



RADIO TEST REPORT

FCC ID : 2AHKM-CGNV5U
Equipment : D3.0 24x8 P6 WAV654 2+2 DBCC WiFi GW
Brand Name : Hitron
Model Name : CGNV5-U
Applicant : Hitron Technologies Inc.
No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park,
Hsinchu 30078, Taiwan
Manufacturer : Hitron Technologies Inc.
No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park,
Hsinchu 30078, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 08, 2022, and testing was started from Mar. 09, 2022 and completed on Mar. 14, 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
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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:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. 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: Jessie Wei**



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), ax (HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), ax (HEW40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	11b	20	1TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11ax HEW40	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.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz					
1	1	-	LNywave	ALX21P-051AA6-00	Dipole Antenna	I-PEX	Note1
2	2	-	LNywave	ALX22P-051AA0-00	Dipole Antenna	I-PEX	
3	-	1	LNywave	ALX21P-092AA3-00	PIFA Antenna	I-PEX	
4	-	2	LNywave	ALX22P-092AA0-00	PIFA Antenna	I-PEX	

Note1:

Port		Gain (dBi)				
2.4GHz	5GHz	2400MHz	2450MHz	2500MHz	5150~5250MHz	5725~5850MHz
1	-	2.8	2.9	3	-	-
2	-	2.4	3	2.9	-	-
-	1	-	-	-	3.4	5
-	2	-	-	-	3.9	4.6

Note2: The above information was declared by manufacturer.

The EUT supports the antenna with TX and RX diversity functions.

For 2.4GHz function:**For IEEE 802.11 b mode (1TX/1RX)**

Both Port 1 and Port 2 can be used as transmitting/receiving functions, but only one antenna can be used as transmitting/receiving functions at one time.

Both of them were tested and recorded in the report.

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

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

Both Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:**For IEEE 802.11a/n/ac/ax mode (2TX/2RX)**

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

Both Port 1 and Port 2 could transmit/receive simultaneously.

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

Ex.

Directional Gain (NSS1) formula :

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

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,2) = 10^{G3/20} ; NSS1(g1,2) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

G1 = Ant 1 Gain ; G2 = Ant 2 Gain ; G3 = Ant 3 Gain ; G4 = Ant 4 Gain ;

2.412 & 2.422 GHz DG = 5.61 dBi

2.437 GHz DG = 5.96 dBi

2.452 & 2.462 GHz DG = 5.96 dBi

5 GHz U-NII-1 DG = 6.66 dBi

5 GHz U-NII-3 DG = 7.81 dBi

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
11b,Ant 1	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
11b,Ant 2	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.992	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	Intel DUT V610.36			

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Owen Hsu	24~25.5 / 61~62	Mar. 09, 2022~ Mar. 14, 2022
Radiated below 1GHz	03CH05-CB	KJ Chang	22.4~23.2 / 61~63	Mar. 09, 2022~ Mar. 14, 2022
Radiated above 1GHz	03CH04-CB	Simmon Cheng	22.3~23.4 / 56~59	Mar. 09, 2022~ Mar. 12, 2022
AC Conduction	CO01-CB	Peter Wu	23~24 / 58~59	Mar. 14, 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)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)	-
2412MHz	28
2437MHz	24
2462MHz	26.5
11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)	-
2412MHz	27
2437MHz	28
2462MHz	27
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	22
2417MHz	23
2437MHz	28
2457MHz	22.5
2462MHz	21.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	20.5
2417MHz	22.5
2437MHz	27.5
2457MHz	22.5
2462MHz	20.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	18.5
2437MHz	20.5
2452MHz	20.5

Note: Evaluated HEW20/HEW40 mode only, due to similar modulation. The power setting of HT20/HT40 mode are the same or lower than HEW20/HEW40.

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 + Adapter 1
2	EUT + Adapter 2
For operating mode 2 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT in X axis + Adapter 1
2	EUT in Y axis + Adapter 1
3	EUT in Z axis + Adapter 1
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT in Z axis + Adapter 2
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found as below. So the measurement will follow this same test configuration.	
1	For 11b,Ant 1: EUT in Z axis
2	For 11b,Ant 2: EUT in Z axis for Harmonic and EUT in Y axis for Bandedge
3	For 802.11g and 802.11ax: EUT in Z axis for Harmonic and EUT in X axis for Bandedge



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.: FA230412 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	APD	WA-30P12FU	INPUT: 100-240V~50-60Hz, 0.9A Max. OUTPUT: 12V, 2.5A
Adapter 2	MOSO	MSA-C2500IS12.0-30I-US	INPUT: 100-240V~50/60Hz, 1.0A max. OUTPUT: 12V, 2.5A
Others			
RJ-45 cable*1: Non-shielded, 1.5m			



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	Phone	SAMPO	HT-B 907WL	N/A
C	CO (Terminal System)	Jinghong	CMTS JH-HE3416B	N/A
D	CO NB (Terminal System)	Lenovo	X280	N/A
E	Phone	SAMPO	HT-B 907WL	N/A
F	Flash disk3.0	Transcend	JetFlash-700	N/A
G	2.4G NB	DELL	E6430	N/A
H	5G NB	DELL	E6430	N/A
A	LAN NB	DELL	E6430	N/A

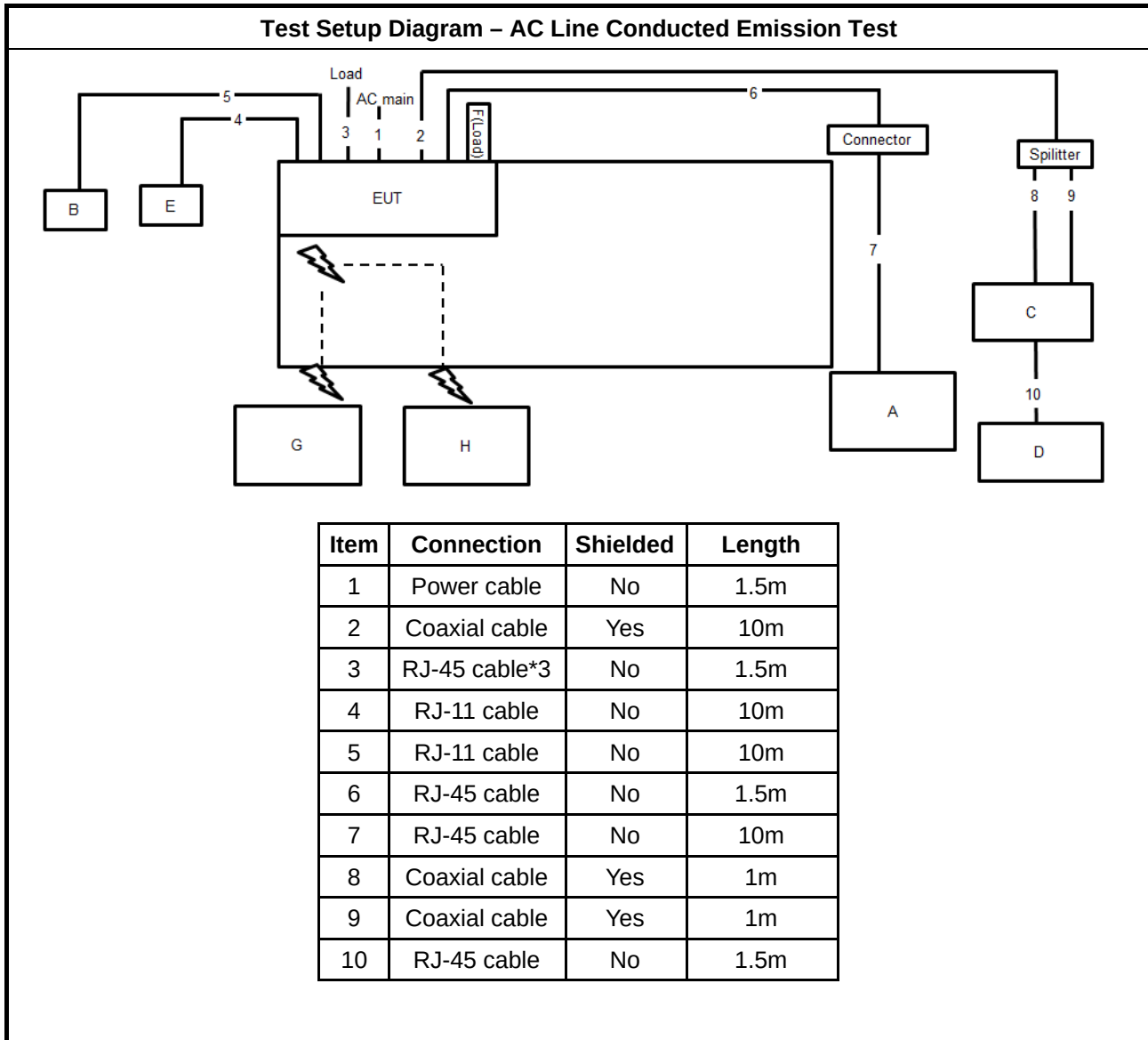
For Radiated (below 1GHz):

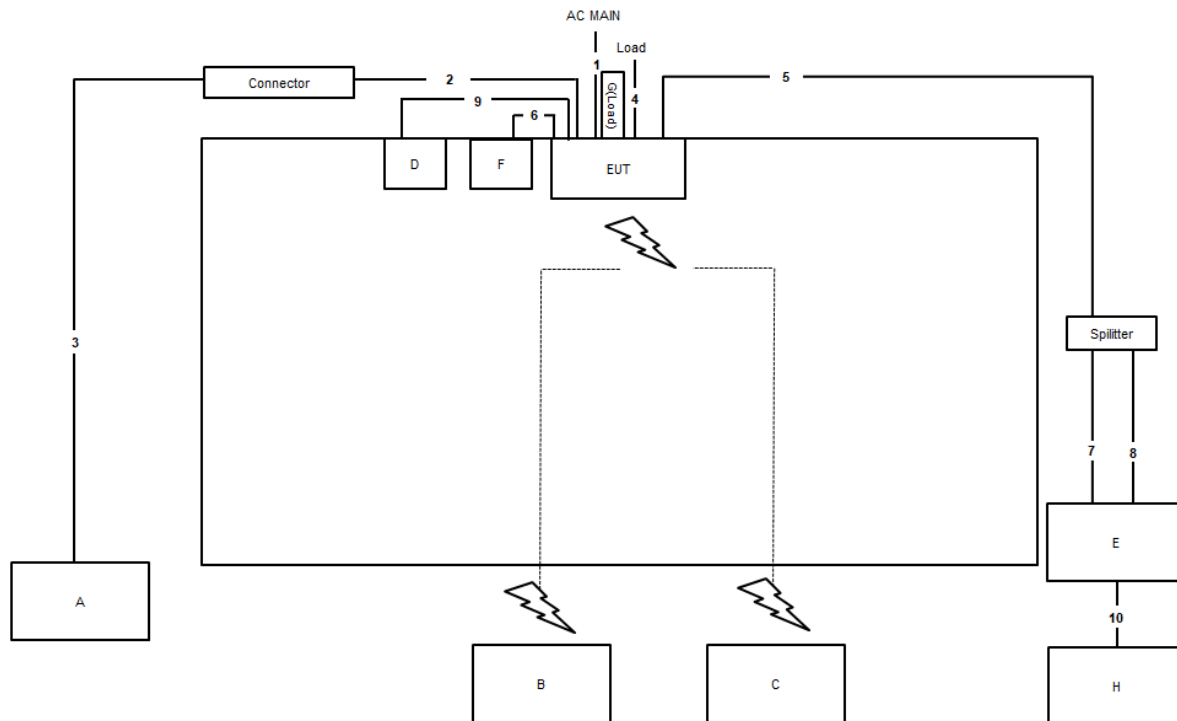
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E4300	N/A
B	2.4G NB	DELL	E4300	N/A
C	5G NB	DELL	E4300	N/A
D	Phone	SAMPO	HT-B 907WL	N/A
E	CO (Terminal System)	Jinghong	CMTS JH-HE3416B	N/A
F	Phone	H-T-T	F-689	N/A
G	Flash disk3.0	Silicon Power	B06	N/A
H	CO NB (Terminal System)	Lenovo	X280	N/A

For Radiated (above 1GHz) and RF Conducted:

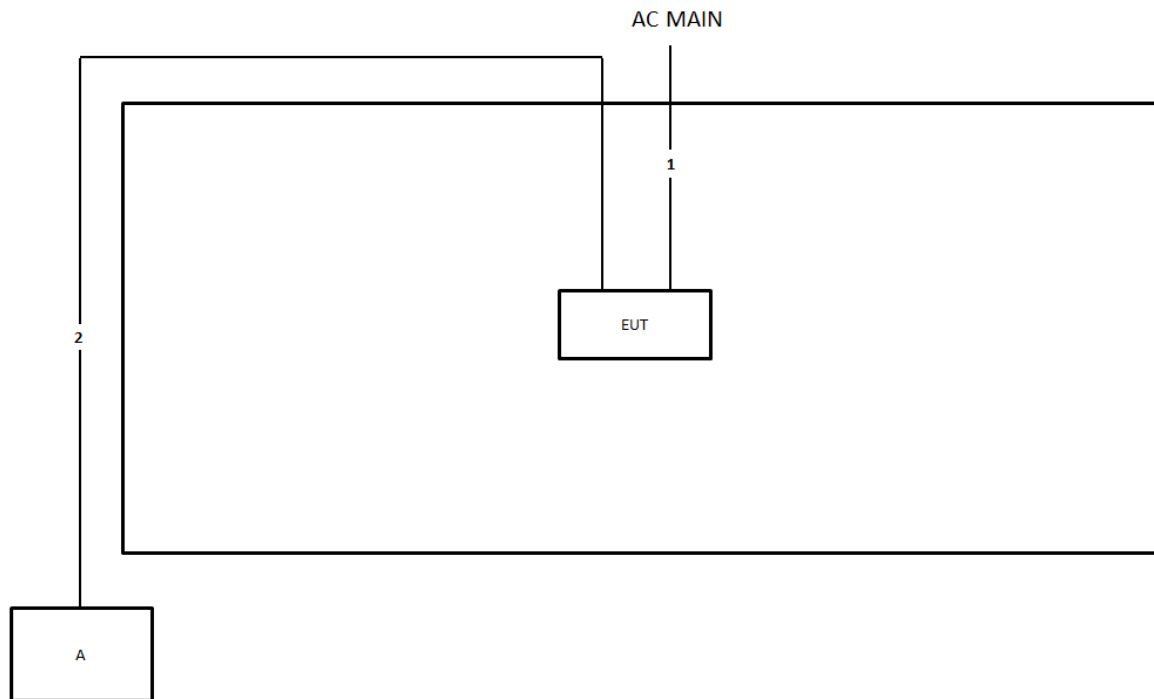
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable*3	No	10m
5	Coaxial cable	Yes	10m
6	RJ-11 cable	No	1.5m
7	Coaxial cable	Yes	1m
8	Coaxial cable	Yes	1m
9	RJ-11 cable	No	1.5m
10	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz


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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

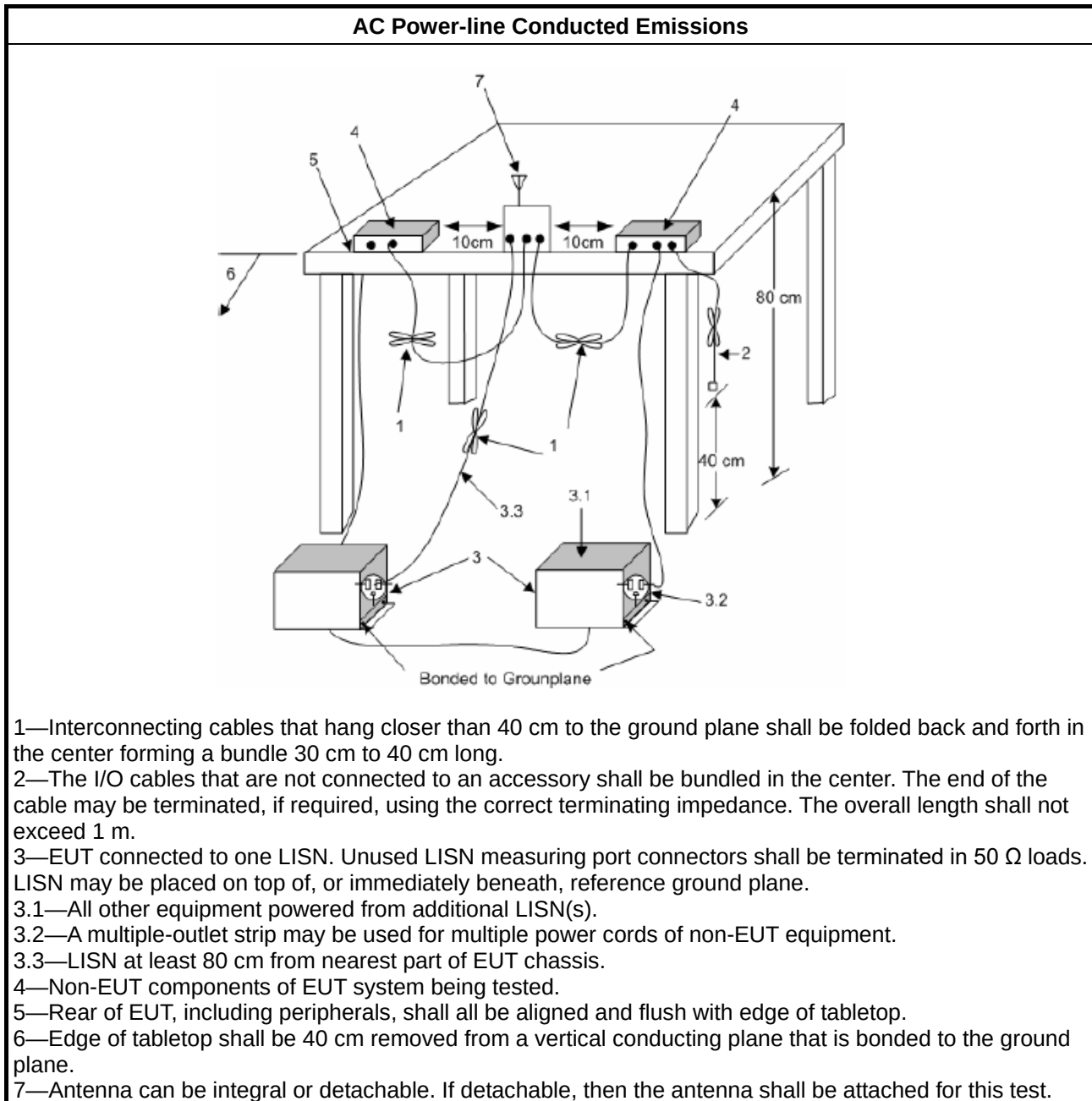
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



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.

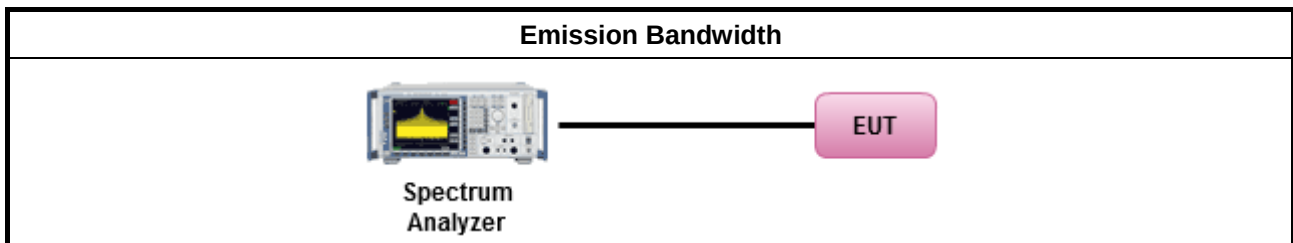
3.2.2 Measuring Instruments

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.	

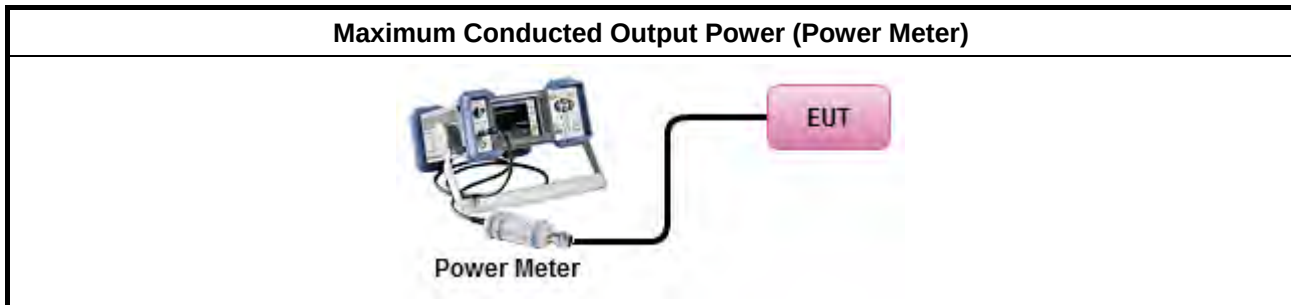
3.3.2 Measuring Instruments

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

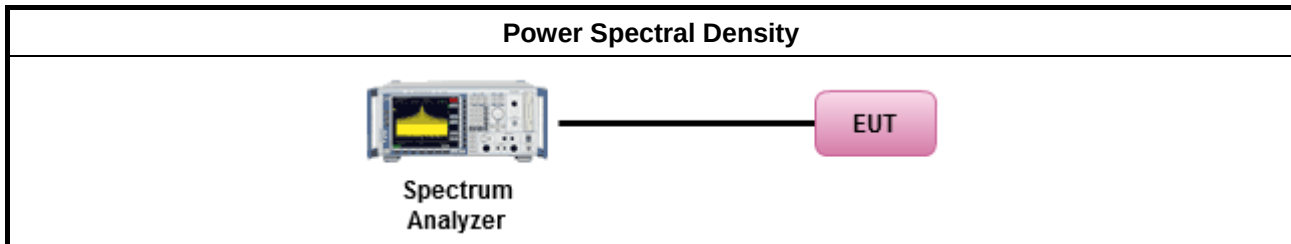
3.4.2 Measuring Instruments

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.	

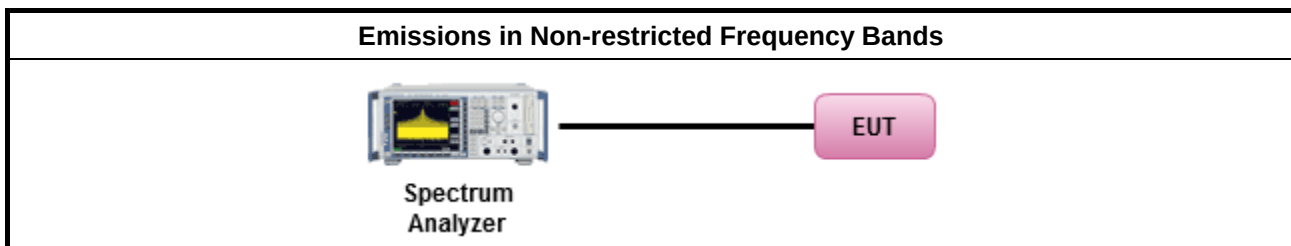
3.5.2 Measuring Instruments

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

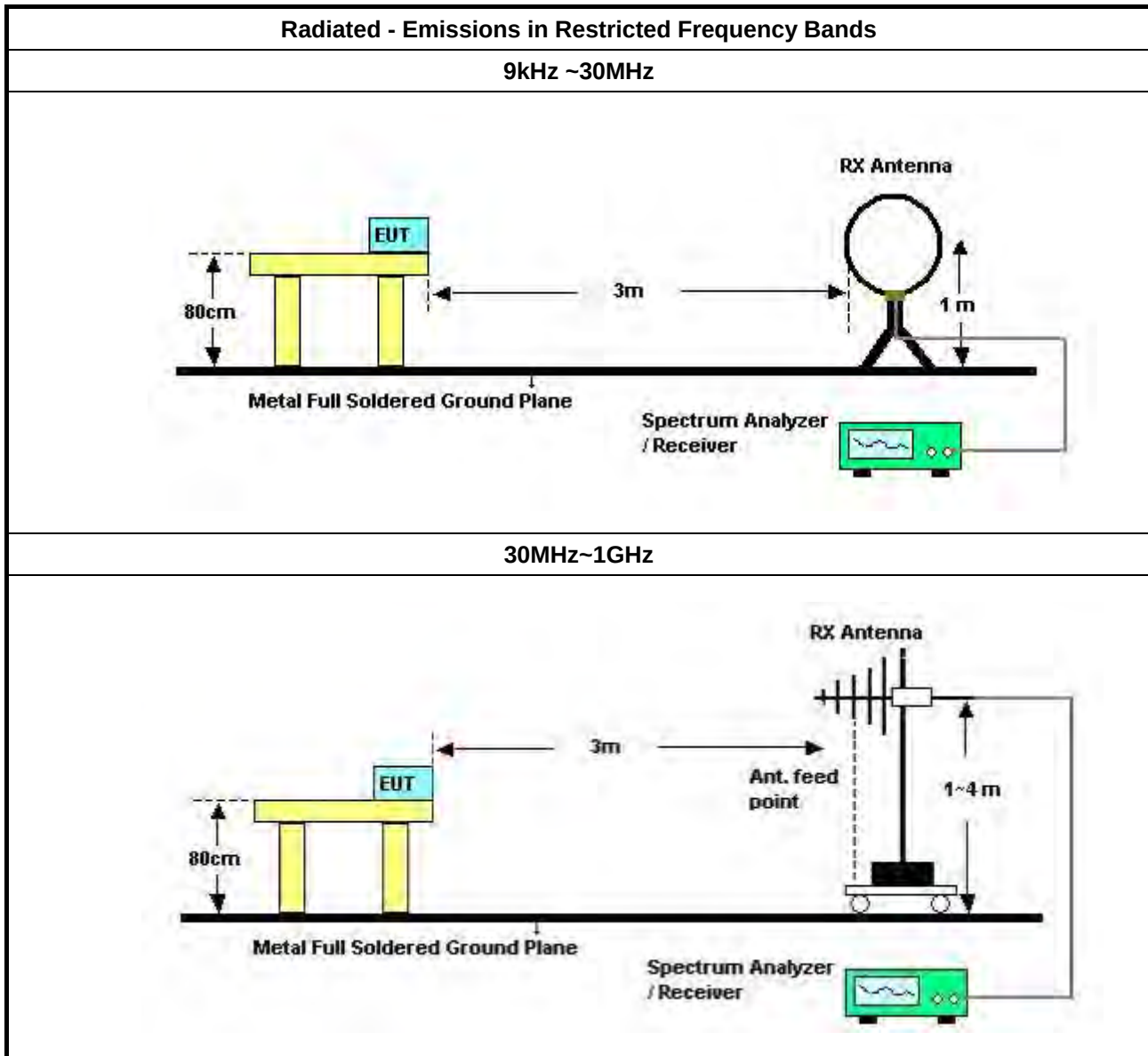
Refer a test equipment and calibration data table in this test report.

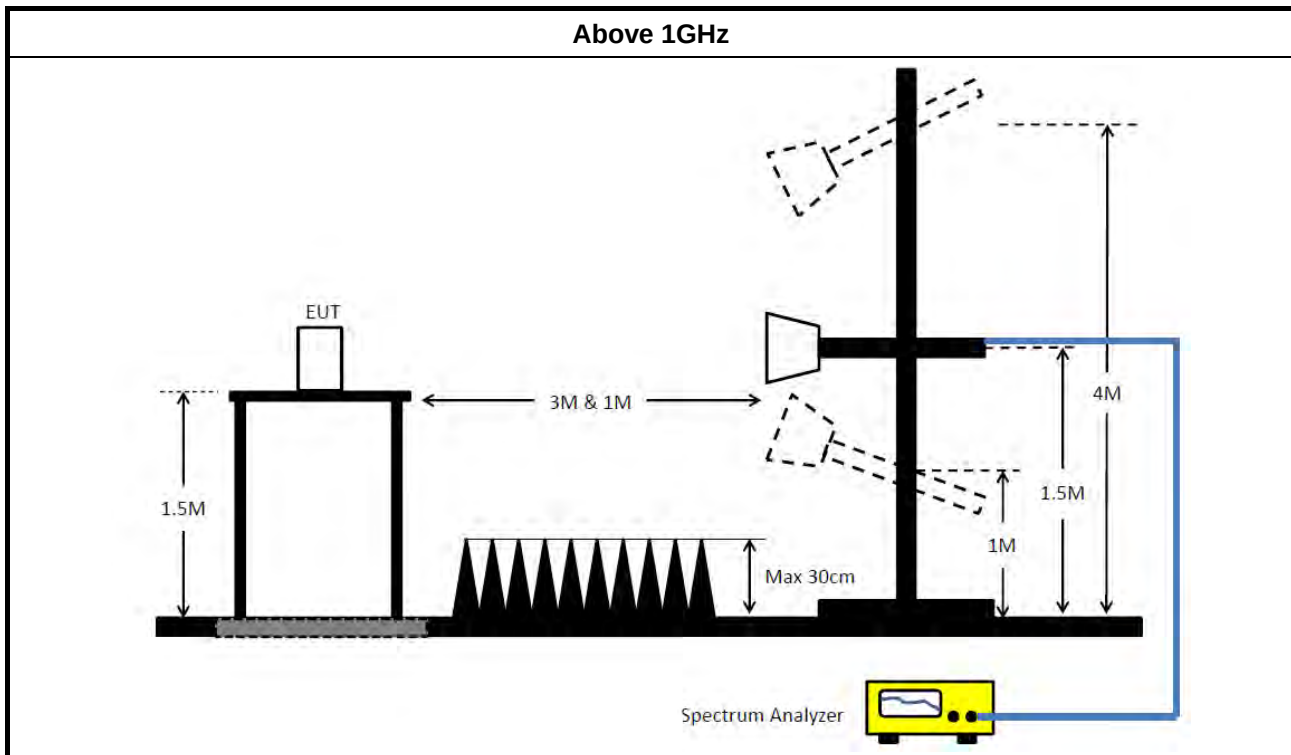


3.6.3 Test Procedures

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-50-1 6-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 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 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz ~ 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH04-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH04-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 15, 2021	Apr. 14, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 21, 2021	May 20, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
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

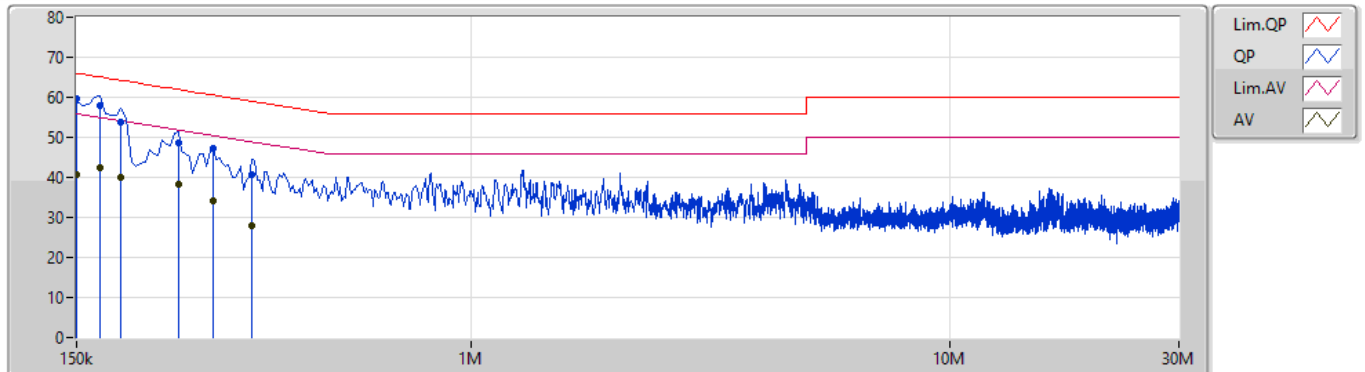
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	150k	59.65	66.00	-6.35	Line

Mode 2

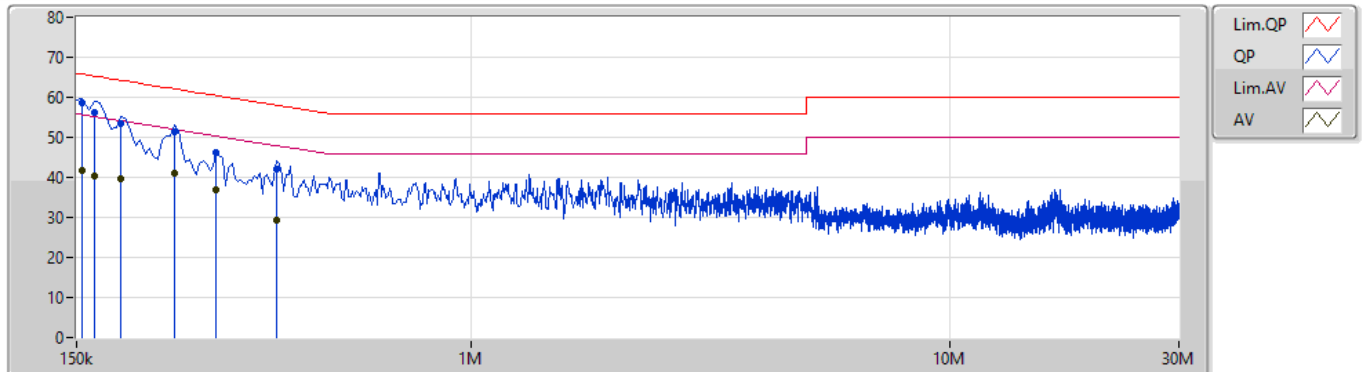
14/03/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	59.65	66.00	-6.35	10.03	Line	"Worst"	49.62	0.12	0.02	9.89			
AV	150k	40.83	56.00	-15.17	10.03	Line	-	30.80	0.12	0.02	9.89			
QP	168k	57.88	65.06	-7.18	10.03	Line	-	47.85	0.12	0.02	9.89			
AV	168k	42.47	55.06	-12.59	10.03	Line	-	32.44	0.12	0.02	9.89			
QP	186k	53.94	64.20	-10.26	10.03	Line	-	43.91	0.12	0.02	9.89			
AV	186k	40.00	54.20	-14.20	10.03	Line	-	29.97	0.12	0.02	9.89			
QP	244.5k	48.72	61.95	-13.23	10.03	Line	-	38.69	0.12	0.02	9.89			
AV	244.5k	38.18	51.95	-13.77	10.03	Line	-	28.15	0.12	0.02	9.89			
QP	289.5k	47.29	60.53	-13.24	10.03	Line	-	37.26	0.12	0.02	9.89			
AV	289.5k	34.07	50.53	-16.46	10.03	Line	-	24.04	0.12	0.02	9.89			
QP	348k	40.66	59.00	-18.34	10.03	Line	-	30.63	0.12	0.02	9.89			
AV	348k	28.08	49.00	-20.92	10.03	Line	-	18.05	0.12	0.02	9.89			

Mode 2

14/03/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.5k	58.67	65.75	-7.08	10.07	Neutral	"Worst"	48.60	0.16	0.02	9.89			
AV	154.5k	41.59	55.75	-14.16	10.07	Neutral	-	31.52	0.16	0.02	9.89			
QP	163.5k	56.32	65.27	-8.95	10.07	Neutral	-	46.25	0.16	0.02	9.89			
AV	163.5k	40.47	55.27	-14.80	10.07	Neutral	-	30.40	0.16	0.02	9.89			
QP	186k	53.44	64.20	-10.76	10.07	Neutral	-	43.37	0.16	0.02	9.89			
AV	186k	39.49	54.20	-14.71	10.07	Neutral	-	29.42	0.16	0.02	9.89			
QP	240k	51.45	62.10	-10.65	10.07	Neutral	-	41.38	0.16	0.02	9.89			
AV	240k	40.94	52.10	-11.16	10.07	Neutral	-	30.87	0.16	0.02	9.89			
QP	294k	46.04	60.42	-14.38	10.07	Neutral	-	35.97	0.16	0.02	9.89			
AV	294k	36.74	50.42	-13.68	10.07	Neutral	-	26.67	0.16	0.02	9.89			
QP	393k	42.07	58.01	-15.94	10.07	Neutral	-	32.00	0.16	0.02	9.89			
AV	393k	29.47	48.01	-18.54	10.07	Neutral	-	19.40	0.16	0.02	9.89			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)	8.525M	12.219M	12M2G1D	8.025M	11.569M
11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)	8.55M	12.469M	12M5G1D	8M	12.069M
802.11g_Nss1,(6Mbps)_2TX	16.55M	20.015M	20M0D1D	16.475M	16.742M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.1M	19.815M	19M8D1D	18.95M	18.991M
802.11ax HEW40_Nss1,(MCS0)_2TX	38.2M	38.731M	38M7D1D	38M	37.981M

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

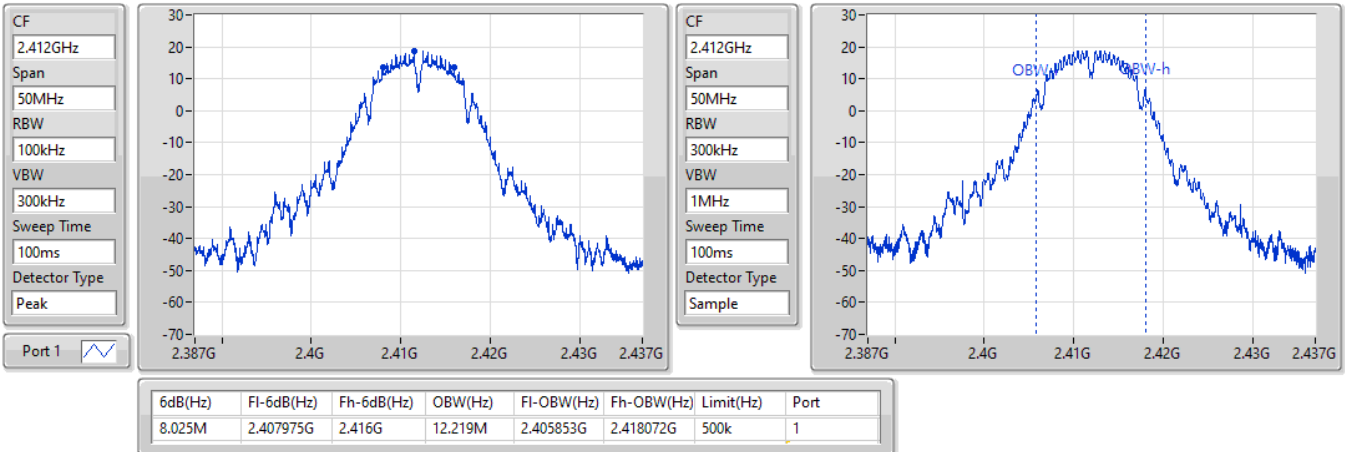
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)	-	-	-	-	-	-
2412MHz	Pass	500k	8.025M	12.219M	-	-
2437MHz	Pass	500k	8.525M	11.569M	-	-
2462MHz	Pass	500k	8.025M	11.819M	-	-
11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)	-	-	-	-	-	-
2412MHz	Pass	500k	-	-	8.5M	12.269M
2437MHz	Pass	500k	-	-	8M	12.469M
2462MHz	Pass	500k	-	-	8.55M	12.069M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.525M	16.742M	16.55M	16.767M
2437MHz	Pass	500k	16.475M	18.241M	16.55M	20.015M
2462MHz	Pass	500k	16.525M	16.767M	16.55M	16.792M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	19.1M	19.04M	18.95M	19.015M
2437MHz	Pass	500k	19.075M	19.39M	19.075M	19.815M
2462MHz	Pass	500k	19.05M	18.991M	19M	19.015M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	38.2M	38.381M	38.15M	38.731M
2437MHz	Pass	500k	38.15M	38.031M	38.15M	37.981M
2452MHz	Pass	500k	38.15M	38.081M	38M	38.131M

