



# RADIO TEST REPORT

**FCC ID** : Z3WAIR4981  
**Equipment** : AT&T ALL Fi Booster  
**Brand Name** : Airties  
**Model Name** : Air4981-41  
**Applicant** : AirTies Wireless Networks  
Sehit Mehmet Mikdat Uluunlu Sokagi No:23  
Esentepe, Sisli İstanbul, 34394 Turkey  
**Manufacturer** : AirTies Wireless Networks  
Sehit Mehmet Mikdat Uluunlu Sokagi No:23  
Esentepe, Sisli İstanbul, 34394 Turkey  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Jul. 21, 2022, and testing was started from Jul. 26, 2022 and completed on Sep. 19, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

**Sporton International Inc. Hsinchu Laboratory**

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



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### Summary of Test Result

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

**Declaration of Conformity:**

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

**Comments and Explanations:**

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

**Reviewed by: Sam Chen**

**Report Producer: Sandy Chuang**



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

**Note:**

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



**1.1.2 Antenna Information**

Ant.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz	6GHz					
1	1	1	-	Galtronics	A00	Off-Board Internal Dipole	I-PEX MHF (u.FL)	Note 1
2	2	2	-	Galtronics	A11	Off-Board Internal Dipole	I-PEX MHF (u.FL)	
3	-	-	1	Galtronics	A0X	Off-Board Internal Dipole	I-PEX MHF (u.FL)	
4	-	-	2	Galtronics	A1X	Off-Board Internal Dipole	I-PEX MHF (u.FL)	
5	-	-	3	Galtronics	A2X	Off-Board Internal Dipole	I-PEX MHF (u.FL)	
6	-	-	4	Galtronics	A3X	Off-Board Internal Dipole	I-PEX MHF (u.FL)	

Note 1:

Ant.	Antenna Gain (dBi)								
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz			
		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8
1	5.41	5.06	4.26	5.01	4.76	-	-	-	-
2	2.96	2.91	3.33	3.97	3.8	-	-	-	-
3	-	-	-	-	-	4.06	3.64	4.3	3.51
4	-	-	-	-	-	1.65	1.44	2.31	2.08
5	-	-	-	-	-	2.58	1.31	2.03	2.7
6	-	-	-	-	-	2.51	2.82	3.53	3.79

	Directional Gain (dBi)				
	WLAN 2.4GHz	WLAN 5GHz			
		UNII 1	UNII 2A	UNII 2C	UNII 3
2T1S	5.46	5.11	4.47	5.29	4.79
2T2S	5.41	5.06	4.26	5.01	4.76



	Directional Gain (dBi)			
	WLAN 6GHz			
	UNII 5	UNII 6	UNII 7	UNII 8
4T1S	4.31	3.97	4.33	3.94
4T2S	4.06	3.64	4.30	3.79
4T4S	4.06	3.64	4.30	3.79

Note 2: The EUT has six antennas.

Note 3: The above information (excepting antenna gain) was declared by manufacturer.

Note 4: Maximum Directional Gain following KDB662911 D03.

Note 5: The antenna 3~6 were not enabled, because the EUT doesn't enable the 6GHz band at this time.

**For 2.4GHz:**

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

**For 5GHz UNII 1~3:**

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

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

Port 1 and Port 2 could transmit/receive simultaneously.



### 1.1.3 Mode Test Duty Cycle

<For non beamforming mode>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.957	0.19	12.424m	100
802.11g	0.947	0.24	2.066m	1k

<For beamforming mode>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20-BF	0.944	0.25	2.925m	1k
802.11ax HEW40-BF	0.96	0.18	4.353m	300

Note:

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

### 1.1.4 EUT Operational Condition

<b>EUT Power Type</b>	From Power Adapter			
<b>Beamforming Function</b>	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz UNII 1~UNII 3.			
<b>Function</b>	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
<b>Test Software Version</b>	accessMTool(3.2.1.3)			

Note: The above information was declared by manufacturer.

### 1.1.5 Table for EUT supports function

Function	Supports type	Support Band
AP Router	Master	2.4GHz / 5GHz
Mesh	Master	5GHz

Note: The AP Router was selected to test.





### 1.2 Applicable Standards

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

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

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

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

### 1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Jay Lo	24.1-24.6 / 62-69	Aug. 02, 2022~ Sep. 19, 2022
Radiated below 1GHz	03CH05-CB	Simmon Cheng	24.6~25.5 / 63~68	Aug. 23, 2022
Radiated above 1GHz (For Co-location)	03CH05-CB	Eason Chen	24.9~26.4 / 62~65	Jul. 26, 2022~Sep. 13, 2022
Radiated above 1GHz (For Others)	03CH01-CB	Eason Chen	23.7~24.8 / 67~68	Jul. 26, 2022~Sep. 13, 2022
	03CH04CB	Eason Chen	24.6~25.7 / 60~63	Jul. 26, 2022~Sep. 13, 2022
AC Conduction	CO01-CB	Dean Chang	23~24 / 56~57	Aug. 26, 2022



## 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

<For non beamforming mode>

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	90
2437MHz	82
2462MHz	82
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	65
2417MHz	80
2437MHz	95
2457MHz	81
2462MHz	66

<For beamforming mode>

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	63
2417MHz	76
2437MHz	82
2457MHz	74
2462MHz	74
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	59
2427MHz	65
2437MHz	73
2447MHz	72
2452MHz	56

Note:

- ♦ Evaluated HEW20/HEW40 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.
- ♦ The EUT supports non-beamforming and beamforming modes, after evaluating, the beamforming mode has been selected to test.



## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
<b>Operating Mode</b>	Normal Link
1	EUT (AP Router) + Adapter

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

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Emissions in Restricted Frequency Bands
<b>Test Condition</b>	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.
<b>Operating Mode &lt; 1GHz</b>	Normal Link
1	EUT in X axis (AP Router) + Adapter
2	EUT in Y axis (AP Router) + Adapter
3	EUT in Z axis (AP Router) + Adapter
For operating mode 1 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at X axis. So the measurement will follow this same test configuration.
1	EUT in X axis



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

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
<b>Operating Mode</b>	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA211916-02 for Co-location RF Exposure Evaluation.	

### 2.3 EUT Operation during Test

For CTX Mode:

**<non-beamforming mode>**

The EUT was programmed to be in continuously transmitting mode.

**<beamforming mode>**

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

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

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DoS.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by WLAN module 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
Adapter	AT&T (mfg. by DELTA)	EPS24R0-16	INPUT: 120V~0.725A Max 60Hz Output: 12V, 2.0A 24W

### 2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN PC	DELL	T3400	N/A
B	2.5G WAN PC	DELL	T3400	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E4300	N/A
B	2.4G NB	DELL	E4300	N/A
C	5G NB	DELL	E4300	N/A
D	2.5G WAN PC	DELL	T3400	N/A

For Radiated (above 1GHz):

<For non beamforming mode>

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

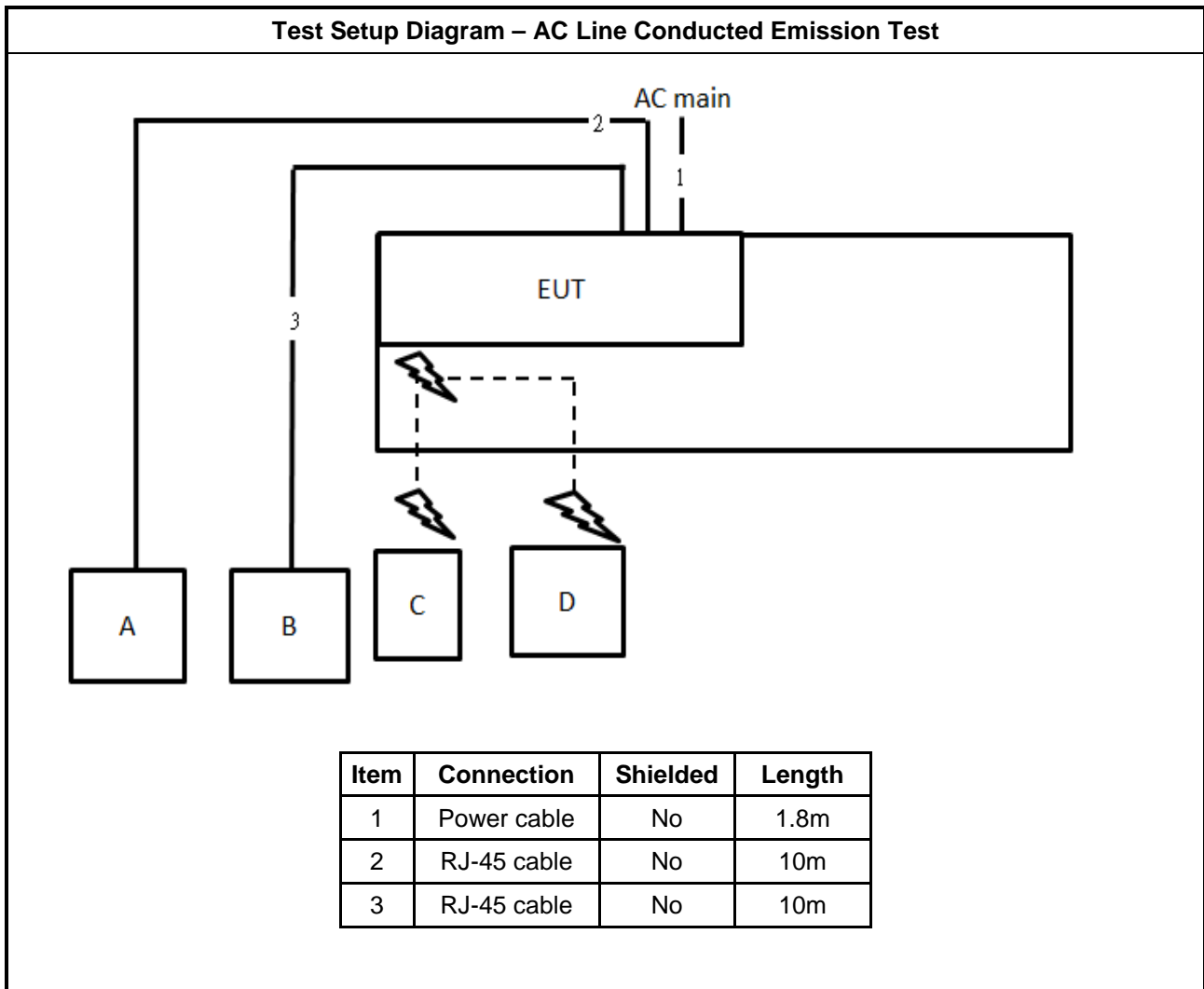
<For beamforming mode>

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	WLAN module	Intel	AX210NGW	PD9AX210NG

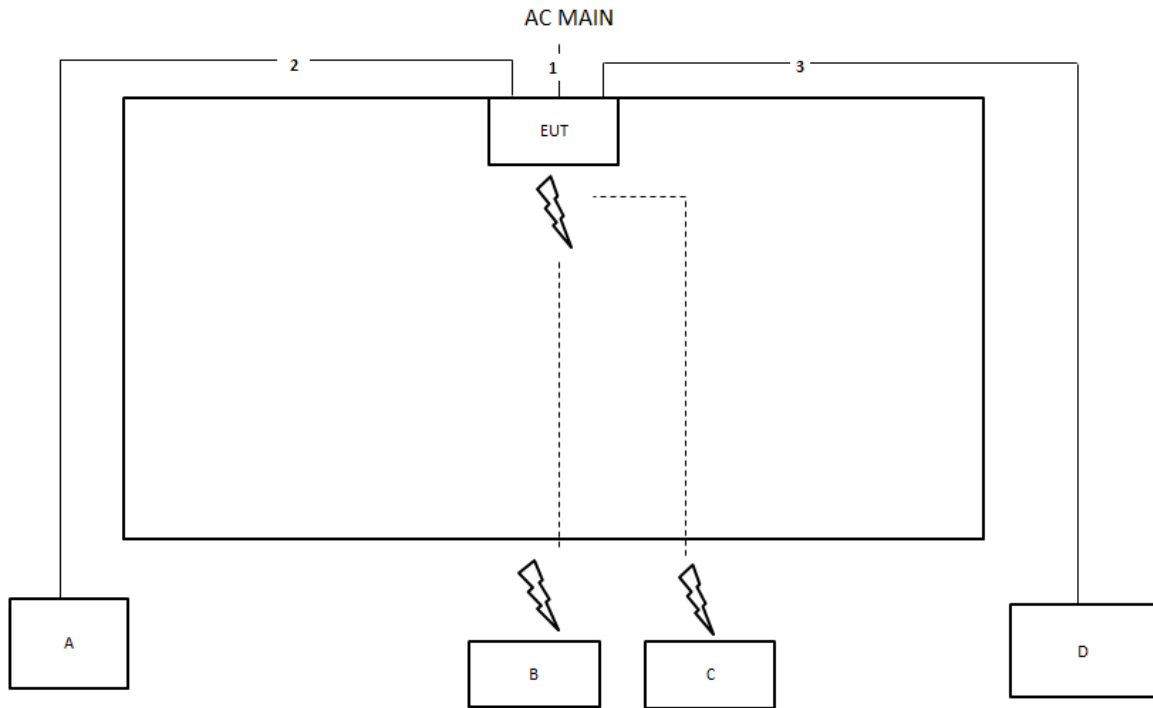
For RF Conducted:

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

## 2.6 Test Setup Diagram

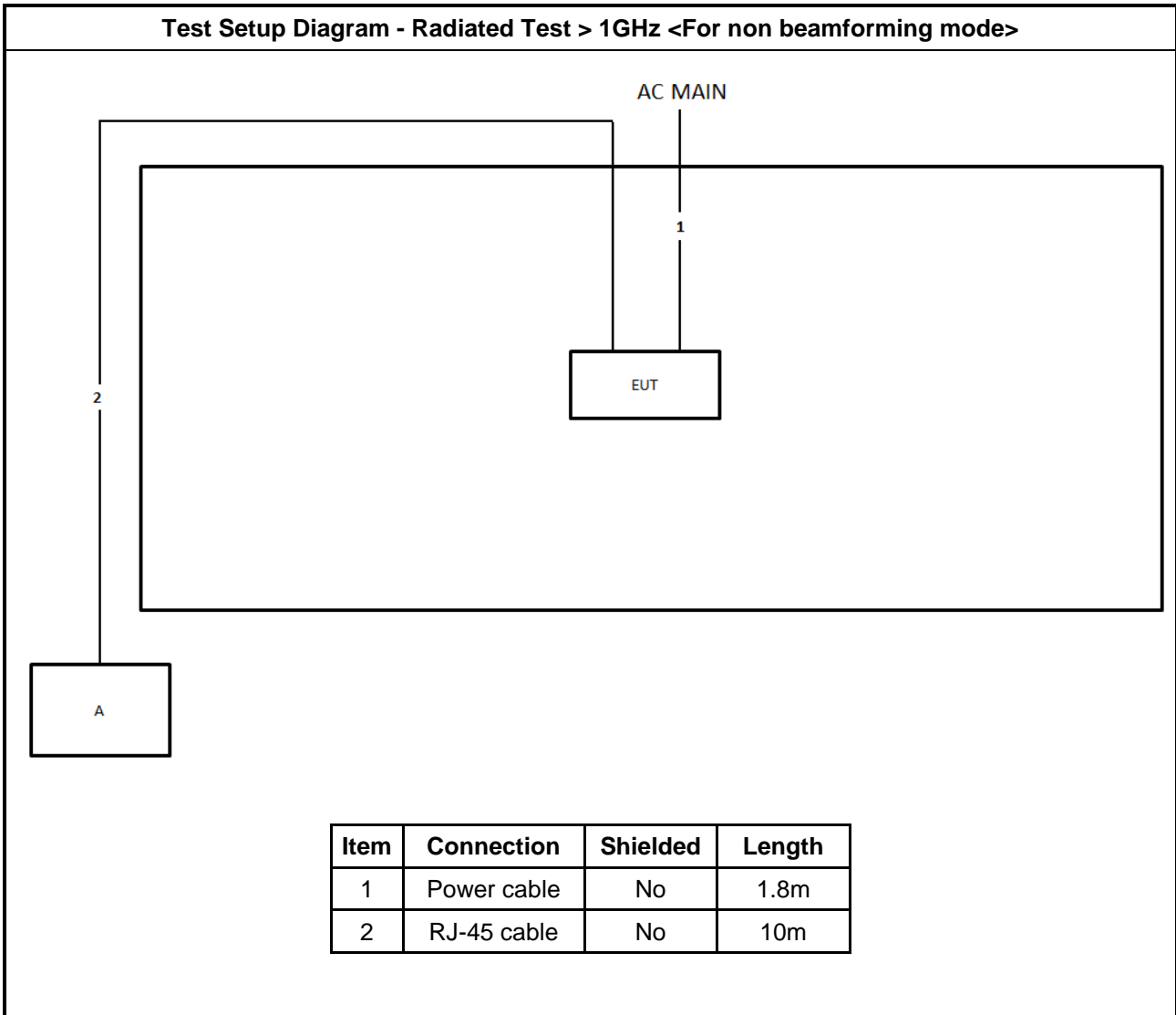


**Test Setup Diagram - Radiated Test < 1GHz**

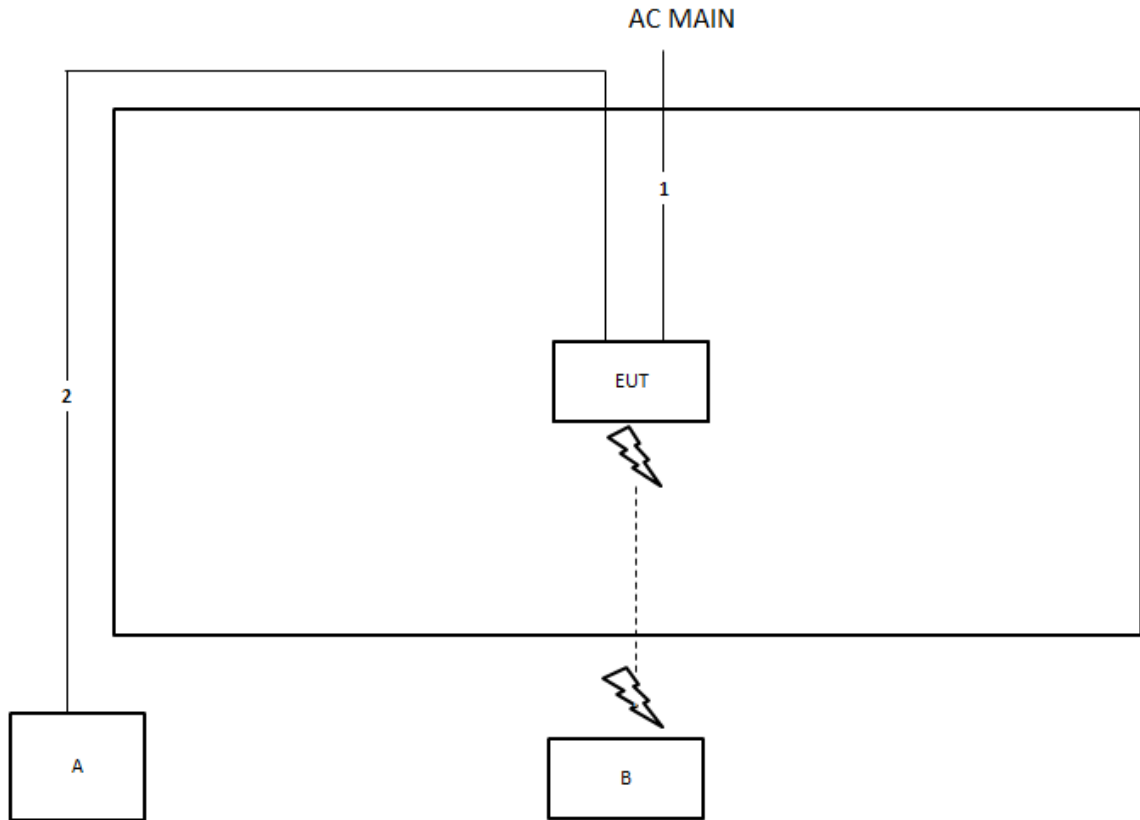


Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	10m





**Test Setup Diagram - Radiated Test > 1GHz <For beamforming mode>**



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



### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

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

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

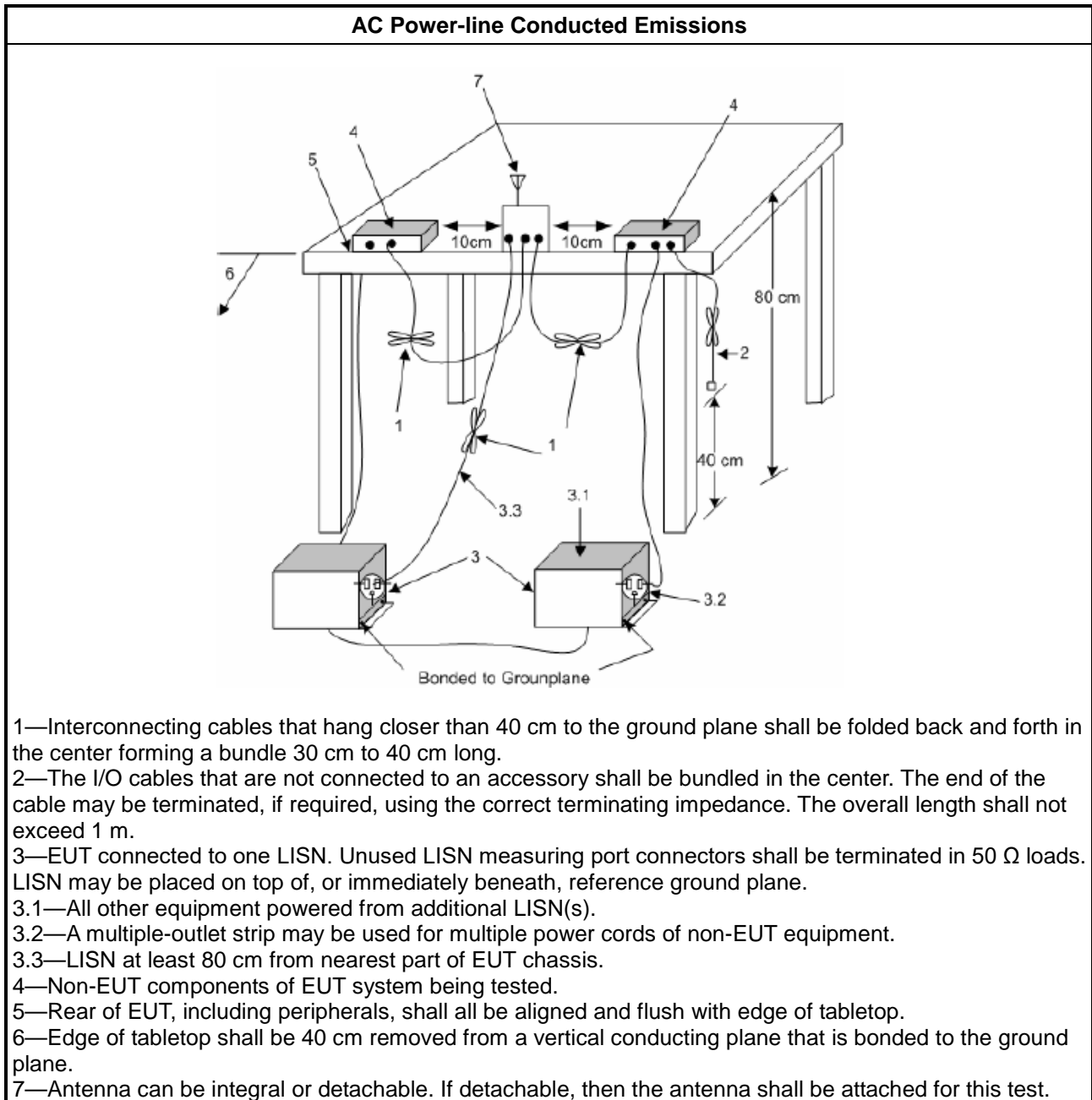
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

### 3.1.4 Test Setup



### 3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

### 3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

### 3.2 DTS Bandwidth

#### 3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
<b>Systems using digital modulation techniques:</b>
<ul style="list-style-type: none"> <li>▪ 6 dB bandwidth <math>\geq</math> 500 kHz.</li> </ul>

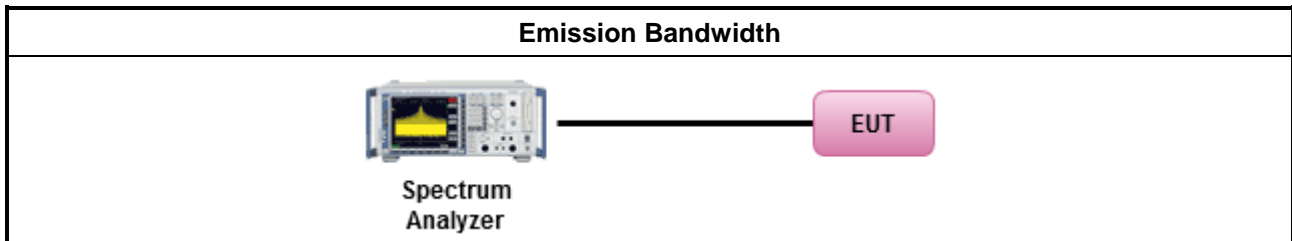
#### 3.2.2 Measuring Instruments

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

#### 3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>▪ For the emission bandwidth shall be measured using one of the options below:</li> </ul>
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> <li>▪ If <math>G_{TX} \leq 6</math> dBi, then <math>P_{Out} \leq 30</math> dBm (1 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS):</li> </ul>
	<ul style="list-style-type: none"> <li>- Single beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Overlap beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Aggregate power on all beams: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3 + 8</math> dB dBm</li> </ul>
<p><math>P_{Out}</math> = maximum peak conducted output power or maximum conducted output power in dBm,  <math>G_{TX}</math> = the maximum transmitting antenna directional gain in dBi.</p>	

#### 3.3.2 Measuring Instruments

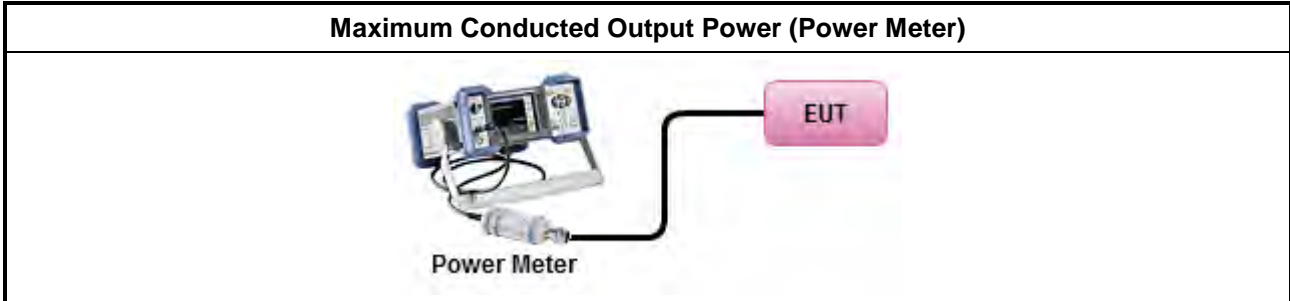
Refer a test equipment and calibration data table in this test report.



**3.3.3 Test Procedures**

<b>Test Method</b>	
<ul style="list-style-type: none"> <li>▪ Maximum Peak Conducted Output Power</li> </ul>	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> <li>▪ Maximum Conducted Output Power</li> </ul>	
[duty cycle ≥ 98% or external video / power trigger]	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	<input type="checkbox"/> 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	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	<input type="checkbox"/> 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)	
	<input type="checkbox"/> 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).
	<input checked="" type="checkbox"/> 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).
<ul style="list-style-type: none"> <li>▪ For conducted measurement.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If multiple transmit chains, EIRP calculation could be following as methods:  <math display="block">P_{total} = P_1 + P_2 + \dots + P_n</math>                     (calculated in linear unit [mW] and transfer to log unit [dBm])  <math display="block">EIRP_{total} = P_{total} + DG</math> </li> </ul>	

### 3.3.4 Test Setup



### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C





### 3.4 Power Spectral Density

#### 3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> <li>Power Spectral Density (PSD) <math>\leq</math> 8 dBm/3kHz</li> </ul>

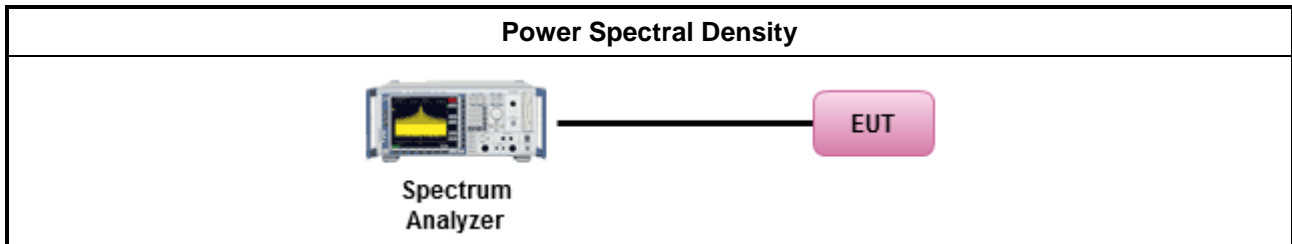
#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

Test Method			
<ul style="list-style-type: none"> <li>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).</li> </ul>			
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.			
<ul style="list-style-type: none"> <li>For conducted measurement.             <ul style="list-style-type: none"> <li>If The EUT supports multiple transmit chains using options given below:                 <table border="1"> <tbody> <tr> <td> <input checked="" type="checkbox"/> 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.                 </td> </tr> <tr> <td> <input type="checkbox"/> 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,                 </td> </tr> <tr> <td> <input type="checkbox"/> 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.                 </td> </tr> </tbody> </table> </li> </ul> </li> </ul>	<input checked="" type="checkbox"/> 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.	<input type="checkbox"/> 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,	<input type="checkbox"/> 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.
<input checked="" type="checkbox"/> 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.			
<input type="checkbox"/> 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,			
<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.			

### 3.4.4 Test Setup



### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

### 3.5 Emissions in Non-restricted Frequency Bands

#### 3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

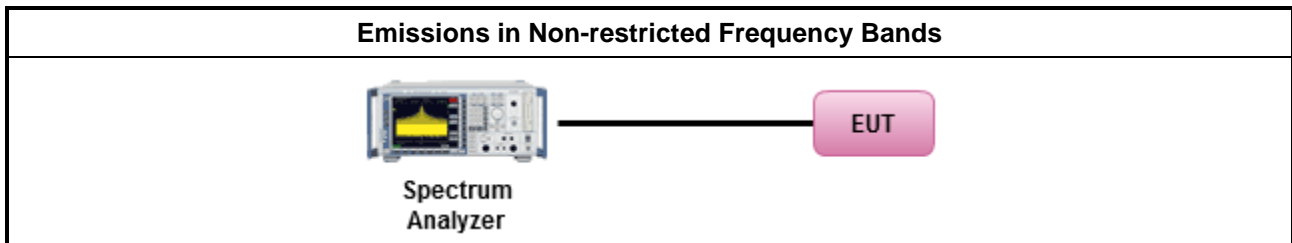
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.</li> </ul>

#### 3.5.4 Test Setup



#### 3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



### 3.6 Emissions in Restricted Frequency Bands

#### 3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

#### 3.6.2 Measuring Instruments

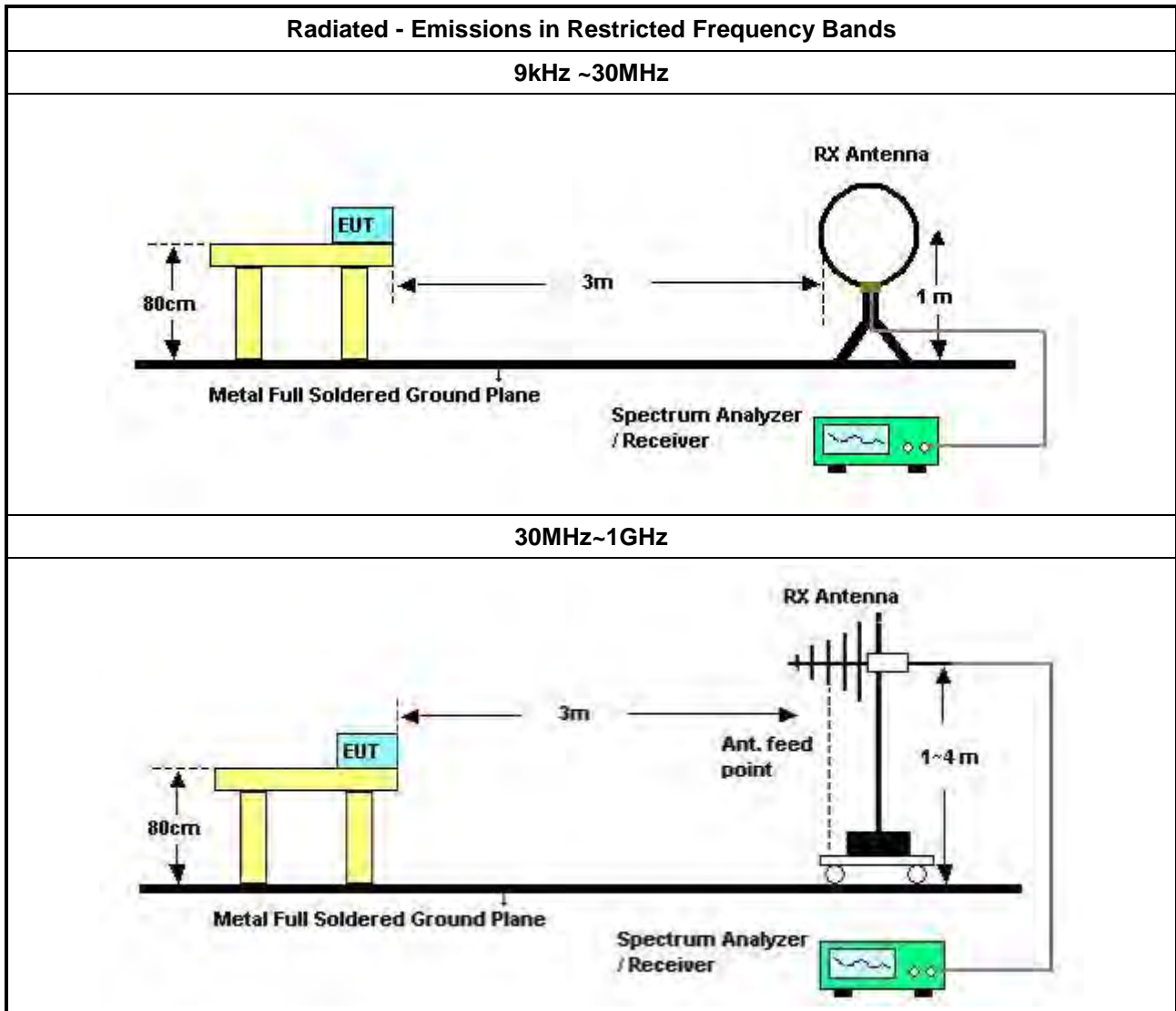
Refer a test equipment and calibration data table in this test report.

