



RADIO TEST REPORT

FCC ID : 2ABLK-GS4227W
Equipment : GigaSpire BLAST
Brand Name : Calix
Model Name : u6xw GS4227W
Applicant : Calix Inc.
1035 N. McDowell Blvd. Petaluma, CA94954 U.S.A.
Manufacturer : Calix Inc.
1035 N. McDowell Blvd. Petaluma, CA94954 U.S.A.
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 30, 2021, and testing was started from Jun. 30, 2021 and completed on Aug. 11, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	8
1.3 Testing Location Information	8
1.4 Measurement Uncertainty	9
2 Test Configuration of EUT.....	10
2.1 Test Channel Mode	10
2.2 The Worst Case Measurement Configuration.....	11
2.3 EUT Operation during Test	12
2.4 Accessories	13
2.5 Support Equipment.....	13
2.6 Test Setup Diagram	15
3 Transmitter Test Result	19
3.1 AC Power-line Conducted Emissions	19
3.2 DTS Bandwidth	21
3.3 Maximum Conducted Output Power	22
3.4 Power Spectral Density	25
3.5 Emissions in Non-restricted Frequency Bands	27
3.6 Emissions in Restricted Frequency Bands.....	28
4 Test Equipment and Calibration Data	32
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of DTS Bandwidth	
Appendix C. Test Results of Maximum Conducted Output Power	
Appendix D. Test Results of Power Spectral Density	
Appendix E. Test Results of Emissions in Non-restricted Frequency Bands	
Appendix F. Test Results of Emissions in Restricted Frequency Bands	
Appendix G. Test Results of Radiated Emission Co-location	
Appendix H. Test Photos	
Photographs of EUT v01	



History of this test report

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

Page Number : 3 of 34
Issued Date : Aug. 31, 2021
Report Version : 01



Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Vicky Huang



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax (HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax (HEW40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT20-BF	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11n HT40-BF	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	2TX

Note:

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


1.1.2 Antenna Information

Ant.	Port		Brand	Model Name	Type	Connector	Gain (dBi)	Remark
	2.4GHz	5GHz						
1	-	3	Hong Bo	290-50251	PCB	I-Pex	Note1	5G U-NII 1, U-NII 2A,U-NII 2C, U-NII 3
2	-	4	Hong Bo	290-50251	PCB	I-Pex		5G U-NII 1, U-NII 2A,U-NII 2C, U-NII 3
3	1	1	Hong Bo	290-50249	PCB	I-Pex		2.4G+5G U-NII 1, U-NII 2A,U-NII 2C, U-NII 3
4	2	2	Hong Bo	290-50250	PCB	I-Pex		2.4G+5G U-NII 1, U-NII 2A,U-NII 2C, U-NII 3

Note1:

Ant.	Gain (dBi)				
	2.4GHz	5GHz U-NII 1	5GHz U-NII 2A	5GHz U-NII 2C	5GHz U-NII 3
1	-	3.91	3.91	3.83	3.90
2	-	3.94	3.92	3.92	3.96
3	3.97	3.97	3.92	3.92	3.96
4	3.94	3.97	3.97	3.92	3.82
Directional Gain (dBi) (4T1S)	-	4.42	5.77	6.93	6.39
Directional Gain (dBi) (4T2S)	-	3.97	4.52	5.19	5.46
Directional Gain (dBi) (SDM 4T4S)	-	1.97	1.93	3.09	3.27

Note2: The above information was declared by manufacturer.

The EUT enables 2.4GHz and 5G U-NII 1, 3.

WLAN 2.4GHz: Maximum Directional Gain following KDB662911 D01

WLAN 5GHz: Maximum Directional Gain following KDB662911 D03

For WLAN 2.4GHz function, 802.11 b/g/n/VHT/ax mode (2TX/2RX):

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

Port 1 and Port 2 could transmit/receive simultaneously.

For WLAN 5GHz UNII 1~3 function, 802.11a/n/ac/ax mode (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.651	1.86	692.5u	3k
802.11g	0.948	0.23	1.98m	1k
802.11ax HEW20-BF	0.921	0.36	1.835m	1k
802.11ax HEW40-BF	0.91	0.41	1.783m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or UPS(only during power outages)			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	For 802.11n/VHT/ax in 2.4GHz and 802.11n/ac/ax in 5GHz			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QSPR V5.0-00196 、 DOS [ver 6.1.7601]			

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	TH02-CB	Paul Chen	23.7~25.5 / 64~67	Jul. 14, 2021~ Jul. 24, 2021
Radiated (below 1GHz)	03CH03-CB	Bruce Yang	24.5-25.6 / 55-58	Jul. 01, 2021~ Aug. 10, 2021
Radiated (above 1GHz)	03CH01-CB	Ken Yeh	23.9-26.1 / 55-58	Jun. 30, 2021~ Aug. 10, 2021
	03CH03-CB	Ken Yeh	23.5-24.6 / 55-59	Jun. 30, 2021~ Aug. 10, 2021
Radiated (Co-location)	03CH05-CB	Ken Yeh	24.1-25.3 / 55-59	Aug. 11, 2021
AC Conduction	CO01-CB	Peter Wu	22~23 / 60~61	Jul. 27, 2021

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)	2.0 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
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	24
2417MHz	24.5
2437MHz	26.5
2457MHz	23.5
2462MHz	23
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	21
2417MHz	23
2437MHz	26
2457MHz	22.5
2462MHz	21.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	24
2417MHz	25
2437MHz	29
2457MHz	25
2462MHz	23
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	22
2437MHz	24
2452MHz	22

Note:

- ♦ HEW20/HEW40 covers HT20/HT40/VHT20/VHT40, due to similar modulation. The power setting for HT20/HT40/VHT20/VHT40 are the same or lower than HEW20/HEW40
- ♦ There are two modes of EUT for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode, after evaluating, only beamforming mode has been selected to test and record in this test report.

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 + UPS Standby + Fiber Module-10G Ethernet transceiver + powered from adapter
2	EUT + UPS Standby + Fiber Module-1G Ethernet transceiver + powered from adapter
3	EUT + UPS Standby + Fiber Module-XGS PON + powered from adapter
4	EUT + UPS Standby + Fiber Module-AE module 20Km RT + powered from adapter
5	EUT + UPS Standby + Fiber Module-AE module 60Km RT + powered from adapter
For operating mode 5 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	CTX
1	EUT + UPS Standby + WLAN 2.4GHz + powered from adapter
2	EUT + UPS Standby + WLAN 5GHz + powered from adapter
Mode 2 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT + WLAN 5GHz + powered from UPS
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA150310 for Co-location RF Exposure Evaluation.	

Note1: The EUT can only be used at Z axis position.

Note2: The Fiber Module is for measurement only, would not be marketed.

Fiber Module	Brand	Model
10G Ethernet transceiver	CTST	THCPRJ-0088-0AAE
1G Ethernet transceiver	CTST	THCPRJ-00MM-0ADI
XGS PON	N/A	N/A
AE module 20Km RT	EZcom	ETB43334-7TB4-CA
AE module 60Km RT	EZcom	ETB43334-7T44-CA

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

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

The program was executed as follows:

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

For Normal Link:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	Ktec	KSA-42D-120300VU	Input:100-240V~50/60Hz, 1.2A Output:12V, 3.0A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	10G PC	DELL	T3400	N/A
B	Phone	SAMPO	HT-B 907WL	N/A
C	Phone	SAMPO	HT-B 907WL	N/A
D	2.4G NB	DELL	E6430	N/A
E	5G NB	DELL	E6430	N/A
F	LAN NB	DELL	E6430	N/A
G	Flash disk3.0	Transcend	JetFlash-700	N/A
H	UPS	CyberPower	DTC36U12V3-G(UL62368)	N/A
I	AE module 60Km RT	Ezcom	ETB43334-7T44-CA	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	UPS	CyberPower	DTC36U12V3-G(UL62368)	N/A

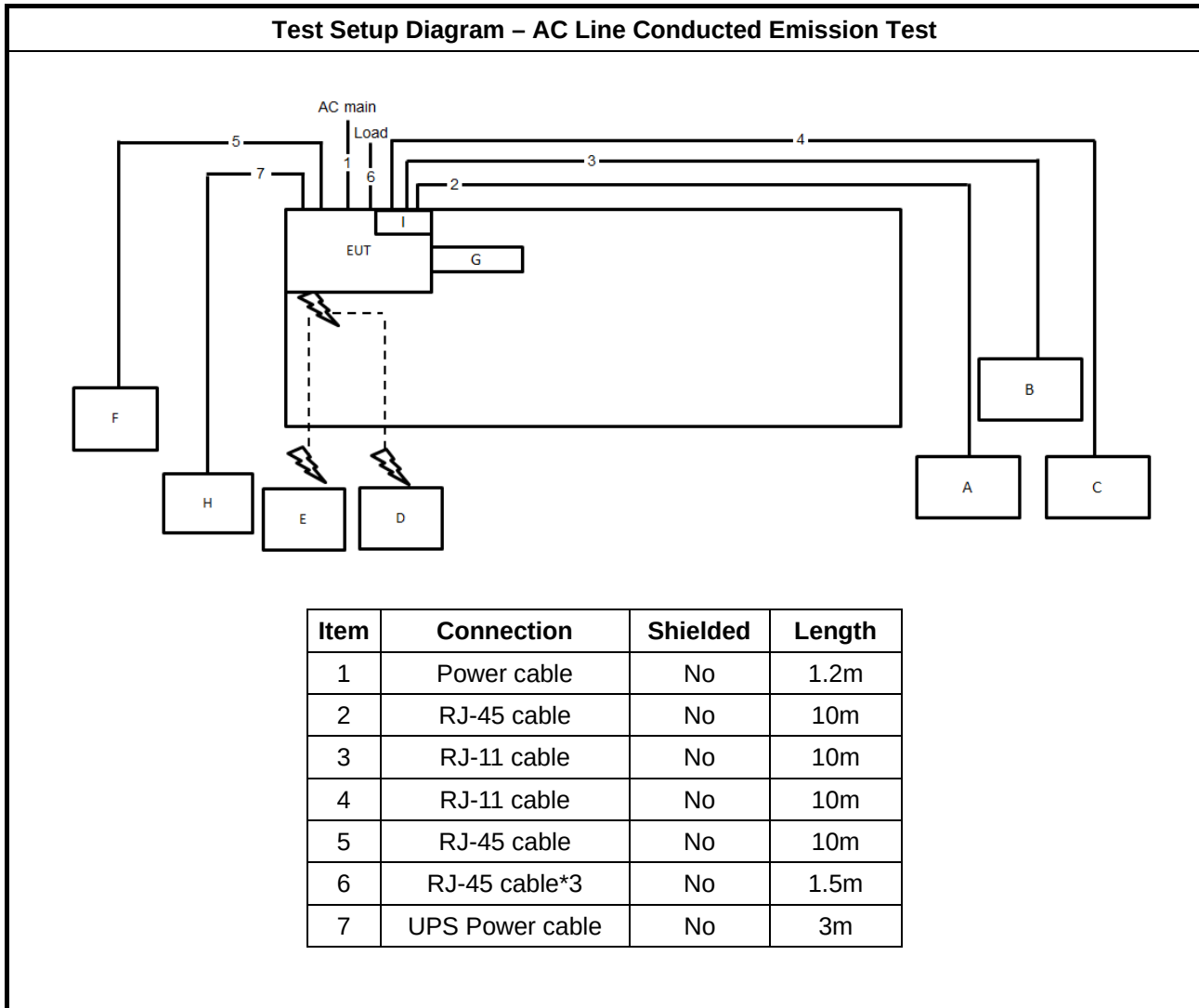
For Radiated (above 1GHz) and RF Conducted:
For non-beamforming mode

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

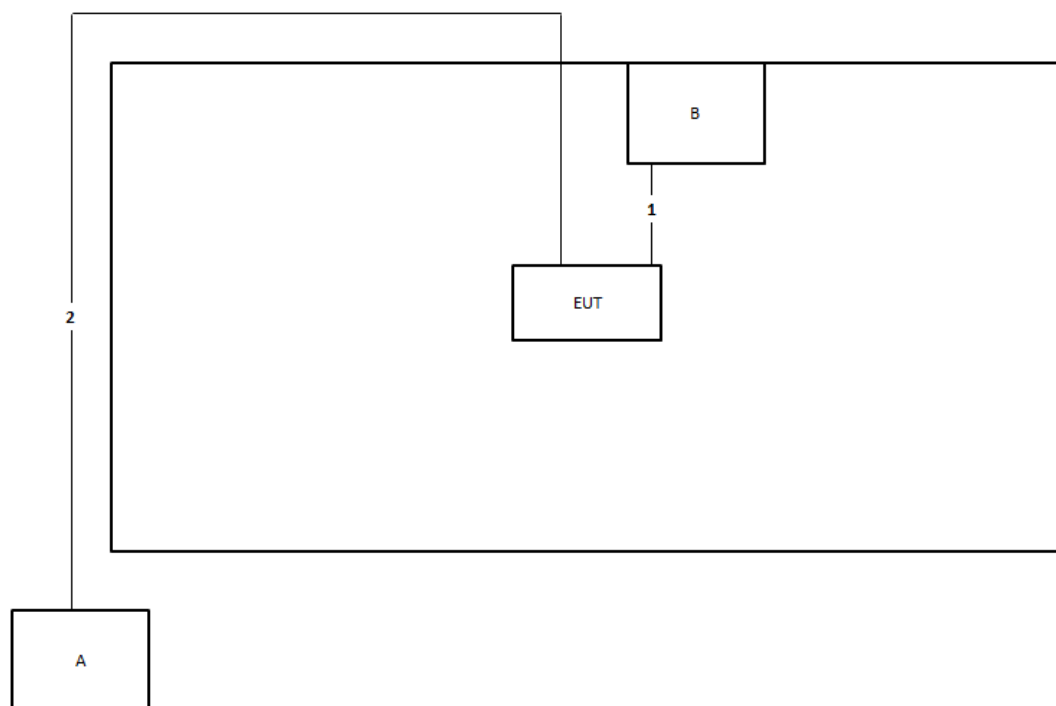
**For beamforming mode**

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	WLAN AP	cyberTAN	Calix Emerald 2	N/A

2.6 Test Setup Diagram



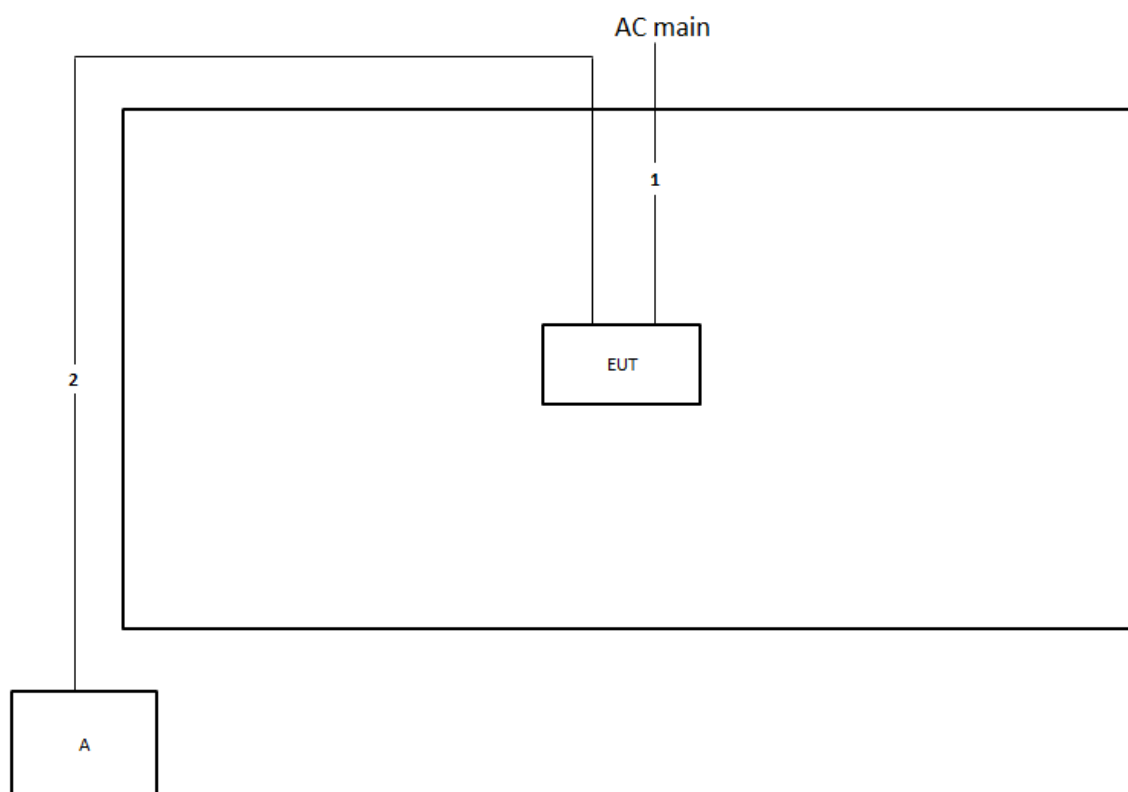
Test Setup Diagram - Radiated Test < 1GHz



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

Test Setup Diagram - Radiated Test > 1GHz

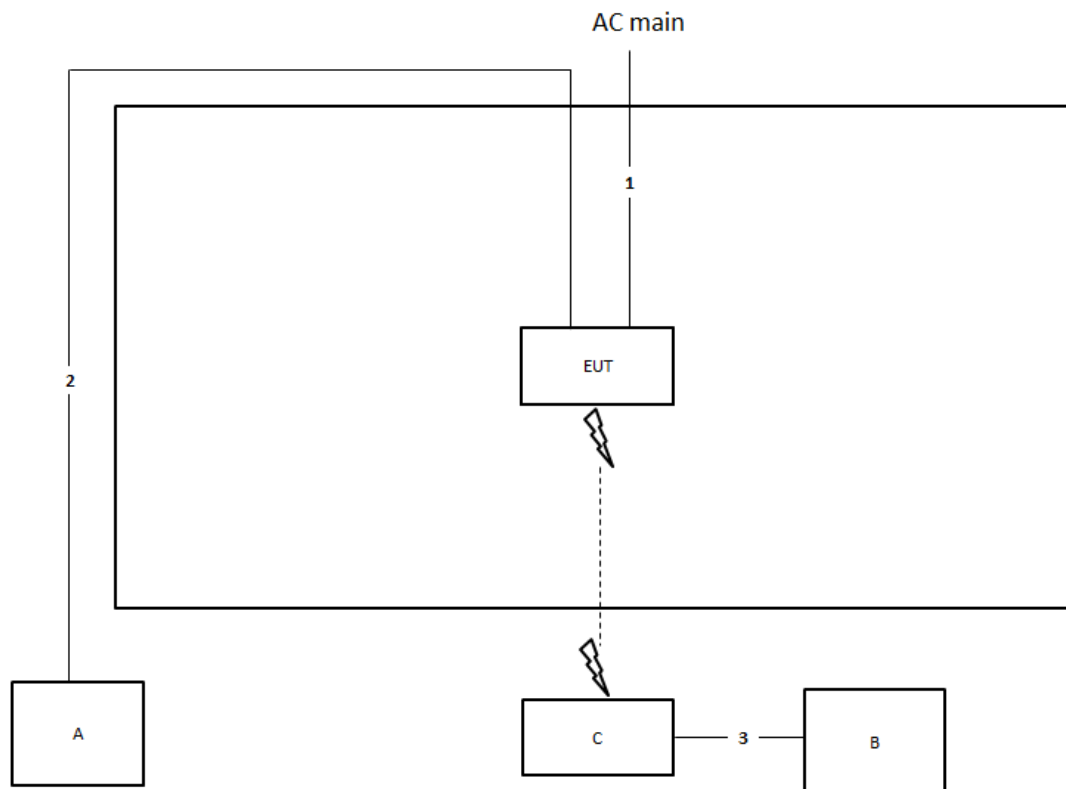
For non-beamforming mode



Item	Connection	Shielded	Length
1	Power cable	No	1.2m
2	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz

For beamforming mode



Item	Connection	Shielded	Length
1	Power cable	No	1.2m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m



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.

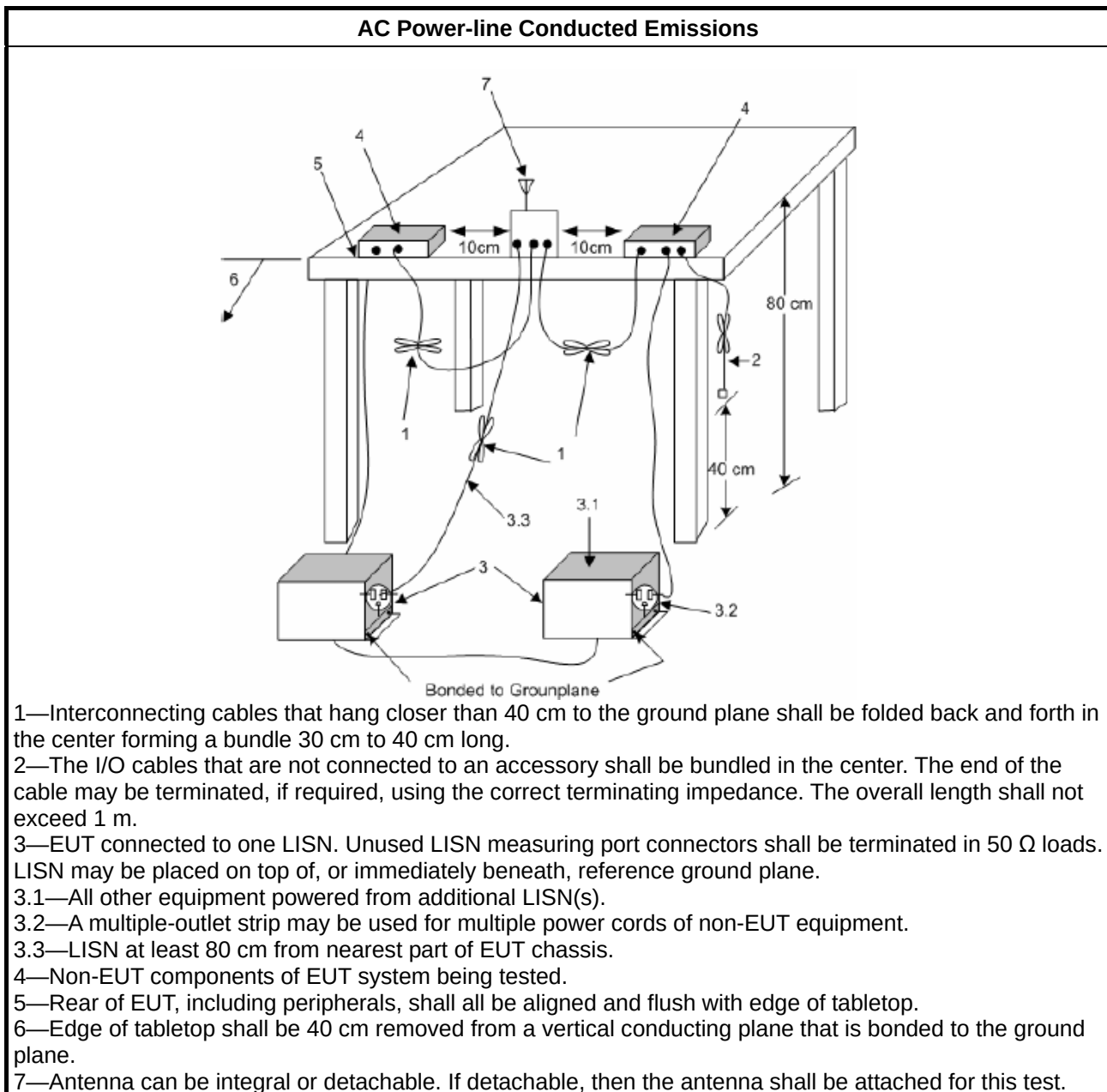
3.1.2 Measuring Instruments

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.

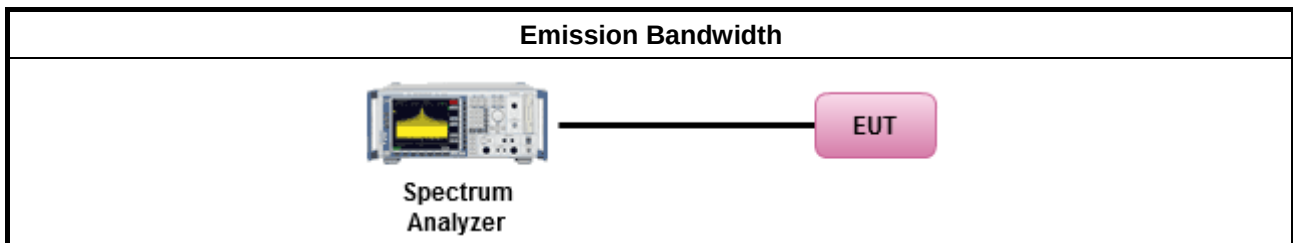
3.2.2 Measuring Instruments

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.		

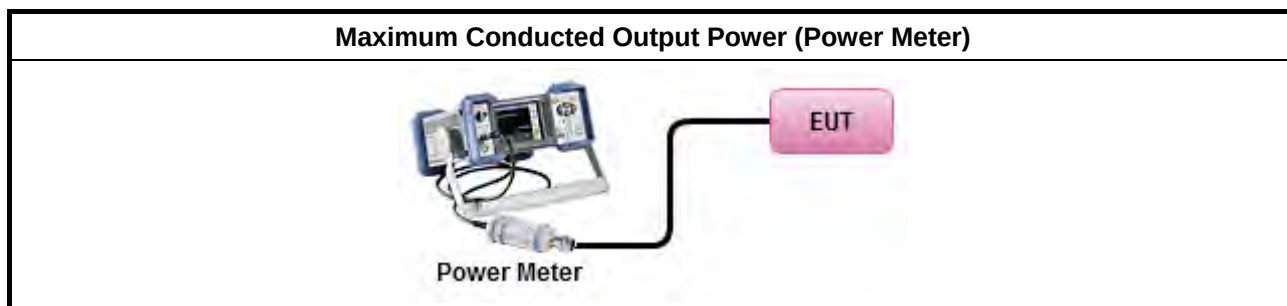
3.3.2 Measuring Instruments

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

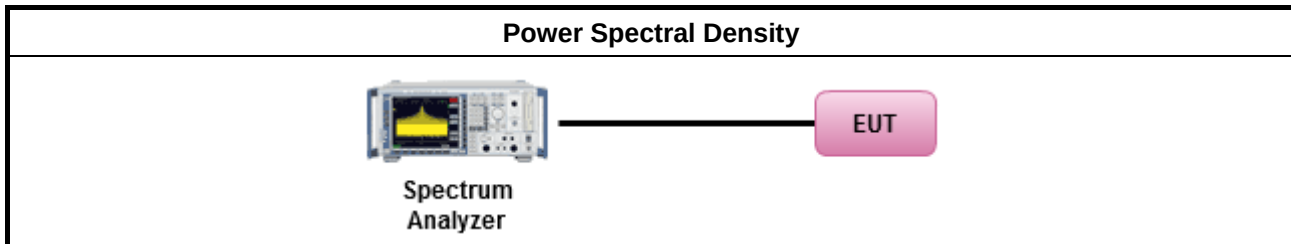
3.4.2 Measuring Instruments

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.	

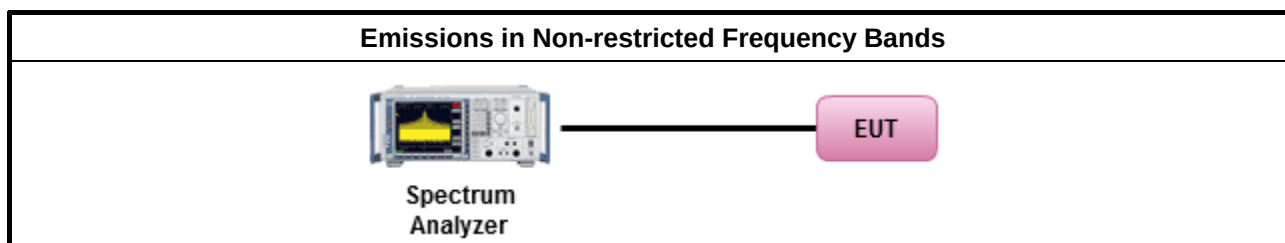
3.5.2 Measuring Instruments

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

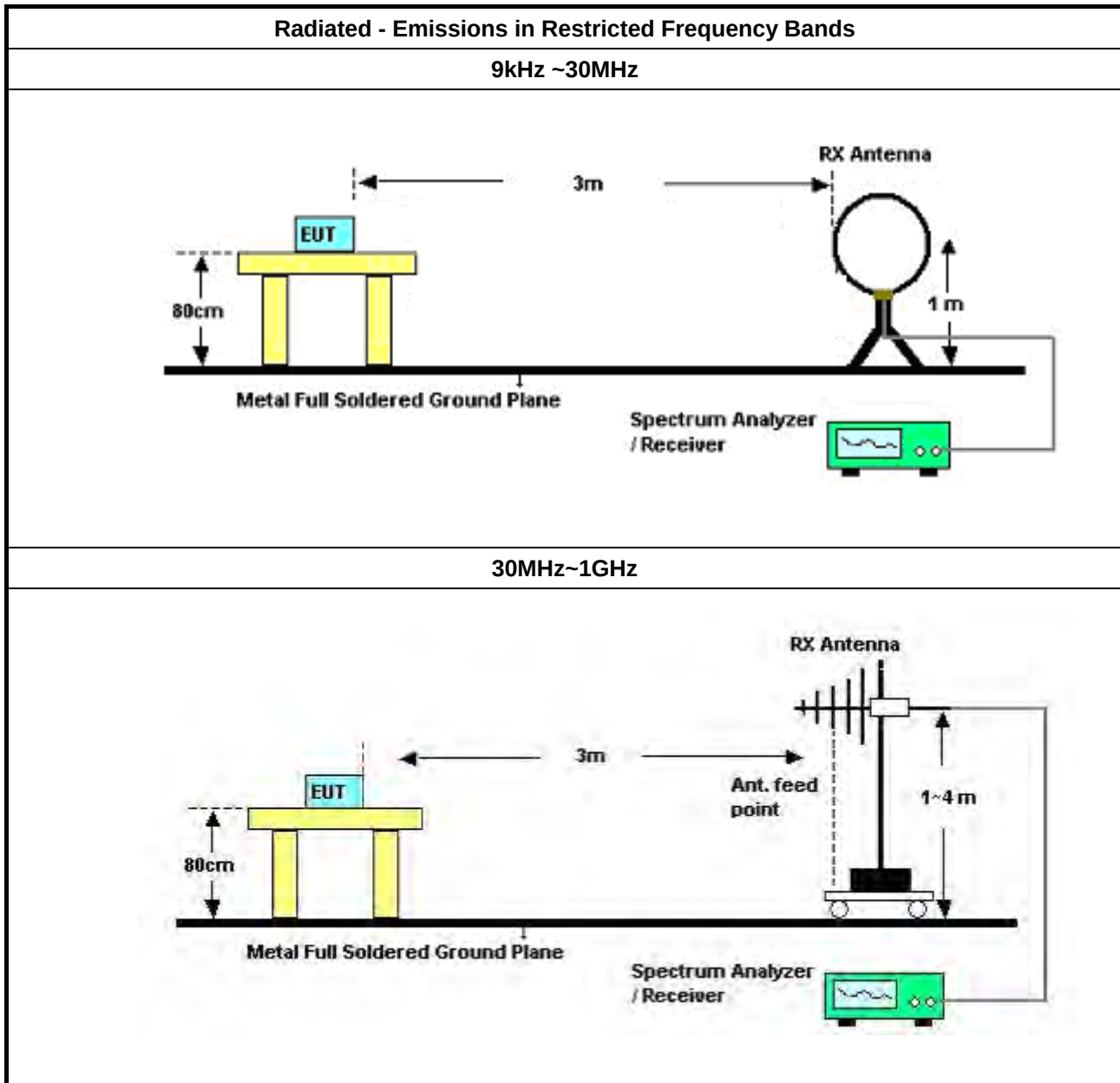
Refer a test equipment and calibration data table in this test report.

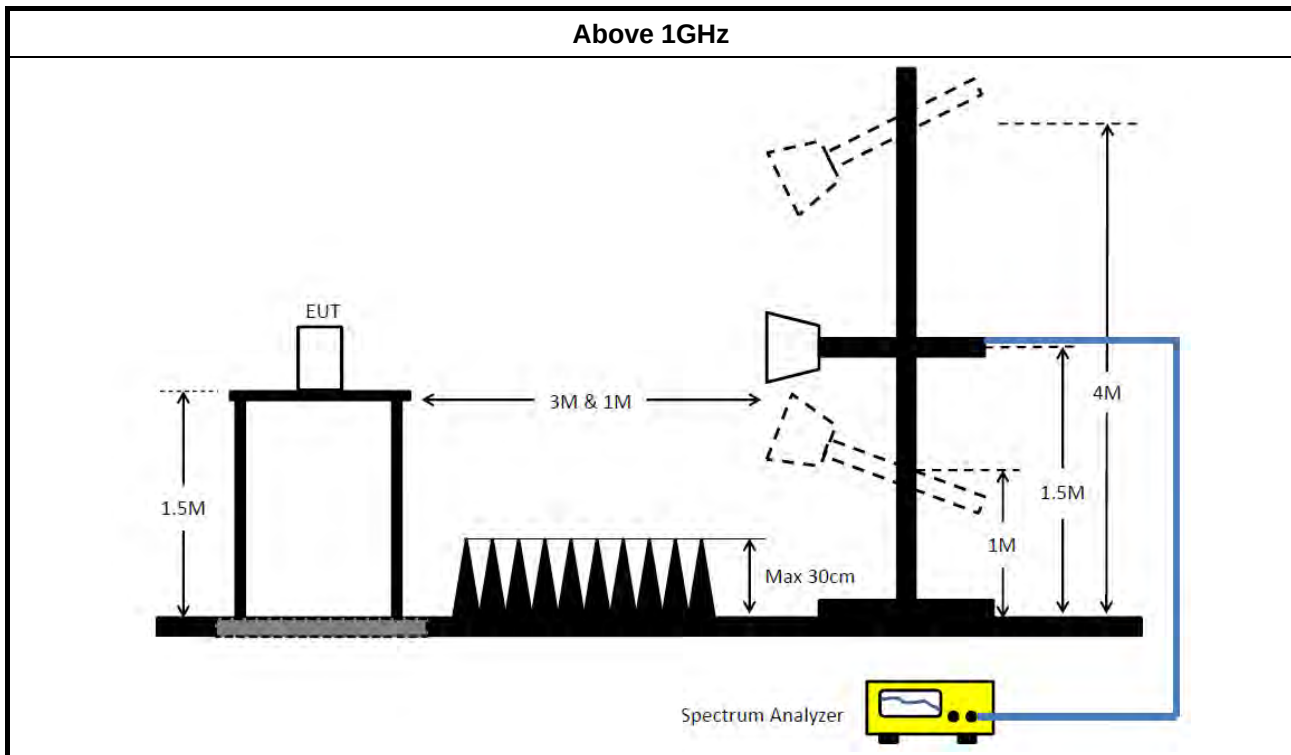


3.6.3 Test Procedures

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	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	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)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 27, 2021	Jan. 26, 2022	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 06, 2021	May 05, 2022	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 22, 2021	Feb. 21, 2022	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 26, 2021	Jan. 25, 2022	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH03-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 11, 2021	Jan. 10, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 03, 2020	Jul. 02, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH03-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun.15, 2021	Jun. 14, 2022	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 04, 2021	Jun. 03, 2022	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 07, 2021	May 06, 2022	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2020	Nov. 05, 2021	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 20, 2021	May 19, 2022	Radiation (03CH01-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun.15, 2021	Jun. 14, 2022	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 03, 2021	May 02, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 08, 2020	Nov. 07, 2021	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Sep. 05, 2020	Sep. 04, 2021	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH05-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun.15, 2021	Jun. 14, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 27, 2020	Jul. 26, 2021	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

NCR means Non-Calibration required.



