

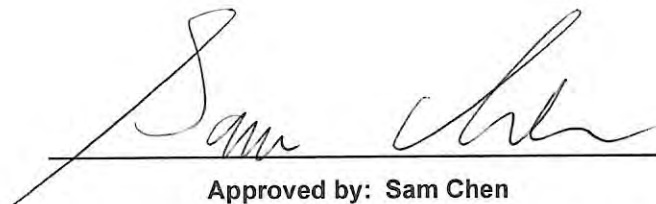


RADIO TEST REPORT

FCC ID : MSQ-RPAX2K00
Equipment : AX3000 Dual-Band WiFi Range Extender
Brand Name : ASUS
Model Name : RP-AX58
Applicant : ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou, Taipei City 112, Taiwan
Manufacturer (1) : SHENZHEN GONGJIN ELECTRONICS CO.,LTD
No. 2 Danzi North Road, Kengzi Street, Pingshan District,
Shenzhen, Guangdong, China
Manufacturer (2) : TONG WEI ELECTRONICS (VIETNAM) COMPANY LIMITED
Block C-04 and part C-05 of Lot CN12, An Duong Industrial
Zone, Hong Phong Commune, An Duong District, Hai
Phong City, Vietnam
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 18, 2022, and testing was started from Jul. 28, 2022 and completed on Nov. 07, 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.)



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



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	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT20-BF	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11n HT40-BF	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	2TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 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 Holder	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	SHENZHEN GONGJIN ELECTRONICS CO., LTD	EmP301e-B-I45(B)	PCB Antenna	I-PEX	Note1
2	2	SHENZHEN GONGJIN ELECTRONICS CO., LTD	EmP301f-B-I45(G)	PCB Antenna	I-PEX	Note1

Note1:

<Antenna Gain>

Ant.	Port	Antenna Gain (dBi)	
		2.4GHz	5GHz
1	1	3	3
2	2	3	3

Note2: The above information was declared by manufacturer.

Note3: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

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

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

Where ;

$$G1 = 10 ; G2 = 10 ;$$

$$2.4G \ G1 = 3 \text{ dBi} ; G2 = 3 \text{ dBi} ; DG = 6.01 \text{ dBi}$$

$$5G \ G1 = 3 \text{ dBi} ; G2 = 3 \text{ dBi} ; DG = 6.01 \text{ dBi}$$



For 2.4GHz function:

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW20	0.977	0.1	1.173m	1k
802.11ax HEW20-BF	0.977	0.1	1.15m	1k
802.11ax HEW40	0.978	0.1	1.213m	1k
802.11ax HEW40-BF	0.978	0.1	1.205m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Internal Power Supply			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	For Non beamforming: Mtool_V3.1.0.6 For beamforming: DOS[ver 6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT Supports Function

Function	Supports type
AP Router	Master
Bridge	Client without radar detection
Repeater	Master
Mesh	Master

Note 1: The AP Router mode was selected to test and recorded in this test report.

Note 2: The above information was declared by manufacturer.



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 D01 v02r01
- ♦ 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	Caster Chang	24.5~24.8 / 56~61	Oct. 05, 2022~ Nov. 07, 2022
Radiated and Radiated (Co-location)(below 1GHz)	03CH05-CB	Gordon Hung	24.3~25.6 / 61~63	Jul. 28, 2022~ Nov. 07, 2022
Radiated (above 1GHz)	03CH01-CB	Gordon Hung	22.1~23.5 / 57~60	Jul. 28, 2022~ Nov. 07, 2022
AC Conduction	CO01-CB	Dean Chang	22~23 / 57~58	Aug. 01, 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

For non-beamforming mode:

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	79
2417MHz	81
2437MHz	95
2457MHz	88
2462MHz	82
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	83
2437MHz	92
2462MHz	83
802.11ax HEW20_Nss2,(MCS0)_2TX	-
2412MHz	79
2417MHz	84
2437MHz	91
2457MHz	85
2462MHz	78
802.11ax HEW40_Nss2,(MCS0)_2TX	-
2422MHz	69
2437MHz	70
2452MHz	69



For beamforming mode:

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	76
2417MHz	85
2437MHz	95
2462MHz	83
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	72
2437MHz	72
2452MHz	71

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.
- ♦ For 2T1S: The EUT supports non-beamforming and beamforming mode, only beamforming mode has been selected to test.

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)

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
For 2.4GHz: The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis from Emissions in Restricted Frequency Bands above 1GHz. So the measurement will follow this same test configuration. For 5GHz The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at X axis from Unwanted Emissions above 1GHz. So the measurement will follow this same test configuration.	
1	EUT at Y axis_WLAN 2.4GHz
2	EUT at X axis_WLAN 5GHz
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. The worst case was found at Z axis for bandedge, Y axis for harmonic, so it was selected to perform test and its test result was written in the report.	
1	EUT at Z axis for bandedge / EUT at Y axis for harmonic



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, and the worst case was found at X axis. So the measurement will follow this same test configuration.	
1	EUT at 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
Refer to Sporton Test Report No.: FA262309 for Co-location RF Exposure Evaluation.	



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by WLAN AP and transmit duty cycle no less than 98%.

For Normal Link Mode:

During the test, the EUT operation to normal function.



2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	2.4G NB	DELL	E6430	N/A
C	5G NB	DELL	E6430	N/A

For Radiated (below 1GHz) and (Above 1GHz / non-beamforming mode):

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

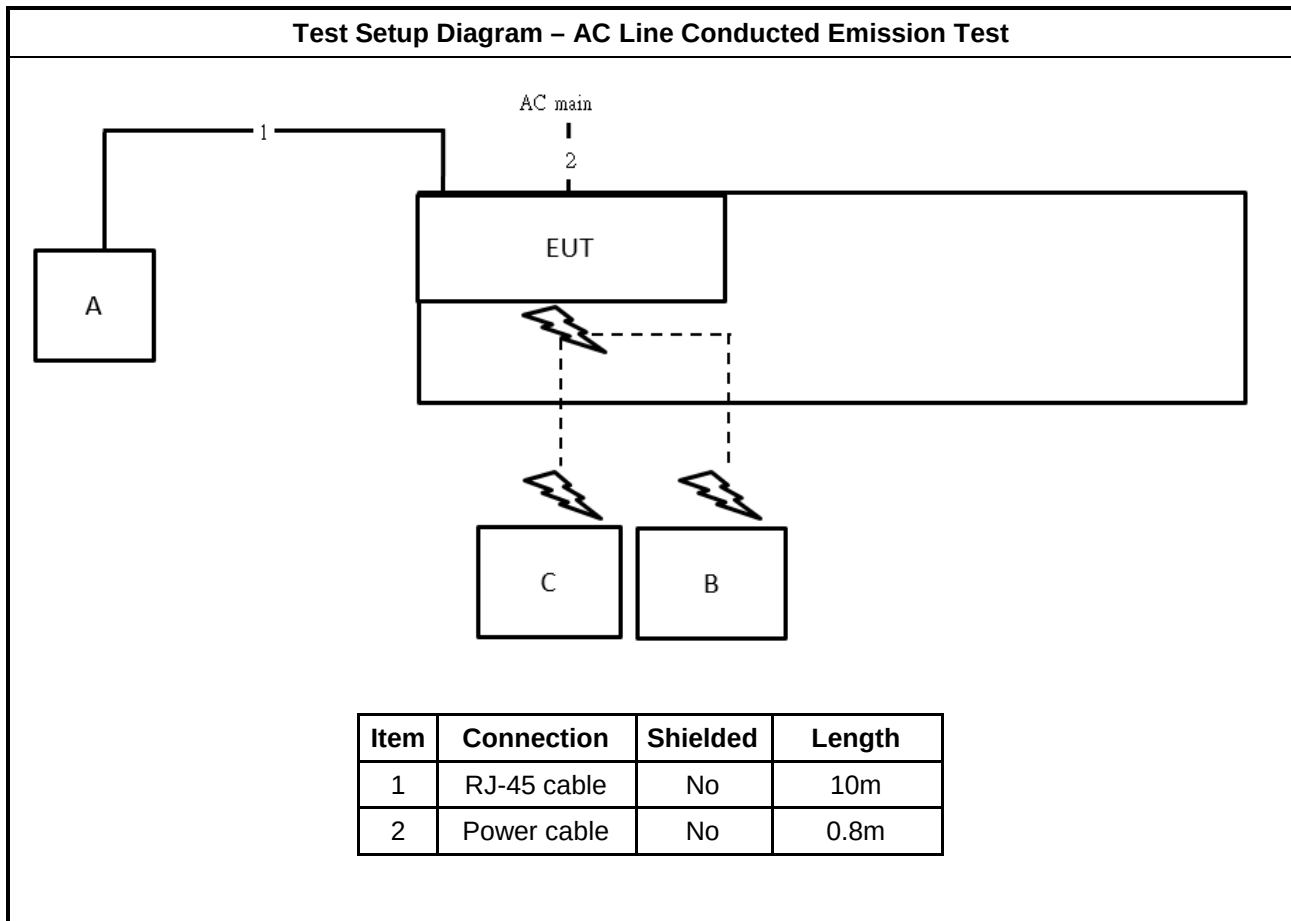
For Radiated (above 1GHz / beamforming mode):

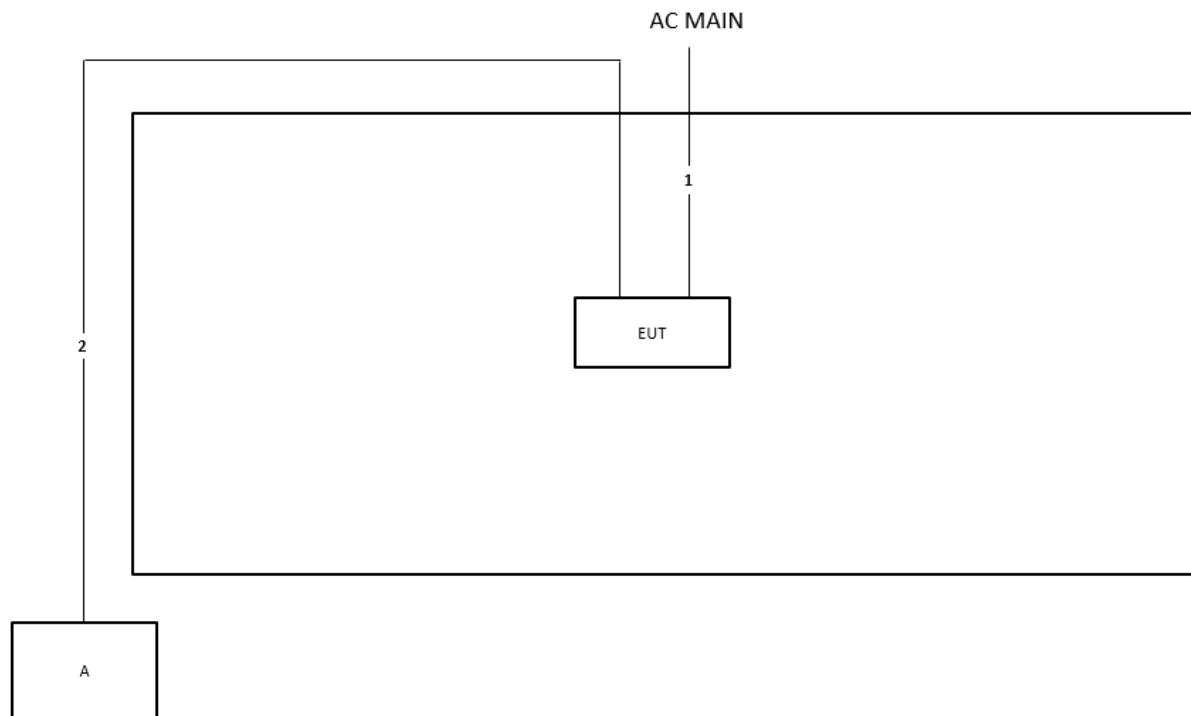
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	WLAN AP	ASUS	RT-AX88U	MSQ-RTAXHP00
C	Notebook	DELL	E4300	N/A

For RF Conducted:

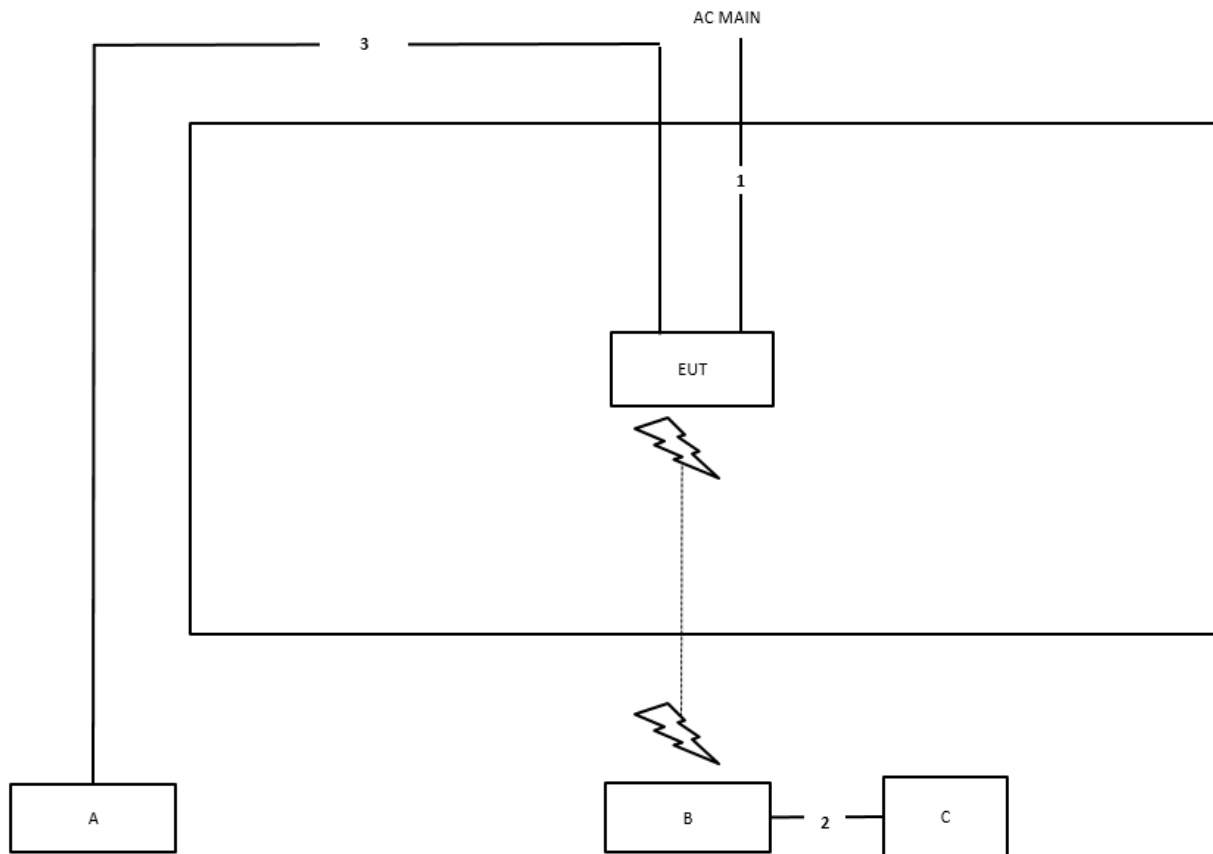
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Radiated Test < 1GHz and Radiated Test > 1GHz (non-beamforming mode)


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

Radiated Test > 1GHz (beamforming mode)


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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

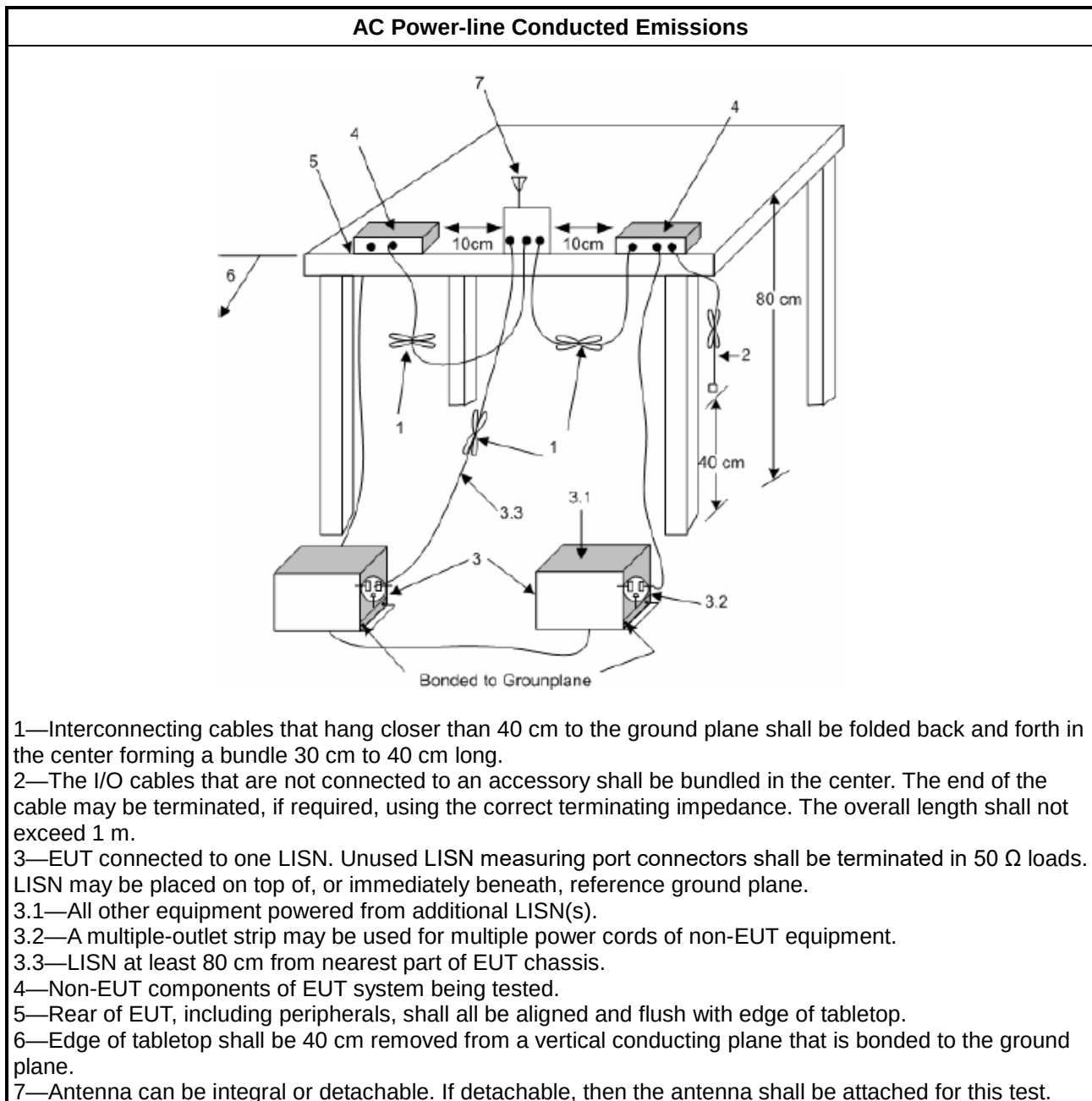
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

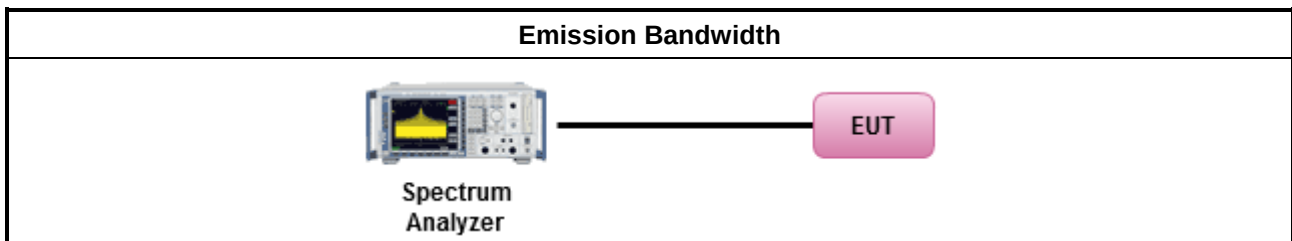
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

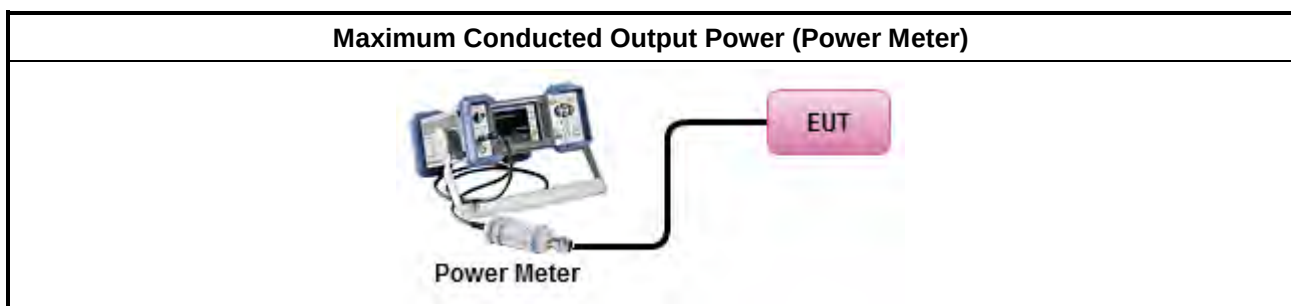
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup





3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

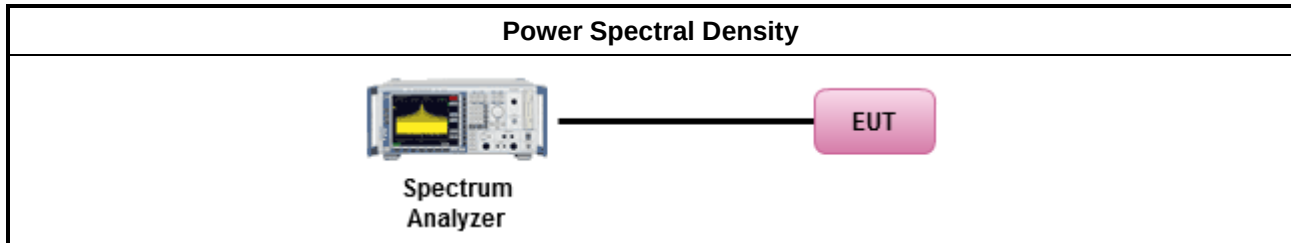
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

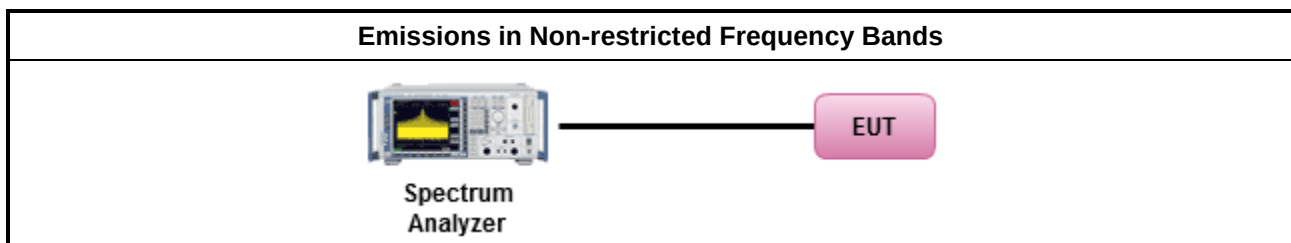
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

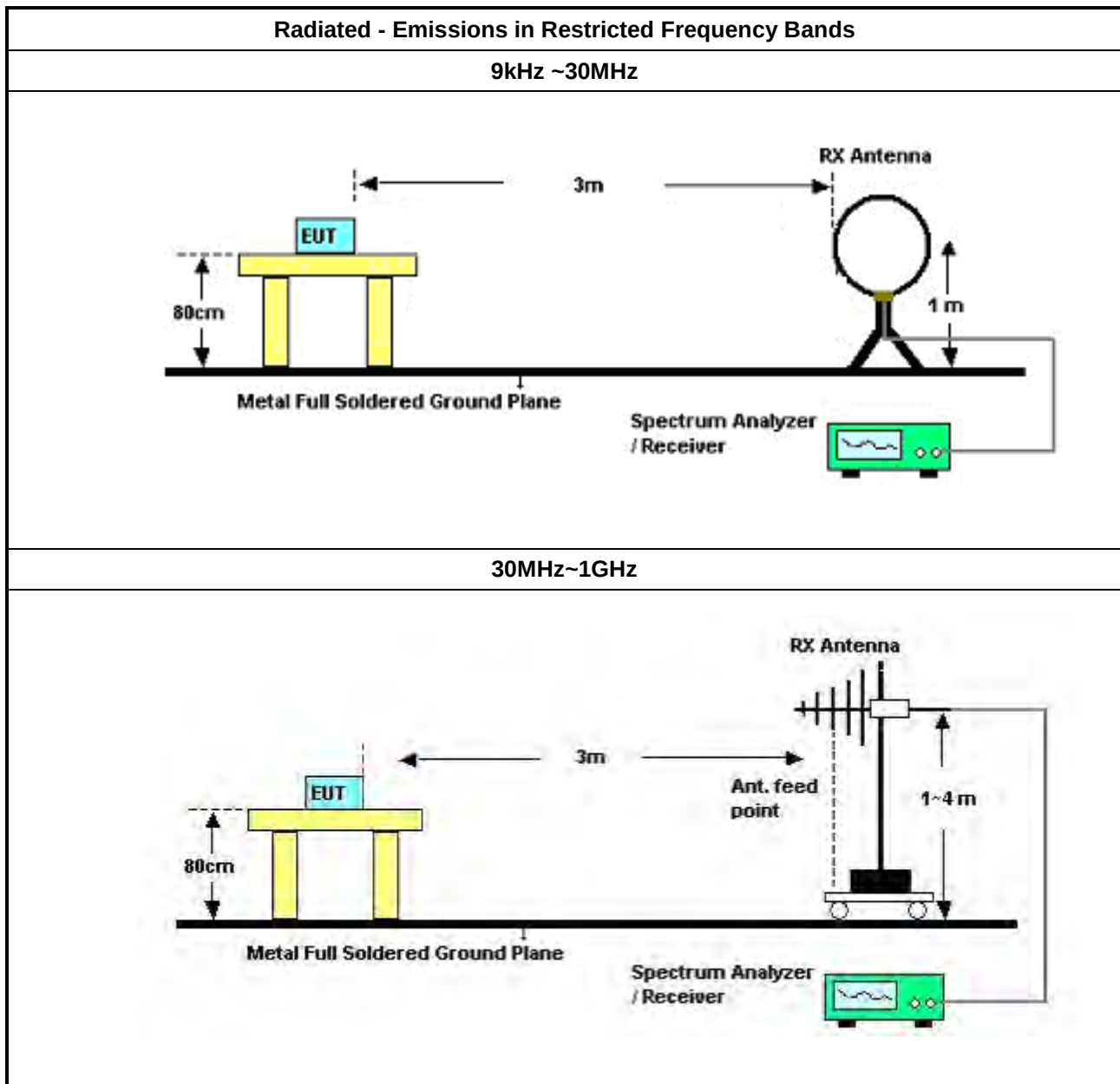
Refer a test equipment and calibration data table in this test report.

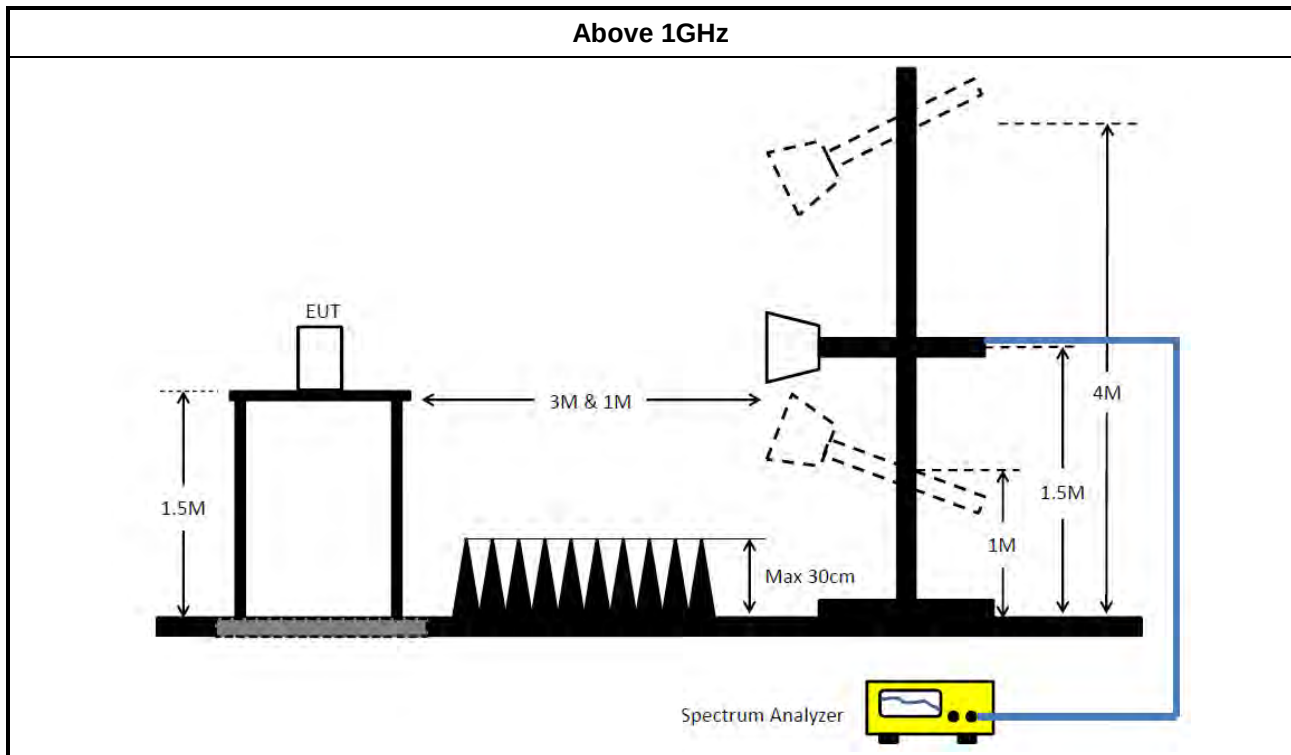


3.6.3 Test Procedures

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

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 18, 2022	May 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 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)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 06, 2022	Nov. 05, 2023	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	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	BBHA91705 07	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	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 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)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 03, 2022	Oct. 02, 2023	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-28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
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	SCHWARZBEAK	BBHA9170	BBHA91702 52	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA91705 07	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	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. 20, 2022	Jul. 19, 2023	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	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	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)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-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 (03CH01-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2022	May 26, 2023	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz ~26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz ~26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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



Conducted Emissions at Powerline

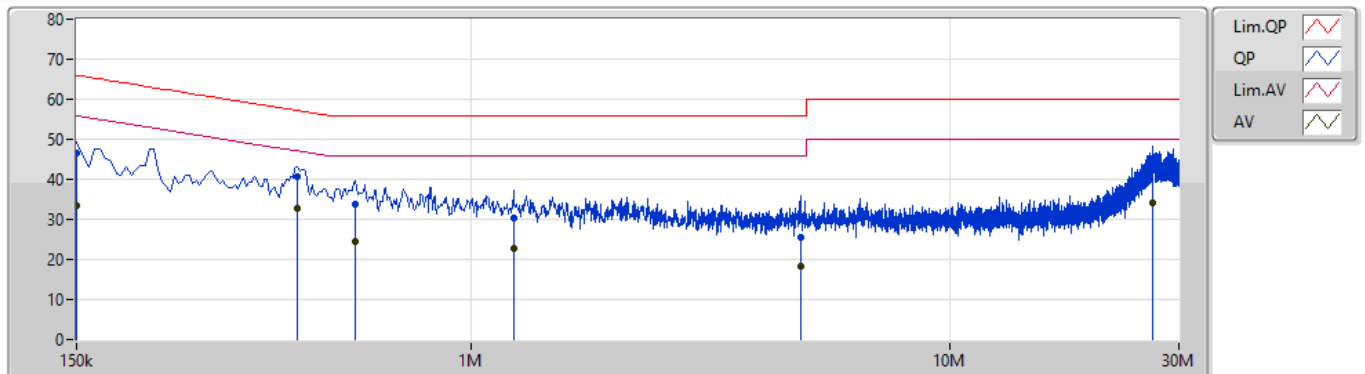
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	451.5k	39.73	46.84	-7.11	Neutral

Mode 1

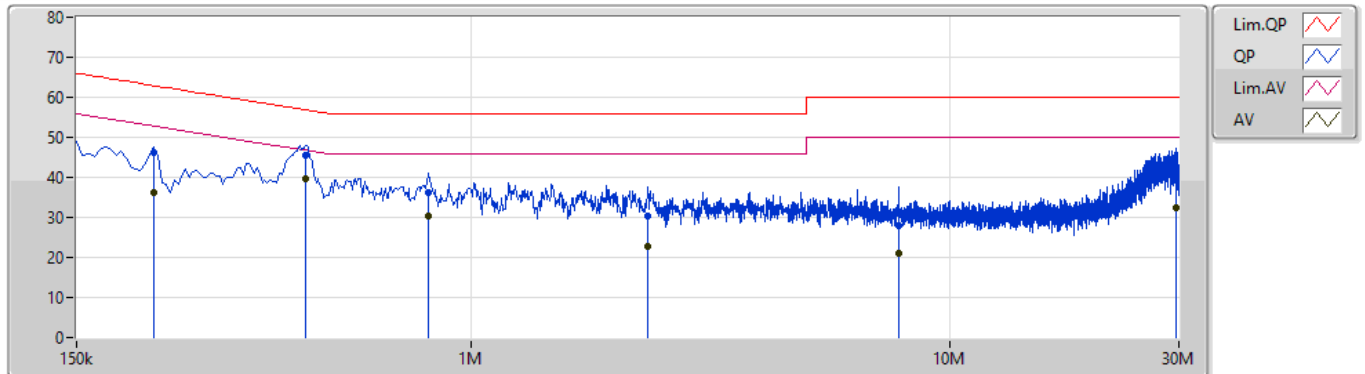
01/08/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	46.65	66.00	-19.35	9.99	Line	-	36.66	0.06	0.04	9.89			
AV	150k	33.42	56.00	-22.58	9.99	Line	-	23.43	0.06	0.04	9.89			
QP	433.5k	40.64	57.19	-16.55	10.01	Line	-	30.63	0.06	0.06	9.89			
AV	433.5k	32.82	47.19	-14.37	10.01	Line	"Worst"	22.81	0.06	0.06	9.89			
QP	573k	33.73	56.00	-22.27	10.00	Line	-	23.73	0.06	0.05	9.89			
AV	573k	24.64	46.00	-21.36	10.00	Line	-	14.64	0.06	0.05	9.89			
QP	1.226M	30.43	56.00	-25.57	10.02	Line	-	20.41	0.08	0.05	9.89			
AV	1.226M	22.90	46.00	-23.10	10.02	Line	-	12.88	0.08	0.05	9.89			
QP	4.866M	25.60	56.00	-30.40	10.14	Line	-	15.46	0.14	0.11	9.89			
AV	4.866M	18.24	46.00	-27.76	10.14	Line	-	8.10	0.14	0.11	9.89			
QP	26.43M	42.69	60.00	-17.31	10.66	Line	-	32.03	0.37	0.30	9.99			
AV	26.43M	34.25	50.00	-15.75	10.66	Line	-	23.59	0.37	0.30	9.99			

Mode 1

01/08/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	217.5k	46.14	62.92	-16.78	10.00	Neutral	-	36.14	0.07	0.04	9.89			
AV	217.5k	36.09	52.92	-16.83	10.00	Neutral	-	26.09	0.07	0.04	9.89			
QP	451.5k	45.53	56.84	-11.31	10.02	Neutral	-	35.51	0.07	0.06	9.89			
AV	451.5k	39.73	46.84	-7.11	10.02	Neutral	"Worst"	29.71	0.07	0.06	9.89			
QP	811.5k	36.27	56.00	-19.73	10.01	Neutral	-	26.26	0.08	0.04	9.89			
AV	811.5k	30.45	46.00	-15.55	10.01	Neutral	-	20.44	0.08	0.04	9.89			
QP	2.342M	30.50	56.00	-25.50	10.09	Neutral	-	20.41	0.11	0.09	9.89			
AV	2.342M	22.85	46.00	-23.15	10.09	Neutral	-	12.76	0.11	0.09	9.89			
QP	7.8M	27.88	60.00	-32.12	10.25	Neutral	-	17.63	0.21	0.14	9.90			
AV	7.8M	21.09	50.00	-28.91	10.25	Neutral	-	10.84	0.21	0.14	9.90			
QP	29.607M	41.76	60.00	-18.24	10.67	Neutral	-	31.09	0.31	0.34	10.02			
AV	29.607M	32.49	50.00	-17.51	10.67	Neutral	-	21.82	0.31	0.34	10.02			

For non-beamforming mode:

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	7.05M	12.919M	12M9G1D	6.5M	10.295M
802.11g_Nss1,(6Mbps)_2TX	16.325M	17.391M	17M4D1D	16.3M	16.817M
802.11ax HEW20_Nss2,(MCS0)_2TX	18.825M	19.065M	19M1D1D	15.05M	18.841M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.6M	37.931M	37M9D1D	36.45M	37.631M

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

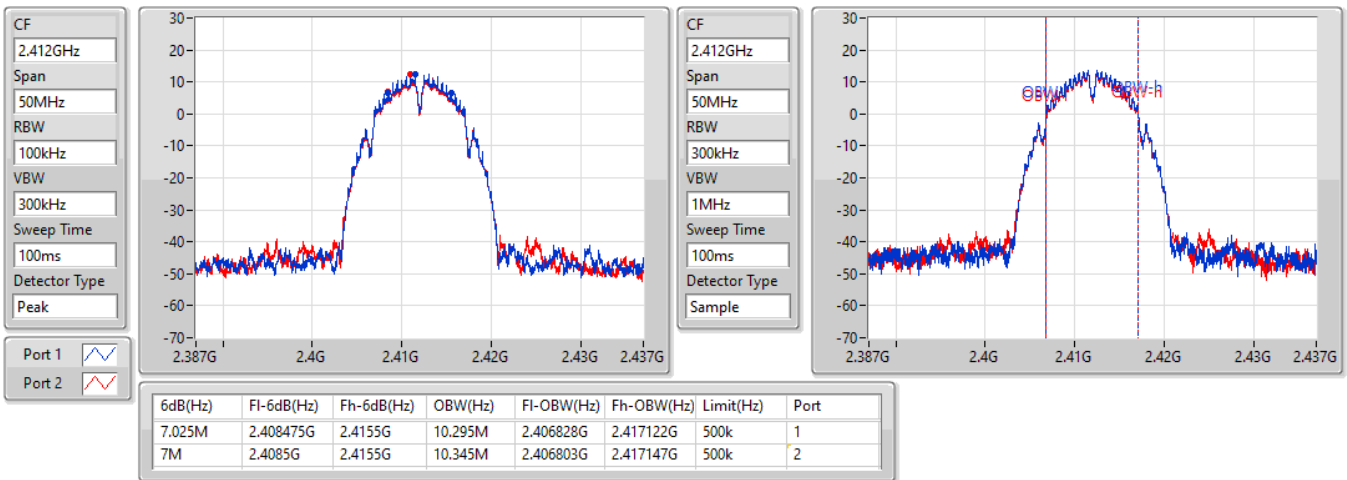
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.025M	10.295M	7M	10.345M
2437MHz	Pass	500k	6.5M	12.669M	7.05M	12.919M
2462MHz	Pass	500k	7.025M	10.445M	7.025M	10.37M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.3M	16.817M	16.3M	16.892M
2437MHz	Pass	500k	16.325M	16.967M	16.325M	17.391M
2462MHz	Pass	500k	16.3M	16.917M	16.3M	17.016M
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.075M	18.841M	15.05M	18.866M
2437MHz	Pass	500k	18.175M	19.04M	18.475M	19.065M
2462MHz	Pass	500k	18.35M	19.065M	18.825M	19.015M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.6M	37.831M	36.45M	37.731M
2437MHz	Pass	500k	37.6M	37.731M	36.45M	37.631M
2452MHz	Pass	500k	37.6M	37.931M	36.5M	37.881M

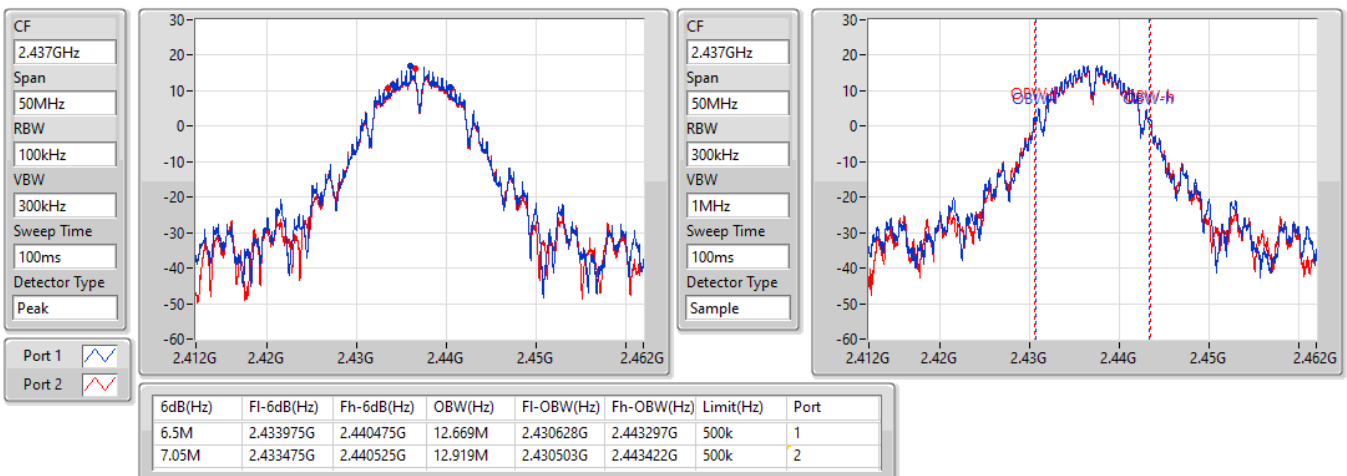
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

05/10/2022


802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

05/10/2022

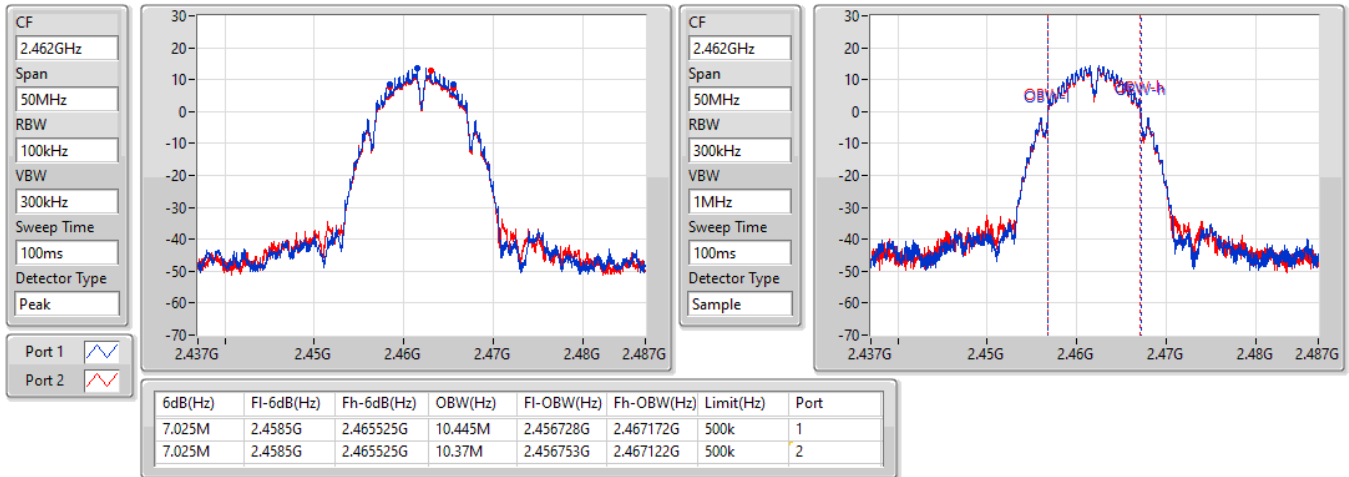


802.11b_Nss1,(1Mbps)_2TX

EBW

2462MHz

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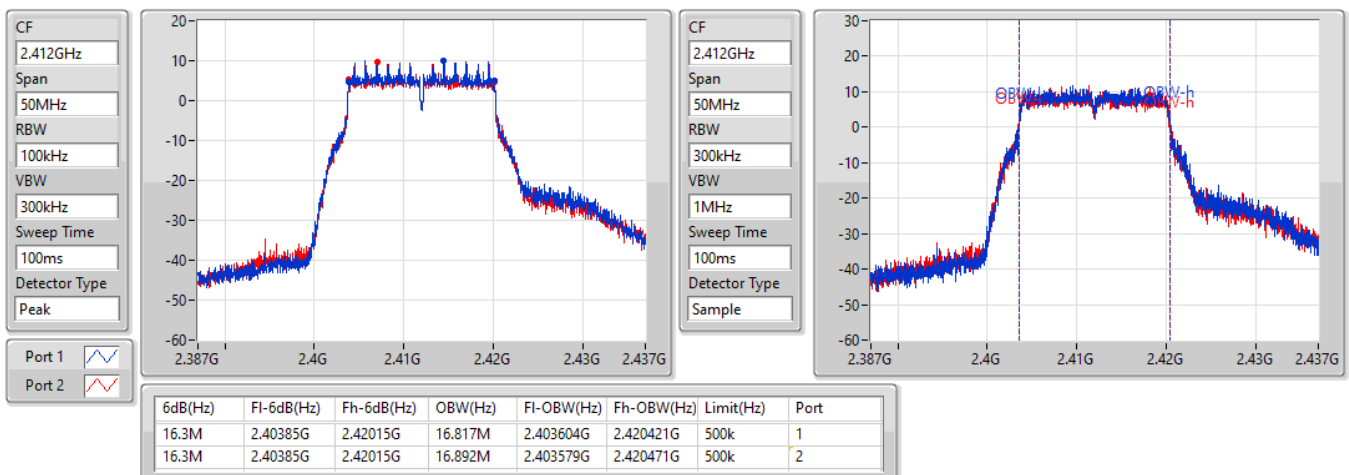


