

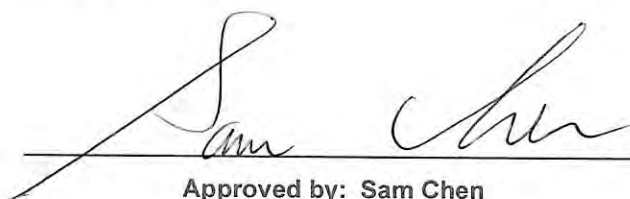


# RADIO TEST REPORT

**FCC ID** : 2AYRA-08438  
**Equipment** : Linksys Velop Pro 7  
**Brand Name** : LINKSYS  
**Model Name** : MBE7000, MBE70EC, MBE70WH, MBE70MS, SPNMBE70, MBE70  
**Applicant** : Linksys USA, Inc.  
121 Theory, Irvine, CA. 92617, USA  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Dec. 01, 2022, and testing was started from Dec. 14, 2022 and completed on Mar. 13, 2023. 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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### History of this test report

Report No.	Version	Description	Issued Date
FR291415AA	01	Initial issue of report	Jun. 14, 2023



### 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	-

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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

**Note:**

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



**1.1.2 Antenna Information**

Ant.	Port				Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz	6GHz	Bluetooth Zigbee					
1	1	1	-	-	Galtronics	02102140-07691-1	PCB Antenna	I-PEX	Note1
2	2	2	-	-	Galtronics	02102140-07691-2	PCB Antenna	I-PEX	
3	-	-	2	-	Galtronics	02102475-07691-2	PCB Antenna	I-PEX	
4	-	-	1	-	Galtronics	02102475-07691-1	PCB Antenna	I-PEX	
5	-	-	-	1	Galtronics	02102073-07691-2	PCB Antenna	I-PEX	

Note1:

Ant.	Antenna Gain (dBi)									
	WLAN 2.4GHz	WLAN 5GHz UNII 1	WLAN 5GHz UNII 2A	WLAN 5GHz UNII 2C	WLAN 5GHz UNII 3	WLAN 6GHz UNII 5	WLAN 6GHz UNII 6	WLAN 6GHz UNII 7	WLAN 6GHz UNII 8	Bluetooth Zigbee
1	2.626	3.600	3.535	3.323	3.333	-	-	-	-	-
2	2.626	3.600	3.535	3.323	3.333	-	-	-	-	-
3	-	-	-	-	-	3.076	3.246	3.429	3.429	-
4	-	-	-	-	-	3.076	3.246	3.429	3.429	-
5	-	-	-	-	-	-	-	-	-	1.095

Note2: The above information was declared by manufacturer.

**<For 2.4GHz function>**

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

**<For 5GHz function>**

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

**<For 6GHz function>**

**For IEEE 802.11ax/be (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.

**<For Bluetooth/Zigbee function> (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

Port 1 could transmit/receive simultaneously.



Note 3: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

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

Where ;

2.4G G1= 2.626 dBi ;2.4G G2= 2.626 dBi ;DG= 5.636dBi

5G UNII-1 G1= 3.6 dBi ;5G UNII-1 G2= 3.6 dBi ;DG= 6.610dBi

5G UNII-2A G1= 3.535 dBi ;5G UNII-2A G2= 3.535 dBi ;DG= 6.545dBi

5G UNII-2C G1= 3.323 dBi ;5G UNII-2C G2= 3.323 dBi ;DG= 6.333dBi

5G UNII-3 G1= 3.33 dBi ;5G UNII-3 G2= 3.33 dBi ;DG= 6.343dBi

6G UNII-5 G1= 3.076 dBi ;6G UNII-5 G2= 3.076 dBi ;DG= 6.086dBi

6G UNII-6 G1= 3.246 dBi ;6G UNII-6 G2= 3.246 dBi ;DG= 6.256dBi

6G UNII-7 G1= 3.429 dBi ;6G UNII-7 G2= 3.429 dBi ;DG= 6.439dBi

6G UNII-8 G1= 3.429 dBi ;6G UNII-7 G2= 3.429 dBi ;DG= 6.439dBi



1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)
802.11b	0.907	0.42	4.625m
802.11g	0.936	0.29	1.978m
802.11ax HEW20-BF	0.974	0.11	3.48m
802.11ax HEW40-BF	0.983	0.07	n/a (DC>=0.98)

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz, n/ac/ax/be in 5GHz UNII 1~UNII 3 and ax/be in 6GHz UNII 5~UNII 8.			
Function	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Support RU	<input checked="" type="checkbox"/>	Full RU	<input type="checkbox"/>	Partial RU
Test Software Version	<Non-beamforming mode> QSPR V5.0-00202 <Beamforming mode>Tera Term V4.105(SVN#8433)			

Note: The above information was declared by manufacturer.

1.1.5 Table for Bluetooth/Zigbee Chipset Source Information

EUT	Source	Model Name	Chipset Supports NFC	EUT Supports NFC
1	Main	K32W061	V	X
2	Second	K32W041	X	X

Note: From the above, EUT 1 was selected as representative model for the test and its data was recorded in this report.

1.1.6 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
MBE7000	All the models are identical, the difference model for difference model served as marketing strategy.
MBE70EC	
MBE70WH	
MBE70MS	
SPNMBE70	
MBE70	

Note 1: From the above models, model: MBE7000 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.





### 1.2 Applicable Standards

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

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

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

- ◆ FCC KDB 558074 D01 v05r02
- ◆ FCC KDB 662911 D01 v02r01
- ◆ FCC KDB 414788 D01 v01r01

### 1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Owen Hsu	23.1-24.1 / 52-63	Dec. 14, 2022~ Mar. 06, 2023
Radiated <Below 1GHz and Co-location>	03CH06-CB	Roy Mai	21.3~23.2 / 61~64	Feb. 23, 2023~ Mar. 13, 2023
Radiated <Above 1GHz>	03CH03-CB	Roy Mai	21.7~22.7 / 61~63	Feb. 23, 2023~ Mar. 13, 2023
	03CH06-CB		21.3~23.2 / 61~64	
AC Conduction	CO01-CB	Elvin Yeh	22~23 / 50~51	Feb. 23, 2023



## 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

**<Non-beamforming mode>**

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	19.5
2417MHz	19.5
2437MHz	22
2462MHz	20
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	17.5
2417MHz	19
2437MHz	22
2457MHz	19
2462MHz	18.5

**<Beamforming mode>**

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	19
2417MHz	21
2437MHz	24
2457MHz	21
2462MHz	19
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	18
2437MHz	20
2452MHz	18

**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 mode, only 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 1(WiFi+Bluetooth) + Adapter 3 + US plug
2	EUT 1(WiFi+Bluetooth) + Adapter 4 + US plug
3	EUT 1(WiFi+Bluetooth) + Adapter 1
4	EUT 1(WiFi+Bluetooth) + Adapter 2
Mode 2 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5 will follow this same test mode.	
5	EUT 1(WiFi+Zigbee) + Adapter 4 + US plug
For operating mode 5 is the worst case and it was record in this test report.	

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
<b>Operating Mode</b>	1   EUT 1



<b>The Worst Case Mode for Following Conformance Tests</b>	
<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>	CTX
After evaluating, the worst case was found at Z axis from Radiated Emission test Above 1GHz., So the measurement will follow this same test configuration.	
1	EUT 1 in Z axis + WLAN 2.4GHz + Adapter 1
2	EUT 1 in Z axis + WLAN 2.4GHz + Adapter 2
3	EUT 1 in Z axis + WLAN 2.4GHz + Adapter 4 + US plug
4	EUT 1 in Z axis + WLAN 2.4GHz + Adapter 3 + US plug
Mode 2 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5~8 will follow this same test mode.	
5	EUT 1 in Z axis + WLAN 5GHz + Adapter 2
6	EUT 1 in Z axis + WLAN 6GHz + Adapter 2
7	EUT 1 in Z axis + Bluetooth + Adapter 2
8	EUT 1 in Z axis + Zigbee + Adapter 2
For operating mode 2 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX
After evaluating, the worst case was found at Z axis. Thus the measurement will follow this same test configuration.	
1	EUT 1 in Z axis

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



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz + Bluetooth
2	WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz + Zigbee
Refer to Sporton Test Report No.: FA291415 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:

During the test, the following programs under WIN 10 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 Client 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 1	Ktec	KSA-30W-120250VU	Input: 100-240V~50/60Hz, 1.0A Output: 12.0V, 2.5A
Adapter 2	APD	WA-30P12FU	Input: 100-240V~, 50-60Hz, 0.9A Max. Output: 12.0V, 2.5A
Adapter 3	Ktec	KSA-30W-120250D5	Input: 100-240V~50/60Hz, 1.0A Output: 12.0V, 2.5A, 30.0W
Adapter 4	APD	WA-30P12R	Input: 100-240V~, 50-60Hz, 0.9A Max. Output: 12.0V, 2.5A, 30.0W
Others			
RJ-45 cable*1, non-shielded, 0.9m			
Plug*1 (Equip with Adapter 3 use only)			
Plug*1 (Equip with Adapter 4 use only)			



## 2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	WAN NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	6G NB	DELL	E6430	N/A
F	Client	Linksys	MX6000	N/A
G	Client NB	DELL	E6430	N/A
H	AX210	Intel	AX210NGW	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	Lenovo	L440	N/A

For Radiated (above 1GHz):  
<Non-beamforming mode>

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	Lenovo	L440	N/A

<Beamforming mode>

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	Lenovo	L440	N/A
B	Client	Linksys	MX6000	N/A
C	NB	Lenovo	L440	N/A



For RF Conducted:  
<Non-beamforming mode>

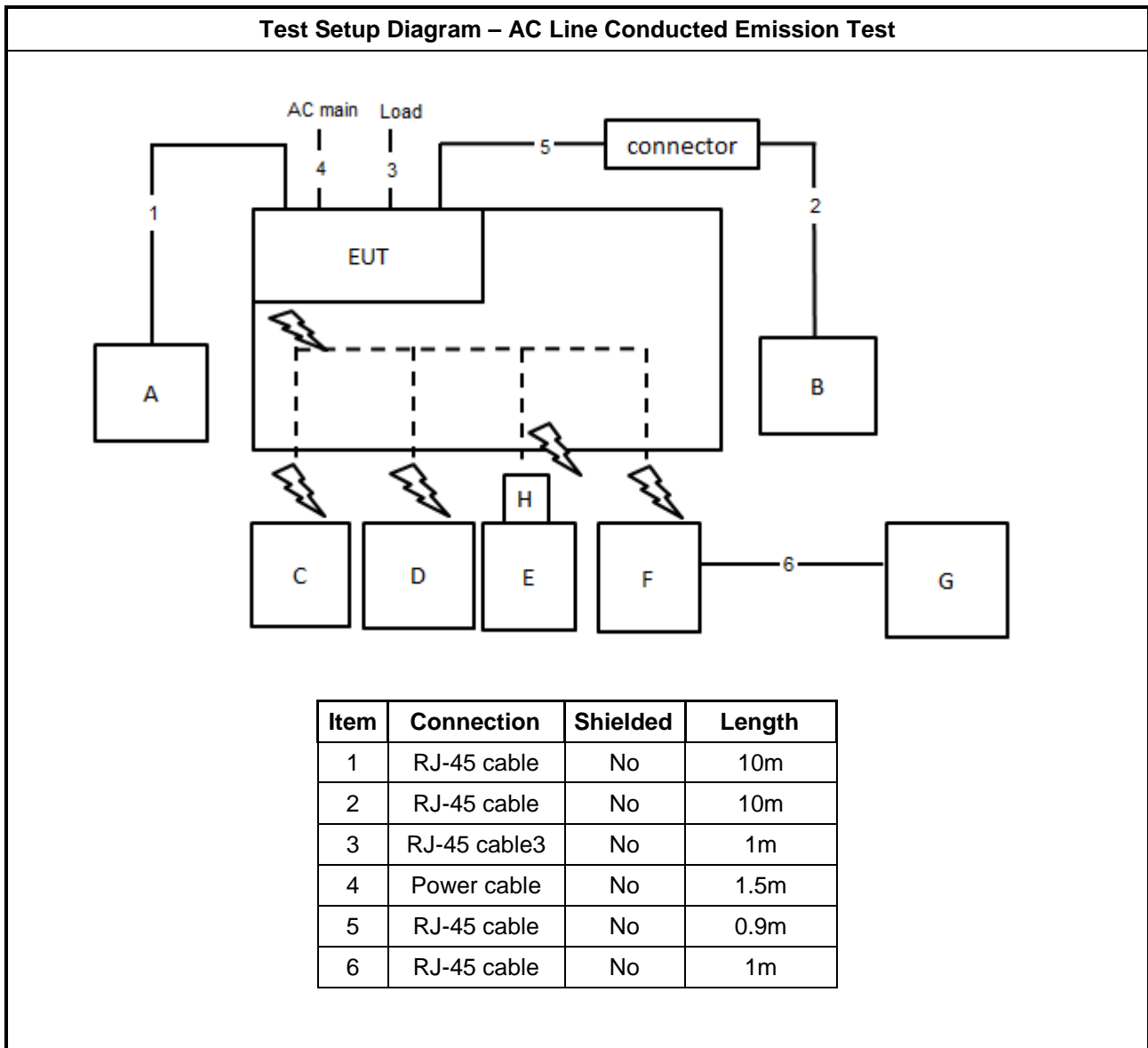
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

<Beamforming mode>

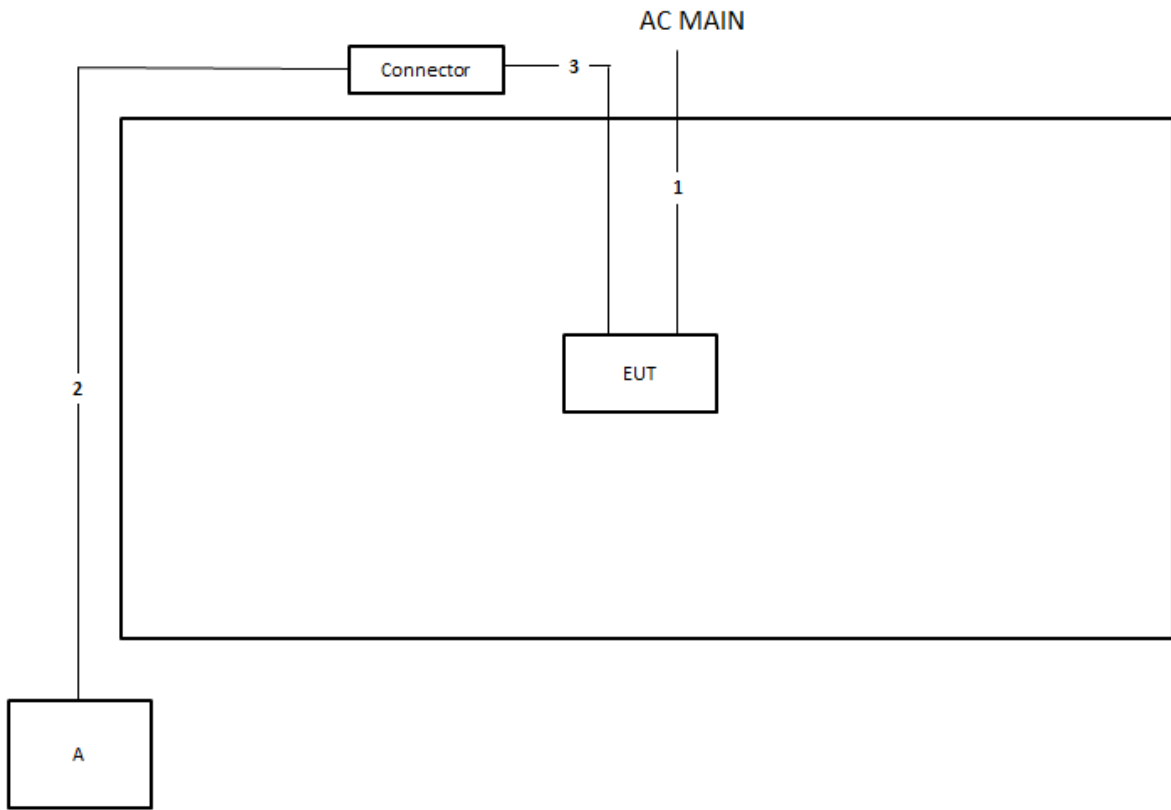
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	Lenovo	L440	N/A
C	Client	Linksys	MX6000	N/A