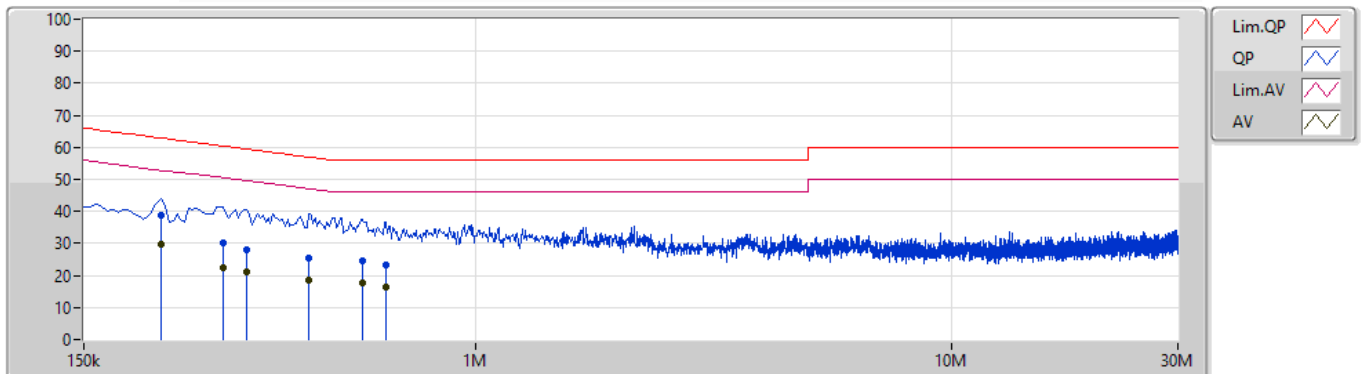
Conducted Emissions at Powerline

Appendix A

Summary

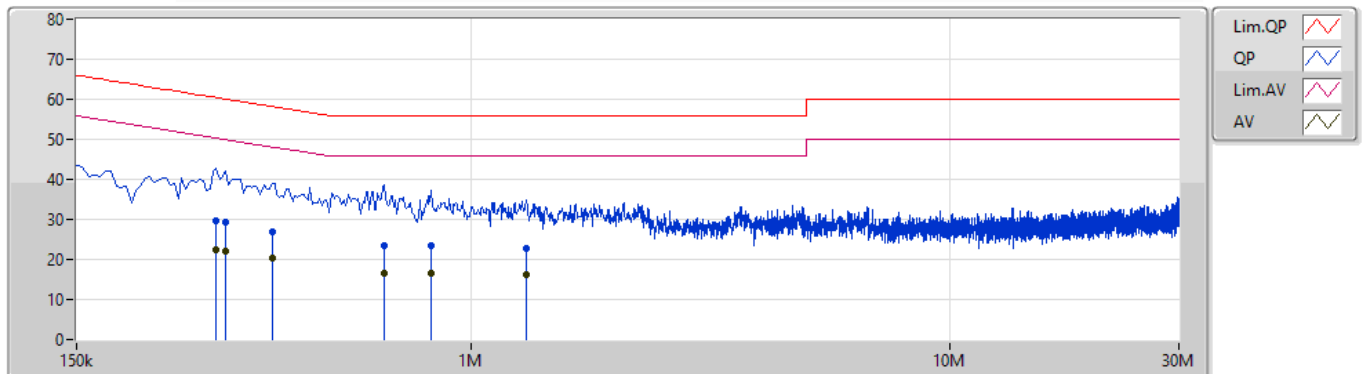
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 5	Pass	AV	217.5k	29.79	52.92	-23.13	Line

27/07/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	217.5k	38.64	62.92	-24.28	9.89	Line	-	28.75	0.04	0.04	9.81			
AV	217.5k	29.79	52.92	-23.13	9.89	Line	"Worst"	19.90	0.04	0.04	9.81			
QP	294k	30.08	60.42	-30.34	9.90	Line	-	20.18	0.04	0.04	9.82			
AV	294k	22.59	50.42	-27.83	9.90	Line	-	12.69	0.04	0.04	9.82			
QP	330k	28.08	59.44	-31.36	9.90	Line	-	18.18	0.04	0.04	9.82			
AV	330k	21.19	49.44	-28.25	9.90	Line	-	11.29	0.04	0.04	9.82			
QP	447k	25.45	56.94	-31.49	9.90	Line	-	15.55	0.04	0.04	9.82			
AV	447k	18.64	46.94	-28.30	9.90	Line	-	8.74	0.04	0.04	9.82			
QP	577.5k	24.76	56.00	-31.24	9.91	Line	-	14.85	0.05	0.04	9.82			
AV	577.5k	17.86	46.00	-28.14	9.91	Line	-	7.95	0.05	0.04	9.82			
QP	649.5k	23.37	56.00	-32.63	9.92	Line	-	13.45	0.05	0.04	9.83			
AV	649.5k	16.52	46.00	-29.48	9.92	Line	-	6.60	0.05	0.04	9.83			

27/07/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	294k	29.50	60.42	-30.92	9.89	Neutral	-	19.61	0.03	0.04	9.82			
AV	294k	22.52	50.42	-27.90	9.89	Neutral	-	12.63	0.03	0.04	9.82			
QP	307.5k	29.16	60.03	-30.87	9.89	Neutral	-	19.27	0.03	0.04	9.82			
AV	307.5k	22.17	50.03	-27.86	9.89	Neutral	"Worst"	12.28	0.03	0.04	9.82			
QP	384k	27.00	58.20	-31.20	9.89	Neutral	-	17.11	0.03	0.04	9.82			
AV	384k	20.24	48.20	-27.96	9.89	Neutral	-	10.35	0.03	0.04	9.82			
QP	658.5k	23.35	56.00	-32.65	9.91	Neutral	-	13.44	0.04	0.04	9.83			
AV	658.5k	16.43	46.00	-29.57	9.91	Neutral	-	6.52	0.04	0.04	9.83			
QP	825k	23.38	56.00	-32.62	9.92	Neutral	-	13.46	0.05	0.04	9.83			
AV	825k	16.48	46.00	-29.52	9.92	Neutral	-	6.56	0.05	0.04	9.83			
QP	1.307M	22.77	56.00	-33.23	9.94	Neutral	-	12.83	0.06	0.05	9.83			
AV	1.307M	16.15	46.00	-29.85	9.94	Neutral	-	6.21	0.06	0.05	9.83			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.075M	13.393M	13M4G1D	7.05M	12.919M
802.11g_Nss1,(6Mbps)_2TX	16.3M	16.842M	16M8D1D	15.975M	16.392M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.225M	19.04M	19M0D1D	15.35M	18.916M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	35.3M	37.931M	37M9D1D	31.25M	37.831M

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

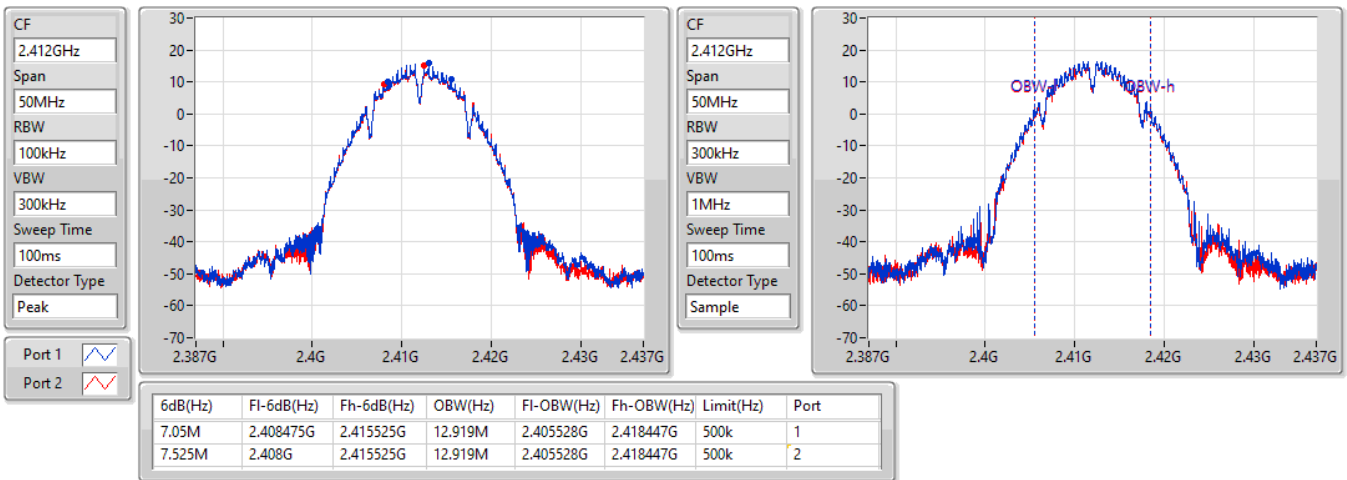
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.05M	12.919M	7.525M	12.919M
2437MHz	Pass	500k	8.075M	13.393M	7.525M	13.343M
2462MHz	Pass	500k	7.55M	12.969M	8.025M	12.919M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.3M	16.417M	16.275M	16.442M
2437MHz	Pass	500k	16M	16.842M	15.975M	16.842M
2462MHz	Pass	500k	16.3M	16.417M	16.275M	16.392M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.05M	18.941M	18.225M	18.941M
2437MHz	Pass	500k	16.775M	19.04M	17.975M	19.04M
2462MHz	Pass	500k	15.8M	18.916M	15.35M	18.916M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.3M	37.881M	35M	37.881M
2437MHz	Pass	500k	31.25M	37.931M	31.25M	37.881M
2452MHz	Pass	500k	35M	37.931M	32.55M	37.831M

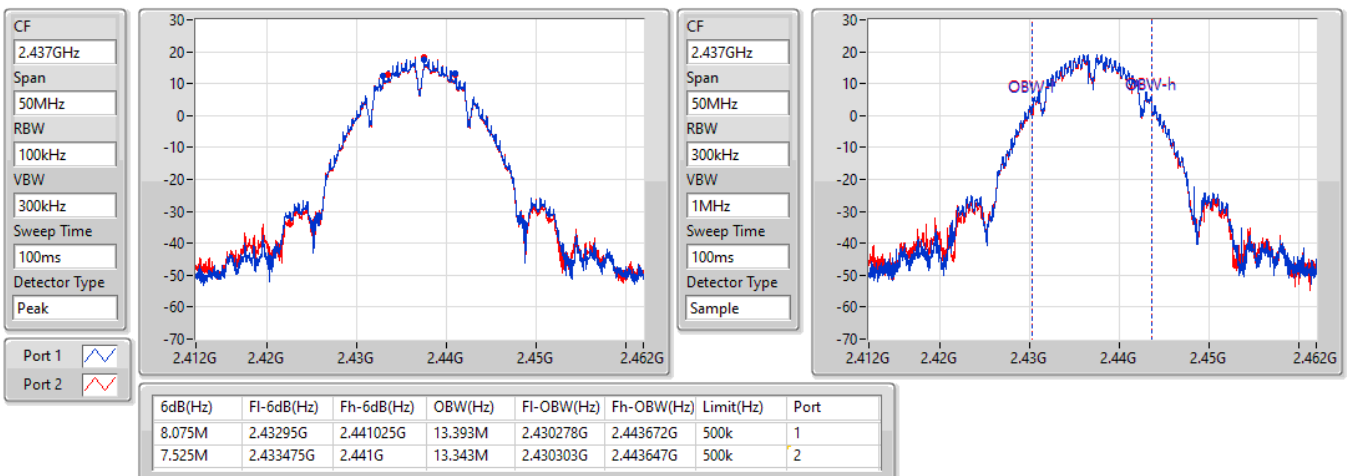
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

07/07/2021


802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

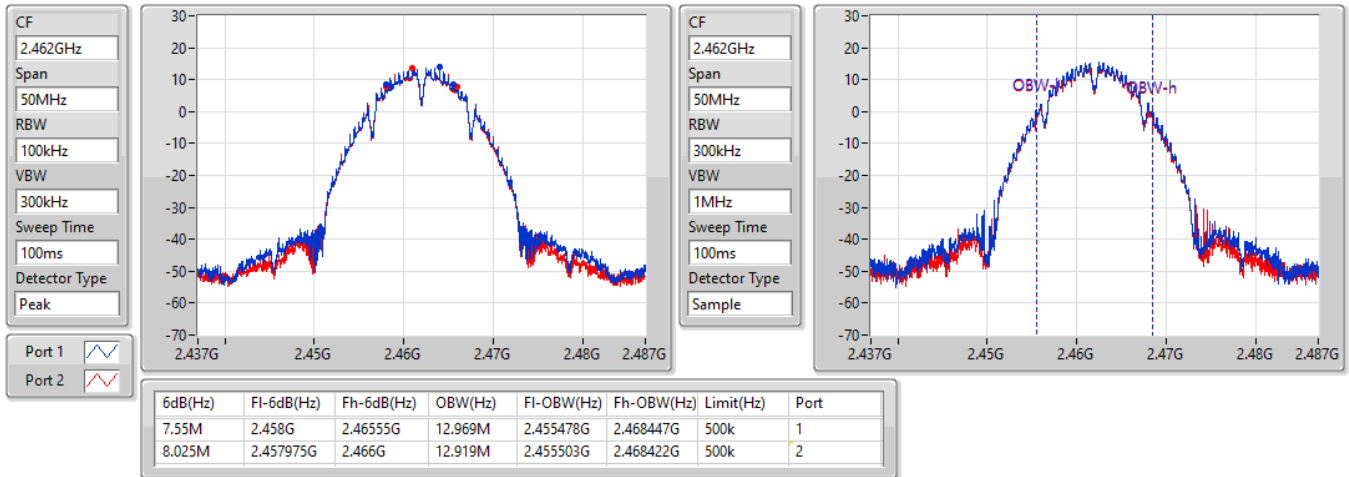
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802.11b_Nss1,(1Mbps)_2TX

EBW
2462MHz

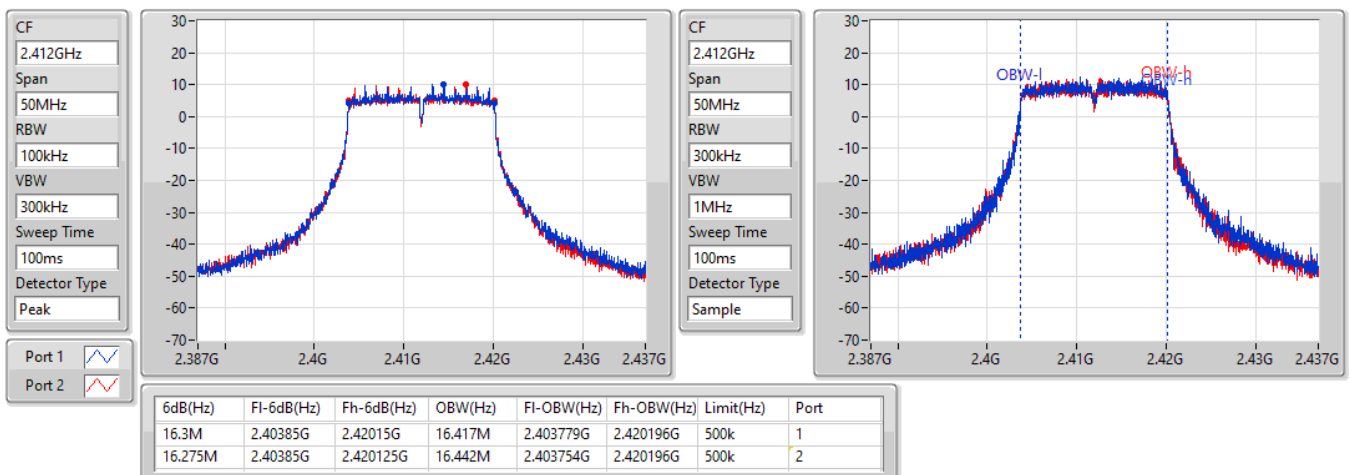
07/07/2021



802.11g_Nss1,(6Mbps)_2TX

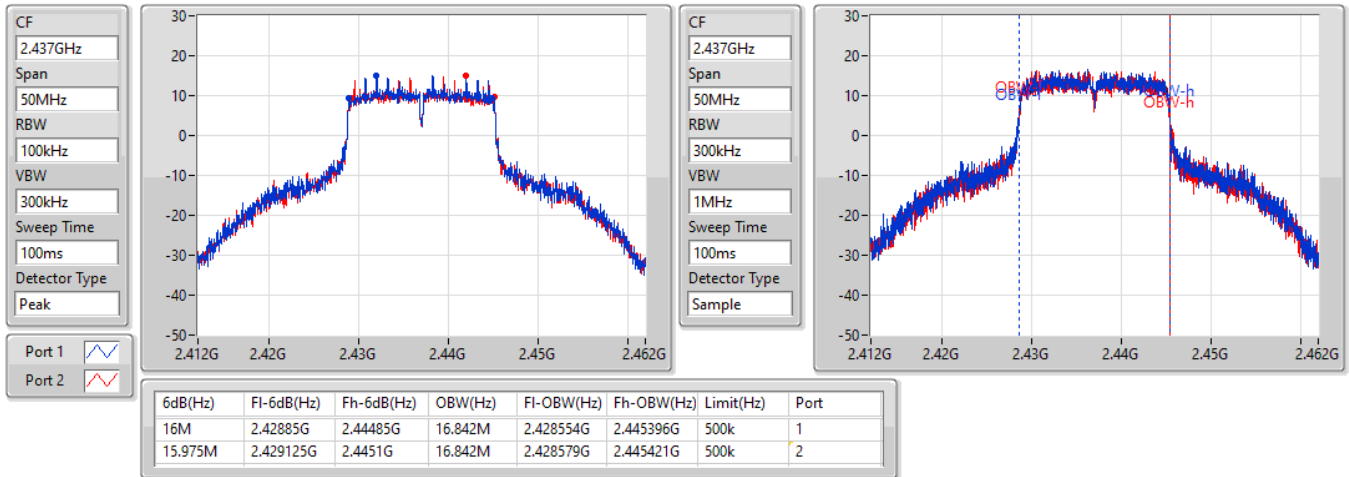
EBW
2412MHz

07/07/2021

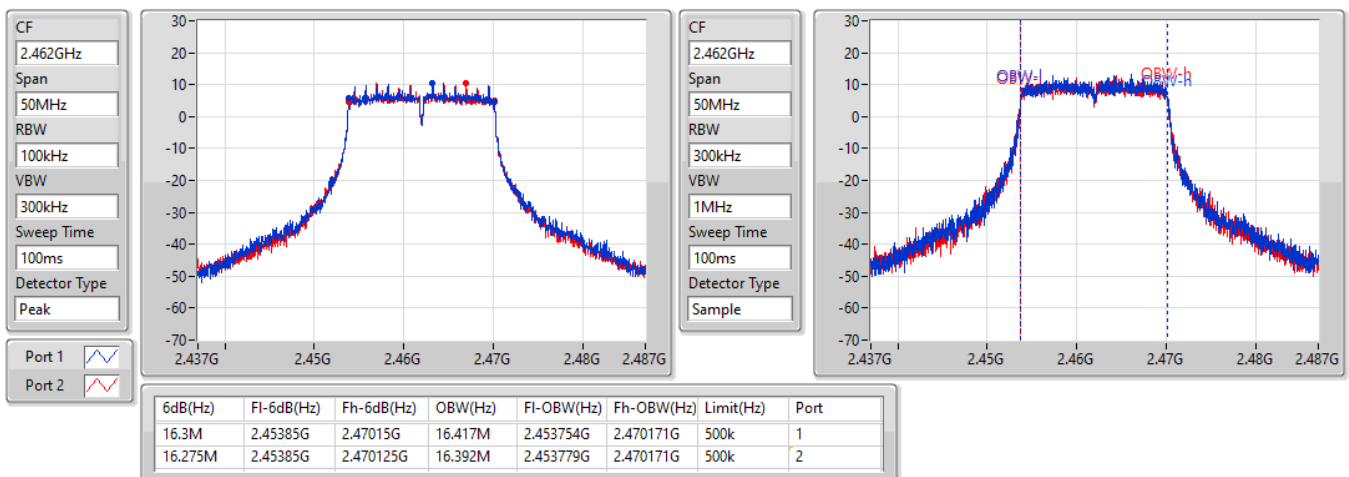


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

07/07/2021

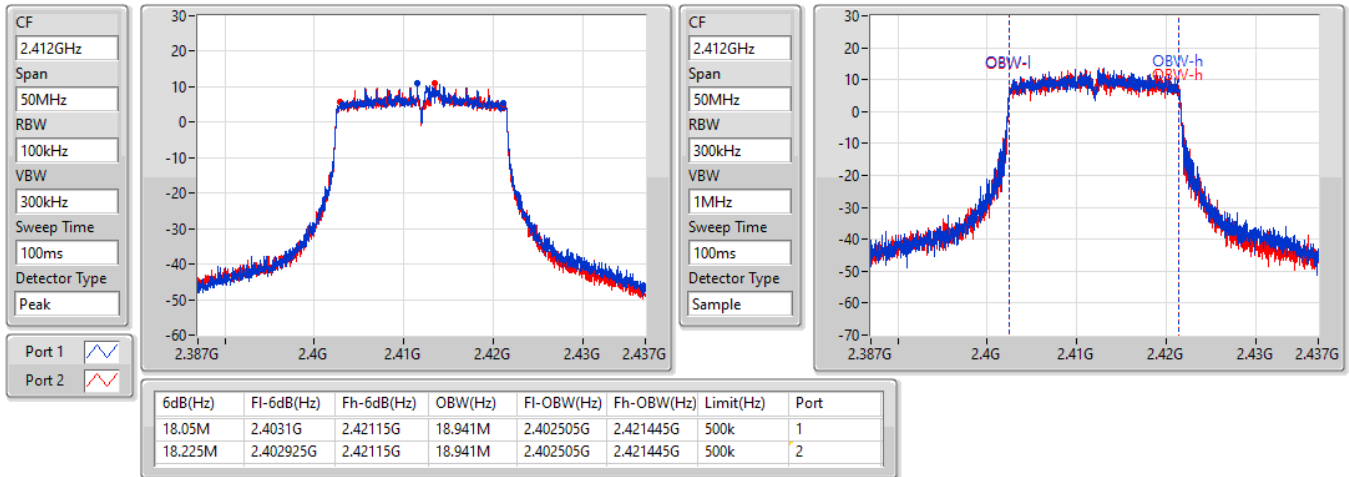

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

07/07/2021

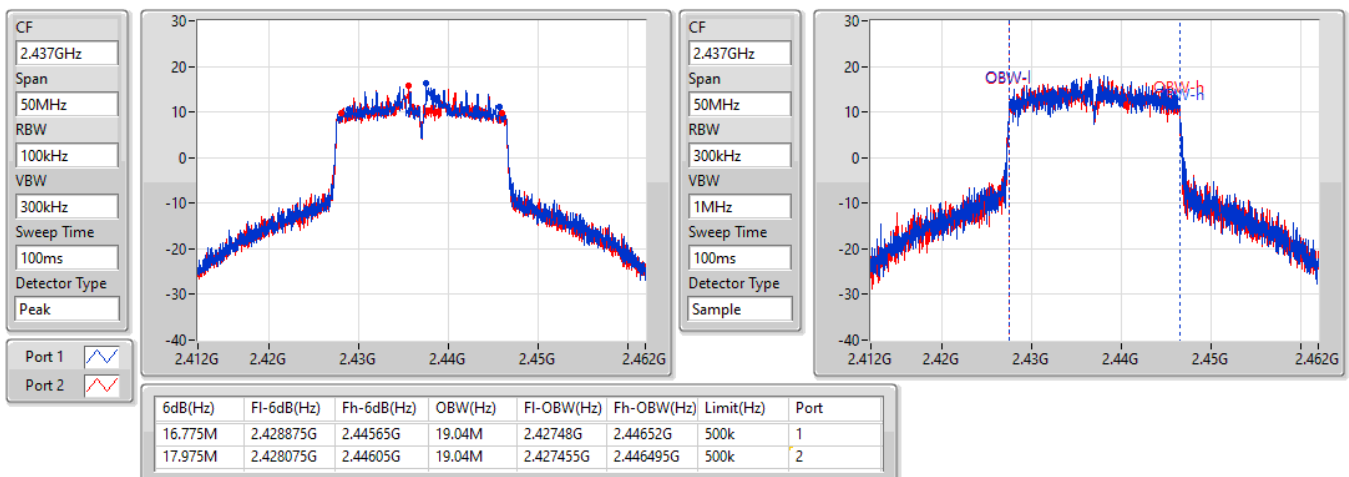


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2412MHz

07/07/2021

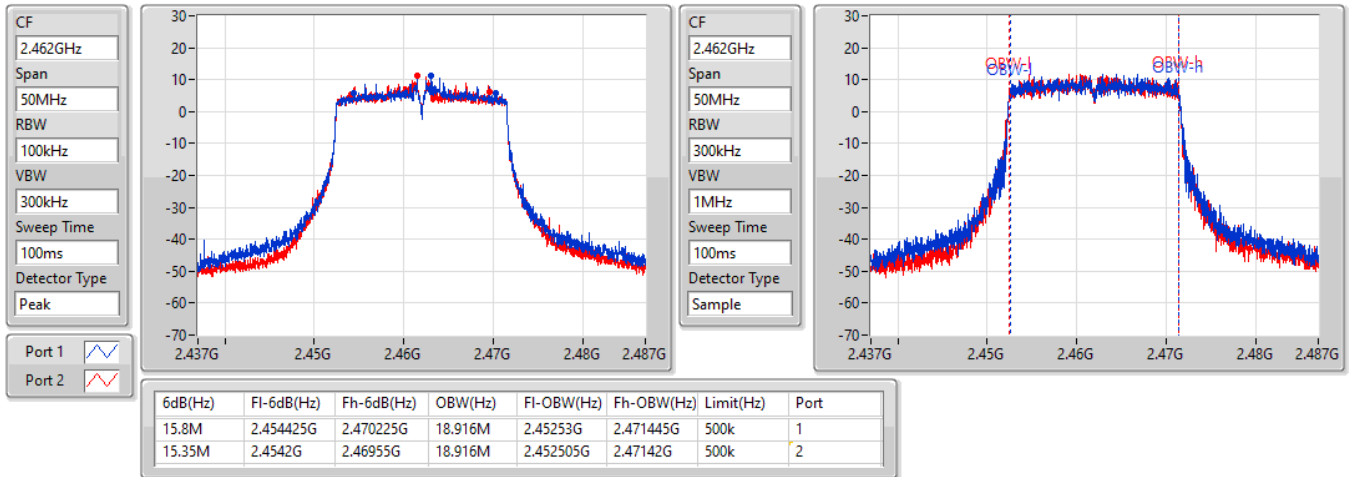

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

07/07/2021

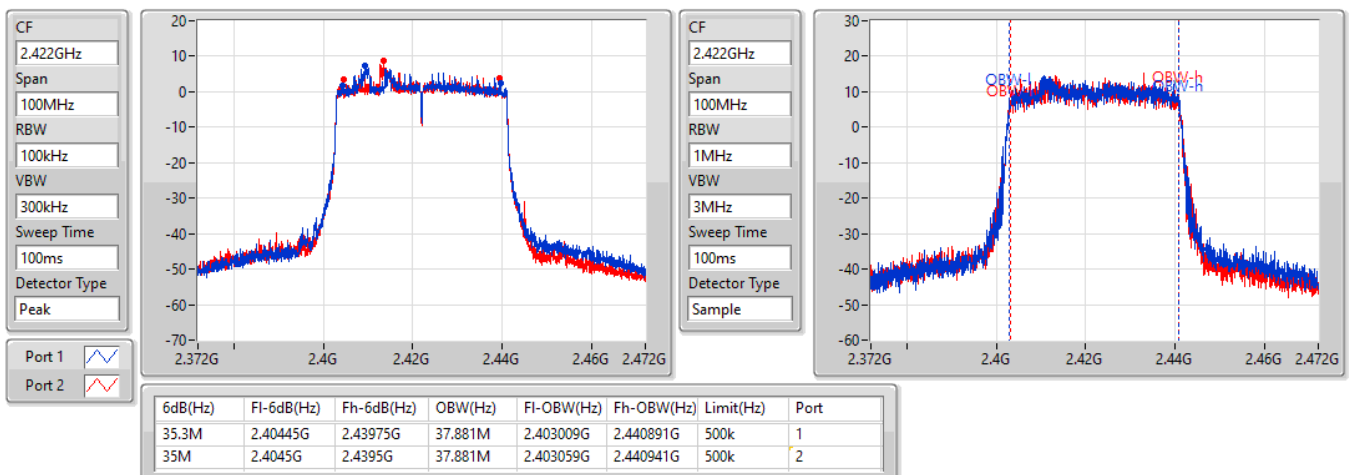


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2462MHz

07/07/2021

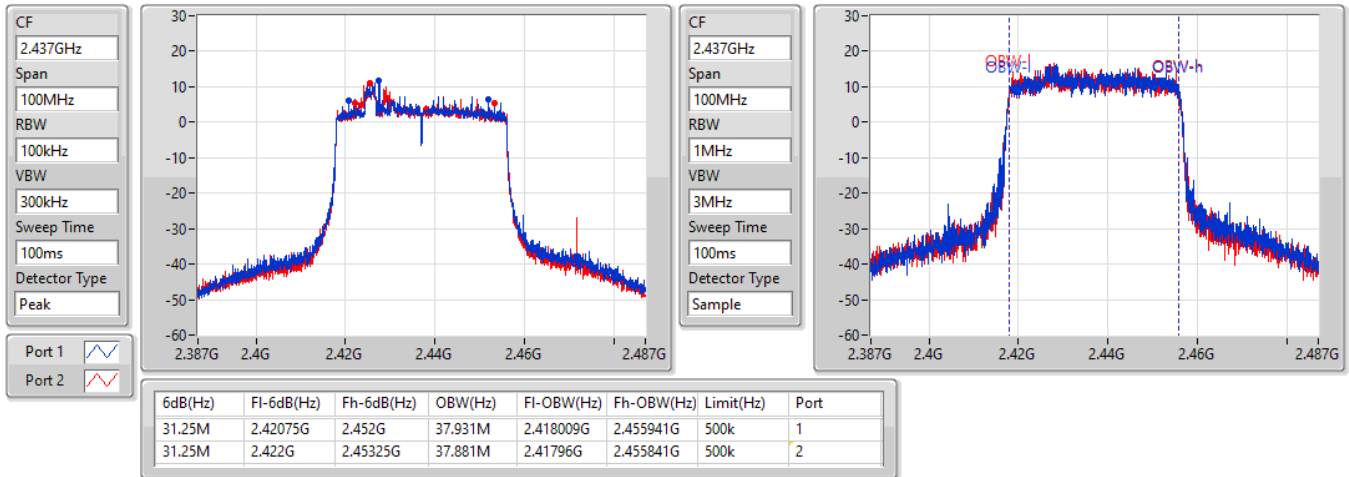

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
2422MHz

07/07/2021

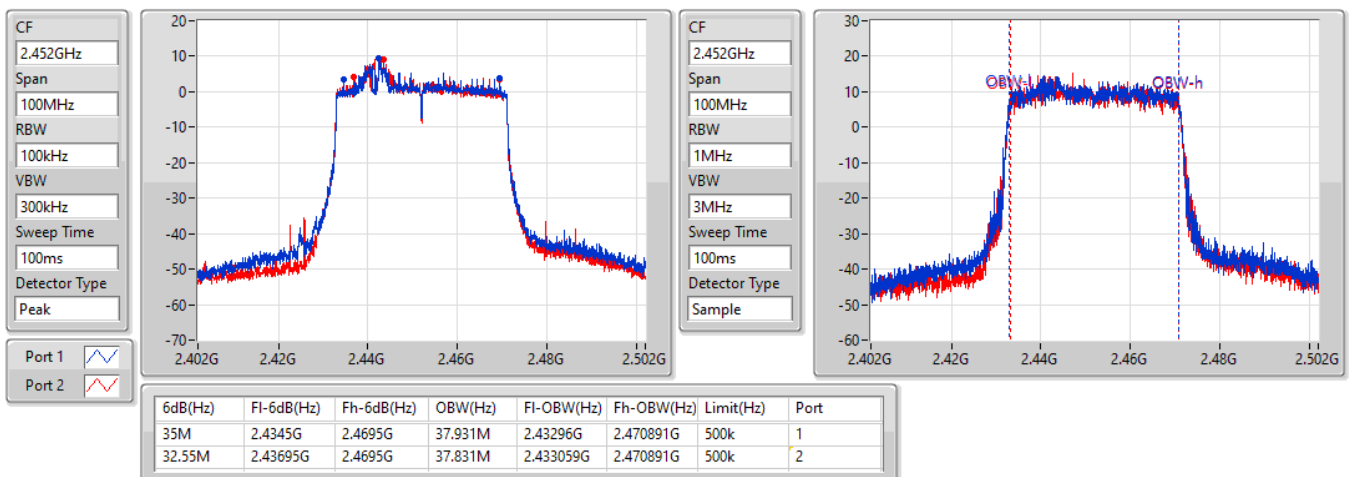


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

07/07/2021


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

07/07/2021





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	29.66	0.92470
802.11g_Nss1,(6Mbps)_2TX	28.61	0.72611
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	28.66	0.73451
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.34	0.27164

