Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	MSQ-RTAX4S00
Equipment	:	AX7800 Tri Band WiFi Router AX6600 Tri Band WiFi Router
Brand Name	:	ASUS
Model Name	:	ZenWiFi XT9/ASUS ZenWiFi XT9/XT8/BR-XT9/ZenWiFi Business BR-XT9/XT9
Applicant	:	ASUSTeK COMPUTER INC. 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Manufacturer (1)	:	Compal Networking(KunShan) CO., LTD. No.520,Nan Bang RD., Economic & Technical Development Zone, KunShan,JiangSu,China
Manufacturer (2)	:	ARCADYAN TECHNOLOGY (VIETNAM) CO., LTD. No. D4-5-6, Thang Long Industrial Park (Vinh Phuc), Thien Ke Commune, Binh Xuyen District, Vinh Phuc Province, Vietnam
Standard	:	47 CFR FCC Part 15.247

The product was received on Oct. 19, 2021, and testing was started from Nov. 21, 2021 and completed on Mar. 23, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory
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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 9
1.3 Testing Location Information 9
1.4 Measurement Uncertainty 10

2 Test Configuration of EUT **11**

2.1 Test Channel Mode 11
2.2 The Worst Case Measurement Configuration 13
2.3 EUT Operation during Test 15
2.4 Accessories 16
2.5 Support Equipment 16
2.6 Test Setup Diagram 18

3 Transmitter Test Result **20**

3.1 AC Power-line Conducted Emissions 21
3.2 DTS Bandwidth 23
3.3 Maximum Conducted Output Power 24
3.4 Power Spectral Density 27
3.5 Emissions in Non-restricted Frequency Bands 29
3.6 Emissions in Restricted Frequency Bands 30

4 Test Equipment and Calibration Data **34**

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

Report No.	Version	Description	Issued Date
FR162917-01AA	01	Initial issue of report	Mar. 02, 2022
FR162917-01AA	02	1. Revising ant.1~ant.6 antenna gain of section 1.1.2. 2. Revising test results of Maximum Conducted Output Power and Power Spectral Density.	Mar. 25, 2022

Summary of Test Result

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

Declaration of Conformity:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

Comments and Explanations:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen
Report Producer: Wendy Pan

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

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

1.1.2 Antenna Information

Ant.	Port			Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz UNII 1~ UNII 2A	WLAN 5GHz UNII 2C~ UNII 4					
1	2	2	-	PSA	RFDPA230508I MLB902	Dipole	I-PEX	Note2
2	1	1	-	PSA	RFDPA230508I MLB902	Dipole	I-PEX	
3	-	-	3	PSA	RFDPA230508I MLB902	Dipole	I-PEX	
4	-	-	1	PSA	RFDPA230508I MLB902	Dipole	I-PEX	
5	-	-	2	PSA	RFDPA230508I MLB902	Dipole	I-PEX	
6	-	-	4	PSA	RFDPA230508I MLB902	Dipole	I-PEX	

Note1: The above information was declared by manufacturer.
Note2:

Ant.	Antenna Gain (dBi)					
	WLAN 2.4GHz	WLAN 5GHz UNII 1	WLAN 5GHz UNII 2A	WLAN 5GHz UNII 2C	WLAN 5GHz UNII 3	WLAN 5GHz UNII 4
1	3.86	4.25	4.45	-	-	-
2	3.94	4.53	4.52	-	-	-
3	-	-	-	3.8	4.05	4.73
4	-	-	-	4.06	4.23	4.23
5	-	-	-	3.66	3.65	4.78
6	-	-	-	4.32	4.76	5.08

Directional Gain (dBi)											
WLAN 2.4GHz		WLAN 5GHz UNII 1		WLAN 5GHz UNII 2A		WLAN 5GHz UNII 2C		WLAN 5GHz UNII 3		WLAN 5GHz UNII 4	
2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	4T1S	4T2S	4T1S	4T2S	4T1S	4T2S
5.38	2.46	5.83	2.82	5.56	2.8	6.86	4.32	7.11	4.76	7.71	5.08

Note3: The directional gain is measured which follows the procedure of KDB 662911 D03.
The antenna report is provided in the operational description for this application.

For 2.4GHz and 5GHz UNII 1~UNII 2A function:

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz UNII 2C~UNII 4 function:

For IEEE 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

For non-beamforming 2T1S mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.993	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.99	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)

For non-beamforming 2T2S mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20	0.992	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	0.99	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)

For beamforming 2T1S mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20-BF	0.974	0.11	2.928m	1k
802.11ax HEW40-BF	0.957	0.19	4.36m	300

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	Mtool V3.1.0.3, accessMTool_3_2_1_1, DOS [ver 6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Brand Name	Equipment Name	Model Name	Description
ASUS	AX7800 Tri Band WiFi Router, AX6600 Tri Band WiFi Router	ZenWiFi XT9	All the equipment names and model names are identical, the different equipment names and model names served as a marketing strategy.
		ASUS ZenWiFi XT9	
		XT8	
		BR-XT9	
		ZenWiFi Business BR-XT9	
		XT9	

Note: From the above model: XT9 was selected as representative model for the test and its data was recorded in this report.
The above information was declared by manufacturer.

1.1.6 Table for Components Source Information

Items	Main Source	Second Source
Reserve resistor position for I/O board	V	N/A

Note: The above information was declared by manufacturer.

1.1.7 Table for EUT information

EUT	Reserve resistor position for I/O board
EUT 1	Main Source
EUT 2	Second Source

Note: The EUT 1 was performed testing for all items.

1.1.8 Table for EUT Supports Function

Function	Support Type	Remark
AP Router	Master	Support 2.4GHz/5GHz UNII 1-4
Bridge	Slave without radar detection	Support 2.4GHz/5GHz UNII 1-4
Mesh	Master	Support 2.4GHz/5GHz UNII 2C-4

Note: The AP Router (Master) mode has been tested and recorded in this test report.
The above information was declared by manufacturer.

1.1.9 Applicable Standards

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

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

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

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

1.2 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Owen Hsu	19.2~20.1 / 63~67	Jan. 20, 2022 ~ Mar. 23, 2022
Radiated<1GH	03CH04-CB	Simmon Cheng	24.4-25.5 / 55-58	Nov. 21, 2021 ~ Feb. 17, 2022
Radiated>1GH	03CH06-CB	Simmon Cheng	23.5-24.4 / 56-59	Nov. 21, 2021 ~ Feb. 17, 2022
Radiated>1GH Co-Location	03CH05-CB	Simmon Cheng	22.7-23.8 / 55-58	Nov. 21, 2021 ~ Feb. 17, 2022
AC Conduction	CO01-CB	Peter Wu	22~24 / 57~58	Dec. 09, 2021

1.3 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

For non-beamforming Nss1 mode:

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	102
2437MHz	102
2462MHz	102
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	84
2417MHz	94
2437MHz	104
2457MHz	100
2462MHz	95

For non-beamforming Nss2 mode:

Mode	Power Setting
802.11ax HEW20_Nss2,(MCS0)_2TX	-
2412MHz	84
2417MHz	94
2437MHz	104
2457MHz	96
2462MHz	89
802.11ax HEW40_Nss2,(MCS0)_2TX	-
2422MHz	79
2437MHz	84
2452MHz	84

For beamforming Nss1 mode:

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	81
2417MHz	92
2437MHz	104
2457MHz	97
2462MHz	90
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	77
2437MHz	82
2452MHz	82

Note:
- Evaluated HEW20/HEW40 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.

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 1 + Adapter 1
2	EUT 1 + Adapter 2
For operating mode 1 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
1	EUT 1

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
	The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT 1 in Y axis + WLAN 2.4GHz + Adapter 1
2	EUT 1 in Y axis + WLAN 2.4GHz +Adapter 2
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3~Mode 4 will follow this same test mode.	
3	EUT 1 in Y axis + WLAN 5GHz (UNII 1~UNII 2A) + Adapter 1
4	EUT 1 in Y axis + WLAN 5GHz (UNII 2C~UNII 4) + Adapter 1
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT 1 in Y axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT 1 in Y axis + WLAN 2.4GHz + WLAN 5GHz (UNII 1~UNII 2A)
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	EUT 1 + WLAN 2.4GHz + WLAN 5GHz (UNII 1~UNII 2A) + WLAN 5GHz (UNII 2C~UNII 4)
Refer to Sporton Test Report No.: FA162917-01 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.
The program was executed as follows:
1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS [ver 6.1.7601].
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by WLAN AP and transmit duty cycle no less than 98%.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories				
Equipment Name	**Brand Name**	**Model Name**	**Rating**	**Color**
Adapter 1	LEI	MU36D1120300-A1	INPUT: 100-240V~50/60Hz, 1.0A OUTPUT: 12V, 3A	White
Adapter 2	APD	WA-36N12FU	INPUT: 100-240V~, 50-60Hz, 0.9A, Max. OUTPUT: 12.0V, 3.0A	White
Adapter 3	LEI	MU36D1120300-A1	INPUT: 100-240V~50/60Hz, 1.0A OUTPUT: 12V, 3A	Black
Adapter 4	APD	WA-36N12FU	INPUT: 100-240V~, 50-60Hz, 0.9A, Max. OUTPUT: 12.0V, 3.0A	Black
Other				
RJ-45 cable*1: Non-shielded, 1.5m				

Note: The difference between Adapter1 & Adapter 3 is only color, there is only adapter 1 tested and recorded in this report.

The difference between Adapter2 & Adapter 4 is only color, there is only adapter 2 tested and recorded in this report.

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN1 NB	DELL	E6430	N/A
B	2.4G NB	DELL	E6430	N/A
C	5G-L NB	DELL	E6430	N/A
D	2.5G WAN PC	DELL	T3400	N/A
E	5G-H NB	DELL	E6430	N/A
F	Flash disk3.0	Transcend	JetFlash-700	N/A
G	LAN3 NB	DELL	E6430	N/A

For Radiated (below 1GHz) and Radiated (above 1GHz / Non-beamforming mode):

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

For Radiated (above 1GHz / Beamforming mode):

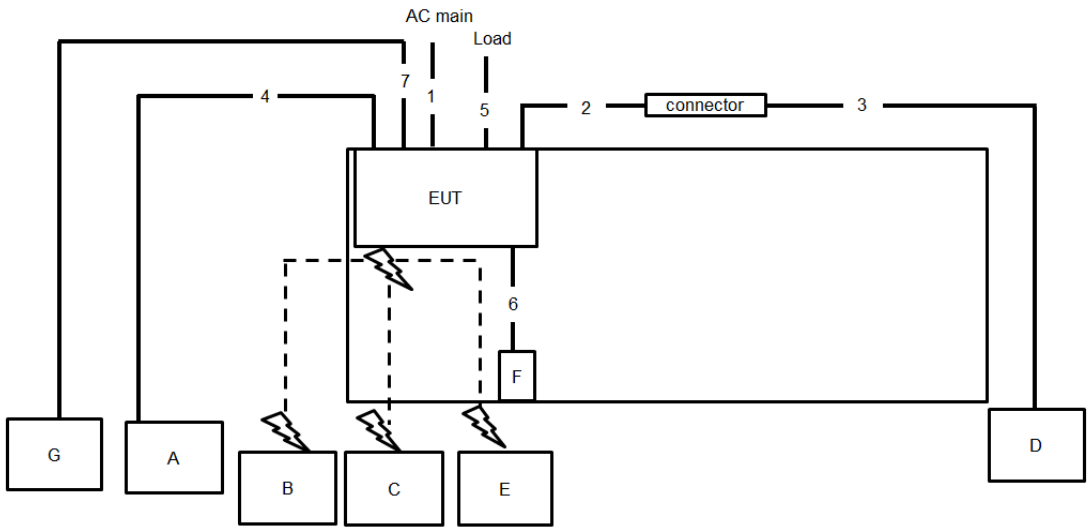
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	WLAN AP	ASUS	XT9	MSQ-RTAX4S00
C	Notebook	DELL	E4300	N/A

For RF Conducted:

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

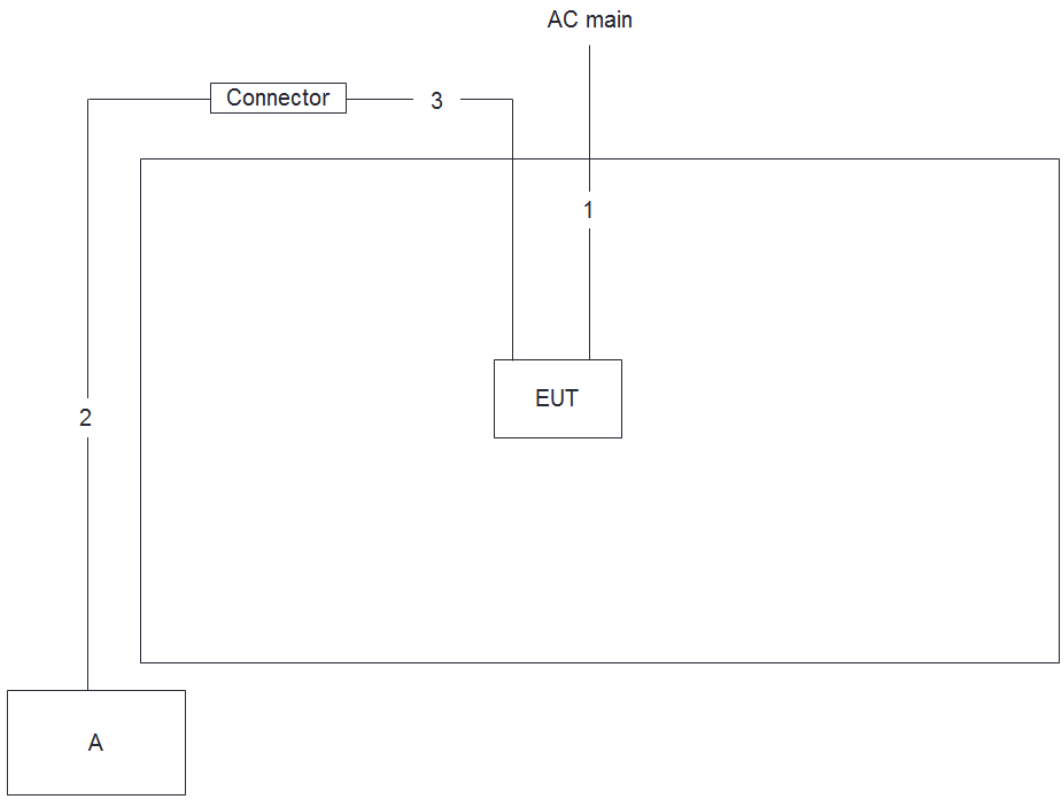
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



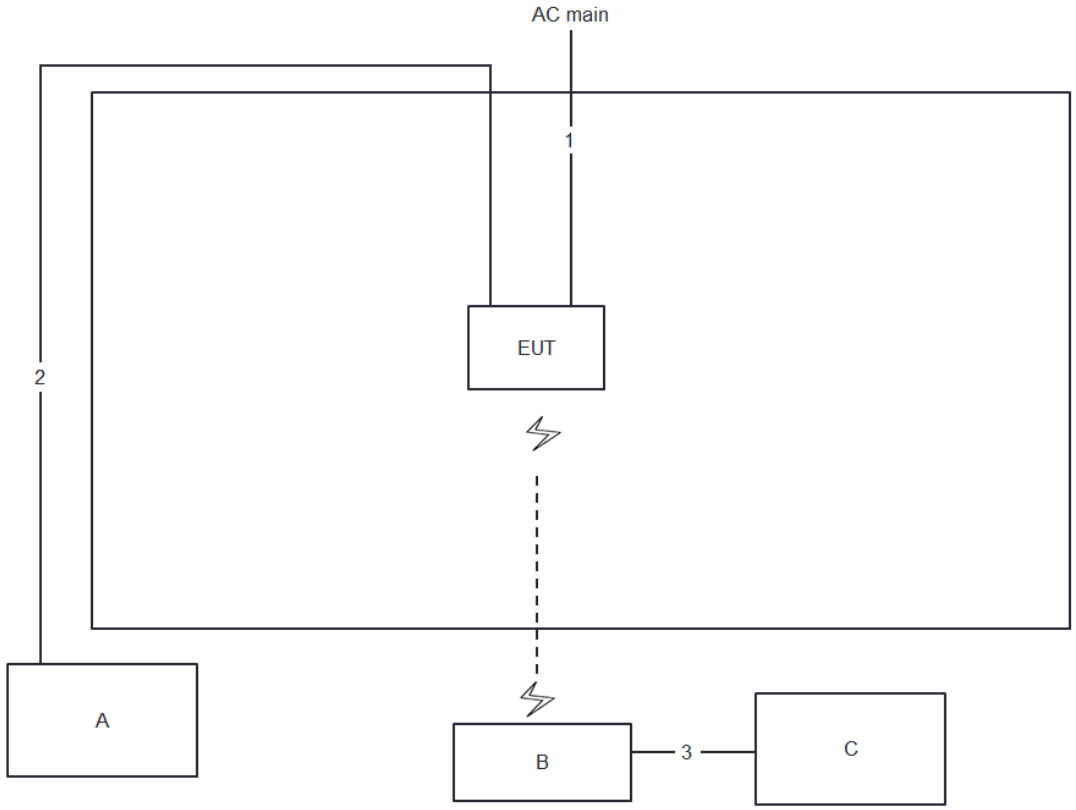
Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m
5	RJ-45 cable	No	1.5m
6	USB cable	Yes	1.8m
7	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test < 1GHz and Radiated Test > 1GHz / Non-beamforming mode



Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz / beamforming mode



Item	Connection	Shielded	Length
1	Power cable	No	1.8m
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

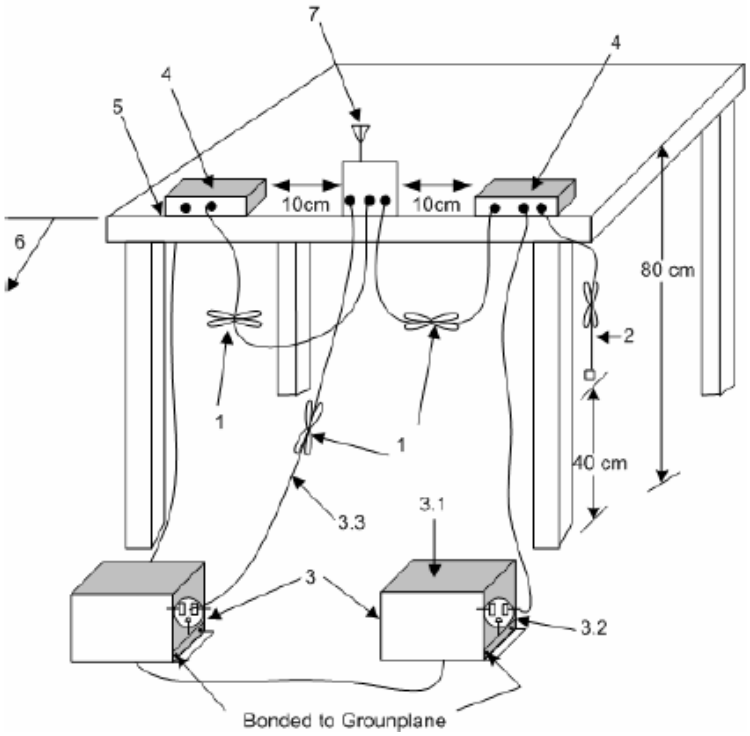
Refer a test equipment and calibration data table in this test report.

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

AC Power-line Conducted Emissions



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

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level

b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

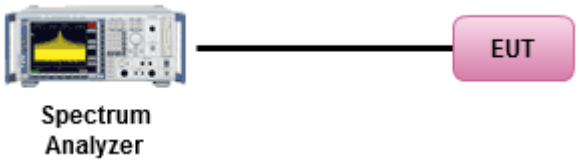
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)

3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

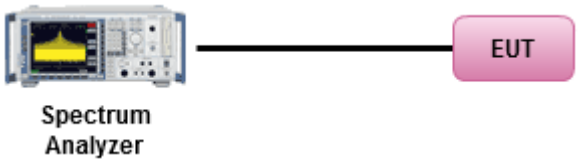
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

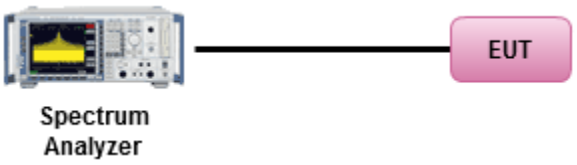
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands


3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

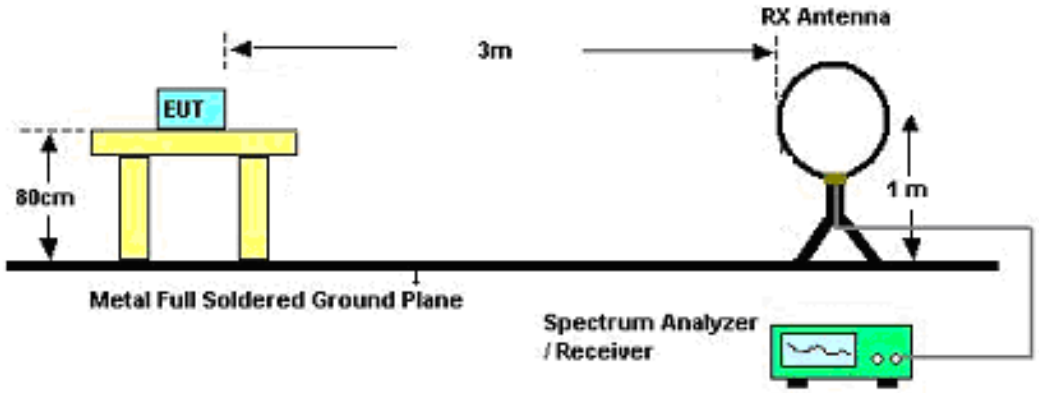
3.6.3 Test Procedures

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

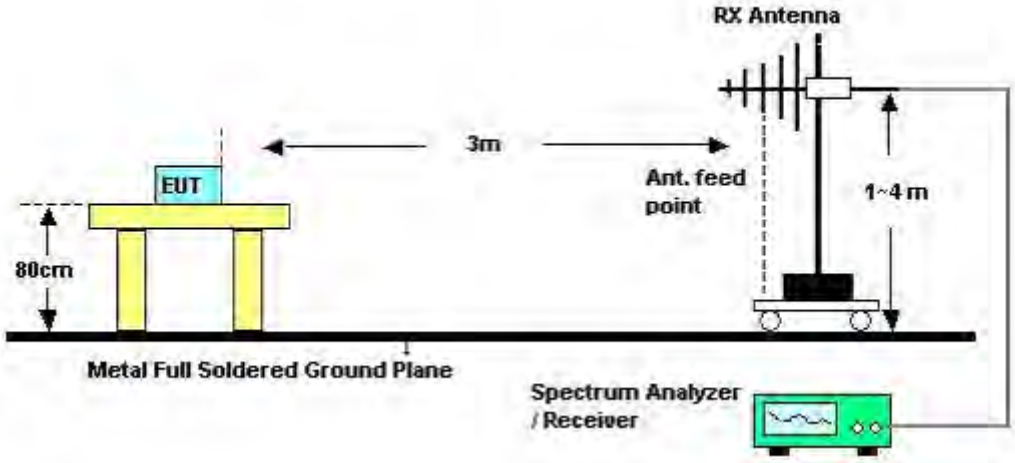
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

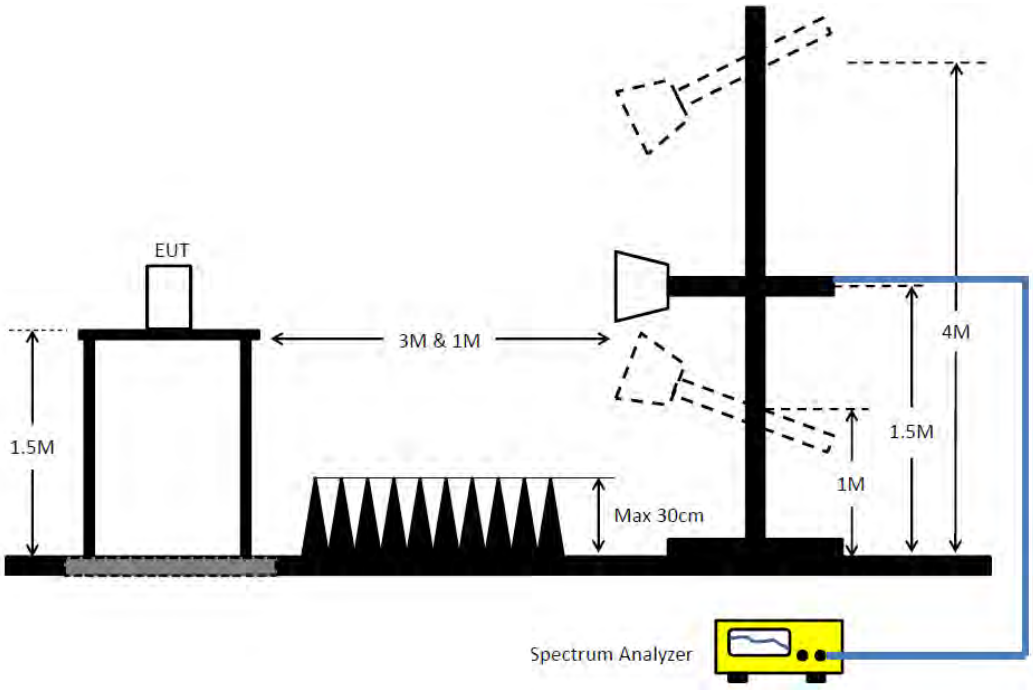
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 Measurement Results Calculation

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
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)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH04-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30 MHz ~ 1 GHz	Aug. 08, 2021	Aug. 07, 2022	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	22021&AT-N0607	30MHz ~ 1GHz	Oct. 09, 2021	Oct. 08, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	310N	187291	0.1MHz ~ 1GHz	Dec. 17, 2020	Dec. 16, 2021	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	310N	187291	0.1MHz ~ 1GHz	Dec. 16, 2021	Dec. 15, 2022	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Feb. 19, 2021	Feb. 18, 2022	Radiation (03CH04-CB
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz – 1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 01, 2021	Sep. 30, 2022	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Aug. 04, 2021	Aug. 03, 2022	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 06, 2021	May 05, 2022	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 24, 2021	Dec. 23, 2022	Radiation (03CH06-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05	1GHz~18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+24	1GHz~18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Oct. 14, 2021	Oct. 13, 2022	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
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	100979	9kHz~40GHz	May 21, 2021	May 20, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

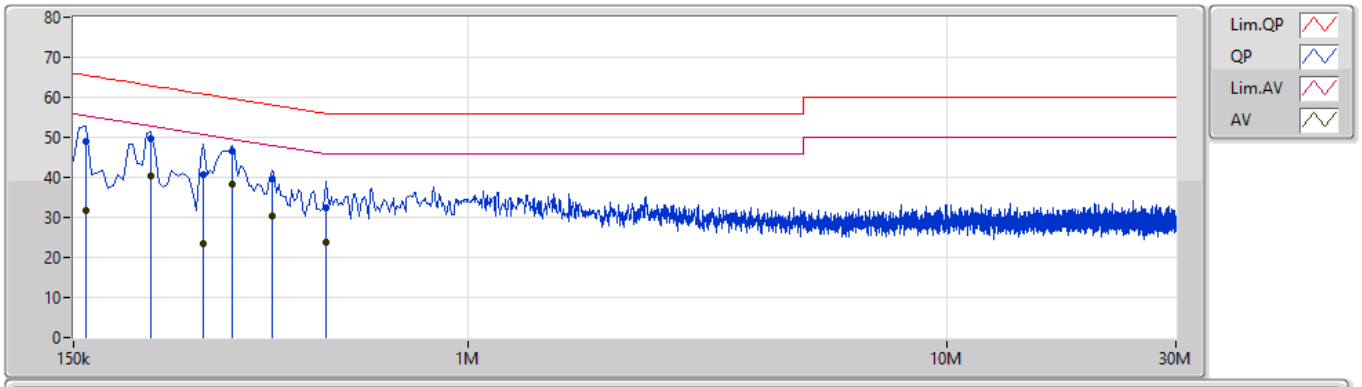
N.C.R. means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	312k	42.28	49.92	-7.64	Neutral

Mode 1

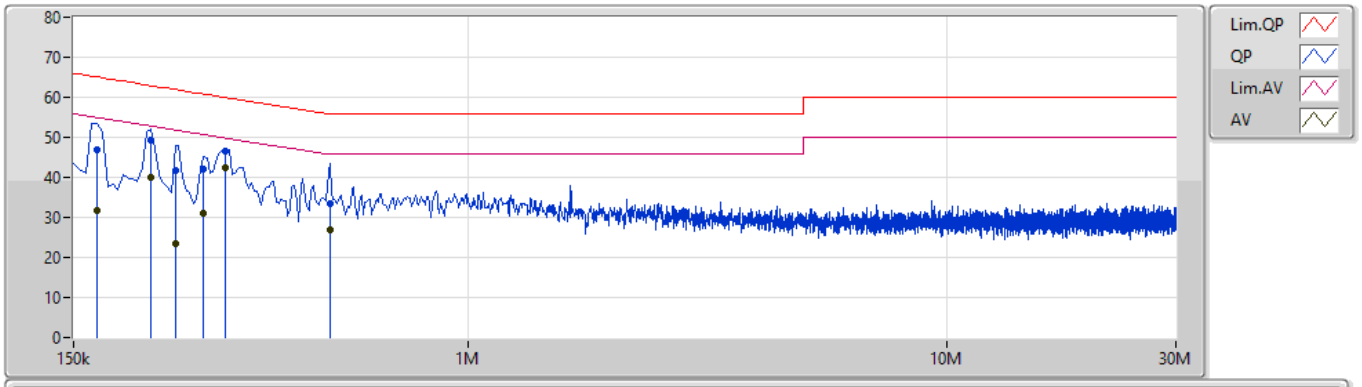
09/12/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	159k	48.93	65.52	-16.59	9.89	Line	-	39.04	0.04	0.04	9.81
AV	159k	31.59	55.52	-23.93	9.89	Line	-	21.70	0.04	0.04	9.81
QP	217.5k	49.78	62.92	-13.14	9.89	Line	-	39.89	0.04	0.04	9.81
AV	217.5k	40.31	52.92	-12.61	9.89	Line	-	30.42	0.04	0.04	9.81
QP	280.5k	40.70	60.80	-20.10	9.89	Line	-	30.81	0.04	0.04	9.81
AV	280.5k	23.51	50.80	-27.29	9.89	Line	-	13.62	0.04	0.04	9.81
QP	321k	46.38	59.67	-13.29	9.90	Line	-	36.48	0.04	0.04	9.82
AV	321k	38.36	49.67	-11.31	9.90	Line	"Worst"	28.46	0.04	0.04	9.82
QP	388.5k	39.68	58.10	-18.42	9.90	Line	-	29.78	0.04	0.04	9.82
AV	388.5k	30.24	48.10	-17.86	9.90	Line	-	20.34	0.04	0.04	9.82
QP	505.5k	32.36	56.00	-23.64	9.91	Line	-	22.45	0.05	0.04	9.82
AV	505.5k	23.77	46.00	-22.23	9.91	Line	-	13.86	0.05	0.04	9.82

Mode 1

09/12/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	168k	46.77	65.06	-18.29	9.88	Neutral	-	36.89	0.03	0.04	9.81
AV	168k	31.67	55.06	-23.39	9.88	Neutral	-	21.79	0.03	0.04	9.81
QP	217.5k	49.27	62.92	-13.65	9.88	Neutral	-	39.39	0.03	0.04	9.81
AV	217.5k	39.90	52.92	-13.02	9.88	Neutral	-	30.02	0.03	0.04	9.81
QP	244.5k	41.57	61.95	-20.38	9.88	Neutral	-	31.69	0.03	0.04	9.81
AV	244.5k	23.61	51.95	-28.34	9.88	Neutral	-	13.73	0.03	0.04	9.81
QP	280.5k	41.90	60.80	-18.90	9.88	Neutral	-	32.02	0.03	0.04	9.81
AV	280.5k	31.01	50.80	-19.79	9.88	Neutral	-	21.13	0.03	0.04	9.81
QP	312k	46.48	59.92	-13.44	9.89	Neutral	-	36.59	0.03	0.04	9.82
AV	312k	42.28	49.92	-7.64	9.89	Neutral	"Worst"	32.39	0.03	0.04	9.82
QP	514.5k	33.38	56.00	-22.62	9.90	Neutral	-	23.48	0.04	0.04	9.82
AV	514.5k	26.78	46.00	-19.22	9.90	Neutral	-	16.88	0.04	0.04	9.82

Test Mode: non-beamforming 2T1S mode
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	7.05M	10.97M	11M0G1D	7.025M	10.47M
802.11g_Nss1,(6Mbps)_2TX	16.325M	17.041M	17M0D1D	16.325M	16.842M

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

Result

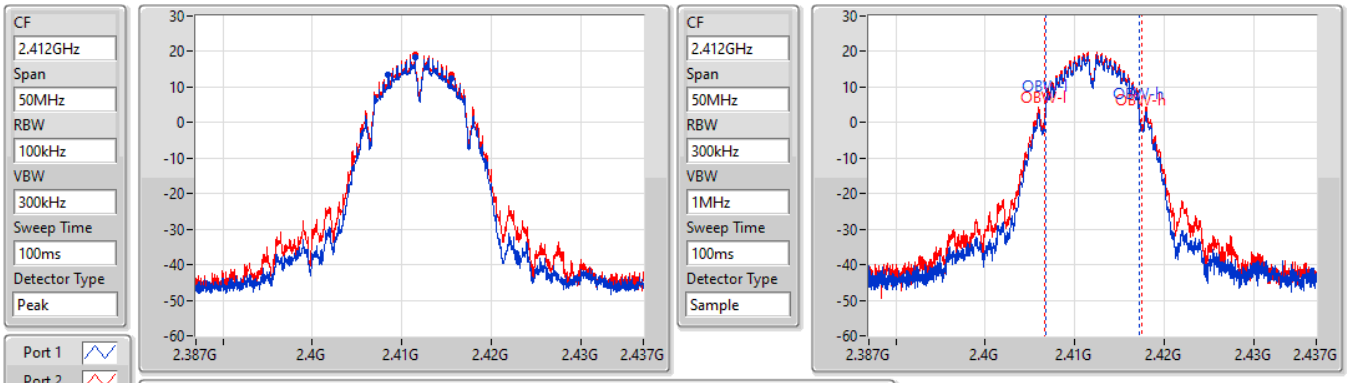
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.025M	10.47M	7.05M	10.87M
2437MHz	Pass	500k	7.025M	10.47M	7.05M	10.97M
2462MHz	Pass	500k	7.025M	10.47M	7.05M	10.77M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.842M	16.325M	17.016M
2437MHz	Pass	500k	16.325M	16.842M	16.325M	17.016M
2462MHz	Pass	500k	16.325M	16.917M	16.325M	17.041M

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

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

25/01/2022

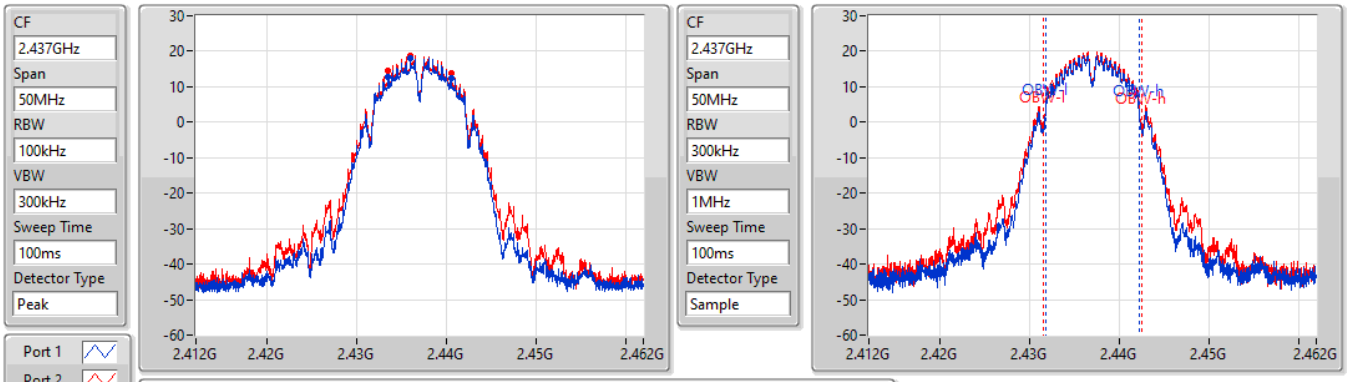


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.025M	2.4085G	2.415525G	10.47M	2.406778G	2.417247G	500k	1
7.05M	2.408475G	2.415525G	10.87M	2.406628G	2.417497G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

25/01/2022

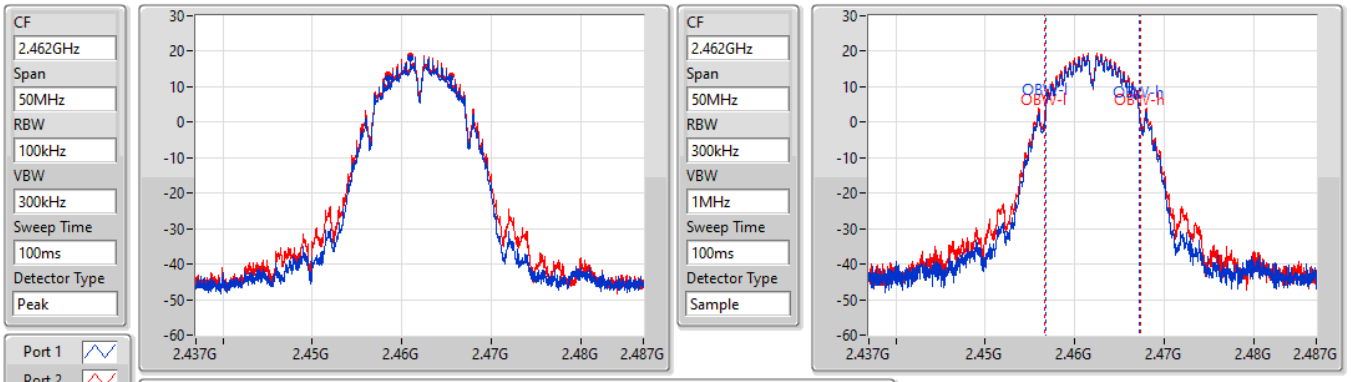


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.025M	2.433475G	2.4405G	10.47M	2.431753G	2.442222G	500k	1
7.05M	2.433475G	2.440525G	10.97M	2.431503G	2.442472G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

25/01/2022

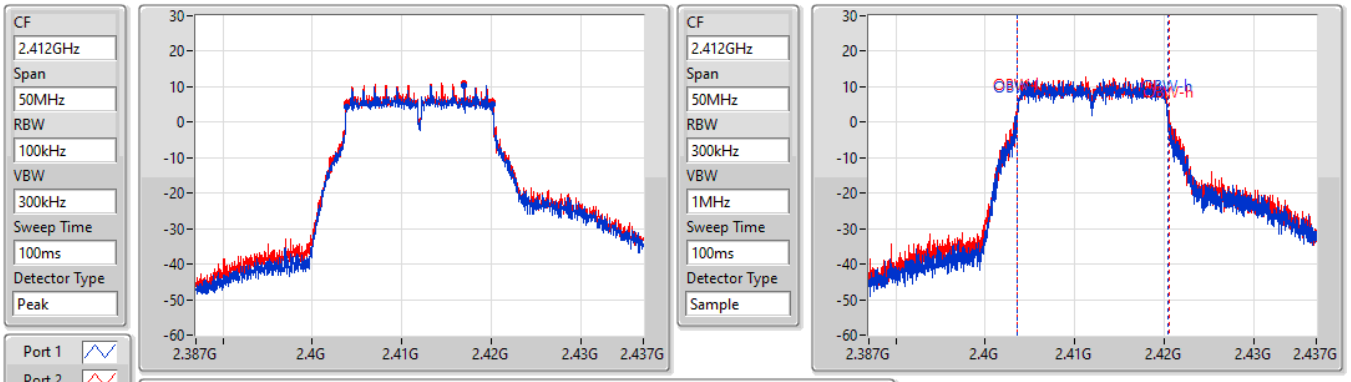


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.025M	2.45845G	2.465475G	10.47M	2.456753G	2.467222G	500k	1
7.05M	2.458475G	2.465525G	10.77M	2.456603G	2.467372G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

25/01/2022

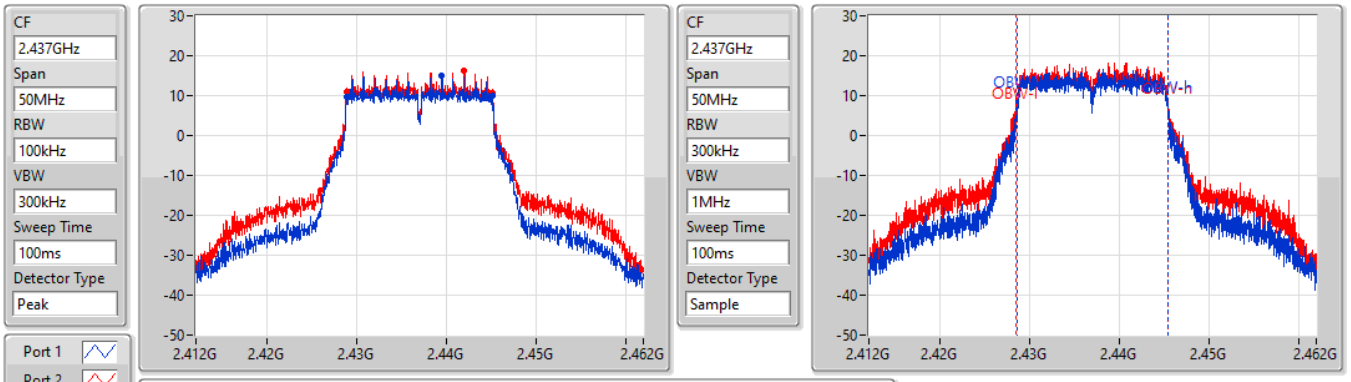


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.403825G	2.42015G	16.842M	2.403554G	2.420396G	500k	1
16.325M	2.403825G	2.42015G	17.016M	2.403529G	2.420546G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2437MHz

25/01/2022

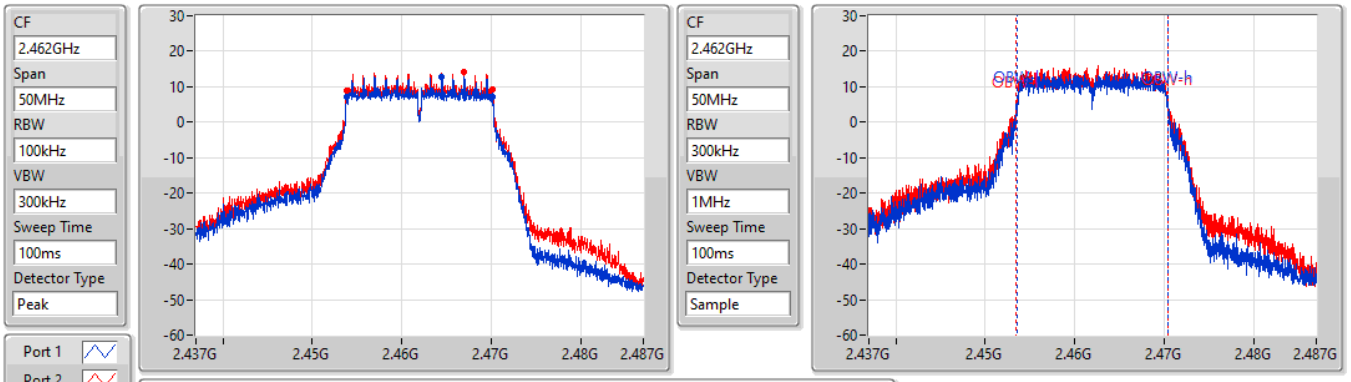


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.428825G	2.44515G	16.842M	2.428554G	2.445396G	500k	1
16.325M	2.428825G	2.44515G	17.016M	2.428479G	2.445496G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2462MHz

25/01/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.453825G	2.47015G	16.917M	2.453504G	2.470421G	500k	1
16.325M	2.453825G	2.47015G	17.041M	2.453404G	2.470446G	500k	2

Test Mode: non-beamforming 2T2S mode
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	18.95M	19.115M	19M1D1D	18.7M	19.065M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.65M	37.831M	37M8D1D	37.5M	37.731M

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

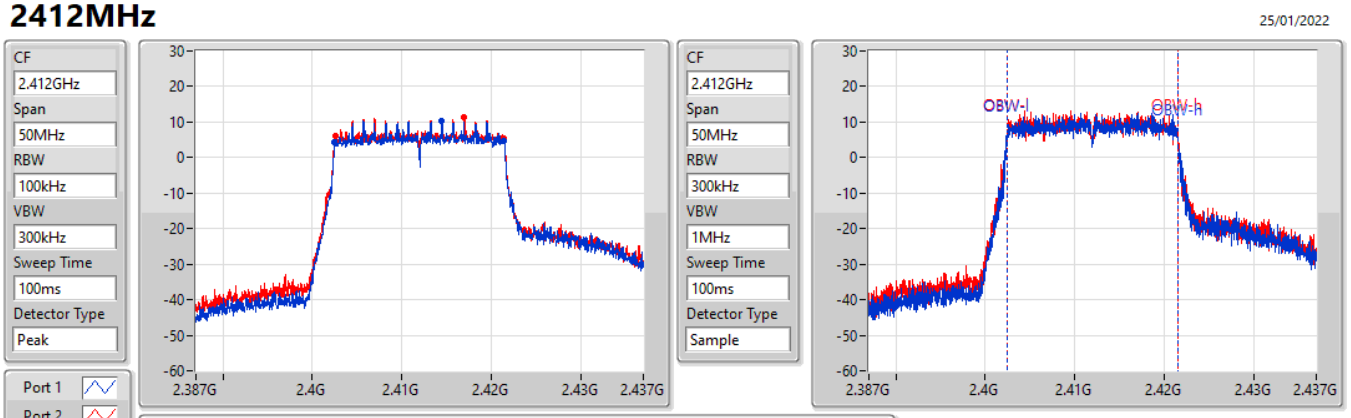
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.95M	19.065M	18.725M	19.09M
2417MHz						
2437MHz	Pass	500k	18.9M	19.065M	18.7M	19.115M
2457MHz						
2462MHz	Pass	500k	18.875M	19.09M	18.775M	19.09M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.6M	37.781M	37.55M	37.831M
2437MHz	Pass	500k	37.5M	37.731M	37.5M	37.831M
2452MHz	Pass	500k	37.6M	37.831M	37.65M	37.831M