## 2.6 Test Setup Diagram

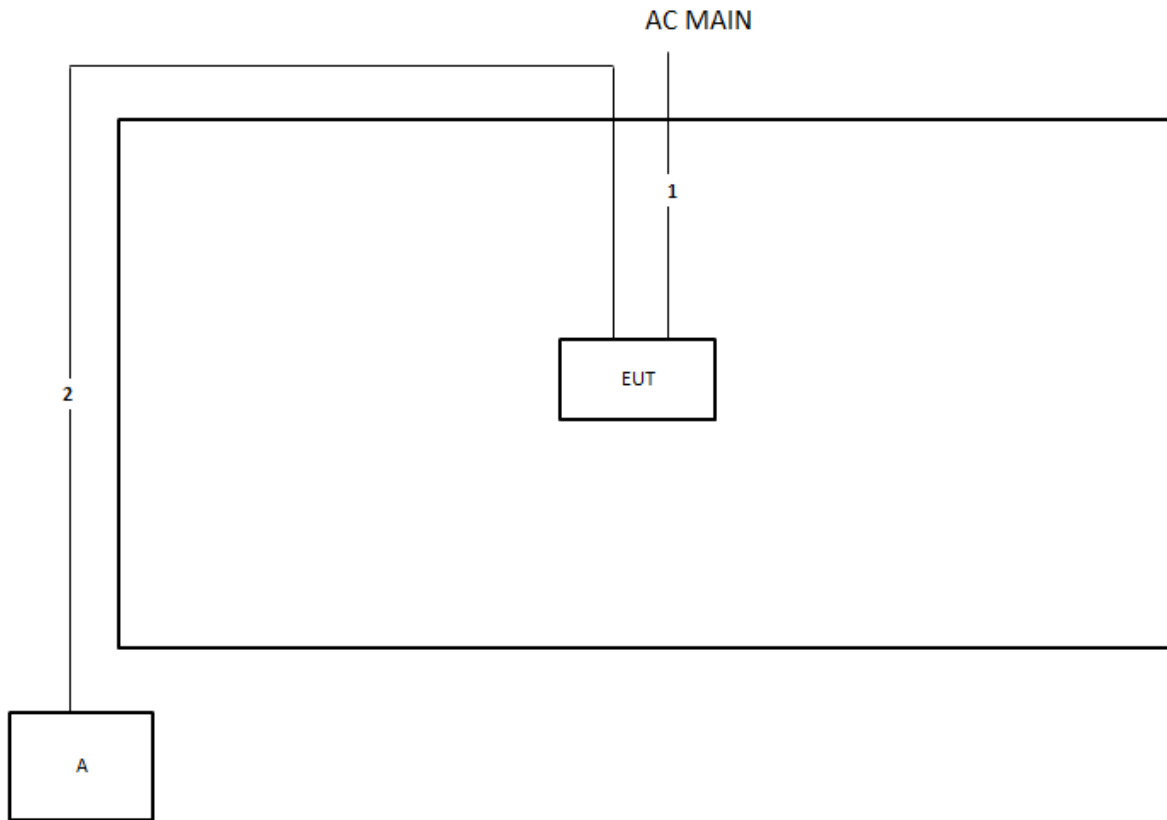


**Test Setup Diagram - Radiated Test < 1GHz**

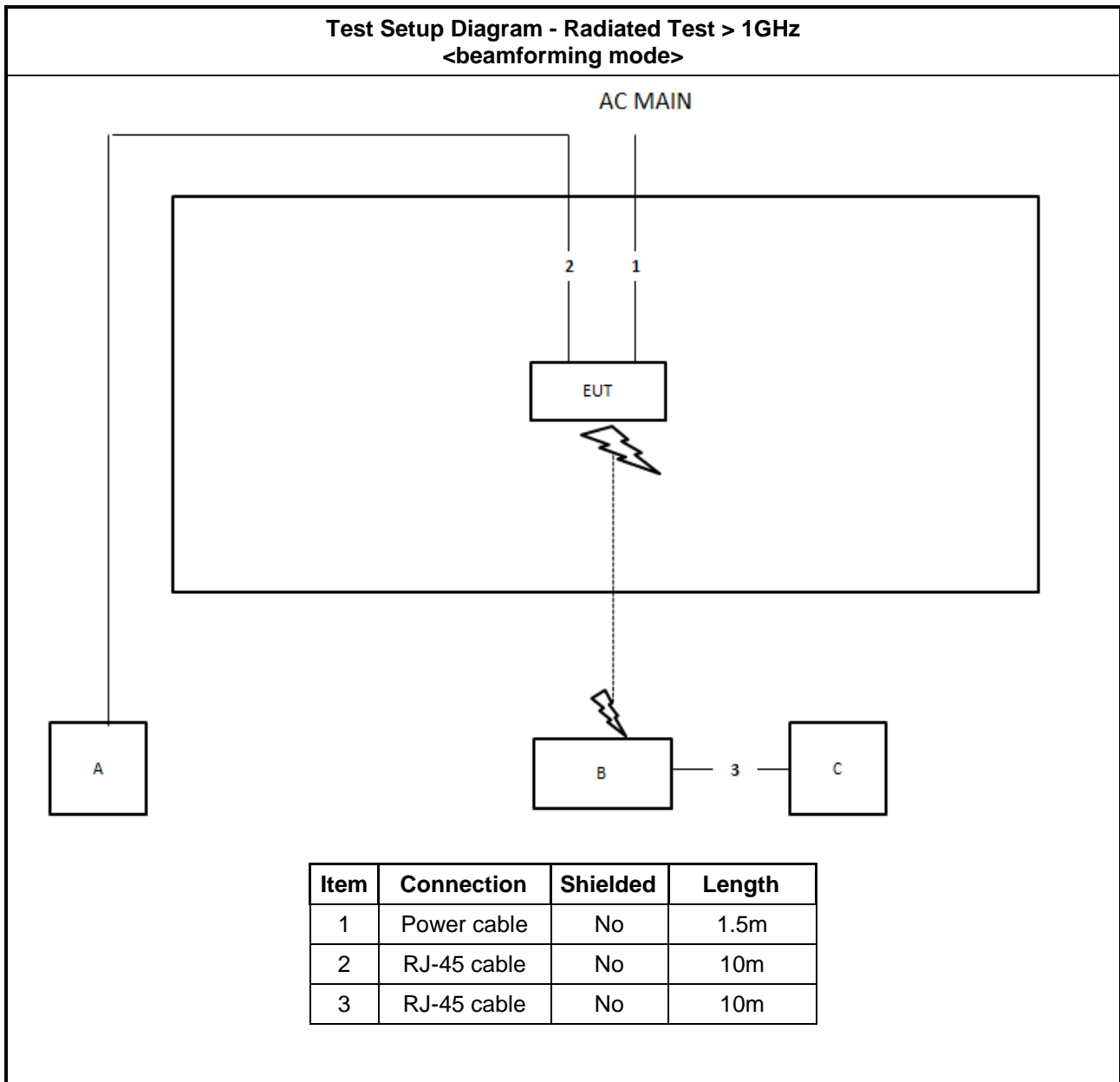


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	0.9m

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



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





### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

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

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

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

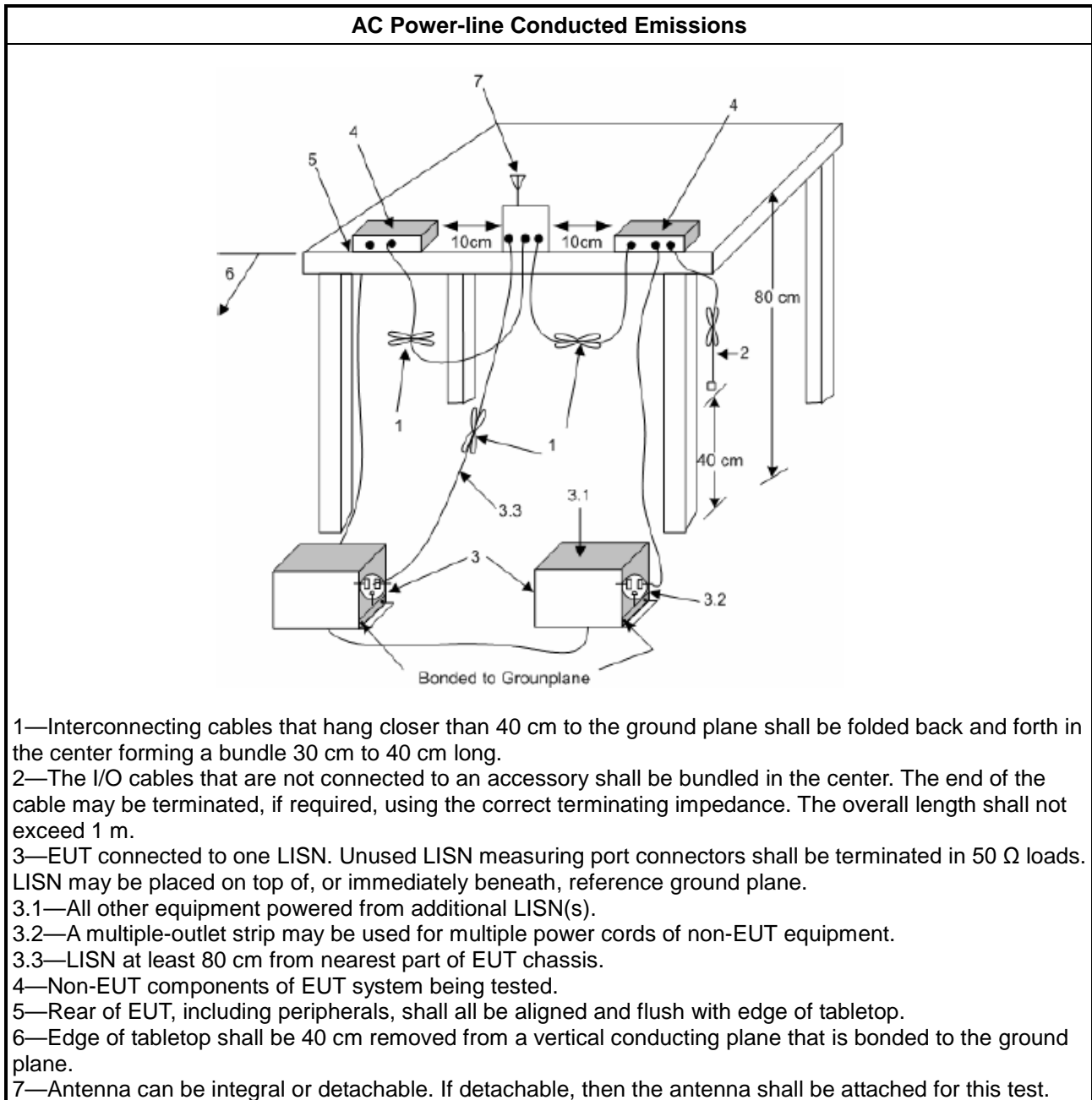
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

Test Method
<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:

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

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

Refer as Appendix A

### 3.2 DTS Bandwidth

#### 3.2.1 6dB Bandwidth Limit

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

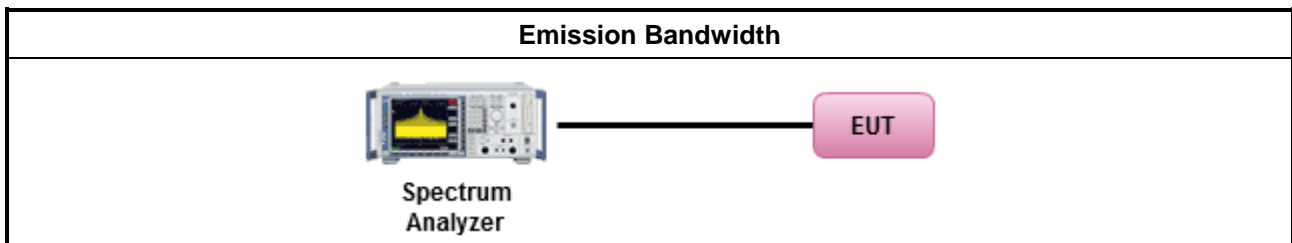
#### 3.2.2 Measuring Instruments

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>
$P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm, $G_{TX}$ = the maximum transmitting antenna directional gain in dBi.	

#### 3.3.2 Measuring Instruments

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

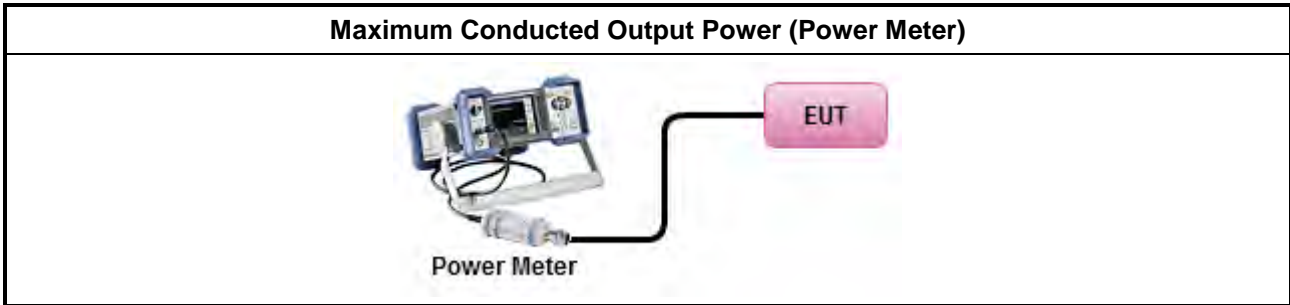




**3.3.3 Test Procedures**

Test Method	
<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>P_{total} = P_1 + P_2 + \dots + P_n</math>            (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>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>

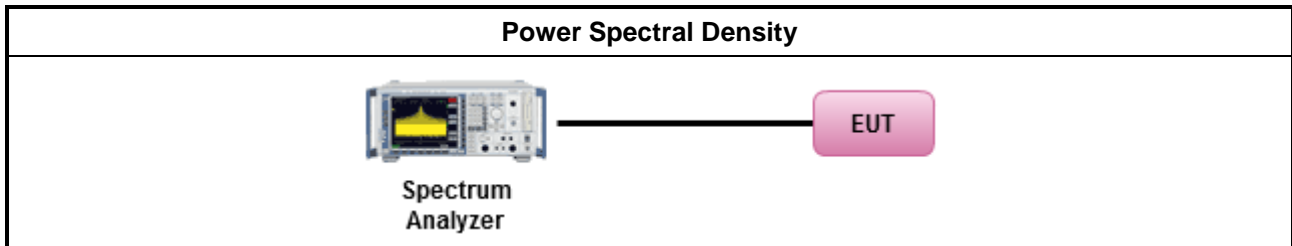
#### 3.4.2 Measuring Instruments

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.

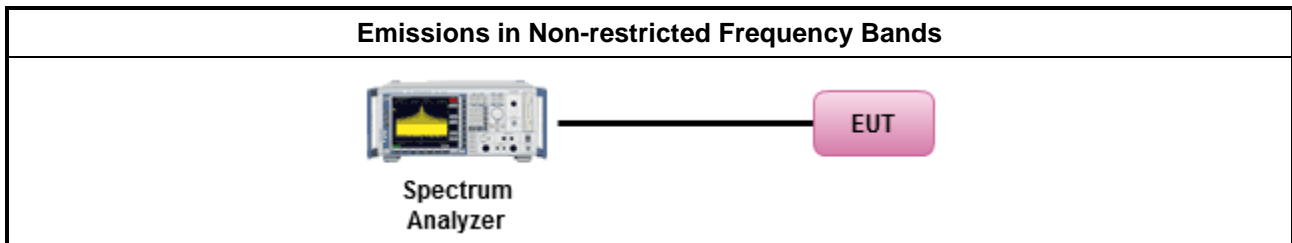
#### 3.5.2 Measuring Instruments

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

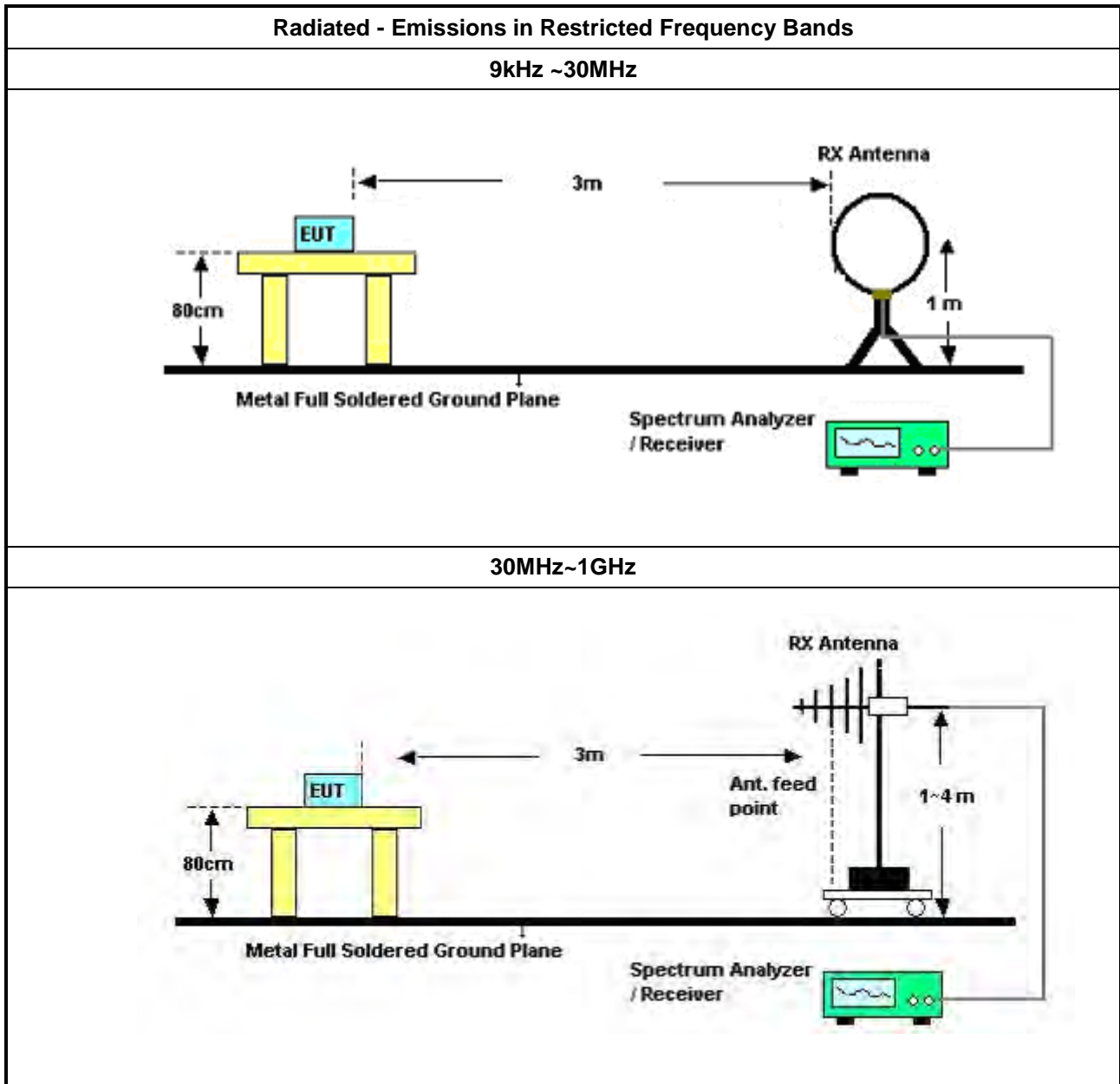
Refer a test equipment and calibration data table in this test report.



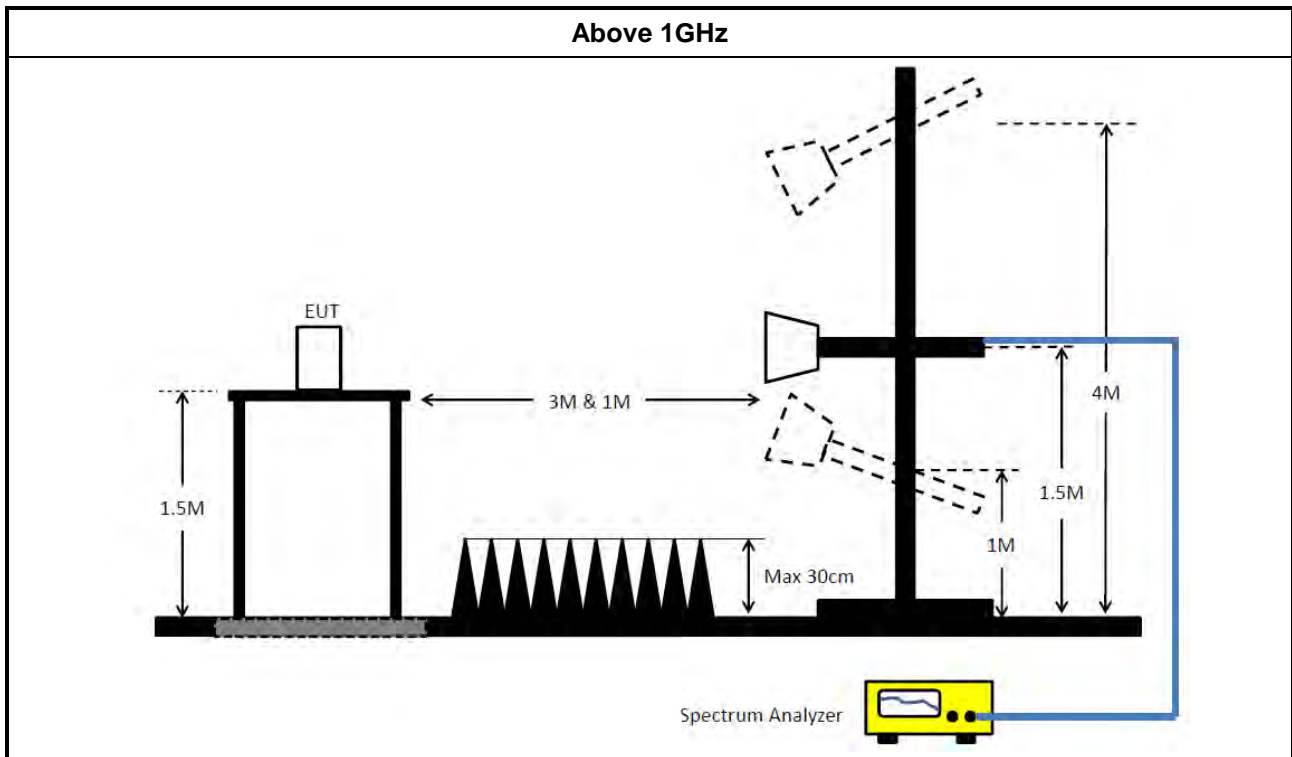
**3.6.3 Test Procedures**

<b>Test Method</b>	
<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle ≥ 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 ≥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≥1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 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	MY52260140	9kHz ~ 8.4GHz	May 06, 2022	May 05, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 16, 2023	Feb. 15, 2024	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. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 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 (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 04, 2022	Aug. 03, 2023	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Sep. 30, 2022	Sep. 29, 2023	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 31, 2022	Jul. 30, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Aug. 09, 2022	Aug. 08, 2023	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 04, 2022	Nov. 03, 2023	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug 02, 2022	Aug 01, 2023	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-24+68	30MHz~1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-68	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Dec. 21, 2022	Dec. 20, 2023	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 05, 2022	May 04, 2023	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Feb. 03, 2023	Feb. 02, 2024	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 10, 2022	Jun. 09, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	May 27, 2022	May 26, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 04, 2022	Sep. 03, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 04, 2022	Sep. 03, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	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.