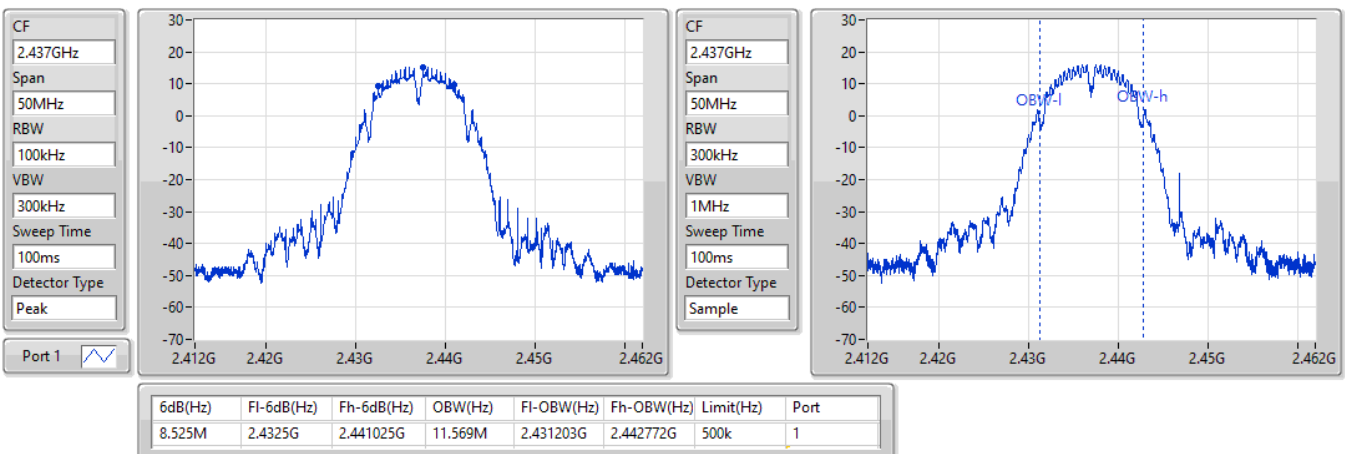
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)
EBW
2412MHz

14/03/2022

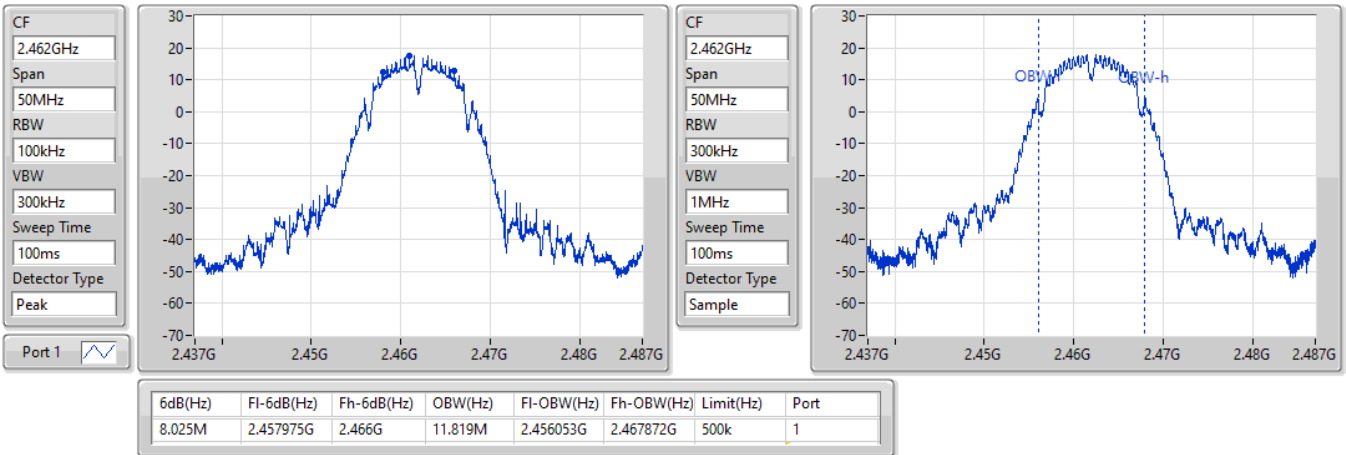

11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)
EBW
2437MHz

14/03/2022

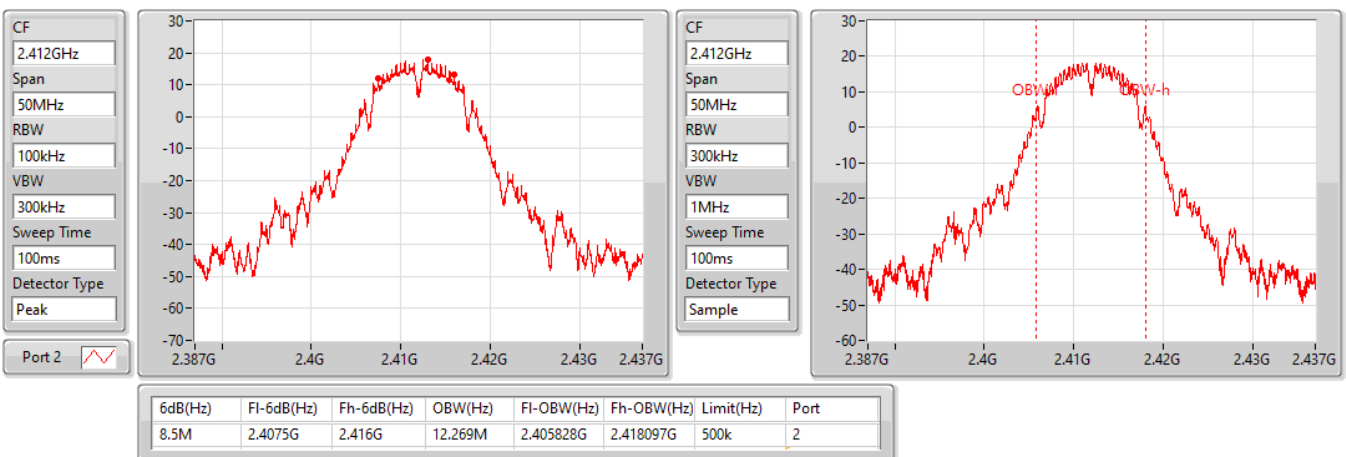


11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)
EBW
2462MHz

14/03/2022

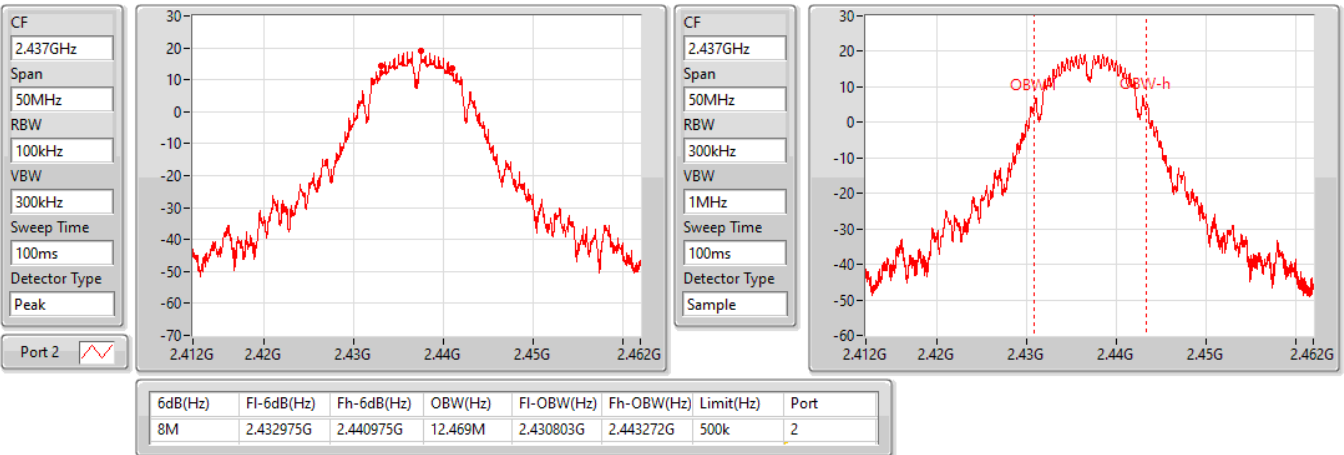

11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)
EBW
2412MHz

14/03/2022

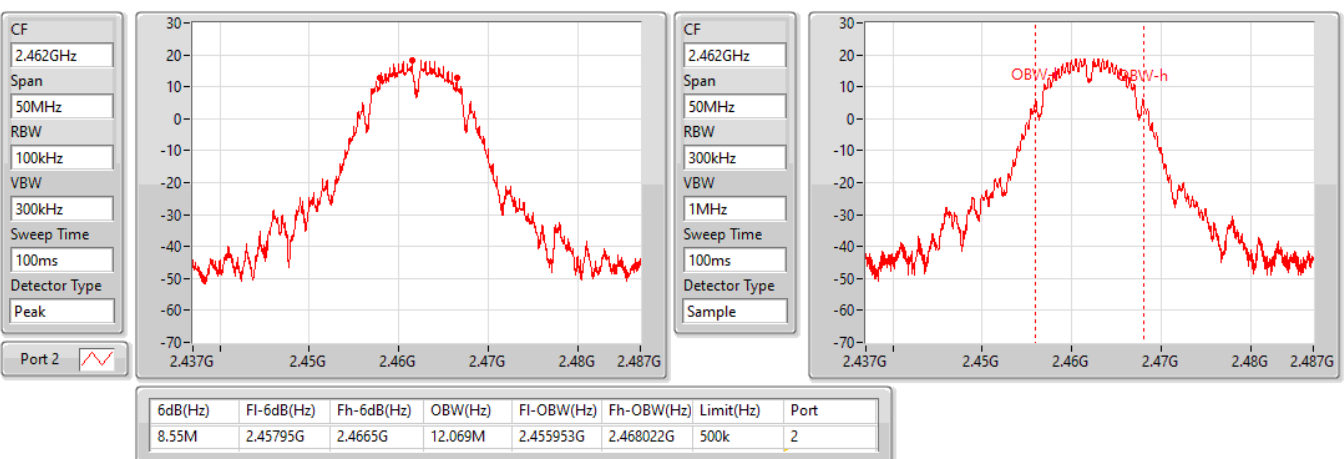


11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)
EBW
2437MHz

14/03/2022

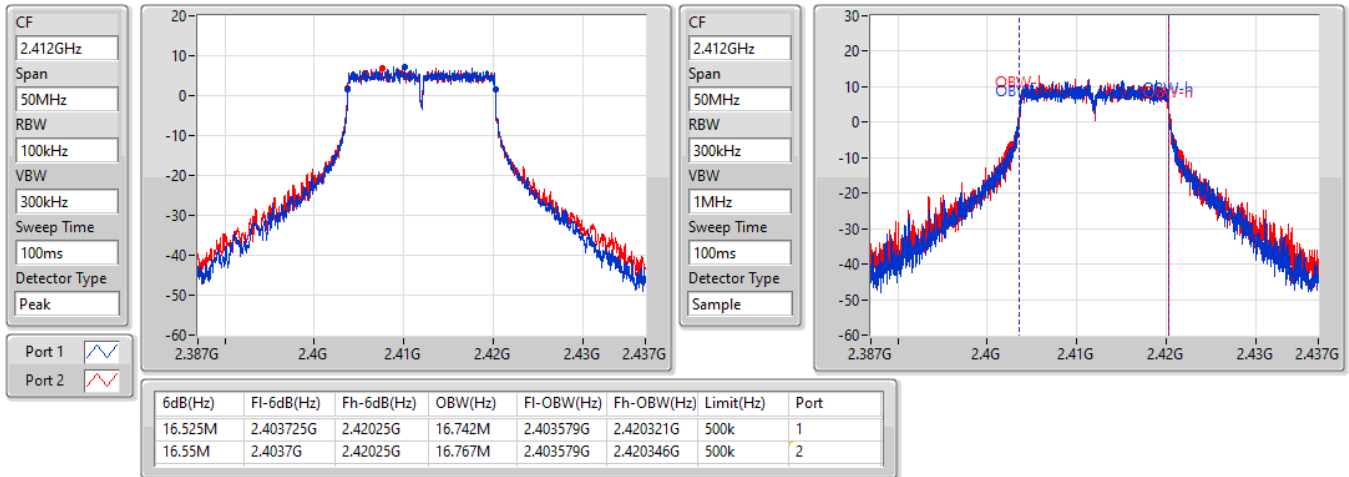

11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)
EBW
2462MHz

14/03/2022

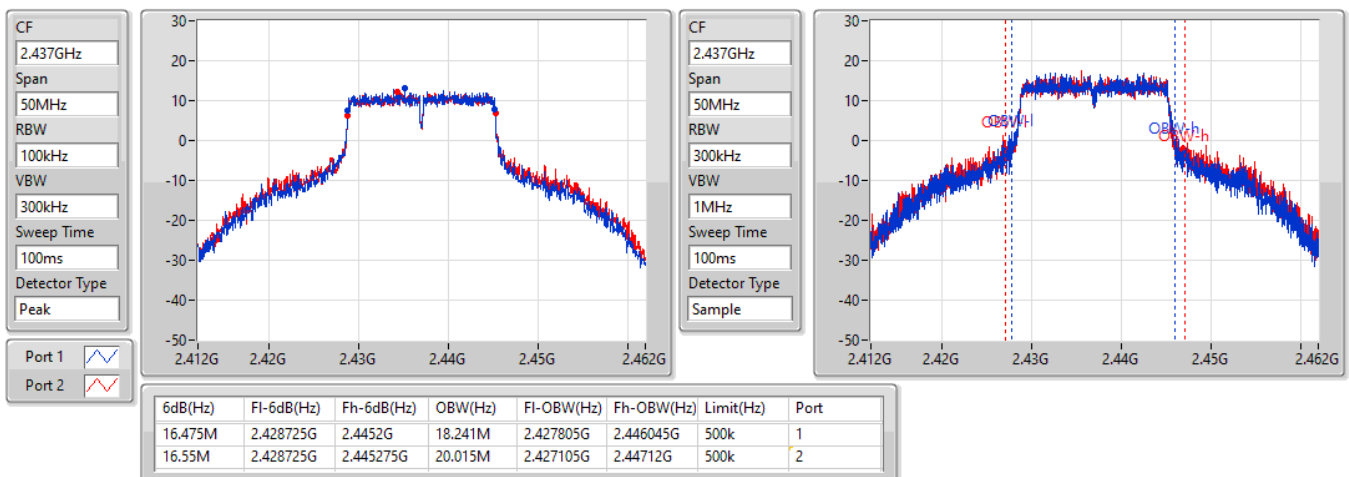


802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

14/03/2022


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

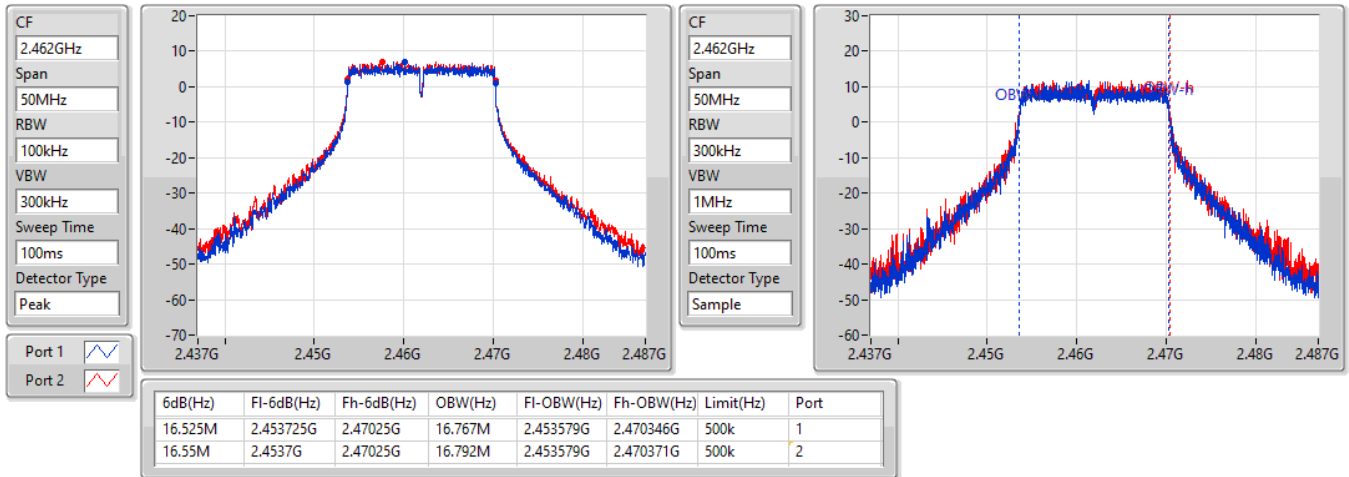
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802.11g_Nss1,(6Mbps)_2TX

2462MHz

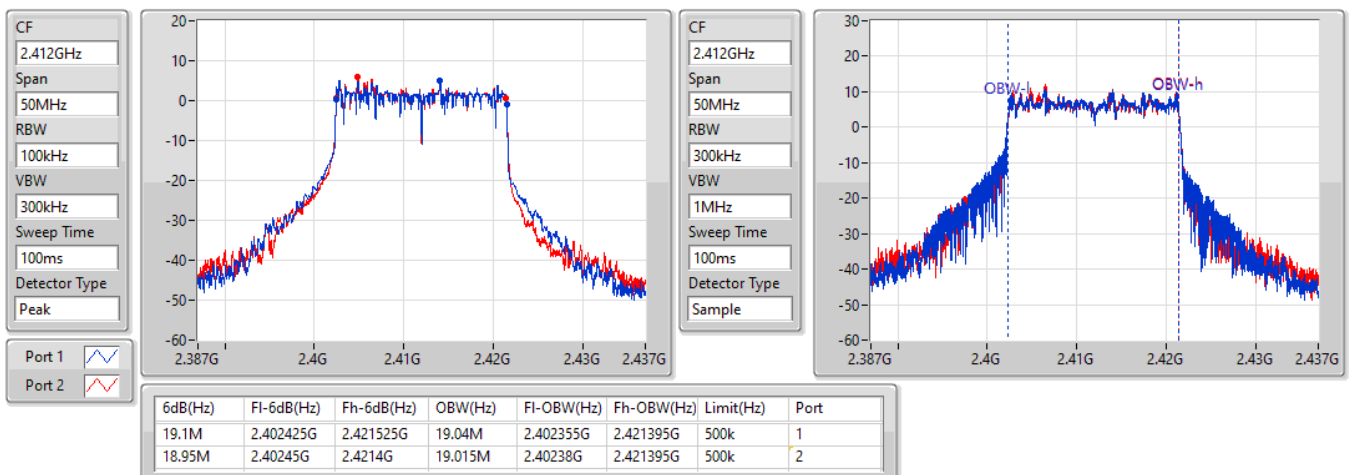
14/03/2022



802.11ax HEW20_Nss1,(MCS0)_2TX

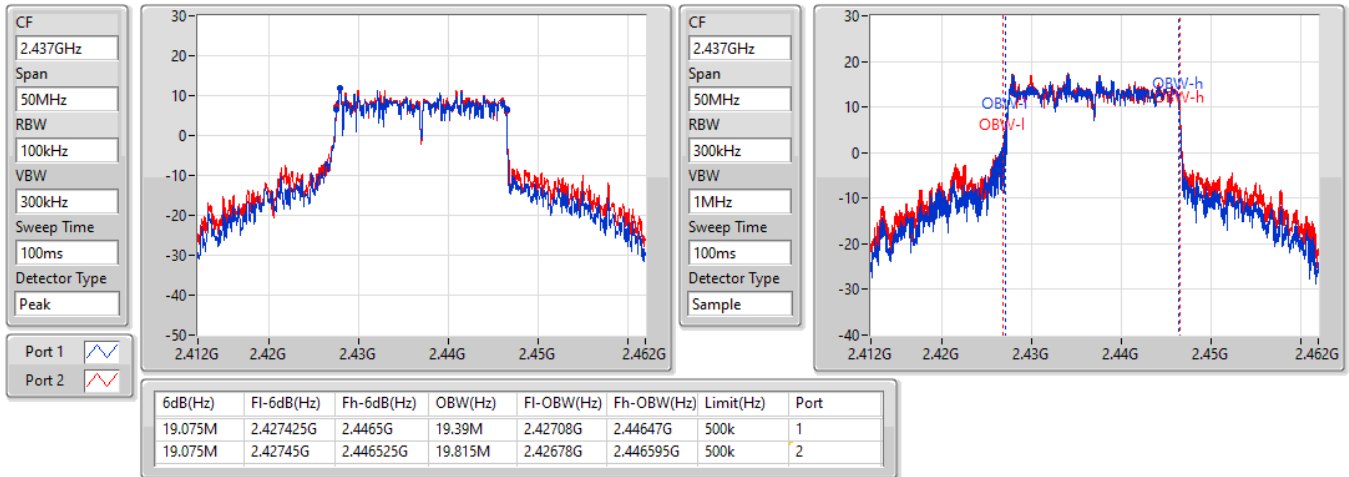
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14/03/2022

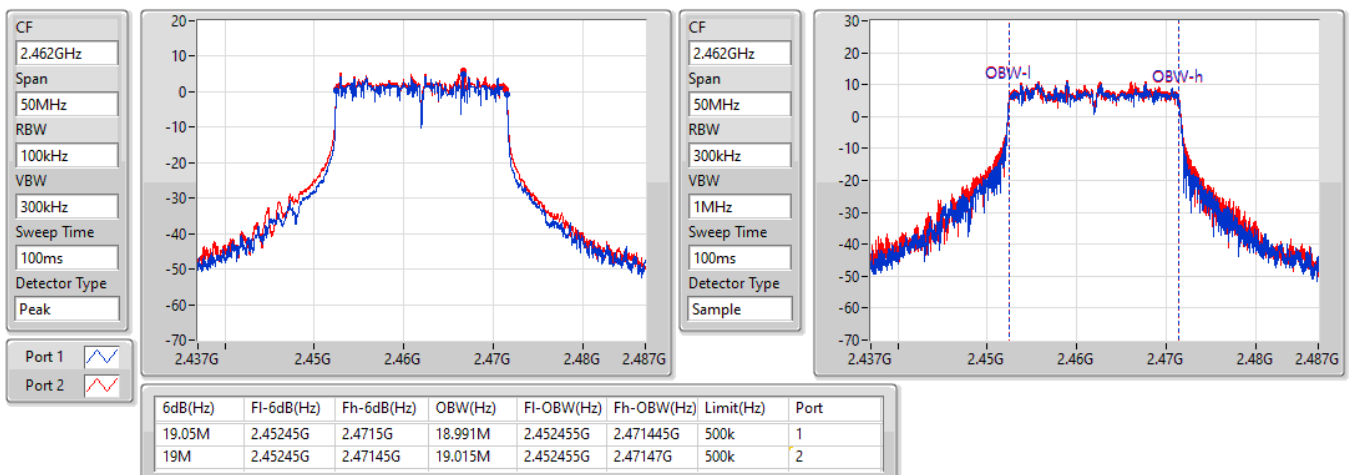


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2437MHz

14/03/2022


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2462MHz

14/03/2022

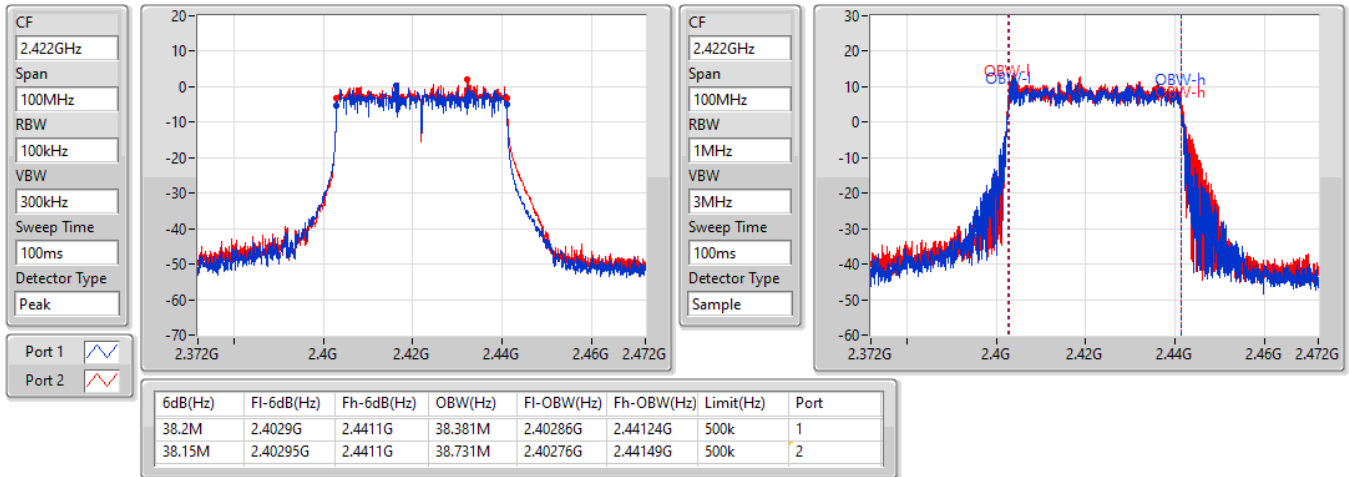


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2422MHz

14/03/2022

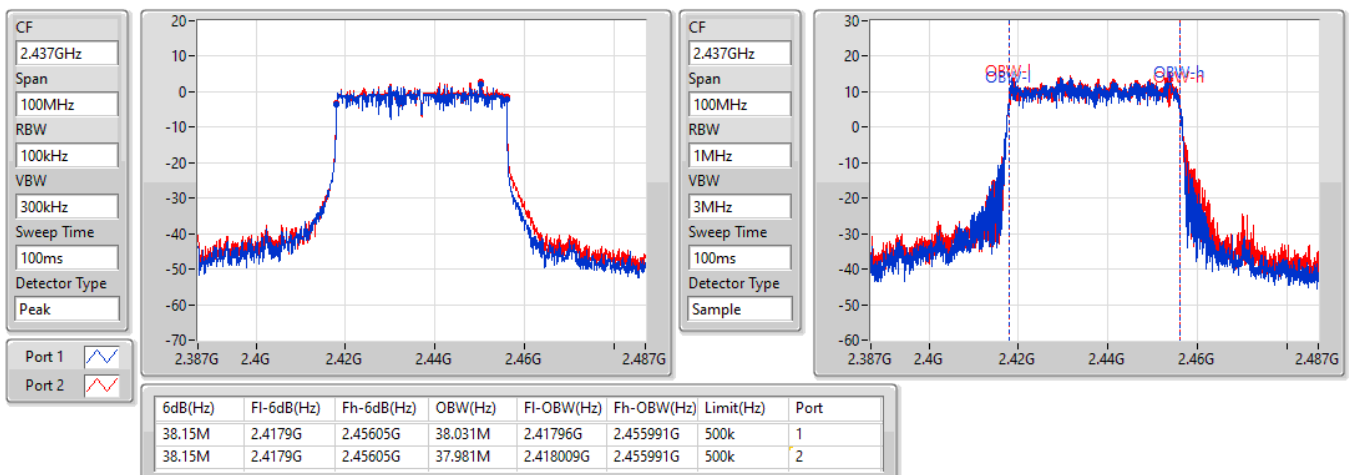


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2437MHz

14/03/2022

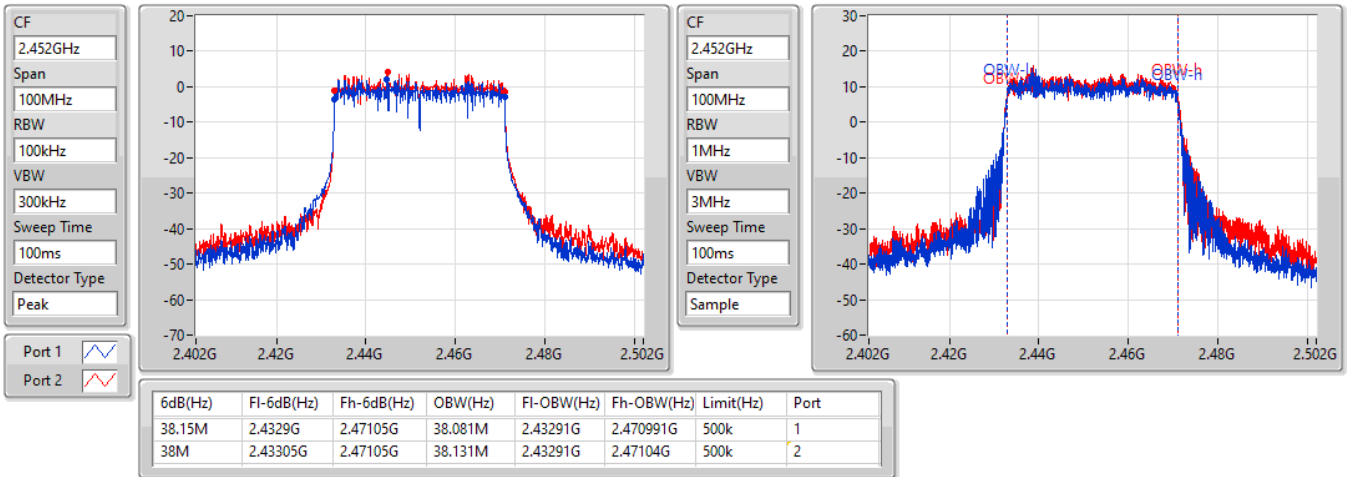


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2452MHz

14/03/2022





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)	26.89	0.48865
802.11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)	26.98	0.49888
802.11g_Nss1,(6Mbps)_2TX	29.32	0.85507
802.11ax HEW20_Nss1,(MCS0)_2TX	29.11	0.81470
802.11ax HEW40_Nss1,(MCS0)_2TX	23.44	0.22080

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)	-	-	-	-	-	-
2412MHz	Pass	2.80	26.89	-	26.89	30.00
2437MHz	Pass	2.90	23.83	-	23.83	30.00
2462MHz	Pass	3.00	25.72	-	25.72	30.00
11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)	-	-	-	-	-	-
2412MHz	Pass	2.40	-	26.21	26.21	30.00
2437MHz	Pass	3.00	-	26.98	26.98	30.00
2462MHz	Pass	2.90	-	26.71	26.71	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.80	20.97	21.18	24.09	30.00
2417MHz	Pass	2.80	21.77	22.12	24.96	30.00
2437MHz	Pass	3.00	26.31	26.3	29.32	30.00
2457MHz	Pass	3.00	21.52	21.87	24.71	30.00
2462MHz	Pass	3.00	20.44	21.12	23.80	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.80	19.94	19.95	22.96	30.00
2417MHz	Pass	2.80	21.79	21.71	24.76	30.00
2437MHz	Pass	3.00	25.96	26.24	29.11	30.00
2457MHz	Pass	3.00	21.02	21.65	24.36	30.00
2462MHz	Pass	3.00	19.6	20.25	22.95	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.80	17.92	18.67	21.32	30.00
2437MHz	Pass	3.00	19.98	20.83	23.44	30.00
2452MHz	Pass	3.00	19.77	20.77	23.31	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)	2.53
802.11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)	5.17
802.11g_Nss1,(6Mbps)_2TX	0.1
802.11ax HEW20_Nss1,(MCS0)_2TX	3.57
802.11ax HEW40_Nss1,(MCS0)_2TX	1.48

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)	-	-	-	-	-	-
2412MHz	Pass	2.80	2.53	-	2.53	8.00
2437MHz	Pass	2.90	0.17	-	0.17	8.00
2462MHz	Pass	3.00	2.28	-	2.28	8.00
11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)	-	-	-	-	-	-
2412MHz	Pass	2.40	-	3.18	3.18	8.00
2437MHz	Pass	3.00	-	3.48	3.48	8.00
2462MHz	Pass	2.90	-	5.17	5.17	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.61	-8.36	-7.88	-5.27	8.00
2437MHz	Pass	5.96	-2.76	-2.82	0.10	8.00
2462MHz	Pass	5.96	-8.04	-7.67	-5.29	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.61	0.24	0.86	3.57	8.00
2437MHz	Pass	5.96	-3.86	-4.14	-0.99	8.00
2462MHz	Pass	5.96	-0.48	0.18	2.71	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.61	-4.09	-3.46	-1.20	8.00
2437MHz	Pass	5.96	-1.91	-1.55	1.25	8.00
2452MHz	Pass	5.96	-1.76	-1.32	1.48	8.00

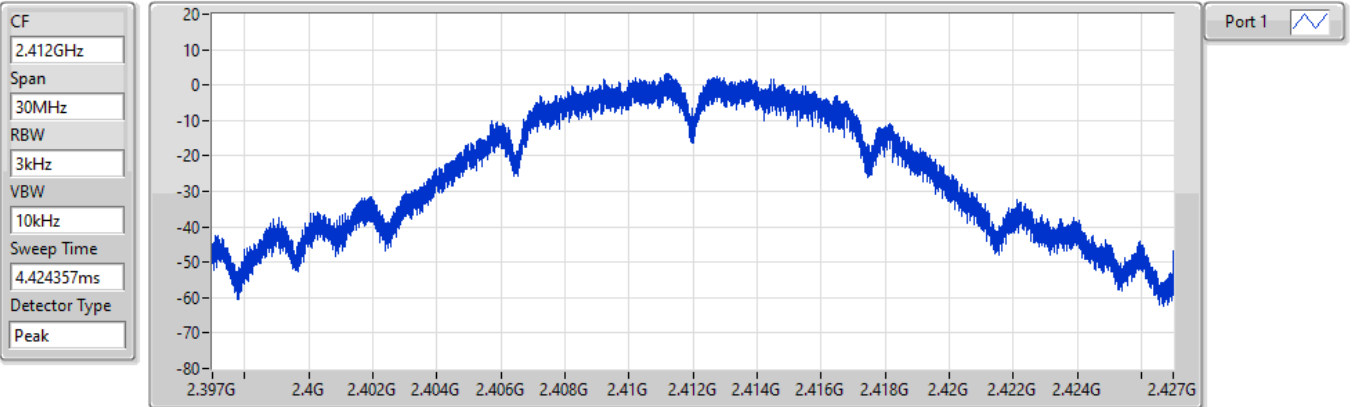
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)

PSD

2412MHz

14/03/2022



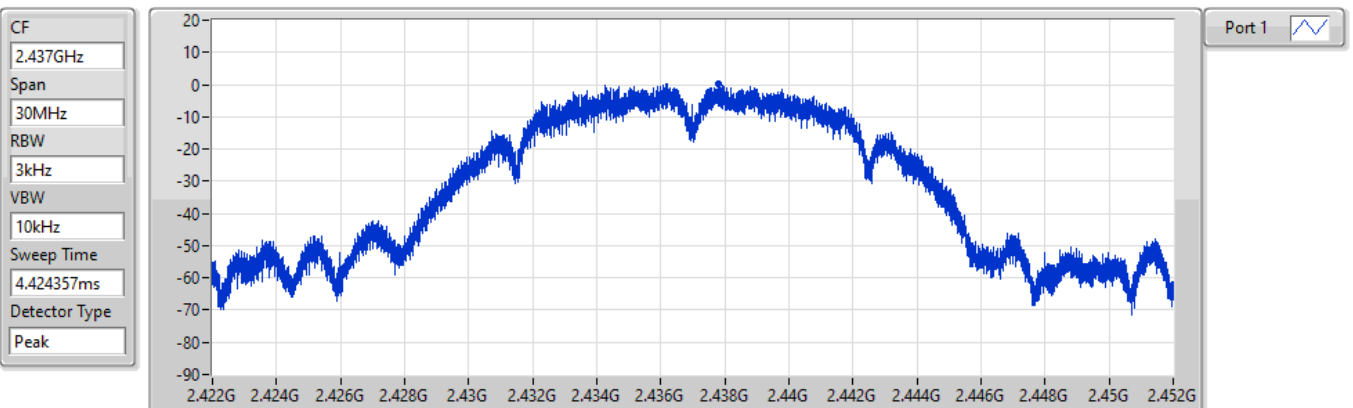
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.53	2.53	2.53

11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)

PSD

2437MHz

14/03/2022



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.17	0.17	0.17

11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)