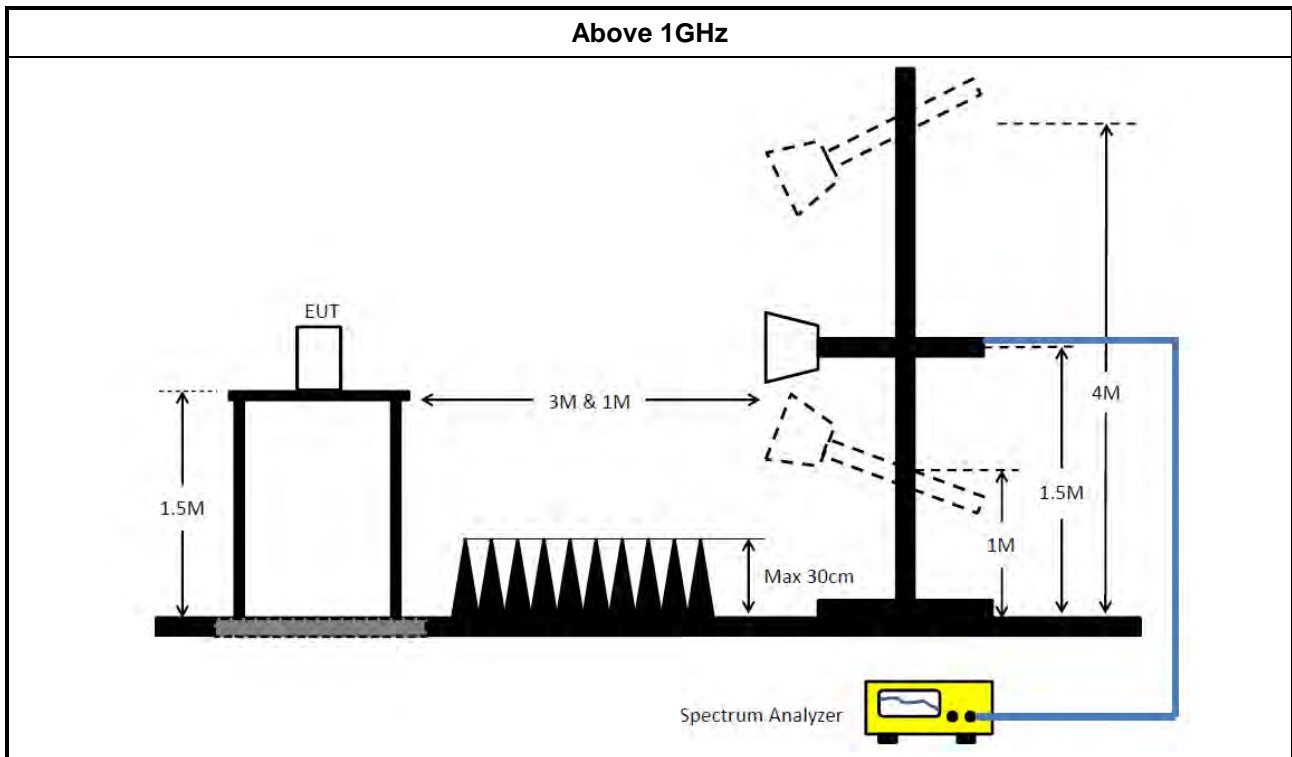


**3.6.3 Test Procedures**

<b>Test Method</b>	
<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>	
<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.</li> </ul>
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq$ 98%).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq$ 1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> <li>▪ For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074 clause 8.7 &amp; 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.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 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).</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 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</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>

**3.6.4 Test Setup**





### 3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

### 3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

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

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

### 3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



## 4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 18, 2022	May 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)





Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2021	Nov. 05, 2022	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 19, 2022	May 18, 2023	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH04-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 28, 2022	Mar. 27, 2023	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz-40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1531344	300MHz-40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1728002	300MHz-40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz -18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz -18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz -18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz -18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz -18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz -26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P1	1 GHz -26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P2	1 GHz -26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P3	1 GHz -26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P4	1 GHz -26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P5	1 GHz -26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

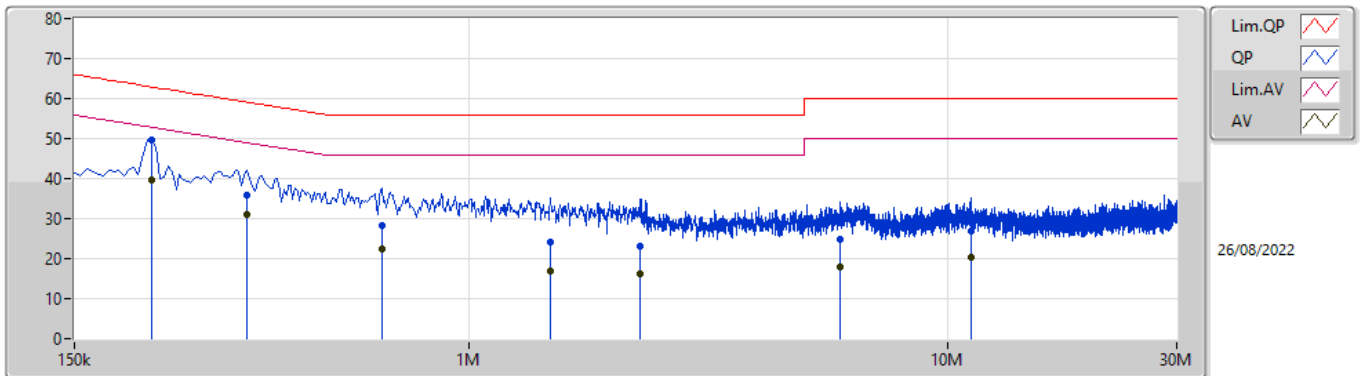
N.C.R. means Non-Calibration required.



**Summary**

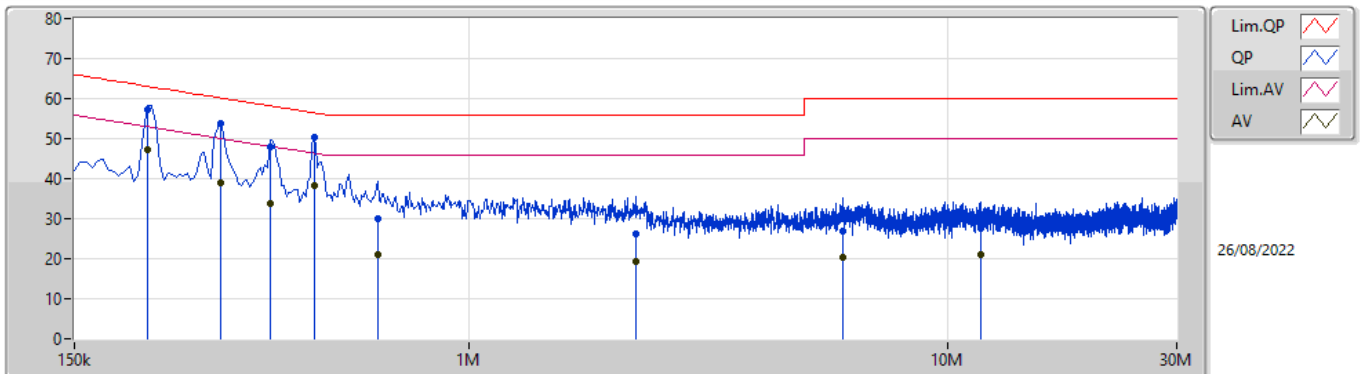
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	213k	57.30	63.09	-5.79	Neutral

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	217.5k	49.49	62.92	-13.43	9.99	Line	-	39.50	0.06	0.04	9.89
AV	217.5k	39.53	52.92	-13.39	9.99	Line	"Worst"	29.54	0.06	0.04	9.89
QP	343.5k	35.79	59.12	-23.33	10.01	Line	-	25.78	0.06	0.06	9.89
AV	343.5k	30.89	49.12	-18.23	10.01	Line	-	20.88	0.06	0.06	9.89
QP	658.5k	28.24	56.00	-27.76	10.01	Line	-	18.23	0.07	0.05	9.89
AV	658.5k	22.42	46.00	-23.58	10.01	Line	-	12.41	0.07	0.05	9.89
QP	1.478M	24.12	56.00	-31.88	10.04	Line	-	14.08	0.08	0.07	9.89
AV	1.478M	16.95	46.00	-29.05	10.04	Line	-	6.91	0.08	0.07	9.89
QP	2.279M	23.26	56.00	-32.74	10.08	Line	-	13.18	0.10	0.09	9.89
AV	2.279M	16.29	46.00	-29.71	10.08	Line	-	6.21	0.10	0.09	9.89
QP	5.964M	24.91	60.00	-35.09	10.19	Line	-	14.72	0.16	0.13	9.90
AV	5.964M	18.07	50.00	-31.93	10.19	Line	-	7.88	0.16	0.13	9.90
QP	11.135M	26.99	60.00	-33.01	10.31	Line	-	16.68	0.23	0.16	9.92
AV	11.135M	20.49	50.00	-29.51	10.31	Line	-	10.18	0.23	0.16	9.92

## Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	213k	57.30	63.09	-5.79	10.00	Neutral	"Worst"	47.30	0.07	0.04	9.89
AV	213k	47.26	53.09	-5.83	10.00	Neutral	-	37.26	0.07	0.04	9.89
QP	303k	53.74	60.17	-6.43	10.01	Neutral	-	43.73	0.07	0.05	9.89
AV	303k	38.96	50.17	-11.21	10.01	Neutral	-	28.95	0.07	0.05	9.89
QP	384k	48.09	58.20	-10.11	10.02	Neutral	-	38.07	0.07	0.06	9.89
AV	384k	33.71	48.20	-14.49	10.02	Neutral	-	23.69	0.07	0.06	9.89
QP	474k	50.32	56.44	-6.12	10.02	Neutral	-	40.30	0.07	0.06	9.89
AV	474k	38.31	46.44	-8.13	10.02	Neutral	-	28.29	0.07	0.06	9.89
QP	645k	30.15	56.00	-25.85	10.02	Neutral	-	20.13	0.08	0.05	9.89
AV	645k	21.15	46.00	-24.85	10.02	Neutral	-	11.13	0.08	0.05	9.89
QP	2.225M	26.35	56.00	-29.65	10.08	Neutral	-	16.27	0.10	0.09	9.89
AV	2.225M	19.40	46.00	-26.60	10.08	Neutral	-	9.32	0.10	0.09	9.89
QP	6.036M	26.76	60.00	-33.24	10.21	Neutral	-	16.55	0.18	0.13	9.90
AV	6.036M	20.36	50.00	-29.64	10.21	Neutral	-	10.15	0.18	0.13	9.90
QP	11.666M	27.63	60.00	-32.37	10.33	Neutral	-	17.30	0.25	0.16	9.92
AV	11.666M	21.15	50.00	-28.85	10.33	Neutral	-	10.82	0.25	0.16	9.92



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	7.05M	12.244M	12M2G1D	7.025M	11.044M
802.11g_Nss1,(6Mbps)_2TX	16.375M	26.912M	26M9D1D	16.275M	16.767M

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	12.244M	7.025M	12.019M
2437MHz	Pass	500k	7.05M	11.669M	7.025M	11.169M
2462MHz	Pass	500k	7.05M	11.469M	7.05M	11.044M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.767M	16.375M	16.817M
2437MHz	Pass	500k	16.275M	26.912M	16.3M	21.514M
2462MHz	Pass	500k	16.35M	16.792M	16.325M	16.792M

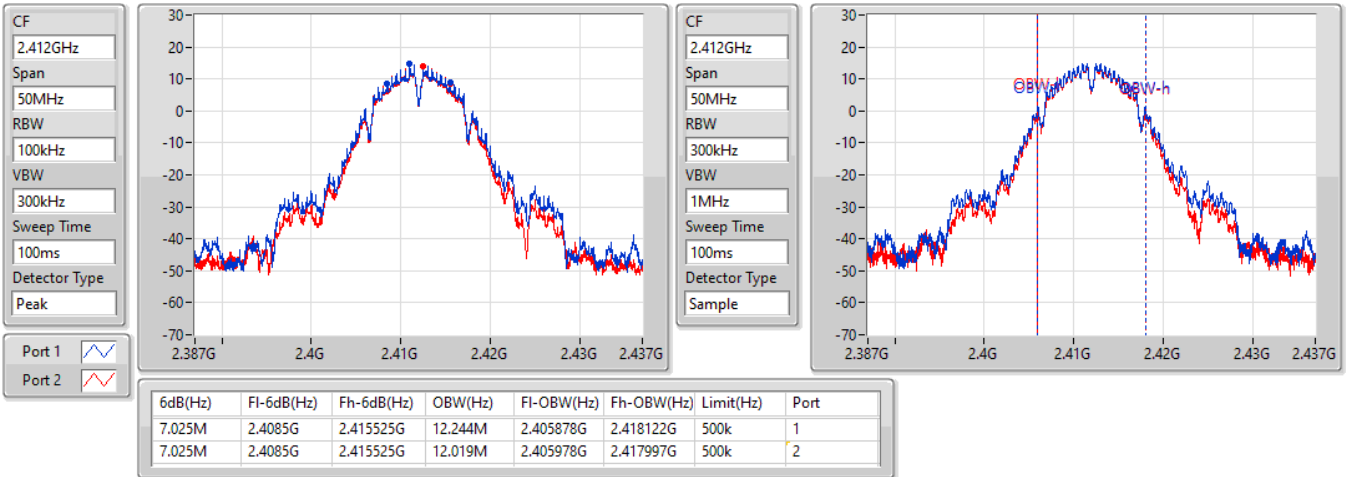
Port X-N dB = Port X 6dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

802.11b\_Nss1,(1Mbps)\_2TX

EBW

2412MHz

27/08/2022

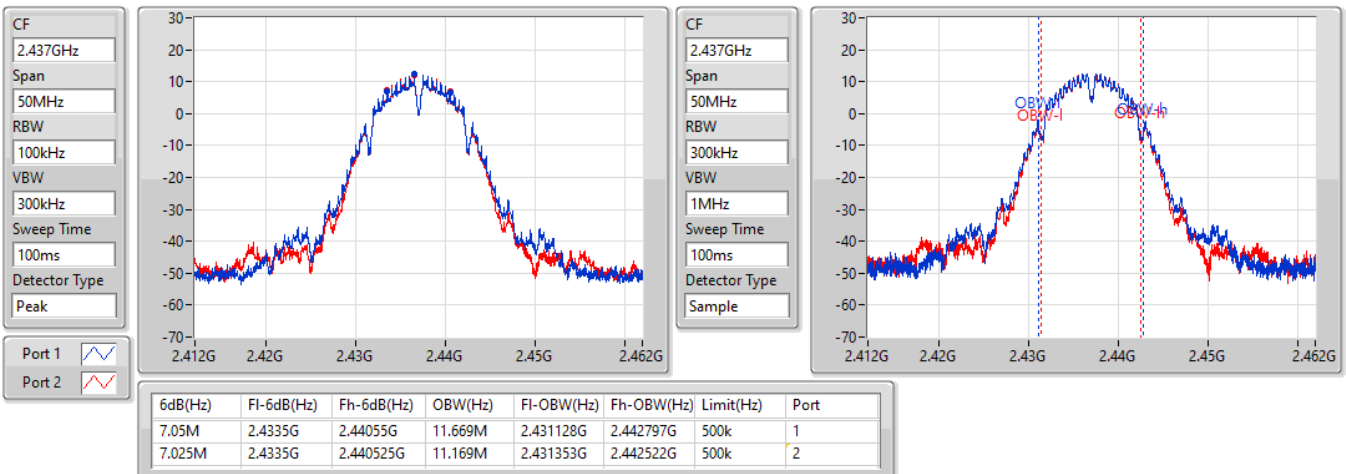


802.11b\_Nss1,(1Mbps)\_2TX

EBW

2437MHz

27/08/2022



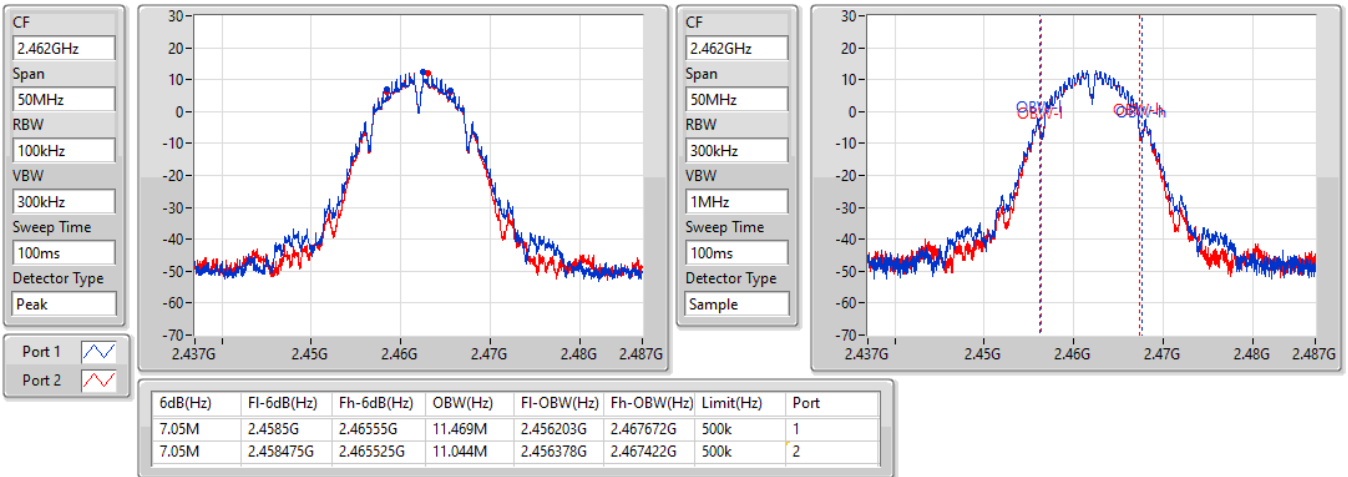


802.11b\_Nss1,(1Mbps)\_2TX

EBW

2462MHz

27/08/2022

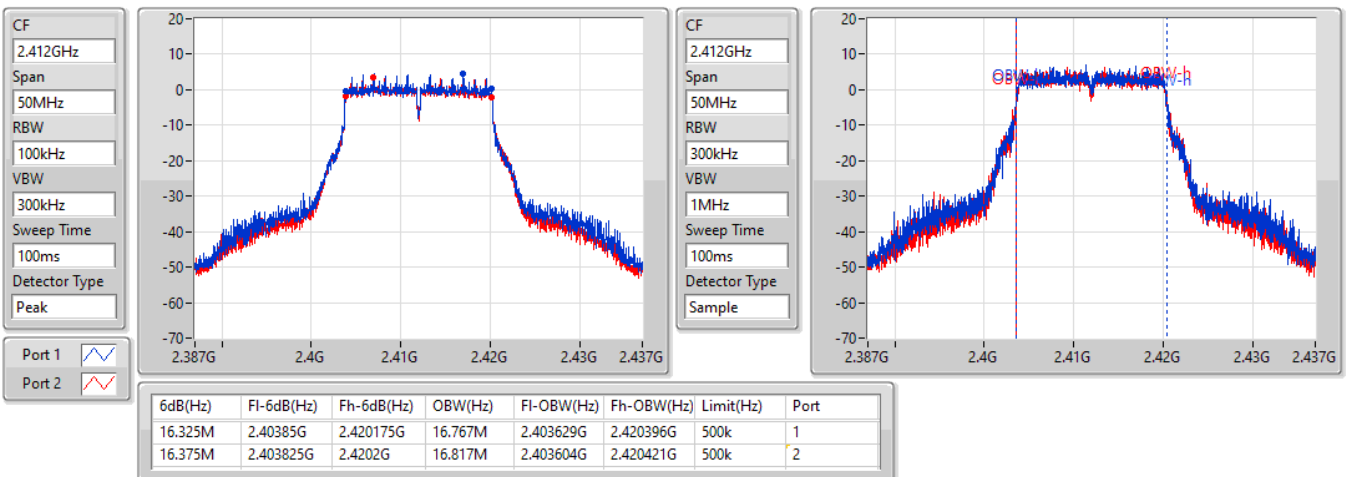


802.11g\_Nss1,(6Mbps)\_2TX

EBW

2412MHz

27/08/2022

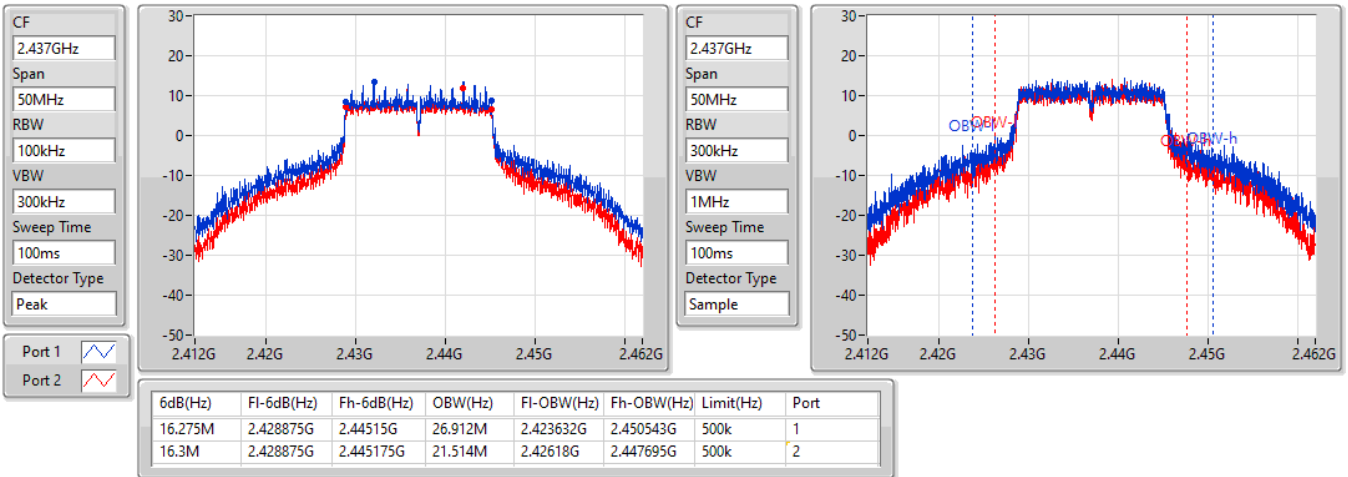


802.11g\_Nss1,(6Mbps)\_2TX

EBW

2437MHz

27/08/2022

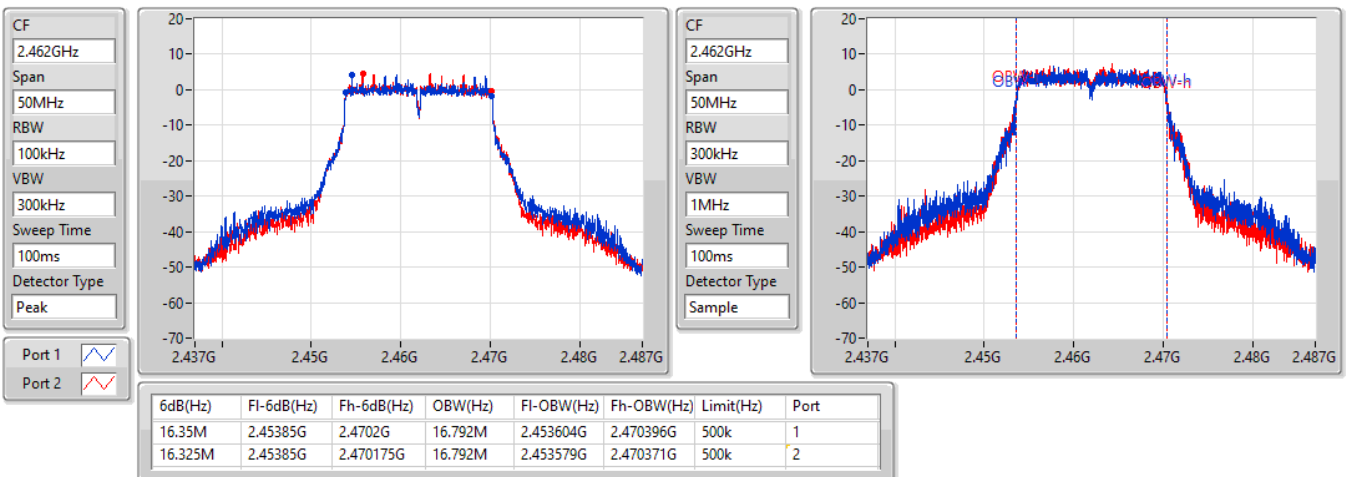


802.11g\_Nss1,(6Mbps)\_2TX

EBW

2462MHz

27/08/2022





**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	18.975M	19.115M	19M1D1D	18.85M	18.991M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.6M	37.831M	37M8D1D	37.05M	37.681M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.875M	19.015M	18.975M	18.991M
2437MHz	Pass	500k	18.925M	19.115M	18.85M	19.115M
2462MHz	Pass	500k	18.9M	19.04M	18.925M	19.015M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.6M	37.731M	37.1M	37.781M
2437MHz	Pass	500k	37.5M	37.831M	37.3M	37.831M
2452MHz	Pass	500k	37.55M	37.781M	37.05M	37.681M

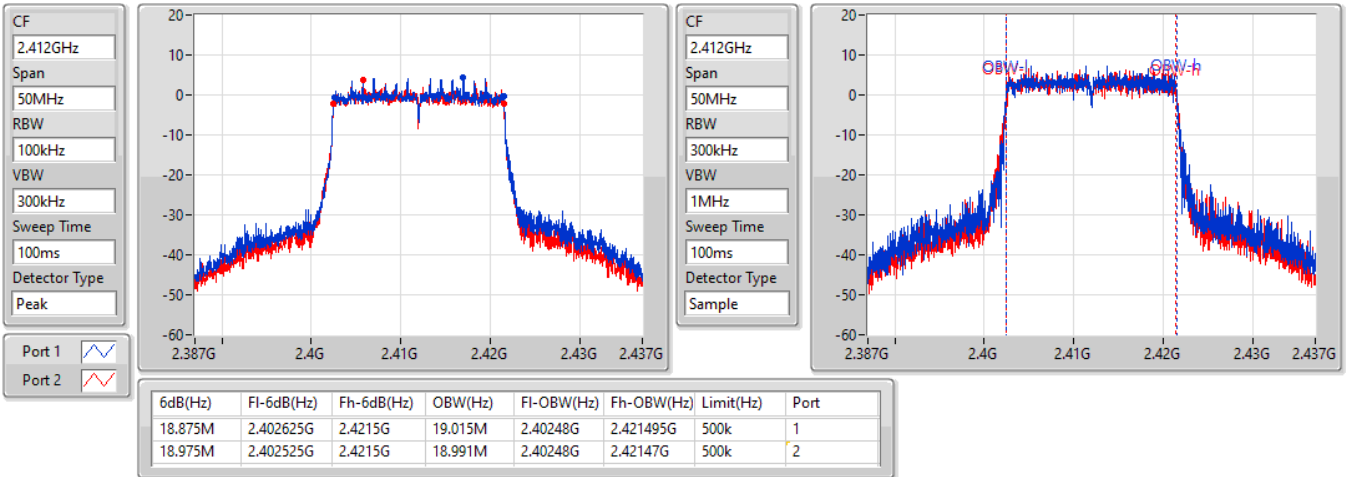
Port X-N dB = Port X 6dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

EBW

2412MHz

27/08/2022

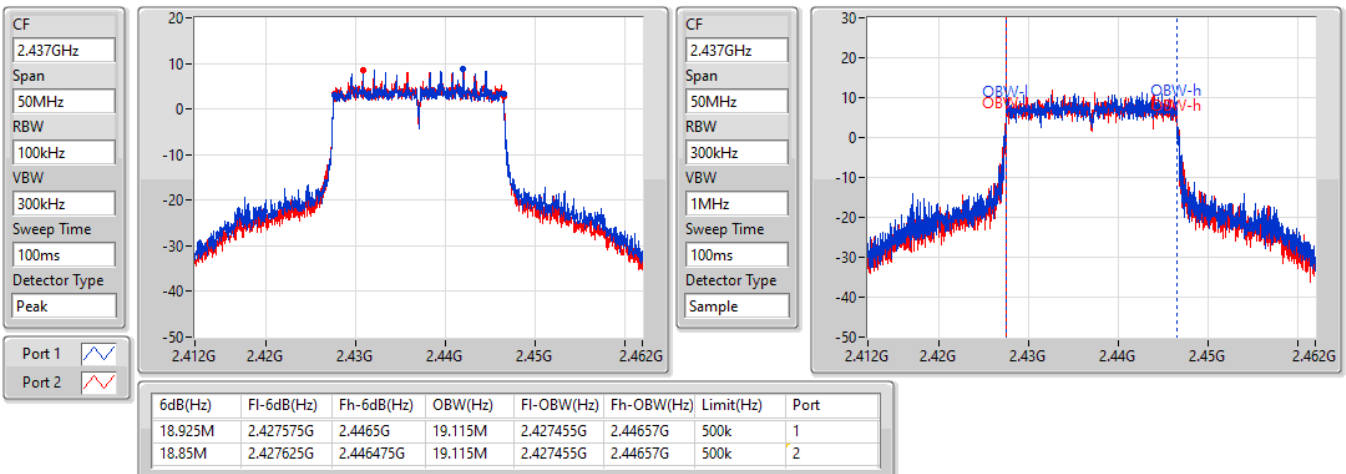


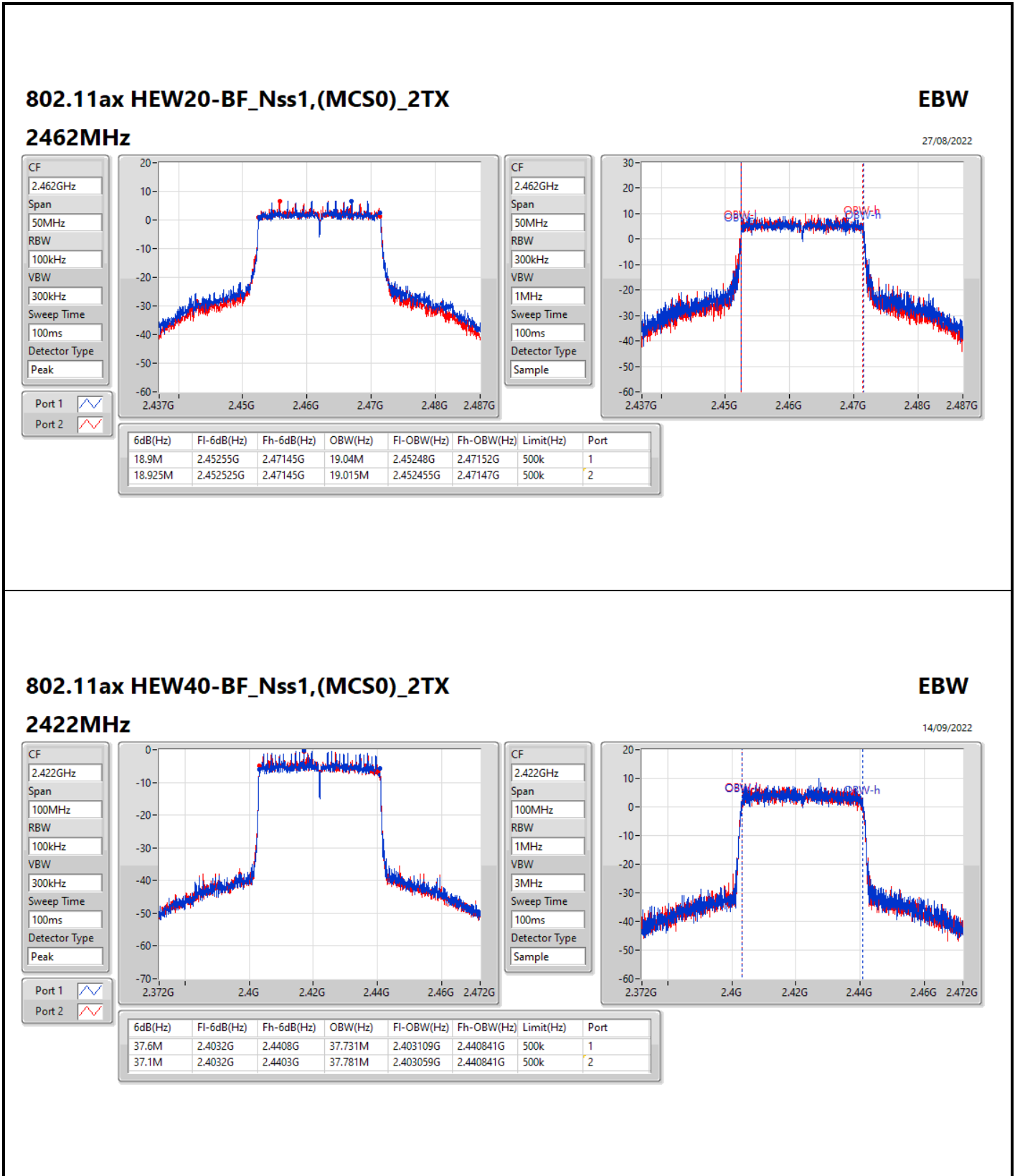
802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