802.11g_Nss1,(6Mbps)_2TX

EBW

2412MHz

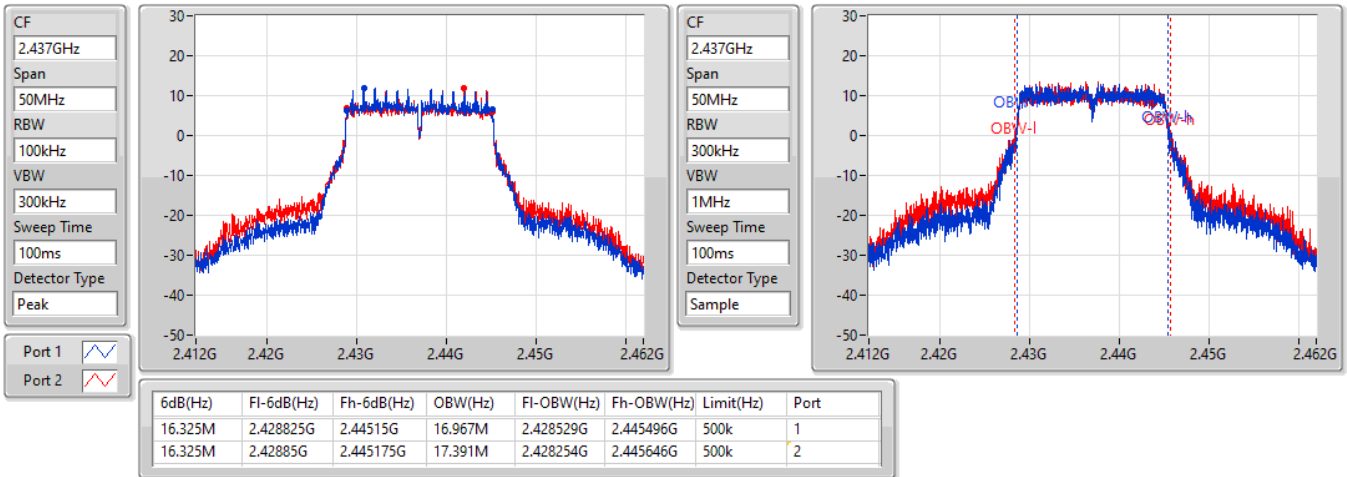
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802.11g_Nss1,(6Mbps)_2TX

2437MHz

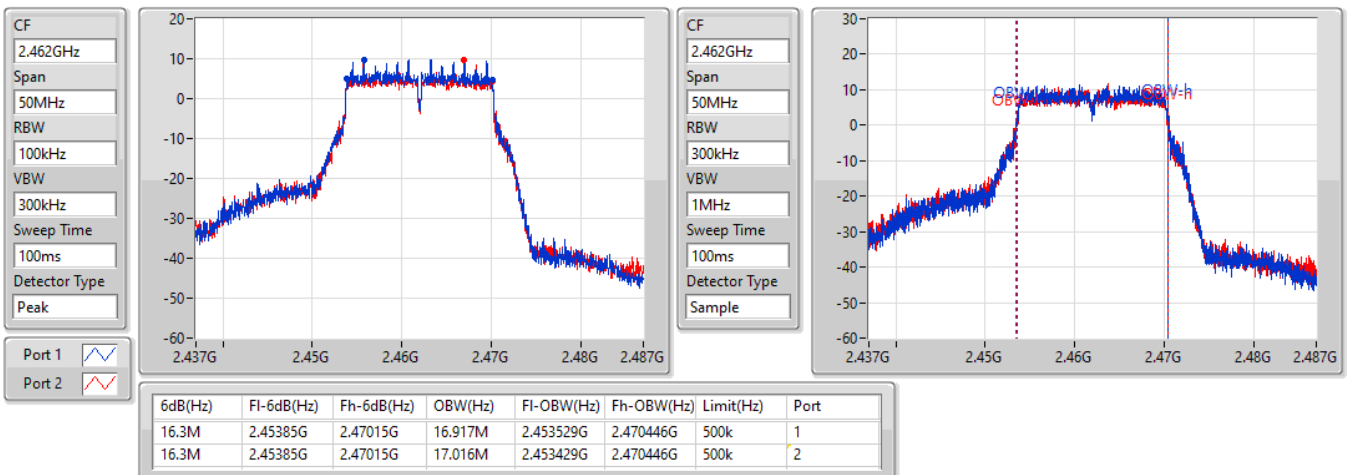
05/10/2022



802.11g_Nss1,(6Mbps)_2TX

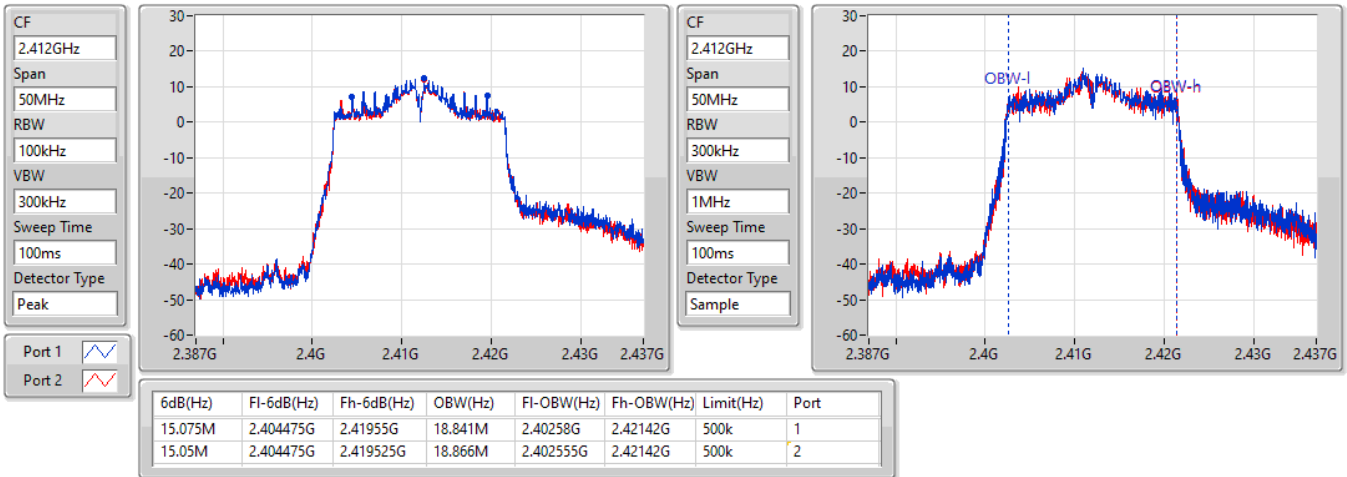
2462MHz

05/10/2022

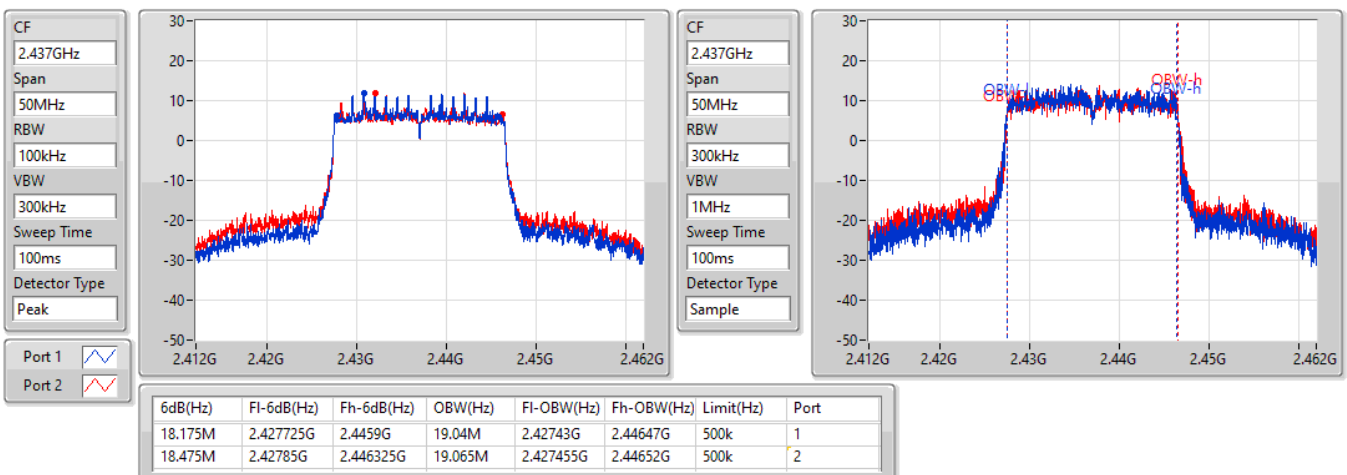


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
2412MHz

05/10/2022

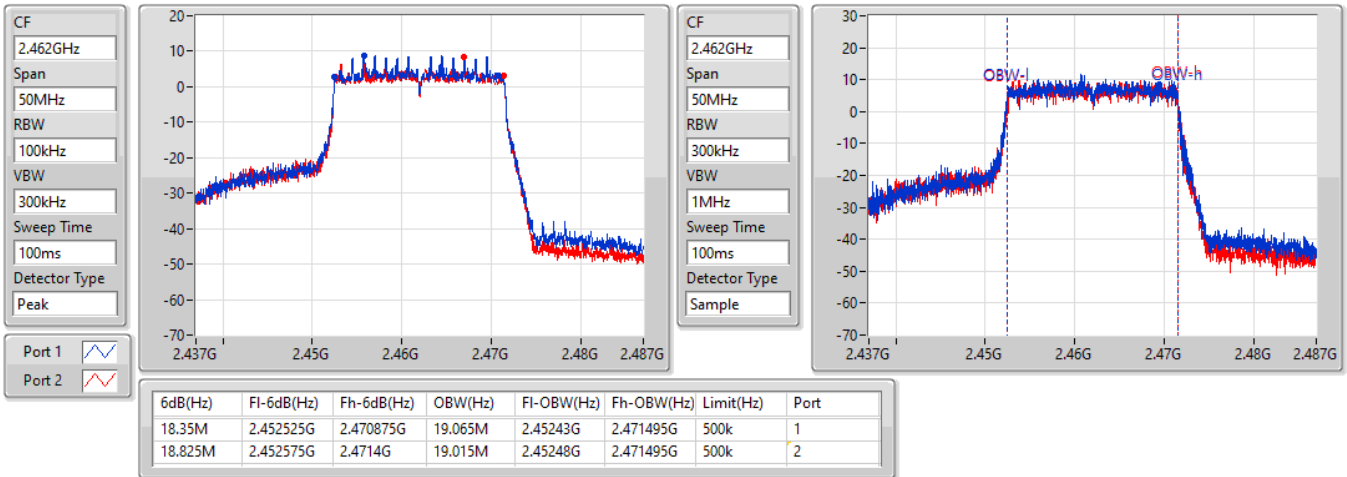

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
2437MHz

05/10/2022

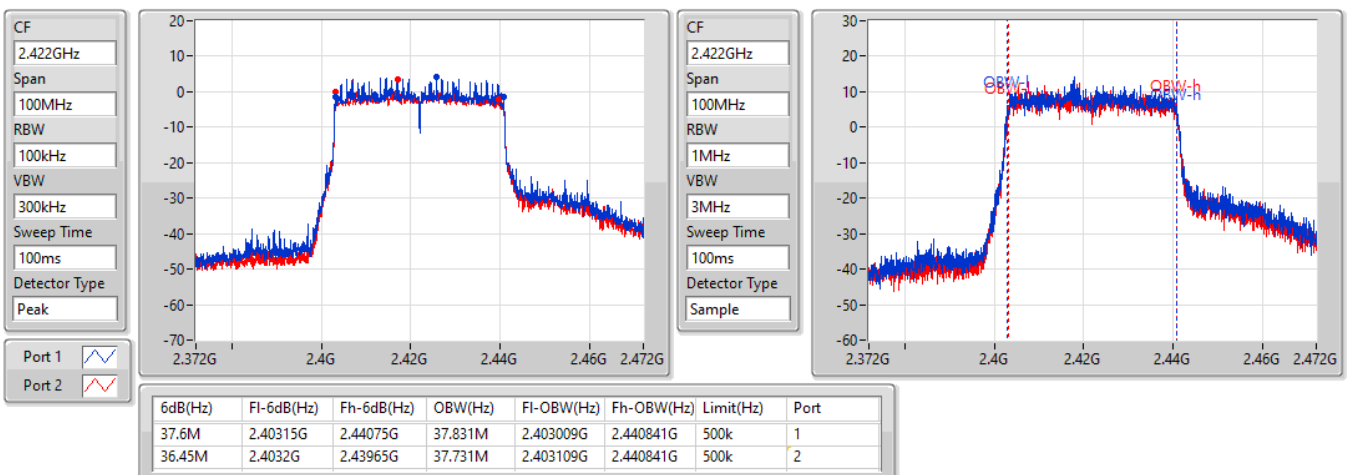


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
2462MHz

05/10/2022

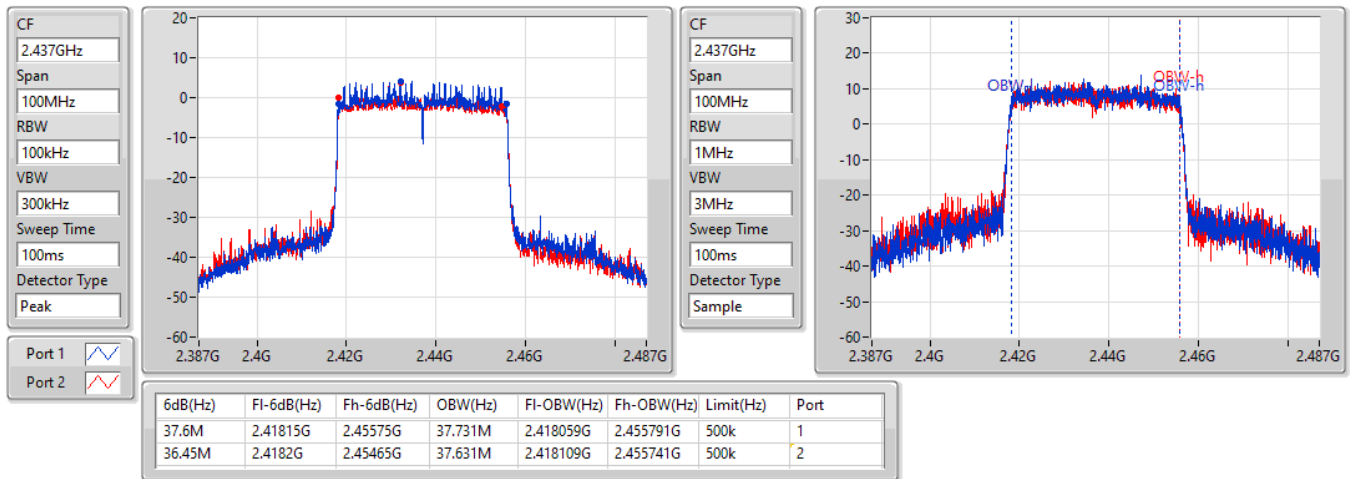

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
2422MHz

05/10/2022

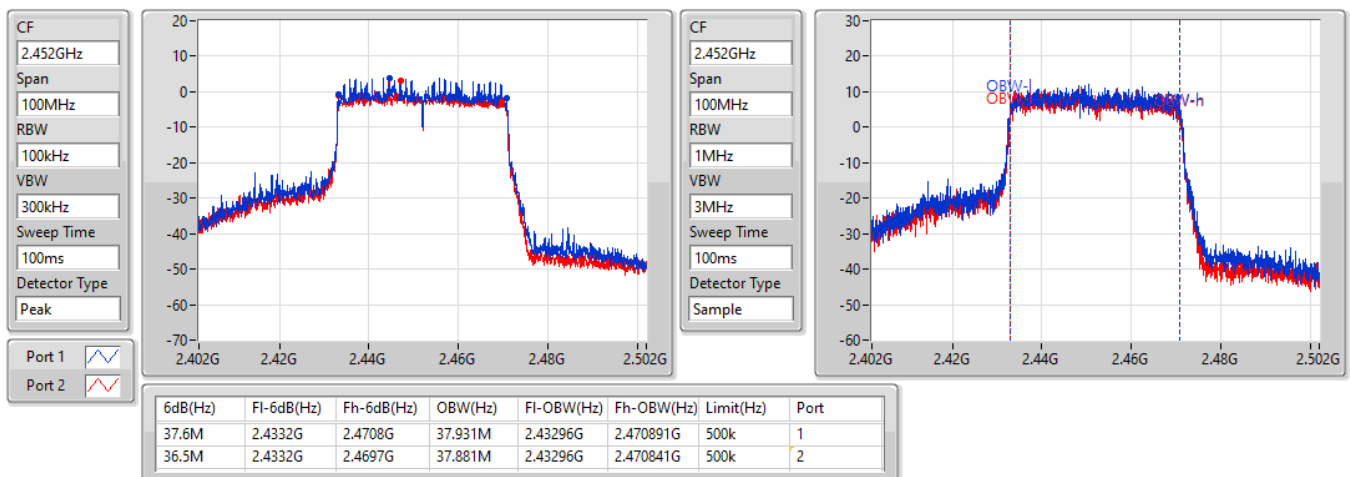


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
2437MHz

05/10/2022


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
2452MHz

05/10/2022



For beamforming mode:

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.95M	19.315M	19M3D1D	18.3M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.35M	37.931M	37M9D1D	36.55M	37.613M

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

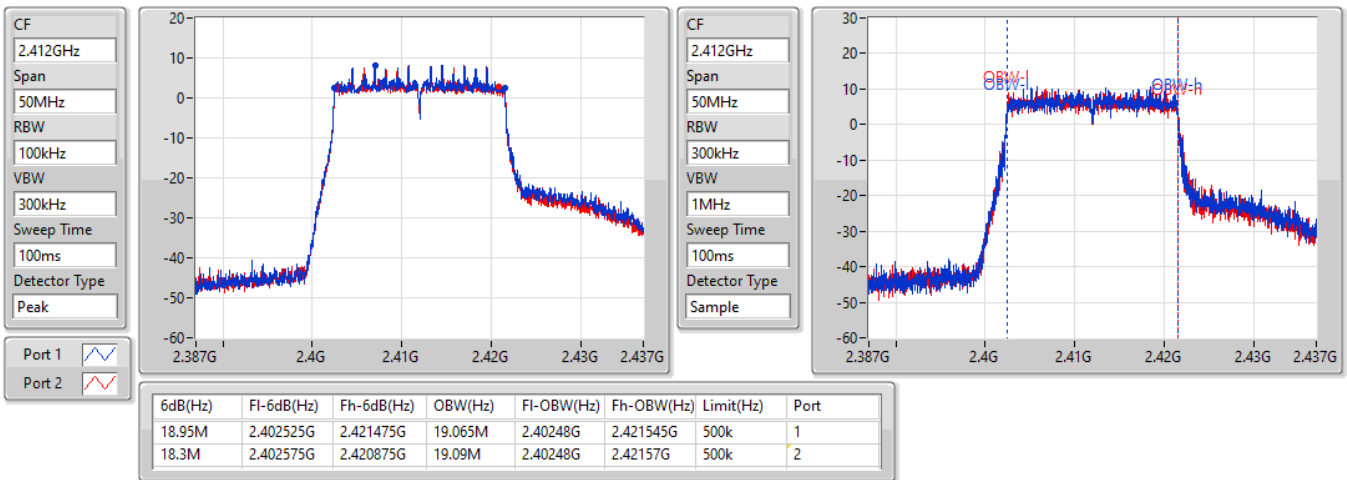
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.95M	19.065M	18.3M	19.09M
2437MHz	Pass	500k	18.875M	19.215M	18.375M	19.315M
2462MHz	Pass	500k	18.8M	19.04M	18.9M	19.09M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.05M	37.831M	37.2M	37.881M
2437MHz	Pass	500k	37.2M	37.662M	36.55M	37.613M
2452MHz	Pass	500k	37.35M	37.931M	37.05M	37.931M

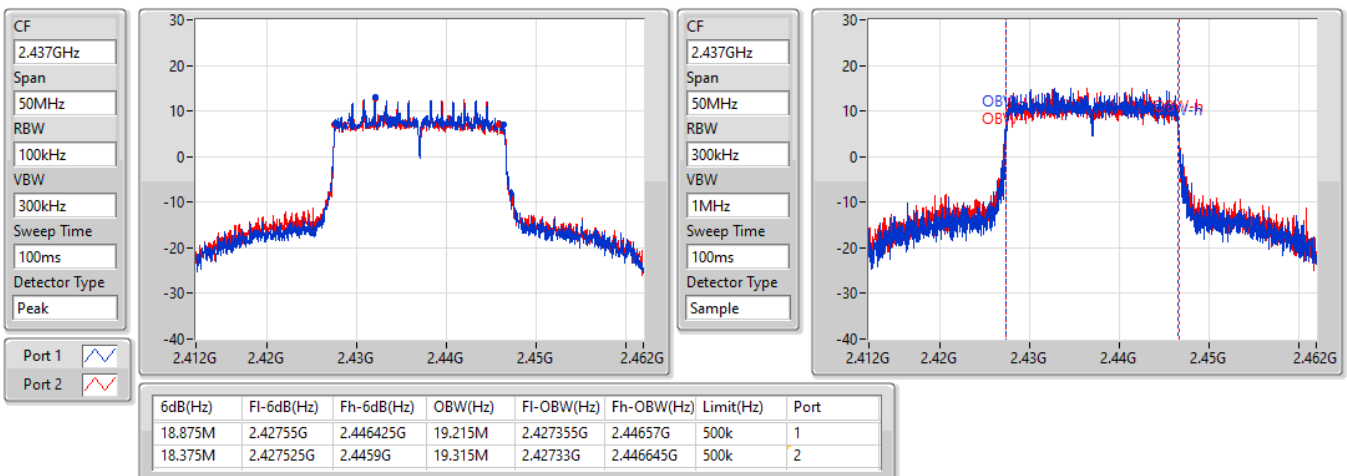
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2412MHz

05/10/2022

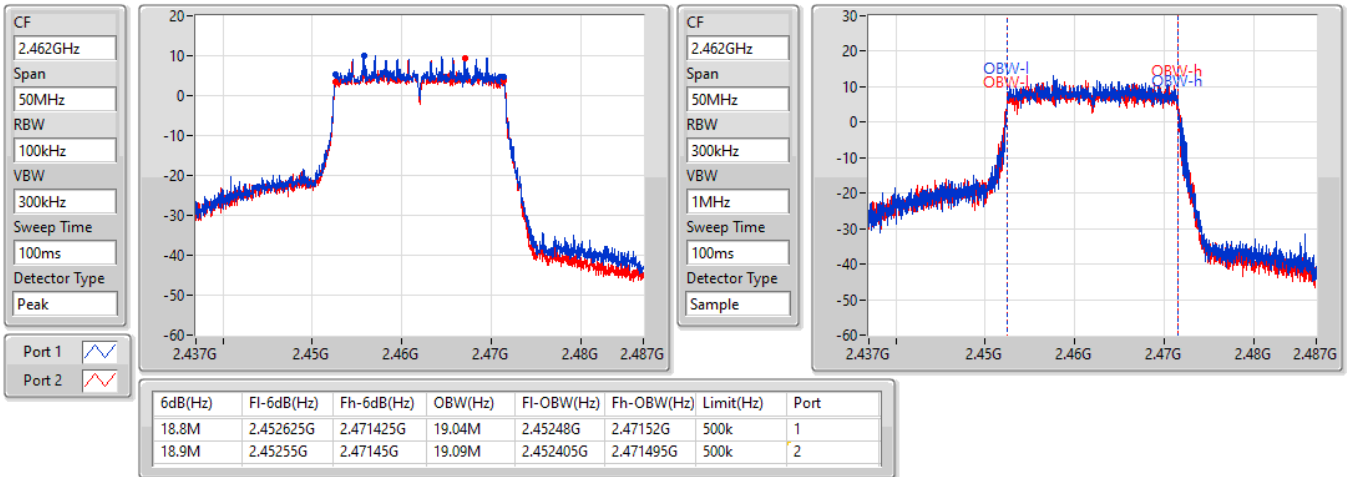

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

05/10/2022

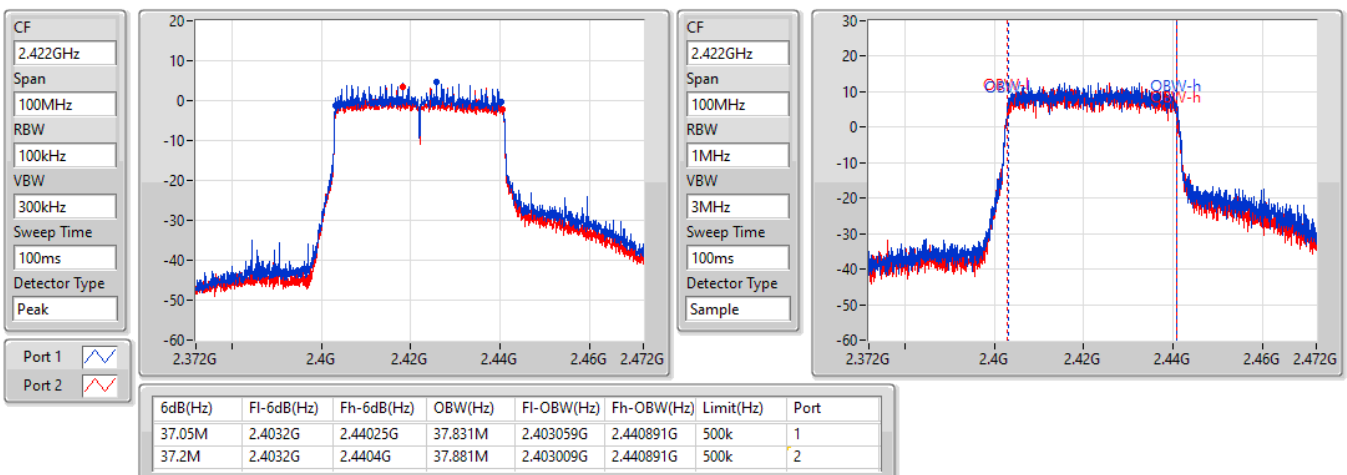


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2462MHz

05/10/2022


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
2422MHz

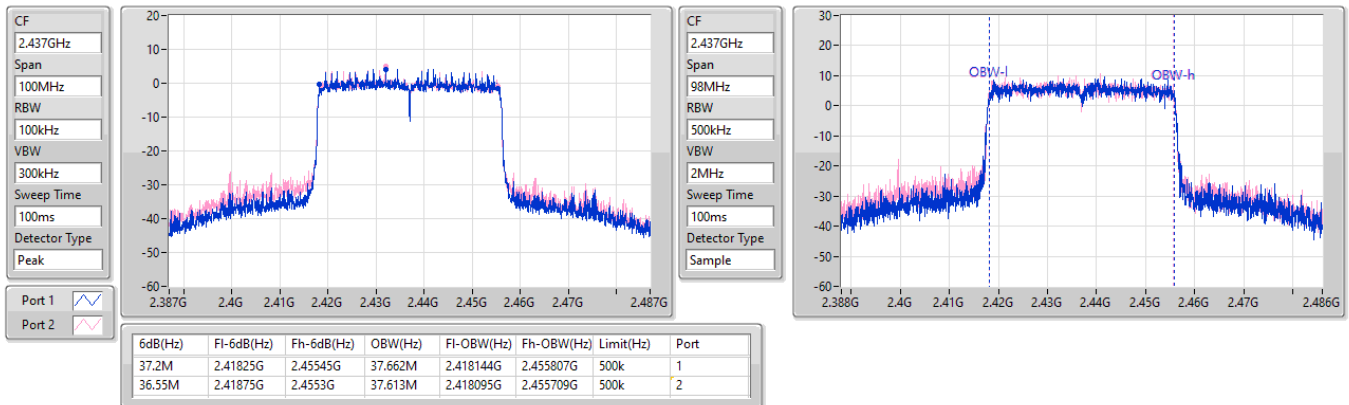
05/10/2022



2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX 2437MHz

EBW

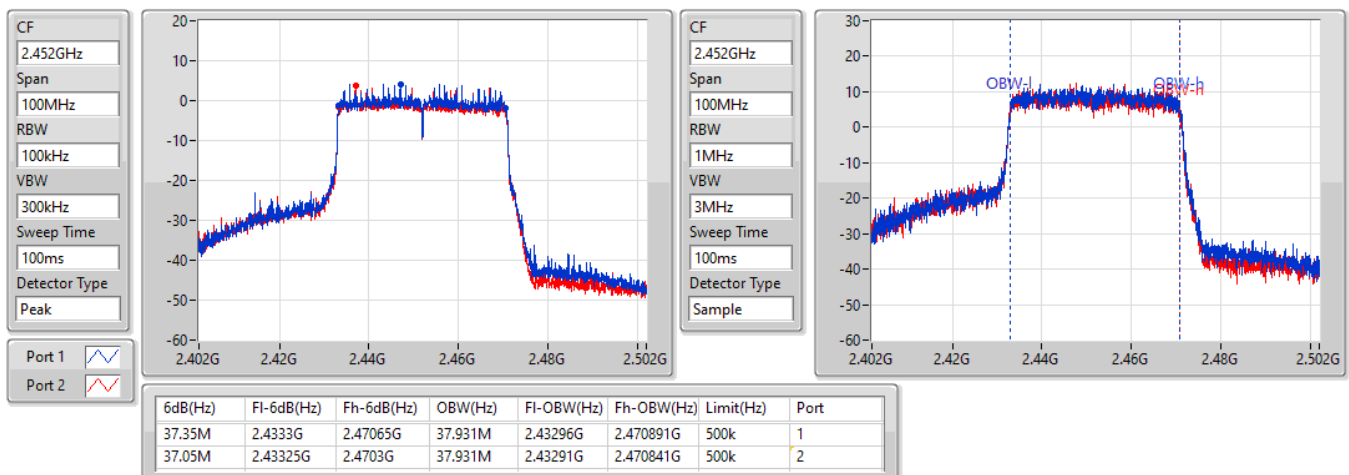
28/10/2022



802.11ax HEW40-BF_Nss1,(MCS0)_2TX 2452MHz

EBW

05/10/2022





Average Power

Appendix C.1

For non-beamforming mode:

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	27.30	0.53703
802.11g_Nss1,(6Mbps)_2TX	25.61	0.36392
802.11ax HEW20_Nss2,(MCS0)_2TX	25.34	0.34198
802.11ax HEW40_Nss2,(MCS0)_2TX	21.04	0.12706

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.00	20.70	20.08	23.41	30.00
2417MHz	Pass	3.00	21.25	20.81	24.05	30.00
2437MHz	Pass	3.00	24.53	24.03	27.30	30.00
2457MHz	Pass	3.00	22.89	22.32	25.62	30.00
2462MHz	Pass	3.00	21.35	20.96	24.17	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.00	20.74	20.38	23.57	30.00
2437MHz	Pass	3.00	22.80	22.40	25.61	30.00
2462MHz	Pass	3.00	20.87	20.21	23.56	30.00
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.00	20.03	19.70	22.88	30.00
2417MHz	Pass	3.00	20.84	20.57	23.72	30.00
2437MHz	Pass	3.00	22.47	22.19	25.34	30.00
2457MHz	Pass	3.00	21.03	20.90	23.98	30.00
2462MHz	Pass	3.00	19.55	18.95	22.27	30.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.00	17.64	17.11	20.39	30.00
2437MHz	Pass	3.00	18.27	17.77	21.04	30.00
2452MHz	Pass	3.00	17.60	16.91	20.28	30.00

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



Average Power

Appendix C.2

For beamforming mode:

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	26.53	0.44978
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	21.63	0.14555



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.01	19.30	18.83	22.08	29.99
2417MHz	Pass	6.01	21.12	20.92	24.03	29.99
2437MHz	Pass	6.01	23.65	23.38	26.53	29.99
2462MHz	Pass	6.01	20.72	20.46	23.60	29.99
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.01	18.60	17.92	21.28	29.99
2437MHz	Pass	6.01	18.67	18.56	21.63	29.99
2452MHz	Pass	6.01	18.41	17.66	21.06	29.99

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

For non-beamforming mode:

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	3.11
802.11g_Nss1,(6Mbps)_2TX	-0.31
802.11ax HEW20_Nss2,(MCS0)_2TX	-0.57
802.11ax HEW40_Nss2,(MCS0)_2TX	-9.00

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.01	-2.39	-2.29	-0.45	7.99
2437MHz	Pass	6.01	1.45	1.24	3.11	7.99
2462MHz	Pass	6.01	-0.59	-1.80	1.84	7.99
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.01	-4.87	-5.90	-2.51	7.99
2437MHz	Pass	6.01	-2.76	-3.24	-0.31	7.99
2462MHz	Pass	6.01	-5.10	-5.82	-2.64	7.99
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.00	-3.23	-3.90	-0.57	8.00
2437MHz	Pass	3.00	-4.26	-4.08	-2.47	8.00
2462MHz	Pass	3.00	-7.34	-7.97	-5.23	8.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.00	-10.94	-11.76	-9.00	8.00
2437MHz	Pass	3.00	-10.64	-11.55	-9.04	8.00
2452MHz	Pass	3.00	-11.50	-11.85	-10.07	8.00

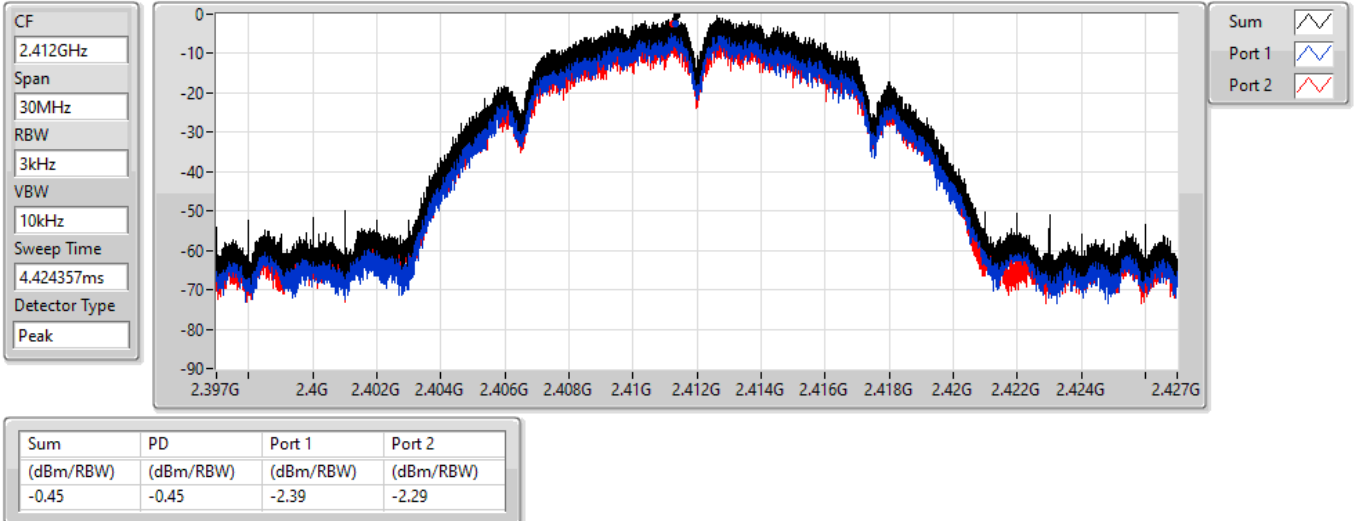
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