PSD

2462MHz

14/03/2022

CF
2.462GHz

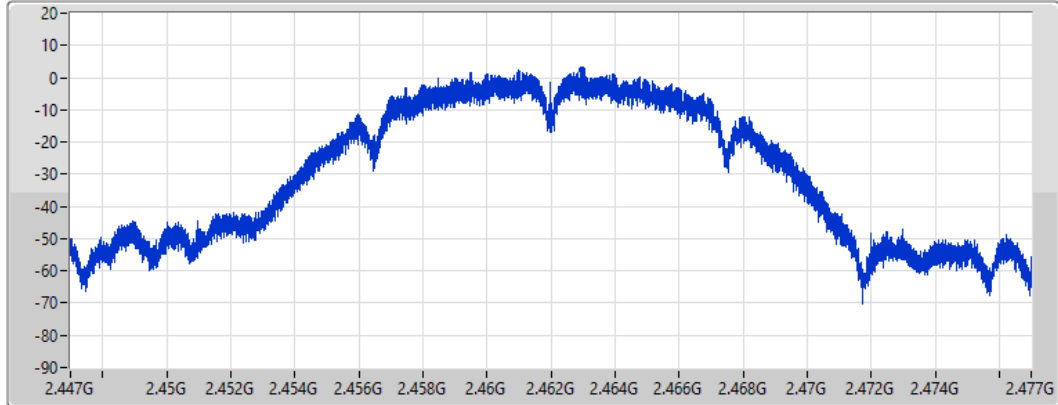
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.28	2.28	2.28

11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)

PSD

2412MHz

14/03/2022

CF
2.412GHz

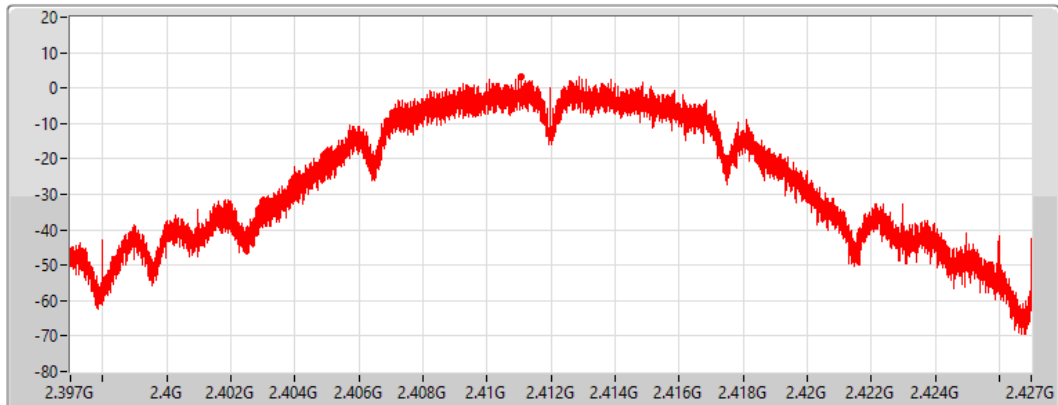
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Port 2

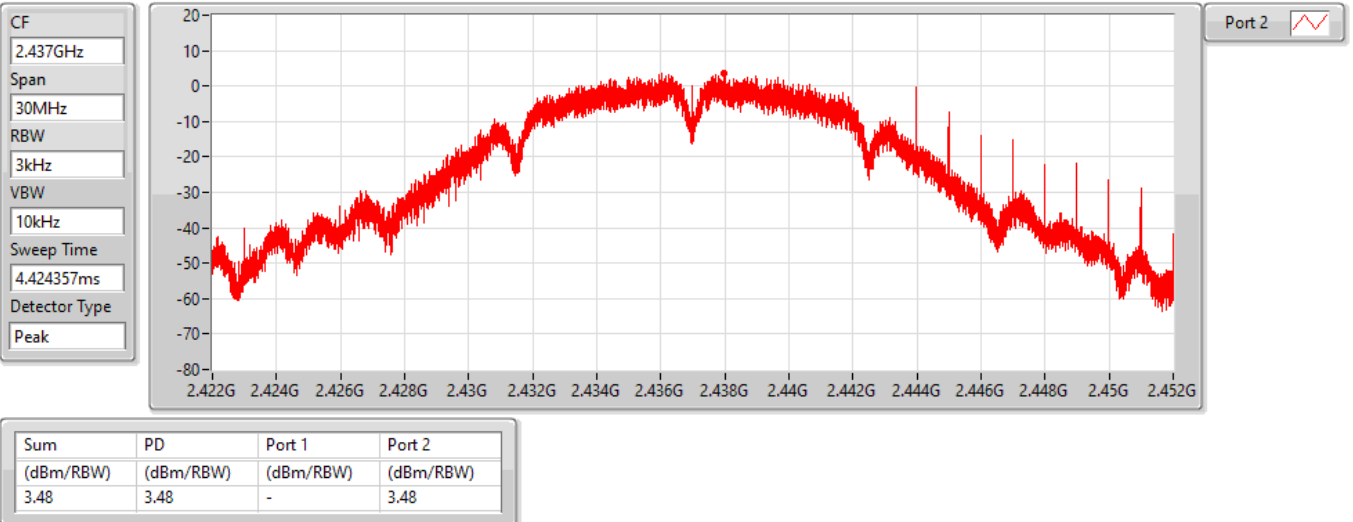
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.18	3.18	-	3.18

11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)

PSD

2437MHz

14/03/2022

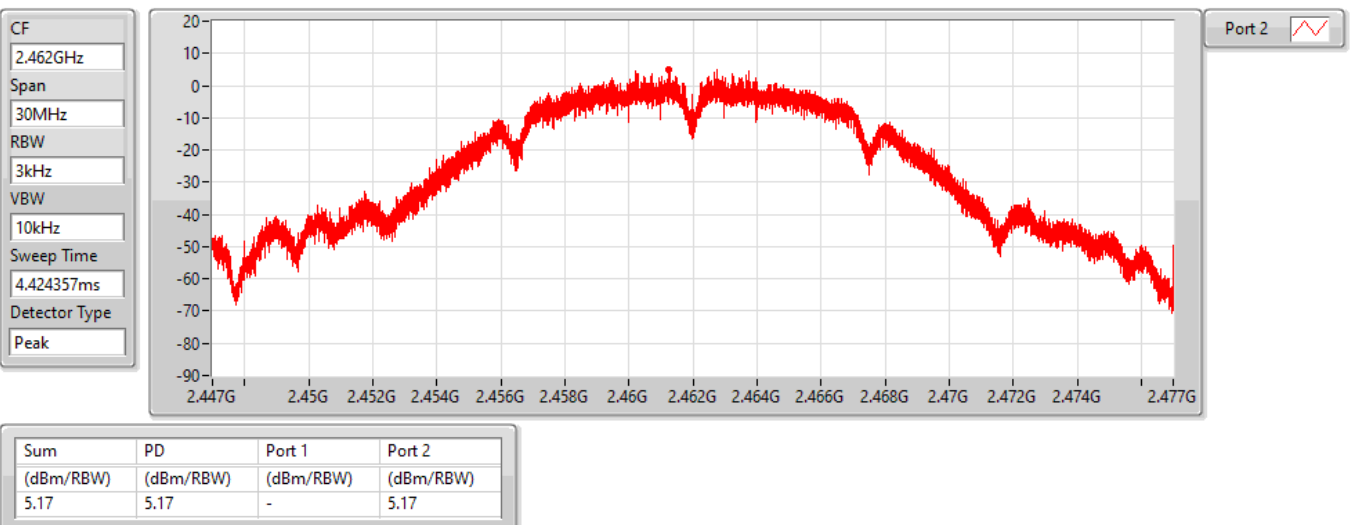


11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)

PSD

2462MHz

14/03/2022

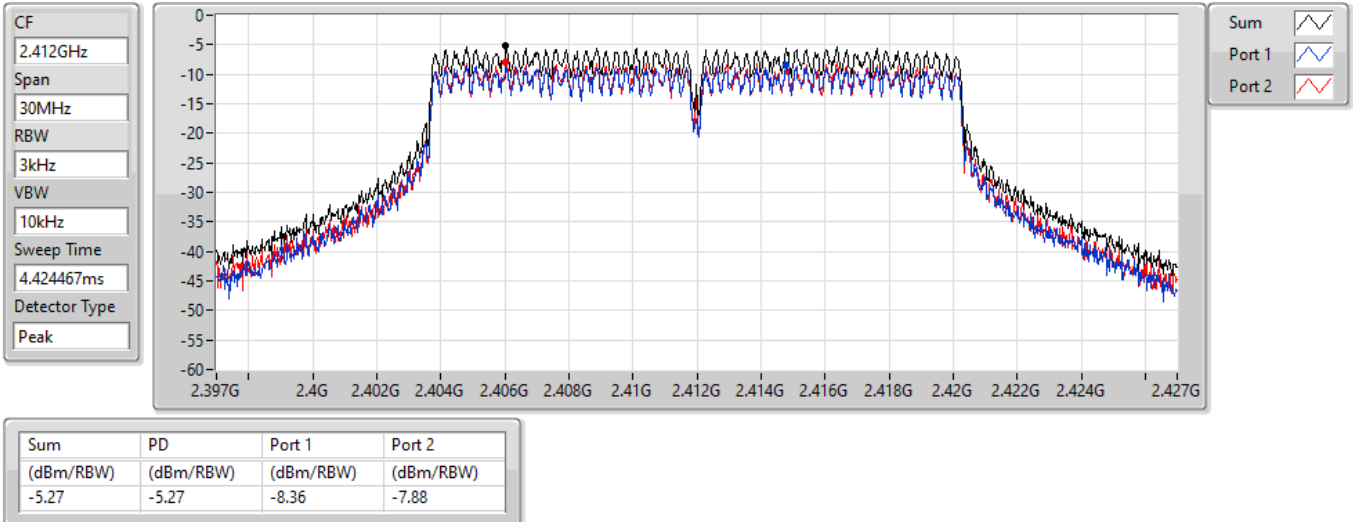


802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

14/03/2022

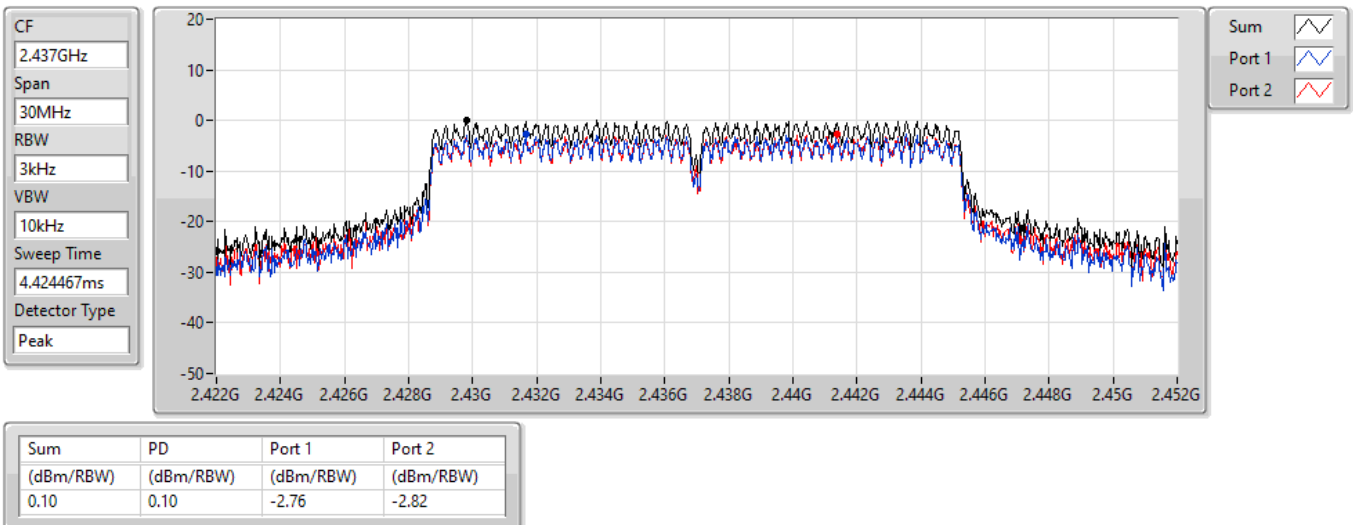


802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

14/03/2022

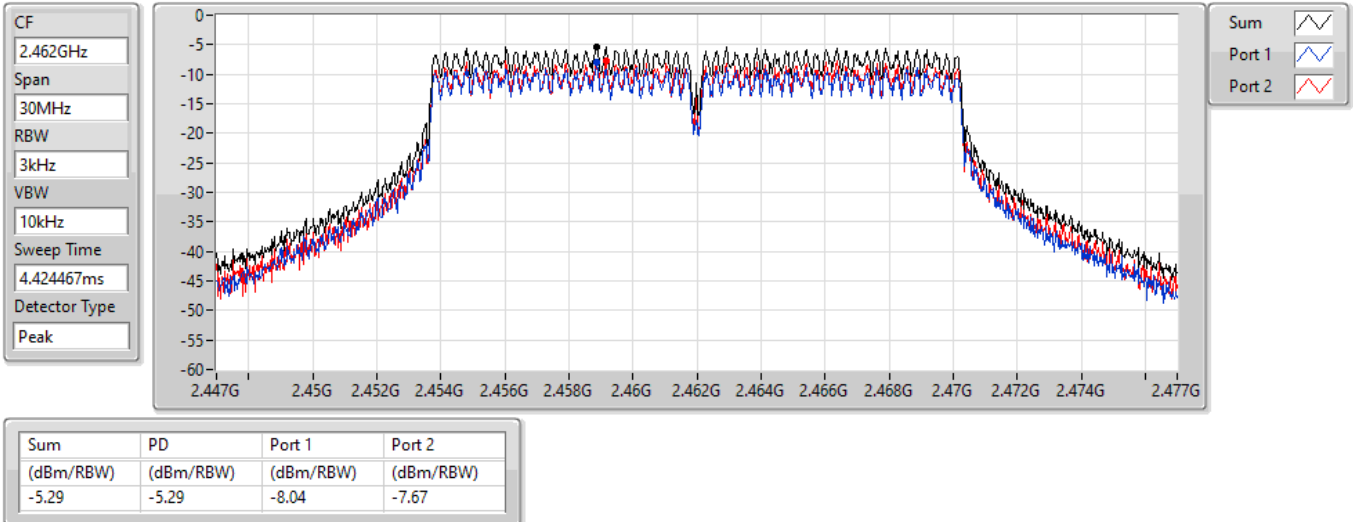


802.11g_Nss1,(6Mbps)_2TX

2462MHz

PSD

14/03/2022

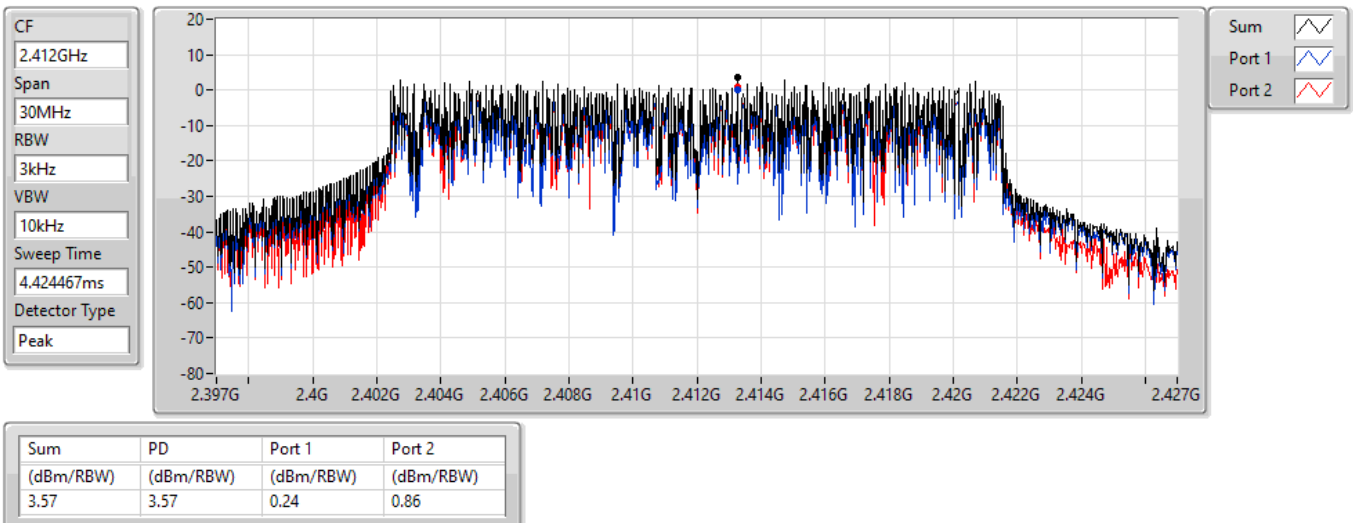


802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz

PSD

14/03/2022

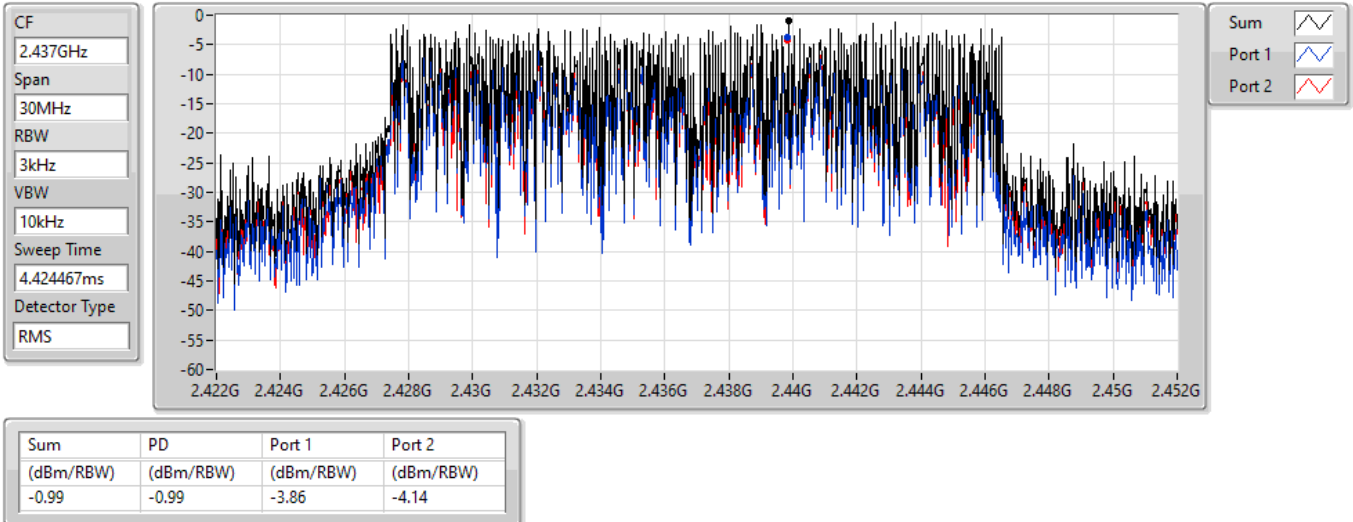


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

14/03/2022

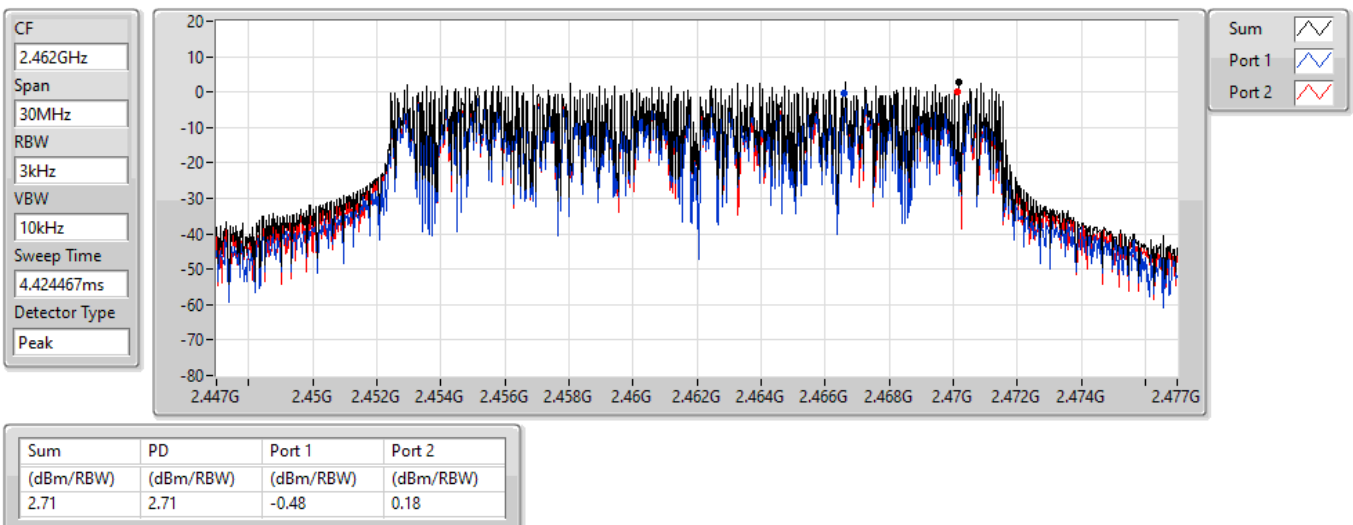


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

14/03/2022

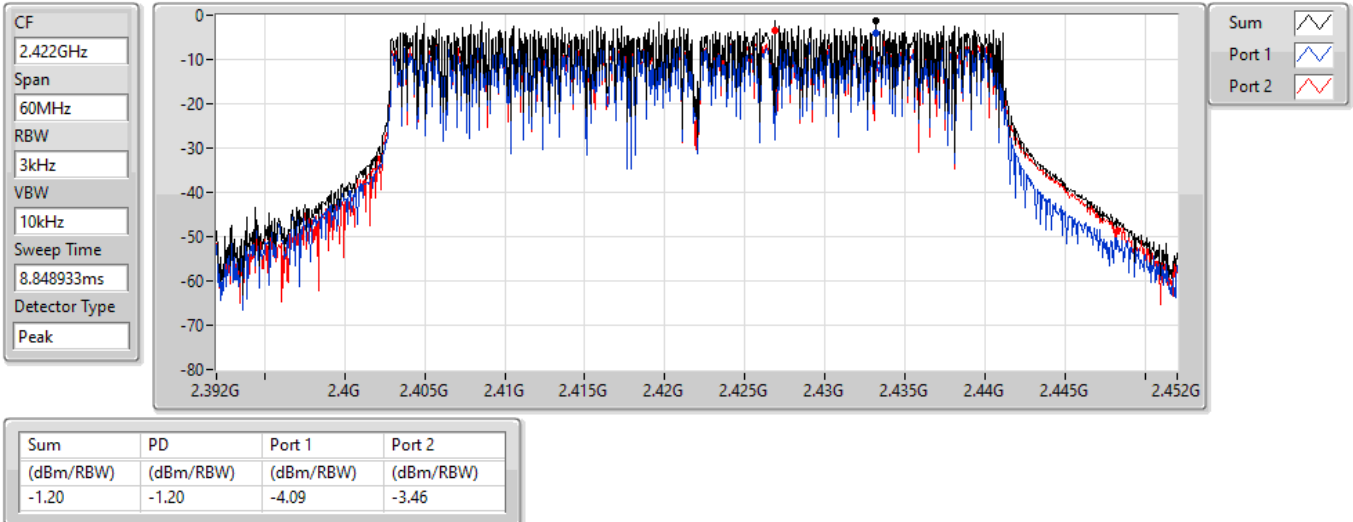


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

14/03/2022

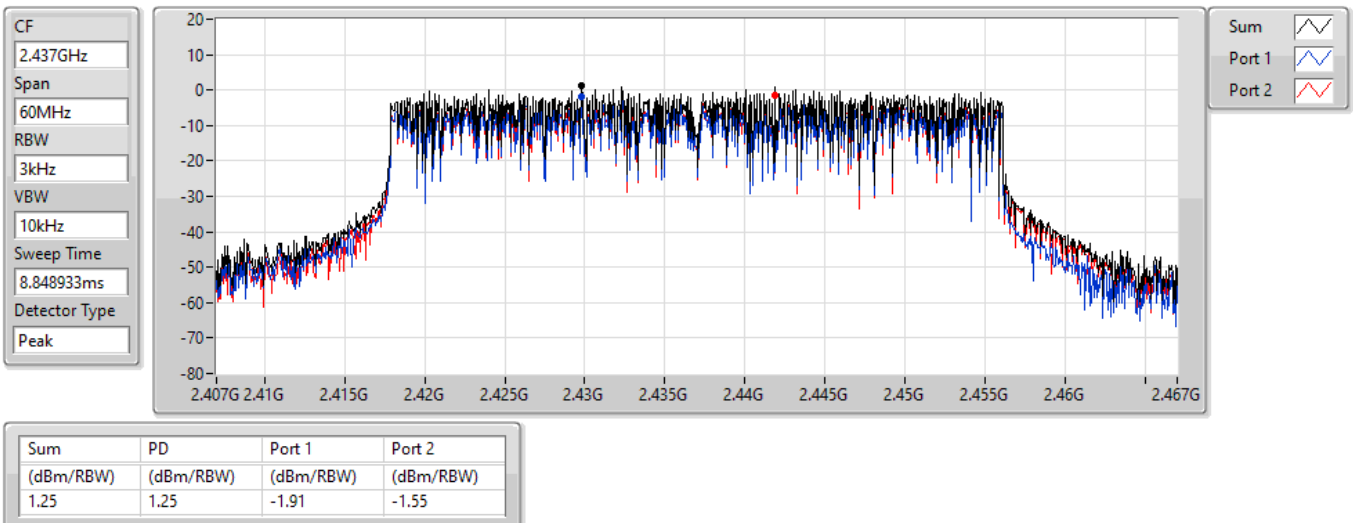


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2437MHz

14/03/2022

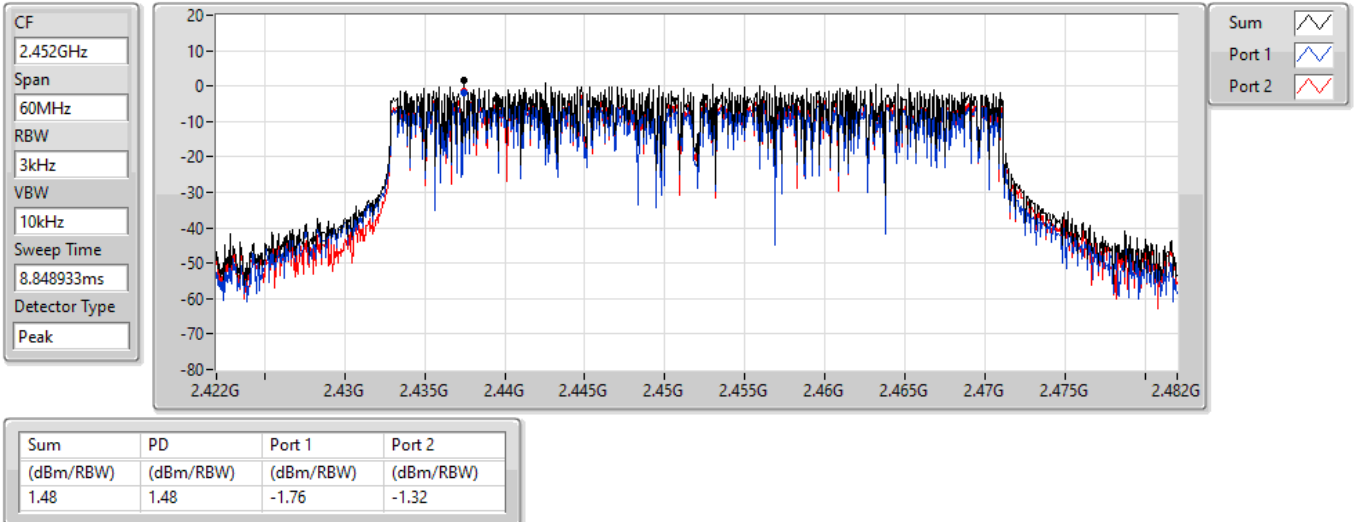


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2452MHz

14/03/2022



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)	Pass	2.41098G	18.62	-11.38	2.30204G	-48.58	2.4G	-22.62	2.4G	-22.63	2.49696G	-40.66	7.23233G	-26.91	1
11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)	Pass	2.43599G	18.54	-11.46	2.30554G	-48.32	2.4G	-22.4	2.4G	-22.41	2.50298G	-41.7	7.23233G	-28.62	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43511G	13.02	-16.98	2.18671G	-50.42	2.39982G	-18.48	2.4G	-23.14	2.49674G	-46.53	7.24637G	-37.85	2
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.42785G	11.95	-18.05	2.30612G	-51.2	2.3999G	-21.47	2.4G	-21.68	2.49752G	-49.45	7.23233G	-39.39	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.45014G	2.61	-27.39	512.05M	-51.35	2.39996G	-31.49	2.4G	-31.38	2.56002G	-44.6	16.91445G	-44.06	1

Result

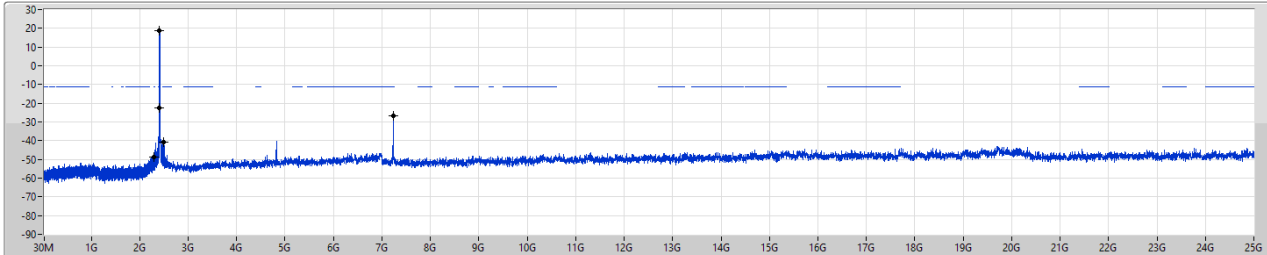
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41098G	18.62	-11.38	2.30204G	-48.58	2.4G	-22.62	2.4G	-22.63	2.49696G	-40.66	7.23233G	-26.91	1
2437MHz	Pass	2.41098G	18.62	-11.38	2.30699G	-49.13	2.3965G	-44.68	2.4835G	-48.36	2.51698G	-42.84	23.1485G	-43.69	1
2462MHz	Pass	2.41098G	18.62	-11.38	2.30117G	-47.64	2.392G	-46.03	2.4835G	-44.14	2.48696G	-41.99	15.0401G	-42.89	1
11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43599G	18.54	-11.46	2.30554G	-48.32	2.4G	-22.4	2.4G	-22.41	2.50298G	-41.7	7.23233G	-28.62	2
2437MHz	Pass	2.43599G	18.54	-11.46	2.30612G	-48.86	2.396G	-43.55	2.4835G	-45.59	2.489G	-44.38	2.53755G	-42.28	2
2462MHz	Pass	2.43599G	18.54	-11.46	2.30117G	-50.48	2.39996G	-45.04	2.4835G	-42.7	2.48846G	-41.86	2.55721G	-42.82	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43511G	13.02	-16.98	2.30379G	-51.4	2.39974G	-20.36	2.4G	-22.38	2.50032G	-48.89	7.23514G	-37.46	1
2412MHz	Pass	2.43511G	13.02	-16.98	2.18671G	-50.42	2.39982G	-18.48	2.4G	-23.14	2.49674G	-46.53	7.24637G	-37.85	2
2437MHz	Pass	2.43511G	13.02	-16.98	2.30466G	-47.78	2.39954G	-37.54	2.4G	-39.47	2.48504G	-43.05	15.31544G	-43.58	1
2437MHz	Pass	2.43511G	13.02	-16.98	2.30059G	-49.47	2.39824G	-34.77	2.4G	-38.07	2.4861G	-41.59	15.23958G	-44.42	2
2462MHz	Pass	2.43511G	13.02	-16.98	2.30961G	-51.25	2.39918G	-48.72	2.4835G	-45.03	2.48386G	-42.47	23.42103G	-44.22	1
2462MHz	Pass	2.43511G	13.02	-16.98	2.30117G	-50.59	2.39072G	-48.52	2.4835G	-41.82	2.48366G	-39.79	16.94779G	-44.56	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.42785G	11.95	-18.05	2.30612G	-51.2	2.3999G	-21.47	2.4G	-21.68	2.49752G	-49.45	7.23233G	-39.39	1
2412MHz	Pass	2.42785G	11.95	-18.05	2.30321G	-50.64	2.39984G	-23.43	2.4G	-24.42	2.51204G	-49.39	7.22952G	-38.47	2
2437MHz	Pass	2.42785G	11.95	-18.05	2.30204G	-48.29	2.39864G	-39.05	2.4G	-40.72	2.48392G	-43.67	24.2667G	-43.11	1
2437MHz	Pass	2.42785G	11.95	-18.05	2.3G	-49.1	2.39868G	-35.15	2.4G	-38.06	2.4843G	-39.26	24.78366G	-43.41	2
2462MHz	Pass	2.42785G	11.95	-18.05	631.43M	-51.97	2.39472G	-49.28	2.4835G	-48.37	2.48482G	-45.14	14.93053G	-44.32	1
2462MHz	Pass	2.42785G	11.95	-18.05	2.30233G	-51.6	2.39702G	-47.92	2.4835G	-46.32	2.48402G	-44.31	23.4126G	-43.47	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.45014G	2.61	-27.39	512.05M	-51.35	2.39996G	-31.49	2.4G	-31.38	2.56002G	-44.6	16.91445G	-44.06	1
2422MHz	Pass	2.45014G	2.61	-27.39	2.30483G	-51.4	2.39956G	-33.16	2.4G	-33.49	2.48694G	-49.21	7.2359G	-43.88	2
2437MHz	Pass	2.45014G	2.61	-27.39	2.09358G	-50.39	2.39896G	-41.64	2.4G	-43.84	2.56002G	-44.02	24.90464G	-44.38	1
2437MHz	Pass	2.45014G	2.61	-27.39	2.3097G	-51.77	2.39896G	-40.6	2.4G	-42.95	2.48786G	-43.45	15.29341G	-43.54	2
2452MHz	Pass	2.45014G	2.61	-27.39	829.5M	-50.48	2.4G	-47.73	2.4835G	-43.55	2.48582G	-43.19	14.89516G	-44.73	1
2452MHz	Pass	2.45014G	2.61	-27.39	2.30197G	-50.59	2.39936G	-45.16	2.4835G	-38.66	2.48458G	-37.96	24.53164G	-43.77	2

11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)

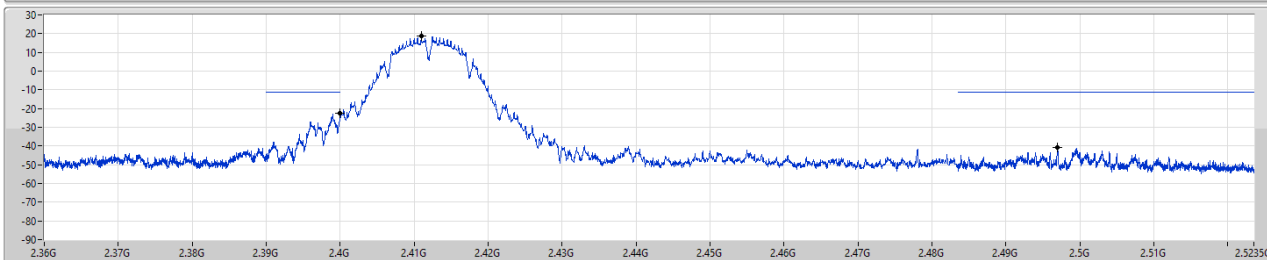
CSENdB

2412MHz

14/03/2022



Port 1



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

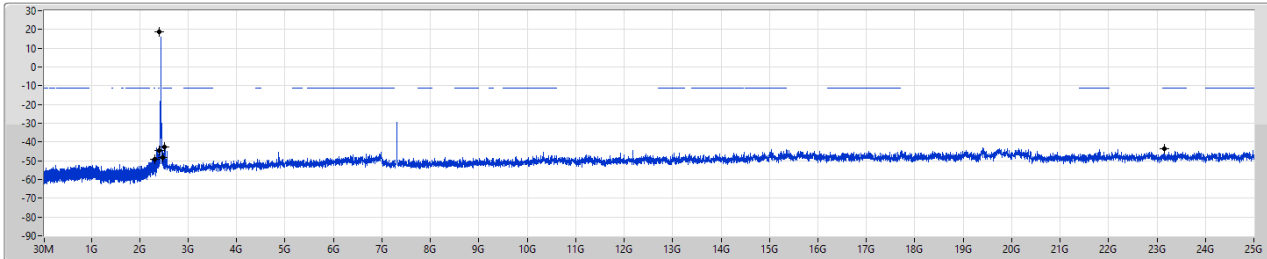
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41098G	18.62	-11.38	2.30204G	-48.58	2.4G	-22.62	2.4G	-22.63	2.49696G	-40.66	7.23233G	-26.91	1

11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)

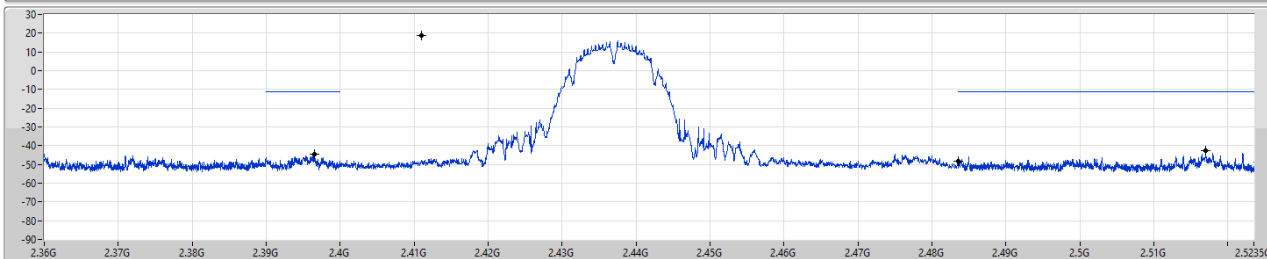
CSENdB

2437MHz

14/03/2022



Port 1



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
2.41098G	18.62	-11.38	2.30699G	-49.13	2.3965G	-44.68	2.4835G	-48.36	2.51698G	-42.84	23.1485G	-43.69	1