EBW

2437MHz

27/08/2022



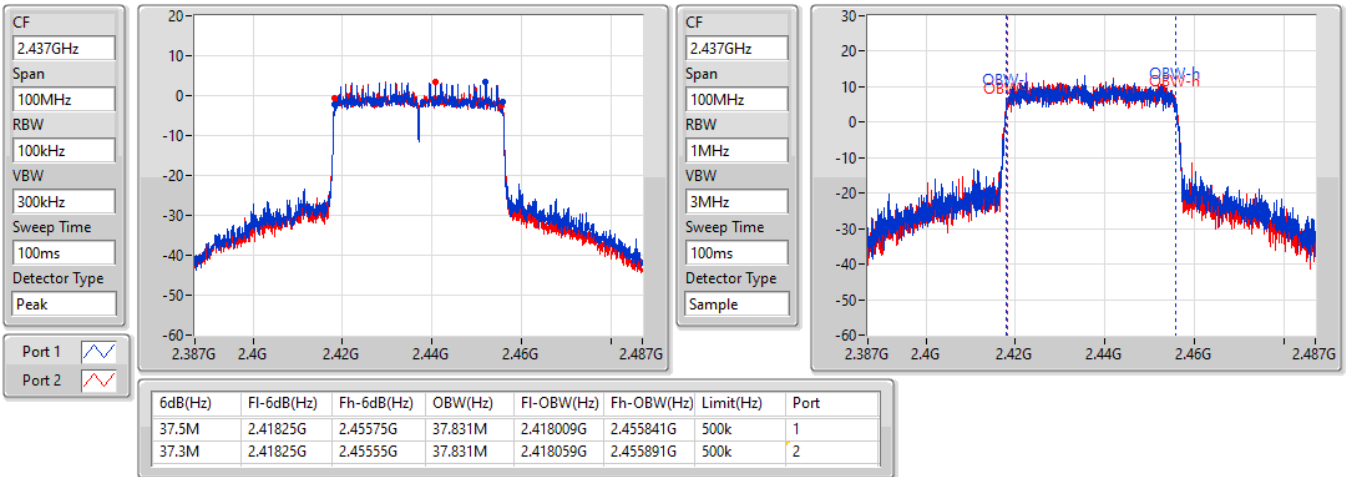


802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

EBW

2437MHz

27/08/2022

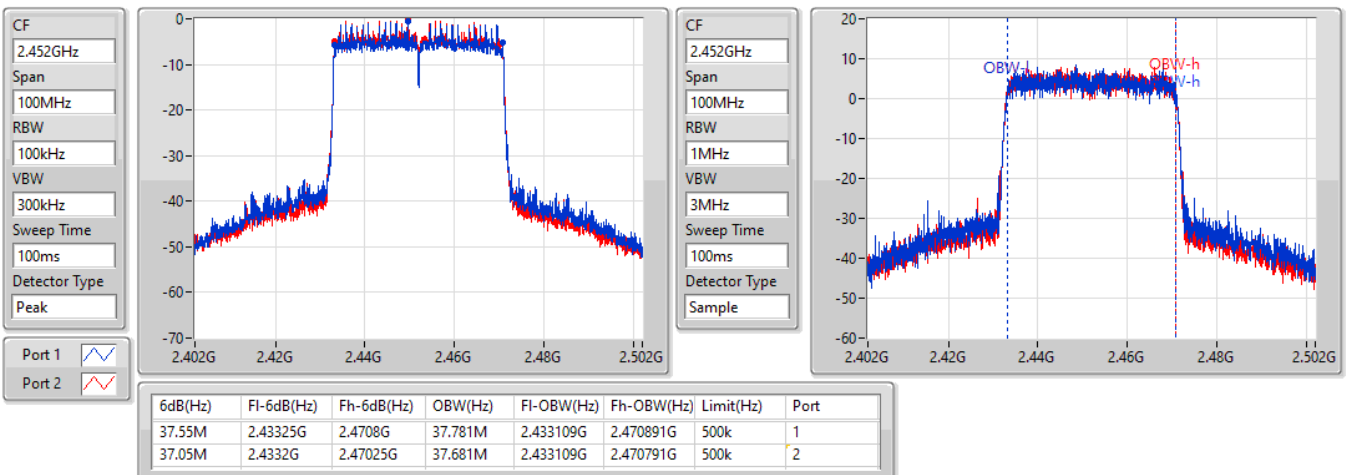


802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

EBW

2452MHz

27/08/2022





**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	24.84	0.30479
802.11g_Nss1,(6Mbps)_2TX	26.04	0.40179





Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.41	21.99	21.66	24.84	30.00
2437MHz	Pass	5.41	19.87	19.74	22.82	30.00
2462MHz	Pass	5.41	19.87	19.68	22.79	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.41	15.66	15.31	18.50	30.00
2417MHz	Pass	5.41	19.07	18.55	21.83	30.00
2437MHz	Pass	5.41	23.42	22.59	26.04	30.00
2457MHz	Pass	5.41	19.06	19.18	22.13	30.00
2462MHz	Pass	5.41	15.73	15.94	18.85	30.00

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



**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	22.59	0.18155
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.63	0.11561



**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	5.46	15.56	15.17	18.38	30.00
2417MHz	Pass	5.46	18.20	17.94	21.08	30.00
2437MHz	Pass	5.46	19.52	19.64	22.59	30.00
2457MHz	Pass	5.46	17.82	17.82	20.83	30.00
2462MHz	Pass	5.46	17.83	17.79	20.82	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.46	14.19	14.23	17.22	30.00
2427MHz	Pass	5.46	15.72	15.65	18.70	30.00
2437MHz	Pass	5.46	17.70	17.53	20.63	30.00
2447MHz	Pass	5.46	17.37	17.41	20.40	30.00
2452MHz	Pass	5.46	13.69	13.89	16.80	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	1.46
802.11g_Nss1,(6Mbps)_2TX	0.18

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	5.46	0.46	-1.06	1.46	8.00
2437MHz	Pass	5.46	-2.89	-2.57	-0.43	8.00
2462MHz	Pass	5.46	-2.23	-2.01	0.77	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.46	-8.85	-10.23	-7.35	8.00
2437MHz	Pass	5.46	-2.26	-3.28	0.18	8.00
2462MHz	Pass	5.46	-10.11	-9.41	-6.79	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

27/08/2022

CF  
2.412GHz

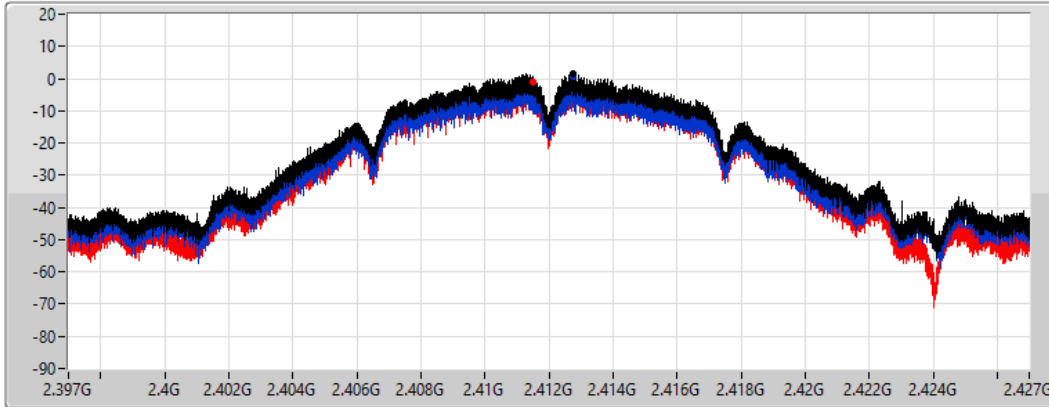
Span  
30MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
4.424357ms

Detector Type  
Peak



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.46	1.46	0.46	-1.06

### 802.11b\_Nss1,(1Mbps)\_2TX

### PSD

2437MHz

27/08/2022

CF  
2.437GHz

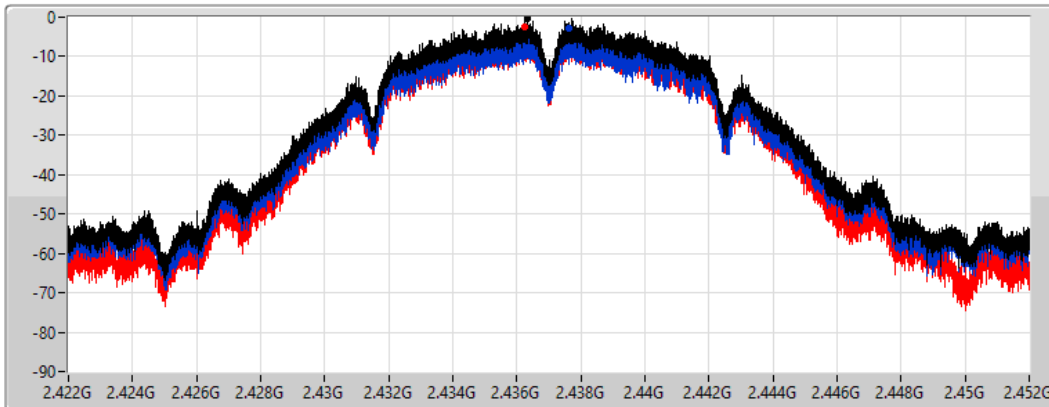
Span  
30MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
4.424357ms

Detector Type  
Peak



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.43	-0.43	-2.89	-2.57

### 802.11b\_Nss1,(1Mbps)\_2TX

### PSD

2462MHz

27/08/2022

CF  
2.462GHz

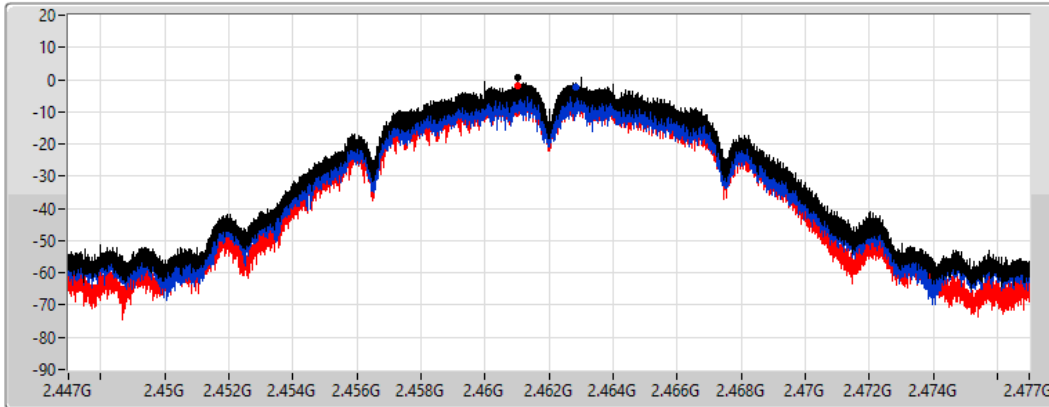
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.77	0.77	-2.23	-2.01

### 802.11g\_Nss1,(6Mbps)\_2TX

### PSD

2412MHz

27/08/2022

CF  
2.412GHz

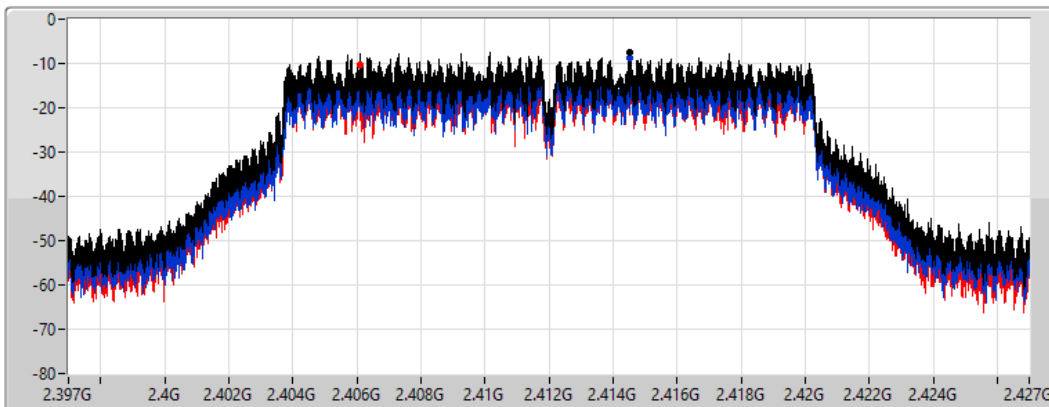
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.35	-7.35	-8.85	-10.23

### 802.11g\_Nss1,(6Mbps)\_2TX

### PSD

2437MHz

27/08/2022

CF  
2.437GHz

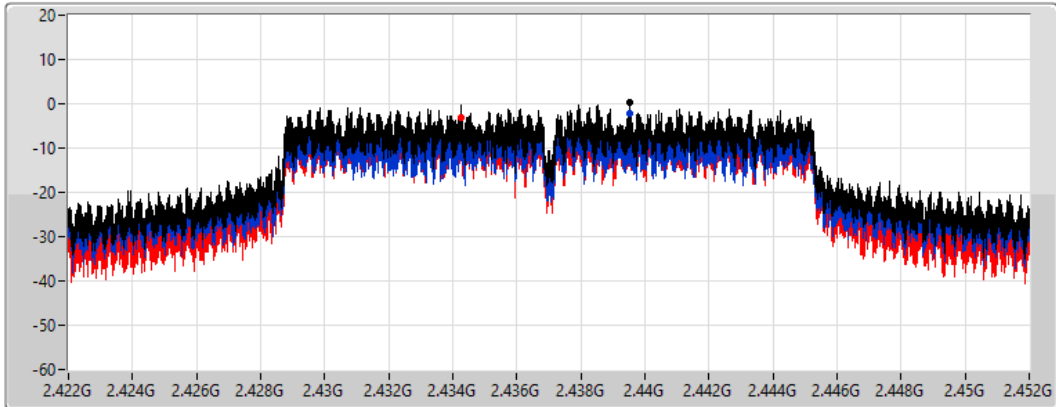
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.18	0.18	-2.26	-3.28

### 802.11g\_Nss1,(6Mbps)\_2TX

### PSD

2462MHz

27/08/2022

CF  
2.462GHz

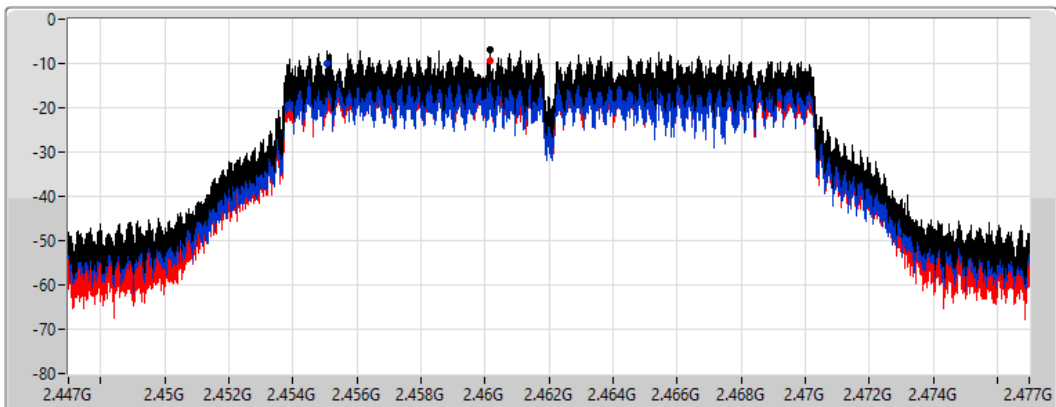
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.79	-6.79	-10.11	-9.41





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-2.26
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-8.41

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	5.46	-8.72	-9.32	-6.00	8.00
2437MHz	Pass	5.46	-5.47	-5.08	-2.26	8.00
2462MHz	Pass	5.46	-8.69	-8.54	-5.60	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.46	-15.26	-14.92	-12.09	8.00
2437MHz	Pass	5.46	-11.19	-11.47	-8.41	8.00
2452MHz	Pass	5.46	-15.07	-14.58	-11.81	8.00

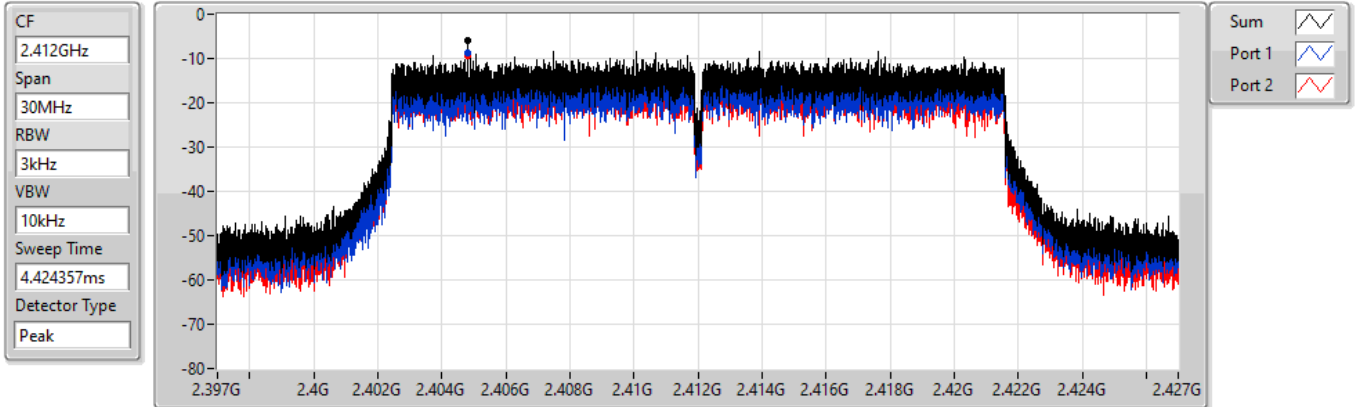
DG = Directional Gain; RBW = 3kHz;  
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

PSD

2412MHz

27/08/2022



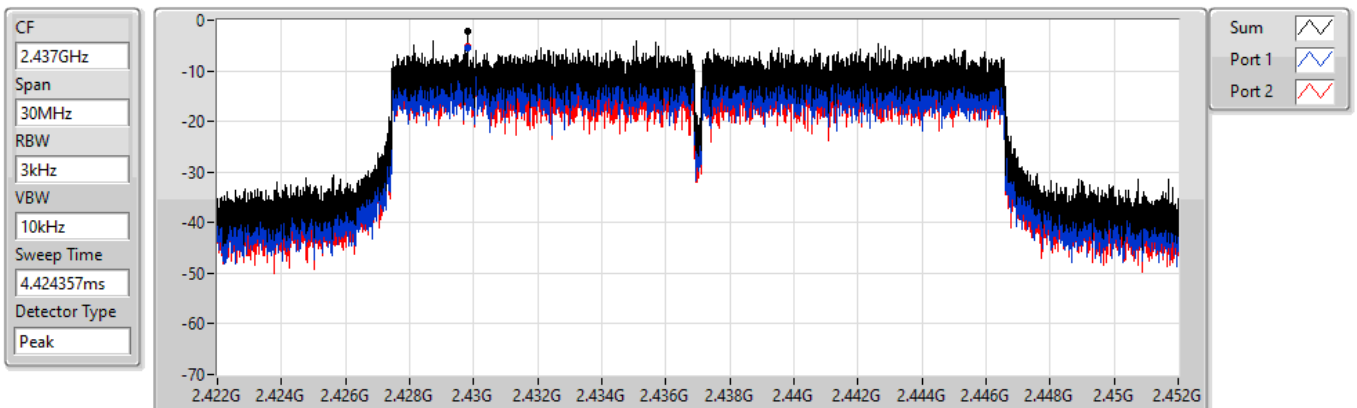
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.00	-6.00	-8.72	-9.32

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

PSD

2437MHz

27/08/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.26	-2.26	-5.47	-5.08

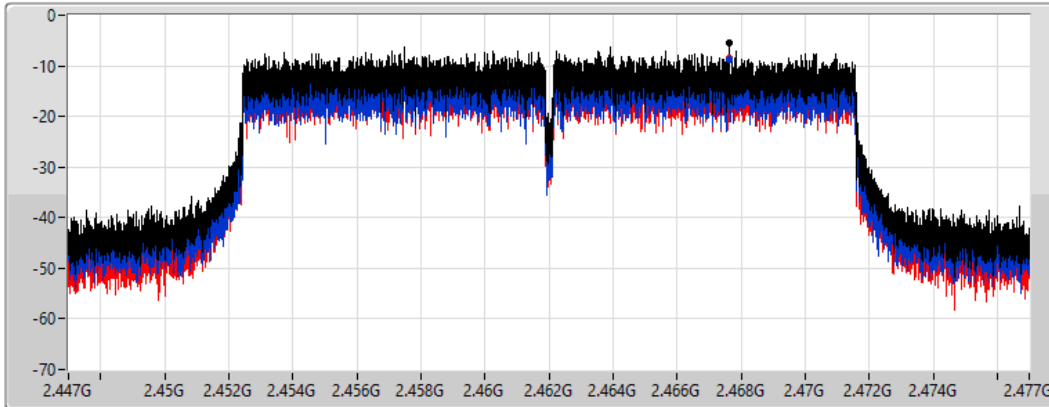
### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX




### PSD

2462MHz

27/08/2022

CF  
2.462GHz  
Span  
30MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
4.424357ms  
Detector Type  
Peak



Sum   
Port 1   
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.60	-5.60	-8.69	-8.54

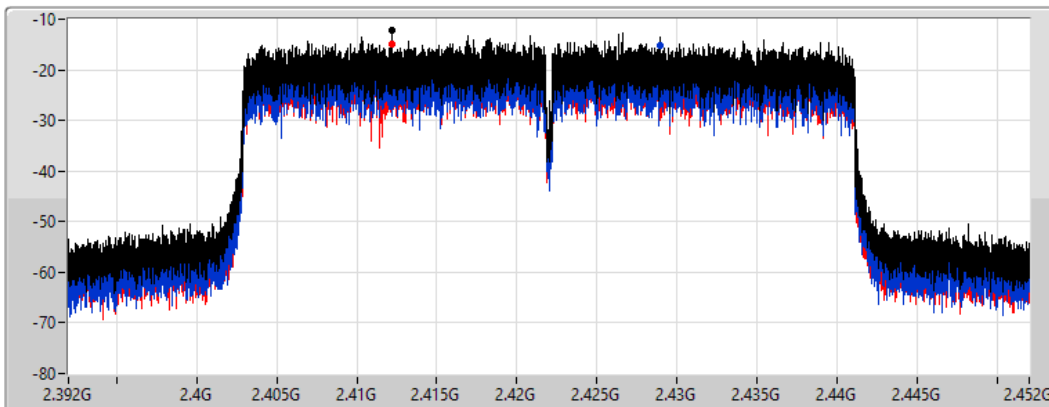
### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX




### PSD

2422MHz

14/09/2022

CF  
2.422GHz  
Span  
60MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
8.848933ms  
Detector Type  
Peak



Sum   
Port 1   
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.09	-12.09	-15.26	-14.92

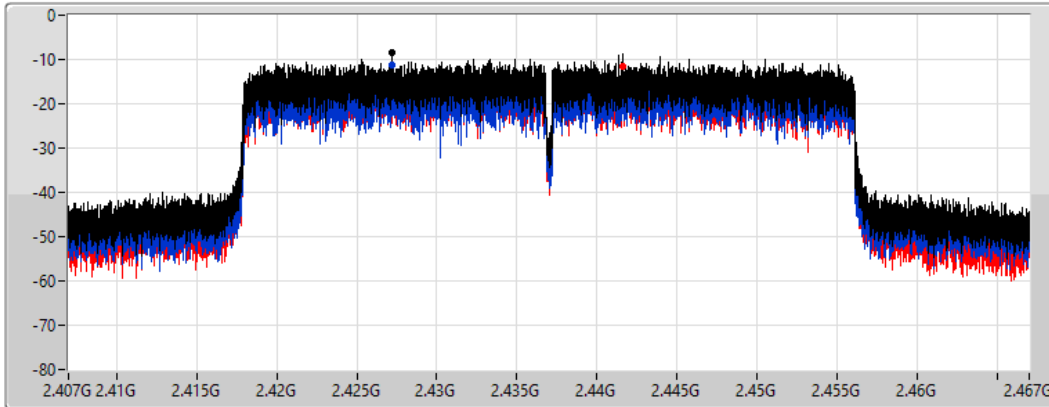
802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX




PSD

2437MHz

27/08/2022

CF  
2.437GHz  
Span  
60MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
8.848933ms  
Detector Type  
Peak



Sum   
Port 1   
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.41	-8.41	-11.19	-11.47

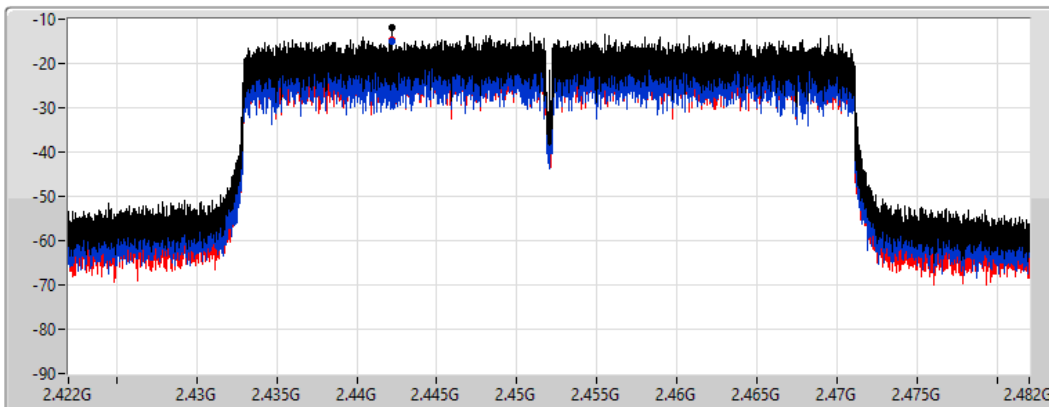
802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX




PSD

2452MHz

27/08/2022

CF  
2.452GHz  
Span  
60MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
8.848933ms  
Detector Type  
Peak



Sum   
Port 1   
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.81	-11.81	-15.07	-14.58



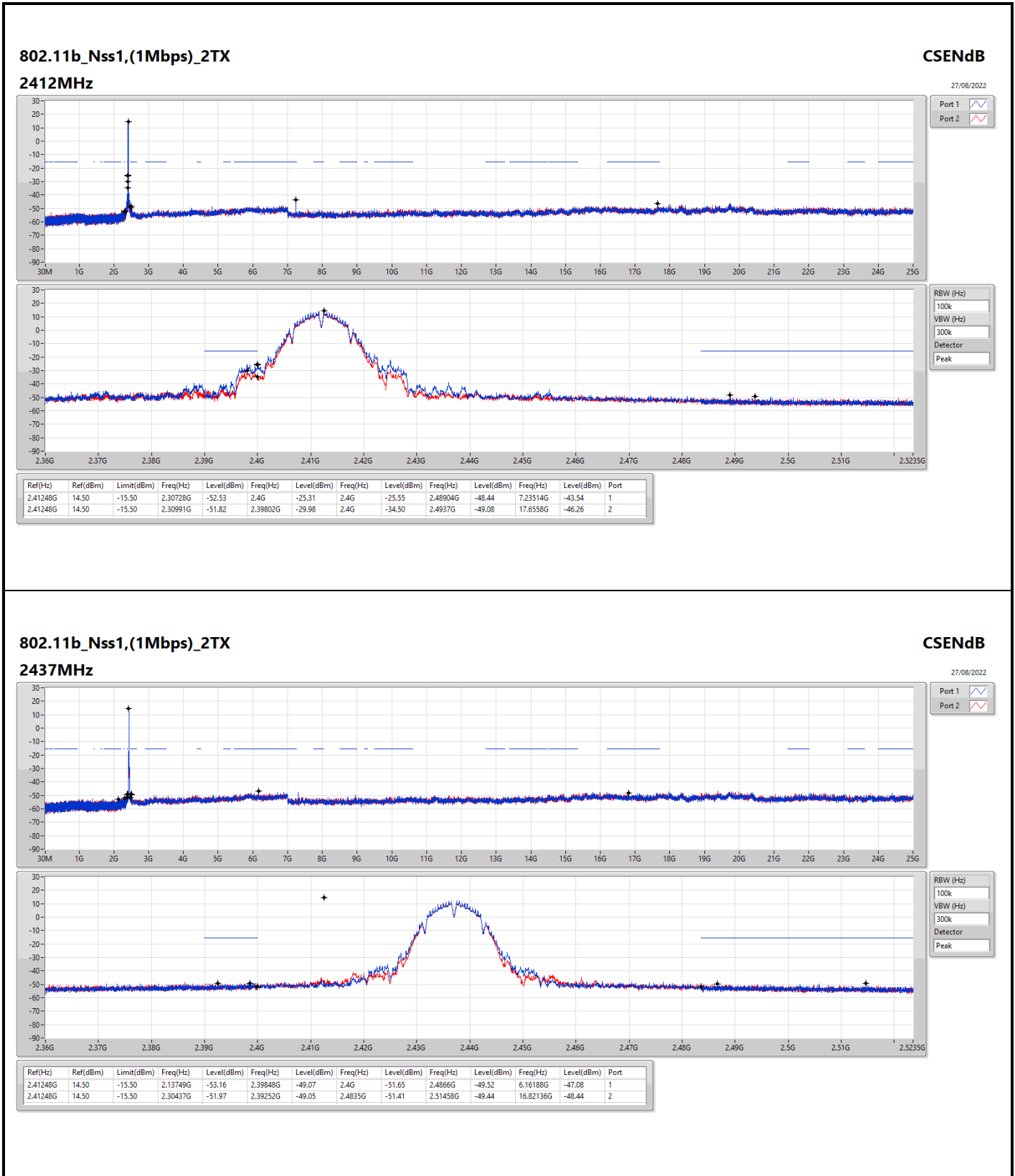
Summary

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	2.41248G	14.50	-15.50	2.30728G	-52.53	2.4G	-25.31	2.4G	-25.55	2.48904G	-48.44	7.23514G	-43.54	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43202G	13.56	-16.44	1.81769G	-52.86	2.39982G	-29.88	2.4G	-35.24	2.49268G	-50.69	5.82193G	-47.33	1



Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41248G	14.50	-15.50	2.30728G	-52.53	2.4G	-25.31	2.4G	-25.55	2.48904G	-48.44	7.23514G	-43.54	1
2412MHz	Pass	2.41248G	14.50	-15.50	2.30991G	-51.82	2.39802G	-29.98	2.4G	-34.50	2.4937G	-49.08	17.6558G	-46.26	2
2437MHz	Pass	2.41248G	14.50	-15.50	2.13749G	-53.16	2.39848G	-49.07	2.4G	-51.65	2.4866G	-49.52	6.16188G	-47.08	1
2437MHz	Pass	2.41248G	14.50	-15.50	2.30437G	-51.97	2.39252G	-49.05	2.4835G	-51.41	2.51458G	-49.44	16.82136G	-48.44	2
2462MHz	Pass	2.41248G	14.50	-15.50	922.97M	-52.54	2.39988G	-49.71	2.4835G	-50.37	2.48836G	-47.14	14.85467G	-46.91	1
2462MHz	Pass	2.41248G	14.50	-15.50	835.02M	-53.03	2.3952G	-49.41	2.4835G	-51.12	2.48832G	-45.12	21.96005G	-47.74	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43202G	13.56	-16.44	1.81769G	-52.86	2.39982G	-29.88	2.4G	-35.24	2.49268G	-50.69	5.82193G	-47.33	1
2412MHz	Pass	2.43202G	13.56	-16.44	2.30088G	-52.77	2.39956G	-33.70	2.4G	-36.38	2.492G	-50.93	5.83036G	-48.16	2
2437MHz	Pass	2.43202G	13.56	-16.44	850.74M	-53.03	2.3967G	-30.29	2.4G	-33.73	2.4835G	-35.74	17.0658G	-46.89	1
2437MHz	Pass	2.43202G	13.56	-16.44	1.62518G	-52.39	2.39888G	-36.87	2.4G	-40.22	2.4842G	-41.23	5.88655G	-47.34	2
2462MHz	Pass	2.43202G	13.56	-16.44	2.03788G	-52.54	2.39014G	-50.63	2.4835G	-44.15	2.4836G	-37.65	17.67266G	-47.38	1
2462MHz	Pass	2.43202G	13.56	-16.44	1.96973G	-52.20	2.39062G	-50.78	2.4835G	-45.60	2.48352G	-39.70	23.37607G	-47.61	2