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

802.11ax HEW20_Nss2,(MCS0)_2TX EBW

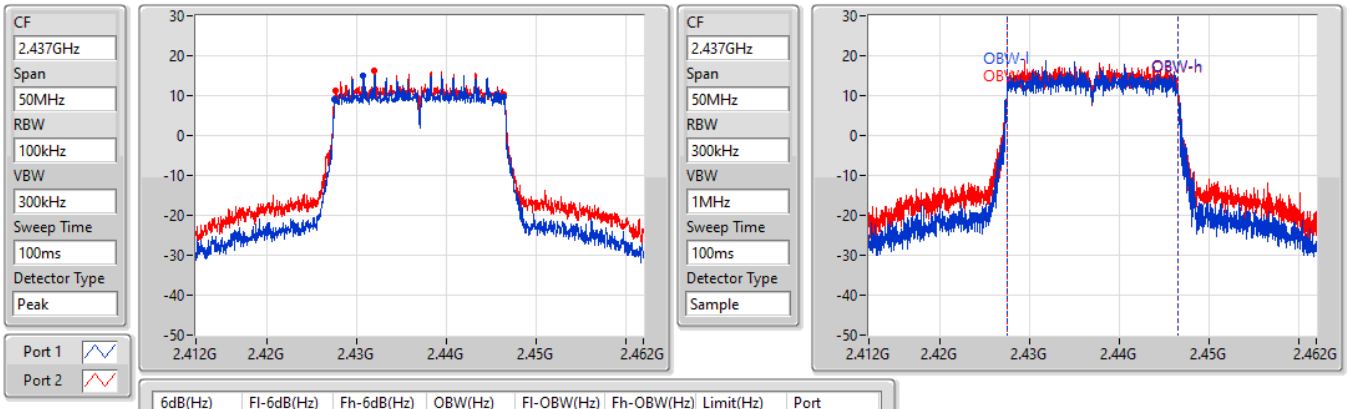
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.95M	2.4025G	2.42145G	19.065M	2.40248G	2.421545G	500k	1
18.725M	2.402625G	2.42135G	19.09M	2.402455G	2.421545G	500k	2

802.11ax HEW20_Nss2,(MCS0)_2TX EBW

2437MHz

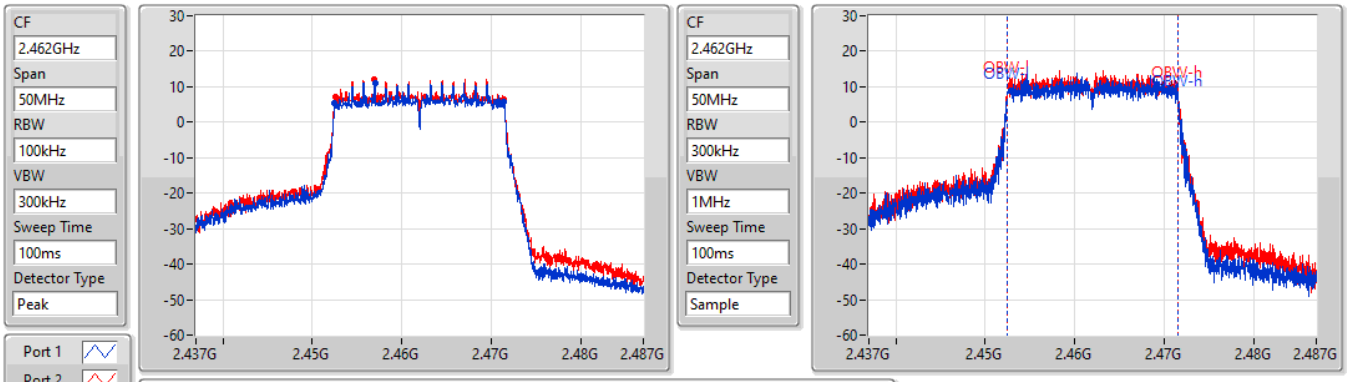


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.9M	2.4275G	2.4464G	19.065M	2.427455G	2.44652G	500k	1
18.7M	2.42765G	2.44635G	19.115M	2.42743G	2.446545G	500k	2

802.11ax HEW20_Nss2,(MCS0)_2TX EBW

2462MHz

25/01/2022

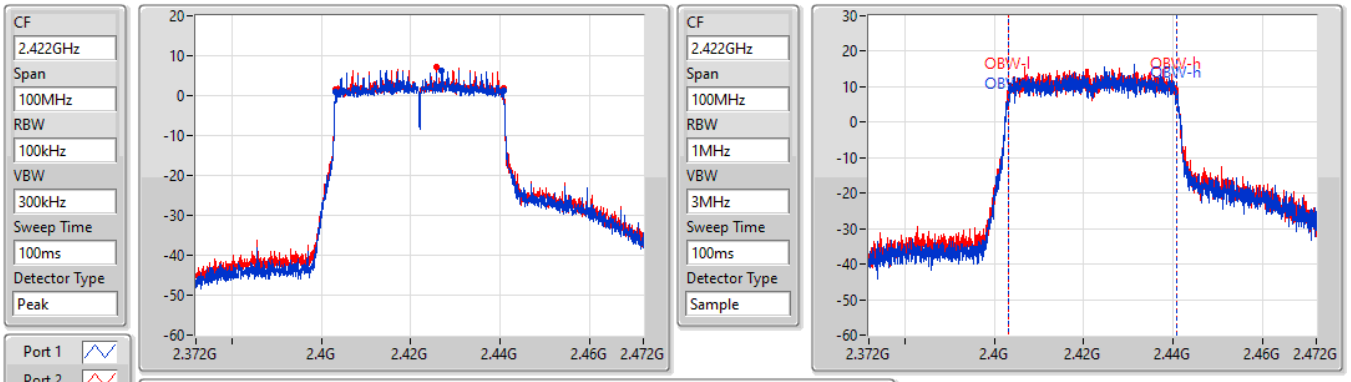


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.875M	2.452525G	2.4714G	19.09M	2.45243G	2.47152G	500k	1
18.775M	2.452575G	2.47135G	19.09M	2.45243G	2.47152G	500k	2

802.11ax HEW40_Nss2,(MCS0)_2TX EBW

2422MHz

25/01/2022

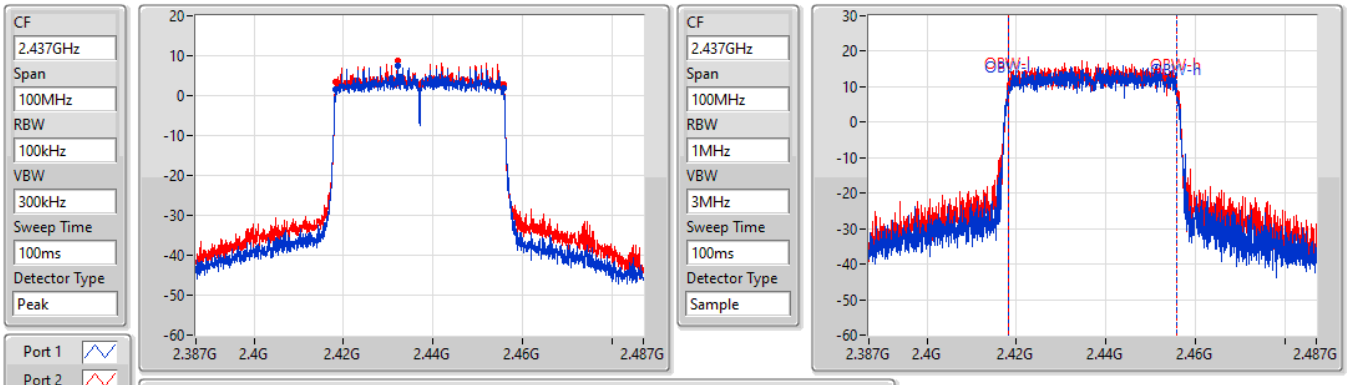


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.6M	2.40315G	2.44075G	37.781M	2.403159G	2.440941G	500k	1
37.55M	2.40325G	2.4408G	37.831M	2.403109G	2.440941G	500k	2

802.11ax HEW40_Nss2,(MCS0)_2TX EBW

2437MHz

25/01/2022

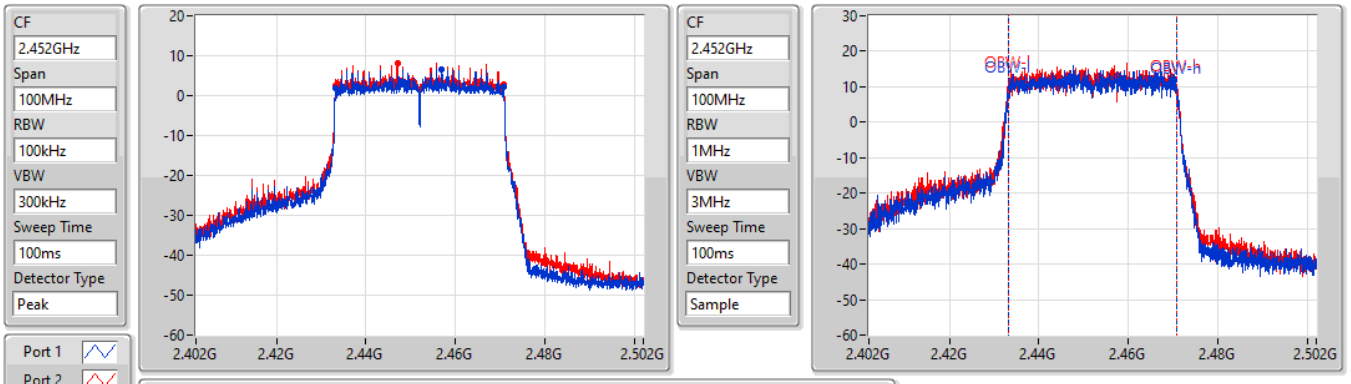


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.5M	2.41825G	2.45575G	37.731M	2.418109G	2.455841G	500k	1
37.5M	2.41825G	2.45575G	37.831M	2.418059G	2.455891G	500k	2

802.11ax HEW40_Nss2,(MCS0)_2TX EBW

2452MHz

25/01/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.6M	2.43315G	2.47075G	37.831M	2.433059G	2.470891G	500k	1
37.65M	2.43315G	2.4708G	37.831M	2.433059G	2.470891G	500k	2

Test Mode: beamforming 2T1S mode
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.95M	19.09M	19M1D1D	18.225M	19.015M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.6M	37.881M	37M9D1D	37M	37.731M

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

Result

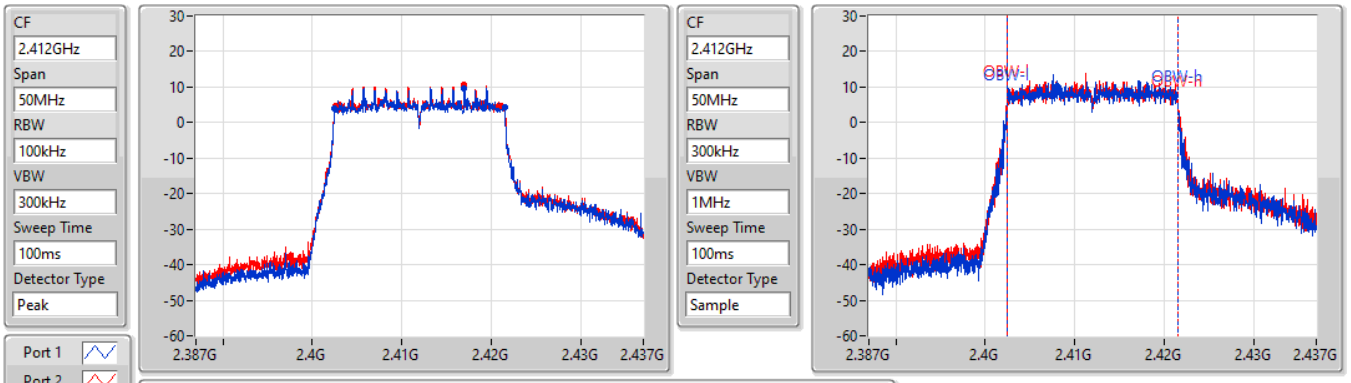
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.95M	19.04M	18.475M	19.09M
2437MHz	Pass	500k	18.925M	19.065M	18.225M	19.09M
2462MHz	Pass	500k	18.925M	19.015M	18.525M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.55M	37.831M	37.6M	37.881M
2437MHz	Pass	500k	37.45M	37.781M	37M	37.731M
2452MHz	Pass	500k	37.6M	37.831M	37.6M	37.881M

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

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

2412MHz

25/01/2022

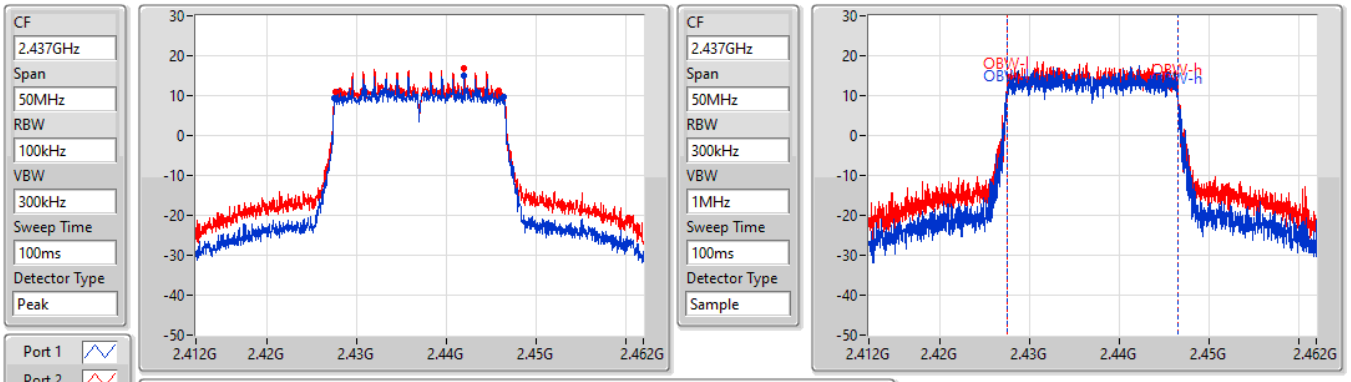


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.95M	2.402525G	2.421475G	19.04M	2.40248G	2.42152G	500k	1
18.475M	2.4026G	2.421075G	19.09M	2.402455G	2.421545G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

2437MHz

25/01/2022

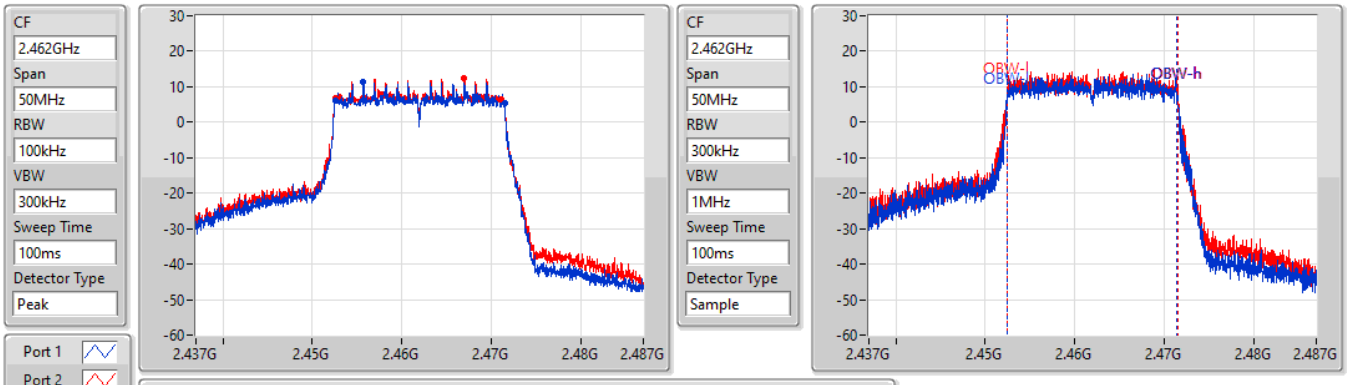


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.925M	2.427525G	2.44645G	19.065M	2.42743G	2.446495G	500k	1
18.225M	2.427625G	2.44585G	19.09M	2.427455G	2.446545G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

2462MHz

25/01/2022

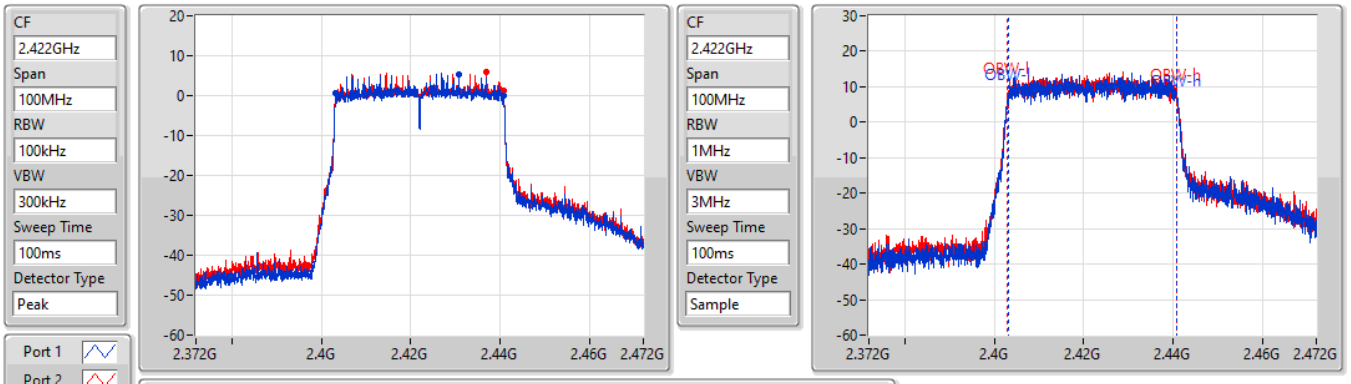


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.925M	2.45255G	2.471475G	19.015M	2.452455G	2.47147G	500k	1
18.525M	2.452575G	2.4711G	19.04M	2.452455G	2.471495G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

2422MHz

25/01/2022

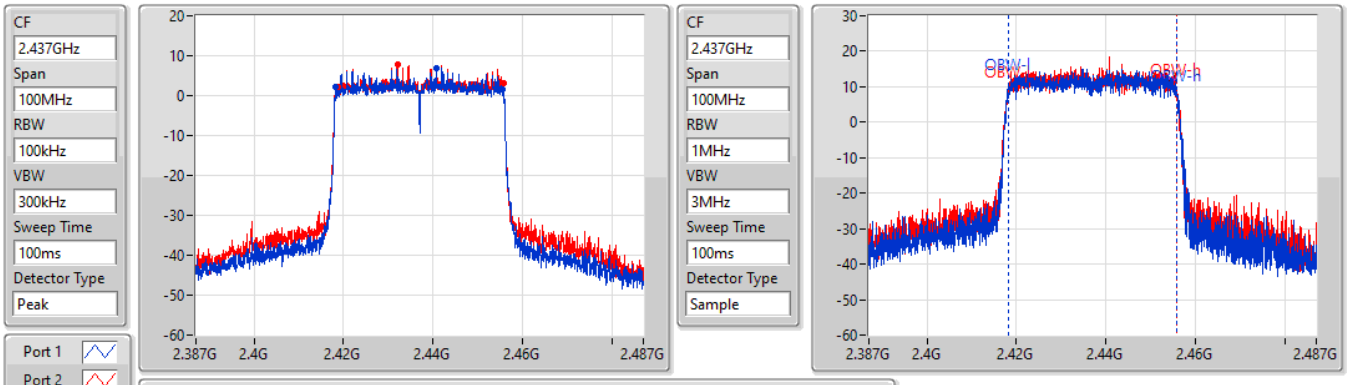


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.55M	2.40325G	2.4408G	37.831M	2.403059G	2.440891G	500k	1
37.6M	2.4032G	2.4408G	37.881M	2.403009G	2.440891G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

2437MHz

25/01/2022

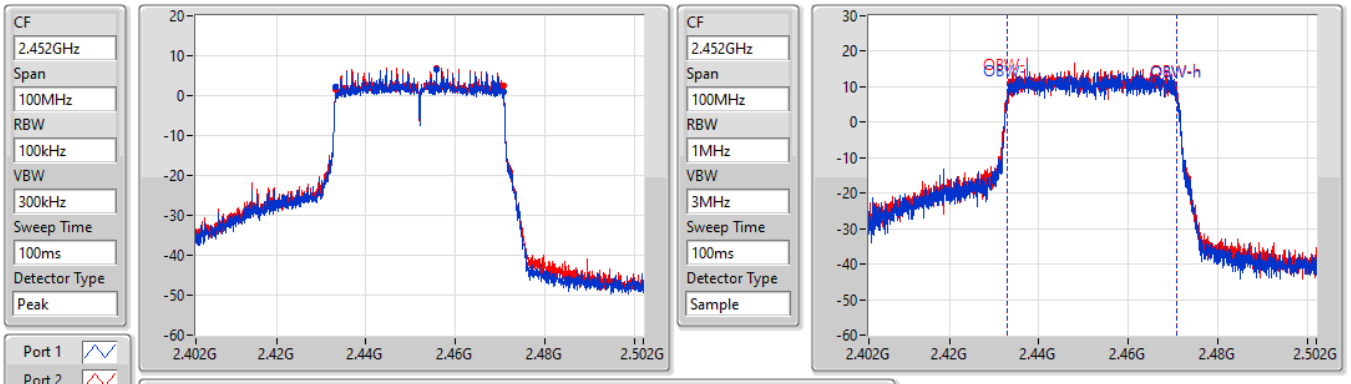


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.45M	2.4182G	2.45565G	37.781M	2.418059G	2.455841G	500k	1
37M	2.41875G	2.45575G	37.731M	2.418109G	2.455841G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

2452MHz

25/01/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.6M	2.4332G	2.4708G	37.831M	2.433009G	2.470841G	500k	1
37.6M	2.4332G	2.4708G	37.881M	2.433009G	2.470891G	500k	2

Test Mode: non-beamforming 2T1S mode:
Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	29.95	0.98855
802.11g_Nss1,(6Mbps)_2TX	29.85	0.96605

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.94	26.40	27.31	29.89	30.00
2437MHz	Pass	3.94	26.46	27.37	29.95	30.00
2462MHz	Pass	3.94	26.34	27.25	29.83	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.94	21.66	22.25	24.98	30.00
2417MHz	Pass	3.94	24.05	25.14	27.64	30.00
2437MHz	Pass	3.94	26.24	27.36	29.85	30.00
2457MHz	Pass	3.94	25.21	26.47	28.90	30.00
2462MHz	Pass	3.94	24.13	25.37	27.80	30.00

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

Test Mode: non-beamforming 2T2S mode:
Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	29.97	0.99312
802.11ax HEW40_Nss2,(MCS0)_2TX	25.66	0.36813

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.94	21.57	22.24	24.93	30.00
2417MHz	Pass	3.94	24.18	25.07	27.66	30.00
2437MHz	Pass	3.94	26.30	27.54	29.97	30.00
2457MHz	Pass	3.94	24.50	25.54	28.06	30.00
2462MHz	Pass	3.94	22.25	23.44	25.90	30.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.94	20.82	21.37	24.11	30.00
2437MHz	Pass	3.94	22.15	23.09	25.66	30.00
2452MHz	Pass	3.94	21.90	22.75	25.36	30.00

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

Test Mode: beamforming 2T1S mode:
Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	29.96	0.99083
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.16	0.32810

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.38	20.94	21.51	24.24	30.00
2417MHz	Pass	5.38	23.48	24.49	27.02	30.00
2437MHz	Pass	5.38	26.26	27.54	29.96	30.00
2457MHz	Pass	5.38	24.55	25.56	28.09	30.00
2462MHz	Pass	5.38	22.51	23.48	26.03	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.38	20.12	20.54	23.35	30.00
2437MHz	Pass	5.38	21.83	22.44	25.16	30.00
2452MHz	Pass	5.38	21.11	21.76	24.46	30.00

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

Test Mode: non-beamforming 2T1S mode:
Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	6.43
802.11g_Nss1,(6Mbps)_2TX	3.56

RBW = 3kHz;

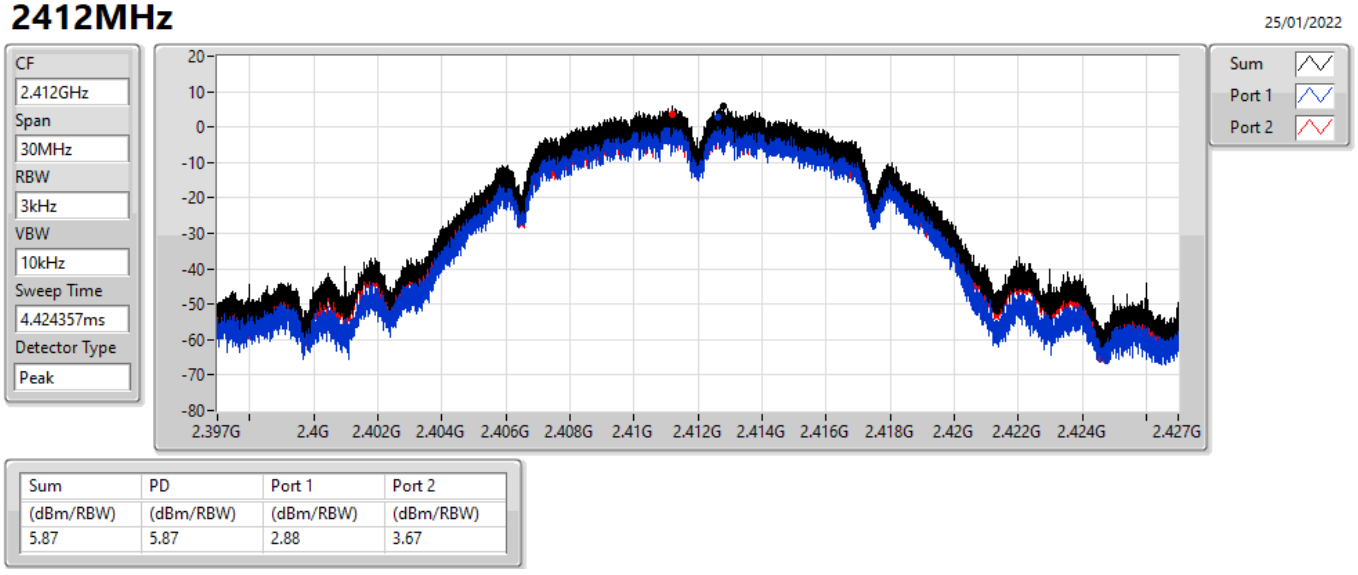
Result

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	5.38	2.88	3.67	5.87	8.00
2437MHz	Pass	5.38	4.02	4.85	6.43	8.00
2462MHz	Pass	5.38	3.32	4.14	5.76	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.38	-4.47	-3.47	-0.96	8.00
2437MHz	Pass	5.38	-0.07	1.20	3.56	8.00
2462MHz	Pass	5.38	-1.58	-0.50	2.00	8.00

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

802.11b_Nss1,(1Mbps)_2TX PSD

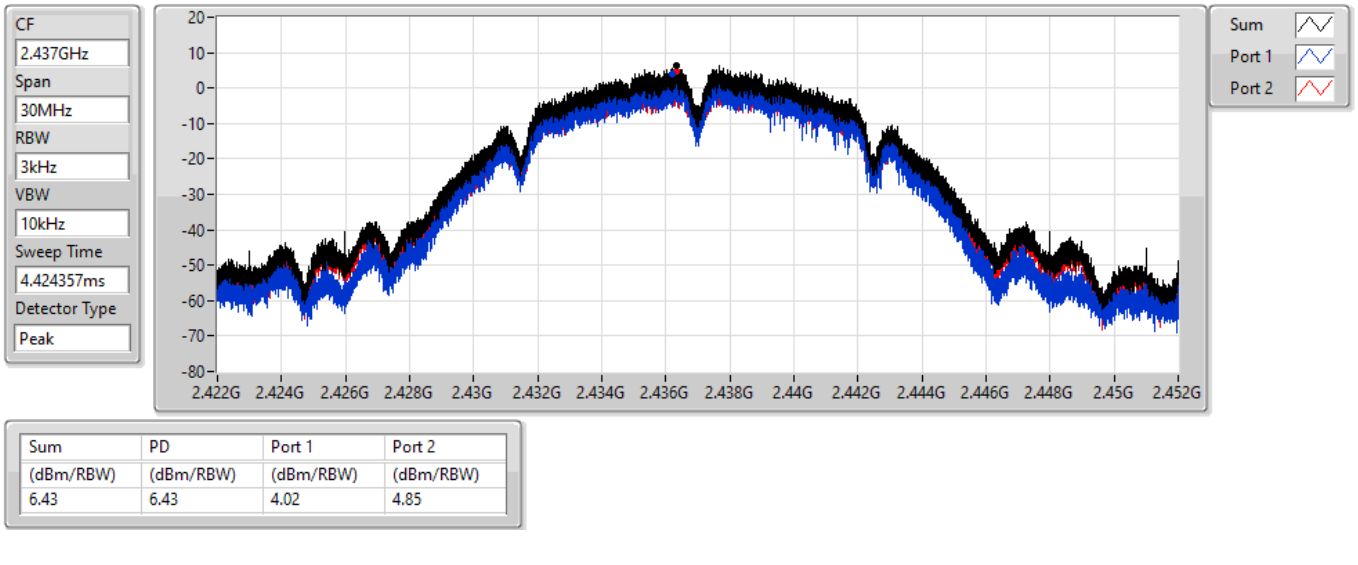
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.87	5.87	2.88	3.67

802.11b_Nss1,(1Mbps)_2TX PSD

2437MHz

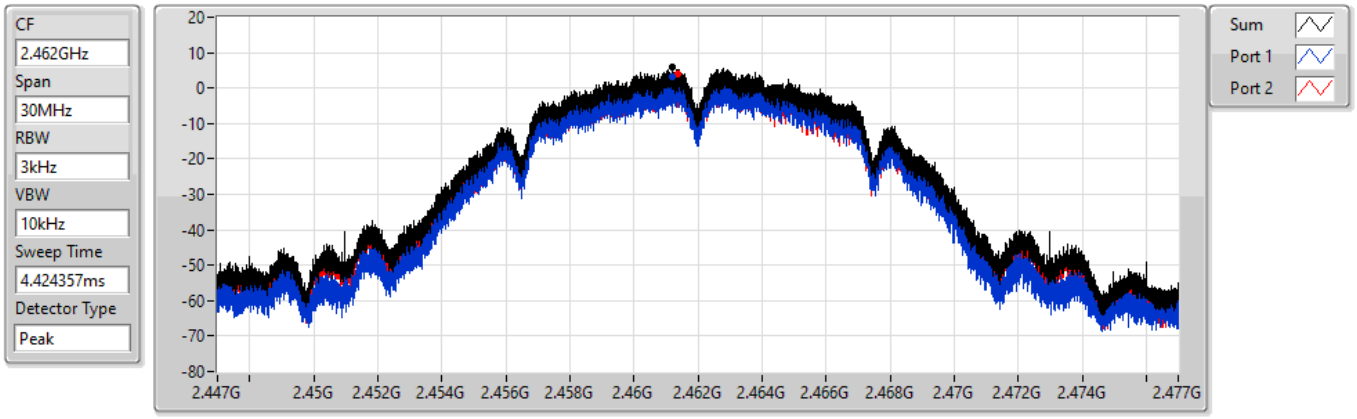


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.43	6.43	4.02	4.85

802.11b_Nss1,(1Mbps)_2TX PSD

2462MHz

25/01/2022

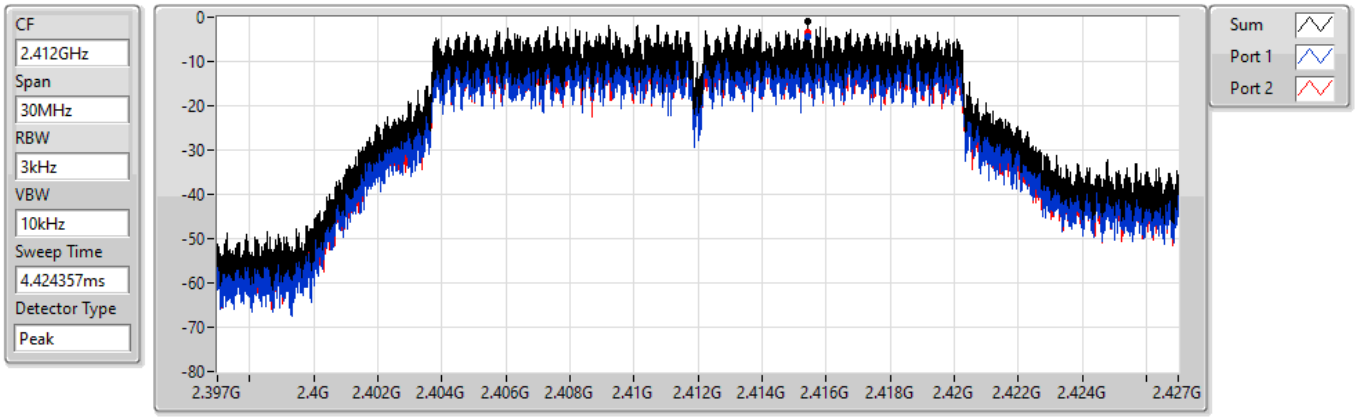


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.76	5.76	3.32	4.14

802.11g_Nss1,(6Mbps)_2TX PSD

2412MHz

25/01/2022

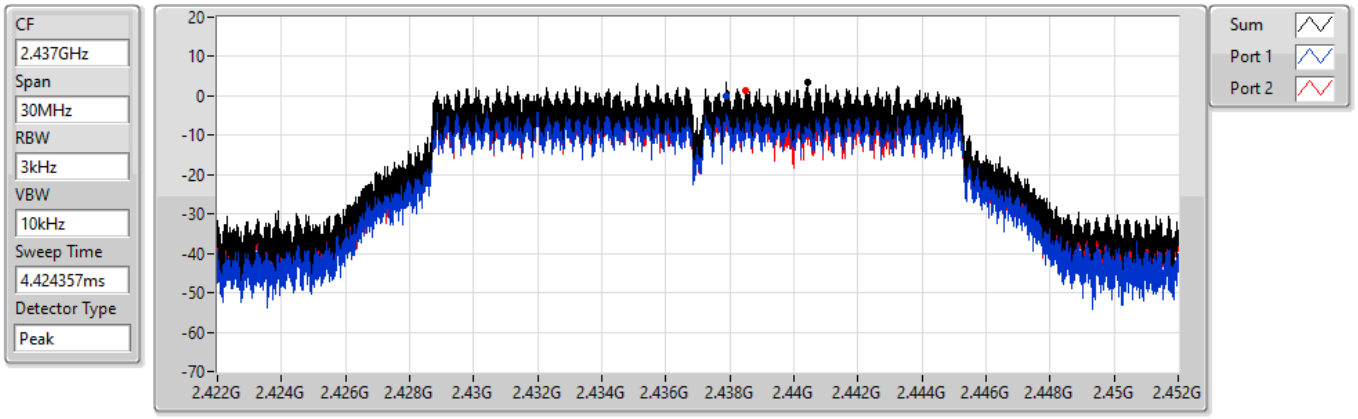


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.96	-0.96	-4.47	-3.47

802.11g_Nss1,(6Mbps)_2TX PSD

2437MHz

25/01/2022

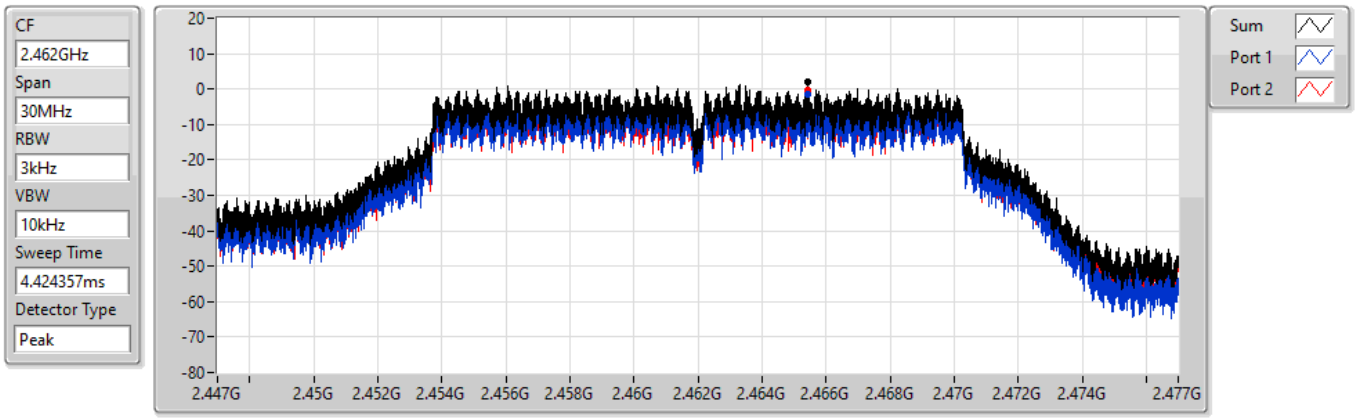


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.56	3.56	-0.07	1.20

802.11g_Nss1,(6Mbps)_2TX PSD

2462MHz

25/01/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.00	2.00	-1.58	-0.50

Test Mode: non-beamforming 2T2S mode:
Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20_Nss2,(MCS0)_2TX	1.22
802.11ax HEW40_Nss2,(MCS0)_2TX	-5.04

RBW = 3kHz;

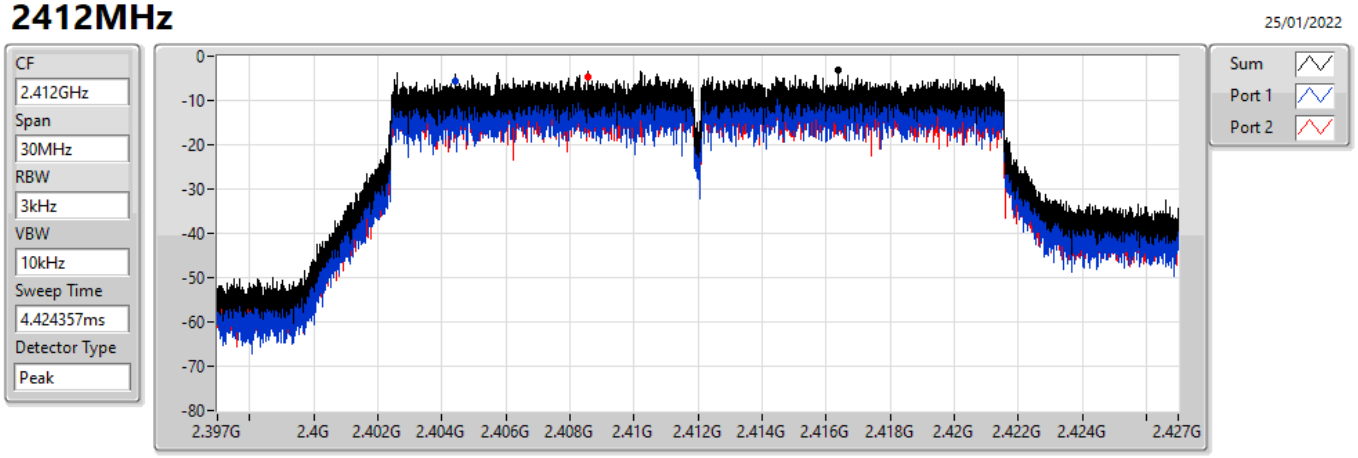
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.46	-5.59	-4.74	-3.13	8.00
2437MHz	Pass	2.46	-1.72	-0.04	1.22	8.00
2462MHz	Pass	2.46	-4.96	-4.81	-2.76	8.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.46	-8.36	-7.97	-6.62	8.00
2437MHz	Pass	2.46	-7.22	-6.21	-5.04	8.00
2452MHz	Pass	2.46	-8.24	-6.69	-5.78	8.00

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

802.11ax HEW20_Nss2,(MCS0)_2TX PSD

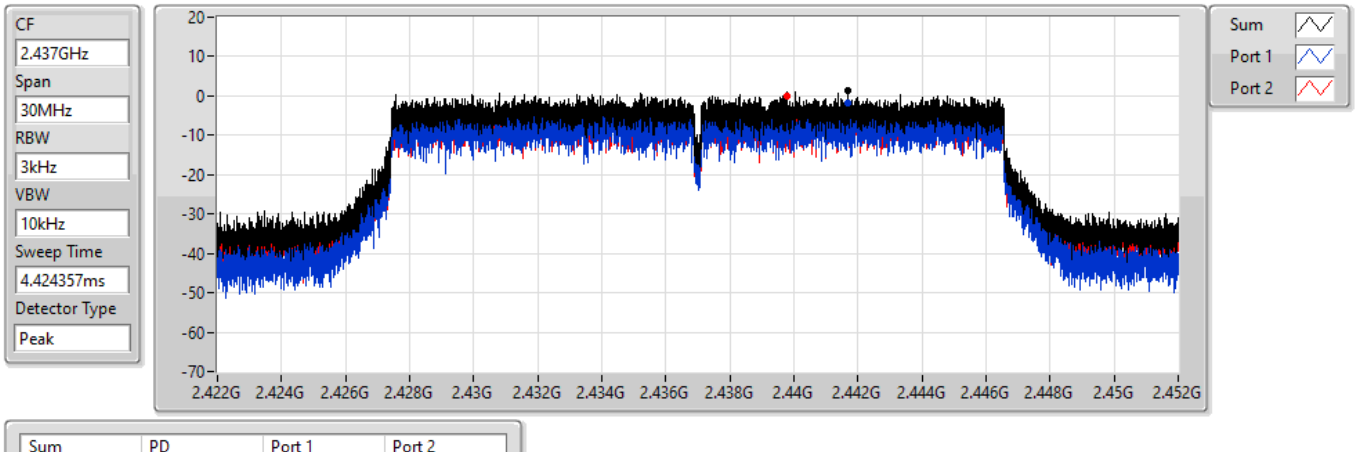
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.13	-3.13	-5.59	-4.74

802.11ax HEW20_Nss2,(MCS0)_2TX PSD

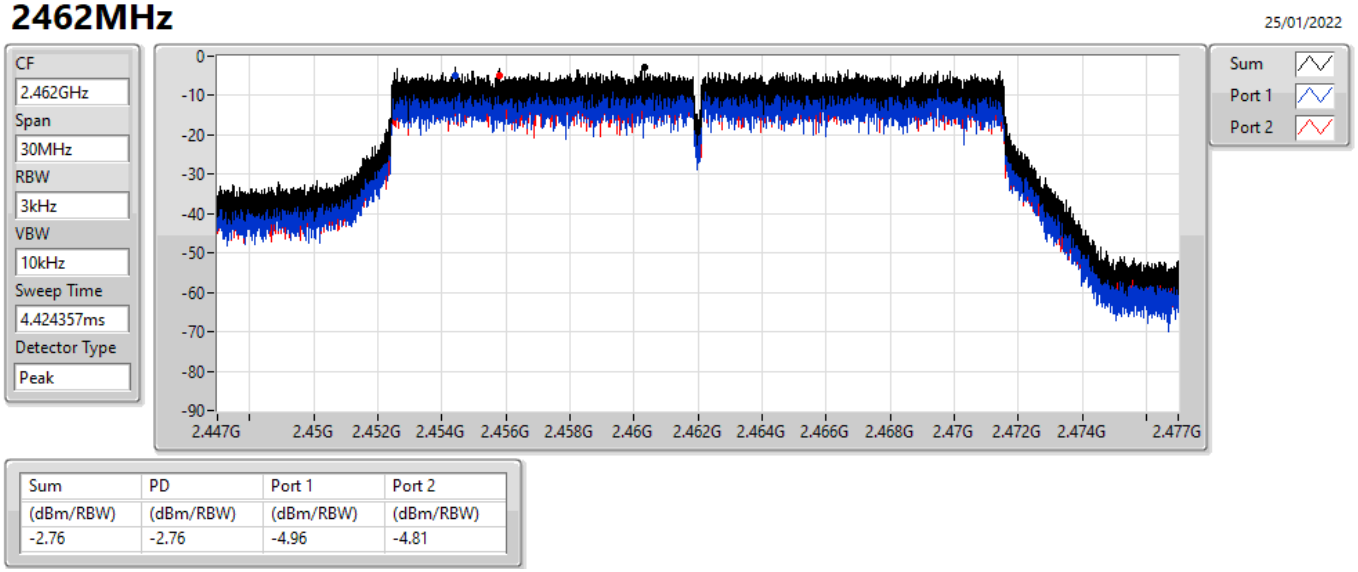
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.22	1.22	-1.72	-0.04

802.11ax HEW20_Nss2,(MCS0)_2TX PSD

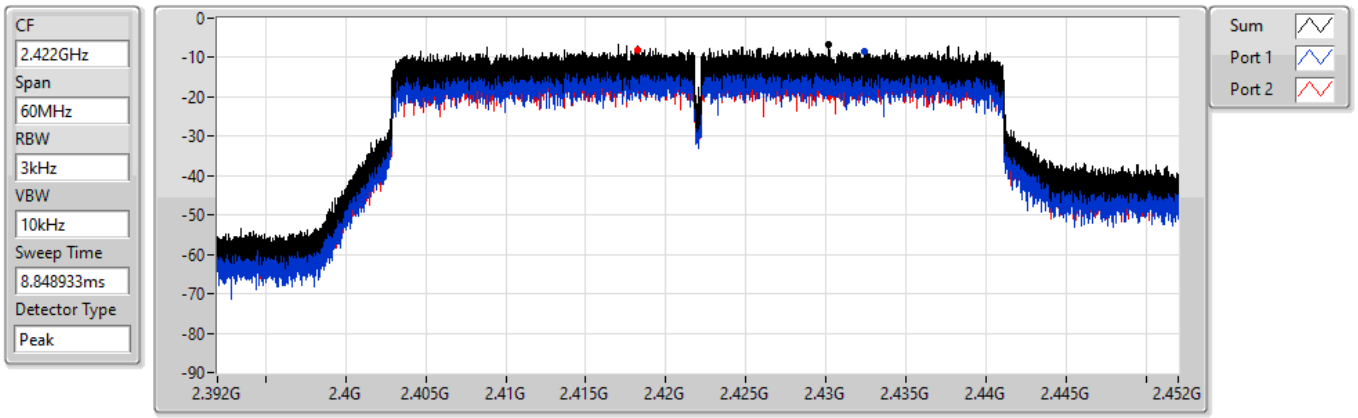
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.76	-2.76	-4.96	-4.81