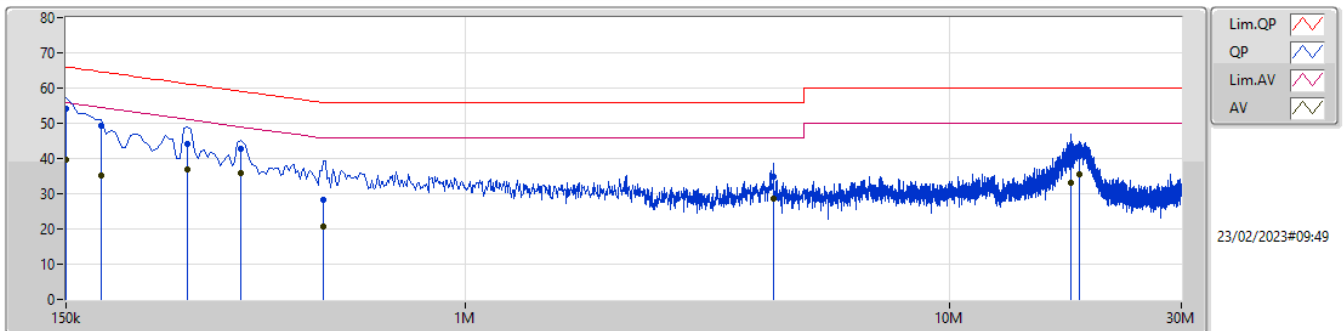
NCR means Non-Calibration required.



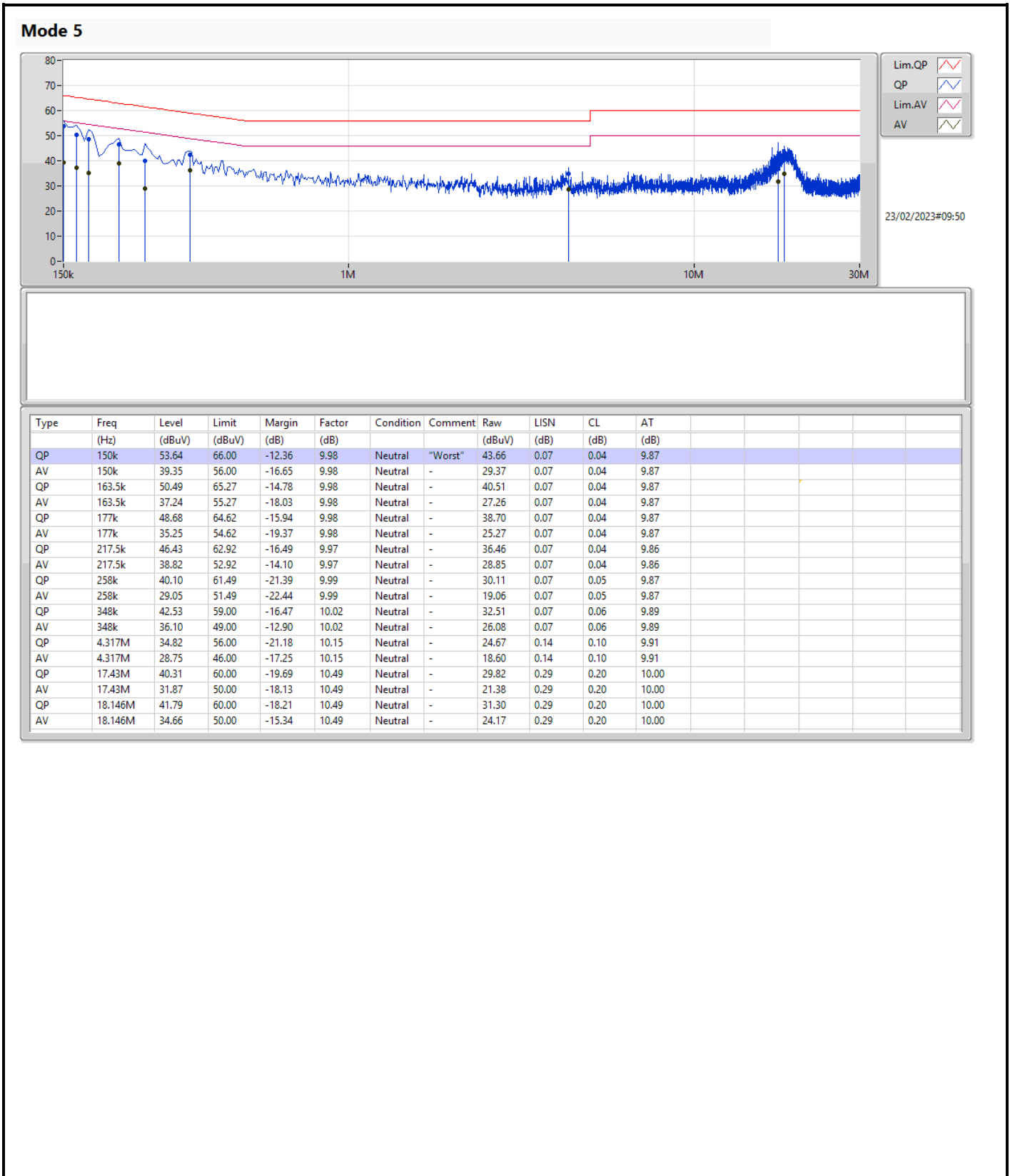
**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 5	Pass	QP	150k	54.20	66.00	-11.80	Line

Mode 5



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	150k	54.20	66.00	-11.80	9.97	Line	"Worst"	44.23	0.06	0.04	9.87
AV	150k	39.64	56.00	-16.36	9.97	Line	-	29.67	0.06	0.04	9.87
QP	177k	49.19	64.62	-15.43	9.97	Line	-	39.22	0.06	0.04	9.87
AV	177k	35.26	54.62	-19.36	9.97	Line	-	25.29	0.06	0.04	9.87
QP	267k	44.02	61.20	-17.18	9.99	Line	-	34.03	0.06	0.05	9.88
AV	267k	36.78	51.20	-14.42	9.99	Line	-	26.79	0.06	0.05	9.88
QP	343.5k	42.62	59.12	-16.50	10.01	Line	-	32.61	0.06	0.06	9.89
AV	343.5k	35.97	49.12	-13.15	10.01	Line	-	25.96	0.06	0.06	9.89
QP	510k	28.21	56.00	-27.79	10.01	Line	-	18.20	0.06	0.05	9.90
AV	510k	20.84	46.00	-25.16	10.01	Line	-	10.83	0.06	0.05	9.90
QP	4.317M	34.83	56.00	-21.17	10.14	Line	-	24.69	0.13	0.10	9.91
AV	4.317M	28.76	46.00	-17.24	10.14	Line	-	18.62	0.13	0.10	9.91
QP	17.759M	41.07	60.00	-18.93	10.49	Line	-	30.58	0.29	0.20	10.00
AV	17.759M	32.99	50.00	-17.01	10.49	Line	-	22.50	0.29	0.20	10.00
QP	18.492M	42.37	60.00	-17.63	10.50	Line	-	31.87	0.29	0.21	10.00
AV	18.492M	35.47	50.00	-14.53	10.50	Line	-	24.97	0.29	0.21	10.00





**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	7.575M	13.275M	13M3G1D	7.125M	12.957M
802.11g_Nss1,(6Mbps)_2TX	16.3M	16.779M	16M8D1D	16M	16.354M

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

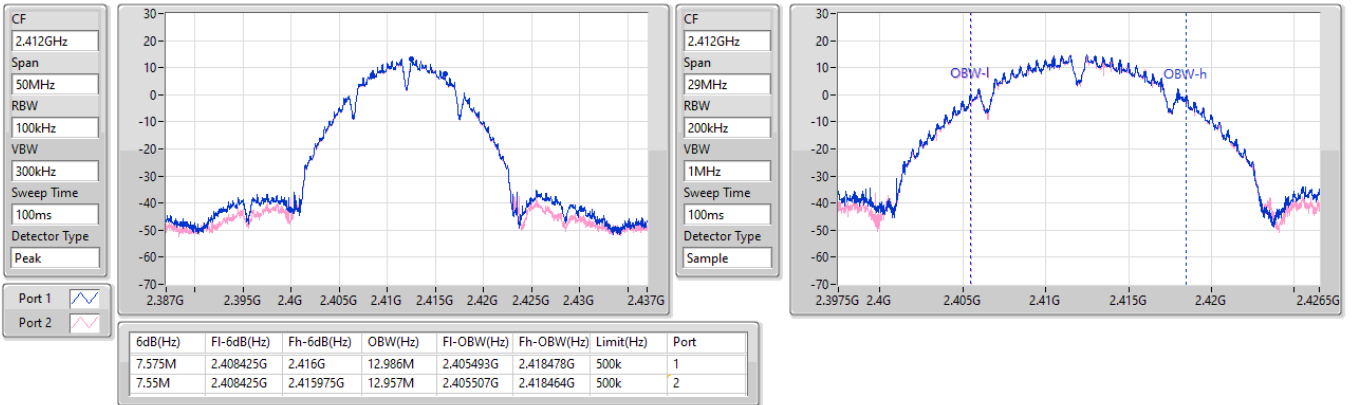
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.575M	12.986M	7.55M	12.957M
2437MHz	Pass	500k	7.575M	13.275M	7.55M	13.174M
2462MHz	Pass	500k	7.525M	13.043M	7.125M	13M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.275M	16.354M	16.275M	16.397M
2437MHz	Pass	500k	16.025M	16.779M	16.05M	16.652M
2462MHz	Pass	500k	16M	16.376M	16.3M	16.418M

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

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX  
2412MHz

EBW

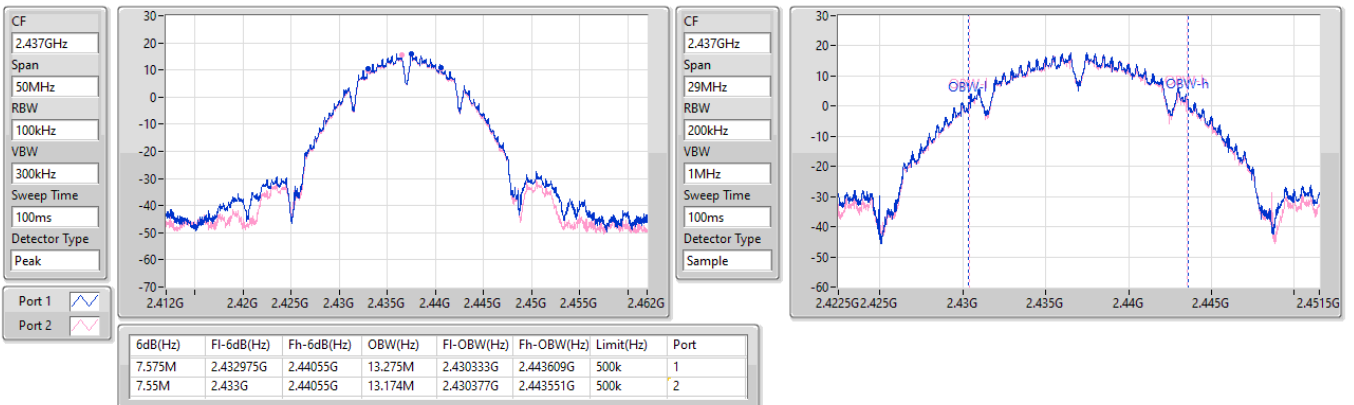
14/12/2022



2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX  
2437MHz

EBW

14/12/2022

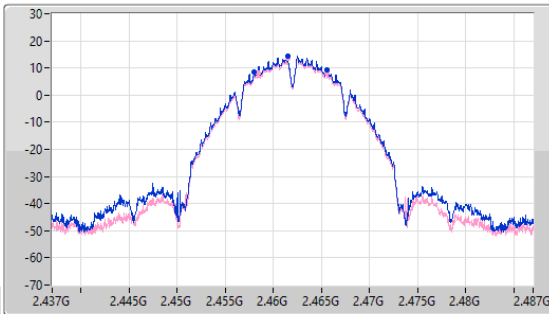


2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX  
2462MHz

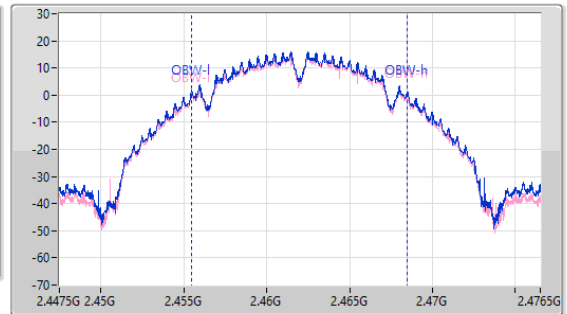
EBW

14/12/2022

CF: 2.462GHz  
Span: 50MHz  
RBW: 100kHz  
VBW: 300kHz  
Sweep Time: 100ms  
Detector Type: Peak



CF: 2.462GHz  
Span: 29MHz  
RBW: 200kHz  
VBW: 1MHz  
Sweep Time: 100ms  
Detector Type: Sample



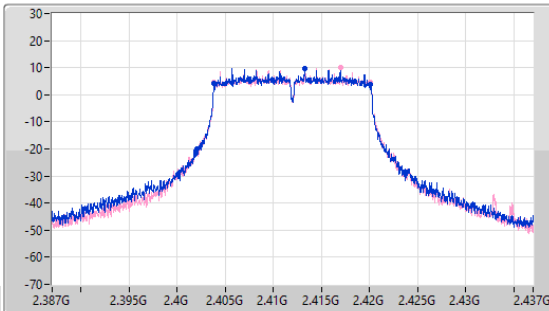
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.525M	2.458025G	2.46555G	13.043M	2.455449G	2.468493G	500k	1
7.125M	2.458425G	2.46555G	13M	2.455464G	2.468464G	500k	2

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX  
2412MHz

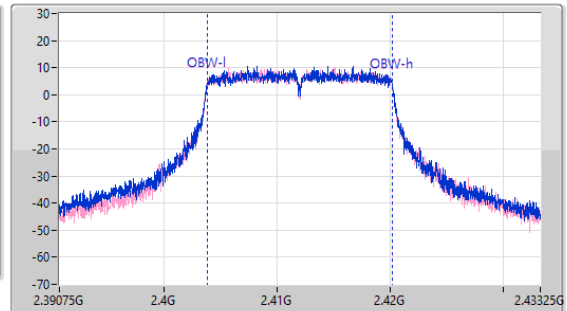
EBW

14/12/2022

CF: 2.412GHz  
Span: 50MHz  
RBW: 100kHz  
VBW: 300kHz  
Sweep Time: 100ms  
Detector Type: Peak



CF: 2.412GHz  
Span: 42.5MHz  
RBW: 200kHz  
VBW: 1MHz  
Sweep Time: 100ms  
Detector Type: Sample

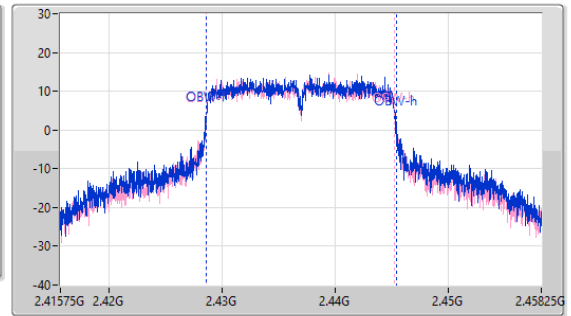
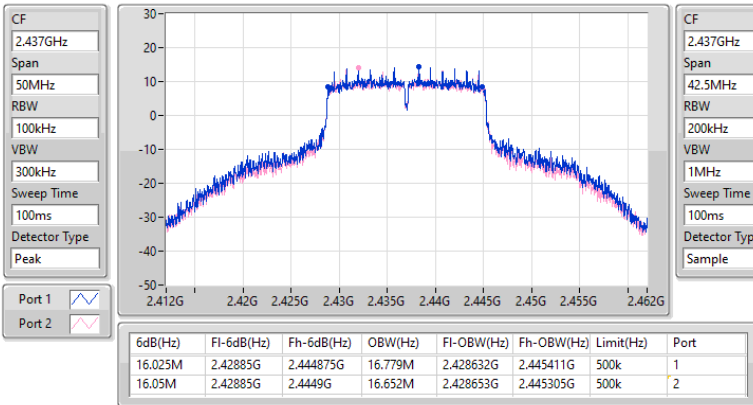


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.275M	2.40385G	2.420125G	16.354M	2.403802G	2.420156G	500k	1
16.275M	2.40385G	2.420125G	16.397M	2.40378G	2.420177G	500k	2

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX  
2437MHz

EBW

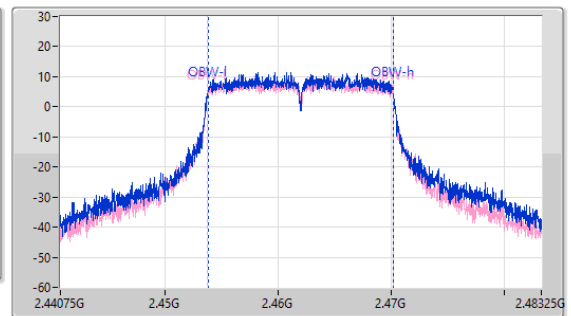
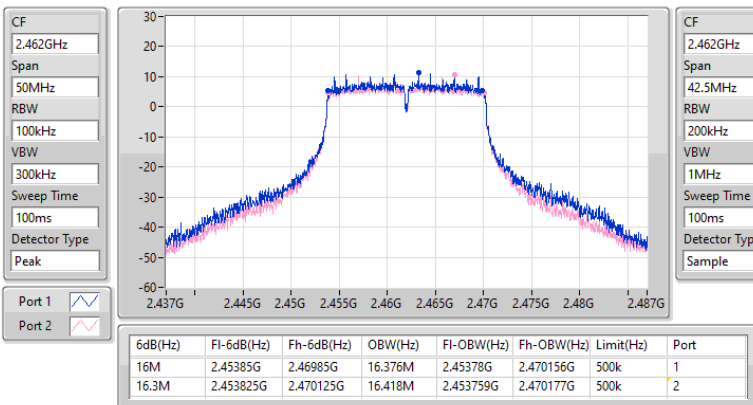
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2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX  
2462MHz