05/10/2022

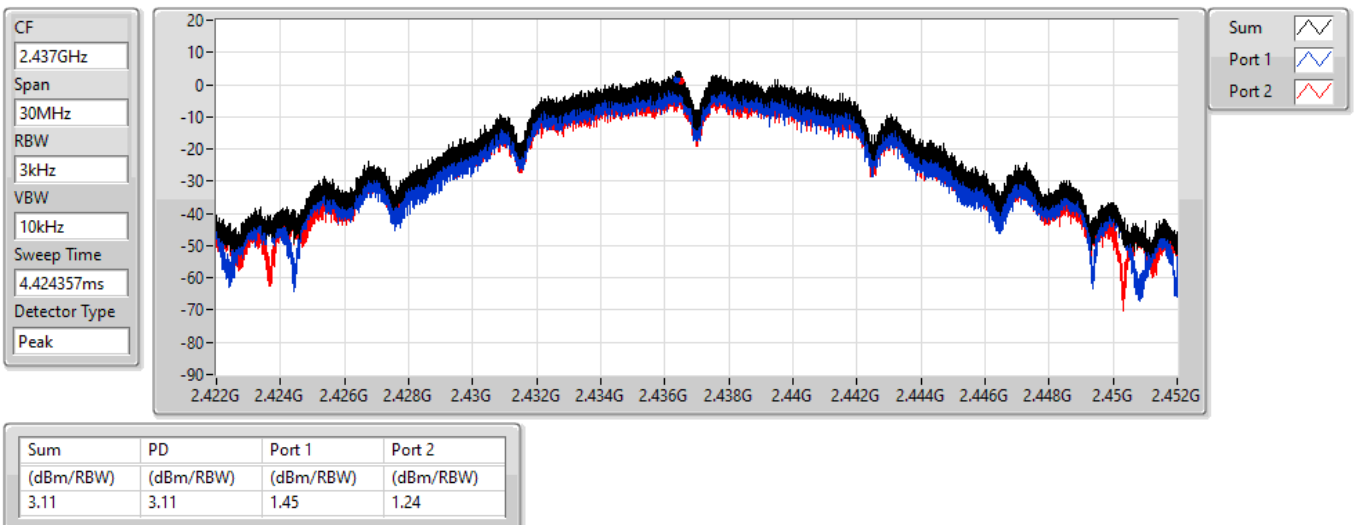


802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

05/10/2022

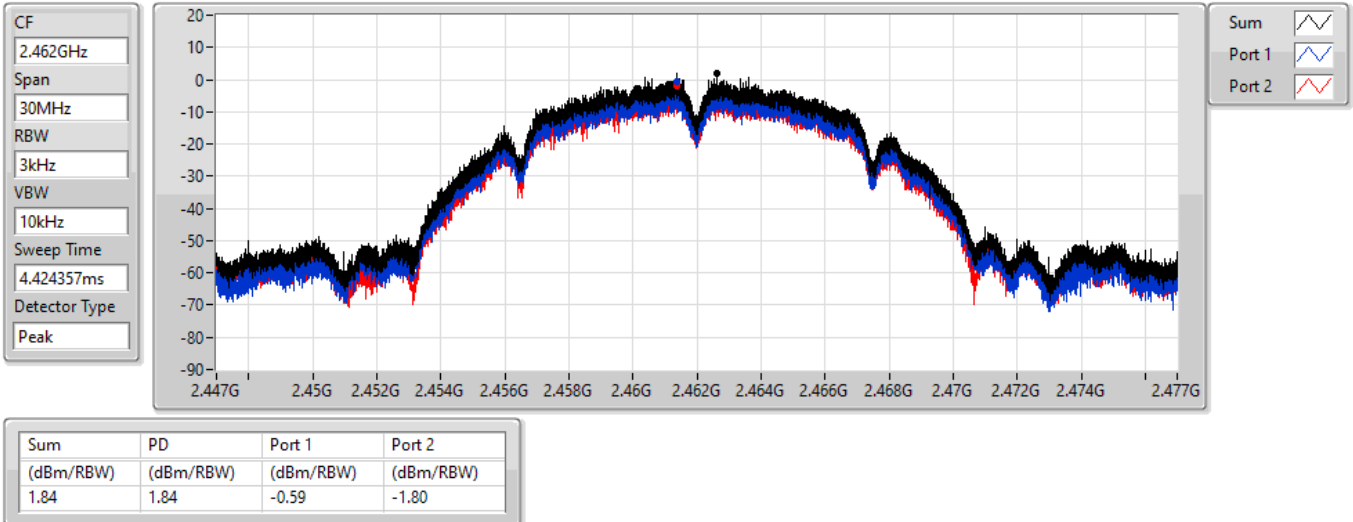


802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

05/10/2022

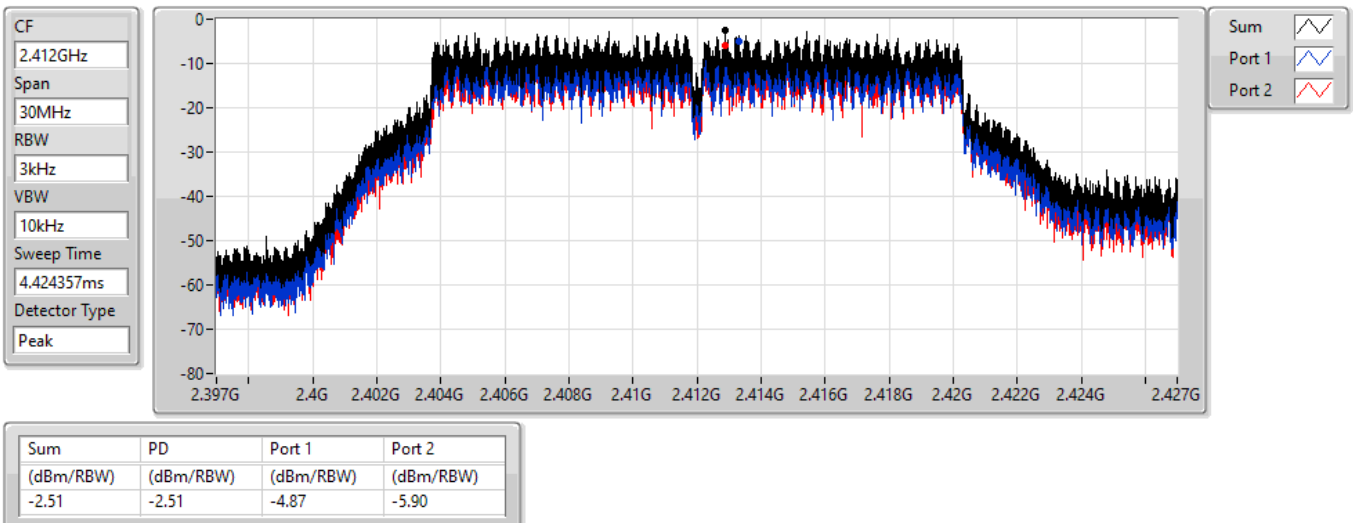


802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

05/10/2022

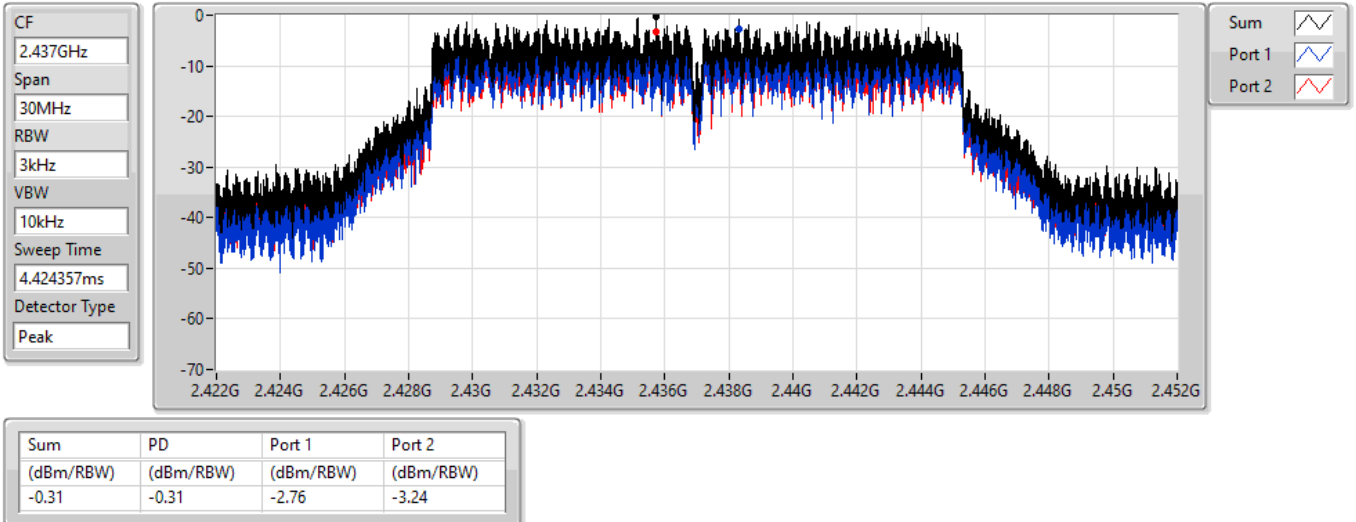


802.11g_Nss1,(6Mbps)_2TX

2437MHz

PSD

05/10/2022

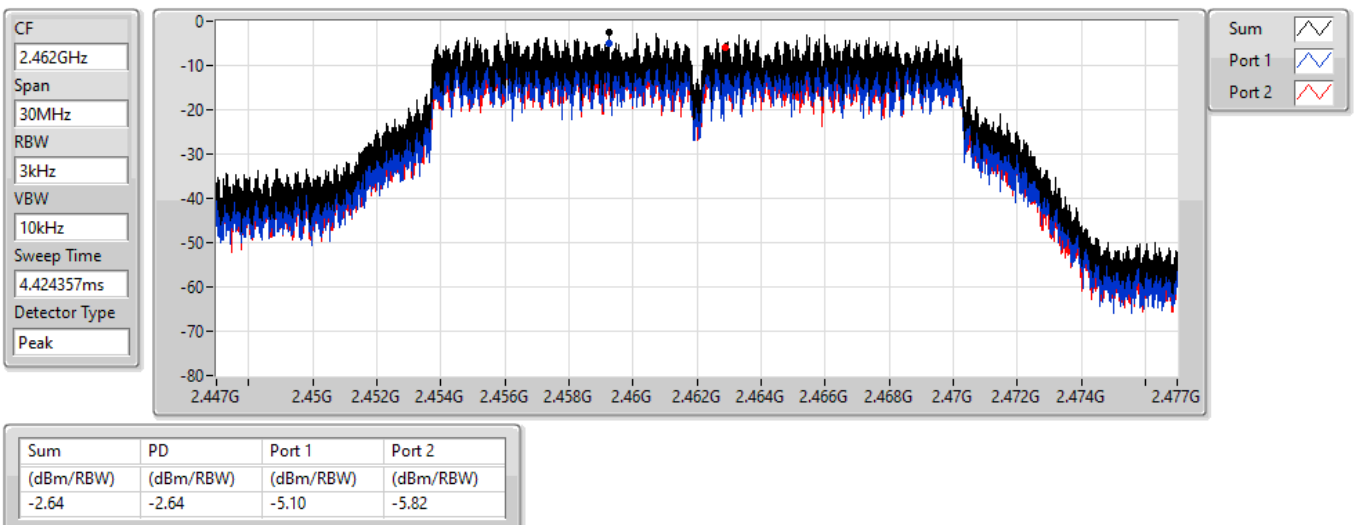


802.11g_Nss1,(6Mbps)_2TX

2462MHz

PSD

05/10/2022

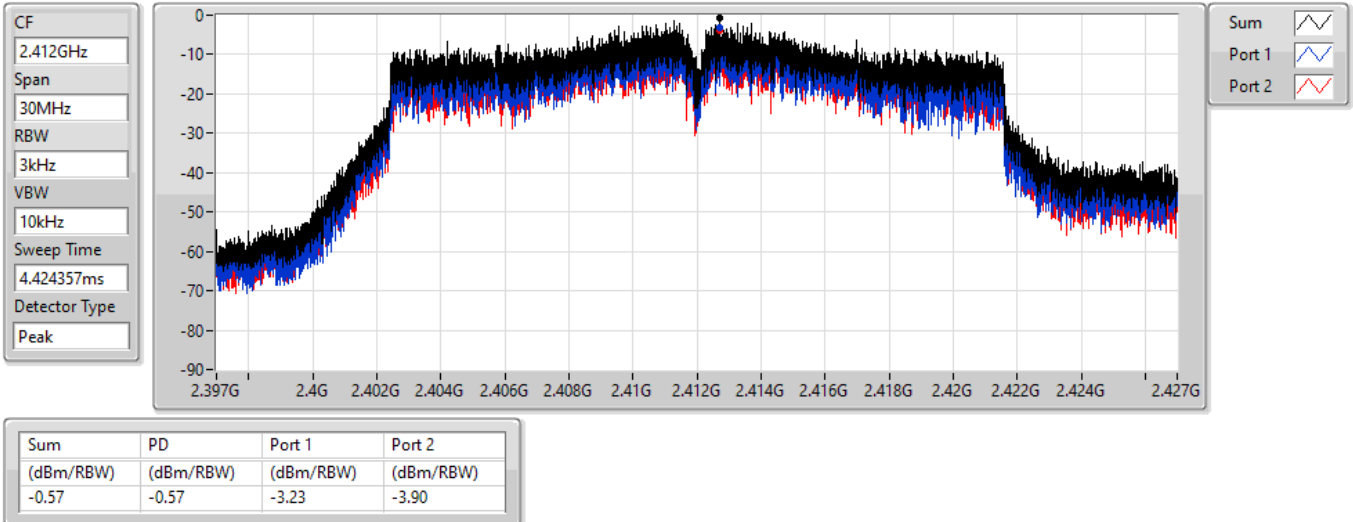


802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

2412MHz

05/10/2022

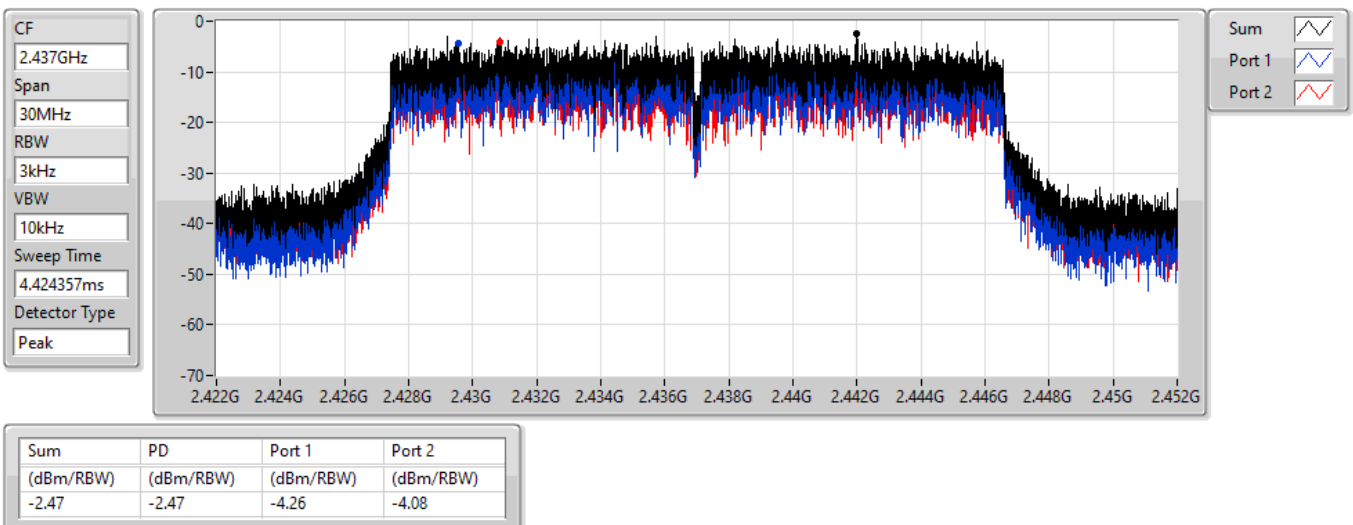


802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

2437MHz

05/10/2022

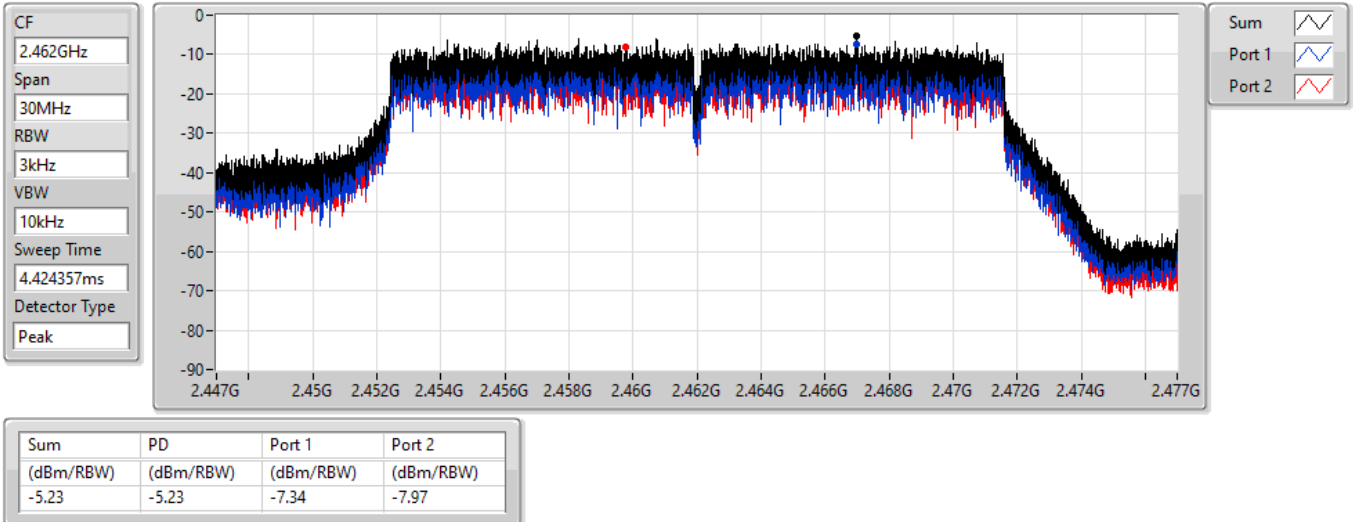


802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

2462MHz

05/10/2022



802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

2422MHz

05/10/2022

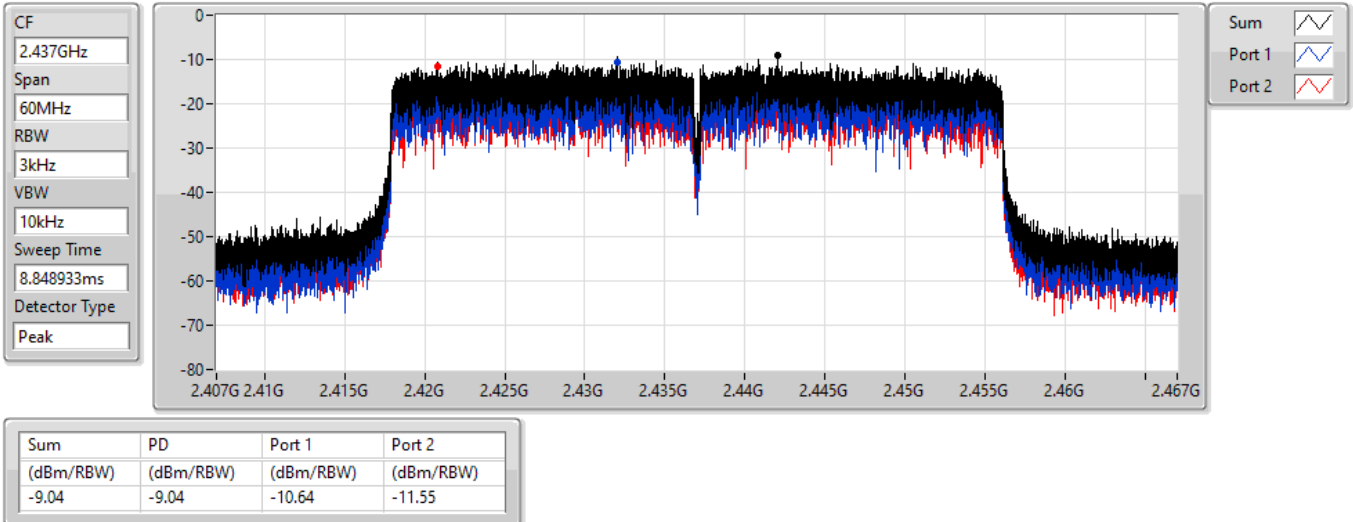


802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

2437MHz

05/10/2022

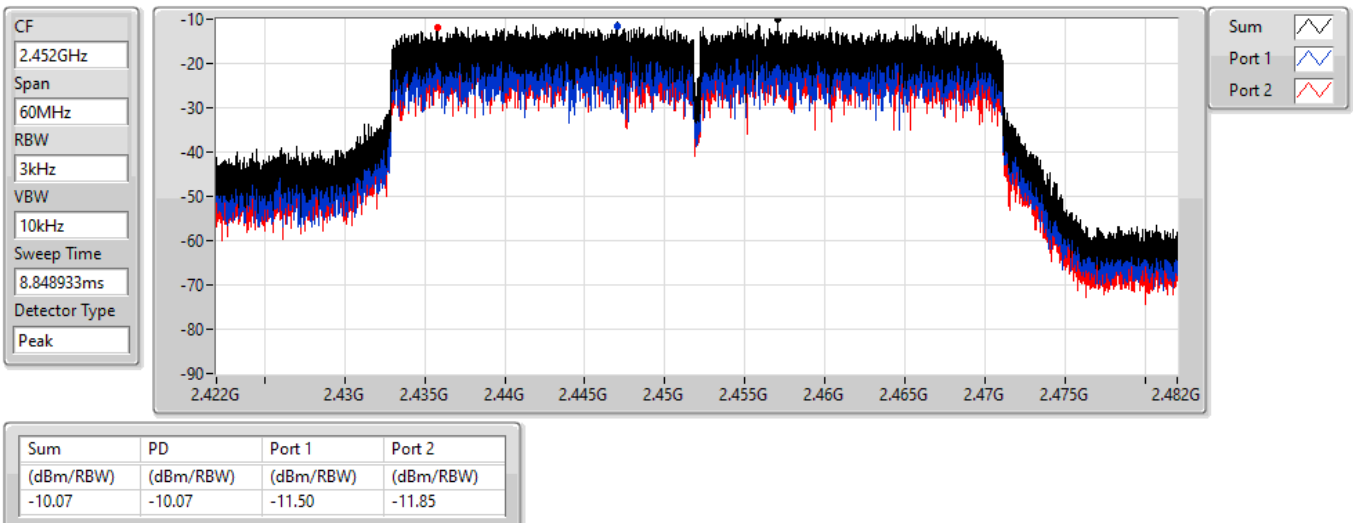


802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

2452MHz

05/10/2022



For beamforming mode:

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.05
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-6.27

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.01	-7.17	-7.51	-4.70	7.99
2437MHz	Pass	6.01	-2.47	-3.46	0.05	7.99
2462MHz	Pass	6.01	-6.28	-6.47	-3.98	7.99
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.01	-9.32	-11.82	-7.38	7.99
2437MHz	Pass	6.01	-9.27	-9.12	-6.27	7.99
2452MHz	Pass	6.01	-10.14	-9.76	-6.94	7.99

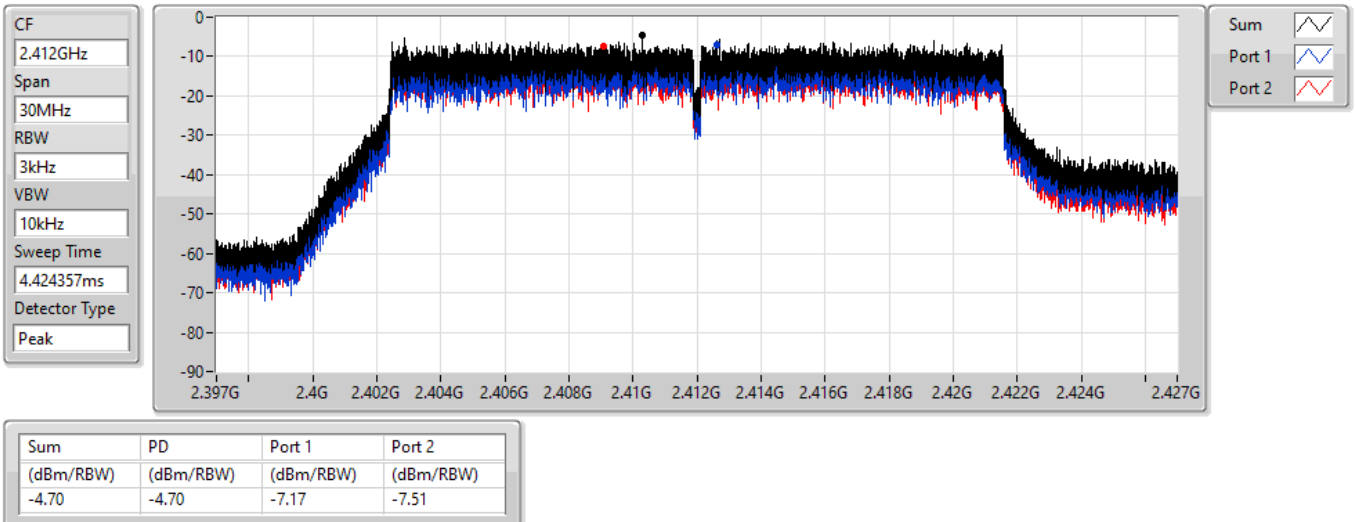
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2412MHz

05/10/2022

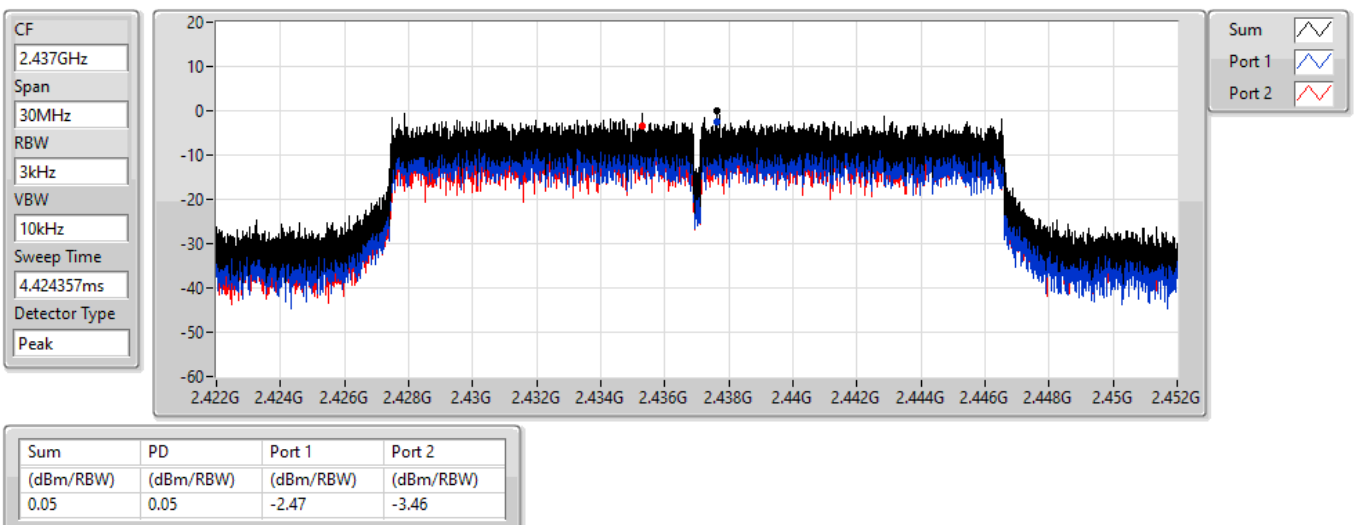


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

05/10/2022

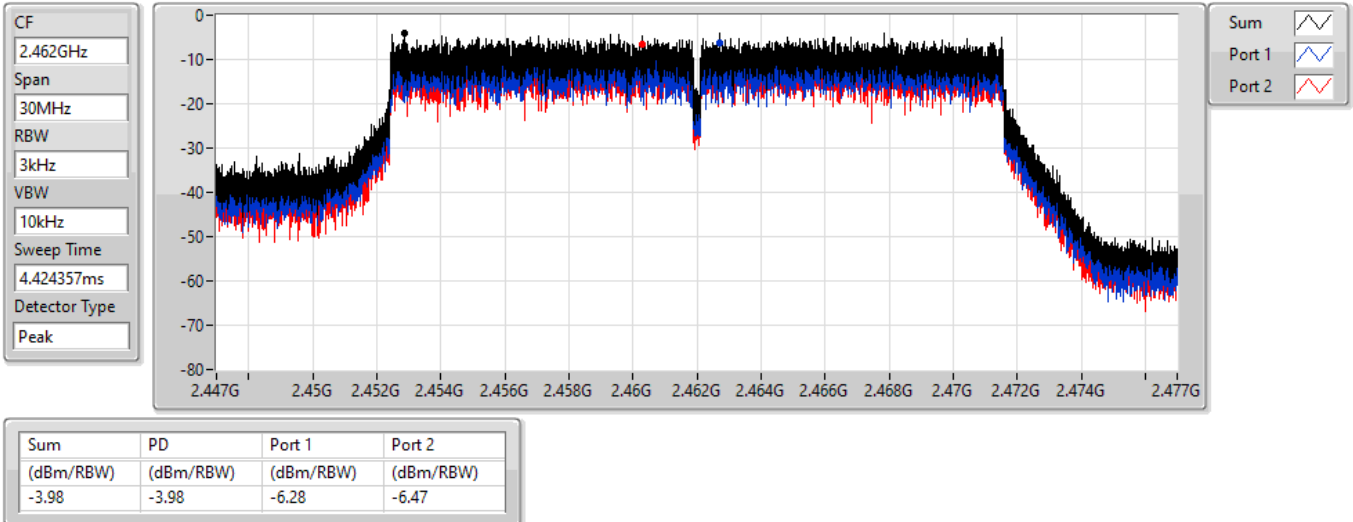


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2462MHz

05/10/2022

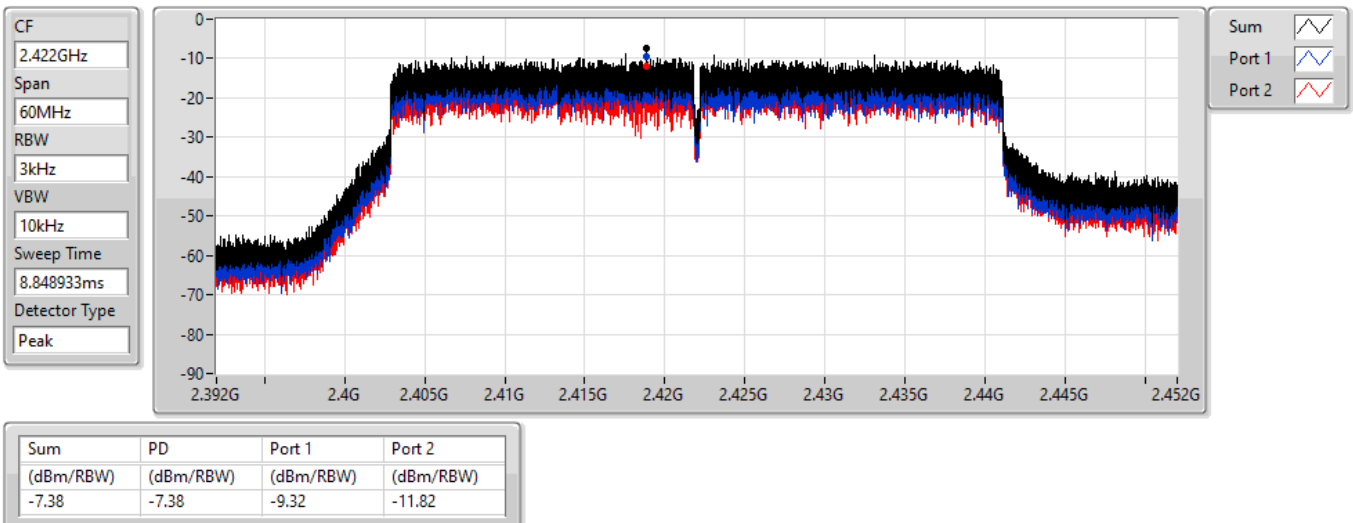


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2422MHz

05/10/2022

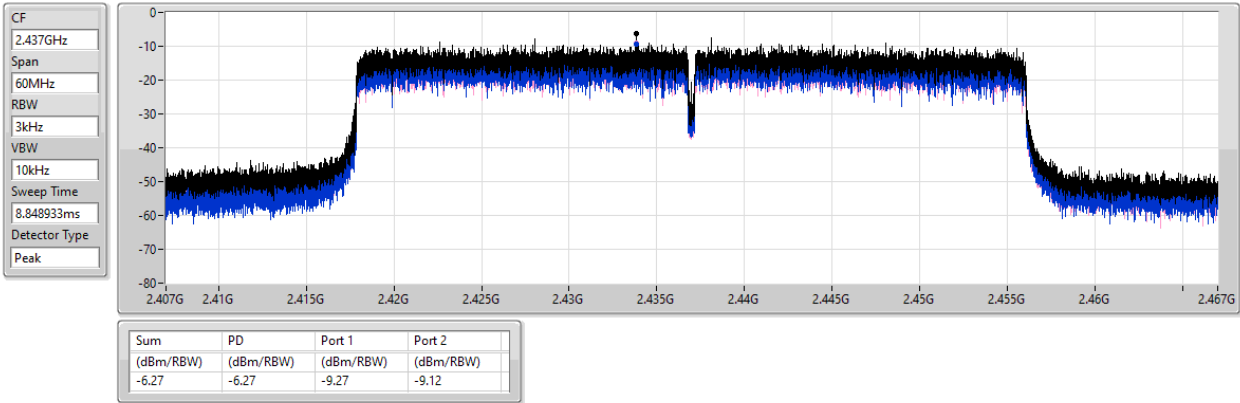


2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz

PSD

28/10/2022

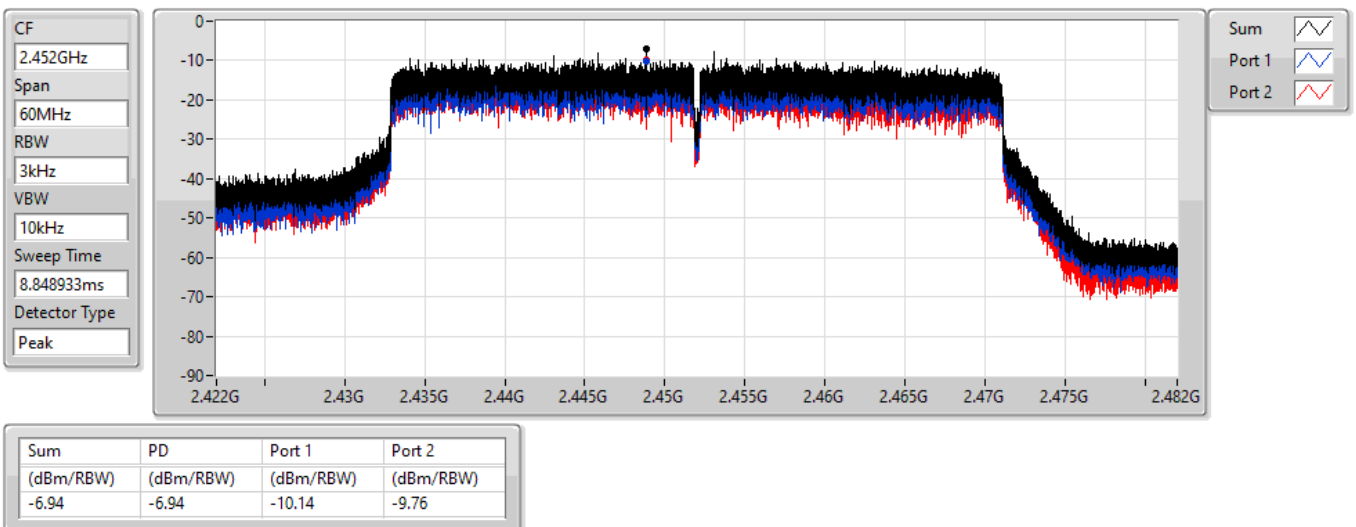


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz

PSD

05/10/2022





For non-beamforming mode:

Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43599G	16.80	-13.20	2.14069G	-51.83	2.39648G	-35.97	2.4835G	-46.30	2.4835G	-45.18	6.79404G	-45.85	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43198G	11.80	-18.20	2.30408G	-51.23	2.39988G	-34.43	2.4G	-34.34	2.48786G	-49.35	6.9907G	-46.65	2
802.11ax HEW20_Nss2,(MCS0)_2TX	Pass	2.442G	11.99	-18.01	2.30437G	-51.65	2.4G	-36.17	2.4G	-34.97	2.48364G	-49.23	16.48141G	-46.41	1
802.11ax HEW40_Nss2,(MCS0)_2TX	Pass	2.43198G	4.19	-25.81	2.30054G	-50.65	2.39952G	-31.54	2.4G	-31.97	2.48678G	-48.71	6.804G	-46.39	1

Result

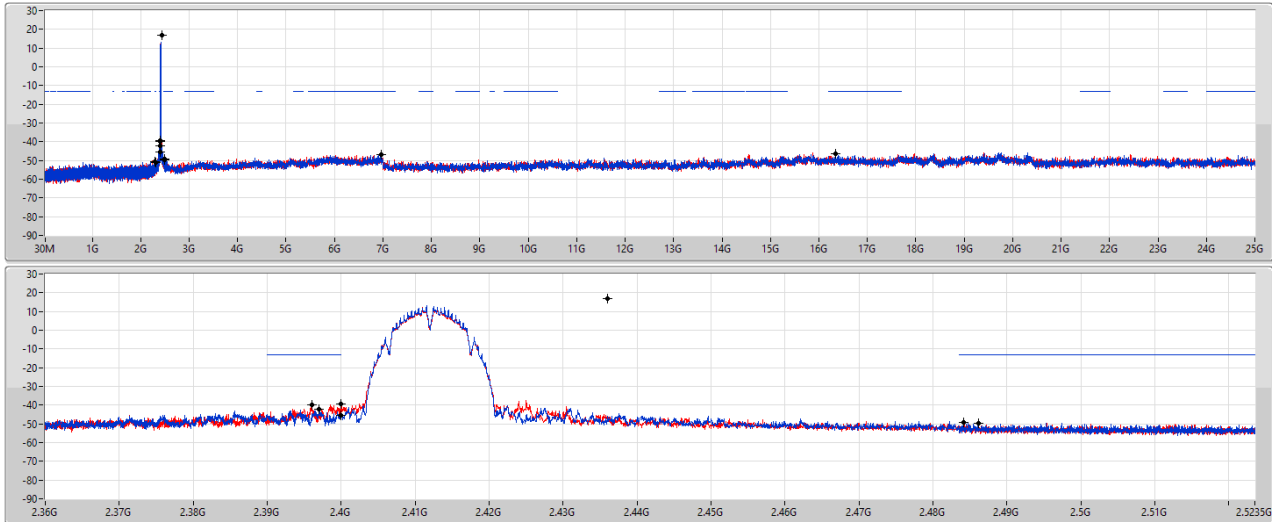
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43599G	16.80	-13.20	2.30059G	-50.68	2.39702G	-42.05	2.4G	-45.58	2.48418G	-49.41	16.34093G	-46.25	1
2412MHz	Pass	2.43599G	16.80	-13.20	2.30495G	-50.91	2.39602G	-39.64	2.4G	-39.43	2.4861G	-49.76	6.95699G	-46.82	2
2437MHz	Pass	2.43599G	16.80	-13.20	950.64M	-51.69	2.39952G	-36.10	2.4G	-38.38	2.48598G	-43.12	5.85564G	-46.69	1
2437MHz	Pass	2.43599G	16.80	-13.20	2.14069G	-51.83	2.39648G	-35.97	2.4835G	-46.30	2.4835G	-45.18	6.79404G	-45.85	2
2462MHz	Pass	2.43599G	16.80	-13.20	2.17214G	-51.56	2.39948G	-47.64	2.4G	-48.94	2.48846G	-43.67	6.02702G	-46.27	1
2462MHz	Pass	2.43599G	16.80	-13.20	2.30903G	-51.35	2.39294G	-48.91	2.4835G	-49.01	2.497G	-44.39	5.82474G	-46.32	2
802.11g_Nss1(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43198G	11.80	-18.20	2.30321G	-50.31	2.39984G	-35.08	2.4G	-34.58	2.4851G	-48.97	6.93451G	-46.69	1
2412MHz	Pass	2.43198G	11.80	-18.20	2.30408G	-51.23	2.39988G	-34.43	2.4G	-34.34	2.48786G	-49.35	6.9907G	-46.65	2
2437MHz	Pass	2.43198G	11.80	-18.20	2.30466G	-52.01	2.39926G	-37.43	2.4G	-41.23	2.48388G	-41.45	5.81069G	-47.12	1
2437MHz	Pass	2.43198G	11.80	-18.20	908.41M	-51.52	2.39948G	-34.34	2.4G	-38.05	2.48456G	-42.16	16.34093G	-46.22	2
2462MHz	Pass	2.43198G	11.80	-18.20	2.19574G	-51.62	2.3963G	-46.59	2.4835G	-43.49	2.48362G	-39.51	16.25945G	-46.05	1
2462MHz	Pass	2.43198G	11.80	-18.20	780.26M	-51.61	2.39806G	-48.38	2.4835G	-40.01	2.48544G	-35.70	5.77135G	-46.52	2
802.11ax HEW20_Nss2(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	11.99	-18.01	2.30437G	-51.65	2.4G	-36.17	2.4G	-34.97	2.48364G	-49.23	16.48141G	-46.41	1
2412MHz	Pass	2.442G	11.99	-18.01	2.11186G	-51.07	2.39996G	-35.98	2.4G	-35.14	2.49198G	-49.49	17.65861G	-47.06	2
2437MHz	Pass	2.442G	11.99	-18.01	920.06M	-52.27	2.39852G	-35.37	2.4G	-39.52	2.48604G	-42.86	17.68109G	-46.38	1
2437MHz	Pass	2.442G	11.99	-18.01	869.97M	-51.83	2.39952G	-35.67	2.4G	-40.11	2.4871G	-41.83	17.67547G	-46.81	2
2462MHz	Pass	2.442G	11.99	-18.01	1.80896G	-51.22	2.39808G	-48.00	2.4835G	-45.61	2.48374G	-41.59	6.98789G	-46.57	1
2462MHz	Pass	2.442G	11.99	-18.01	2.16428G	-51.69	2.39954G	-48.60	2.4835G	-47.82	2.48592G	-44.70	5.89217G	-45.73	2
802.11ax HEW40_Nss2(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	4.19	-25.81	2.30054G	-50.65	2.39952G	-31.54	2.4G	-31.97	2.48678G	-48.71	6.804G	-46.39	1
2422MHz	Pass	2.43198G	4.19	-25.81	2.30798G	-50.05	2.39956G	-32.29	2.4G	-34.06	2.4929G	-48.71	16.21611G	-46.06	2
2437MHz	Pass	2.43198G	4.19	-25.81	2.30368G	-51.78	2.39952G	-34.79	2.4G	-38.04	2.48442G	-40.41	6.47026G	-47.04	1
2437MHz	Pass	2.43198G	4.19	-25.81	2.30769G	-50.91	2.39832G	-33.49	2.4G	-37.66	2.48474G	-40.04	6.45904G	-45.67	2
2452MHz	Pass	2.43198G	4.19	-25.81	2.03976G	-51.37	2.39956G	-35.56	2.4G	-36.54	2.4845G	-38.01	17.67729G	-46.91	1
2452MHz	Pass	2.43198G	4.19	-25.81	2.30798G	-51.09	2.39952G	-34.21	2.4G	-38.19	2.4895G	-43.43	24.69711G	-46.03	2

802.11b_Nss1,(1Mbps)_2TX

2412MHz

CSENdB

05/10/2022



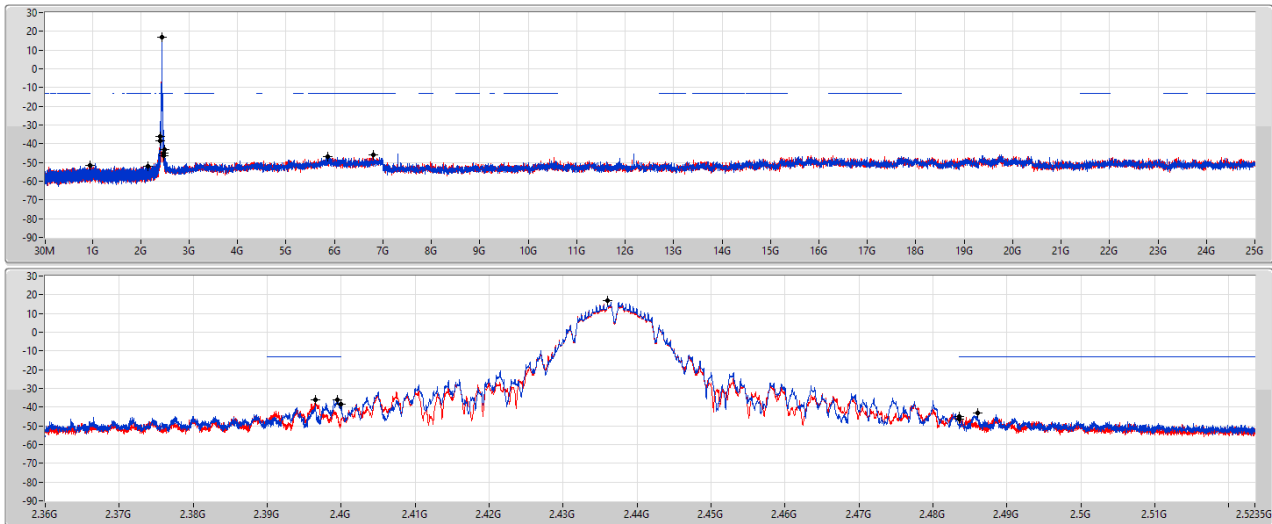
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2.43599G	16.80	-13.20	2.30059G	-50.68	2.39702G	-42.05	2.4G	-45.58	2.48418G	-49.41	16.34093G	-46.25	1
2.43599G	16.80	-13.20	2.30495G	-50.91	2.39602G	-39.64	2.4G	-39.43	2.4861G	-49.76	6.95699G	-46.82	2

802.11b_Nss1,(1Mbps)_2TX

2437MHz

CSENdB

05/10/2022



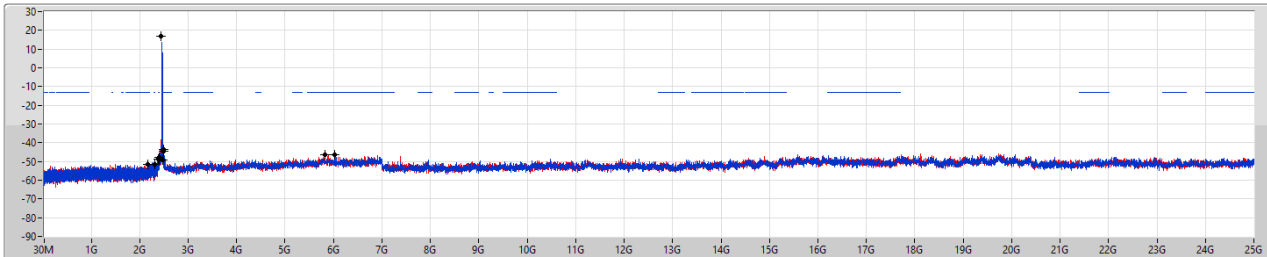
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2.43599G	16.80	-13.20	950.64M	-51.69	2.39952G	-36.10	2.4G	-38.38	2.48598G	-43.12	5.85564G	-46.69	1
2.43599G	16.80	-13.20	2.14069G	-51.83	2.39648G	-35.97	2.4835G	-46.30	2.4835G	-45.18	6.79404G	-45.85	2

802.11b_Nss1,(1Mbps)_2TX

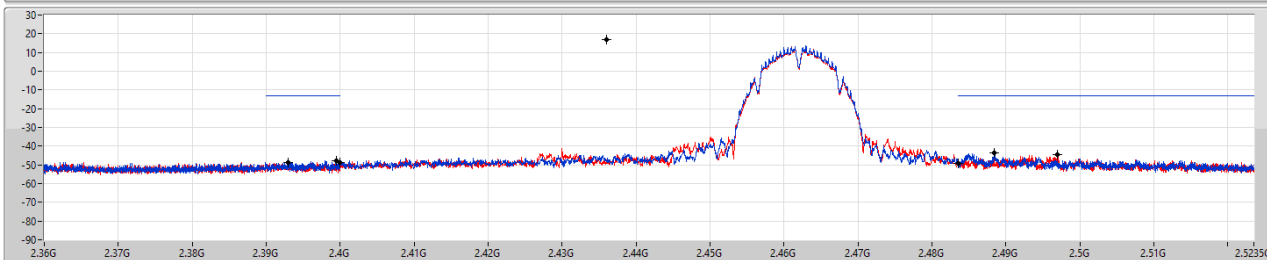
2462MHz

CSEndB

05/10/2022



Port 1
Port 2



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

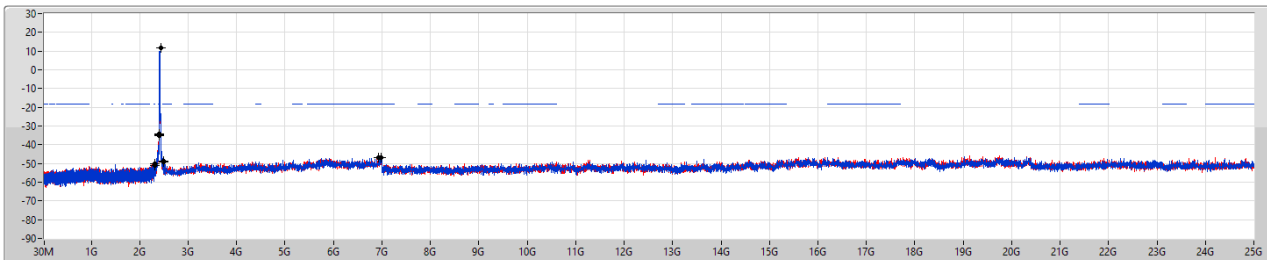
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43599G	16.80	-13.20	2.17214G	-51.56	2.39948G	-47.64	2.4G	-48.94	2.48846G	-43.67	6.02702G	-46.27	1
2.43599G	16.80	-13.20	2.30903G	-51.35	2.39294G	-48.91	2.4835G	-49.01	2.497G	-44.39	5.82474G	-46.32	2

802.11g_Nss1,(6Mbps)_2TX

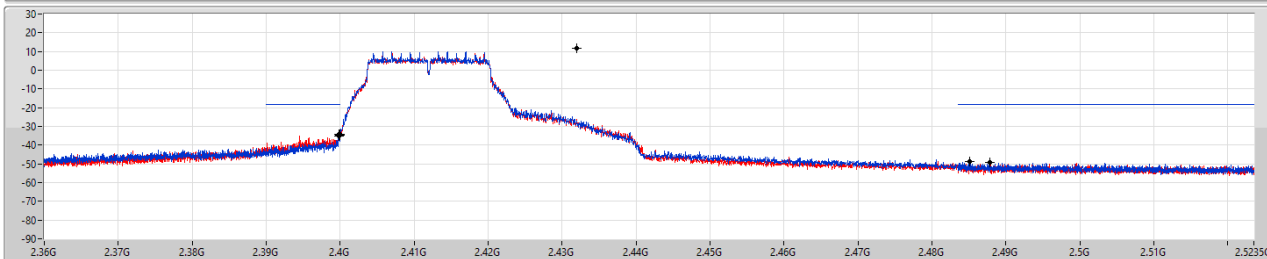
2412MHz

CSEndB

05/10/2022



Port 1
Port 2



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

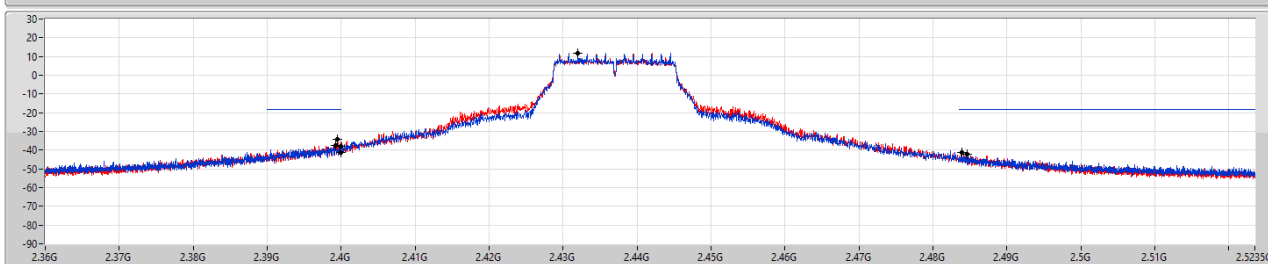
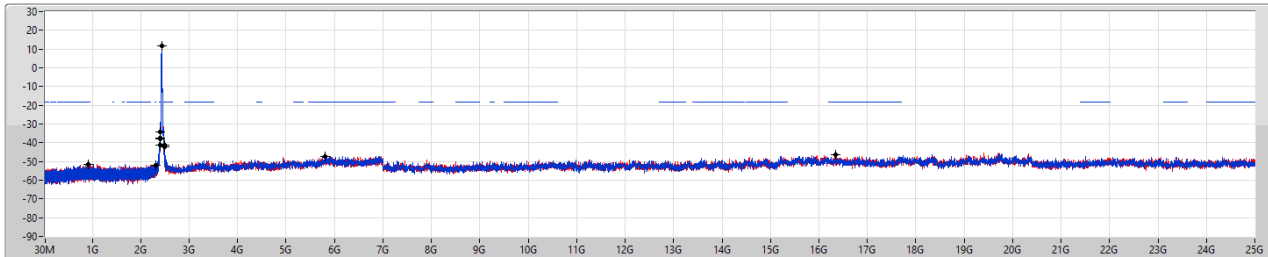
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	11.80	-18.20	2.30321G	-50.31	2.39984G	-35.08	2.4G	-34.58	2.4851G	-48.97	6.93451G	-46.69	1
2.43198G	11.80	-18.20	2.30408G	-51.23	2.39988G	-34.43	2.4G	-34.34	2.48786G	-49.35	6.9907G	-46.65	2