802.11ax HEW40_Nss2,(MCS0)_2TX PSD

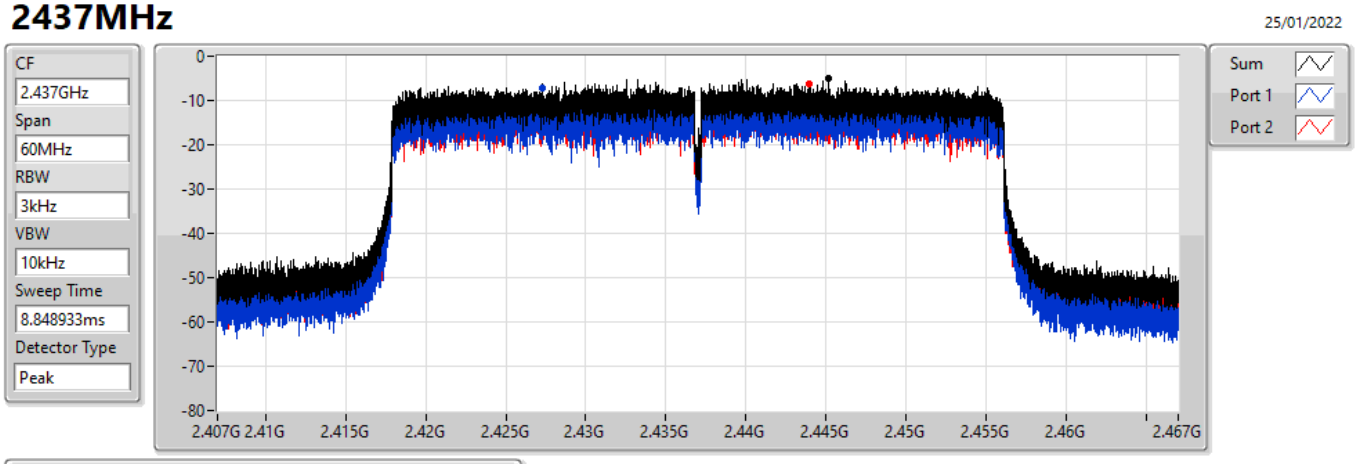
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.62	-6.62	-8.36	-7.97

802.11ax HEW40_Nss2,(MCS0)_2TX PSD

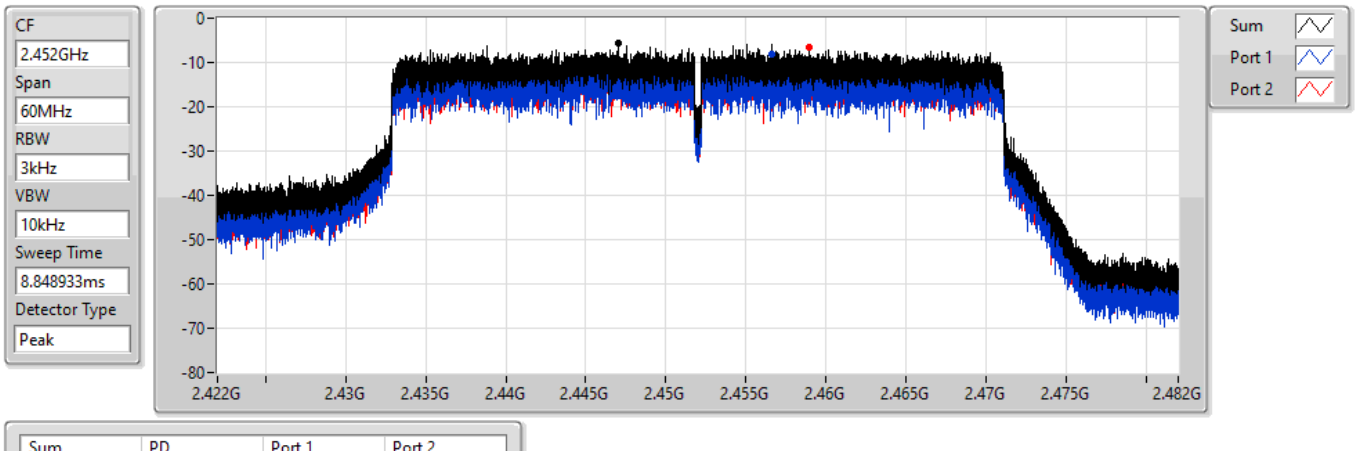
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.04	-5.04	-7.22	-6.21

802.11ax HEW40_Nss2,(MCS0)_2TX PSD

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.78	-5.78	-8.24	-6.69

Test Mode: beamforming 2T1S mode:
Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	2.46
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-3.23

RBW = 3kHz;

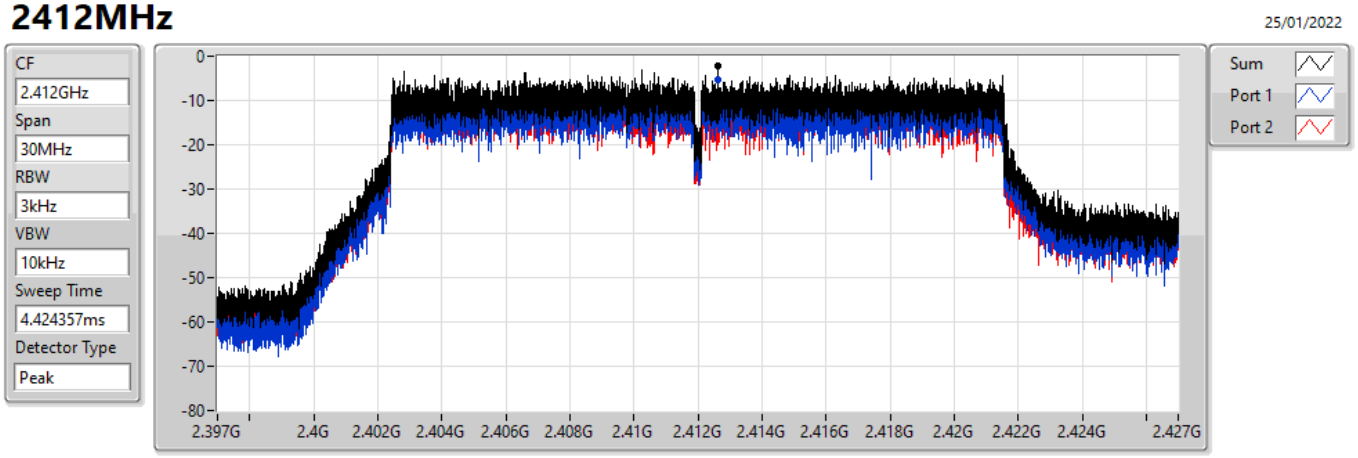
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.38	-5.31	-5.29	-2.29	8.00
2437MHz	Pass	5.38	-0.73	0.52	2.46	8.00
2462MHz	Pass	5.38	-4.28	-3.25	-0.78	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.38	-9.34	-7.73	-5.84	8.00
2437MHz	Pass	5.38	-6.80	-5.75	-3.23	8.00
2452MHz	Pass	5.38	-7.35	-7.04	-4.38	8.00

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

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

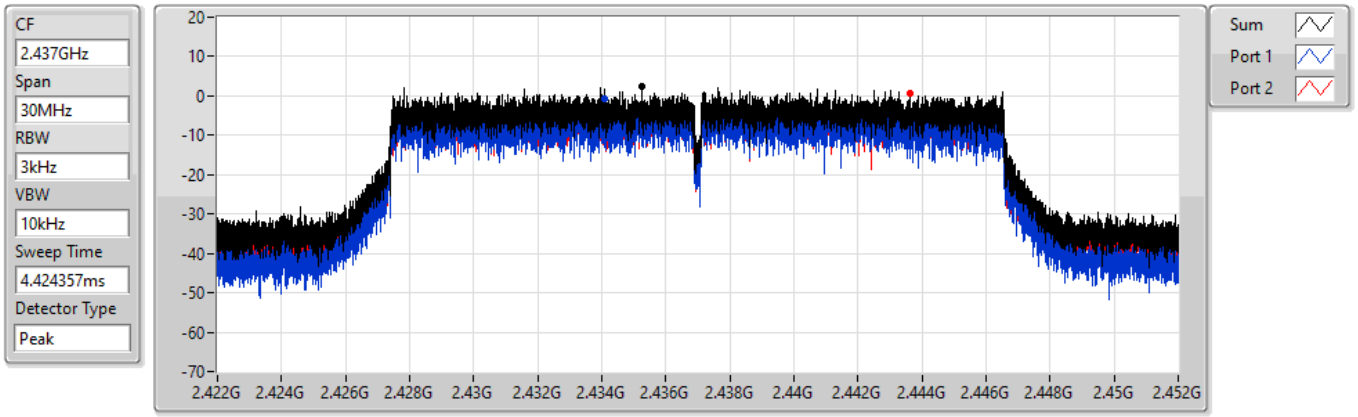
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.29	-2.29	-5.31	-5.29

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

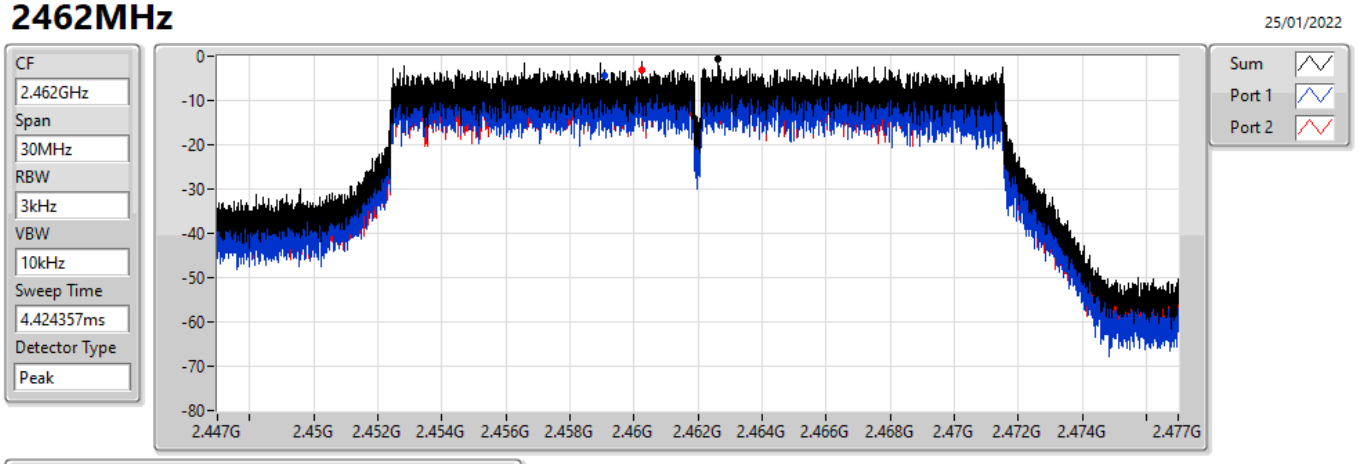
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.46	2.46	-0.73	0.52

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

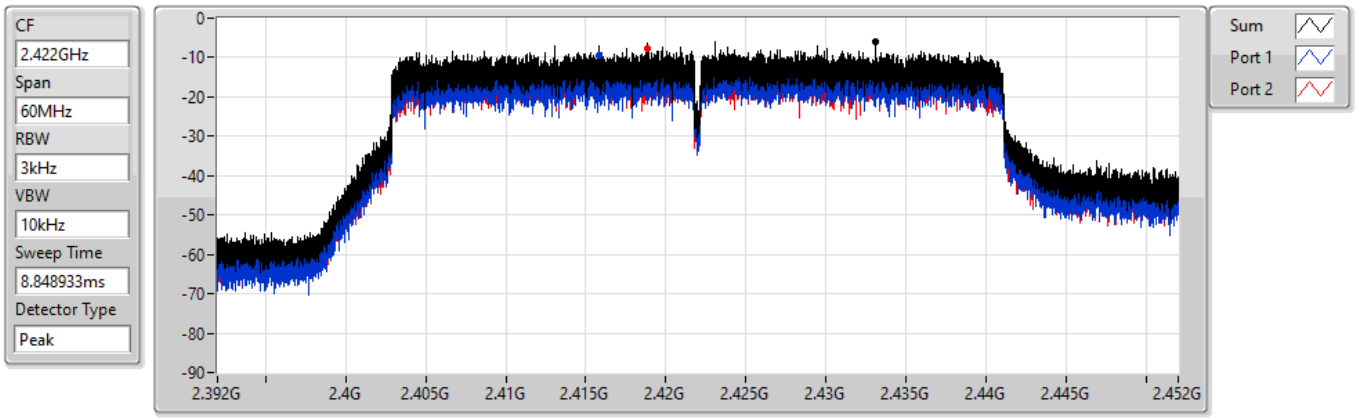
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.78	-0.78	-4.28	-3.25

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

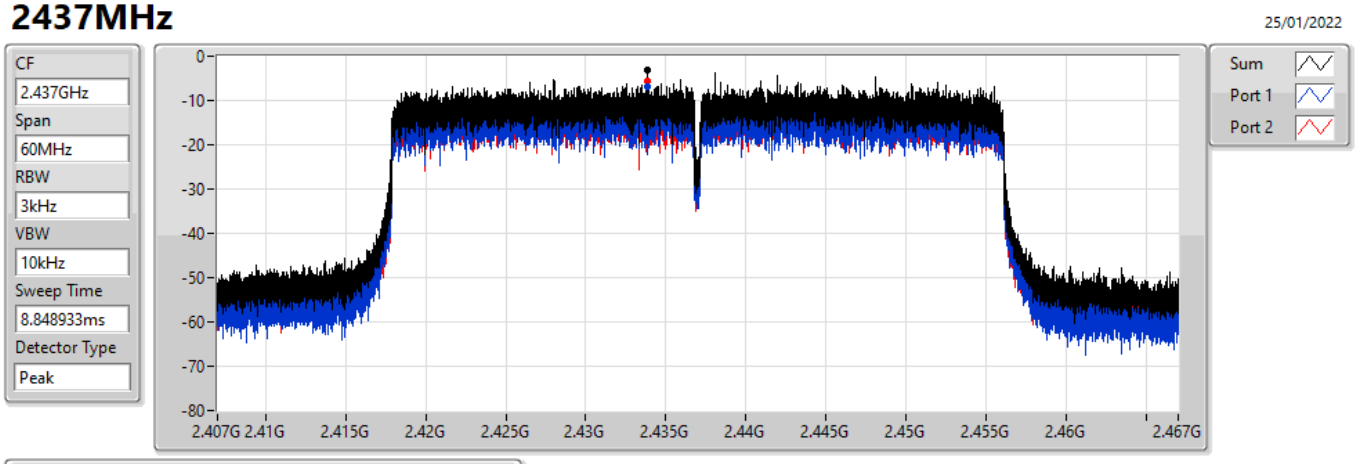
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.84	-5.84	-9.34	-7.73

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

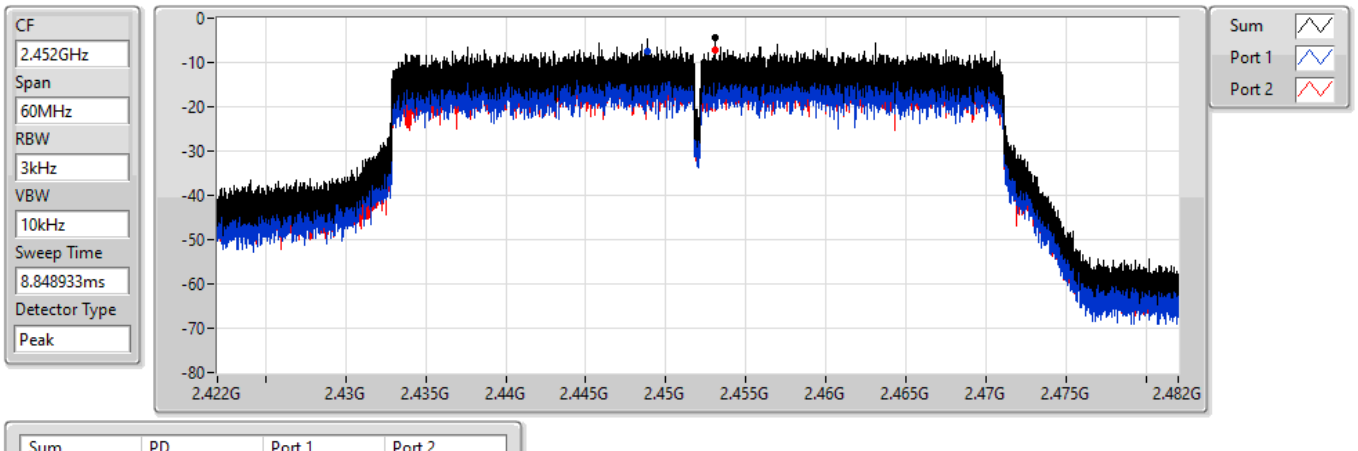
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.23	-3.23	-6.80	-5.75

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.38	-4.38	-7.35	-7.04

Test Mode: non-beamforming 2T1S mode:
Summary

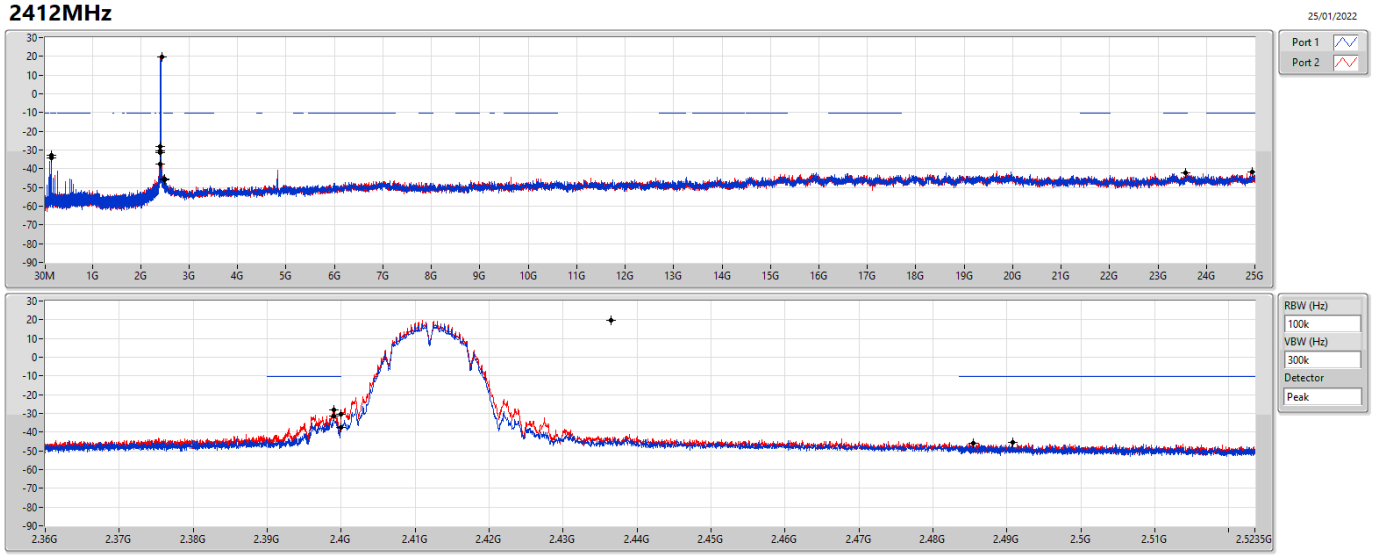
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43649G	19.60	-10.40	159.9M	-32.93	2.39902G	-28.08	2.4G	-30.61	2.49072G	-45.50	24.94381G	-41.76	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.442G	16.69	-13.31	159.9M	-33.79	2.39986G	-31.51	2.4G	-32.82	2.50556G	-47.06	23.59241G	-42.11	2

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43649G	19.60	-10.40	159.9M	-33.99	2.399G	-31.27	2.4G	-37.46	2.4854G	-46.00	23.57836G	-42.18	1
2412MHz	Pass	2.43649G	19.60	-10.40	159.9M	-32.93	2.39902G	-28.08	2.4G	-30.61	2.49072G	-45.50	24.94381G	-41.76	2
2437MHz	Pass	2.43649G	19.60	-10.40	159.9M	-33.38	2.3967G	-45.27	2.4G	-46.75	2.48632G	-44.80	17.60523G	-42.01	1
2437MHz	Pass	2.43649G	19.60	-10.40	159.9M	-34.39	2.4G	-43.86	2.4G	-45.98	2.48792G	-43.60	16.58817G	-42.23	2
2462MHz	Pass	2.43649G	19.60	-10.40	159.9M	-33.59	2.399G	-45.92	2.4835G	-46.35	2.48446G	-40.87	16.64155G	-42.26	1
2462MHz	Pass	2.43649G	19.60	-10.40	159.9M	-35.01	2.399G	-44.48	2.4835G	-43.71	2.485G	-38.13	17.60242G	-42.32	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	16.69	-13.31	159.9M	-34.68	2.39996G	-34.89	2.4G	-34.67	2.51158G	-48.01	23.36483G	-42.96	1
2412MHz	Pass	2.442G	16.69	-13.31	159.9M	-33.79	2.39986G	-31.51	2.4G	-32.82	2.50556G	-47.06	23.59241G	-42.11	2
2437MHz	Pass	2.442G	16.69	-13.31	159.9M	-33.79	2.39634G	-42.76	2.4G	-43.66	2.48526G	-44.11	23.2946G	-42.10	1
2437MHz	Pass	2.442G	16.69	-13.31	159.9M	-35.39	2.39984G	-40.36	2.4G	-41.89	2.4854G	-42.35	16.97589G	-42.42	2
2462MHz	Pass	2.442G	16.69	-13.31	159.9M	-33.75	2.39166G	-45.41	2.4835G	-43.59	2.48394G	-42.06	24.51676G	-42.43	1
2462MHz	Pass	2.442G	16.69	-13.31	159.9M	-35.30	2.39912G	-45.67	2.4835G	-37.51	2.48384G	-36.85	16.24821G	-42.11	2

802.11b_Nss1,(1Mbps)_2TX **CSENdB**

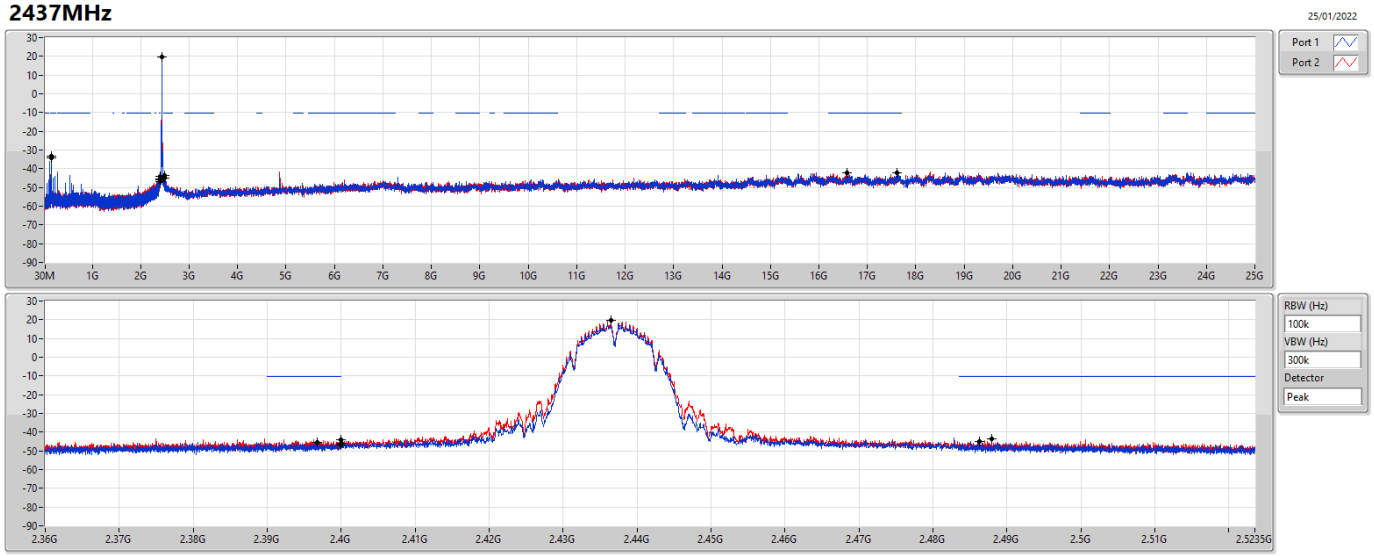
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43649G	19.60	-10.40	159.9M	-33.99	2.399G	-31.27	2.4G	-37.46	2.4854G	-46.00	23.57836G	-42.18	1
2.43649G	19.60	-10.40	159.9M	-32.93	2.39902G	-28.08	2.4G	-30.61	2.49072G	-45.50	24.94381G	-41.76	2

802.11b_Nss1,(1Mbps)_2TX **CSENdB**

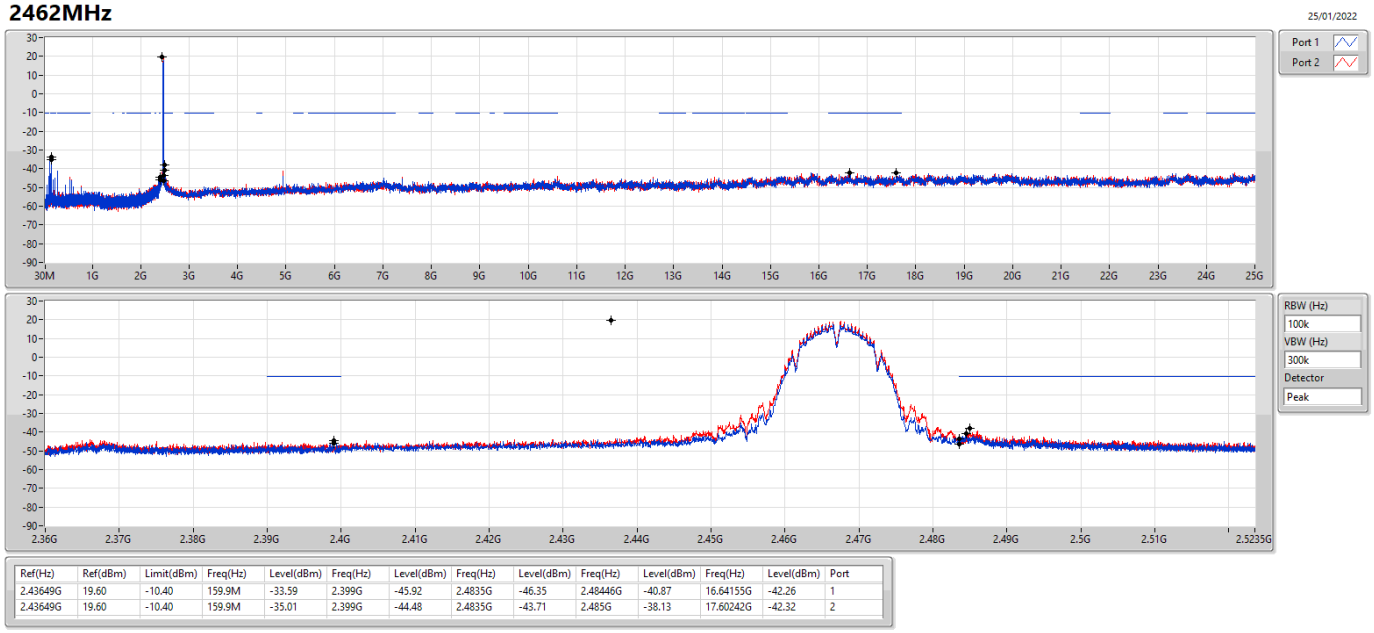
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43649G	19.60	-10.40	159.9M	-33.38	2.3967G	-45.27	2.4G	-46.75	2.48632G	-44.80	17.60523G	-42.01	1
2.43649G	19.60	-10.40	159.9M	-34.39	2.4G	-43.86	2.4G	-45.98	2.48792G	-43.60	16.58817G	-42.23	2

802.11b_Nss1,(1Mbps)_2TX **CSENdB**

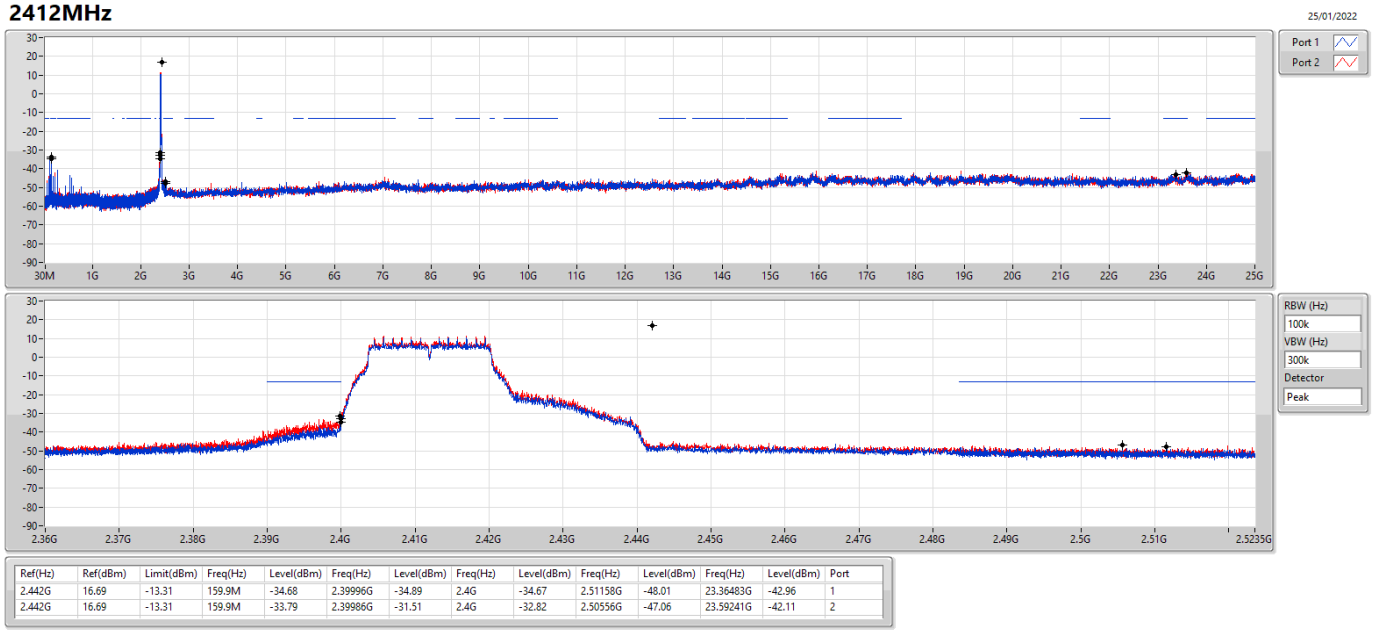
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43649G	19.60	-10.40	159.9M	-33.59	2.399G	-45.92	2.4835G	-46.35	2.48446G	-40.87	16.64155G	-42.26	1
2.43649G	19.60	-10.40	159.9M	-35.01	2.399G	-44.48	2.4835G	-43.71	2.485G	-38.13	17.60242G	-42.32	2

802.11g_Nss1,(6Mbps)_2TX **CSENdB**

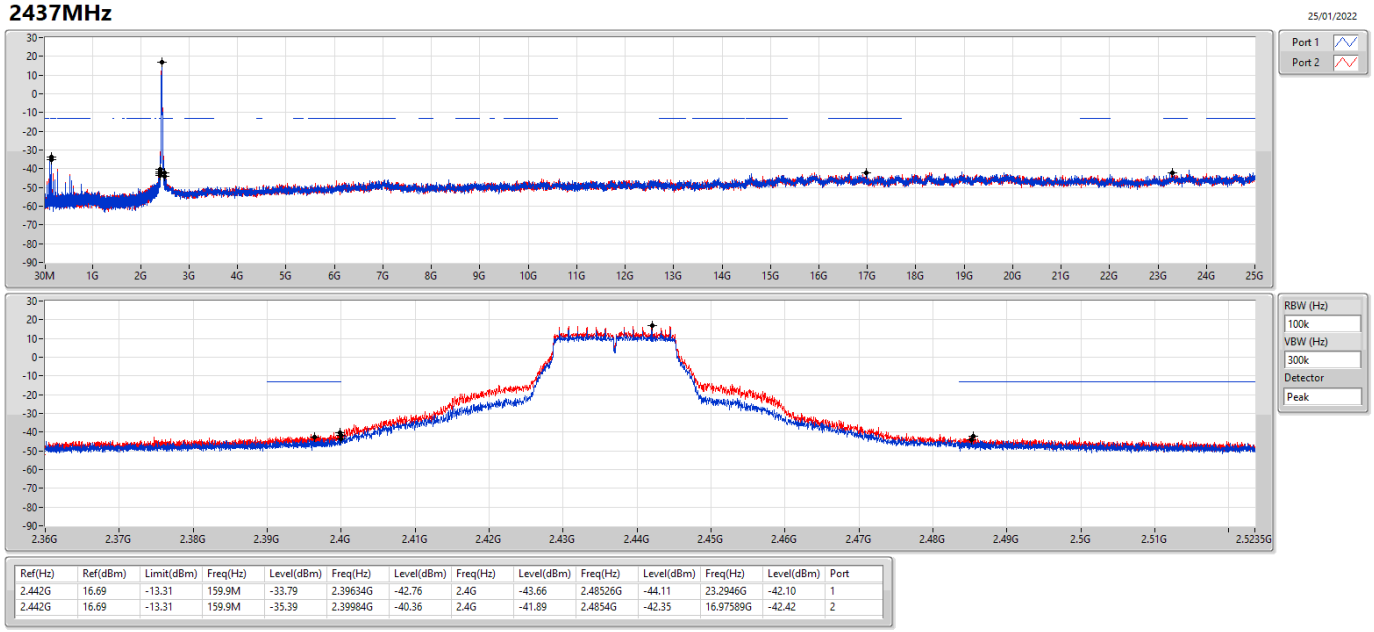
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	16.69	-13.31	159.9M	-34.68	2.39996G	-34.89	2.4G	-34.67	2.51158G	-48.01	23.36483G	-42.96	1
2.442G	16.69	-13.31	159.9M	-33.79	2.39986G	-31.51	2.4G	-32.82	2.50556G	-47.06	23.59241G	-42.11	2

802.11g_Nss1,(6Mbps)_2TX **CSENdB**

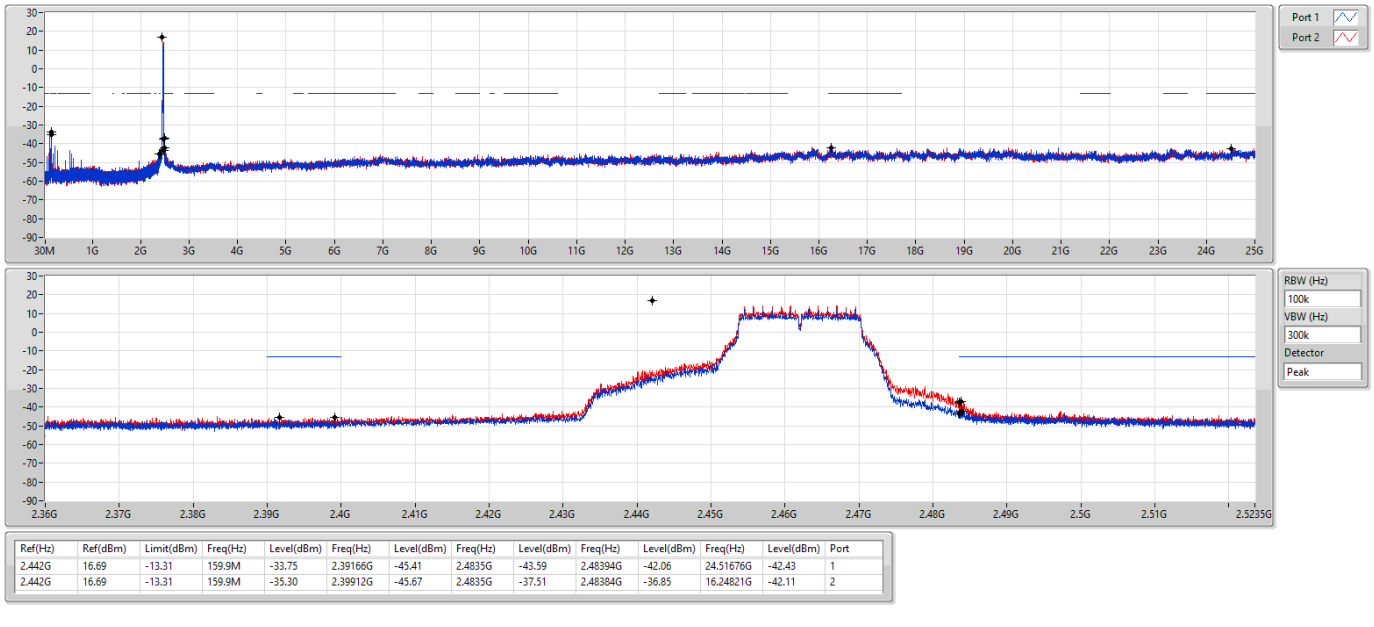
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	16.69	-13.31	159.9M	-33.79	2.39634G	-42.76	2.4G	-43.66	2.48526G	-44.11	23.2946G	-42.10	1
2.442G	16.69	-13.31	159.9M	-35.39	2.39984G	-40.36	2.4G	-41.89	2.4854G	-42.35	16.97589G	-42.42	2

802.11g_Nss1,(6Mbps)_2TX **CSENdB**

2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	16.69	-13.31	159.9M	-33.75	2.39166G	-45.41	2.4835G	-43.59	2.48394G	-42.06	24.51676G	-42.43	1
2.442G	16.69	-13.31	159.9M	-35.30	2.39912G	-45.67	2.4835G	-37.51	2.48384G	-36.85	16.24821G	-42.11	2

Test Mode: non-beamforming 2T2S mode:
Summary

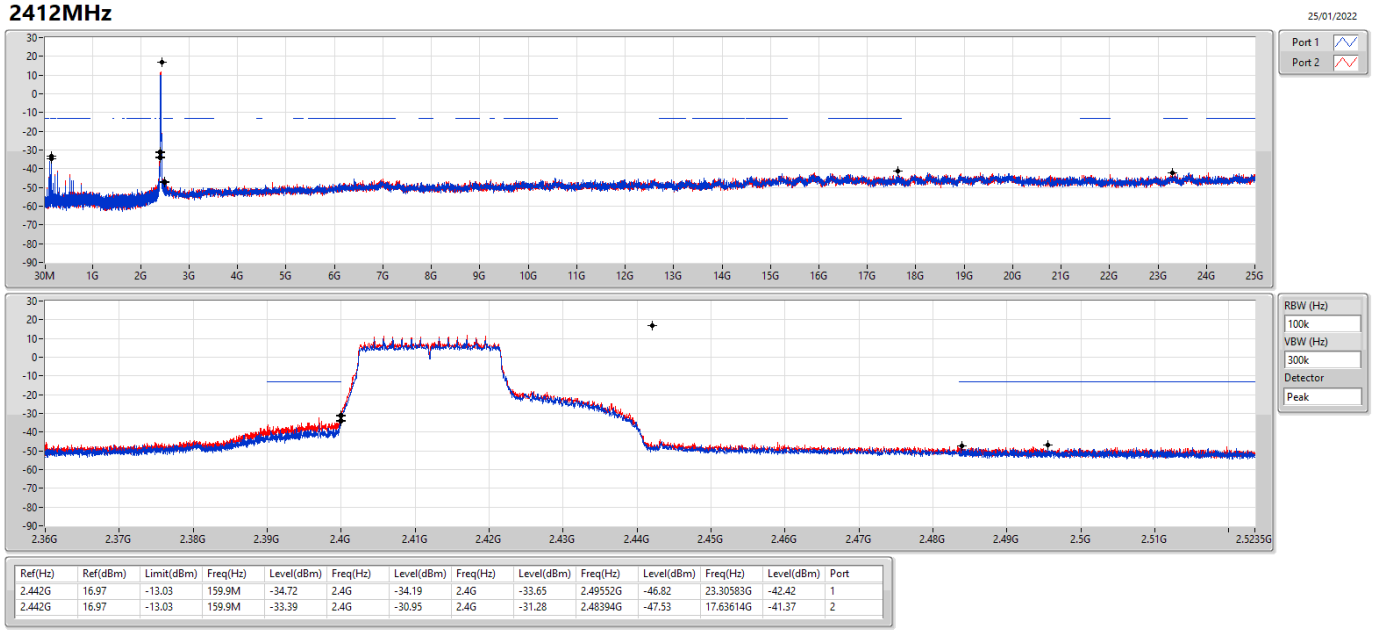
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	Pass	2.442G	16.97	-13.03	159.9M	-33.39	2.4G	-30.95	2.4G	-31.28	2.48394G	-47.53	17.63614G	-41.37	2
802.11ax HEW40_Nss2,(MCS0)_2TX	Pass	2.43198G	9.05	-20.95	159.96M	-35.03	2.4G	-26.89	2.4G	-27.14	2.53034G	-47.26	17.64644G	-42.21	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
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	16.97	-13.03	159.9M	-34.72	2.4G	-34.19	2.4G	-33.65	2.49552G	-46.82	23.30583G	-42.42	1
2412MHz	Pass	2.442G	16.97	-13.03	159.9M	-33.39	2.4G	-30.95	2.4G	-31.28	2.48394G	-47.53	17.63614G	-41.37	2
2437MHz	Pass	2.442G	16.97	-13.03	159.9M	-35.23	2.39826G	-38.49	2.4G	-40.76	2.48398G	-43.77	24.6488G	-42.28	1
2437MHz	Pass	2.442G	16.97	-13.03	159.9M	-33.78	2.39986G	-34.35	2.4G	-39.32	2.48466G	-39.85	15.21148G	-42.60	2
2462MHz	Pass	2.442G	16.97	-13.03	159.9M	-34.56	2.3999G	-47.44	2.4835G	-46.22	2.48588G	-43.24	17.65861G	-42.59	1
2462MHz	Pass	2.442G	16.97	-13.03	159.9M	-34.78	2.39212G	-46.36	2.4835G	-41.97	2.48358G	-40.38	24.98314G	-41.90	2
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	9.05	-20.95	159.96M	-35.03	2.4G	-26.89	2.4G	-27.14	2.53034G	-47.26	17.64644G	-42.21	1
2422MHz	Pass	2.43198G	9.05	-20.95	159.96M	-35.28	2.39972G	-30.03	2.4G	-29.08	2.48666G	-46.66	16.21611G	-42.56	2
2437MHz	Pass	2.43198G	9.05	-20.95	159.96M	-35.62	2.39952G	-37.01	2.4G	-40.13	2.48478G	-42.00	17.57071G	-42.31	1
2437MHz	Pass	2.43198G	9.05	-20.95	159.96M	-34.46	2.3998G	-32.52	2.4G	-35.62	2.48478G	-37.03	24.58773G	-41.10	2
2452MHz	Pass	2.43198G	9.05	-20.95	159.96M	-34.98	2.39948G	-33.31	2.4G	-36.13	2.48818G	-42.08	23.31446G	-42.22	1
2452MHz	Pass	2.43198G	9.05	-20.95	159.96M	-35.37	2.39956G	-30.39	2.4G	-35.43	2.4895G	-38.86	23.23313G	-42.78	2

802.11ax HEW20_Nss2,(MCS0)_2TX **CSENdB**

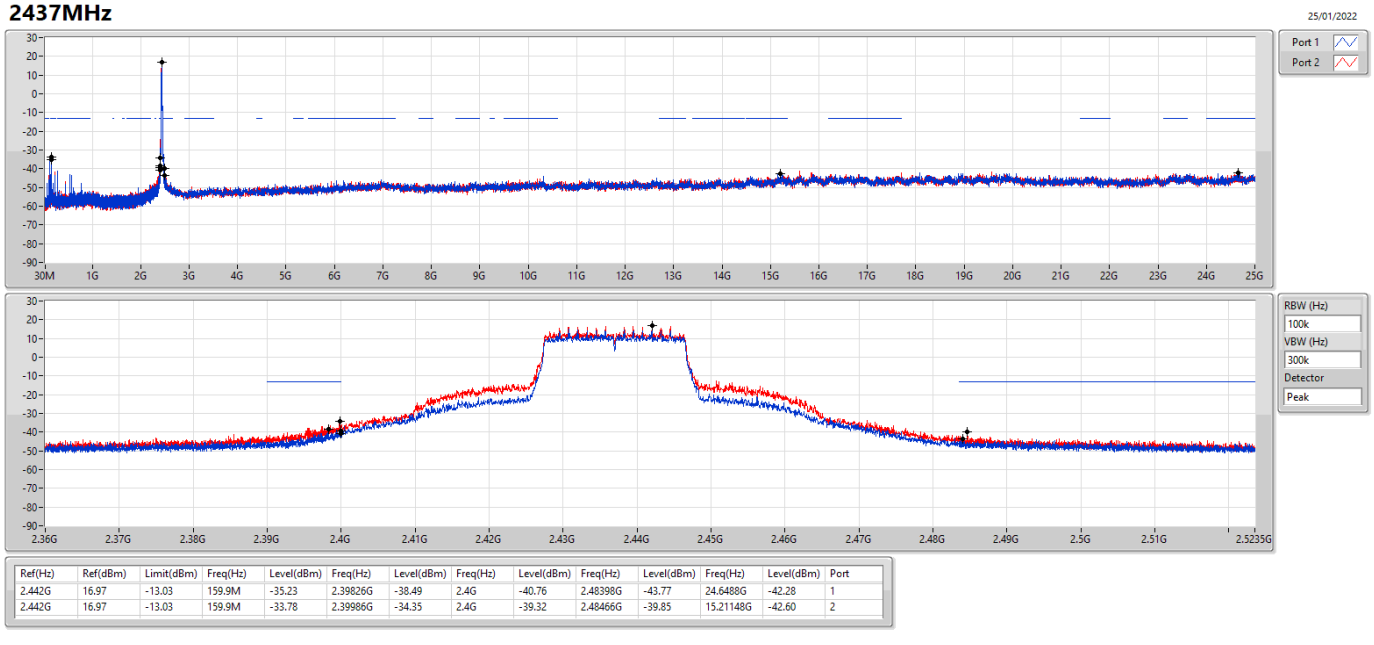
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	16.97	-13.03	159.9M	-34.72	2.4G	-34.19	2.4G	-33.65	2.49552G	-46.82	23.30583G	-42.42	1
2.442G	16.97	-13.03	159.9M	-33.39	2.4G	-30.95	2.4G	-31.28	2.48394G	-47.53	17.63614G	-41.37	2