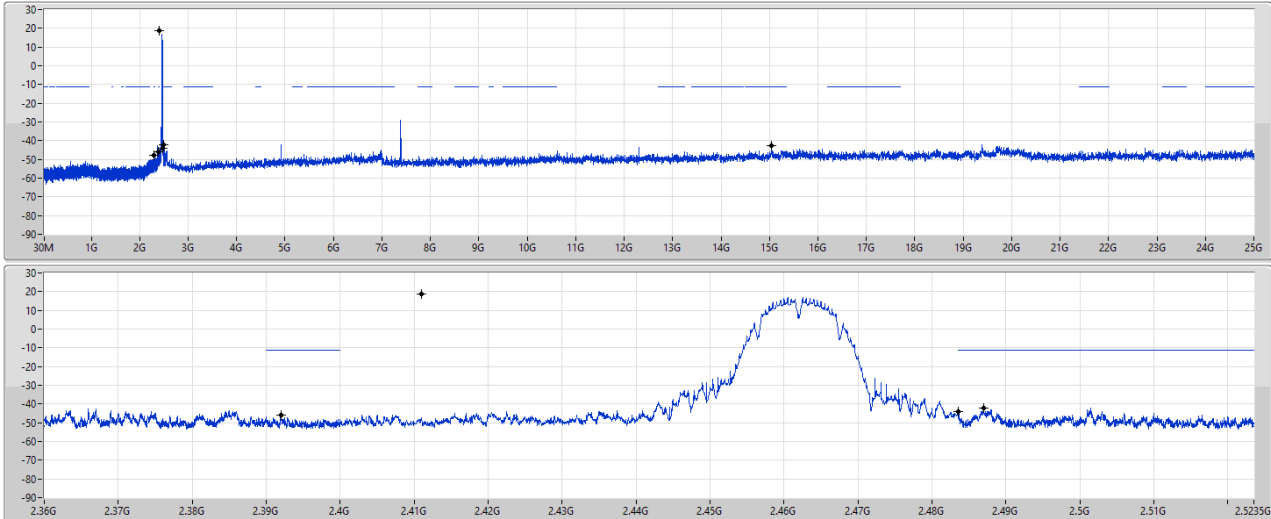
11b,Ant 1_Nss1,(1Mbps)_1TX(Port1)

2462MHz

CSENdB

14/03/2022

Port 1



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
2.41098G	18.62	-11.38	2.30117G	-47.64	2.392G	-46.03	2.4835G	-44.14	2.48696G	-41.99	15.0401G	-42.89	1

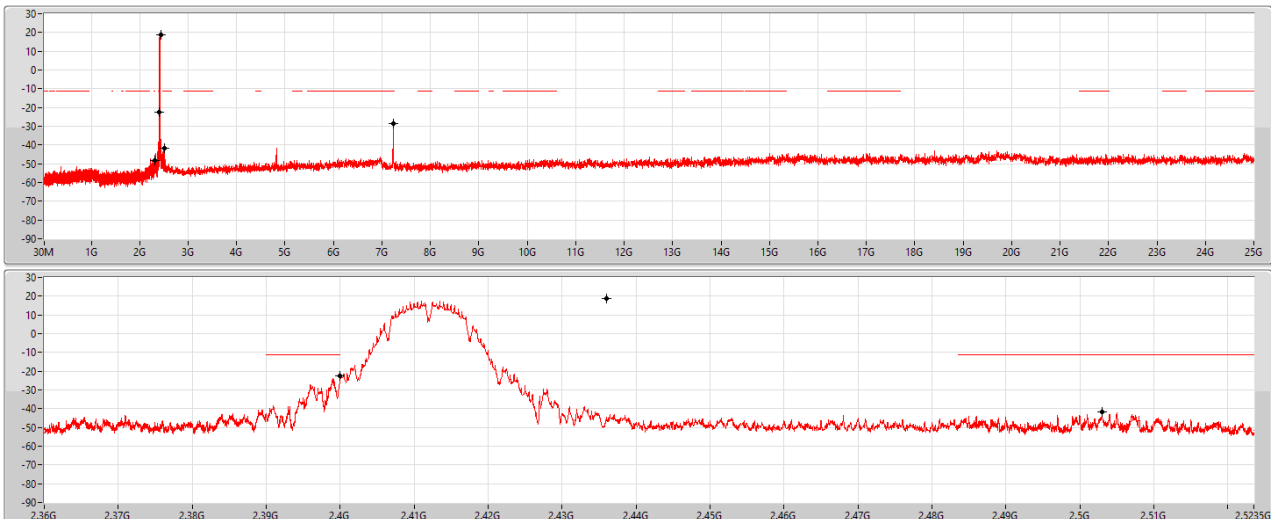
11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)

2412MHz

CSENdB

14/03/2022

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	18.54	-11.46	2.3054G	-48.32	2.4G	-22.40	2.4G	-22.41	2.50298G	-41.70	7.23233G	-28.62	2

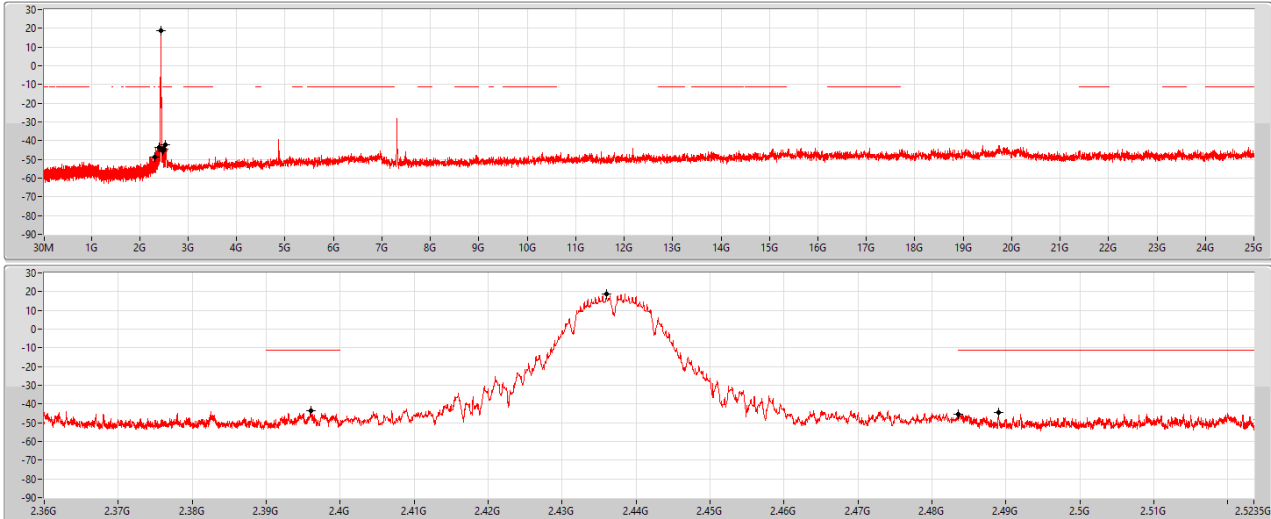
11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)

2437MHz

CSENdB

14/03/2022

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	18.54	-11.46	2.30612G	-48.86	2.396G	-43.55	2.4835G	-45.59	2.489G	-44.38	2.53755G	-42.28	2

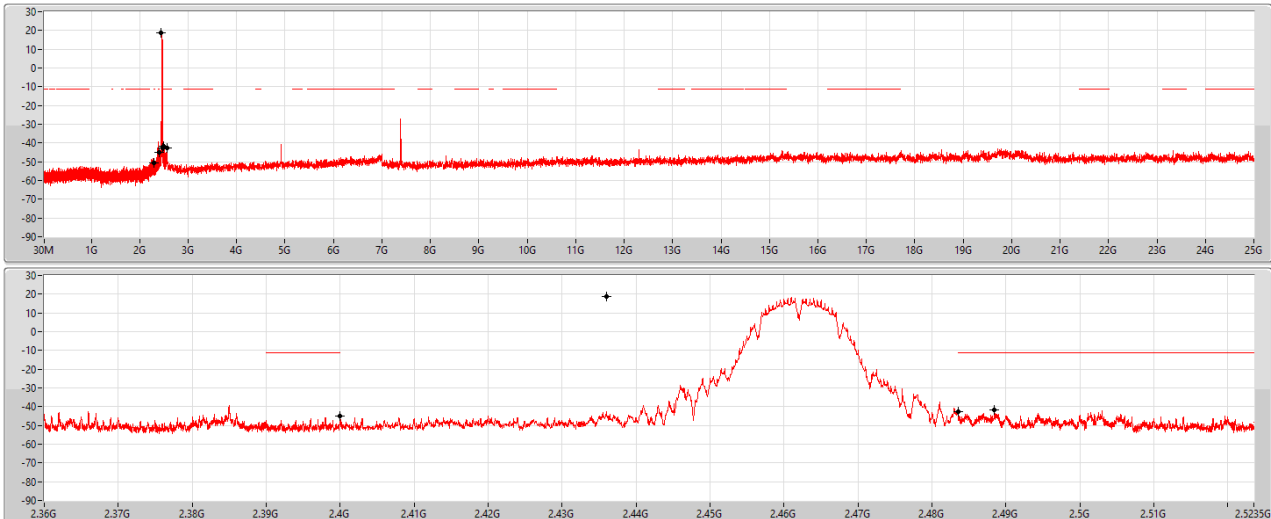
11b,Ant 2_Nss1,(1Mbps)_1TX(Port2)

2462MHz

CSENdB

14/03/2022

Port 2



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

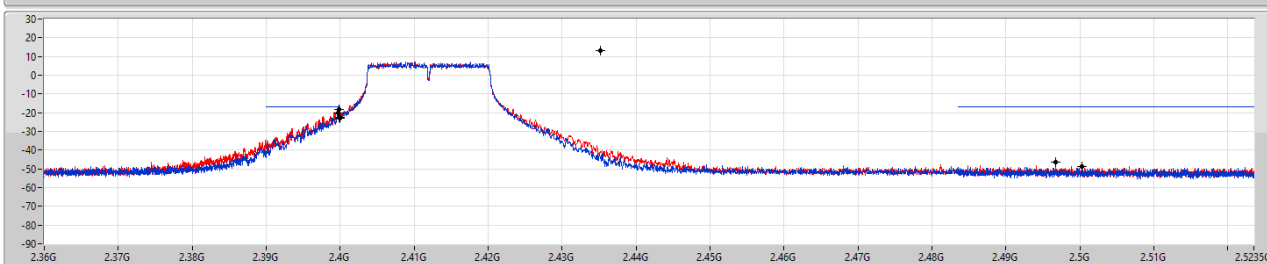
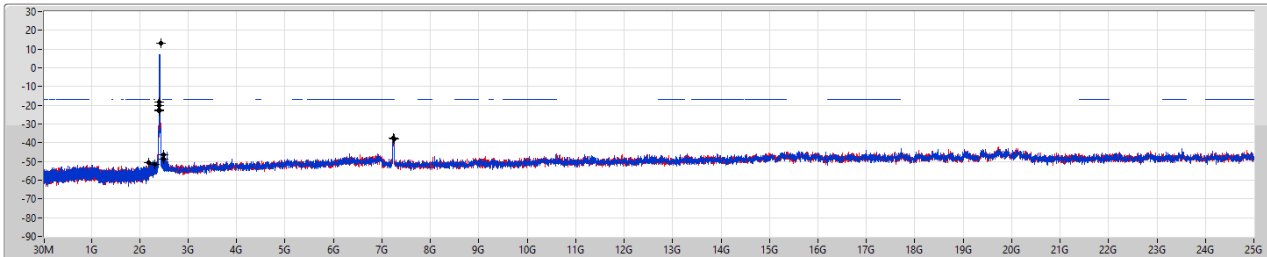
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43599G	18.54	-11.46	2.30117G	-50.48	2.39996G	-45.04	2.4835G	-42.70	2.48846G	-41.86	2.55721G	-42.82	2

802.11g_Nss1,(6Mbps)_2TX

2412MHz

CSENdB

14/03/2022



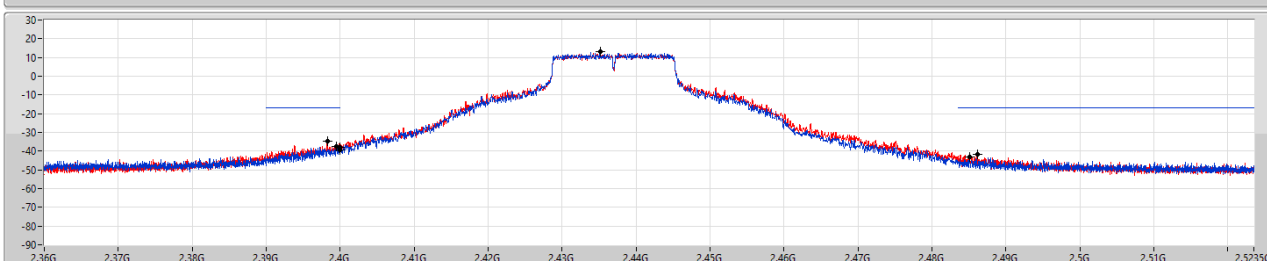
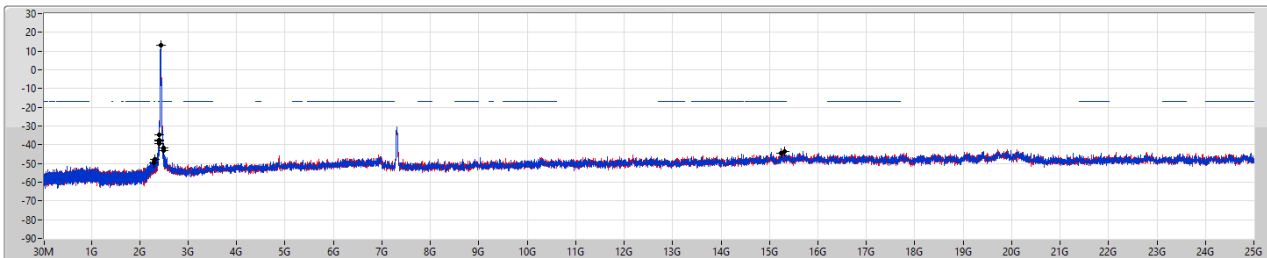
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2.43511G	13.02	-16.98	2.30379G	-51.40	2.39974G	-20.36	2.4G	-22.38	2.50032G	-48.89	7.23514G	-37.46	1
2.43511G	13.02	-16.98	2.18671G	-50.42	2.39982G	-18.48	2.4G	-23.14	2.49674G	-46.53	7.24637G	-37.85	2

802.11g_Nss1,(6Mbps)_2TX

2437MHz

CSENdB

14/03/2022



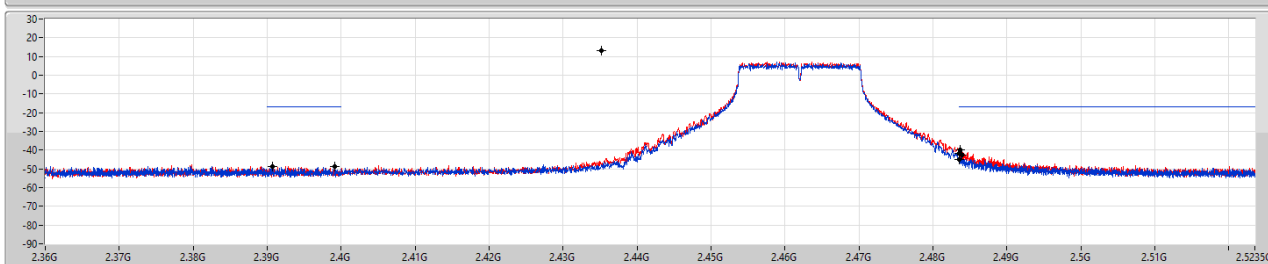
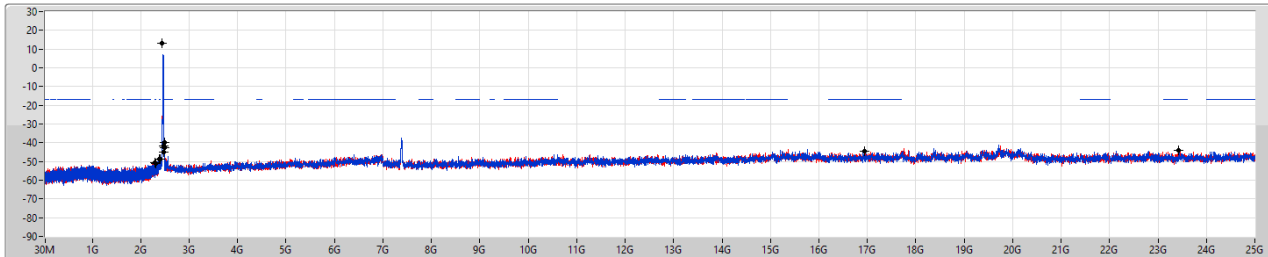
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43511G	13.02	-16.98	2.30466G	-47.78	2.39954G	-37.54	2.4G	-39.47	2.48504G	-43.05	15.31544G	-43.58	1
2.43511G	13.02	-16.98	2.30059G	-49.47	2.39824G	-34.77	2.4G	-38.07	2.4861G	-41.59	15.23958G	-44.42	2

802.11g_Nss1,(6Mbps)_2TX

2462MHz

CSEndB

14/03/2022



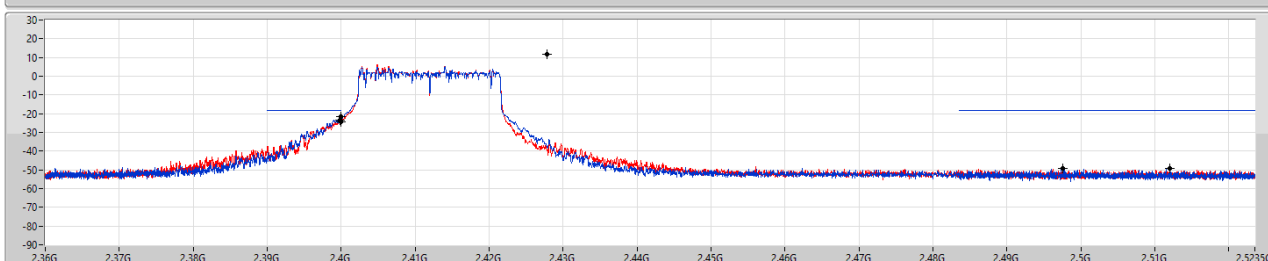
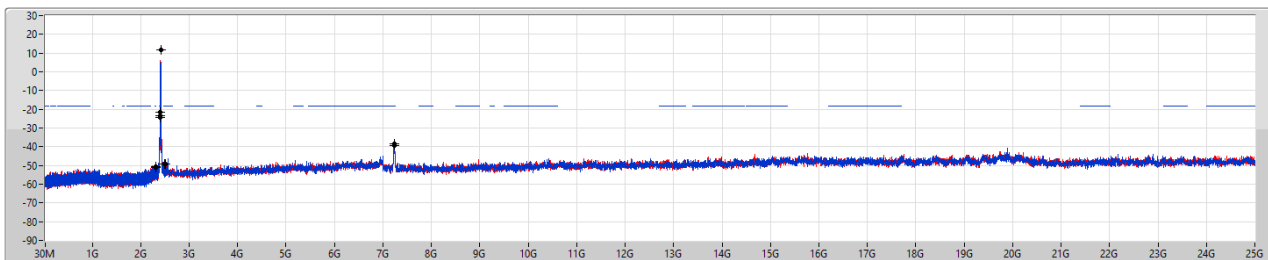
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43511G	13.02	-16.98	2.30961G	-51.25	2.39918G	-48.72	2.4835G	-45.03	2.48386G	-42.47	2.42103G	-44.22	1
2.43511G	13.02	-16.98	2.30117G	-50.59	2.39072G	-48.52	2.4835G	-41.82	2.48366G	-39.79	16.94779G	-44.56	2

802.11ax_HEW20_Nss1,(MCS0)_2TX

2412MHz

CSEndB

14/03/2022



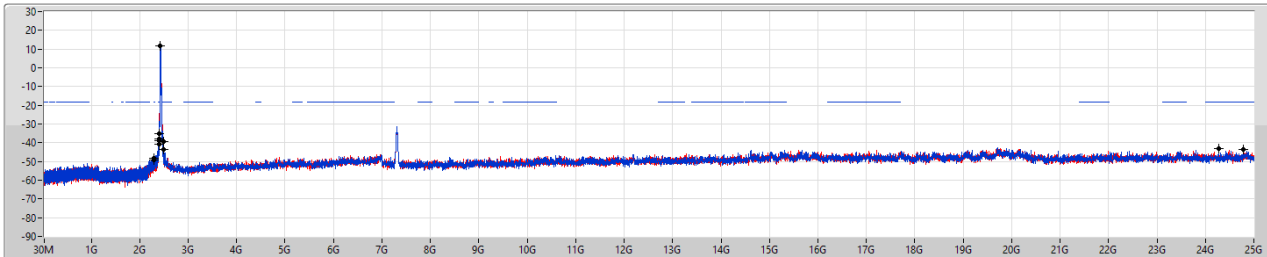
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42785G	11.95	-18.05	2.30612G	-51.20	2.3999G	-21.47	2.4G	-21.68	2.49732G	-49.45	7.23233G	-39.39	1
2.42785G	11.95	-18.05	2.30321G	-50.64	2.39984G	-23.43	2.4G	-24.42	2.51204G	-49.39	7.22952G	-38.47	2

802.11ax HEW20_Nss1,(MCS0)_2TX

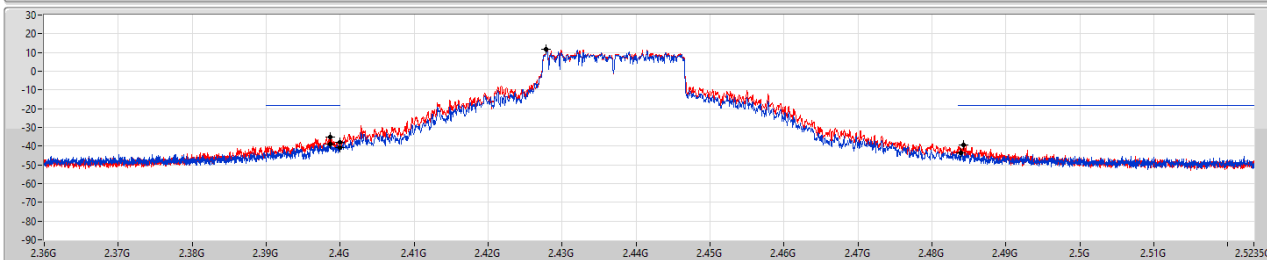
CSENdB

2437MHz

14/03/2022



Port 1
Port 2



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

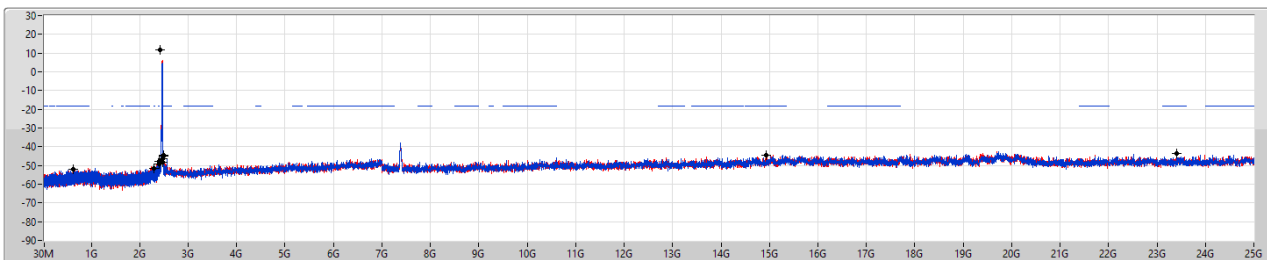
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2.42785G	11.95	-18.05	2.30204G	-48.29	2.39864G	-39.05	2.4G	-40.72	2.48392G	-43.67	2.42667G	-43.11	1
2.42785G	11.95	-18.05	2.3G	-49.10	2.39866G	-35.15	2.4G	-38.06	2.4843G	-39.26	2.478366G	-43.41	2

802.11ax HEW20_Nss1,(MCS0)_2TX

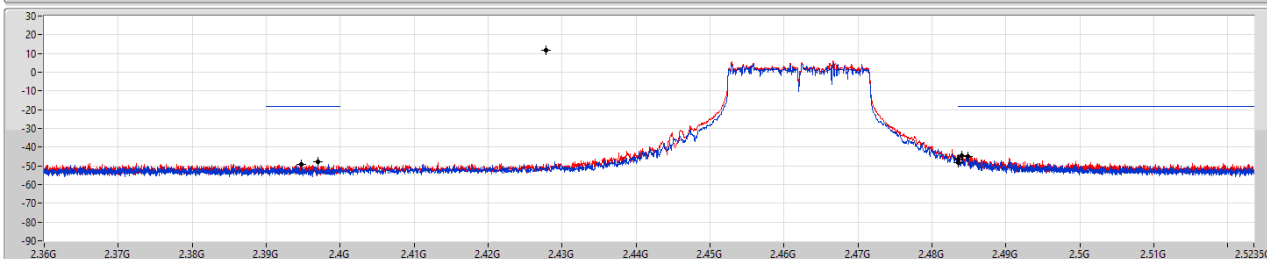
CSENdB

2462MHz

14/03/2022



Port 1
Port 2



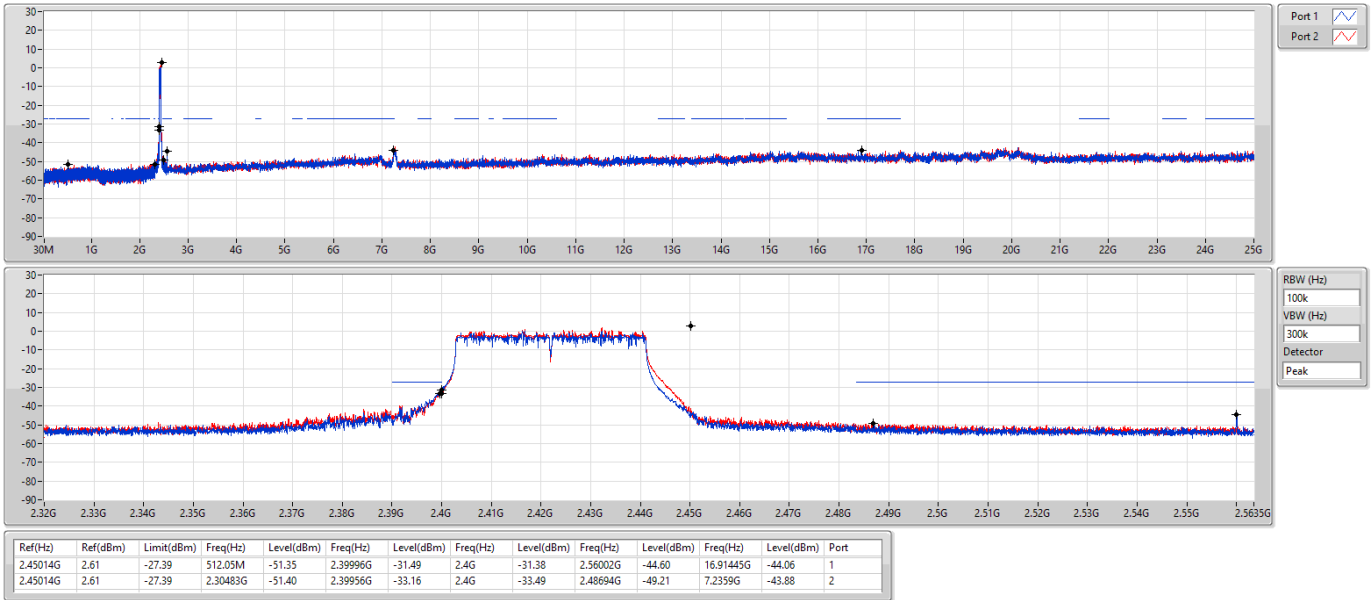
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.42785G	11.95	-18.05	631.43M	-51.97	2.39472G	-49.28	2.4835G	-48.37	2.48482G	-45.14	14.93053G	-44.32	1
2.42785G	11.95	-18.05	2.30233G	-51.60	2.39702G	-47.92	2.4835G	-46.32	2.48402G	-44.31	23.4126G	-43.47	2

802.11ax HEW40_Nss1,(MCS0)_2TX

CSENdB

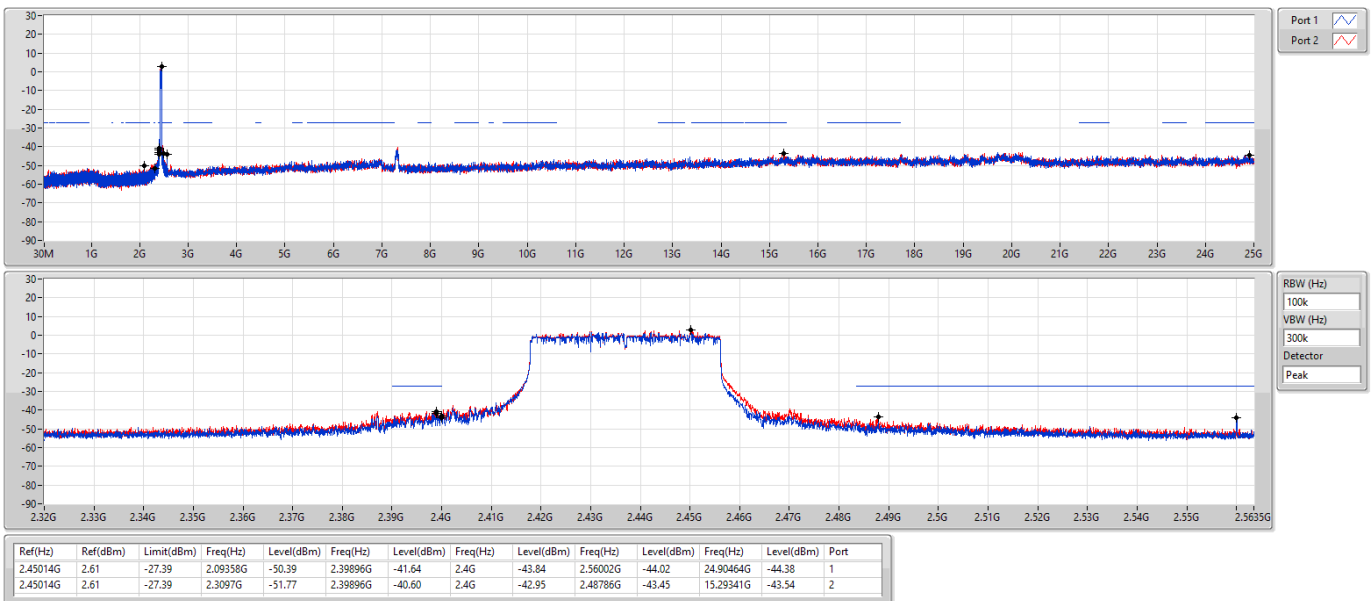
2422MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

CSENdB

2437MHz

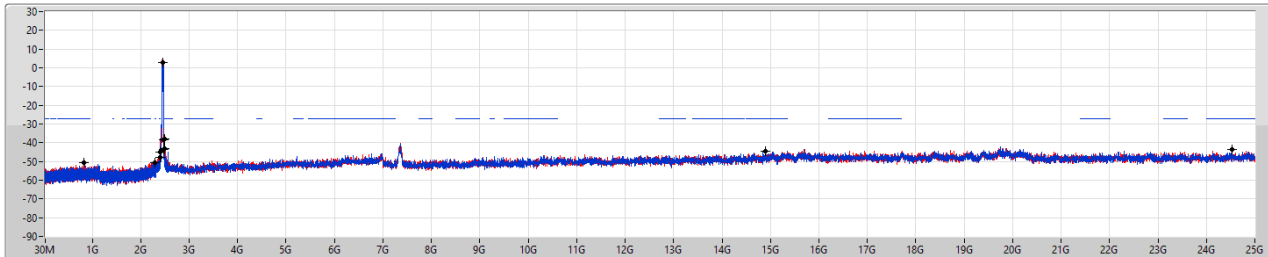


802.11ax HEW40_Nss1,(MCS0)_2TX

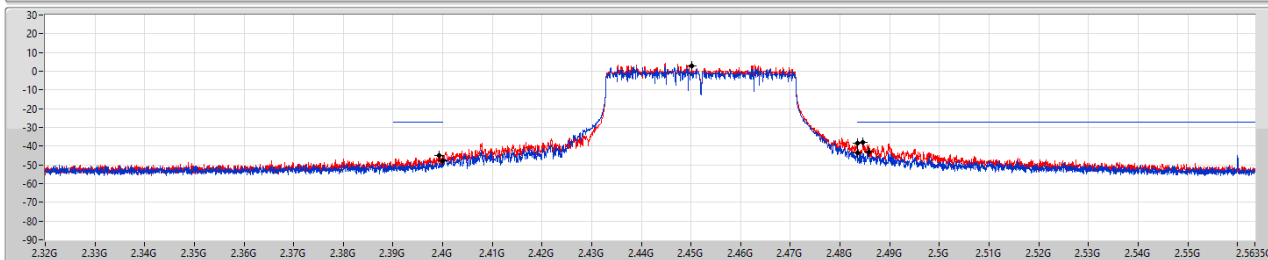
CSEndB

2452MHz

14/03/2022



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
2.45014G	2.61	-27.39	829.5M	-50.48	2.4G	-47.73	2.4835G	-43.55	2.48582G	-43.19	14.89516G	-44.73	1
2.45014G	2.61	-27.39	2.30197G	-50.59	2.39936G	-45.16	2.4835G	-38.66	2.48458G	-37.96	24.53164G	-43.77	2



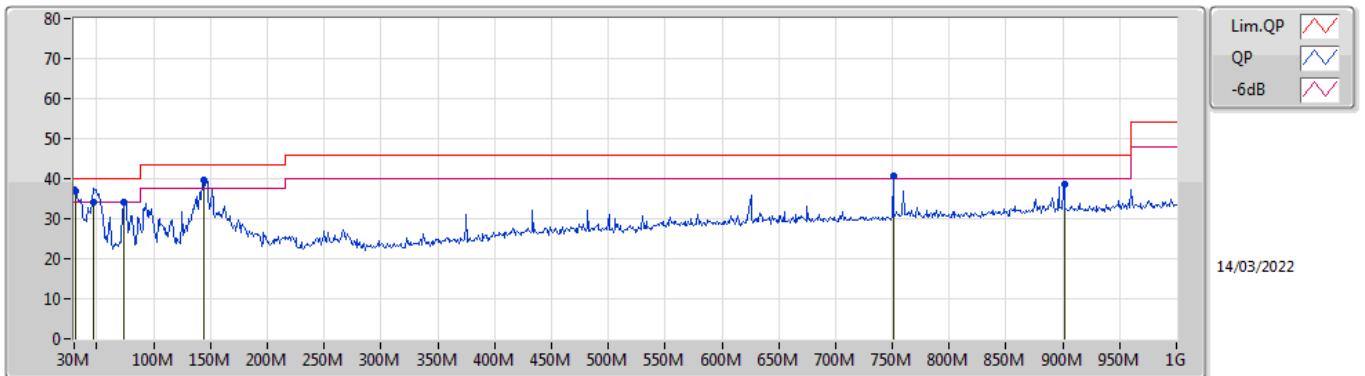
Radiated Emissions below 1GHz

Appendix F.1

Summary

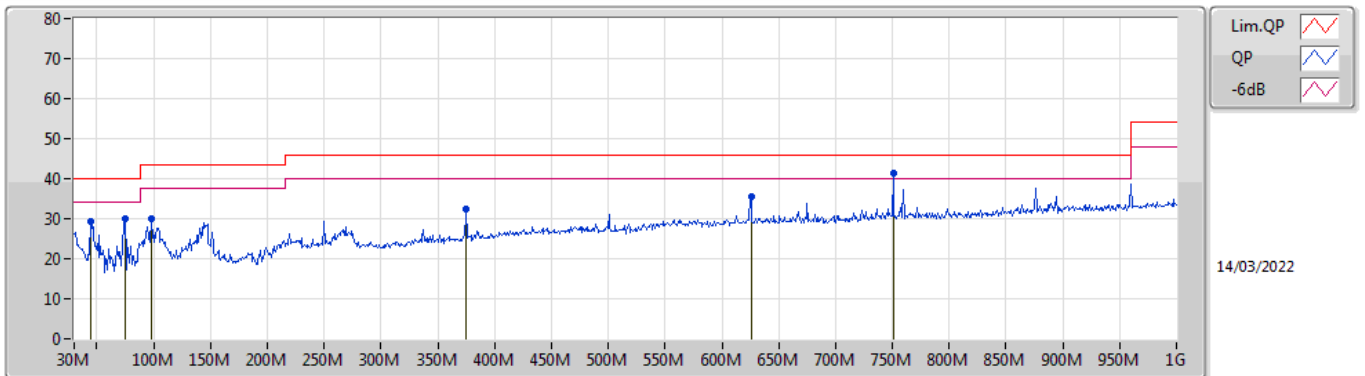
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	30.97M	36.99	40.00	-3.01	Vertical

Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
QP	30.97M	36.99	40.00	-3.01	-7.01	3	Vertical	11	1.25	"Worst"	44.00	23.68	0.82	31.51
QP	47.46M	34.31	40.00	-5.69	-15.79	3	Vertical	18	1.25	-	50.10	14.90	1.05	31.74
PK	73.65M	34.28	40.00	-5.72	-18.40	3	Vertical	11	1.25	-	52.68	12.20	1.30	31.90
PK	144.46M	39.54	43.50	-3.96	-13.56	3	Vertical	191	1.50	-	53.10	16.56	1.84	31.96
PK	750.71M	40.78	46.00	-5.22	-2.82	3	Vertical	74	1.00	-	43.60	25.19	4.70	32.71
PK	901.06M	38.65	46.00	-7.35	-1.14	3	Vertical	6	2.00	-	39.79	26.21	5.31	32.66

Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	44.55M	29.34	40.00	-10.66	-14.34	3	Horizontal	359	1.50	-	43.68	16.38	0.99	31.71
PK	74.62M	29.93	40.00	-10.07	-18.38	3	Horizontal	152	1.25	-	48.31	12.22	1.30	31.90
PK	97.9M	30.10	43.50	-13.40	-14.20	3	Horizontal	158	2.00	-	44.30	16.22	1.46	31.88
PK	375.32M	32.47	46.00	-13.53	-8.28	3	Horizontal	232	1.00	-	40.75	20.77	3.10	32.15
PK	625.58M	35.48	46.00	-10.52	-3.91	3	Horizontal	289	1.00	-	39.39	24.51	4.10	32.52
PK	750.71M	41.47	46.00	-4.53	-2.82	3	Horizontal	45	1.25	"Worst"	44.29	25.19	4.70	32.71