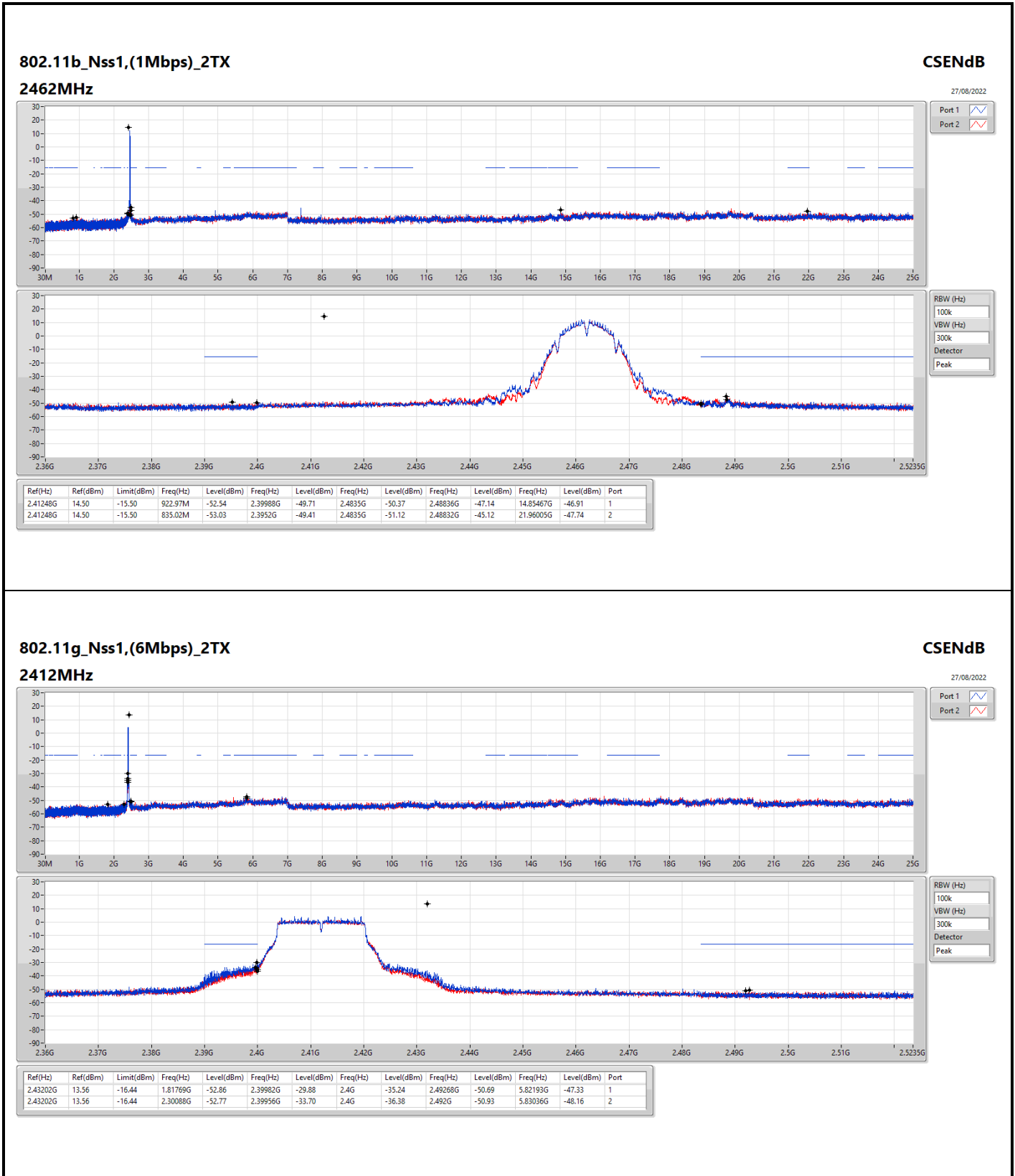
### 802.11b\_Nss1,(1Mbps)\_2TX

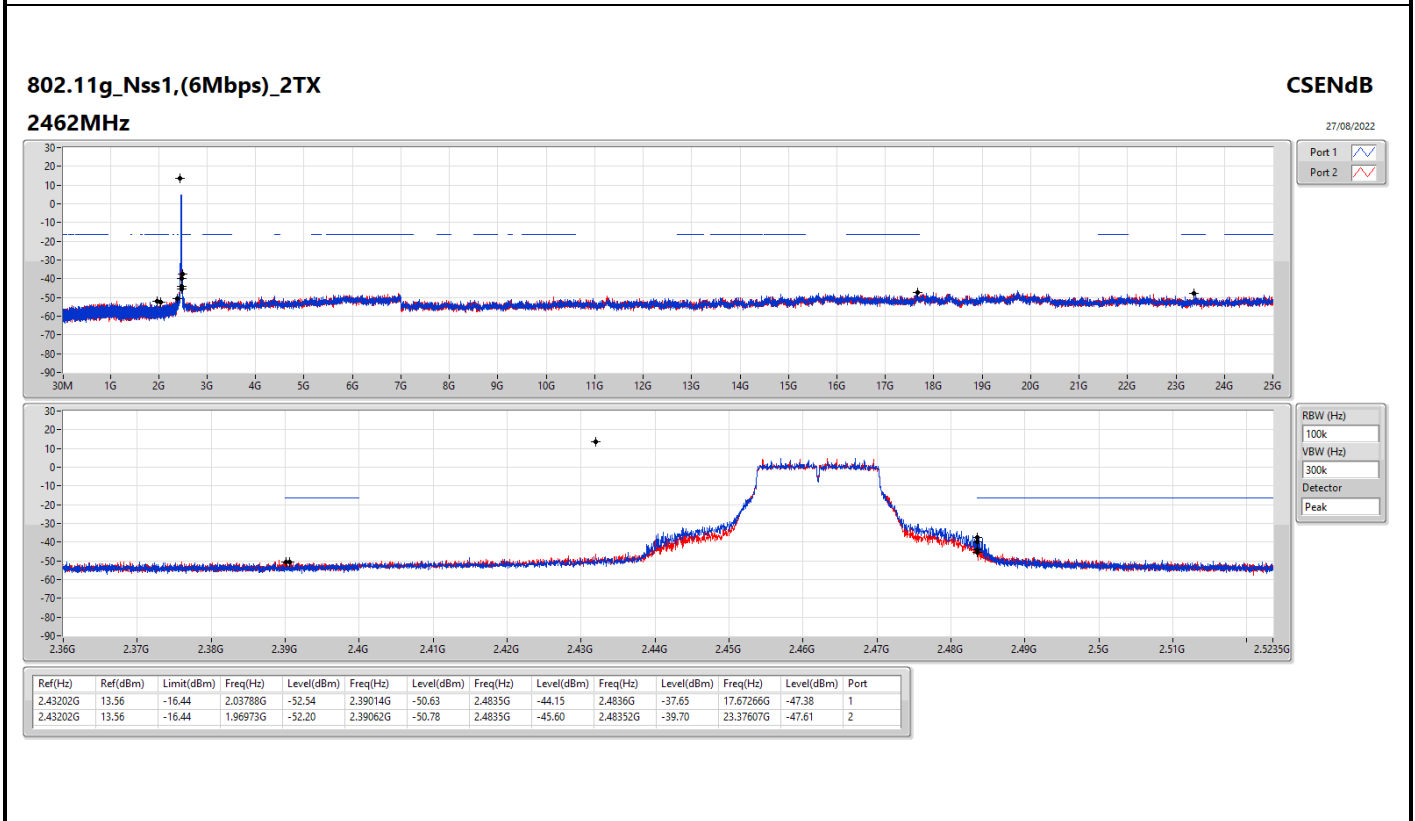
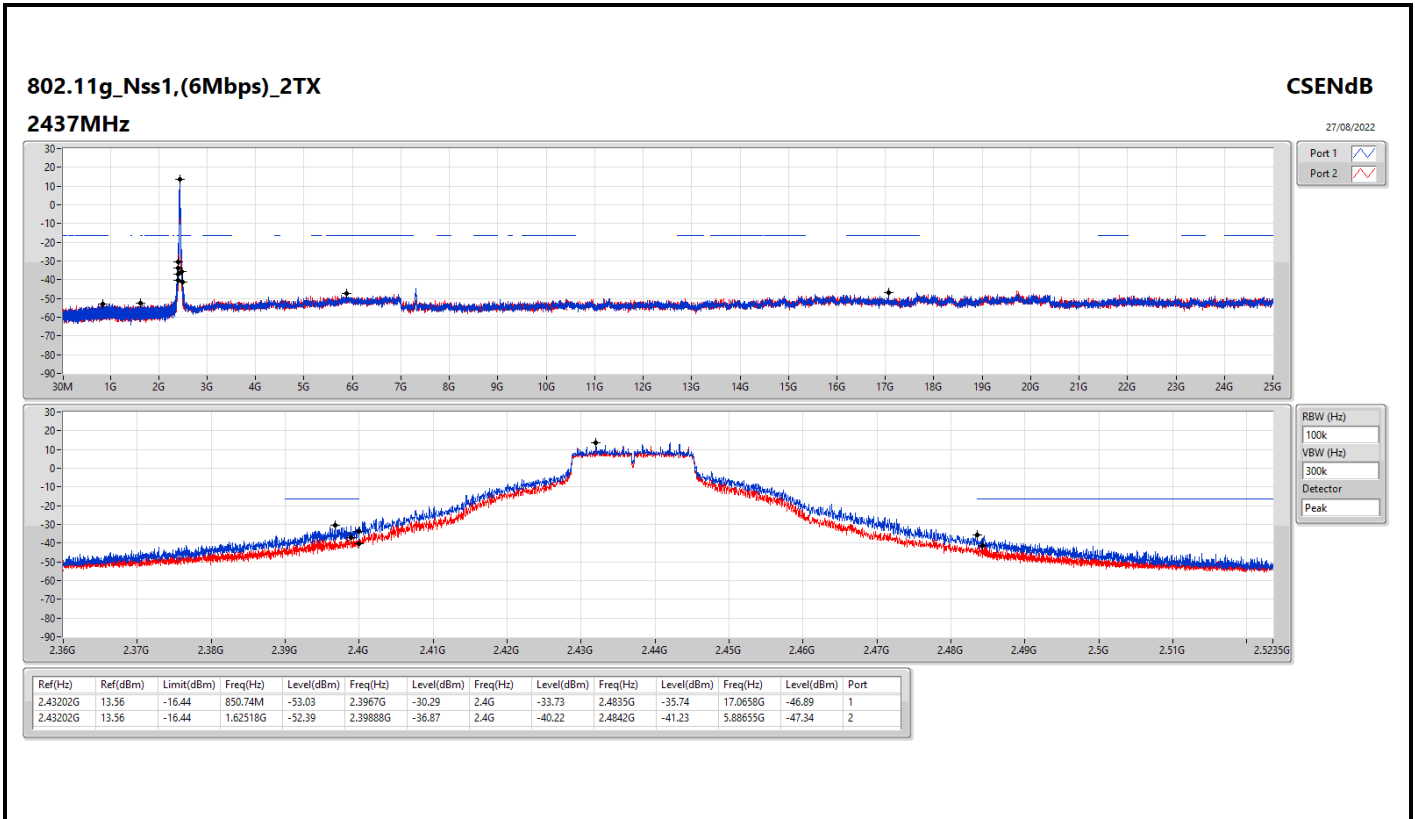
#### 2437MHz

CSENdB

27/08/2022









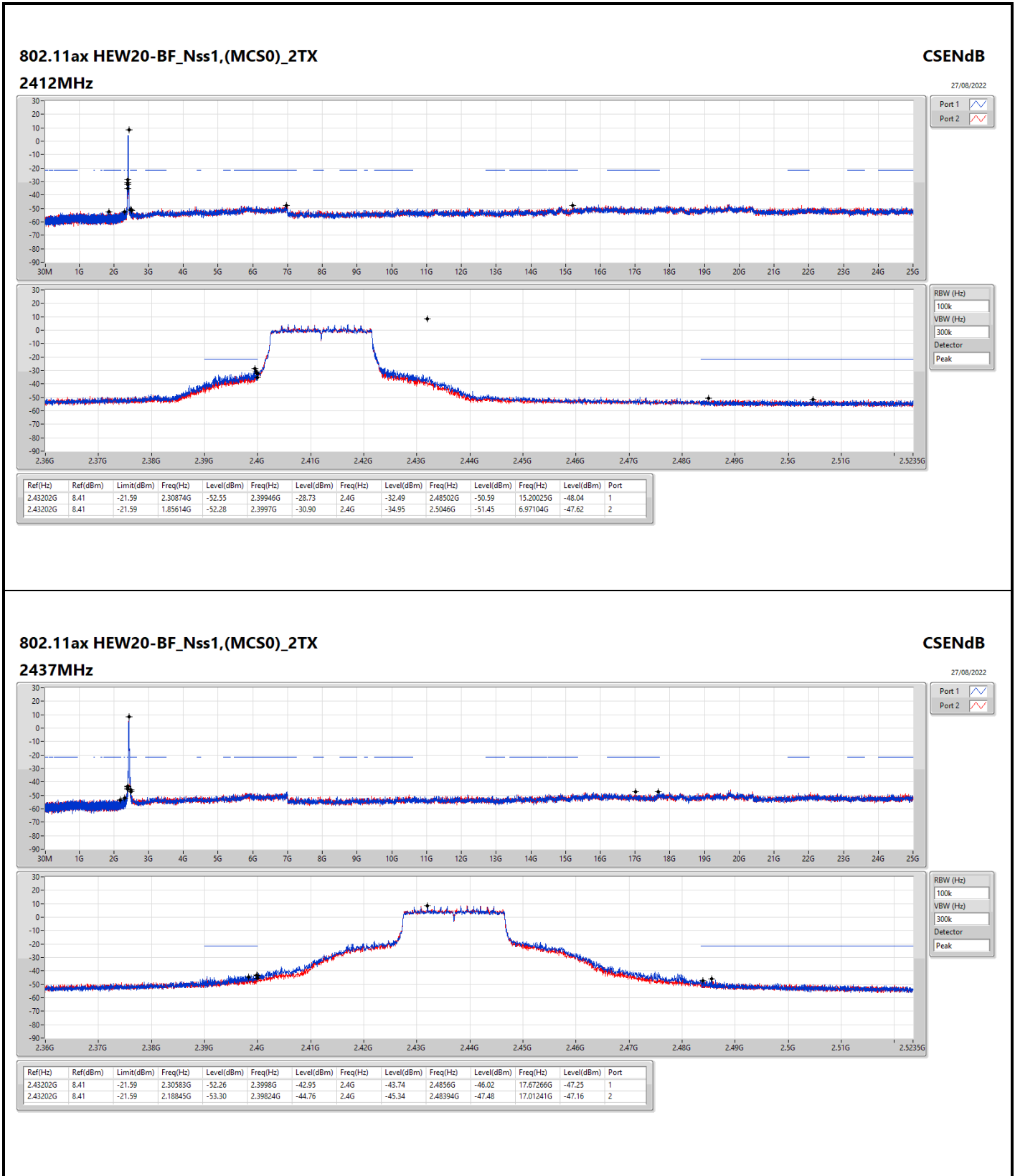
Summary

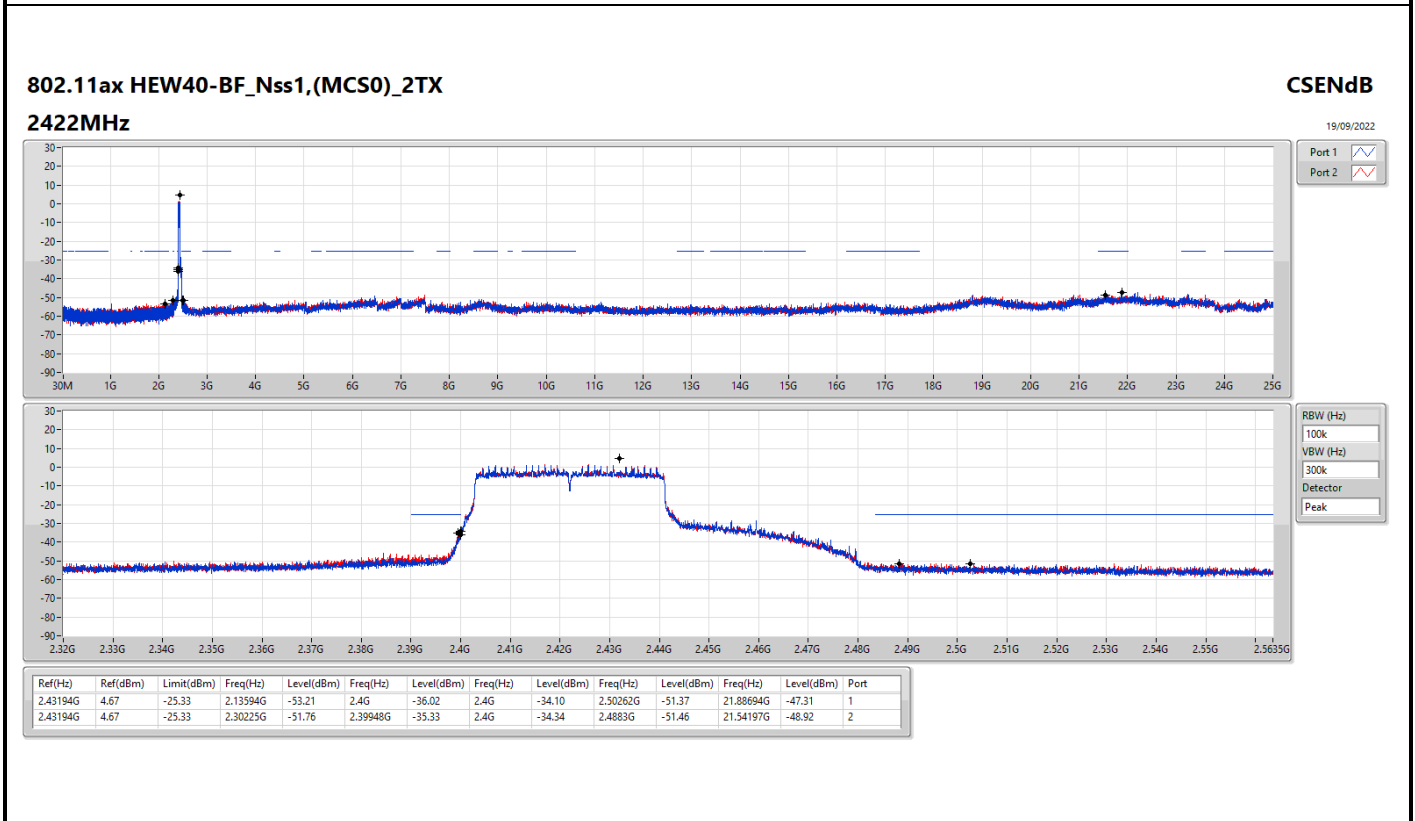
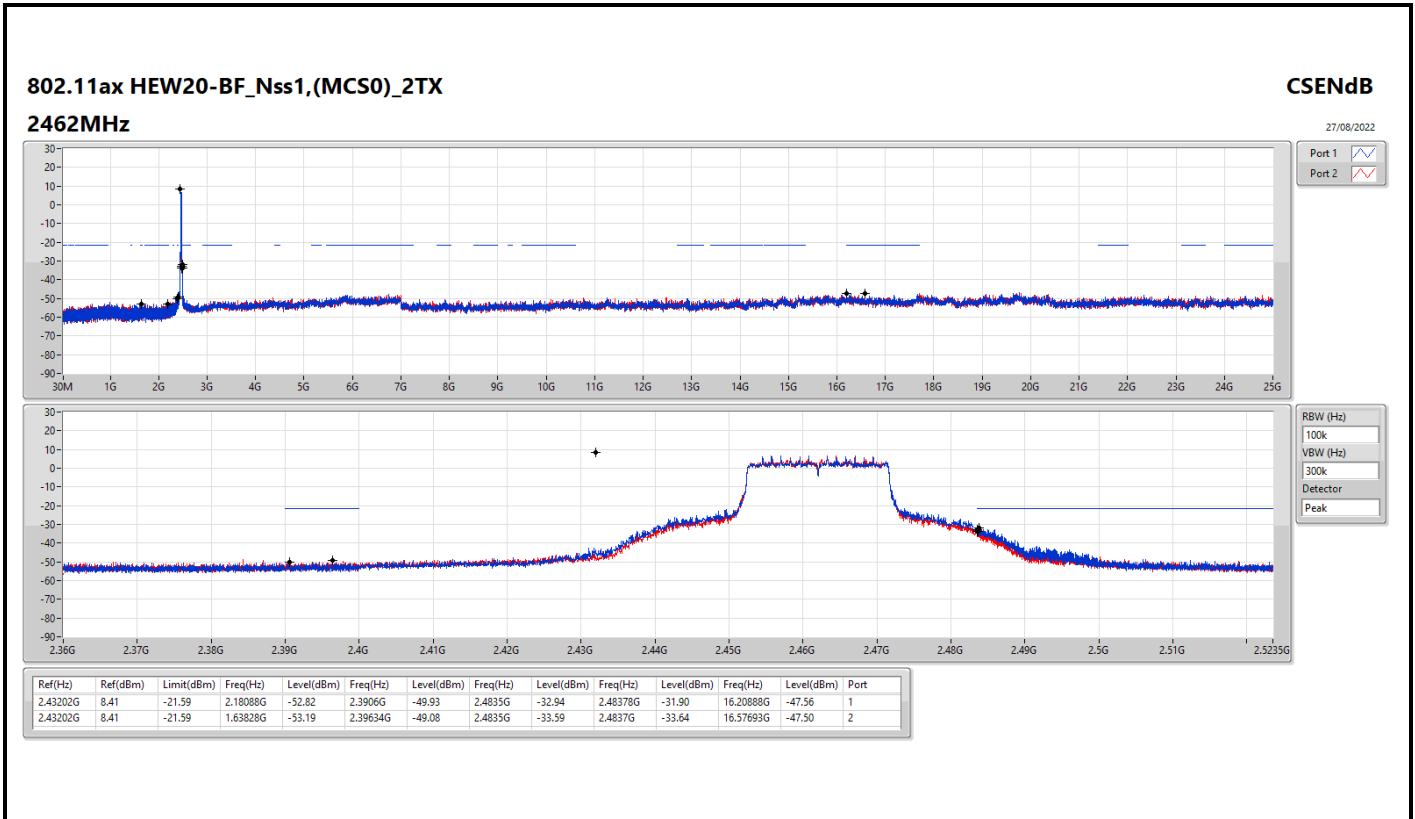
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.43202G	8.41	-21.59	2.30874G	-52.55	2.39946G	-28.73	2.4G	-32.49	2.48502G	-50.59	15.20025G	-48.04	1
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.43194G	4.67	-25.33	2.30426G	-51.24	2.39948G	-30.12	2.4G	-34.23	2.48418G	-38.34	21.64574G	-48.23	2

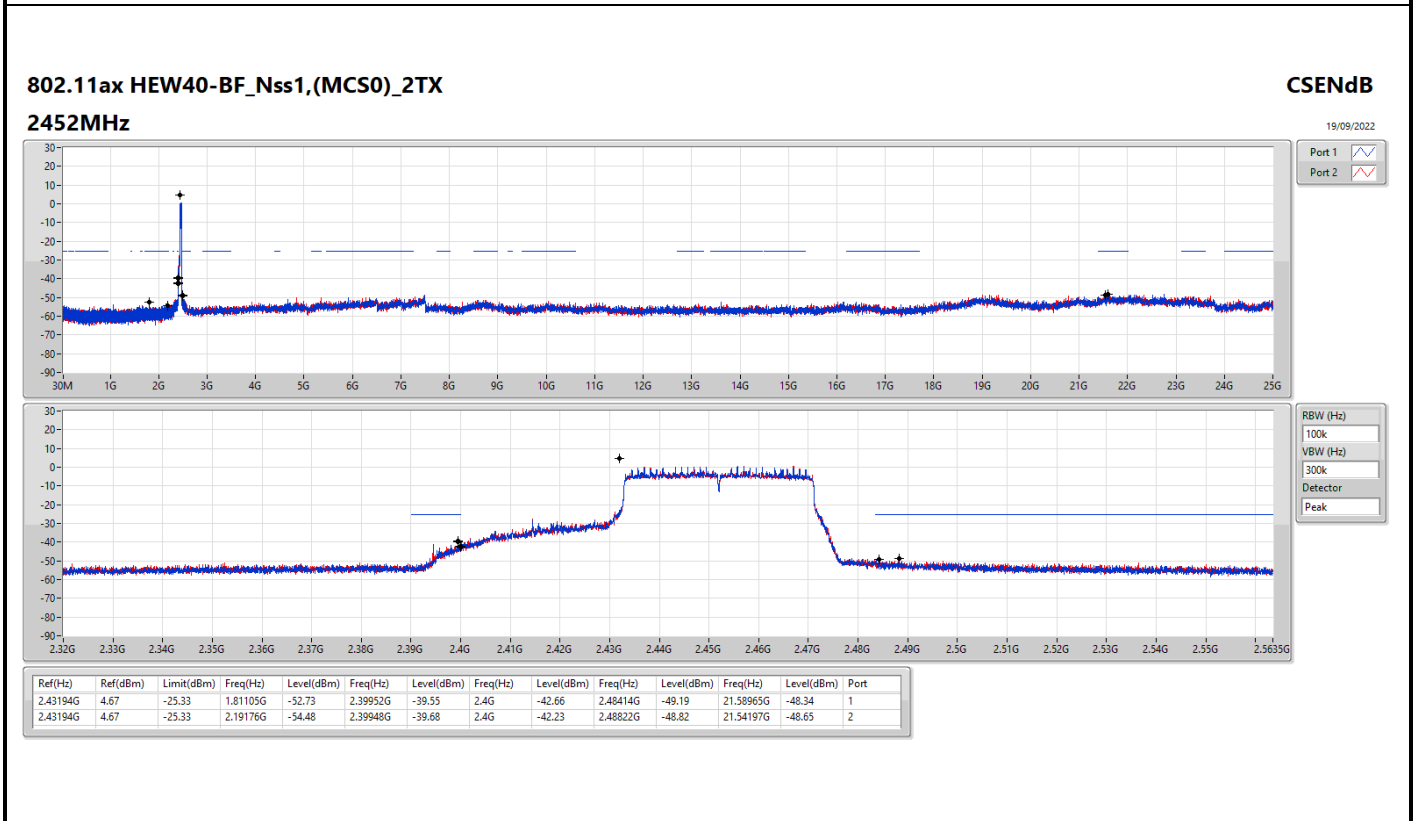
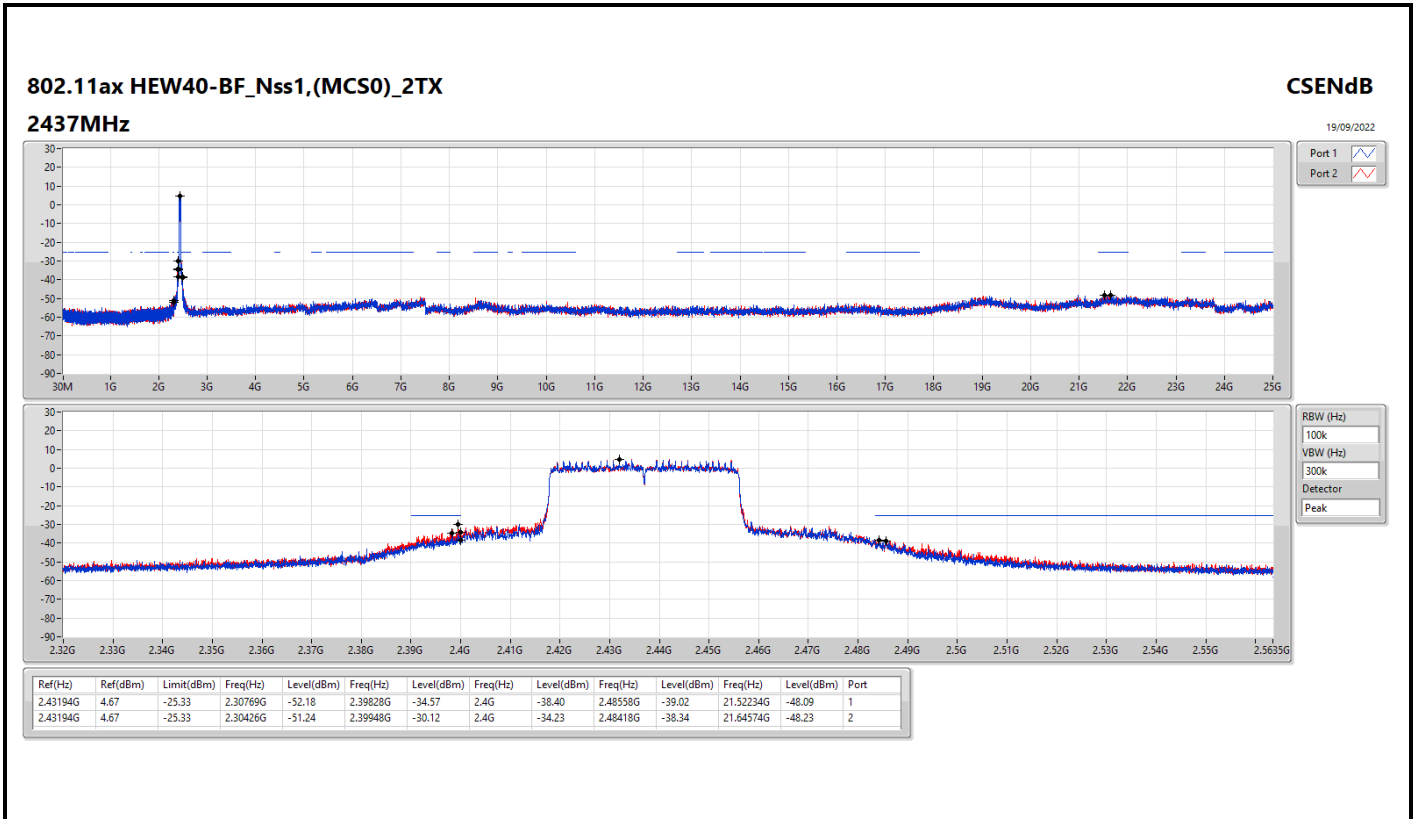


Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43202G	8.41	-21.59	2.30874G	-52.55	2.39946G	-28.73	2.4G	-32.49	2.48502G	-50.59	15.20025G	-48.04	1
2412MHz	Pass	2.43202G	8.41	-21.59	1.85614G	-52.28	2.3997G	-30.90	2.4G	-34.95	2.5046G	-51.45	6.97104G	-47.62	2
2437MHz	Pass	2.43202G	8.41	-21.59	2.30583G	-52.26	2.3998G	-42.95	2.4G	-43.74	2.4856G	-46.02	17.67266G	-47.25	1
2437MHz	Pass	2.43202G	8.41	-21.59	2.18845G	-53.30	2.39824G	-44.76	2.4G	-45.34	2.48394G	-47.48	17.01241G	-47.16	2
2462MHz	Pass	2.43202G	8.41	-21.59	2.18088G	-52.82	2.3906G	-49.93	2.4835G	-32.94	2.48378G	-31.90	16.20888G	-47.56	1
2462MHz	Pass	2.43202G	8.41	-21.59	1.63828G	-53.19	2.39634G	-49.08	2.4835G	-33.59	2.4837G	-33.64	16.57693G	-47.50	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43194G	4.67	-25.33	2.13594G	-53.21	2.4G	-36.02	2.4G	-34.10	2.50262G	-51.37	21.88694G	-47.31	1
2422MHz	Pass	2.43194G	4.67	-25.33	2.30225G	-51.76	2.39948G	-35.33	2.4G	-34.34	2.4883G	-51.46	21.54197G	-48.92	2
2437MHz	Pass	2.43194G	4.67	-25.33	2.30769G	-52.18	2.39828G	-34.57	2.4G	-38.40	2.48558G	-39.02	21.52234G	-48.09	1
2437MHz	Pass	2.43194G	4.67	-25.33	2.30426G	-51.24	2.39948G	-30.12	2.4G	-34.23	2.48418G	-38.34	21.64574G	-48.23	2
2452MHz	Pass	2.43194G	4.67	-25.33	1.81105G	-52.73	2.39952G	-39.55	2.4G	-42.66	2.48414G	-49.19	21.58965G	-48.34	1
2452MHz	Pass	2.43194G	4.67	-25.33	2.19176G	-54.48	2.39948G	-39.68	2.4G	-42.23	2.48822G	-48.82	21.54197G	-48.65	2







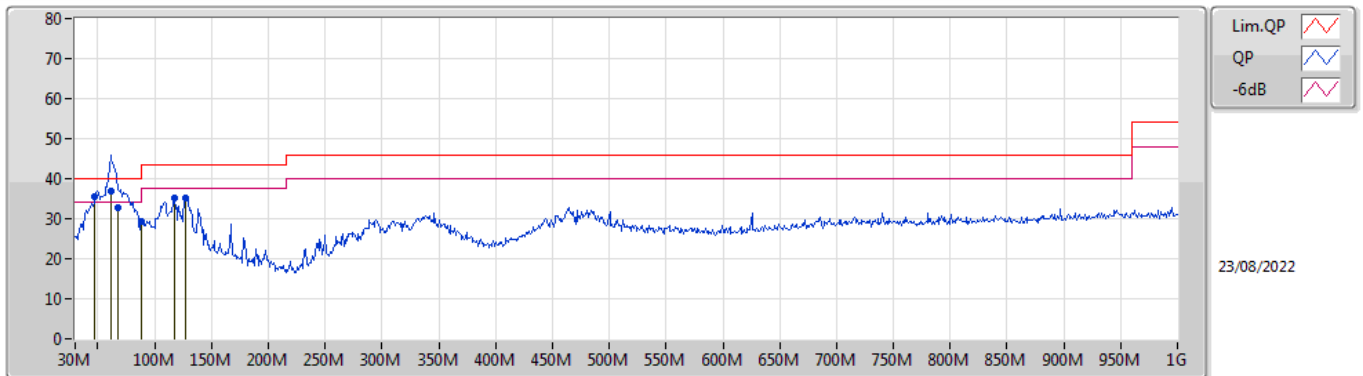


**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	61.04M	36.91	40.00	-3.09	Vertical

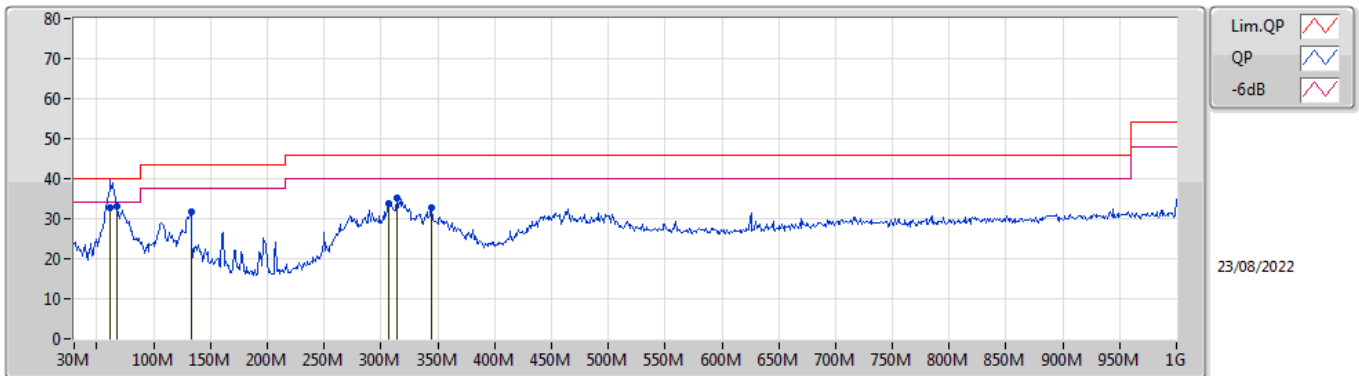


Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	47.46M	35.43	40.00	-4.57	-15.88	3	Vertical	333	1.25	-	51.31	14.91	1.05	31.84
QP	61.04M	36.91	40.00	-3.09	-18.49	3	Vertical	323	1.00	"Worst"	55.40	12.23	1.20	31.92
QP	67.83M	32.70	40.00	-7.30	-18.50	3	Vertical	131	1.00	-	51.20	12.19	1.26	31.95
PK	88M	29.43	43.50	-14.07	-16.34	3	Vertical	359	1.00	-	45.77	14.15	1.46	31.95
PK	117.3M	35.07	43.50	-8.43	-12.41	3	Vertical	270	1.00	-	47.48	17.97	1.59	31.97
PK	127M	35.28	43.50	-8.22	-12.57	3	Vertical	331	1.00	-	47.85	17.75	1.67	31.99

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	62.01M	32.69	40.00	-7.31	-18.51	3	Horizontal	132	2.00	-	51.20	12.21	1.20	31.92
PK	67.83M	32.94	40.00	-7.06	-18.50	3	Horizontal	185	3.00	"Worst"	51.44	12.19	1.26	31.95
PK	132.82M	31.73	43.50	-11.77	-12.78	3	Horizontal	235	1.25	-	44.51	17.49	1.73	32.00
PK	306.45M	33.83	46.00	-12.17	-10.09	3	Horizontal	233	1.25	-	43.92	19.29	2.74	32.12
PK	314.21M	35.13	46.00	-10.87	-9.90	3	Horizontal	205	1.00	-	45.03	19.44	2.79	32.13
PK	344.28M	32.62	46.00	-13.38	-9.22	3	Horizontal	223	1.00	-	41.84	19.98	2.97	32.17