802.11ax HEW20_Nss2,(MCS0)_2TX **CSENdB**

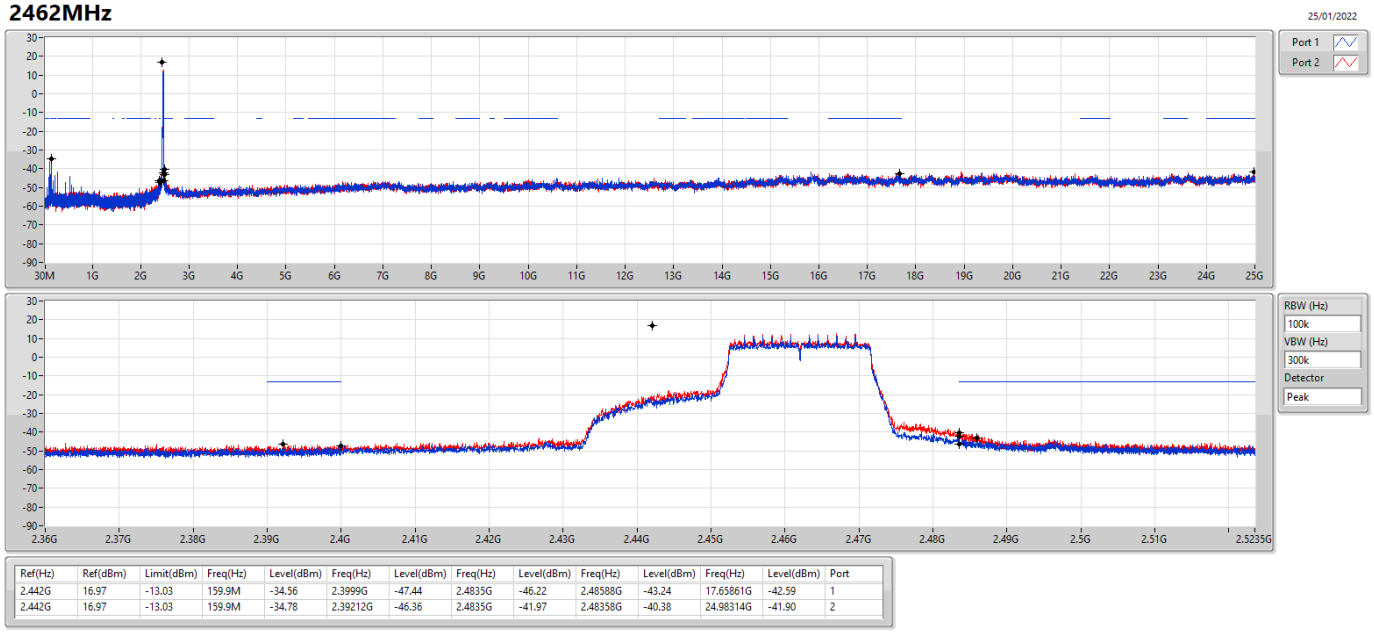
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	16.97	-13.03	159.9M	-35.23	2.39826G	-38.49	2.4G	-40.76	2.48398G	-43.77	24.6488G	-42.28	1
2.442G	16.97	-13.03	159.9M	-33.78	2.39986G	-34.35	2.4G	-39.32	2.48466G	-39.85	15.21148G	-42.60	2

802.11ax HEW20_Nss2,(MCS0)_2TX **CSENdB**

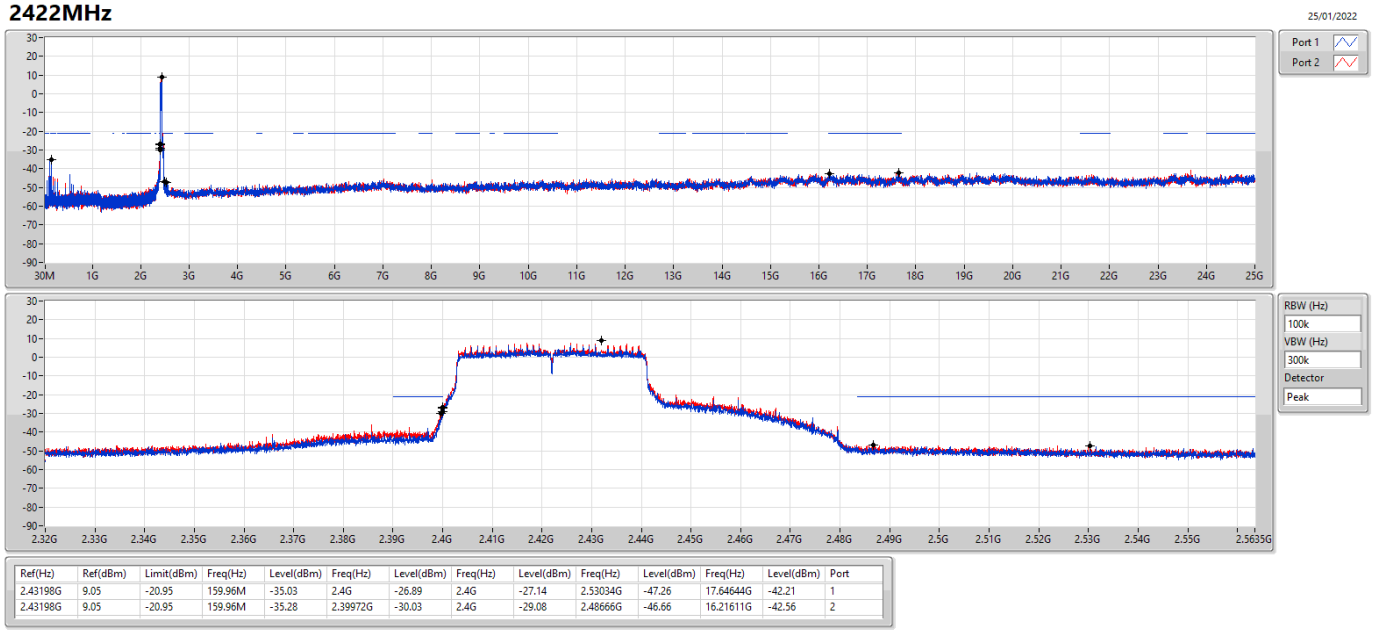
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	16.97	-13.03	159.9M	-34.56	2.3999G	-47.44	2.4835G	-46.22	2.48588G	-43.24	17.65861G	-42.59	1
2.442G	16.97	-13.03	159.9M	-34.78	2.39212G	-46.36	2.4835G	-41.97	2.48358G	-40.38	24.98314G	-41.90	2

802.11ax HEW40_Nss2,(MCS0)_2TX **CSENdB**

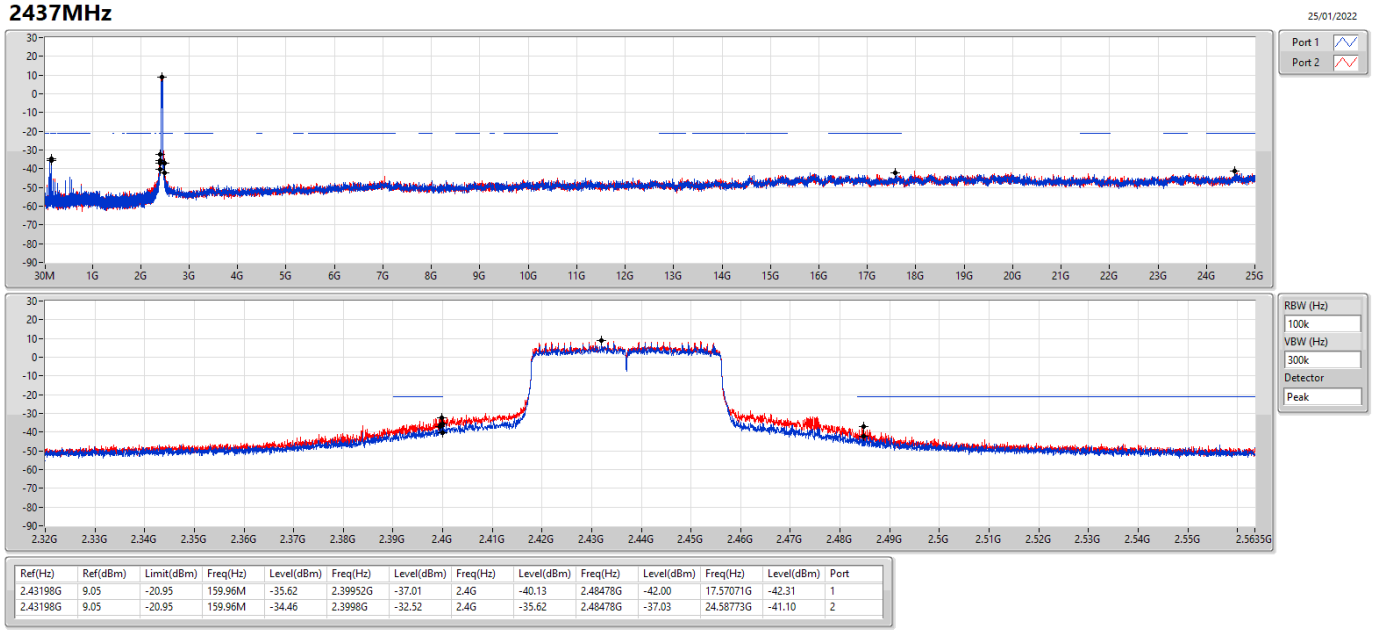
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	9.05	-20.95	159.96M	-35.03	2.4G	-26.89	2.4G	-27.14	2.53034G	-47.26	17.64644G	-42.21	1
2.43198G	9.05	-20.95	159.96M	-35.28	2.39972G	-30.03	2.4G	-29.08	2.48666G	-46.66	16.21611G	-42.56	2

802.11ax HEW40_Nss2,(MCS0)_2TX **CSENdB**

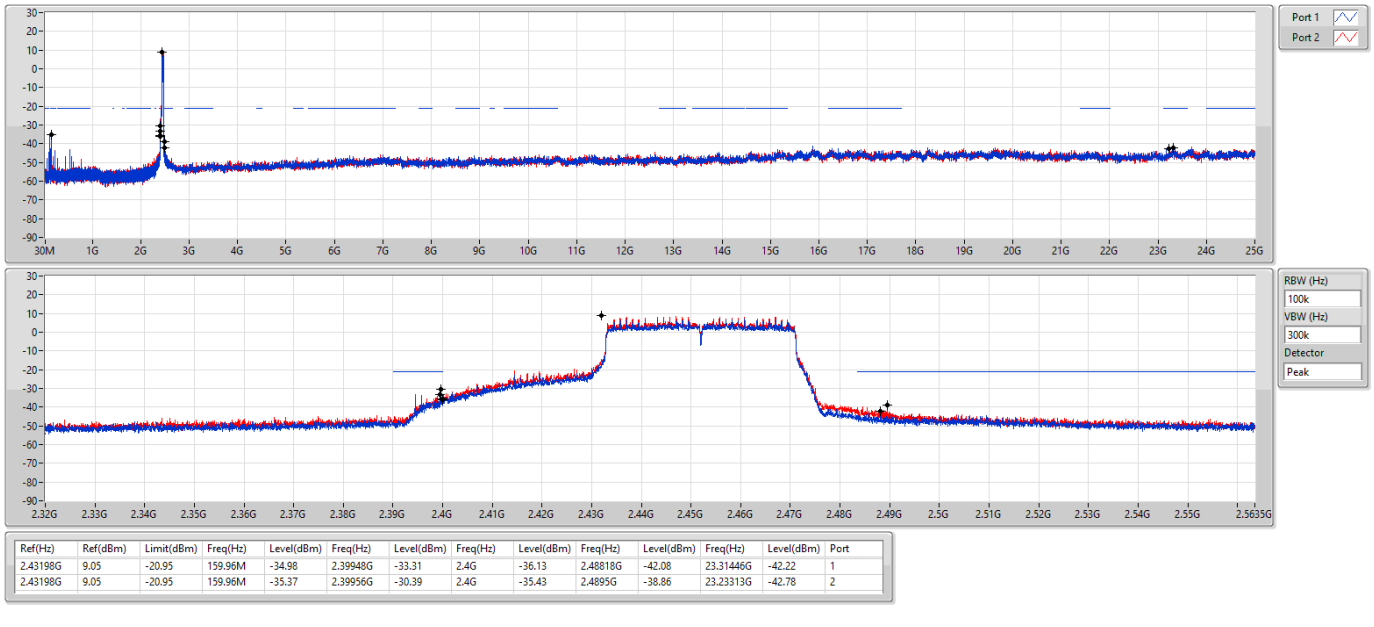
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	9.05	-20.95	159.96M	-35.62	2.39952G	-37.01	2.4G	-40.13	2.48478G	-42.00	17.57071G	-42.31	1
2.43198G	9.05	-20.95	159.96M	-34.46	2.3998G	-32.52	2.4G	-35.62	2.48478G	-37.03	24.58773G	-41.10	2

802.11ax HEW40_Nss2,(MCS0)_2TX **CSENdB**

2452MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	9.05	-20.95	159.96M	-34.98	2.39948G	-33.31	2.4G	-36.13	2.48818G	-42.08	23.31446G	-42.22	1
2.43198G	9.05	-20.95	159.96M	-35.37	2.39956G	-30.39	2.4G	-35.43	2.4895G	-38.86	23.23313G	-42.78	2

Test Mode: beamforming 2T1S mode:
Summary

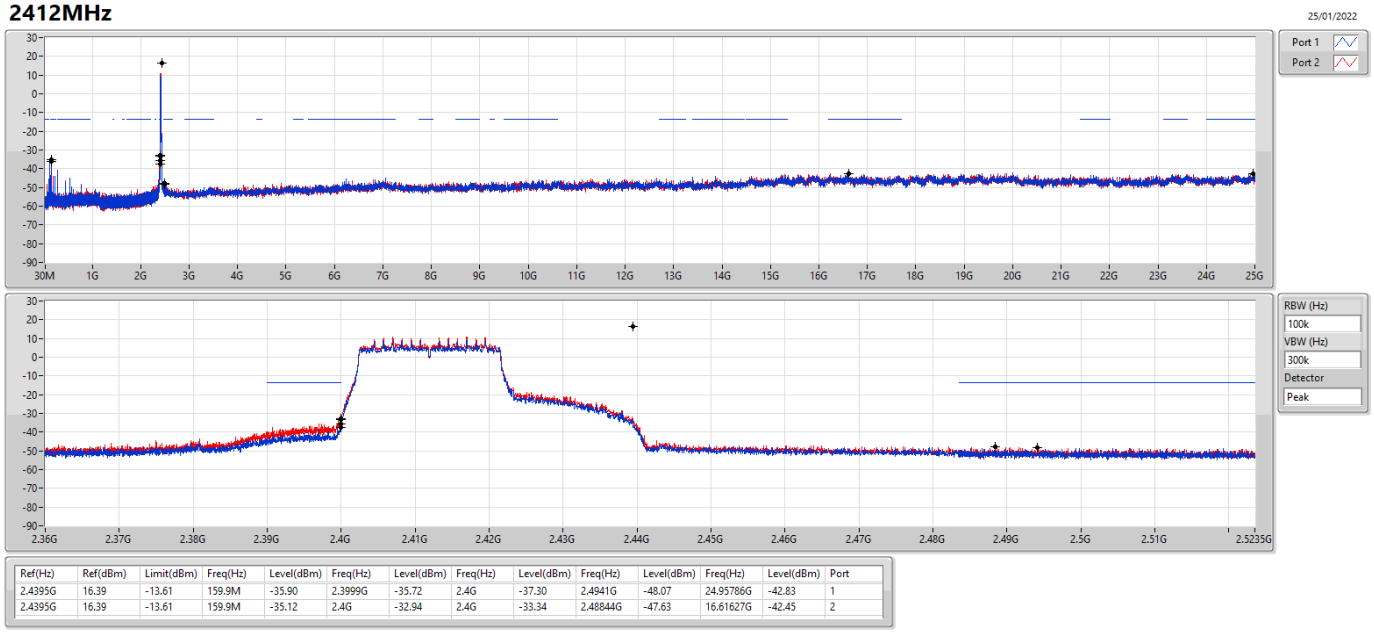
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.4395G	16.39	-13.61	159.9M	-35.12	2.4G	-32.94	2.4G	-33.34	2.48844G	-47.63	16.61627G	-42.45	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.43198G	8.03	-21.97	159.96M	-35.13	2.39952G	-29.10	2.4G	-29.11	2.48426G	-47.54	23.22191G	-42.51	2

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4395G	16.39	-13.61	159.9M	-35.90	2.3999G	-35.72	2.4G	-37.30	2.4941G	-48.07	24.95786G	-42.83	1
2412MHz	Pass	2.4395G	16.39	-13.61	159.9M	-35.12	2.4G	-32.94	2.4G	-33.34	2.48844G	-47.63	16.61627G	-42.45	2
2437MHz	Pass	2.4395G	16.39	-13.61	159.9M	-34.69	2.39992G	-39.16	2.4G	-41.56	2.49612G	-43.99	16.62469G	-41.90	1
2437MHz	Pass	2.4395G	16.39	-13.61	159.9M	-34.61	2.4G	-35.51	2.4G	-37.70	2.48404G	-42.07	16.59379G	-42.22	2
2462MHz	Pass	2.4395G	16.39	-13.61	159.9M	-35.91	2.39312G	-47.64	2.4835G	-44.28	2.48352G	-42.67	23.55588G	-42.79	1
2462MHz	Pass	2.4395G	16.39	-13.61	159.9M	-34.52	2.39394G	-46.85	2.4835G	-41.42	2.48372G	-38.25	24.96629G	-42.77	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	8.03	-21.97	159.96M	-33.39	2.39952G	-31.22	2.4G	-30.56	2.5291G	-48.22	24.59895G	-42.10	1
2422MHz	Pass	2.43198G	8.03	-21.97	159.96M	-35.13	2.39952G	-29.10	2.4G	-29.11	2.48426G	-47.54	23.22191G	-42.51	2
2437MHz	Pass	2.43198G	8.03	-21.97	159.96M	-34.28	2.39956G	-36.65	2.4G	-41.97	2.48474G	-43.14	23.33409G	-41.32	1
2437MHz	Pass	2.43198G	8.03	-21.97	159.96M	-34.53	2.39952G	-32.13	2.4G	-37.87	2.48482G	-40.69	23.28922G	-42.08	2
2452MHz	Pass	2.43198G	8.03	-21.97	159.96M	-32.61	2.39948G	-35.75	2.4G	-36.82	2.48818G	-42.38	16.80787G	-42.73	1
2452MHz	Pass	2.43198G	8.03	-21.97	159.96M	-33.43	2.39952G	-31.52	2.4G	-37.18	2.48446G	-40.51	24.11095G	-42.58	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **CSENdB**

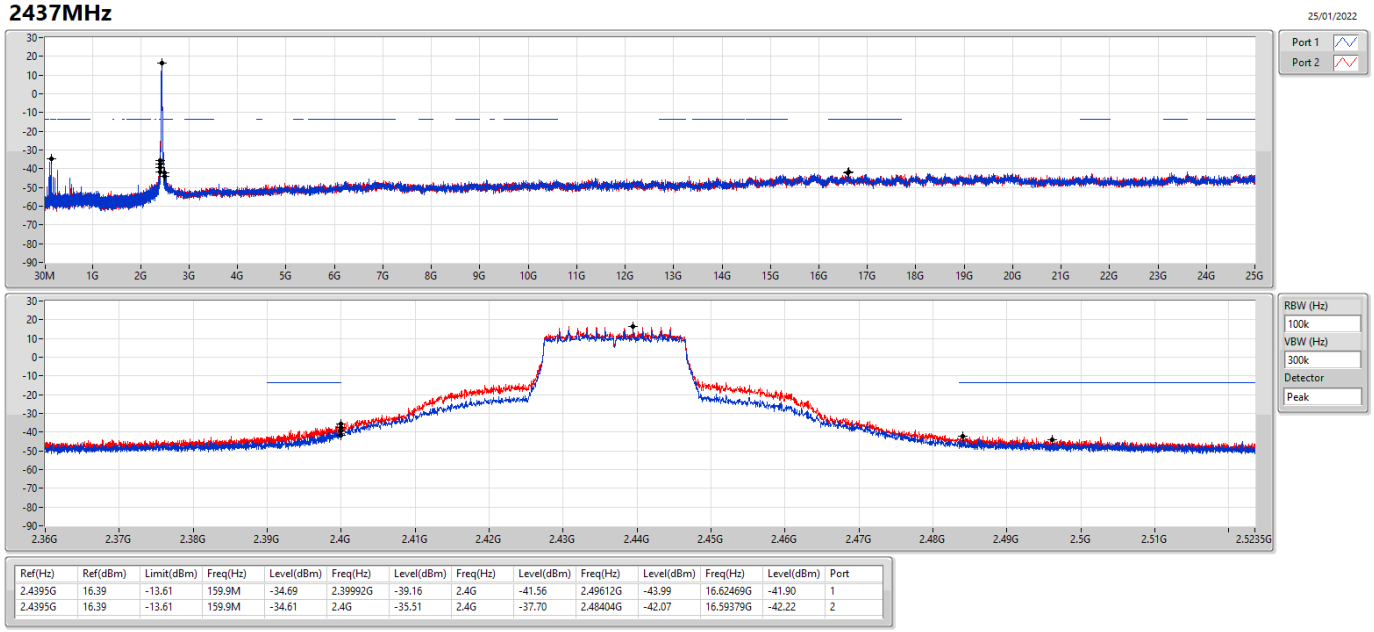
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4395G	16.39	-13.61	159.9M	-35.90	2.3999G	-35.72	2.4G	-37.30	2.4941G	-48.07	24.95786G	-42.83	1
2.4395G	16.39	-13.61	159.9M	-35.12	2.4G	-32.94	2.4G	-33.34	2.48844G	-47.63	16.61627G	-42.45	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **CSENdB**

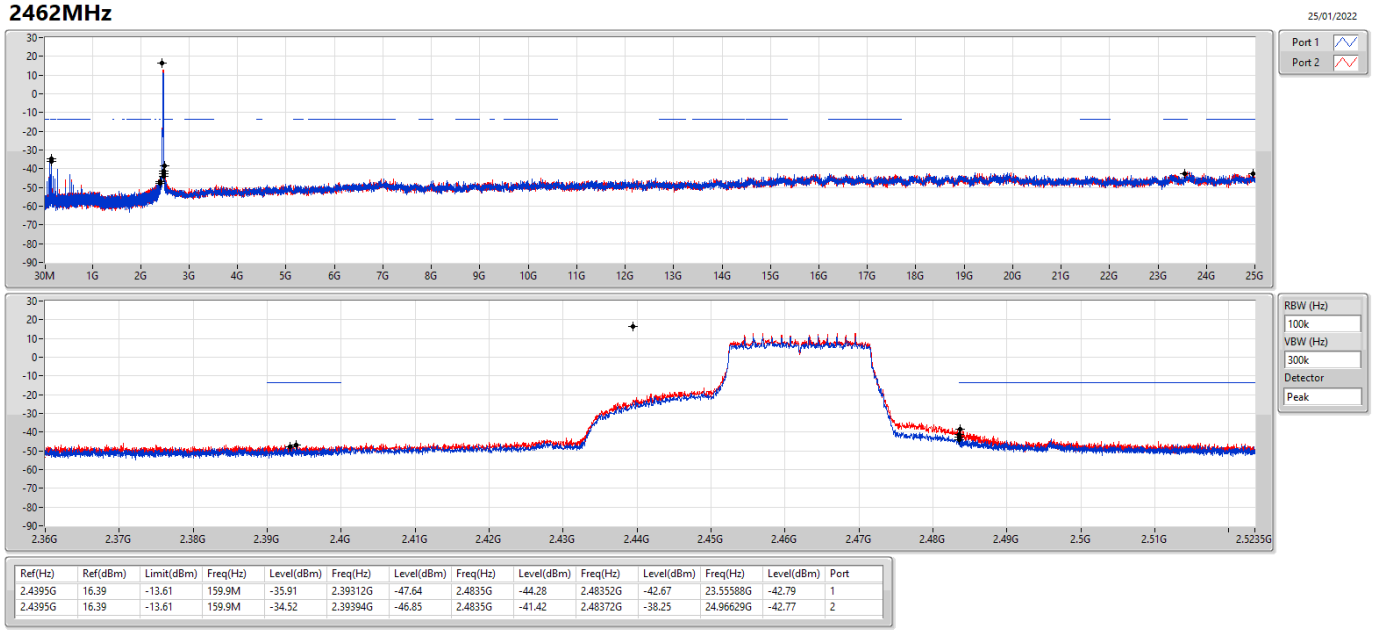
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4395G	16.39	-13.61	159.9M	-34.69	2.39992G	-39.16	2.4G	-41.56	2.49612G	-43.99	16.62469G	-41.90	1
2.4395G	16.39	-13.61	159.9M	-34.61	2.4G	-35.51	2.4G	-37.70	2.48404G	-42.07	16.59379G	-42.22	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **CSENdB**

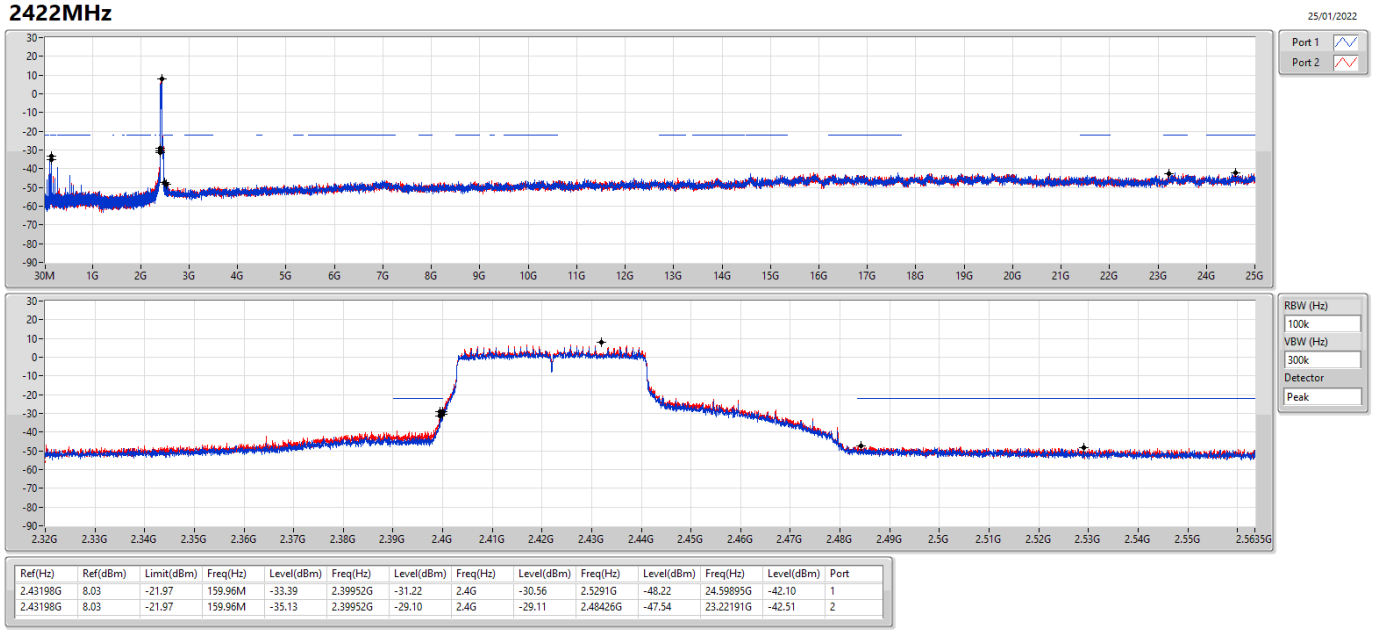
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4395G	16.39	-13.61	159.9M	-35.91	2.39312G	-47.64	2.4835G	-44.28	2.48352G	-42.67	23.55588G	-42.79	1
2.4395G	16.39	-13.61	159.9M	-34.52	2.39394G	-46.85	2.4835G	-41.42	2.48372G	-38.25	24.96629G	-42.77	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **CSENdB**

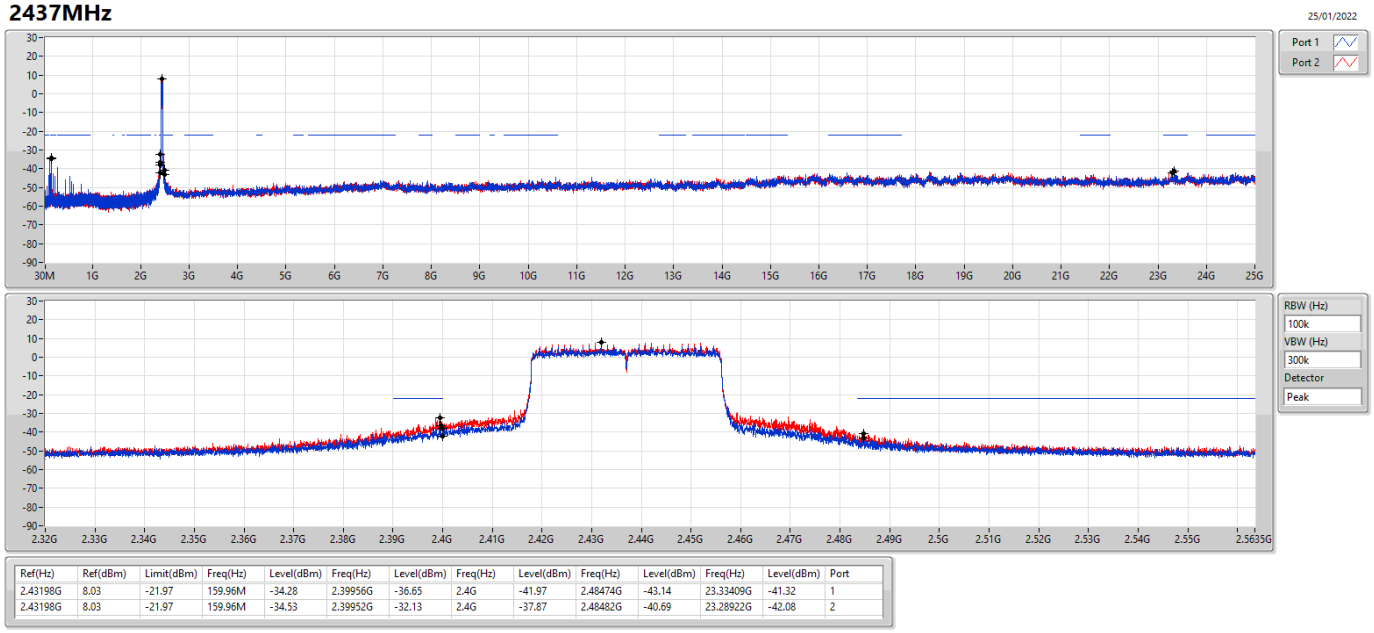
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	8.03	-21.97	159.96M	-33.39	2.39952G	-31.22	2.4G	-30.56	2.5291G	-48.22	24.59895G	-42.10	1
2.43198G	8.03	-21.97	159.96M	-35.13	2.39952G	-29.10	2.4G	-29.11	2.48426G	-47.54	23.22191G	-42.51	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **CSENdB**

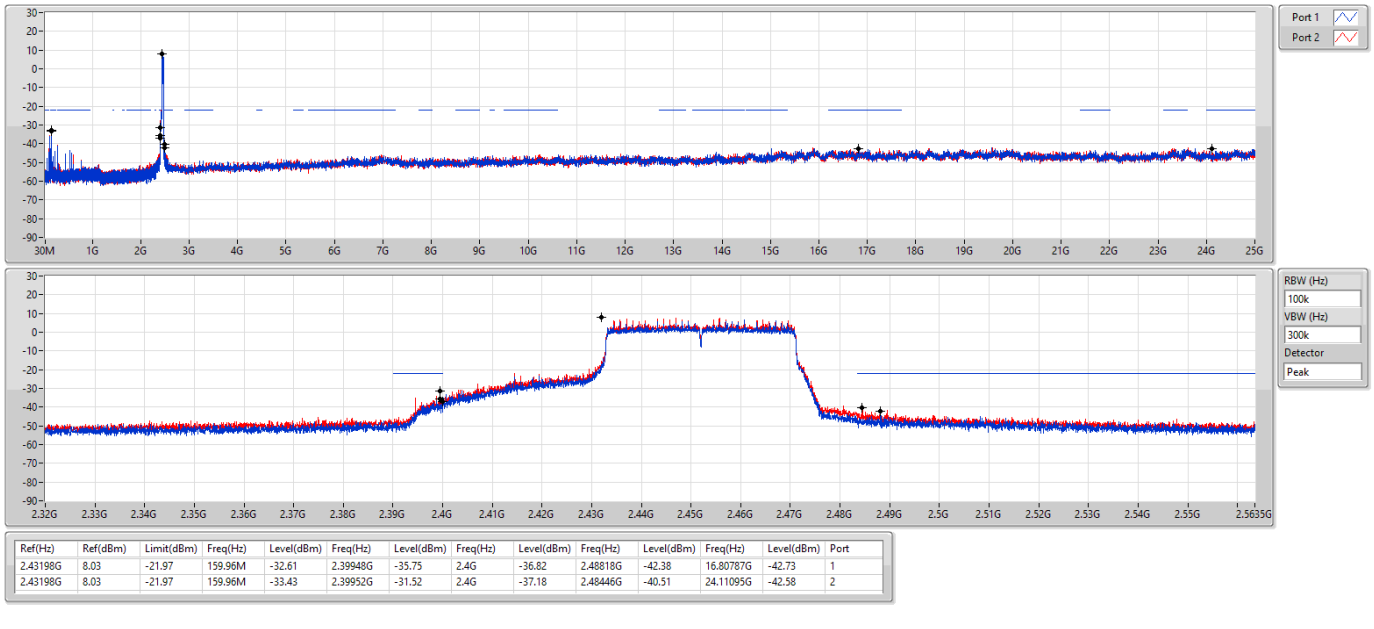
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	8.03	-21.97	159.96M	-34.28	2.39956G	-36.65	2.4G	-41.97	2.48474G	-43.14	23.33409G	-41.32	1
2.43198G	8.03	-21.97	159.96M	-34.53	2.39952G	-32.13	2.4G	-37.87	2.48482G	-40.69	23.28922G	-42.08	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **CSENdB**

2452MHz

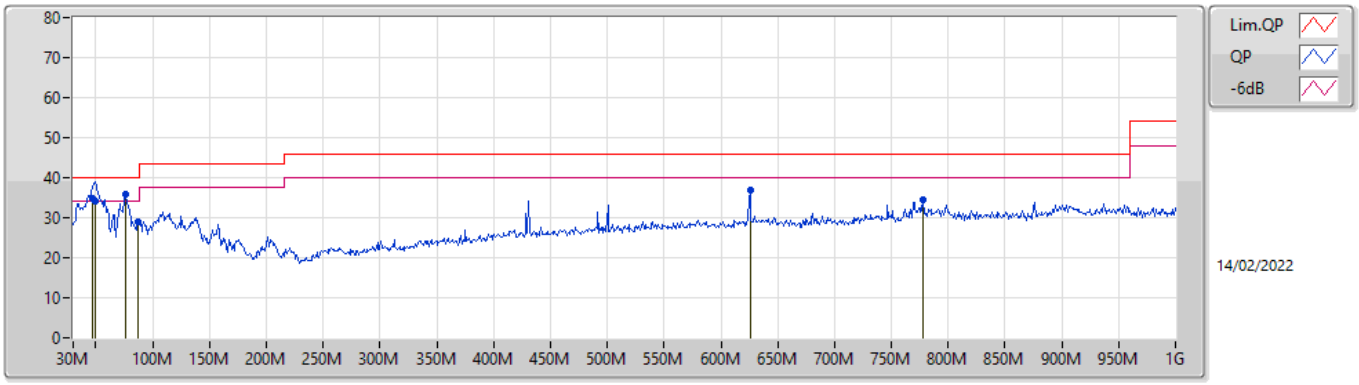


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	8.03	-21.97	159.96M	-32.61	2.39948G	-35.75	2.4G	-36.82	2.48818G	-42.38	16.80787G	-42.73	1
2.43198G	8.03	-21.97	159.96M	-33.43	2.39952G	-31.52	2.4G	-37.18	2.48446G	-40.51	24.11095G	-42.58	2

Summary

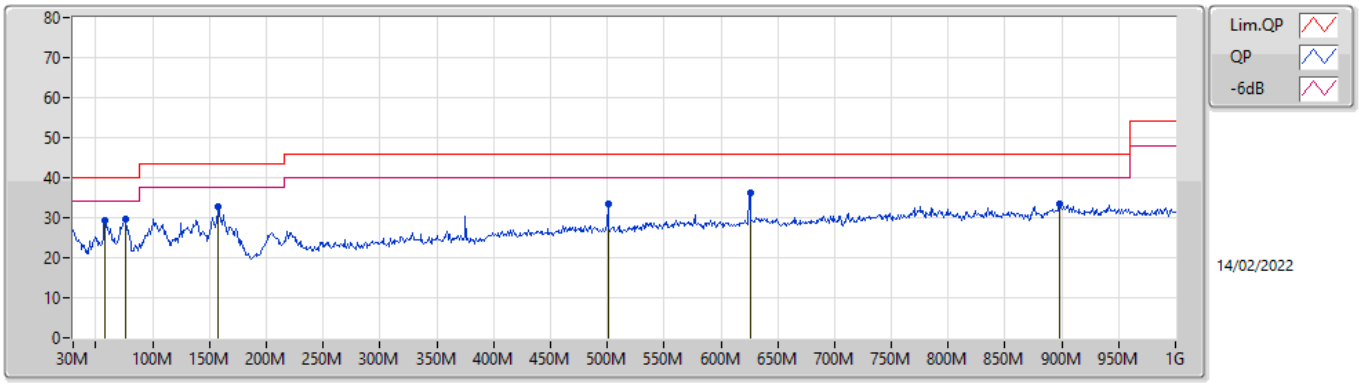
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	PK	75.59M	35.88	40.00	-4.12	Vertical

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	46.49M	34.85	40.00	-5.15	-15.65	3	Vertical	15	2.00	-	50.50	14.95	1.60	32.20
QP	49.4M	34.12	40.00	-5.88	-16.68	3	Vertical	0	1.00	-	50.80	13.93	1.60	32.21
PK	75.59M	35.88	40.00	-4.12	-18.02	3	Vertical	199	1.50	"Worst"	53.90	12.31	1.80	32.13
PK	87.23M	29.07	40.00	-10.93	-16.23	3	Vertical	360	1.50	-	45.30	14.05	1.80	32.08
PK	625.58M	36.86	46.00	-9.14	-4.58	3	Vertical	176	1.50	-	41.44	25.36	3.20	33.14
PK	777.87M	34.46	46.00	-11.54	-4.16	3	Vertical	169	1.00	-	38.62	25.77	3.56	33.49

Mode 3



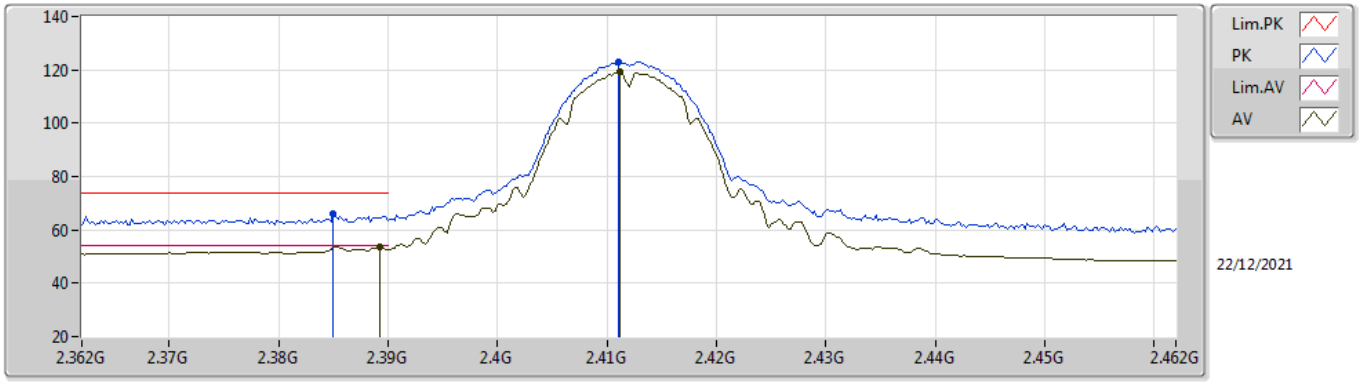
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	58.13M	29.48	40.00	-10.52	-17.95	3	Horizontal	286	2.00	-	47.43	12.57	1.66	32.18
PK	75.59M	29.62	40.00	-10.38	-18.02	3	Horizontal	89	2.00	-	47.64	12.31	1.80	32.13
PK	158.04M	32.64	43.50	-10.86	-14.01	3	Horizontal	221	2.00	-	46.65	16.11	2.00	32.12
PK	500.45M	33.54	46.00	-12.46	-6.13	3	Horizontal	223	2.00	-	39.67	23.55	3.00	32.68
PK	625.58M	36.13	46.00	-9.87	-4.58	3	Horizontal	209	1.50	"Worst"	40.71	25.36	3.20	33.14
PK	898.15M	33.43	46.00	-12.57	-2.00	3	Horizontal	268	1.25	-	35.43	27.21	3.89	33.10

Test Mode: non-beamforming 2T1S mode:
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.4835G	53.96	54.00	-0.04	3	Vertical	89	1.91	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

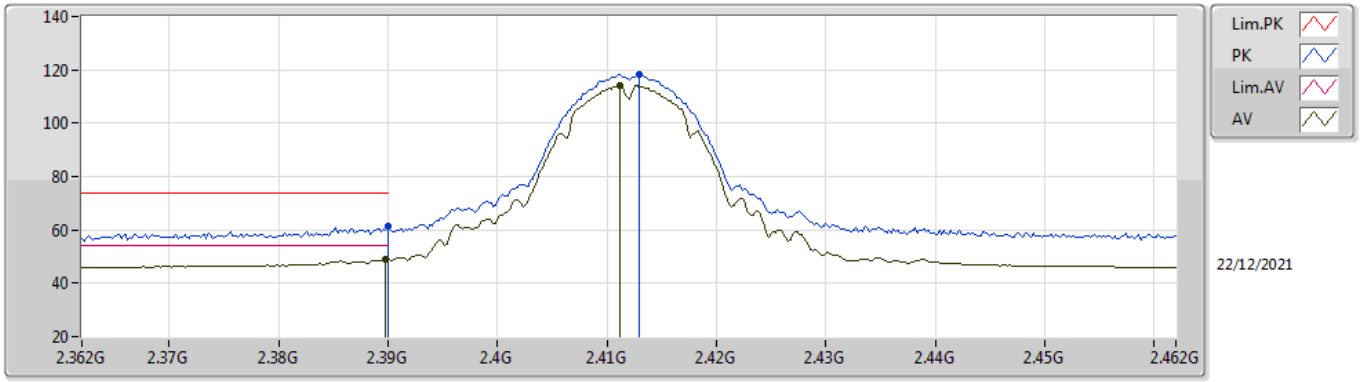


EUT Y_2TX
Setting 106
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.385G	65.85	74.00	-8.15	34.54	3	Vertical	187	1.88	-	27.52	3.79	-
AV	2.3892G	53.64	54.00	-0.36	22.36	3	Vertical	187	1.88	-	27.49	3.79	-
PK	2.411G	123.10	Inf	-Inf	91.93	3	Vertical	187	1.88	-	27.36	3.81	-
AV	2.4112G	119.17	Inf	-Inf	88.00	3	Vertical	187	1.88	-	27.36	3.81	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

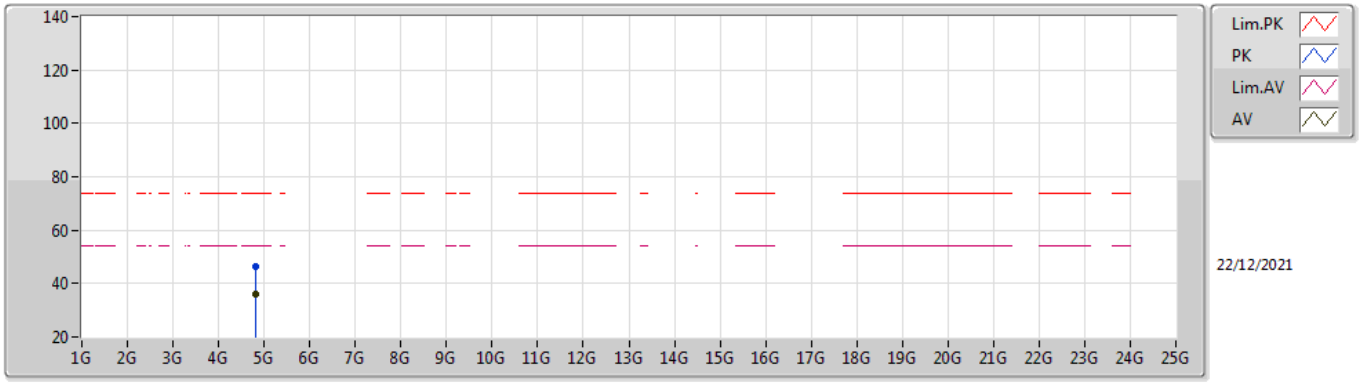


EUT Y_2TX
Setting 106
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	61.46	74.00	-12.54	30.19	3	Horizontal	203	2.52	-	27.48	3.79	-
AV	2.3898G	48.75	54.00	-5.25	17.48	3	Horizontal	203	2.52	-	27.48	3.79	-
PK	2.413G	118.23	Inf	-Inf	87.07	3	Horizontal	203	2.52	-	27.35	3.81	-
AV	2.4112G	114.14	Inf	-Inf	82.97	3	Horizontal	203	2.52	-	27.36	3.81	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

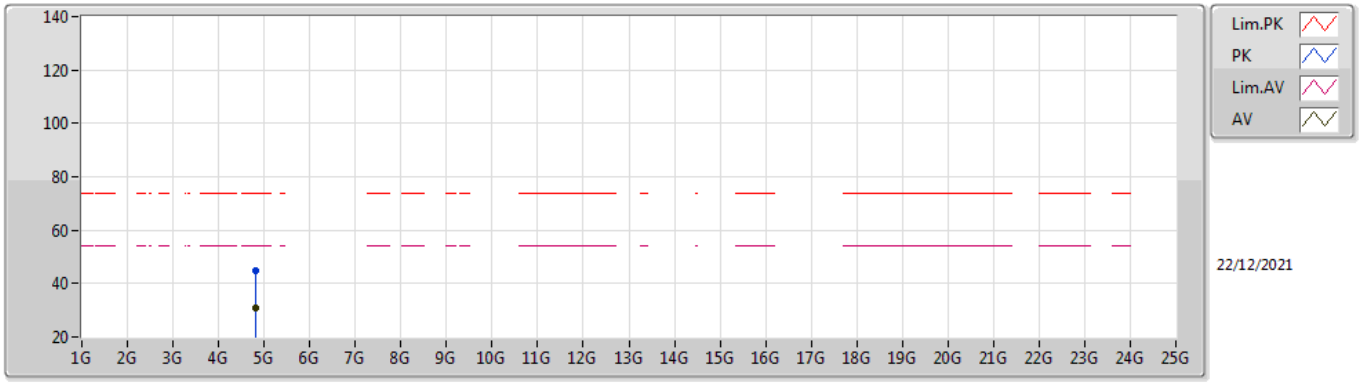


EUT Y_2TX
Setting 106
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82404G	46.30	74.00	-27.70	41.71	3	Vertical	260	1.99	-	31.05	5.60	32.06
AV	4.82392G	35.92	54.00	-18.08	31.33	3	Vertical	260	1.99	-	31.05	5.60	32.06