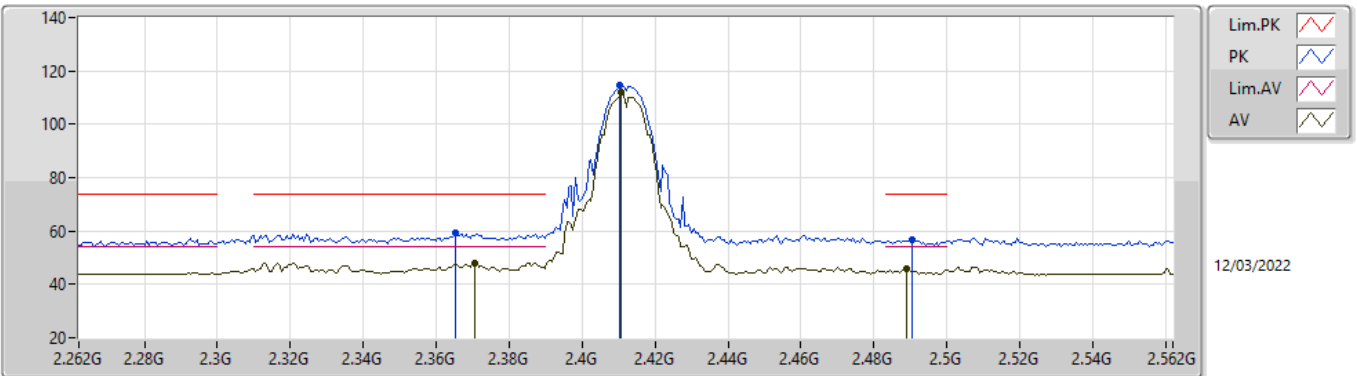


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.39G	52.98	54.00	-1.02	3	Vertical	278	2.61	-

11b,Ant1_Nss1,(1Mbps)_1TX(Port1)

2412MHz_TX

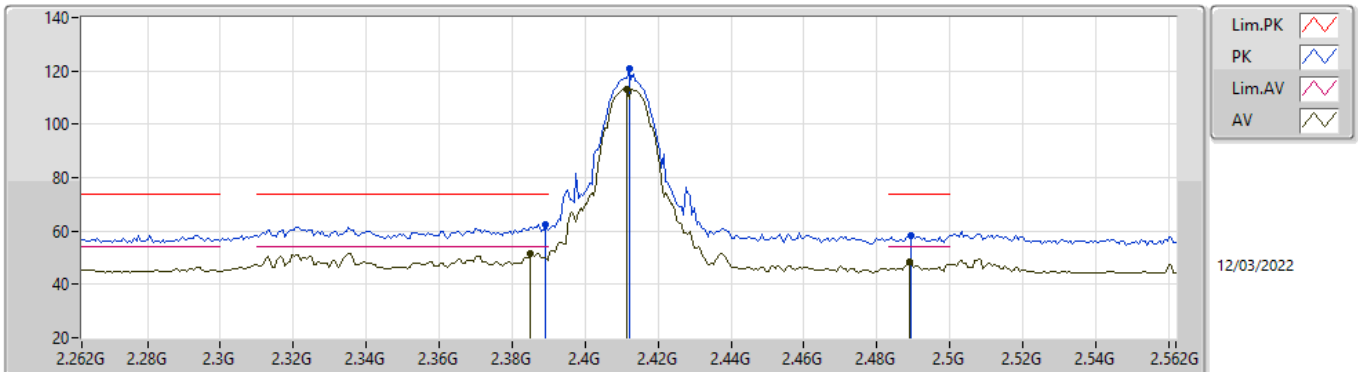


EUT_Z_1TX
Setting 28
04-D-K-5

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	2.3652G	59.06	74.00	-14.94	28.85	3	Vertical	179	2.95	-	27.43	2.78	-	
AV	2.3706G	48.07	54.00	-5.93	17.84	3	Vertical	179	2.95	-	27.44	2.79	-	
PK	2.4102G	114.84	Inf	-Inf	84.51	3	Vertical	179	2.95	-	27.52	2.81	-	
AV	2.4108G	111.89	Inf	-Inf	81.56	3	Vertical	179	2.95	-	27.52	2.81	-	
PK	2.4906G	56.67	74.00	-17.33	25.98	3	Vertical	179	2.95	-	27.84	2.85	-	
AV	2.4888G	46.09	54.00	-7.91	15.42	3	Vertical	179	2.95	-	27.83	2.84	-	

11b,Ant1_Nss1,(1Mbps)_1TX(Port1)

2412MHz_TX

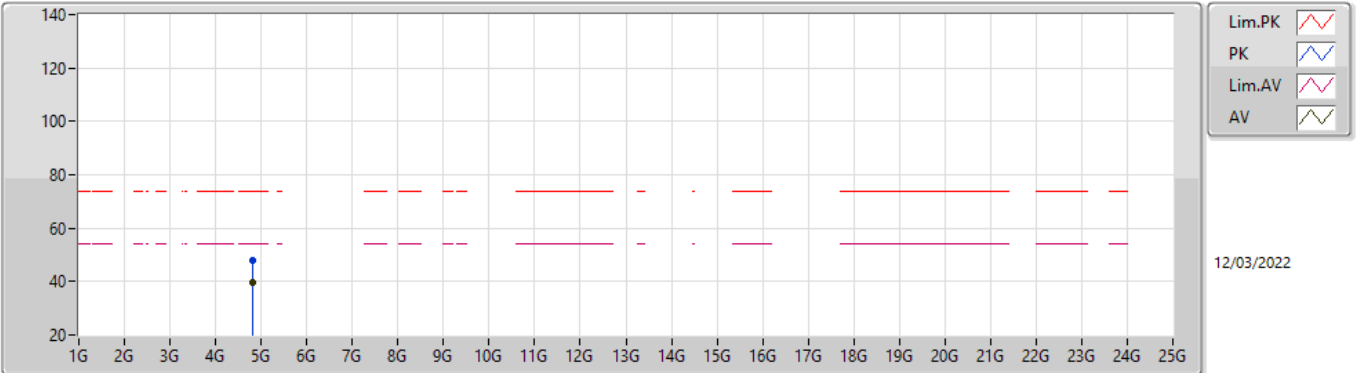


EUT_Z_1TX
Setting 28
04-D-K-5

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	2.3892G	62.60	74.00	-11.40	32.33	3	Horizontal	253	1.76	-	27.48	2.79	-
AV	2.385G	51.48	54.00	-2.52	21.22	3	Horizontal	253	1.76	-	27.47	2.79	-
PK	2.412G	120.94	Inf	-Inf	90.61	3	Horizontal	253	1.76	-	27.52	2.81	-
AV	2.4114G	113.25	Inf	-Inf	82.92	3	Horizontal	253	1.76	-	27.52	2.81	-
PK	2.4894G	58.49	74.00	-15.51	27.81	3	Horizontal	253	1.76	-	27.84	2.84	-
AV	2.4888G	48.32	54.00	-5.68	17.65	3	Horizontal	253	1.76	-	27.83	2.84	-

11b,Ant1_Nss1,(1Mbps)_1TX(Port1)

2412MHz_TX

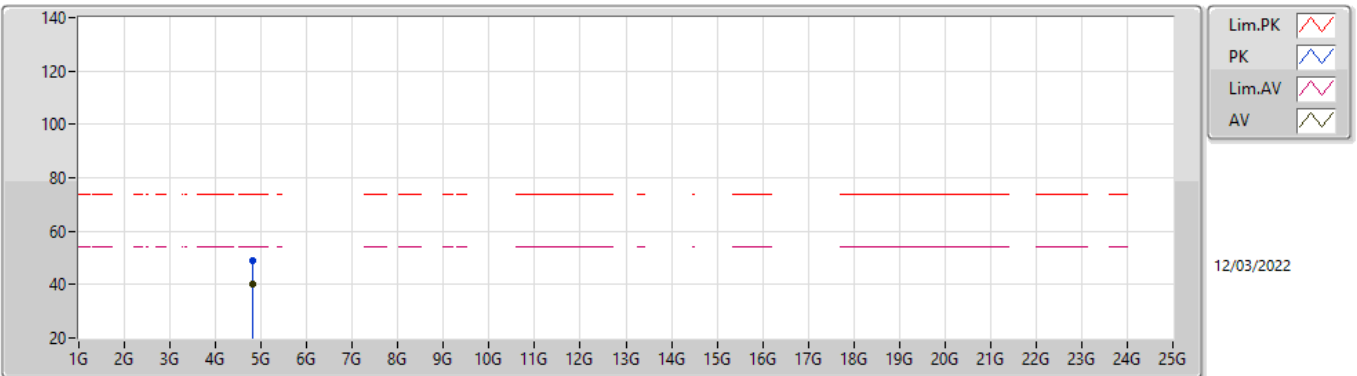


EUT_Z_1TX
Setting 28
04-D-K-5

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	4.82391G	47.82	74.00	-26.18	43.56	3	Vertical	99	1.55	-	32.70	4.81	33.25	
AV	4.82396G	39.78	54.00	-14.22	35.52	3	Vertical	99	1.55	-	32.70	4.81	33.25	

11b,Ant1_Nss1,(1Mbps)_1TX(Port1)

2412MHz_TX

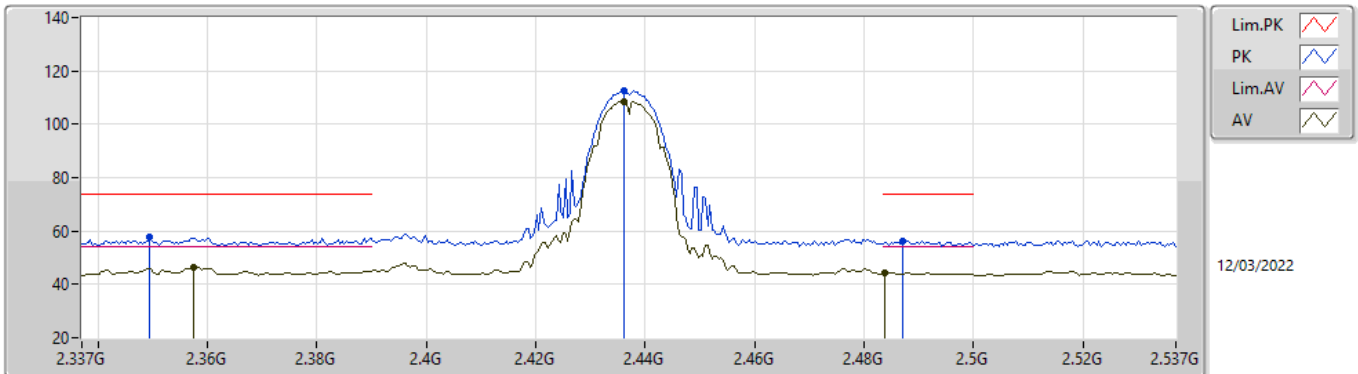


EUT_Z_1TX
Setting 28
04-D-K-5

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	49.18	74.00	-24.82	44.92	3	Horizontal	84	1.92	-	32.70	4.81	33.25	
AV	4.824G	40.25	54.00	-13.75	35.99	3	Horizontal	84	1.92	-	32.70	4.81	33.25	

11b,Ant1_Nss1,(1Mbps)_1TX(Port1)

2437MHz_TX

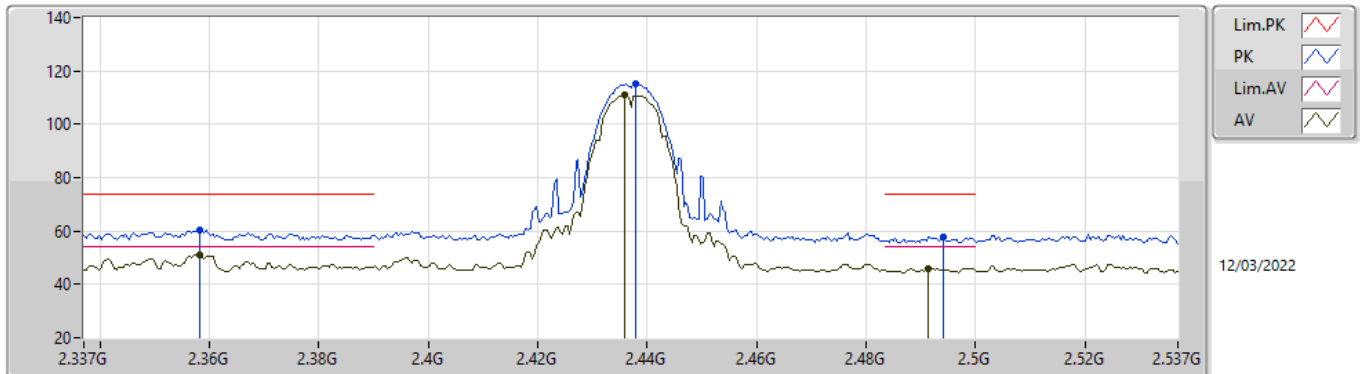


EUT_Z_1TX
Setting 24
04-D-K-5

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	2.3494G	57.62	74.00	-16.38	27.45	3	Vertical	6	1.91	-	27.40	2.77	-
AV	2.3574G	46.36	54.00	-7.64	16.17	3	Vertical	6	1.91	-	27.41	2.78	-
PK	2.4362G	112.51	Inf	-Inf	82.12	3	Vertical	6	1.91	-	27.57	2.82	-
AV	2.4362G	108.66	Inf	-Inf	78.27	3	Vertical	6	1.91	-	27.57	2.82	-
PK	2.487G	56.23	74.00	-17.77	25.57	3	Vertical	6	1.91	-	27.82	2.84	-
AV	2.4838G	44.42	54.00	-9.58	13.78	3	Vertical	6	1.91	-	27.80	2.84	-

11b,Ant1_Nss1,(1Mbps)_1TX(Port1)

2437MHz_TX

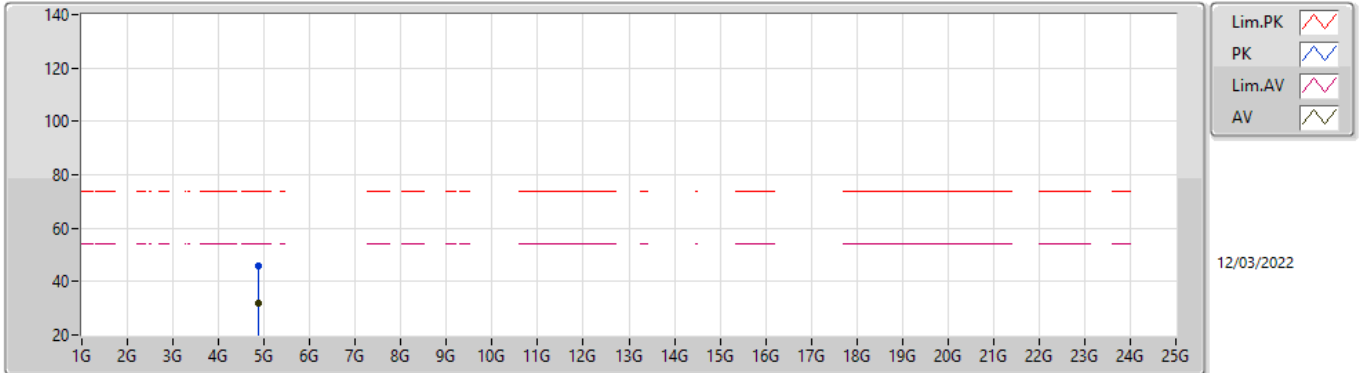


EUT_Z_1TX
Setting 24
04-D-K-5

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	2.3582G	60.21	74.00	-13.79	30.01	3	Horizontal	266	2.92	-	27.42	2.78	-
AV	2.3582G	50.89	54.00	-3.11	20.69	3	Horizontal	266	2.92	-	27.42	2.78	-
PK	2.4378G	115.27	Inf	-Inf	84.87	3	Horizontal	266	2.92	-	27.58	2.82	-
AV	2.4358G	110.81	Inf	-Inf	80.42	3	Horizontal	266	2.92	-	27.57	2.82	-
PK	2.4942G	57.82	74.00	-16.18	27.10	3	Horizontal	266	2.92	-	27.87	2.85	-
AV	2.4914G	45.94	54.00	-8.06	15.24	3	Horizontal	266	2.92	-	27.85	2.85	-

11b,Ant1_Nss1,(1Mbps)_1TX(Port1)

2437MHz_TX

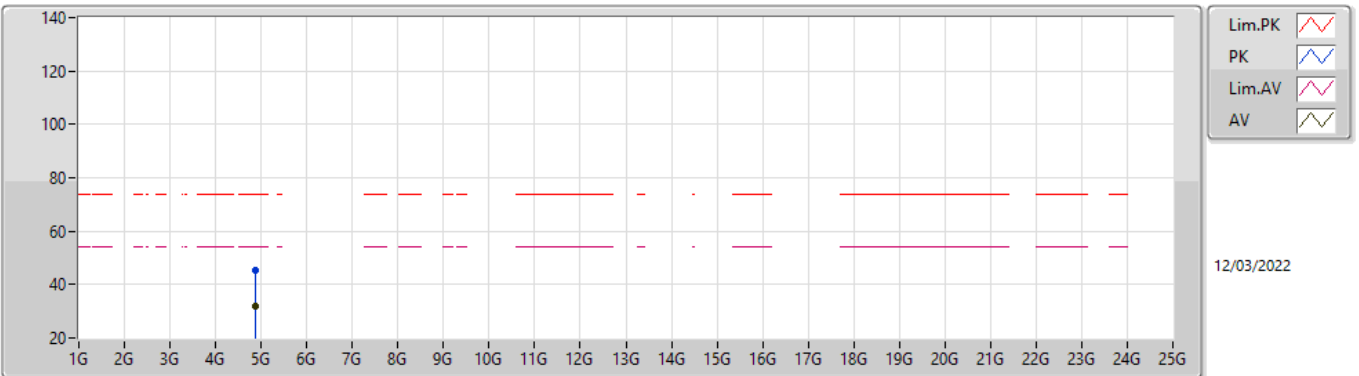


EUT_Z_1TX
Setting 24
04-D-K-5

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	4.8753G	45.72	74.00	-28.28	41.20	3	Vertical	305	1.60	-	32.90	4.84	33.22
AV	4.874G	31.85	54.00	-22.15	27.34	3	Vertical	305	1.60	-	32.90	4.84	33.23

11b,Ant1_Nss1,(1Mbps)_1TX(Port1)

2437MHz_TX

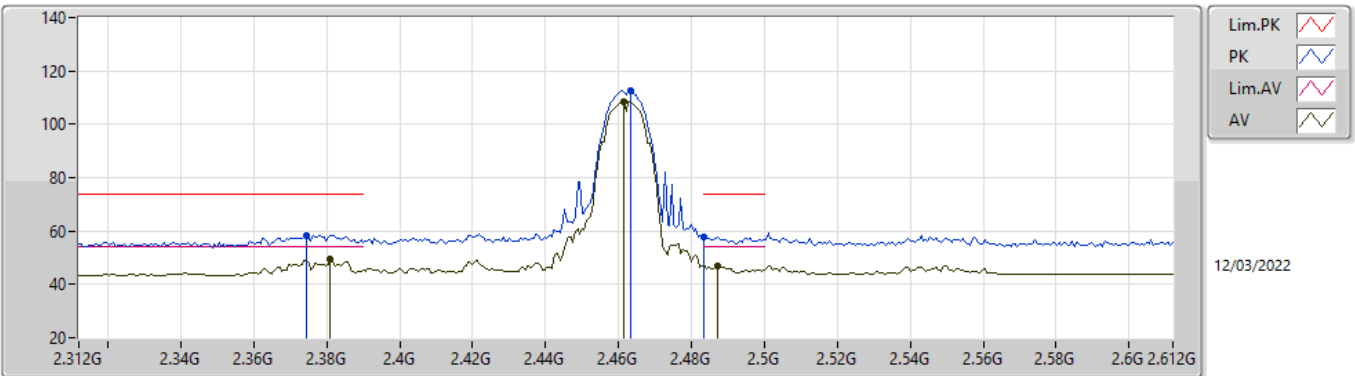


EUT_Z_1TX
Setting 24
04-D-K-5

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	4.87406G	45.36	74.00	-28.64	40.85	3	Horizontal	140	2.91	-	32.90	4.84	33.23	
AV	4.8738G	31.78	54.00	-22.22	27.27	3	Horizontal	140	2.91	-	32.90	4.84	33.23	

11b,Ant1_Nss1,(1Mbps)_1TX(Port1)

2462MHz_TX

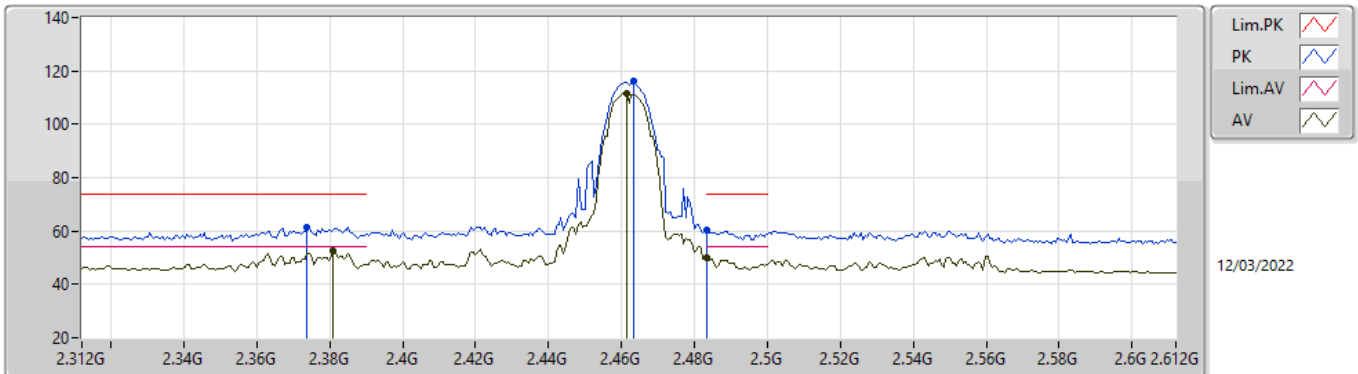


EUT_Z_1TX
Setting 26.5
04-D-K-5

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	2.3744G	58.53	74.00	-15.47	28.29	3	Vertical	0	1.52	-	27.45	2.79	-
AV	2.381G	49.24	54.00	-4.76	18.99	3	Vertical	0	1.52	-	27.46	2.79	-
PK	2.4632G	112.47	Inf	-Inf	81.96	3	Vertical	0	1.52	-	27.68	2.83	-
AV	2.4614G	108.55	Inf	-Inf	78.05	3	Vertical	0	1.52	-	27.67	2.83	-
PK	2.4835G	57.83	74.00	-16.17	27.19	3	Vertical	0	1.52	-	27.80	2.84	-
AV	2.4872G	47.00	54.00	-7.00	16.34	3	Vertical	0	1.52	-	27.82	2.84	-

11b,Ant1_Nss1,(1Mbps)_1TX(Port1)

2462MHz_TX

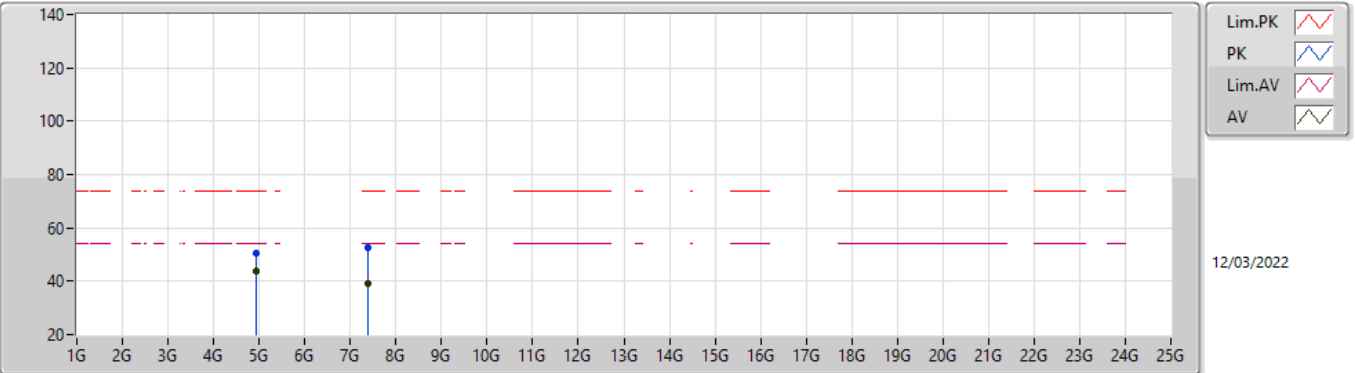


EUT_Z_1TX
Setting 26.5
04-D-K-5

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	2.3738G	61.21	74.00	-12.79	30.97	3	Horizontal	272	2.69	-	27.45	2.79	-
AV	2.381G	52.58	54.00	-1.42	22.33	3	Horizontal	272	2.69	-	27.46	2.79	-
PK	2.4632G	116.36	Inf	-Inf	85.85	3	Horizontal	272	2.69	-	27.68	2.83	-
AV	2.4614G	111.80	Inf	-Inf	81.30	3	Horizontal	272	2.69	-	27.67	2.83	-
PK	2.4835G	60.15	74.00	-13.85	29.51	3	Horizontal	272	2.69	-	27.80	2.84	-
AV	2.4835G	49.96	54.00	-4.04	19.32	3	Horizontal	272	2.69	-	27.80	2.84	-

11b,Ant1_Nss1,(1Mbps)_1TX(Port1)

2462MHz_TX

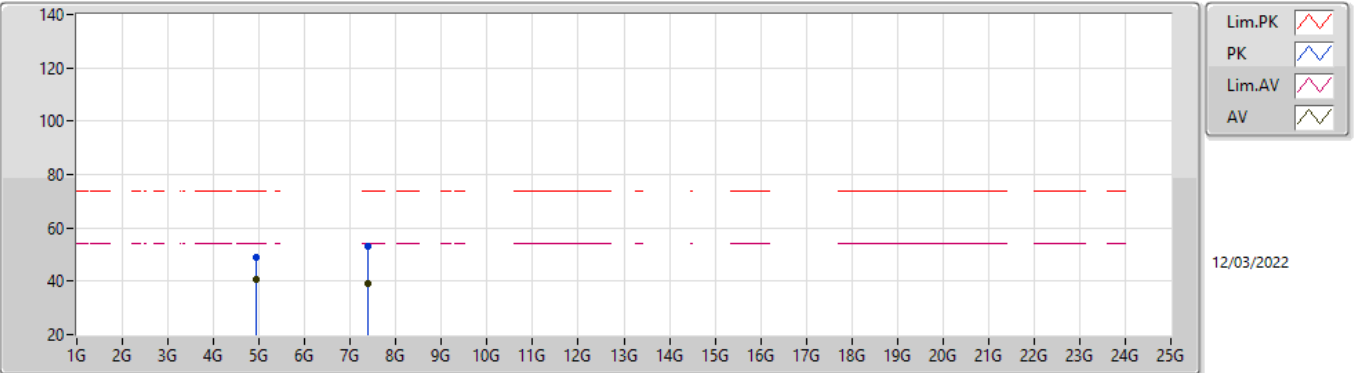


EUT_Z_1TX
Setting 26.5
04-D-K-5

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	4.92394G	50.66	74.00	-23.34	45.95	3	Vertical	94	2.04	-	33.05	4.86	33.20	
AV	4.92396G	43.89	54.00	-10.11	39.18	3	Vertical	94	2.04	-	33.05	4.86	33.20	
PK	7.38484G	52.61	74.00	-21.39	42.63	3	Vertical	149	1.80	-	37.64	6.09	33.75	
AV	7.3956G	39.01	54.00	-14.99	28.99	3	Vertical	149	1.80	-	37.68	6.10	33.76	

11b,Ant1_Nss1,(1Mbps)_1TX(Port1)

2462MHz_TX

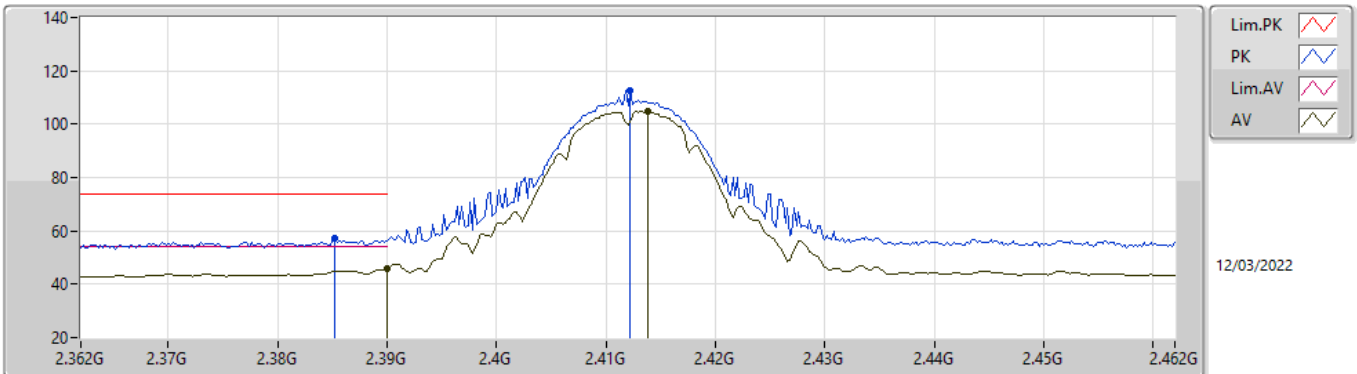


EUT_Z_1TX
Setting 26.5
04-D-K-5

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	4.92399G	48.97	74.00	-25.03	44.26	3	Horizontal	88	1.87	-	33.05	4.86	33.20
AV	4.92397G	40.90	54.00	-13.10	36.19	3	Horizontal	88	1.87	-	33.05	4.86	33.20
PK	7.39352G	53.28	74.00	-20.72	43.27	3	Horizontal	146	1.80	-	37.67	6.10	33.76
AV	7.38696G	39.14	54.00	-14.86	29.15	3	Horizontal	146	1.80	-	37.65	6.09	33.75

11b,Ant2_Nss1,(1Mbps)_1TX(Port2)

2412MHz_TX

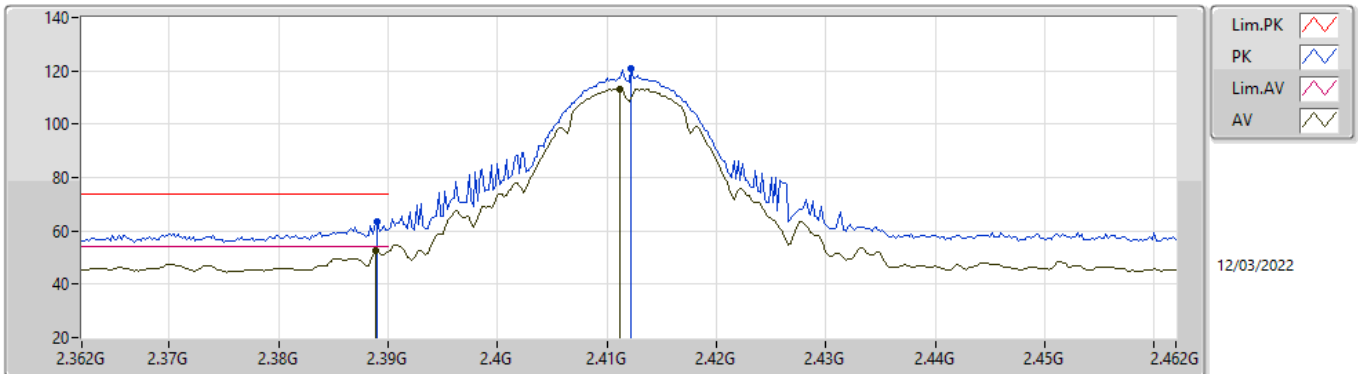


EUT Y_1TX
Setting 27
04-D-K-5

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	2.3852G	57.05	74.00	-16.95	26.79	3	Vertical	339	1.33	-	27.47	2.79	-	
AV	2.39G	45.63	54.00	-8.37	15.36	3	Vertical	339	1.33	-	27.48	2.79	-	
PK	2.4122G	112.59	Inf	-Inf	82.26	3	Vertical	339	1.33	-	27.52	2.81	-	
AV	2.4138G	104.70	Inf	-Inf	74.36	3	Vertical	339	1.33	-	27.53	2.81	-	

11b,Ant2_Nss1,(1Mbps)_1TX(Port2)

2412MHz_TX

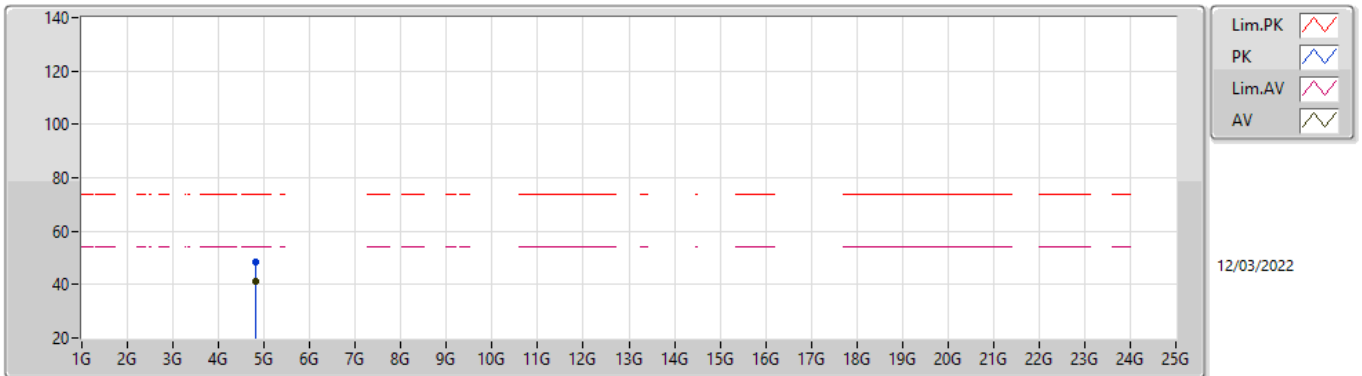


EUT Y_1TX
Setting 27
04-D-K-5

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	2.389G	63.70	74.00	-10.30	33.43	3	Horizontal	279	2.74	-	27.48	2.79	-	
AV	2.3888G	52.62	54.00	-1.38	22.35	3	Horizontal	279	2.74	-	27.48	2.79	-	
PK	2.4122G	121.11	Inf	-Inf	90.78	3	Horizontal	279	2.74	-	27.52	2.81	-	
AV	2.4112G	113.18	Inf	-Inf	82.85	3	Horizontal	279	2.74	-	27.52	2.81	-	

11b,Ant2_Nss1,(1Mbps)_1TX(Port2)

2412MHz_TX

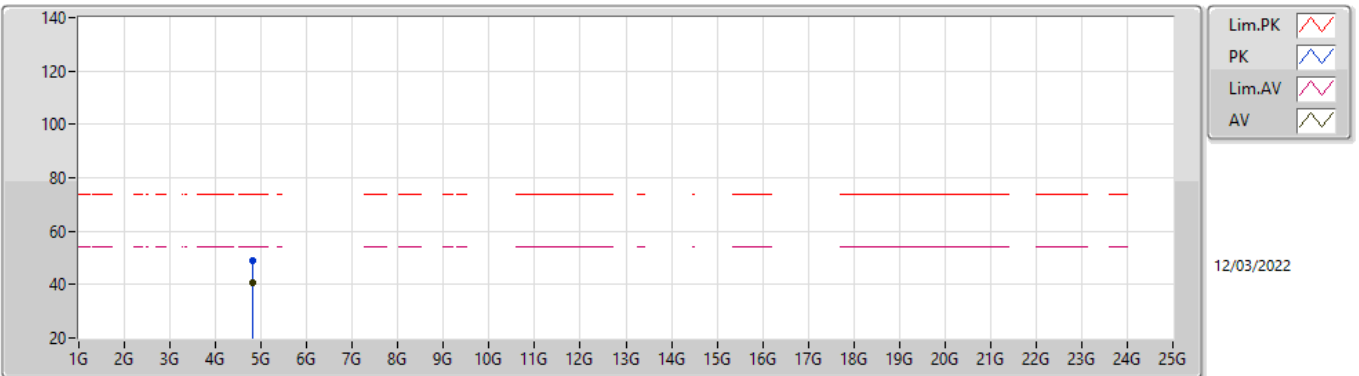


EUT_Z_1TX
Setting 27
04-D-K-5

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	4.82744G	48.25	74.00	-25.75	43.98	3	Vertical	280	2.63	-	32.71	4.81	33.25	
AV	4.82104G	40.95	54.00	-13.05	36.71	3	Vertical	280	2.63	-	32.68	4.81	33.25	

11b,Ant2_Nss1,(1Mbps)_1TX(Port2)

2412MHz_TX

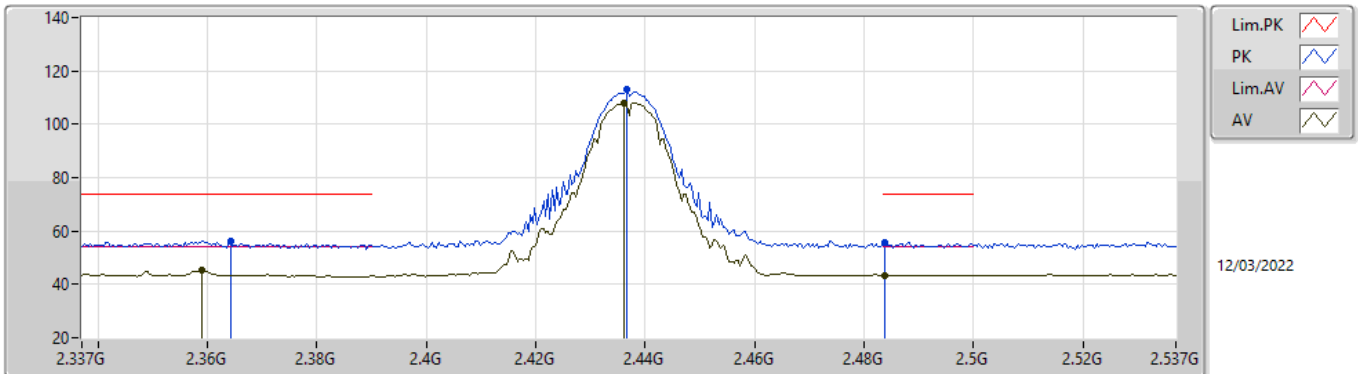


EUT_Z_1TX
Setting 27
04-D-K-5

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	4.82694G	48.82	74.00	-25.18	44.55	3	Horizontal	120	1.21	-	32.71	4.81	33.25	
AV	4.82362G	40.92	54.00	-13.08	36.67	3	Horizontal	120	1.21	-	32.69	4.81	33.25	