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.97	24.32	24.17	27.26	30.00
2417MHz	Pass	3.97	24.77	24.55	27.67	30.00
2437MHz	Pass	3.97	26.78	26.51	29.66	30.00
2457MHz	Pass	3.97	23.55	23.48	26.53	30.00
2462MHz	Pass	3.97	23.28	23.06	26.18	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.97	21.34	21.06	24.21	30.00
2417MHz	Pass	3.97	23.24	23.05	26.16	30.00
2437MHz	Pass	3.97	25.68	25.52	28.61	30.00
2457MHz	Pass	3.97	22.55	22.37	25.47	30.00
2462MHz	Pass	3.97	21.52	21.34	24.44	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.97	21.47	21.13	24.31	29.03
2417MHz	Pass	6.97	22.27	22.08	25.19	29.03
2437MHz	Pass	6.97	25.72	25.58	28.66	29.03
2457MHz	Pass	6.97	22.28	22.04	25.17	29.03
2462MHz	Pass	6.97	20.34	20.04	23.20	29.03
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.97	19.61	19.43	22.53	29.03
2437MHz	Pass	6.97	21.39	21.27	24.34	29.03
2452MHz	Pass	6.97	19.38	19.24	22.32	29.03

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	5.02
802.11g_Nss1,(6Mbps)_2TX	-0.04
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	1.77
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-5.60

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.97	0.70	0.62	3.02	7.03
2437MHz	Pass	6.97	3.29	3.66	5.02	7.03
2462MHz	Pass	6.97	-0.70	-1.17	2.03	7.03
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.97	-6.43	-7.03	-4.67	7.03
2437MHz	Pass	6.97	-2.82	-2.25	-0.04	7.03
2462MHz	Pass	6.97	-5.61	-6.14	-4.10	7.03
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.97	-5.55	-5.05	-2.63	7.03
2437MHz	Pass	6.97	-0.38	-0.89	1.77	7.03
2462MHz	Pass	6.97	-5.48	-5.85	-3.34	7.03
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.97	-7.28	-9.59	-6.30	7.03
2437MHz	Pass	6.97	-6.92	-7.07	-5.60	7.03
2452MHz	Pass	6.97	-8.42	-9.63	-7.01	7.03

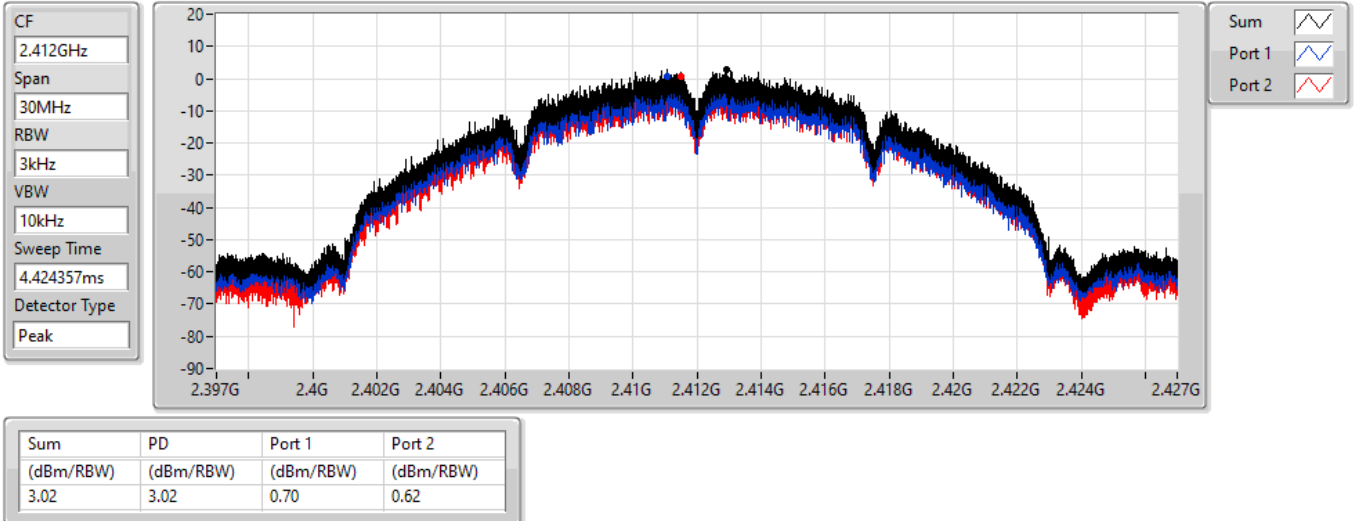
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

07/07/2021

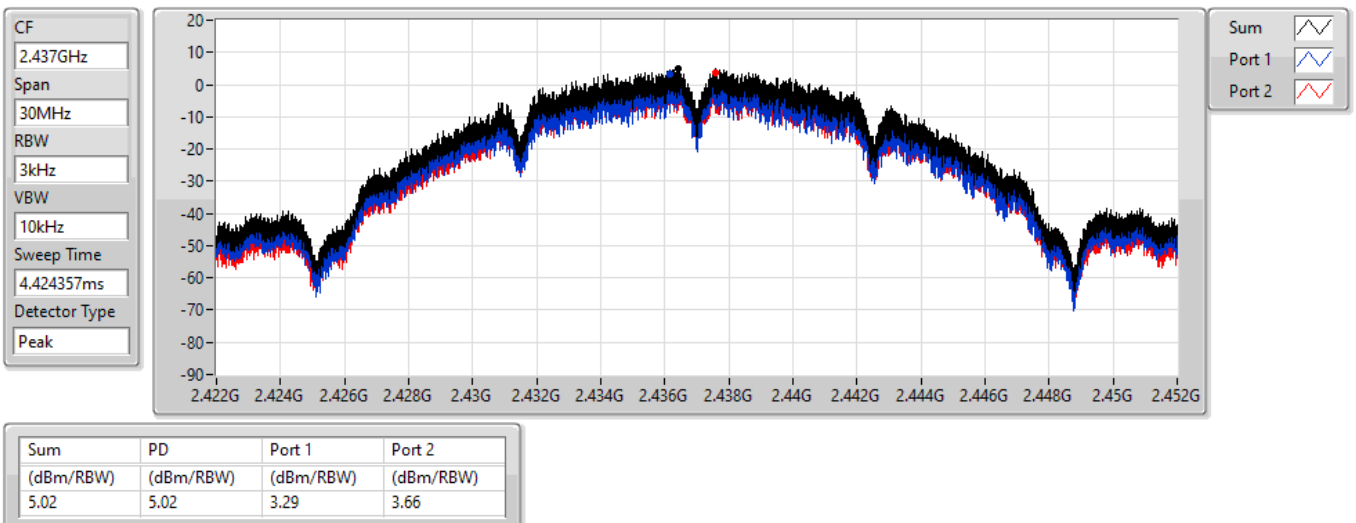


802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

07/07/2021

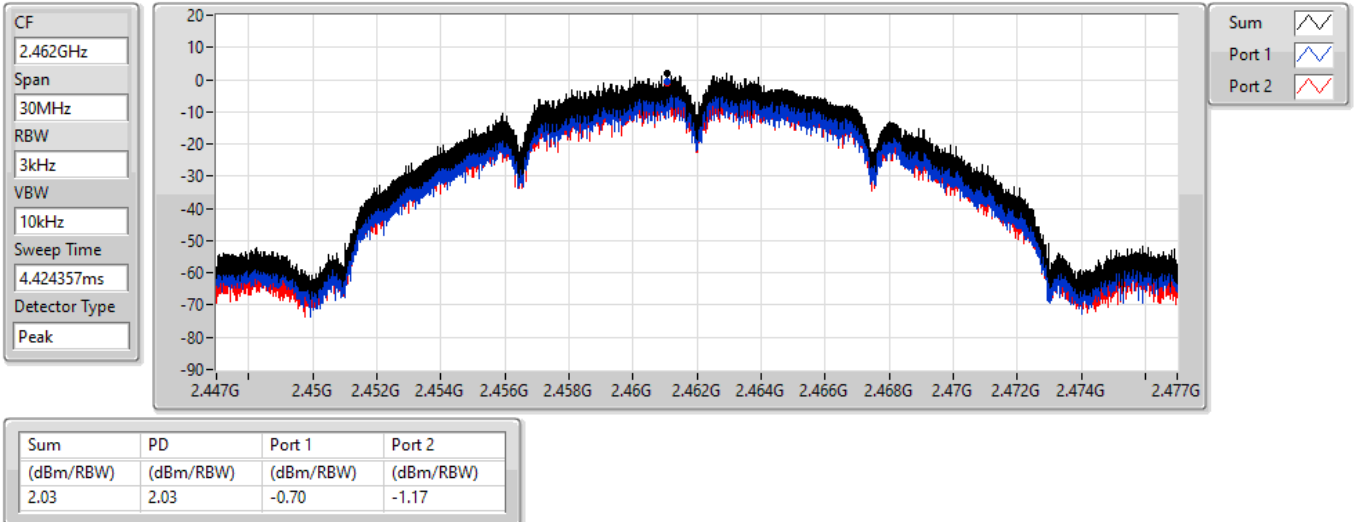


802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

07/07/2021

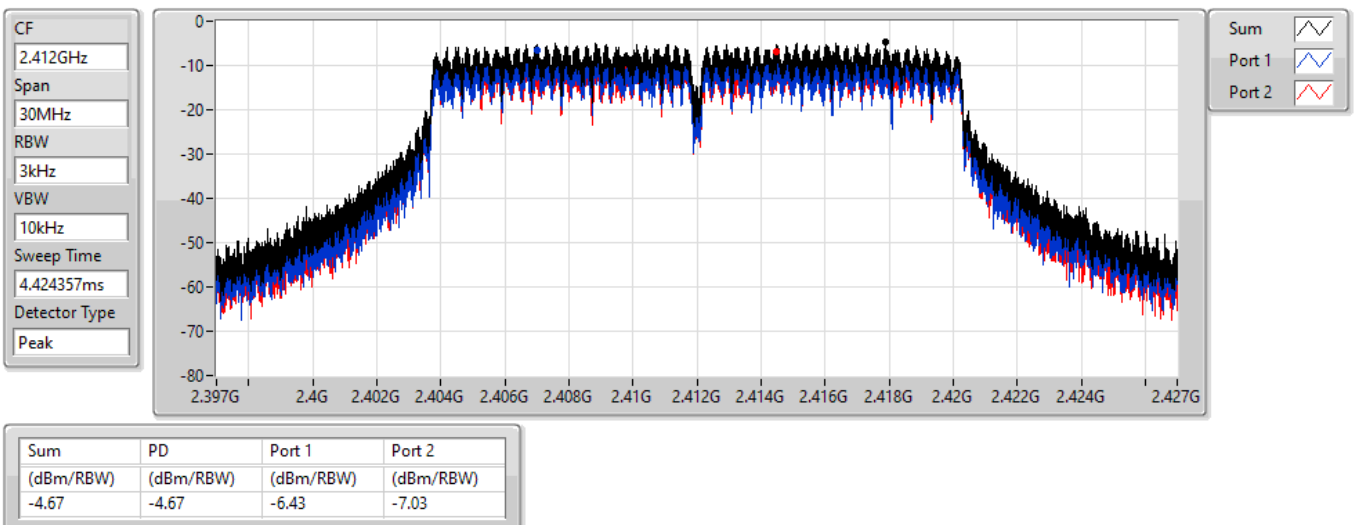


802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

07/07/2021

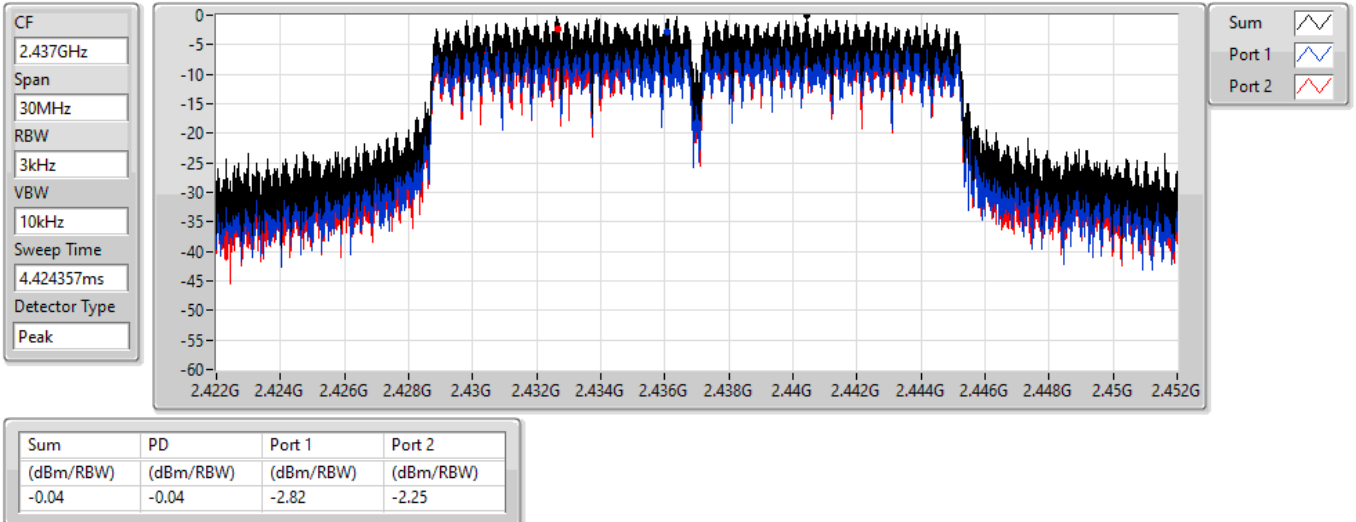


802.11g_Nss1,(6Mbps)_2TX

2437MHz

PSD

07/07/2021

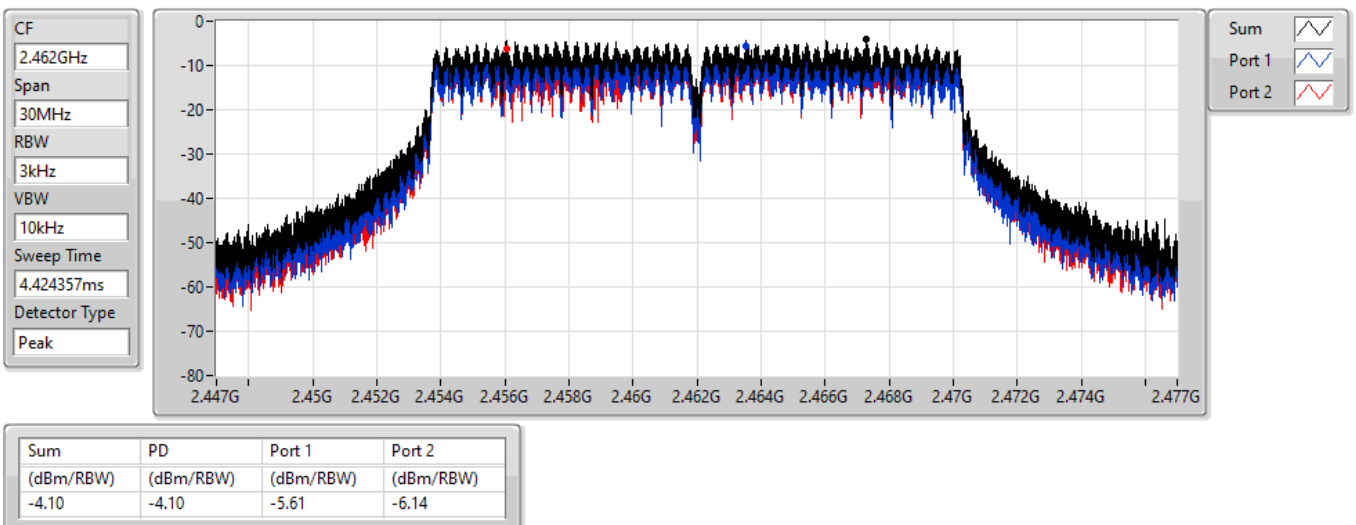


802.11g_Nss1,(6Mbps)_2TX

2462MHz

PSD

07/07/2021

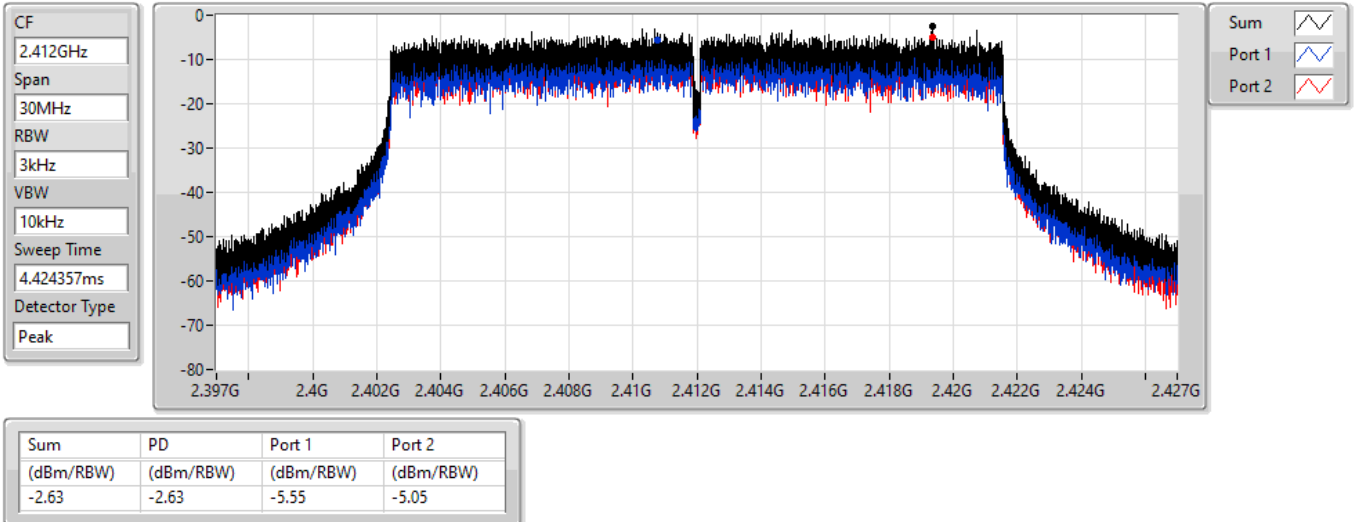


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2412MHz

07/07/2021

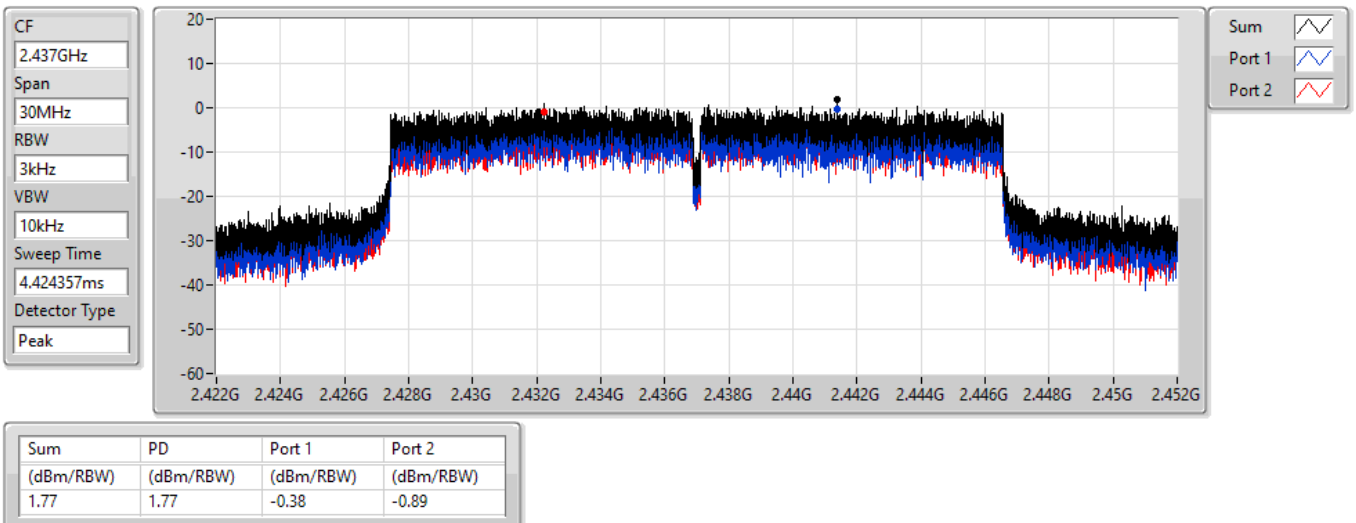


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

07/07/2021

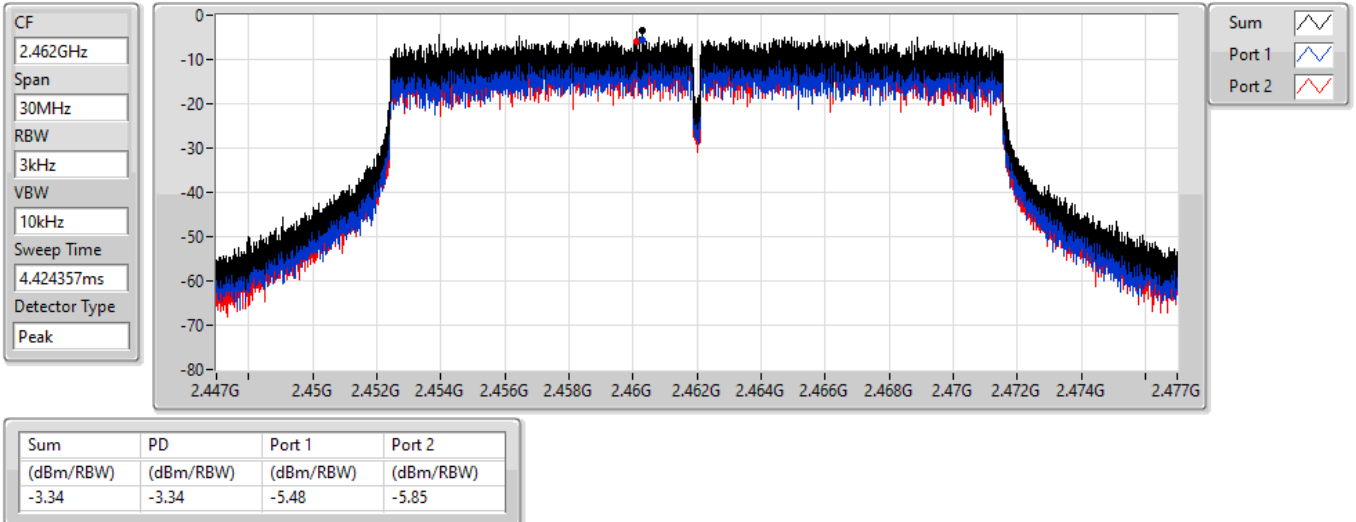


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2462MHz

07/07/2021

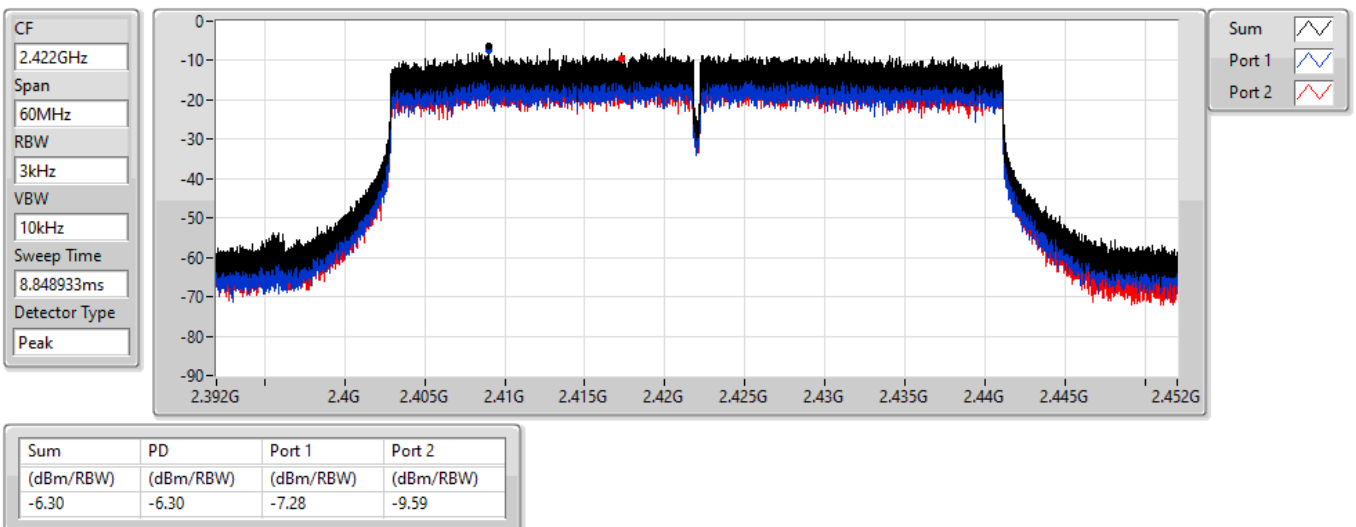


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2422MHz

07/07/2021

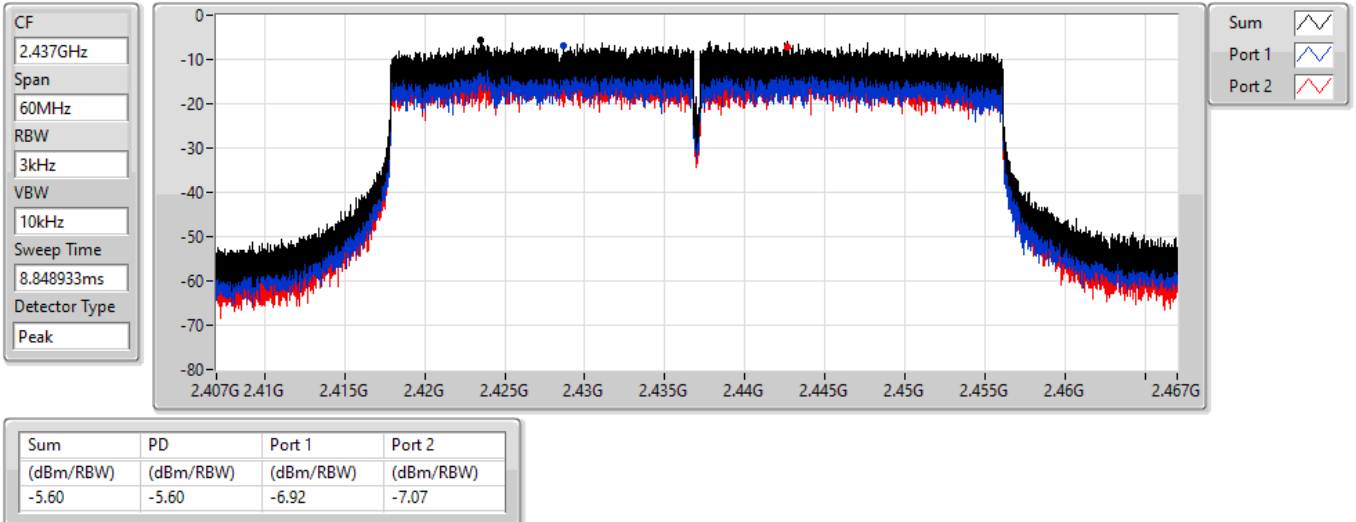


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

07/07/2021

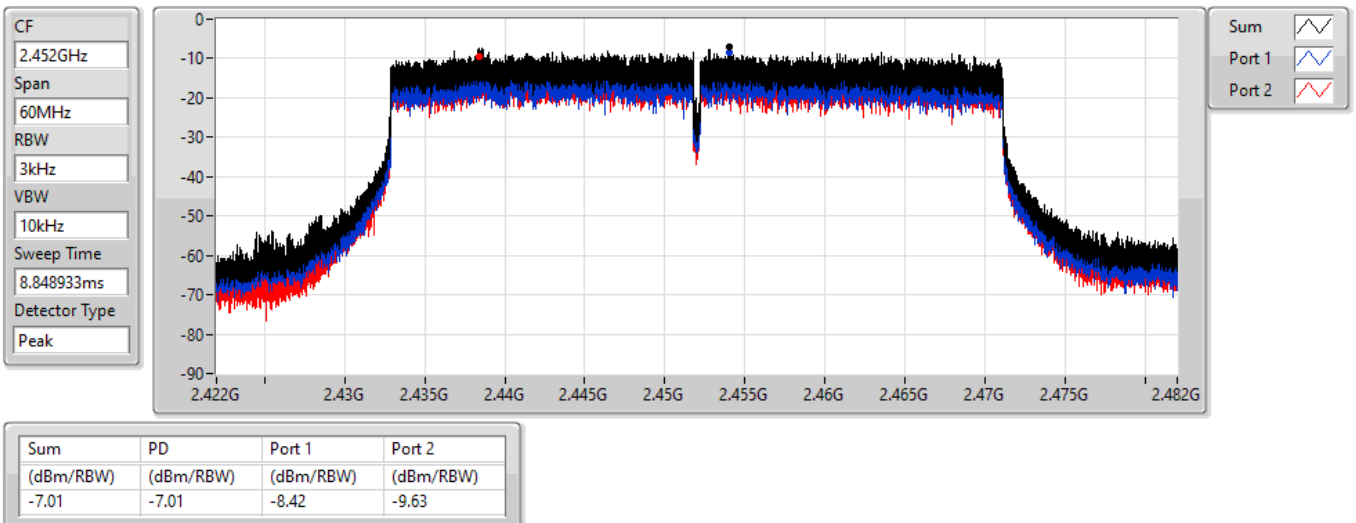


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2452MHz

07/07/2021



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43603G	18.36	-11.64	363.19M	-47.25	2.39992G	-35.51	2.4G	-43.30	2.52294G	-46.35	17.48442G	-41.72	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43824G	15.08	-14.92	2.11739G	-47.01	2.39968G	-29.29	2.4G	-31.20	2.48572G	-46.56	24.10375G	-40.88	1
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.43599G	18.16	-11.84	796.28M	-47.12	2.39992G	-27.11	2.4G	-49.47	2.49172G	-45.91	24.84547G	-41.55	1
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.42634G	10.57	-19.43	887.61M	-46.59	2.39828G	-30.75	2.4G	-34.84	2.48946G	-45.93	24.8177G	-41.72	1

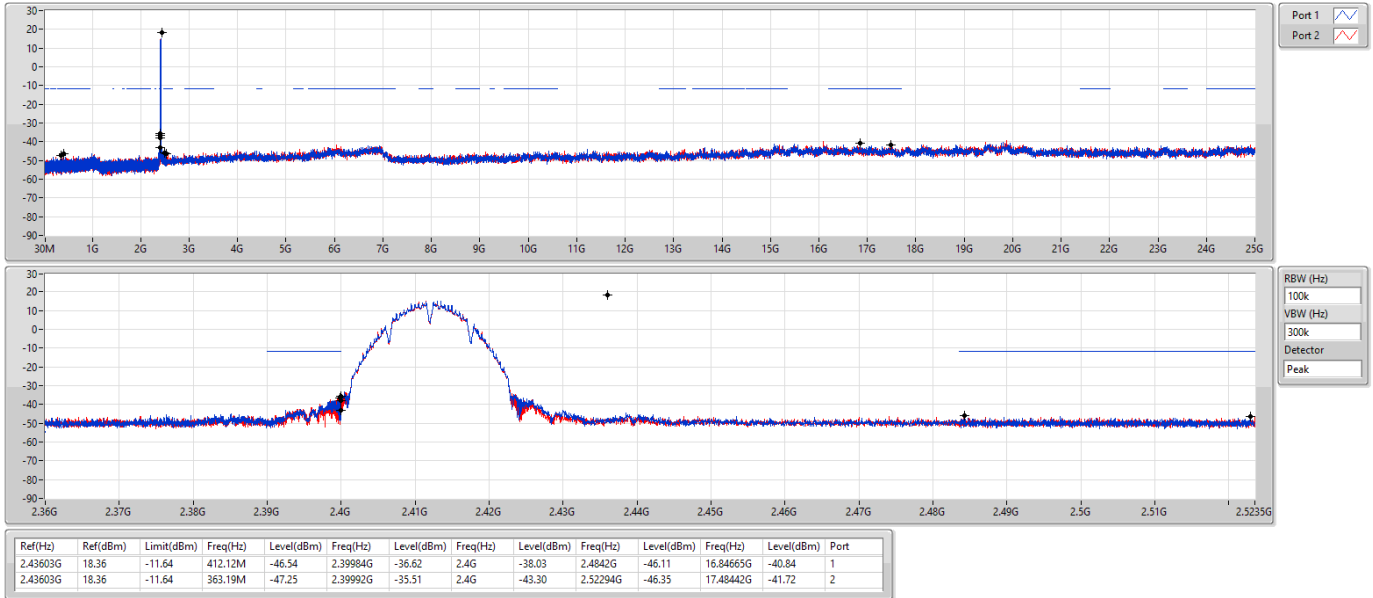
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43603G	18.36	-11.64	412.12M	-46.54	2.39984G	-36.62	2.4G	-38.03	2.4842G	-46.11	16.84665G	-40.84	1
2412MHz	Pass	2.43603G	18.36	-11.64	363.19M	-47.25	2.39992G	-35.51	2.4G	-43.30	2.52294G	-46.35	17.48442G	-41.72	2
2437MHz	Pass	2.43603G	18.36	-11.64	921.81M	-47.01	2.39774G	-44.43	2.4G	-47.56	2.48442G	-45.05	23.12602G	-41.62	1
2437MHz	Pass	2.43603G	18.36	-11.64	834.72M	-47.91	2.39944G	-45.56	2.4G	-49.87	2.5113G	-45.82	24.77243G	-41.33	2
2462MHz	Pass	2.43603G	18.36	-11.64	1.98516G	-47.93	2.39958G	-47.35	2.4835G	-49.59	2.48994G	-44.94	16.48422G	-41.37	1
2462MHz	Pass	2.43603G	18.36	-11.64	2.1471G	-47.77	2.3956G	-46.34	2.4G	-49.11	2.48718G	-45.60	15.1272G	-40.99	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	15.08	-14.92	2.11739G	-47.01	2.39968G	-29.29	2.4G	-31.20	2.48572G	-46.56	24.10375G	-40.88	1
2412MHz	Pass	2.43824G	15.08	-14.92	842.88M	-47.90	2.39996G	-29.31	2.4G	-31.99	2.49456G	-46.75	16.45893G	-40.75	2
2437MHz	Pass	2.43824G	15.08	-14.92	2.30204G	-47.18	2.39978G	-37.29	2.4G	-40.36	2.48352G	-43.38	17.43947G	-41.19	1
2437MHz	Pass	2.43824G	15.08	-14.92	2.15729G	-46.47	2.39986G	-37.22	2.4G	-39.59	2.4848G	-44.28	16.81293G	-41.28	2
2462MHz	Pass	2.43824G	15.08	-14.92	2.15671G	-46.57	2.39816G	-46.86	2.4835G	-42.47	2.48358G	-41.12	6.65075G	-41.82	1
2462MHz	Pass	2.43824G	15.08	-14.92	922.1M	-46.99	2.39836G	-46.14	2.4835G	-44.62	2.48418G	-42.45	17.24842G	-41.20	2
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43599G	18.16	-11.84	796.28M	-47.12	2.39992G	-27.11	2.4G	-49.47	2.49172G	-45.91	24.84547G	-41.55	1
2412MHz	Pass	2.43599G	18.16	-11.84	842.59M	-47.05	2.39988G	-29.50	2.4G	-28.07	2.49588G	-45.77	6.61422G	-41.43	2
2437MHz	Pass	2.43599G	18.16	-11.84	2.14477G	-47.31	2.39996G	-35.48	2.4G	-38.02	2.48446G	-42.55	16.45893G	-41.08	1
2437MHz	Pass	2.43599G	18.16	-11.84	2.30321G	-47.46	2.39918G	-32.33	2.4G	-37.59	2.48574G	-43.85	24.5589G	-40.75	2
2462MHz	Pass	2.43599G	18.16	-11.84	492.8M	-47.04	2.39698G	-46.66	2.4835G	-44.17	2.48458G	-41.66	15.05977G	-41.57	1
2462MHz	Pass	2.43599G	18.16	-11.84	383.58M	-47.55	2.3918G	-45.94	2.4835G	-46.57	2.48384G	-43.73	16.80732G	-41.17	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42634G	10.57	-19.43	887.61M	-46.59	2.39828G	-30.75	2.4G	-34.84	2.48946G	-45.93	24.8177G	-41.72	1
2422MHz	Pass	2.42634G	10.57	-19.43	391.53M	-47.44	2.4G	-34.83	2.4G	-33.63	2.52278G	-47.30	16.45169G	-41.66	2
2437MHz	Pass	2.42634G	10.57	-19.43	34.01M	-46.72	2.39976G	-38.31	2.4G	-38.45	2.48486G	-42.24	16.74898G	-40.95	1
2437MHz	Pass	2.42634G	10.57	-19.43	32M	-46.86	2.39928G	-39.99	2.4G	-41.95	2.49322G	-44.30	6.92179G	-40.86	2
2452MHz	Pass	2.42634G	10.57	-19.43	2.07612G	-46.30	2.39904G	-47.31	2.4835G	-43.35	2.48582G	-40.56	16.20209G	-41.81	1
2452MHz	Pass	2.42634G	10.57	-19.43	583.04M	-47.65	2.39552G	-46.75	2.4835G	-44.93	2.4895G	-41.62	16.50498G	-41.69	2