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

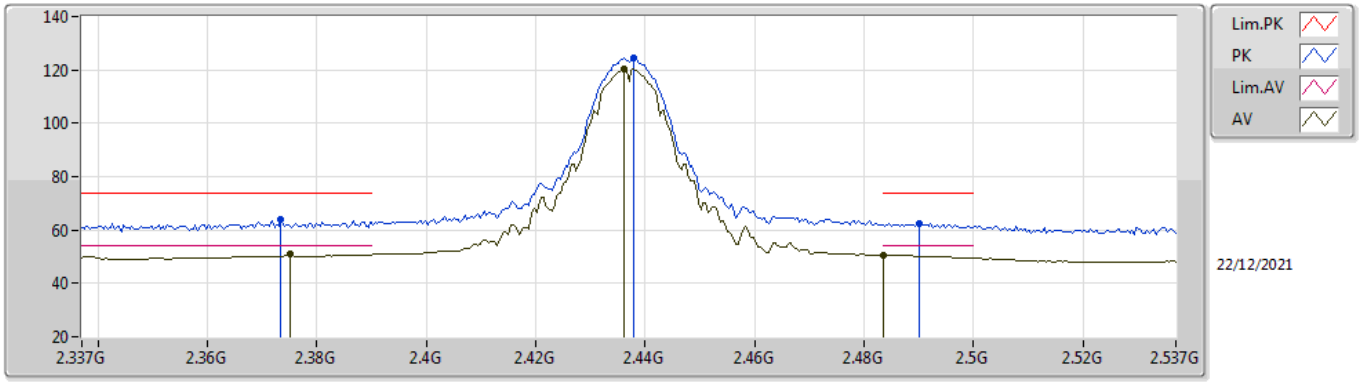


EUT Y_2TX
Setting 106
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82756G	44.68	74.00	-29.32	40.09	3	Horizontal	185	1.80	-	31.04	5.60	32.05
AV	4.8188G	30.92	54.00	-23.08	26.32	3	Horizontal	185	1.80	-	31.06	5.60	32.06

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

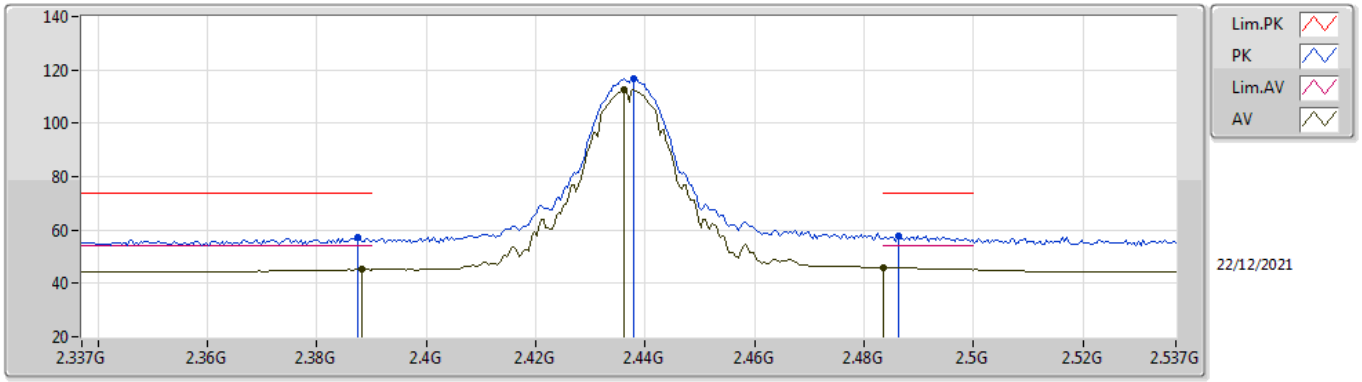


EUT Y_2TX
Setting 110
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3734G	64.01	74.00	-9.99	32.61	3	Vertical	98	2.18	-	27.61	3.79	-
AV	2.375G	50.78	54.00	-3.22	19.39	3	Vertical	98	2.18	-	27.60	3.79	-
PK	2.4378G	124.39	Inf	-Inf	93.30	3	Vertical	98	2.18	-	27.25	3.84	-
AV	2.4362G	120.30	Inf	-Inf	89.20	3	Vertical	98	2.18	-	27.26	3.84	-
PK	2.4902G	62.61	74.00	-11.39	31.44	3	Vertical	98	2.18	-	27.28	3.89	-
AV	2.4835G	50.74	54.00	-3.26	19.59	3	Vertical	98	2.18	-	27.27	3.88	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

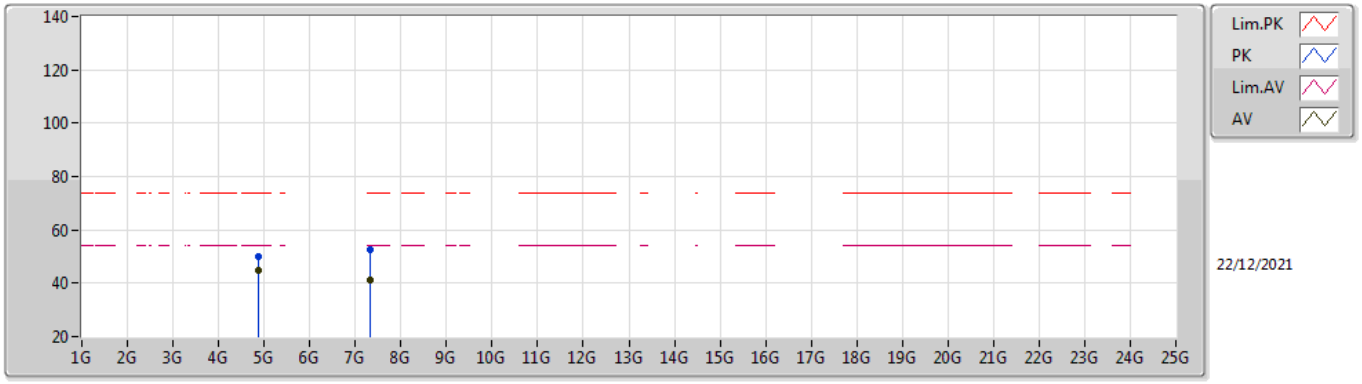


EUT Y_2TX
Setting 110
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3874G	57.30	74.00	-16.70	26.01	3	Horizontal	31	2.49	-	27.50	3.79	-
AV	2.3882G	45.18	54.00	-8.82	13.90	3	Horizontal	31	2.49	-	27.49	3.79	-
PK	2.4378G	116.80	Inf	-Inf	85.71	3	Horizontal	31	2.49	-	27.25	3.84	-
AV	2.4362G	112.77	Inf	-Inf	81.67	3	Horizontal	31	2.49	-	27.26	3.84	-
PK	2.4862G	57.97	74.00	-16.03	26.81	3	Horizontal	31	2.49	-	27.27	3.89	-
AV	2.4835G	45.99	54.00	-8.01	14.84	3	Horizontal	31	2.49	-	27.27	3.88	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

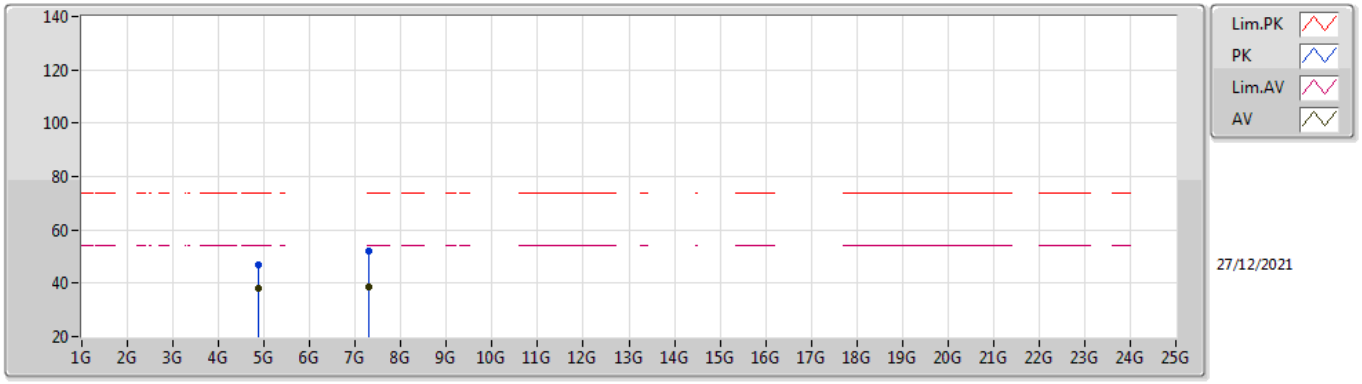


EUT Y_2TX
Setting 110
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.874G	49.89	74.00	-24.11	45.26	3	Vertical	161	2.63	-	31.05	5.60	32.02
AV	4.87396G	44.99	54.00	-9.01	40.36	3	Vertical	161	2.63	-	31.05	5.60	32.02
PK	7.3118G	52.80	74.00	-21.20	43.02	3	Vertical	265	1.79	-	36.35	6.90	33.47
AV	7.31164G	41.18	54.00	-12.82	31.40	3	Vertical	265	1.79	-	36.35	6.90	33.47

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

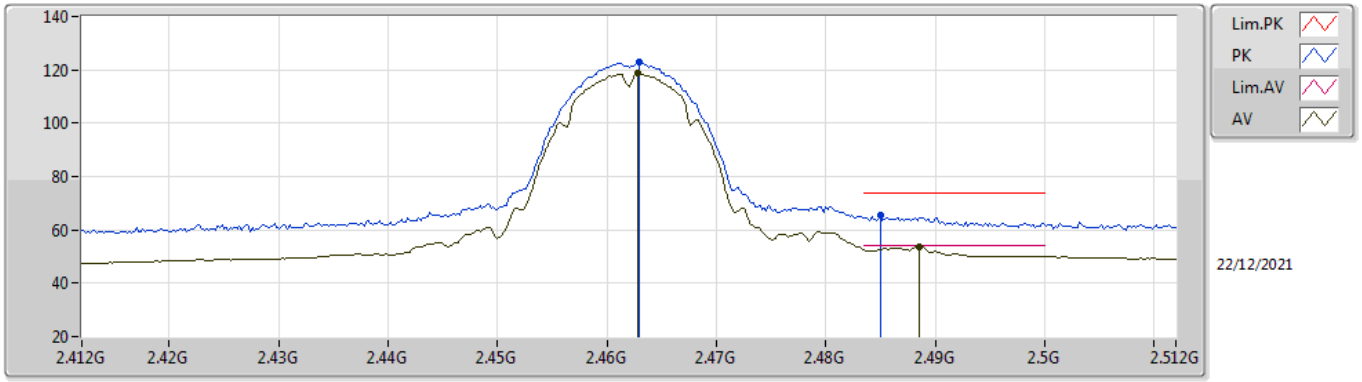


EUT Y_2TX
Setting 110
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87392G	46.68	74.00	-27.32	42.05	3	Horizontal	154	1.38	-	31.05	5.60	32.02
AV	4.87396G	37.98	54.00	-16.02	33.35	3	Horizontal	154	1.38	-	31.05	5.60	32.02
PK	7.30956G	52.03	74.00	-21.97	42.23	3	Horizontal	116	2.00	-	36.36	6.90	33.46
AV	7.3102G	38.67	54.00	-15.33	28.88	3	Horizontal	116	2.00	-	36.36	6.90	33.47

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

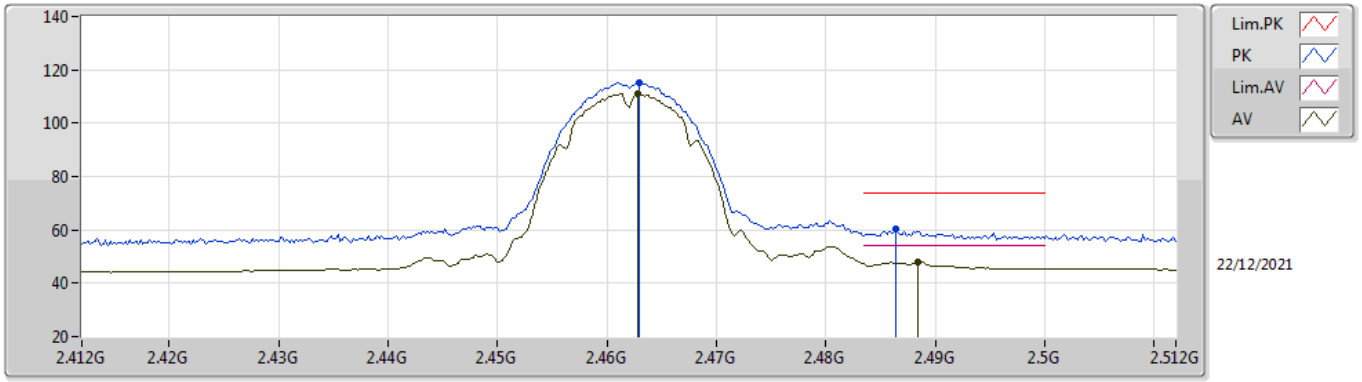


EUT Y_2TX
Setting 103
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.463G	122.75	Inf	-Inf	91.66	3	Vertical	308	2.24	-	27.23	3.86	-
AV	2.4628G	118.75	Inf	-Inf	87.66	3	Vertical	308	2.24	-	27.23	3.86	-
PK	2.485G	65.45	74.00	-8.55	34.29	3	Vertical	308	2.24	-	27.27	3.89	-
AV	2.4886G	53.65	54.00	-0.35	22.48	3	Vertical	308	2.24	-	27.28	3.89	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

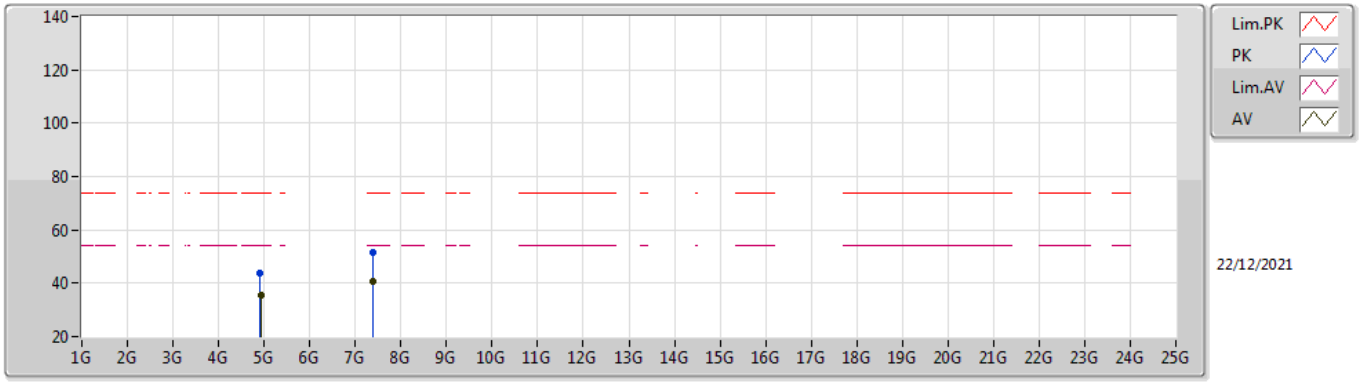


EUT Y_2TX
Setting 103
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.463G	115.35	Inf	-Inf	84.26	3	Horizontal	103	2.29	-	27.23	3.86	-
AV	2.4628G	111.10	Inf	-Inf	80.01	3	Horizontal	103	2.29	-	27.23	3.86	-
PK	2.4864G	60.37	74.00	-13.63	29.21	3	Horizontal	103	2.29	-	27.27	3.89	-
AV	2.4884G	47.89	54.00	-6.11	16.72	3	Horizontal	103	2.29	-	27.28	3.89	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

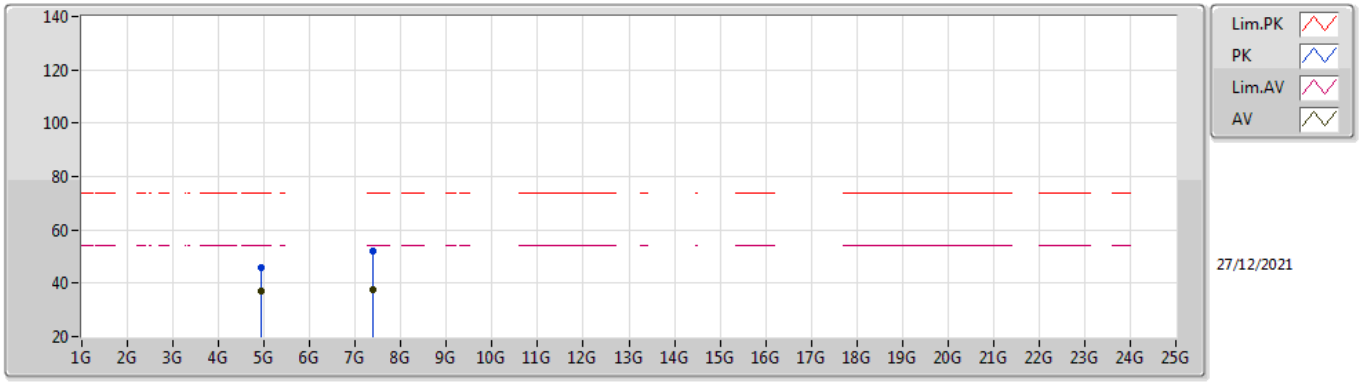


EUT Y_2TX
Setting 103
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.91716G	43.80	74.00	-30.20	39.01	3	Vertical	175	2.36	-	31.17	5.60	31.98
AV	4.92392G	35.52	54.00	-18.48	30.69	3	Vertical	175	2.36	-	31.20	5.60	31.97
PK	7.39584G	51.40	74.00	-22.60	41.99	3	Vertical	239	1.66	-	36.02	6.90	33.51
AV	7.39032G	40.61	54.00	-13.39	31.18	3	Vertical	239	1.66	-	36.04	6.90	33.51

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

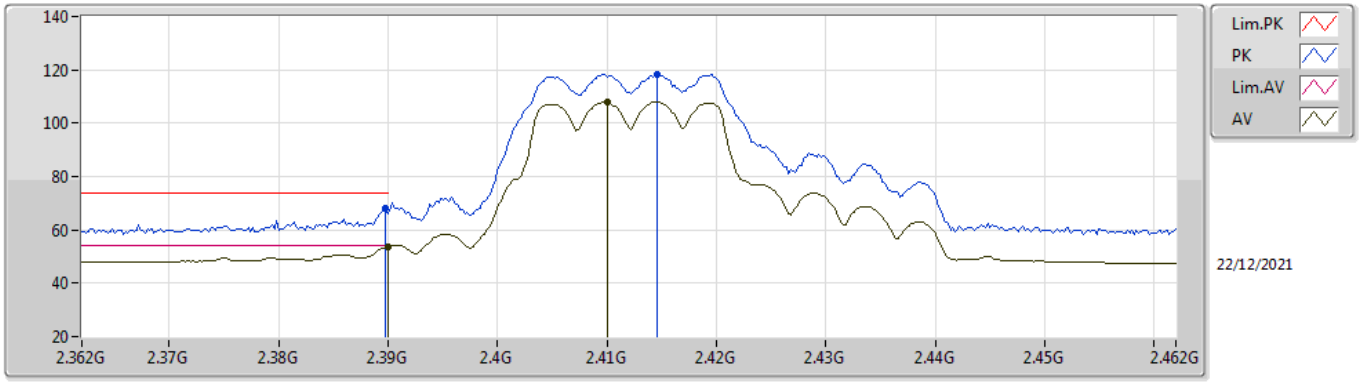


EUT Y_2TX
Setting 103
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92396G	45.83	74.00	-28.17	41.00	3	Horizontal	184	1.00	-	31.20	5.60	31.97
AV	4.92396G	36.90	54.00	-17.10	32.07	3	Horizontal	184	1.00	-	31.20	5.60	31.97
PK	7.38284G	51.94	74.00	-22.06	42.47	3	Horizontal	266	2.34	-	36.07	6.90	33.50
AV	7.3882G	37.64	54.00	-16.36	28.19	3	Horizontal	266	2.34	-	36.05	6.90	33.50

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

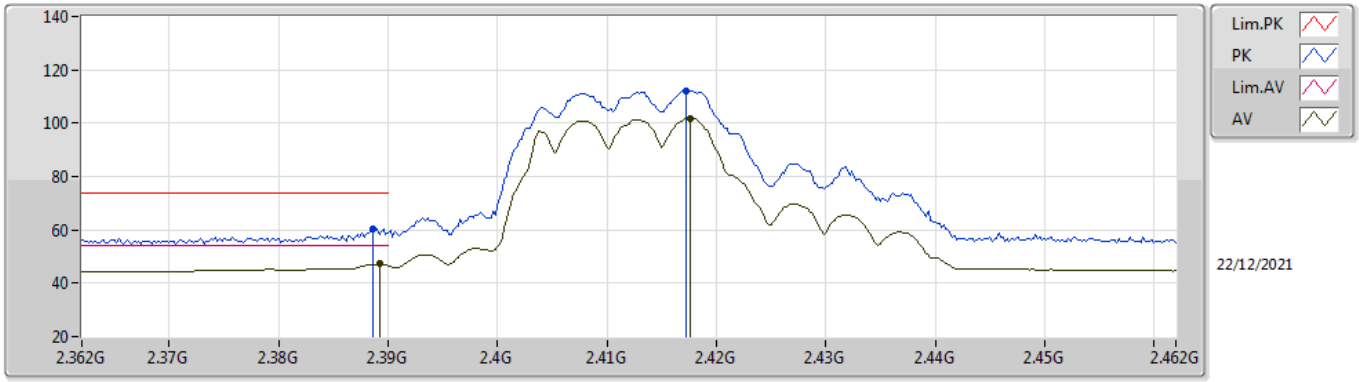


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	68.01	74.00	-5.99	36.74	3	Vertical	256	2.20	-	27.48	3.79	-
AV	2.39G	53.71	54.00	-0.29	22.44	3	Vertical	256	2.20	-	27.48	3.79	-
PK	2.4146G	118.36	Inf	-Inf	87.21	3	Vertical	256	2.20	-	27.34	3.81	-
AV	2.41G	107.78	Inf	-Inf	76.61	3	Vertical	256	2.20	-	27.36	3.81	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

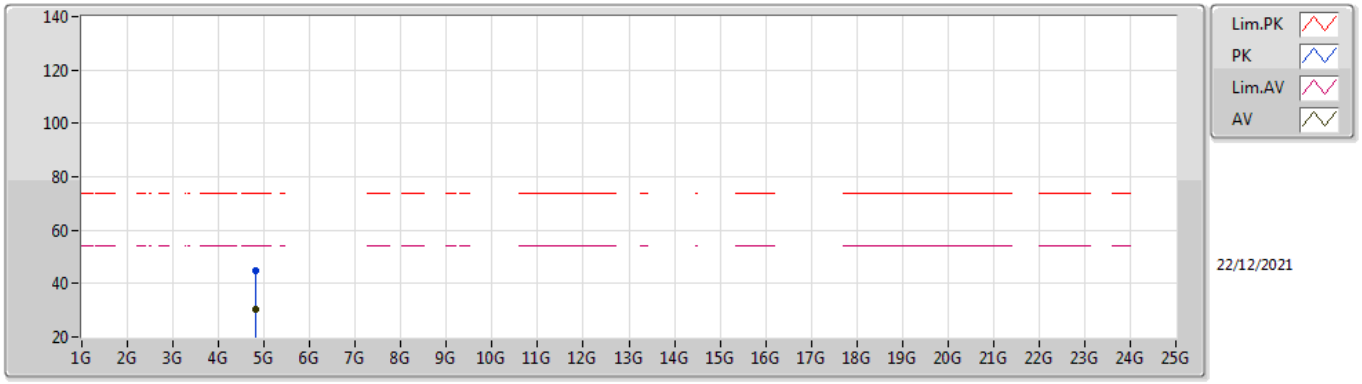


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3886G	60.53	74.00	-13.47	29.25	3	Horizontal	211	2.78	-	27.49	3.79	-
AV	2.3892G	47.16	54.00	-6.84	15.88	3	Horizontal	211	2.78	-	27.49	3.79	-
PK	2.4172G	112.02	Inf	-Inf	80.87	3	Horizontal	211	2.78	-	27.33	3.82	-
AV	2.4176G	101.72	Inf	-Inf	70.57	3	Horizontal	211	2.78	-	27.33	3.82	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

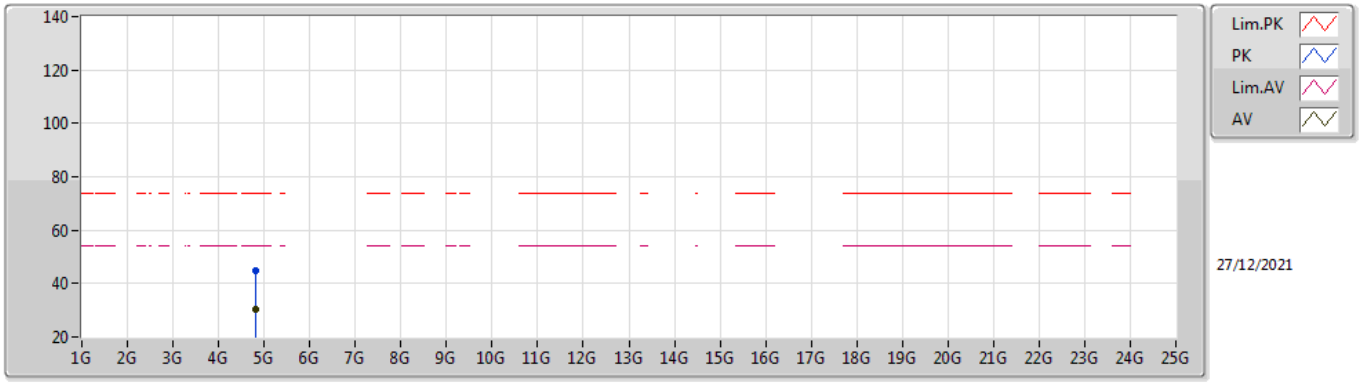


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82574G	44.99	74.00	-29.01	40.40	3	Vertical	5	2.13	-	31.05	5.60	32.06
AV	4.81984G	30.59	54.00	-23.41	25.99	3	Vertical	5	2.13	-	31.06	5.60	32.06

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

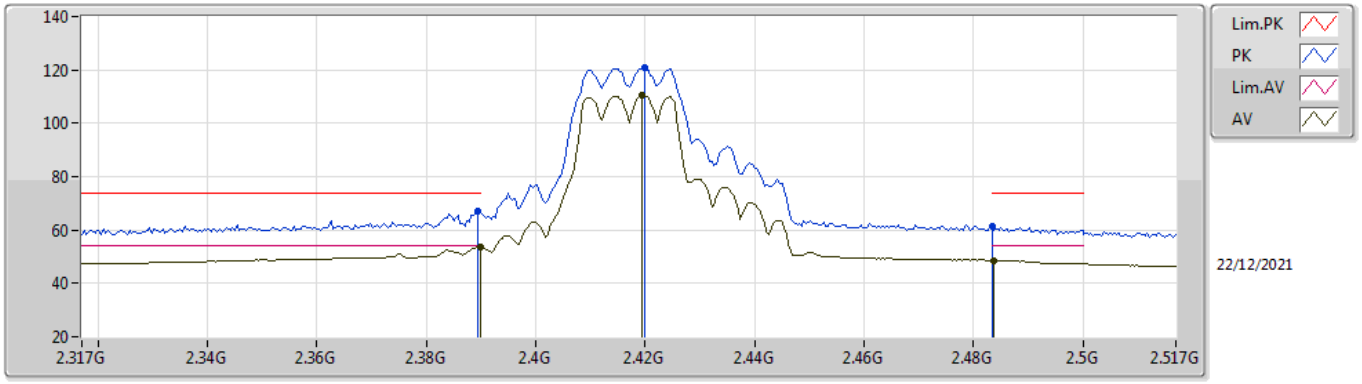


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82164G	44.86	74.00	-29.14	40.26	3	Horizontal	273	2.98	-	31.06	5.60	32.06
AV	4.82696G	30.58	54.00	-23.42	25.99	3	Horizontal	273	2.98	-	31.05	5.60	32.06

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

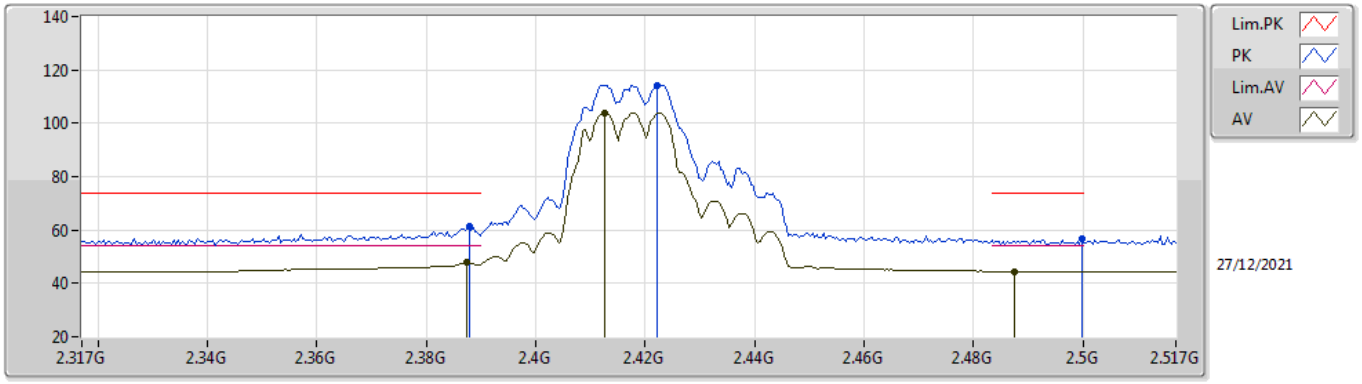


EUT Y_2TX
Setting 94
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3894G	67.18	74.00	-6.82	35.91	3	Vertical	255	2.21	-	27.48	3.79	-
AV	2.3898G	53.57	54.00	-0.43	22.30	3	Vertical	255	2.21	-	27.48	3.79	-
PK	2.4198G	120.64	Inf	-Inf	89.50	3	Vertical	255	2.21	-	27.32	3.82	-
AV	2.4194G	110.44	Inf	-Inf	79.30	3	Vertical	255	2.21	-	27.32	3.82	-
PK	2.4835G	61.19	74.00	-12.81	30.04	3	Vertical	255	2.21	-	27.27	3.88	-
AV	2.4838G	48.64	54.00	-5.36	17.49	3	Vertical	255	2.21	-	27.27	3.88	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

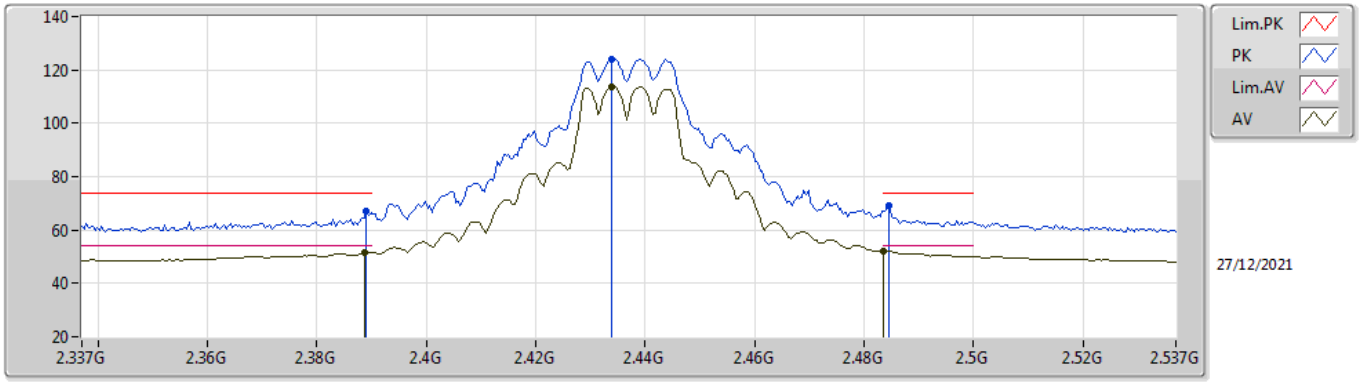


EUT Y_2TX
Setting 94
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3878G	61.17	74.00	-12.83	29.88	3	Horizontal	204	2.53	-	27.50	3.79	-
AV	2.3874G	47.84	54.00	-6.16	16.55	3	Horizontal	204	2.53	-	27.50	3.79	-
PK	2.4222G	114.35	Inf	-Inf	83.22	3	Horizontal	204	2.53	-	27.31	3.82	-
AV	2.4126G	103.93	Inf	-Inf	72.77	3	Horizontal	204	2.53	-	27.35	3.81	-
PK	2.4998G	56.47	74.00	-17.53	25.27	3	Horizontal	204	2.53	-	27.30	3.90	-
AV	2.4874G	44.54	54.00	-9.46	13.38	3	Horizontal	204	2.53	-	27.27	3.89	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

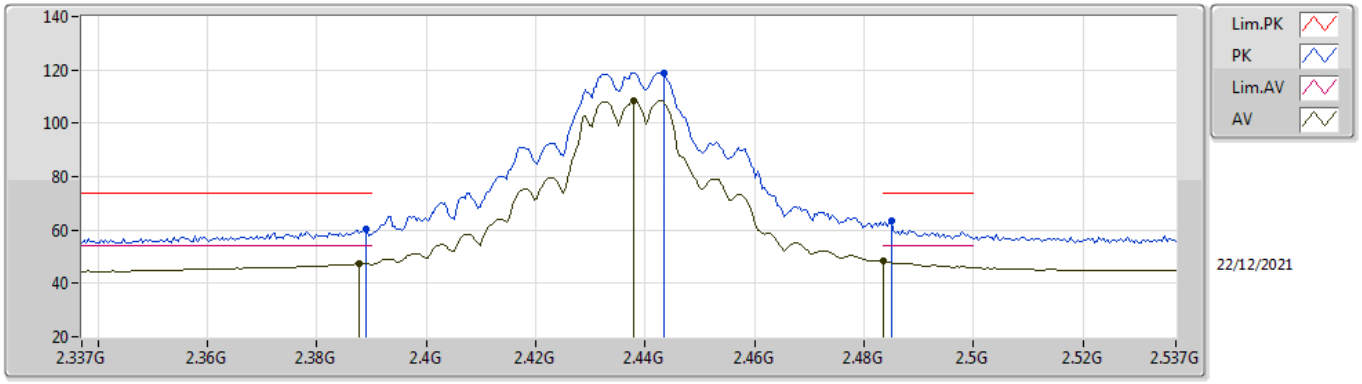


EUT Y_2TX
Setting 110
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.389G	66.99	74.00	-7.01	35.71	3	Vertical	131	1.80	-	27.49	3.79	-
AV	2.3886G	51.63	54.00	-2.37	20.35	3	Vertical	131	1.80	-	27.49	3.79	-
PK	2.4338G	124.14	Inf	-Inf	93.05	3	Vertical	131	1.80	-	27.26	3.83	-
AV	2.4338G	113.67	Inf	-Inf	82.58	3	Vertical	131	1.80	-	27.26	3.83	-
PK	2.4846G	69.20	74.00	-4.80	38.05	3	Vertical	131	1.80	-	27.27	3.88	-
AV	2.4835G	52.25	54.00	-1.75	21.10	3	Vertical	131	1.80	-	27.27	3.88	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

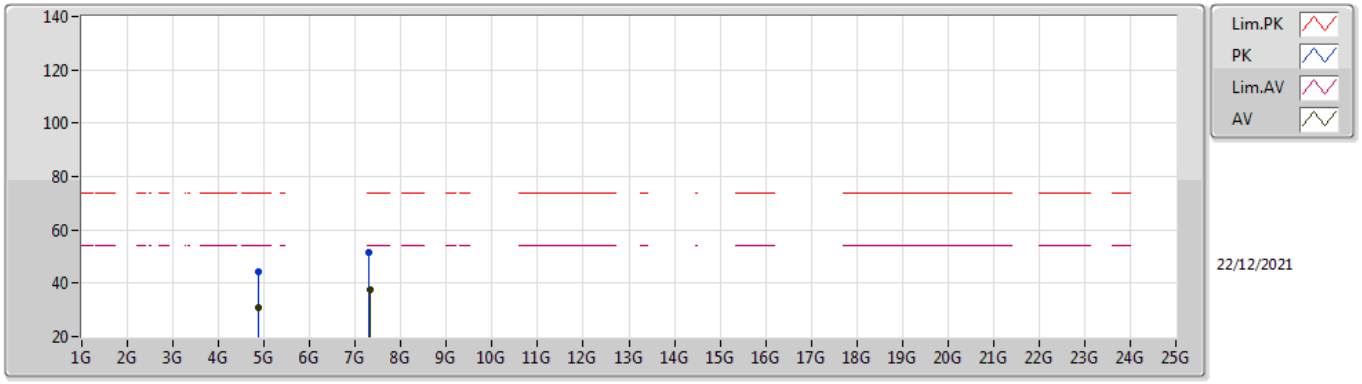


EUT Y_2TX
Setting 110
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.389G	60.13	74.00	-13.87	28.85	3	Horizontal	205	2.49	-	27.49	3.79	-
AV	2.3878G	47.57	54.00	-6.43	16.28	3	Horizontal	205	2.49	-	27.50	3.79	-
PK	2.4434G	118.84	Inf	-Inf	87.77	3	Horizontal	205	2.49	-	27.23	3.84	-
AV	2.4378G	108.51	Inf	-Inf	77.42	3	Horizontal	205	2.49	-	27.25	3.84	-
PK	2.485G	63.62	74.00	-10.38	32.46	3	Horizontal	205	2.49	-	27.27	3.89	-
AV	2.4835G	48.39	54.00	-5.61	17.24	3	Horizontal	205	2.49	-	27.27	3.88	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

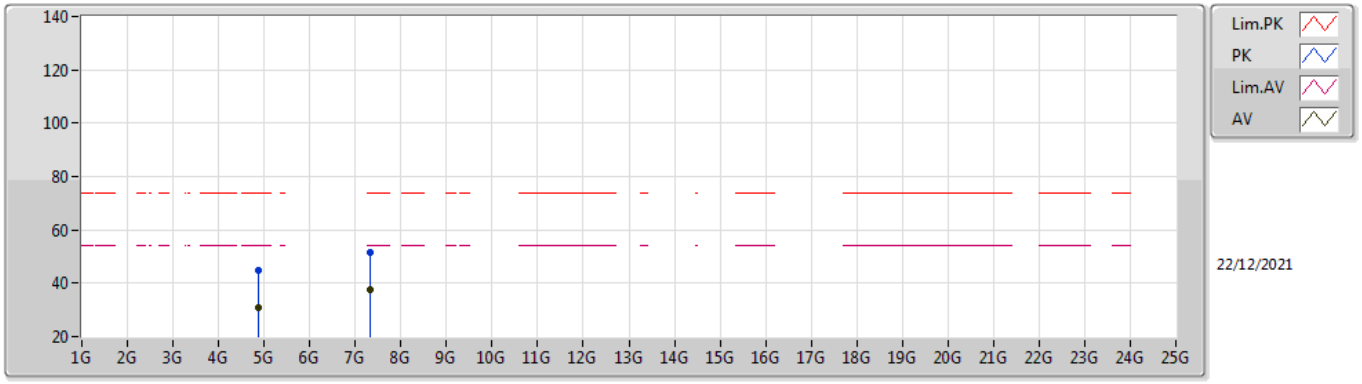


EUT Y_2TX
Setting 110
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87844G	44.45	74.00	-29.55	39.80	3	Vertical	174	1.72	-	31.06	5.60	32.01
AV	4.87814G	30.89	54.00	-23.11	26.24	3	Vertical	174	1.72	-	31.06	5.60	32.01
PK	7.30804G	51.53	74.00	-22.47	41.72	3	Vertical	282	1.86	-	36.37	6.90	33.46
AV	7.31244G	37.77	54.00	-16.23	27.99	3	Vertical	282	1.86	-	36.35	6.90	33.47

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

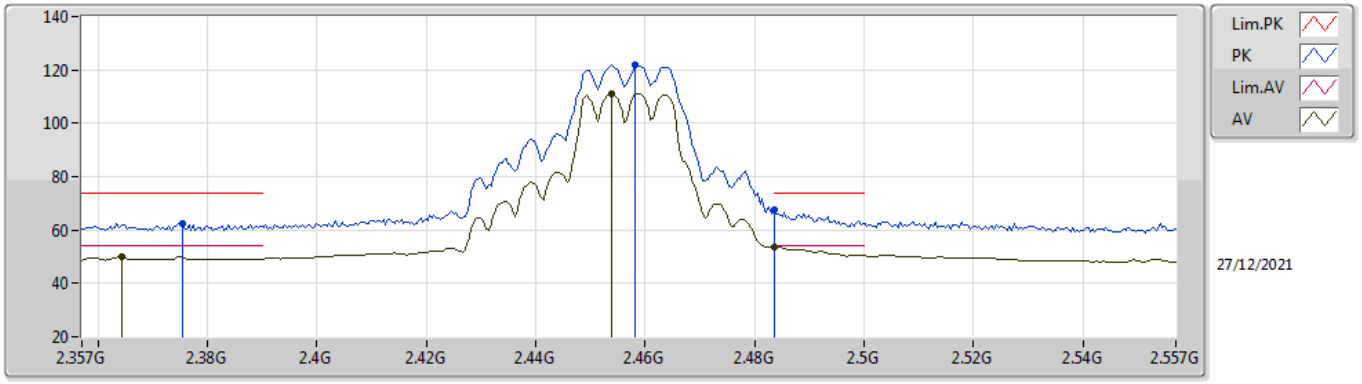


EUT Y_2TX
Setting 110
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8758G	44.72	74.00	-29.28	40.08	3	Horizontal	174	1.80	-	31.05	5.60	32.01
AV	4.8718G	30.84	54.00	-23.16	26.22	3	Horizontal	174	1.80	-	31.04	5.60	32.02
PK	7.31876G	51.34	74.00	-22.66	41.59	3	Horizontal	189	2.20	-	36.32	6.90	33.47
AV	7.31276G	37.76	54.00	-16.24	27.98	3	Horizontal	189	2.20	-	36.35	6.90	33.47

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

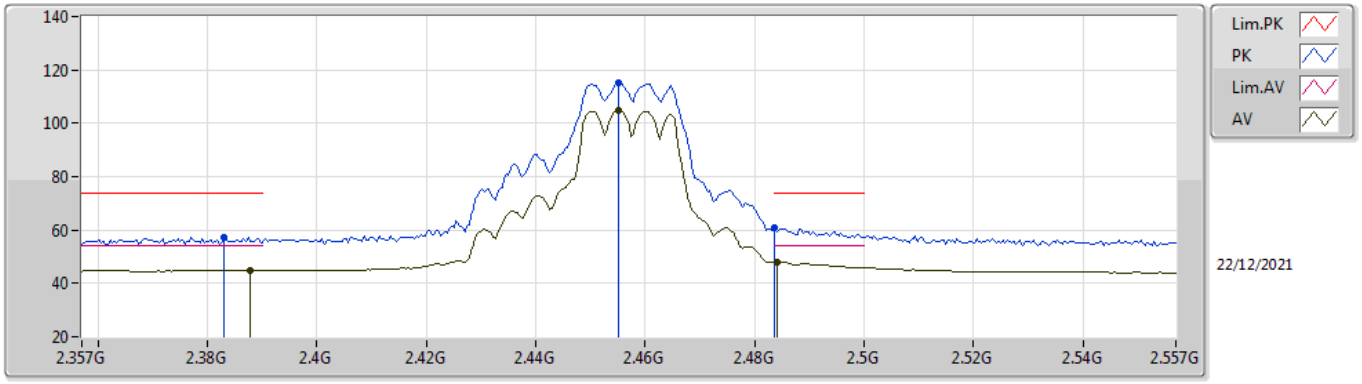


EUT Y_2TX
Setting 100
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3754G	62.48	74.00	-11.52	31.09	3	Vertical	86	1.80	-	27.60	3.79	-
AV	2.3642G	49.88	54.00	-4.12	18.41	3	Vertical	86	1.80	-	27.69	3.78	-
PK	2.4582G	122.08	Inf	-Inf	91.00	3	Vertical	86	1.80	-	27.22	3.86	-
AV	2.4538G	111.20	Inf	-Inf	80.14	3	Vertical	86	1.80	-	27.21	3.85	-
PK	2.4835G	67.49	74.00	-6.51	36.34	3	Vertical	86	1.80	-	27.27	3.88	-
AV	2.4835G	53.83	54.00	-0.17	22.68	3	Vertical	86	1.80	-	27.27	3.88	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

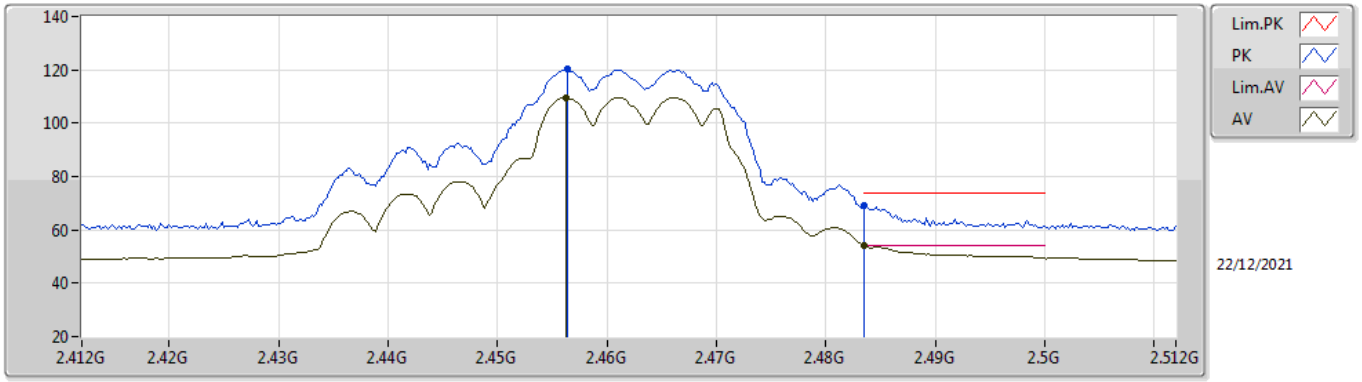


EUT Y_2TX
Setting 100
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.383G	57.13	74.00	-16.87	25.80	3	Horizontal	27	2.48	-	27.54	3.79	-
AV	2.3878G	44.95	54.00	-9.05	13.66	3	Horizontal	27	2.48	-	27.50	3.79	-
PK	2.455G	115.02	Inf	-Inf	83.96	3	Horizontal	27	2.48	-	27.21	3.85	-
AV	2.455G	104.78	Inf	-Inf	73.72	3	Horizontal	27	2.48	-	27.21	3.85	-
PK	2.4835G	61.11	74.00	-12.89	29.96	3	Horizontal	27	2.48	-	27.27	3.88	-
AV	2.4842G	48.08	54.00	-5.92	16.93	3	Horizontal	27	2.48	-	27.27	3.88	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