EBW

14/12/2022





**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	18.9M	19.002M	19M0D1D	18.425M	18.88M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.8M	37.711M	37M7D1D	27.6M	37.662M

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**

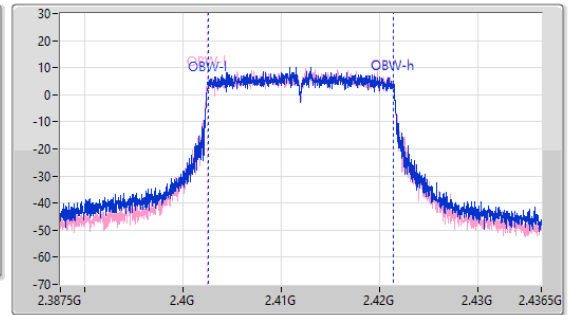
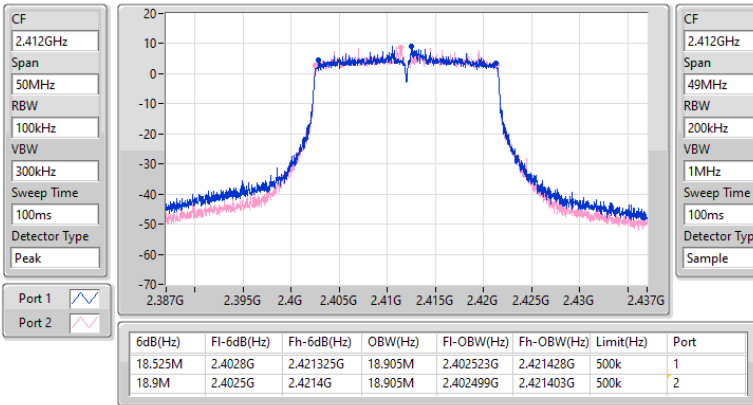
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.525M	18.905M	18.9M	18.905M
2437MHz	Pass	500k	18.425M	19.002M	18.9M	18.978M
2462MHz	Pass	500k	18.625M	18.88M	18.8M	18.88M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	27.6M	37.662M	35.4M	37.662M
2437MHz	Pass	500k	31.35M	37.662M	36.85M	37.711M
2452MHz	Pass	500k	36.65M	37.662M	37.8M	37.662M

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

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX  
2412MHz

EBW

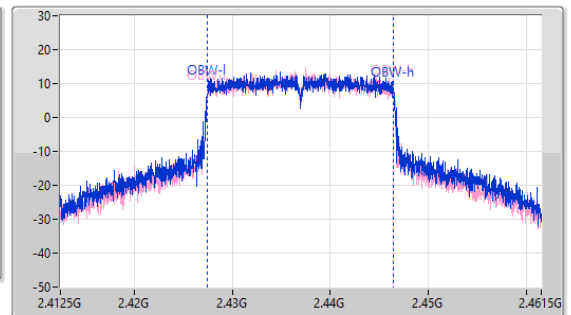
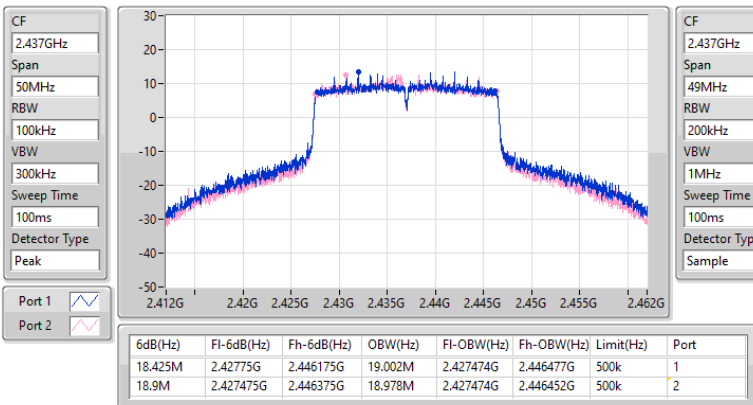
14/12/2022



2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX  
2437MHz

EBW

14/12/2022

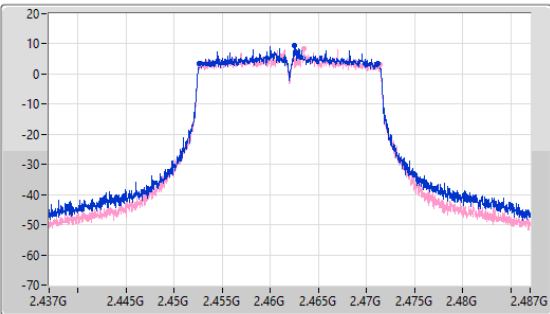


2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX  
2462MHz

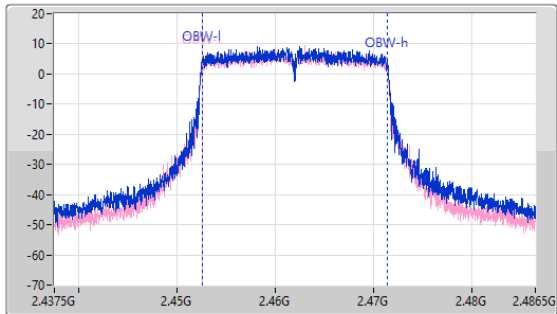
EBW

14/12/2022

CF  
2.462GHz  
Span  
50MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
2.462GHz  
Span  
49MHz  
RBW  
200kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Sample



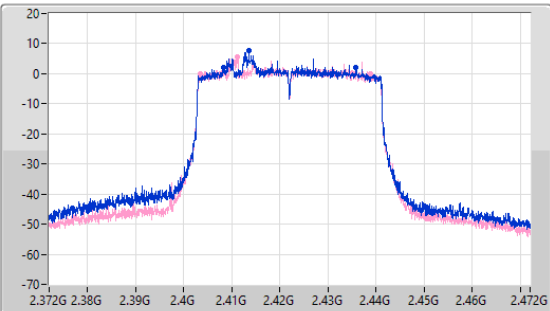
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.625M	2.45255G	2.471175G	18.88M	2.452548G	2.471428G	500k	1
18.8M	2.452575G	2.471375G	18.88M	2.452523G	2.471403G	500k	2

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX  
2422MHz

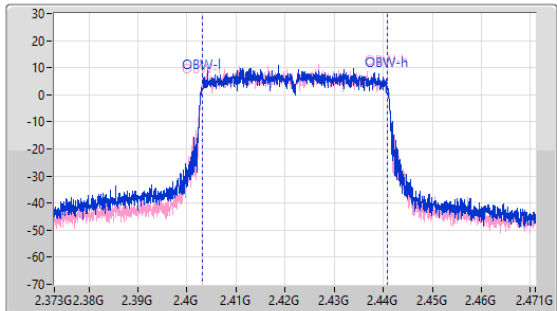
EBW

14/12/2022

CF  
2.422GHz  
Span  
100MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
2.422GHz  
Span  
98MHz  
RBW  
500kHz  
VBW  
2MHz  
Sweep Time  
100ms  
Detector Type  
Sample



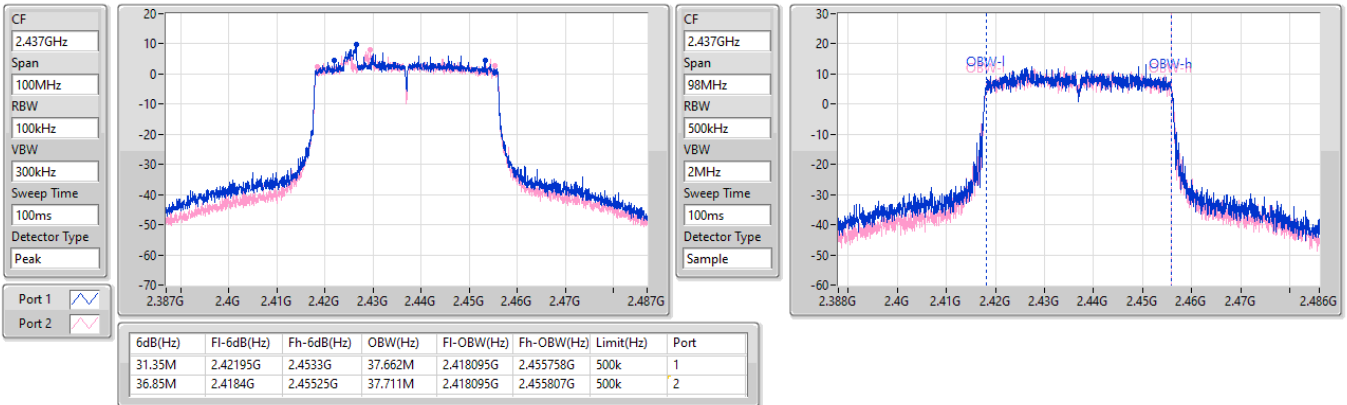
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.6M	2.4082G	2.4358G	37.662M	2.403144G	2.440807G	500k	1
35.4M	2.40335G	2.43875G	37.662M	2.403144G	2.440807G	500k	2



2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX  
2437MHz

EBW

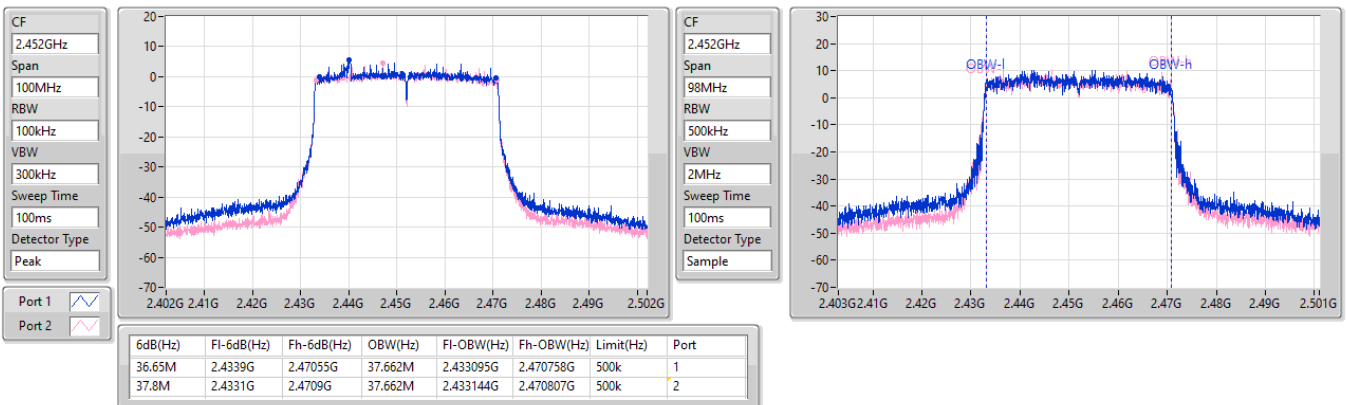
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2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX  
2452MHz

EBW

14/12/2022





## Average Power <Non-beamforming mode>

## Appendix C.1

### Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	28.73	0.74645
802.11g_Nss1,(6Mbps)_2TX	28.18	0.65766



## Average Power <Non-beamforming mode>

## Appendix C.1

### Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.626	23.00	22.90	25.96	30.00
2437MHz	Pass	2.626	25.86	25.58	28.73	30.00
2462MHz	Pass	2.626	24.10	23.34	26.75	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.626	21.41	21.27	24.35	30.00
2417MHz	Pass	2.626	22.80	22.61	25.72	30.00
2437MHz	Pass	2.626	25.28	25.05	28.18	30.00
2457MHz	Pass	2.626	22.73	22.12	25.45	30.00
2462MHz	Pass	2.626	22.49	21.71	25.13	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	27.56	0.57016
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.19	0.26242



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	5.636	20.28	19.99	23.15	30.00
2417MHz	Pass	5.636	21.76	22.05	24.92	30.00
2437MHz	Pass	5.636	24.69	24.41	27.56	30.00
2457MHz	Pass	5.636	21.84	21.58	24.72	30.00
2462MHz	Pass	5.636	20.38	19.77	23.10	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.636	18.99	19.21	22.11	30.00
2437MHz	Pass	5.636	21.36	21.00	24.19	30.00
2452MHz	Pass	5.636	19.38	18.92	22.17	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	4.12
802.11g_Nss1,(6Mbps)_2TX	-0.62

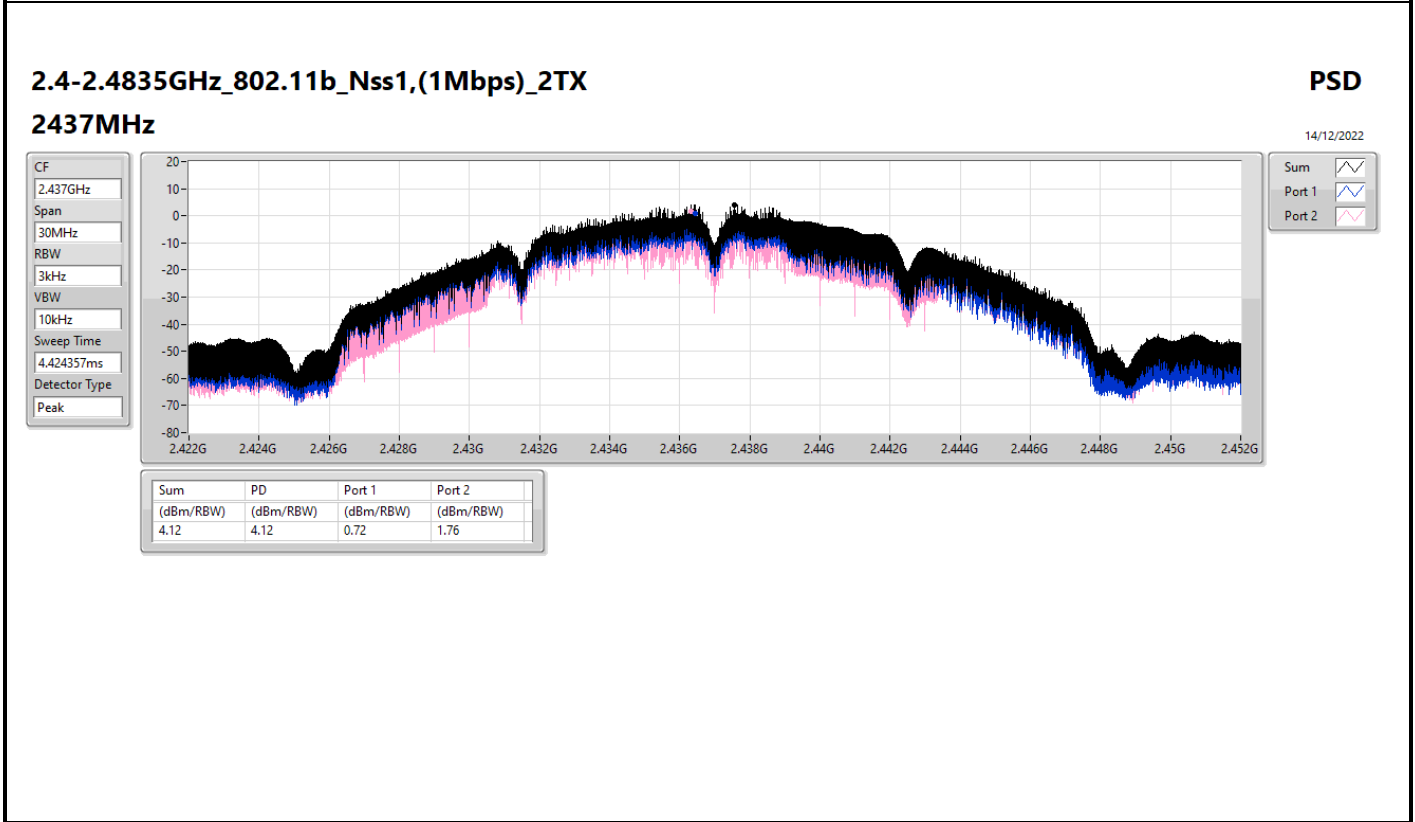
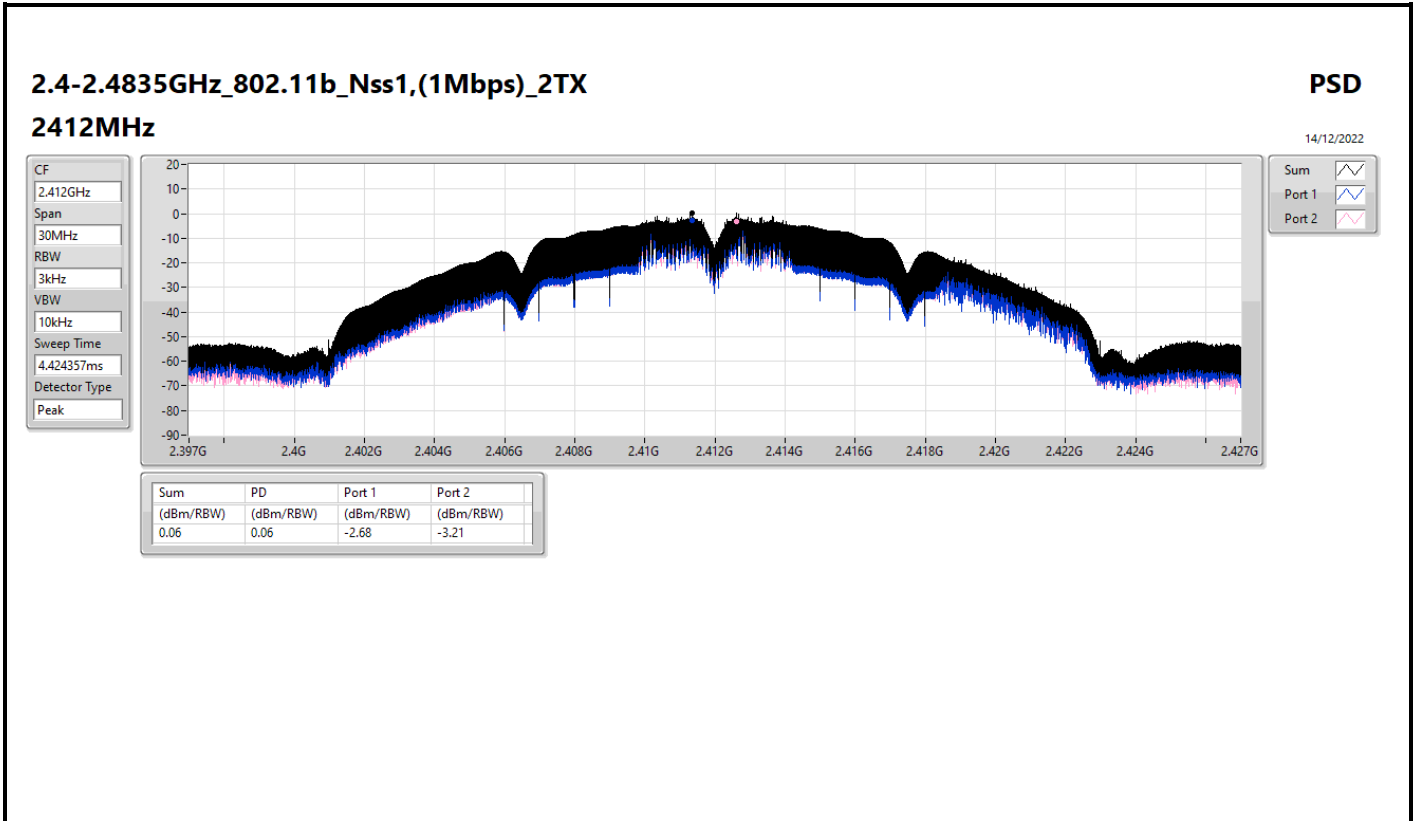
RBW = 3kHz;