11b,Ant2_Nss1,(1Mbps)_1TX(Port2)

2437MHz_TX

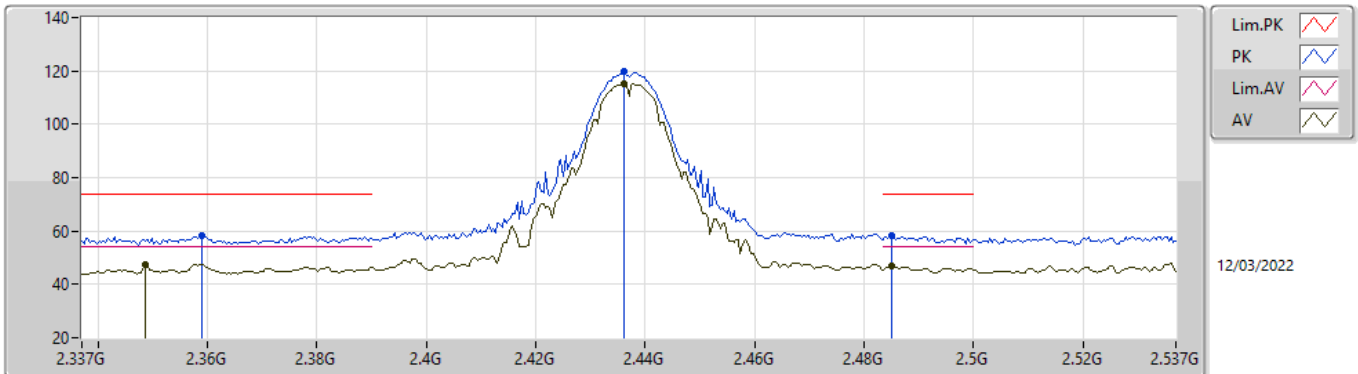


EUT Y_1TX
Setting 28
04-D-K-5

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	2.3642G	56.23	74.00	-17.77	26.02	3	Vertical	20	2.39	-	27.43	2.78	-
AV	2.359G	45.32	54.00	-8.68	15.12	3	Vertical	20	2.39	-	27.42	2.78	-
PK	2.4366G	112.91	Inf	-Inf	82.52	3	Vertical	20	2.39	-	27.57	2.82	-
AV	2.4362G	107.90	Inf	-Inf	77.51	3	Vertical	20	2.39	-	27.57	2.82	-
PK	2.4838G	55.76	74.00	-18.24	25.12	3	Vertical	20	2.39	-	27.80	2.84	-
AV	2.4838G	43.46	54.00	-10.54	12.82	3	Vertical	20	2.39	-	27.80	2.84	-

11b,Ant2_Nss1,(1Mbps)_1TX(Port2)

2437MHz_TX

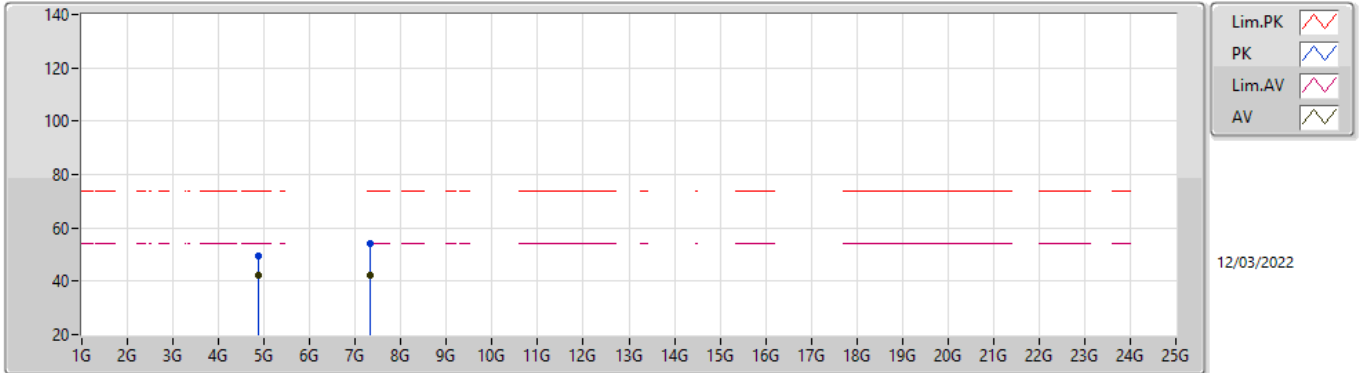


EUT_Y_1TX
Setting 28
04-D-K-5

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	2.359G	58.04	74.00	-15.96	27.84	3	Horizontal	279	2.35	-	27.42	2.78	-
AV	2.3486G	47.56	54.00	-6.44	17.38	3	Horizontal	279	2.35	-	27.41	2.77	-
PK	2.4362G	119.66	Inf	-Inf	89.27	3	Horizontal	279	2.35	-	27.57	2.82	-
AV	2.4362G	115.18	Inf	-Inf	84.79	3	Horizontal	279	2.35	-	27.57	2.82	-
PK	2.485G	58.24	74.00	-15.76	27.59	3	Horizontal	279	2.35	-	27.81	2.84	-
AV	2.485G	46.69	54.00	-7.31	16.04	3	Horizontal	279	2.35	-	27.81	2.84	-

11b,Ant2_Nss1,(1Mbps)_1TX(Port2)

2437MHz_TX

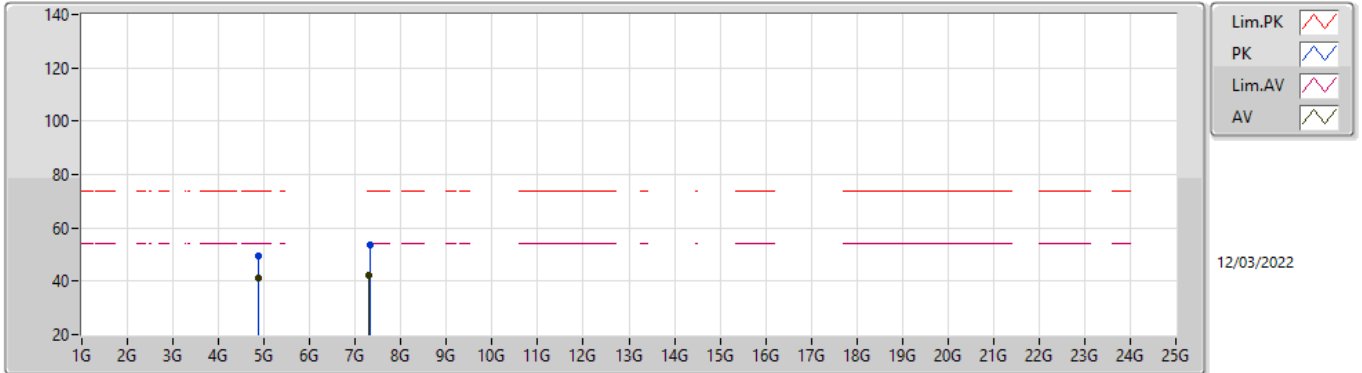


EUT_Z_1TX
Setting 28
04-D-K-5

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	4.87403G	49.47	74.00	-24.53	44.96	3	Vertical	72	1.89	-	32.90	4.84	33.23	
AV	4.87395G	42.11	54.00	-11.89	37.60	3	Vertical	72	1.89	-	32.90	4.84	33.23	
PK	7.31112G	54.01	74.00	-19.99	44.11	3	Vertical	117	1.63	-	37.50	6.06	33.66	
AV	7.31168G	42.18	54.00	-11.82	32.28	3	Vertical	117	1.63	-	37.50	6.06	33.66	

11b,Ant2_Nss1,(1Mbps)_1TX(Port2)

2437MHz_TX

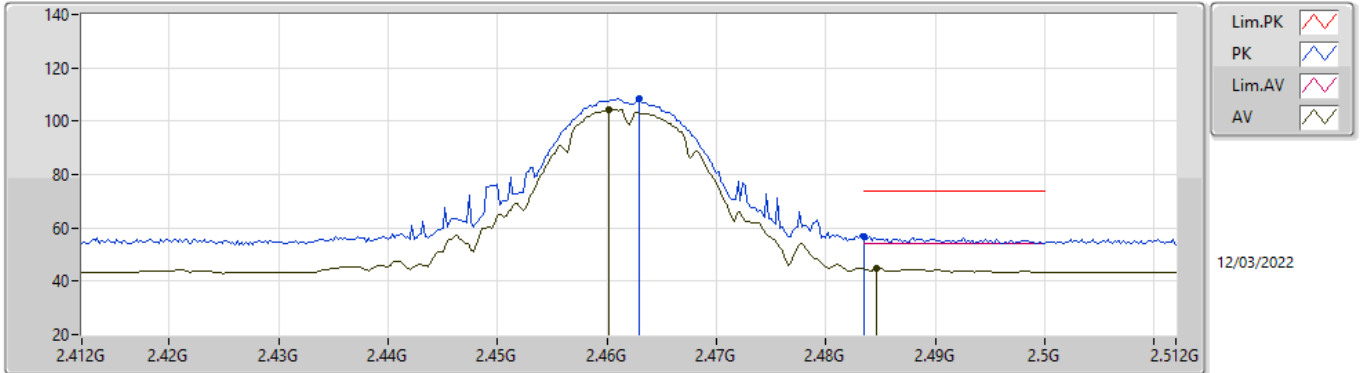


EUT_Z_1TX
Setting 28
04-D-K-5

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	4.87398G	49.37	74.00	-24.63	44.86	3	Horizontal	163	1.98	-	32.90	4.84	33.23	
AV	4.87396G	41.02	54.00	-12.98	36.51	3	Horizontal	163	1.98	-	32.90	4.84	33.23	
PK	7.31196G	53.37	74.00	-20.63	43.47	3	Horizontal	91	1.96	-	37.50	6.06	33.66	
AV	7.3102G	42.08	54.00	-11.92	32.18	3	Horizontal	91	1.96	-	37.50	6.06	33.66	

11b,Ant2_Nss1,(1Mbps)_1TX(Port2)

2462MHz_TX

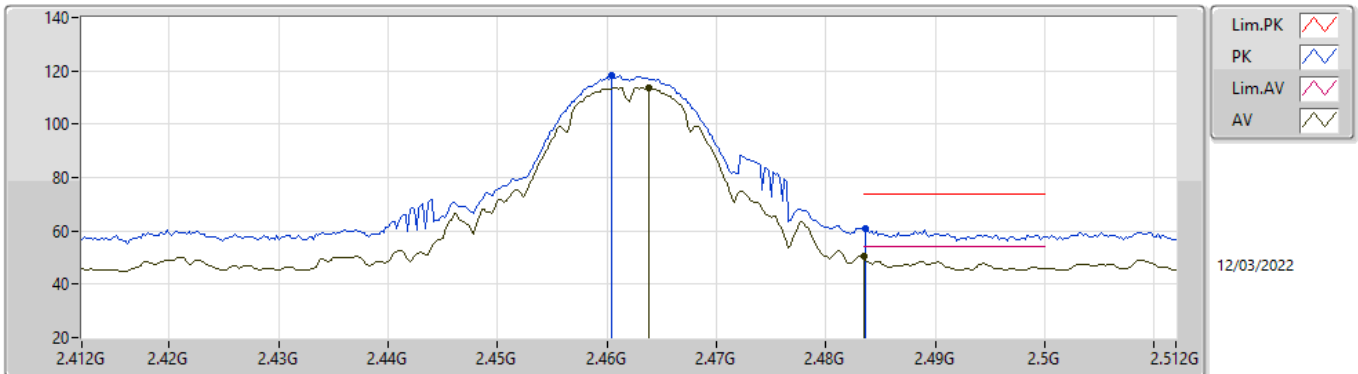


EUTY_1TX
Setting 27
04-D-K-5

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	108.41	Inf	-Inf	77.90	3	Vertical	30	2.41	-	27.68	2.83	-	
AV	2.4602G	104.35	Inf	-Inf	73.86	3	Vertical	30	2.41	-	27.66	2.83	-	
PK	2.4835G	56.63	74.00	-17.37	25.99	3	Vertical	30	2.41	-	27.80	2.84	-	
AV	2.4846G	45.08	54.00	-8.92	14.43	3	Vertical	30	2.41	-	27.81	2.84	-	

11b,Ant2_Nss1,(1Mbps)_1TX(Port2)

2462MHz_TX

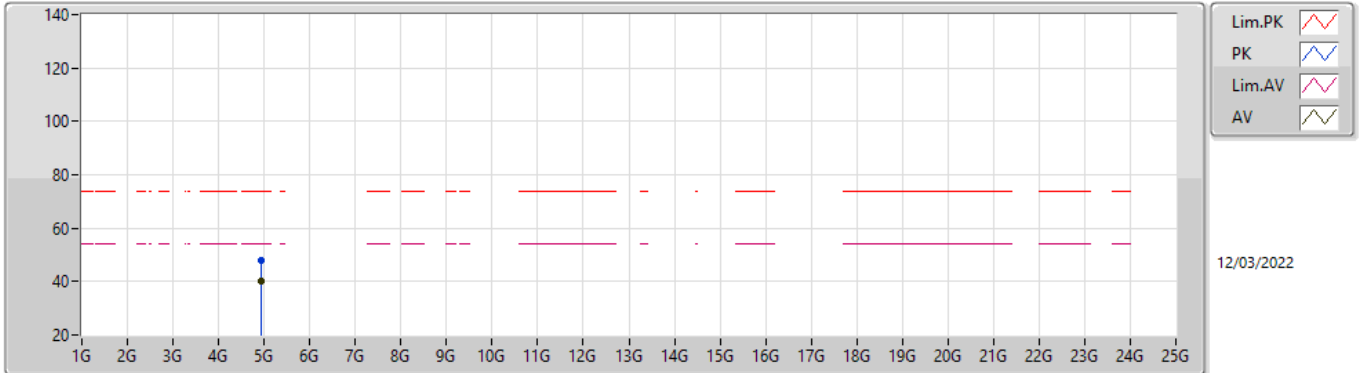


EUT Y_1TX
Setting 27
04-D-K-5

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	2.4604G	118.24	Inf	-Inf	87.75	3	Horizontal	288	1.42	-	27.66	2.83	-	
AV	2.4638G	113.69	Inf	-Inf	83.18	3	Horizontal	288	1.42	-	27.68	2.83	-	
PK	2.4836G	60.76	74.00	-13.24	30.12	3	Horizontal	288	1.42	-	27.80	2.84	-	
AV	2.4835G	50.44	54.00	-3.56	19.80	3	Horizontal	288	1.42	-	27.80	2.84	-	

11b,Ant2_Nss1,(1Mbps)_1TX(Port2)

2462MHz_TX

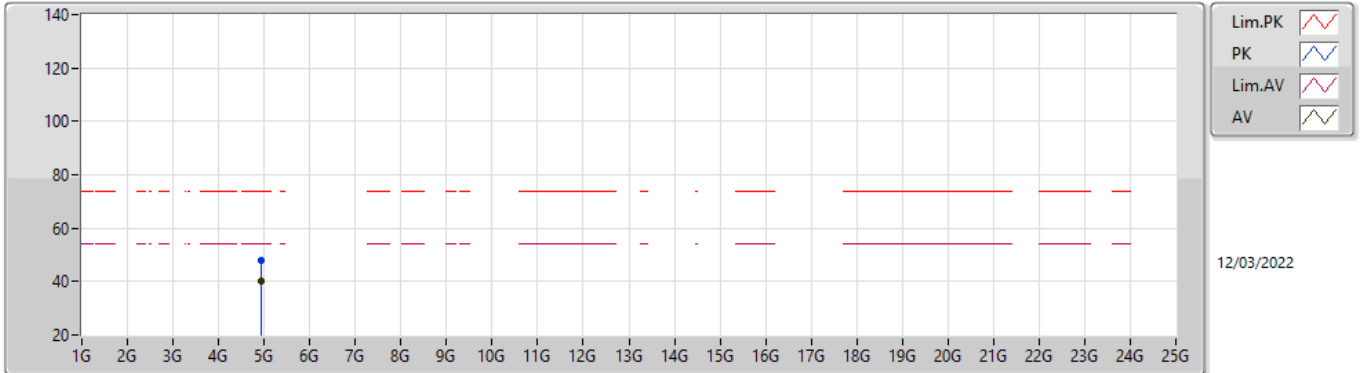


EUT_Z_1TX
Setting 27
04-D-K-5

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	4.92746G	48.05	74.00	-25.95	43.34	3	Vertical	35	2.92	-	33.05	4.86	33.20	
AV	4.92318G	40.16	54.00	-13.84	35.45	3	Vertical	35	2.92	-	33.05	4.86	33.20	

11b,Ant2_Nss1,(1Mbps)_1TX(Port2)

2462MHz_TX

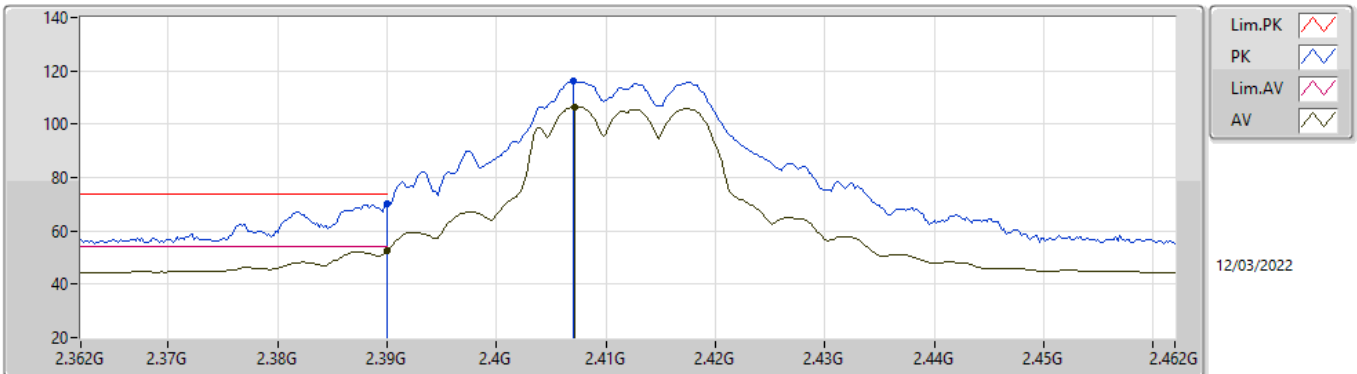


EUT_Z_1TX
Setting 27
04-D-K-5

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	4.92764G	48.12	74.00	-25.88	43.40	3	Horizontal	195	2.24	-	33.06	4.86	33.20	
AV	4.9197G	40.15	54.00	-13.85	35.45	3	Horizontal	195	2.24	-	33.04	4.86	33.20	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

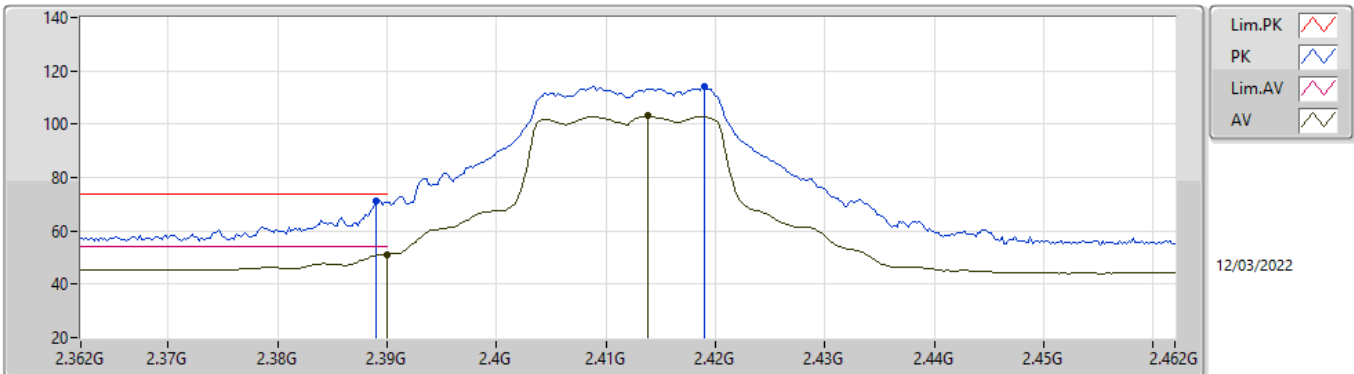


EUT X_2TX
Setting 22
04-D-K-5

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	2.39G	70.31	74.00	-3.69	40.04	3	Vertical	297	2.85	-	27.48	2.79	-	
AV	2.39G	52.51	54.00	-1.49	22.24	3	Vertical	297	2.85	-	27.48	2.79	-	
PK	2.407G	116.25	Inf	-Inf	85.94	3	Vertical	297	2.85	-	27.51	2.80	-	
AV	2.4072G	106.59	Inf	-Inf	76.28	3	Vertical	297	2.85	-	27.51	2.80	-	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

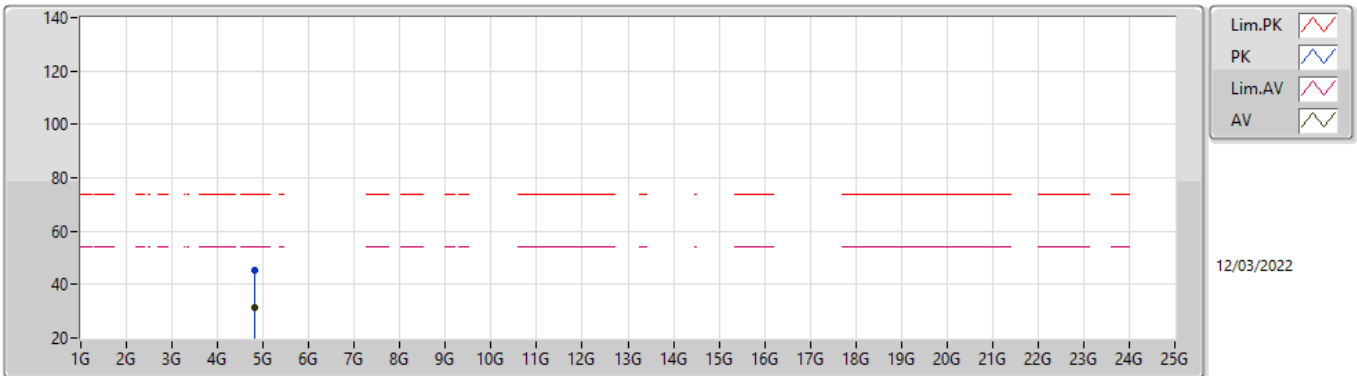


EUT X_2TX
Setting 22
04-D-K-5

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	2.389G	71.14	74.00	-2.86	40.87	3	Horizontal	82	1.15	-	27.48	2.79	-
AV	2.39G	51.22	54.00	-2.78	20.95	3	Horizontal	82	1.15	-	27.48	2.79	-
PK	2.419G	113.91	Inf	-Inf	83.56	3	Horizontal	82	1.15	-	27.54	2.81	-
AV	2.4138G	103.10	Inf	-Inf	72.76	3	Horizontal	82	1.15	-	27.53	2.81	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

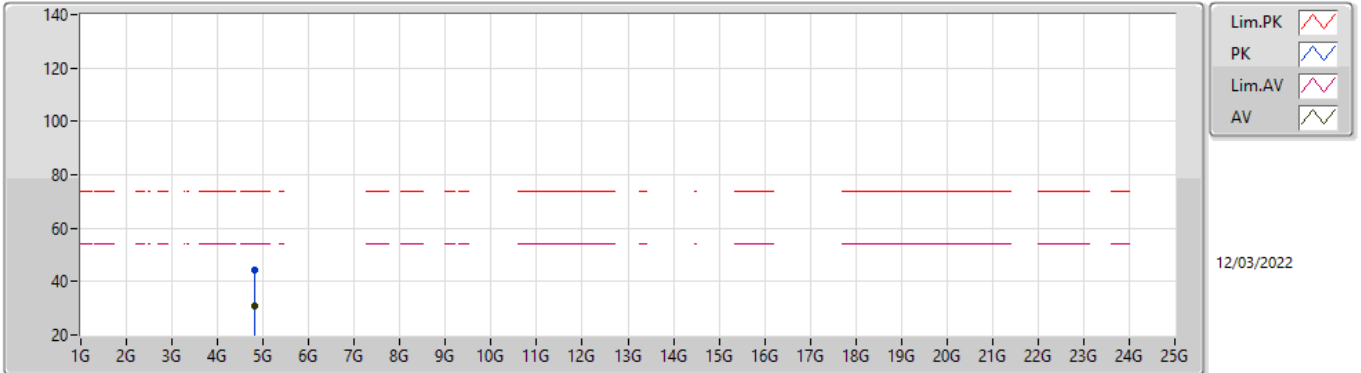


EUT_Z_2TX
Setting 22
04-D-K-5

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	4.82256G	45.41	74.00	-28.59	41.16	3	Vertical	238	1.17	-	32.69	4.81	33.25
AV	4.82398G	31.24	54.00	-22.76	26.98	3	Vertical	238	1.17	-	32.70	4.81	33.25

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

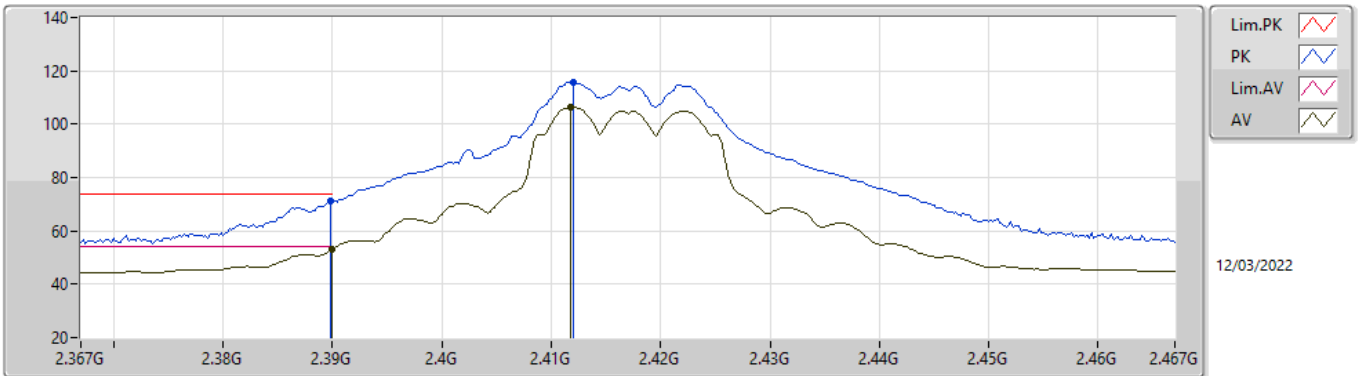


EUT_Z_2TX
Setting 22
04-D-K-5

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	4.82216G	44.33	74.00	-29.67	40.08	3	Horizontal	171	2.05	-	32.69	4.81	33.25
AV	4.82394G	30.72	54.00	-23.28	26.46	3	Horizontal	171	2.05	-	32.70	4.81	33.25

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

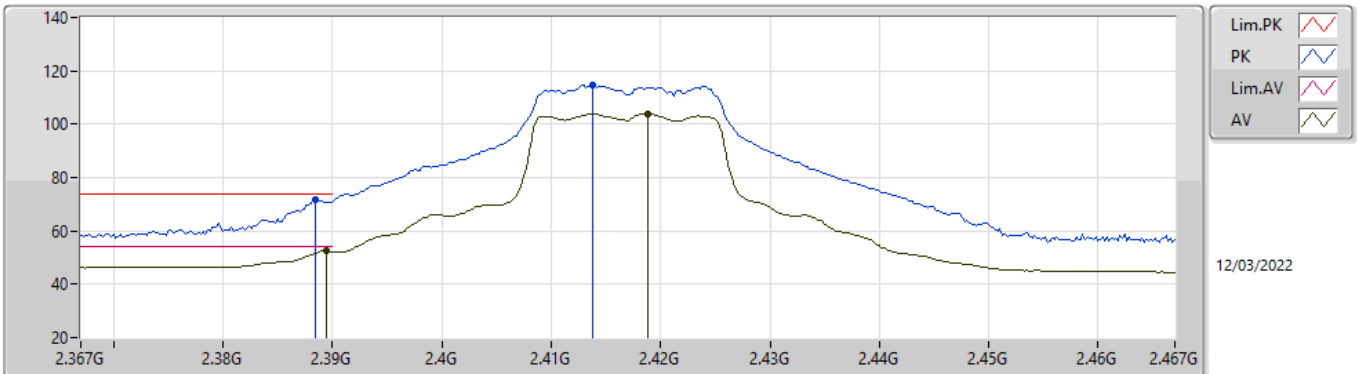


EUT X_2TX
Setting 23
04-D-K-5

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	71.06	74.00	-2.94	40.79	3	Vertical	278	2.61	-	27.48	2.79	-	
AV	2.39G	52.98	54.00	-1.02	22.71	3	Vertical	278	2.61	-	27.48	2.79	-	
PK	2.412G	115.94	Inf	-Inf	85.61	3	Vertical	278	2.61	-	27.52	2.81	-	
AV	2.4118G	106.30	Inf	-Inf	75.97	3	Vertical	278	2.61	-	27.52	2.81	-	

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

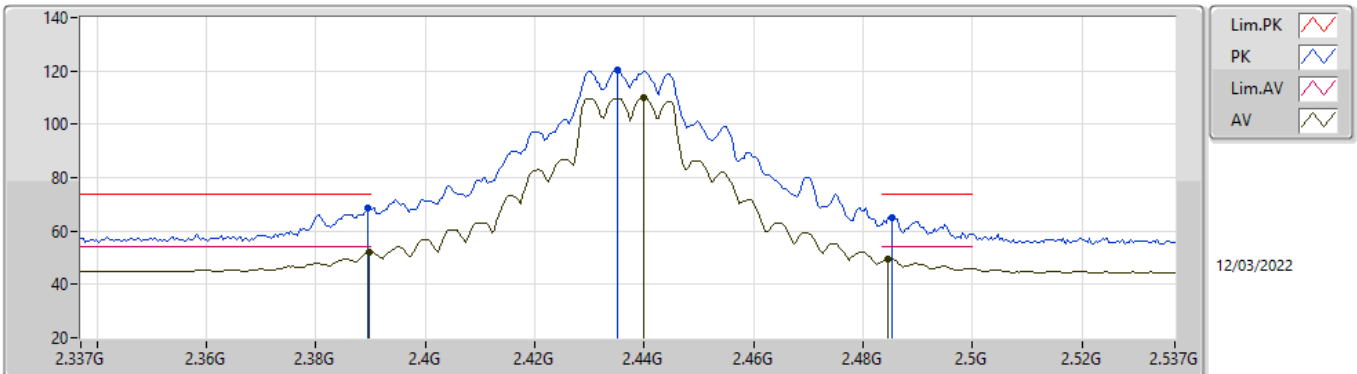


EUT X_2TX
Setting 23
04-D-K-5

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	2.3884G	71.62	74.00	-2.38	41.35	3	Horizontal	82	1.16	-	27.48	2.79	-	
AV	2.3894G	52.44	54.00	-1.56	22.17	3	Horizontal	82	1.16	-	27.48	2.79	-	
PK	2.4138G	114.86	Inf	-Inf	84.52	3	Horizontal	82	1.16	-	27.53	2.81	-	
AV	2.4188G	103.92	Inf	-Inf	73.57	3	Horizontal	82	1.16	-	27.54	2.81	-	

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

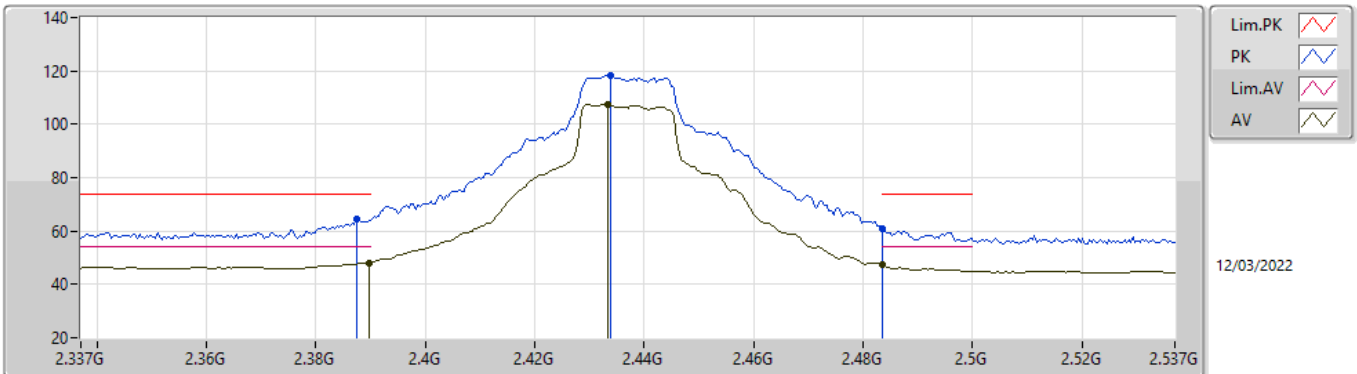


EUT_X_2TX
Setting 28
04-D-K-5

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	68.41	74.00	-5.59	38.14	3	Vertical	135	1.80	-	27.48	2.79	-
AV	2.3898G	51.99	54.00	-2.01	21.72	3	Vertical	135	1.80	-	27.48	2.79	-
PK	2.435G	120.32	Inf	-Inf	89.93	3	Vertical	135	1.80	-	27.57	2.82	-
AV	2.4398G	109.76	Inf	-Inf	79.36	3	Vertical	135	1.80	-	27.58	2.82	-
PK	2.4854G	65.07	74.00	-8.93	34.42	3	Vertical	135	1.80	-	27.81	2.84	-
AV	2.4846G	49.34	54.00	-4.66	18.69	3	Vertical	135	1.80	-	27.81	2.84	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

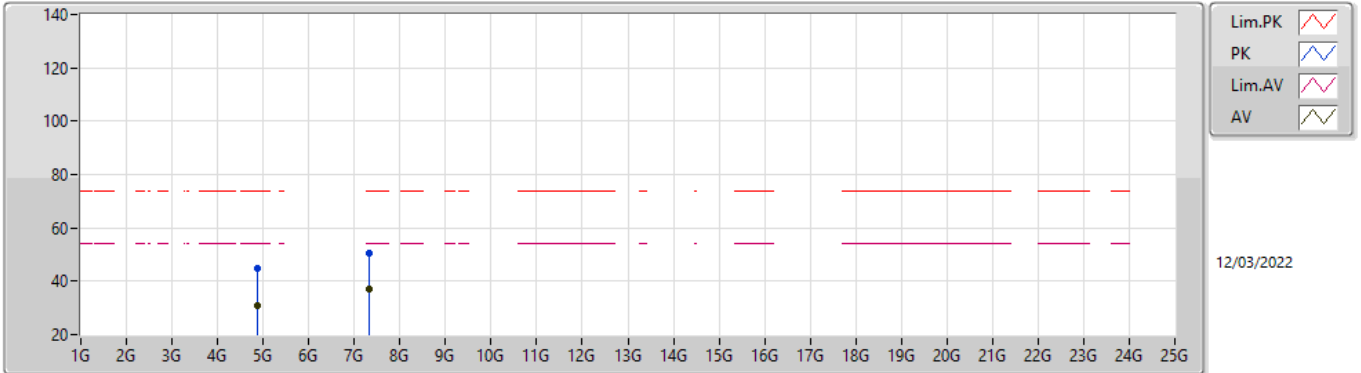


EUT X_2TX
Setting 28
04-D-K-5

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	2.3874G	64.31	74.00	-9.69	34.05	3	Horizontal	83	2.92	-	27.47	2.79	-
AV	2.3898G	48.17	54.00	-5.83	17.90	3	Horizontal	83	2.92	-	27.48	2.79	-
PK	2.4338G	118.08	Inf	-Inf	87.69	3	Horizontal	83	2.92	-	27.57	2.82	-
AV	2.4334G	107.32	Inf	-Inf	76.93	3	Horizontal	83	2.92	-	27.57	2.82	-
PK	2.4835G	60.84	74.00	-13.16	30.20	3	Horizontal	83	2.92	-	27.80	2.84	-
AV	2.4835G	47.18	54.00	-6.82	16.54	3	Horizontal	83	2.92	-	27.80	2.84	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

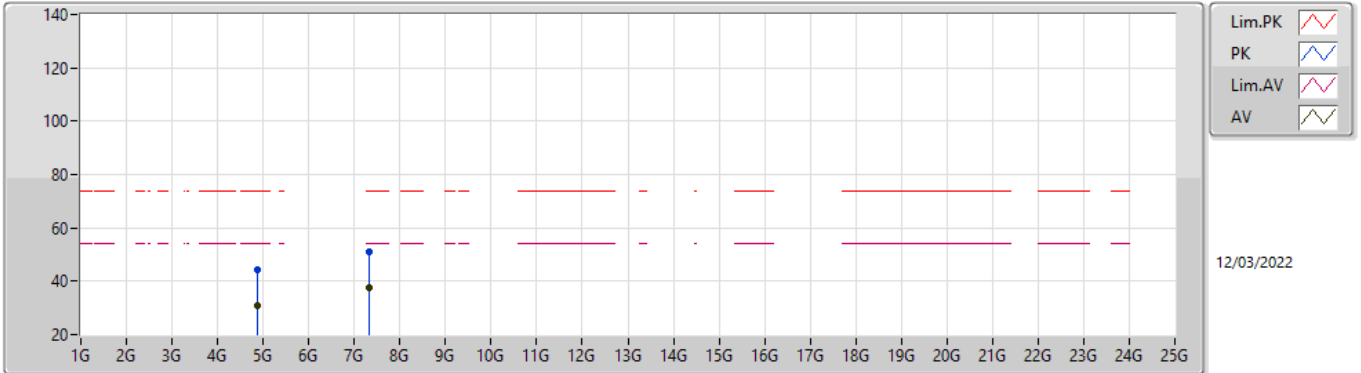


EUT_Z_2TX
Setting 28
04-D-K-5

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	4.8784G	44.88	74.00	-29.12	40.35	3	Vertical	323	1.80	-	32.91	4.84	33.22
AV	4.87428G	30.93	54.00	-23.07	26.42	3	Vertical	323	1.80	-	32.90	4.84	33.23
PK	7.31592G	50.73	74.00	-23.27	40.84	3	Vertical	185	2.83	-	37.50	6.06	33.67
AV	7.31948G	37.23	54.00	-16.77	27.34	3	Vertical	185	2.83	-	37.50	6.06	33.67