802.11b_Nss1,(1Mbps)_2TX

CSENdB

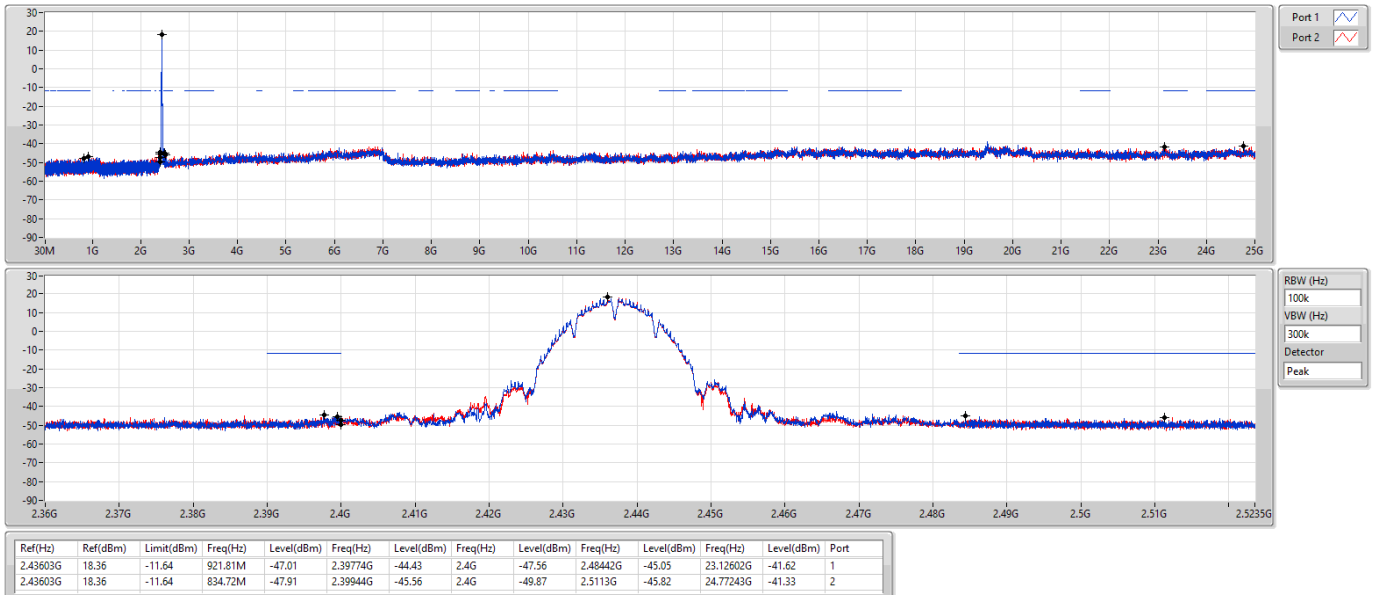
2412MHz



802.11b_Nss1,(1Mbps)_2TX

CSENdB

2437MHz

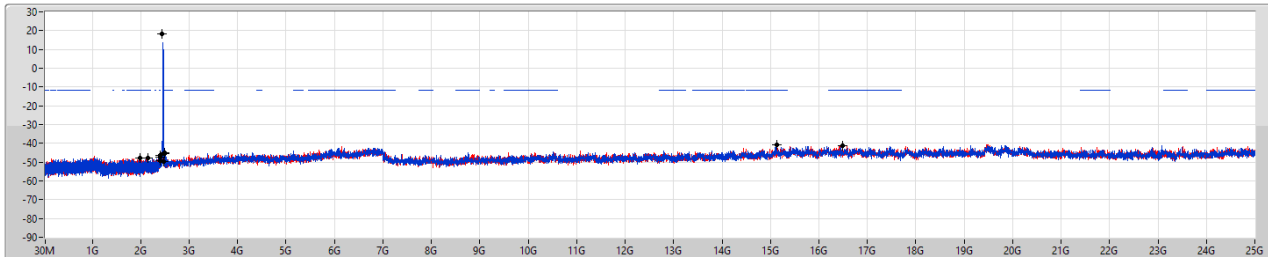


802.11b_Nss1,(1Mbps)_2TX

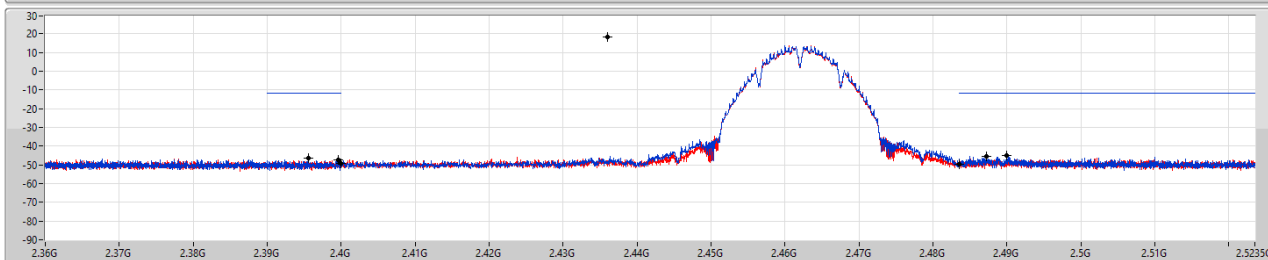
2462MHz

CSEndB

07/07/2021



Port 1
Port 2



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

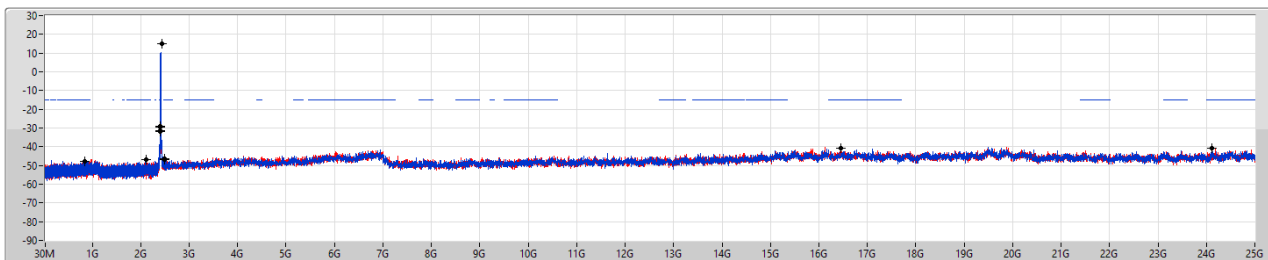
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2.43603G	18.36	-11.64	1.98516G	-47.93	2.39958G	-47.35	2.4835G	-49.59	2.48994G	-44.94	16.48422G	-41.37	1
2.43603G	18.36	-11.64	2.1471G	-47.77	2.39956G	-46.34	2.4G	-49.11	2.48718G	-45.60	15.1272G	-40.99	2

802.11g_Nss1,(6Mbps)_2TX

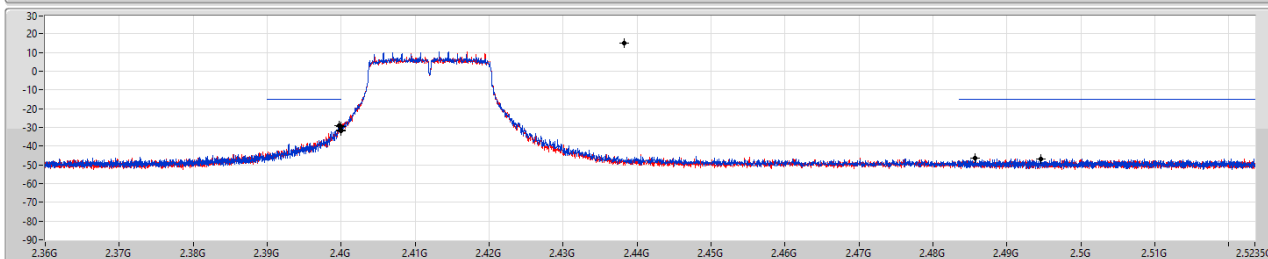
2412MHz

CSEndB

07/07/2021



Port 1
Port 2



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

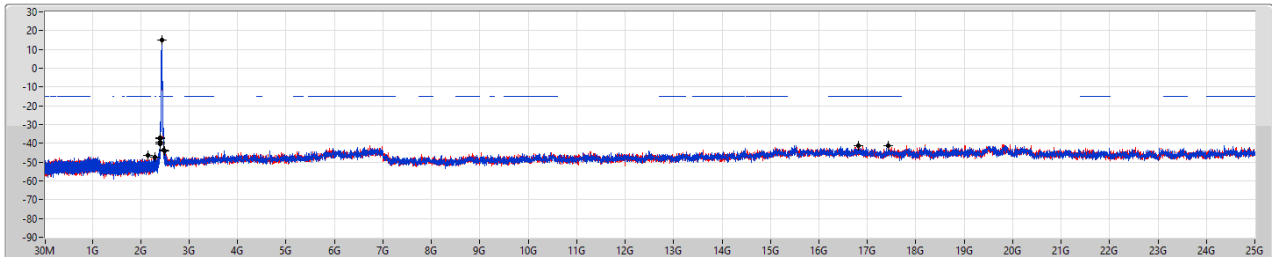
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2.43824G	15.08	-14.92	2.11799G	-47.01	2.39968G	-29.29	2.4G	-31.20	2.48572G	-46.56	24.10375G	-40.88	1
2.43824G	15.08	-14.92	842.88M	-47.90	2.39996G	-29.31	2.4G	-31.99	2.49456G	-46.75	16.45893G	-40.75	2

802.11g_Nss1,(6Mbps)_2TX

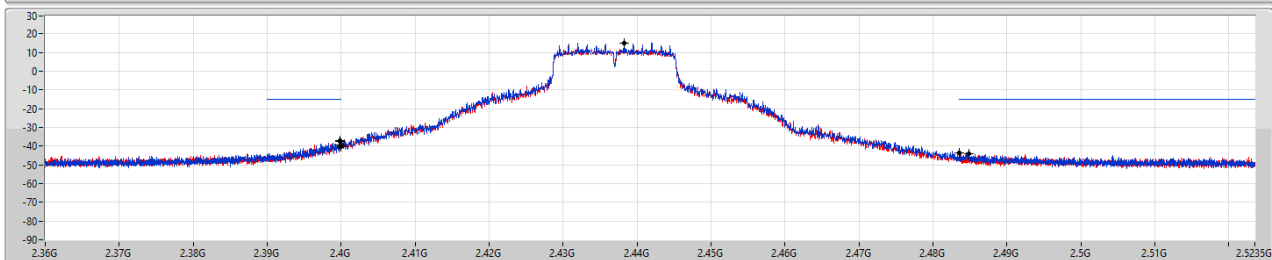
2437MHz

CSEndB

07/07/2021



Port 1
Port 2



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

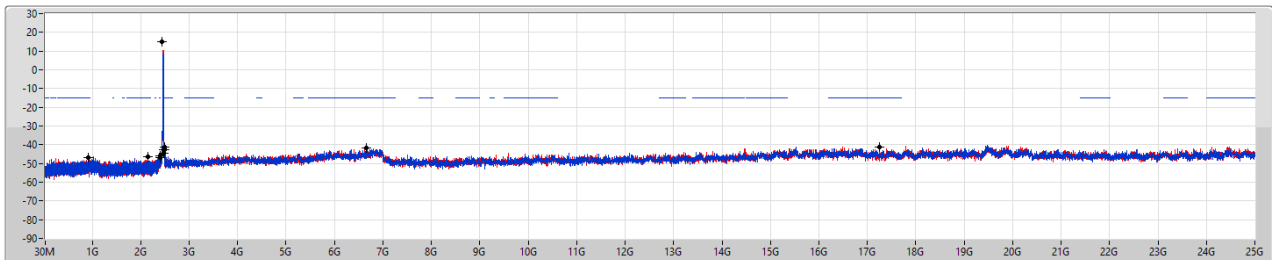
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2.43824G	15.08	-14.92	2.30204G	-47.18	2.39978G	-37.29	2.4G	-40.36	2.48352G	-43.38	17.43947G	-41.19	1
2.43824G	15.08	-14.92	2.15729G	-46.47	2.39986G	-37.22	2.4G	-39.59	2.4848G	-44.28	16.81293G	-41.28	2

802.11g_Nss1,(6Mbps)_2TX

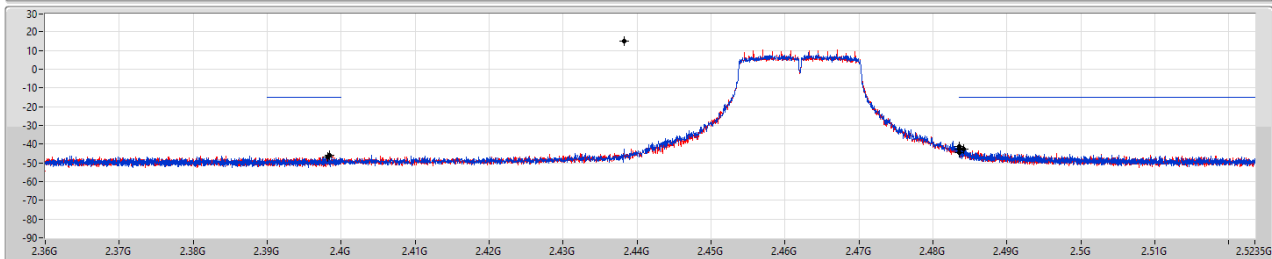
2462MHz

CSEndB

07/07/2021



Port 1
Port 2



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

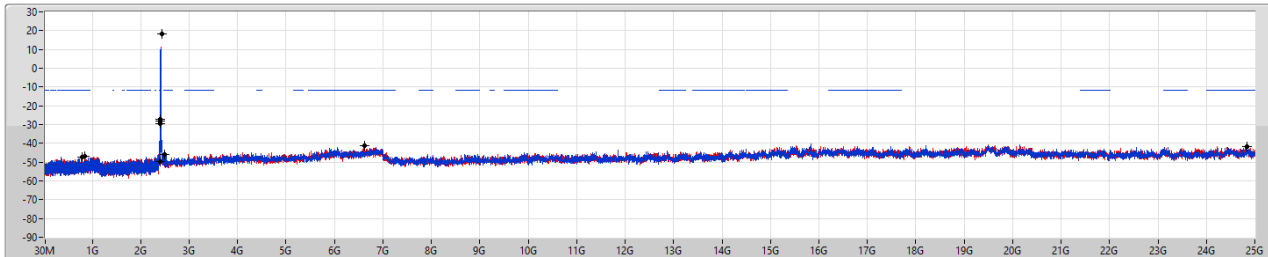
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2.43824G	15.08	-14.92	2.15671G	-46.57	2.39816G	-46.86	2.4835G	-42.47	2.48358G	-41.12	6.65079G	-41.82	1
2.43824G	15.08	-14.92	922.1M	-46.99	2.39836G	-46.14	2.4835G	-44.62	2.48418G	-42.45	17.24842G	-41.20	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

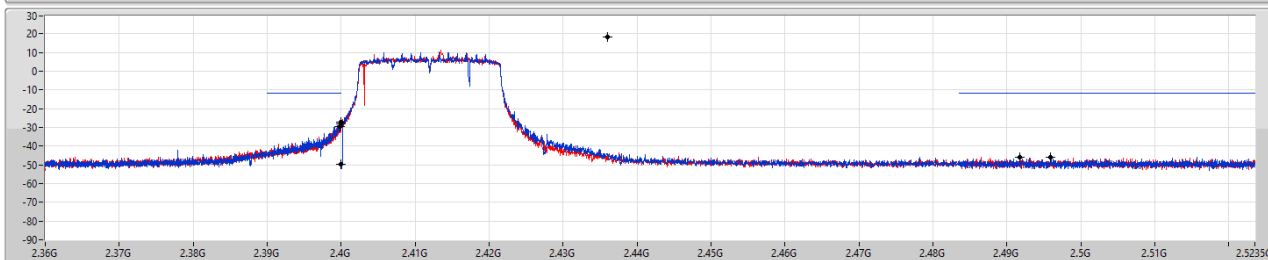
2412MHz

CSENdB

07/07/2021



Port 1
Port 2



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

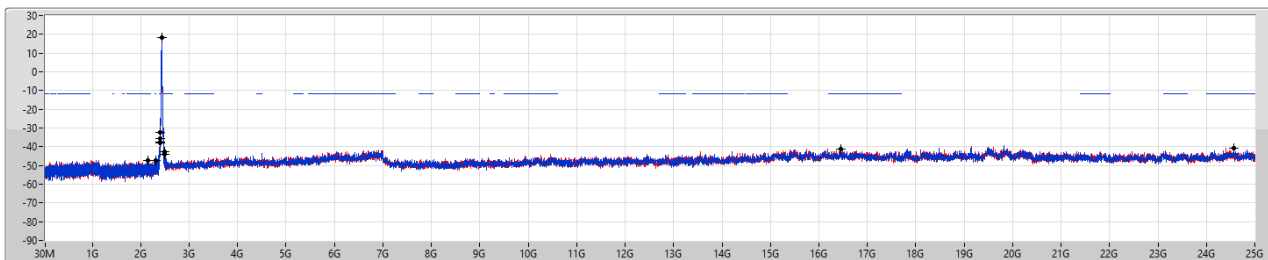
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43599G	18.16	-11.84	796.28M	-47.12	2.39992G	-27.11	2.4G	-49.47	2.49172G	-45.91	24.84547G	-41.55	1
2.43599G	18.16	-11.84	842.59M	-47.05	2.39988G	-29.50	2.4G	-28.07	2.49588G	-45.77	6.61422G	-41.43	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

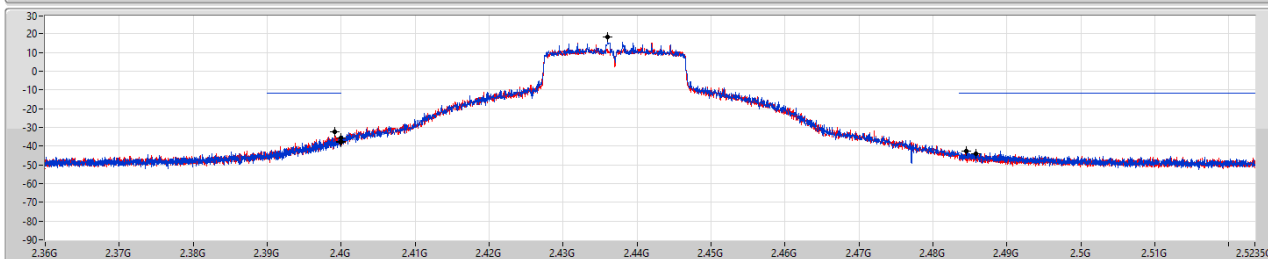
2437MHz

CSENdB

07/07/2021



Port 1
Port 2



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

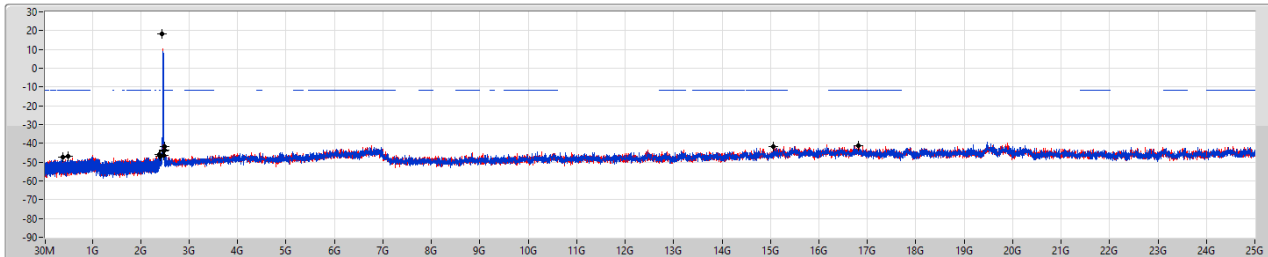
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2.43599G	18.16	-11.84	2.14477G	-47.31	2.39996G	-35.48	2.4G	-38.02	2.48446G	-42.55	16.45893G	-41.08	1
2.43599G	18.16	-11.84	2.30321G	-47.46	2.39918G	-32.33	2.4G	-37.59	2.48574G	-43.85	24.5589G	-40.75	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

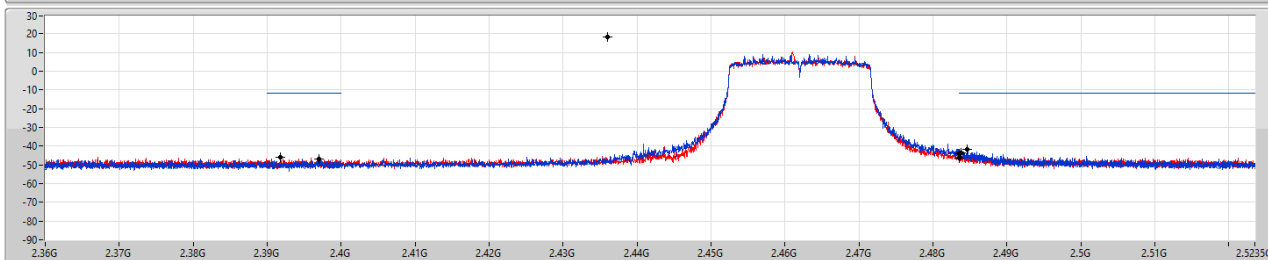
2462MHz

CSEndB

07/07/2021



Port 1
Port 2



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

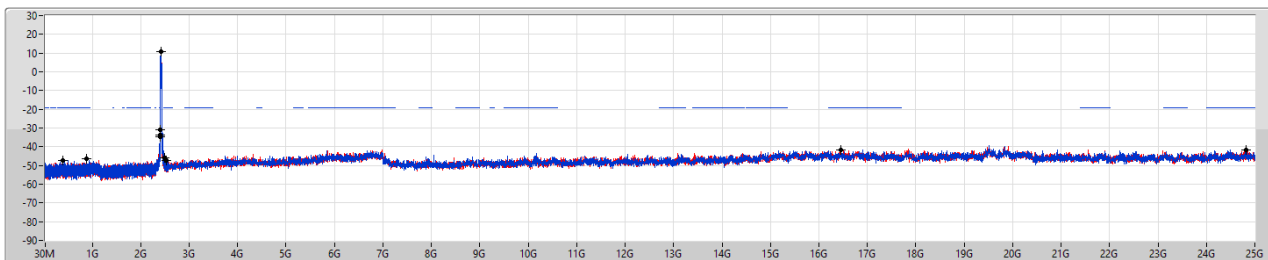
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43599G	18.16	-11.84	492.8M	-47.04	2.39698G	-46.66	2.4835G	-44.17	2.48458G	-41.66	15.05977G	-41.57	1
2.43599G	18.16	-11.84	383.58M	-47.55	2.3918G	-45.94	2.4835G	-46.57	2.48384G	-43.73	16.80732G	-41.17	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

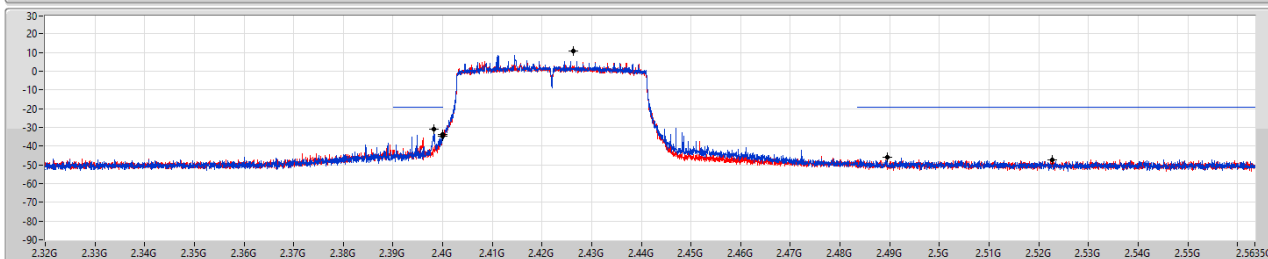
2422MHz

CSEndB

07/07/2021



Port 1
Port 2



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

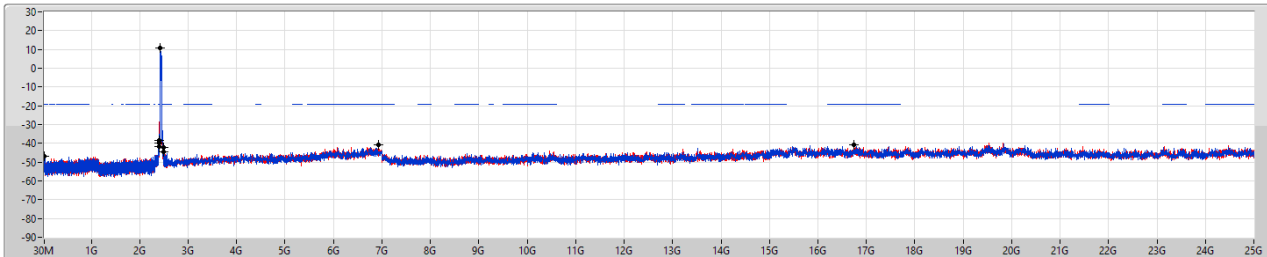
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42634G	10.57	-19.43	887.61M	-46.59	2.39828G	-30.75	2.4G	-34.84	2.48946G	-45.93	24.8177G	-41.72	1
2.42634G	10.57	-19.43	391.53M	-47.44	2.4G	-34.83	2.4G	-33.63	2.52278G	-47.30	16.45169G	-41.66	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

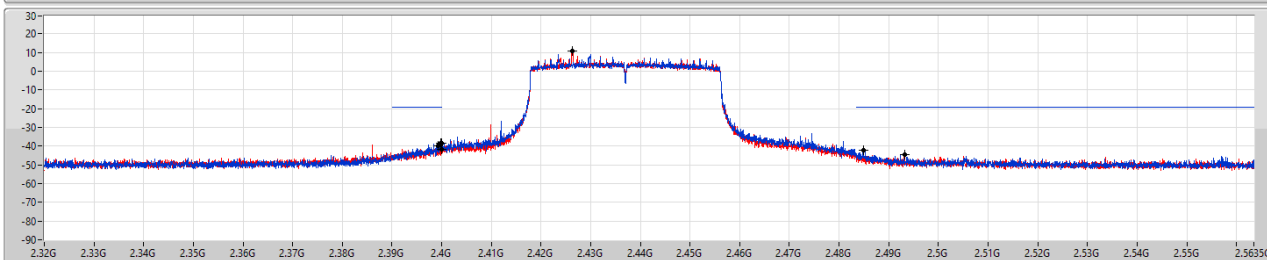
2437MHz

CSENdB

07/07/2021



Port 1
Port 2



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

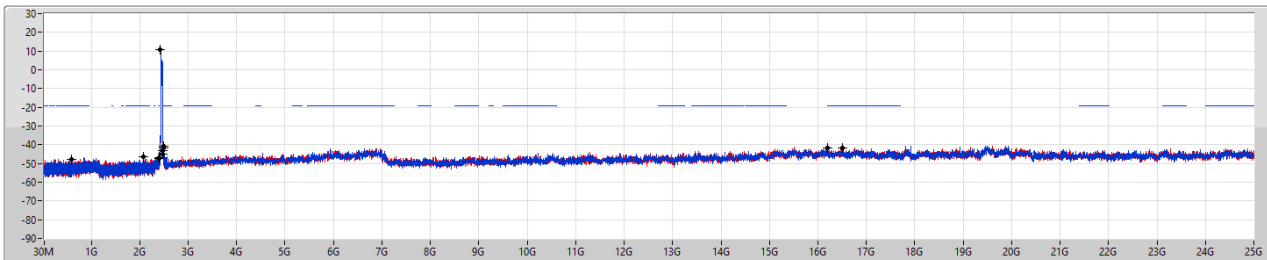
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42634G	10.57	-19.43	34.01M	-46.72	2.39976G	-38.31	2.4G	-38.45	2.48486G	-42.24	16.74898G	-40.95	1
2.42634G	10.57	-19.43	32M	-46.86	2.39928G	-39.99	2.4G	-41.95	2.49322G	-44.30	6.92179G	-40.86	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

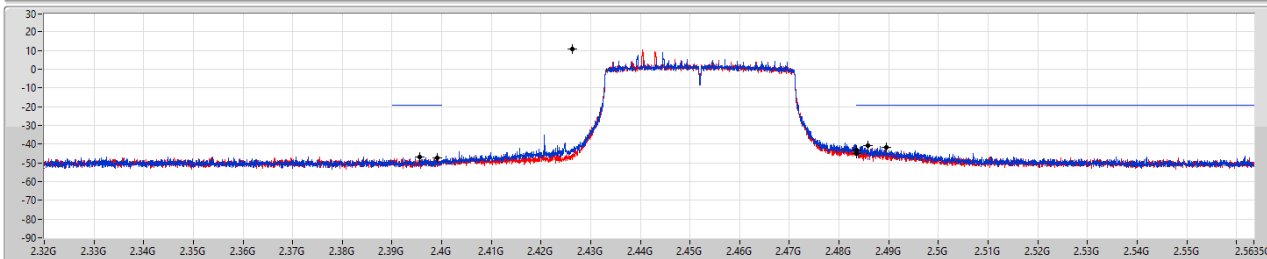
2452MHz

CSENdB

07/07/2021



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
2.42634G	10.57	-19.43	2.07612G	-46.30	2.39904G	-47.31	2.4833G	-43.35	2.48583G	-40.56	16.20209G	-41.81	1
2.42634G	10.57	-19.43	583.04M	-47.65	2.39552G	-46.75	2.4833G	-44.93	2.4889G	-41.62	16.30498G	-41.69	2



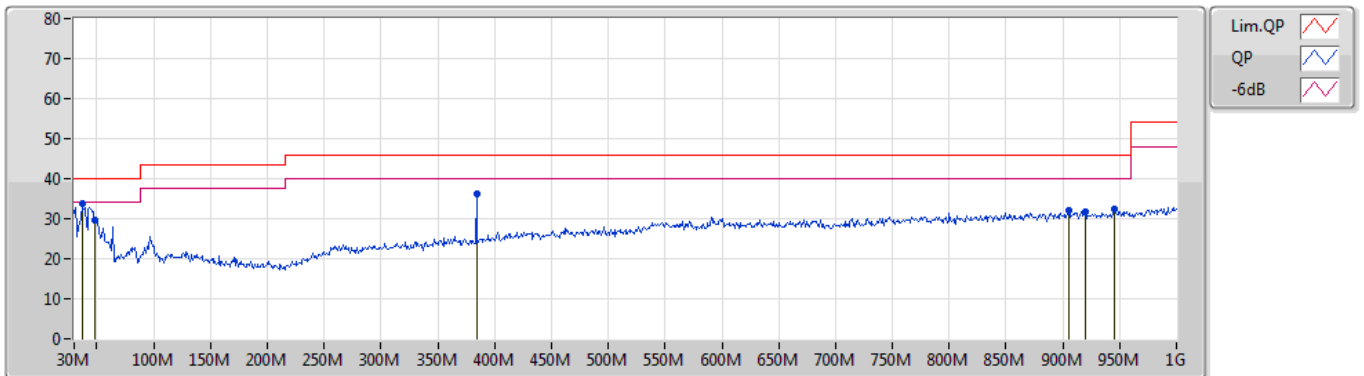
Radiated Emissions below 1GHz

Appendix F.1

Summary

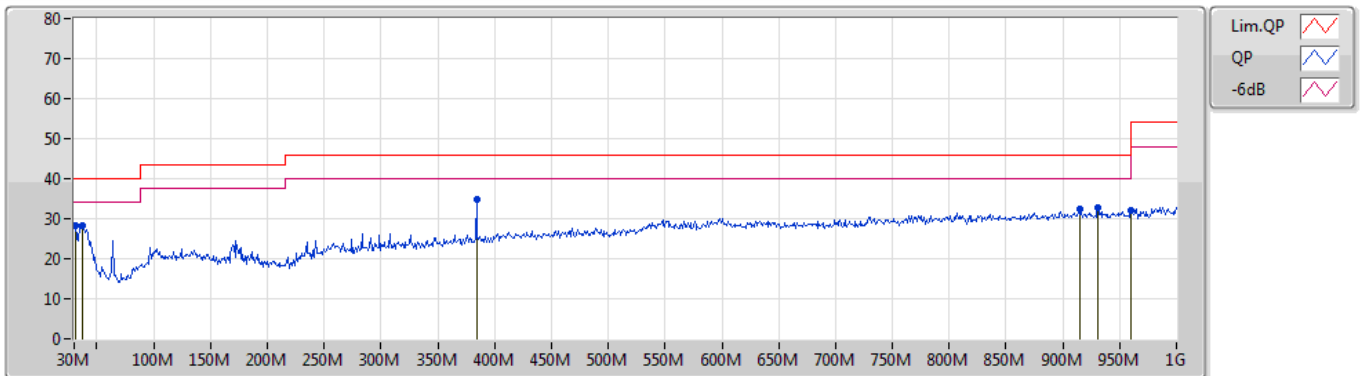
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	PK	36.79M	33.70	40.00	-6.30	Vertical