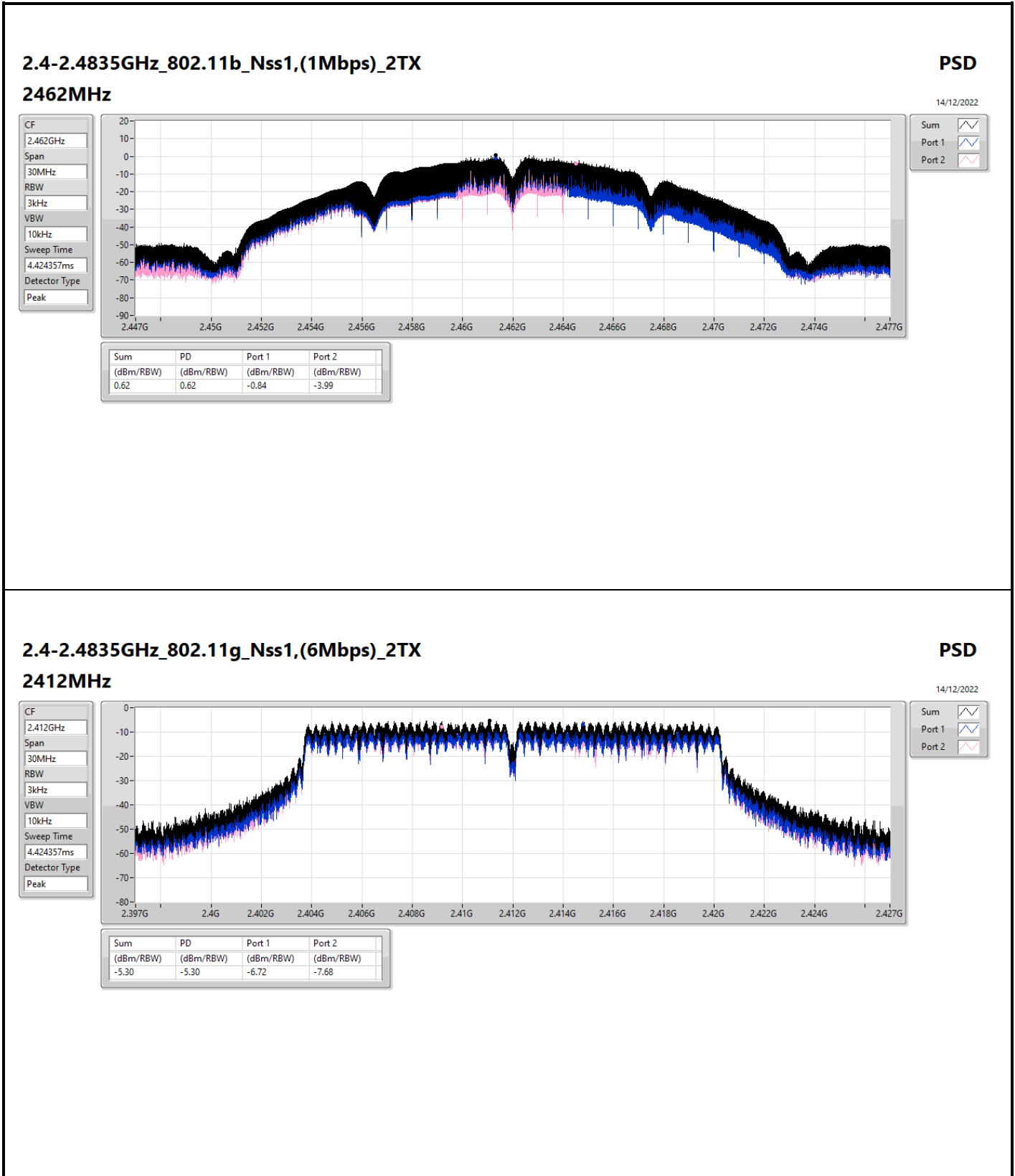
Result

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	5.636	-2.68	-3.21	0.06	8.00
2437MHz	Pass	5.636	0.72	1.76	4.12	8.00
2462MHz	Pass	5.636	-0.84	-3.99	0.62	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.636	-6.72	-7.68	-5.30	8.00
2437MHz	Pass	5.636	-1.76	-2.74	-0.62	8.00
2462MHz	Pass	5.636	-5.74	-6.48	-3.99	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;





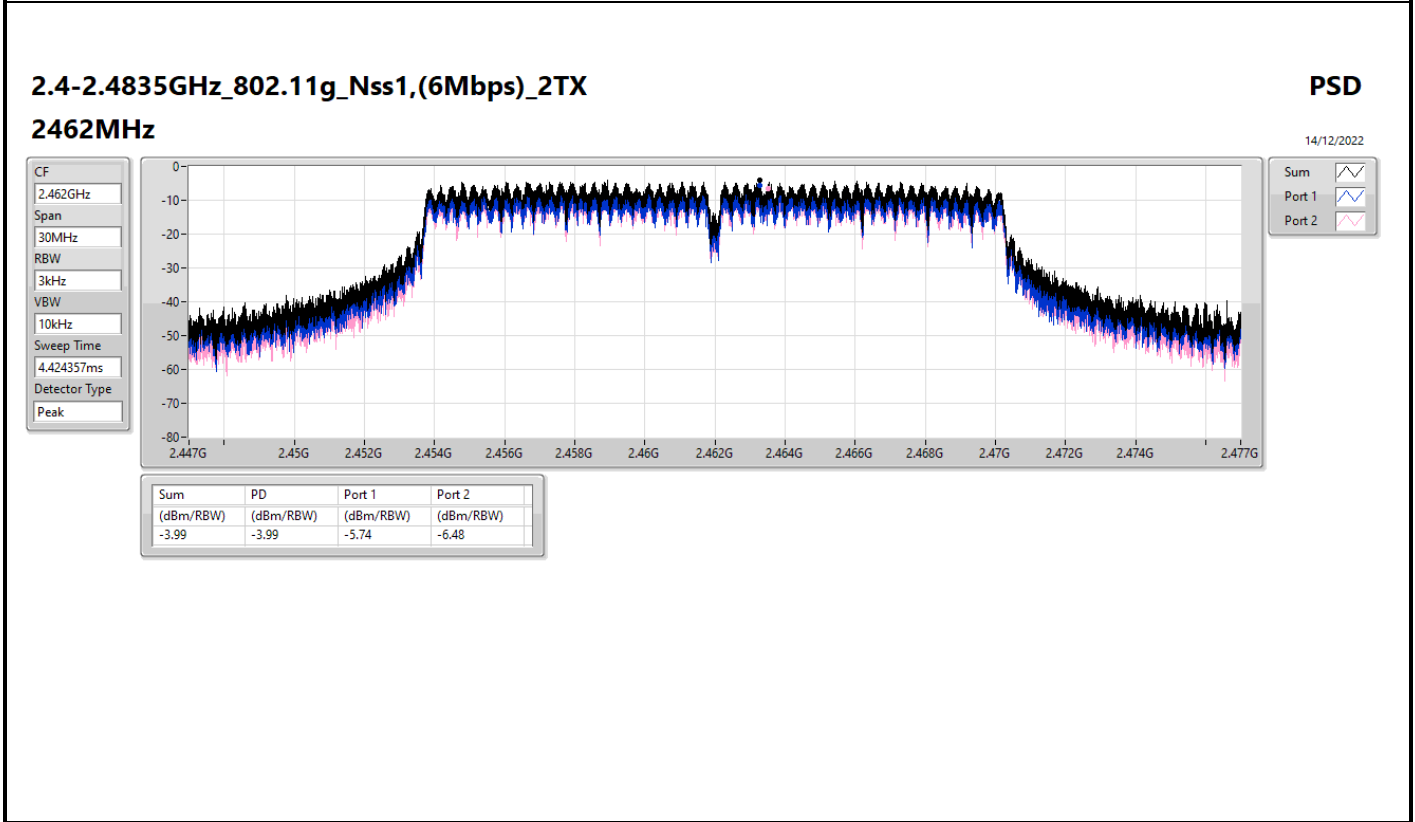
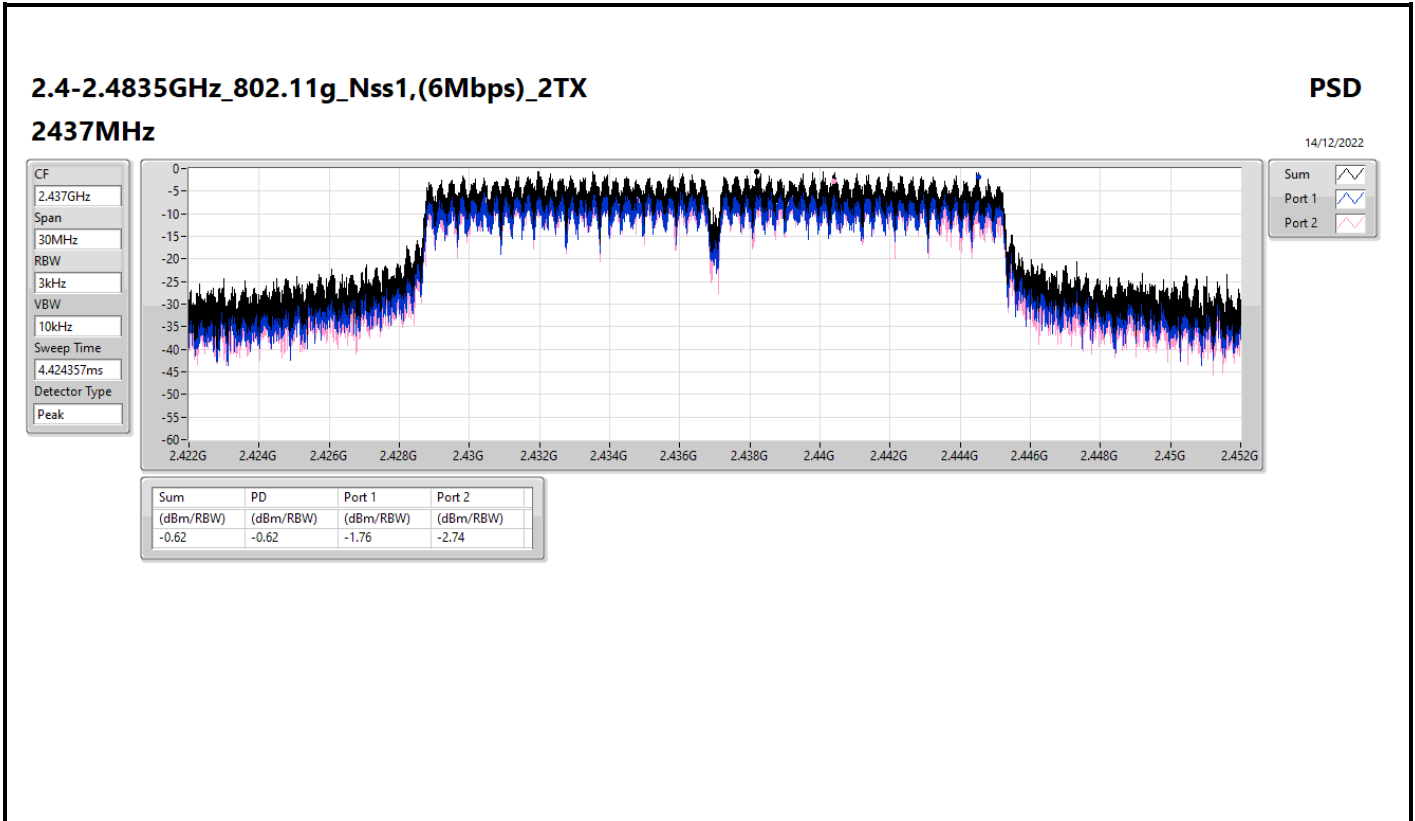


### 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

#### 2412MHz

PSD

14/12/2022





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.86
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-6.49

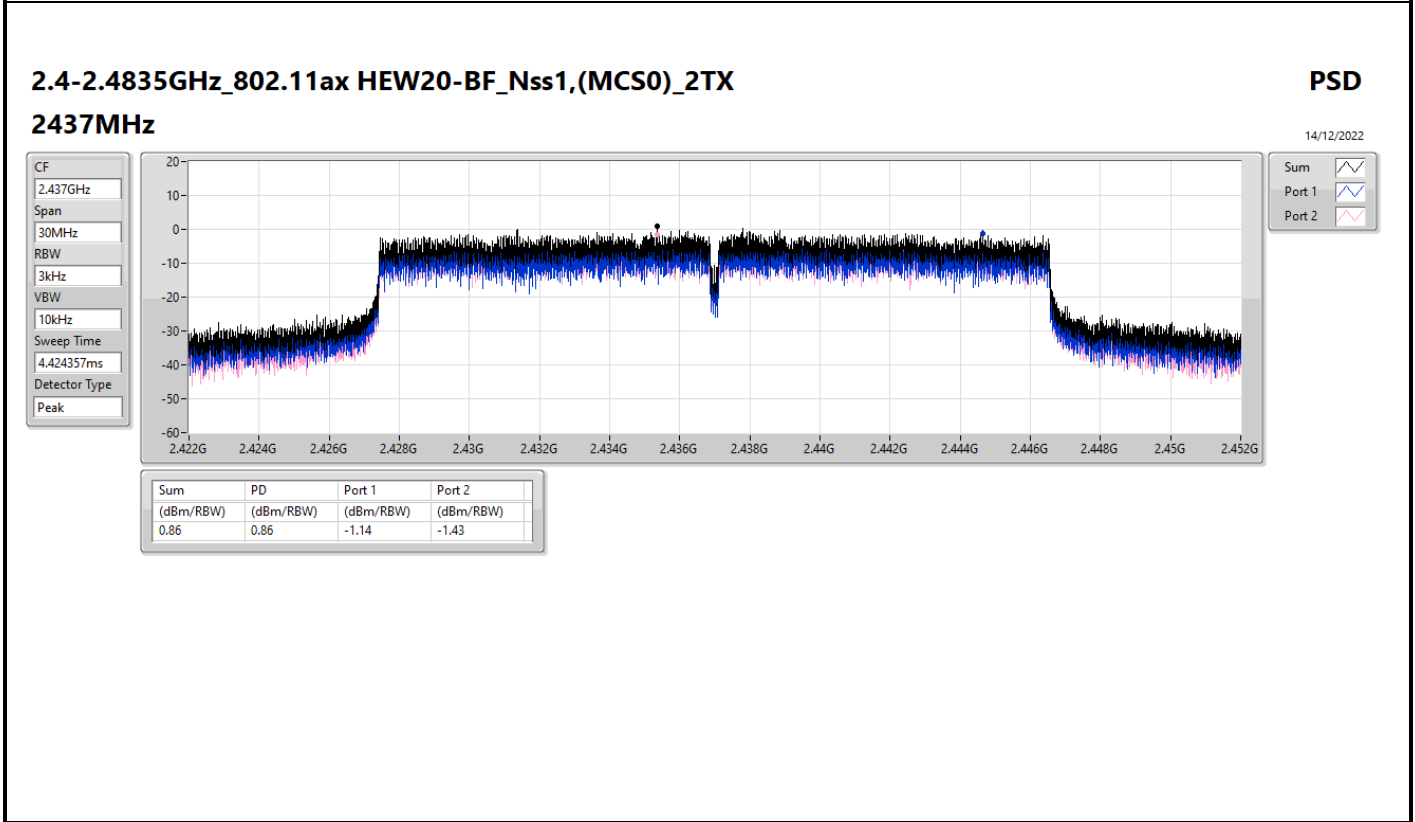
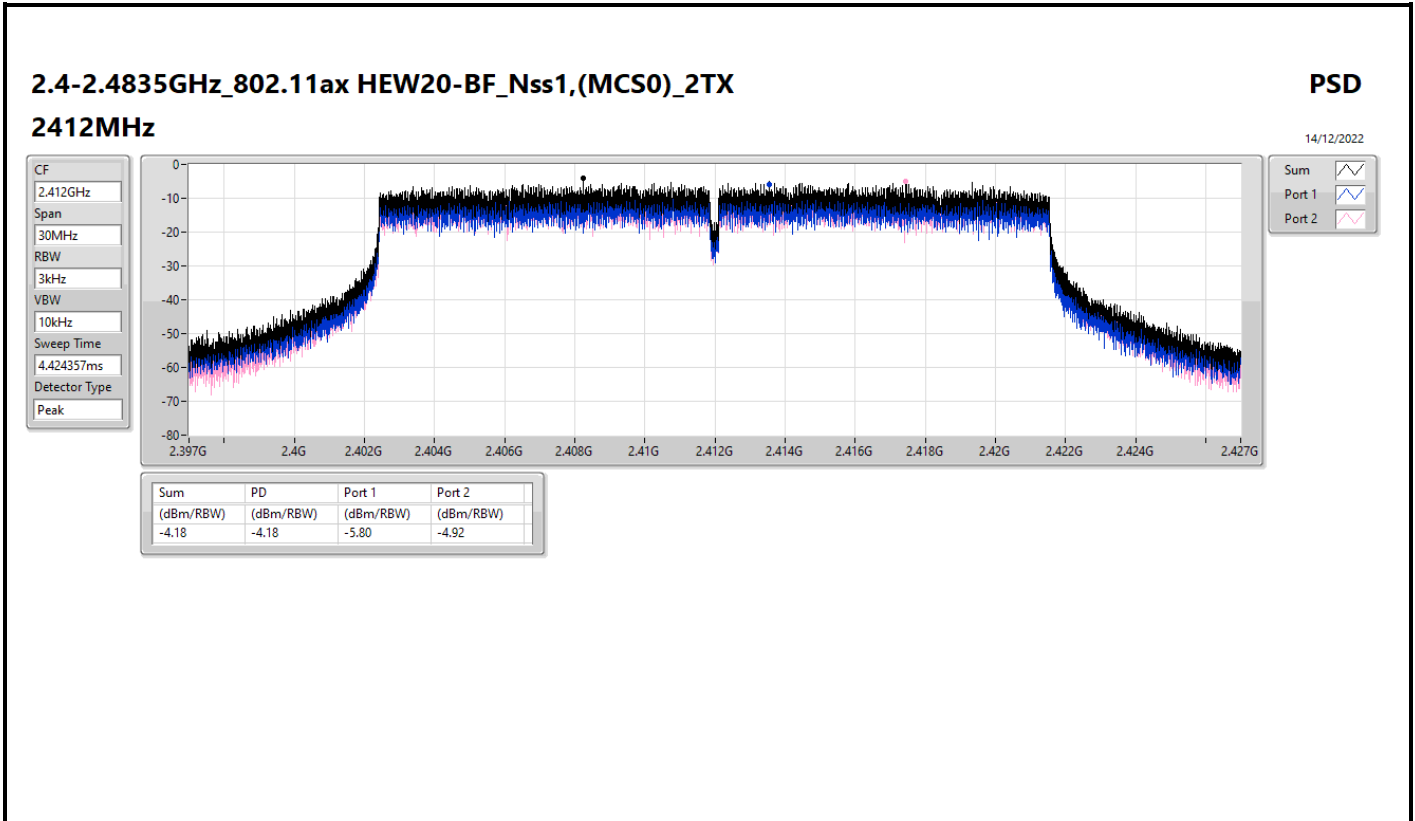
RBW = 3kHz;