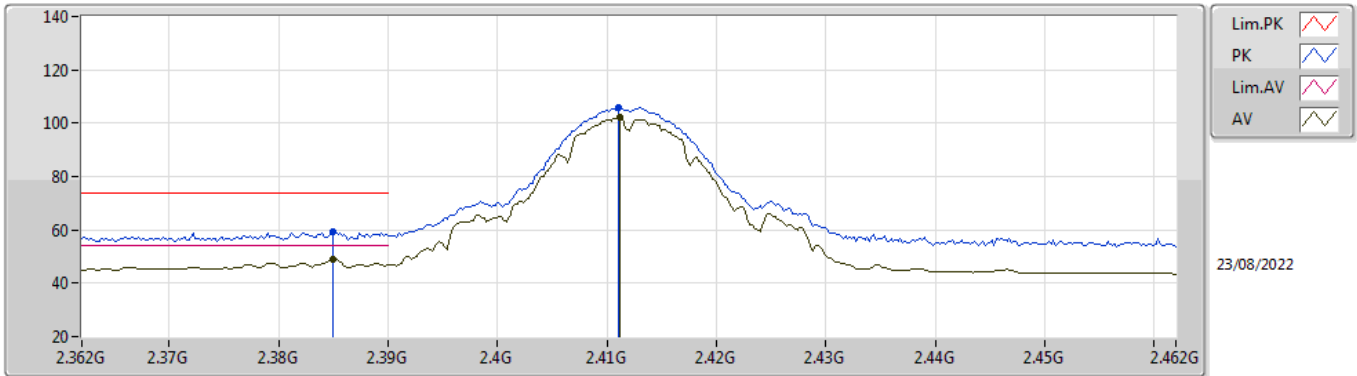


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.39G	53.88	54.00	-0.12	3	Horizontal	355	1.76	-

### 802.11b\_Nss1,(1Mbps)\_2TX

### 2412MHz\_TX

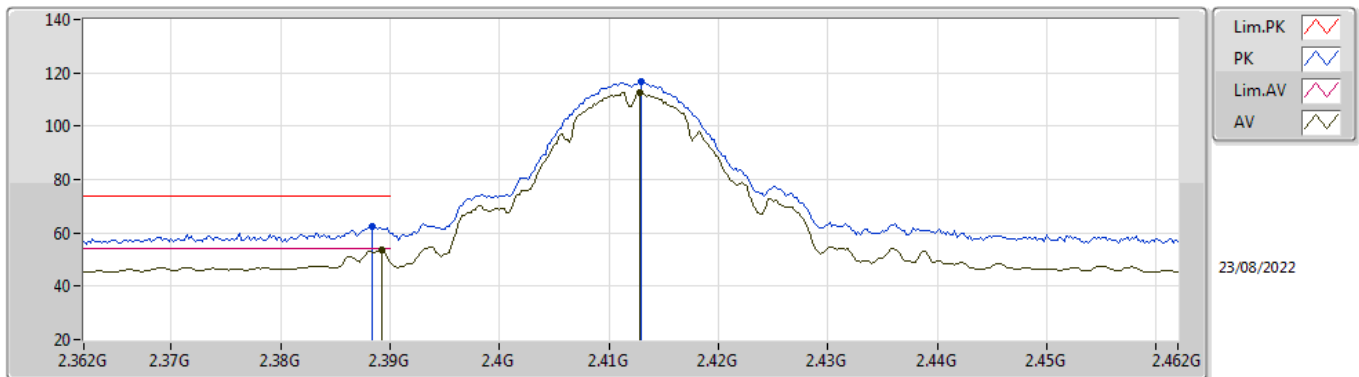


EUT\_X\_2TX  
Setting 90  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.385G	59.42	74.00	-14.58	28.08	3	Vertical	334	2.82	-	27.54	3.80	-
AV	2.385G	48.90	54.00	-5.10	17.56	3	Vertical	334	2.82	-	27.54	3.80	-
PK	2.411G	105.97	Inf	-Inf	74.58	3	Vertical	334	2.82	-	27.58	3.81	-
AV	2.4112G	102.27	Inf	-Inf	70.88	3	Vertical	334	2.82	-	27.58	3.81	-

### 802.11b\_Nss1,(1Mbps)\_2TX

### 2412MHz\_TX

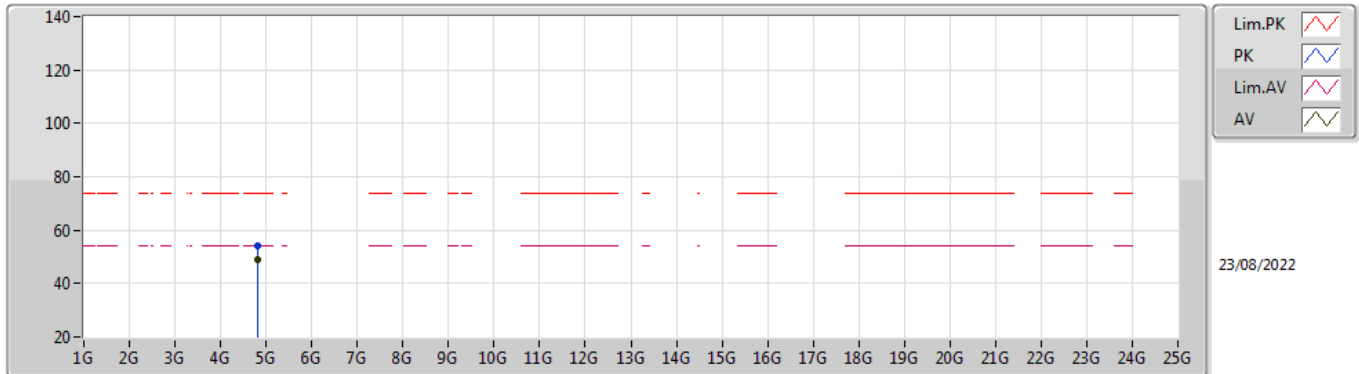


EUT\_X\_2TX  
Setting 90  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	62.49	74.00	-11.51	31.14	3	Horizontal	236	1.64	-	27.55	3.80	-
AV	2.3892G	53.68	54.00	-0.32	22.32	3	Horizontal	236	1.64	-	27.56	3.80	-
PK	2.413G	116.60	Inf	-Inf	85.22	3	Horizontal	236	1.64	-	27.57	3.81	-
AV	2.4128G	112.43	Inf	-Inf	81.05	3	Horizontal	236	1.64	-	27.57	3.81	-

### 802.11b\_Nss1,(1Mbps)\_2TX

### 2412MHz\_TX

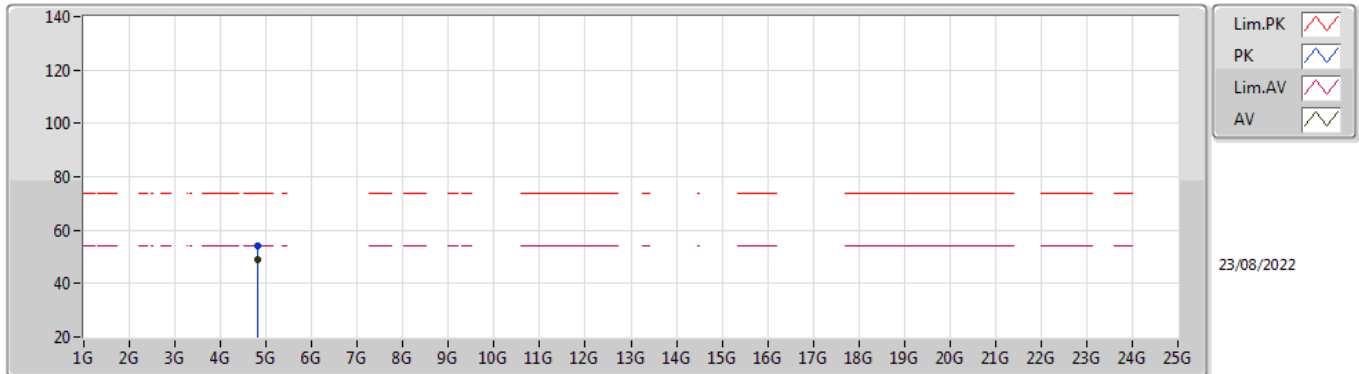


EUT X\_2TX  
Setting 90  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82404G	54.00	74.00	-20.00	48.14	3	Vertical	248	2.49	-	32.45	6.30	32.89
AV	4.82397G	48.72	54.00	-5.28	42.86	3	Vertical	248	2.49	-	32.45	6.30	32.89

### 802.11b\_Nss1,(1Mbps)\_2TX

### 2412MHz\_TX

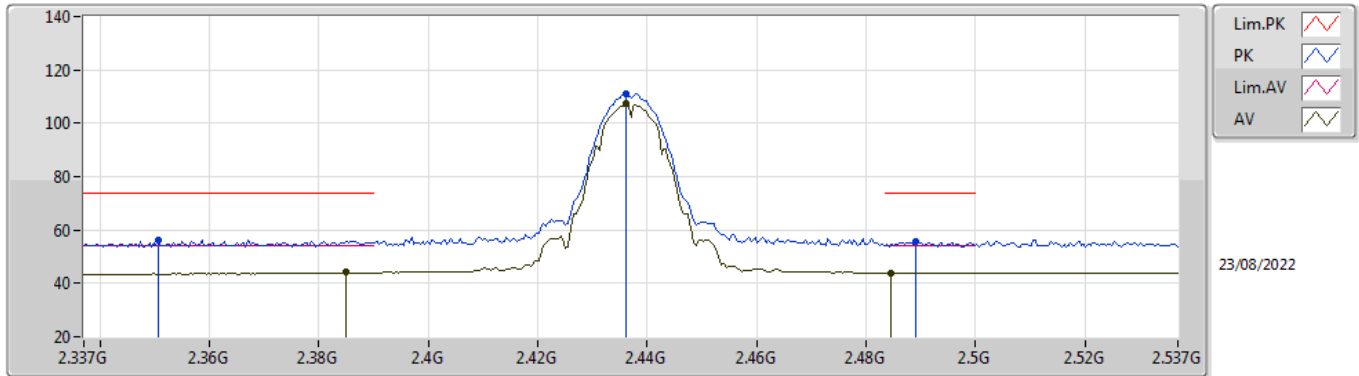


EUT X\_2TX  
Setting 90  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82401G	54.32	74.00	-19.68	48.46	3	Horizontal	7	1.75	-	32.45	6.30	32.89
AV	4.82398G	49.14	54.00	-4.86	43.28	3	Horizontal	7	1.75	-	32.45	6.30	32.89

### 802.11b\_Nss1,(1Mbps)\_2TX

### 2437MHz\_TX



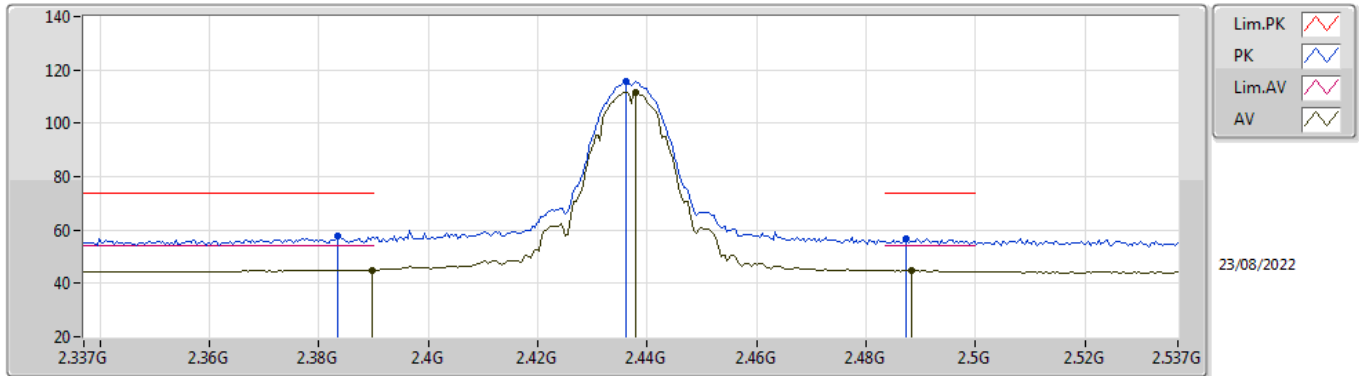
EUT\_X\_2TX  
Setting 82  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3506G	56.02	74.00	-17.98	24.82	3	Vertical	223	1.28	-	27.40	3.80	-
AV	2.385G	44.07	54.00	-9.93	12.73	3	Vertical	223	1.28	-	27.54	3.80	-
PK	2.4362G	111.11	Inf	-Inf	79.76	3	Vertical	223	1.28	-	27.53	3.82	-
AV	2.4362G	107.36	Inf	-Inf	76.01	3	Vertical	223	1.28	-	27.53	3.82	-
PK	2.489G	55.66	74.00	-18.34	24.09	3	Vertical	223	1.28	-	27.73	3.84	-
AV	2.4846G	43.91	54.00	-10.09	12.36	3	Vertical	223	1.28	-	27.71	3.84	-



### 802.11b\_Nss1,(1Mbps)\_2TX

### 2437MHz\_TX

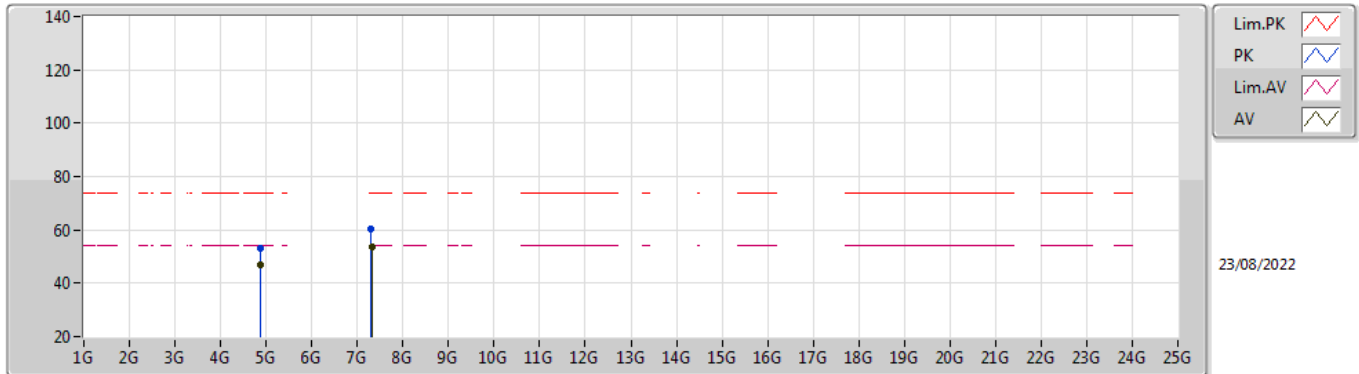


EUT\_X\_2TX  
Setting 82  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3834G	57.83	74.00	-16.17	26.50	3	Horizontal	0	1.93	-	27.53	3.80	-
AV	2.3898G	45.03	54.00	-8.97	13.67	3	Horizontal	0	1.93	-	27.56	3.80	-
PK	2.4362G	115.61	Inf	-Inf	84.26	3	Horizontal	0	1.93	-	27.53	3.82	-
AV	2.4378G	111.60	Inf	-Inf	80.26	3	Horizontal	0	1.93	-	27.52	3.82	-
PK	2.4874G	56.89	74.00	-17.11	25.33	3	Horizontal	0	1.93	-	27.72	3.84	-
AV	2.4882G	44.73	54.00	-9.27	13.16	3	Horizontal	0	1.93	-	27.73	3.84	-

### 802.11b\_Nss1,(1Mbps)\_2TX

### 2437MHz\_TX

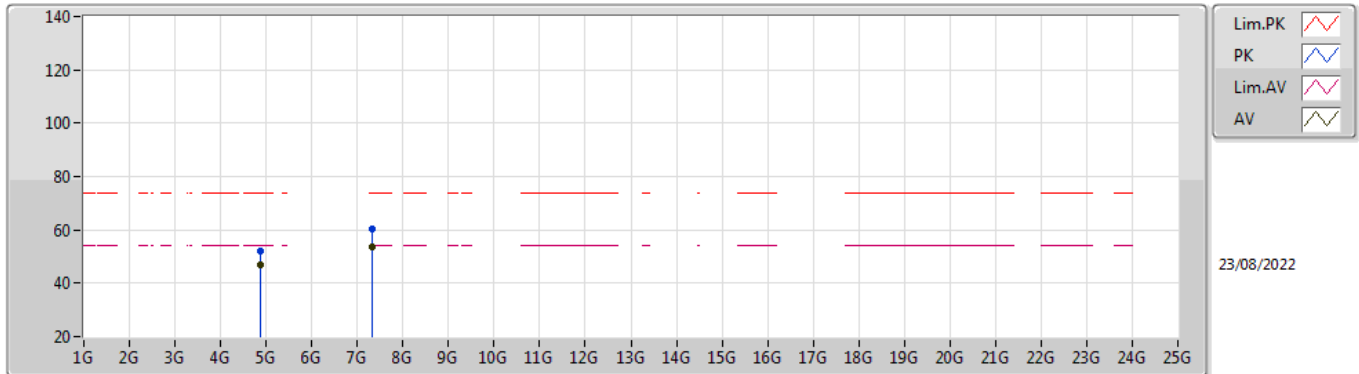


EUT\_X\_2TX  
Setting 82  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87393G	52.85	74.00	-21.15	46.88	3	Vertical	140	1.63	-	32.55	6.30	32.88
AV	4.87399G	46.67	54.00	-7.33	40.70	3	Vertical	140	1.63	-	32.55	6.30	32.88
PK	7.31012G	60.47	74.00	-13.53	49.06	3	Vertical	179	2.70	-	37.28	7.31	33.18
AV	7.31024G	53.67	54.00	-0.33	42.26	3	Vertical	179	2.70	-	37.28	7.31	33.18

### 802.11b\_Nss1,(1Mbps)\_2TX

### 2437MHz\_TX

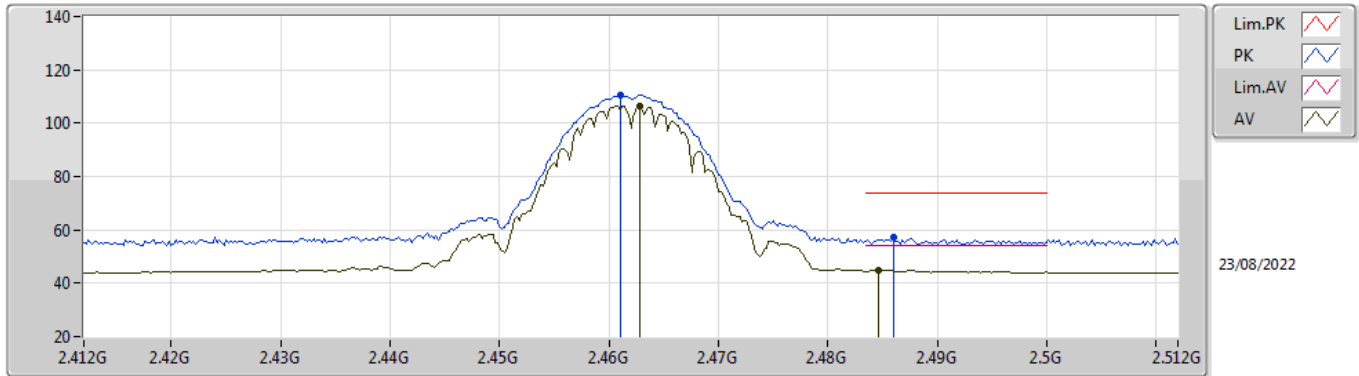


EUT\_X\_2TX  
Setting 82  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87393G	52.21	74.00	-21.79	46.24	3	Horizontal	352	2.45	-	32.55	6.30	32.88
AV	4.87399G	46.76	54.00	-7.24	40.79	3	Horizontal	352	2.45	-	32.55	6.30	32.88
PK	7.31202G	60.09	74.00	-13.91	48.68	3	Horizontal	358	2.46	-	37.28	7.31	33.18
AV	7.31026G	53.61	54.00	-0.39	42.20	3	Horizontal	358	2.46	-	37.28	7.31	33.18

### 802.11b\_Nss1,(1Mbps)\_2TX

### 2462MHz\_TX

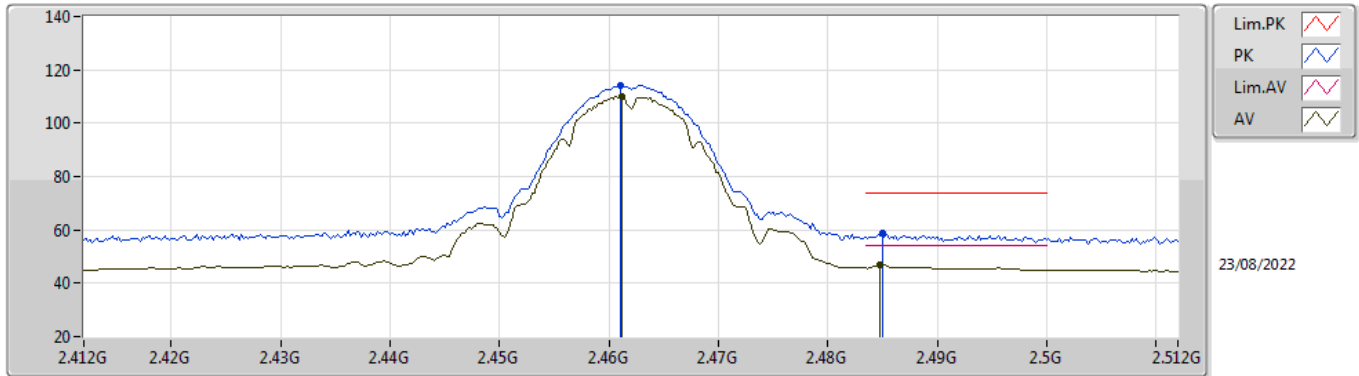


EUT\_X\_2TX  
Setting 82  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	110.68	Inf	-Inf	79.28	3	Vertical	222	1.23	-	27.57	3.83	-
AV	2.4628G	106.58	Inf	-Inf	75.17	3	Vertical	222	1.23	-	27.58	3.83	-
PK	2.486G	57.00	74.00	-17.00	25.44	3	Vertical	222	1.23	-	27.72	3.84	-
AV	2.4846G	44.95	54.00	-9.05	13.40	3	Vertical	222	1.23	-	27.71	3.84	-

### 802.11b\_Nss1,(1Mbps)\_2TX

### 2462MHz\_TX

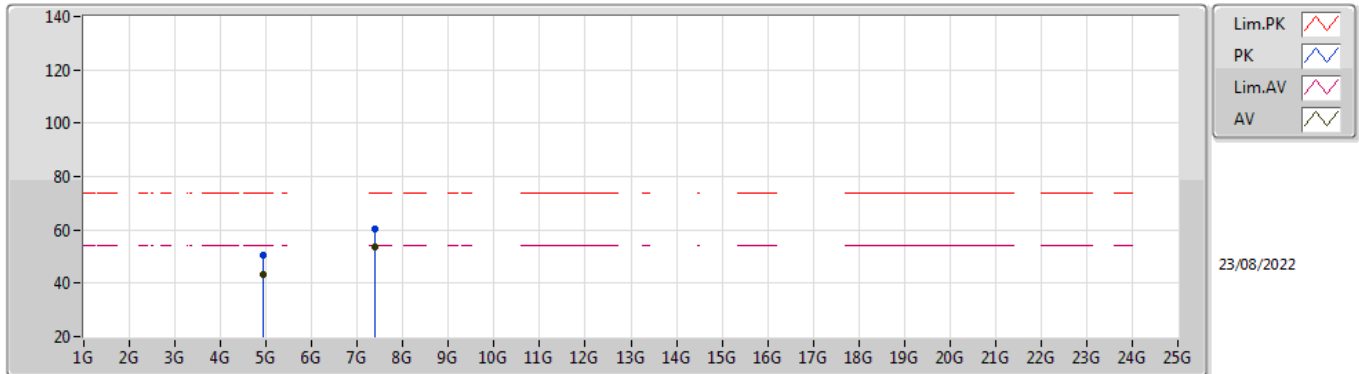


EUT\_X\_2TX  
Setting 82  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	114.39	Inf	-Inf	82.99	3	Horizontal	0	1.89	-	27.57	3.83	-
AV	2.4612G	110.20	Inf	-Inf	78.80	3	Horizontal	0	1.89	-	27.57	3.83	-
PK	2.485G	58.58	74.00	-15.42	27.03	3	Horizontal	0	1.89	-	27.71	3.84	-
AV	2.4848G	46.80	54.00	-7.20	15.25	3	Horizontal	0	1.89	-	27.71	3.84	-

### 802.11b\_Nss1,(1Mbps)\_2TX

### 2462MHz\_TX

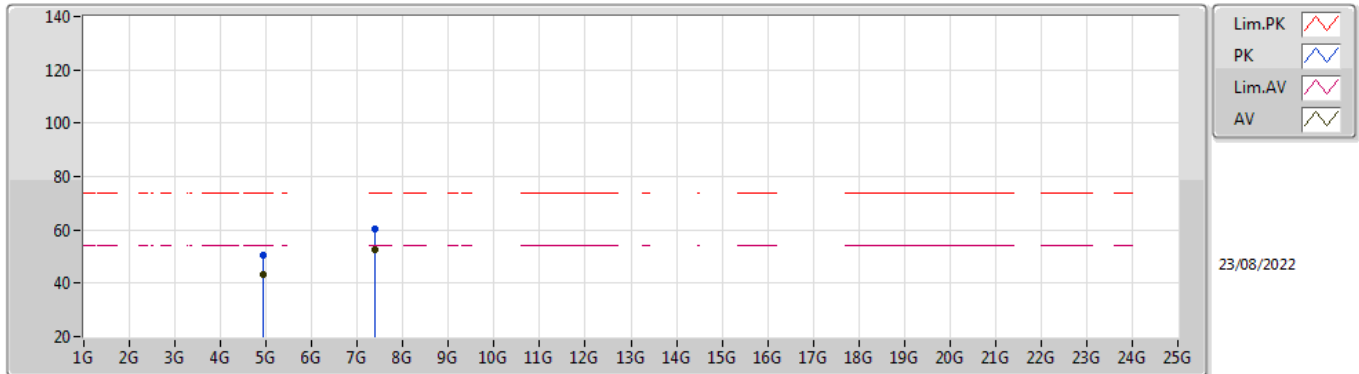


EUT\_X\_2TX  
Setting 82  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9241G	50.67	74.00	-23.33	44.59	3	Vertical	19	1.80	-	32.65	6.30	32.87
AV	4.92397G	43.52	54.00	-10.48	37.44	3	Vertical	19	1.80	-	32.65	6.30	32.87
PK	7.38686G	60.16	74.00	-13.84	48.79	3	Vertical	178	2.76	-	37.20	7.39	33.22
AV	7.38676G	53.58	54.00	-0.42	42.21	3	Vertical	178	2.76	-	37.20	7.39	33.22

### 802.11b\_Nss1,(1Mbps)\_2TX

### 2462MHz\_TX

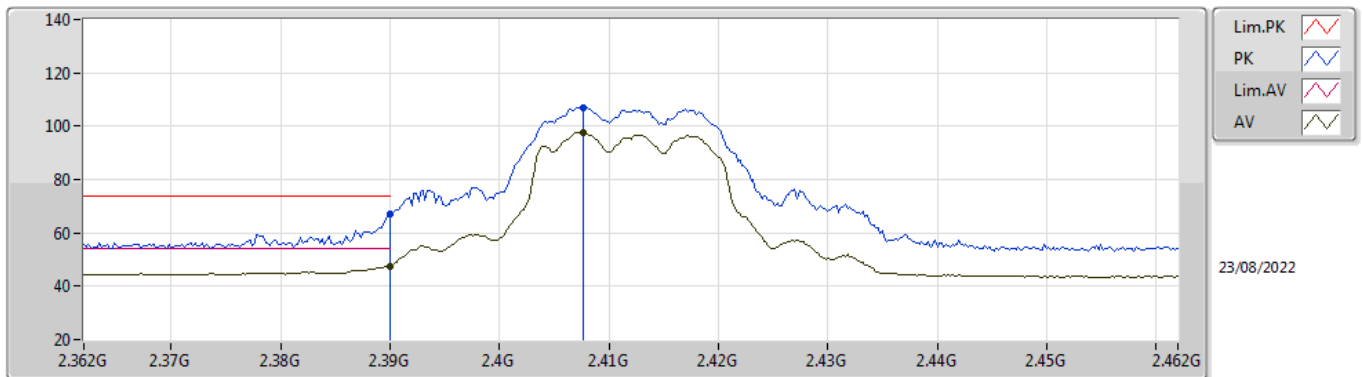


EUT\_X\_2TX  
Setting 82  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92388G	50.33	74.00	-23.67	44.25	3	Horizontal	64	2.00	-	32.65	6.30	32.87
AV	4.924G	43.46	54.00	-10.54	37.38	3	Horizontal	64	2.00	-	32.65	6.30	32.87
PK	7.38448G	60.22	74.00	-13.78	48.86	3	Horizontal	355	2.86	-	37.20	7.38	33.22
AV	7.3853G	52.35	54.00	-1.65	40.98	3	Horizontal	355	2.86	-	37.20	7.39	33.22

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2412MHz\_TX



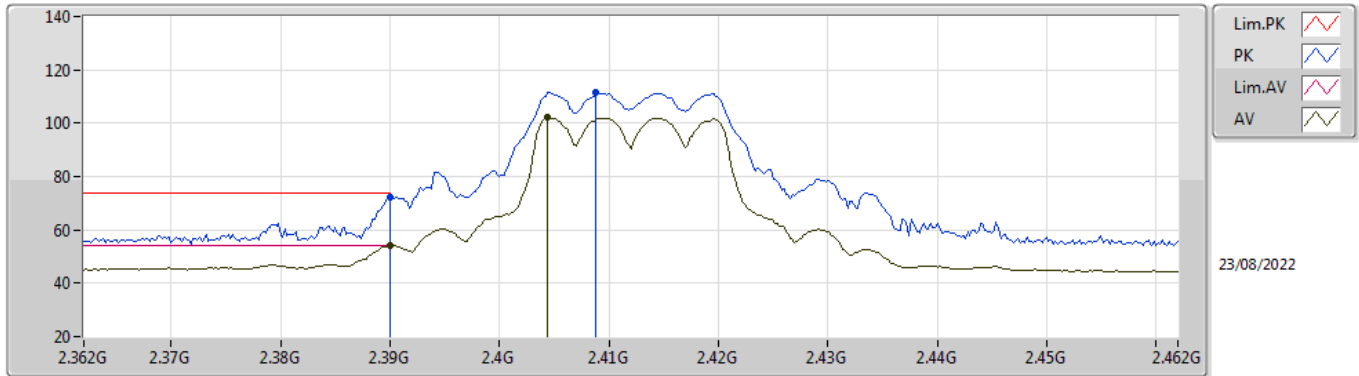
EUT\_X\_2TX  
Setting 65  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	66.98	74.00	-7.02	35.62	3	Vertical	330	2.54	-	27.56	3.80	-
AV	2.39G	47.41	54.00	-6.59	16.05	3	Vertical	330	2.54	-	27.56	3.80	-
PK	2.4076G	107.10	Inf	-Inf	75.72	3	Vertical	330	2.54	-	27.58	3.80	-
AV	2.4076G	97.75	Inf	-Inf	66.37	3	Vertical	330	2.54	-	27.58	3.80	-



### 802.11g\_Nss1,(6Mbps)\_2TX

### 2412MHz\_TX

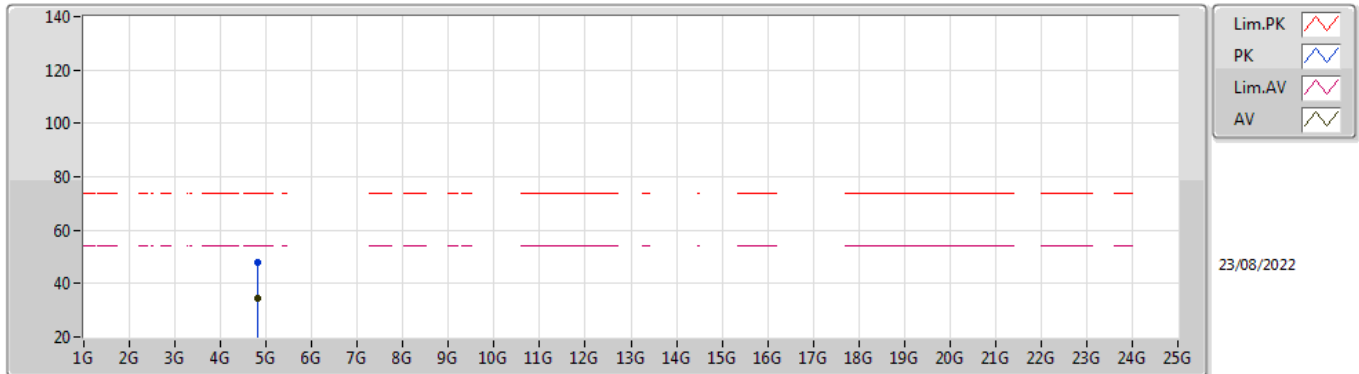


EUT\_X\_2TX  
Setting 65  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	72.38	74.00	-1.62	41.02	3	Horizontal	355	1.76	-	27.56	3.80	-
AV	2.39G	53.88	54.00	-0.12	22.52	3	Horizontal	355	1.76	-	27.56	3.80	-
PK	2.4088G	111.50	Inf	-Inf	80.12	3	Horizontal	355	1.76	-	27.58	3.80	-
AV	2.4044G	102.09	Inf	-Inf	70.70	3	Horizontal	355	1.76	-	27.59	3.80	-

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2412MHz\_TX

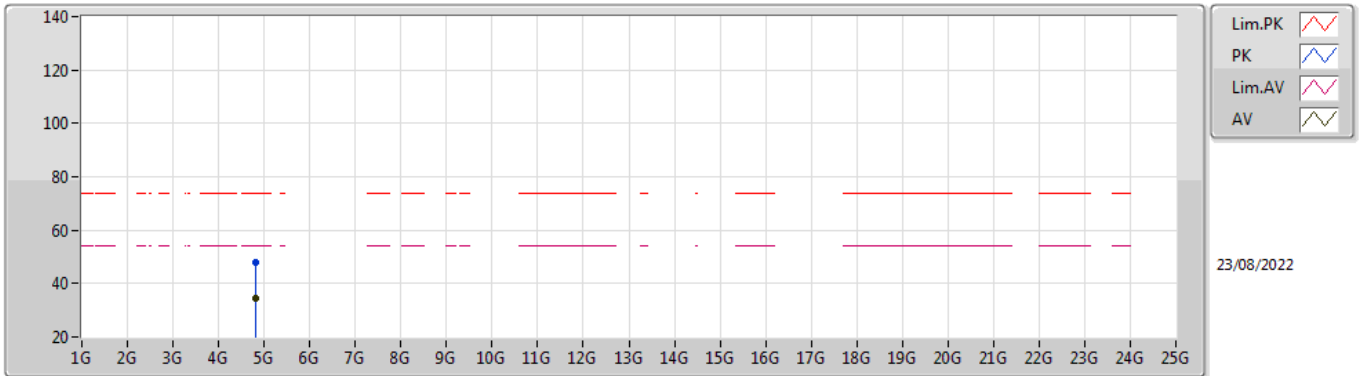


EUT X\_2TX  
Setting 65  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82664G	47.74	74.00	-26.26	41.87	3	Vertical	15	1.50	-	32.45	6.30	32.88
AV	4.82162G	34.49	54.00	-19.51	28.64	3	Vertical	15	1.50	-	32.44	6.30	32.89