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	36.79M	33.70	40.00	-6.30	-7.46	3	Vertical	360	1.25	"Worst"	41.16	20.78	0.24	28.48
PK	48.43M	29.59	40.00	-10.41	-13.38	3	Vertical	327	1.00	-	42.97	14.71	0.40	28.49
PK	384.05M	36.17	46.00	-9.83	-5.68	3	Vertical	135	1.50	-	41.85	20.74	2.04	28.46
PK	905.91M	31.95	46.00	-14.05	0.56	3	Vertical	242	3.00	-	31.39	25.75	3.50	28.69
PK	920.46M	31.88	46.00	-14.12	0.49	3	Vertical	149	3.00	-	31.39	25.64	3.50	28.65
PK	945.68M	32.43	46.00	-13.57	0.79	3	Vertical	354	3.00	-	31.64	25.86	3.50	28.57

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	30.97M	28.12	40.00	-11.88	-4.89	3	Horizontal	114	3.00	-	33.01	23.40	0.20	28.49
PK	37.76M	28.44	40.00	-11.56	-7.93	3	Horizontal	238	3.00	-	36.37	20.29	0.26	28.48
PK	384.05M	34.76	46.00	-11.24	-5.68	3	Horizontal	249	1.00	"Worst"	40.44	20.74	2.04	28.46
PK	915M	32.39	46.00	-13.61	0.56	3	Horizontal	244	1.00	-	31.83	25.72	3.50	28.66
PK	931.13M	32.61	46.00	-13.39	0.66	3	Horizontal	55	1.25	-	31.95	25.78	3.50	28.62
PK	960M	32.10	46.00	-13.90	0.95	3	Horizontal	283	1.00	-	31.15	25.94	3.54	28.53

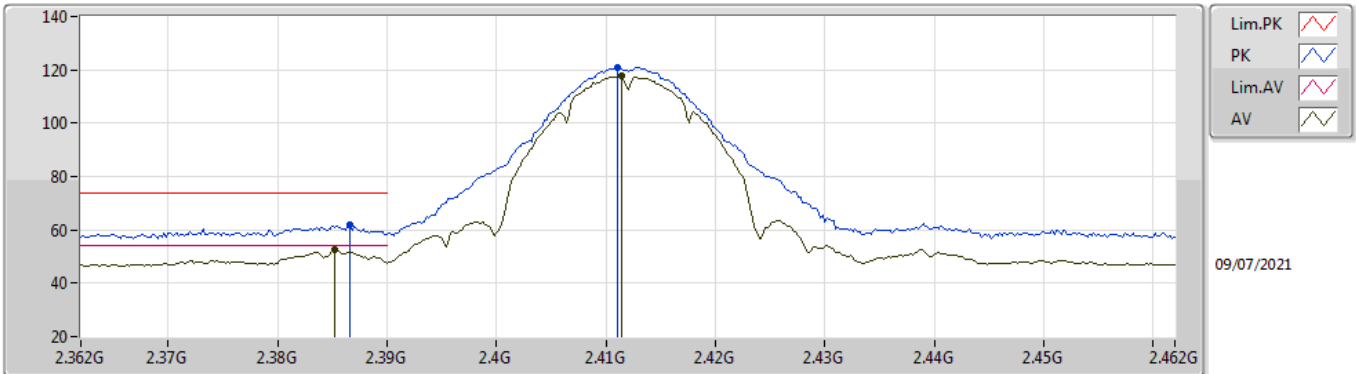


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.4888G	53.23	54.00	-0.77	3	Vertical	131	1.41	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

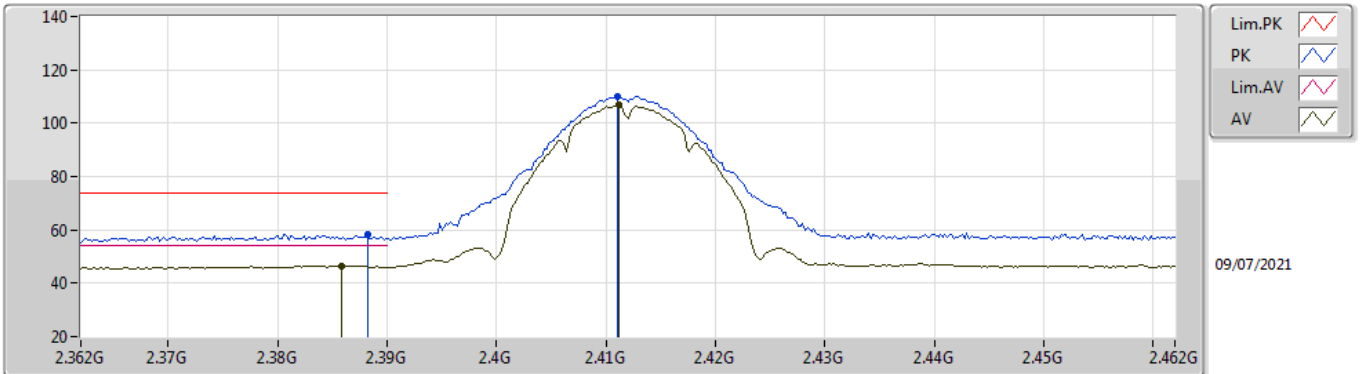


EUT_Z_2TX
Setting 24
01-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3866G	61.73	74.00	-12.27	32.17	3	Vertical	125	1.90	-	27.37	2.19	-
AV	2.3852G	52.40	54.00	-1.60	22.84	3	Vertical	125	1.90	-	27.37	2.19	-
PK	2.411G	121.09	Inf	-Inf	91.46	3	Vertical	125	1.90	-	27.42	2.21	-
AV	2.4114G	117.68	Inf	-Inf	88.05	3	Vertical	125	1.90	-	27.42	2.21	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

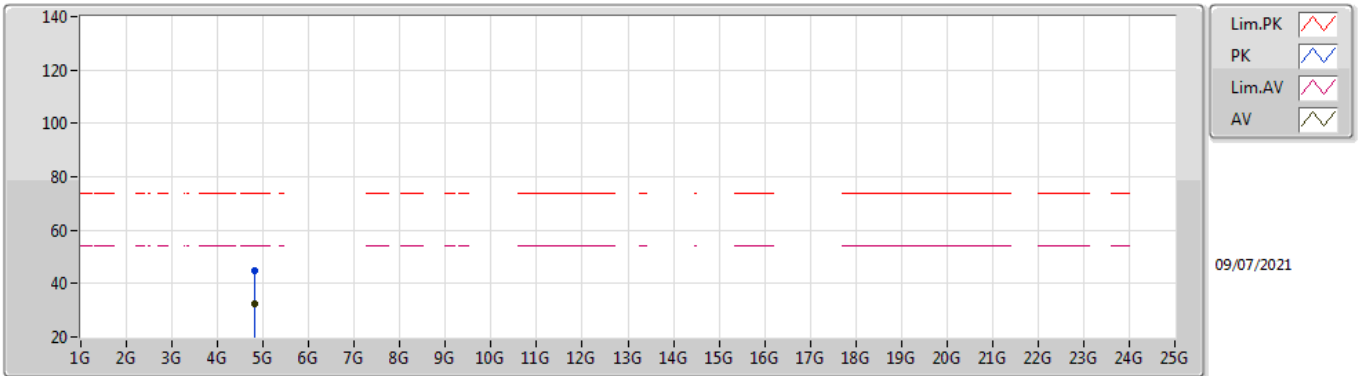


EUT_Z_2TX
Setting 24
01-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	58.35	74.00	-15.65	28.78	3	Horizontal	282	1.00	-	27.38	2.19	-
AV	2.3858G	46.57	54.00	-7.43	17.01	3	Horizontal	282	1.00	-	27.37	2.19	-
PK	2.411G	110.06	Inf	-Inf	80.43	3	Horizontal	282	1.00	-	27.42	2.21	-
AV	2.4112G	106.65	Inf	-Inf	77.02	3	Horizontal	282	1.00	-	27.42	2.21	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

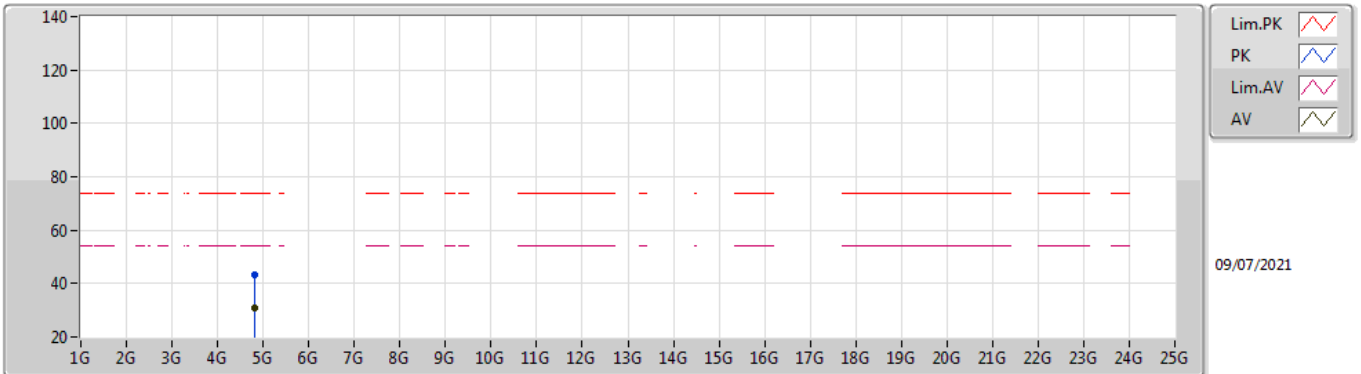


EUT_Z_2TX
Setting 24
01-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.82401G	44.84	74.00	-29.16	41.77	3	Vertical	139	1.04	-	32.24	3.81	32.98	
AV	4.82399G	32.30	54.00	-21.70	29.23	3	Vertical	139	1.04	-	32.24	3.81	32.98	

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

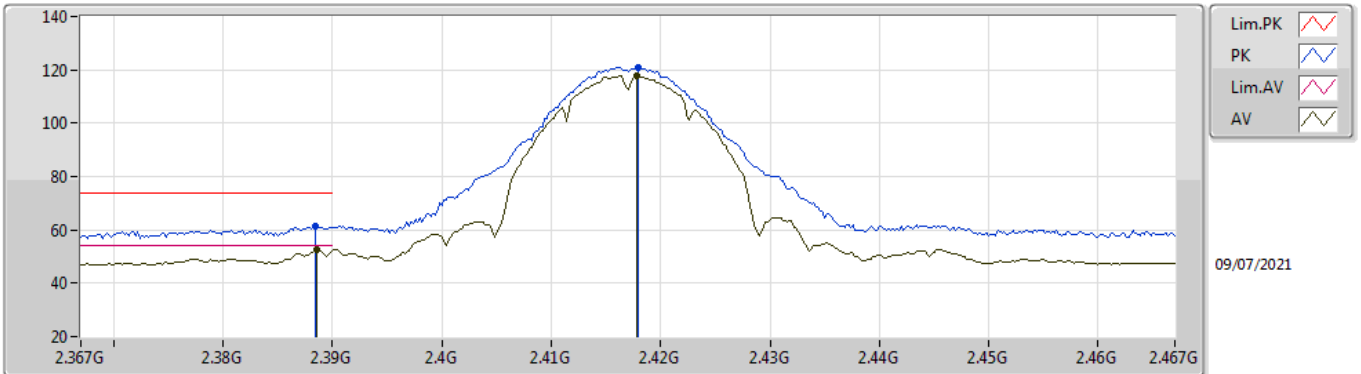


EUT_Z_2TX
Setting 24
01-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82364G	43.33	74.00	-30.67	40.26	3	Horizontal	207	1.04	-	32.24	3.81	32.98
AV	4.82423G	30.78	54.00	-23.22	27.70	3	Horizontal	207	1.04	-	32.25	3.81	32.98

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

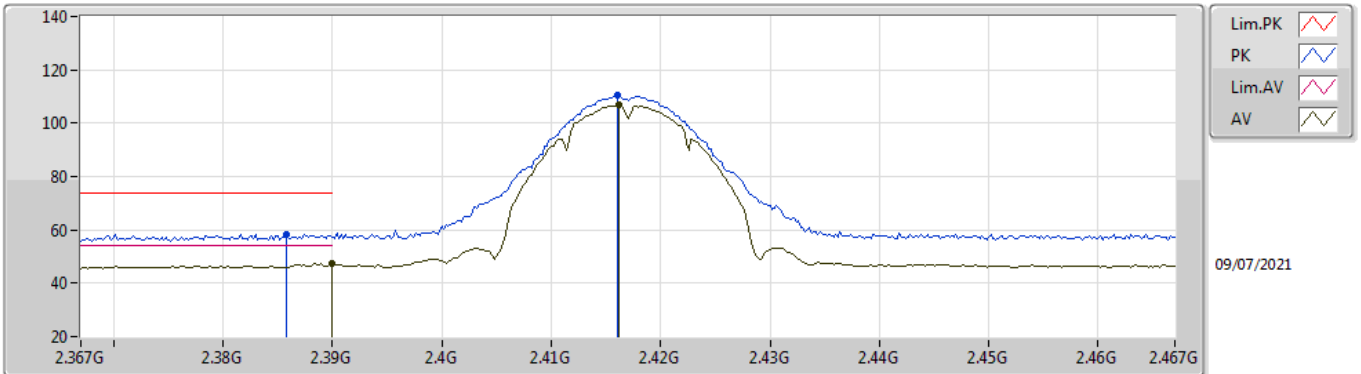


EUT_Z_2TX
Setting 24.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3884G	61.57	74.00	-12.43	32.00	3	Vertical	126	1.80	-	27.38	2.19	-	
AV	2.3886G	52.76	54.00	-1.24	23.19	3	Vertical	126	1.80	-	27.38	2.19	-	
PK	2.418G	121.10	Inf	-Inf	91.44	3	Vertical	126	1.80	-	27.44	2.22	-	
AV	2.4178G	117.68	Inf	-Inf	88.02	3	Vertical	126	1.80	-	27.44	2.22	-	

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

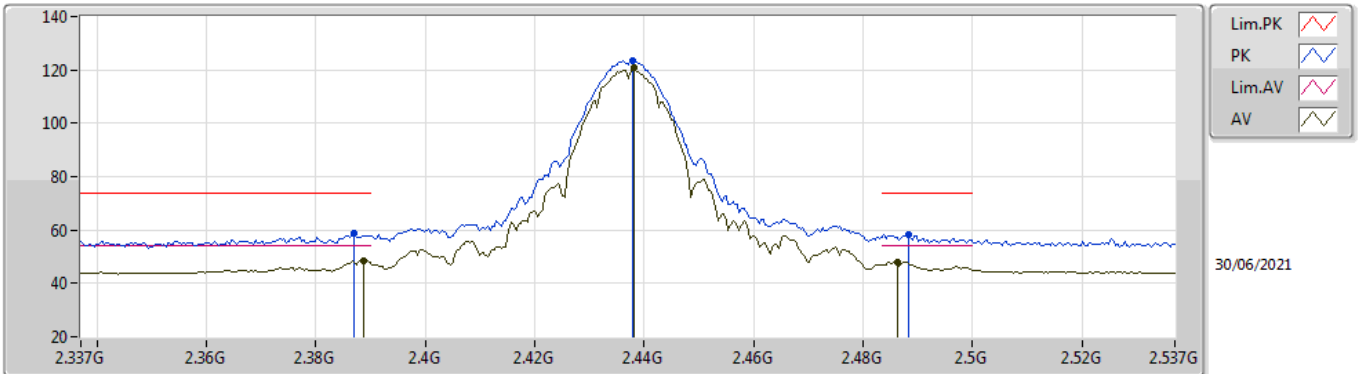


EUT_Z_2TX
Setting 24.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3858G	58.35	74.00	-15.65	28.79	3	Horizontal	282	1.04	-	27.37	2.19	-
AV	2.39G	47.31	54.00	-6.69	17.74	3	Horizontal	282	1.04	-	27.38	2.19	-
PK	2.416G	110.30	Inf	-Inf	80.65	3	Horizontal	282	1.04	-	27.43	2.22	-
AV	2.4162G	106.83	Inf	-Inf	77.18	3	Horizontal	282	1.04	-	27.43	2.22	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

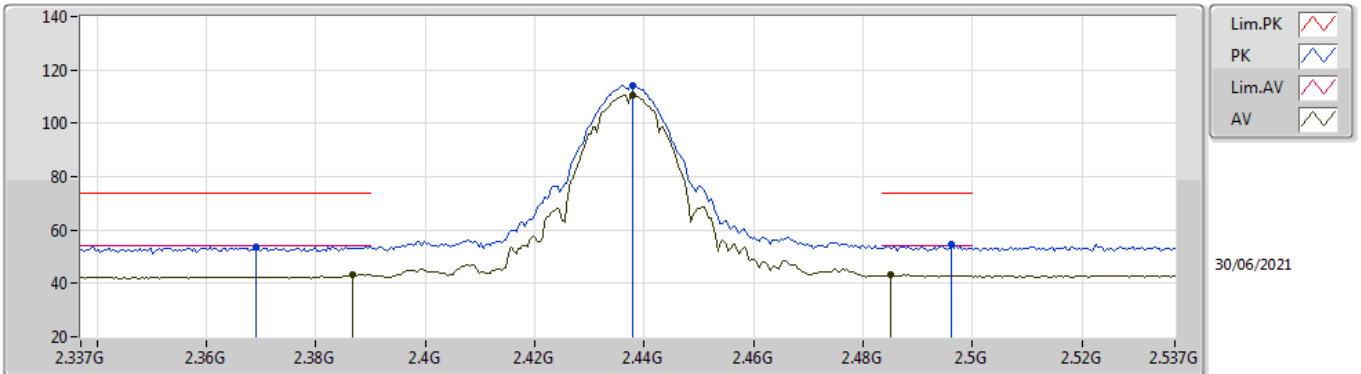


EUT_Z_2TX
Setting 27
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	58.67	74.00	-15.33	29.11	3	Vertical	226	1.66	-	27.37	2.19	-
AV	2.3886G	48.44	54.00	-5.56	18.87	3	Vertical	226	1.66	-	27.38	2.19	-
PK	2.4378G	123.59	Inf	-Inf	93.87	3	Vertical	226	1.66	-	27.48	2.24	-
AV	2.4382G	121.03	Inf	-Inf	91.31	3	Vertical	226	1.66	-	27.48	2.24	-
PK	2.4882G	58.08	74.00	-15.92	28.06	3	Vertical	226	1.66	-	27.73	2.29	-
AV	2.4862G	47.80	54.00	-6.20	17.79	3	Vertical	226	1.66	-	27.72	2.29	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

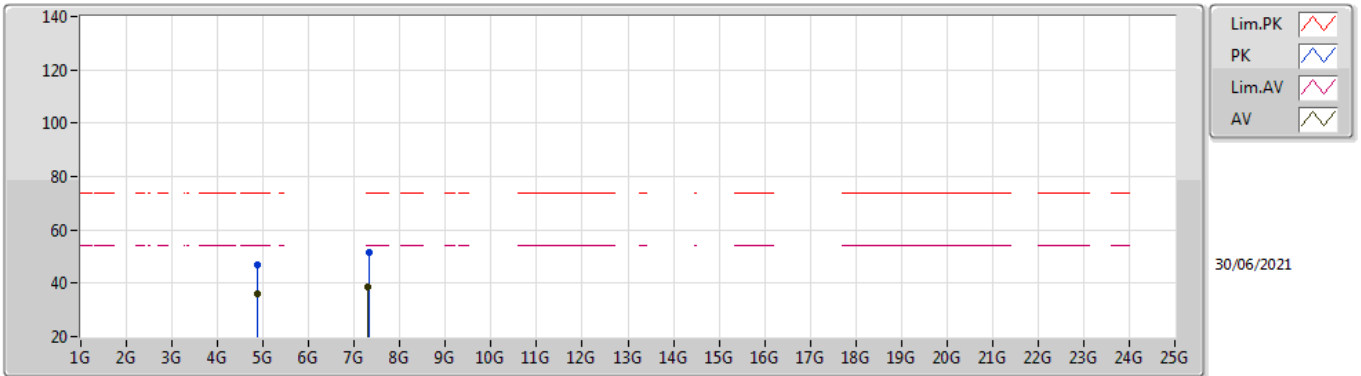


EUT_Z_2TX
Setting 27
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.369G	53.77	74.00	-20.23	24.26	3	Horizontal	21	1.74	-	27.34	2.17	-	
AV	2.3866G	43.48	54.00	-10.52	13.92	3	Horizontal	21	1.74	-	27.37	2.19	-	
PK	2.4378G	114.39	Inf	-Inf	84.67	3	Horizontal	21	1.74	-	27.48	2.24	-	
AV	2.4378G	110.64	Inf	-Inf	80.92	3	Horizontal	21	1.74	-	27.48	2.24	-	
PK	2.4962G	54.61	74.00	-19.39	24.53	3	Horizontal	21	1.74	-	27.78	2.30	-	
AV	2.485G	43.22	54.00	-10.78	13.22	3	Horizontal	21	1.74	-	27.71	2.29	-	

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

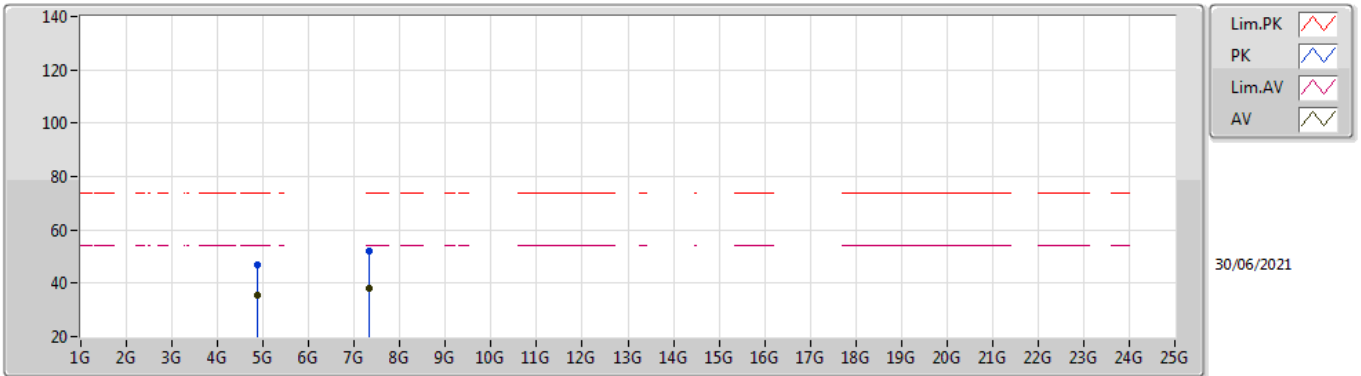


EUT_Z_2TX
Setting 27
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87408G	47.12	74.00	-26.88	42.61	3	Vertical	261	2.90	-	32.45	5.04	32.98
AV	4.87397G	35.95	54.00	-18.05	31.44	3	Vertical	261	2.90	-	32.45	5.04	32.98
PK	7.3145G	51.57	74.00	-22.43	41.18	3	Vertical	360	2.99	-	37.16	6.31	33.08
AV	7.30962G	38.47	54.00	-15.53	28.10	3	Vertical	360	2.99	-	37.14	6.31	33.08

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

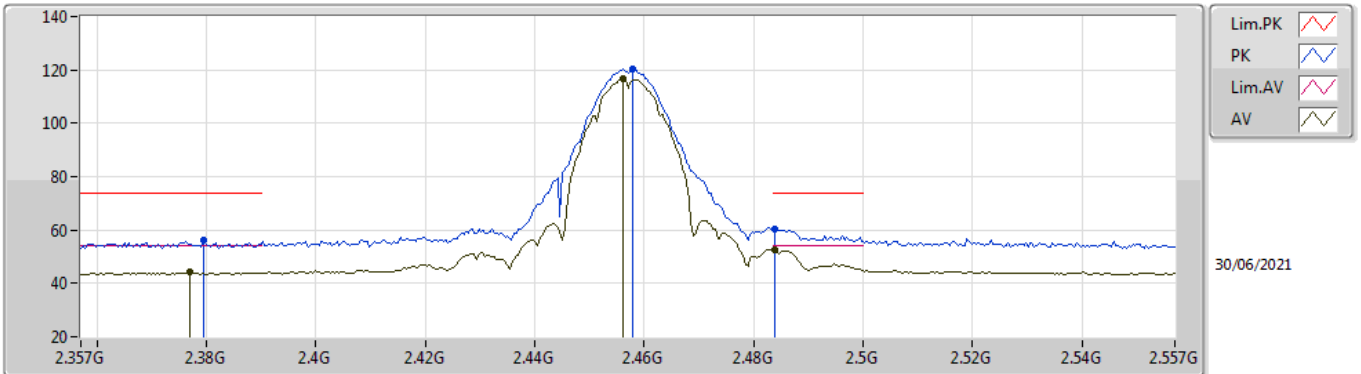


EUT_Z_2TX
Setting 27
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87076G	46.98	74.00	-27.02	42.48	3	Horizontal	251	1.80	-	32.44	5.04	32.98
AV	4.87378G	35.31	54.00	-18.69	30.80	3	Horizontal	251	1.80	-	32.45	5.04	32.98
PK	7.31228G	51.84	74.00	-22.16	41.46	3	Horizontal	308	1.00	-	37.15	6.31	33.08
AV	7.31518G	38.24	54.00	-15.76	27.84	3	Horizontal	308	1.00	-	37.16	6.32	33.08

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

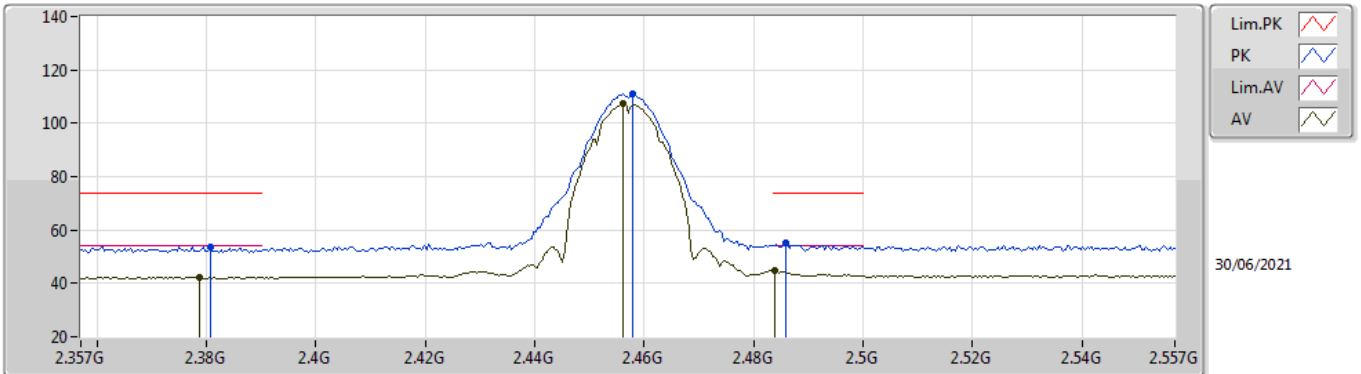


EUT_Z_2TX
Setting 23.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3794G	56.14	74.00	-17.86	26.60	3	Vertical	228	1.98	-	27.36	2.18	-
AV	2.377G	44.13	54.00	-9.87	14.60	3	Vertical	228	1.98	-	27.35	2.18	-
PK	2.4578G	120.28	Inf	-Inf	90.47	3	Vertical	228	1.98	-	27.55	2.26	-
AV	2.4562G	116.60	Inf	-Inf	86.80	3	Vertical	228	1.98	-	27.54	2.26	-
PK	2.4838G	60.26	74.00	-13.74	30.28	3	Vertical	228	1.98	-	27.70	2.28	-
AV	2.4838G	52.71	54.00	-1.29	22.73	3	Vertical	228	1.98	-	27.70	2.28	-

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

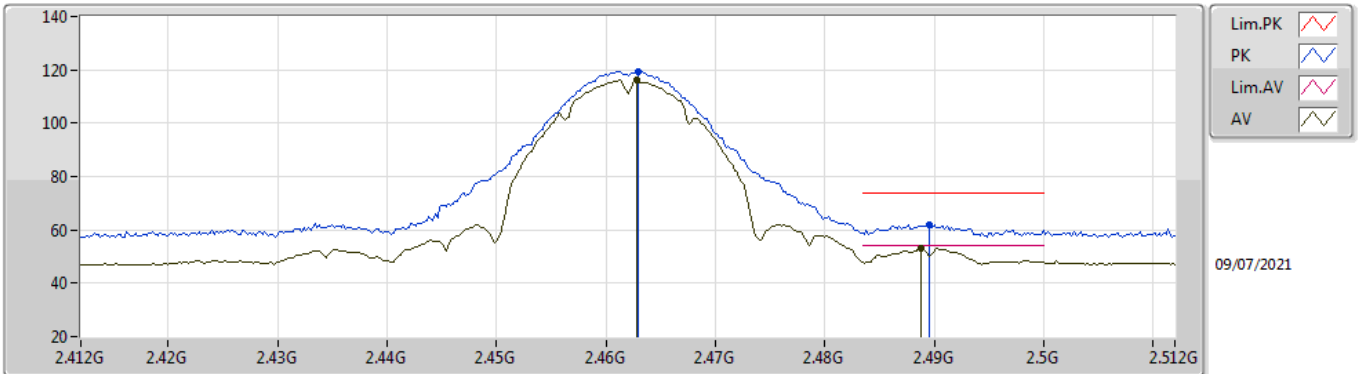


EUT_Z_2TX
Setting 23.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3806G	53.76	74.00	-20.24	24.22	3	Horizontal	20	1.95	-	27.36	2.18	-
AV	2.3786G	42.43	54.00	-11.57	12.89	3	Horizontal	20	1.95	-	27.36	2.18	-
PK	2.4578G	110.93	Inf	-Inf	81.12	3	Horizontal	20	1.95	-	27.55	2.26	-
AV	2.4562G	107.58	Inf	-Inf	77.78	3	Horizontal	20	1.95	-	27.54	2.26	-
PK	2.4858G	55.10	74.00	-18.90	25.10	3	Horizontal	20	1.95	-	27.71	2.29	-
AV	2.4838G	44.79	54.00	-9.21	14.81	3	Horizontal	20	1.95	-	27.70	2.28	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

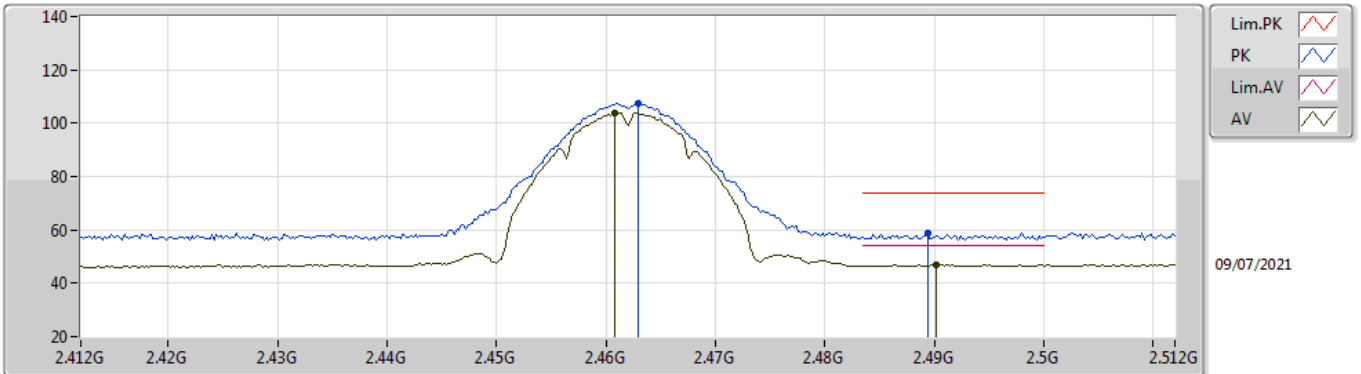


EUT_Z_2TX
Setting 23
01-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.463G	119.45	Inf	-Inf	89.61	3	Vertical	131	1.41	-	27.58	2.26	-	
AV	2.4628G	116.42	Inf	-Inf	86.58	3	Vertical	131	1.41	-	27.58	2.26	-	
PK	2.4896G	62.04	74.00	-11.96	32.01	3	Vertical	131	1.41	-	27.74	2.29	-	
AV	2.4888G	53.23	54.00	-0.77	23.21	3	Vertical	131	1.41	-	27.73	2.29	-	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