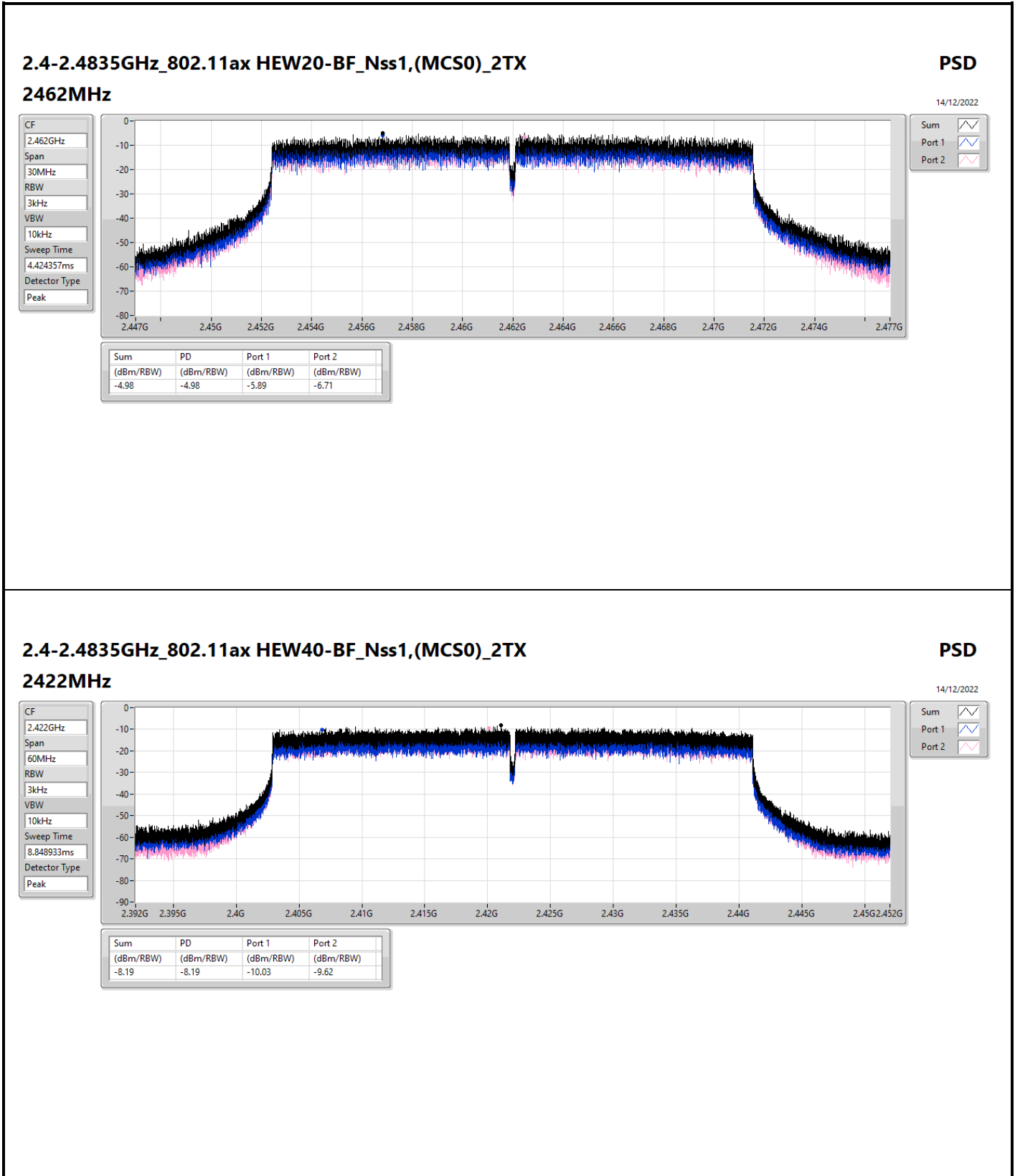


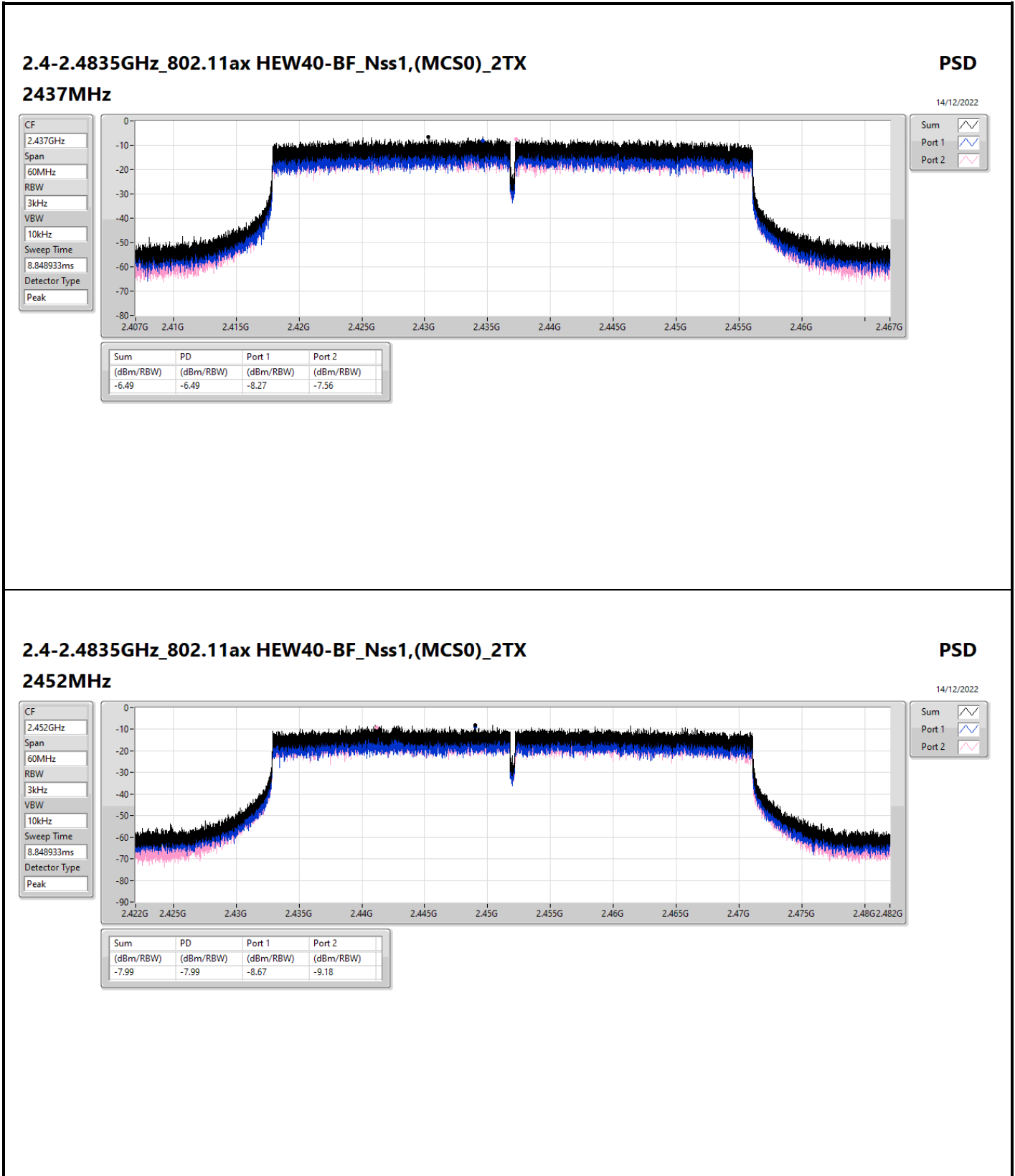
Result

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	5.636	-5.80	-4.92	-4.18	8.00
2437MHz	Pass	5.636	-1.14	-1.43	0.86	8.00
2462MHz	Pass	5.636	-5.89	-6.71	-4.98	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.636	-10.03	-9.62	-8.19	8.00
2437MHz	Pass	5.636	-8.27	-7.56	-6.49	8.00
2452MHz	Pass	5.636	-8.67	-9.18	-7.99	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;









Summary

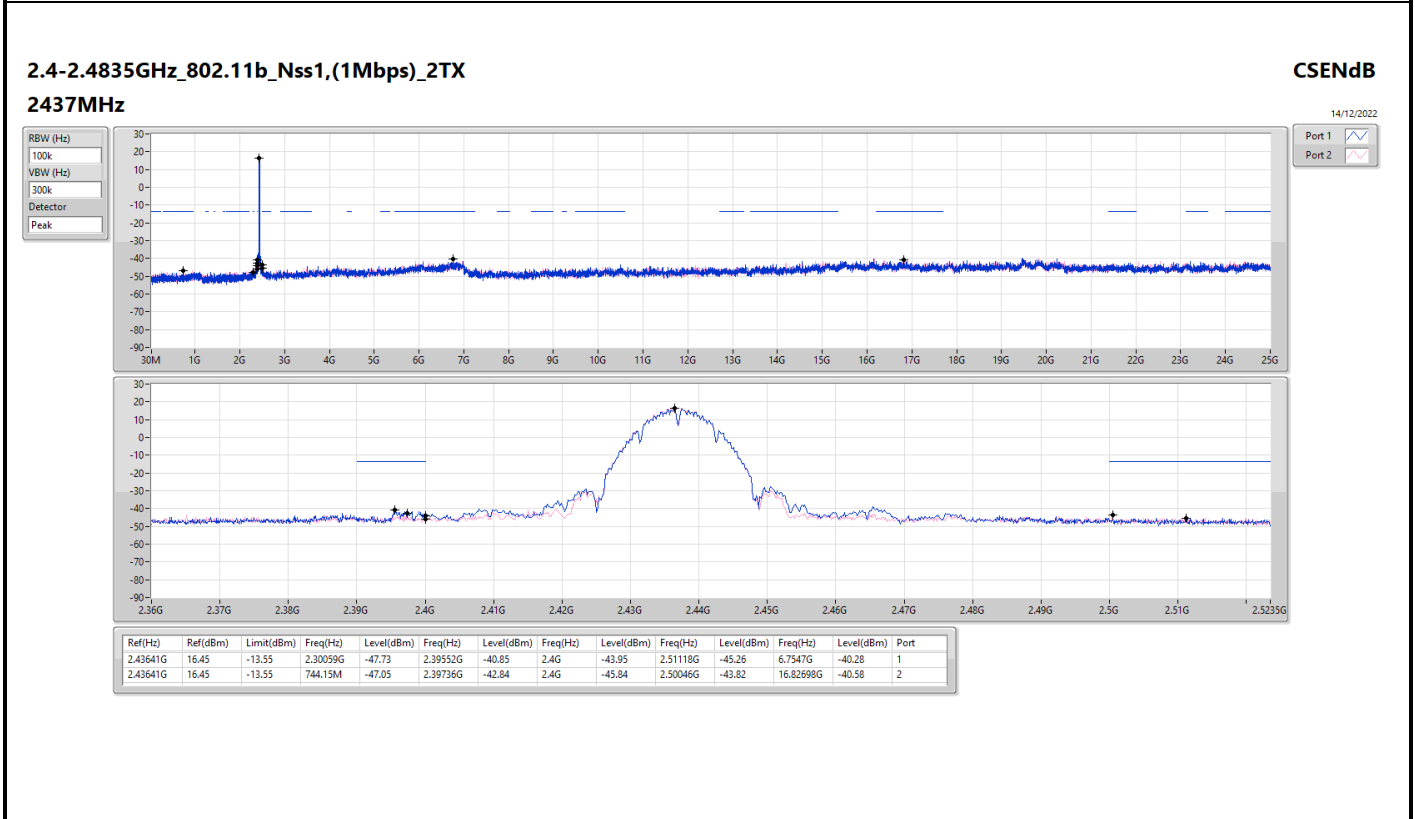
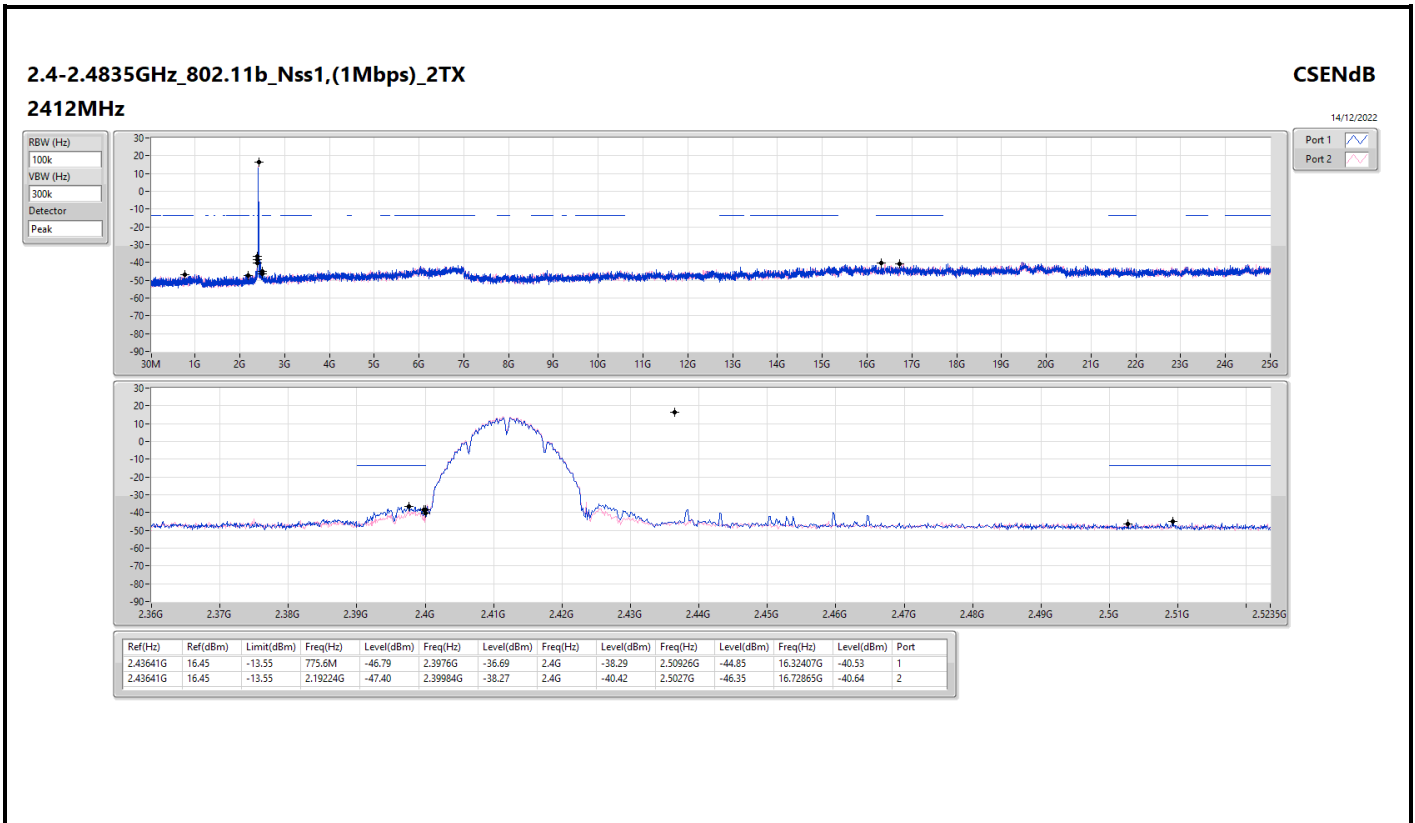
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43641G	16.45	-13.55	775.6M	-46.79	2.3976G	-36.69	2.4G	-38.29	2.50926G	-44.85	16.32407G	-40.53	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44192G	14.93	-15.07	501.83M	-46.56	2.39976G	-28.73	2.4G	-27.25	2.5103G	-45.86	6.85023G	-41.10	2