802.11g_Nss1,(6Mbps)_2TX

2437MHz

CSEndB

05/10/2022



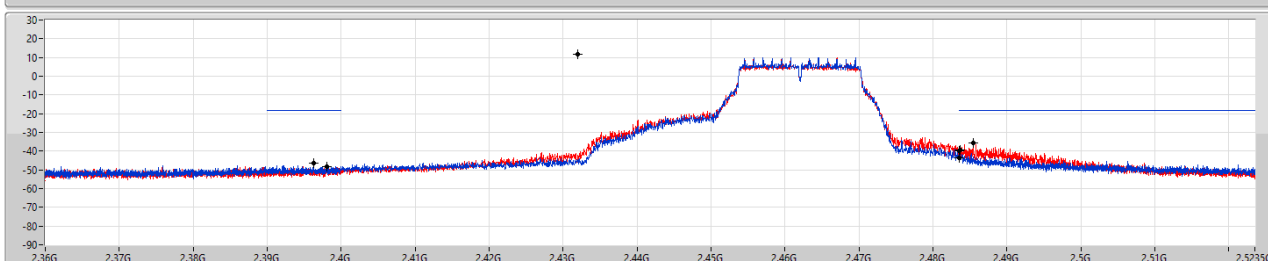
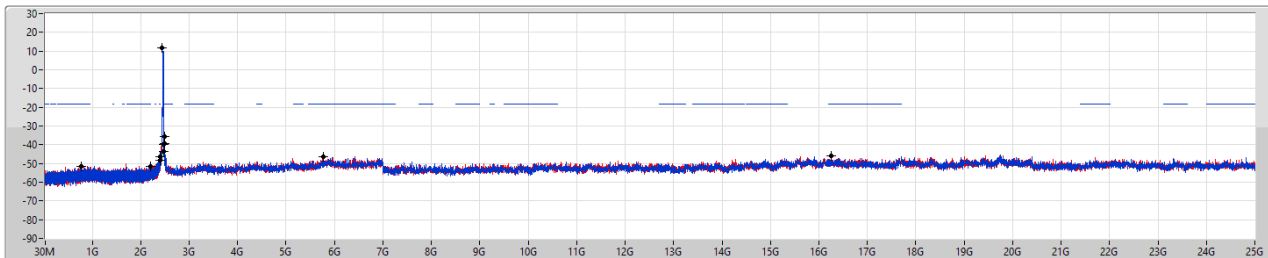
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	11.80	-18.20	2.30466G	-52.01	2.39926G	-37.43	2.4G	-41.23	2.48388G	-41.45	5.81069G	-47.12	1
2.43198G	11.80	-18.20	908.41M	-51.52	2.39948G	-34.34	2.4G	-38.05	2.48456G	-42.16	16.34093G	-46.22	2

802.11g_Nss1,(6Mbps)_2TX

2462MHz

CSEndB

05/10/2022



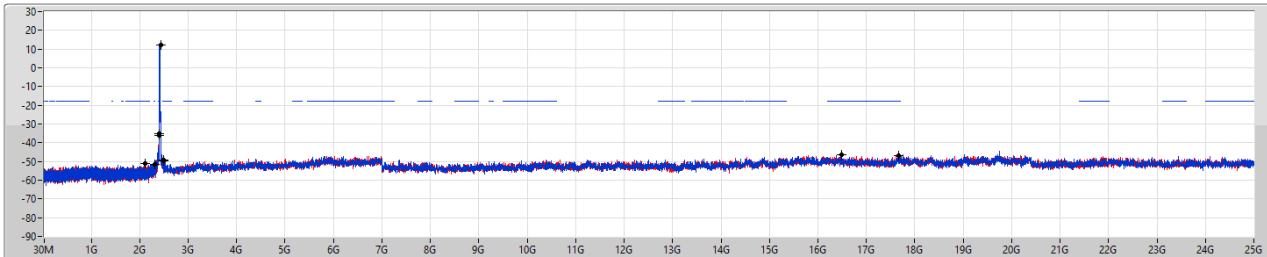
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	11.80	-18.20	2.19574G	-51.62	2.3963G	-46.59	2.4835G	-43.49	2.48362G	-39.51	16.25945G	-46.05	1
2.43198G	11.80	-18.20	780.26M	-51.61	2.39806G	-48.38	2.4835G	-40.01	2.48544G	-35.70	5.77135G	-46.52	2

802.11ax HEW20_Nss2,(MCS0)_2TX

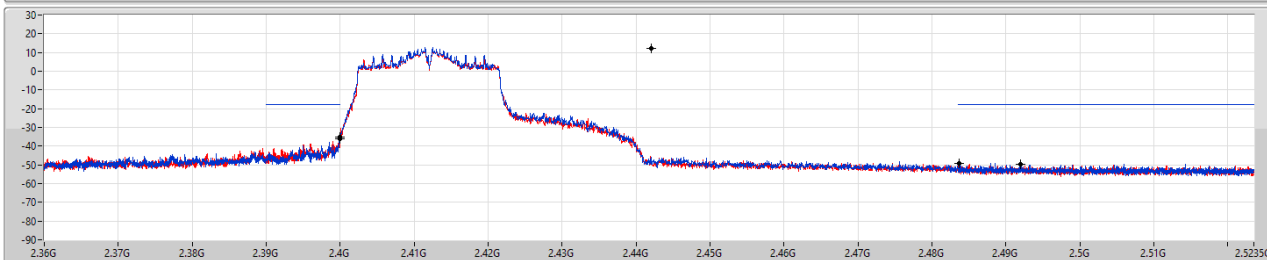
CSENdB

2412MHz

05/10/2022



Port 1
Port 2



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

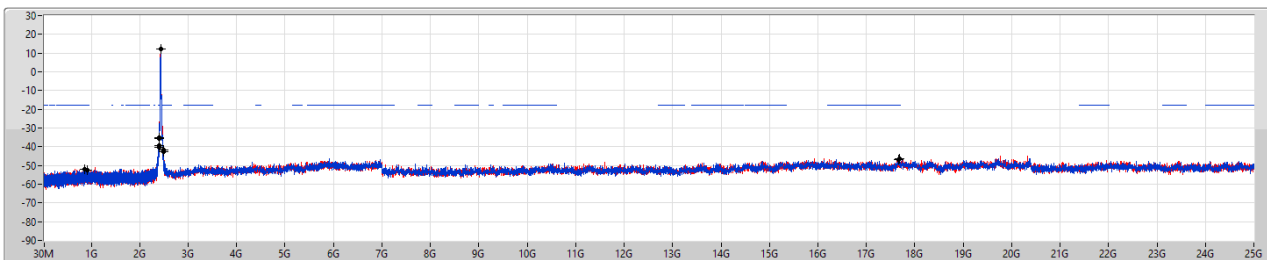
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	11.99	-18.01	2.30437G	-51.65	2.4G	-36.17	2.4G	-34.97	2.48364G	-49.23	16.48141G	-46.41	1
2.442G	11.99	-18.01	2.11186G	-51.07	2.39996G	-35.98	2.4G	-35.14	2.49198G	-49.49	17.65861G	-47.06	2

802.11ax HEW20_Nss2,(MCS0)_2TX

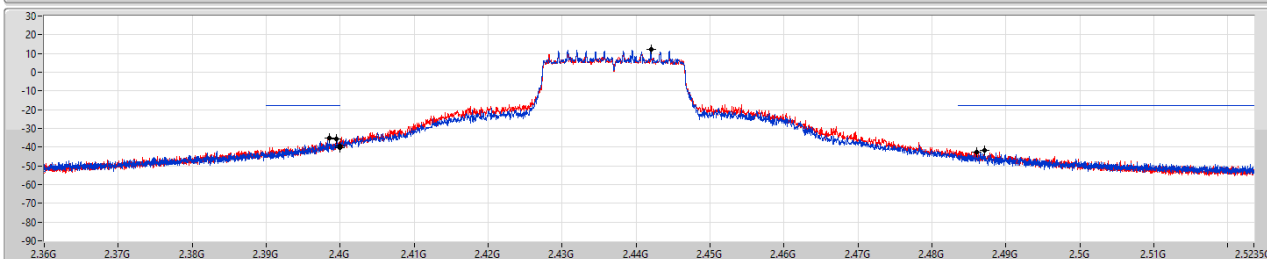
CSENdB

2437MHz

05/10/2022



Port 1
Port 2



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

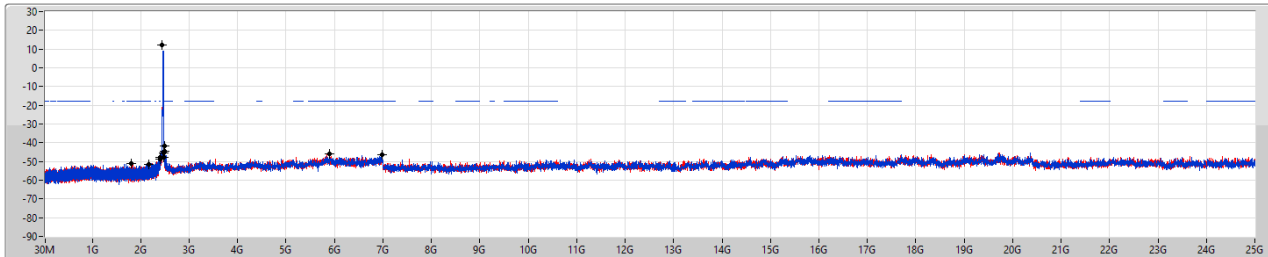
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	11.99	-18.01	920.06M	-52.27	2.39852G	-35.37	2.4G	-39.52	2.48604G	-42.86	17.68109G	-46.38	1
2.442G	11.99	-18.01	869.97M	-51.83	2.39952G	-35.67	2.4G	-40.11	2.4871G	-41.83	17.67547G	-46.81	2

802.11ax HEW20_Nss2,(MCS0)_2TX

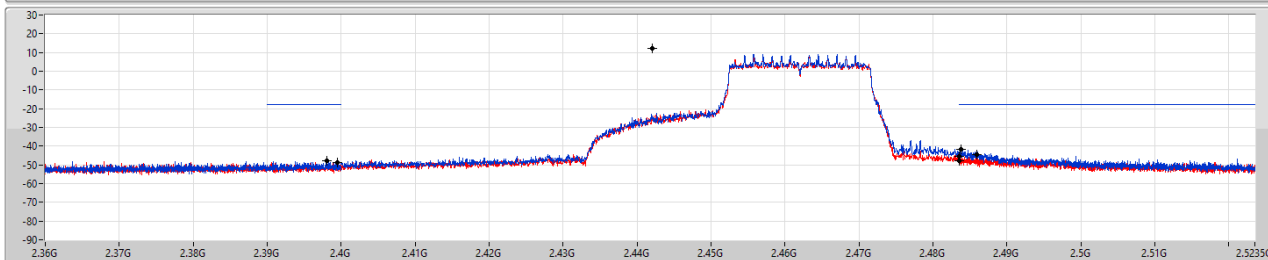
2462MHz

CSEndB

05/10/2022



Port 1
Port 2



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

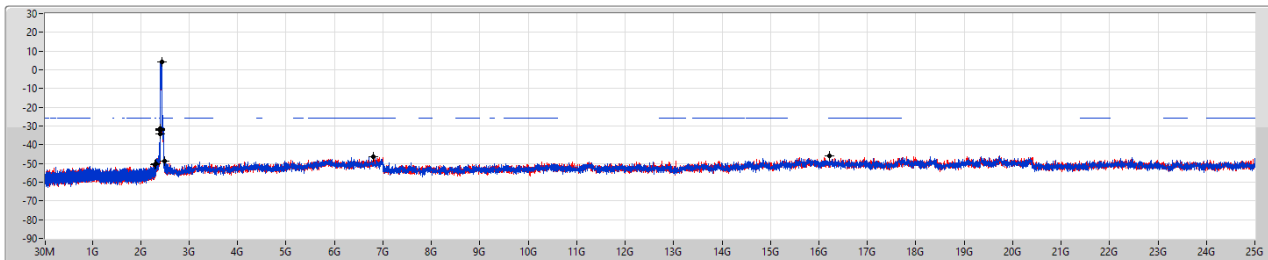
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	11.99	-18.01	1.80896G	-51.22	2.39808G	-48.00	2.4835G	-45.61	2.48374G	-41.59	6.98789G	-46.57	1
2.442G	11.99	-18.01	2.16428G	-51.69	2.39954G	-48.60	2.4835G	-47.82	2.48592G	-44.70	5.89217G	-45.73	2

802.11ax HEW40_Nss2,(MCS0)_2TX

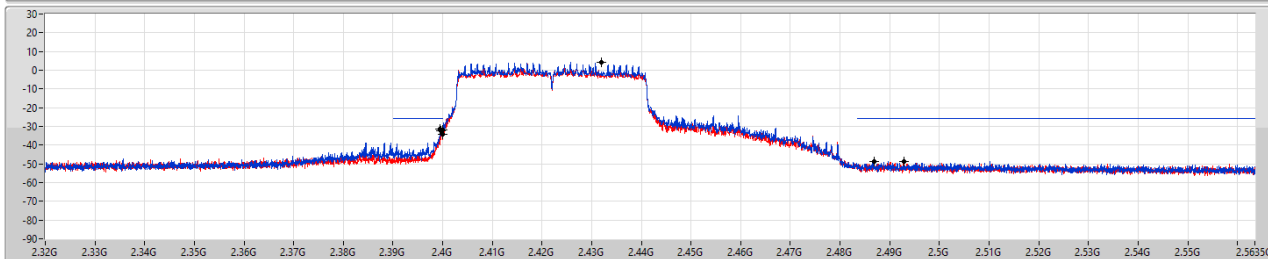
2422MHz

CSEndB

05/10/2022



Port 1
Port 2



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

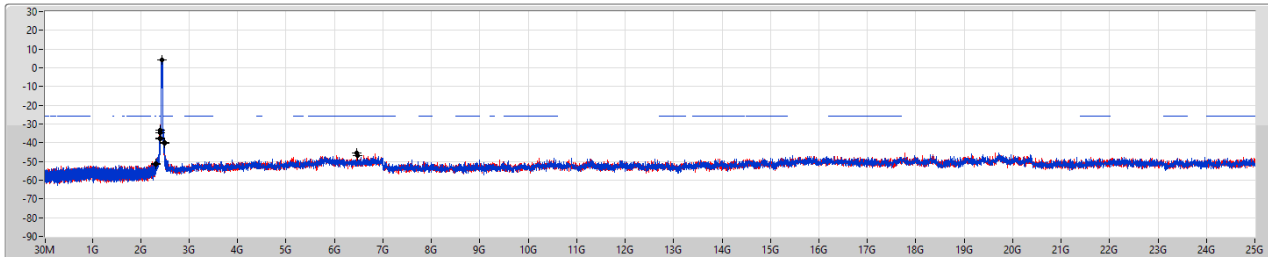
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	4.19	-25.81	2.30054G	-50.65	2.39952G	-31.54	2.4G	-31.97	2.48678G	-48.71	6.804G	-46.39	1
2.43198G	4.19	-25.81	2.30798G	-50.05	2.39956G	-32.29	2.4G	-34.06	2.4829G	-48.71	16.21611G	-46.06	2

802.11ax HEW40_Nss2,(MCS0)_2TX

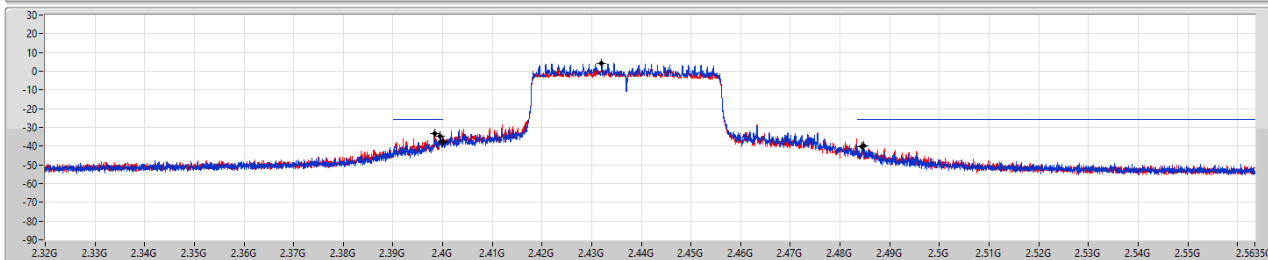
CSEndB

2437MHz

05/10/2022



Port 1
Port 2



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

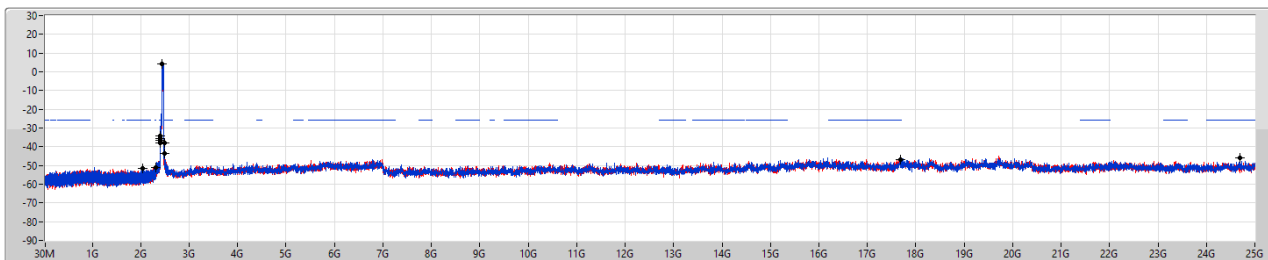
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	4.19	-25.81	2.30368G	-51.78	2.39952G	-34.79	2.4G	-38.04	2.48442G	-40.41	6.47026G	-47.04	1
2.43198G	4.19	-25.81	2.30769G	-50.91	2.39832G	-33.49	2.4G	-37.66	2.48474G	-40.04	6.45904G	-45.67	2

802.11ax HEW40_Nss2,(MCS0)_2TX

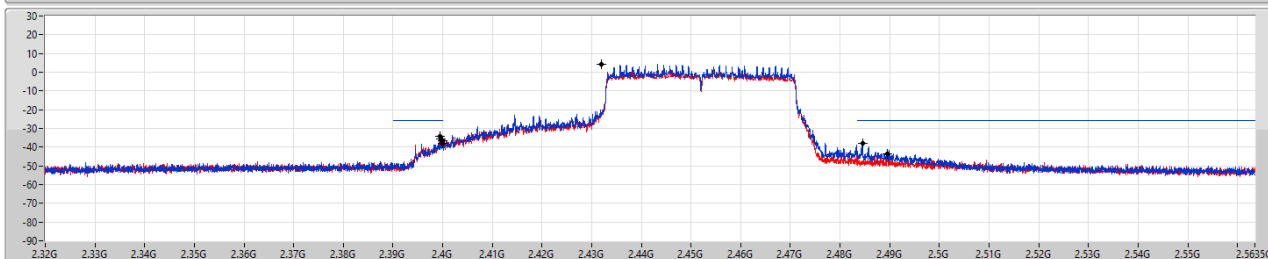
CSEndB

2452MHz

05/10/2022



Port 1
Port 2



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	4.19	-25.81	2.03976G	-51.37	2.39956G	-35.56	2.4G	-36.54	2.4845G	-38.01	17.67729G	-46.91	1
2.43198G	4.19	-25.81	2.30798G	-51.09	2.39952G	-34.21	2.4G	-38.19	2.4895G	-43.43	24.69711G	-46.03	2



For beamforming mode:

Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.43202G	12.96	-17.04	2.30728G	-52.06	2.39952G	-33.41	2.4G	-37.45	2.48516G	-38.47	6.28269G	-46.46	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.4319G	4.47	-25.53	34.58M	-46.63	2.39984G	-27.49	2.4G	-28.87	2.50078G	-43.34	17.18929G	-46.25	2

Result

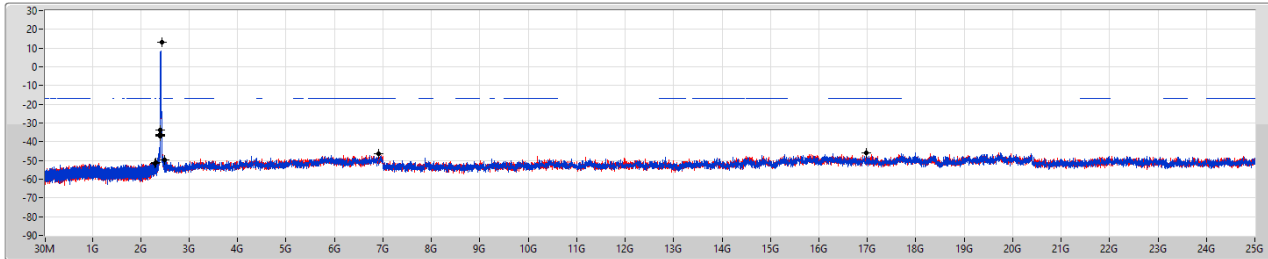
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43202G	12.96	-17.04	2.30612G	-51.07	2.39998G	-36.87	2.4G	-35.87	2.48842G	-49.63	16.98713G	-46.16	1
2412MHz	Pass	2.43202G	12.96	-17.04	2.30088G	-51.37	2.39998G	-36.59	2.4G	-33.64	2.48994G	-49.58	6.91204G	-46.42	2
2437MHz	Pass	2.43202G	12.96	-17.04	825.99M	-50.34	2.39968G	-33.47	2.4G	-33.93	2.48596G	-37.66	5.56626G	-46.10	1
2437MHz	Pass	2.43202G	12.96	-17.04	2.30728G	-52.06	2.39952G	-33.41	2.4G	-37.45	2.48516G	-38.47	6.28269G	-46.46	2
2462MHz	Pass	2.43202G	12.96	-17.04	2.30117G	-51.68	2.39378G	-47.79	2.4835G	-39.54	2.48374G	-36.41	5.9905G	-46.85	1
2462MHz	Pass	2.43202G	12.96	-17.04	2.30262G	-51.56	2.39682G	-47.88	2.4835G	-41.86	2.48352G	-39.22	16.70617G	-46.73	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.41323G	4.45	-25.55	2.30597G	-49.32	2.39996G	-31.29	2.4G	-31.74	2.48682G	-47.83	6.48708G	-46.98	1
2422MHz	Pass	2.41323G	4.45	-25.55	2.30683G	-50.29	2.4G	-30.23	2.4G	-33.22	2.50286G	-48.93	16.90323G	-46.79	2
2437MHz	Pass	2.43457G	4.47	-25.53	34.58M	-46.59	2.39984G	-30.41	2.4G	-31.89	2.50206G	-45.15	17.64644G	-46.87	1
2437MHz	Pass	2.4319G	4.47	-25.53	34.58M	-46.63	2.39984G	-27.49	2.4G	-28.87	2.50078G	-43.34	17.18929G	-46.25	2
2452MHz	Pass	2.41323G	4.45	-25.55	2.30483G	-50.34	2.3998G	-37.93	2.4G	-38.47	2.48446G	-36.98	16.20209G	-46.62	1
2452MHz	Pass	2.41323G	4.45	-25.55	2.30254G	-51.05	2.39956G	-34.65	2.4G	-38.31	2.49574G	-42.12	17.65205G	-46.76	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

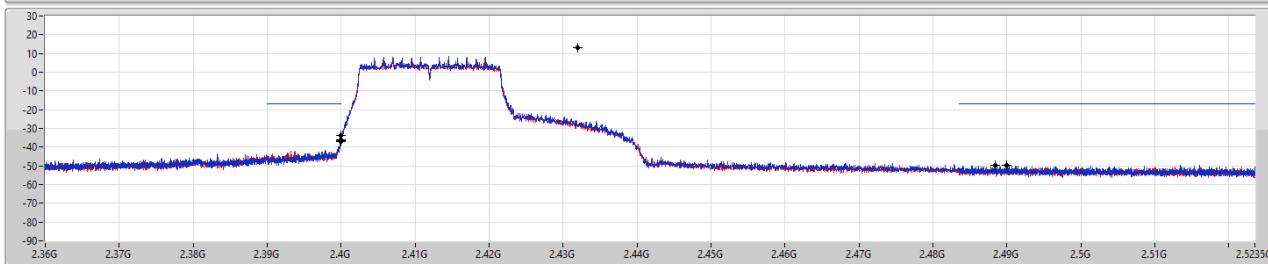
2412MHz

CSENdB

05/10/2022



Port 1
Port 2



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

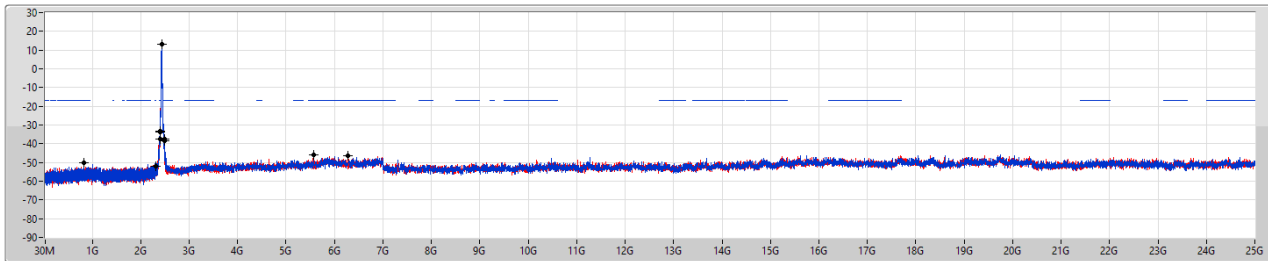
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	12.96	-17.04	2.30612G	-51.07	2.39998G	-36.87	2.4G	-35.87	2.48842G	-49.63	16.98713G	-46.16	1
2.43202G	12.96	-17.04	2.30088G	-51.37	2.39998G	-36.59	2.4G	-33.64	2.48994G	-49.58	6.91204G	-46.42	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

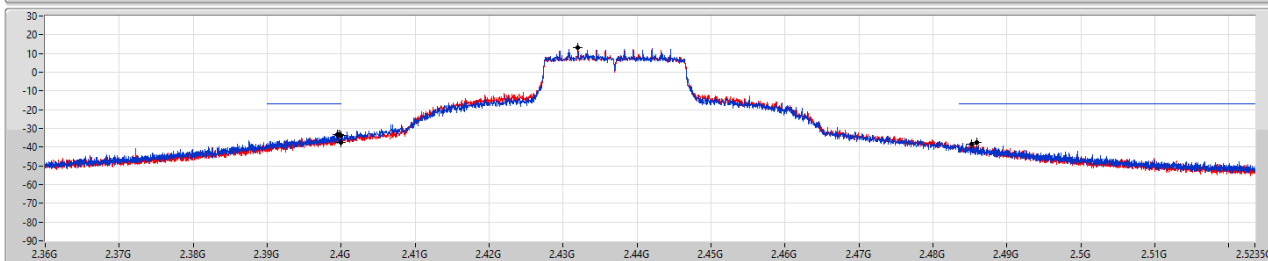
2437MHz

CSENdB

05/10/2022



Port 1
Port 2



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

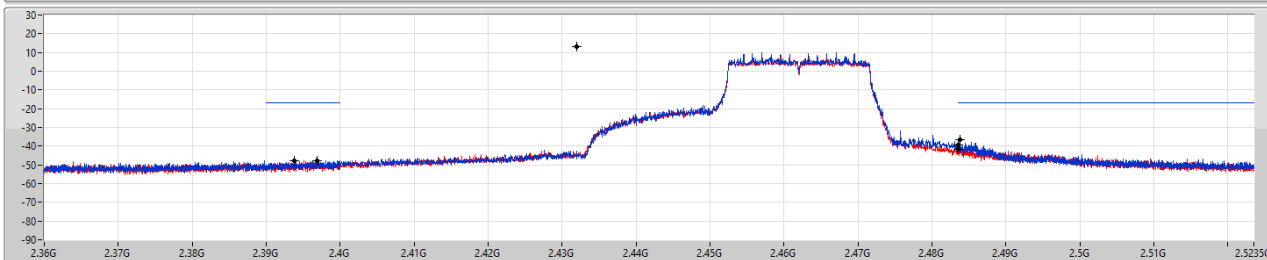
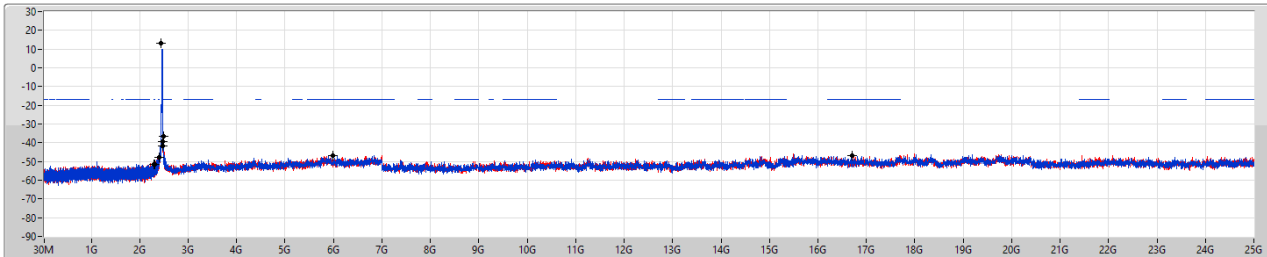
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	12.96	-17.04	825.99M	-50.34	2.39998G	-33.47	2.4G	-33.93	2.48596G	-37.66	5.56626G	-46.10	1
2.43202G	12.96	-17.04	2.30728G	-52.06	2.39952G	-33.41	2.4G	-37.45	2.48516G	-38.47	6.28269G	-46.46	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz

CSEndB

05/10/2022



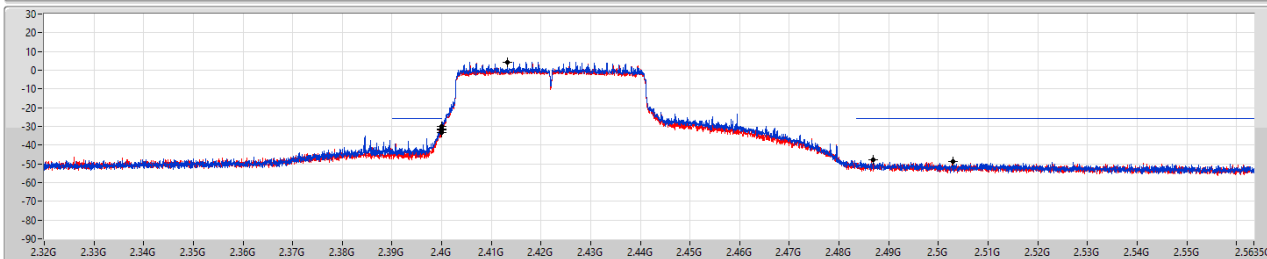
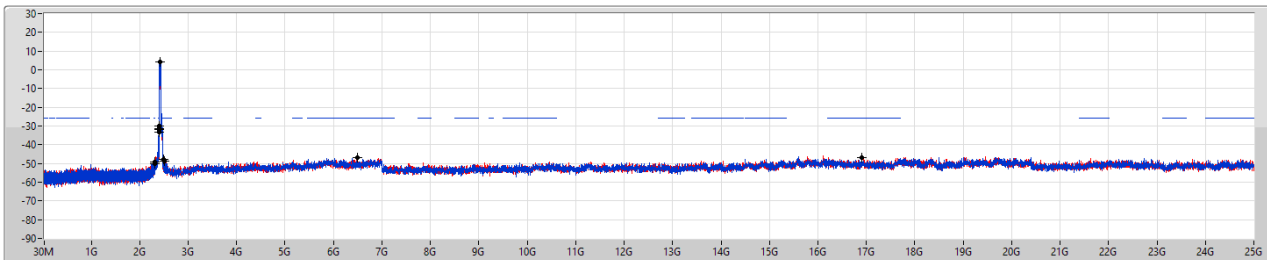
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	12.96	-17.04	2.30117G	-51.68	2.39378G	-47.79	2.4835G	-39.54	2.48374G	-36.41	5.9905G	-46.85	1
2.43202G	12.96	-17.04	2.30262G	-51.56	2.39682G	-47.88	2.4835G	-41.86	2.48352G	-39.22	16.70617G	-46.73	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz

CSEndB

05/10/2022

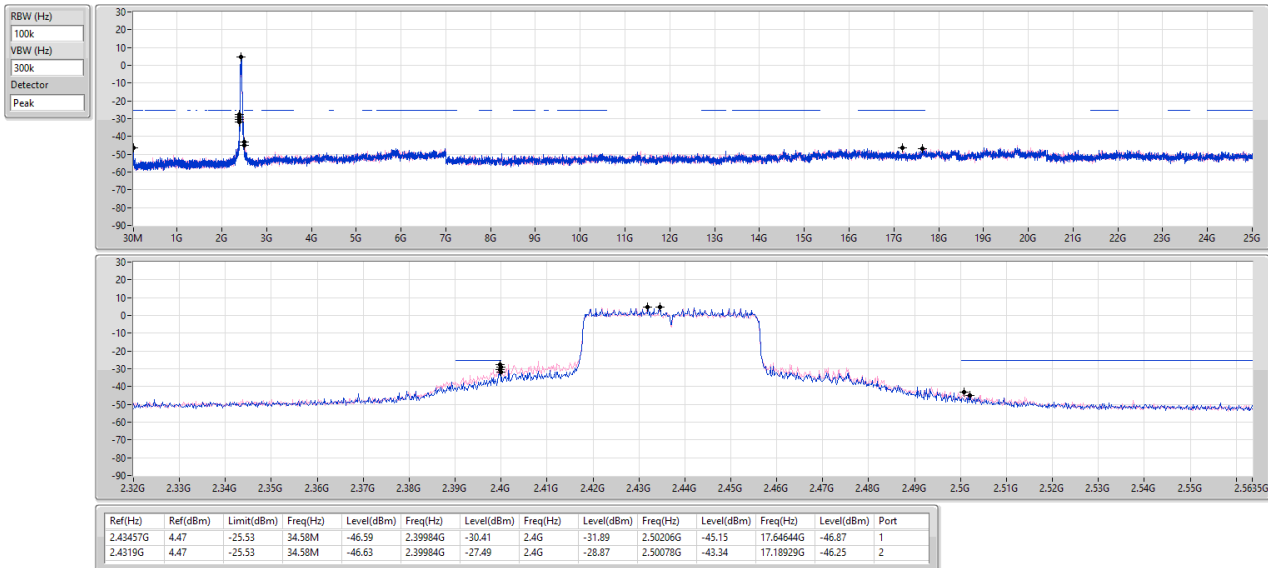


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41323G	4.45	-25.55	2.30597G	-49.32	2.39996G	-31.29	2.4G	-31.74	2.48682G	-47.83	6.48708G	-46.98	1
2.41323G	4.45	-25.55	2.3083G	-50.29	2.4G	-30.23	2.4G	-33.22	2.50286G	-48.93	16.90323G	-46.79	2

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

CSEndB

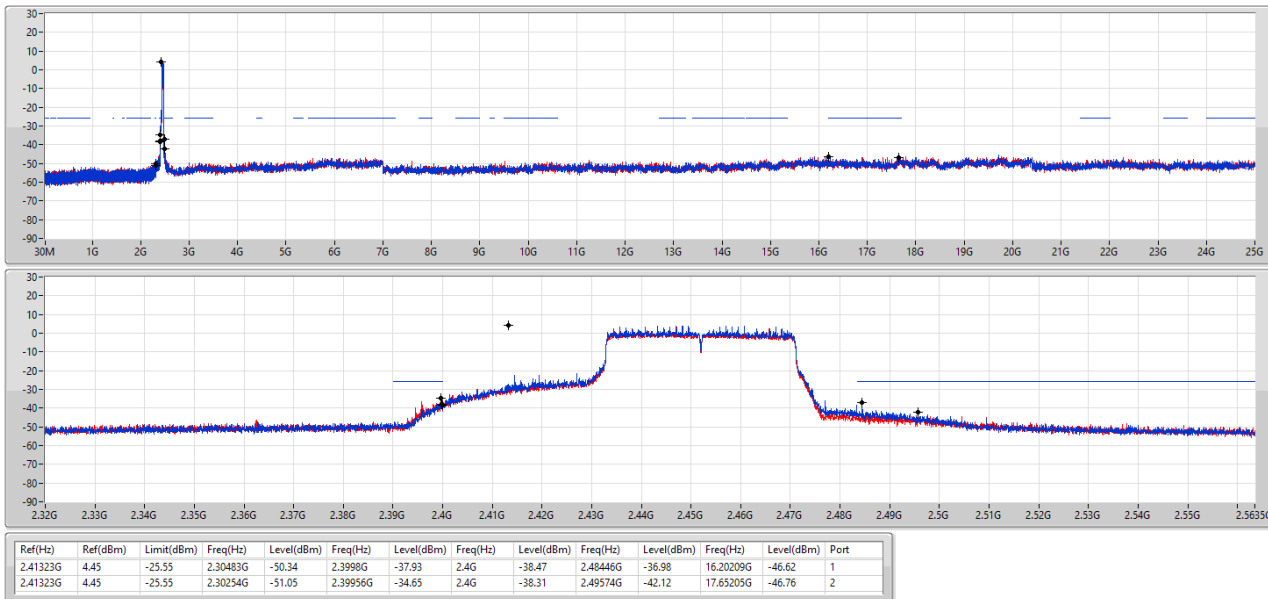
2437MHz



802.11ax HEW40-BF_Nss1,(MCS0)_2TX

CSEndB

2452MHz





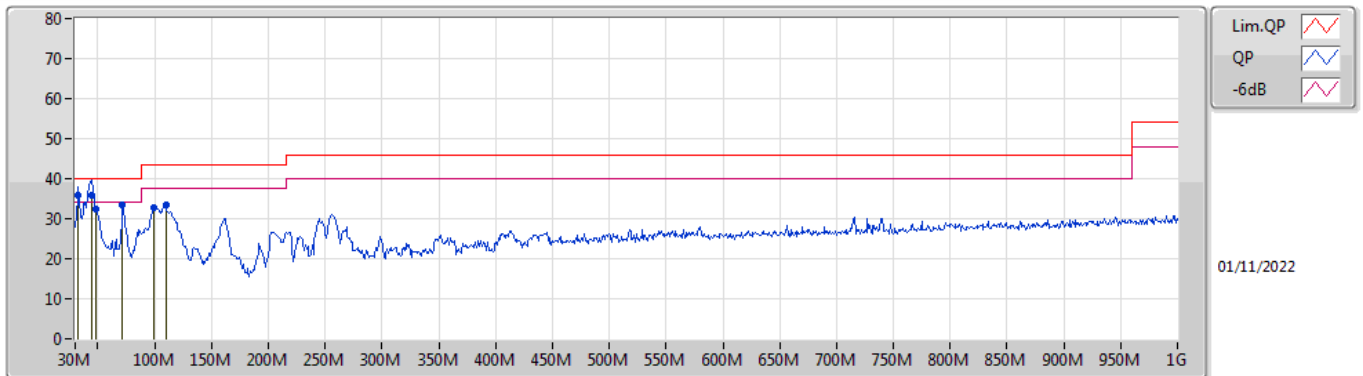
Radiated Emissions below 1GHz

Appendix F.1

Summary

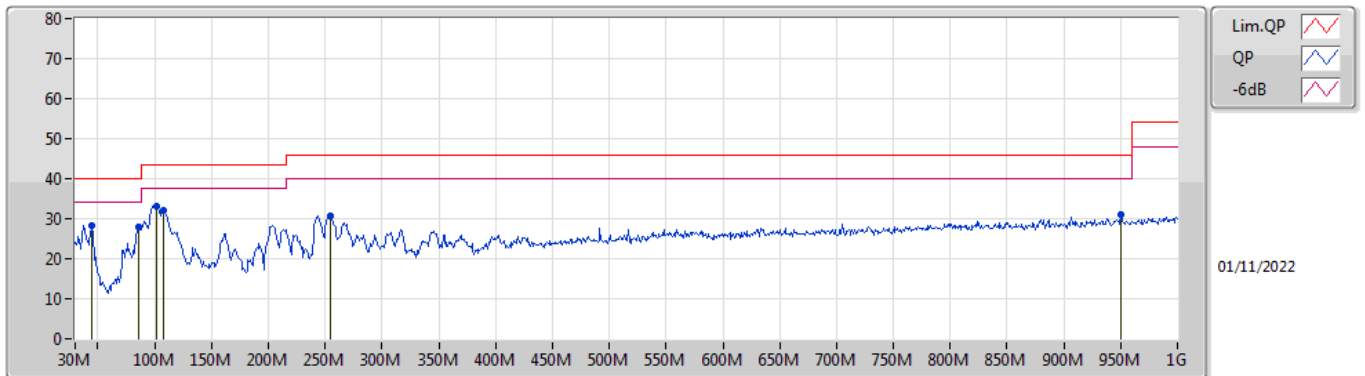
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	QP	44.55M	35.90	40.00	-4.10	Vertical

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	32.91M	35.80	40.00	-4.20	-8.74	3	Vertical	219	1.00	-	44.54	22.41	0.48	31.63
QP	44.55M	35.90	40.00	-4.10	-15.00	3	Vertical	263	1.00	"Worst"	50.90	16.22	0.60	31.82
PK	48.43M	32.28	40.00	-7.72	-16.61	3	Vertical	297	1.25	-	48.89	14.59	0.65	31.85
PK	71.71M	33.46	40.00	-6.54	-18.96	3	Vertical	175	2.00	-	52.42	12.14	0.87	31.97
PK	98.87M	32.69	43.50	-10.81	-14.49	3	Vertical	2	1.00	-	47.18	16.40	1.08	31.97
PK	109.54M	33.52	43.50	-9.98	-13.20	3	Vertical	124	1.00	-	46.72	17.60	1.17	31.97

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	44.55M	28.34	40.00	-11.66	-15.00	3	Horizontal	9	1.00	-	43.34	16.22	0.60	31.82
PK	86.26M	27.93	40.00	-12.07	-17.07	3	Horizontal	325	2.00	-	45.00	13.89	0.99	31.95
PK	101.78M	33.26	43.50	-10.24	-13.97	3	Horizontal	63	2.00	"Worst"	47.23	16.90	1.10	31.97
PK	107.6M	31.95	43.50	-11.55	-13.36	3	Horizontal	72	2.00	-	45.31	17.46	1.15	31.97
PK	254.07M	30.72	46.00	-15.28	-11.29	3	Horizontal	100	1.25	-	42.01	18.70	2.02	32.01
PK	950.53M	31.04	46.00	-14.96	-1.68	3	Horizontal	105	1.50	-	32.72	26.48	4.32	32.48



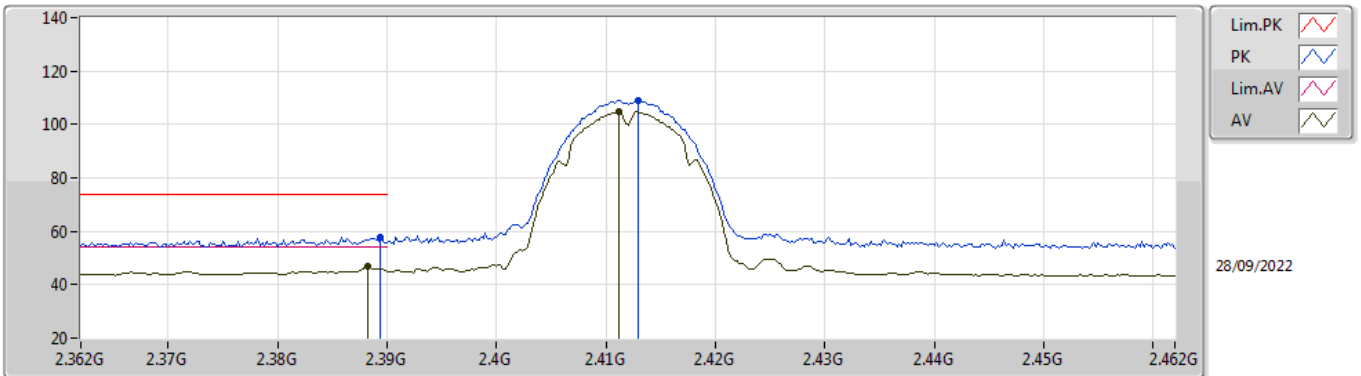
For non-beamforming mode:

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_Nss2,(MCS0)_2TX	Pass	AV	2.39G	53.98	54.00	-0.02	3	Horizontal	61	2.49	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

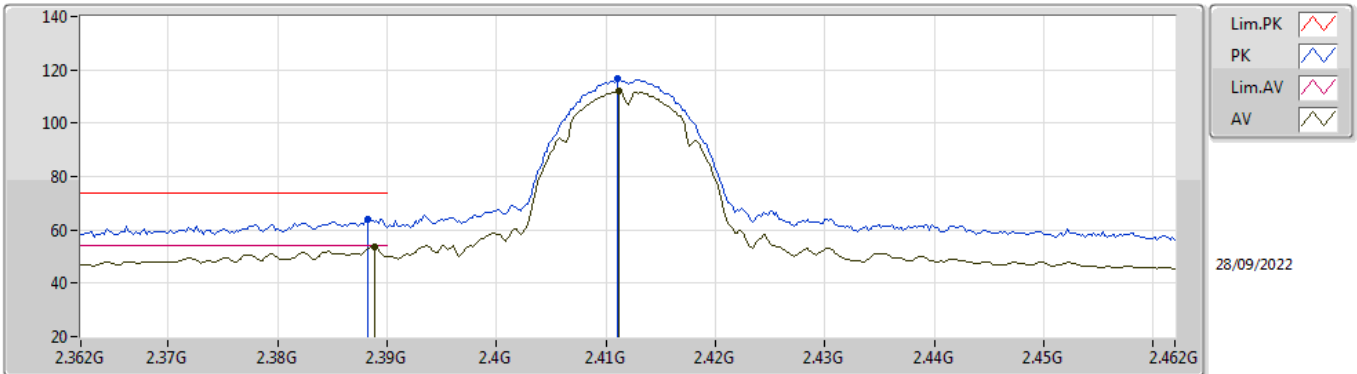


EUT Z_2TX
Setting 79
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	58.01	74.00	-15.99	26.66	3	Vertical	318	2.85	-	27.56	3.79	-
AV	2.3882G	46.80	54.00	-7.20	15.46	3	Vertical	318	2.85	-	27.55	3.79	-
PK	2.413G	109.10	Inf	-Inf	77.72	3	Vertical	318	2.85	-	27.57	3.81	-
AV	2.4112G	104.76	Inf	-Inf	73.37	3	Vertical	318	2.85	-	27.58	3.81	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