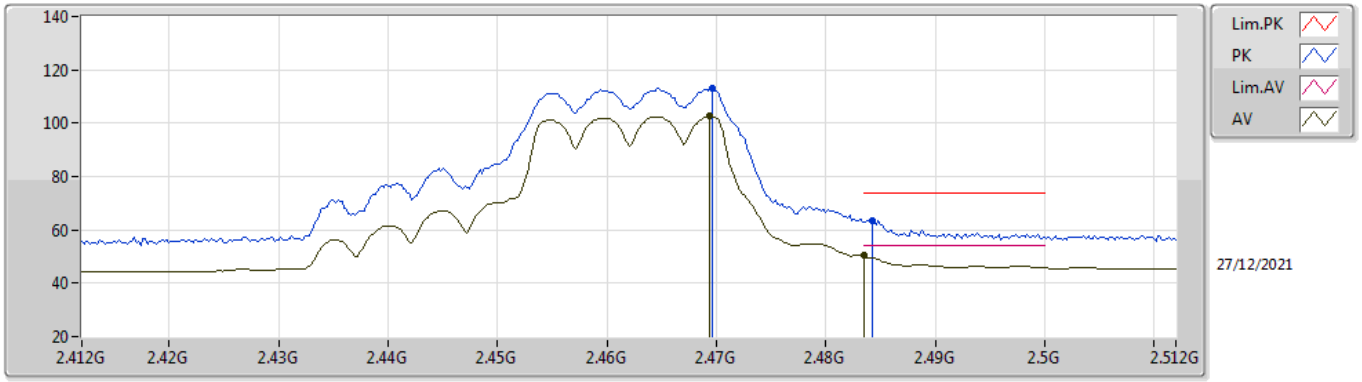


EUT Y_2TX
Setting 95
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4564G	120.10	Inf	-Inf	89.03	3	Vertical	89	1.91	-	27.21	3.86	-
AV	2.4562G	109.54	Inf	-Inf	78.47	3	Vertical	89	1.91	-	27.21	3.86	-
PK	2.4835G	69.06	74.00	-4.94	37.91	3	Vertical	89	1.91	-	27.27	3.88	-
AV	2.4835G	53.96	54.00	-0.04	22.81	3	Vertical	89	1.91	-	27.27	3.88	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

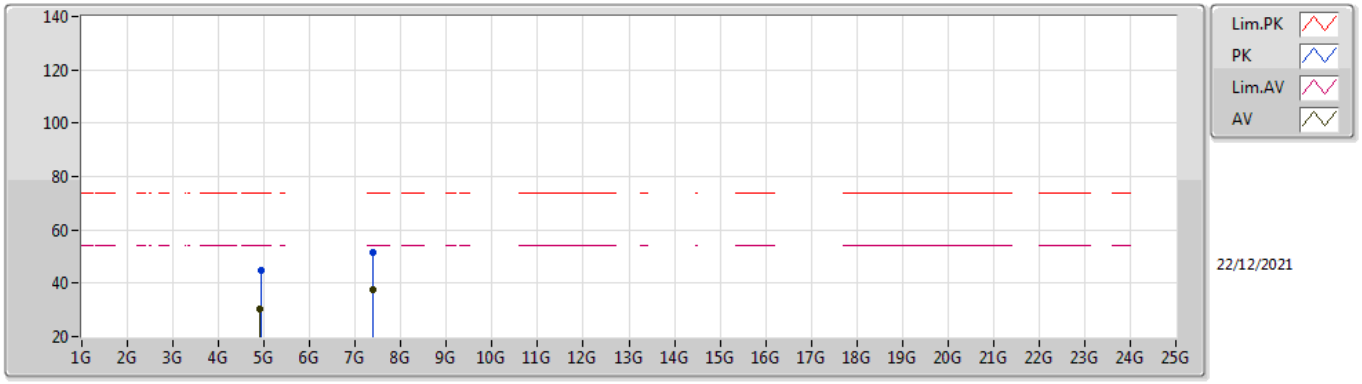


EUT Y_2TX
Setting 95
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4696G	113.34	Inf	-Inf	82.23	3	Horizontal	117	1.58	-	27.24	3.87	-
AV	2.4694G	102.55	Inf	-Inf	71.44	3	Horizontal	117	1.58	-	27.24	3.87	-
PK	2.4842G	63.57	74.00	-10.43	32.42	3	Horizontal	117	1.58	-	27.27	3.88	-
AV	2.4835G	50.40	54.00	-3.60	19.25	3	Horizontal	117	1.58	-	27.27	3.88	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

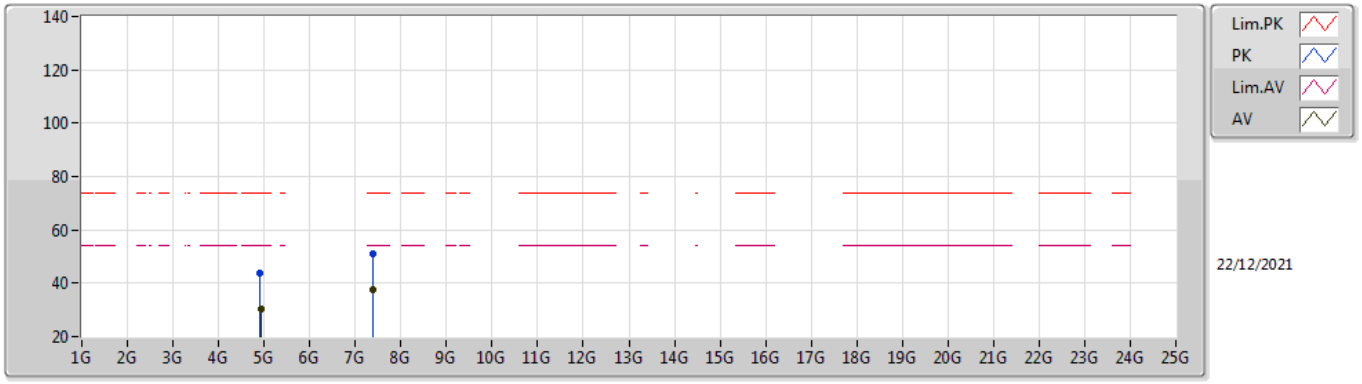


EUT Y_2TX
Setting 95
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.93372G	44.73	74.00	-29.27	39.87	3	Vertical	192	1.80	-	31.23	5.60	31.97
AV	4.91536G	30.27	54.00	-23.73	25.49	3	Vertical	192	1.80	-	31.16	5.60	31.98
PK	7.38992G	51.43	74.00	-22.57	41.99	3	Vertical	13	1.80	-	36.04	6.90	33.50
AV	7.39088G	37.60	54.00	-16.40	28.17	3	Vertical	13	1.80	-	36.04	6.90	33.51

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX



EUT Y_2TX
Setting 95
06-D-S-8

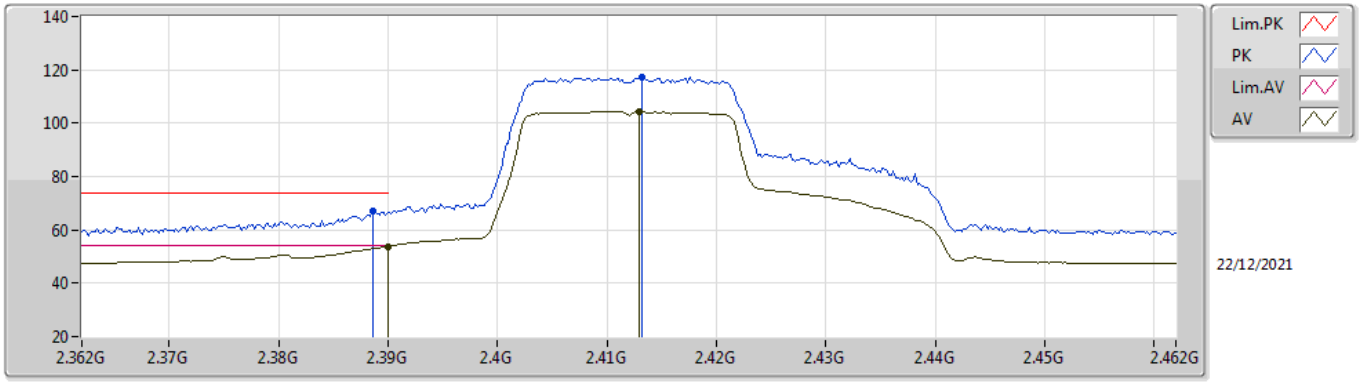
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.91864G	44.02	74.00	-29.98	39.23	3	Horizontal	227	2.82	-	31.17	5.60	31.98
AV	4.92676G	30.30	54.00	-23.70	25.46	3	Horizontal	227	2.82	-	31.21	5.60	31.97
PK	7.39068G	50.99	74.00	-23.01	41.56	3	Horizontal	6	2.48	-	36.04	6.90	33.51
AV	7.3944G	37.54	54.00	-16.46	28.13	3	Horizontal	6	2.48	-	36.02	6.90	33.51

Test Mode: non-beamforming 2T2S mode:
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss2,(MCS0)_2TX	Pass	AV	2.4835G	53.96	54.00	-0.04	3	Vertical	100	1.80	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2412MHz_TX

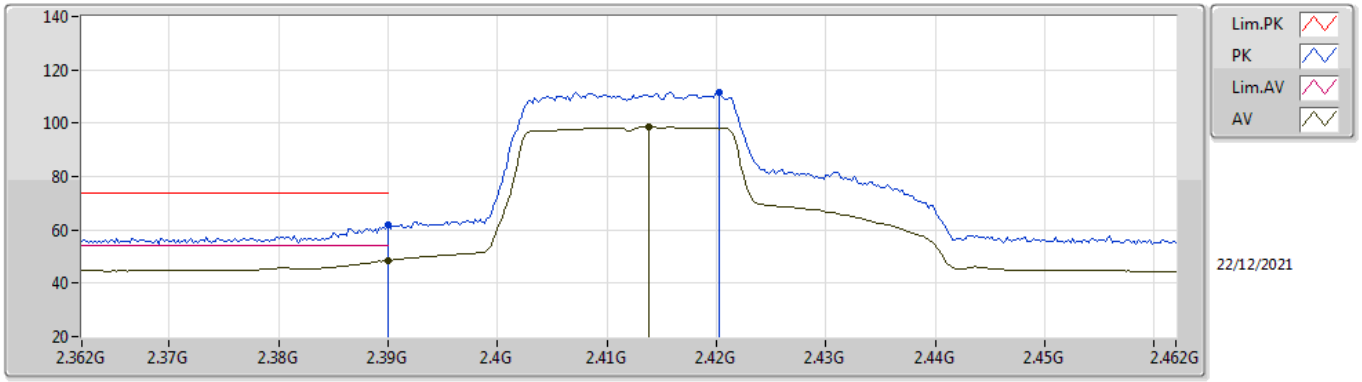


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3886G	67.11	74.00	-6.89	35.83	3	Vertical	256	2.49	-	27.49	3.79	-
AV	2.39G	53.86	54.00	-0.14	22.59	3	Vertical	256	2.49	-	27.48	3.79	-
PK	2.4132G	117.47	Inf	-Inf	86.31	3	Vertical	256	2.49	-	27.35	3.81	-
AV	2.413G	104.40	Inf	-Inf	73.24	3	Vertical	256	2.49	-	27.35	3.81	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2412MHz_TX

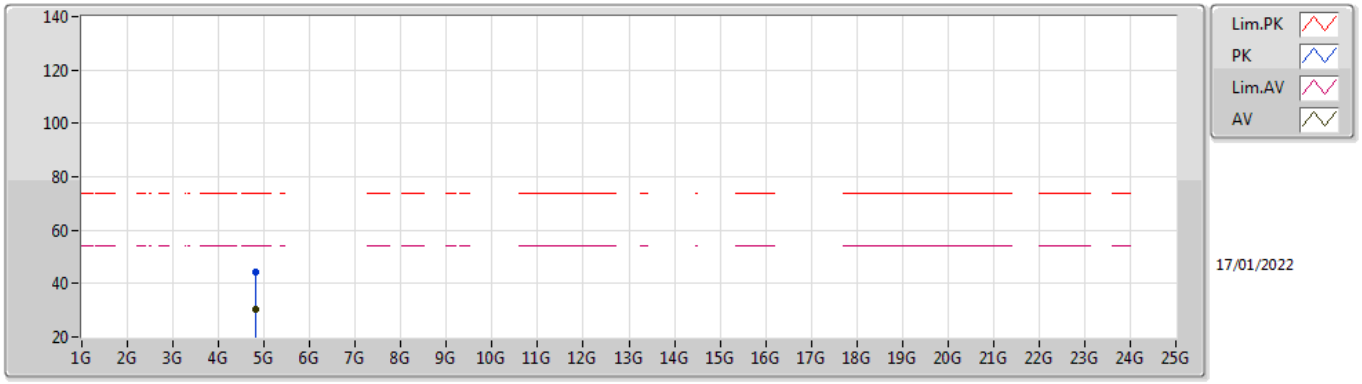


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	61.71	74.00	-12.29	30.44	3	Horizontal	204	2.51	-	27.48	3.79	-
AV	2.39G	48.47	54.00	-5.53	17.20	3	Horizontal	204	2.51	-	27.48	3.79	-
PK	2.4202G	111.44	Inf	-Inf	80.30	3	Horizontal	204	2.51	-	27.32	3.82	-
AV	2.4138G	98.64	Inf	-Inf	67.49	3	Horizontal	204	2.51	-	27.34	3.81	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2412MHz_TX

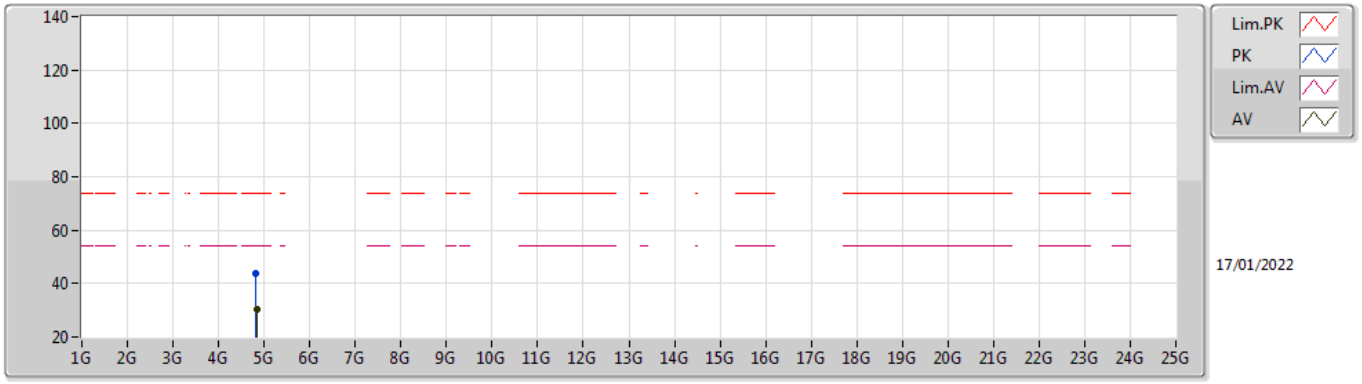


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.80966G	44.17	74.00	-29.83	39.56	3	Vertical	98	1.80	-	31.08	5.60	32.07
AV	4.82748G	30.60	54.00	-23.40	26.00	3	Vertical	98	1.80	-	31.05	5.60	32.05

802.11ax HEW20_Nss2,(MCS0)_2TX

2412MHz_TX

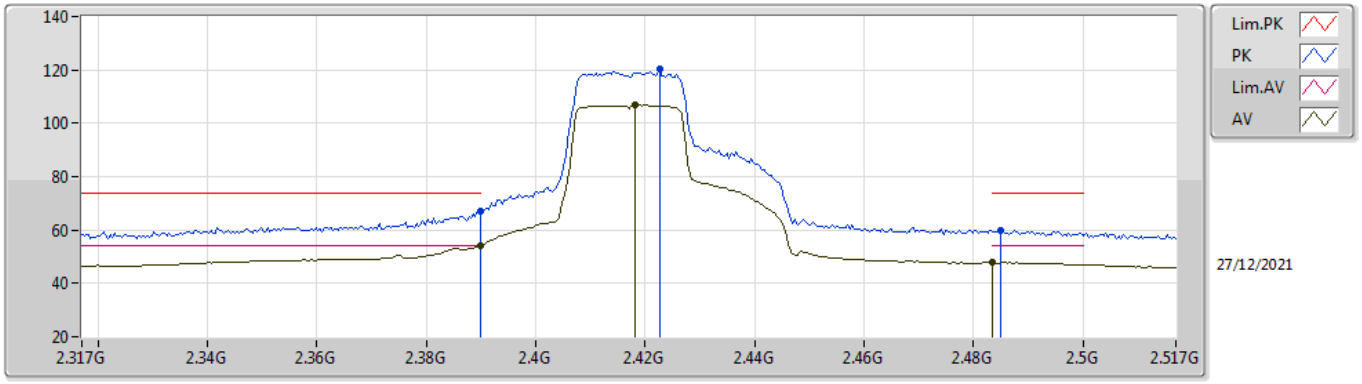


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8111G	44.00	74.00	-30.00	39.39	3	Horizontal	196	1.80	-	31.08	5.60	32.07
AV	4.83642G	30.53	54.00	-23.47	25.95	3	Horizontal	196	1.80	-	31.03	5.60	32.05

802.11ax HEW20_Nss2,(MCS0)_2TX

2417MHz_TX

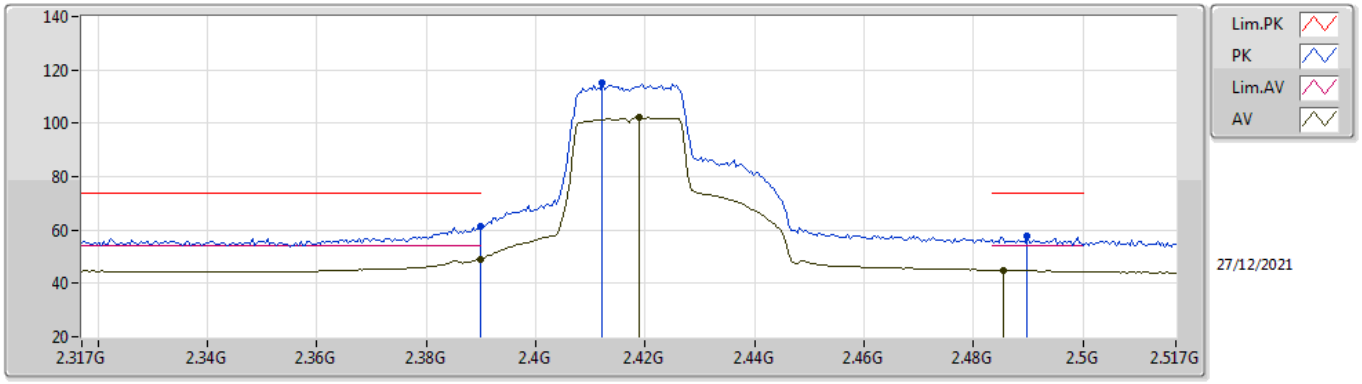


EUT Y_2TX
Setting 94
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	66.86	74.00	-7.14	35.59	3	Vertical	269	2.27	-	27.48	3.79	-
AV	2.3898G	53.93	54.00	-0.07	22.66	3	Vertical	269	2.27	-	27.48	3.79	-
PK	2.4226G	120.38	Inf	-Inf	89.25	3	Vertical	269	2.27	-	27.31	3.82	-
AV	2.4182G	106.81	Inf	-Inf	75.66	3	Vertical	269	2.27	-	27.33	3.82	-
PK	2.485G	59.86	74.00	-14.14	28.70	3	Vertical	269	2.27	-	27.27	3.89	-
AV	2.4835G	47.75	54.00	-6.25	16.60	3	Vertical	269	2.27	-	27.27	3.88	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2417MHz_TX

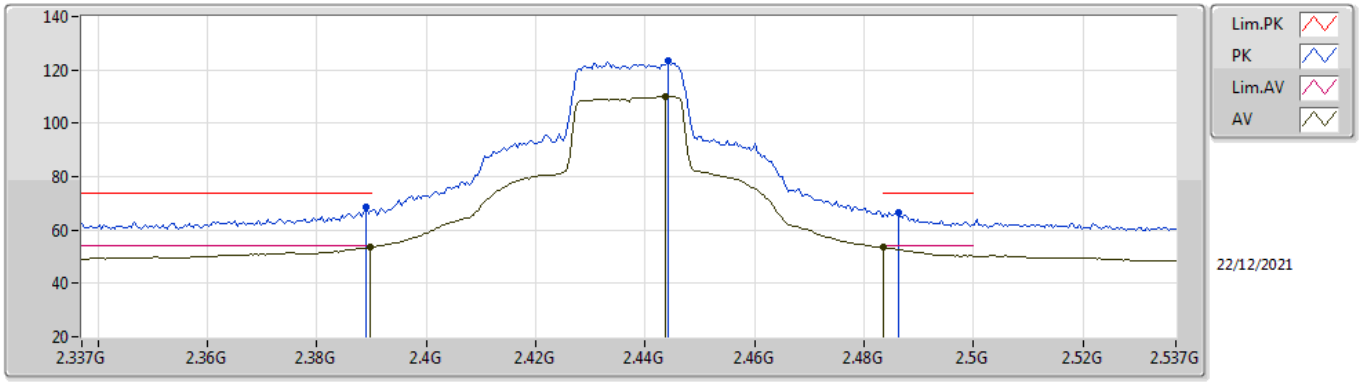


EUT Y_2TX
Setting 94
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	61.35	74.00	-12.65	30.08	3	Horizontal	203	2.52	-	27.48	3.79	-
AV	2.3898G	49.02	54.00	-4.98	17.75	3	Horizontal	203	2.52	-	27.48	3.79	-
PK	2.4122G	114.99	Inf	-Inf	83.83	3	Horizontal	203	2.52	-	27.35	3.81	-
AV	2.419G	102.17	Inf	-Inf	71.03	3	Horizontal	203	2.52	-	27.32	3.82	-
PK	2.4898G	57.51	74.00	-16.49	26.34	3	Horizontal	203	2.52	-	27.28	3.89	-
AV	2.4854G	44.94	54.00	-9.06	13.78	3	Horizontal	203	2.52	-	27.27	3.89	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2437MHz_TX

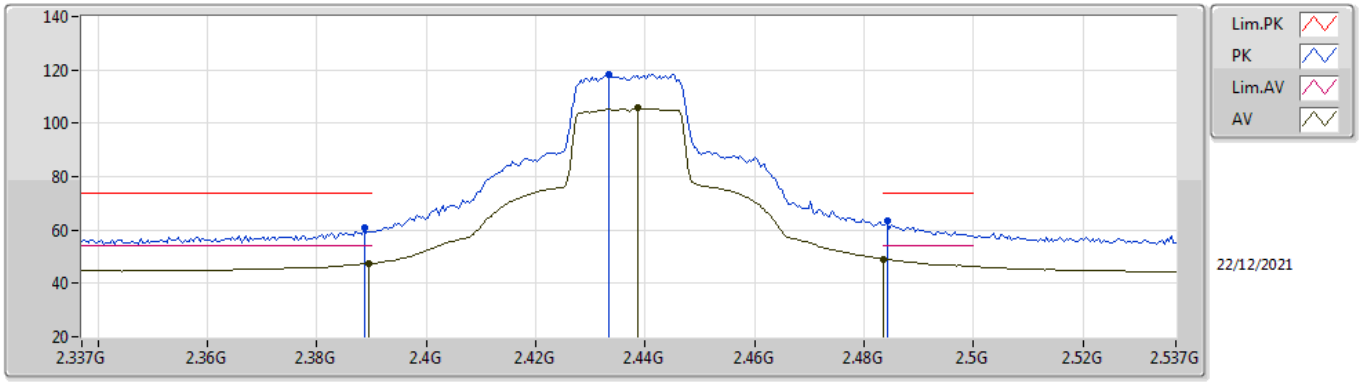


EUT Y_2TX
Setting 108
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.389G	68.85	74.00	-5.15	37.57	3	Vertical	84	1.79	-	27.49	3.79	-
AV	2.3898G	53.58	54.00	-0.42	22.31	3	Vertical	84	1.79	-	27.48	3.79	-
PK	2.4442G	123.40	Inf	-Inf	92.34	3	Vertical	84	1.79	-	27.22	3.84	-
AV	2.4438G	110.05	Inf	-Inf	78.99	3	Vertical	84	1.79	-	27.22	3.84	-
PK	2.4862G	66.37	74.00	-7.63	35.21	3	Vertical	84	1.79	-	27.27	3.89	-
AV	2.4835G	53.37	54.00	-0.63	22.22	3	Vertical	84	1.79	-	27.27	3.88	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2437MHz_TX

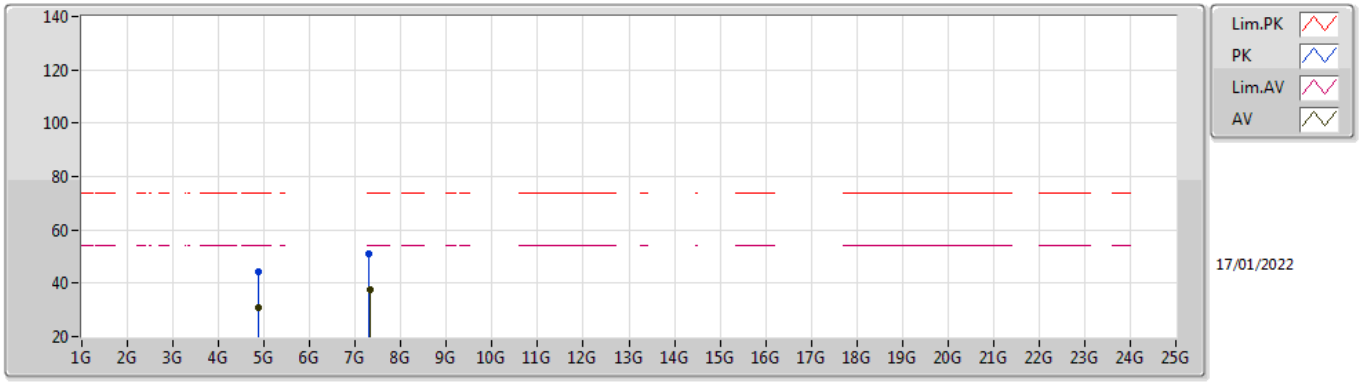


EUT Y_2TX
Setting 108
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3886G	61.01	74.00	-12.99	29.73	3	Horizontal	205	2.46	-	27.49	3.79	-
AV	2.3894G	47.46	54.00	-6.54	16.19	3	Horizontal	205	2.46	-	27.48	3.79	-
PK	2.4334G	118.46	Inf	-Inf	87.36	3	Horizontal	205	2.46	-	27.27	3.83	-
AV	2.4386G	105.68	Inf	-Inf	74.59	3	Horizontal	205	2.46	-	27.25	3.84	-
PK	2.4842G	63.28	74.00	-10.72	32.13	3	Horizontal	205	2.46	-	27.27	3.88	-
AV	2.4835G	49.21	54.00	-4.79	18.06	3	Horizontal	205	2.46	-	27.27	3.88	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2437MHz_TX

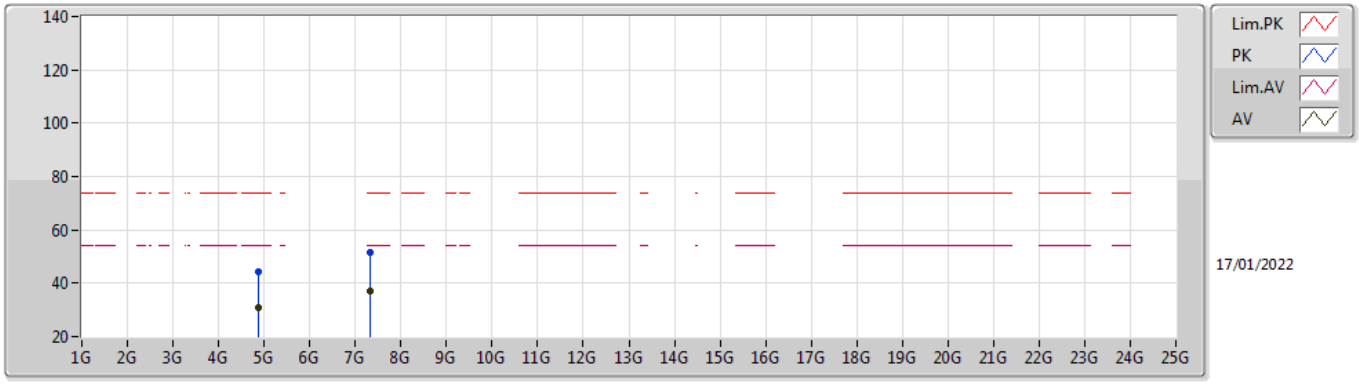


EUT Y_2TX
Setting 108
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87796G	44.38	74.00	-29.62	39.73	3	Vertical	327	1.80	-	31.06	5.60	32.01
AV	4.87184G	30.64	54.00	-23.36	26.02	3	Vertical	327	1.80	-	31.04	5.60	32.02
PK	7.3029G	51.25	74.00	-22.75	41.42	3	Vertical	100	1.80	-	36.39	6.90	33.46
AV	7.3188G	37.36	54.00	-16.64	27.61	3	Vertical	100	1.80	-	36.32	6.90	33.47

802.11ax HEW20_Nss2,(MCS0)_2TX

2437MHz_TX

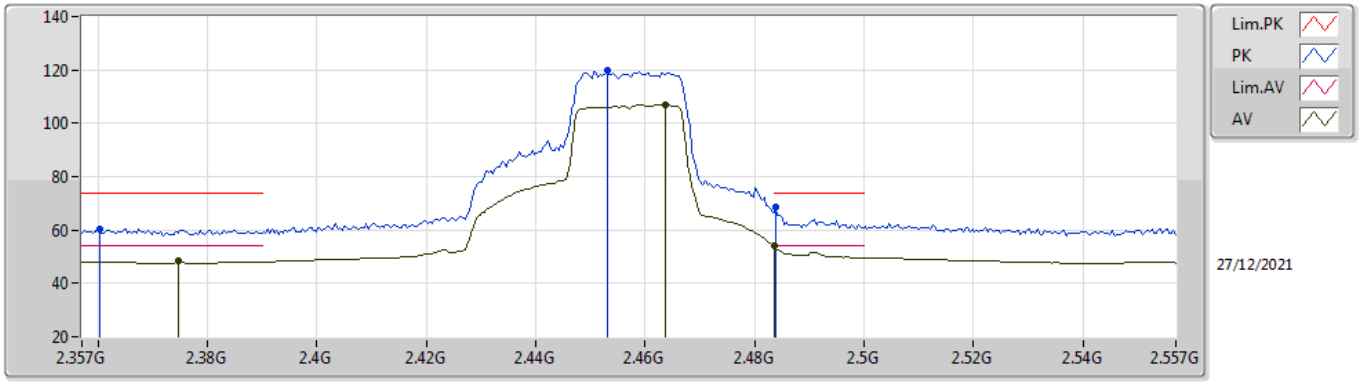


EUT Y_2TX
Setting 108
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.88108G	44.50	74.00	-29.50	39.85	3	Horizontal	121	2.96	-	31.06	5.60	32.01
AV	4.87832G	30.67	54.00	-23.33	26.02	3	Horizontal	121	2.96	-	31.06	5.60	32.01
PK	7.31196G	51.77	74.00	-22.23	41.99	3	Horizontal	137	1.80	-	36.35	6.90	33.47
AV	7.3185G	37.20	54.00	-16.80	27.44	3	Horizontal	137	1.80	-	36.33	6.90	33.47

802.11ax HEW20_Nss2,(MCS0)_2TX

2457MHz_TX

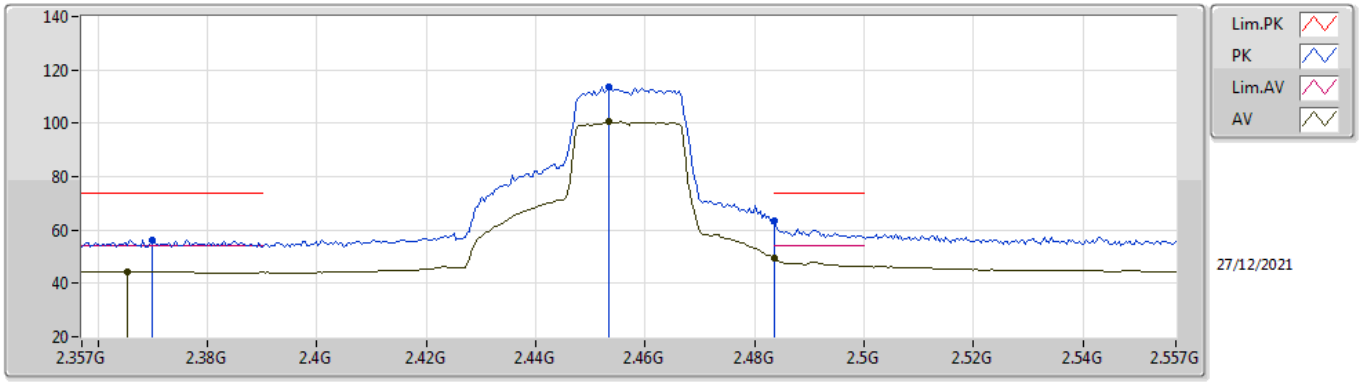


EUT Y_2TX
Setting 96
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3602G	60.25	74.00	-13.75	28.75	3	Vertical	84	1.80	-	27.72	3.78	-
AV	2.3746G	48.65	54.00	-5.35	17.26	3	Vertical	84	1.80	-	27.60	3.79	-
PK	2.453G	119.97	Inf	-Inf	88.91	3	Vertical	84	1.80	-	27.21	3.85	-
AV	2.4638G	106.81	Inf	-Inf	75.72	3	Vertical	84	1.80	-	27.23	3.86	-
PK	2.4838G	68.72	74.00	-5.28	37.57	3	Vertical	84	1.80	-	27.27	3.88	-
AV	2.4835G	53.88	54.00	-0.12	22.73	3	Vertical	84	1.80	-	27.27	3.88	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2457MHz_TX

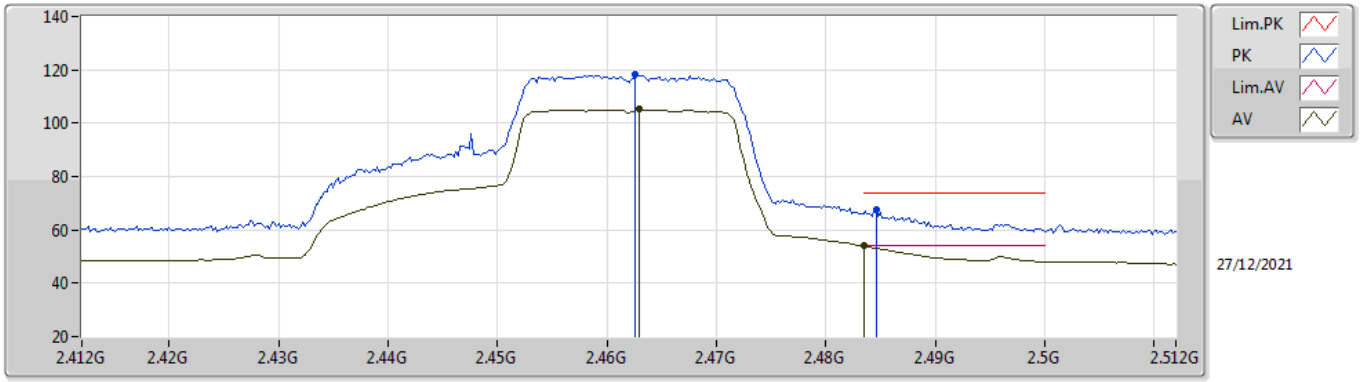


EUT Y_2TX
Setting 96
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3698G	56.34	74.00	-17.66	24.92	3	Horizontal	114	1.83	-	27.64	3.78	-
AV	2.3654G	44.30	54.00	-9.70	12.84	3	Horizontal	114	1.83	-	27.68	3.78	-
PK	2.4534G	113.64	Inf	-Inf	82.58	3	Horizontal	114	1.83	-	27.21	3.85	-
AV	2.4534G	100.50	Inf	-Inf	69.44	3	Horizontal	114	1.83	-	27.21	3.85	-
PK	2.4835G	63.29	74.00	-10.71	32.14	3	Horizontal	114	1.83	-	27.27	3.88	-
AV	2.4835G	49.28	54.00	-4.72	18.13	3	Horizontal	114	1.83	-	27.27	3.88	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz_TX

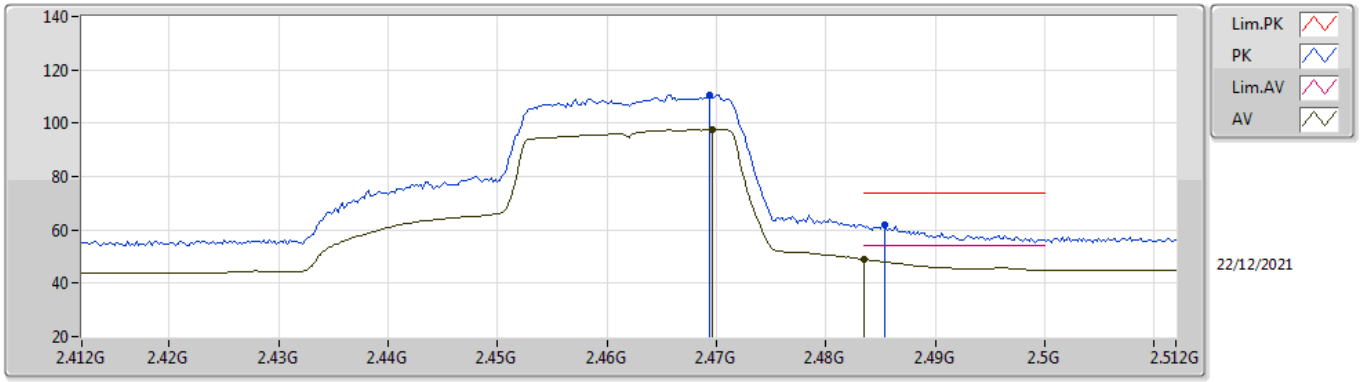


EUT Y_2TX
Setting 89
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4626G	118.06	Inf	-Inf	86.97	3	Vertical	253	2.48	-	27.23	3.86	-
AV	2.463G	105.10	Inf	-Inf	74.01	3	Vertical	253	2.48	-	27.23	3.86	-
PK	2.4846G	67.35	74.00	-6.65	36.20	3	Vertical	253	2.48	-	27.27	3.88	-
AV	2.4835G	53.92	54.00	-0.08	22.77	3	Vertical	253	2.48	-	27.27	3.88	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz_TX

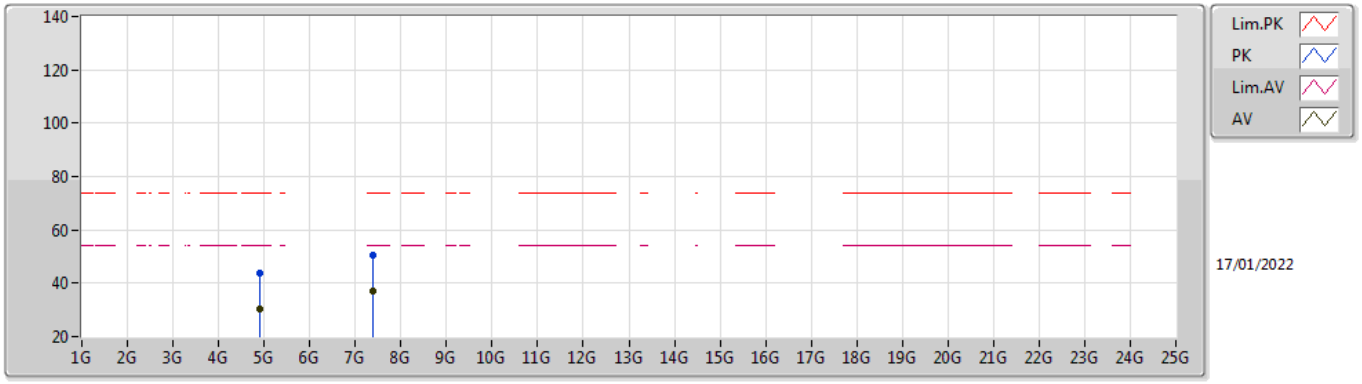


EUT Y_2TX
Setting 89
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4694G	110.73	Inf	-Inf	79.62	3	Horizontal	118	1.78	-	27.24	3.87	-
AV	2.4696G	97.55	Inf	-Inf	66.44	3	Horizontal	118	1.78	-	27.24	3.87	-
PK	2.4854G	61.65	74.00	-12.35	30.49	3	Horizontal	118	1.78	-	27.27	3.89	-
AV	2.4835G	48.91	54.00	-5.09	17.76	3	Horizontal	118	1.78	-	27.27	3.88	-

802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz_TX

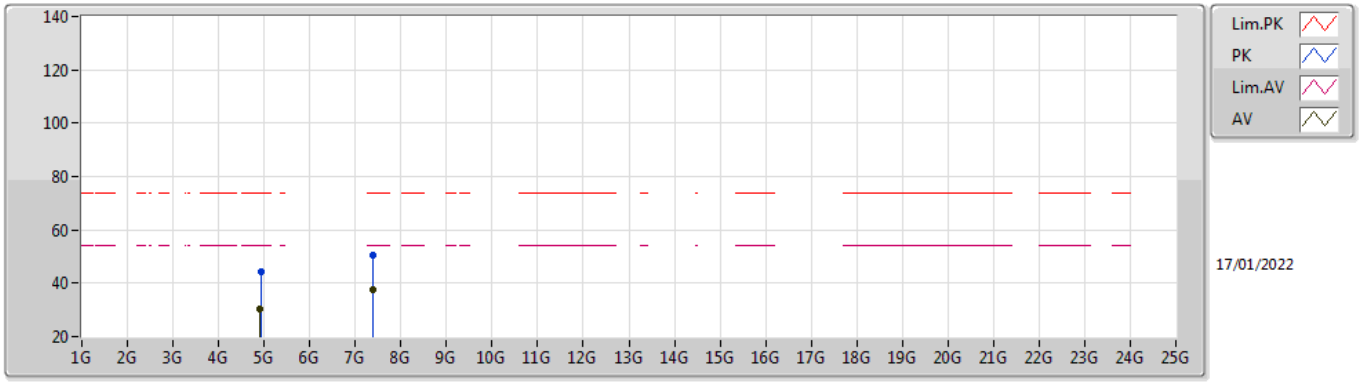


EUT Y_2TX
Setting 89
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.91482G	44.03	74.00	-29.97	39.25	3	Vertical	346	1.80	-	31.16	5.60	31.98
AV	4.909G	30.19	54.00	-23.81	25.44	3	Vertical	346	1.80	-	31.14	5.60	31.99
PK	7.38972G	50.58	74.00	-23.42	41.14	3	Vertical	222	2.01	-	36.04	6.90	33.50
AV	7.39434G	37.31	54.00	-16.69	27.90	3	Vertical	222	2.01	-	36.02	6.90	33.51

802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz_TX

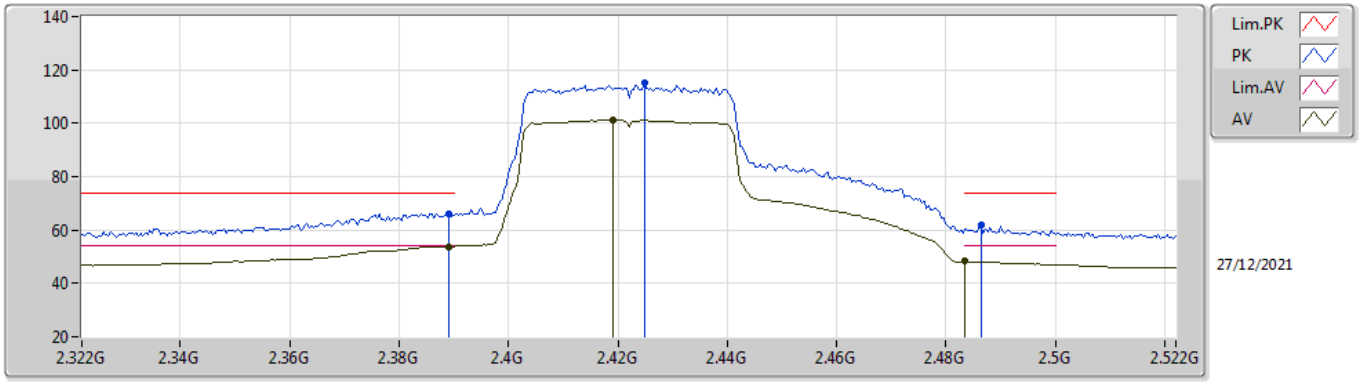


EUT Y_2TX
Setting 89
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92622G	44.09	74.00	-29.91	39.26	3	Horizontal	196	1.80	-	31.20	5.60	31.97
AV	4.91032G	30.18	54.00	-23.82	25.43	3	Horizontal	196	1.80	-	31.14	5.60	31.99
PK	7.39524G	50.73	74.00	-23.27	41.32	3	Horizontal	360	1.80	-	36.02	6.90	33.51
AV	7.3911G	37.40	54.00	-16.60	27.97	3	Horizontal	360	1.80	-	36.04	6.90	33.51