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2412MHz\_TX

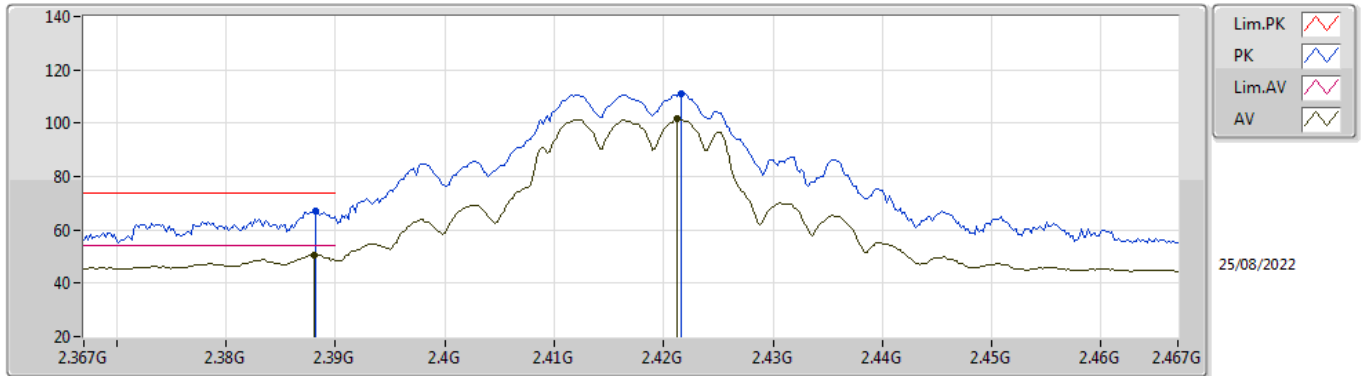


EUT X\_2TX  
Setting 65  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82134G	47.99	74.00	-26.01	42.14	3	Horizontal	5	1.69	-	32.44	6.30	32.89
AV	4.82592G	34.38	54.00	-19.62	28.51	3	Horizontal	5	1.69	-	32.45	6.30	32.88

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2417MHz\_TX

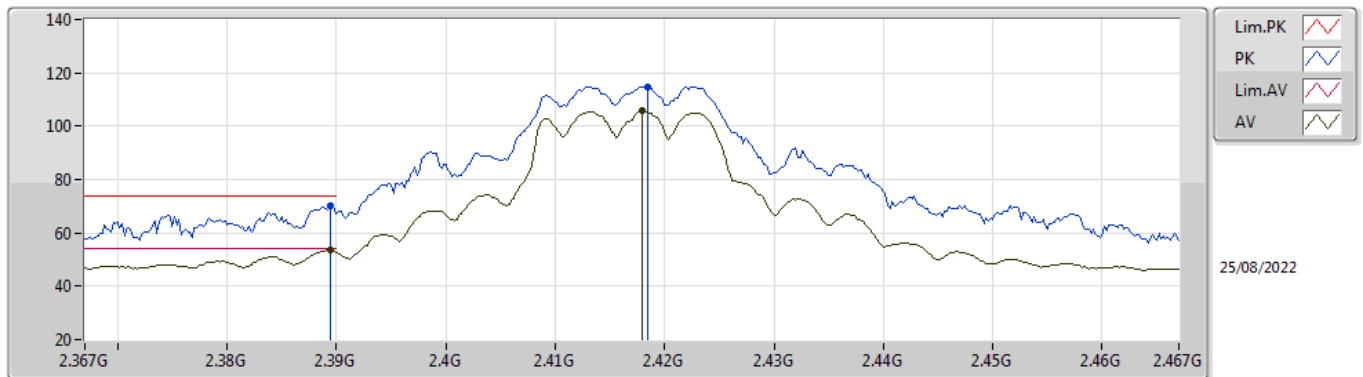


EUT\_X\_2TX  
Setting 80  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	67.15	74.00	-6.85	35.80	3	Vertical	358	1.06	-	27.55	3.80	-
AV	2.388G	50.43	54.00	-3.57	19.08	3	Vertical	358	1.06	-	27.55	3.80	-
PK	2.4216G	110.98	Inf	-Inf	79.61	3	Vertical	358	1.06	-	27.56	3.81	-
AV	2.4212G	101.75	Inf	-Inf	70.38	3	Vertical	358	1.06	-	27.56	3.81	-

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2417MHz\_TX

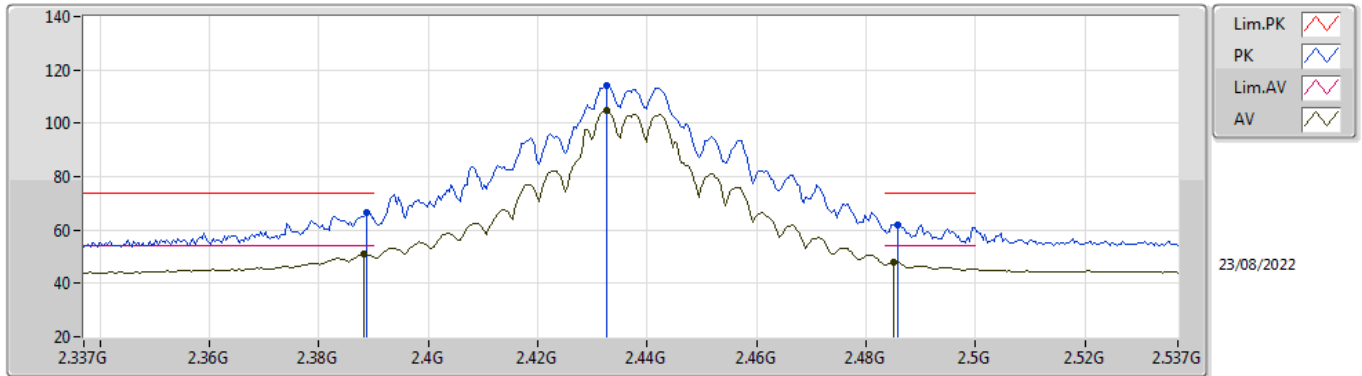


EUT\_X\_2TX  
Setting 80  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	70.04	74.00	-3.96	38.68	3	Horizontal	357	1.07	-	27.56	3.80	-
AV	2.3894G	53.55	54.00	-0.45	22.19	3	Horizontal	357	1.07	-	27.56	3.80	-
PK	2.4184G	114.84	Inf	-Inf	83.47	3	Horizontal	357	1.07	-	27.56	3.81	-
AV	2.418G	105.67	Inf	-Inf	74.30	3	Horizontal	357	1.07	-	27.56	3.81	-

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2437MHz\_TX

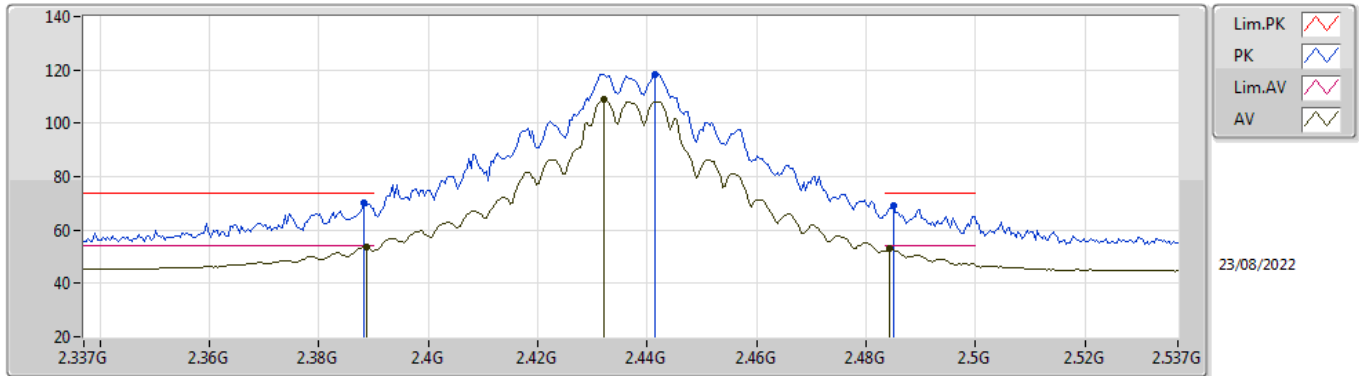


EUT\_X\_2TX  
Setting 95  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	66.80	74.00	-7.20	35.45	3	Vertical	225	1.26	-	27.55	3.80	-
AV	2.3882G	51.02	54.00	-2.98	19.67	3	Vertical	225	1.26	-	27.55	3.80	-
PK	2.4326G	114.20	Inf	-Inf	82.85	3	Vertical	225	1.26	-	27.53	3.82	-
AV	2.4326G	104.62	Inf	-Inf	73.27	3	Vertical	225	1.26	-	27.53	3.82	-
PK	2.4858G	62.12	74.00	-11.88	30.57	3	Vertical	225	1.26	-	27.71	3.84	-
AV	2.485G	48.05	54.00	-5.95	16.50	3	Vertical	225	1.26	-	27.71	3.84	-

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2437MHz\_TX

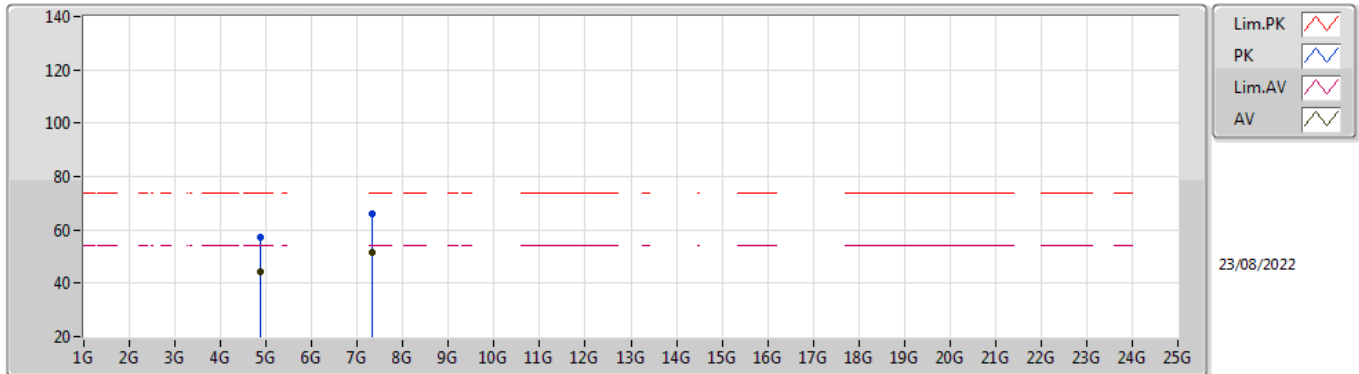


EUT\_X\_2TX  
Setting 95  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	70.28	74.00	-3.72	38.93	3	Horizontal	0	1.91	-	27.55	3.80	-
AV	2.3886G	53.86	54.00	-0.14	22.51	3	Horizontal	0	1.91	-	27.55	3.80	-
PK	2.4414G	118.47	Inf	-Inf	87.13	3	Horizontal	0	1.91	-	27.52	3.82	-
AV	2.4322G	108.95	Inf	-Inf	77.59	3	Horizontal	0	1.91	-	27.54	3.82	-
PK	2.485G	69.07	74.00	-4.93	37.52	3	Horizontal	0	1.91	-	27.71	3.84	-
AV	2.4842G	53.04	54.00	-0.96	21.49	3	Horizontal	0	1.91	-	27.71	3.84	-

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2437MHz\_TX



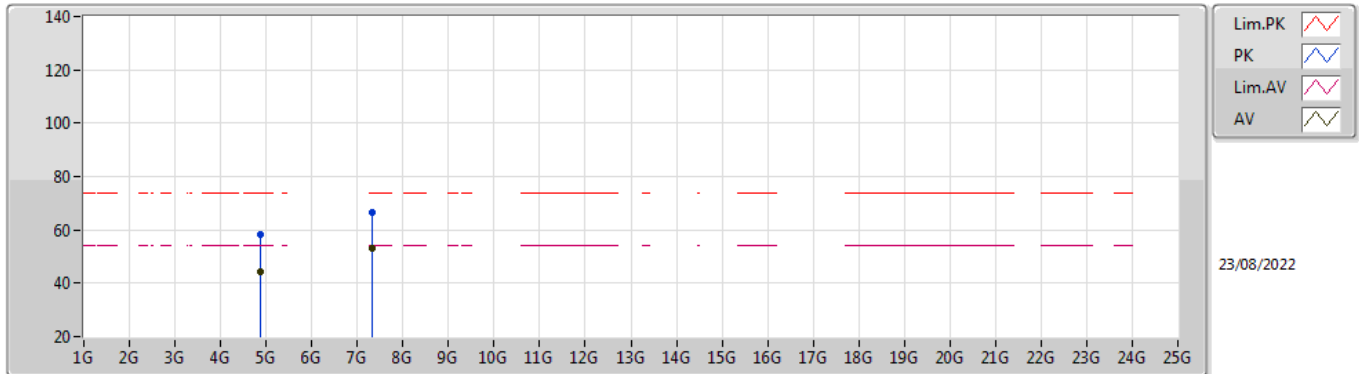
EUT\_X\_2TX  
Setting 95  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87884G	57.40	74.00	-16.60	51.41	3	Vertical	248	2.24	-	32.56	6.30	32.87
AV	4.87532G	44.15	54.00	-9.85	38.17	3	Vertical	248	2.24	-	32.55	6.30	32.87
PK	7.31518G	65.80	74.00	-8.20	54.39	3	Vertical	179	2.84	-	37.27	7.32	33.18
AV	7.31058G	51.73	54.00	-2.27	40.32	3	Vertical	179	2.84	-	37.28	7.31	33.18



### 802.11g\_Nss1,(6Mbps)\_2TX

### 2437MHz\_TX

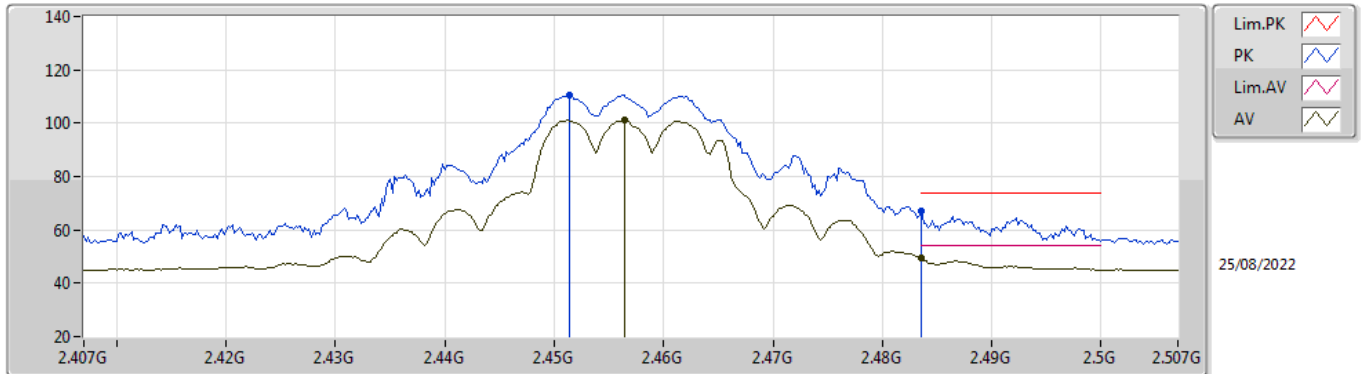


EUT\_X\_2TX  
Setting 95  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87344G	58.30	74.00	-15.70	52.33	3	Horizontal	61	2.94	-	32.55	6.30	32.88
AV	4.8732G	44.06	54.00	-9.94	38.09	3	Horizontal	61	2.94	-	32.55	6.30	32.88
PK	7.31516G	66.62	74.00	-7.38	55.21	3	Horizontal	354	2.38	-	37.27	7.32	33.18
AV	7.31068G	53.08	54.00	-0.92	41.67	3	Horizontal	354	2.38	-	37.28	7.31	33.18

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2457MHz\_TX

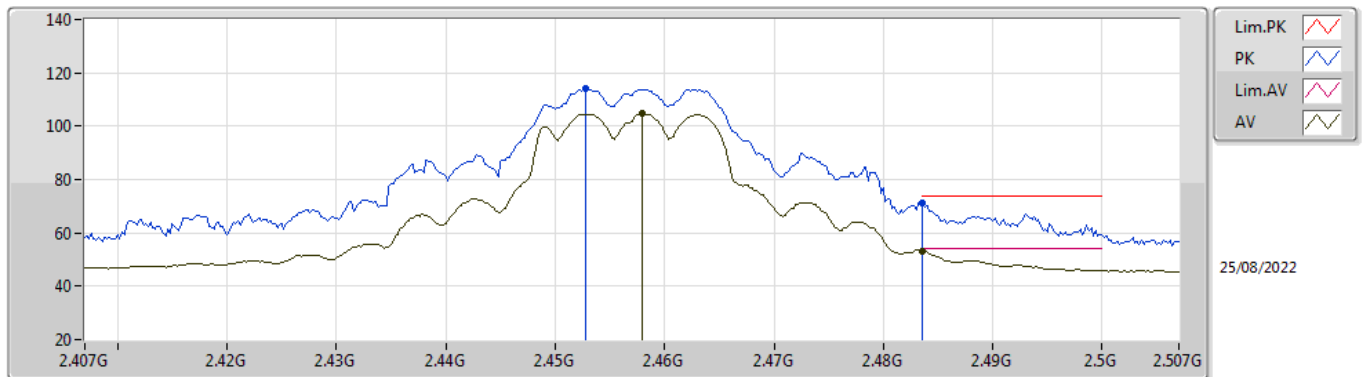


EUT\_X\_2TX  
Setting 81  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4514G	110.65	Inf	-Inf	79.31	3	Vertical	307	1.23	-	27.51	3.83	-
AV	2.4564G	101.11	Inf	-Inf	69.74	3	Vertical	307	1.23	-	27.54	3.83	-
PK	2.4836G	67.19	74.00	-6.81	35.65	3	Vertical	307	1.23	-	27.70	3.84	-
AV	2.4835G	49.69	54.00	-4.31	18.15	3	Vertical	307	1.23	-	27.70	3.84	-

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2457MHz\_TX

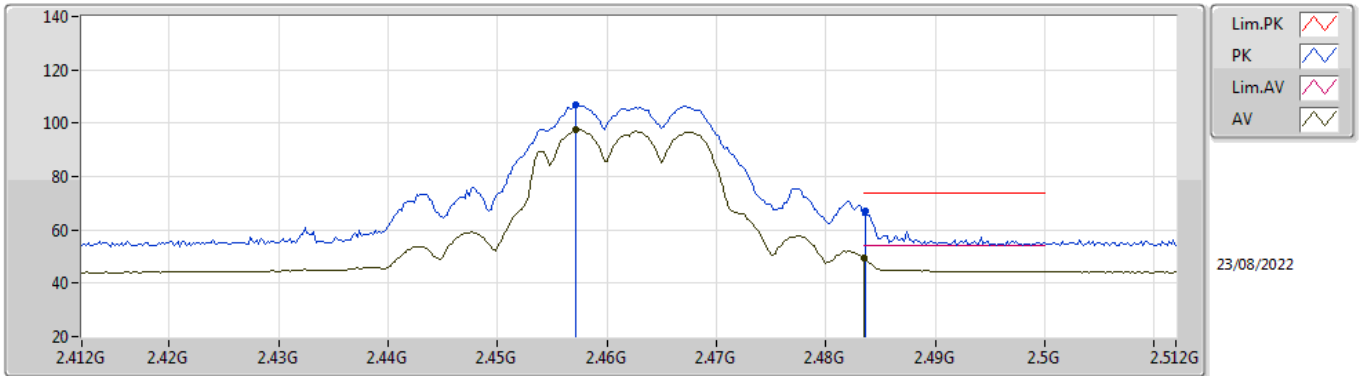


EUT\_X\_2TX  
Setting 81  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4528G	113.98	Inf	-Inf	82.63	3	Horizontal	356	1.09	-	27.52	3.83	-
AV	2.458G	104.81	Inf	-Inf	73.43	3	Horizontal	356	1.09	-	27.55	3.83	-
PK	2.4835G	71.42	74.00	-2.58	39.88	3	Horizontal	356	1.09	-	27.70	3.84	-
AV	2.4836G	53.13	54.00	-0.87	21.59	3	Horizontal	356	1.09	-	27.70	3.84	-

802.11g\_Nss1,(6Mbps)\_2TX

2462MHz\_TX

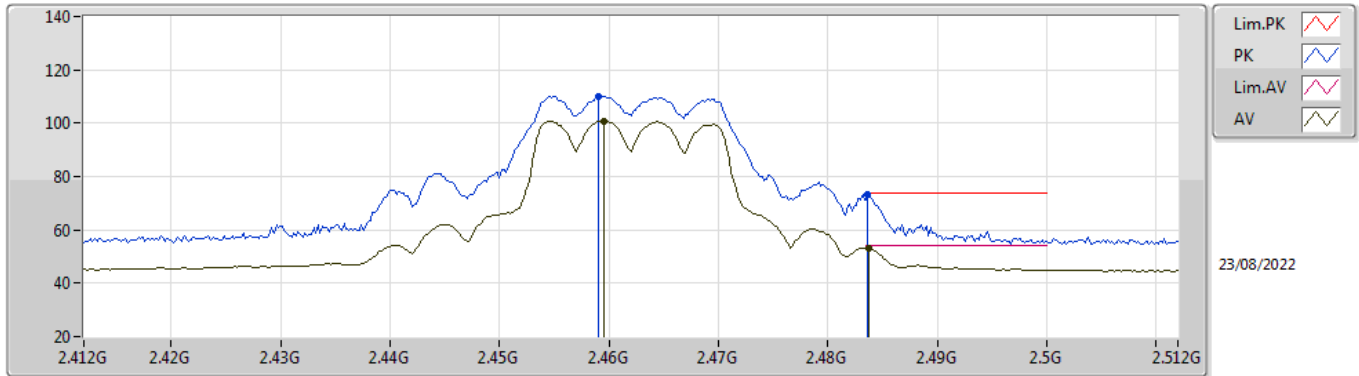


EUT X\_2TX  
Setting 66  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4572G	106.64	Inf	-Inf	75.27	3	Vertical	222	1.23	-	27.54	3.83	-
AV	2.4572G	97.42	Inf	-Inf	66.05	3	Vertical	222	1.23	-	27.54	3.83	-
PK	2.4836G	67.23	74.00	-6.77	35.69	3	Vertical	222	1.23	-	27.70	3.84	-
AV	2.4835G	49.33	54.00	-4.67	17.79	3	Vertical	222	1.23	-	27.70	3.84	-

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2462MHz\_TX

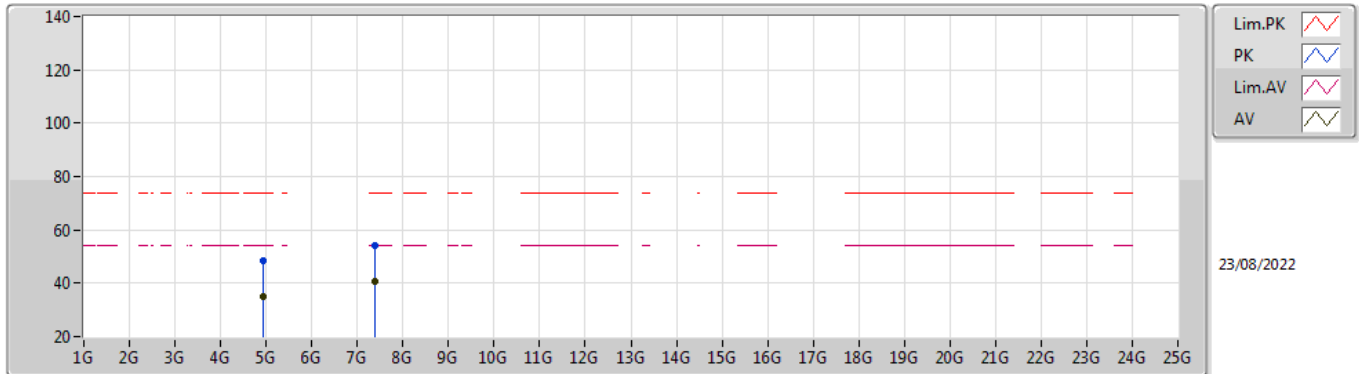


EUT\_X\_2TX  
Setting 66  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.459G	110.24	Inf	-Inf	78.86	3	Horizontal	0	1.91	-	27.55	3.83	-
AV	2.4596G	100.76	Inf	-Inf	69.37	3	Horizontal	0	1.91	-	27.56	3.83	-
PK	2.4836G	73.25	74.00	-0.75	41.71	3	Horizontal	0	1.91	-	27.70	3.84	-
AV	2.4838G	53.12	54.00	-0.88	21.58	3	Horizontal	0	1.91	-	27.70	3.84	-

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2462MHz\_TX

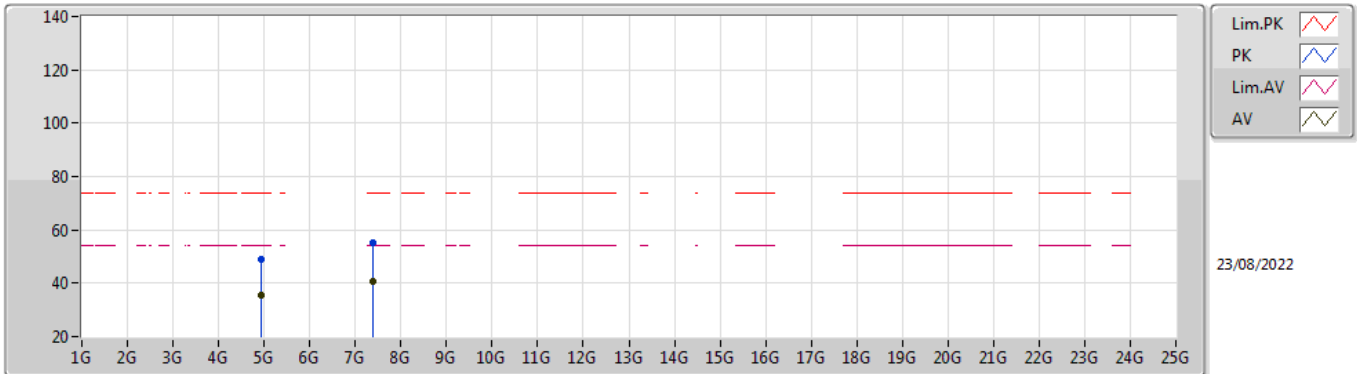


EUT\_X\_2TX  
Setting 66  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9235G	48.28	74.00	-25.72	42.20	3	Vertical	241	2.71	-	32.65	6.30	32.87
AV	4.92314G	35.10	54.00	-18.90	29.02	3	Vertical	241	2.71	-	32.65	6.30	32.87
PK	7.38006G	54.32	74.00	-19.68	42.96	3	Vertical	172	2.88	-	37.20	7.38	33.22
AV	7.38402G	40.68	54.00	-13.32	29.32	3	Vertical	172	2.88	-	37.20	7.38	33.22

### 802.11g\_Nss1,(6Mbps)\_2TX

### 2462MHz\_TX



EUT X\_2TX  
Setting 66  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92148G	48.96	74.00	-25.04	42.89	3	Horizontal	347	1.78	-	32.64	6.30	32.87
AV	4.92606G	35.63	54.00	-18.37	29.54	3	Horizontal	347	1.78	-	32.65	6.30	32.86
PK	7.38738G	55.01	74.00	-18.99	43.64	3	Horizontal	0	2.36	-	37.20	7.39	33.22
AV	7.38348G	40.77	54.00	-13.23	29.41	3	Horizontal	0	2.36	-	37.20	7.38	33.22



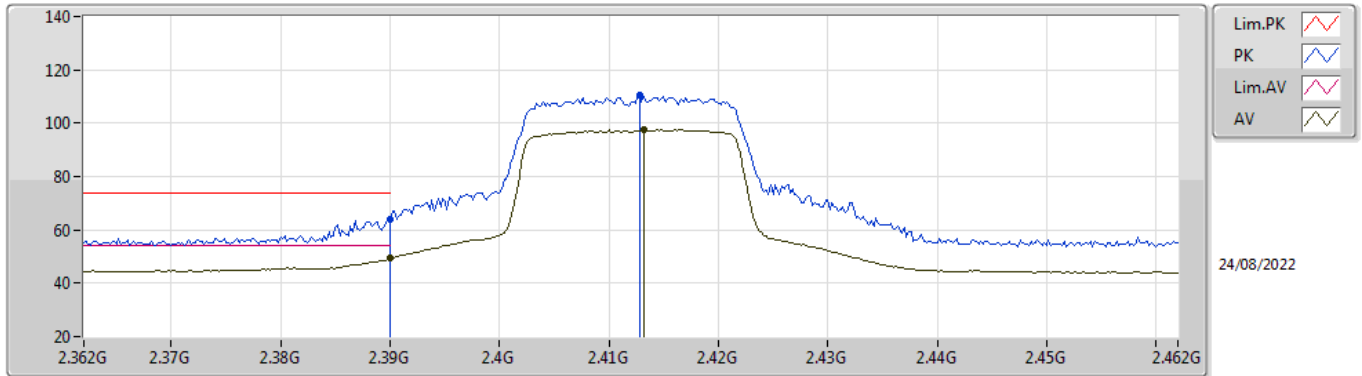
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	AV	2.3898G	53.98	54.00	-0.02	3	Horizontal	355	1.76	-



### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2412MHz\_TX

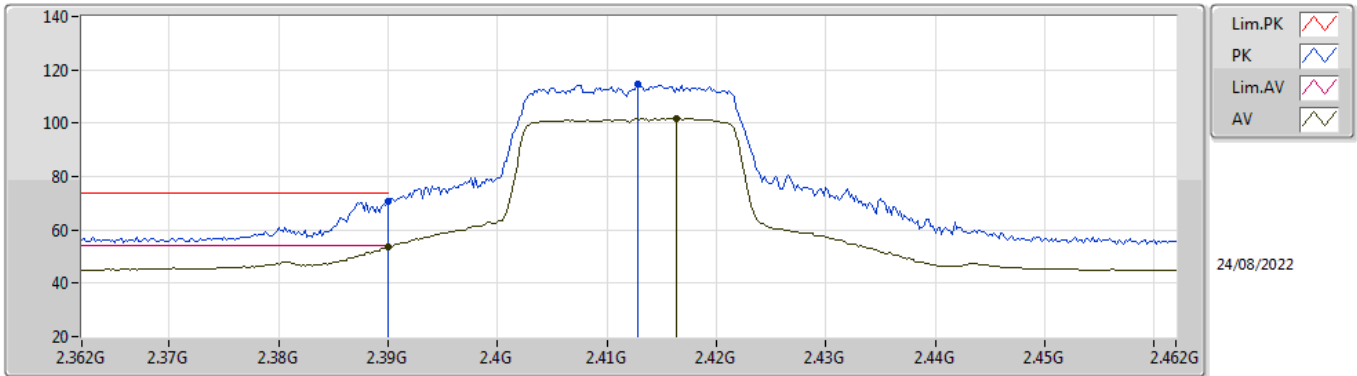


EUT\_X\_2TX  
Setting 63  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	63.91	74.00	-10.09	32.55	3	Vertical	360	1.04	-	27.56	3.80	-
AV	2.39G	49.31	54.00	-4.69	17.95	3	Vertical	360	1.04	-	27.56	3.80	-
PK	2.4128G	110.49	Inf	-Inf	79.11	3	Vertical	360	1.04	-	27.57	3.81	-
AV	2.4132G	97.42	Inf	-Inf	66.04	3	Vertical	360	1.04	-	27.57	3.81	-

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2412MHz\_TX

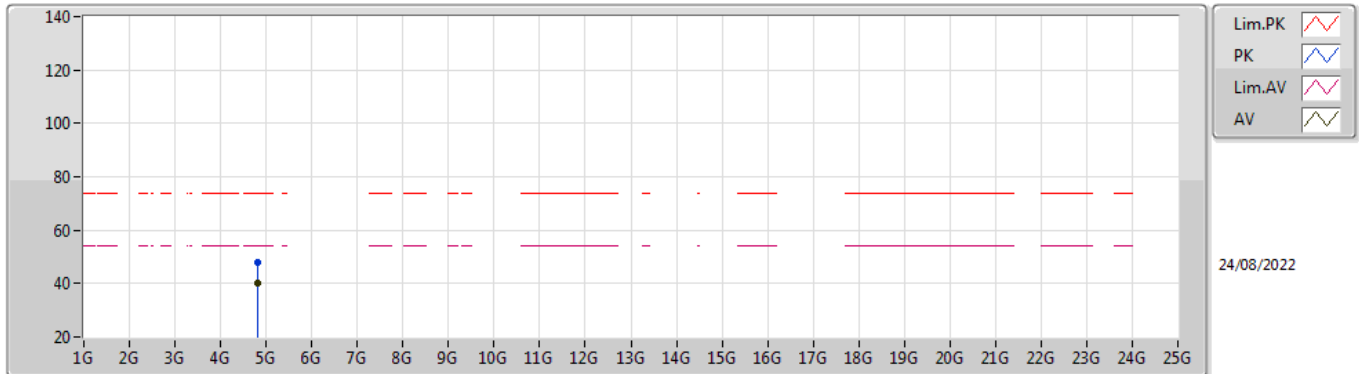


EUT\_X\_2TX  
Setting 63  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	70.64	74.00	-3.36	39.28	3	Horizontal	350	1.52	-	27.56	3.80	-
AV	2.39G	53.65	54.00	-0.35	22.29	3	Horizontal	350	1.52	-	27.56	3.80	-
PK	2.4128G	114.71	Inf	-Inf	83.33	3	Horizontal	350	1.52	-	27.57	3.81	-
AV	2.4164G	101.76	Inf	-Inf	70.38	3	Horizontal	350	1.52	-	27.57	3.81	-