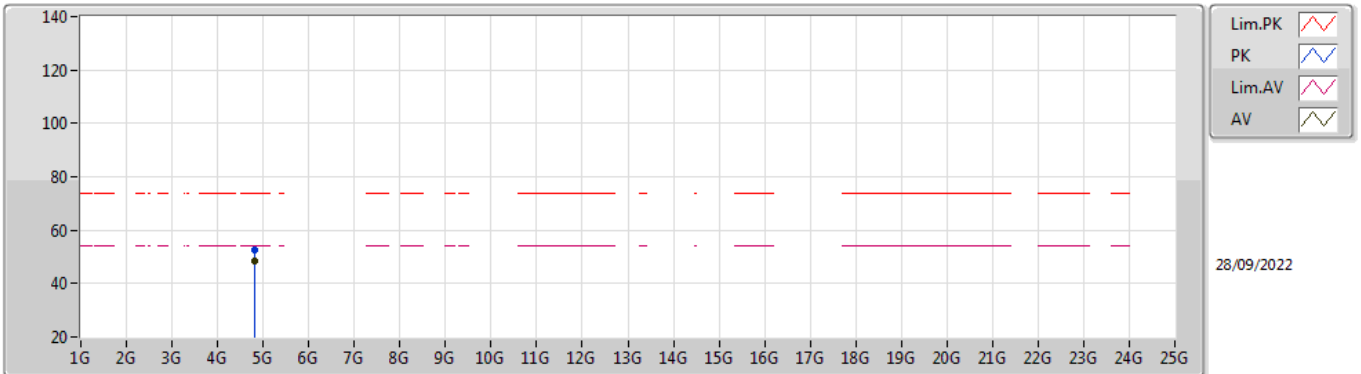


EUT_Z_2TX
Setting 79
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	63.86	74.00	-10.14	32.52	3	Horizontal	65	2.77	-	27.55	3.79	-
AV	2.3888G	53.77	54.00	-0.23	22.42	3	Horizontal	65	2.77	-	27.56	3.79	-
PK	2.411G	116.55	Inf	-Inf	85.16	3	Horizontal	65	2.77	-	27.58	3.81	-
AV	2.4112G	112.09	Inf	-Inf	80.70	3	Horizontal	65	2.77	-	27.58	3.81	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

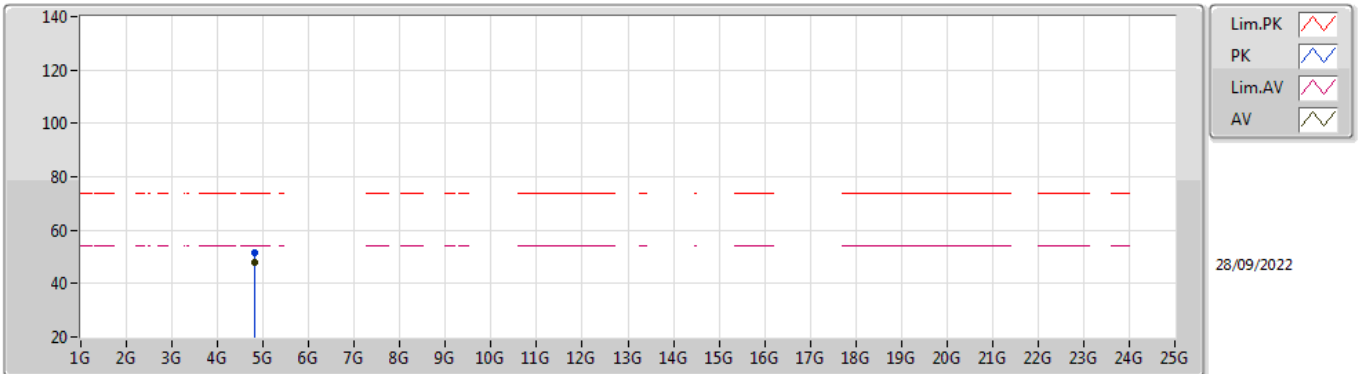


EUT Y_2TX
Setting 79
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82394G	52.66	74.00	-21.34	46.88	3	Vertical	169	1.62	-	32.45	6.22	32.89
AV	4.82402G	48.66	54.00	-5.34	42.88	3	Vertical	169	1.62	-	32.45	6.22	32.89

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

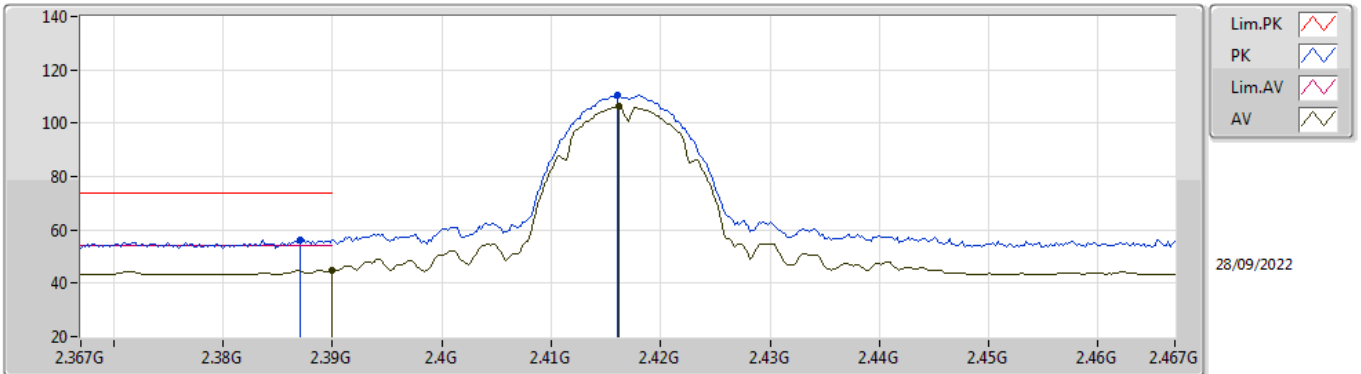


EUT Y_2TX
Setting 79
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82396G	51.44	74.00	-22.56	45.66	3	Horizontal	170	1.82	-	32.45	6.22	32.89
AV	4.824G	47.80	54.00	-6.20	42.02	3	Horizontal	170	1.82	-	32.45	6.22	32.89

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

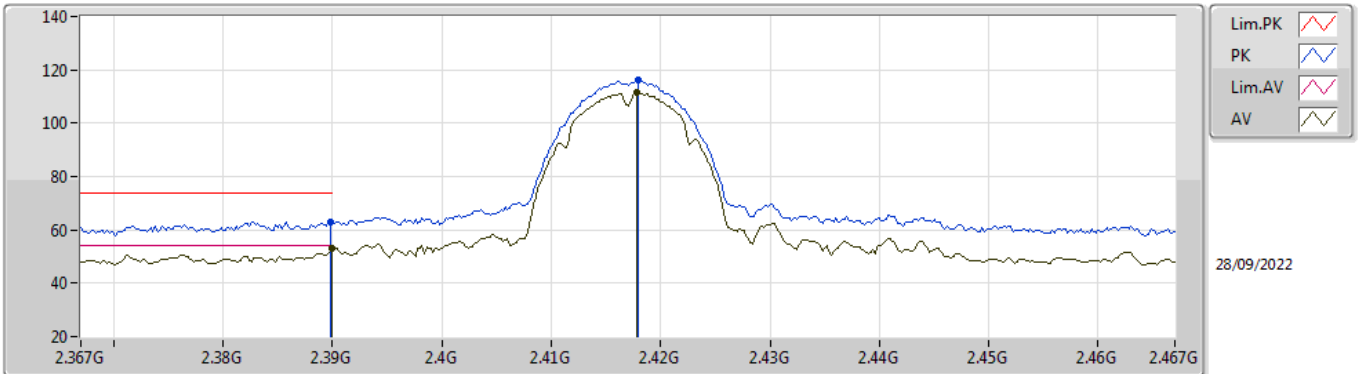


EUT_Z_2TX
Setting 81
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	56.31	74.00	-17.69	24.97	3	Vertical	174	2.52	-	27.55	3.79	-
AV	2.39G	44.85	54.00	-9.15	13.50	3	Vertical	174	2.52	-	27.56	3.79	-
PK	2.416G	110.51	Inf	-Inf	79.13	3	Vertical	174	2.52	-	27.57	3.81	-
AV	2.4162G	106.15	Inf	-Inf	74.77	3	Vertical	174	2.52	-	27.57	3.81	-

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

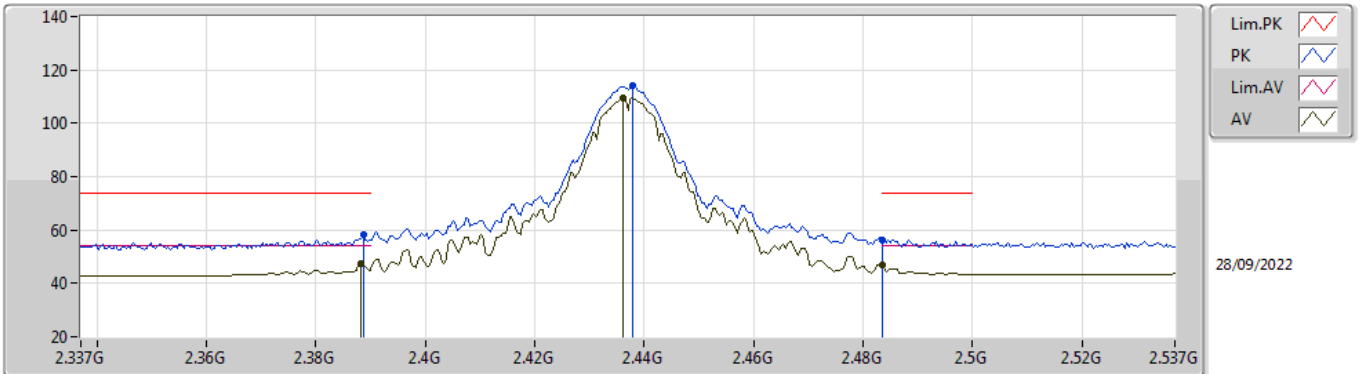


EUT_Z_2TX
Setting 81
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	63.06	74.00	-10.94	31.71	3	Horizontal	66	2.77	-	27.56	3.79	-
AV	2.39G	53.11	54.00	-0.89	21.76	3	Horizontal	66	2.77	-	27.56	3.79	-
PK	2.418G	116.06	Inf	-Inf	84.69	3	Horizontal	66	2.77	-	27.56	3.81	-
AV	2.4178G	111.44	Inf	-Inf	80.07	3	Horizontal	66	2.77	-	27.56	3.81	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

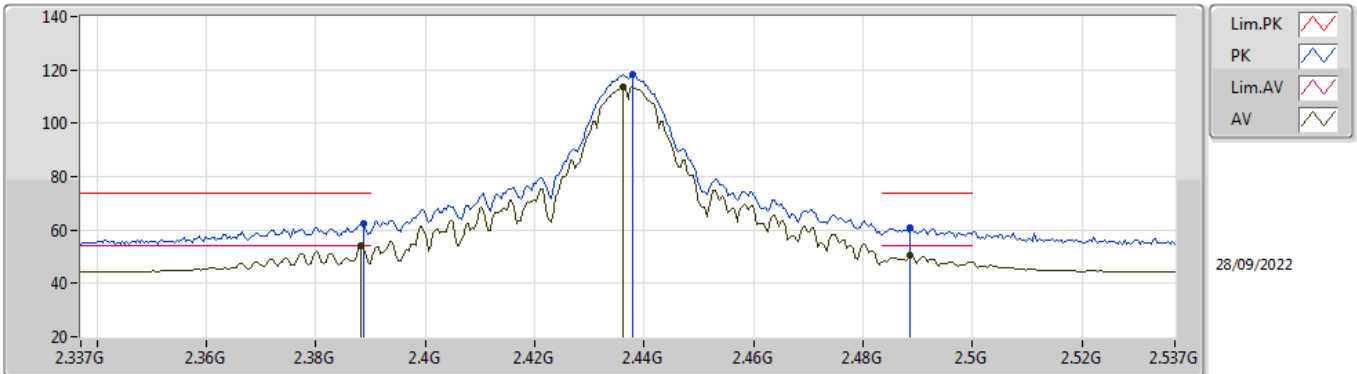


EUT_Z_2TX
Setting 95
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	58.07	74.00	-15.93	26.73	3	Vertical	167	2.80	-	27.55	3.79	-
AV	2.3882G	47.58	54.00	-6.42	16.24	3	Vertical	167	2.80	-	27.55	3.79	-
PK	2.4378G	114.02	Inf	-Inf	82.68	3	Vertical	167	2.80	-	27.52	3.82	-
AV	2.4362G	109.62	Inf	-Inf	78.27	3	Vertical	167	2.80	-	27.53	3.82	-
PK	2.4835G	56.41	74.00	-17.59	24.87	3	Vertical	167	2.80	-	27.70	3.84	-
AV	2.4835G	46.71	54.00	-7.29	15.17	3	Vertical	167	2.80	-	27.70	3.84	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

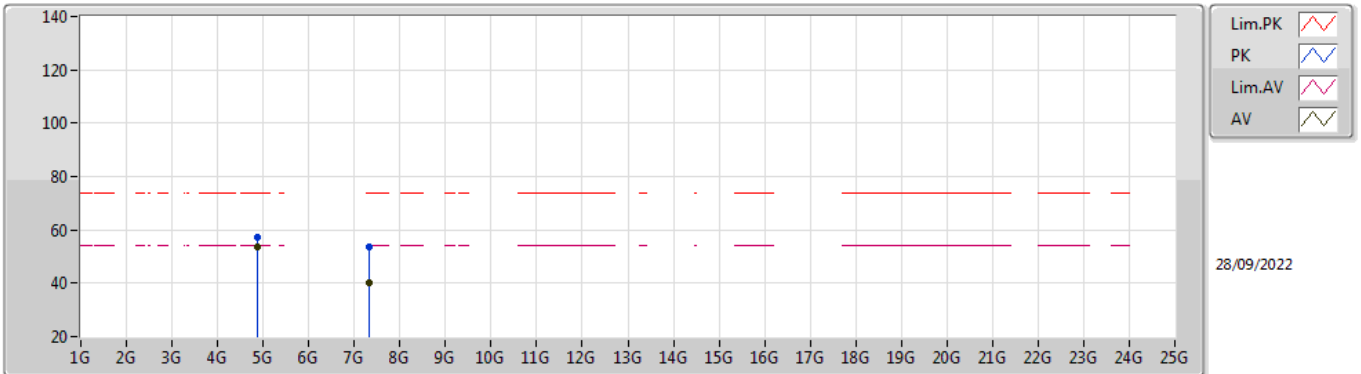


EUT_Z_2TX
Setting 95
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	62.51	74.00	-11.49	31.17	3	Horizontal	67	2.73	-	27.55	3.79	-
AV	2.3882G	53.92	54.00	-0.08	22.58	3	Horizontal	67	2.73	-	27.55	3.79	-
PK	2.4378G	118.22	Inf	-Inf	86.88	3	Horizontal	67	2.73	-	27.52	3.82	-
AV	2.4362G	113.84	Inf	-Inf	82.49	3	Horizontal	67	2.73	-	27.53	3.82	-
PK	2.4886G	60.76	74.00	-13.24	29.19	3	Horizontal	67	2.73	-	27.73	3.84	-
AV	2.4886G	50.45	54.00	-3.55	18.88	3	Horizontal	67	2.73	-	27.73	3.84	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

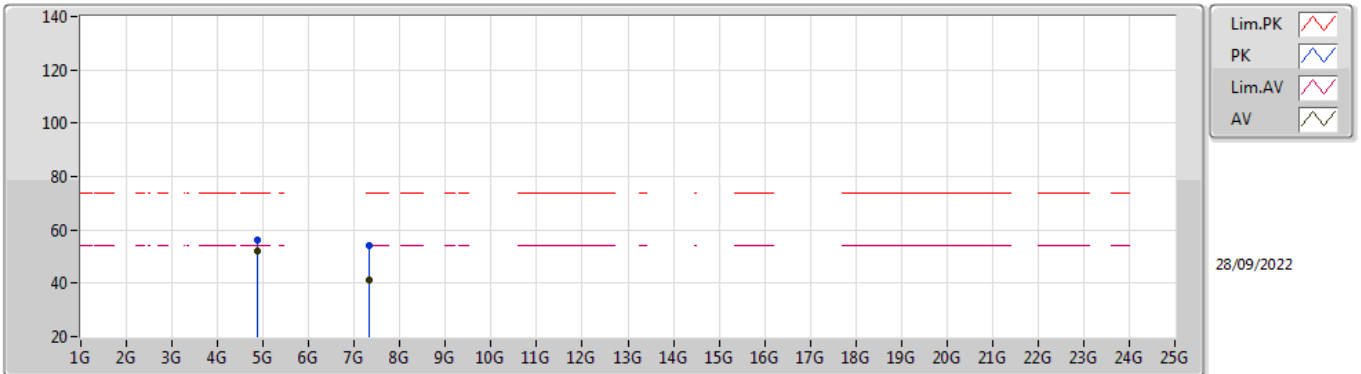


EUT Y_2TX
Setting 95
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8741G	57.20	74.00	-16.80	51.26	3	Vertical	168	1.80	-	32.55	6.27	32.88
AV	4.874G	53.54	54.00	-0.46	47.60	3	Vertical	168	1.80	-	32.55	6.27	32.88
PK	7.31518G	53.69	74.00	-20.31	41.94	3	Vertical	232	1.81	-	37.27	7.66	33.18
AV	7.31024G	40.20	54.00	-13.80	28.44	3	Vertical	232	1.81	-	37.28	7.66	33.18

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

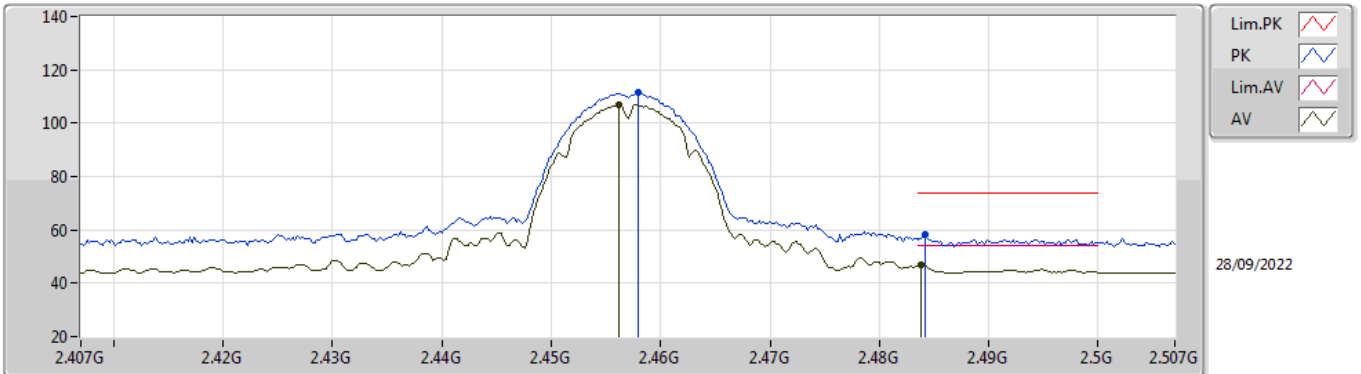


EUT_Y_2TX
Setting 95
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87402G	56.27	74.00	-17.73	50.33	3	Horizontal	182	1.78	-	32.55	6.27	32.88
AV	4.874G	51.84	54.00	-2.16	45.90	3	Horizontal	182	1.78	-	32.55	6.27	32.88
PK	7.31168G	54.30	74.00	-19.70	42.54	3	Horizontal	214	2.67	-	37.28	7.66	33.18
AV	7.31024G	41.18	54.00	-12.82	29.42	3	Horizontal	214	2.67	-	37.28	7.66	33.18

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

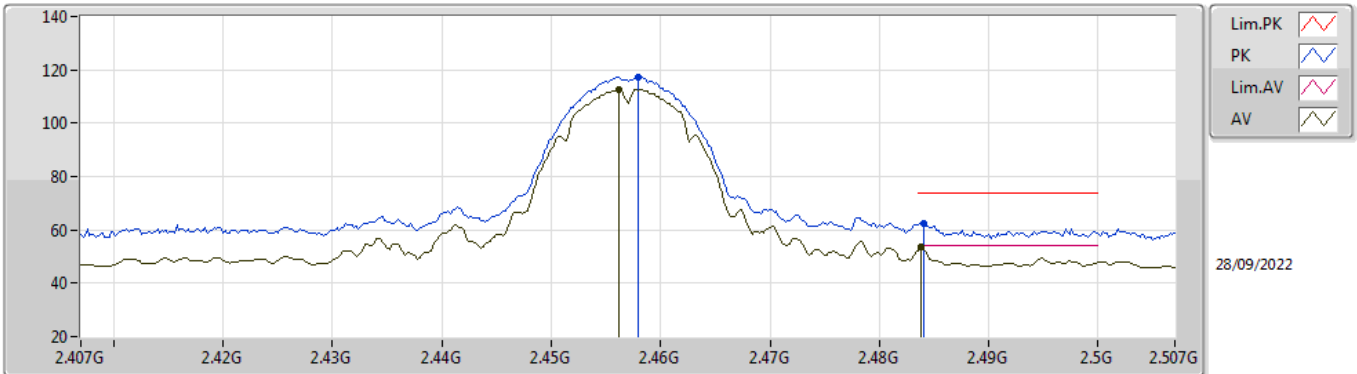


EUT_Z_2TX
Setting 88
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.458G	111.42	Inf	-Inf	80.04	3	Vertical	323	3.00	-	27.55	3.83	-	
AV	2.4562G	106.94	Inf	-Inf	75.57	3	Vertical	323	3.00	-	27.54	3.83	-	
PK	2.4842G	58.14	74.00	-15.86	26.59	3	Vertical	323	3.00	-	27.71	3.84	-	
AV	2.4838G	46.89	54.00	-7.11	15.35	3	Vertical	323	3.00	-	27.70	3.84	-	

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

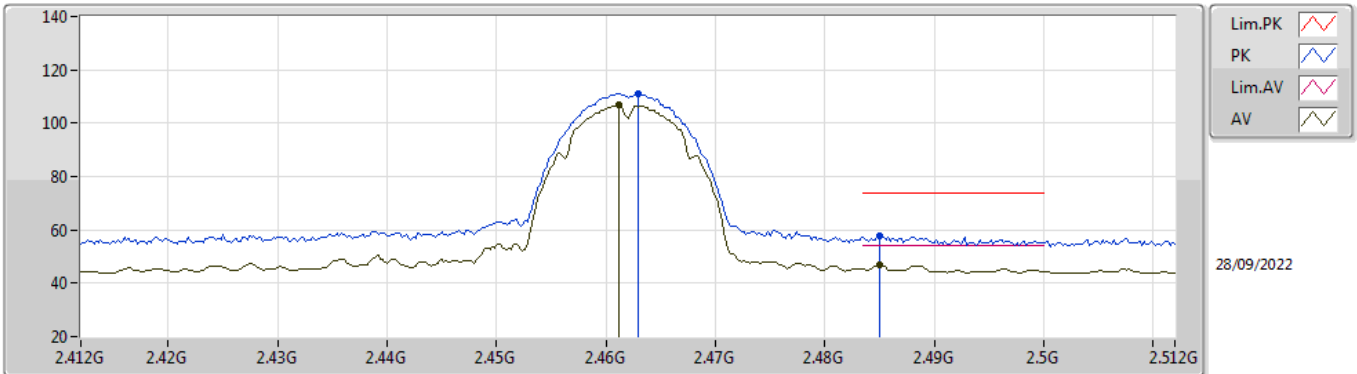


EUT_Z_2TX
Setting 88
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.458G	117.37	Inf	-Inf	85.99	3	Horizontal	114	2.26	-	27.55	3.83	-
AV	2.4562G	112.81	Inf	-Inf	81.44	3	Horizontal	114	2.26	-	27.54	3.83	-
PK	2.484G	62.60	74.00	-11.40	31.06	3	Horizontal	114	2.26	-	27.70	3.84	-
AV	2.4838G	53.76	54.00	-0.24	22.22	3	Horizontal	114	2.26	-	27.70	3.84	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

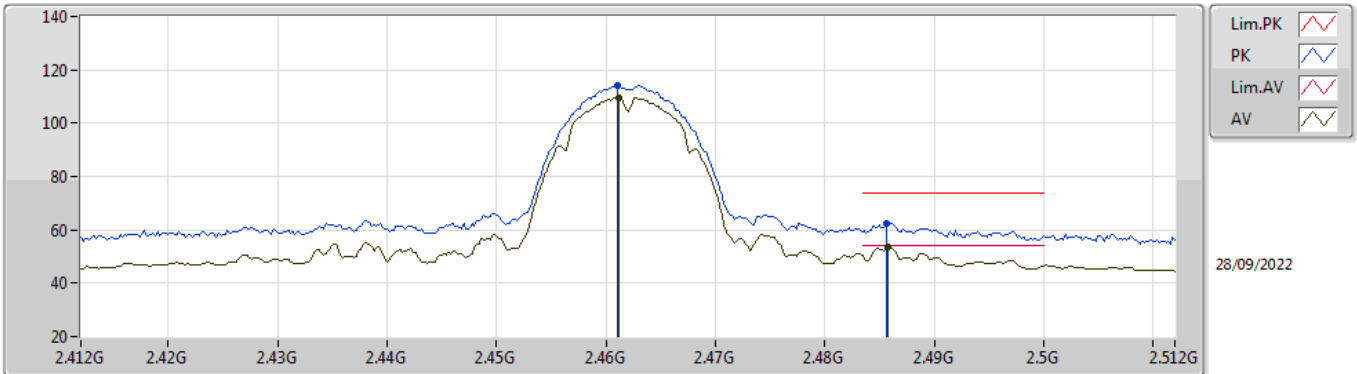


EUT_Z_2TX
Setting 82
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	111.21	Inf	-Inf	79.80	3	Vertical	165	2.76	-	27.58	3.83	-
AV	2.4612G	106.85	Inf	-Inf	75.45	3	Vertical	165	2.76	-	27.57	3.83	-
PK	2.485G	57.98	74.00	-16.02	26.43	3	Vertical	165	2.76	-	27.71	3.84	-
AV	2.485G	46.65	54.00	-7.35	15.10	3	Vertical	165	2.76	-	27.71	3.84	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

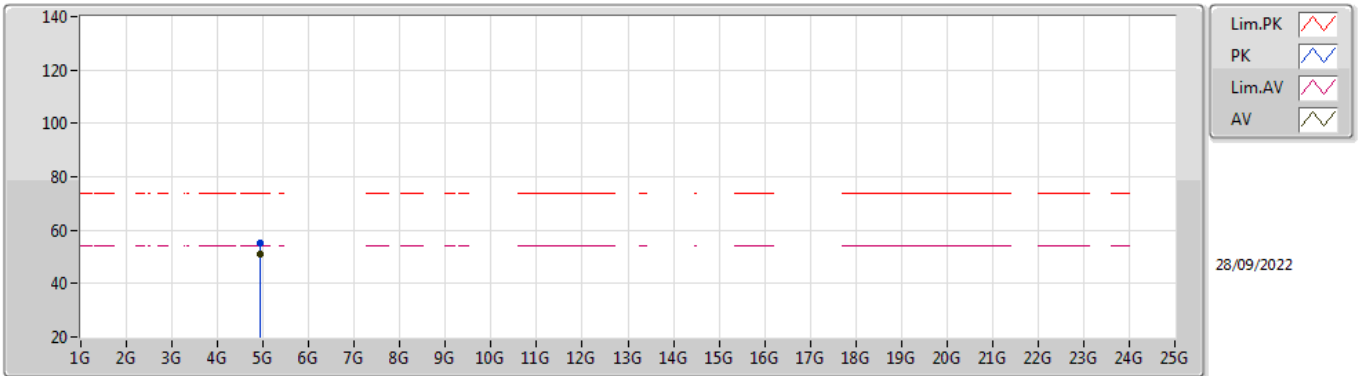


EUT_Z_2TX
Setting 82
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	114.12	Inf	-Inf	82.72	3	Horizontal	196	1.19	-	27.57	3.83	-
AV	2.4612G	109.73	Inf	-Inf	78.33	3	Horizontal	196	1.19	-	27.57	3.83	-
PK	2.4856G	62.58	74.00	-11.42	31.03	3	Horizontal	196	1.19	-	27.71	3.84	-
AV	2.4858G	53.76	54.00	-0.24	22.21	3	Horizontal	196	1.19	-	27.71	3.84	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

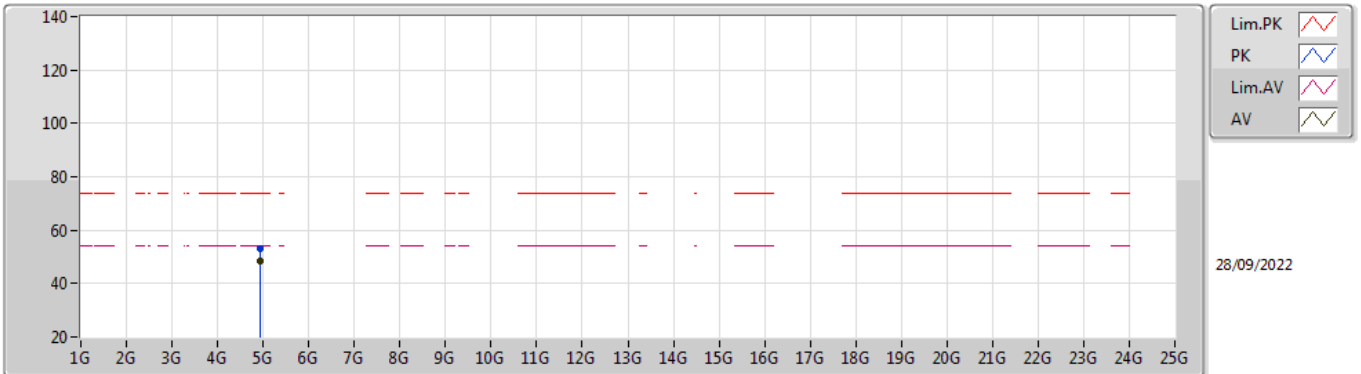


EUT Y_2TX
Setting 82
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92398G	55.14	74.00	-18.86	49.04	3	Vertical	167	1.80	-	32.65	6.32	32.87
AV	4.92398G	50.90	54.00	-3.10	44.80	3	Vertical	167	1.80	-	32.65	6.32	32.87

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

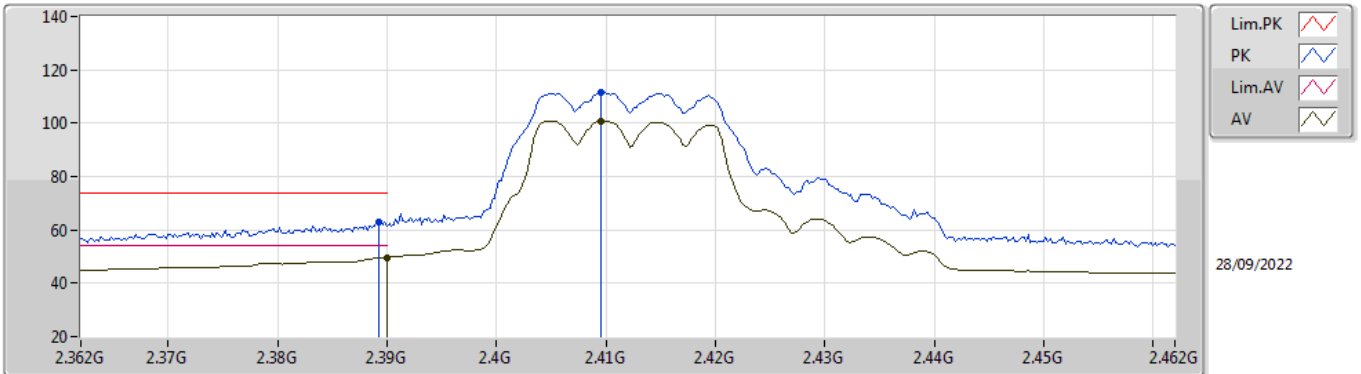


EUT Y_2TX
Setting 82
01-A-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92402G	53.11	74.00	-20.89	47.01	3	Horizontal	166	2.89	-	32.65	6.32	32.87
AV	4.924G	48.42	54.00	-5.58	42.32	3	Horizontal	166	2.89	-	32.65	6.32	32.87

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

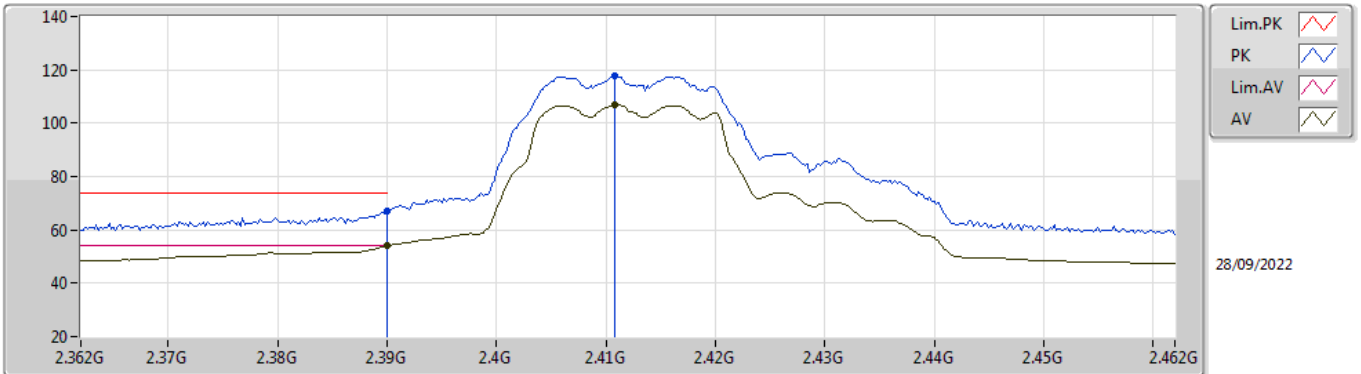


EUT_Z_2TX
Setting 83
01-A-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	63.09	74.00	-10.91	31.74	3	Vertical	169	2.91	-	27.56	3.79	-
AV	2.39G	49.62	54.00	-4.38	18.27	3	Vertical	169	2.91	-	27.56	3.79	-
PK	2.4096G	111.78	Inf	-Inf	80.40	3	Vertical	169	2.91	-	27.58	3.80	-
AV	2.4096G	100.87	Inf	-Inf	69.49	3	Vertical	169	2.91	-	27.58	3.80	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

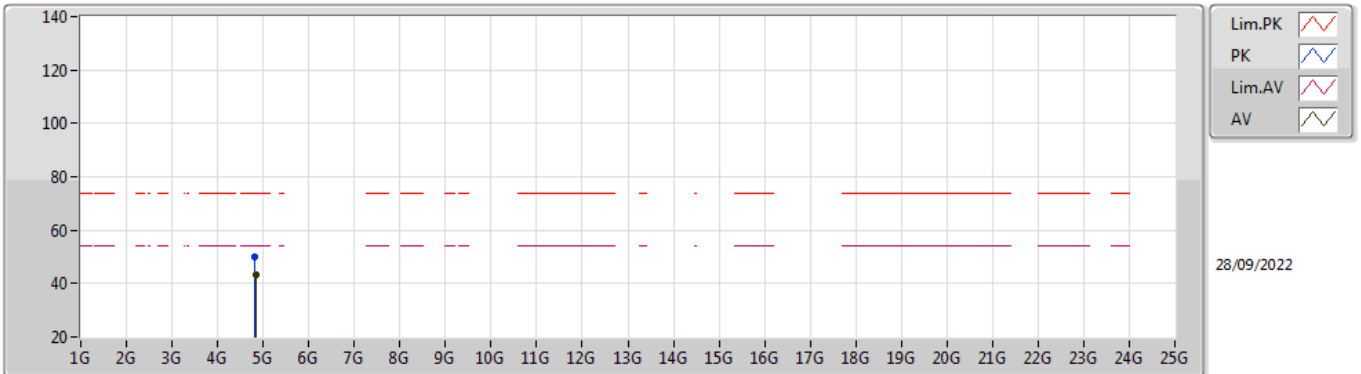


EUT_Z_2TX
Setting 83
01-A-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	66.98	74.00	-7.02	35.63	3	Horizontal	70	2.76	-	27.56	3.79	-
AV	2.39G	53.95	54.00	-0.05	22.60	3	Horizontal	70	2.76	-	27.56	3.79	-
PK	2.4108G	117.66	Inf	-Inf	86.27	3	Horizontal	70	2.76	-	27.58	3.81	-
AV	2.4108G	106.85	Inf	-Inf	75.46	3	Horizontal	70	2.76	-	27.58	3.81	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

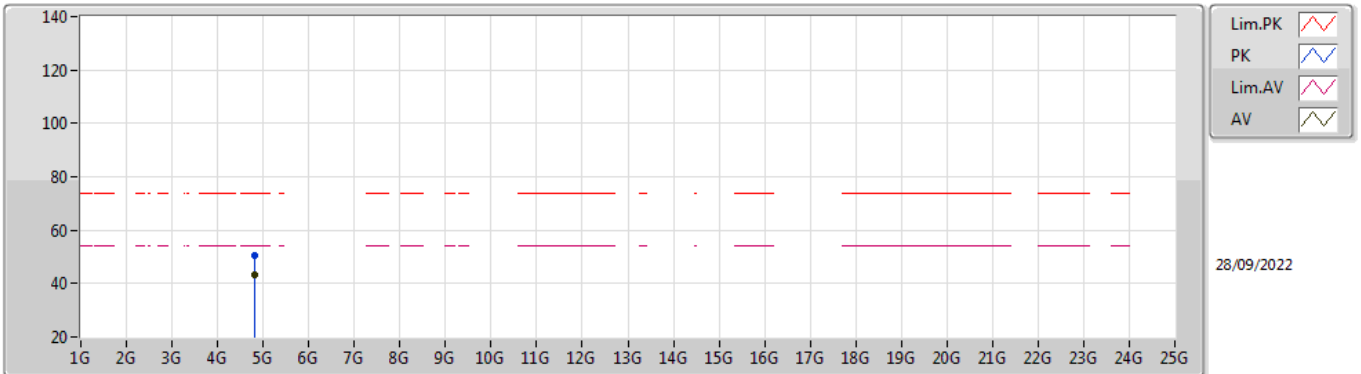


EUT Y_2TX
Setting 83
01-A-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82552G	50.20	74.00	-23.80	44.40	3	Vertical	218	1.61	-	32.45	6.23	32.88
AV	4.82896G	43.46	54.00	-10.54	37.65	3	Vertical	218	1.61	-	32.46	6.23	32.88

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

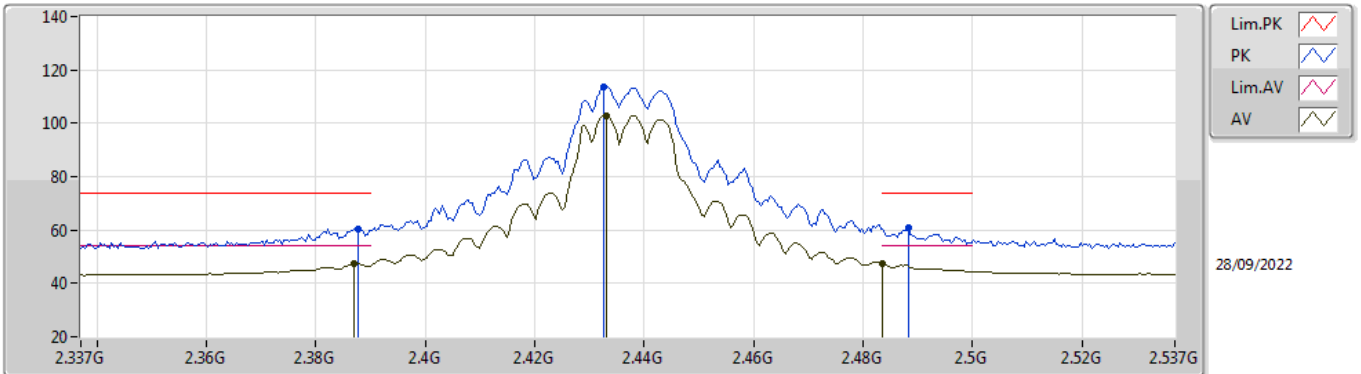


EUT Y_2TX
Setting 83
01-A-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8261G	50.77	74.00	-23.23	44.97	3	Horizontal	214	2.15	-	32.45	6.23	32.88
AV	4.82812G	43.41	54.00	-10.59	37.60	3	Horizontal	214	2.15	-	32.46	6.23	32.88

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

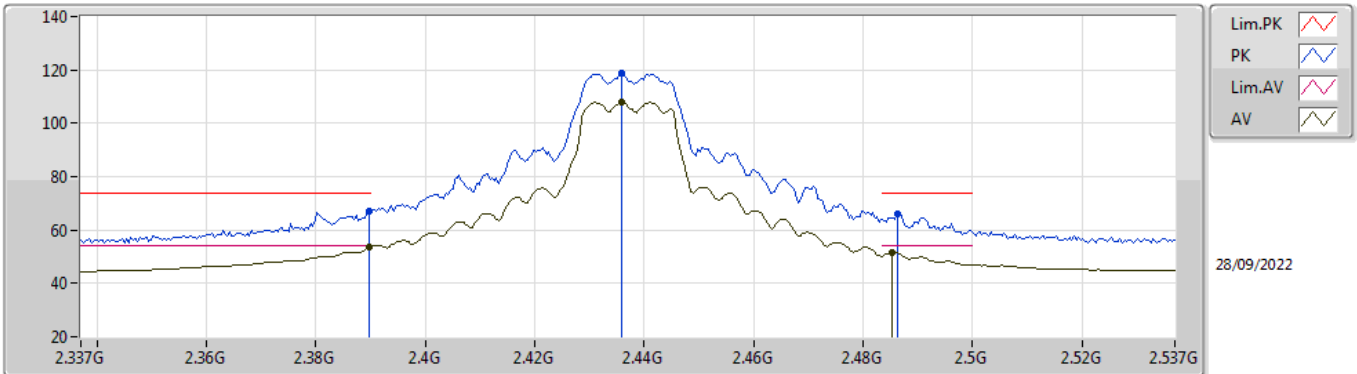


EUT_Z_2TX
Setting 92
01-A-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	60.53	74.00	-13.47	29.19	3	Vertical	326	3.00	-	27.55	3.79	-
AV	2.387G	47.32	54.00	-6.68	15.98	3	Vertical	326	3.00	-	27.55	3.79	-
PK	2.4326G	113.82	Inf	-Inf	82.47	3	Vertical	326	3.00	-	27.53	3.82	-
AV	2.433G	102.78	Inf	-Inf	71.43	3	Vertical	326	3.00	-	27.53	3.82	-
PK	2.4882G	60.65	74.00	-13.35	29.08	3	Vertical	326	3.00	-	27.73	3.84	-
AV	2.4835G	47.56	54.00	-6.44	16.02	3	Vertical	326	3.00	-	27.70	3.84	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

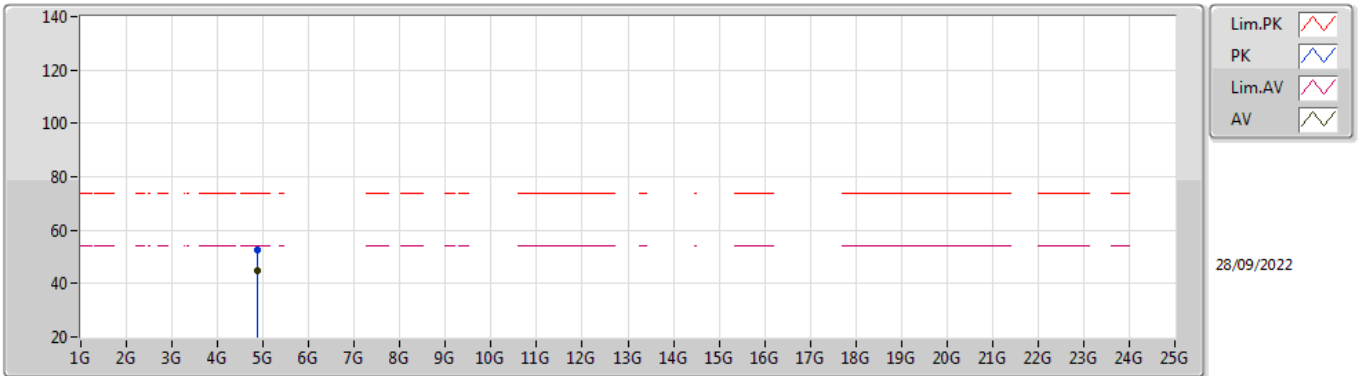


EUT_Z_2TX
Setting 92
01-A-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	67.13	74.00	-6.87	35.78	3	Horizontal	70	2.71	-	27.56	3.79	-
AV	2.3898G	53.51	54.00	-0.49	22.16	3	Horizontal	70	2.71	-	27.56	3.79	-
PK	2.4358G	118.55	Inf	-Inf	87.20	3	Horizontal	70	2.71	-	27.53	3.82	-
AV	2.4358G	107.75	Inf	-Inf	76.40	3	Horizontal	70	2.71	-	27.53	3.82	-
PK	2.4862G	66.04	74.00	-7.96	34.48	3	Horizontal	70	2.71	-	27.72	3.84	-
AV	2.4854G	51.60	54.00	-2.40	20.05	3	Horizontal	70	2.71	-	27.71	3.84	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