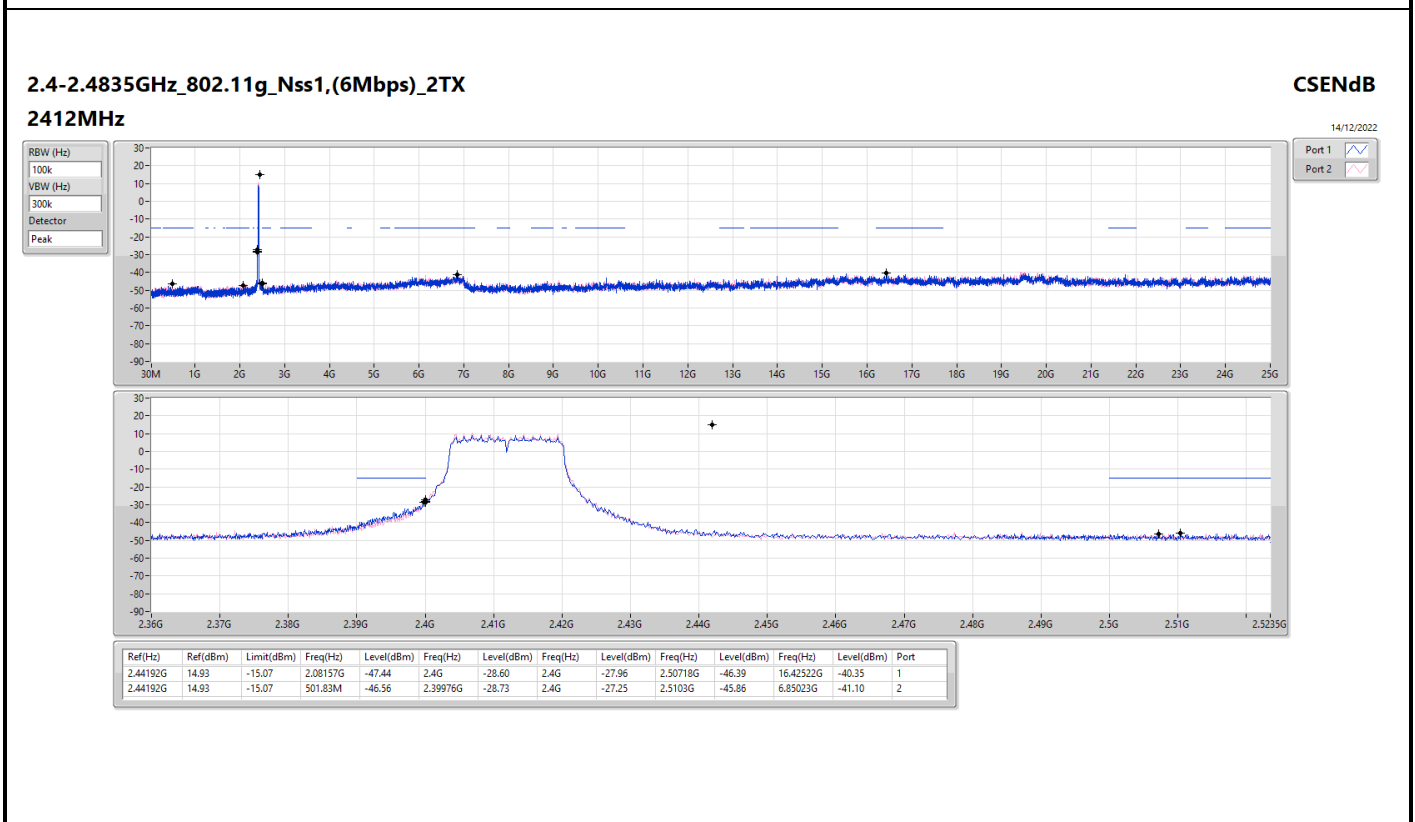
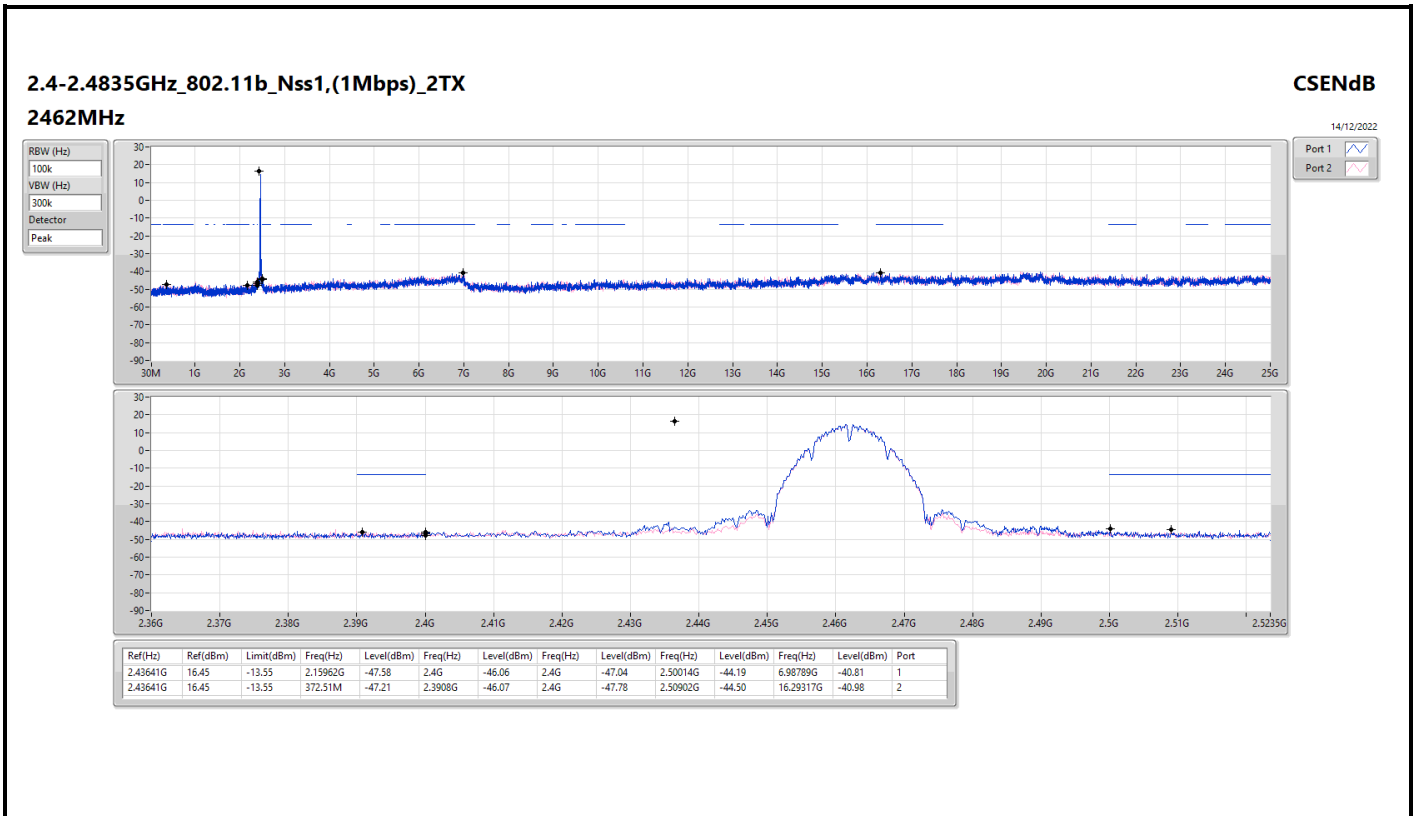


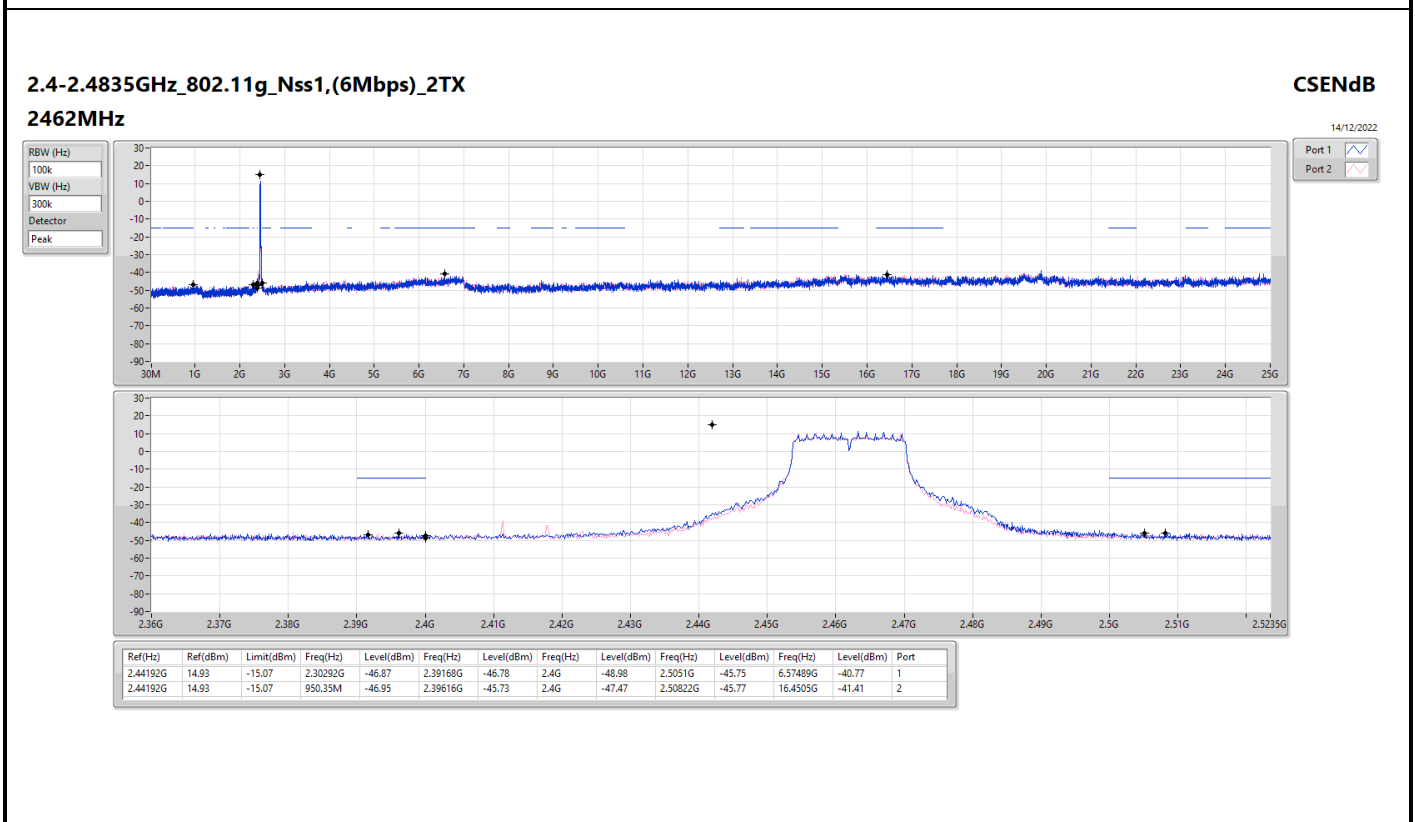
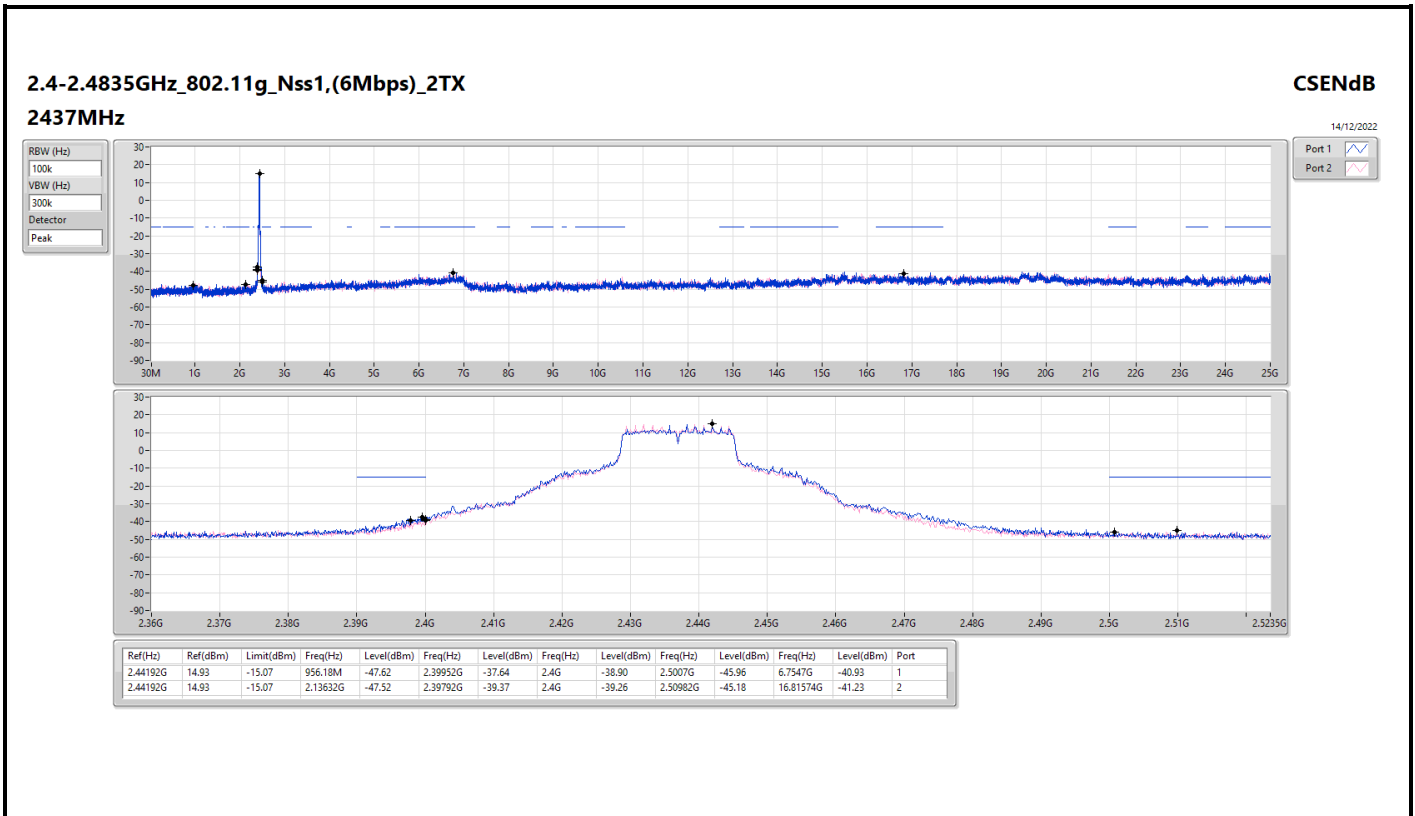


Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43641G	16.45	-13.55	775.6M	-46.79	2.3976G	-36.69	2.4G	-38.29	2.50926G	-44.85	16.32407G	-40.53	1
2412MHz	Pass	2.43641G	16.45	-13.55	2.19224G	-47.40	2.39984G	-38.27	2.4G	-40.42	2.5027G	-46.35	16.72865G	-40.64	2
2437MHz	Pass	2.43641G	16.45	-13.55	2.30059G	-47.73	2.39552G	-40.85	2.4G	-43.95	2.51118G	-45.26	6.7547G	-40.28	1
2437MHz	Pass	2.43641G	16.45	-13.55	744.15M	-47.05	2.39736G	-42.84	2.4G	-45.84	2.50046G	-43.82	16.82698G	-40.58	2
2462MHz	Pass	2.43641G	16.45	-13.55	2.15962G	-47.58	2.4G	-46.06	2.4G	-47.04	2.50014G	-44.19	6.98789G	-40.81	1
2462MHz	Pass	2.43641G	16.45	-13.55	372.51M	-47.21	2.3908G	-46.07	2.4G	-47.78	2.50902G	-44.50	16.29317G	-40.98	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	14.93	-15.07	2.08157G	-47.44	2.4G	-28.60	2.4G	-27.96	2.50718G	-46.39	16.42522G	-40.35	1
2412MHz	Pass	2.44192G	14.93	-15.07	501.83M	-46.56	2.39976G	-28.73	2.4G	-27.25	2.5103G	-45.86	6.85023G	-41.10	2
2437MHz	Pass	2.44192G	14.93	-15.07	956.18M	-47.62	2.39952G	-37.64	2.4G	-38.90	2.5007G	-45.96	6.7547G	-40.93	1
2437MHz	Pass	2.44192G	14.93	-15.07	2.13632G	-47.52	2.39792G	-39.37	2.4G	-39.26	2.50982G	-45.18	16.81574G	-41.23	2
2462MHz	Pass	2.44192G	14.93	-15.07	2.30292G	-46.87	2.39168G	-46.78	2.4G	-48.98	2.5051G	-45.75	6.57489G	-40.77	1
2462MHz	Pass	2.44192G	14.93	-15.07	950.35M	-46.95	2.39616G	-45.73	2.4G	-47.47	2.50822G	-45.77	16.4505G	-41.41	2









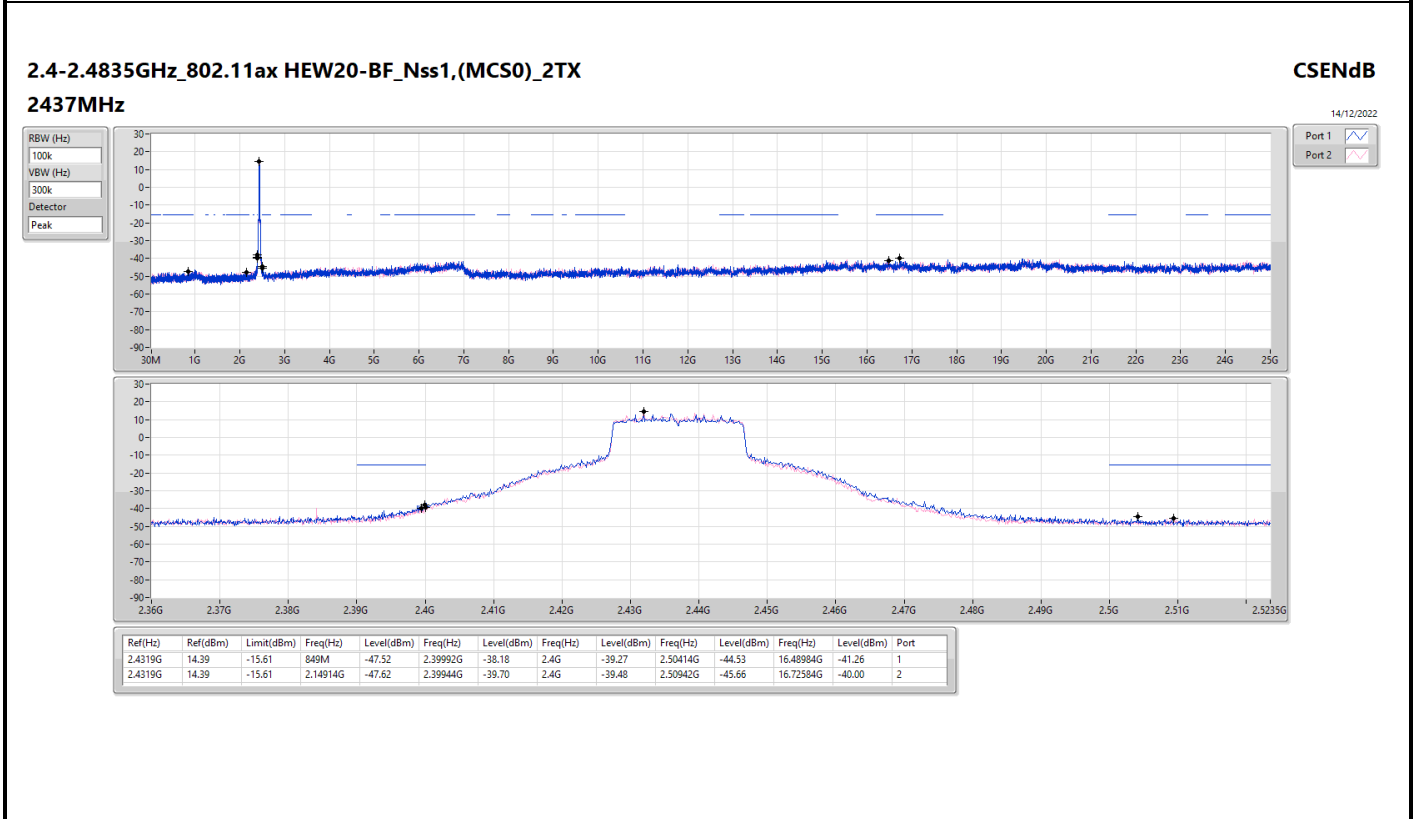
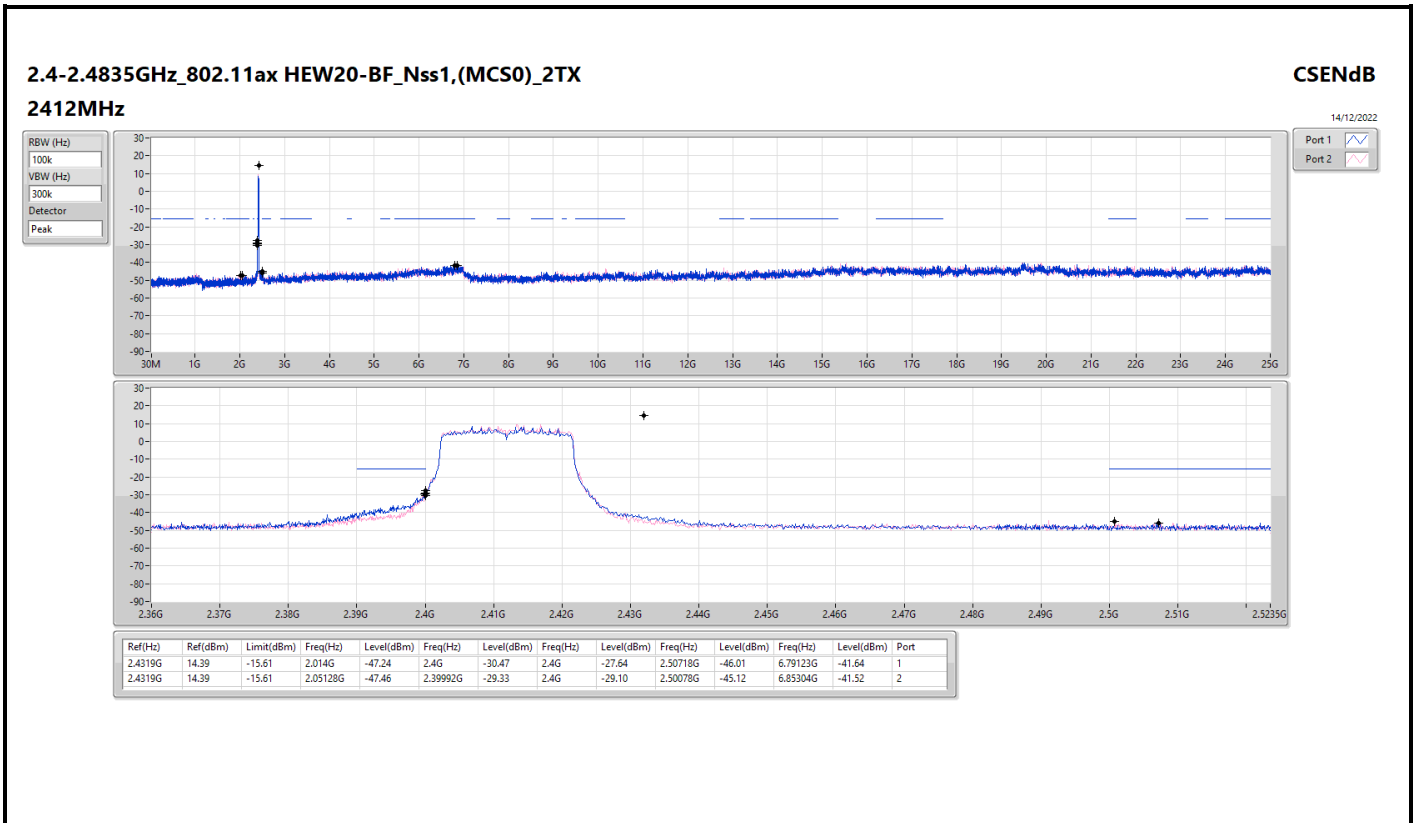
Summary