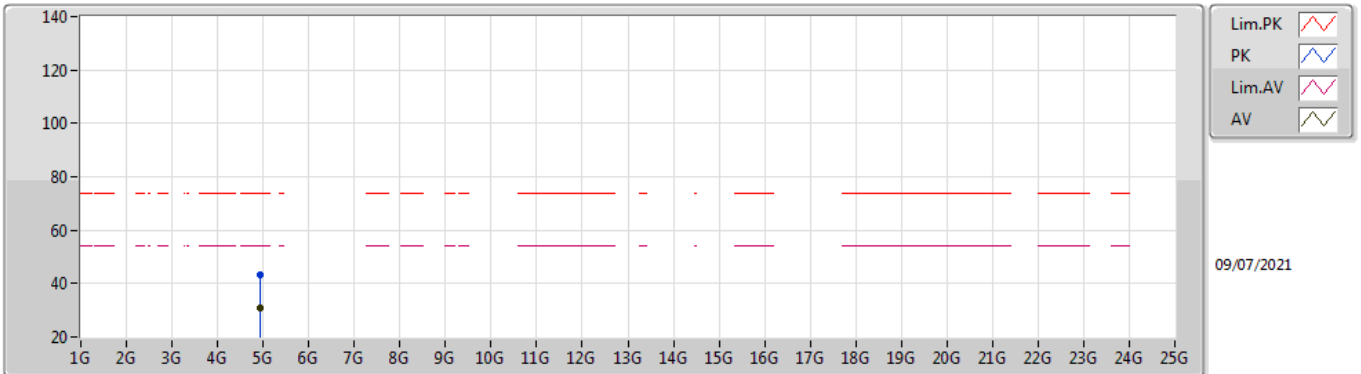


EUT_Z_TX
Setting 23
01-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.463G	107.34	Inf	-Inf	77.50	3	Horizontal	291	1.32	-	27.58	2.26	-	
AV	2.4608G	103.95	Inf	-Inf	74.13	3	Horizontal	291	1.32	-	27.56	2.26	-	
PK	2.4894G	58.95	74.00	-15.05	28.92	3	Horizontal	291	1.32	-	27.74	2.29	-	
AV	2.4902G	46.85	54.00	-7.15	16.82	3	Horizontal	291	1.32	-	27.74	2.29	-	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

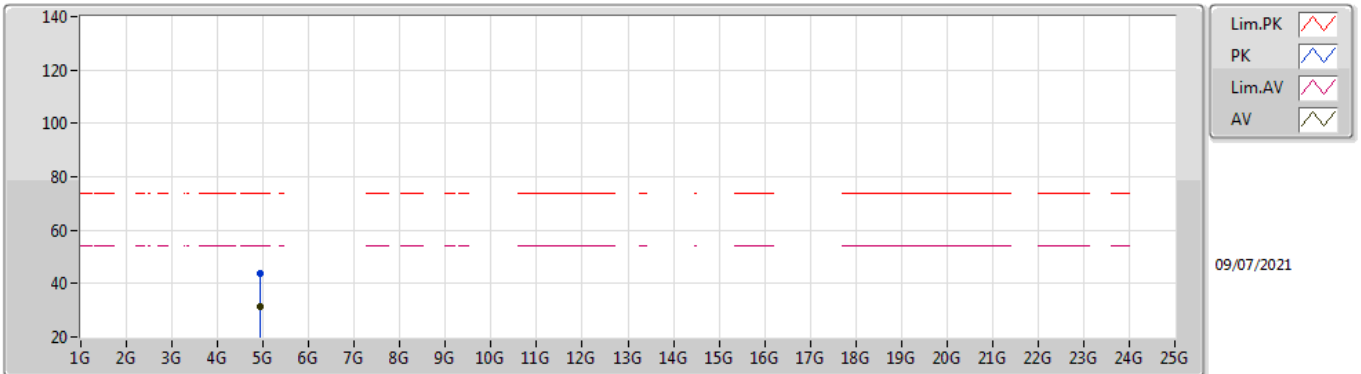


EUT_Z_2TX
Setting 23
01-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92396G	43.03	74.00	-30.97	39.50	3	Vertical	163	2.55	-	32.64	3.86	32.97
AV	4.92438G	31.05	54.00	-22.95	27.51	3	Vertical	163	2.55	-	32.65	3.86	32.97

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

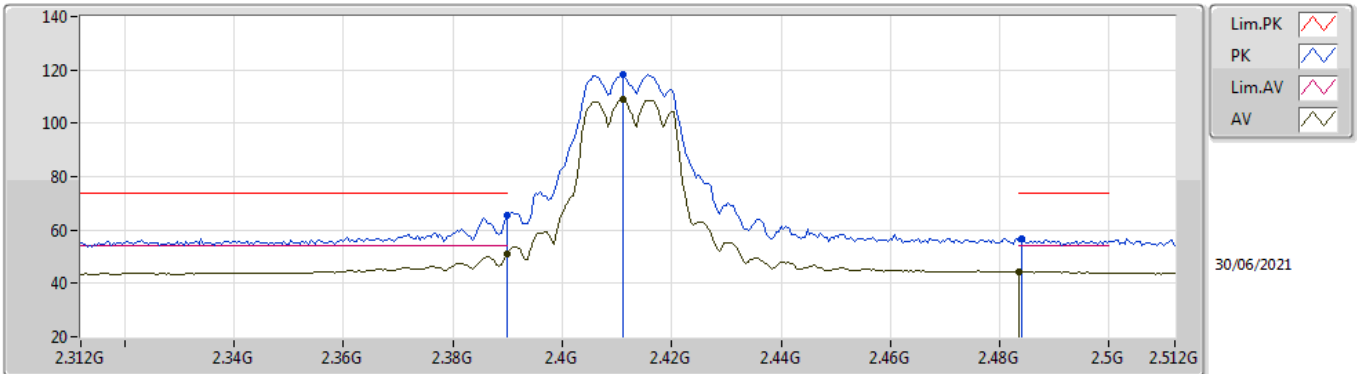


EUT_Z_2TX
Setting 23
01-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.92307G	44.02	74.00	-29.98	40.49	3	Horizontal	267	1.69	-	32.64	3.86	32.97	
AV	4.9242G	31.15	54.00	-22.85	27.61	3	Horizontal	267	1.69	-	32.65	3.86	32.97	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

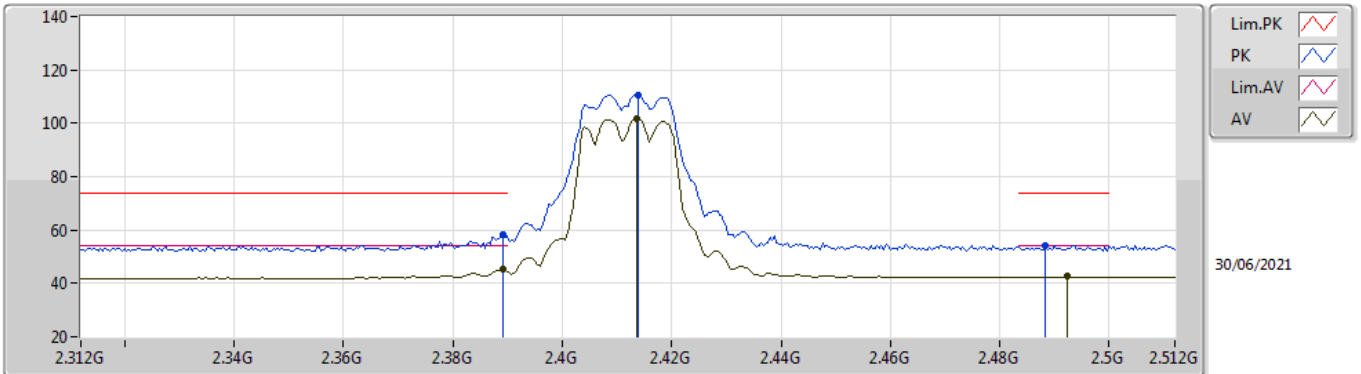


EUT_Z_2TX
Setting 21
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.39G	65.71	74.00	-8.29	36.14	3	Vertical	241	1.89	-	27.38	2.19	-	
AV	2.39G	51.29	54.00	-2.71	21.72	3	Vertical	241	1.89	-	27.38	2.19	-	
PK	2.4112G	118.19	Inf	-Inf	88.56	3	Vertical	241	1.89	-	27.42	2.21	-	
AV	2.4112G	108.71	Inf	-Inf	79.08	3	Vertical	241	1.89	-	27.42	2.21	-	
PK	2.484G	56.82	74.00	-17.18	26.84	3	Vertical	241	1.89	-	27.70	2.28	-	
AV	2.4835G	44.45	54.00	-9.55	14.47	3	Vertical	241	1.89	-	27.70	2.28	-	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

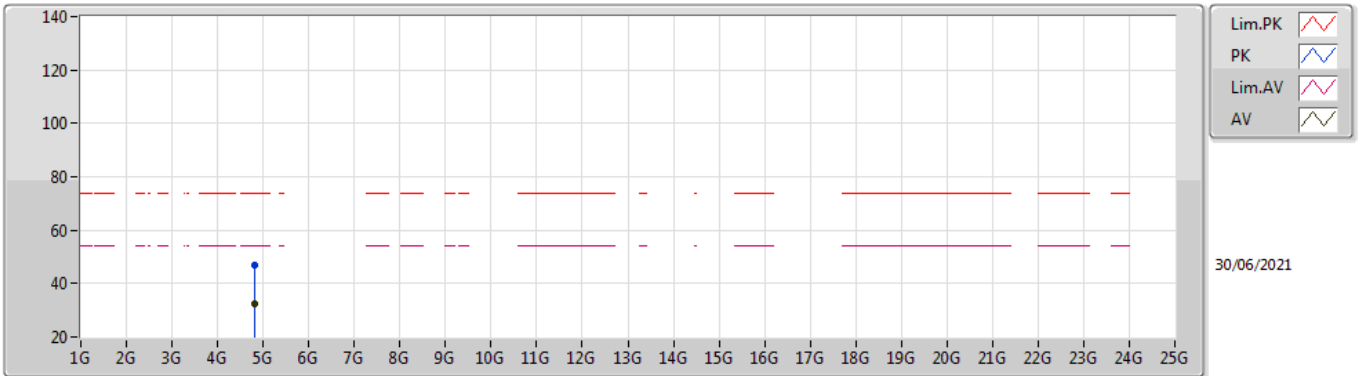


EUT_Z_2TX
Setting 21
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3892G	58.07	74.00	-15.93	28.50	3	Horizontal	29	1.94	-	27.38	2.19	-	
AV	2.3892G	45.33	54.00	-8.67	15.76	3	Horizontal	29	1.94	-	27.38	2.19	-	
PK	2.414G	110.72	Inf	-Inf	81.08	3	Horizontal	29	1.94	-	27.43	2.21	-	
AV	2.4136G	101.57	Inf	-Inf	71.93	3	Horizontal	29	1.94	-	27.43	2.21	-	
PK	2.4884G	54.13	74.00	-19.87	24.11	3	Horizontal	29	1.94	-	27.73	2.29	-	
AV	2.4924G	42.56	54.00	-11.44	12.52	3	Horizontal	29	1.94	-	27.75	2.29	-	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

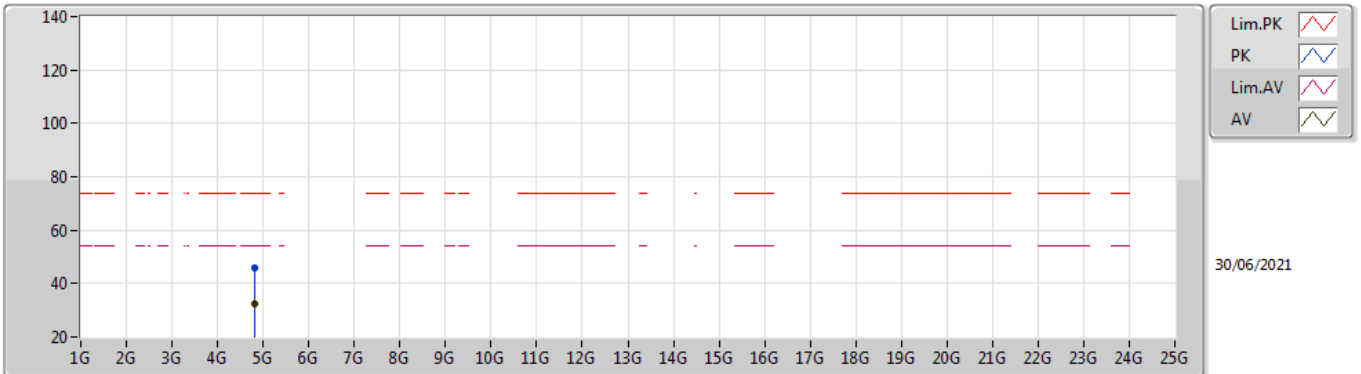


EUT_Z_2TX
Setting 21
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.825G	46.80	74.00	-27.20	42.52	3	Vertical	14	1.80	-	32.25	5.01	32.98
AV	4.82652G	32.66	54.00	-21.34	28.37	3	Vertical	14	1.80	-	32.26	5.01	32.98

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

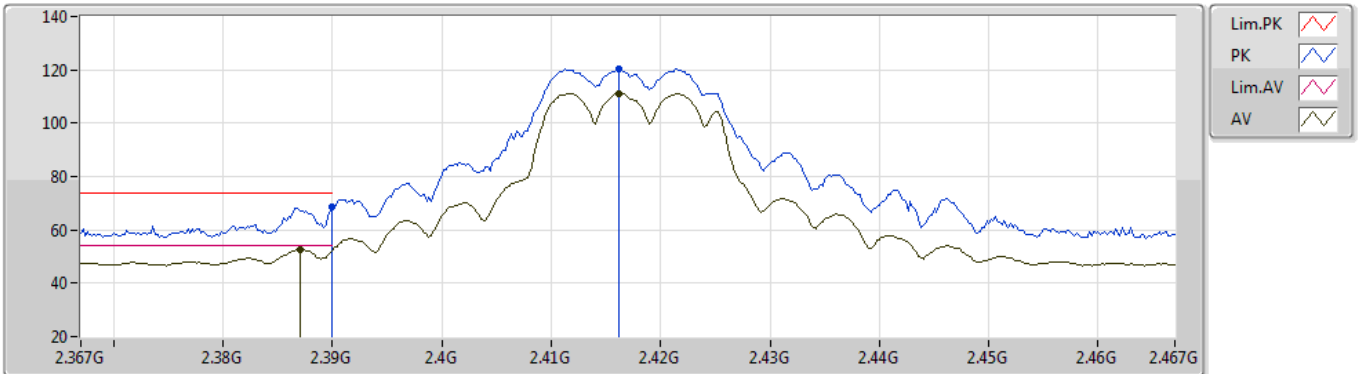


EUT_Z_2TX
Setting 21
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82846G	45.95	74.00	-28.05	41.65	3	Horizontal	210	1.49	-	32.27	5.01	32.98
AV	4.8278G	32.58	54.00	-21.42	28.28	3	Horizontal	210	1.49	-	32.27	5.01	32.98

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

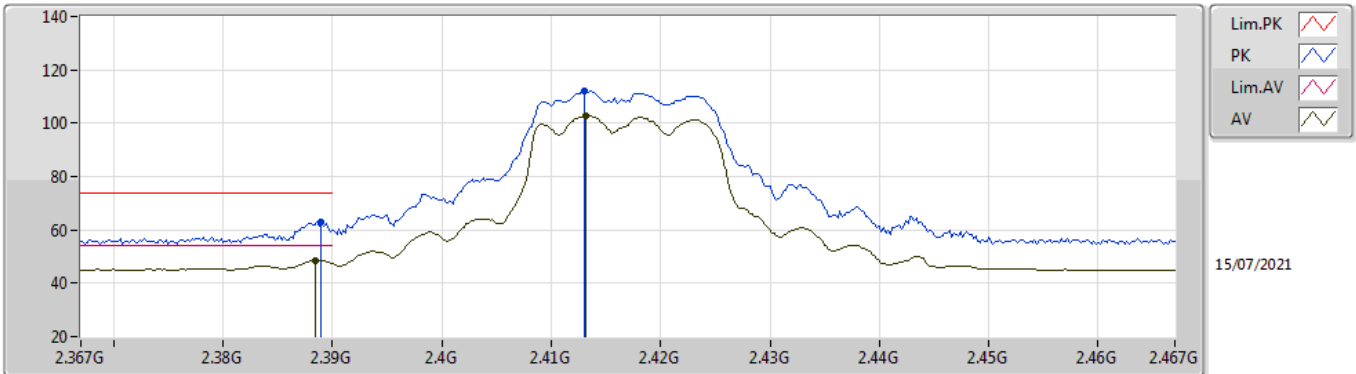


EUT_Z_2TX
Setting 23
03-C-K-5

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	68.82	74.00	-5.18	37.01	3	Vertical	232	1.86	-	28.32	3.49	-
AV	2.387G	52.74	54.00	-1.26	20.92	3	Vertical	232	1.86	-	28.33	3.49	-
PK	2.4162G	120.58	Inf	-Inf	88.73	3	Vertical	232	1.86	-	28.33	3.52	-
AV	2.4162G	111.08	Inf	-Inf	79.23	3	Vertical	232	1.86	-	28.33	3.52	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

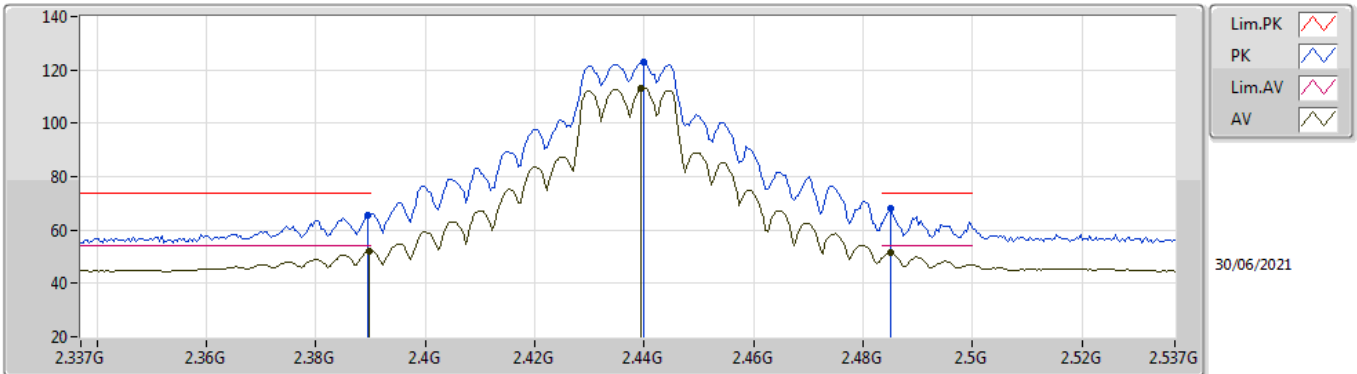


EUT_Z_2TX
Setting 23
03-C-K-5

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	62.84	74.00	-11.16	31.03	3	Horizontal	19	2.06	-	28.32	3.49	-	
AV	2.3884G	48.66	54.00	-5.34	16.85	3	Horizontal	19	2.06	-	28.32	3.49	-	
PK	2.413G	112.02	Inf	-Inf	80.18	3	Horizontal	19	2.06	-	28.33	3.51	-	
AV	2.4132G	102.71	Inf	-Inf	70.87	3	Horizontal	19	2.06	-	28.33	3.51	-	

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

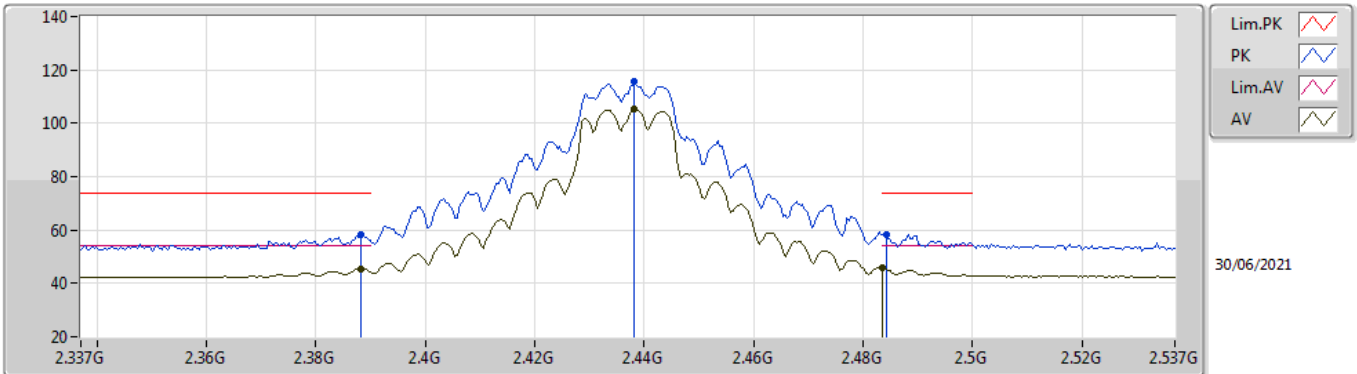


EUT_Z_2TX
Setting 26
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	65.33	74.00	-8.67	35.76	3	Vertical	257	1.80	-	27.38	2.19	-
AV	2.3898G	51.88	54.00	-2.12	22.31	3	Vertical	257	1.80	-	27.38	2.19	-
PK	2.4398G	122.79	Inf	-Inf	93.07	3	Vertical	257	1.80	-	27.48	2.24	-
AV	2.4394G	113.18	Inf	-Inf	83.46	3	Vertical	257	1.80	-	27.48	2.24	-
PK	2.485G	68.09	74.00	-5.91	38.09	3	Vertical	257	1.80	-	27.71	2.29	-
AV	2.485G	51.38	54.00	-2.62	21.38	3	Vertical	257	1.80	-	27.71	2.29	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

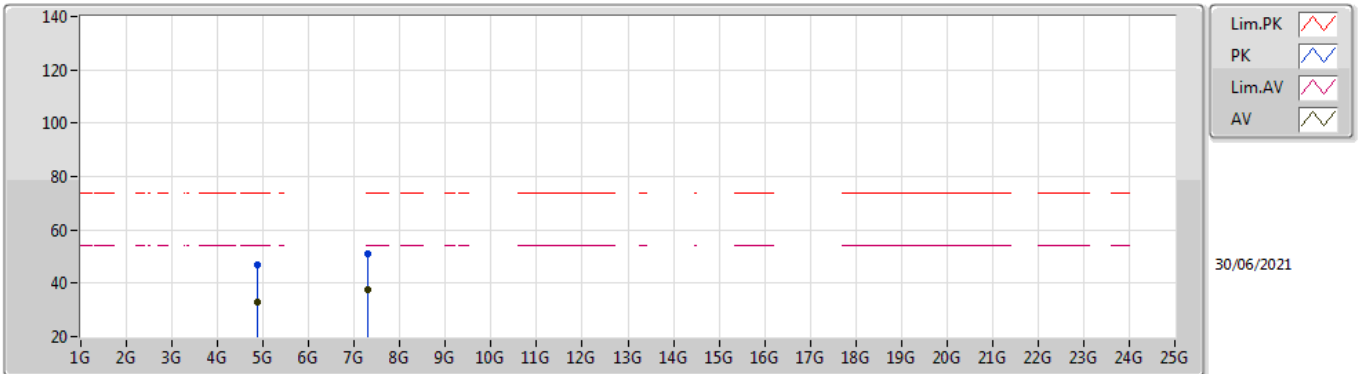


EUT_Z_2TX
Setting 26
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	58.15	74.00	-15.85	28.58	3	Horizontal	24	1.54	-	27.38	2.19	-
AV	2.3882G	45.57	54.00	-8.43	16.00	3	Horizontal	24	1.54	-	27.38	2.19	-
PK	2.4382G	115.55	Inf	-Inf	85.83	3	Horizontal	24	1.54	-	27.48	2.24	-
AV	2.4382G	105.15	Inf	-Inf	75.43	3	Horizontal	24	1.54	-	27.48	2.24	-
PK	2.4842G	58.40	74.00	-15.60	28.41	3	Horizontal	24	1.54	-	27.71	2.28	-
AV	2.4835G	45.87	54.00	-8.13	15.89	3	Horizontal	24	1.54	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

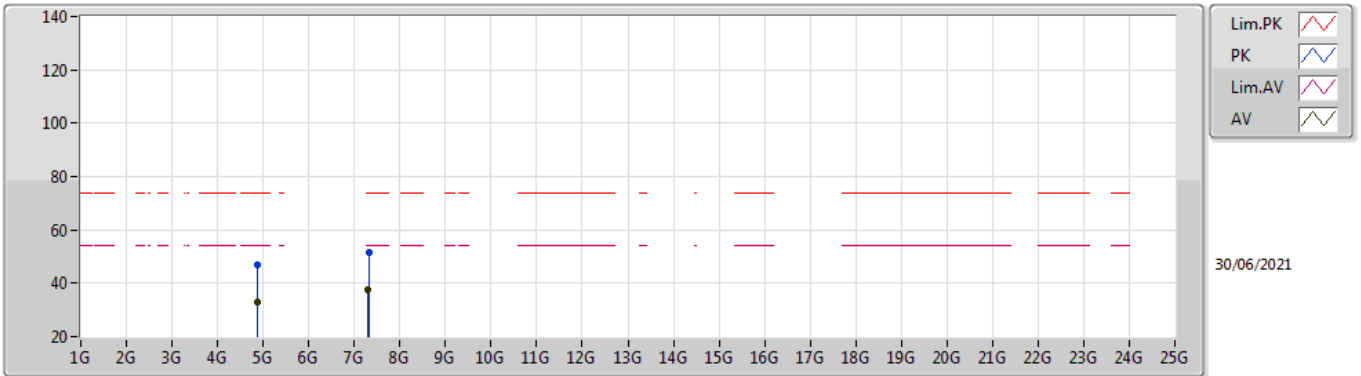


EUT_Z_2TX
Setting 26
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87268G	46.72	74.00	-27.28	42.21	3	Vertical	83	2.96	-	32.45	5.04	32.98
AV	4.87078G	33.13	54.00	-20.87	28.63	3	Vertical	83	2.96	-	32.44	5.04	32.98
PK	7.30224G	51.00	74.00	-23.00	40.67	3	Vertical	360	1.80	-	37.11	6.30	33.08
AV	7.301G	37.63	54.00	-16.37	27.31	3	Vertical	360	1.80	-	37.10	6.30	33.08

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

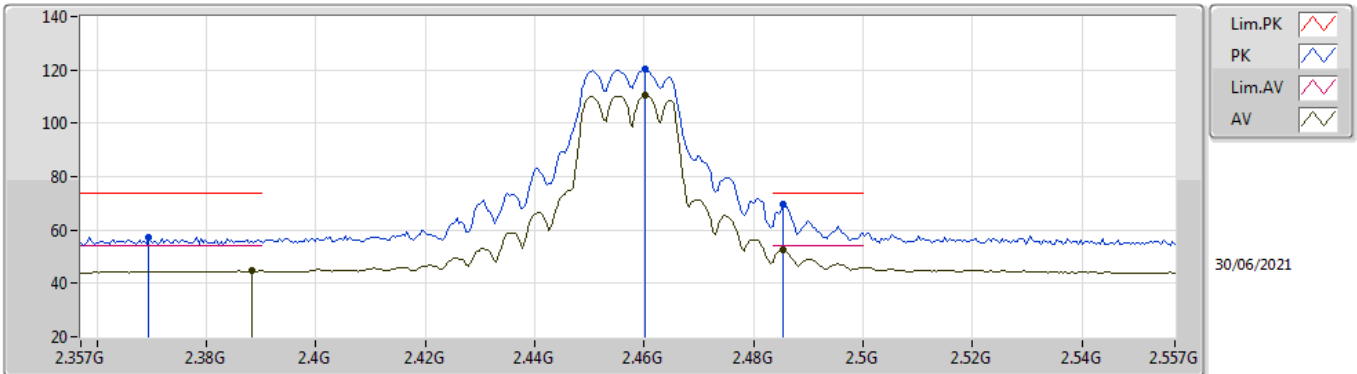


EUT_Z_2TX
Setting 26
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87376G	46.77	74.00	-27.23	42.26	3	Horizontal	219	1.94	-	32.45	5.04	32.98
AV	4.87574G	33.10	54.00	-20.90	28.59	3	Horizontal	219	1.94	-	32.45	5.04	32.98
PK	7.31328G	51.42	74.00	-22.58	41.04	3	Horizontal	98	1.80	-	37.15	6.31	33.08
AV	7.30204G	37.55	54.00	-16.45	27.22	3	Horizontal	98	1.80	-	37.11	6.30	33.08

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

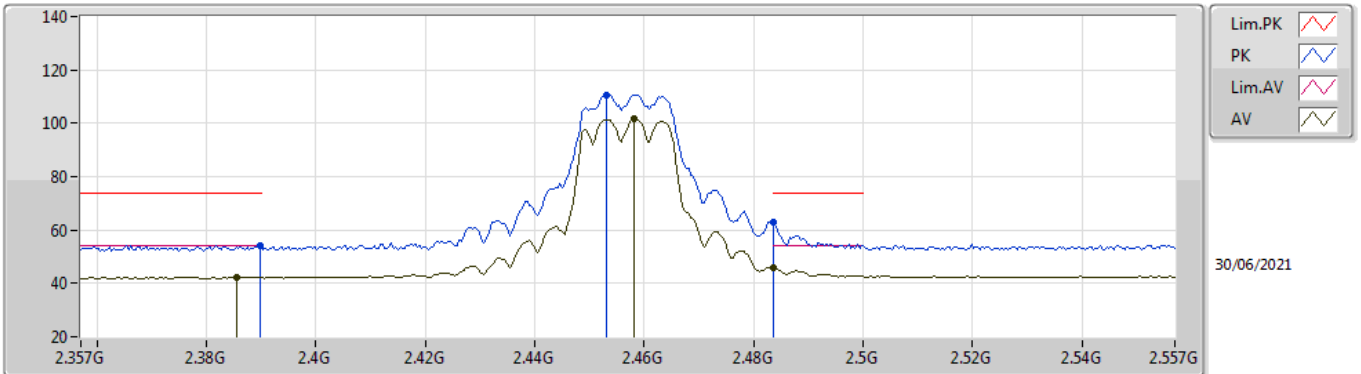


EUT_Z_2TX
Setting 22.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3694G	57.32	74.00	-16.68	27.81	3	Vertical	248	1.77	-	27.34	2.17	-
AV	2.3882G	44.67	54.00	-9.33	15.10	3	Vertical	248	1.77	-	27.38	2.19	-
PK	2.4602G	120.18	Inf	-Inf	90.36	3	Vertical	248	1.77	-	27.56	2.26	-
AV	2.4602G	110.66	Inf	-Inf	80.84	3	Vertical	248	1.77	-	27.56	2.26	-
PK	2.4854G	69.56	74.00	-4.44	39.56	3	Vertical	248	1.77	-	27.71	2.29	-
AV	2.4854G	52.42	54.00	-1.58	22.42	3	Vertical	248	1.77	-	27.71	2.29	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

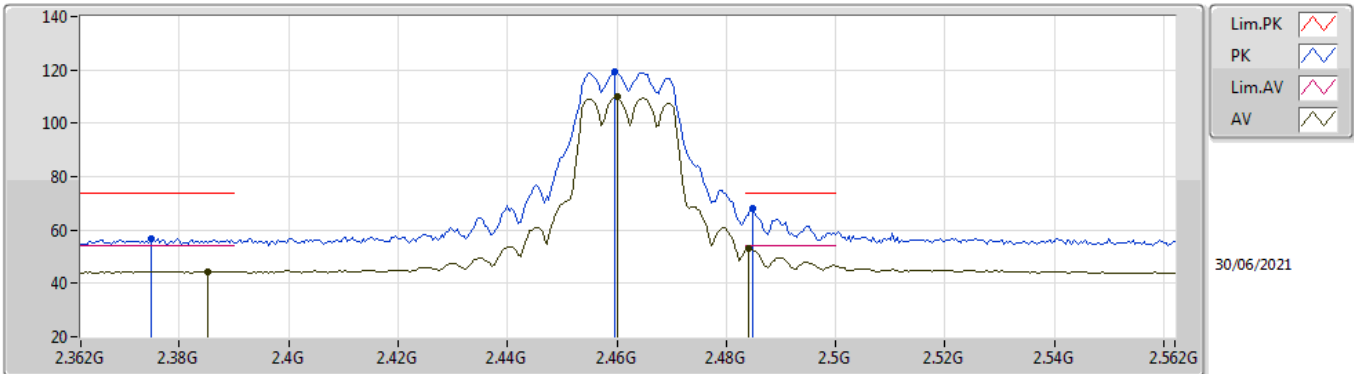


EUT_Z_2TX
Setting 22.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	54.13	74.00	-19.87	24.56	3	Horizontal	20	1.80	-	27.38	2.19	-
AV	2.3854G	42.23	54.00	-11.77	12.67	3	Horizontal	20	1.80	-	27.37	2.19	-
PK	2.453G	110.77	Inf	-Inf	81.00	3	Horizontal	20	1.80	-	27.52	2.25	-
AV	2.4582G	101.65	Inf	-Inf	71.84	3	Horizontal	20	1.80	-	27.55	2.26	-
PK	2.4835G	62.77	74.00	-11.23	32.79	3	Horizontal	20	1.80	-	27.70	2.28	-
AV	2.4835G	46.02	54.00	-7.98	16.04	3	Horizontal	20	1.80	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

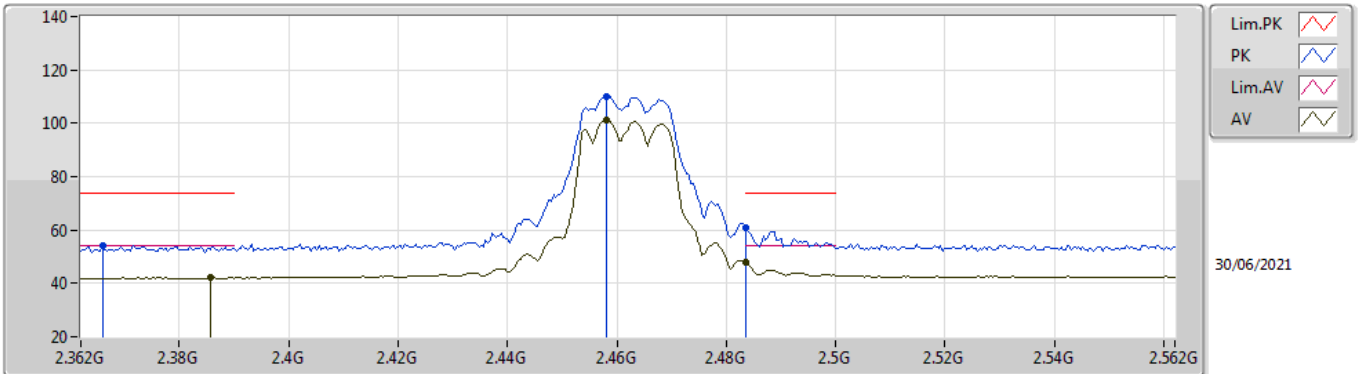


EUT_Z_2TX
Setting 21.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3748G	56.98	74.00	-17.02	27.46	3	Vertical	256	1.77	-	27.35	2.17	-
AV	2.3852G	44.56	54.00	-9.44	15.00	3	Vertical	256	1.77	-	27.37	2.19	-
PK	2.4596G	119.45	Inf	-Inf	89.63	3	Vertical	256	1.77	-	27.56	2.26	-
AV	2.46G	109.75	Inf	-Inf	79.93	3	Vertical	256	1.77	-	27.56	2.26	-
PK	2.4848G	67.93	74.00	-6.07	37.94	3	Vertical	256	1.77	-	27.71	2.28	-
AV	2.484G	52.95	54.00	-1.05	22.97	3	Vertical	256	1.77	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