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

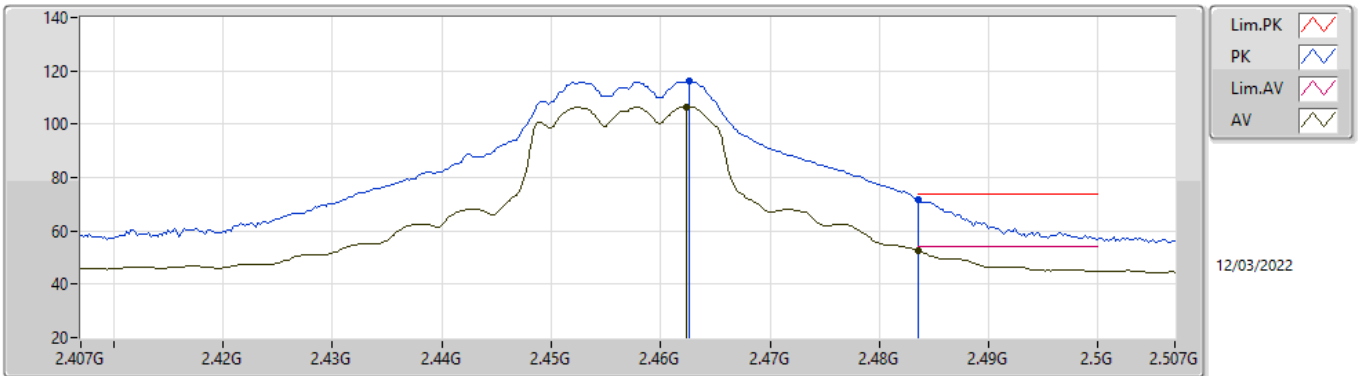


EUT_Z_2TX
Setting 28
04-D-K-5

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	4.87144G	44.55	74.00	-29.45	40.05	3	Horizontal	186	1.80	-	32.89	4.84	33.23
AV	4.87344G	30.85	54.00	-23.15	26.35	3	Horizontal	186	1.80	-	32.89	4.84	33.23
PK	7.31904G	50.99	74.00	-23.01	41.10	3	Horizontal	92	2.96	-	37.50	6.06	33.67
AV	7.32008G	37.40	54.00	-16.60	27.51	3	Horizontal	92	2.96	-	37.50	6.06	33.67

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

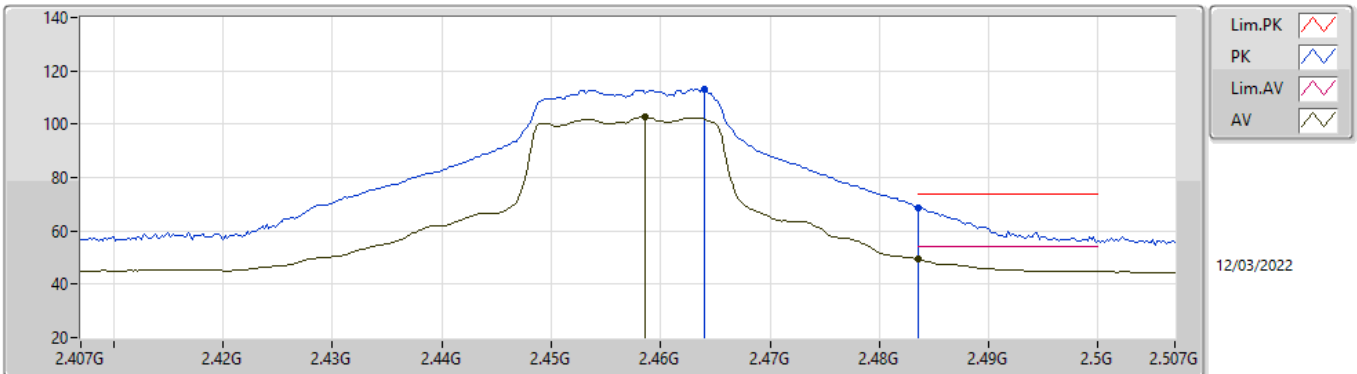


EUT X_2TX
Setting 22.5
04-D-K-5

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	2.4626G	116.42	Inf	-Inf	85.91	3	Vertical	275	1.10	-	27.68	2.83	-
AV	2.4624G	106.63	Inf	-Inf	76.13	3	Vertical	275	1.10	-	27.67	2.83	-
PK	2.4835G	71.90	74.00	-2.10	41.26	3	Vertical	275	1.10	-	27.80	2.84	-
AV	2.4835G	52.62	54.00	-1.38	21.98	3	Vertical	275	1.10	-	27.80	2.84	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

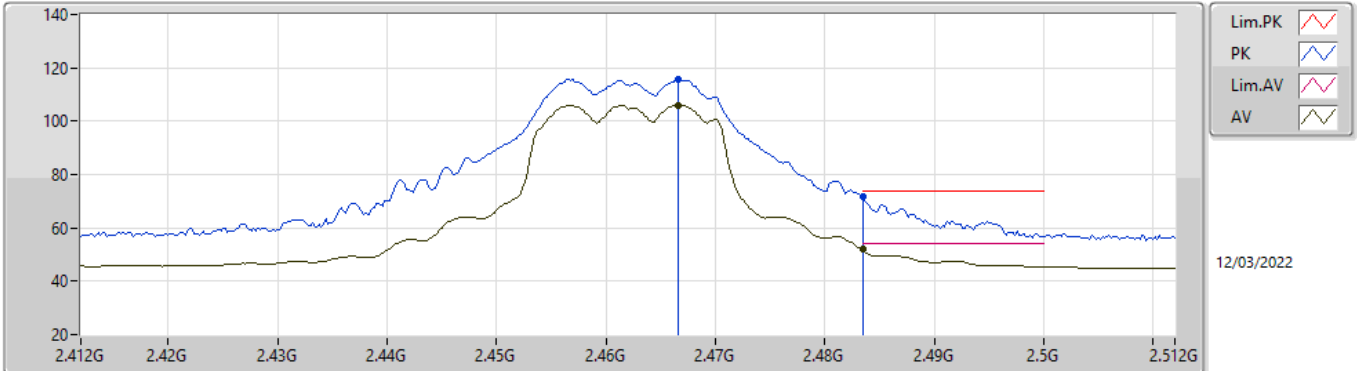


EUT X_2TX
Setting 22.5
04-D-K-5

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	2.464G	113.16	Inf	-Inf	82.65	3	Horizontal	85	1.61	-	27.68	2.83	-	
AV	2.4586G	102.66	Inf	-Inf	72.18	3	Horizontal	85	1.61	-	27.65	2.83	-	
PK	2.4835G	68.59	74.00	-5.41	37.95	3	Horizontal	85	1.61	-	27.80	2.84	-	
AV	2.4835G	49.41	54.00	-4.59	18.77	3	Horizontal	85	1.61	-	27.80	2.84	-	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

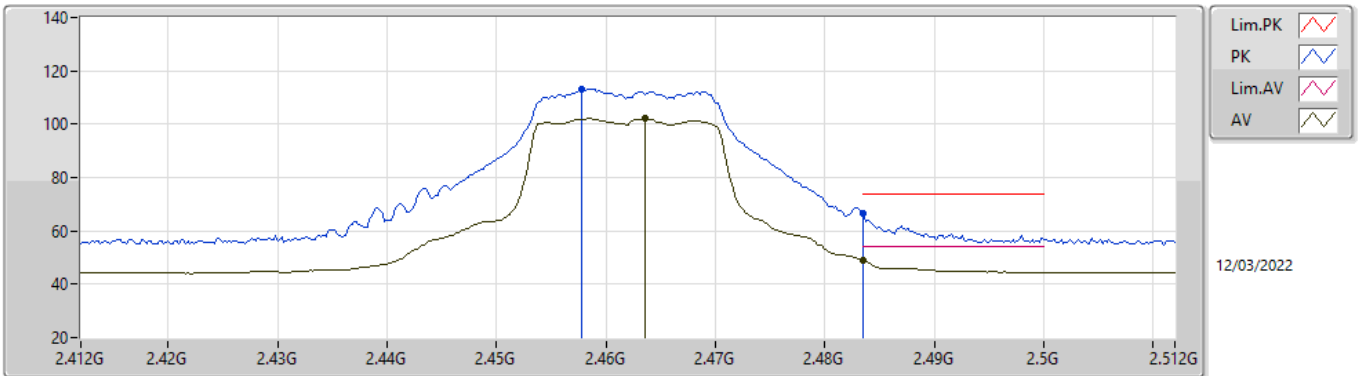


EUT X_2TX
Setting 21.5
04-D-K-5

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	2.4666G	115.75	Inf	-Inf	85.22	3	Vertical	264	1.12	-	27.70	2.83	-	
AV	2.4666G	105.92	Inf	-Inf	75.39	3	Vertical	264	1.12	-	27.70	2.83	-	
PK	2.4835G	71.80	74.00	-2.20	41.16	3	Vertical	264	1.12	-	27.80	2.84	-	
AV	2.4835G	51.83	54.00	-2.17	21.19	3	Vertical	264	1.12	-	27.80	2.84	-	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

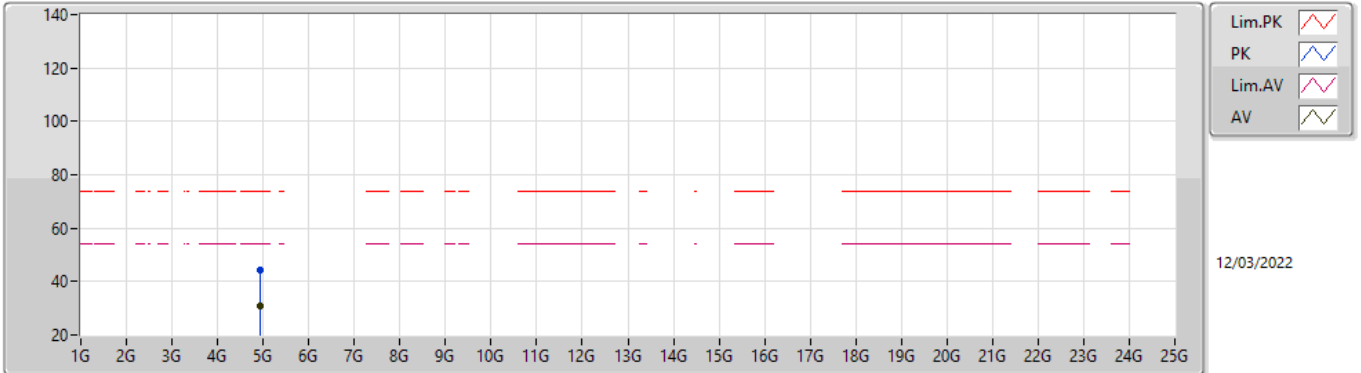


EUT X_2TX
Setting 21.5
04-D-K-5

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	2.4578G	113.13	Inf	-Inf	82.65	3	Horizontal	83	1.59	-	27.65	2.83	-	
AV	2.4636G	102.05	Inf	-Inf	71.54	3	Horizontal	83	1.59	-	27.68	2.83	-	
PK	2.4835G	66.60	74.00	-7.40	35.96	3	Horizontal	83	1.59	-	27.80	2.84	-	
AV	2.4835G	49.00	54.00	-5.00	18.36	3	Horizontal	83	1.59	-	27.80	2.84	-	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

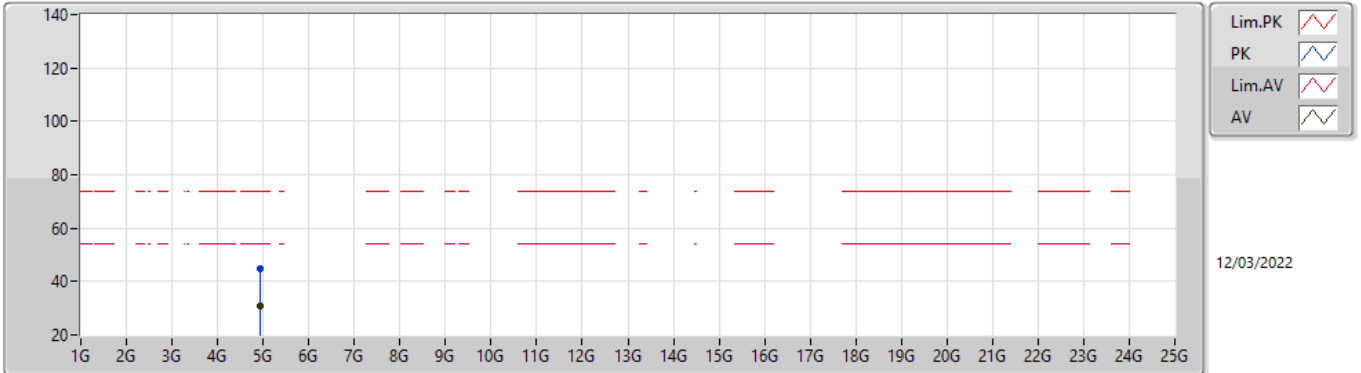


EUT_Z_2TX
Setting 21.5
04-D-K-5

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	4.92198G	44.47	74.00	-29.53	39.77	3	Vertical	332	2.72	-	33.04	4.86	33.20	
AV	4.9238G	31.08	54.00	-22.92	26.37	3	Vertical	332	2.72	-	33.05	4.86	33.20	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

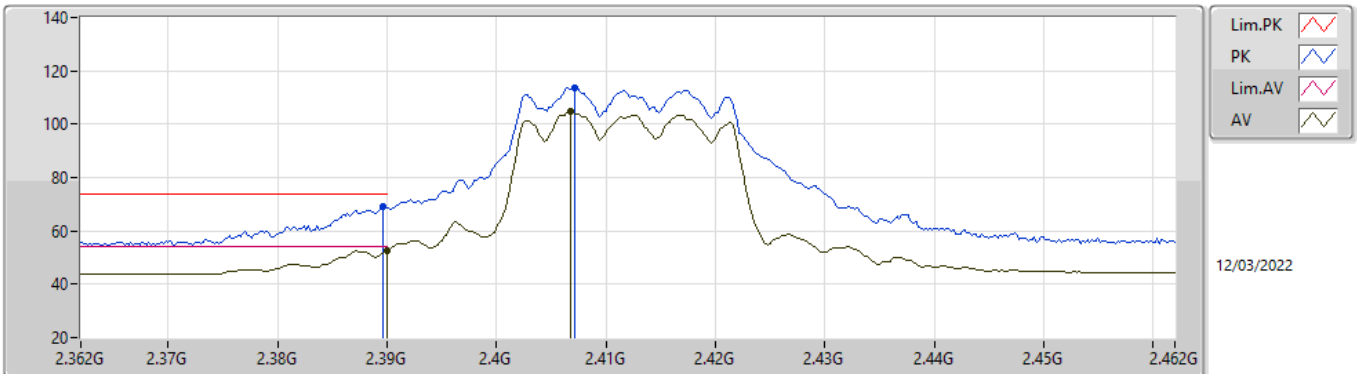


EUT_Z_2TX
Setting 21.5
04-D-K-5

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	4.92656G	45.00	74.00	-29.00	40.29	3	Horizontal	125	2.59	-	33.05	4.86	33.20	
AV	4.92686G	31.09	54.00	-22.91	26.38	3	Horizontal	125	2.59	-	33.05	4.86	33.20	

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

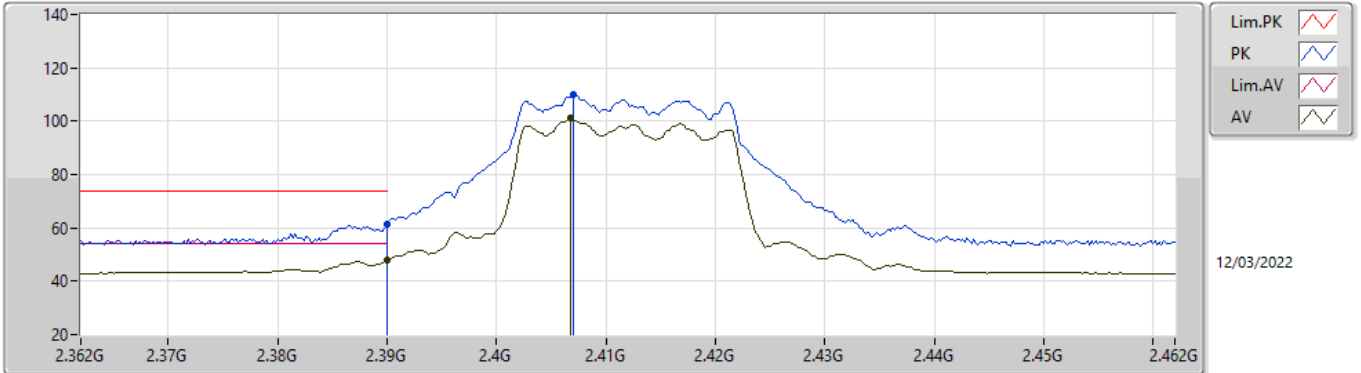


EUT X_2TX
Setting 20.5
04-D-K-5

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	2.3896G	69.18	74.00	-4.82	38.91	3	Vertical	281	2.59	-	27.48	2.79	-	
AV	2.39G	52.51	54.00	-1.49	22.24	3	Vertical	281	2.59	-	27.48	2.79	-	
PK	2.4072G	113.68	Inf	-Inf	83.37	3	Vertical	281	2.59	-	27.51	2.80	-	
AV	2.4068G	104.97	Inf	-Inf	74.66	3	Vertical	281	2.59	-	27.51	2.80	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

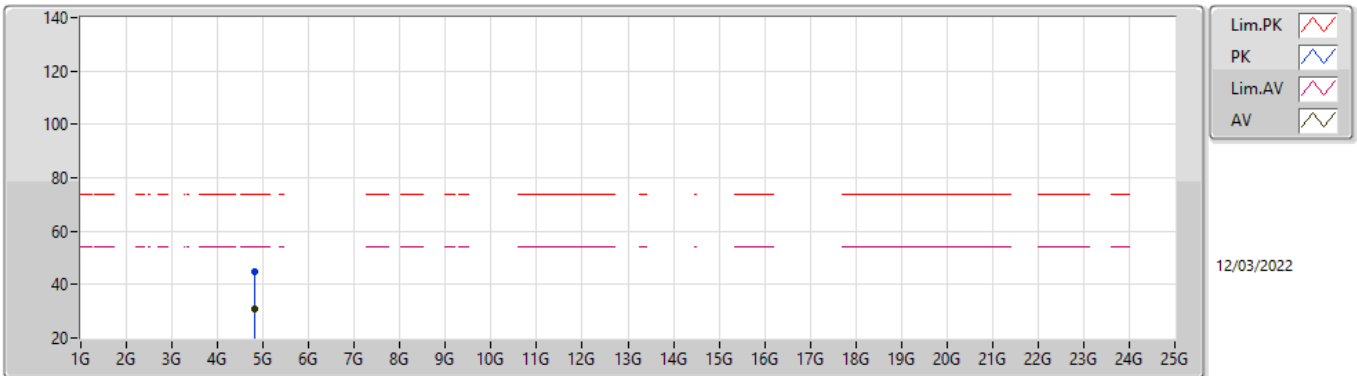


EUT X_2TX
Setting 20.5
04-D-K-5

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	2.39G	61.41	74.00	-12.59	31.14	3	Horizontal	59	2.68	-	27.48	2.79	-	
AV	2.39G	47.78	54.00	-6.22	17.51	3	Horizontal	59	2.68	-	27.48	2.79	-	
PK	2.407G	110.20	Inf	-Inf	79.89	3	Horizontal	59	2.68	-	27.51	2.80	-	
AV	2.4068G	101.06	Inf	-Inf	70.75	3	Horizontal	59	2.68	-	27.51	2.80	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

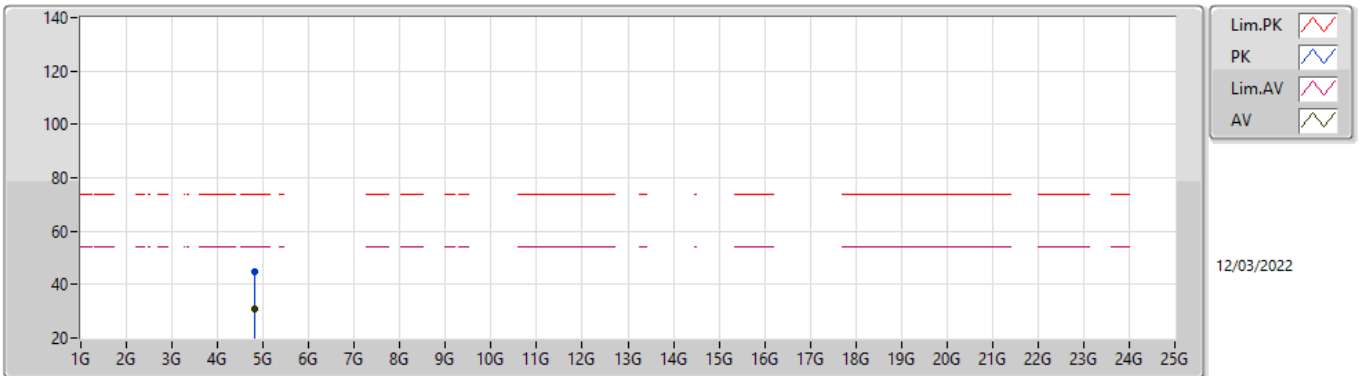


EUT_Z_2TX
Setting 20.5
04-D-K-5

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	4.8266G	44.80	74.00	-29.20	40.53	3	Vertical	99	2.25	-	32.71	4.81	33.25
AV	4.821G	30.87	54.00	-23.13	26.63	3	Vertical	99	2.25	-	32.68	4.81	33.25

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

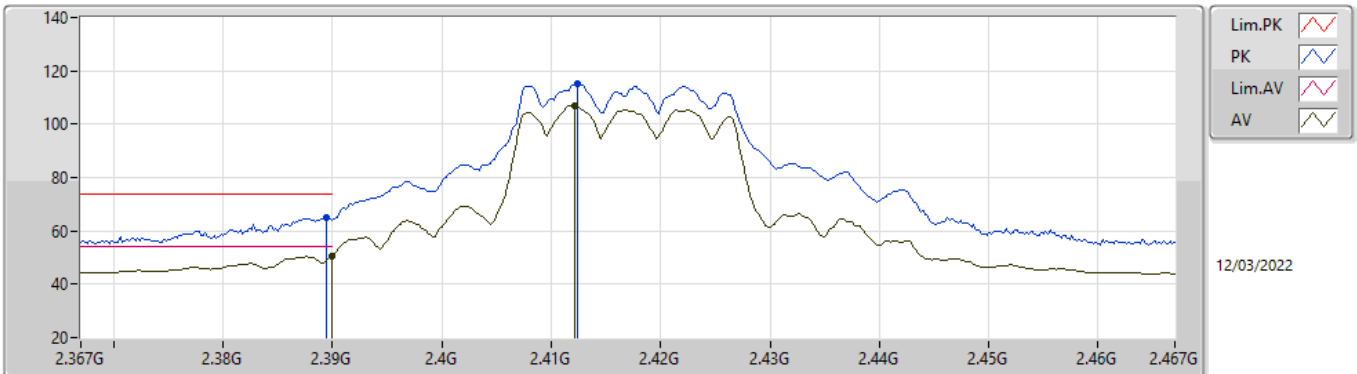


EUT_Z_2TX
Setting 20.5
04-D-K-5

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	4.82474G	45.01	74.00	-28.99	40.75	3	Horizontal	220	1.25	-	32.70	4.81	33.25
AV	4.82714G	30.81	54.00	-23.19	26.54	3	Horizontal	220	1.25	-	32.71	4.81	33.25

802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

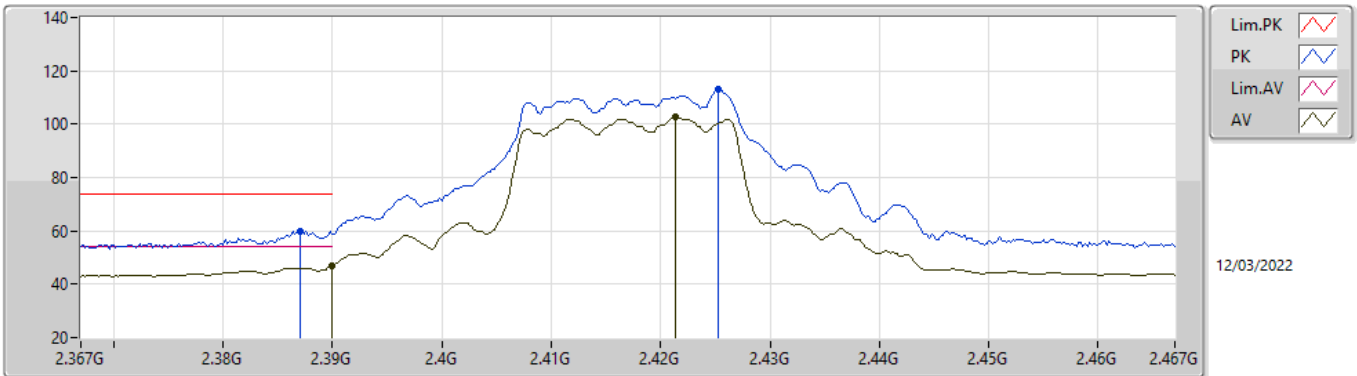


EUT X_2TX
Setting 22.5
04-D-K-5

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	64.87	74.00	-9.13	34.60	3	Vertical	288	2.87	-	27.48	2.79	-	
AV	2.39G	50.60	54.00	-3.40	20.33	3	Vertical	288	2.87	-	27.48	2.79	-	
PK	2.4124G	115.19	Inf	-Inf	84.86	3	Vertical	288	2.87	-	27.52	2.81	-	
AV	2.4122G	106.79	Inf	-Inf	76.46	3	Vertical	288	2.87	-	27.52	2.81	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

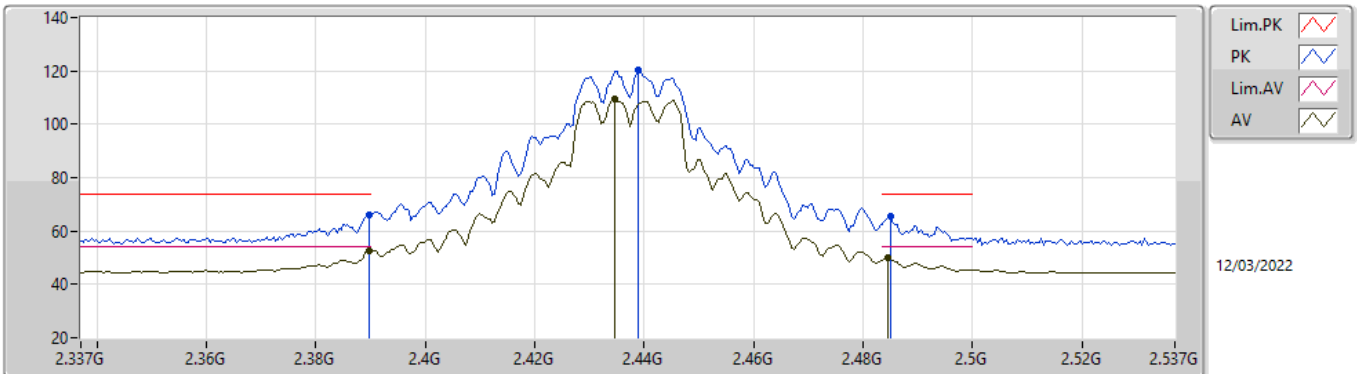


EUT X_2TX
Setting 22.5
04-D-K-5

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	60.07	74.00	-13.93	29.81	3	Horizontal	60	2.60	-	27.47	2.79	-	
AV	2.39G	46.79	54.00	-7.21	16.52	3	Horizontal	60	2.60	-	27.48	2.79	-	
PK	2.4252G	113.10	Inf	-Inf	82.74	3	Horizontal	60	2.60	-	27.55	2.81	-	
AV	2.4214G	102.79	Inf	-Inf	72.44	3	Horizontal	60	2.60	-	27.54	2.81	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

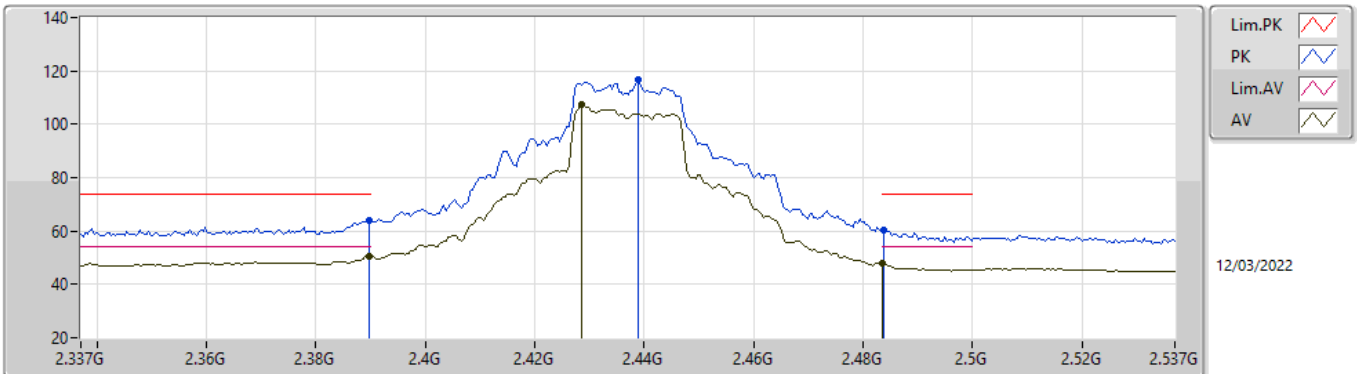


EUT X_2TX
Setting 27.5
04-D-K-5

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	66.17	74.00	-7.83	35.90	3	Vertical	136	1.80	-	27.48	2.79	-
AV	2.3898G	52.83	54.00	-1.17	22.56	3	Vertical	136	1.80	-	27.48	2.79	-
PK	2.439G	120.10	Inf	-Inf	89.70	3	Vertical	136	1.80	-	27.58	2.82	-
AV	2.4346G	109.36	Inf	-Inf	78.97	3	Vertical	136	1.80	-	27.57	2.82	-
PK	2.485G	65.53	74.00	-8.47	34.88	3	Vertical	136	1.80	-	27.81	2.84	-
AV	2.4846G	49.95	54.00	-4.05	19.30	3	Vertical	136	1.80	-	27.81	2.84	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

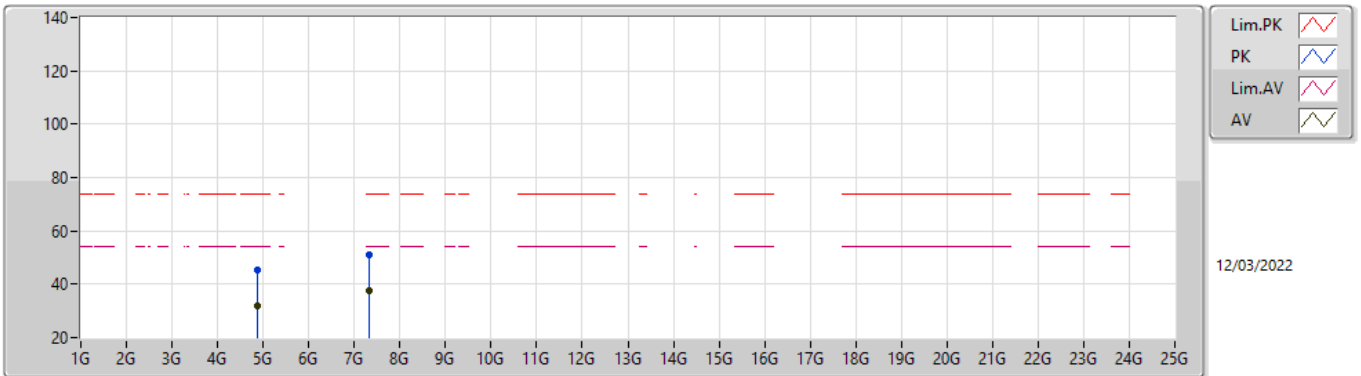


EUT_X_2TX
Setting 27.5
04-D-K-5

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	63.88	74.00	-10.12	33.61	3	Horizontal	81	1.19	-	27.48	2.79	-
AV	2.3898G	50.68	54.00	-3.32	20.41	3	Horizontal	81	1.19	-	27.48	2.79	-
PK	2.439G	116.48	Inf	-Inf	86.08	3	Horizontal	81	1.19	-	27.58	2.82	-
AV	2.4286G	107.26	Inf	-Inf	76.89	3	Horizontal	81	1.19	-	27.56	2.81	-
PK	2.4838G	60.50	74.00	-13.50	29.86	3	Horizontal	81	1.19	-	27.80	2.84	-
AV	2.4835G	47.80	54.00	-6.20	17.16	3	Horizontal	81	1.19	-	27.80	2.84	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

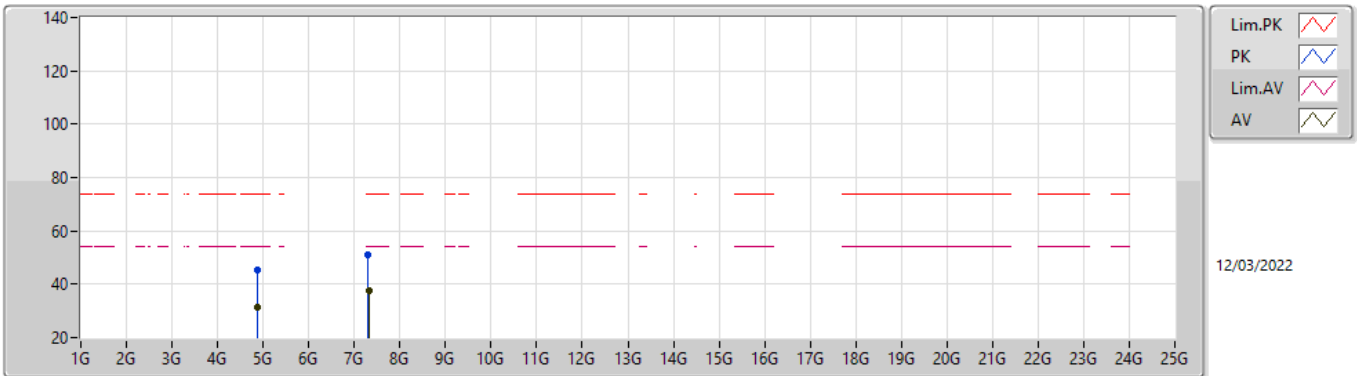


EUT_Z_2TX
Setting 27.5
04-D-K-5

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	4.8746G	45.49	74.00	-28.51	40.98	3	Vertical	110	2.56	-	32.90	4.84	33.23	
AV	4.87332G	31.78	54.00	-22.22	27.28	3	Vertical	110	2.56	-	32.89	4.84	33.23	
PK	7.31044G	51.21	74.00	-22.79	41.31	3	Vertical	357	1.80	-	37.50	6.06	33.66	
AV	7.32064G	37.45	54.00	-16.55	27.56	3	Vertical	357	1.80	-	37.50	6.06	33.67	

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

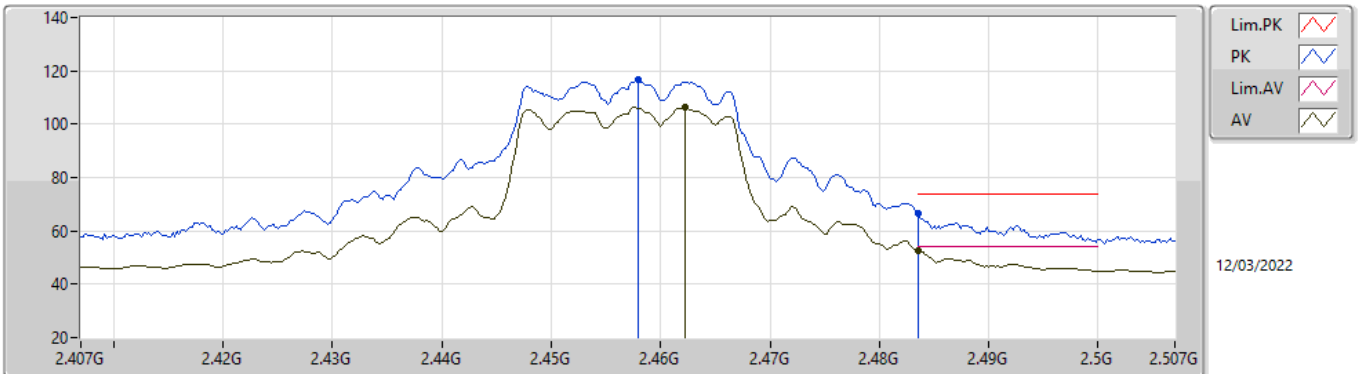


EUT_Z_2TX
Setting 27.5
04-D-K-5

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	4.86524G	45.17	74.00	-28.83	40.71	3	Horizontal	64	3.00	-	32.86	4.83	33.23
AV	4.87352G	31.20	54.00	-22.80	26.70	3	Horizontal	64	3.00	-	32.89	4.84	33.23
PK	7.3098G	51.04	74.00	-22.96	41.15	3	Horizontal	132	1.80	-	37.50	6.05	33.66
AV	7.31724G	37.43	54.00	-16.57	27.54	3	Horizontal	132	1.80	-	37.50	6.06	33.67