802.11ax HEW40_Nss2,(MCS0)_2TX

2422MHz_TX

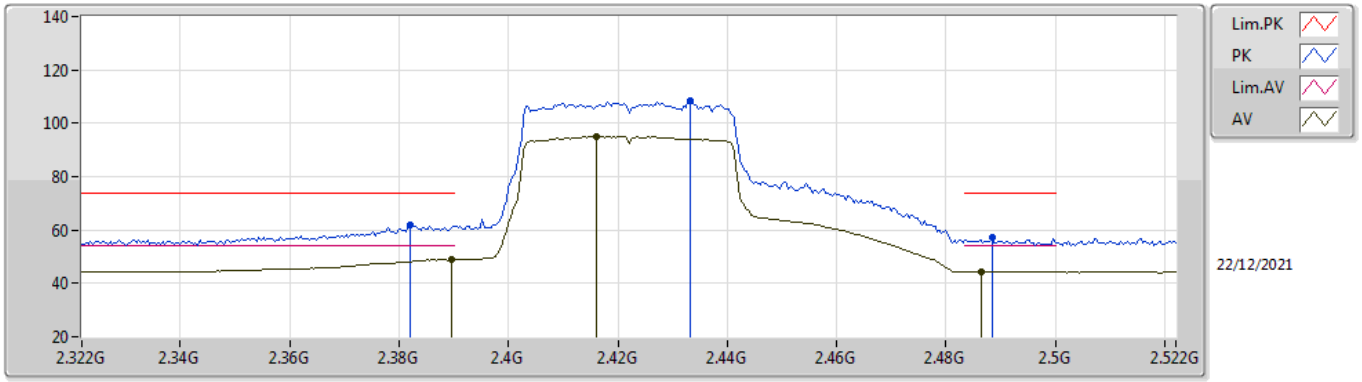


EUT Y_2TX
Setting 79
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3892G	66.09	74.00	-7.91	34.81	3	Vertical	257	2.20	-	27.49	3.79	-
AV	2.3892G	53.86	54.00	-0.14	22.58	3	Vertical	257	2.20	-	27.49	3.79	-
PK	2.4248G	115.41	Inf	-Inf	84.29	3	Vertical	257	2.20	-	27.30	3.82	-
AV	2.4192G	101.43	Inf	-Inf	70.29	3	Vertical	257	2.20	-	27.32	3.82	-
PK	2.4864G	61.92	74.00	-12.08	30.76	3	Vertical	257	2.20	-	27.27	3.89	-
AV	2.4835G	48.21	54.00	-5.79	17.06	3	Vertical	257	2.20	-	27.27	3.88	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2422MHz_TX

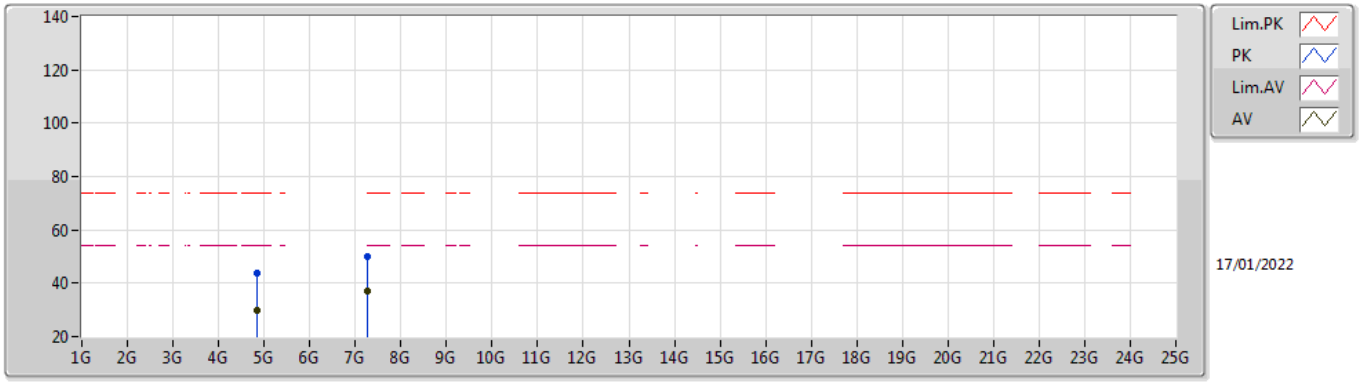


EUT Y_2TX
Setting 79
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.382G	61.76	74.00	-12.24	30.43	3	Horizontal	207	2.52	-	27.54	3.79	-
AV	2.3896G	48.87	54.00	-5.13	17.60	3	Horizontal	207	2.52	-	27.48	3.79	-
PK	2.4332G	108.55	Inf	-Inf	77.45	3	Horizontal	207	2.52	-	27.27	3.83	-
AV	2.416G	95.13	Inf	-Inf	63.97	3	Horizontal	207	2.52	-	27.34	3.82	-
PK	2.4884G	56.99	74.00	-17.01	25.82	3	Horizontal	207	2.52	-	27.28	3.89	-
AV	2.4864G	44.51	54.00	-9.49	13.35	3	Horizontal	207	2.52	-	27.27	3.89	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2422MHz_TX

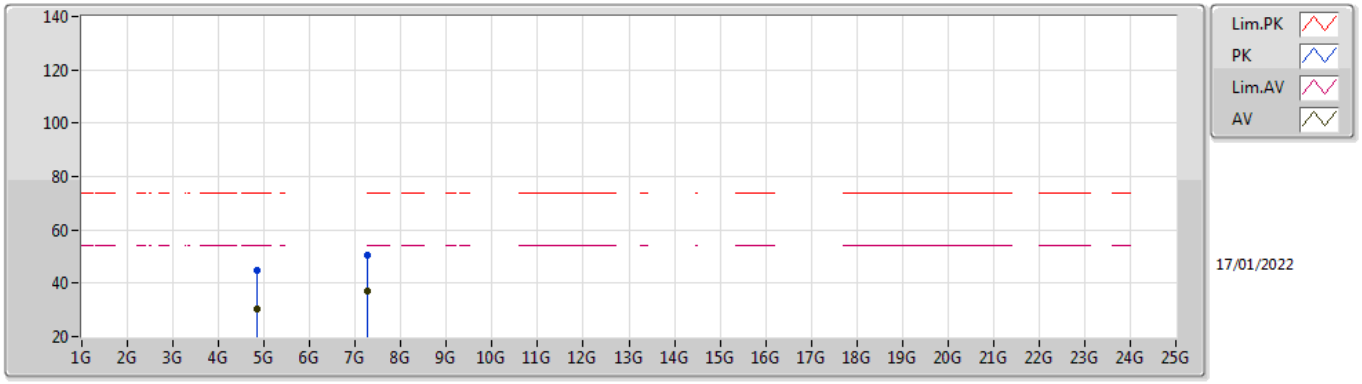


EUT Y_2TX
Setting 79
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.83746G	44.01	74.00	-29.99	39.43	3	Vertical	360	2.58	-	31.03	5.60	32.05
AV	4.83896G	30.08	54.00	-23.92	25.51	3	Vertical	360	2.58	-	31.02	5.60	32.05
PK	7.25556G	50.18	74.00	-23.82	40.41	3	Vertical	217	1.57	-	36.31	6.90	33.44
AV	7.25454G	37.01	54.00	-16.99	27.24	3	Vertical	217	1.57	-	36.31	6.90	33.44

802.11ax HEW40_Nss2,(MCS0)_2TX

2422MHz_TX

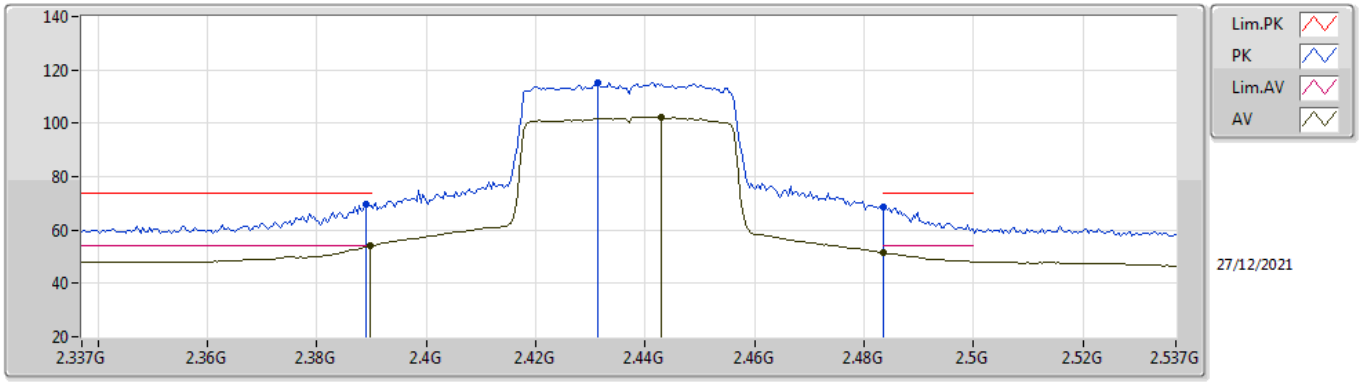


EUT Y_2TX
Setting 79
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.83236G	44.57	74.00	-29.43	39.98	3	Horizontal	261	1.80	-	31.04	5.60	32.05
AV	4.84088G	30.19	54.00	-23.81	25.61	3	Horizontal	261	1.80	-	31.02	5.60	32.04
PK	7.25316G	50.59	74.00	-23.41	40.82	3	Horizontal	124	2.85	-	36.31	6.90	33.44
AV	7.25142G	37.02	54.00	-16.98	27.26	3	Horizontal	124	2.85	-	36.30	6.90	33.44

802.11ax HEW40_Nss2,(MCS0)_2TX

2437MHz_TX

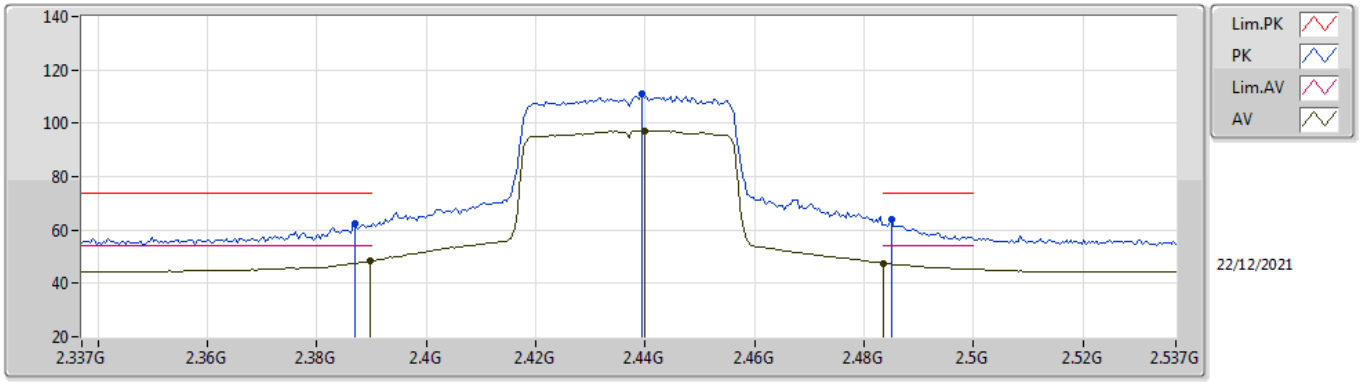


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.389G	69.63	74.00	-4.37	38.35	3	Vertical	84	2.69	-	27.49	3.79	-
AV	2.3898G	53.89	54.00	-0.11	22.62	3	Vertical	84	2.69	-	27.48	3.79	-
PK	2.4314G	115.37	Inf	-Inf	84.27	3	Vertical	84	2.69	-	27.27	3.83	-
AV	2.443G	102.21	Inf	-Inf	71.14	3	Vertical	84	2.69	-	27.23	3.84	-
PK	2.4835G	68.41	74.00	-5.59	37.26	3	Vertical	84	2.69	-	27.27	3.88	-
AV	2.4835G	51.54	54.00	-2.46	20.39	3	Vertical	84	2.69	-	27.27	3.88	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2437MHz_TX

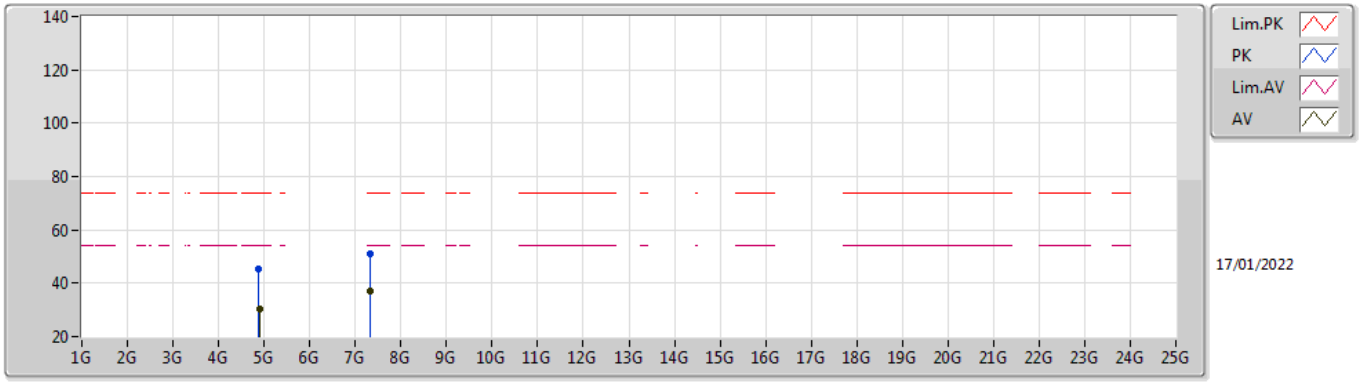


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.387G	62.48	74.00	-11.52	31.19	3	Horizontal	206	2.47	-	27.50	3.79	-
AV	2.3898G	48.31	54.00	-5.69	17.04	3	Horizontal	206	2.47	-	27.48	3.79	-
PK	2.4394G	110.86	Inf	-Inf	79.78	3	Horizontal	206	2.47	-	27.24	3.84	-
AV	2.4398G	97.29	Inf	-Inf	66.21	3	Horizontal	206	2.47	-	27.24	3.84	-
PK	2.485G	63.81	74.00	-10.19	32.65	3	Horizontal	206	2.47	-	27.27	3.89	-
AV	2.4835G	47.63	54.00	-6.37	16.48	3	Horizontal	206	2.47	-	27.27	3.88	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2437MHz_TX

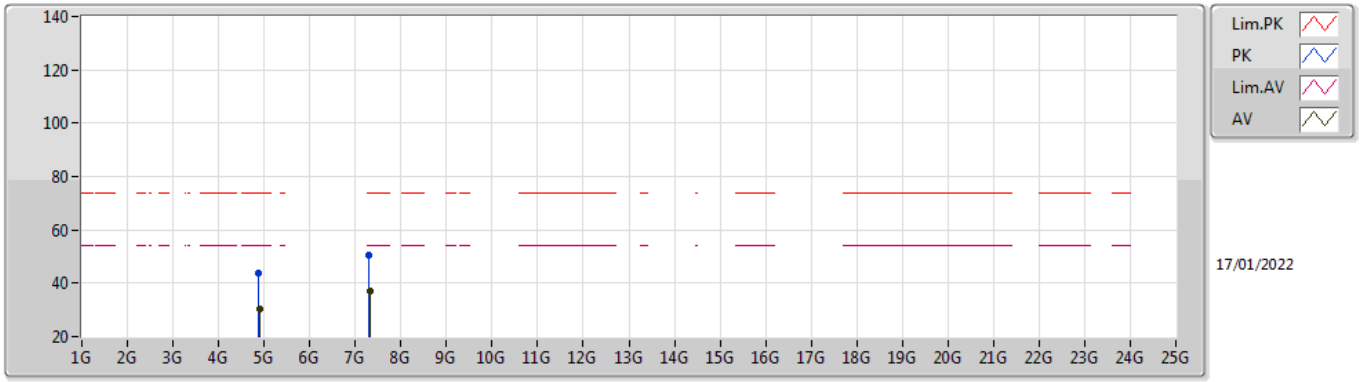


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87512G	45.20	74.00	-28.80	40.56	3	Vertical	360	1.57	-	31.05	5.60	32.01
AV	4.89072G	30.33	54.00	-23.67	25.65	3	Vertical	360	1.57	-	31.08	5.60	32.00
PK	7.32988G	51.21	74.00	-22.79	41.50	3	Vertical	14	1.66	-	36.28	6.90	33.47
AV	7.31892G	37.02	54.00	-16.98	27.27	3	Vertical	14	1.66	-	36.32	6.90	33.47

802.11ax HEW40_Nss2,(MCS0)_2TX

2437MHz_TX

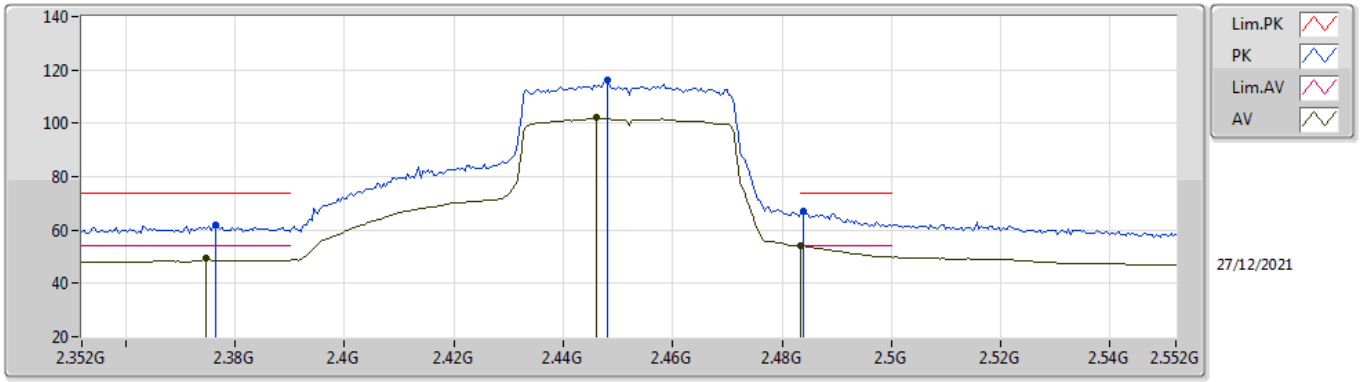


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.88272G	44.03	74.00	-29.97	39.37	3	Horizontal	325	1.80	-	31.07	5.60	32.01
AV	4.89136G	30.32	54.00	-23.68	25.64	3	Horizontal	325	1.80	-	31.08	5.60	32.00
PK	7.301G	50.53	74.00	-23.47	40.69	3	Horizontal	256	2.99	-	36.40	6.90	33.46
AV	7.323G	37.03	54.00	-16.97	27.29	3	Horizontal	256	2.99	-	36.31	6.90	33.47

802.11ax HEW40_Nss2,(MCS0)_2TX

2452MHz_TX

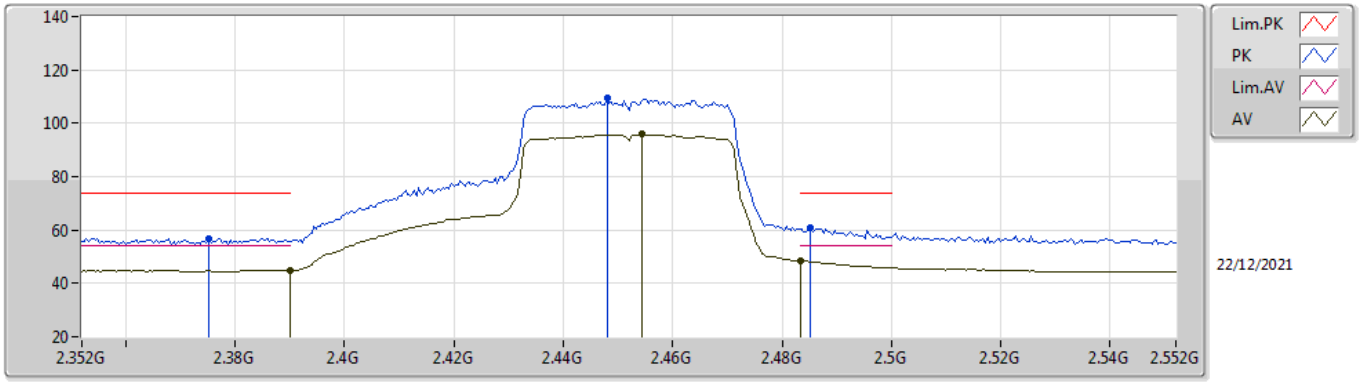


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3764G	61.84	74.00	-12.16	30.46	3	Vertical	100	1.80	-	27.59	3.79	-
AV	2.3748G	49.30	54.00	-4.70	17.91	3	Vertical	100	1.80	-	27.60	3.79	-
PK	2.448G	116.01	Inf	-Inf	84.95	3	Vertical	100	1.80	-	27.21	3.85	-
AV	2.446G	102.06	Inf	-Inf	70.99	3	Vertical	100	1.80	-	27.22	3.85	-
PK	2.484G	67.20	74.00	-6.80	36.05	3	Vertical	100	1.80	-	27.27	3.88	-
AV	2.4835G	53.96	54.00	-0.04	22.81	3	Vertical	100	1.80	-	27.27	3.88	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2452MHz_TX

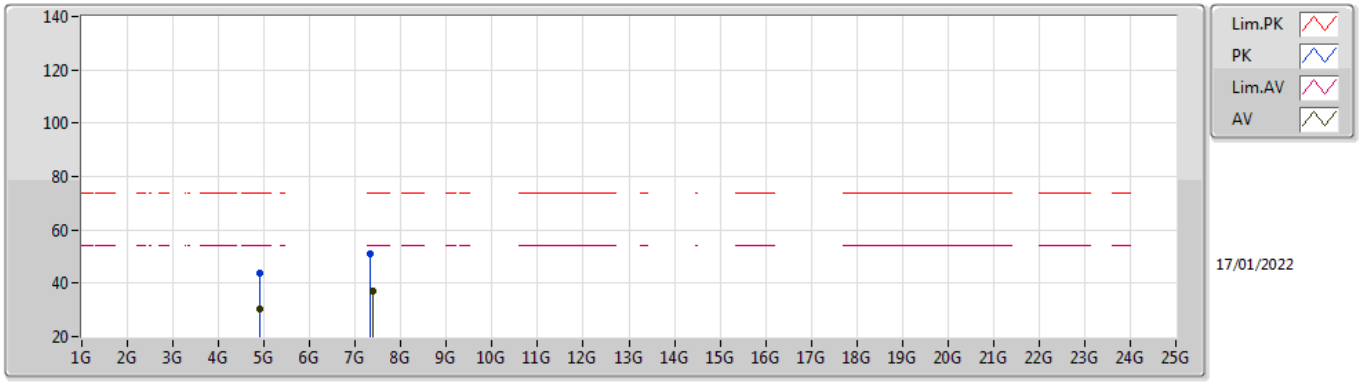


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3752G	56.96	74.00	-17.04	25.57	3	Horizontal	219	2.25	-	27.60	3.79	-
AV	2.39G	44.94	54.00	-9.06	13.67	3	Horizontal	219	2.25	-	27.48	3.79	-
PK	2.448G	109.68	Inf	-Inf	78.62	3	Horizontal	219	2.25	-	27.21	3.85	-
AV	2.4544G	95.79	Inf	-Inf	64.73	3	Horizontal	219	2.25	-	27.21	3.85	-
PK	2.4852G	60.85	74.00	-13.15	29.69	3	Horizontal	219	2.25	-	27.27	3.89	-
AV	2.4835G	48.30	54.00	-5.70	17.15	3	Horizontal	219	2.25	-	27.27	3.88	-

802.11ax HEW40_Nss2,(MCS0)_2TX

2452MHz_TX

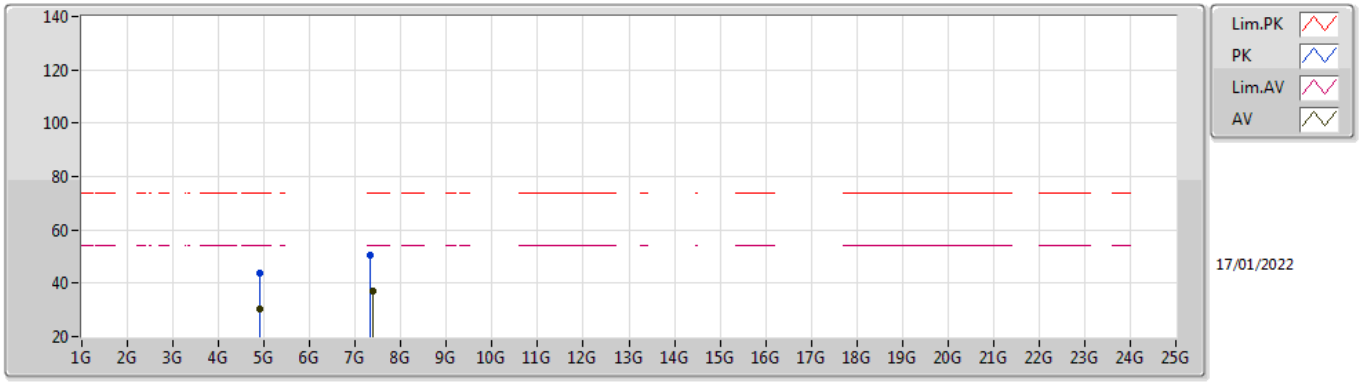


EUT Y_2TX
Setting 84
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.90592G	43.90	74.00	-30.10	39.17	3	Vertical	160	1.51	-	31.12	5.60	31.99
AV	4.88976G	30.31	54.00	-23.69	25.63	3	Vertical	160	1.51	-	31.08	5.60	32.00
PK	7.33608G	50.81	74.00	-23.19	41.13	3	Vertical	299	1.80	-	36.26	6.90	33.48
AV	7.376G	36.94	54.00	-17.06	27.44	3	Vertical	299	1.80	-	36.10	6.90	33.50

802.11ax HEW40_Nss2,(MCS0)_2TX

2452MHz_TX



EUT Y_2TX
Setting 84
06-D-S-8

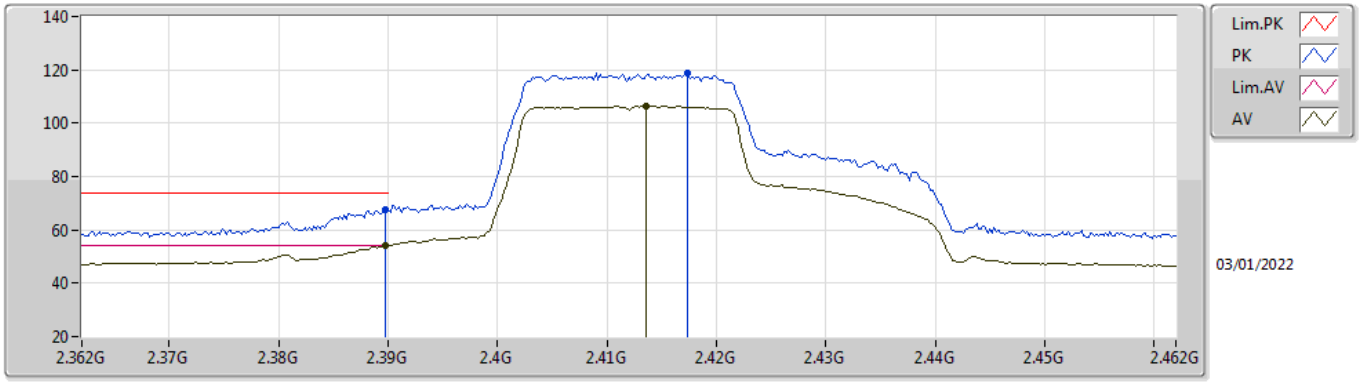
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8916G	44.02	74.00	-29.98	39.34	3	Horizontal	271	1.80	-	31.08	5.60	32.00
AV	4.89088G	30.31	54.00	-23.69	25.63	3	Horizontal	271	1.80	-	31.08	5.60	32.00
PK	7.33672G	50.61	74.00	-23.39	40.94	3	Horizontal	0	1.64	-	36.25	6.90	33.48
AV	7.37552G	36.95	54.00	-17.05	27.45	3	Horizontal	0	1.64	-	36.10	6.90	33.50

Test Mode: beamforming 2T1S mode:
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	AV	2.3898G	53.94	54.00	-0.06	3	Vertical	188	2.36	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

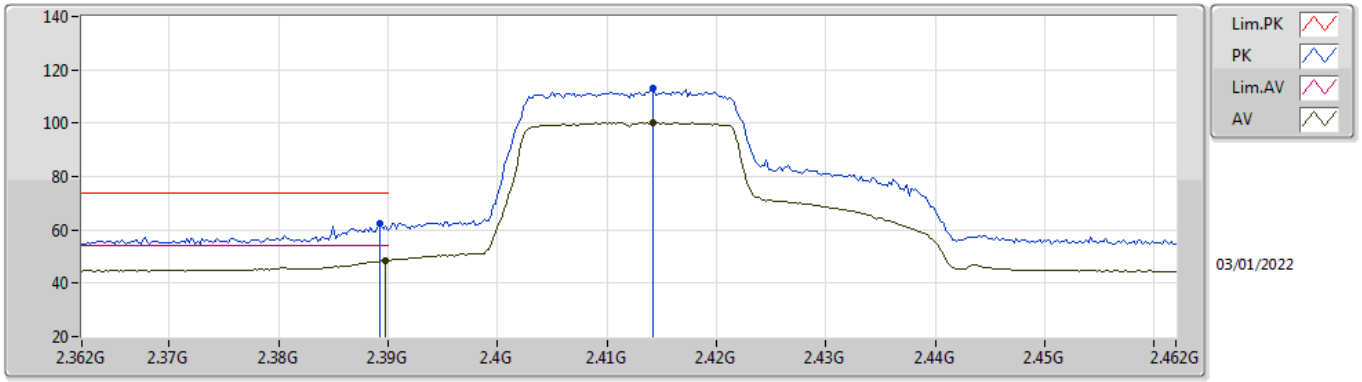


EUT Y_2TX
Setting 81
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	67.41	74.00	-6.59	36.14	3	Vertical	188	2.36	-	27.48	3.79	-
AV	2.3898G	53.94	54.00	-0.06	22.67	3	Vertical	188	2.36	-	27.48	3.79	-
PK	2.4174G	118.68	Inf	-Inf	87.53	3	Vertical	188	2.36	-	27.33	3.82	-
AV	2.4136G	106.46	Inf	-Inf	75.30	3	Vertical	188	2.36	-	27.35	3.81	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

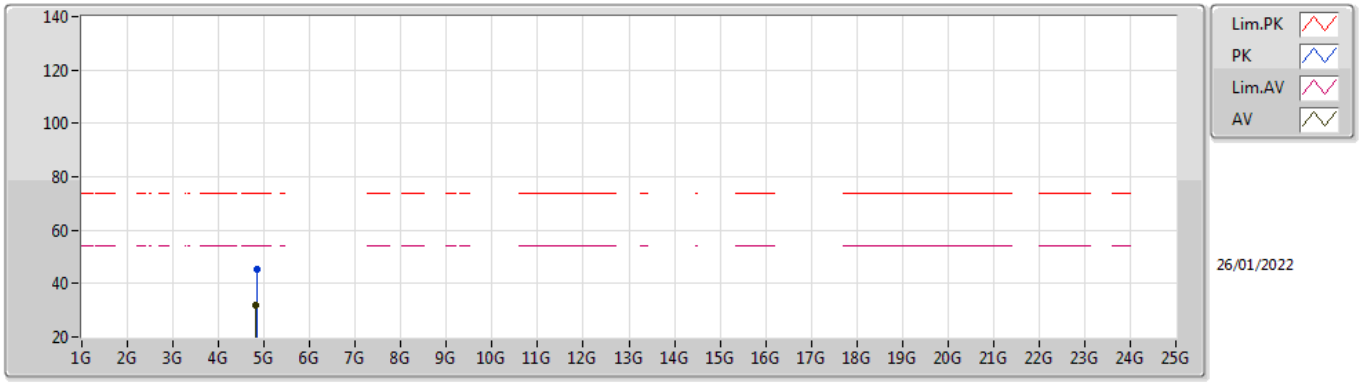


EUT Y_2TX
Setting 81
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3892G	62.51	74.00	-11.49	31.23	3	Horizontal	209.2	2.54	-	27.49	3.79	-
AV	2.3898G	48.58	54.00	-5.42	17.31	3	Horizontal	209.2	2.54	-	27.48	3.79	-
PK	2.4142G	112.91	Inf	-Inf	81.76	3	Horizontal	209.2	2.54	-	27.34	3.81	-
AV	2.4142G	100.15	Inf	-Inf	69.00	3	Horizontal	209.2	2.54	-	27.34	3.81	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

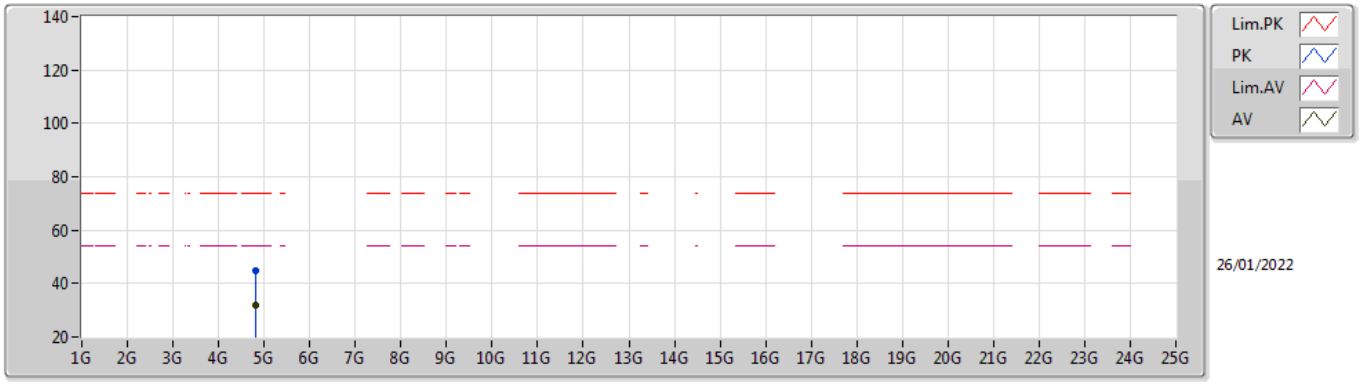


EUT Y_2TX
Setting 81
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.829G	45.51	74.00	-28.49	40.92	3	Vertical	358	1.38	-	31.04	5.60	32.05
AV	4.81922G	31.87	54.00	-22.13	27.27	3	Vertical	358	1.38	-	31.06	5.60	32.06

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

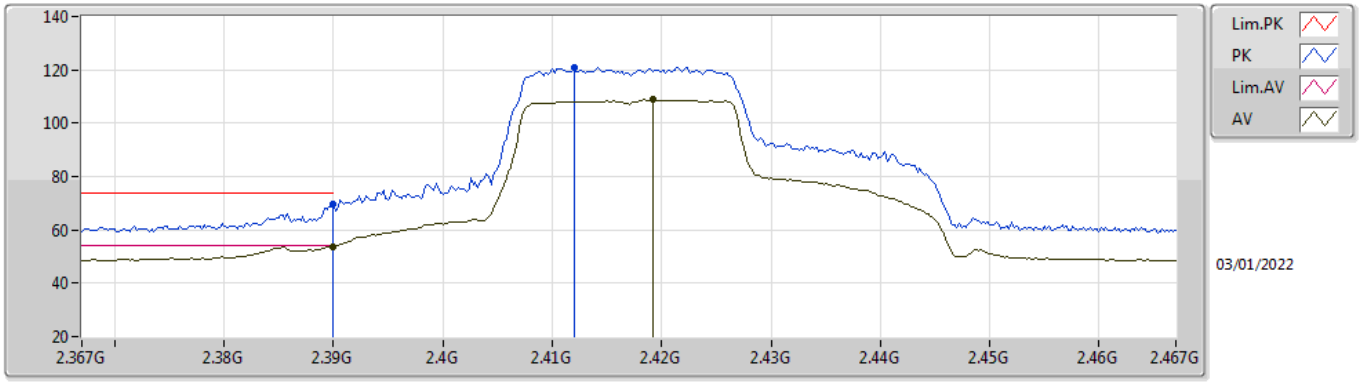


EUT Y_2TX
Setting 81
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82754G	44.86	74.00	-29.14	40.27	3	Horizontal	97	1.32	-	31.04	5.60	32.05
AV	4.81932G	31.81	54.00	-22.19	27.21	3	Horizontal	97	1.32	-	31.06	5.60	32.06

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

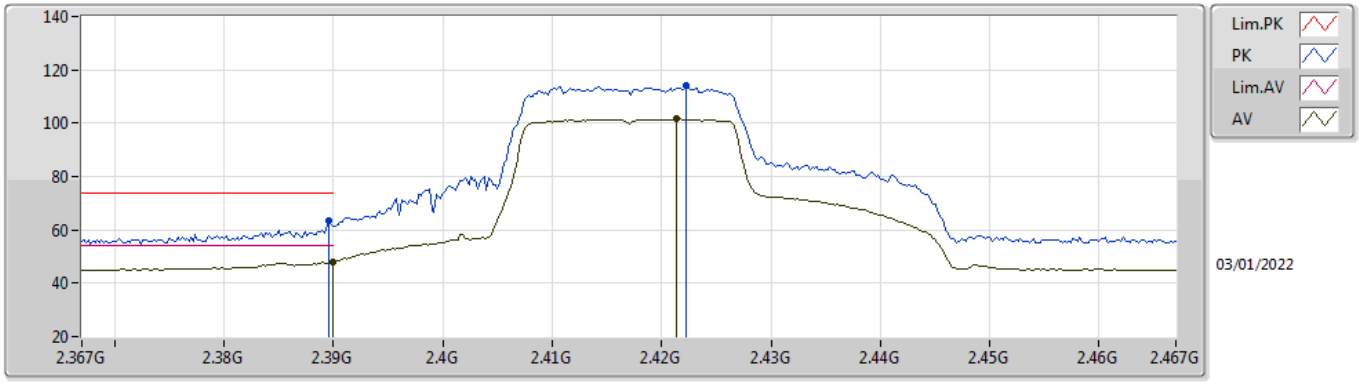


EUT Y_2TX
Setting 92
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	69.89	74.00	-4.11	38.62	3	Vertical	193.9	2.25	-	27.48	3.79	-
AV	2.39G	53.70	54.00	-0.30	22.43	3	Vertical	193.9	2.25	-	27.48	3.79	-
PK	2.412G	121.06	Inf	-Inf	89.90	3	Vertical	193.9	2.25	-	27.35	3.81	-
AV	2.4192G	108.96	Inf	-Inf	77.82	3	Vertical	193.9	2.25	-	27.32	3.82	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

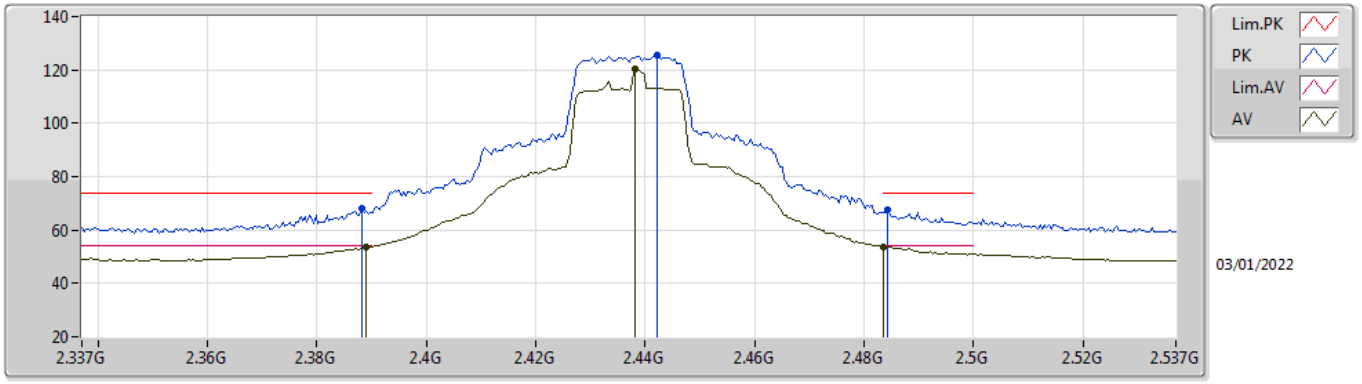


EUT Y_2TX
Setting 92
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3896G	63.33	74.00	-10.67	32.06	3	Horizontal	196.6	2.01	-	27.48	3.79	-
AV	2.39G	48.17	54.00	-5.83	16.90	3	Horizontal	196.6	2.01	-	27.48	3.79	-
PK	2.4222G	114.13	Inf	-Inf	83.00	3	Horizontal	196.6	2.01	-	27.31	3.82	-
AV	2.4214G	101.54	Inf	-Inf	70.41	3	Horizontal	196.6	2.01	-	27.31	3.82	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

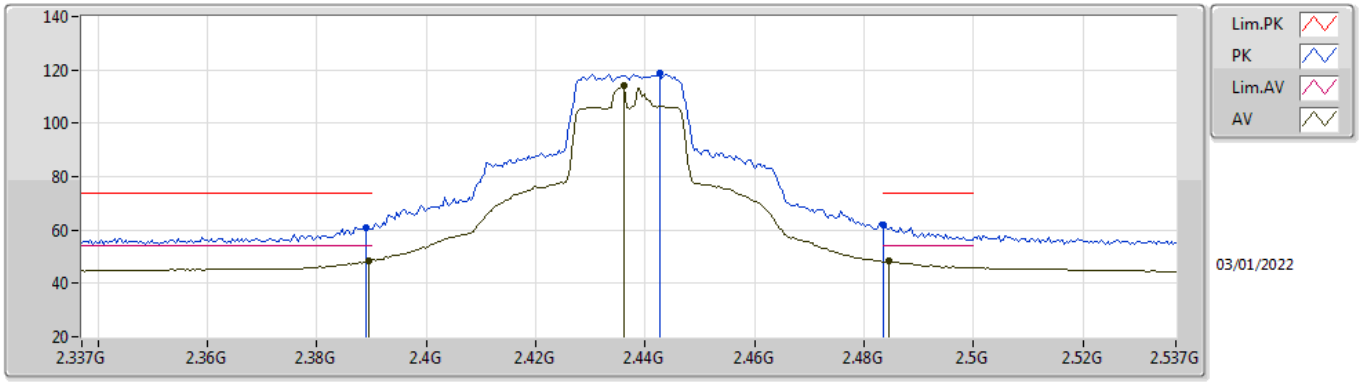


EUT Y_2TX
Setting 108
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3882G	68.21	74.00	-5.79	36.93	3	Vertical	135	1.81	-	27.49	3.79	-
AV	2.389G	53.74	54.00	-0.26	22.46	3	Vertical	135	1.81	-	27.49	3.79	-
PK	2.4422G	125.53	Inf	-Inf	94.46	3	Vertical	135	1.81	-	27.23	3.84	-
AV	2.4382G	120.23	Inf	-Inf	89.14	3	Vertical	135	1.81	-	27.25	3.84	-
PK	2.4842G	67.54	74.00	-6.46	36.39	3	Vertical	135	1.81	-	27.27	3.88	-
AV	2.4835G	53.80	54.00	-0.20	22.65	3	Vertical	135	1.81	-	27.27	3.88	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

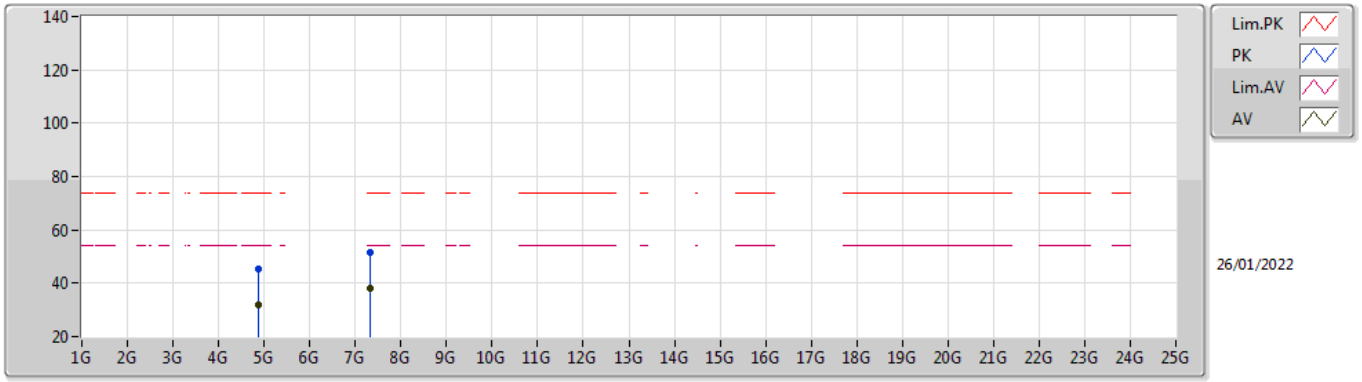


EUT Y_2TX
Setting 108
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.389G	60.85	74.00	-13.15	29.57	3	Horizontal	198	1.78	-	27.49	3.79	-
AV	2.3894G	48.58	54.00	-5.42	17.31	3	Horizontal	198	1.78	-	27.48	3.79	-
PK	2.4426G	118.62	Inf	-Inf	87.55	3	Horizontal	198	1.78	-	27.23	3.84	-
AV	2.4362G	114.24	Inf	-Inf	83.14	3	Horizontal	198	1.78	-	27.26	3.84	-
PK	2.4835G	61.76	74.00	-12.24	30.61	3	Horizontal	198	1.78	-	27.27	3.88	-
AV	2.4846G	48.25	54.00	-5.75	17.10	3	Horizontal	198	1.78	-	27.27	3.88	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