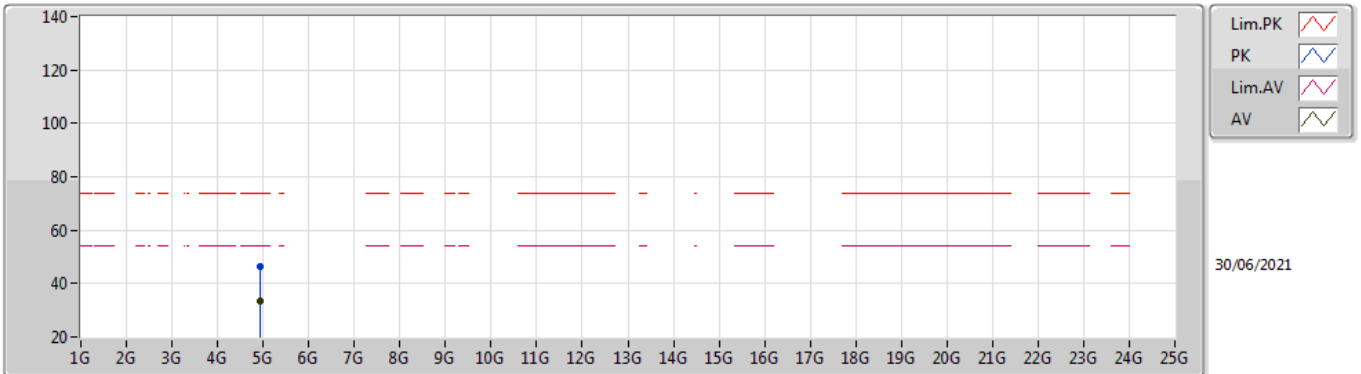


EUT_Z_2TX
Setting 21.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.366G	54.05	74.00	-19.95	24.55	3	Horizontal	22	1.95	-	27.33	2.17	-
AV	2.3856G	42.07	54.00	-11.93	12.51	3	Horizontal	22	1.95	-	27.37	2.19	-
PK	2.458G	110.25	Inf	-Inf	80.44	3	Horizontal	22	1.95	-	27.55	2.26	-
AV	2.458G	100.97	Inf	-Inf	71.16	3	Horizontal	22	1.95	-	27.55	2.26	-
PK	2.4835G	60.96	74.00	-13.04	30.98	3	Horizontal	22	1.95	-	27.70	2.28	-
AV	2.4835G	47.79	54.00	-6.21	17.81	3	Horizontal	22	1.95	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

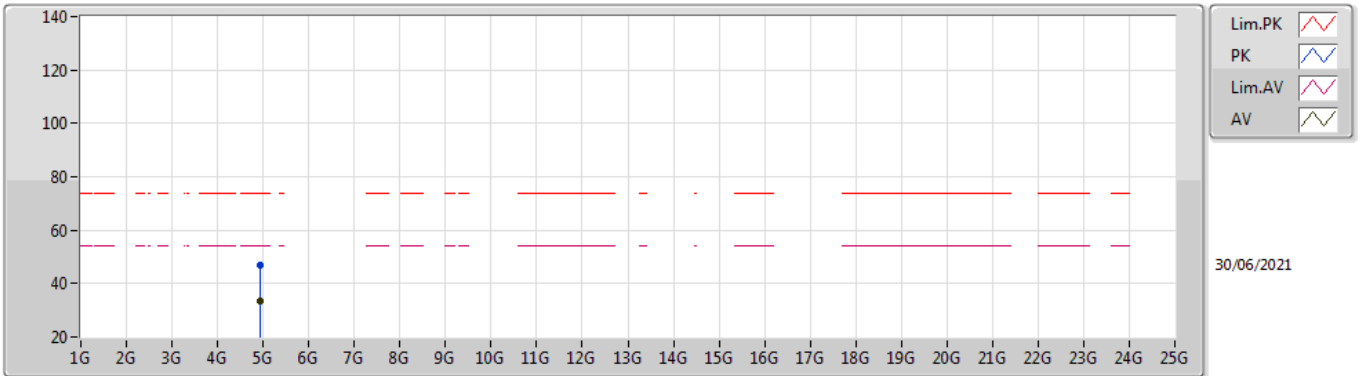


EUT_Z_2TX
Setting 21.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92828G	46.62	74.00	-27.38	41.86	3	Vertical	328	1.80	-	32.67	5.06	32.97
AV	4.92744G	33.34	54.00	-20.66	28.59	3	Vertical	328	1.80	-	32.66	5.06	32.97

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

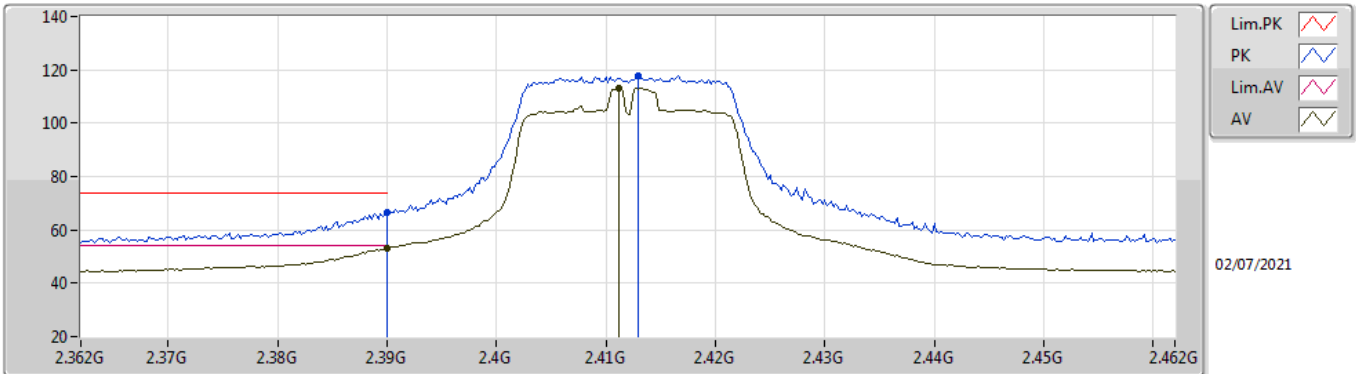


EUT_Z_2TX
Setting 21.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.92806G	46.70	74.00	-27.30	41.94	3	Horizontal	336	1.80	-	32.67	5.06	32.97	
AV	4.9288G	33.23	54.00	-20.77	28.47	3	Horizontal	336	1.80	-	32.67	5.06	32.97	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

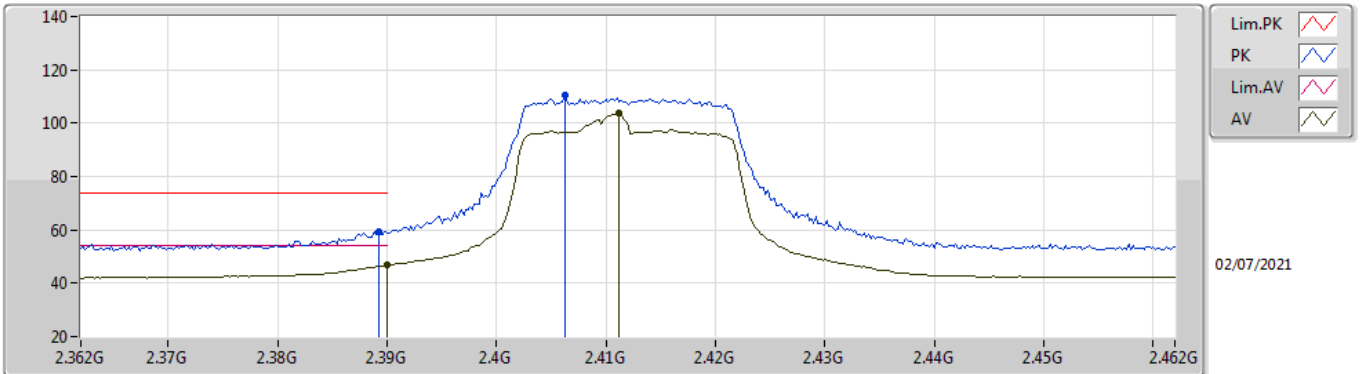


EUT_Z_2TX
Setting 24
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.39G	66.43	74.00	-7.57	36.86	3	Vertical	229	2.19	-	27.38	2.19	-	
AV	2.39G	53.19	54.00	-0.81	23.62	3	Vertical	229	2.19	-	27.38	2.19	-	
PK	2.413G	117.82	Inf	-Inf	88.18	3	Vertical	229	2.19	-	27.43	2.21	-	
AV	2.4112G	113.26	Inf	-Inf	83.63	3	Vertical	229	2.19	-	27.42	2.21	-	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

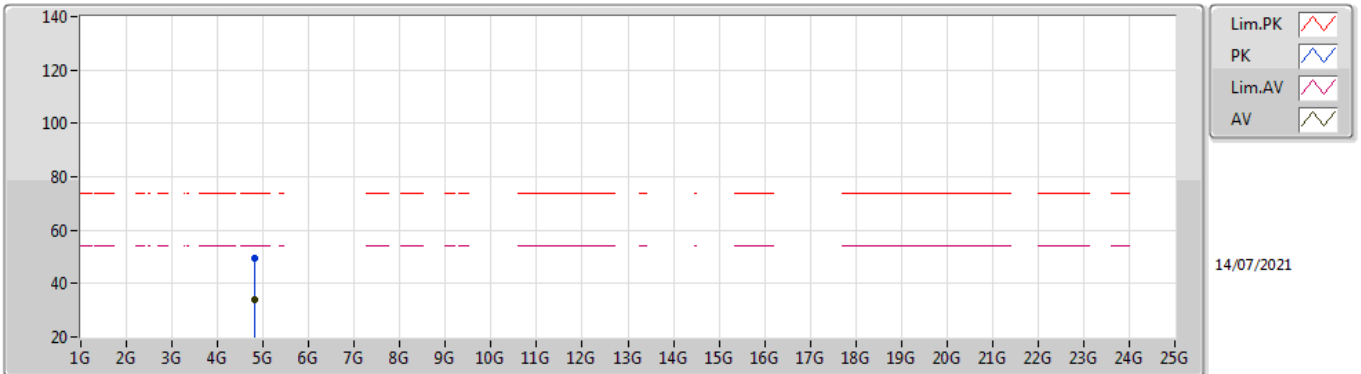


EUT_Z_2TX
Setting 24
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3892G	59.19	74.00	-14.81	29.62	3	Horizontal	24.1	1.80	-	27.38	2.19	-	
AV	2.39G	46.96	54.00	-7.04	17.39	3	Horizontal	24.1	1.80	-	27.38	2.19	-	
PK	2.4062G	110.64	Inf	-Inf	81.02	3	Horizontal	24.1	1.80	-	27.41	2.21	-	
AV	2.4112G	103.80	Inf	-Inf	74.17	3	Horizontal	24.1	1.80	-	27.42	2.21	-	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

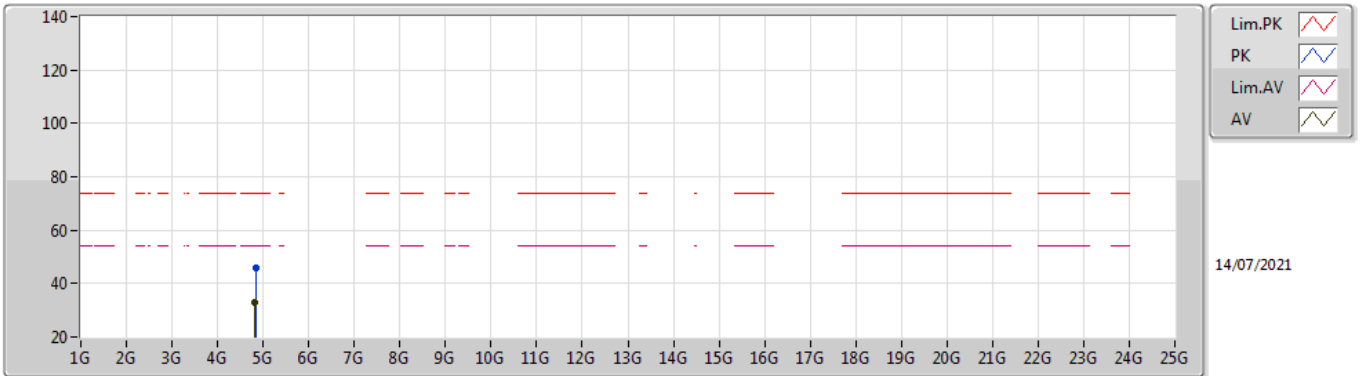


EUT_Z_2TX
Setting 24
03-C-K-5

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	4.82808G	49.35	74.00	-24.65	45.13	3	Vertical	288	1.76	-	33.40	6.24	35.42
AV	4.828G	34.12	54.00	-19.88	29.90	3	Vertical	288	1.76	-	33.40	6.24	35.42

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

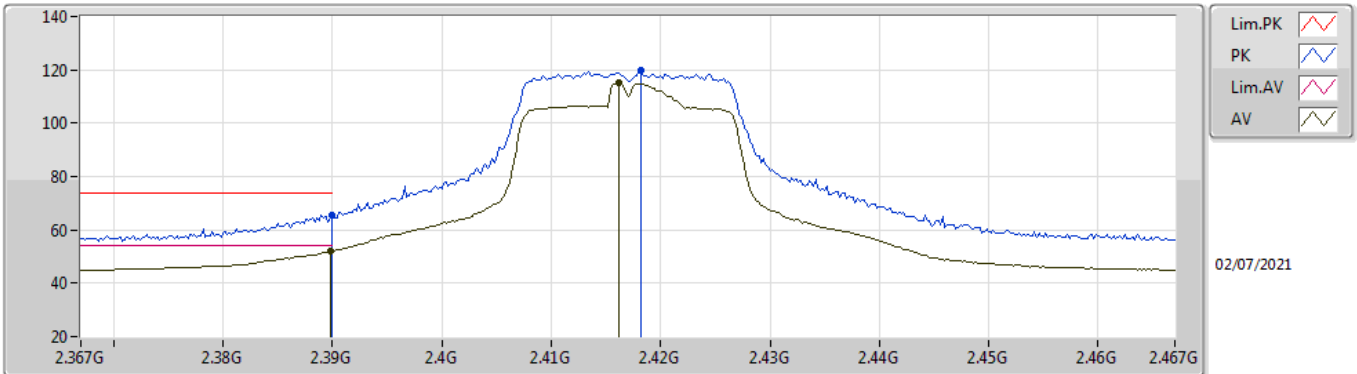


EUT_Z_2TX
Setting 24
03-C-K-5

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	4.83256G	46.06	74.00	-27.94	41.83	3	Horizontal	360	1.02	-	33.40	6.25	35.42
AV	4.81788G	33.15	54.00	-20.85	28.94	3	Horizontal	360	1.02	-	33.40	6.23	35.42

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

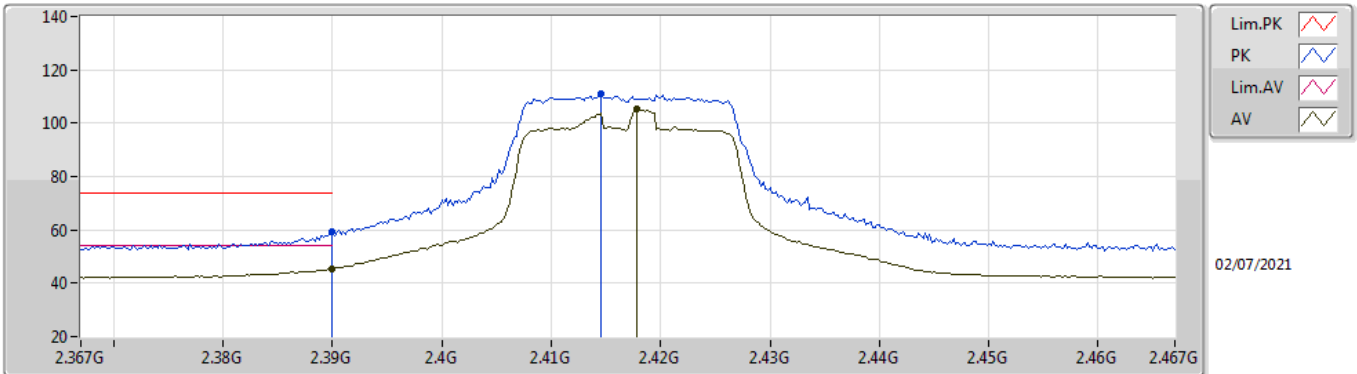


EUT_Z_2TX
Setting 25
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	65.60	74.00	-8.40	36.03	3	Vertical	225	1.95	-	27.38	2.19	-
AV	2.3898G	51.95	54.00	-2.05	22.38	3	Vertical	225	1.95	-	27.38	2.19	-
PK	2.4182G	119.66	Inf	-Inf	90.00	3	Vertical	225	1.95	-	27.44	2.22	-
AV	2.4162G	115.01	Inf	-Inf	85.36	3	Vertical	225	1.95	-	27.43	2.22	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

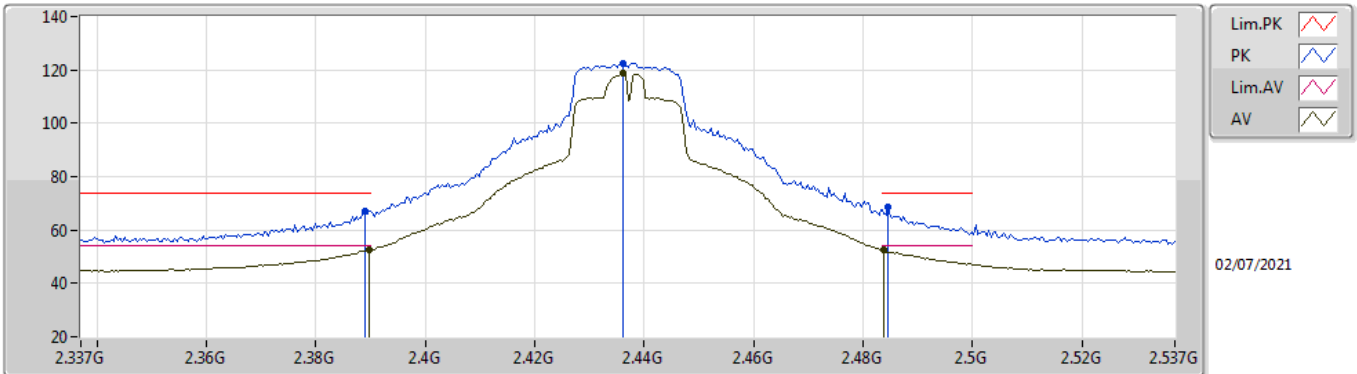


EUT_Z_2TX
Setting 25
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	59.47	74.00	-14.53	29.90	3	Horizontal	10	1.80	-	27.38	2.19	-
AV	2.39G	45.25	54.00	-8.75	15.68	3	Horizontal	10	1.80	-	27.38	2.19	-
PK	2.4146G	110.84	Inf	-Inf	81.20	3	Horizontal	10	1.80	-	27.43	2.21	-
AV	2.4178G	105.27	Inf	-Inf	75.61	3	Horizontal	10	1.80	-	27.44	2.22	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

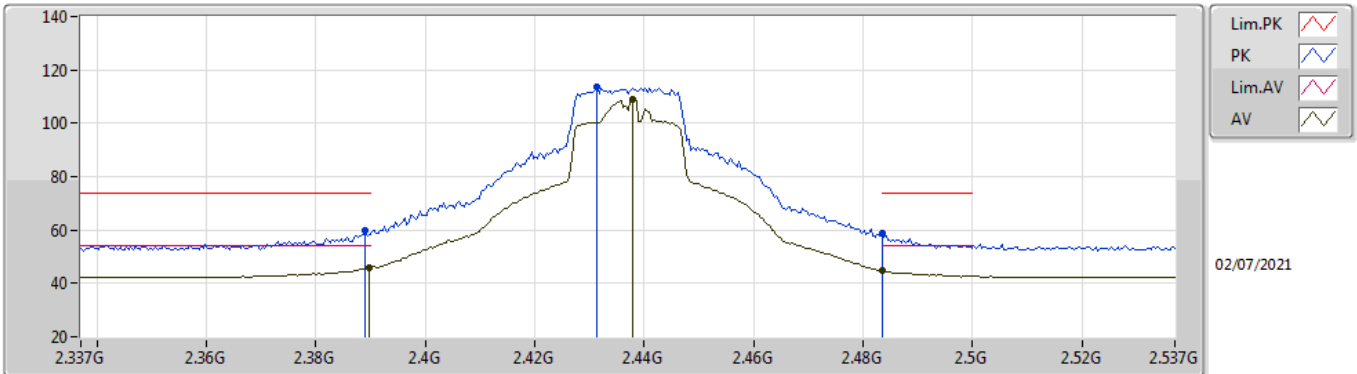


EUT_Z_2TX
Setting 29
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.389G	66.99	74.00	-7.01	37.42	3	Vertical	220	1.43	-	27.38	2.19	-	
AV	2.3898G	52.50	54.00	-1.50	22.93	3	Vertical	220	1.43	-	27.38	2.19	-	
PK	2.4362G	122.52	Inf	-Inf	92.81	3	Vertical	220	1.43	-	27.47	2.24	-	
AV	2.4362G	118.79	Inf	-Inf	89.08	3	Vertical	220	1.43	-	27.47	2.24	-	
PK	2.4846G	68.67	74.00	-5.33	38.68	3	Vertical	220	1.43	-	27.71	2.28	-	
AV	2.4838G	52.78	54.00	-1.22	22.80	3	Vertical	220	1.43	-	27.70	2.28	-	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

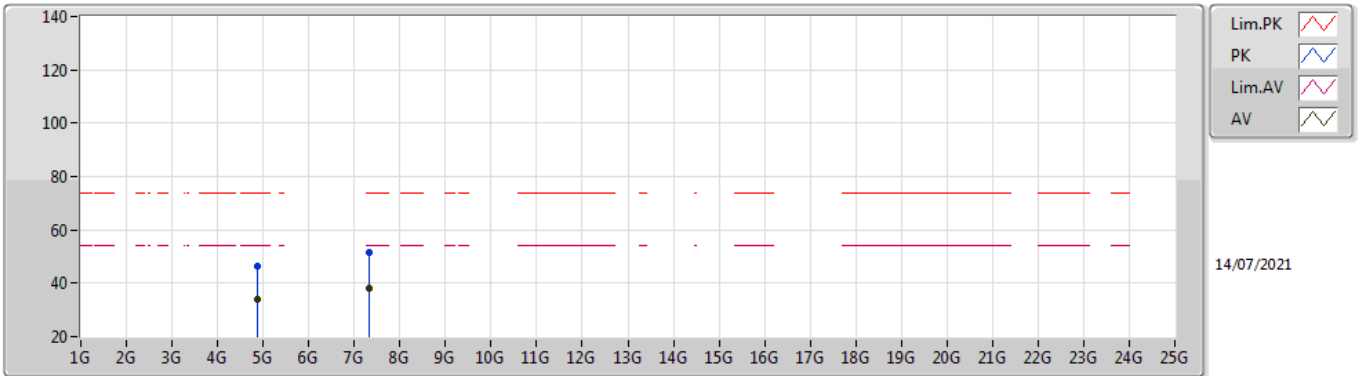


EUT_Z_2TX
Setting 29
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	59.86	74.00	-14.14	30.29	3	Horizontal	8	1.56	-	27.38	2.19	-
AV	2.3898G	45.76	54.00	-8.24	16.19	3	Horizontal	8	1.56	-	27.38	2.19	-
PK	2.4314G	113.61	Inf	-Inf	83.92	3	Horizontal	8	1.56	-	27.46	2.23	-
AV	2.4378G	109.01	Inf	-Inf	79.29	3	Horizontal	8	1.56	-	27.48	2.24	-
PK	2.4835G	58.90	74.00	-15.10	28.92	3	Horizontal	8	1.56	-	27.70	2.28	-
AV	2.4835G	44.66	54.00	-9.34	14.68	3	Horizontal	8	1.56	-	27.70	2.28	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

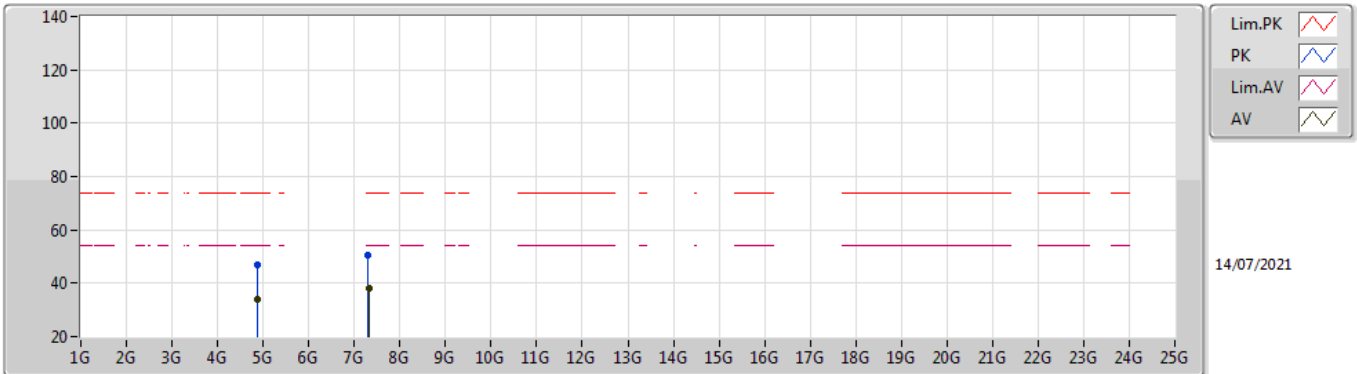


EUT_Z_2TX
Setting 29
03-C-K-5

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	4.86932G	46.55	74.00	-27.45	42.17	3	Vertical	222	1.80	-	33.48	6.30	35.40
AV	4.87404G	34.19	54.00	-19.81	29.78	3	Vertical	222	1.80	-	33.50	6.31	35.40
PK	7.31608G	51.31	74.00	-22.69	42.01	3	Vertical	359	1.00	-	37.00	7.87	35.57
AV	7.31924G	38.31	54.00	-15.69	29.00	3	Vertical	359	1.00	-	37.00	7.88	35.57

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

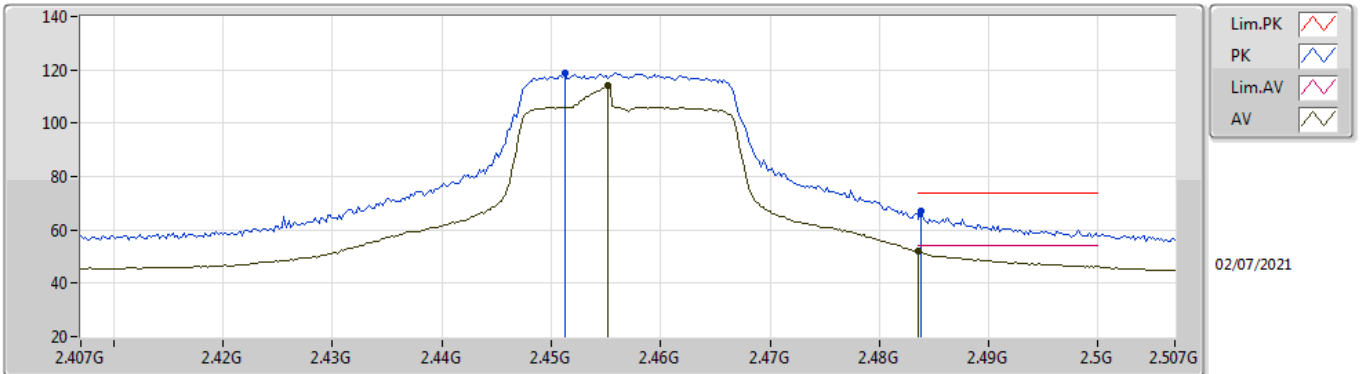


EUT_Z_2TX
Setting 29
03-C-K-5

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	4.8834G	46.67	74.00	-27.33	42.20	3	Horizontal	288	1.81	-	33.53	6.33	35.39
AV	4.87396G	34.12	54.00	-19.88	29.71	3	Horizontal	288	1.81	-	33.50	6.31	35.40
PK	7.30356G	50.53	74.00	-23.47	41.24	3	Horizontal	215	1.79	-	37.00	7.86	35.57
AV	7.31592G	37.90	54.00	-16.10	28.60	3	Horizontal	215	1.79	-	37.00	7.87	35.57

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

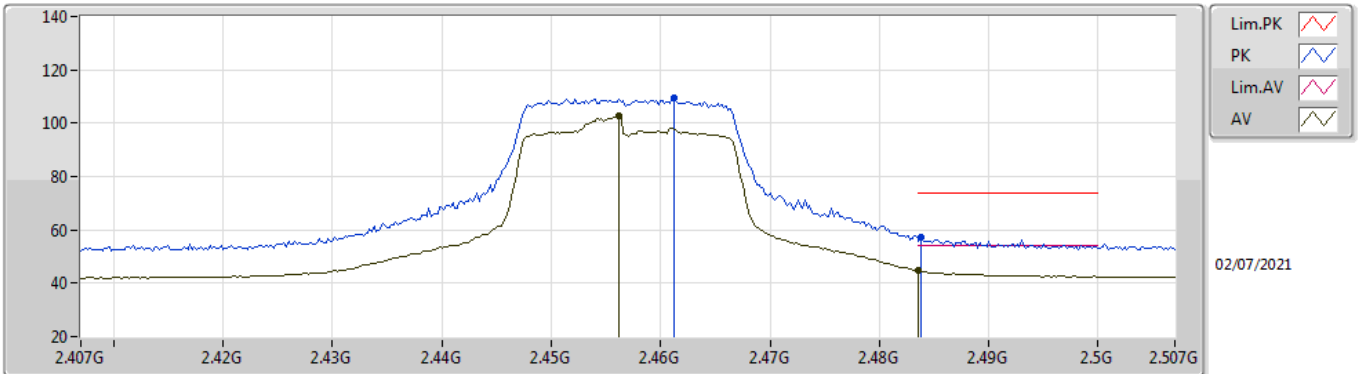


EUT_Z_2TX
Setting 25
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4512G	118.72	Inf	-Inf	88.96	3	Vertical	218	1.80	-	27.51	2.25	-
AV	2.4552G	113.96	Inf	-Inf	84.17	3	Vertical	218	1.80	-	27.53	2.26	-
PK	2.4838G	67.15	74.00	-6.85	37.17	3	Vertical	218	1.80	-	27.70	2.28	-
AV	2.4836G	52.00	54.00	-2.00	22.02	3	Vertical	218	1.80	-	27.70	2.28	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

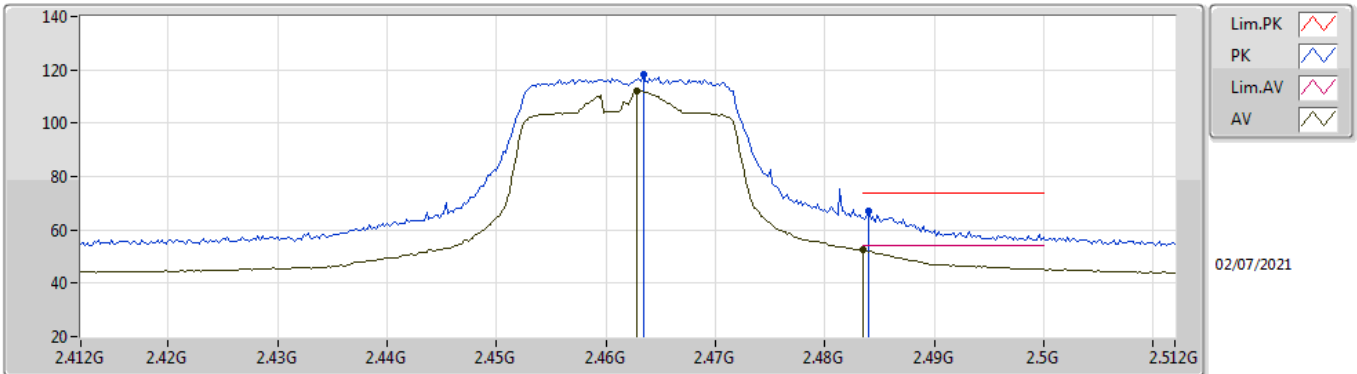


EUT_Z_2TX
Setting 25
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4612G	109.32	Inf	-Inf	79.49	3	Horizontal	8	1.51	-	27.57	2.26	-	
AV	2.4562G	102.52	Inf	-Inf	72.72	3	Horizontal	8	1.51	-	27.54	2.26	-	
PK	2.4838G	57.48	74.00	-16.52	27.50	3	Horizontal	8	1.51	-	27.70	2.28	-	
AV	2.4836G	44.66	54.00	-9.34	14.68	3	Horizontal	8	1.51	-	27.70	2.28	-	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