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2412MHz\_TX

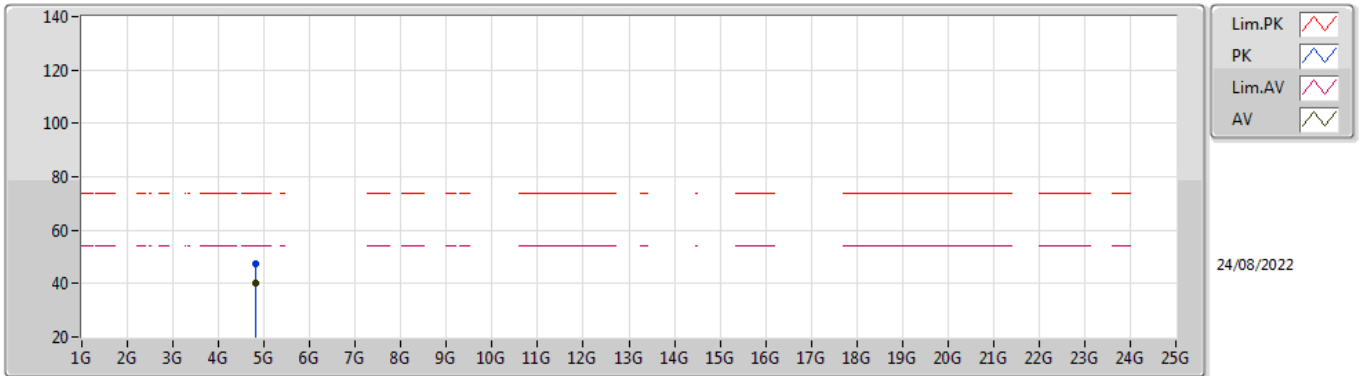


EUT X\_2TX  
Setting 63  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82418G	47.86	74.00	-26.14	42.00	3	Vertical	8	1.73	-	32.45	6.30	32.89
AV	4.82392G	40.06	54.00	-13.94	34.20	3	Vertical	8	1.73	-	32.45	6.30	32.89

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2412MHz\_TX

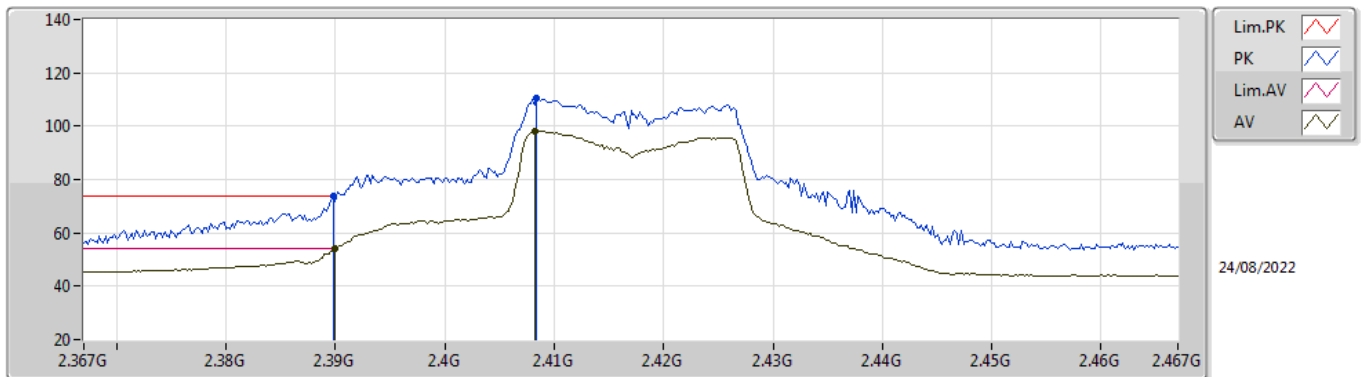


EUT X\_2TX  
Setting 63  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82428G	47.43	74.00	-26.57	41.57	3	Horizontal	261	2.33	-	32.45	6.30	32.89
AV	4.82402G	39.99	54.00	-14.01	34.13	3	Horizontal	261	2.33	-	32.45	6.30	32.89

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2417MHz\_TX

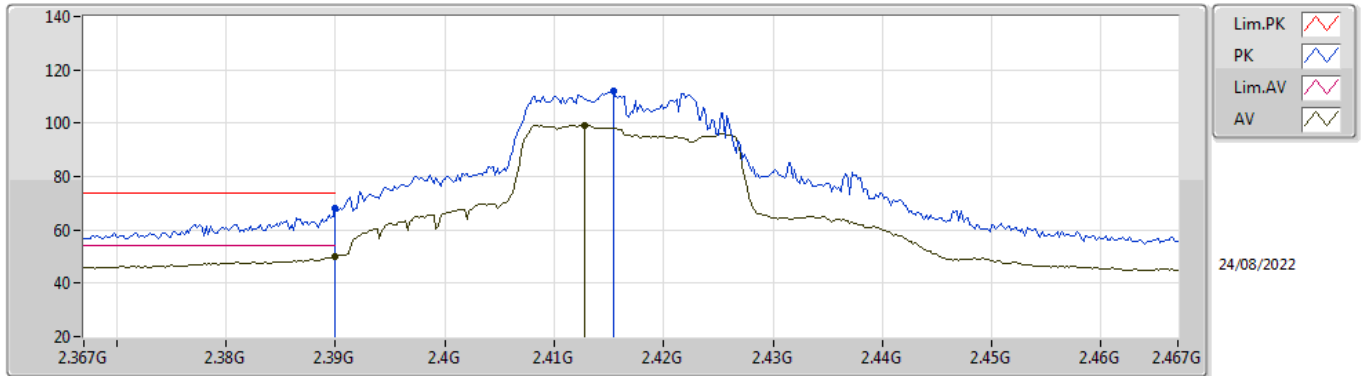


EUT\_X\_2TX  
Setting 76  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	73.73	74.00	-0.27	42.37	3	Vertical	332	2.58	-	27.56	3.80	-
AV	2.39G	53.93	54.00	-0.07	22.57	3	Vertical	332	2.58	-	27.56	3.80	-
PK	2.4084G	110.60	Inf	-Inf	79.22	3	Vertical	332	2.58	-	27.58	3.80	-
AV	2.4082G	98.17	Inf	-Inf	66.79	3	Vertical	332	2.58	-	27.58	3.80	-

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2417MHz\_TX

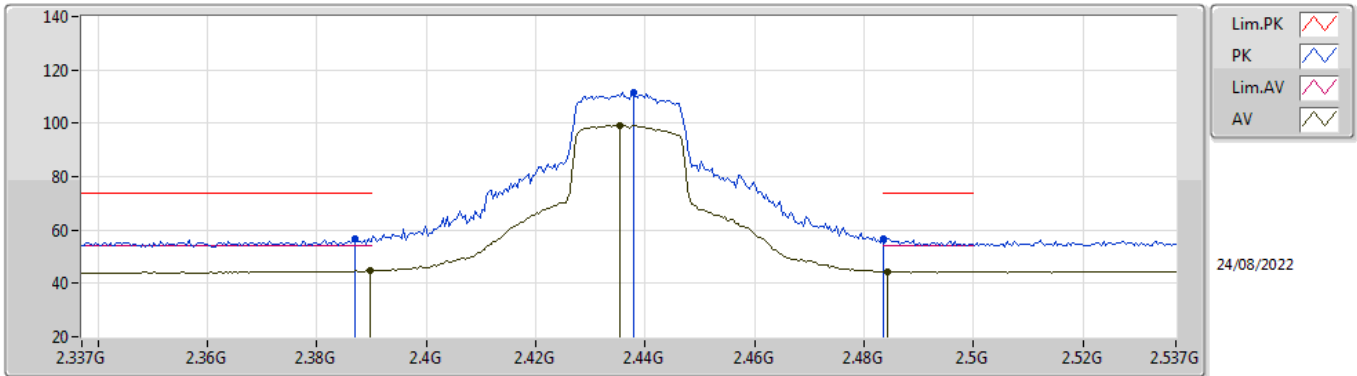


EUT\_X\_2TX  
Setting 76  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	67.95	74.00	-6.05	36.59	3	Horizontal	244	1.48	-	27.56	3.80	-
AV	2.39G	50.12	54.00	-3.88	18.76	3	Horizontal	244	1.48	-	27.56	3.80	-
PK	2.4154G	112.32	Inf	-Inf	80.94	3	Horizontal	244	1.48	-	27.57	3.81	-
AV	2.4128G	99.12	Inf	-Inf	67.74	3	Horizontal	244	1.48	-	27.57	3.81	-

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

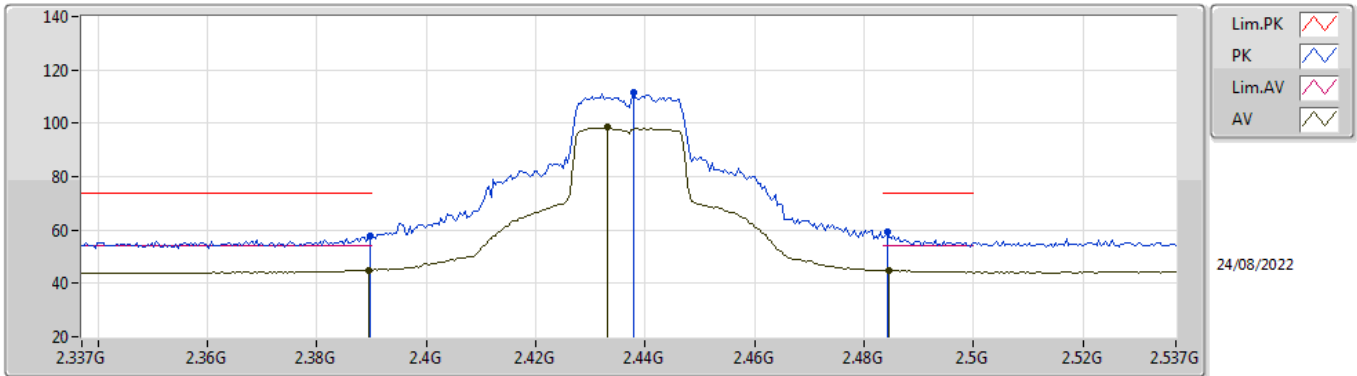


EUT X\_2TX  
Setting 82  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	56.96	74.00	-17.04	25.61	3	Vertical	11	2.57	-	27.55	3.80	-
AV	2.3898G	44.64	54.00	-9.36	13.28	3	Vertical	11	2.57	-	27.56	3.80	-
PK	2.4378G	111.58	Inf	-Inf	80.24	3	Vertical	11	2.57	-	27.52	3.82	-
AV	2.4354G	99.19	Inf	-Inf	67.84	3	Vertical	11	2.57	-	27.53	3.82	-
PK	2.4835G	56.96	74.00	-17.04	25.42	3	Vertical	11	2.57	-	27.70	3.84	-
AV	2.4842G	44.48	54.00	-9.52	12.93	3	Vertical	11	2.57	-	27.71	3.84	-

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2437MHz\_TX



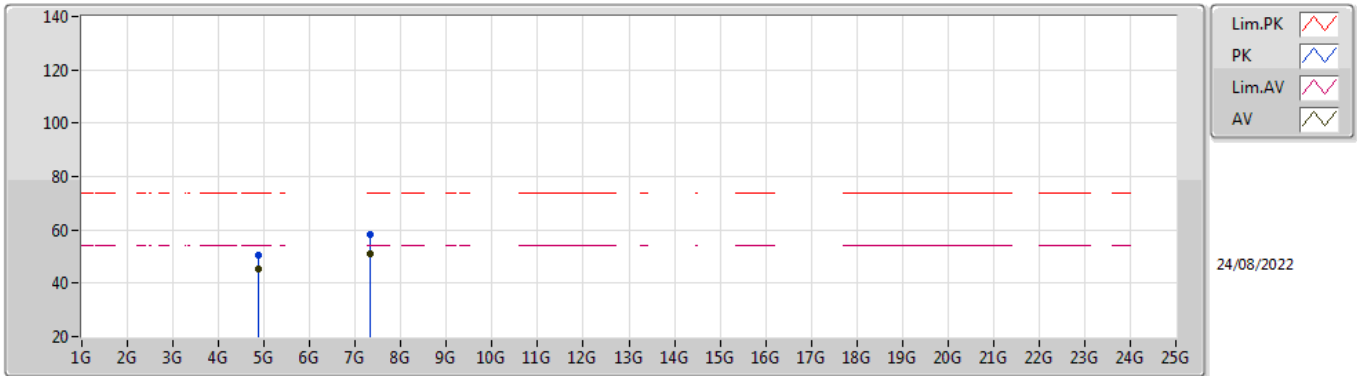
EUT\_X\_2TX  
Setting 82  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	57.64	74.00	-16.36	26.28	3	Horizontal	236	1.68	-	27.56	3.80	-
AV	2.3894G	44.96	54.00	-9.04	13.60	3	Horizontal	236	1.68	-	27.56	3.80	-
PK	2.4378G	111.41	Inf	-Inf	80.07	3	Horizontal	236	1.68	-	27.52	3.82	-
AV	2.433G	98.38	Inf	-Inf	67.03	3	Horizontal	236	1.68	-	27.53	3.82	-
PK	2.4842G	59.37	74.00	-14.63	27.82	3	Horizontal	236	1.68	-	27.71	3.84	-
AV	2.4846G	44.86	54.00	-9.14	13.31	3	Horizontal	236	1.68	-	27.71	3.84	-



802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

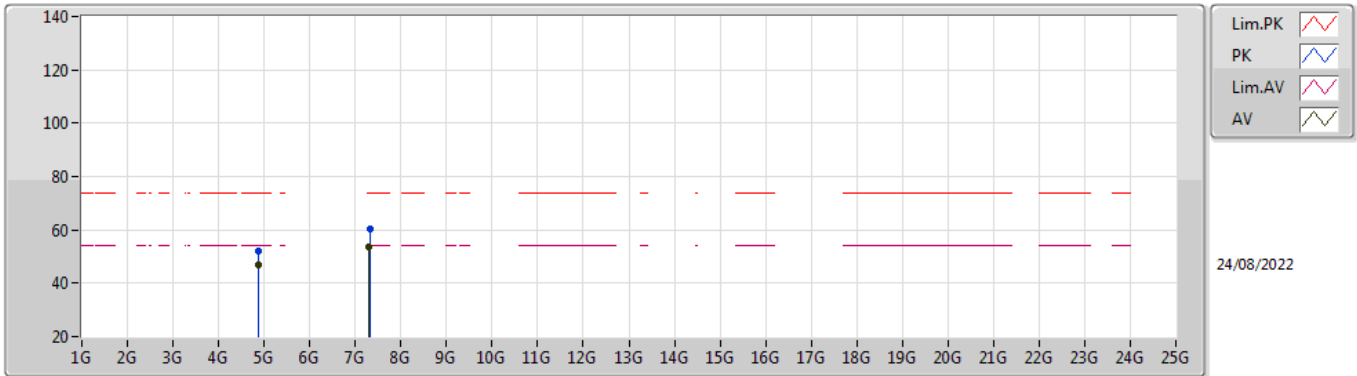


EUT X\_2TX  
Setting 82  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87413G	50.38	74.00	-23.62	44.41	3	Vertical	263	2.21	-	32.55	6.30	32.88
AV	4.87397G	45.45	54.00	-8.55	39.48	3	Vertical	263	2.21	-	32.55	6.30	32.88
PK	7.31026G	58.12	74.00	-15.88	46.71	3	Vertical	170	1.79	-	37.28	7.31	33.18
AV	7.3117G	51.14	54.00	-2.86	39.73	3	Vertical	170	1.79	-	37.28	7.31	33.18

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

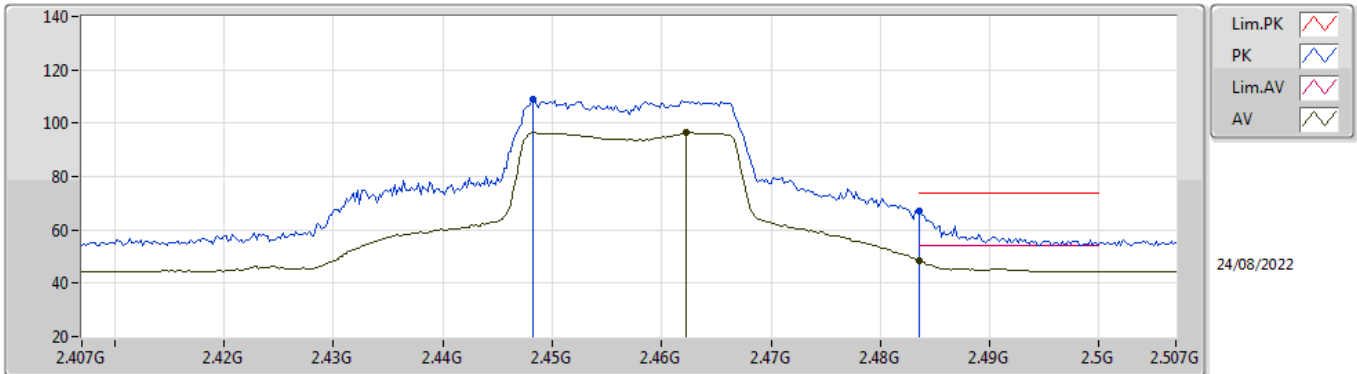


EUT X\_2TX  
Setting 82  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87407G	51.84	74.00	-22.16	45.87	3	Horizontal	349	1.80	-	32.55	6.30	32.88
AV	4.87392G	46.67	54.00	-7.33	40.70	3	Horizontal	349	1.80	-	32.55	6.30	32.88
PK	7.31594G	60.34	74.00	-13.66	48.93	3	Horizontal	355	2.28	-	37.27	7.32	33.18
AV	7.30978G	53.68	54.00	-0.32	42.27	3	Horizontal	355	2.28	-	37.28	7.31	33.18

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2457MHz\_TX

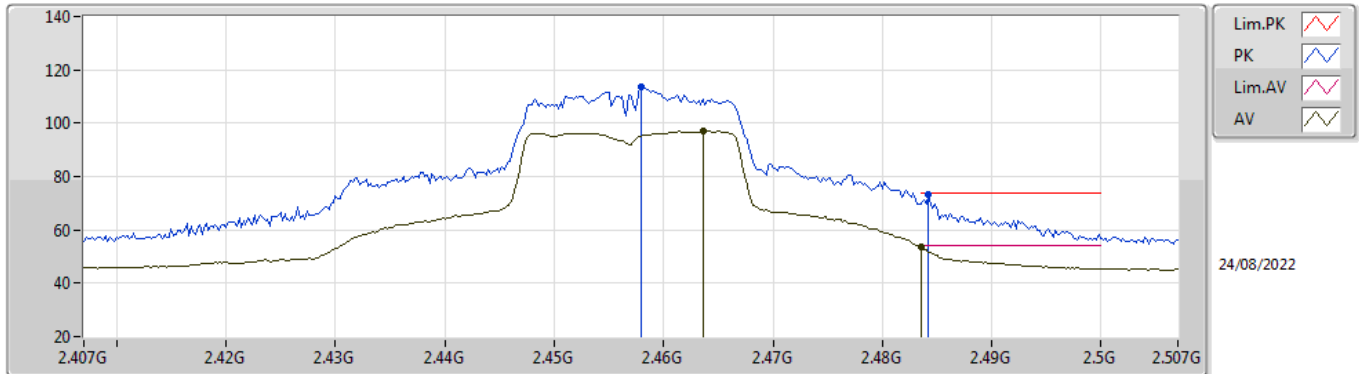


EUT\_X\_2TX  
Setting 74  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4482G	108.82	Inf	-Inf	77.50	3	Vertical	218	1.24	-	27.50	3.82	-
AV	2.4622G	96.61	Inf	-Inf	65.21	3	Vertical	218	1.24	-	27.57	3.83	-
PK	2.4836G	66.84	74.00	-7.16	35.30	3	Vertical	218	1.24	-	27.70	3.84	-
AV	2.4835G	48.66	54.00	-5.34	17.12	3	Vertical	218	1.24	-	27.70	3.84	-

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2457MHz\_TX

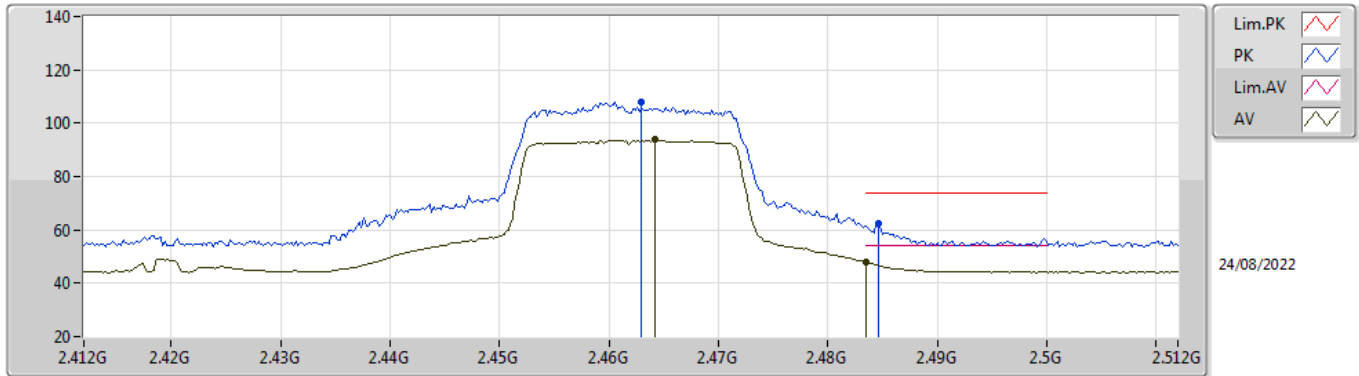


EUT\_X\_2TX  
Setting 74  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.458G	113.65	Inf	-Inf	82.27	3	Horizontal	356	1.71	-	27.55	3.83	-
AV	2.4636G	97.04	Inf	-Inf	65.63	3	Horizontal	356	1.71	-	27.58	3.83	-
PK	2.4842G	73.18	74.00	-0.82	41.63	3	Horizontal	356	1.71	-	27.71	3.84	-
AV	2.4835G	53.45	54.00	-0.55	21.91	3	Horizontal	356	1.71	-	27.70	3.84	-

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2462MHz\_TX

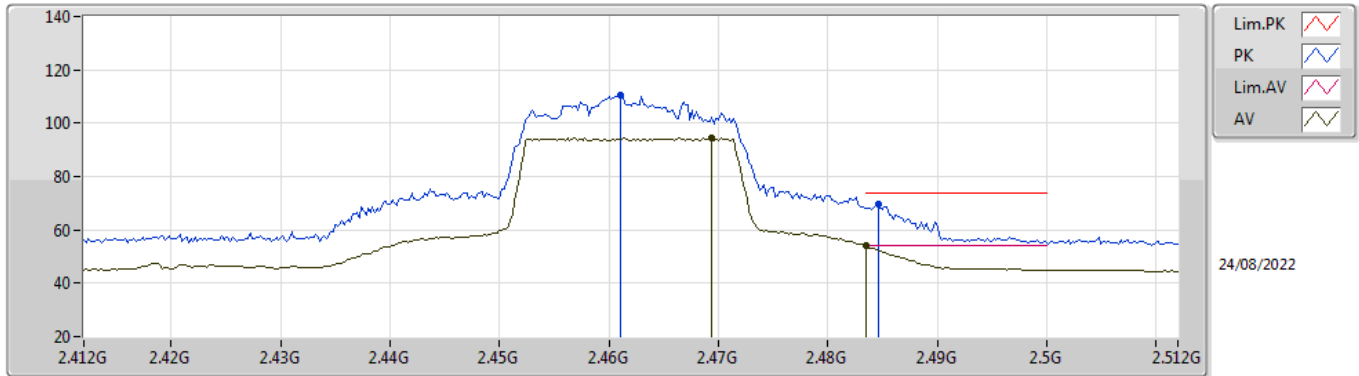


EUT\_X\_2TX  
Setting 74  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	108.10	Inf	-Inf	76.69	3	Vertical	224	1.53	-	27.58	3.83	-
AV	2.4642G	93.71	Inf	-Inf	62.29	3	Vertical	224	1.53	-	27.59	3.83	-
PK	2.4846G	62.40	74.00	-11.60	30.85	3	Vertical	224	1.53	-	27.71	3.84	-
AV	2.4835G	47.76	54.00	-6.24	16.22	3	Vertical	224	1.53	-	27.70	3.84	-

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2462MHz\_TX

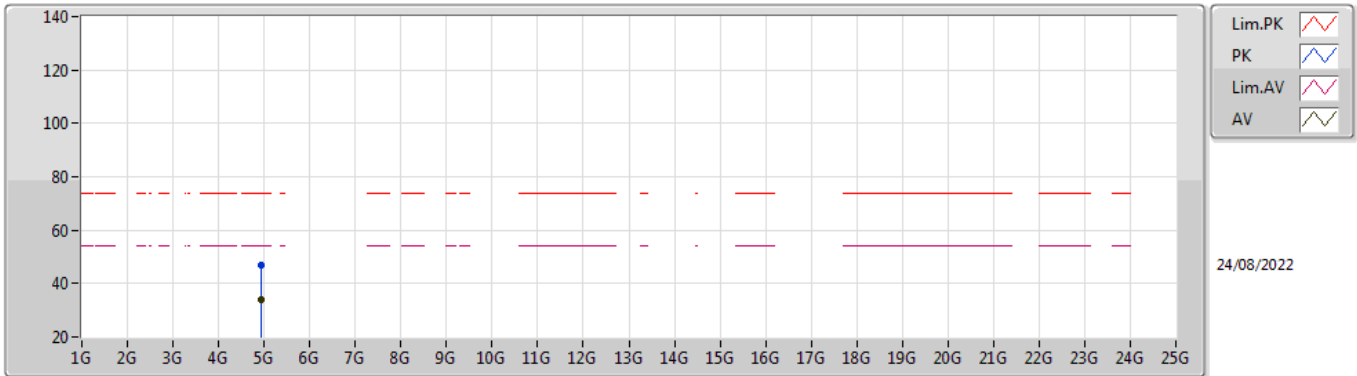


EUT\_X\_2TX  
Setting 74  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	110.58	Inf	-Inf	79.18	3	Horizontal	356	1.68	-	27.57	3.83	-
AV	2.4694G	94.28	Inf	-Inf	62.83	3	Horizontal	356	1.68	-	27.62	3.83	-
PK	2.4846G	69.73	74.00	-4.27	38.18	3	Horizontal	356	1.68	-	27.71	3.84	-
AV	2.4835G	53.91	54.00	-0.09	22.37	3	Horizontal	356	1.68	-	27.70	3.84	-

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2462MHz\_TX

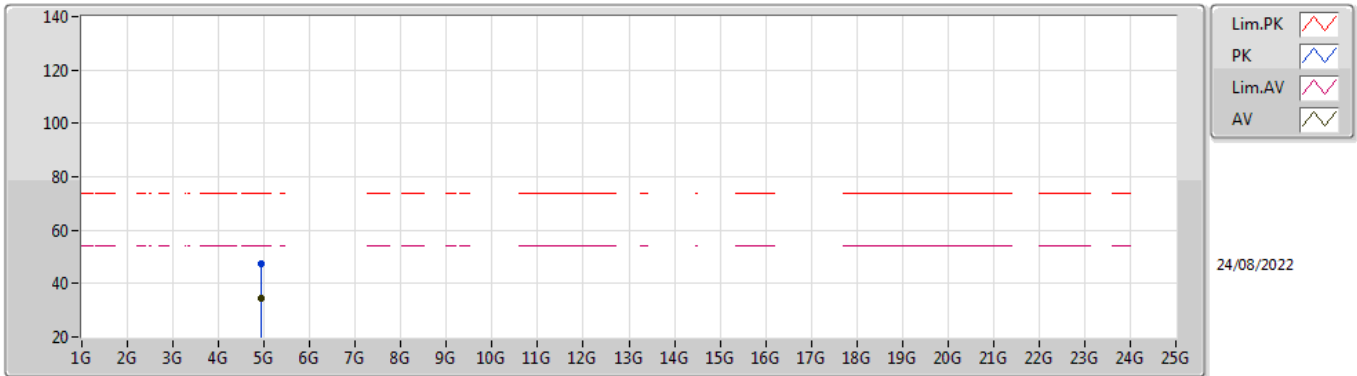


EUT X\_2TX  
Setting 74  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92216G	47.06	74.00	-26.94	40.99	3	Vertical	227	2.08	-	32.64	6.30	32.87
AV	4.928G	34.07	54.00	-19.93	27.97	3	Vertical	227	2.08	-	32.66	6.30	32.86

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2462MHz\_TX



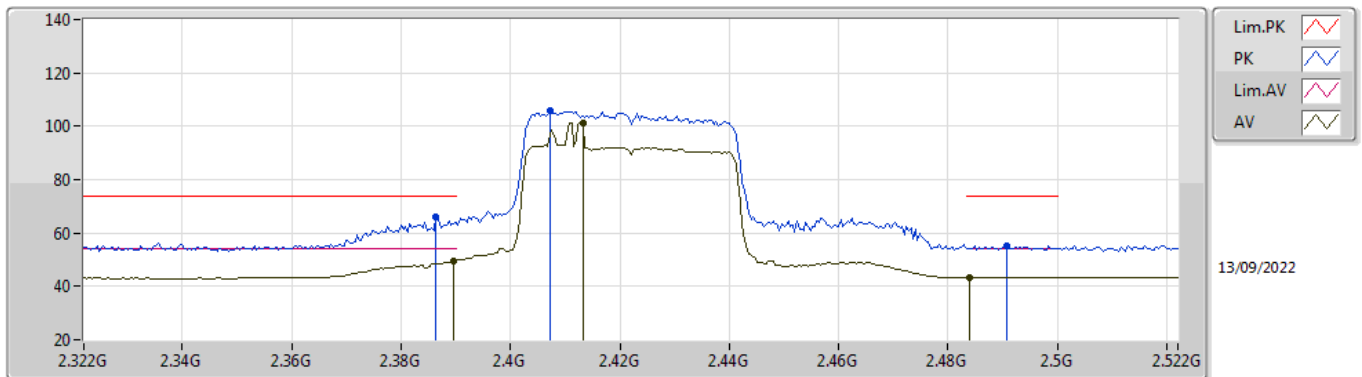
EUT X\_2TX  
Setting 74  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92292G	47.50	74.00	-26.50	41.42	3	Horizontal	85	2.23	-	32.65	6.30	32.87
AV	4.924G	34.23	54.00	-19.77	28.15	3	Horizontal	85	2.23	-	32.65	6.30	32.87



### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

#### 2422MHz\_TX

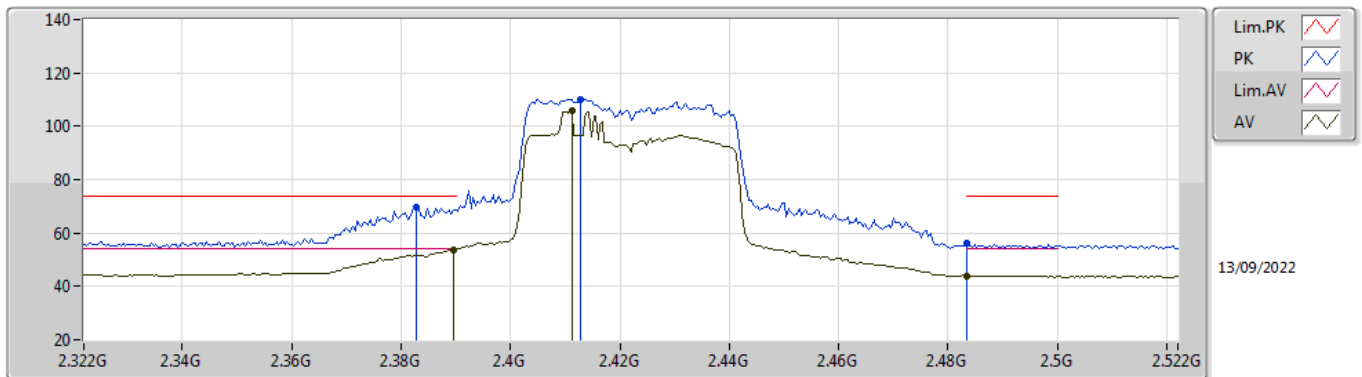


EUT\_X\_2TX  
Setting 59  
04-D-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3864G	66.04	74.00	-7.96	35.78	3	Vertical	230	1.32	-	27.47	2.79	-
AV	2.3896G	49.42	54.00	-4.58	19.15	3	Vertical	230	1.32	-	27.48	2.79	-
PK	2.4072G	105.82	Inf	-Inf	75.51	3	Vertical	230	1.32	-	27.51	2.80	-
AV	2.4132G	101.42	Inf	-Inf	71.08	3	Vertical	230	1.32	-	27.53	2.81	-
PK	2.4908G	55.03	74.00	-18.97	24.34	3	Vertical	230	1.32	-	27.84	2.85	-
AV	2.484G	43.43	54.00	-10.57	12.79	3	Vertical	230	1.32	-	27.80	2.84	-

802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2422MHz\_TX

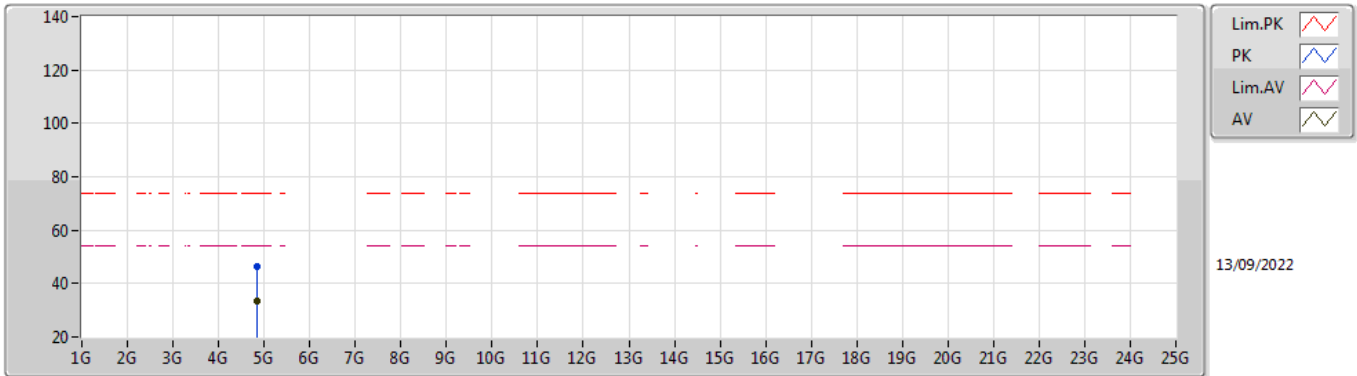


EUT\_X\_2TX  
Setting 59  
04-D-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3828G	69.80	74.00	-4.20	39.54	3	Horizontal	1	1.75	-	27.47	2.79	-
AV	2.3896G	53.86	54.00	-0.14	23.59	3	Horizontal	1	1.75	-	27.48	2.79	-
PK	2.4128G	110.18	Inf	-Inf	79.84	3	Horizontal	1	1.75	-	27.53	2.81	-
AV	2.4112G	106.06	Inf	-Inf	75.73	3	Horizontal	1	1.75	-	27.52	2.81	-
PK	2.4835G	56.38	74.00	-17.62	25.74	3	Horizontal	1	1.75	-	27.80	2.84	-
AV	2.4835G	44.02	54.00	-9.98	13.38	3	Horizontal	1	1.75	-	27.80	2.84	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