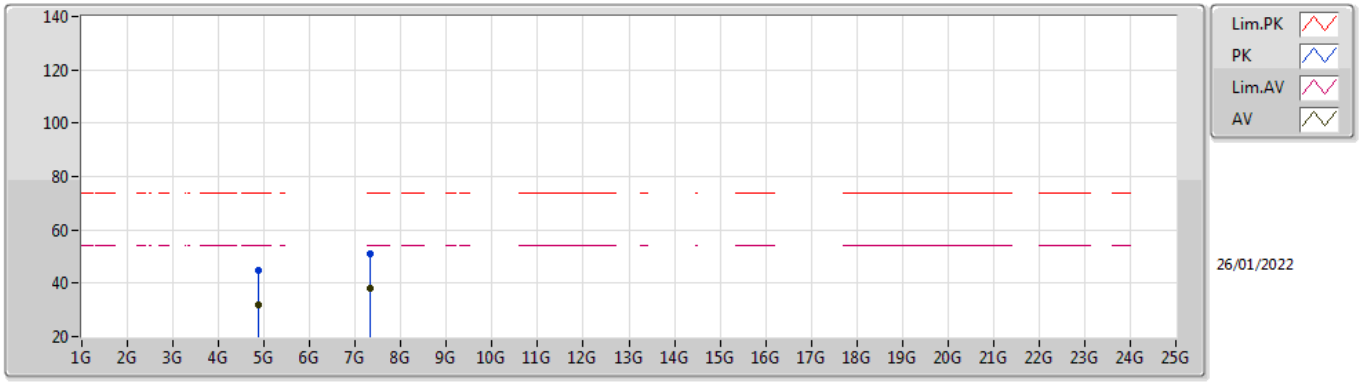


EUT Y_2TX
Setting 108
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87586G	45.14	74.00	-28.86	40.50	3	Vertical	100	1.56	-	31.05	5.60	32.01
AV	4.87472G	32.12	54.00	-21.88	27.49	3	Vertical	100	1.56	-	31.05	5.60	32.02
PK	7.31032G	51.39	74.00	-22.61	41.60	3	Vertical	76	1.64	-	36.36	6.90	33.47
AV	7.3142G	38.03	54.00	-15.97	28.26	3	Vertical	76	1.64	-	36.34	6.90	33.47

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

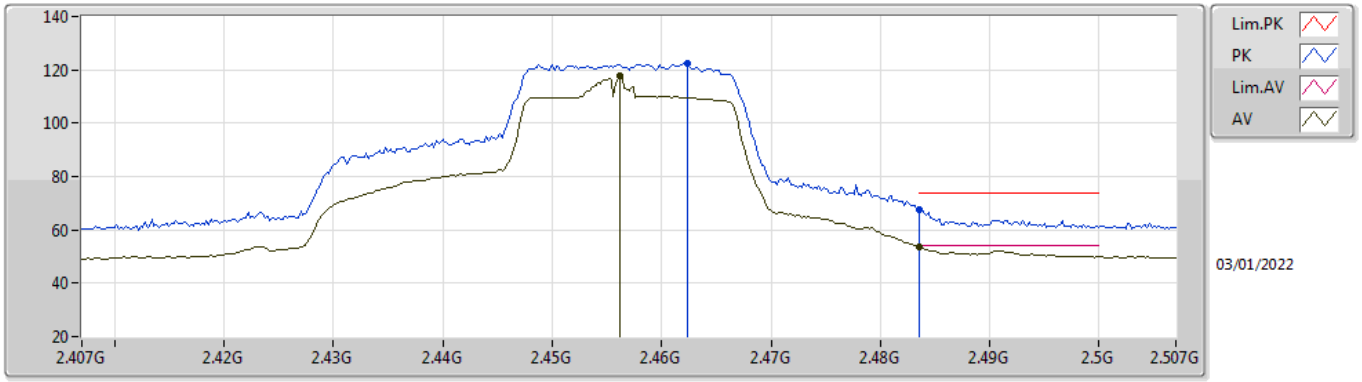


EUT Y_2TX
Setting 108
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87896G	44.86	74.00	-29.14	40.21	3	Horizontal	48	1.28	-	31.06	5.60	32.01
AV	4.87896G	31.97	54.00	-22.03	27.32	3	Horizontal	48	1.28	-	31.06	5.60	32.01
PK	7.31462G	50.95	74.00	-23.05	41.18	3	Horizontal	340	2.58	-	36.34	6.90	33.47
AV	7.31464G	37.96	54.00	-16.04	28.19	3	Horizontal	340	2.58	-	36.34	6.90	33.47

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

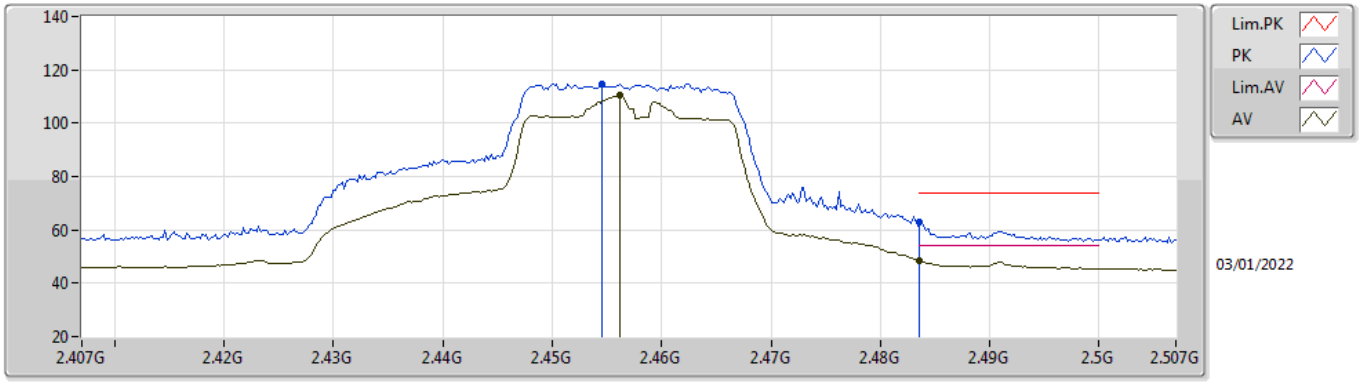


EUT Y_2TX
Setting 97
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4624G	122.20	Inf	-Inf	91.12	3	Vertical	134	1.78	-	27.22	3.86	-
AV	2.4562G	117.52	Inf	-Inf	86.45	3	Vertical	134	1.78	-	27.21	3.86	-
PK	2.4836G	67.64	74.00	-6.36	36.49	3	Vertical	134	1.78	-	27.27	3.88	-
AV	2.4835G	53.79	54.00	-0.21	22.64	3	Vertical	134	1.78	-	27.27	3.88	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

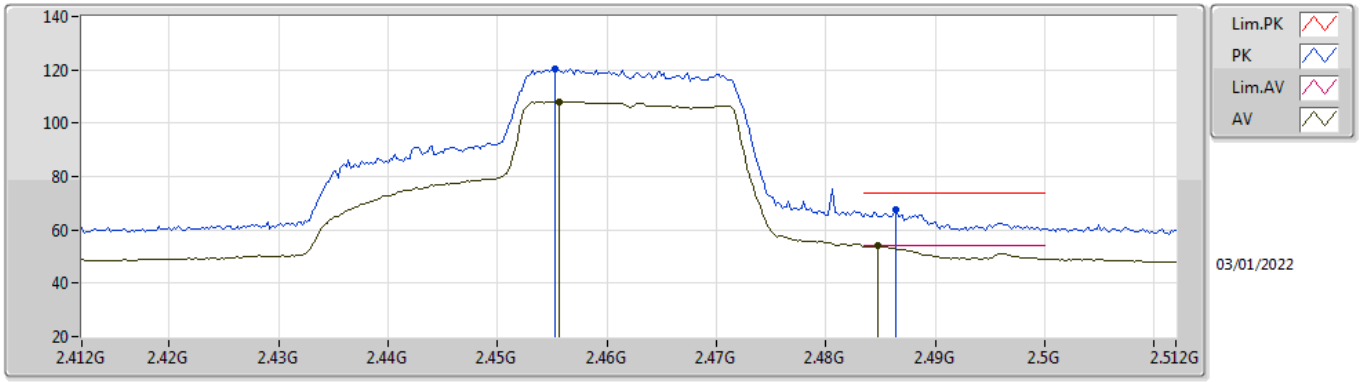


EUT Y_2TX
Setting 97
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4546G	114.85	Inf	-Inf	83.79	3	Horizontal	196.6	1.80	-	27.21	3.85	-
AV	2.4562G	110.71	Inf	-Inf	79.64	3	Horizontal	196.6	1.80	-	27.21	3.86	-
PK	2.4836G	62.71	74.00	-11.29	31.56	3	Horizontal	196.6	1.80	-	27.27	3.88	-
AV	2.4835G	48.41	54.00	-5.59	17.26	3	Horizontal	196.6	1.80	-	27.27	3.88	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

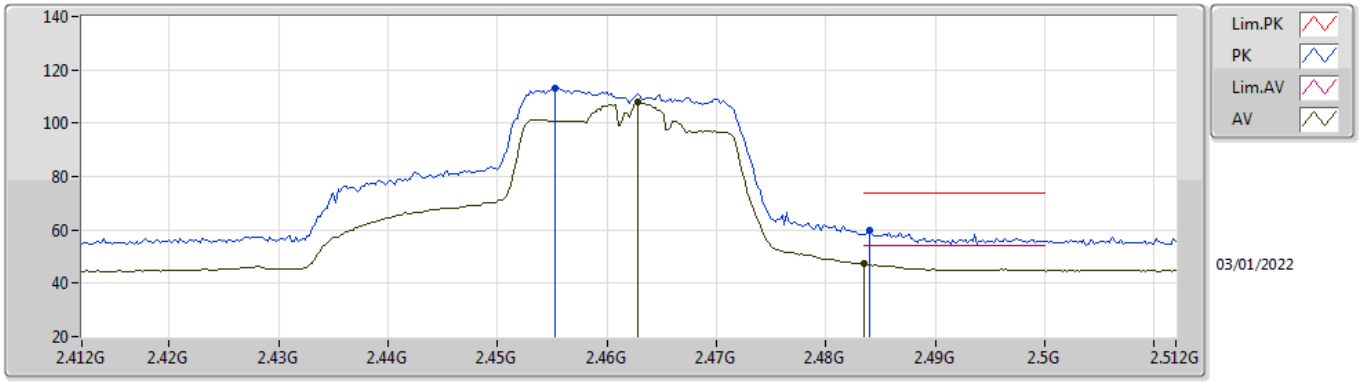


EUT Y_2TX
Setting 90
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4552G	120.39	Inf	-Inf	89.32	3	Vertical	198.6	1.85	-	27.21	3.86	-
AV	2.4556G	107.94	Inf	-Inf	76.87	3	Vertical	198.6	1.85	-	27.21	3.86	-
PK	2.4864G	67.61	74.00	-6.39	36.45	3	Vertical	198.6	1.85	-	27.27	3.89	-
AV	2.4848G	53.93	54.00	-0.07	22.78	3	Vertical	198.6	1.85	-	27.27	3.88	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

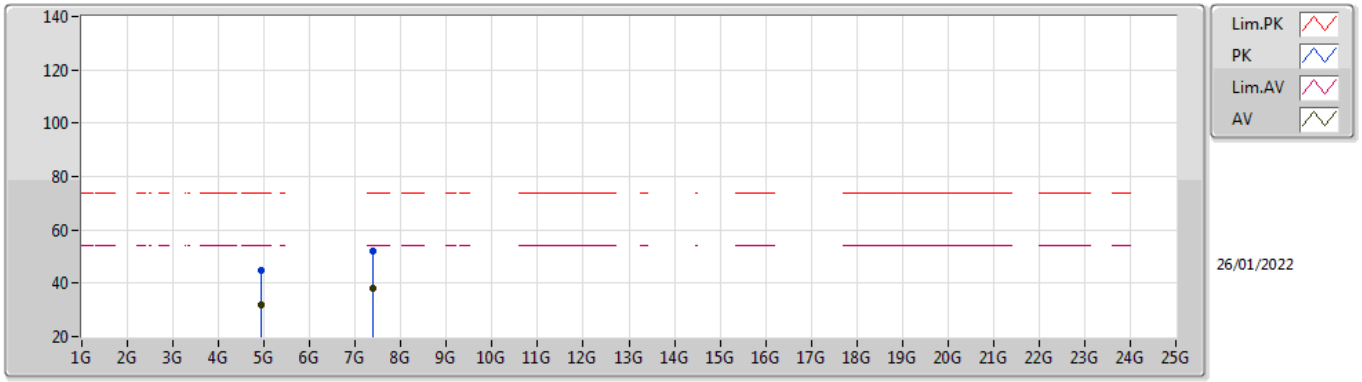


EUT Y_2TX
Setting 90
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4552G	113.16	Inf	-Inf	82.09	3	Horizontal	29	1.78	-	27.21	3.86	-
AV	2.4628G	107.80	Inf	-Inf	76.71	3	Horizontal	29	1.78	-	27.23	3.86	-
PK	2.484G	59.66	74.00	-14.34	28.51	3	Horizontal	29	1.78	-	27.27	3.88	-
AV	2.4835G	47.24	54.00	-6.76	16.09	3	Horizontal	29	1.78	-	27.27	3.88	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

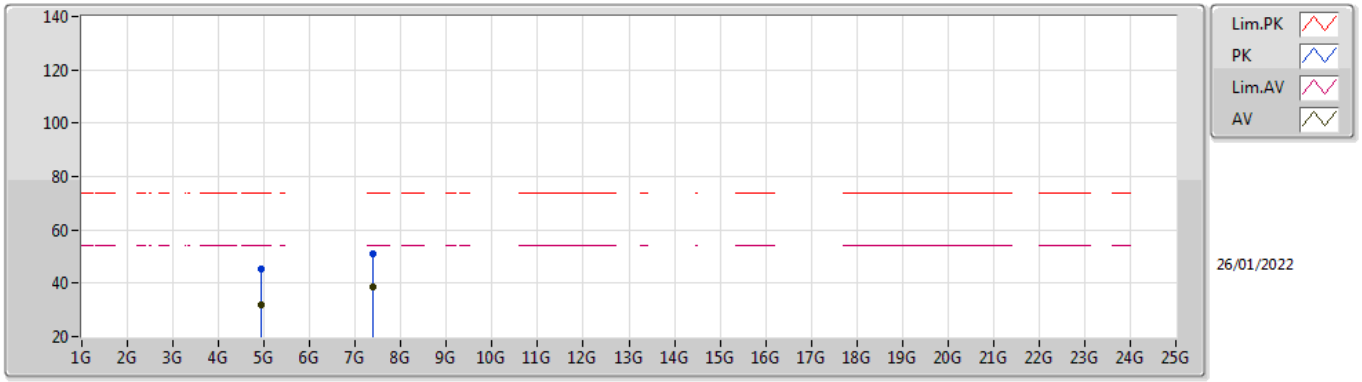


EUT Y_2TX
Setting 90
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92118G	44.85	74.00	-29.15	40.05	3	Vertical	49	1.54	-	31.18	5.60	31.98
AV	4.91942G	31.76	54.00	-22.24	26.96	3	Vertical	49	1.54	-	31.18	5.60	31.98
PK	7.38558G	52.15	74.00	-21.85	42.69	3	Vertical	130	2.50	-	36.06	6.90	33.50
AV	7.39016G	38.35	54.00	-15.65	28.92	3	Vertical	130	2.50	-	36.04	6.90	33.51

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

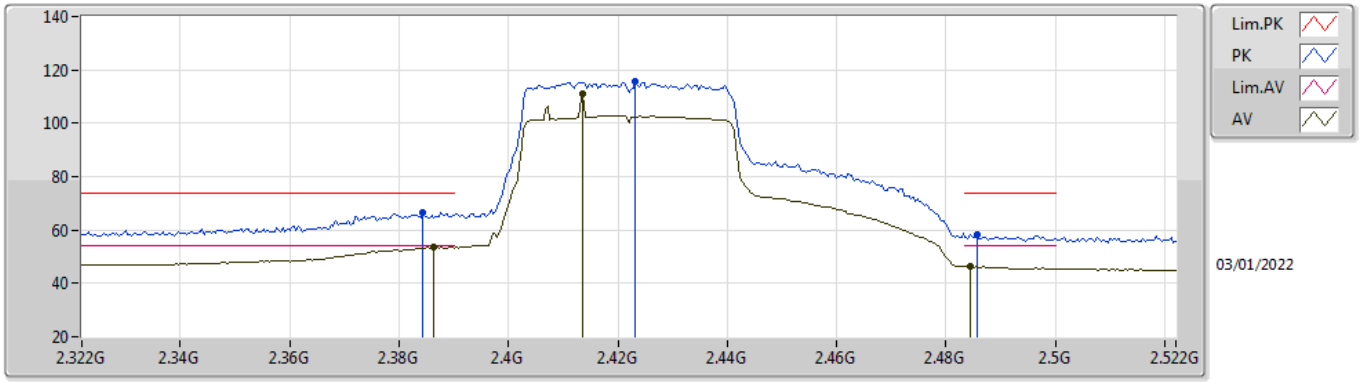


EUT Y_2TX
Setting 90
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9251G	45.14	74.00	-28.86	40.31	3	Horizontal	274	1.76	-	31.20	5.60	31.97
AV	4.9199G	31.75	54.00	-22.25	26.95	3	Horizontal	274	1.76	-	31.18	5.60	31.98
PK	7.38706G	51.18	74.00	-22.82	41.73	3	Horizontal	72	1.76	-	36.05	6.90	33.50
AV	7.38904G	38.51	54.00	-15.49	29.07	3	Horizontal	72	1.76	-	36.04	6.90	33.50

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

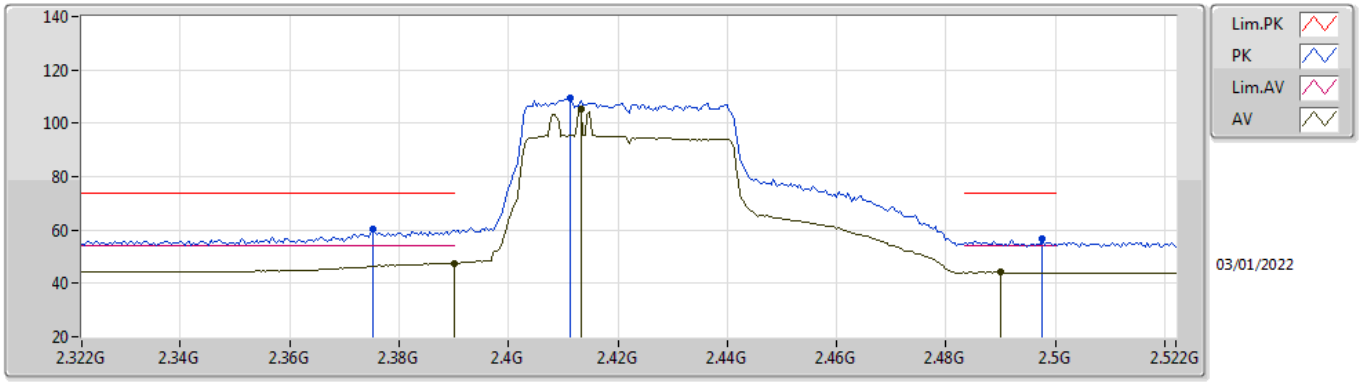


EUT Y_2TX
Setting 77
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3844G	66.67	74.00	-7.33	35.36	3	Vertical	180	2.88	-	27.52	3.79	-
AV	2.3864G	53.55	54.00	-0.45	22.25	3	Vertical	180	2.88	-	27.51	3.79	-
PK	2.4232G	115.71	Inf	-Inf	84.58	3	Vertical	180	2.88	-	27.31	3.82	-
AV	2.4136G	111.17	Inf	-Inf	80.01	3	Vertical	180	2.88	-	27.35	3.81	-
PK	2.4856G	58.20	74.00	-15.80	27.04	3	Vertical	180	2.88	-	27.27	3.89	-
AV	2.4844G	46.24	54.00	-7.76	15.09	3	Vertical	180	2.88	-	27.27	3.88	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

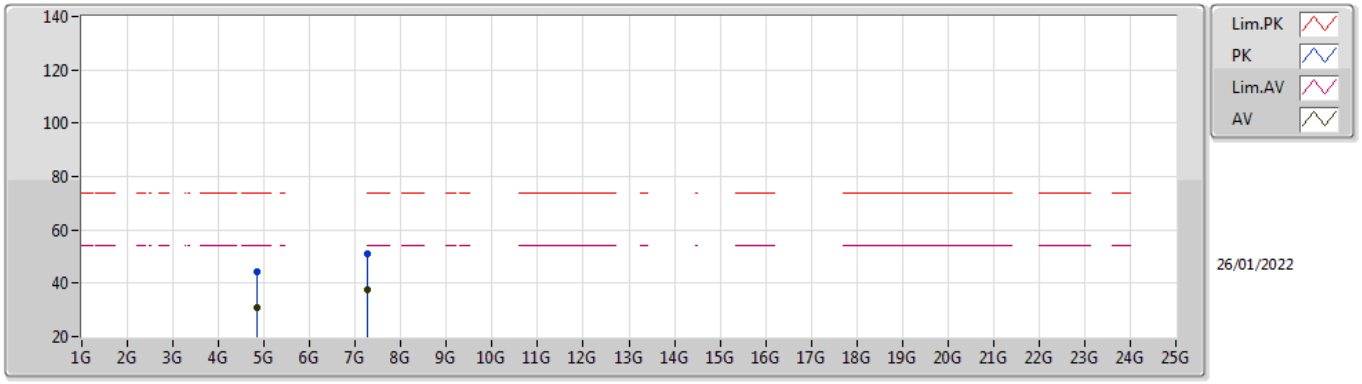


EUT Y_2TX
Setting 77
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3752G	60.37	74.00	-13.63	28.98	3	Horizontal	198	1.81	-	27.60	3.79	-
AV	2.39G	47.46	54.00	-6.54	16.19	3	Horizontal	198	1.81	-	27.48	3.79	-
PK	2.4112G	109.36	Inf	-Inf	78.19	3	Horizontal	198	1.81	-	27.36	3.81	-
AV	2.4132G	105.33	Inf	-Inf	74.17	3	Horizontal	198	1.81	-	27.35	3.81	-
PK	2.4976G	56.48	74.00	-17.52	25.28	3	Horizontal	198	1.81	-	27.30	3.90	-
AV	2.49G	44.10	54.00	-9.90	12.93	3	Horizontal	198	1.81	-	27.28	3.89	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

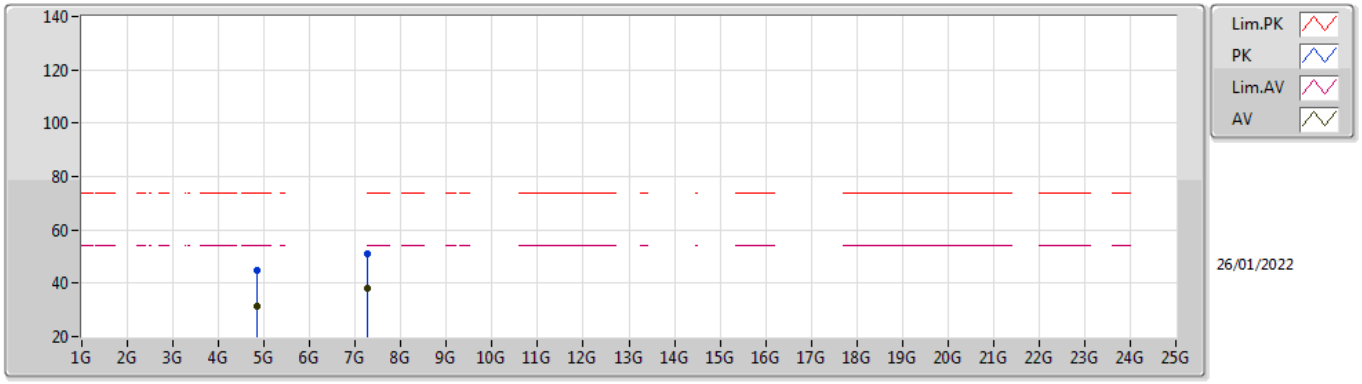


EUT Y_2TX
Setting 77
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.84552G	44.43	74.00	-29.57	39.86	3	Vertical	267	1.73	-	31.01	5.60	32.04
AV	4.84018G	31.12	54.00	-22.88	26.54	3	Vertical	267	1.73	-	31.02	5.60	32.04
PK	7.26654G	51.15	74.00	-22.85	41.36	3	Vertical	326	1.47	-	36.33	6.90	33.44
AV	7.2626G	37.70	54.00	-16.30	27.91	3	Vertical	326	1.47	-	36.33	6.90	33.44

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

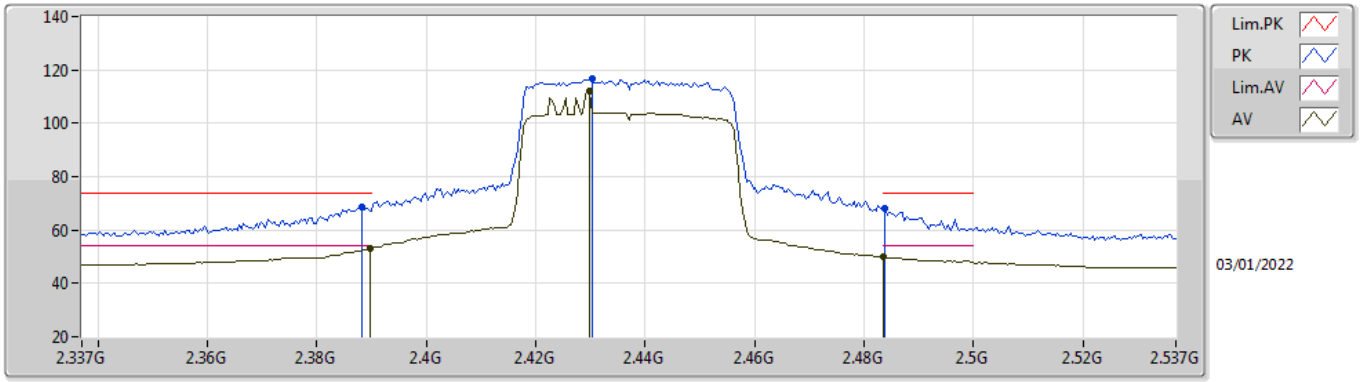


EUT Y_2TX
Setting 77
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.84896G	44.80	74.00	-29.20	40.24	3	Horizontal	319	2.04	-	31.00	5.60	32.04
AV	4.83936G	31.15	54.00	-22.85	26.57	3	Horizontal	319	2.04	-	31.02	5.60	32.04
PK	7.26514G	51.14	74.00	-22.86	41.35	3	Horizontal	126	2.51	-	36.33	6.90	33.44
AV	7.26112G	37.92	54.00	-16.08	28.14	3	Horizontal	126	2.51	-	36.32	6.90	33.44

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

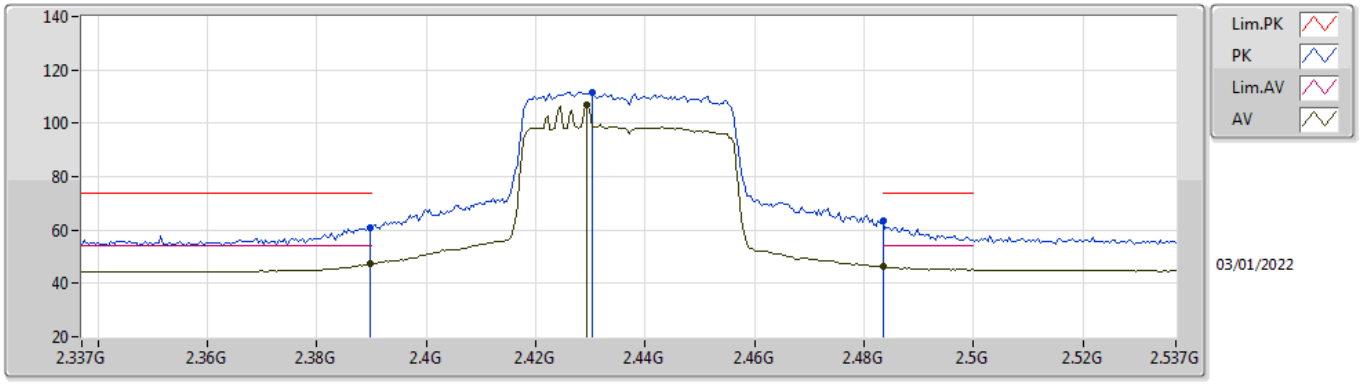


EUT Y_2TX
Setting 82
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3882G	68.39	74.00	-5.61	37.11	3	Vertical	190	1.54	-	27.49	3.79	-
AV	2.3898G	53.29	54.00	-0.71	22.02	3	Vertical	190	1.54	-	27.48	3.79	-
PK	2.4302G	116.51	Inf	-Inf	85.40	3	Vertical	190	1.54	-	27.28	3.83	-
AV	2.4298G	112.08	Inf	-Inf	80.97	3	Vertical	190	1.54	-	27.28	3.83	-
PK	2.4838G	68.01	74.00	-5.99	36.86	3	Vertical	190	1.54	-	27.27	3.88	-
AV	2.4835G	49.94	54.00	-4.06	18.79	3	Vertical	190	1.54	-	27.27	3.88	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

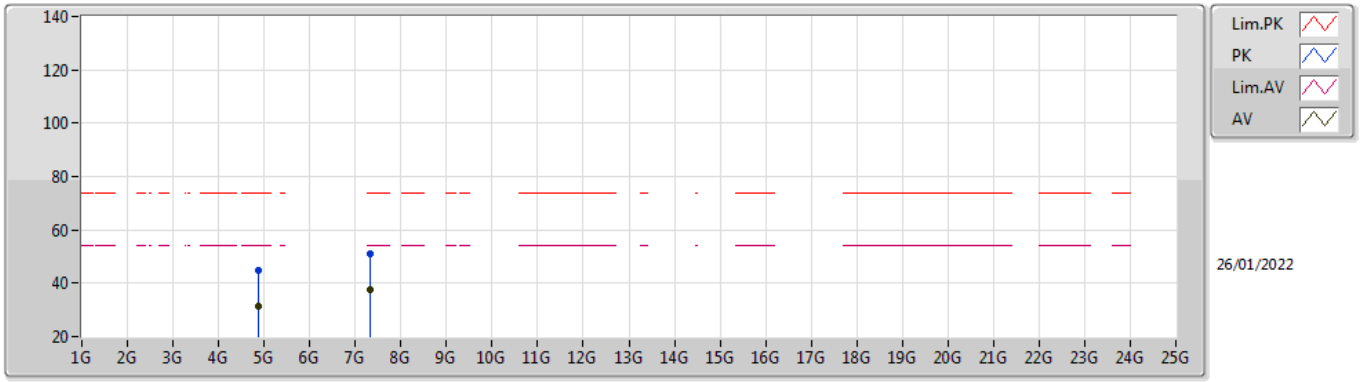


EUT Y_2TX
Setting 82
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	60.82	74.00	-13.18	29.55	3	Horizontal	210	2.52	-	27.48	3.79	-
AV	2.3898G	47.25	54.00	-6.75	15.98	3	Horizontal	210	2.52	-	27.48	3.79	-
PK	2.4302G	111.67	Inf	-Inf	80.56	3	Horizontal	210	2.52	-	27.28	3.83	-
AV	2.4294G	107.00	Inf	-Inf	75.89	3	Horizontal	210	2.52	-	27.28	3.83	-
PK	2.4835G	63.20	74.00	-10.80	32.05	3	Horizontal	210	2.52	-	27.27	3.88	-
AV	2.4835G	46.26	54.00	-7.74	15.11	3	Horizontal	210	2.52	-	27.27	3.88	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

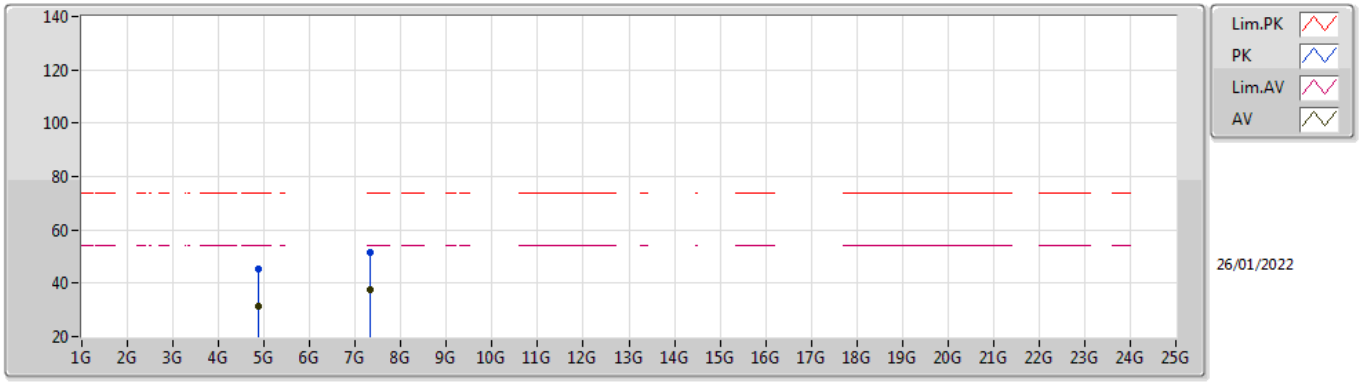


EUT Y_2TX
Setting 82
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87584G	45.08	74.00	-28.92	40.44	3	Vertical	105	1.73	-	31.05	5.60	32.01
AV	4.87204G	31.42	54.00	-22.58	26.80	3	Vertical	105	1.73	-	31.04	5.60	32.02
PK	7.3136G	51.20	74.00	-22.80	41.42	3	Vertical	262	1.14	-	36.35	6.90	33.47
AV	7.3135G	37.51	54.00	-16.49	27.73	3	Vertical	262	1.14	-	36.35	6.90	33.47

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

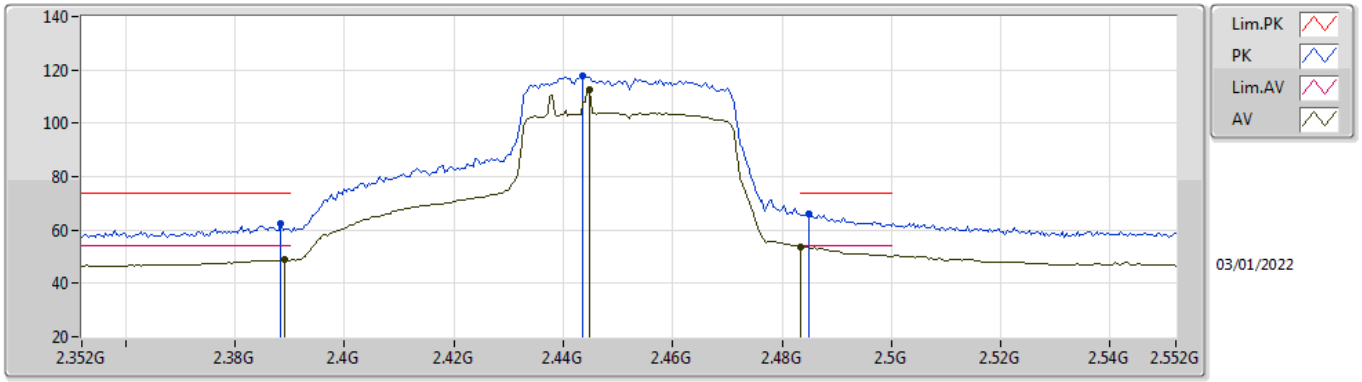


EUT Y_2TX
Setting 82
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8723G	45.46	74.00	-28.54	40.84	3	Horizontal	41	1.34	-	31.04	5.60	32.02
AV	4.87256G	31.52	54.00	-22.48	26.89	3	Horizontal	41	1.34	-	31.05	5.60	32.02
PK	7.31346G	51.32	74.00	-22.68	41.54	3	Horizontal	141	2.31	-	36.35	6.90	33.47
AV	7.31422G	37.52	54.00	-16.48	27.75	3	Horizontal	141	2.31	-	36.34	6.90	33.47

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

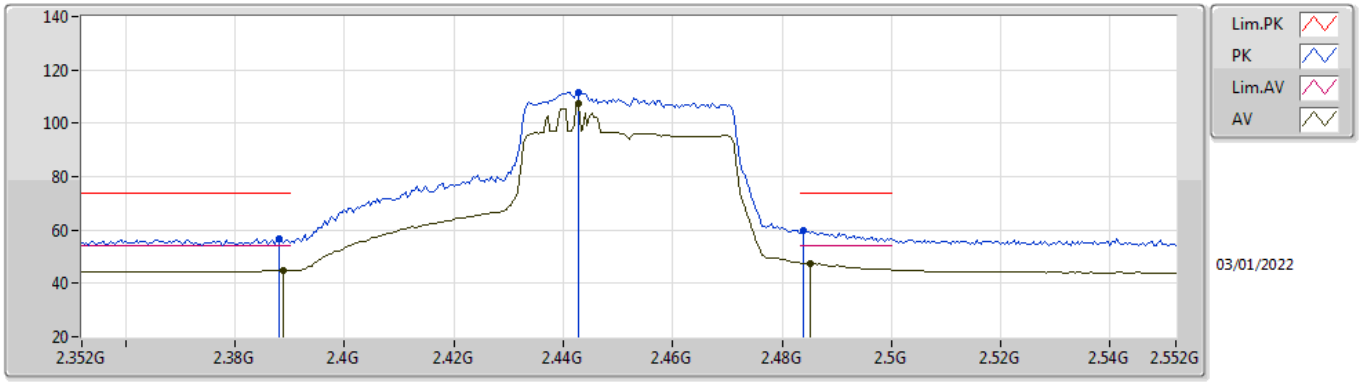


EUT Y_2TX
Setting 82
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3884G	62.41	74.00	-11.59	31.13	3	Vertical	136	1.79	-	27.49	3.79	-
AV	2.3892G	48.80	54.00	-5.20	17.52	3	Vertical	136	1.79	-	27.49	3.79	-
PK	2.4436G	117.69	Inf	-Inf	86.62	3	Vertical	136	1.79	-	27.23	3.84	-
AV	2.4448G	112.71	Inf	-Inf	81.65	3	Vertical	136	1.79	-	27.22	3.84	-
PK	2.4848G	65.91	74.00	-8.09	34.76	3	Vertical	136	1.79	-	27.27	3.88	-
AV	2.4835G	53.83	54.00	-0.17	22.68	3	Vertical	136	1.79	-	27.27	3.88	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

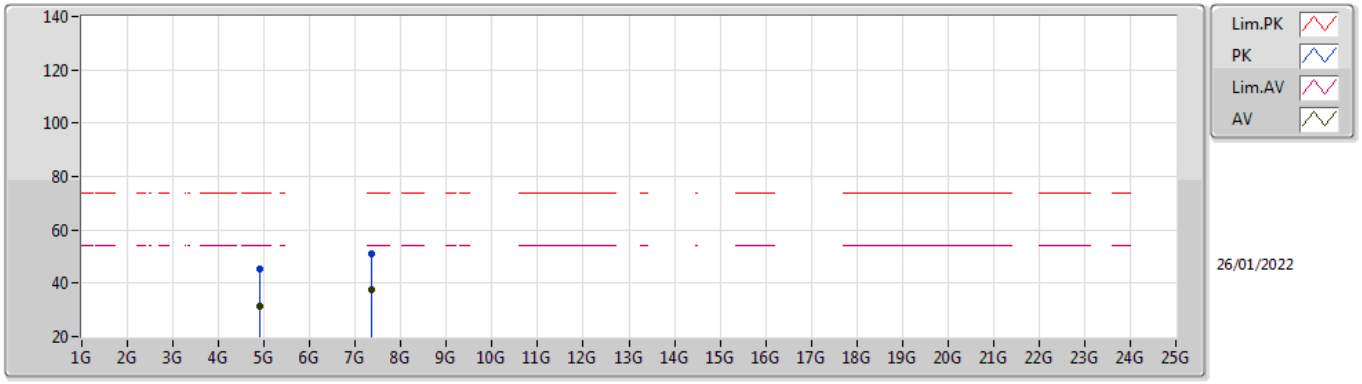


EUT Y_2TX
Setting 82
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.388G	56.57	74.00	-17.43	25.28	3	Horizontal	198	1.79	-	27.50	3.79	-
AV	2.3888G	44.77	54.00	-9.23	13.49	3	Horizontal	198	1.79	-	27.49	3.79	-
PK	2.4428G	111.56	Inf	-Inf	80.49	3	Horizontal	198	1.79	-	27.23	3.84	-
AV	2.4428G	107.31	Inf	-Inf	76.24	3	Horizontal	198	1.79	-	27.23	3.84	-
PK	2.484G	60.03	74.00	-13.97	28.88	3	Horizontal	198	1.79	-	27.27	3.88	-
AV	2.4852G	47.56	54.00	-6.44	16.40	3	Horizontal	198	1.79	-	27.27	3.89	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

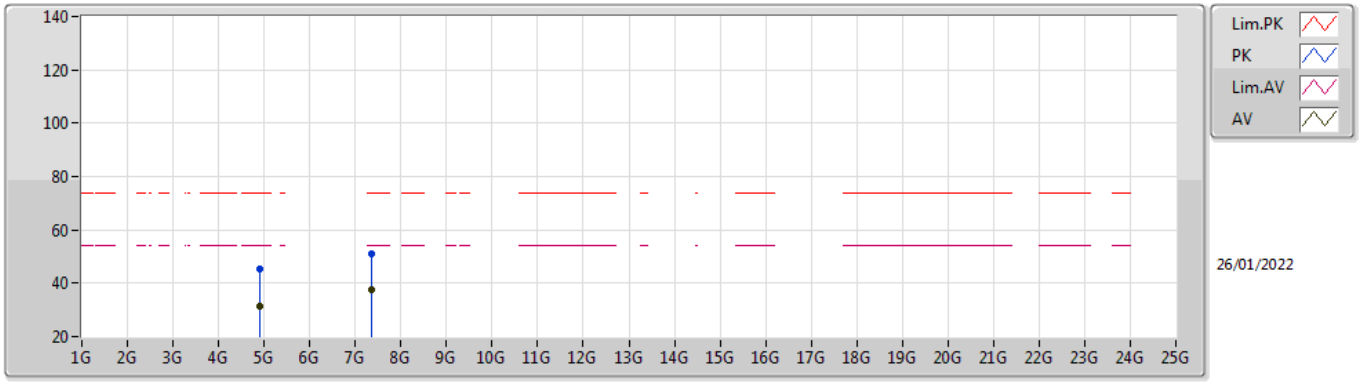


EUT Y_2TX
Setting 82
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.90382G	45.33	74.00	-28.67	40.60	3	Vertical	138	1.08	-	31.12	5.60	31.99
AV	4.90014G	31.36	54.00	-22.64	26.65	3	Vertical	138	1.08	-	31.10	5.60	31.99
PK	7.35296G	51.02	74.00	-22.98	41.42	3	Vertical	3	2.73	-	36.19	6.90	33.49
AV	7.35974G	37.46	54.00	-16.54	27.89	3	Vertical	3	2.73	-	36.16	6.90	33.49

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX



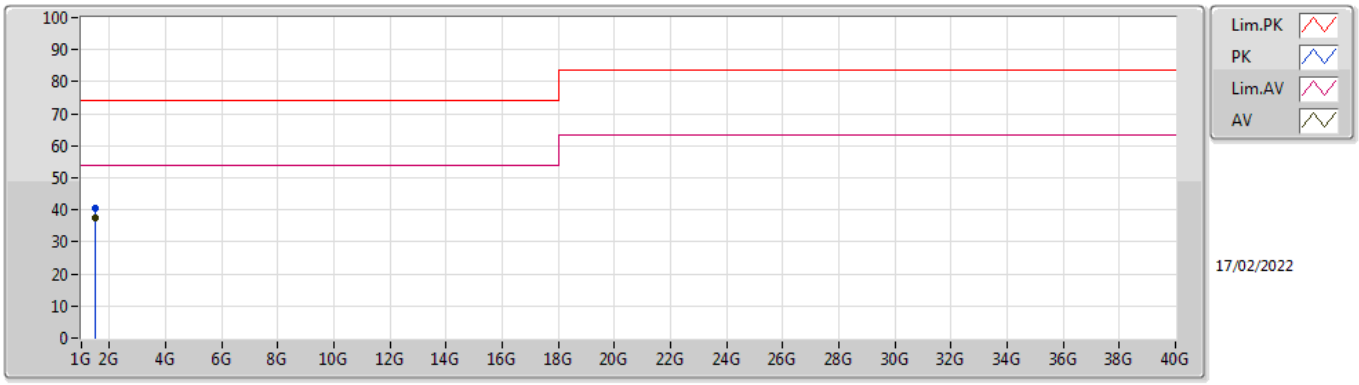
EUT Y_2TX
Setting 82
06-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.90148G	45.09	74.00	-28.91	40.37	3	Horizontal	89	1.85	-	31.11	5.60	31.99
AV	4.89964G	31.33	54.00	-22.67	26.62	3	Horizontal	89	1.85	-	31.10	5.60	31.99
PK	7.35242G	50.81	74.00	-23.19	41.21	3	Horizontal	194	2.45	-	36.19	6.90	33.49
AV	7.35288G	37.53	54.00	-16.47	27.93	3	Horizontal	194	2.45	-	36.19	6.90	33.49

Summary

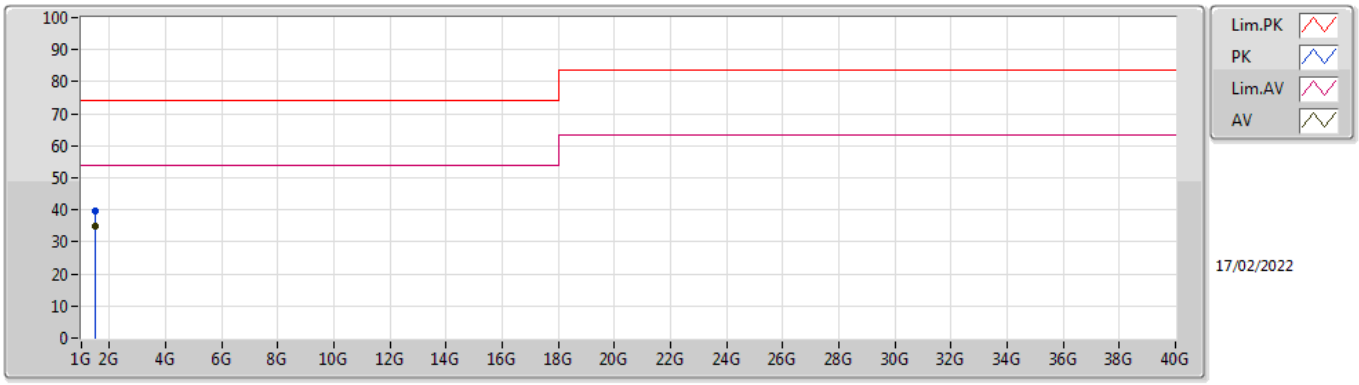
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.50001G	37.42	54.00	-16.58	Vertical

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.50010G	40.72	74.00	-33.28	-8.23	3	Vertical	141	1.02	-	48.95	25.40	3.80	37.43
AV	1.50001G	37.42	54.00	-16.58	-8.23	3	Vertical	141	1.02	"Worst"	45.65	25.40	3.80	37.43

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.50111G	39.45	74.00	-34.55	-8.23	3	Horizontal	150	1.90	-	47.68	25.40	3.80	37.43
AV	1.50019G	34.82	54.00	-19.18	-8.23	3	Horizontal	150	1.90	"Worst"	43.05	25.40	3.80	37.43