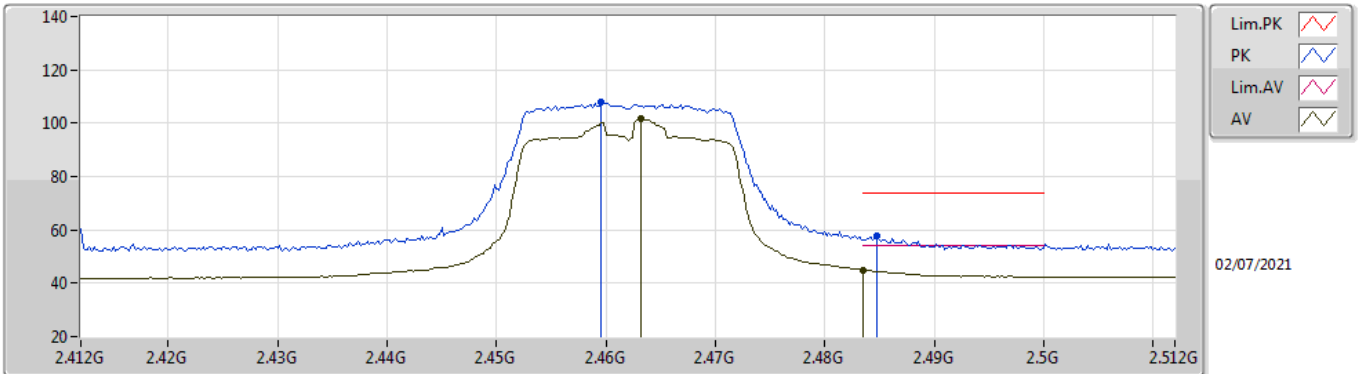


EUT_Z_2TX
Setting 23
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4634G	118.10	Inf	-Inf	88.26	3	Vertical	224	2.00	-	27.58	2.26	-
AV	2.4628G	112.16	Inf	-Inf	82.32	3	Vertical	224	2.00	-	27.58	2.26	-
PK	2.484G	67.00	74.00	-7.00	37.02	3	Vertical	224	2.00	-	27.70	2.28	-
AV	2.4835G	52.62	54.00	-1.38	22.64	3	Vertical	224	2.00	-	27.70	2.28	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

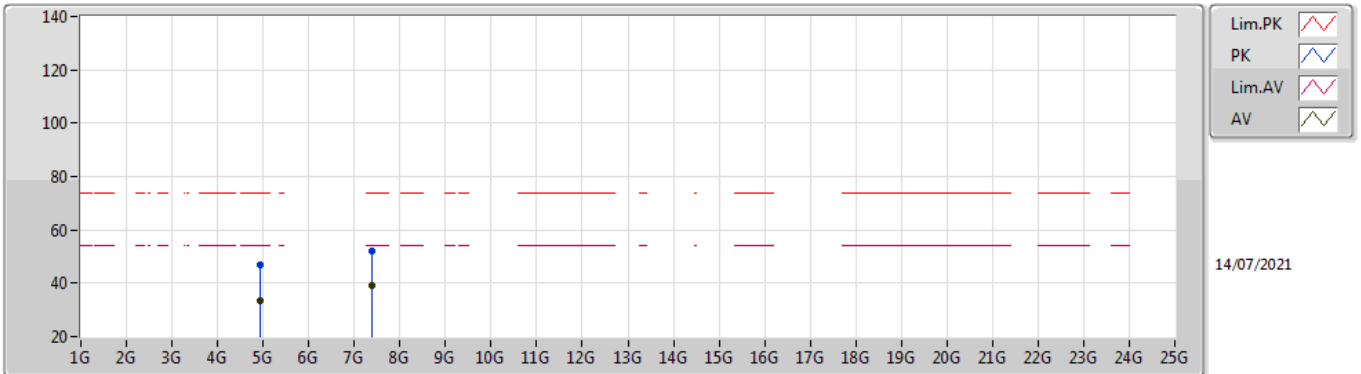


EUT_Z_2TX
Setting 23
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4596G	107.85	Inf	-Inf	78.03	3	Horizontal	10	1.70	-	27.56	2.26	-	
AV	2.4632G	101.52	Inf	-Inf	71.68	3	Horizontal	10	1.70	-	27.58	2.26	-	
PK	2.4848G	57.55	74.00	-16.45	27.56	3	Horizontal	10	1.70	-	27.71	2.28	-	
AV	2.4835G	45.02	54.00	-8.98	15.04	3	Horizontal	10	1.70	-	27.70	2.28	-	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

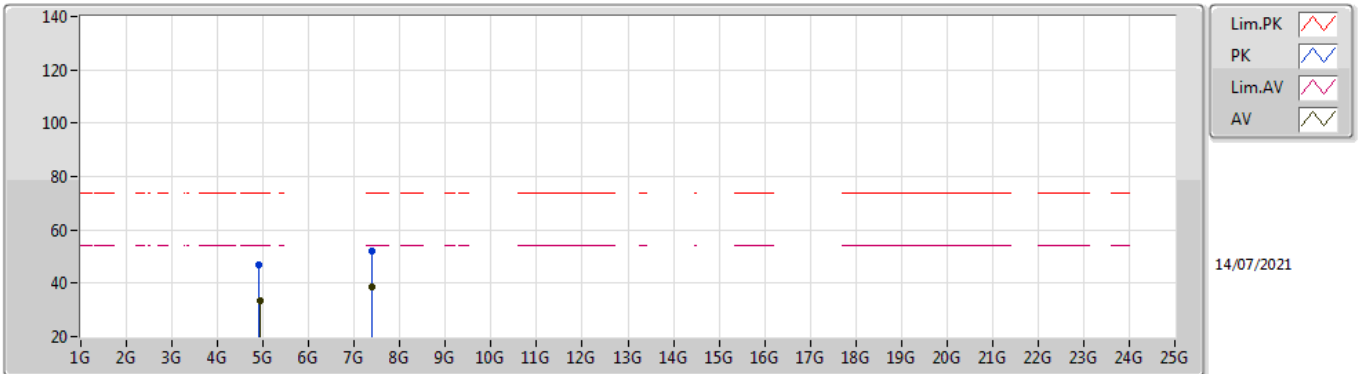


EUT_Z_2TX
Setting 23
03-C-K-5

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	4.92272G	47.15	74.00	-26.85	42.49	3	Vertical	114	1.71	-	33.65	6.38	35.37
AV	4.93116G	33.62	54.00	-20.38	28.93	3	Vertical	114	1.71	-	33.66	6.40	35.37
PK	7.38868G	52.19	74.00	-21.81	42.72	3	Vertical	307	1.80	-	37.08	7.98	35.59
AV	7.38844G	39.04	54.00	-14.96	29.57	3	Vertical	307	1.80	-	37.08	7.98	35.59

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

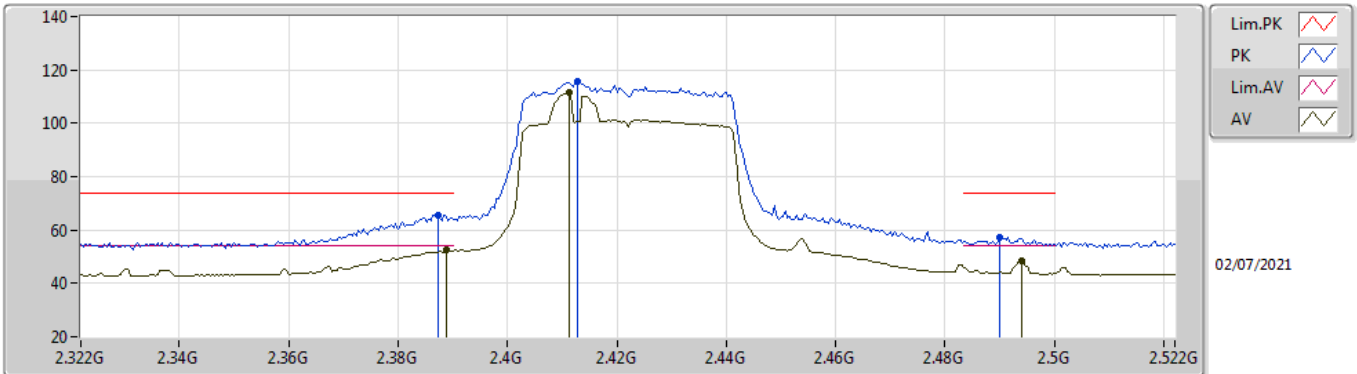


EUT_Z_2TX
Setting 23
03-C-K-5

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	4.91792G	46.78	74.00	-27.22	42.13	3	Horizontal	70	3.00	-	33.64	6.38	35.37
AV	4.9276G	33.36	54.00	-20.64	28.68	3	Horizontal	70	3.00	-	33.66	6.39	35.37
PK	7.38396G	52.24	74.00	-21.76	42.78	3	Horizontal	216	1.80	-	37.07	7.98	35.59
AV	7.39524G	38.80	54.00	-15.20	29.31	3	Horizontal	216	1.80	-	37.09	7.99	35.59

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

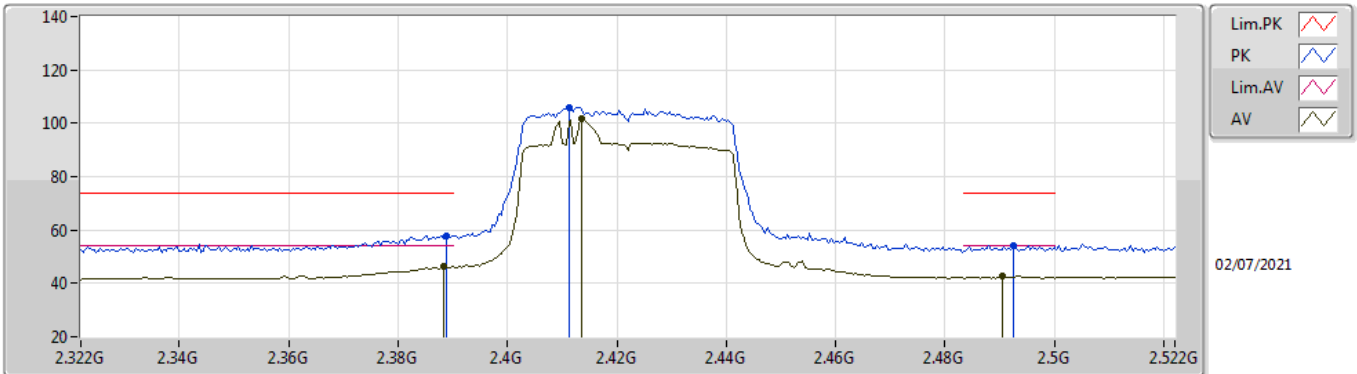


EUT_Z_2TX
Setting 22
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3872G	65.76	74.00	-8.24	36.20	3	Vertical	226	1.86	-	27.37	2.19	-
AV	2.3888G	52.40	54.00	-1.60	22.83	3	Vertical	226	1.86	-	27.38	2.19	-
PK	2.4128G	115.52	Inf	-Inf	85.88	3	Vertical	226	1.86	-	27.43	2.21	-
AV	2.4112G	111.74	Inf	-Inf	82.11	3	Vertical	226	1.86	-	27.42	2.21	-
PK	2.49G	57.38	74.00	-16.62	27.35	3	Vertical	226	1.86	-	27.74	2.29	-
AV	2.494G	48.22	54.00	-5.78	18.17	3	Vertical	226	1.86	-	27.76	2.29	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

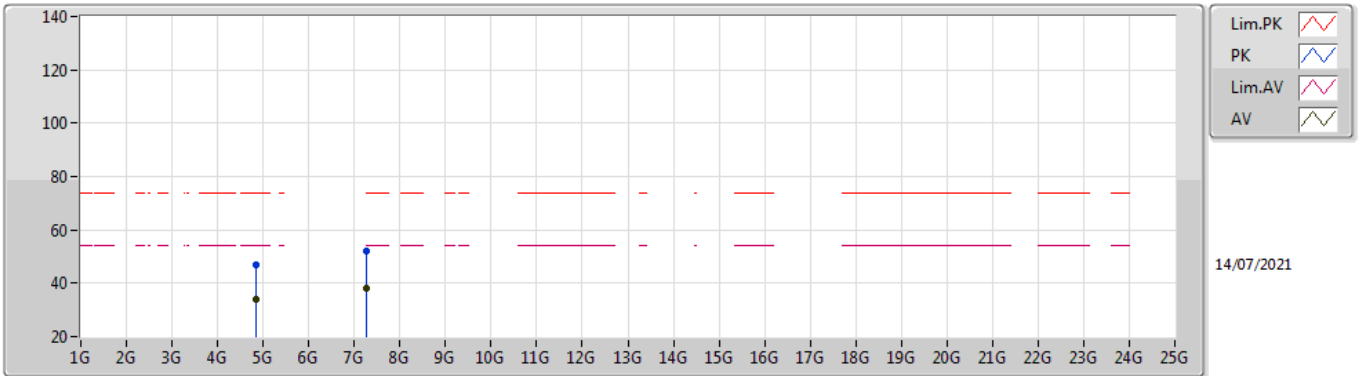


EUT_Z_TX
Setting 22
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3888G	57.82	74.00	-16.18	28.25	3	Horizontal	9	1.80	-	27.38	2.19	-
AV	2.3884G	46.32	54.00	-7.68	16.75	3	Horizontal	9	1.80	-	27.38	2.19	-
PK	2.4112G	106.09	Inf	-Inf	76.46	3	Horizontal	9	1.80	-	27.42	2.21	-
AV	2.4136G	101.74	Inf	-Inf	72.10	3	Horizontal	9	1.80	-	27.43	2.21	-
PK	2.4924G	54.07	74.00	-19.93	24.03	3	Horizontal	9	1.80	-	27.75	2.29	-
AV	2.4904G	42.77	54.00	-11.23	12.74	3	Horizontal	9	1.80	-	27.74	2.29	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

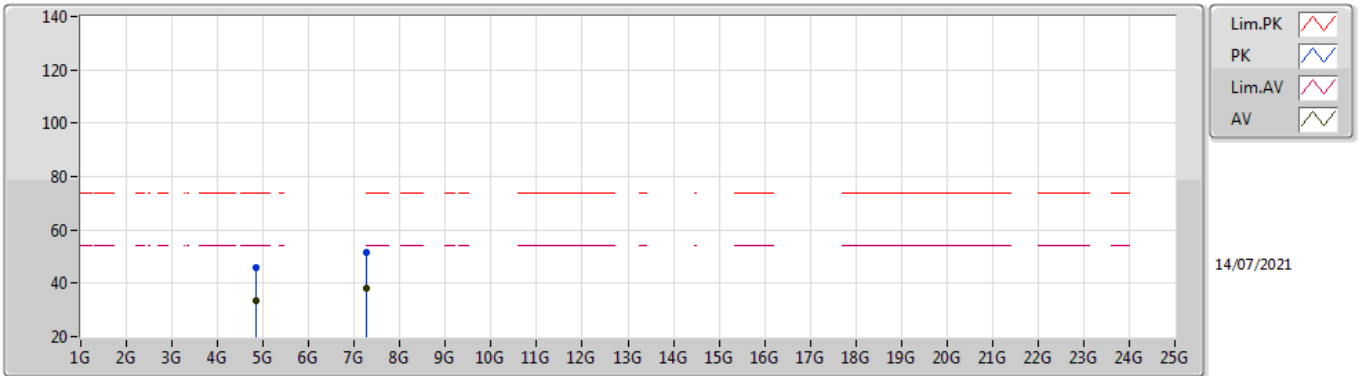


EUT_Z_2TX
Setting 22
03-C-K-5

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	4.84336G	46.98	74.00	-27.02	42.72	3	Vertical	188	1.74	-	33.40	6.27	35.41
AV	4.84272G	33.87	54.00	-20.13	29.62	3	Vertical	188	1.74	-	33.40	6.26	35.41
PK	7.27108G	52.01	74.00	-21.99	42.88	3	Vertical	237	2.55	-	36.88	7.81	35.56
AV	7.26796G	38.29	54.00	-15.71	29.18	3	Vertical	237	2.55	-	36.87	7.80	35.56

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

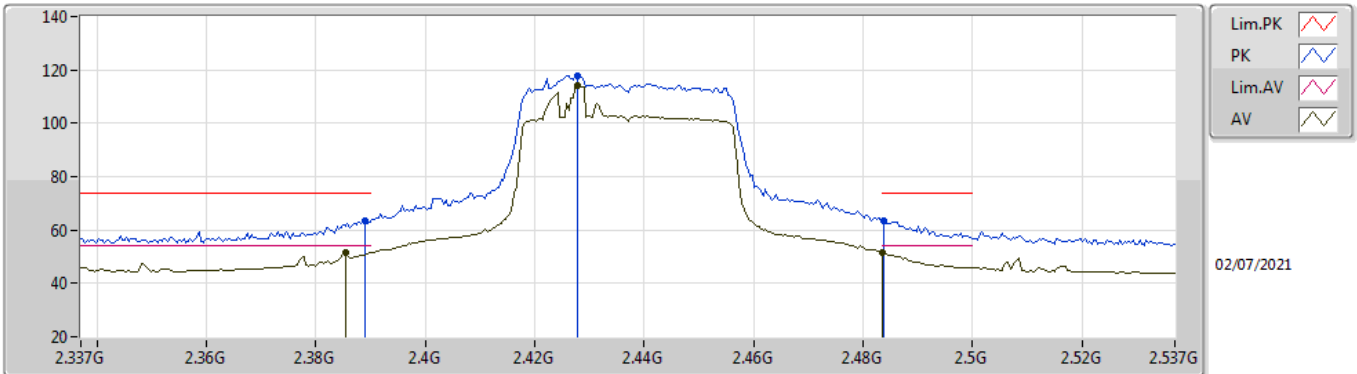


EUT_Z_2TX
Setting 22
03-C-K-5

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	4.85376G	46.09	74.00	-27.91	41.80	3	Horizontal	20	1.02	-	33.42	6.28	35.41
AV	4.84308G	33.35	54.00	-20.65	29.10	3	Horizontal	20	1.02	-	33.40	6.26	35.41
PK	7.26528G	51.77	74.00	-22.23	42.67	3	Horizontal	216	1.80	-	36.86	7.80	35.56
AV	7.25956G	38.29	54.00	-15.71	29.22	3	Horizontal	216	1.80	-	36.84	7.79	35.56

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

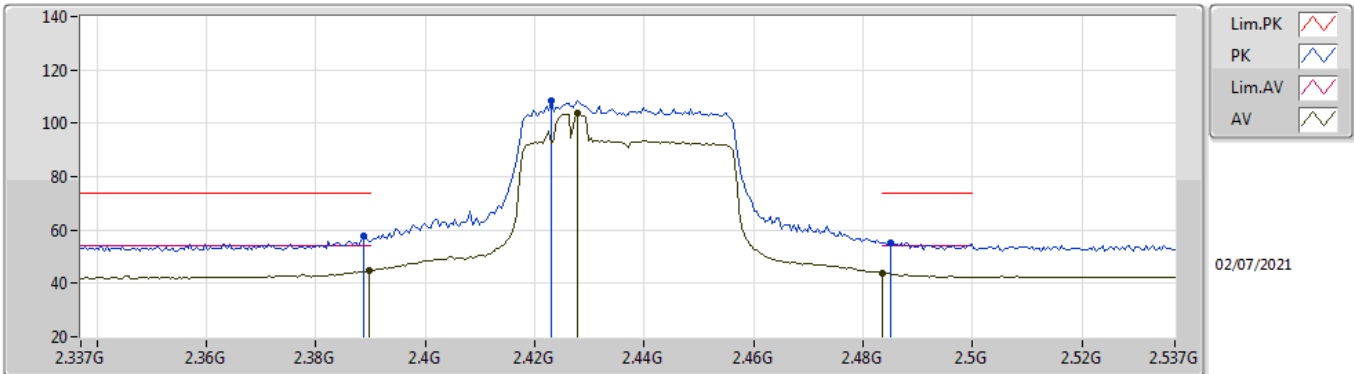


EUT_Z2TX
Setting 24
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	63.59	74.00	-10.41	34.02	3	Vertical	218	1.86	-	27.38	2.19	-
AV	2.3854G	51.63	54.00	-2.37	22.07	3	Vertical	218	1.86	-	27.37	2.19	-
PK	2.4278G	117.89	Inf	-Inf	88.20	3	Vertical	218	1.86	-	27.46	2.23	-
AV	2.4278G	114.23	Inf	-Inf	84.54	3	Vertical	218	1.86	-	27.46	2.23	-
PK	2.4838G	63.63	74.00	-10.37	33.65	3	Vertical	218	1.86	-	27.70	2.28	-
AV	2.4835G	51.34	54.00	-2.66	21.36	3	Vertical	218	1.86	-	27.70	2.28	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

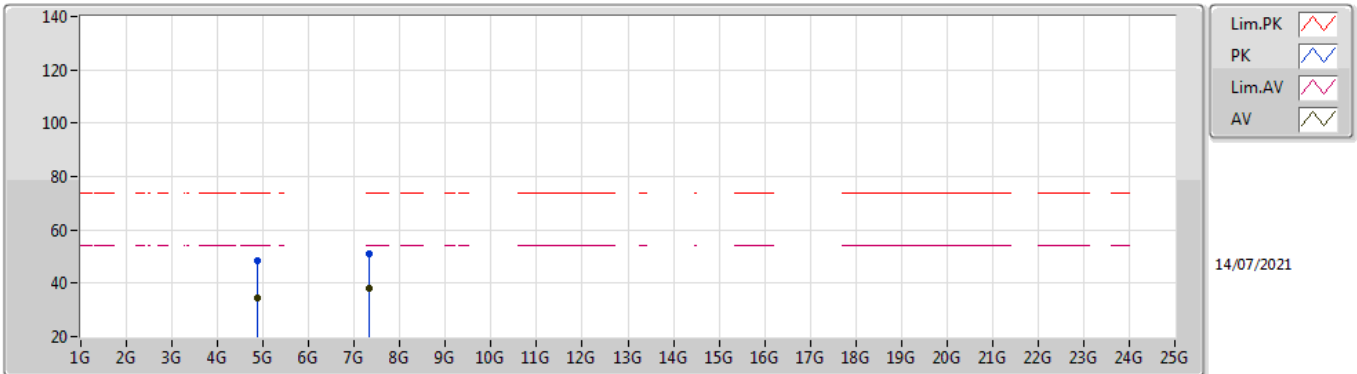


EUT_Z_2TX
Setting 24
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	57.97	74.00	-16.03	28.40	3	Horizontal	8	1.79	-	27.38	2.19	-
AV	2.3898G	44.74	54.00	-9.26	15.17	3	Horizontal	8	1.79	-	27.38	2.19	-
PK	2.423G	108.59	Inf	-Inf	78.92	3	Horizontal	8	1.79	-	27.45	2.22	-
AV	2.4278G	103.61	Inf	-Inf	73.92	3	Horizontal	8	1.79	-	27.46	2.23	-
PK	2.485G	55.39	74.00	-18.61	25.39	3	Horizontal	8	1.79	-	27.71	2.29	-
AV	2.4835G	43.94	54.00	-10.06	13.96	3	Horizontal	8	1.79	-	27.70	2.28	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

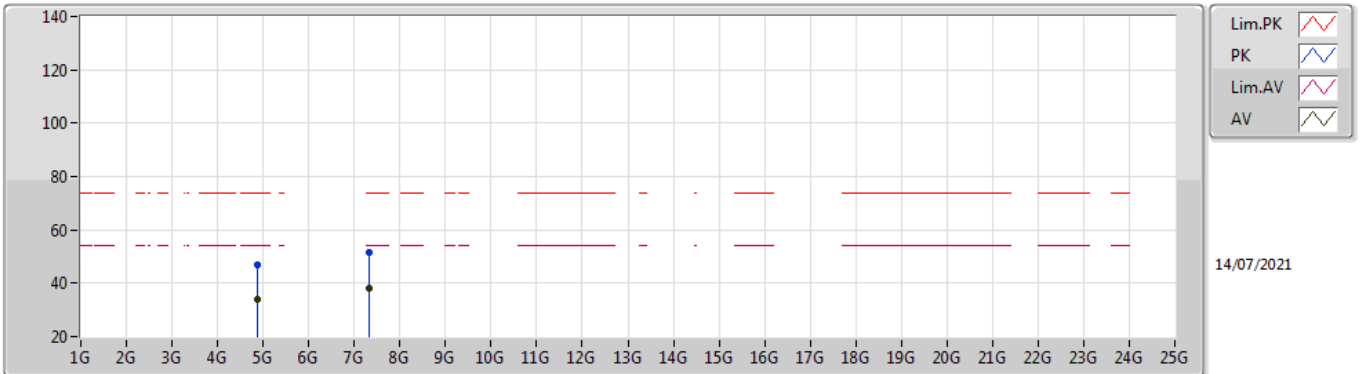


EUT_Z_2TX
Setting 24
03-C-K-5

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	4.88152G	48.44	74.00	-25.56	43.98	3	Vertical	216	1.76	-	33.53	6.32	35.39
AV	4.86732G	34.53	54.00	-19.47	30.16	3	Vertical	216	1.76	-	33.47	6.30	35.40
PK	7.31904G	50.82	74.00	-23.18	41.51	3	Vertical	151	1.80	-	37.00	7.88	35.57
AV	7.32084G	37.99	54.00	-16.01	28.68	3	Vertical	151	1.80	-	37.00	7.88	35.57

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

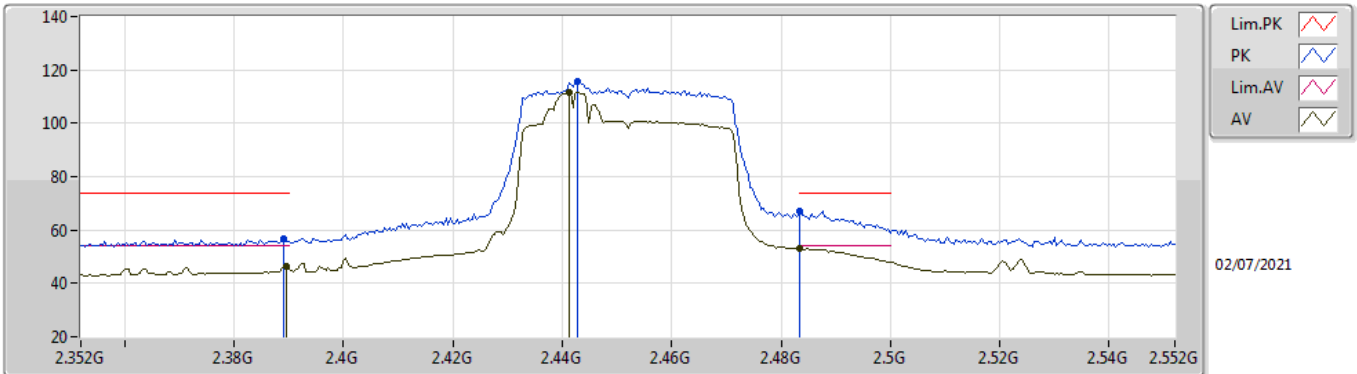


EUT_Z_2TX
Setting 24
03-C-K-5

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	4.87984G	46.99	74.00	-27.01	42.54	3	Horizontal	48	1.80	-	33.52	6.32	35.39
AV	4.87884G	33.83	54.00	-20.17	29.38	3	Horizontal	48	1.80	-	33.52	6.32	35.39
PK	7.3178G	51.48	74.00	-22.52	42.17	3	Horizontal	280	1.81	-	37.00	7.88	35.57
AV	7.32056G	38.15	54.00	-15.85	28.84	3	Horizontal	280	1.81	-	37.00	7.88	35.57

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

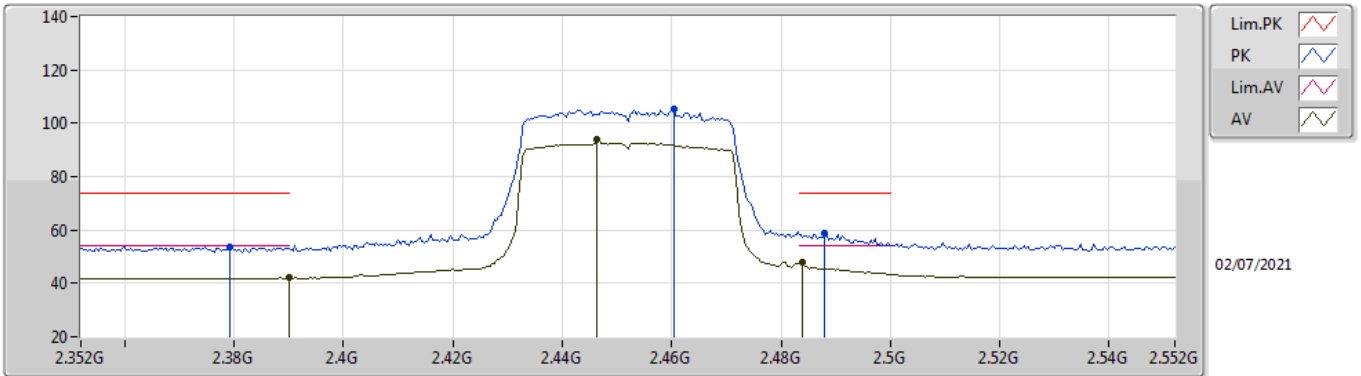


EUT_Z_2TX
Setting 22
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	56.48	74.00	-17.52	26.91	3	Vertical	217	1.80	-	27.38	2.19	-
AV	2.3896G	46.43	54.00	-7.57	16.86	3	Vertical	217	1.80	-	27.38	2.19	-
PK	2.4428G	115.46	Inf	-Inf	85.73	3	Vertical	217	1.80	-	27.49	2.24	-
AV	2.4412G	111.62	Inf	-Inf	81.90	3	Vertical	217	1.80	-	27.48	2.24	-
PK	2.4835G	67.17	74.00	-6.83	37.19	3	Vertical	217	1.80	-	27.70	2.28	-
AV	2.4835G	53.12	54.00	-0.88	23.14	3	Vertical	217	1.80	-	27.70	2.28	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

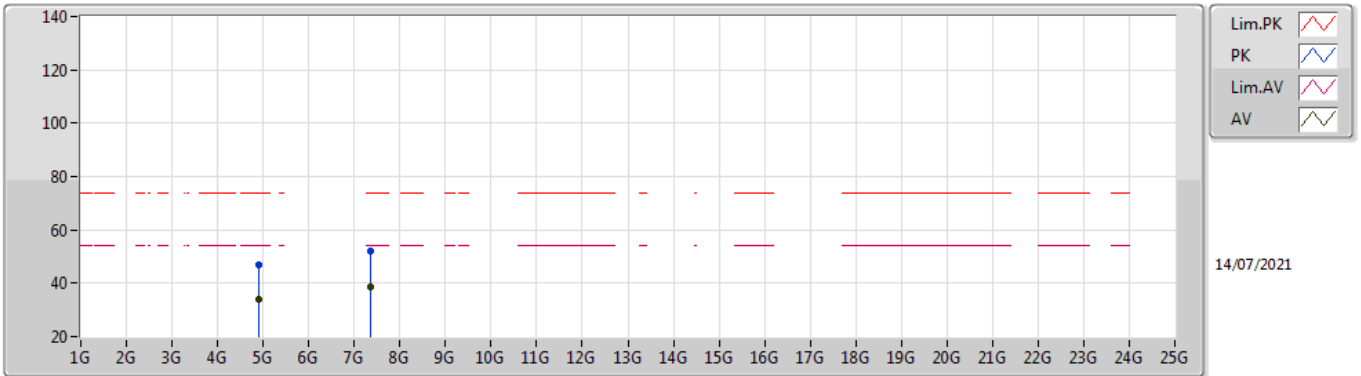


EUT_Z_2TX
Setting 22
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3792G	53.81	74.00	-20.19	24.27	3	Horizontal	18	1.78	-	27.36	2.18	-
AV	2.39G	42.06	54.00	-11.94	12.49	3	Horizontal	18	1.78	-	27.38	2.19	-
PK	2.4604G	105.09	Inf	-Inf	75.27	3	Horizontal	18	1.78	-	27.56	2.26	-
AV	2.4664G	94.21	Inf	-Inf	64.47	3	Horizontal	18	1.78	-	27.49	2.25	-
PK	2.488G	58.64	74.00	-15.36	28.62	3	Horizontal	18	1.78	-	27.73	2.29	-
AV	2.484G	48.18	54.00	-5.82	18.20	3	Horizontal	18	1.78	-	27.70	2.28	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

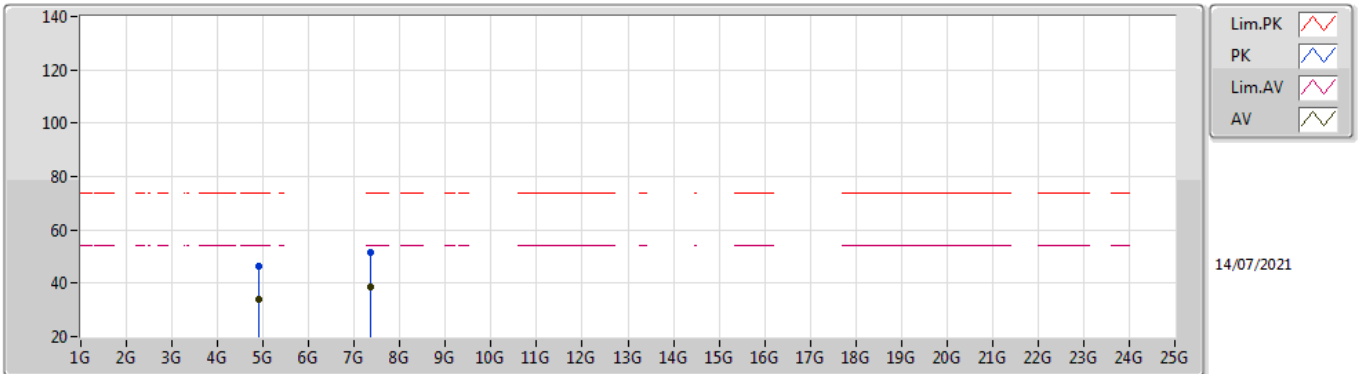


EUT_Z_2TX
Setting 22
03-C-K-5

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	4.89692G	47.14	74.00	-26.86	42.58	3	Vertical	140	1.80	-	33.59	6.35	35.38
AV	4.89772G	33.85	54.00	-20.15	29.29	3	Vertical	140	1.80	-	33.59	6.35	35.38
PK	7.34752G	52.03	74.00	-21.97	42.69	3	Vertical	357	1.00	-	37.00	7.92	35.58
AV	7.34756G	38.57	54.00	-15.43	29.23	3	Vertical	357	1.00	-	37.00	7.92	35.58

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX



EUT_Z_2TX
Setting 22
03-C-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	4.89504G	46.49	74.00	-27.51	41.95	3	Horizontal	163	1.16	-	33.58	6.34	35.38
AV	4.89436G	33.97	54.00	-20.03	29.43	3	Horizontal	163	1.16	-	33.58	6.34	35.38
PK	7.36464G	51.50	74.00	-22.50	42.10	3	Horizontal	1	1.81	-	37.03	7.95	35.58
AV	7.34772G	38.62	54.00	-15.38	29.28	3	Horizontal	1	1.81	-	37.00	7.92	35.58



RSE Co-location Result

Appendix G

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.34394G	37.68	54.00	-16.32	Horizontal