802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

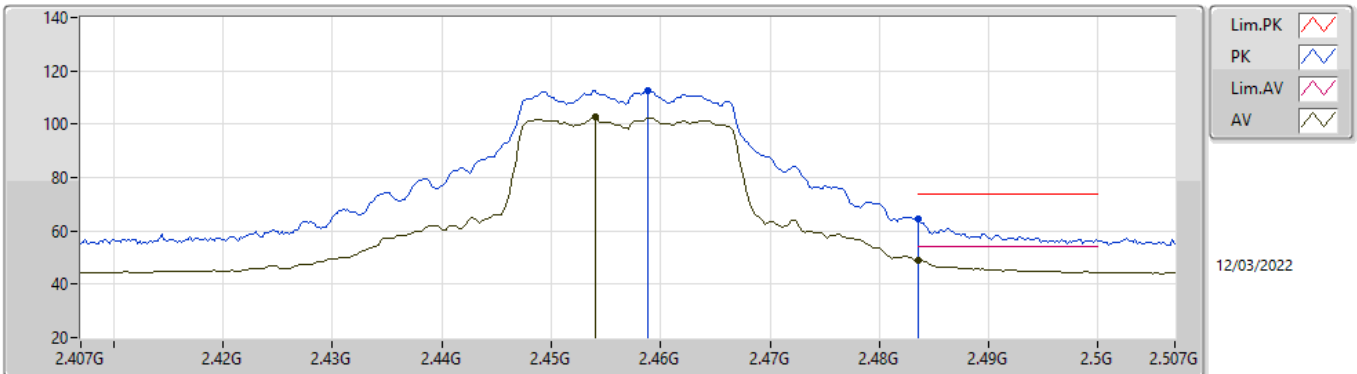


EUT X_2TX
Setting 22.5
04-D-K-5

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	116.52	Inf	-Inf	86.04	3	Vertical	276	1.11	-	27.65	2.83	-	
AV	2.4622G	106.50	Inf	-Inf	76.00	3	Vertical	276	1.11	-	27.67	2.83	-	
PK	2.4835G	66.71	74.00	-7.29	36.07	3	Vertical	276	1.11	-	27.80	2.84	-	
AV	2.4835G	52.62	54.00	-1.38	21.98	3	Vertical	276	1.11	-	27.80	2.84	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

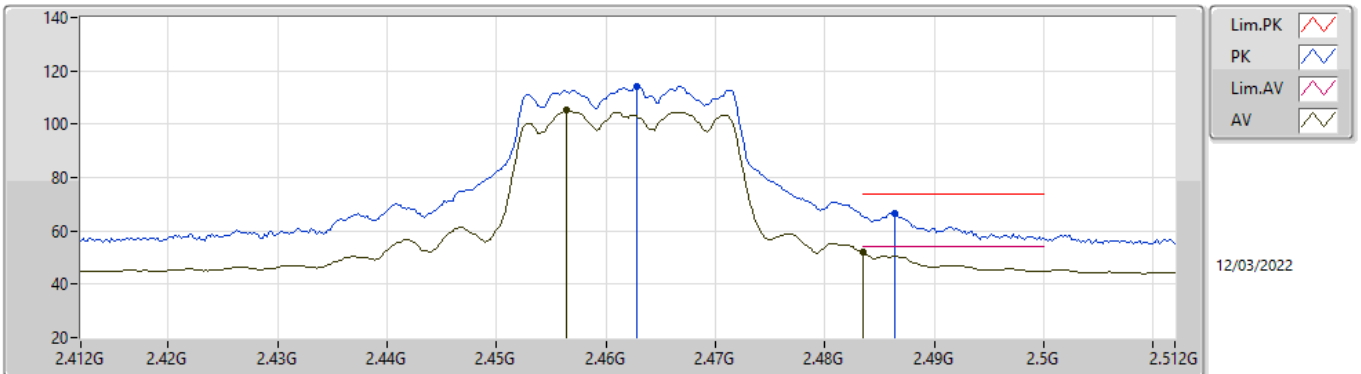


EUT X_2TX
Setting 22.5
04-D-K-5

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	2.4588G	112.69	Inf	-Inf	82.21	3	Horizontal	77	1.35	-	27.65	2.83	-	
AV	2.454G	102.67	Inf	-Inf	72.22	3	Horizontal	77	1.35	-	27.62	2.83	-	
PK	2.4835G	64.54	74.00	-9.46	33.90	3	Horizontal	77	1.35	-	27.80	2.84	-	
AV	2.4836G	49.06	54.00	-4.94	18.42	3	Horizontal	77	1.35	-	27.80	2.84	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

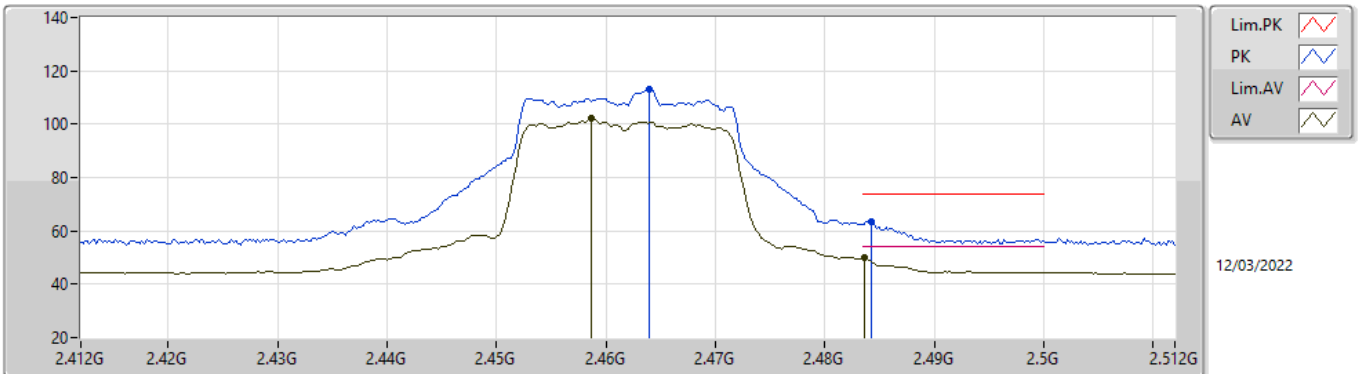


EUT X_2TX
Setting 20.5
04-D-K-5

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	2.4628G	114.23	Inf	-Inf	83.72	3	Vertical	264	1.12	-	27.68	2.83	-	
AV	2.4564G	105.26	Inf	-Inf	74.79	3	Vertical	264	1.12	-	27.64	2.83	-	
PK	2.4864G	66.59	74.00	-7.41	35.93	3	Vertical	264	1.12	-	27.82	2.84	-	
AV	2.4835G	51.87	54.00	-2.13	21.23	3	Vertical	264	1.12	-	27.80	2.84	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

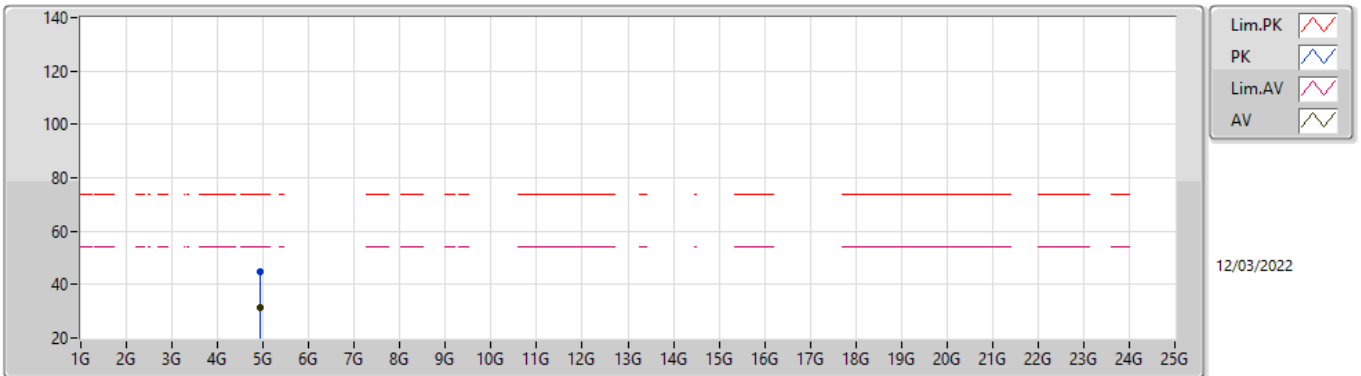


EUT X_2TX
Setting 20.5
04-D-K-5

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	2.464G	113.09	Inf	-Inf	82.58	3	Horizontal	83	1.60	-	27.68	2.83	-	
AV	2.4586G	102.09	Inf	-Inf	71.61	3	Horizontal	83	1.60	-	27.65	2.83	-	
PK	2.4842G	63.62	74.00	-10.38	32.97	3	Horizontal	83	1.60	-	27.81	2.84	-	
AV	2.4836G	49.81	54.00	-4.19	19.17	3	Horizontal	83	1.60	-	27.80	2.84	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

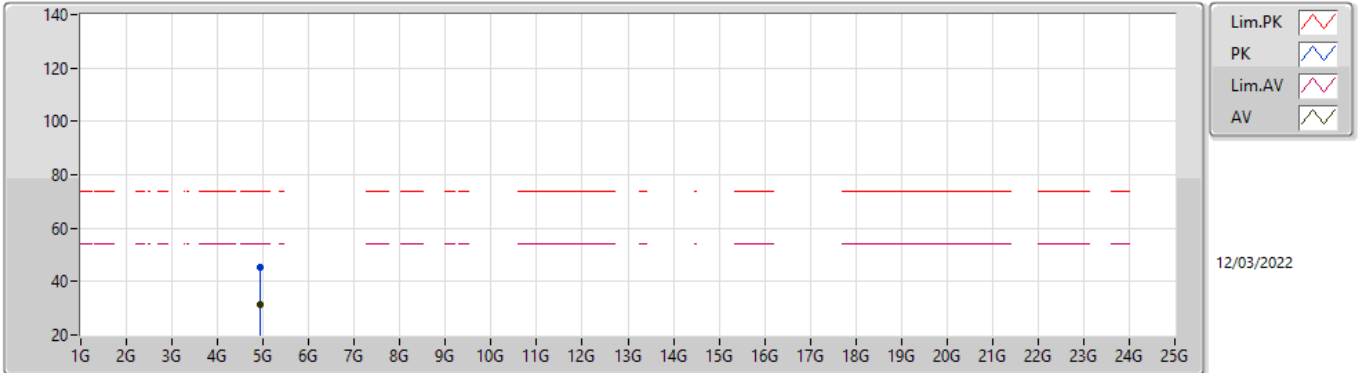


EUT_Z_2TX
Setting 20.5
04-D-K-5

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	4.92688G	45.04	74.00	-28.96	40.33	3	Vertical	257	2.01	-	33.05	4.86	33.20
AV	4.92276G	31.30	54.00	-22.70	26.59	3	Vertical	257	2.01	-	33.05	4.86	33.20

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

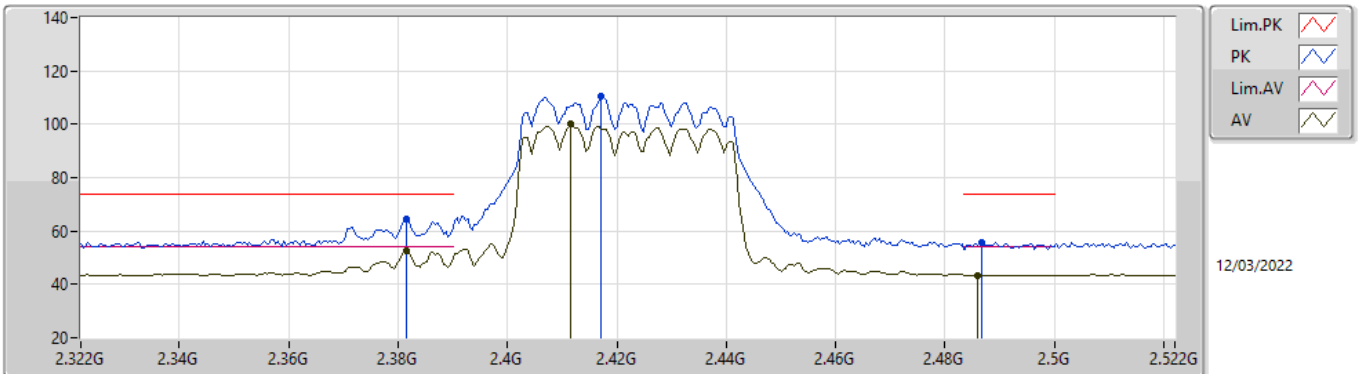


EUT_Z_2TX
Setting 20.5
04-D-K-5

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	4.91974G	45.23	74.00	-28.77	40.53	3	Horizontal	10	2.19	-	33.04	4.86	33.20
AV	4.91964G	31.22	54.00	-22.78	26.52	3	Horizontal	10	2.19	-	33.04	4.86	33.20

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

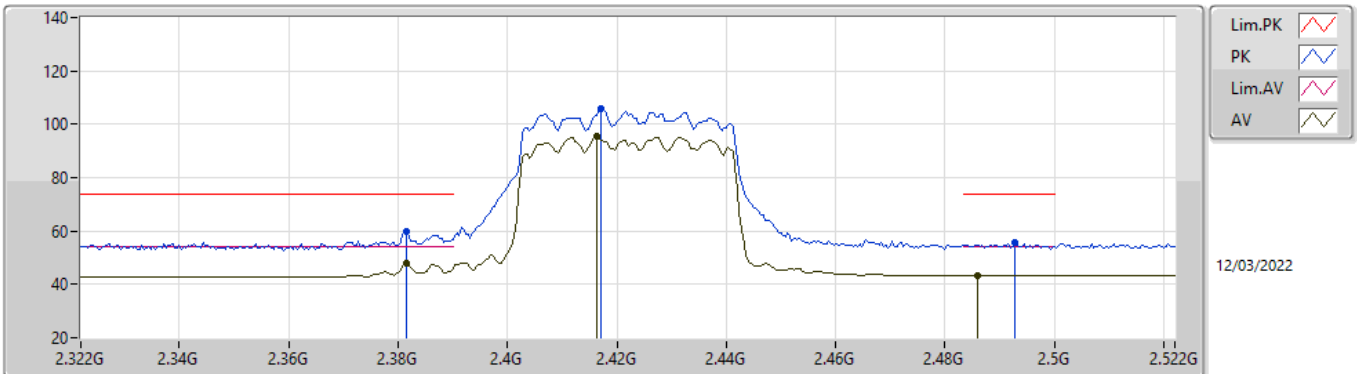


EUT_X_2TX
Setting 18.5
04-D-K-5

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	2.3816G	64.26	74.00	-9.74	34.01	3	Vertical	287	2.86	-	27.46	2.79	-
AV	2.3816G	52.54	54.00	-1.46	22.29	3	Vertical	287	2.86	-	27.46	2.79	-
PK	2.4172G	110.33	Inf	-Inf	79.99	3	Vertical	287	2.86	-	27.53	2.81	-
AV	2.4116G	100.01	Inf	-Inf	69.68	3	Vertical	287	2.86	-	27.52	2.81	-
PK	2.4868G	55.77	74.00	-18.23	25.11	3	Vertical	287	2.86	-	27.82	2.84	-
AV	2.486G	43.52	54.00	-10.48	12.86	3	Vertical	287	2.86	-	27.82	2.84	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

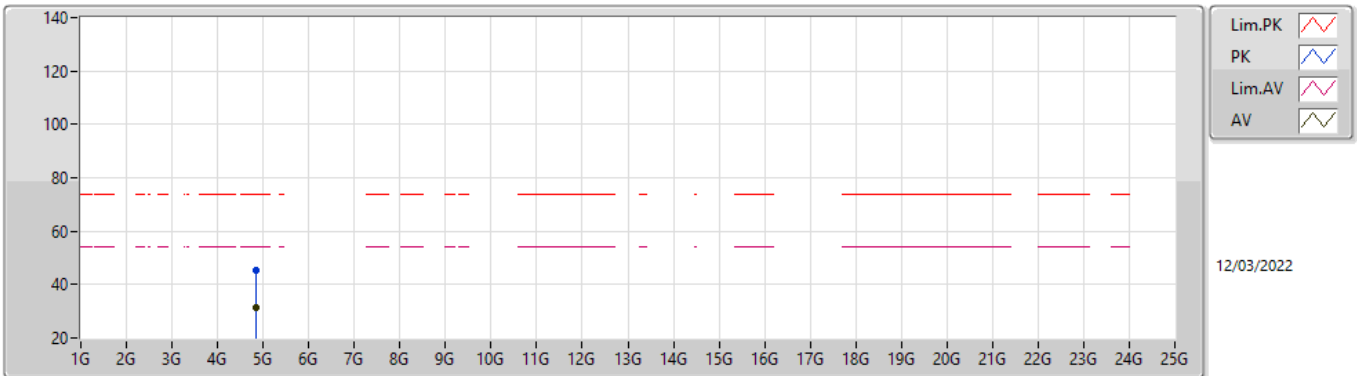


EUT_X_2TX
Setting 18.5
04-D-K-5

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	2.3816G	59.66	74.00	-14.34	29.41	3	Horizontal	61	2.58	-	27.46	2.79	-
AV	2.3816G	47.68	54.00	-6.32	17.43	3	Horizontal	61	2.58	-	27.46	2.79	-
PK	2.4172G	105.93	Inf	-Inf	75.59	3	Horizontal	61	2.58	-	27.53	2.81	-
AV	2.4164G	95.48	Inf	-Inf	65.14	3	Horizontal	61	2.58	-	27.53	2.81	-
PK	2.4928G	55.72	74.00	-18.28	25.01	3	Horizontal	61	2.58	-	27.86	2.85	-
AV	2.486G	43.33	54.00	-10.67	12.67	3	Horizontal	61	2.58	-	27.82	2.84	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

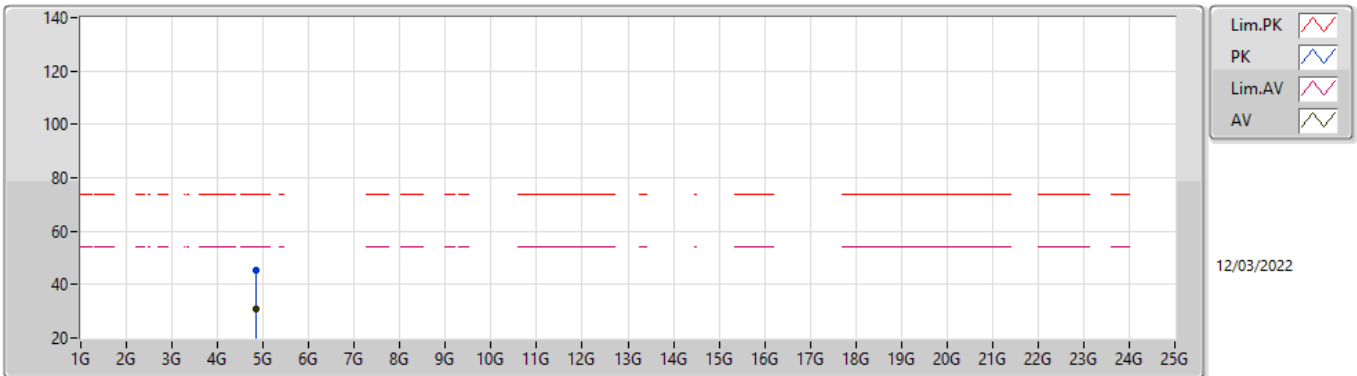


EUT_Z_2TX
Setting 18.5
04-D-K-5

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	4.8439G	45.21	74.00	-28.79	40.85	3	Vertical	354	1.42	-	32.78	4.82	33.24
AV	4.84346G	31.18	54.00	-22.82	26.83	3	Vertical	354	1.42	-	32.77	4.82	33.24

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

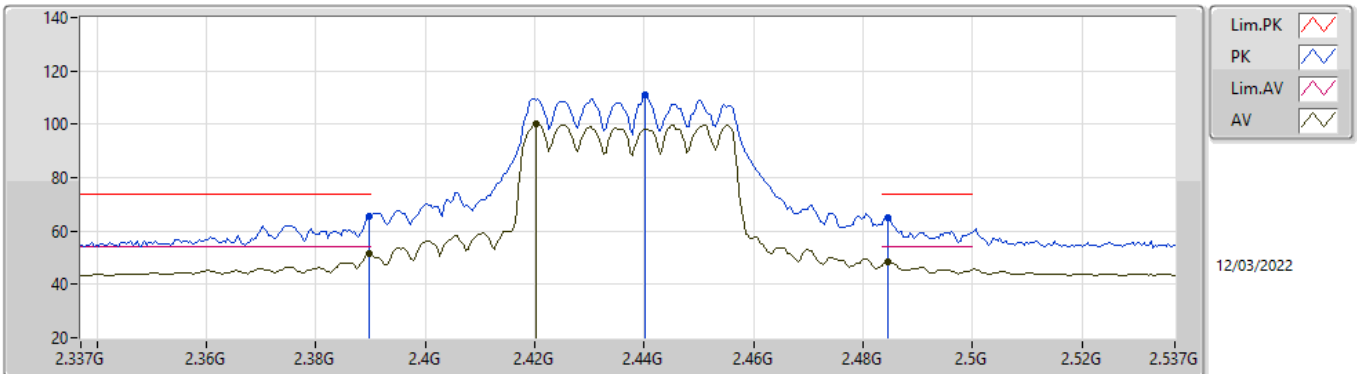


EUT_Z_2TX
Setting 18.5
04-D-K-5

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	4.84182G	45.37	74.00	-28.63	41.02	3	Horizontal	160	2.93	-	32.77	4.82	33.24
AV	4.84032G	31.11	54.00	-22.89	26.77	3	Horizontal	160	2.93	-	32.76	4.82	33.24

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

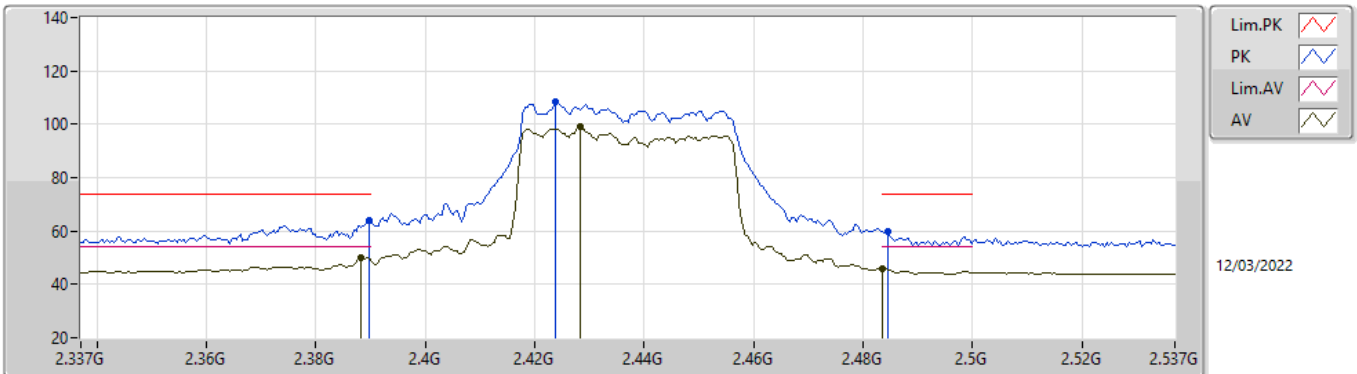


EUT_X_2TX
Setting 20.5
04-D-K-5

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	65.72	74.00	-8.28	35.45	3	Vertical	135	2.32	-	27.48	2.79	-
AV	2.3898G	51.45	54.00	-2.55	21.18	3	Vertical	135	2.32	-	27.48	2.79	-
PK	2.4402G	111.12	Inf	-Inf	80.72	3	Vertical	135	2.32	-	27.58	2.82	-
AV	2.4402G	100.33	Inf	-Inf	69.98	3	Vertical	135	2.32	-	27.54	2.81	-
PK	2.4846G	65.22	74.00	-8.78	34.57	3	Vertical	135	2.32	-	27.81	2.84	-
AV	2.4846G	48.55	54.00	-5.45	17.90	3	Vertical	135	2.32	-	27.81	2.84	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

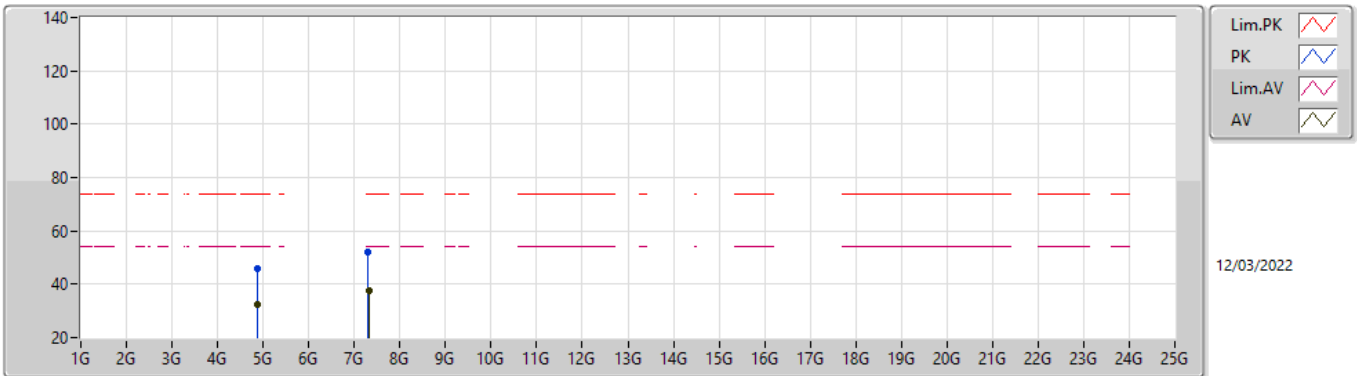


EUT X_2TX
Setting 20.5
04-D-K-5

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	63.95	74.00	-10.05	33.68	3	Horizontal	84	1.20	-	27.48	2.79	-
AV	2.3882G	49.83	54.00	-4.17	19.56	3	Horizontal	84	1.20	-	27.48	2.79	-
PK	2.4238G	108.20	Inf	-Inf	77.84	3	Horizontal	84	1.20	-	27.55	2.81	-
AV	2.4282G	98.94	Inf	-Inf	68.57	3	Horizontal	84	1.20	-	27.56	2.81	-
PK	2.4846G	59.94	74.00	-14.06	29.29	3	Horizontal	84	1.20	-	27.81	2.84	-
AV	2.4835G	45.95	54.00	-8.05	15.31	3	Horizontal	84	1.20	-	27.80	2.84	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

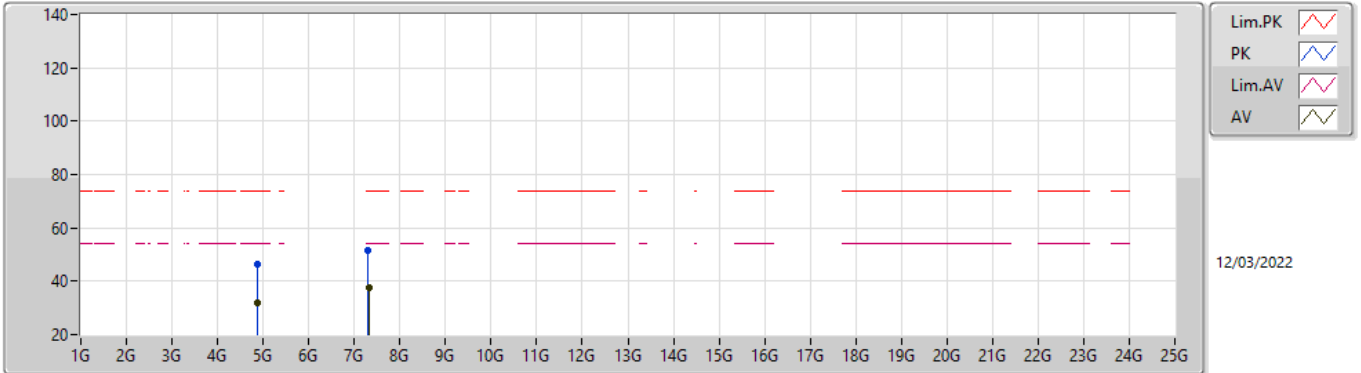


EUT_Z_2TX
Setting 20.5
04-D-K-5

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	4.8776G	45.84	74.00	-28.16	41.31	3	Vertical	73	1.80	-	32.91	4.84	33.22
AV	4.87396G	32.18	54.00	-21.82	27.67	3	Vertical	73	1.80	-	32.90	4.84	33.23
PK	7.30544G	51.82	74.00	-22.18	41.93	3	Vertical	308	1.81	-	37.50	6.05	33.66
AV	7.31924G	37.77	54.00	-16.23	27.88	3	Vertical	308	1.81	-	37.50	6.06	33.67

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

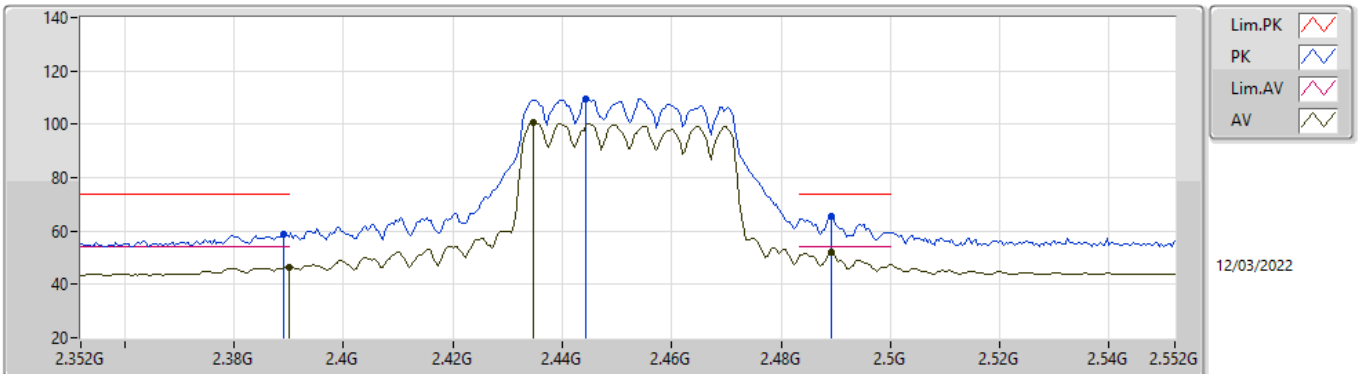


EUT_Z_2TX
Setting 20.5
04-D-K-5

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	4.86832G	46.18	74.00	-27.82	41.71	3	Horizontal	151	1.98	-	32.87	4.83	33.23
AV	4.8738G	32.08	54.00	-21.92	27.57	3	Horizontal	151	1.98	-	32.90	4.84	33.23
PK	7.30916G	51.48	74.00	-22.52	41.59	3	Horizontal	0	1.78	-	37.50	6.05	33.66
AV	7.31936G	37.57	54.00	-16.43	27.68	3	Horizontal	0	1.78	-	37.50	6.06	33.67

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

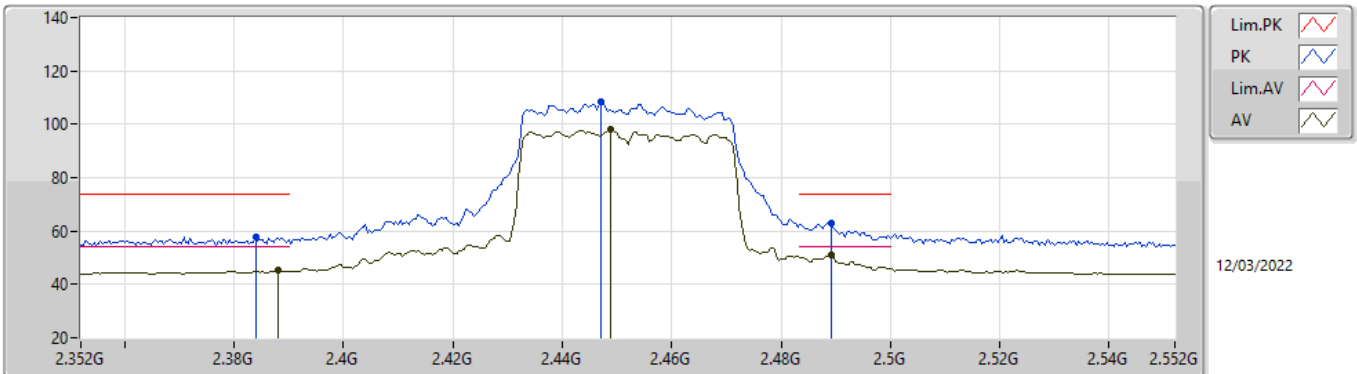


EUT X_2TX
Setting 20.5
04-D-K-5

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	2.3892G	58.66	74.00	-15.34	28.39	3	Vertical	136	1.80	-	27.48	2.79	-
AV	2.39G	46.62	54.00	-7.38	16.35	3	Vertical	136	1.80	-	27.48	2.79	-
PK	2.4444G	109.55	Inf	-Inf	79.14	3	Vertical	136	1.80	-	27.59	2.82	-
AV	2.4348G	100.81	Inf	-Inf	70.42	3	Vertical	136	1.80	-	27.57	2.82	-
PK	2.4892G	65.72	74.00	-8.28	35.04	3	Vertical	136	1.80	-	27.84	2.84	-
AV	2.4892G	52.03	54.00	-1.97	21.35	3	Vertical	136	1.80	-	27.84	2.84	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

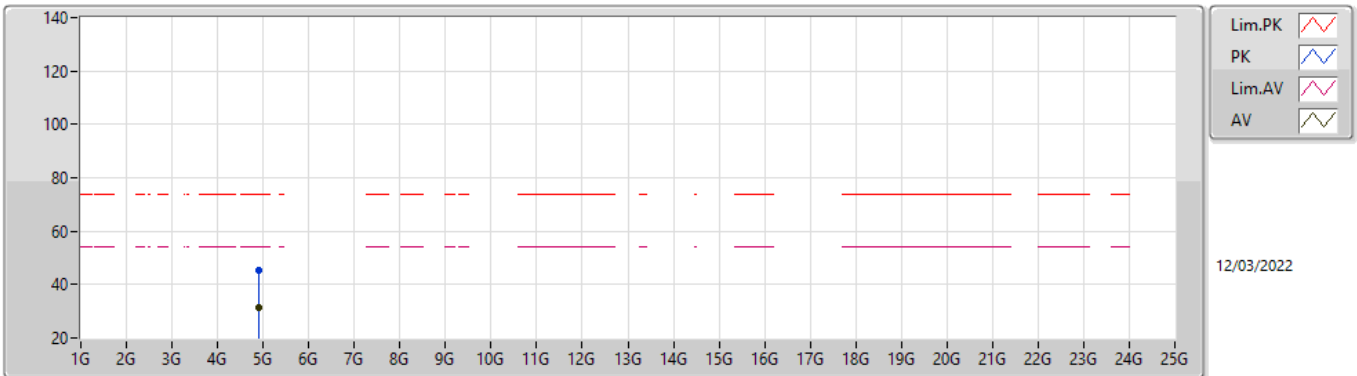


EUT X_2TX
Setting 20.5
04-D-K-5

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	2.384G	57.74	74.00	-16.26	27.48	3	Horizontal	85	1.35	-	27.47	2.79	-
AV	2.388G	45.45	54.00	-8.55	15.18	3	Horizontal	85	1.35	-	27.48	2.79	-
PK	2.4472G	108.41	Inf	-Inf	78.00	3	Horizontal	85	1.35	-	27.59	2.82	-
AV	2.4488G	98.08	Inf	-Inf	67.66	3	Horizontal	85	1.35	-	27.60	2.82	-
PK	2.4892G	63.16	74.00	-10.84	32.48	3	Horizontal	85	1.35	-	27.84	2.84	-
AV	2.4892G	51.20	54.00	-2.80	20.52	3	Horizontal	85	1.35	-	27.84	2.84	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

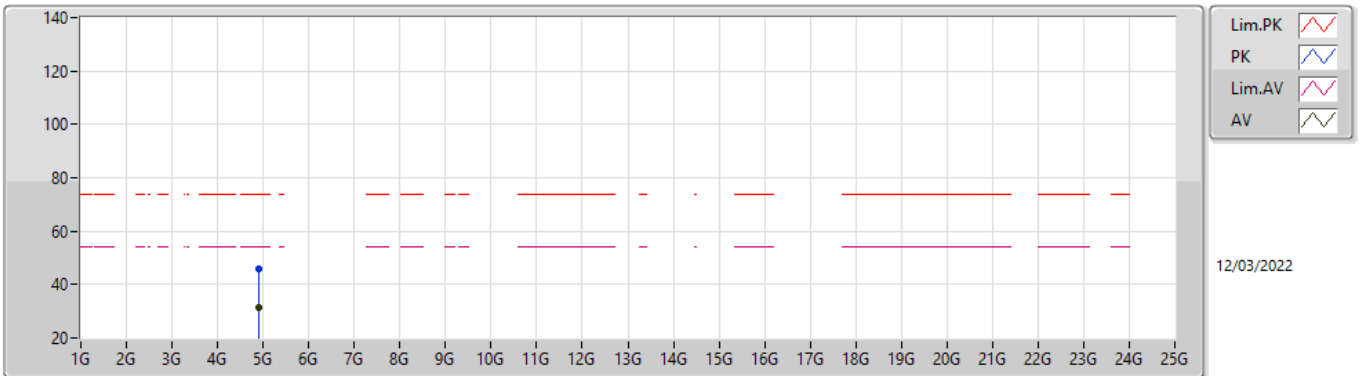


EUT_Z_2TX
Setting 20.5
04-D-K-5

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	4.9048G	45.37	74.00	-28.63	40.72	3	Vertical	250	2.55	-	33.01	4.85	33.21
AV	4.90482G	31.35	54.00	-22.65	26.70	3	Vertical	250	2.55	-	33.01	4.85	33.21

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



EUT_Z_2TX
Setting 20.5
04-D-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	4.90374G	45.69	74.00	-28.31	41.04	3	Horizontal	182	2.50	-	33.01	4.85	33.21
AV	4.90666G	31.33	54.00	-22.67	26.68	3	Horizontal	182	2.50	-	33.01	4.85	33.21