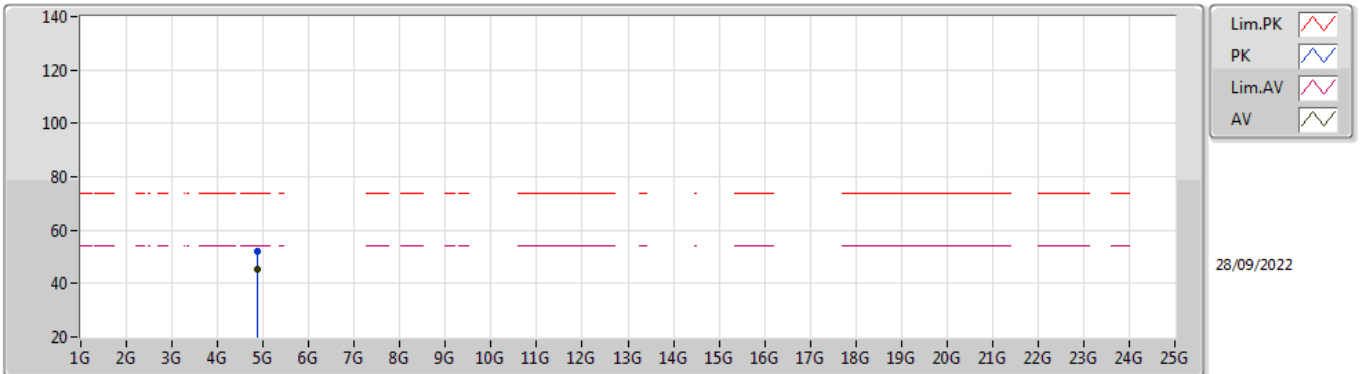


EUT Y_2TX
Setting 92
01-A-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.874G	52.60	74.00	-21.40	46.66	3	Vertical	166	1.80	-	32.55	6.27	32.88
AV	4.87396G	44.72	54.00	-9.28	38.78	3	Vertical	166	1.80	-	32.55	6.27	32.88

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

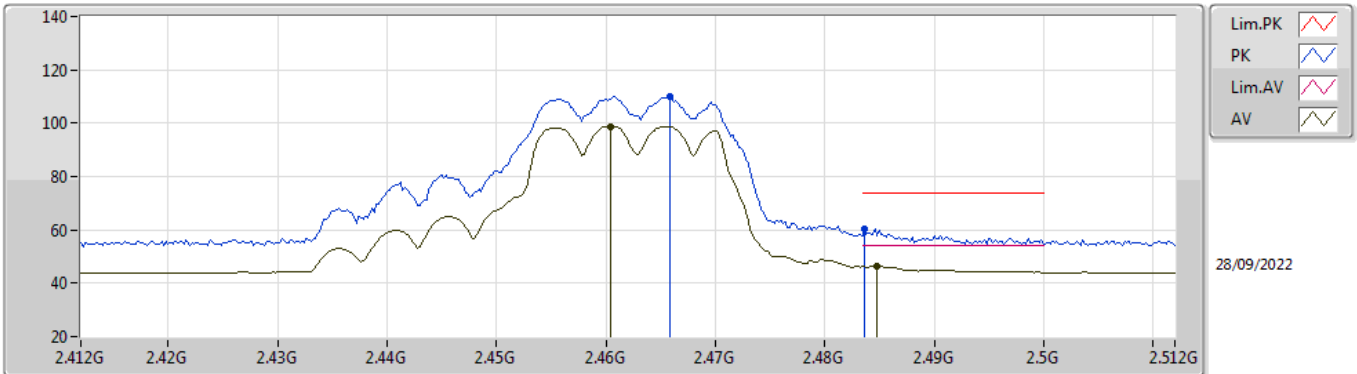


EUT Y_2TX
Setting 92
01-A-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87406G	51.98	74.00	-22.02	46.04	3	Horizontal	301	1.78	-	32.55	6.27	32.88
AV	4.874G	45.39	54.00	-8.61	39.45	3	Horizontal	301	1.78	-	32.55	6.27	32.88

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

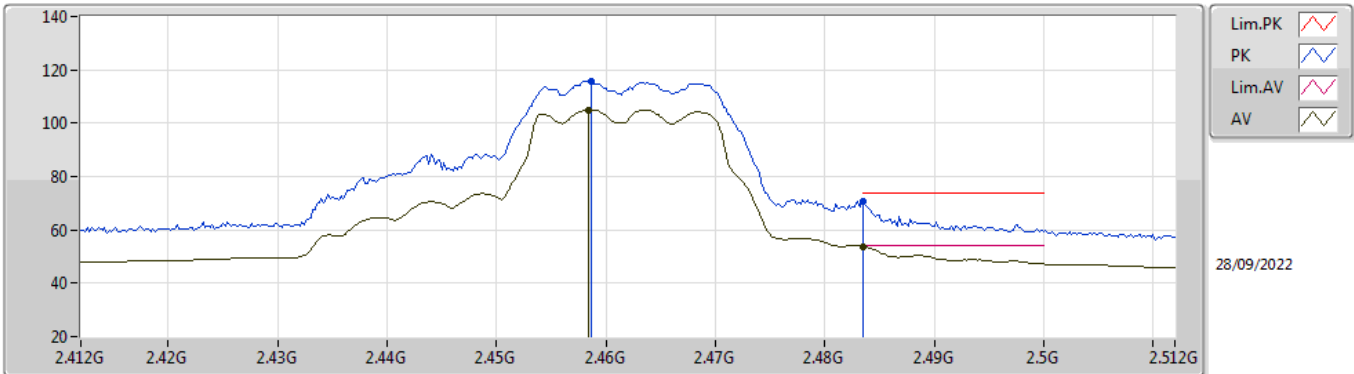


EUT_Z_2TX
Setting 83
01-A-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4658G	109.98	Inf	-Inf	78.56	3	Vertical	307	2.64	-	27.59	3.83	-
AV	2.4604G	98.80	Inf	-Inf	67.41	3	Vertical	307	2.64	-	27.56	3.83	-
PK	2.4836G	60.39	74.00	-13.61	28.85	3	Vertical	307	2.64	-	27.70	3.84	-
AV	2.4848G	46.43	54.00	-7.57	14.88	3	Vertical	307	2.64	-	27.71	3.84	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

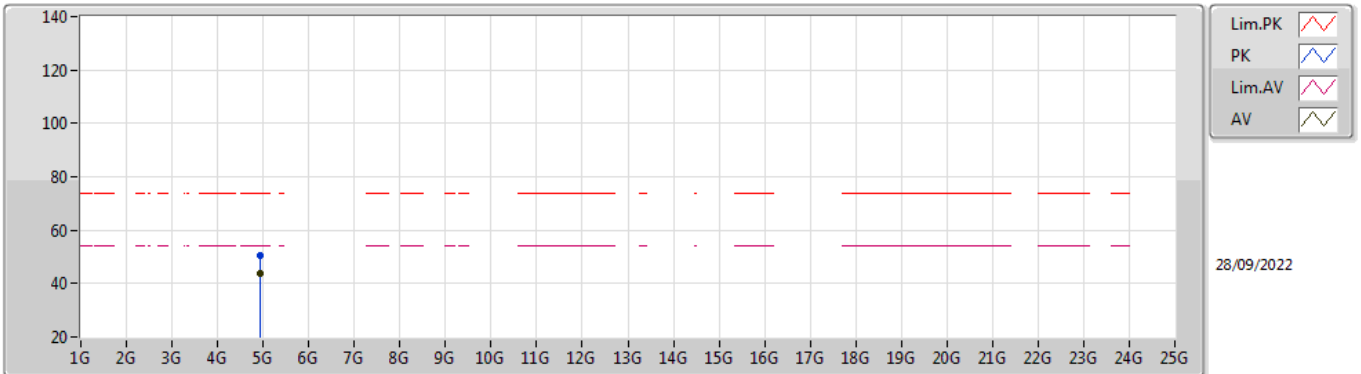


EUT_Z_2TX
Setting 83
01-A-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4586G	115.51	Inf	-Inf	84.13	3	Horizontal	68	2.67	-	27.55	3.83	-
AV	2.4584G	105.06	Inf	-Inf	73.68	3	Horizontal	68	2.67	-	27.55	3.83	-
PK	2.4835G	70.94	74.00	-3.06	39.40	3	Horizontal	68	2.67	-	27.70	3.84	-
AV	2.4835G	53.85	54.00	-0.15	22.31	3	Horizontal	68	2.67	-	27.70	3.84	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

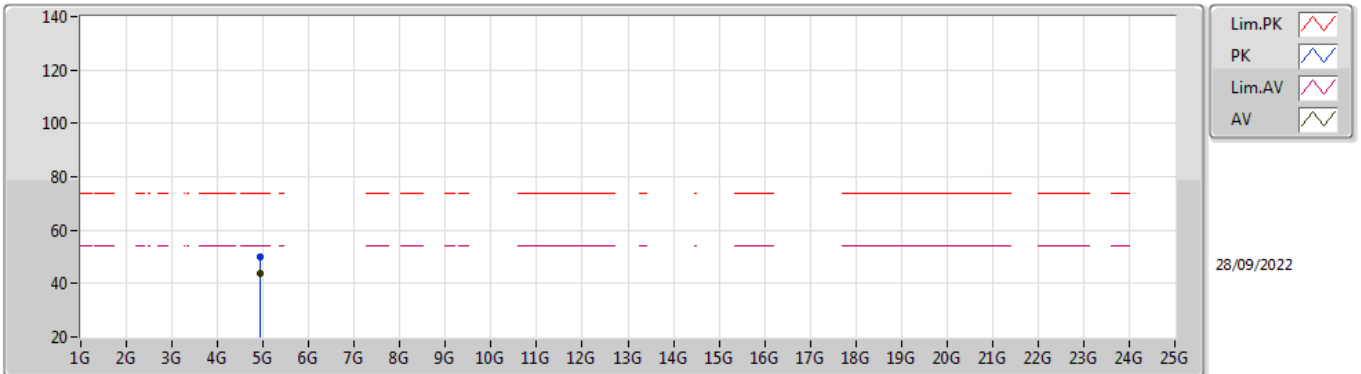


EUT Y_2TX
Setting 83
01-A-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92782G	50.29	74.00	-23.71	44.16	3	Vertical	248	2.38	-	32.66	6.33	32.86
AV	4.9282G	43.73	54.00	-10.27	37.60	3	Vertical	248	2.38	-	32.66	6.33	32.86

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

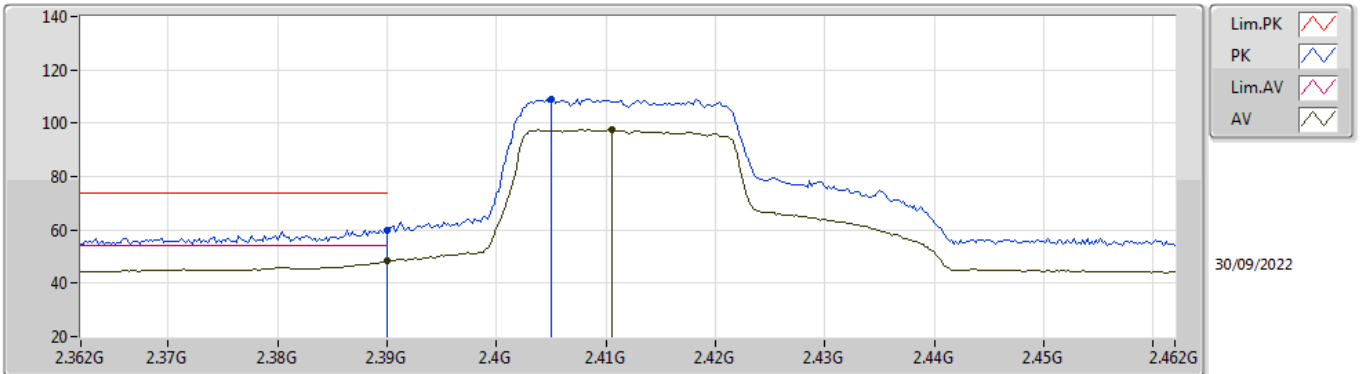


EUT Y_2TX
Setting 83
01-A-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92702G	50.15	74.00	-23.85	44.03	3	Horizontal	232	2.82	-	32.65	6.33	32.86
AV	4.92898G	43.73	54.00	-10.27	37.60	3	Horizontal	232	2.82	-	32.66	6.33	32.86

802.11ax HEW20_Nss2,(MCS0)_2TX

2412MHz_TX

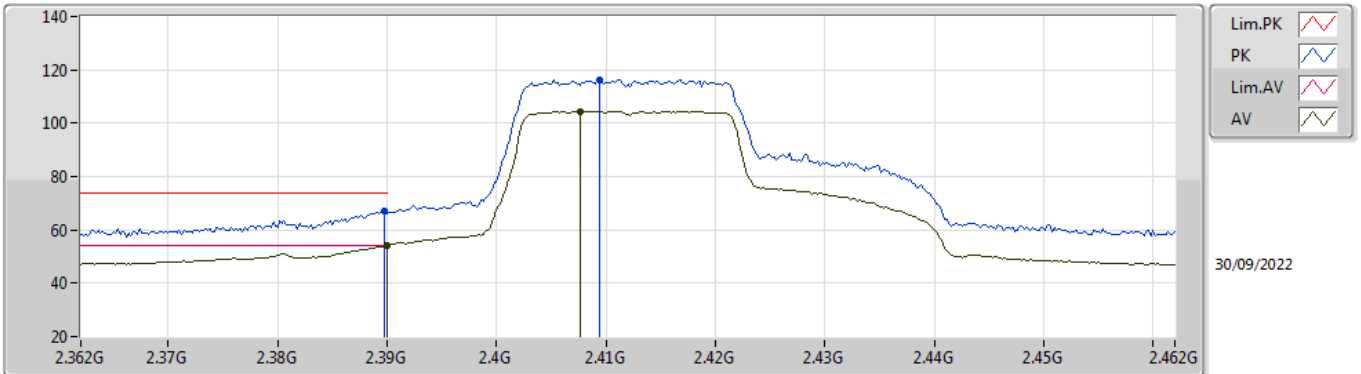


EUT_Z_2TX
Setting 79
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	60.02	74.00	-13.98	28.67	3	Vertical	306	2.91	-	27.56	3.79	-
AV	2.39G	48.37	54.00	-5.63	17.02	3	Vertical	306	2.91	-	27.56	3.79	-
PK	2.405G	109.15	Inf	-Inf	77.76	3	Vertical	306	2.91	-	27.59	3.80	-
AV	2.4106G	97.47	Inf	-Inf	66.08	3	Vertical	306	2.91	-	27.58	3.81	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2412MHz_TX

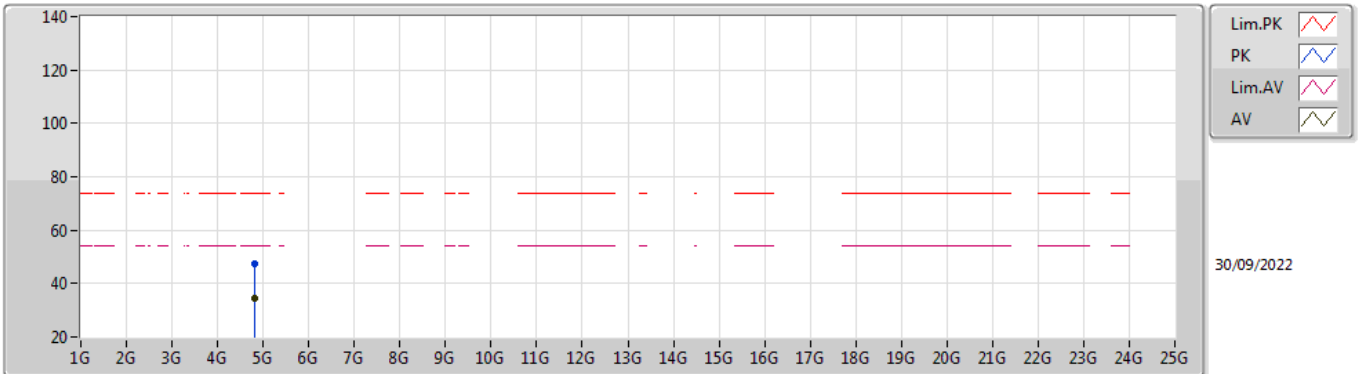


EUT_Z_2TX
Setting 79
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3898G	67.17	74.00	-6.83	35.82	3	Horizontal	65	2.75	-	27.56	3.79	-	
AV	2.39G	53.92	54.00	-0.08	22.57	3	Horizontal	65	2.75	-	27.56	3.79	-	
PK	2.4094G	116.37	Inf	-Inf	84.99	3	Horizontal	65	2.75	-	27.58	3.80	-	
AV	2.4076G	104.42	Inf	-Inf	73.04	3	Horizontal	65	2.75	-	27.58	3.80	-	

802.11ax HEW20_Nss2,(MCS0)_2TX

2412MHz_TX

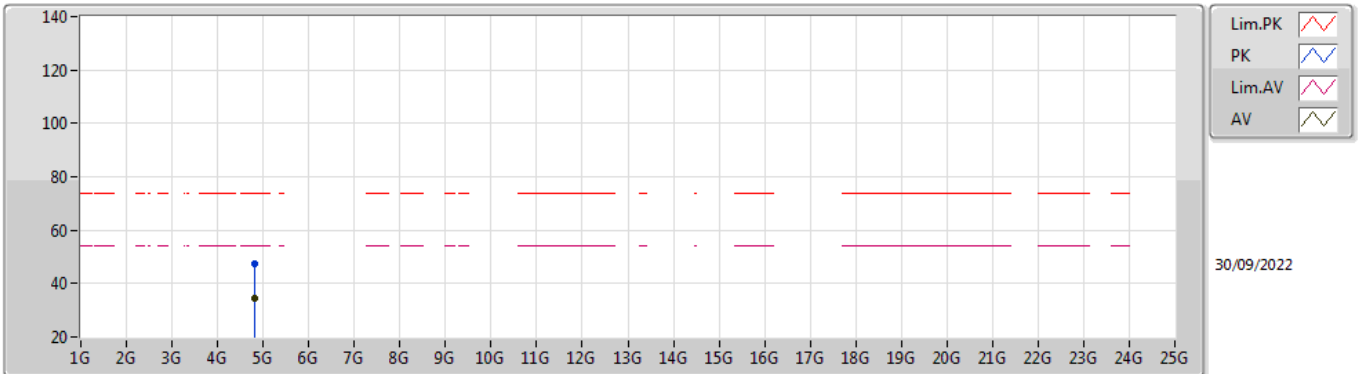


EUT Y_2TX
Setting 79
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8218G	47.48	74.00	-26.52	41.71	3	Vertical	332	1.73	-	32.44	6.22	32.89
AV	4.82562G	34.37	54.00	-19.63	28.57	3	Vertical	332	1.73	-	32.45	6.23	32.88

802.11ax HEW20_Nss2,(MCS0)_2TX

2412MHz_TX

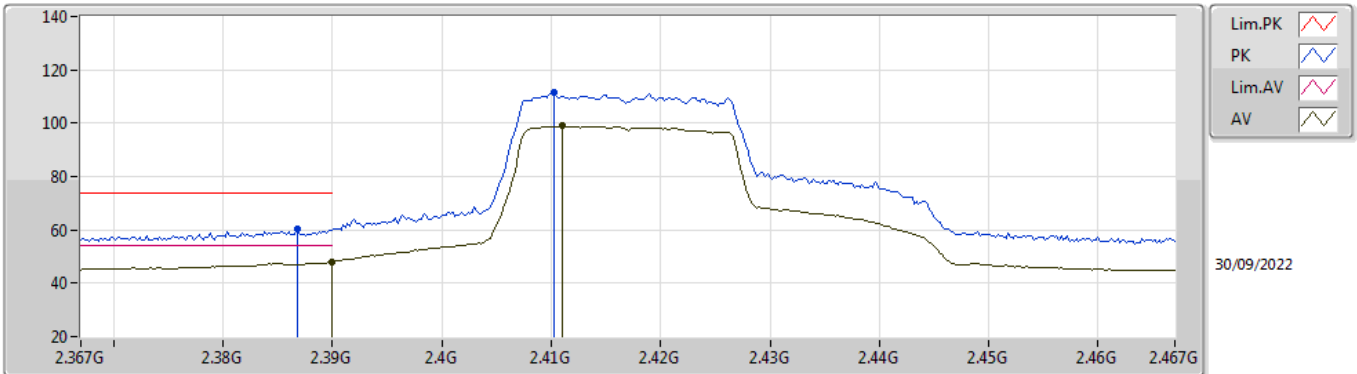


EUT Y_2TX
Setting 79
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82012G	47.64	74.00	-26.36	41.87	3	Horizontal	295	1.26	-	32.44	6.22	32.89
AV	4.82632G	34.42	54.00	-19.58	28.62	3	Horizontal	295	1.26	-	32.45	6.23	32.88

802.11ax HEW20_Nss2,(MCS0)_2TX

2417MHz_TX

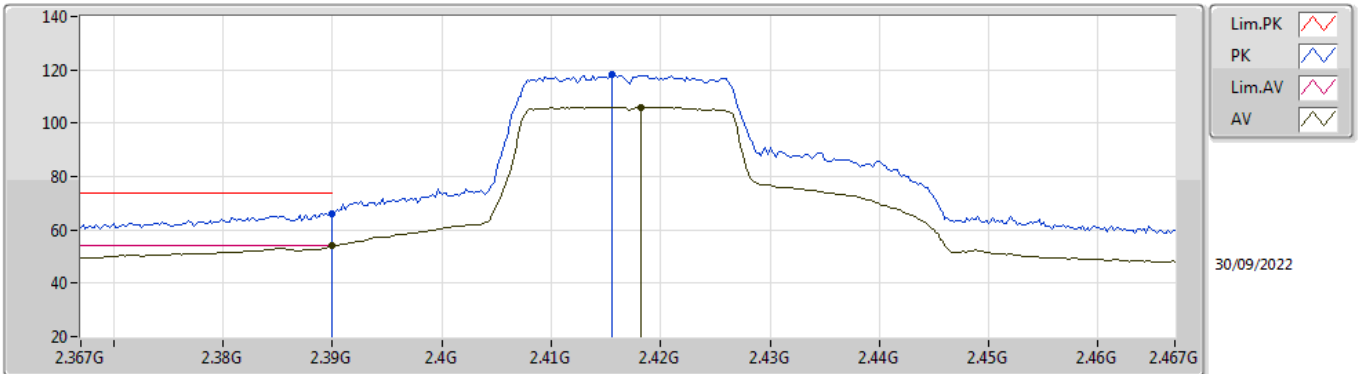


EUT_Z_2TX
Setting 84
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3868G	60.11	74.00	-13.89	28.77	3	Vertical	306	2.88	-	27.55	3.79	-
AV	2.39G	47.87	54.00	-6.13	16.52	3	Vertical	306	2.88	-	27.56	3.79	-
PK	2.4102G	111.33	Inf	-Inf	79.94	3	Vertical	306	2.88	-	27.58	3.81	-
AV	2.411G	99.03	Inf	-Inf	67.64	3	Vertical	306	2.88	-	27.58	3.81	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2417MHz_TX

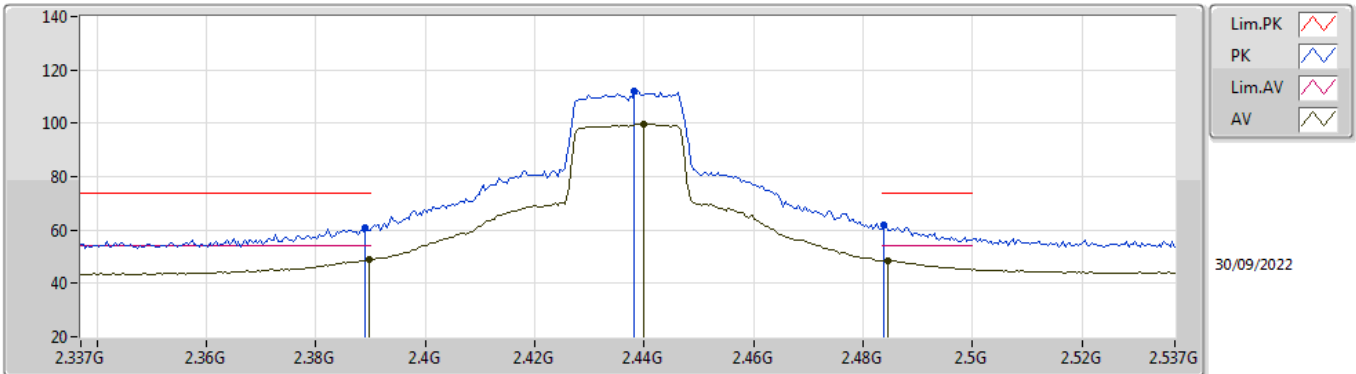


EUT_Z_2TX
Setting 84
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	66.09	74.00	-7.91	34.74	3	Horizontal	61	2.49	-	27.56	3.79	-
AV	2.39G	53.98	54.00	-0.02	22.63	3	Horizontal	61	2.49	-	27.56	3.79	-
PK	2.4156G	118.48	Inf	-Inf	87.10	3	Horizontal	61	2.49	-	27.57	3.81	-
AV	2.4182G	106.08	Inf	-Inf	74.71	3	Horizontal	61	2.49	-	27.56	3.81	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2437MHz_TX

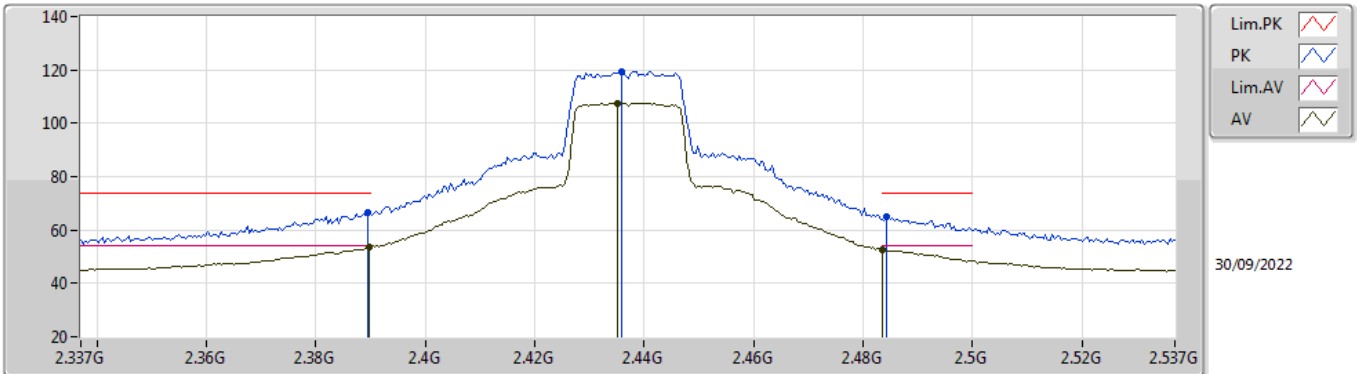


EUT_Z_2TX
Setting 91
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	61.00	74.00	-13.00	29.65	3	Vertical	300	2.54	-	27.56	3.79	-
AV	2.3898G	48.92	54.00	-5.08	17.57	3	Vertical	300	2.54	-	27.56	3.79	-
PK	2.4382G	112.13	Inf	-Inf	80.79	3	Vertical	300	2.54	-	27.52	3.82	-
AV	2.4398G	99.66	Inf	-Inf	68.32	3	Vertical	300	2.54	-	27.52	3.82	-
PK	2.4838G	62.00	74.00	-12.00	30.46	3	Vertical	300	2.54	-	27.70	3.84	-
AV	2.4846G	48.61	54.00	-5.39	17.06	3	Vertical	300	2.54	-	27.71	3.84	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2437MHz_TX

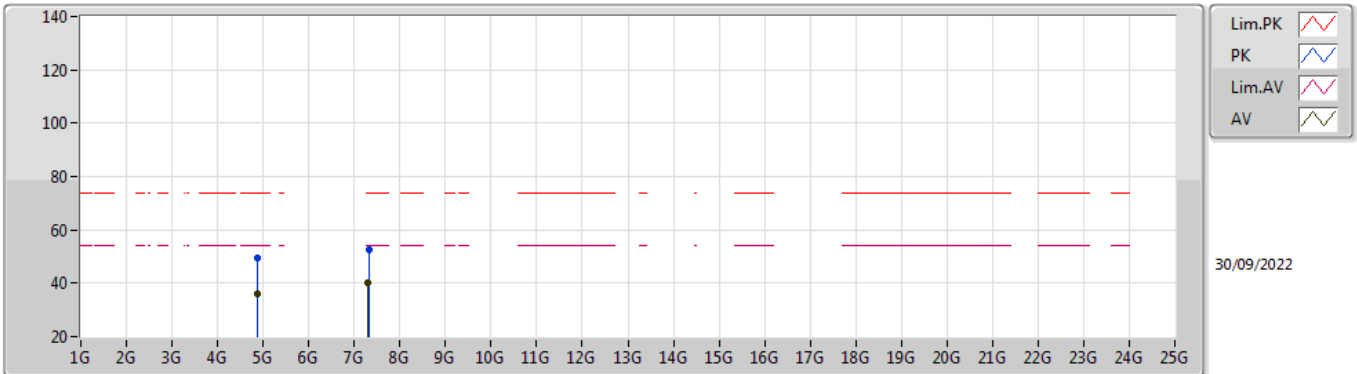


EUT_Z_2TX
Setting 91
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	66.75	74.00	-7.25	35.40	3	Horizontal	65	2.72	-	27.56	3.79	-
AV	2.3898G	53.66	54.00	-0.34	22.31	3	Horizontal	65	2.72	-	27.56	3.79	-
PK	2.4358G	119.52	Inf	-Inf	88.17	3	Horizontal	65	2.72	-	27.53	3.82	-
AV	2.435G	107.59	Inf	-Inf	76.24	3	Horizontal	65	2.72	-	27.53	3.82	-
PK	2.4842G	64.94	74.00	-9.06	33.39	3	Horizontal	65	2.72	-	27.71	3.84	-
AV	2.4835G	52.42	54.00	-1.58	20.88	3	Horizontal	65	2.72	-	27.70	3.84	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2437MHz_TX

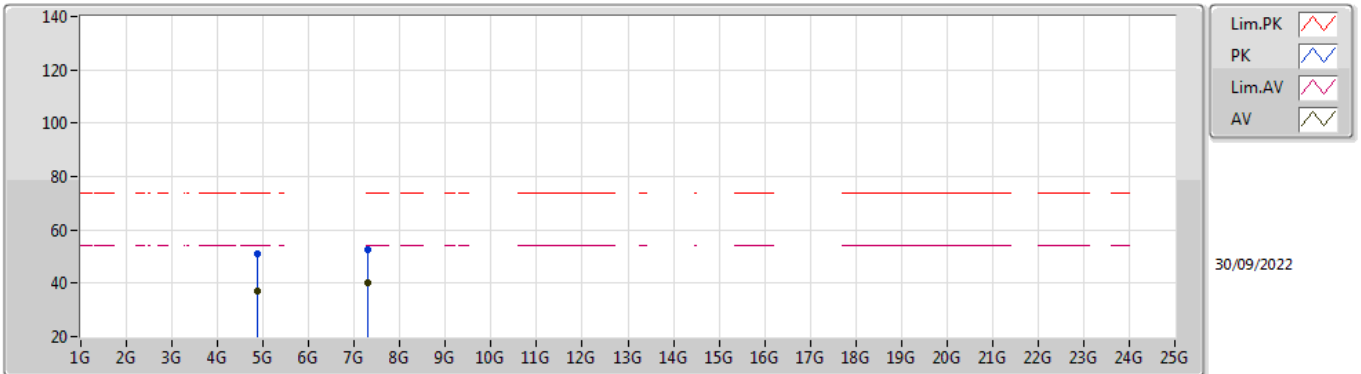


EUT_Y_2TX
Setting 91
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8734G	49.73	74.00	-24.27	43.79	3	Vertical	79	2.24	-	32.55	6.27	32.88
AV	4.8719G	36.18	54.00	-17.82	30.25	3	Vertical	79	2.24	-	32.54	6.27	32.88
PK	7.31094G	52.74	74.00	-21.26	40.98	3	Vertical	111	1.59	-	37.28	7.66	33.18
AV	7.3014G	40.20	54.00	-13.80	28.43	3	Vertical	111	1.59	-	37.30	7.65	33.18

802.11ax HEW20_Nss2,(MCS0)_2TX

2437MHz_TX

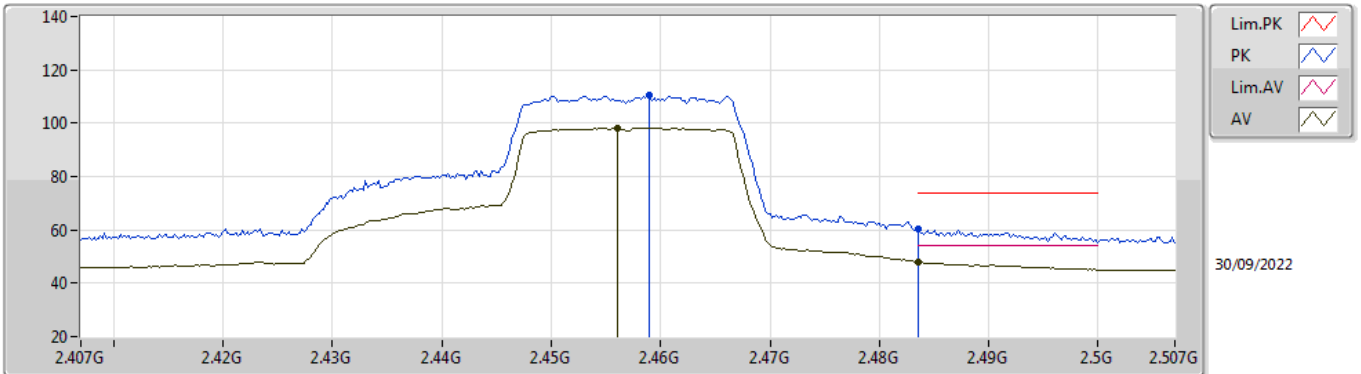


EUT_V_2TX
Setting 91
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8791G	50.81	74.00	-23.19	44.84	3	Horizontal	112	2.34	-	32.56	6.28	32.87
AV	4.8749G	37.20	54.00	-16.80	31.26	3	Horizontal	112	2.34	-	32.55	6.27	32.88
PK	7.30536G	52.56	74.00	-21.44	40.80	3	Horizontal	63	1.21	-	37.29	7.65	33.18
AV	7.30434G	39.94	54.00	-14.06	28.18	3	Horizontal	63	1.21	-	37.29	7.65	33.18

802.11ax HEW20_Nss2,(MCS0)_2TX

2457MHz_TX

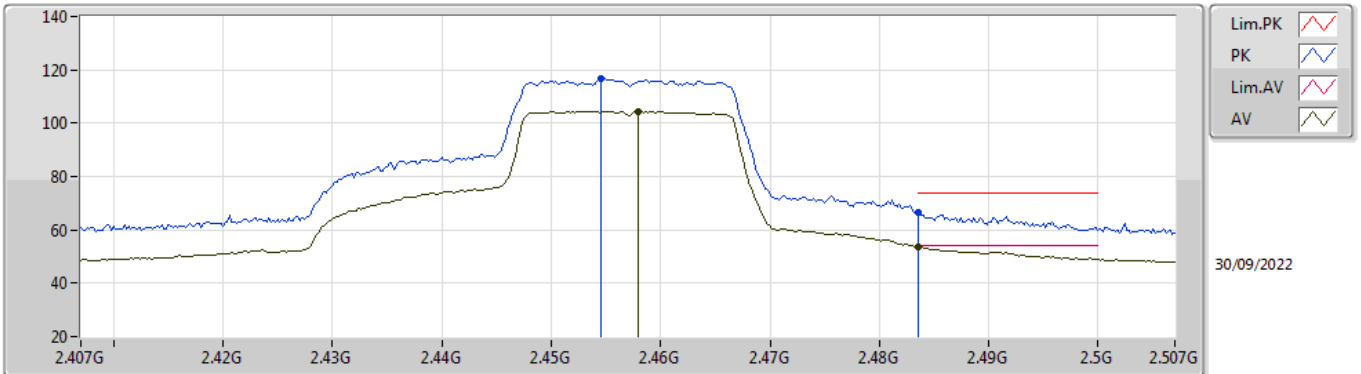


EUT_Z_2TX
Setting 85
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.459G	110.62	Inf	-Inf	79.24	3	Vertical	301	2.81	-	27.55	3.83	-
AV	2.456G	98.29	Inf	-Inf	66.92	3	Vertical	301	2.81	-	27.54	3.83	-
PK	2.4836G	60.31	74.00	-13.69	28.77	3	Vertical	301	2.81	-	27.70	3.84	-
AV	2.4835G	47.88	54.00	-6.12	16.34	3	Vertical	301	2.81	-	27.70	3.84	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2457MHz_TX

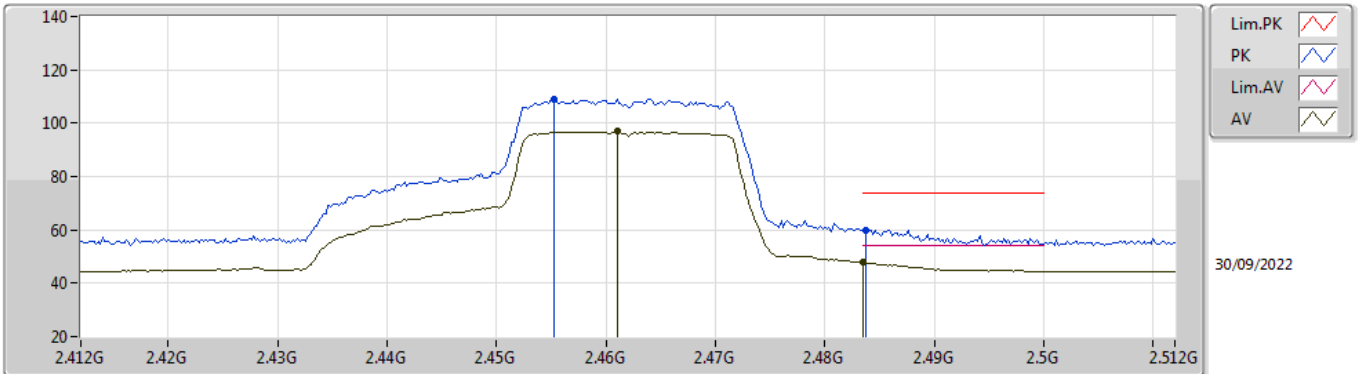


EUT_Z_2TX
Setting 85
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4546G	116.69	Inf	-Inf	85.33	3	Horizontal	116	1.00	-	27.53	3.83	-
AV	2.458G	104.49	Inf	-Inf	73.11	3	Horizontal	116	1.00	-	27.55	3.83	-
PK	2.4836G	66.60	74.00	-7.40	35.06	3	Horizontal	116	1.00	-	27.70	3.84	-
AV	2.4835G	53.68	54.00	-0.32	22.14	3	Horizontal	116	1.00	-	27.70	3.84	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz_TX

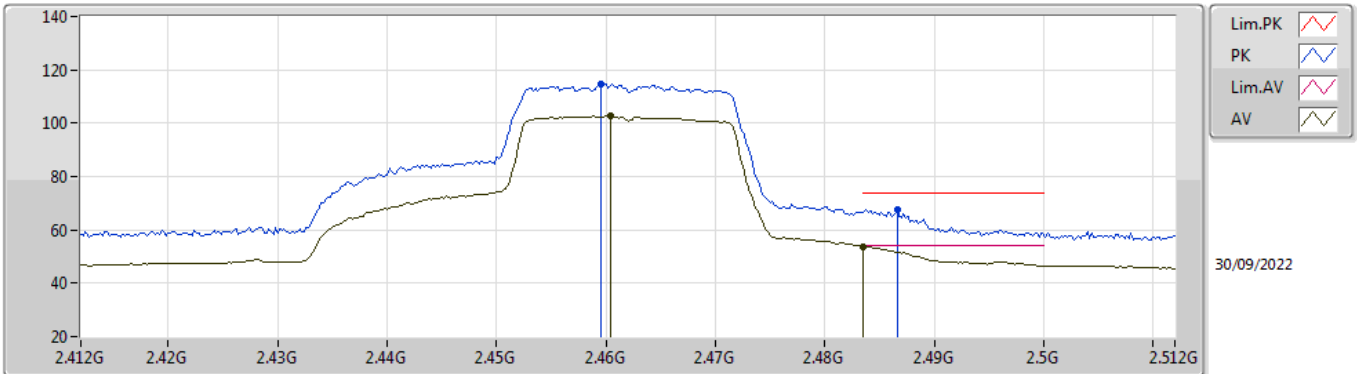


EUT_Z_2TX
Setting 78
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4552G	109.11	Inf	-Inf	77.75	3	Vertical	300	2.79	-	27.53	3.83	-
AV	2.461G	96.82	Inf	-Inf	65.42	3	Vertical	300	2.79	-	27.57	3.83	-
PK	2.4838G	60.05	74.00	-13.95	28.51	3	Vertical	300	2.79	-	27.70	3.84	-
AV	2.4835G	47.70	54.00	-6.30	16.16	3	Vertical	300	2.79	-	27.70	3.84	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz_TX

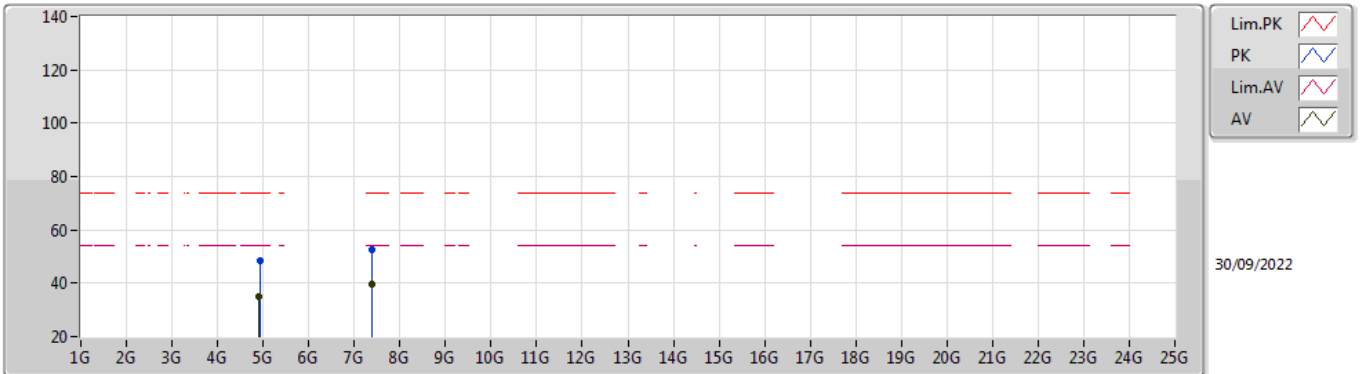


EUT_Z_2TX
Setting 78
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4596G	114.87	Inf	-Inf	83.48	3	Horizontal	117	2.24	-	27.56	3.83	-
AV	2.4604G	102.56	Inf	-Inf	71.17	3	Horizontal	117	2.24	-	27.56	3.83	-
PK	2.4866G	67.70	74.00	-6.30	36.14	3	Horizontal	117	2.24	-	27.72	3.84	-
AV	2.4835G	53.82	54.00	-0.18	22.28	3	Horizontal	117	2.24	-	27.70	3.84	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz_TX

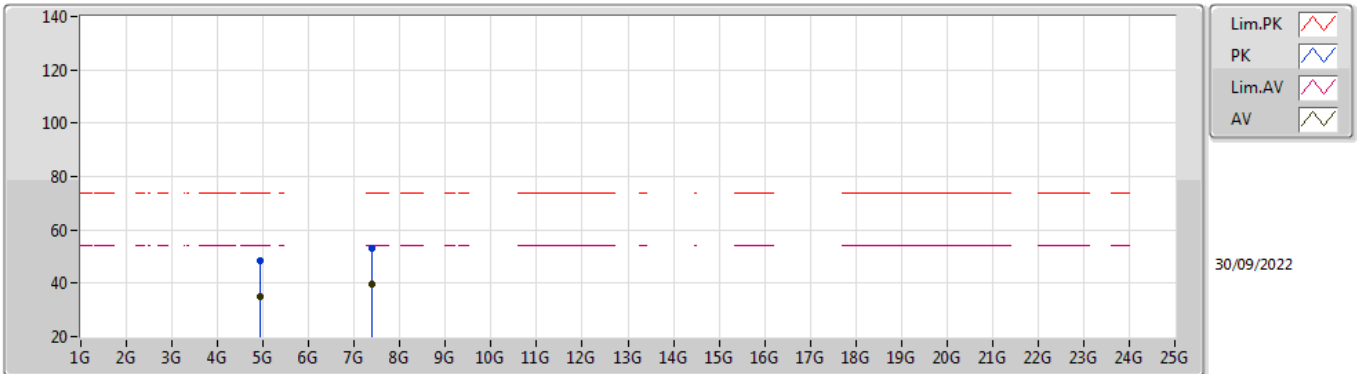


EUT V_2TX
Setting 78
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9257G	48.43	74.00	-25.57	42.31	3	Vertical	124	2.09	-	32.65	6.33	32.86
AV	4.91914G	34.82	54.00	-19.18	28.73	3	Vertical	124	2.09	-	32.64	6.32	32.87
PK	7.38318G	52.60	74.00	-21.40	40.93	3	Vertical	256	1.54	-	37.20	7.69	33.22
AV	7.3904G	39.68	54.00	-14.32	28.00	3	Vertical	256	1.54	-	37.20	7.70	33.22