### 2422MHz\_TX

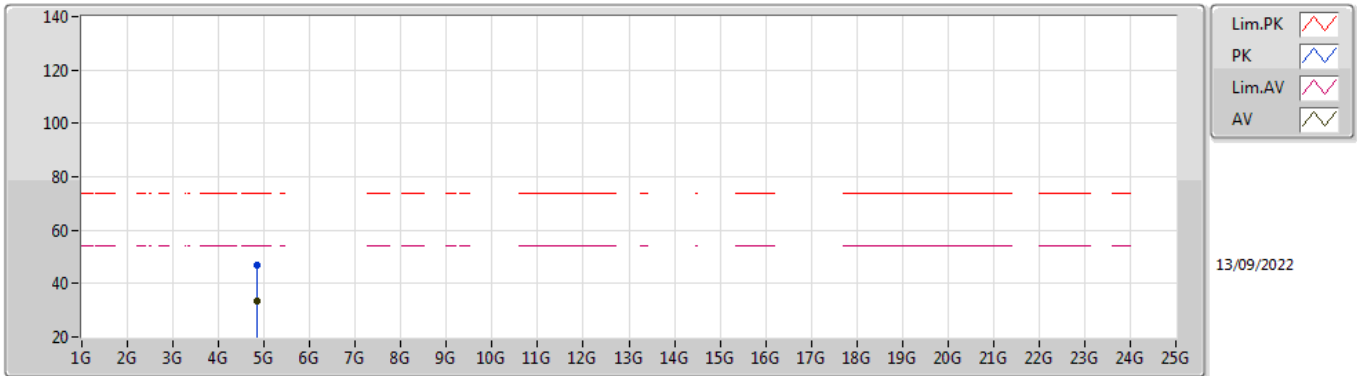


EUT X\_2TX  
Setting 59  
04-D-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.852G	46.42	74.00	-27.58	41.42	3	Vertical	285	1.66	-	32.81	4.83	32.64
AV	4.84208G	33.22	54.00	-20.78	28.27	3	Vertical	285	1.66	-	32.77	4.82	32.64

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

### 2422MHz\_TX

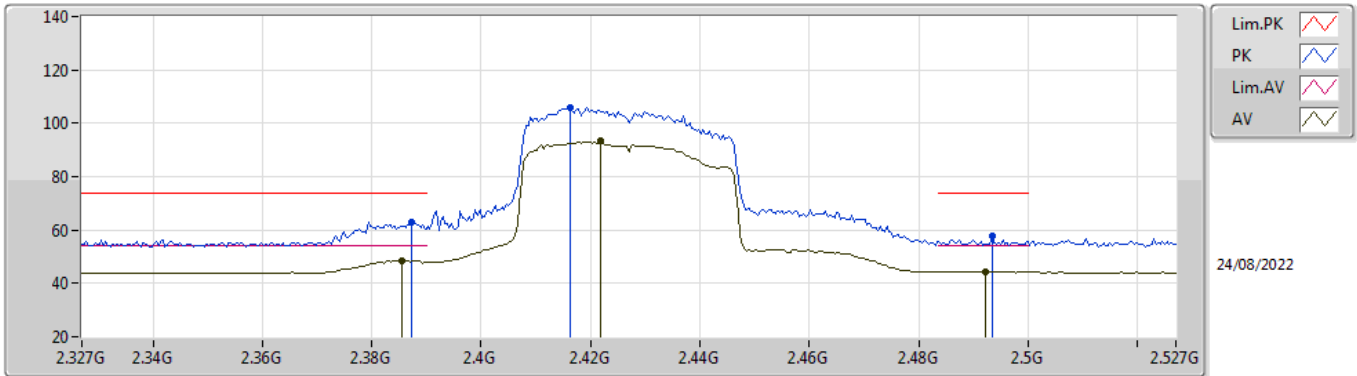


EUT X\_2TX  
Setting 59  
04-D-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.85468G	46.64	74.00	-27.36	41.63	3	Horizontal	15	2.33	-	32.82	4.83	32.64
AV	4.8392G	33.51	54.00	-20.49	28.57	3	Horizontal	15	2.33	-	32.76	4.82	32.64

802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2427MHz\_TX

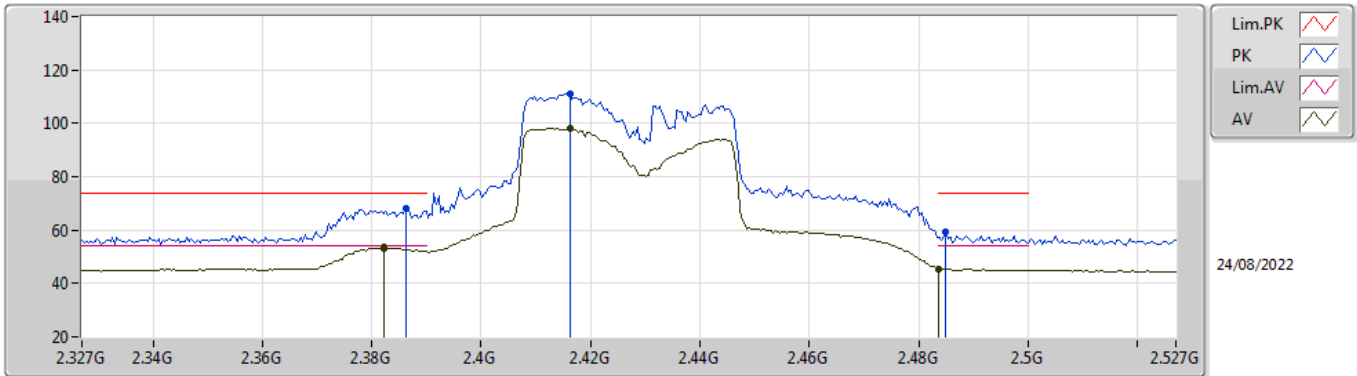


EUT\_X\_2TX  
Setting 65  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3874G	62.94	74.00	-11.06	31.59	3	Vertical	262	1.24	-	27.55	3.80	-
AV	2.3854G	48.42	54.00	-5.58	17.08	3	Vertical	262	1.24	-	27.54	3.80	-
PK	2.4162G	105.70	Inf	-Inf	74.32	3	Vertical	262	1.24	-	27.57	3.81	-
AV	2.4218G	93.20	Inf	-Inf	61.83	3	Vertical	262	1.24	-	27.56	3.81	-
PK	2.4934G	57.57	74.00	-16.43	25.96	3	Vertical	262	1.24	-	27.76	3.85	-
AV	2.4922G	44.35	54.00	-9.65	12.75	3	Vertical	262	1.24	-	27.75	3.85	-

802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2427MHz\_TX

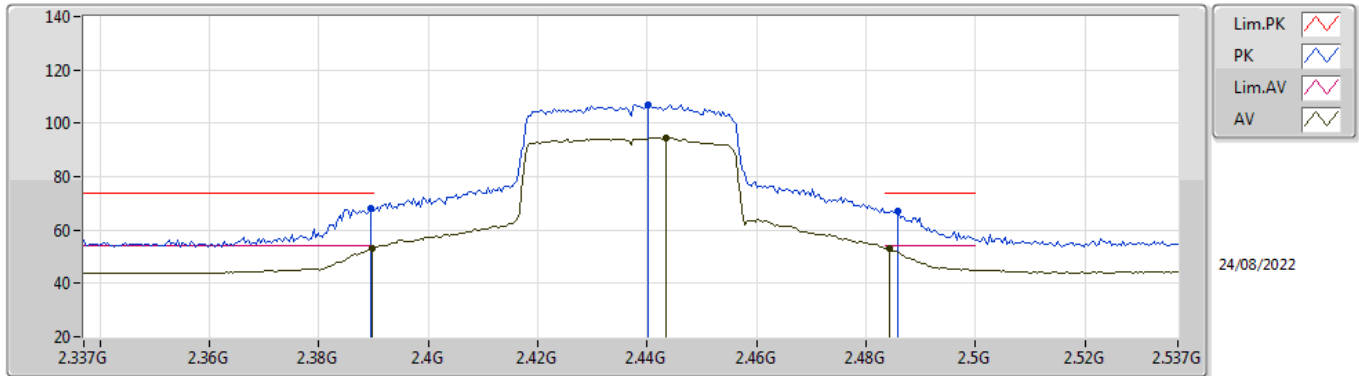


EUT X\_2TX  
Setting 65  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
AV	2.3822G	53.12	54.00	-0.88	21.79	3	Horizontal	354	1.72	-	27.53	3.80	-
PK	2.3862G	67.96	74.00	-6.04	36.62	3	Horizontal	354	1.72	-	27.54	3.80	-
AV	2.3822G	53.62	54.00	-0.38	22.29	3	Horizontal	354	1.72	-	27.53	3.80	-
AV	2.4162G	98.26	Inf	-Inf	66.88	3	Horizontal	354	1.72	-	27.57	3.81	-
PK	2.4162G	111.26	Inf	-Inf	79.88	3	Horizontal	354	1.72	-	27.57	3.81	-
AV	2.4835G	45.54	54.00	-8.46	14.00	3	Horizontal	354	1.72	-	27.70	3.84	-
PK	2.485G	59.40	74.00	-14.60	27.85	3	Horizontal	354	1.72	-	27.71	3.84	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

#### 2437MHz\_TX

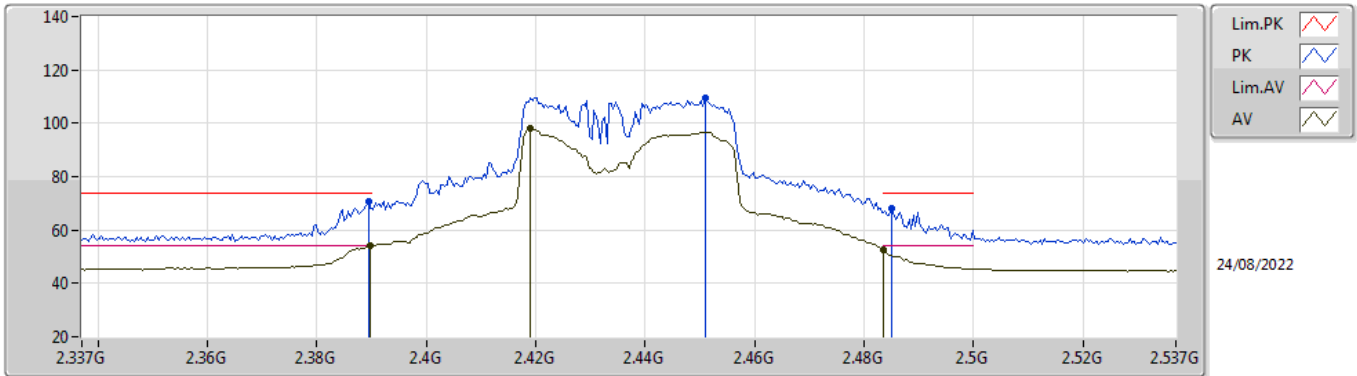


EUT\_X\_2TX  
Setting 73  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	67.92	74.00	-6.08	36.56	3	Vertical	218	1.72	-	27.56	3.80	-
AV	2.3898G	53.25	54.00	-0.75	21.89	3	Vertical	218	1.72	-	27.56	3.80	-
PK	2.4402G	107.06	Inf	-Inf	75.72	3	Vertical	218	1.72	-	27.52	3.82	-
AV	2.4434G	94.43	Inf	-Inf	63.10	3	Vertical	218	1.72	-	27.51	3.82	-
PK	2.4858G	67.10	74.00	-6.90	35.55	3	Vertical	218	1.72	-	27.71	3.84	-
AV	2.4842G	53.09	54.00	-0.91	21.54	3	Vertical	218	1.72	-	27.71	3.84	-

802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX



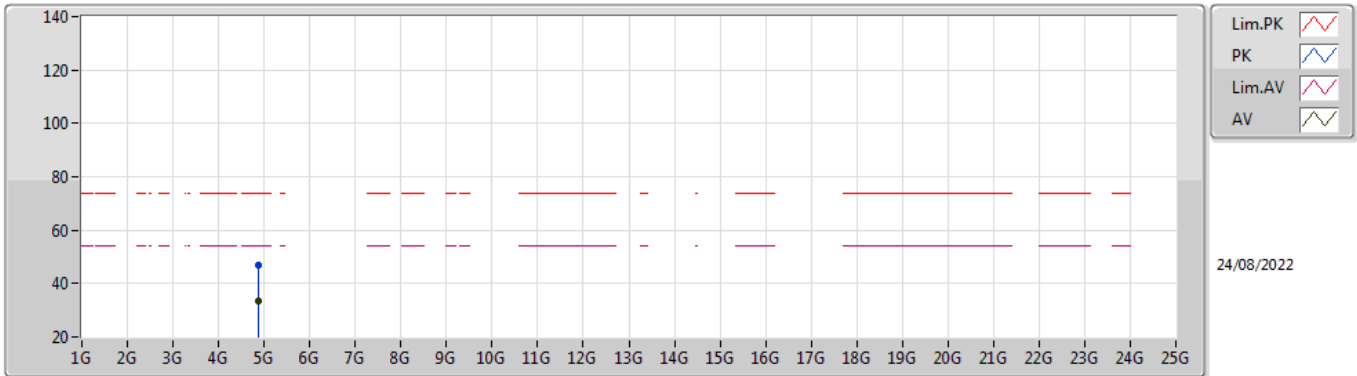
EUT\_X\_2TX  
Setting 73  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	70.54	74.00	-3.46	39.18	3	Horizontal	355	1.76	-	27.56	3.80	-
AV	2.3898G	53.98	54.00	-0.02	22.62	3	Horizontal	355	1.76	-	27.56	3.80	-
PK	2.485G	67.85	74.00	-6.15	36.30	3	Horizontal	355	1.76	-	27.71	3.84	-
AV	2.4835G	52.66	54.00	-1.34	21.12	3	Horizontal	355	1.76	-	27.70	3.84	-
AV	2.419G	98.15	Inf	-Inf	66.78	3	Horizontal	355	1.76	-	27.56	3.81	-
PK	2.451G	109.71	Inf	-Inf	78.37	3	Horizontal	355	1.76	-	27.51	3.83	-



802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

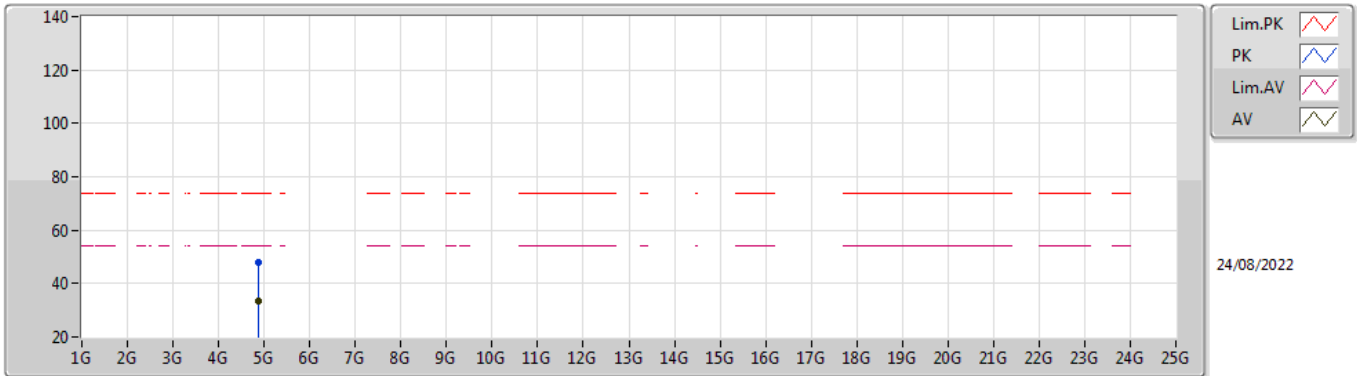


EUT X\_2TX  
Setting 73  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8757G	46.82	74.00	-27.18	40.84	3	Vertical	252	1.44	-	32.55	6.30	32.87
AV	4.87784G	33.63	54.00	-20.37	27.64	3	Vertical	252	1.44	-	32.56	6.30	32.87

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

### 2437MHz\_TX

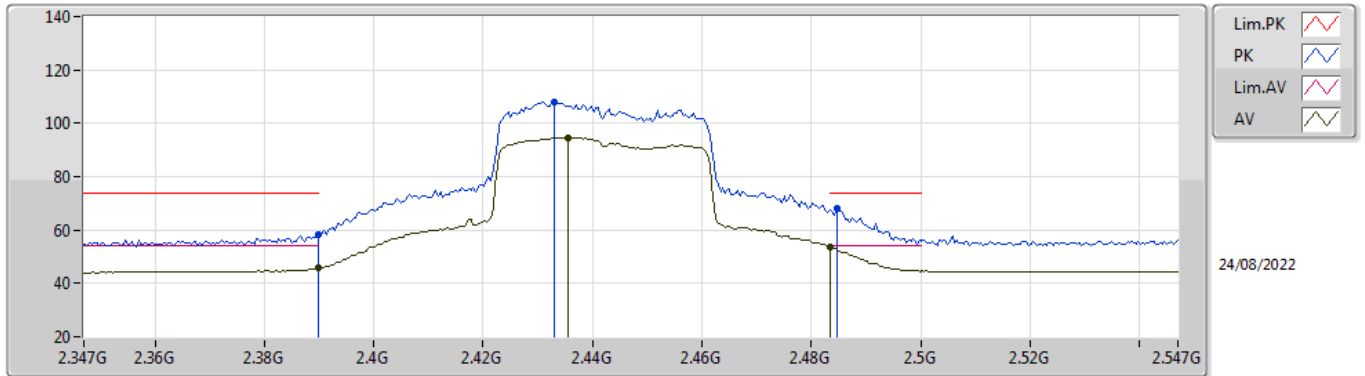


EUT X\_2TX  
Setting 73  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87118G	48.01	74.00	-25.99	42.05	3	Horizontal	124	1.65	-	32.54	6.30	32.88
AV	4.87474G	33.67	54.00	-20.33	27.70	3	Horizontal	124	1.65	-	32.55	6.30	32.88

802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2447MHz\_TX

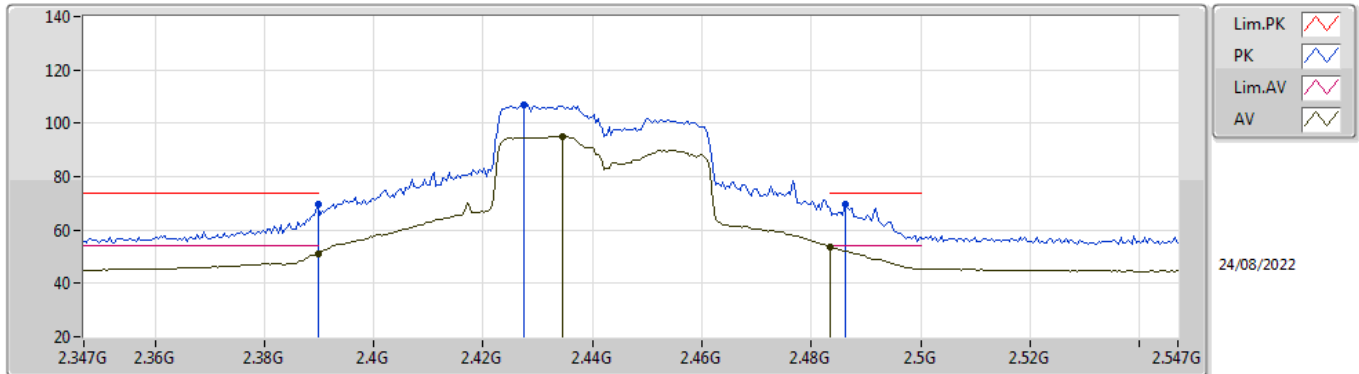


EUT\_X\_2TX  
Setting 72  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	58.14	74.00	-15.86	26.78	3	Vertical	10	2.55	-	27.56	3.80	-
AV	2.3898G	45.67	54.00	-8.33	14.31	3	Vertical	10	2.55	-	27.56	3.80	-
PK	2.433G	107.89	Inf	-Inf	76.54	3	Vertical	10	2.55	-	27.53	3.82	-
AV	2.4354G	94.68	Inf	-Inf	63.33	3	Vertical	10	2.55	-	27.53	3.82	-
PK	2.4846G	67.86	74.00	-6.14	36.31	3	Vertical	10	2.55	-	27.71	3.84	-
AV	2.4835G	53.63	54.00	-0.37	22.09	3	Vertical	10	2.55	-	27.70	3.84	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

### 2447MHz\_TX

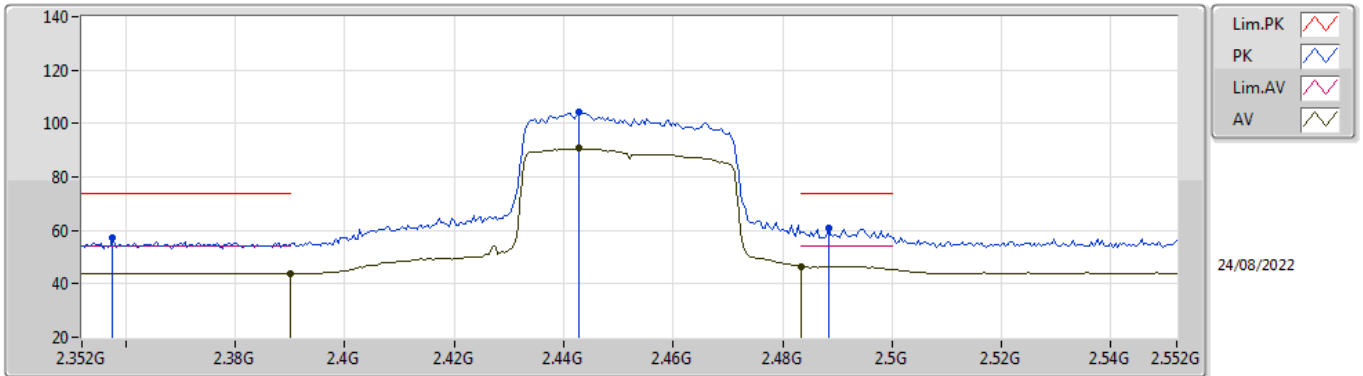


EUT\_X\_2TX  
Setting 72  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	69.89	74.00	-4.11	38.53	3	Horizontal	236	1.69	-	27.56	3.80	-
AV	2.3898G	51.03	54.00	-2.97	19.67	3	Horizontal	236	1.69	-	27.56	3.80	-
PK	2.4274G	107.02	Inf	-Inf	75.66	3	Horizontal	236	1.69	-	27.55	3.81	-
AV	2.4346G	95.20	Inf	-Inf	63.85	3	Horizontal	236	1.69	-	27.53	3.82	-
PK	2.4862G	69.40	74.00	-4.60	37.84	3	Horizontal	236	1.69	-	27.72	3.84	-
AV	2.4835G	53.68	54.00	-0.32	22.14	3	Horizontal	236	1.69	-	27.70	3.84	-

802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2452MHz\_TX

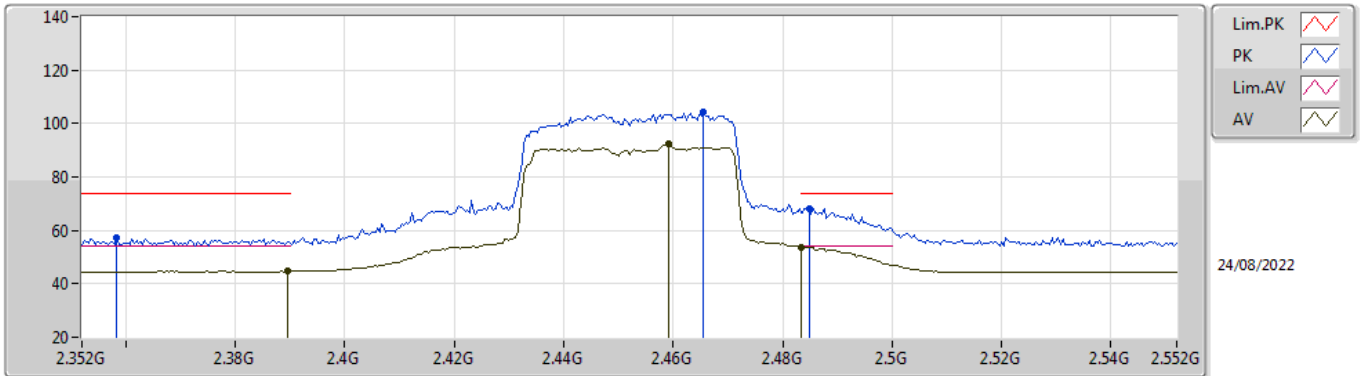


EUT\_X\_2TX  
Setting 56  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3576G	57.06	74.00	-16.94	25.83	3	Vertical	223	1.34	-	27.43	3.80	-
AV	2.39G	44.04	54.00	-9.96	12.68	3	Vertical	223	1.34	-	27.56	3.80	-
PK	2.4428G	104.07	Inf	-Inf	72.74	3	Vertical	223	1.34	-	27.51	3.82	-
AV	2.4428G	90.64	Inf	-Inf	59.31	3	Vertical	223	1.34	-	27.51	3.82	-
PK	2.4884G	60.73	74.00	-13.27	29.16	3	Vertical	223	1.34	-	27.73	3.84	-
AV	2.4835G	46.54	54.00	-7.46	15.00	3	Vertical	223	1.34	-	27.70	3.84	-

802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2452MHz\_TX

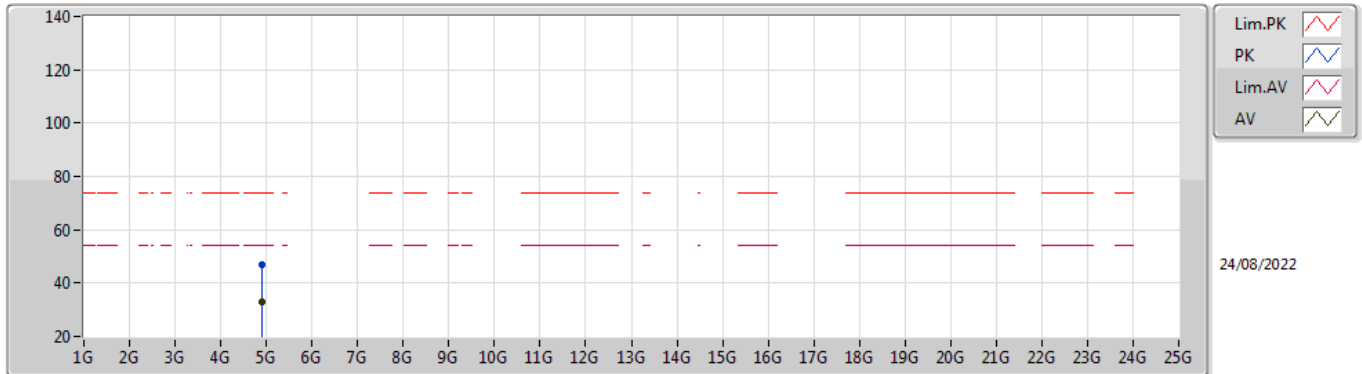


EUT\_X\_2TX  
Setting 56  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3584G	57.32	74.00	-16.68	26.09	3	Horizontal	359	1.69	-	27.43	3.80	-
AV	2.3896G	44.65	54.00	-9.35	13.29	3	Horizontal	359	1.69	-	27.56	3.80	-
PK	2.4656G	104.33	Inf	-Inf	72.91	3	Horizontal	359	1.69	-	27.59	3.83	-
AV	2.4592G	92.19	Inf	-Inf	60.80	3	Horizontal	359	1.69	-	27.56	3.83	-
PK	2.4848G	68.24	74.00	-5.76	36.69	3	Horizontal	359	1.69	-	27.71	3.84	-
AV	2.4835G	53.87	54.00	-0.13	22.33	3	Horizontal	359	1.69	-	27.70	3.84	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

#### 2452MHz\_TX

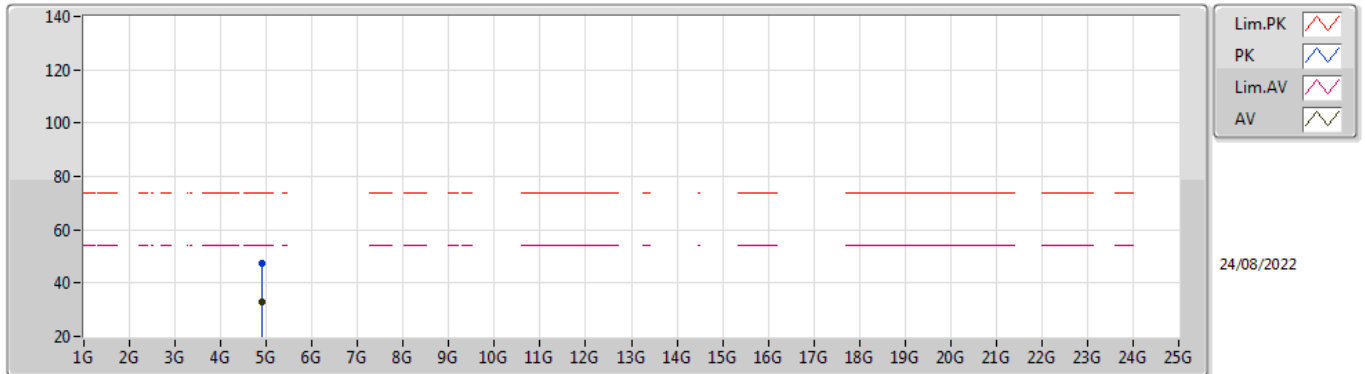


EUT X\_2TX  
Setting 56  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90384G	47.03	74.00	-26.97	40.99	3	Vertical	309	2.73	-	32.61	6.30	32.87
AV	4.90234G	33.06	54.00	-20.94	27.03	3	Vertical	309	2.73	-	32.60	6.30	32.87

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

#### 2452MHz\_TX



EUT X\_2TX  
Setting 56  
01-C-B-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9043G	47.27	74.00	-26.73	41.23	3	Horizontal	71	1.14	-	32.61	6.30	32.87
AV	4.9075G	33.11	54.00	-20.89	27.06	3	Horizontal	71	1.14	-	32.62	6.30	32.87

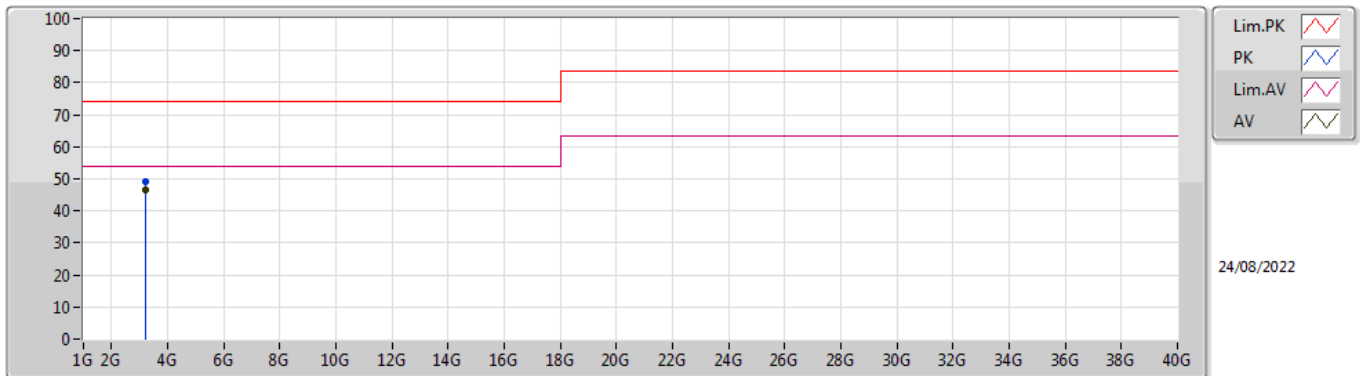




**Summary**

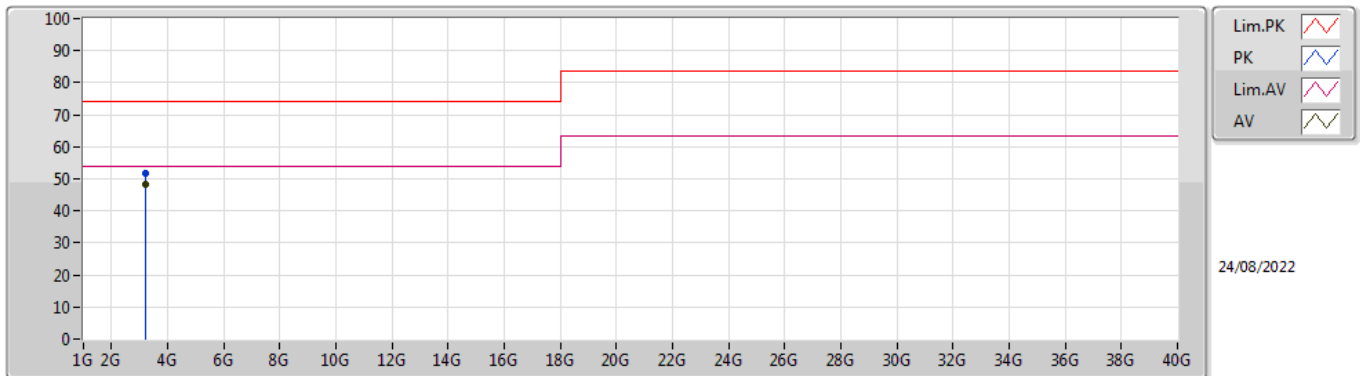
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	3.19991G	48.13	54.00	-5.87	Horizontal

### Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	3.20001G	49.33	74.00	-24.67	-0.21	3	Vertical	110	1.04	-	49.54	29.90	5.80	35.91
AV	3.19987G	46.61	54.00	-7.39	-0.21	3	Vertical	110	1.04	"Worst"	46.82	29.90	5.80	35.91

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	3.20002G	51.69	74.00	-22.31	-0.21	3	Horizontal	313	1.21	-	51.90	29.90	5.80	35.91
AV	3.19991G	48.13	54.00	-5.87	-0.21	3	Horizontal	313	1.21	"Worst"	48.34	29.90	5.80	35.91