802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz_TX

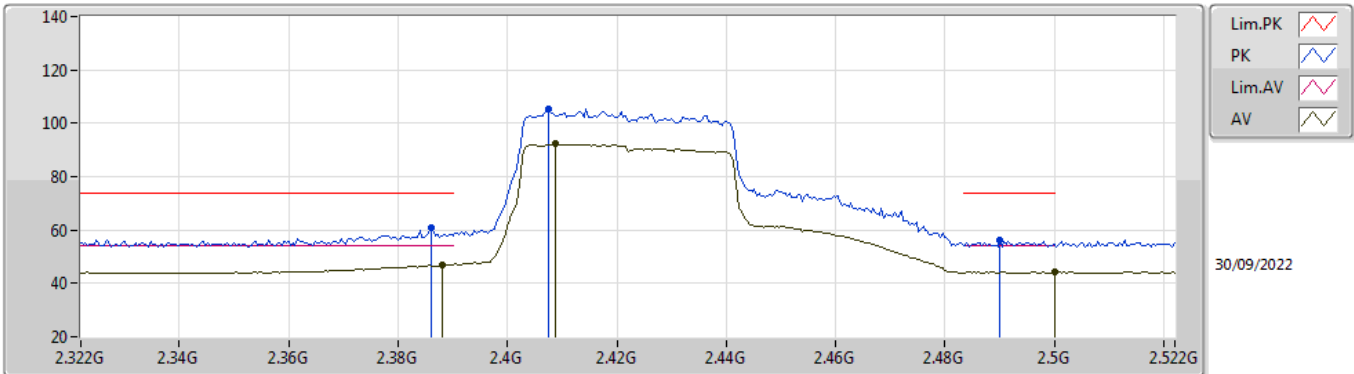


EUT V_2TX
Setting 78
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9285G	48.35	74.00	-25.65	42.22	3	Horizontal	104	2.16	-	32.66	6.33	32.86
AV	4.92498G	34.78	54.00	-19.22	28.68	3	Horizontal	104	2.16	-	32.65	6.32	32.87
PK	7.38538G	53.00	74.00	-21.00	41.33	3	Horizontal	357	1.65	-	37.20	7.69	33.22
AV	7.3815G	39.72	54.00	-14.28	28.05	3	Horizontal	357	1.65	-	37.20	7.69	33.22

802.11ax HEW40_Nss2,(MCS0)_2TX

2422MHz_TX

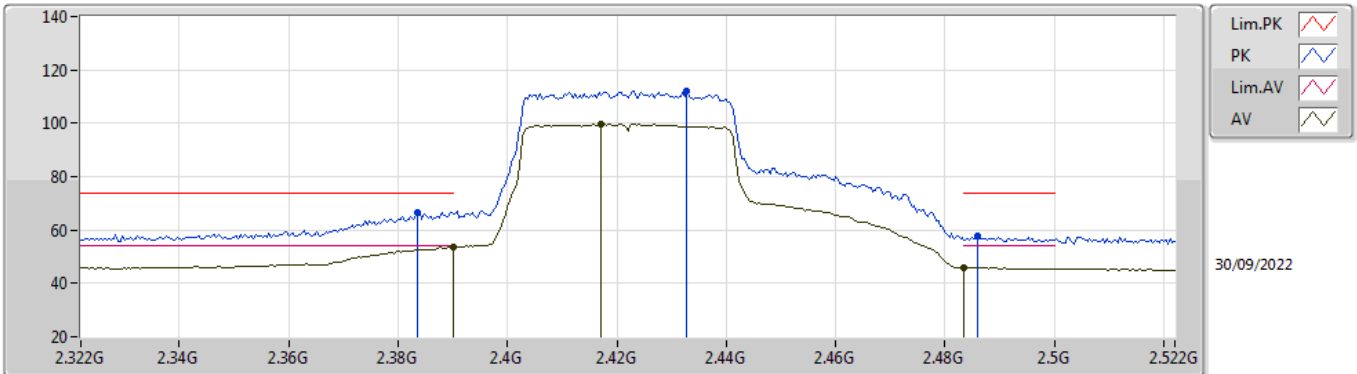


EUT_Z_2TX
Setting 69
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.386G	61.10	74.00	-12.90	29.77	3	Vertical	308	2.92	-	27.54	3.79	-
AV	2.388G	46.95	54.00	-7.05	15.61	3	Vertical	308	2.92	-	27.55	3.79	-
PK	2.4076G	105.27	Inf	-Inf	73.89	3	Vertical	308	2.92	-	27.58	3.80	-
AV	2.4088G	92.51	Inf	-Inf	61.13	3	Vertical	308	2.92	-	27.58	3.80	-
PK	2.49G	56.07	74.00	-17.93	24.49	3	Vertical	308	2.92	-	27.74	3.84	-
AV	2.5G	44.16	54.00	-9.84	12.51	3	Vertical	308	2.92	-	27.80	3.85	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2422MHz_TX

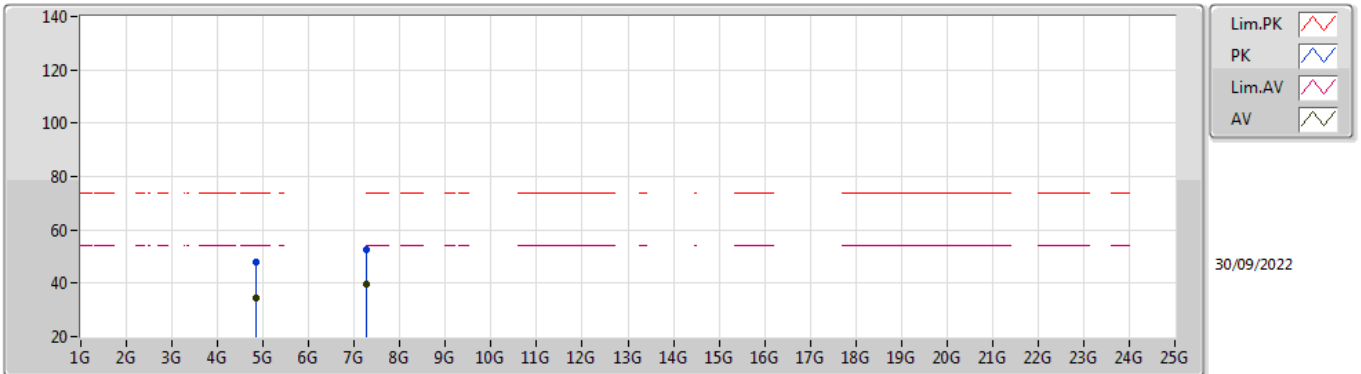


EUT_Z_2TX
Setting 69
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3836G	66.68	74.00	-7.32	35.37	3	Horizontal	65	2.78	-	27.53	3.78	-
AV	2.39G	53.79	54.00	-0.21	22.44	3	Horizontal	65	2.78	-	27.56	3.79	-
PK	2.4328G	111.91	Inf	-Inf	80.56	3	Horizontal	65	2.78	-	27.53	3.82	-
AV	2.4172G	99.74	Inf	-Inf	68.36	3	Horizontal	65	2.78	-	27.57	3.81	-
PK	2.486G	57.93	74.00	-16.07	26.37	3	Horizontal	65	2.78	-	27.72	3.84	-
AV	2.4835G	45.88	54.00	-8.12	14.34	3	Horizontal	65	2.78	-	27.70	3.84	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2422MHz_TX

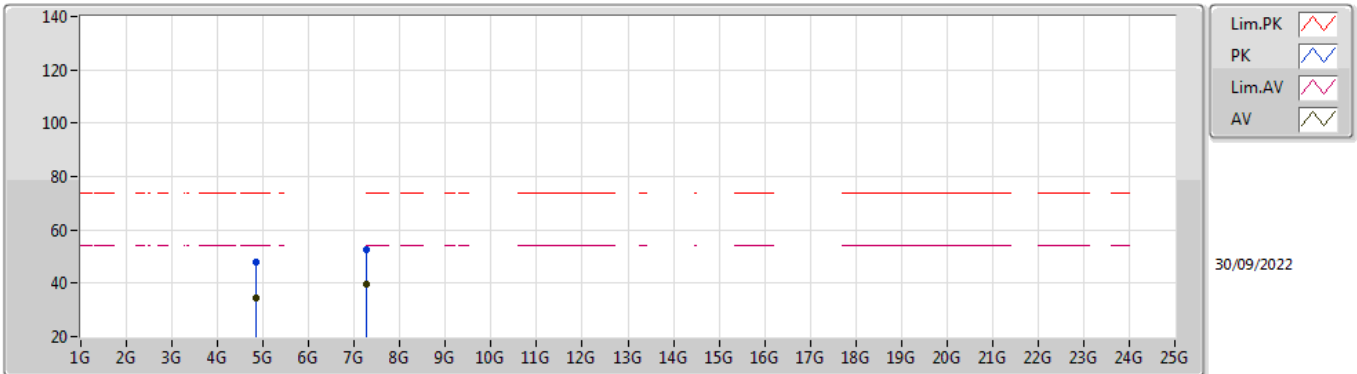


EUT Y_2TX
Setting 69
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84084G	47.71	74.00	-26.29	41.87	3	Vertical	283	1.59	-	32.48	6.24	32.88
AV	4.84128G	34.55	54.00	-19.45	28.71	3	Vertical	283	1.59	-	32.48	6.24	32.88
PK	7.27006G	52.74	74.00	-21.26	41.08	3	Vertical	121	1.69	-	37.18	7.64	33.16
AV	7.26694G	39.41	54.00	-14.59	27.77	3	Vertical	121	1.69	-	37.17	7.63	33.16

802.11ax HEW40_Nss2,(MCS0)_2TX

2422MHz_TX

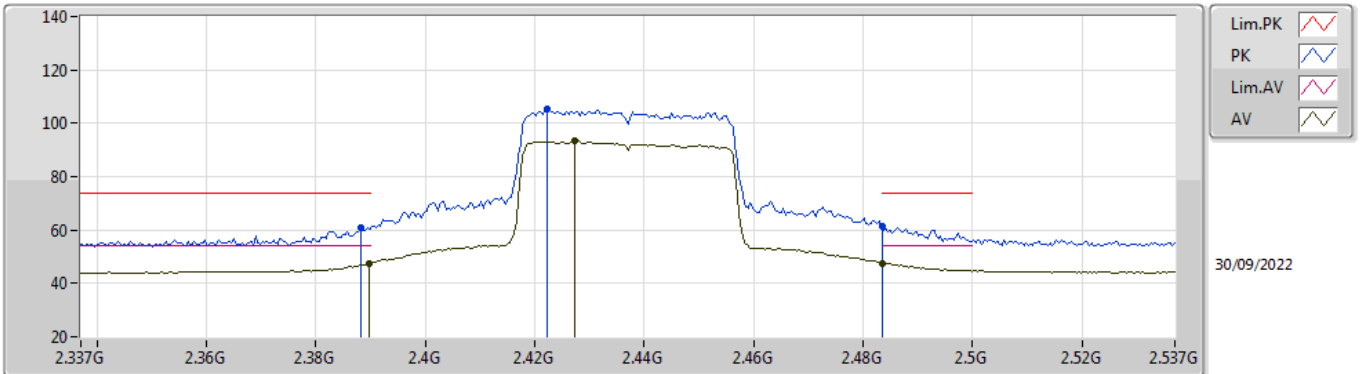


EUT Y_2TX
Setting 69
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84692G	47.80	74.00	-26.20	41.94	3	Horizontal	186	2.20	-	32.49	6.25	32.88
AV	4.84688G	34.54	54.00	-19.46	28.68	3	Horizontal	186	2.20	-	32.49	6.25	32.88
PK	7.26658G	52.79	74.00	-21.21	41.15	3	Horizontal	286	1.52	-	37.17	7.63	33.16
AV	7.26116G	39.47	54.00	-14.53	27.86	3	Horizontal	286	1.52	-	37.14	7.63	33.16

802.11ax HEW40_Nss2,(MCS0)_2TX

2437MHz_TX

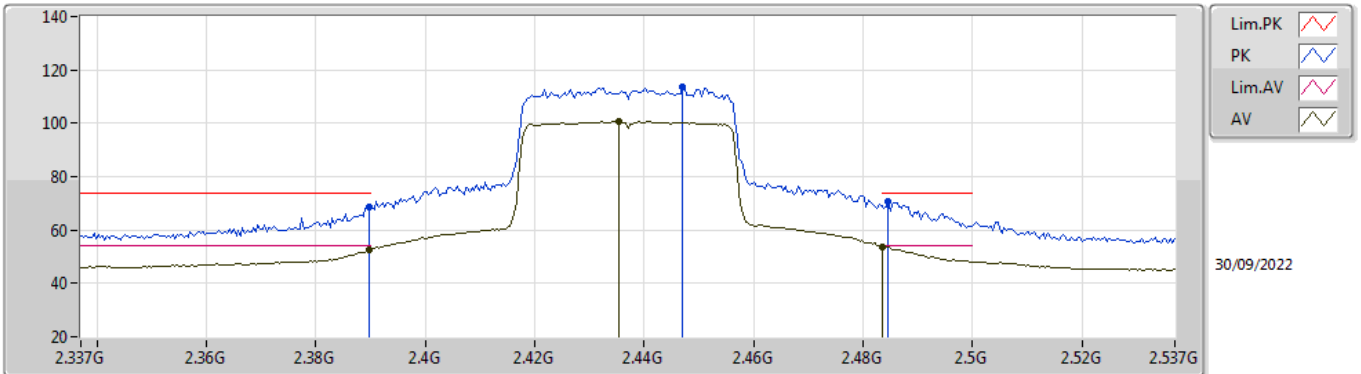


EUT_Z_2TX
Setting 70
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	60.92	74.00	-13.08	29.58	3	Vertical	308	2.81	-	27.55	3.79	-
AV	2.3898G	47.41	54.00	-6.59	16.06	3	Vertical	308	2.81	-	27.56	3.79	-
PK	2.4222G	105.56	Inf	-Inf	74.19	3	Vertical	308	2.81	-	27.56	3.81	-
AV	2.4274G	93.24	Inf	-Inf	61.88	3	Vertical	308	2.81	-	27.55	3.81	-
PK	2.4835G	61.47	74.00	-12.53	29.93	3	Vertical	308	2.81	-	27.70	3.84	-
AV	2.4835G	47.59	54.00	-6.41	16.05	3	Vertical	308	2.81	-	27.70	3.84	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2437MHz_TX

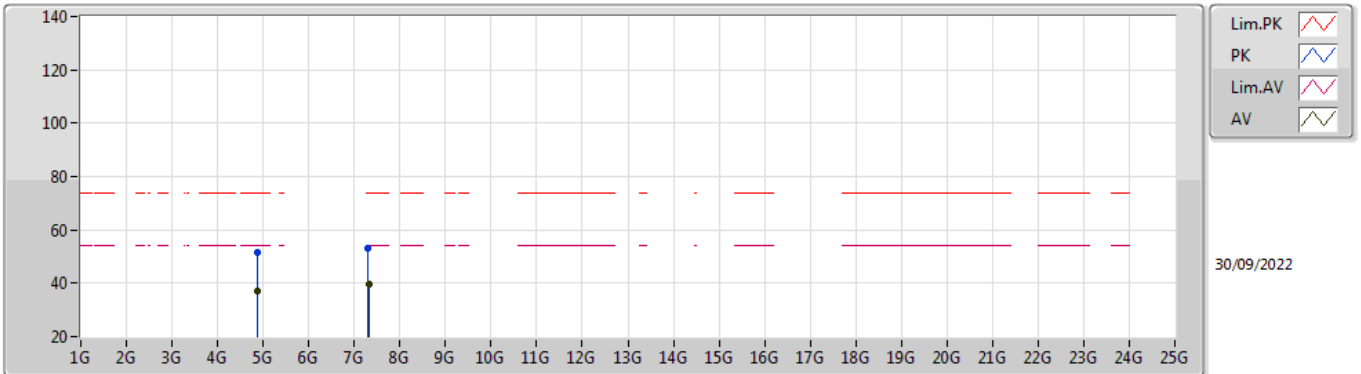


EUT_Z_2TX
Setting 70
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	68.83	74.00	-5.17	37.48	3	Horizontal	65	2.71	-	27.56	3.79	-
AV	2.3898G	52.52	54.00	-1.48	21.17	3	Horizontal	65	2.71	-	27.56	3.79	-
PK	2.447G	113.43	Inf	-Inf	82.10	3	Horizontal	65	2.71	-	27.51	3.82	-
AV	2.4354G	100.56	Inf	-Inf	69.21	3	Horizontal	65	2.71	-	27.53	3.82	-
PK	2.4846G	70.86	74.00	-3.14	39.31	3	Horizontal	65	2.71	-	27.71	3.84	-
AV	2.4835G	53.73	54.00	-0.27	22.19	3	Horizontal	65	2.71	-	27.70	3.84	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2437MHz_TX

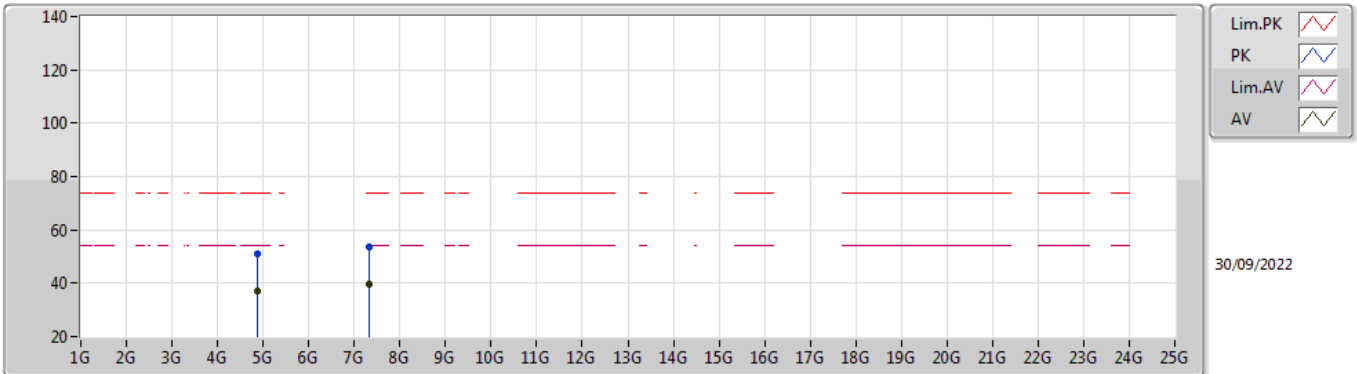


EUT Y_2TX
Setting 70
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87352G	51.56	74.00	-22.44	45.62	3	Vertical	325	1.06	-	32.55	6.27	32.88
AV	4.8734G	37.31	54.00	-16.69	31.37	3	Vertical	325	1.06	-	32.55	6.27	32.88
PK	7.30774G	52.99	74.00	-21.01	41.24	3	Vertical	60	1.38	-	37.28	7.65	33.18
AV	7.31176G	39.79	54.00	-14.21	28.03	3	Vertical	60	1.38	-	37.28	7.66	33.18

802.11ax HEW40_Nss2,(MCS0)_2TX

2437MHz_TX

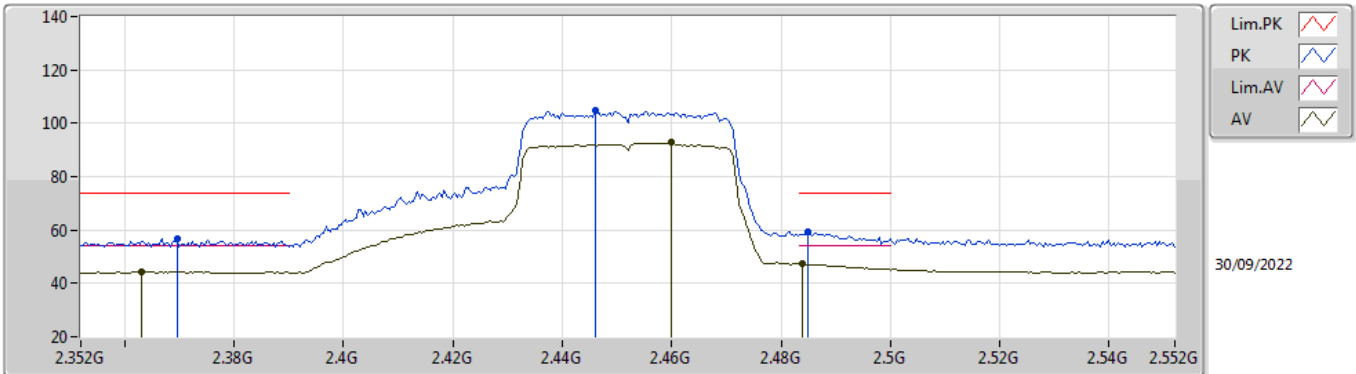


EUT_V_2TX
Setting 70
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87402G	51.00	74.00	-23.00	45.06	3	Horizontal	13	2.98	-	32.55	6.27	32.88
AV	4.87408G	37.15	54.00	-16.85	31.21	3	Horizontal	13	2.98	-	32.55	6.27	32.88
PK	7.3127G	53.55	74.00	-20.45	41.80	3	Horizontal	329	2.73	-	37.27	7.66	33.18
AV	7.31074G	39.76	54.00	-14.24	28.00	3	Horizontal	329	2.73	-	37.28	7.66	33.18

802.11ax HEW40_Nss2,(MCS0)_2TX

2452MHz_TX

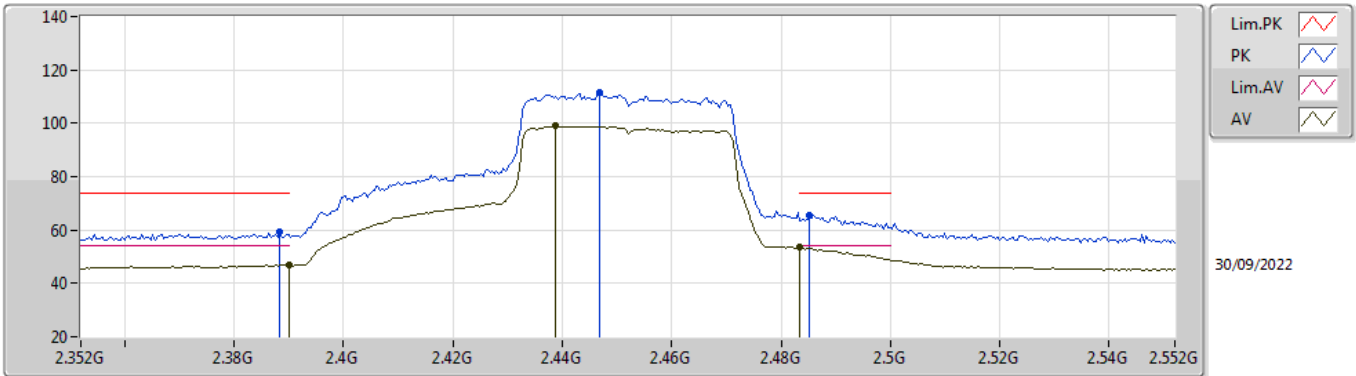


EUT_Z_2TX
Setting 69
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3696G	56.94	74.00	-17.06	25.69	3	Vertical	312	2.70	-	27.48	3.77	-
AV	2.3632G	44.37	54.00	-9.63	13.16	3	Vertical	312	2.70	-	27.45	3.76	-
PK	2.446G	104.73	Inf	-Inf	73.40	3	Vertical	312	2.70	-	27.51	3.82	-
AV	2.46G	92.73	Inf	-Inf	61.34	3	Vertical	312	2.70	-	27.56	3.83	-
PK	2.4848G	59.15	74.00	-14.85	27.60	3	Vertical	312	2.70	-	27.71	3.84	-
AV	2.484G	47.19	54.00	-6.81	15.65	3	Vertical	312	2.70	-	27.70	3.84	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2452MHz_TX

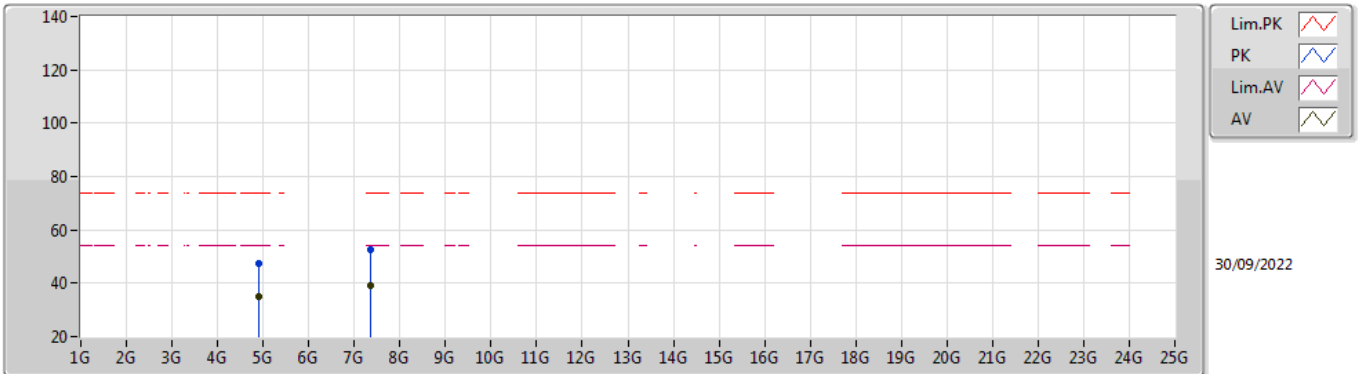


EUT_Z_2TX
Setting 69
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	59.38	74.00	-14.62	28.04	3	Horizontal	116	1.09	-	27.55	3.79	-
AV	2.39G	46.76	54.00	-7.24	15.41	3	Horizontal	116	1.09	-	27.56	3.79	-
PK	2.4468G	111.30	Inf	-Inf	79.97	3	Horizontal	116	1.09	-	27.51	3.82	-
AV	2.4388G	98.91	Inf	-Inf	67.57	3	Horizontal	116	1.09	-	27.52	3.82	-
PK	2.4852G	65.38	74.00	-8.62	33.83	3	Horizontal	116	1.09	-	27.71	3.84	-
AV	2.4835G	53.57	54.00	-0.43	22.03	3	Horizontal	116	1.09	-	27.70	3.84	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2452MHz_TX

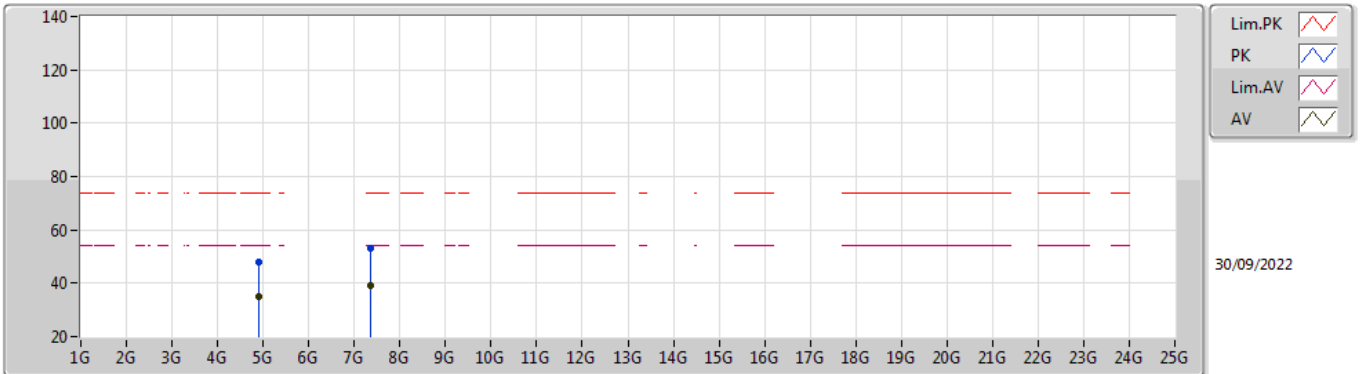


EUT_V_2TX
Setting 69
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90806G	47.56	74.00	-26.44	41.50	3	Vertical	47	2.87	-	32.62	6.31	32.87
AV	4.89954G	34.86	54.00	-19.14	28.83	3	Vertical	47	2.87	-	32.60	6.30	32.87
PK	7.35194G	52.56	74.00	-21.44	40.88	3	Vertical	182	1.20	-	37.20	7.68	33.20
AV	7.358G	39.13	54.00	-14.87	27.46	3	Vertical	182	1.20	-	37.20	7.68	33.21

802.11ax HEW40_Nss2,(MCS0)_2TX

2452MHz_TX



EUT_V_2TX
Setting 69
01-A-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90198G	47.86	74.00	-26.14	41.83	3	Horizontal	209	2.24	-	32.60	6.30	32.87
AV	4.90096G	34.83	54.00	-19.17	28.80	3	Horizontal	209	2.24	-	32.60	6.30	32.87
PK	7.36046G	52.91	74.00	-21.09	41.24	3	Horizontal	49	1.08	-	37.20	7.68	33.21
AV	7.35302G	39.25	54.00	-14.75	27.57	3	Horizontal	49	1.08	-	37.20	7.68	33.20



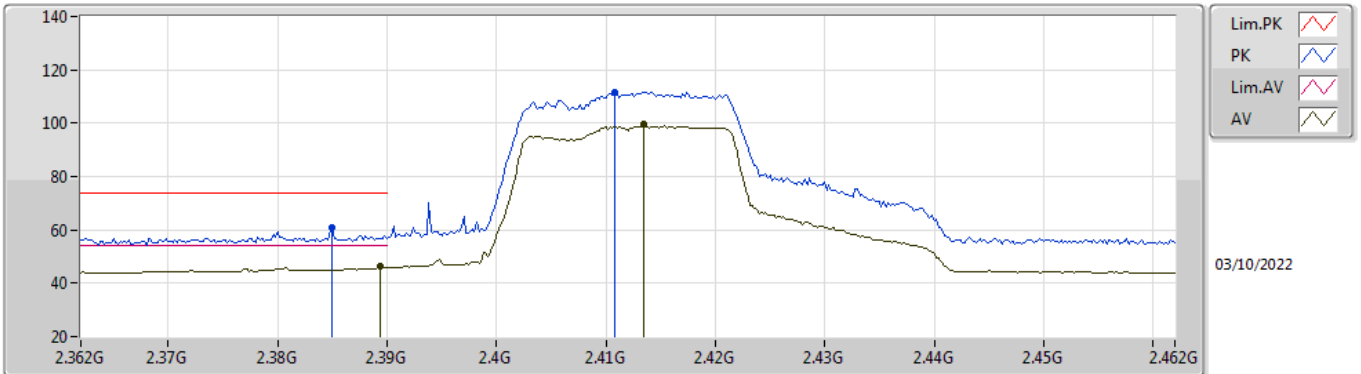
For beamforming mode:

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 HEW40-BF_Nss1,(MCS0)_2TX	Pass	AV	2.3882G	53.82	54.00	-0.18	3	Vertical	312	2.47	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

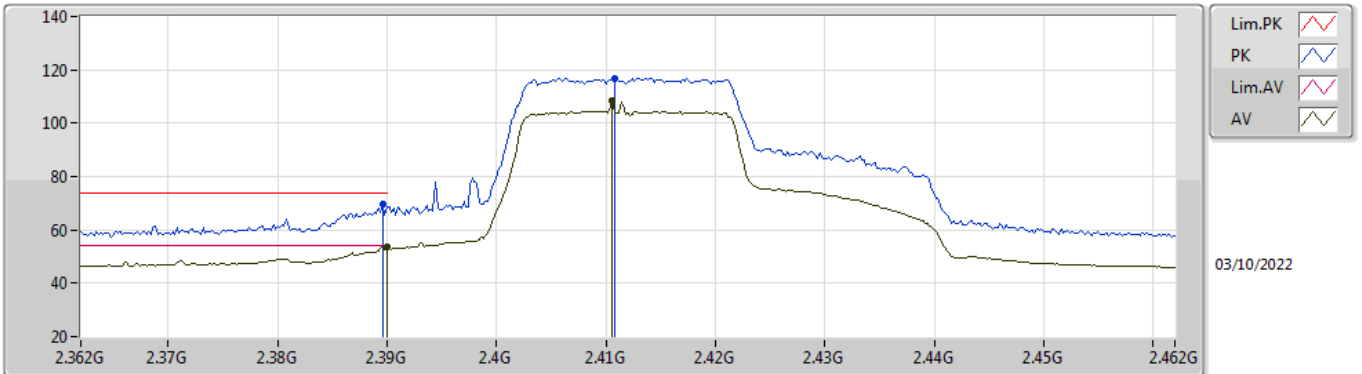


EUT_Z_2TX
Setting 76
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.385G	60.94	74.00	-13.06	29.61	3	Vertical	235	2.82	-	27.54	3.79	-
AV	2.3894G	46.53	54.00	-7.47	15.18	3	Vertical	235	2.82	-	27.56	3.79	-
PK	2.4108G	111.70	Inf	-Inf	80.31	3	Vertical	235	2.82	-	27.58	3.81	-
AV	2.4134G	99.51	Inf	-Inf	68.13	3	Vertical	235	2.82	-	27.57	3.81	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

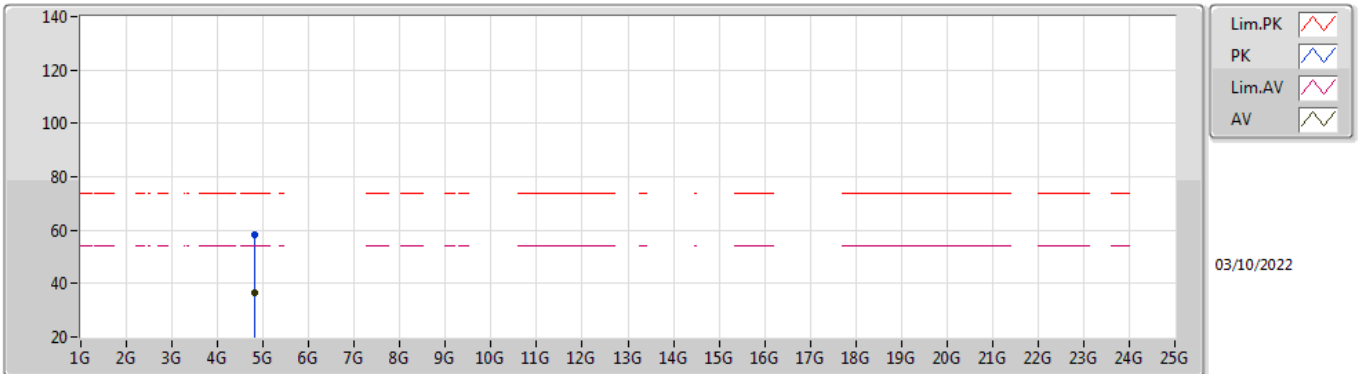


EUT_Z_2TX
Setting 76
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3896G	69.88	74.00	-4.12	38.53	3	Horizontal	340	3.00	-	27.56	3.79	-	
AV	2.39G	53.77	54.00	-0.23	22.42	3	Horizontal	340	3.00	-	27.56	3.79	-	
PK	2.4108G	116.86	Inf	-Inf	85.47	3	Horizontal	340	3.00	-	27.58	3.81	-	
AV	2.4106G	108.60	Inf	-Inf	77.21	3	Horizontal	340	3.00	-	27.58	3.81	-	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

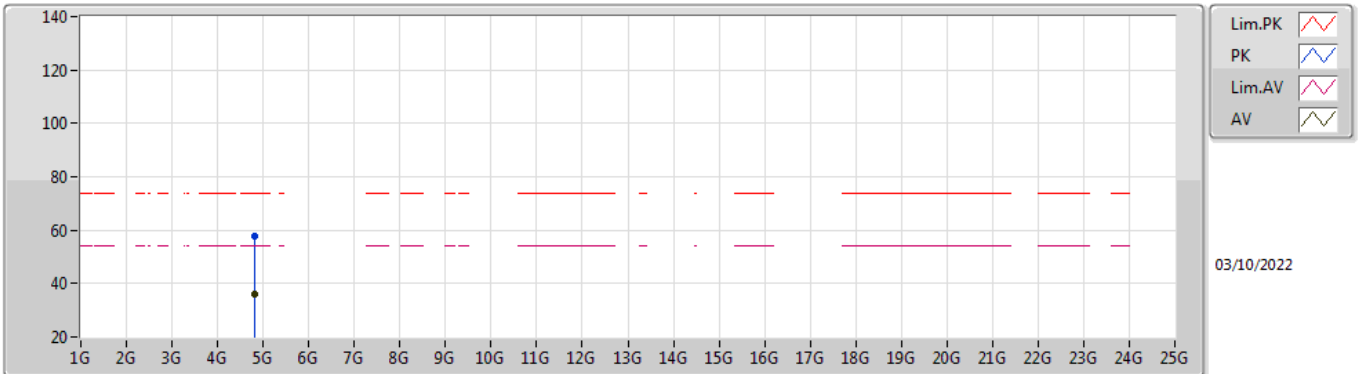


EUT Y_2TX
Setting 76
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.82274G	58.20	74.00	-15.80	52.42	3	Vertical	66	2.43	-	32.45	6.22	32.89	
AV	4.8277G	36.75	54.00	-17.25	30.94	3	Vertical	66	2.43	-	32.46	6.23	32.88	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

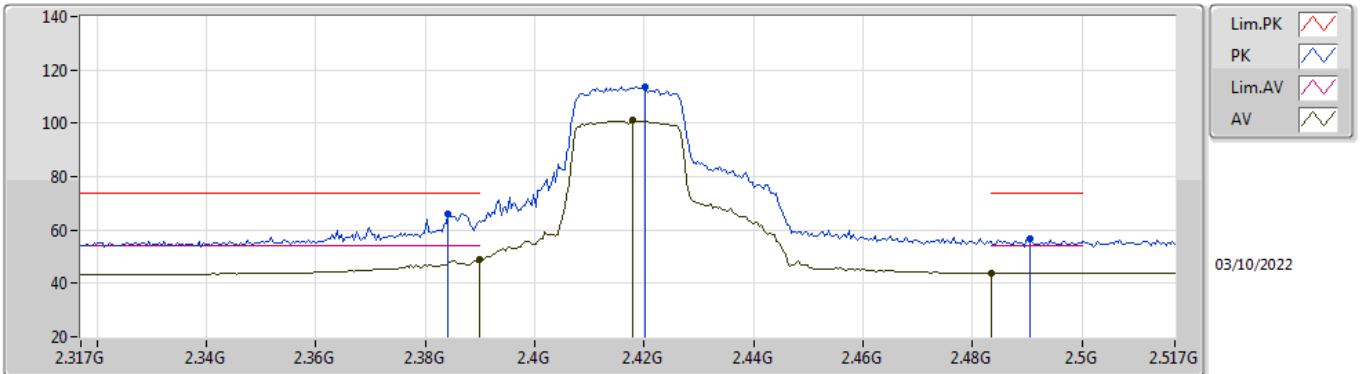


EUT Y_2TX
Setting 76
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82556G	57.79	74.00	-16.21	51.99	3	Horizontal	61	1.98	-	32.45	6.23	32.88
AV	4.82638G	36.29	54.00	-17.71	30.49	3	Horizontal	61	1.98	-	32.45	6.23	32.88

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

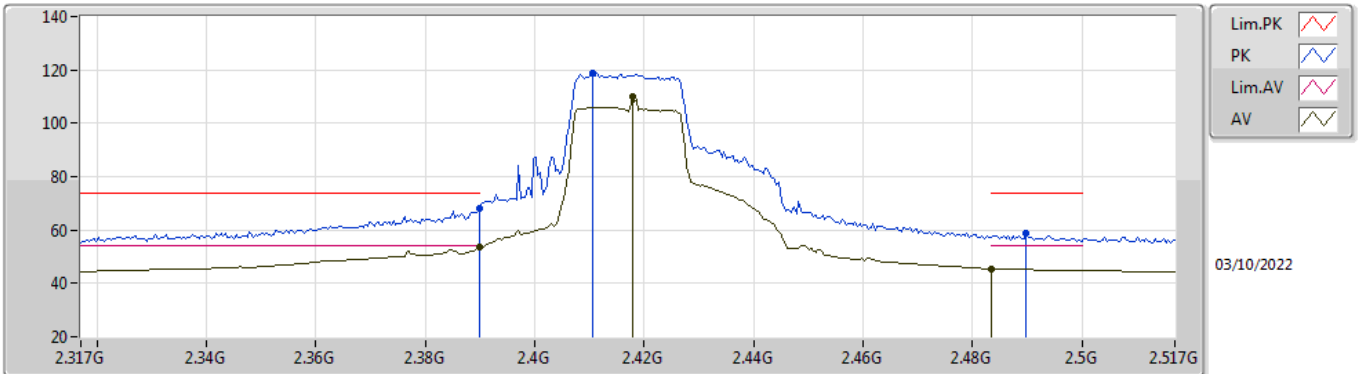


EUT_Z_2TX
Setting 85
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3842G	66.11	74.00	-7.89	34.79	3	Vertical	230	2.85	-	27.54	3.78	-
AV	2.3898G	48.72	54.00	-5.28	17.37	3	Vertical	230	2.85	-	27.56	3.79	-
PK	2.4202G	113.73	Inf	-Inf	82.36	3	Vertical	230	2.85	-	27.56	3.81	-
AV	2.4178G	101.25	Inf	-Inf	69.88	3	Vertical	230	2.85	-	27.56	3.81	-
PK	2.4906G	56.89	74.00	-17.11	25.30	3	Vertical	230	2.85	-	27.74	3.85	-
AV	2.4835G	43.81	54.00	-10.19	12.27	3	Vertical	230	2.85	-	27.70	3.84	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

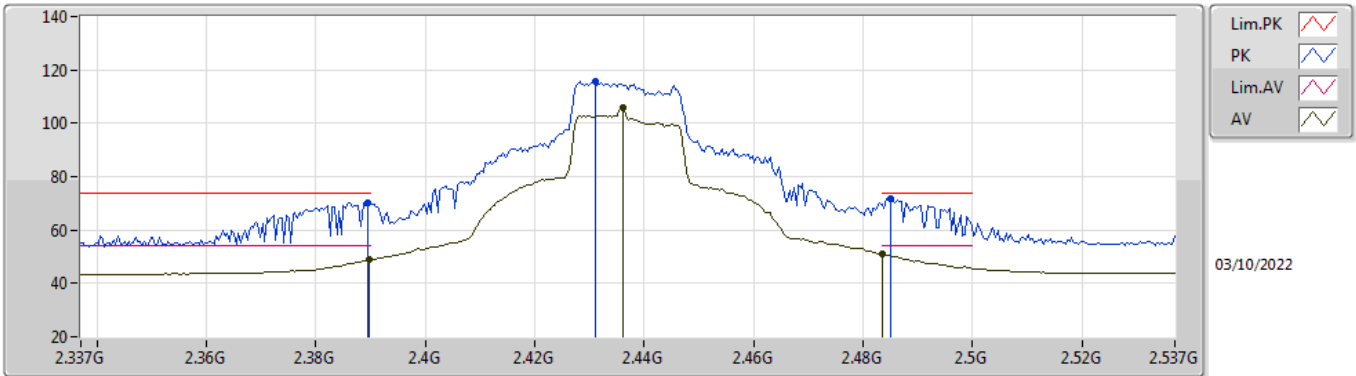


EUT_Z_2TX
Setting 85
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	67.96	74.00	-6.04	36.61	3	Horizontal	350	2.74	-	27.56	3.79	-
AV	2.3898G	53.75	54.00	-0.25	22.40	3	Horizontal	350	2.74	-	27.56	3.79	-
PK	2.4106G	118.65	Inf	-Inf	87.26	3	Horizontal	350	2.74	-	27.58	3.81	-
AV	2.4178G	109.92	Inf	-Inf	78.55	3	Horizontal	350	2.74	-	27.56	3.81	-
PK	2.4898G	58.58	74.00	-15.42	27.00	3	Horizontal	350	2.74	-	27.74	3.84	-
AV	2.4835G	45.58	54.00	-8.42	14.04	3	Horizontal	350	2.74	-	27.70	3.84	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

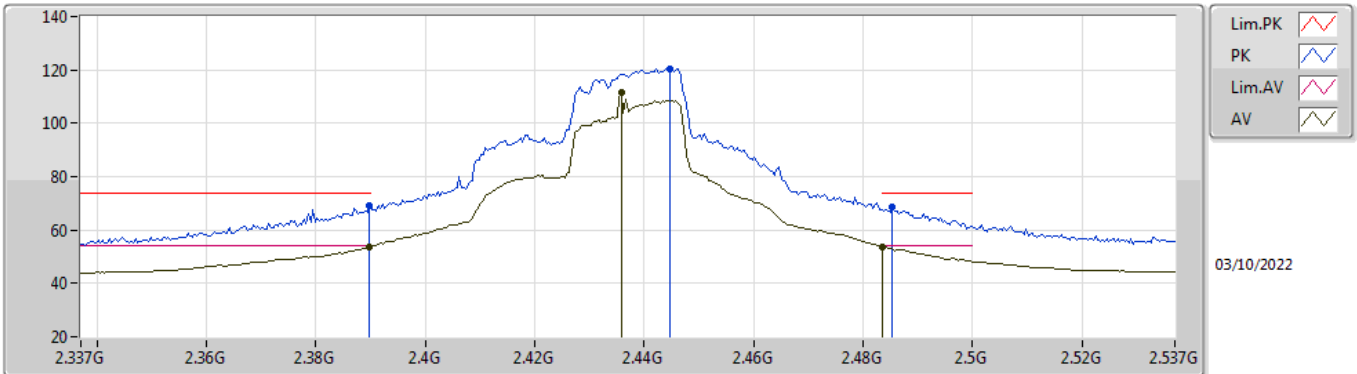


EUT_Z_2TX
Setting 95
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	70.33	74.00	-3.67	38.98	3	Vertical	220	2.75	-	27.56	3.79	-
AV	2.3898G	48.73	54.00	-5.27	17.38	3	Vertical	220	2.75	-	27.56	3.79	-
PK	2.431G	115.87	Inf	-Inf	84.51	3	Vertical	220	2.75	-	27.54	3.82	-
AV	2.4362G	105.95	Inf	-Inf	74.60	3	Vertical	220	2.75	-	27.53	3.82	-
PK	2.485G	71.84	74.00	-2.16	40.29	3	Vertical	220	2.75	-	27.71	3.84	-
AV	2.4835G	51.00	54.00	-3.00	19.46	3	Vertical	220	2.75	-	27.70	3.84	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

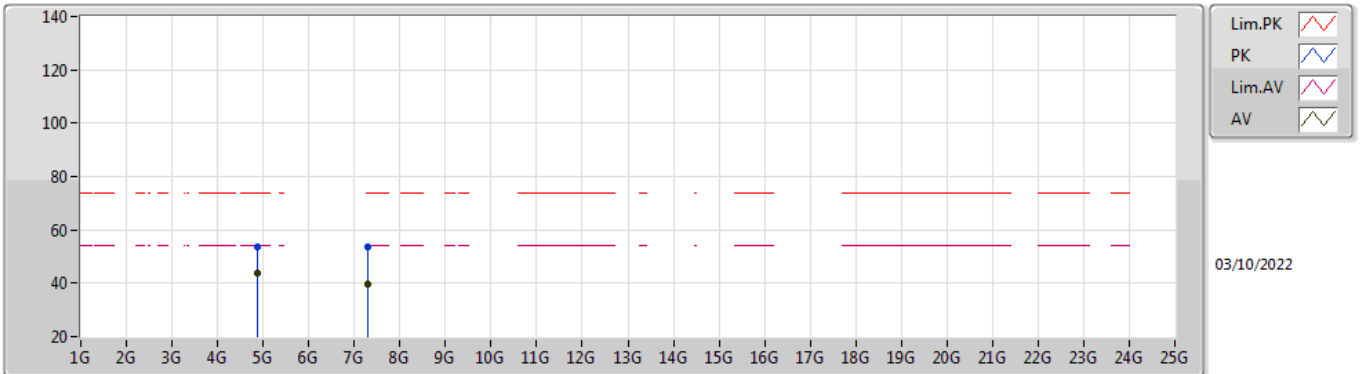


EUT_Z_2TX
Setting 95
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	69.23	74.00	-4.77	37.88	3	Horizontal	30	2.75	-	27.56	3.79	-
AV	2.3898G	53.68	54.00	-0.32	22.33	3	Horizontal	30	2.75	-	27.56	3.79	-
PK	2.4446G	120.55	Inf	-Inf	89.22	3	Horizontal	30	2.75	-	27.51	3.82	-
AV	2.4358G	111.57	Inf	-Inf	80.22	3	Horizontal	30	2.75	-	27.53	3.82	-
PK	2.4854G	68.57	74.00	-5.43	37.02	3	Horizontal	30	2.75	-	27.71	3.84	-
AV	2.4835G	53.75	54.00	-0.25	22.21	3	Horizontal	30	2.75	-	27.70	3.84	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

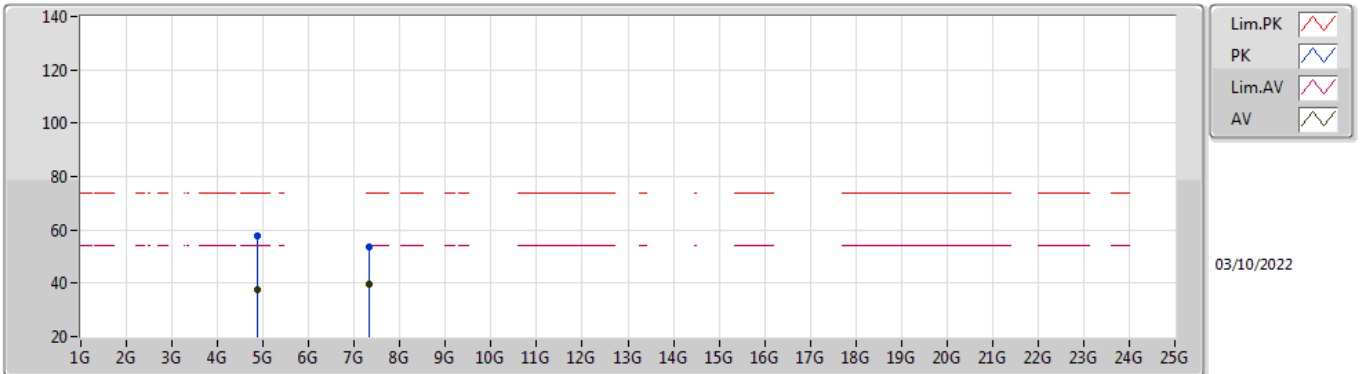


EUT Y_2TX
Setting 95
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.874G	53.79	74.00	-20.21	47.85	3	Vertical	360	2.15	-	32.55	6.27	32.88
AV	4.87436G	43.93	54.00	-10.07	37.99	3	Vertical	360	2.15	-	32.55	6.27	32.88
PK	7.30606G	53.44	74.00	-20.56	41.68	3	Vertical	321	1.40	-	37.29	7.65	33.18
AV	7.30842G	39.52	54.00	-14.48	27.77	3	Vertical	321	1.40	-	37.28	7.65	33.18

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

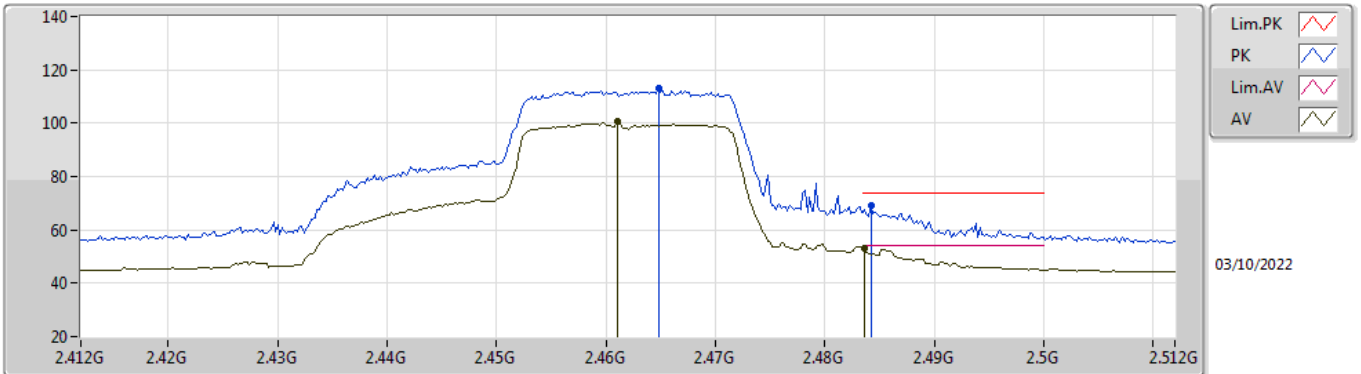


EUT_V_2TX
Setting 95
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86068G	57.82	74.00	-16.18	51.92	3	Horizontal	2	1.13	-	32.52	6.26	32.88
AV	4.87022G	37.78	54.00	-16.22	31.85	3	Horizontal	2	1.13	-	32.54	6.27	32.88
PK	7.31416G	53.69	74.00	-20.31	41.94	3	Horizontal	50	2.10	-	37.27	7.66	33.18
AV	7.31054G	39.53	54.00	-14.47	27.77	3	Horizontal	50	2.10	-	37.28	7.66	33.18

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

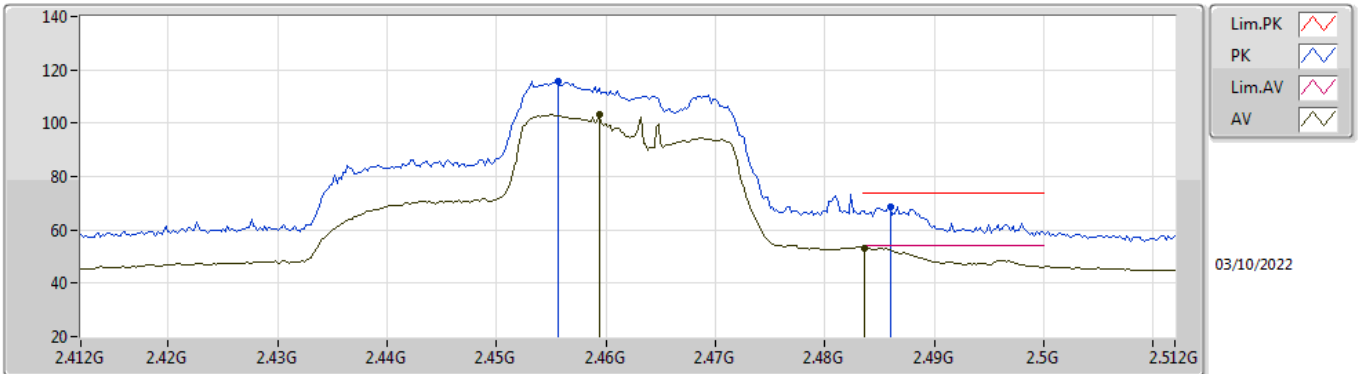


EUT_Z_2TX
Setting 83
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4648G	112.97	Inf	-Inf	81.55	3	Vertical	225	2.48	-	27.59	3.83	-
AV	2.461G	100.94	Inf	-Inf	69.54	3	Vertical	225	2.48	-	27.57	3.83	-
PK	2.4842G	69.04	74.00	-4.96	37.49	3	Vertical	225	2.48	-	27.71	3.84	-
AV	2.4836G	53.36	54.00	-0.64	21.82	3	Vertical	225	2.48	-	27.70	3.84	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

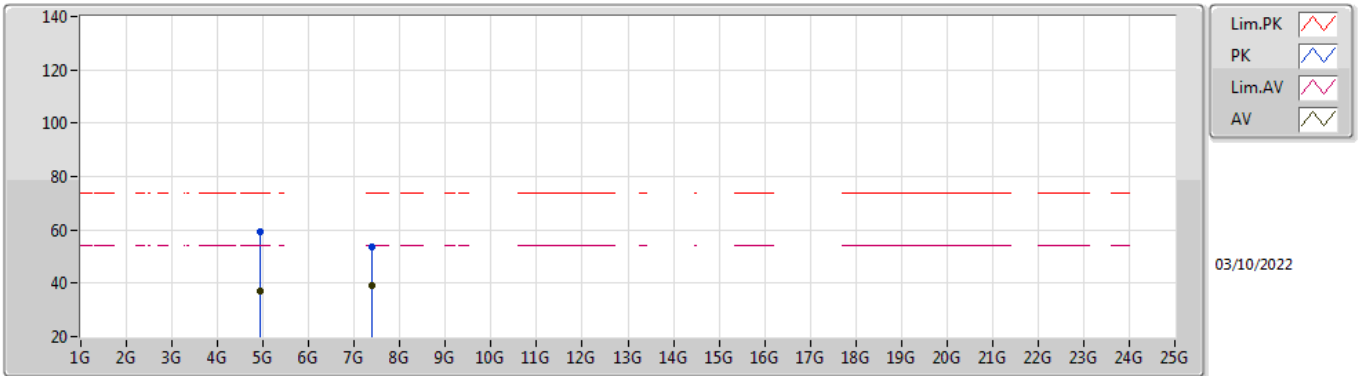


EUT_Z_2TX
Setting 83
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4556G	115.57	Inf	-Inf	84.21	3	Horizontal	53	1.18	-	27.53	3.83	-
AV	2.4594G	103.29	Inf	-Inf	71.90	3	Horizontal	53	1.18	-	27.56	3.83	-
PK	2.486G	68.62	74.00	-5.38	37.06	3	Horizontal	53	1.18	-	27.72	3.84	-
AV	2.4836G	53.24	54.00	-0.76	21.70	3	Horizontal	53	1.18	-	27.70	3.84	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

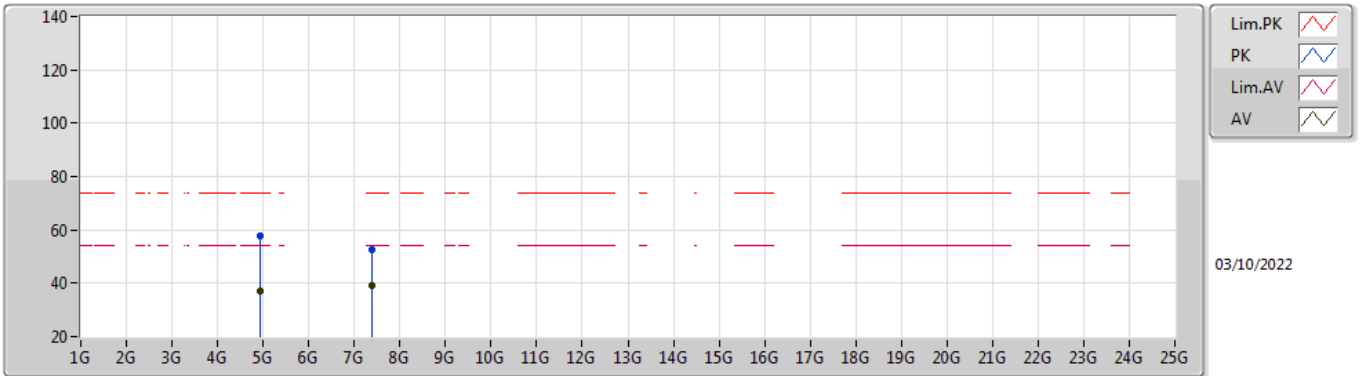


EUT_V_2TX
Setting 83
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92192G	59.38	74.00	-14.62	53.29	3	Vertical	309	1.37	-	32.64	6.32	32.87
AV	4.925G	36.95	54.00	-17.05	30.84	3	Vertical	309	1.37	-	32.65	6.33	32.87
PK	7.38214G	53.40	74.00	-20.60	41.73	3	Vertical	196	1.99	-	37.20	7.69	33.22
AV	7.38224G	39.12	54.00	-14.88	27.45	3	Vertical	196	1.99	-	37.20	7.69	33.22

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

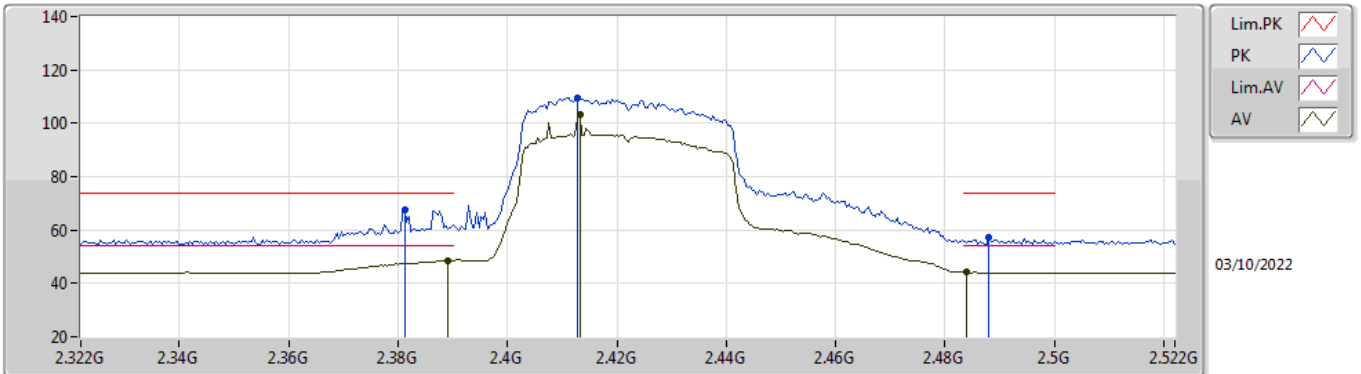


EUT Y_2TX
Setting 83
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9205G	57.69	74.00	-16.31	51.60	3	Horizontal	94	2.44	-	32.64	6.32	32.87
AV	4.92378G	37.10	54.00	-16.90	31.00	3	Horizontal	94	2.44	-	32.65	6.32	32.87
PK	7.38666G	52.71	74.00	-21.29	41.04	3	Horizontal	315	2.86	-	37.20	7.69	33.22
AV	7.39044G	39.16	54.00	-14.84	27.48	3	Horizontal	315	2.86	-	37.20	7.70	33.22

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

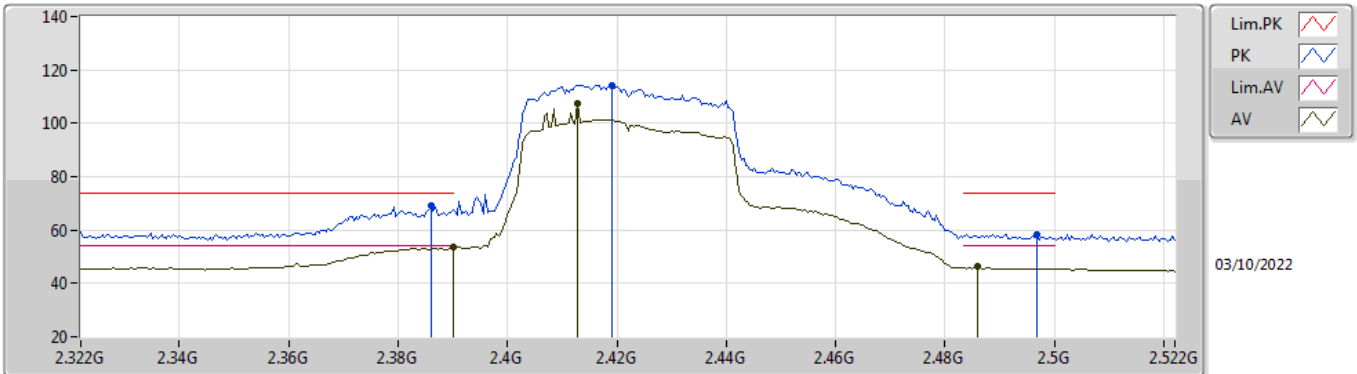


EUT_Z_2TX
Setting 72
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3812G	67.66	74.00	-6.34	36.36	3	Vertical	231	2.80	-	27.52	3.78	-
AV	2.3892G	48.62	54.00	-5.38	17.27	3	Vertical	231	2.80	-	27.56	3.79	-
PK	2.4128G	109.33	Inf	-Inf	77.95	3	Vertical	231	2.80	-	27.57	3.81	-
AV	2.4132G	103.13	Inf	-Inf	71.75	3	Vertical	231	2.80	-	27.57	3.81	-
PK	2.488G	57.07	74.00	-16.93	25.50	3	Vertical	231	2.80	-	27.73	3.84	-
AV	2.484G	44.11	54.00	-9.89	12.57	3	Vertical	231	2.80	-	27.70	3.84	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

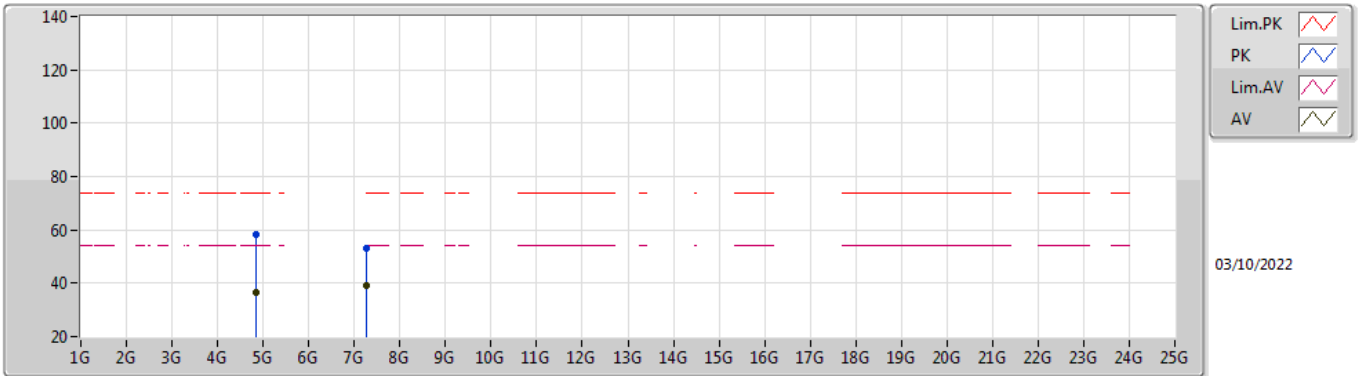


EUT_Z_2TX
Setting 72
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.386G	68.97	74.00	-5.03	37.64	3	Horizontal	23	2.50	-	27.54	3.79	-
AV	2.39G	53.42	54.00	-0.58	22.07	3	Horizontal	23	2.50	-	27.56	3.79	-
PK	2.4192G	114.35	Inf	-Inf	82.98	3	Horizontal	23	2.50	-	27.56	3.81	-
AV	2.4128G	107.35	Inf	-Inf	75.97	3	Horizontal	23	2.50	-	27.57	3.81	-
PK	2.4968G	58.39	74.00	-15.61	26.76	3	Horizontal	23	2.50	-	27.78	3.85	-
AV	2.486G	46.14	54.00	-7.86	14.58	3	Horizontal	23	2.50	-	27.72	3.84	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

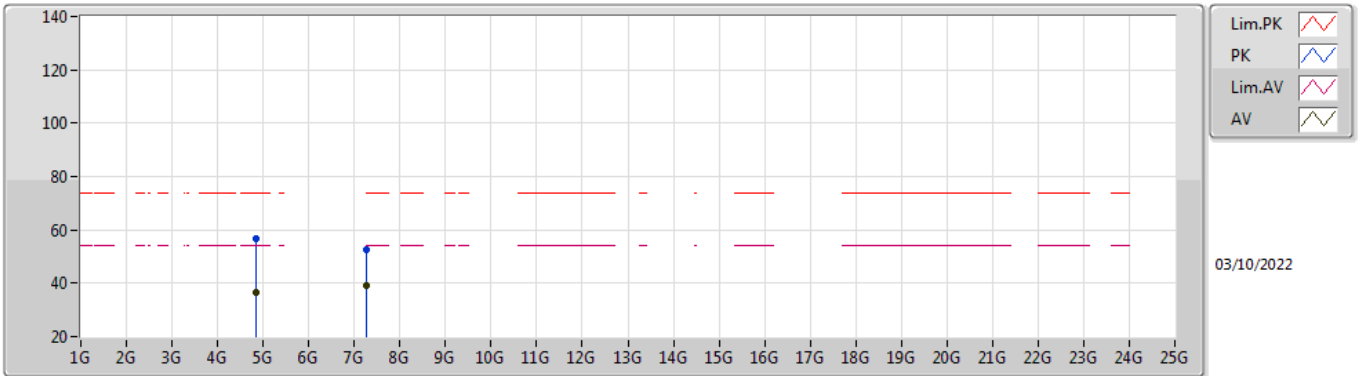


EUT_V_2TX
Setting 72
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84182G	58.31	74.00	-15.69	52.47	3	Vertical	202	2.88	-	32.48	6.24	32.88
AV	4.84742G	36.54	54.00	-17.46	30.68	3	Vertical	202	2.88	-	32.49	6.25	32.88
PK	7.2705G	53.10	74.00	-20.90	41.44	3	Vertical	159	1.34	-	37.18	7.64	33.16
AV	7.26196G	39.02	54.00	-14.98	27.40	3	Vertical	159	1.34	-	37.15	7.63	33.16

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

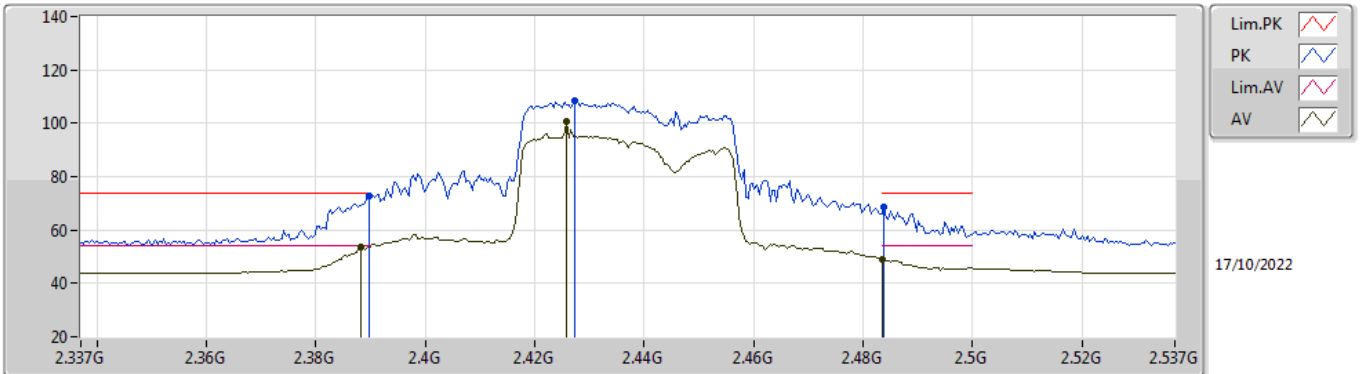


EUT_V_2TX
Setting 72
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84136G	56.65	74.00	-17.35	50.81	3	Horizontal	174	1.48	-	32.48	6.24	32.88
AV	4.84548G	36.59	54.00	-17.41	30.73	3	Horizontal	174	1.48	-	32.49	6.25	32.88
PK	7.26154G	52.78	74.00	-21.22	41.16	3	Horizontal	110	1.91	-	37.15	7.63	33.16
AV	7.2621G	39.01	54.00	-14.99	27.39	3	Horizontal	110	1.91	-	37.15	7.63	33.16

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

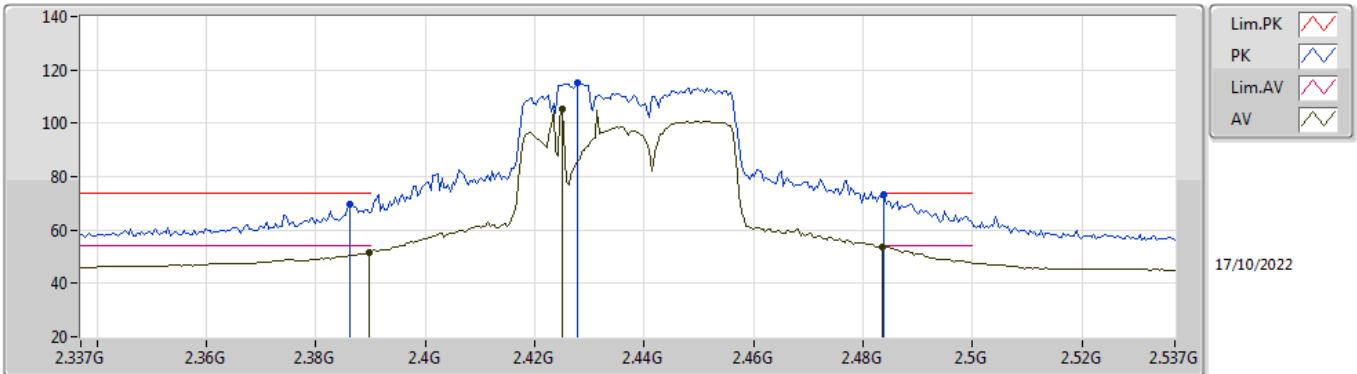


EUT_Z_2TX
Setting 72
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	72.80	74.00	-1.20	41.65	3	Vertical	312	2.47	-	27.56	3.59	-
AV	2.3882G	53.82	54.00	-0.18	22.68	3	Vertical	312	2.47	-	27.55	3.59	-
PK	2.4274G	108.35	Inf	-Inf	77.19	3	Vertical	312	2.47	-	27.55	3.61	-
AV	2.4258G	100.60	Inf	-Inf	69.44	3	Vertical	312	2.47	-	27.55	3.61	-
PK	2.4838G	68.72	74.00	-5.28	37.38	3	Vertical	312	2.47	-	27.70	3.64	-
AV	2.4835G	49.03	54.00	-4.97	17.69	3	Vertical	312	2.47	-	27.70	3.64	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

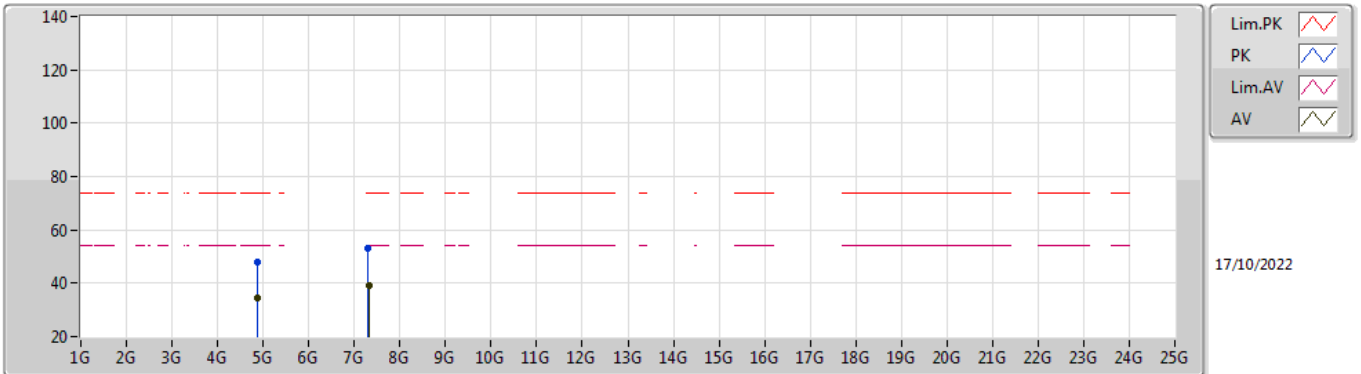


EUT_Z_2TX
Setting 72
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3862G	69.76	74.00	-4.24	38.63	3	Horizontal	58	1.35	-	27.54	3.59	-
AV	2.3898G	51.51	54.00	-2.49	20.36	3	Horizontal	58	1.35	-	27.56	3.59	-
PK	2.4278G	114.98	Inf	-Inf	83.83	3	Horizontal	58	1.35	-	27.54	3.61	-
AV	2.425G	105.21	Inf	-Inf	74.05	3	Horizontal	58	1.35	-	27.55	3.61	-
PK	2.4838G	73.05	74.00	-0.95	41.71	3	Horizontal	58	1.35	-	27.70	3.64	-
AV	2.4835G	53.66	54.00	-0.34	22.32	3	Horizontal	58	1.35	-	27.70	3.64	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

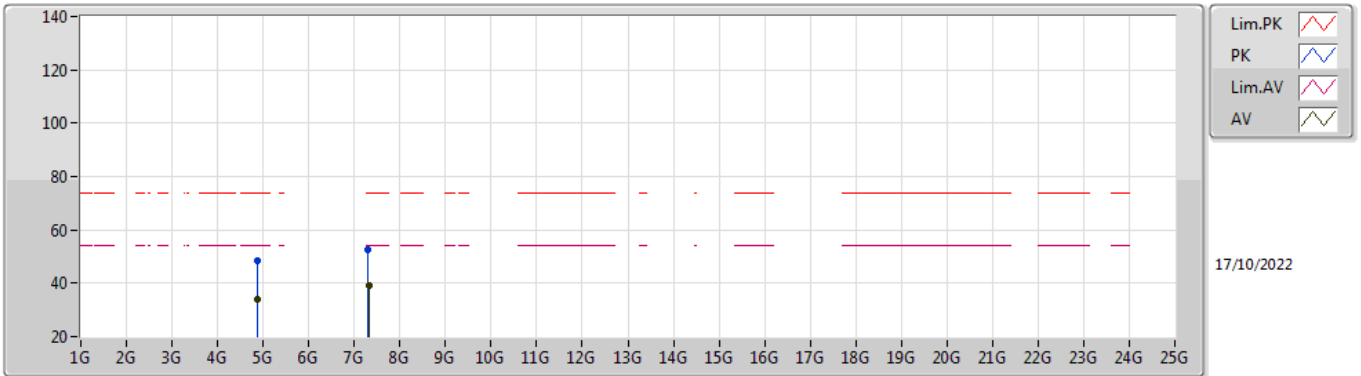


EUT_V_2TX
Setting 72
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86674G	48.18	74.00	-25.82	42.76	3	Vertical	267	3.00	-	32.53	5.77	32.88
AV	4.874G	34.29	54.00	-19.71	28.85	3	Vertical	267	3.00	-	32.55	5.77	32.88
PK	7.30938G	53.02	74.00	-20.98	41.77	3	Vertical	138	1.80	-	37.28	7.15	33.18
AV	7.31556G	39.10	54.00	-14.90	27.85	3	Vertical	138	1.80	-	37.27	7.16	33.18

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

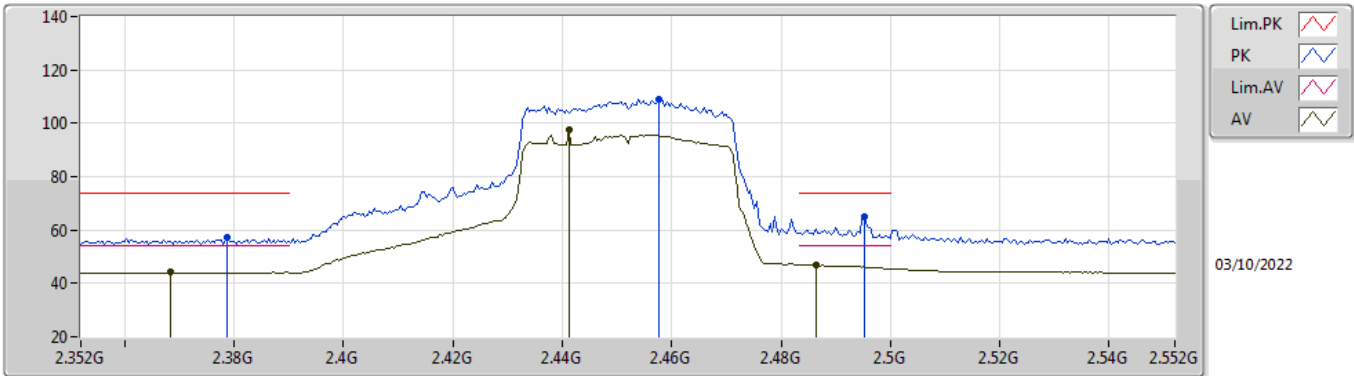


EUT Y_2TX
Setting 72
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88114G	48.37	74.00	-25.63	42.90	3	Horizontal	100	1.79	-	32.56	5.78	32.87
AV	4.87928G	34.13	54.00	-19.87	28.66	3	Horizontal	100	1.79	-	32.56	5.78	32.87
PK	7.30182G	52.84	74.00	-21.16	41.57	3	Horizontal	338	1.90	-	37.30	7.15	33.18
AV	7.31094G	38.89	54.00	-15.11	27.63	3	Horizontal	338	1.90	-	37.28	7.16	33.18

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

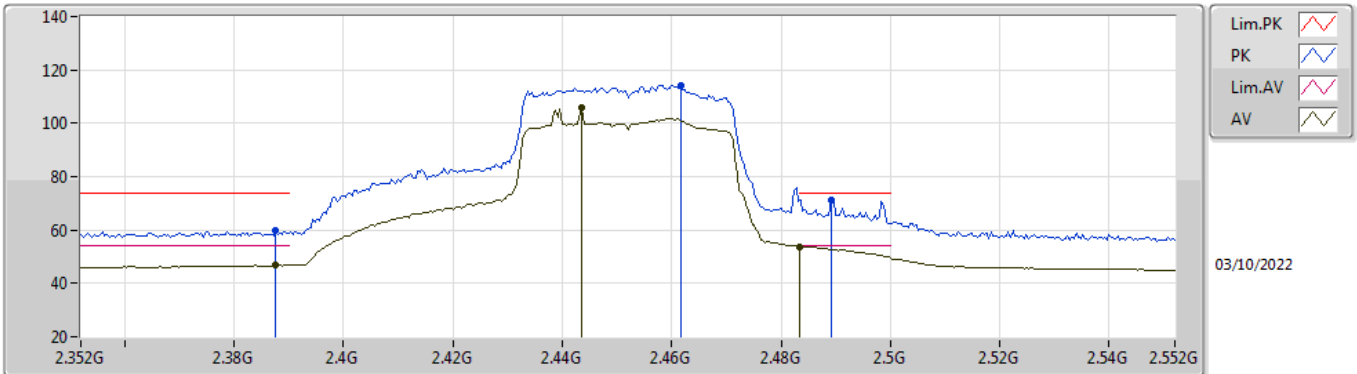


EUT_Z_2TX
Setting 71
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3788G	56.99	74.00	-17.01	25.69	3	Vertical	230	3.00	-	27.52	3.78	-
AV	2.3684G	44.17	54.00	-9.83	12.93	3	Vertical	230	3.00	-	27.47	3.77	-
PK	2.4576G	109.11	Inf	-Inf	77.73	3	Vertical	230	3.00	-	27.55	3.83	-
AV	2.4412G	97.75	Inf	-Inf	66.41	3	Vertical	230	3.00	-	27.52	3.82	-
PK	2.4952G	64.90	74.00	-9.10	33.28	3	Vertical	230	3.00	-	27.77	3.85	-
AV	2.4864G	47.14	54.00	-6.86	15.58	3	Vertical	230	3.00	-	27.72	3.84	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

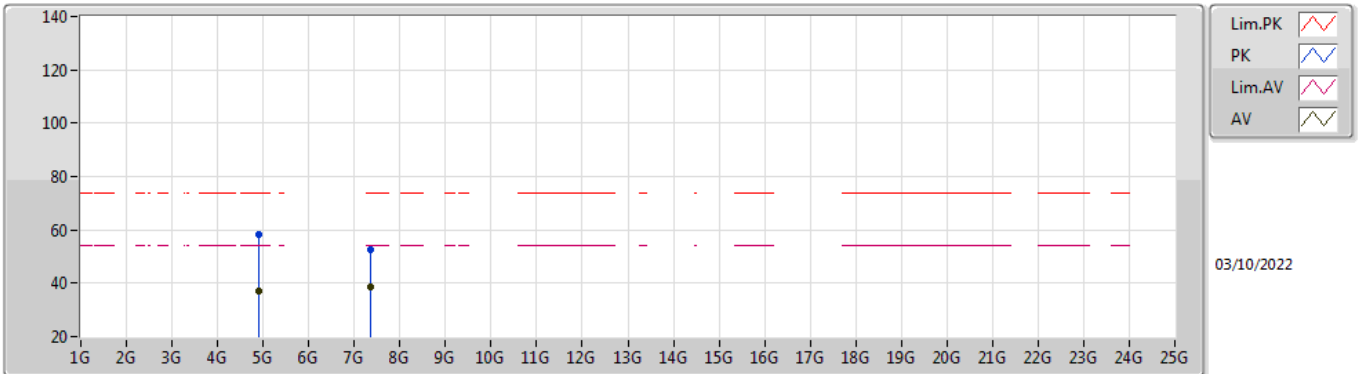


EUT_Z_2TX
Setting 71
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3876G	59.57	74.00	-14.43	28.23	3	Horizontal	340	2.98	-	27.55	3.79	-
AV	2.3876G	47.09	54.00	-6.91	15.75	3	Horizontal	340	2.98	-	27.55	3.79	-
PK	2.4616G	114.39	Inf	-Inf	82.99	3	Horizontal	340	2.98	-	27.57	3.83	-
AV	2.4436G	105.92	Inf	-Inf	74.59	3	Horizontal	340	2.98	-	27.51	3.82	-
PK	2.4892G	71.35	74.00	-2.65	39.77	3	Horizontal	340	2.98	-	27.74	3.84	-
AV	2.4835G	53.75	54.00	-0.25	22.21	3	Horizontal	340	2.98	-	27.70	3.84	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

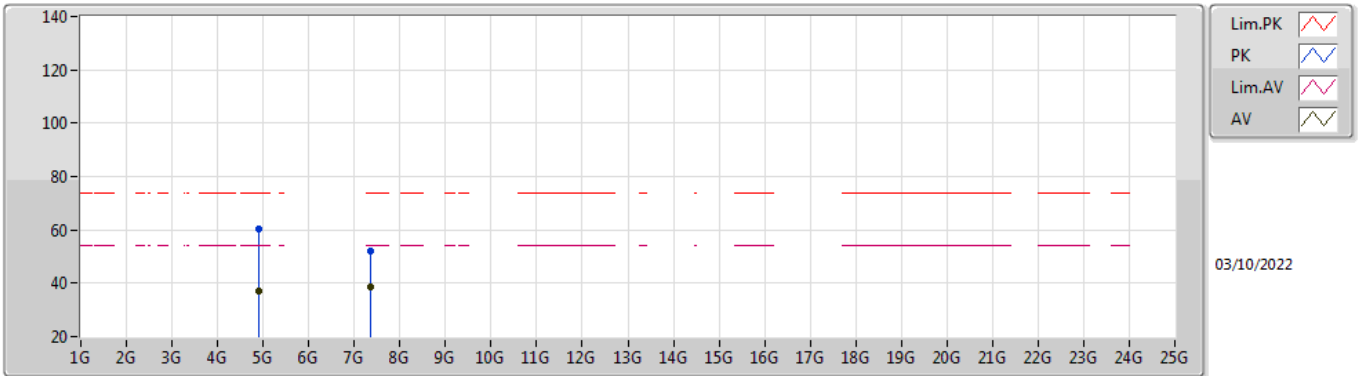


EUT_V_2TX
Setting 71
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90726G	58.33	74.00	-15.67	52.28	3	Vertical	233	2.02	-	32.61	6.31	32.87
AV	4.899G	37.16	54.00	-16.84	31.13	3	Vertical	233	2.02	-	32.60	6.30	32.87
PK	7.35746G	52.49	74.00	-21.51	40.82	3	Vertical	17	2.79	-	37.20	7.68	33.21
AV	7.35914G	38.66	54.00	-15.34	26.99	3	Vertical	17	2.79	-	37.20	7.68	33.21

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX



EUT_V_2TX
Setting 71
01-A-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90304G	60.36	74.00	-13.64	54.32	3	Horizontal	261	2.07	-	32.61	6.30	32.87
AV	4.90174G	37.07	54.00	-16.93	31.04	3	Horizontal	261	2.07	-	32.60	6.30	32.87
PK	7.35212G	52.13	74.00	-21.87	40.45	3	Horizontal	141	1.66	-	37.20	7.68	33.20
AV	7.36074G	38.70	54.00	-15.30	27.03	3	Horizontal	141	1.66	-	37.20	7.68	33.21



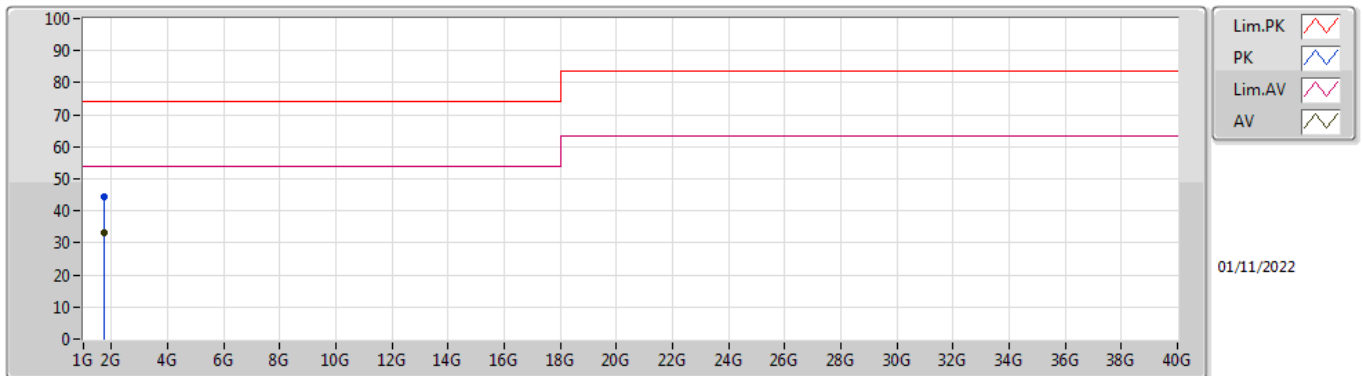
Radiated Emissions Co-location test

Appendix G

Summary

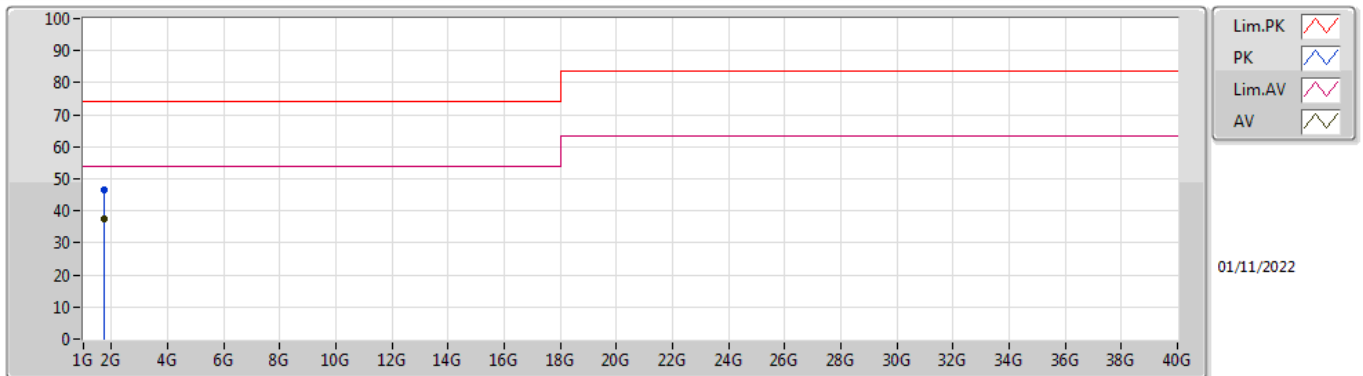
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.73804G	37.49	54.00	-16.51	Horizontal

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	1.7405G	44.54	74.00	-29.46	-7.55	3	Vertical	129	1.52	-	52.09	25.12	3.74	36.41
AV	1.74065G	33.20	54.00	-20.80	-7.54	3	Vertical	129	1.52	"Worst"	40.74	25.13	3.74	36.41

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	1.74044G	46.49	74.00	-27.51	-7.55	3	Horizontal	246	1.51	-	54.04	25.12	3.74	36.41
AV	1.73804G	37.49	54.00	-16.51	-7.57	3	Horizontal	246	1.51	"Worst"	45.06	25.10	3.74	36.41