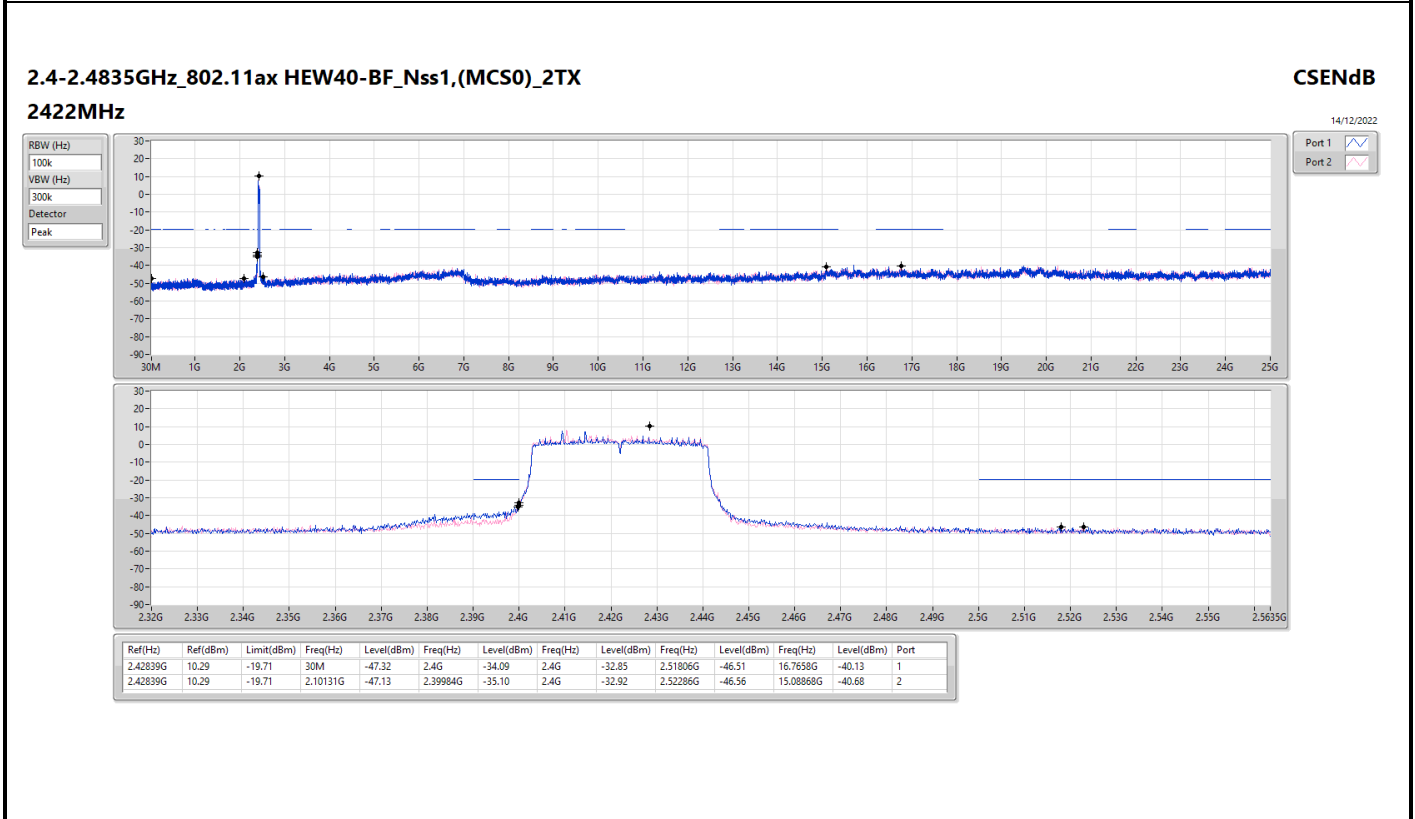
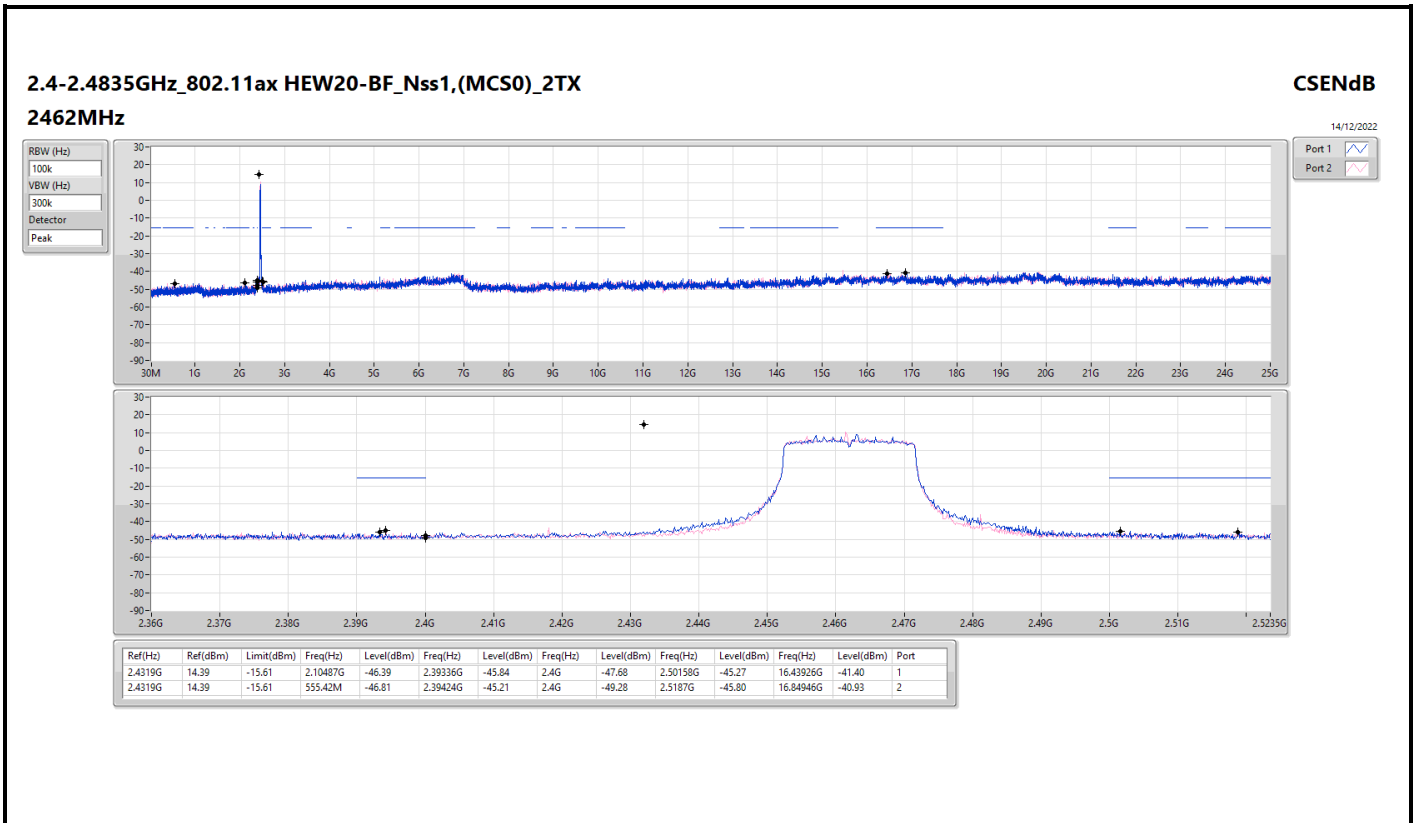
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.4319G	14.39	-15.61	2.014G	-47.24	2.4G	-30.47	2.4G	-27.64	2.50718G	-46.01	6.79123G	-41.64	1
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.42839G	10.29	-19.71	30M	-47.32	2.4G	-34.09	2.4G	-32.85	2.51806G	-46.51	16.7658G	-40.13	1



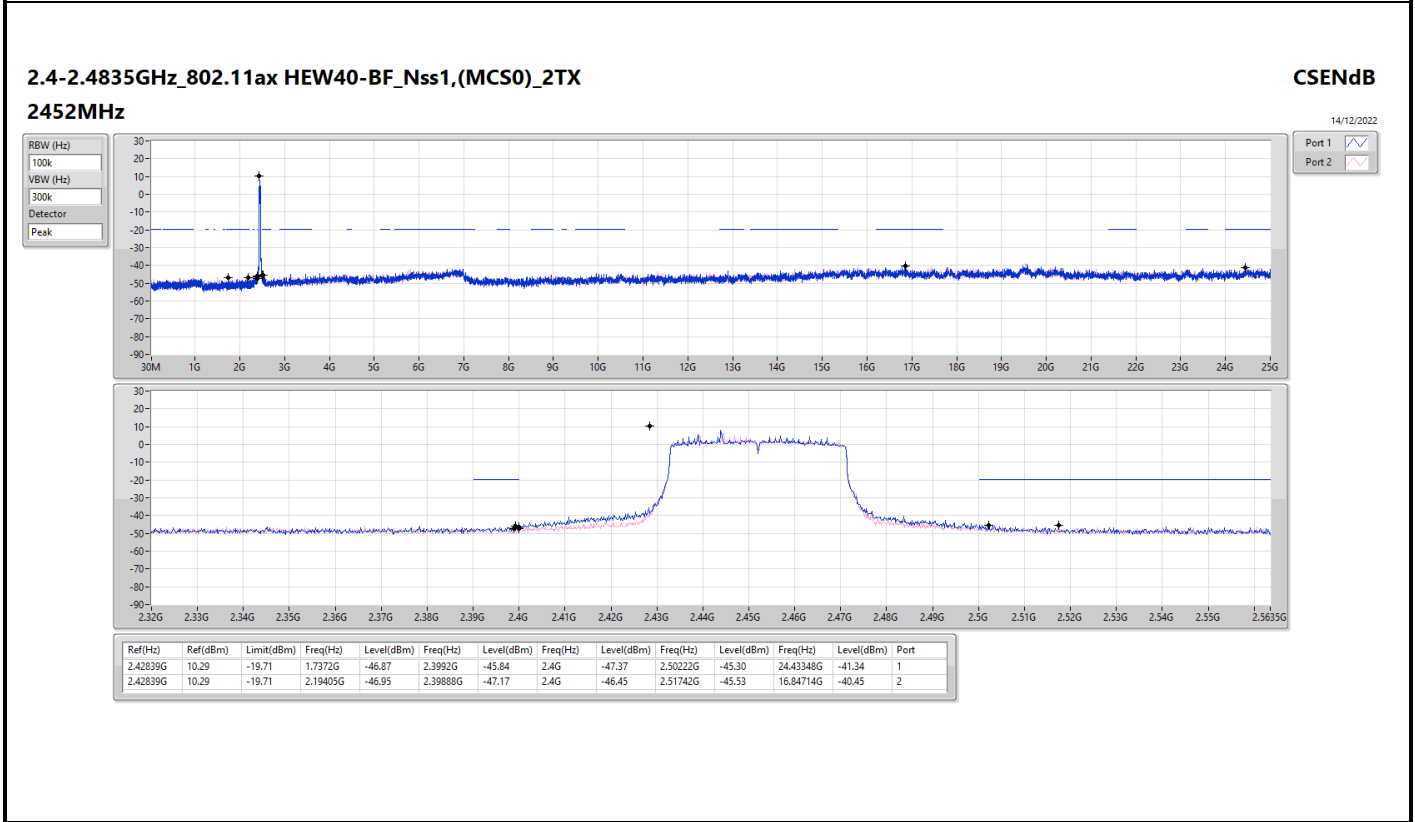
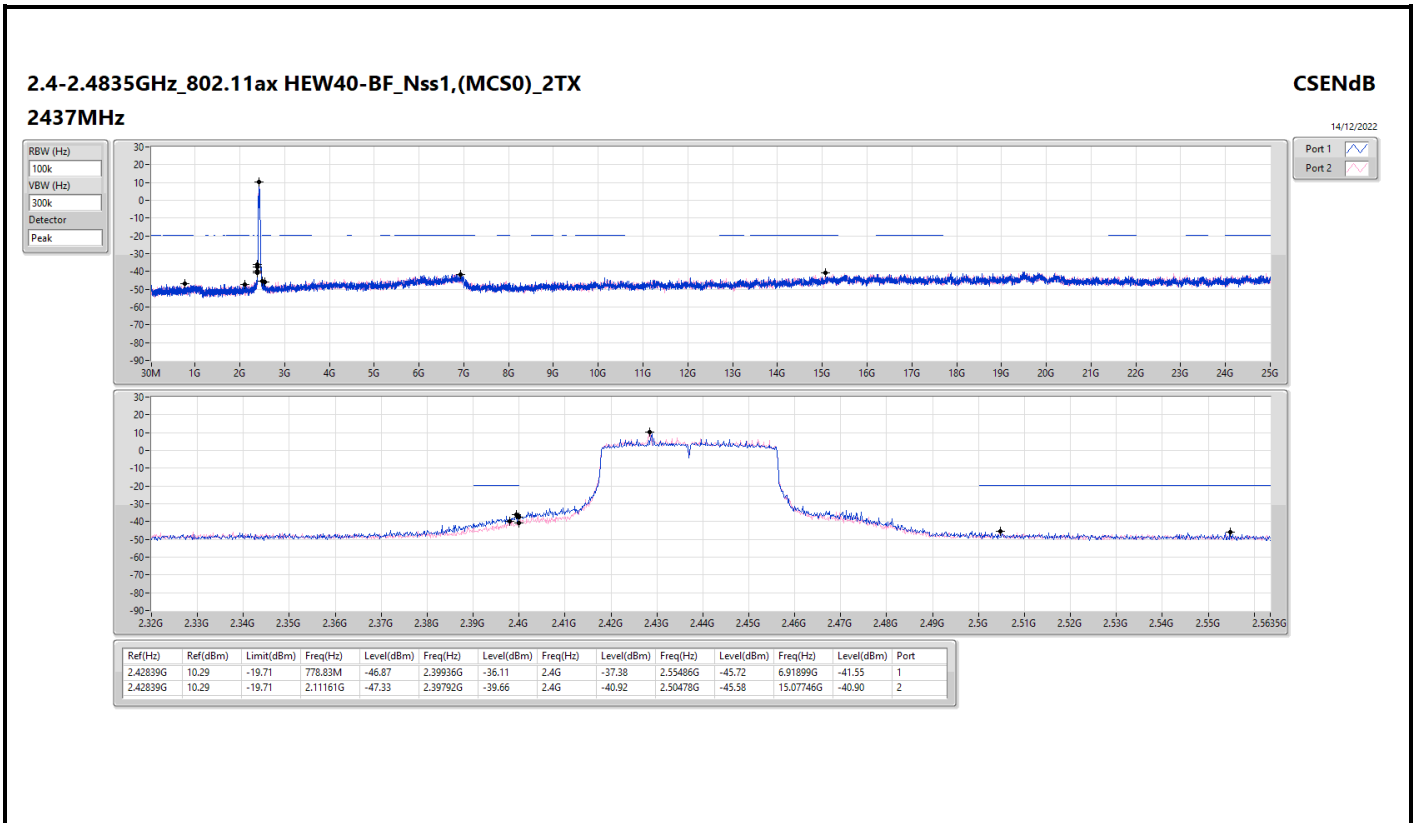
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4319G	14.39	-15.61	2.014G	-47.24	2.4G	-30.47	2.4G	-27.64	2.50718G	-46.01	6.79123G	-41.64	1
2412MHz	Pass	2.4319G	14.39	-15.61	2.05128G	-47.46	2.39992G	-29.33	2.4G	-29.10	2.50078G	-45.12	6.85304G	-41.52	2
2437MHz	Pass	2.4319G	14.39	-15.61	849M	-47.52	2.39992G	-38.18	2.4G	-39.27	2.50414G	-44.53	16.48984G	-41.26	1
2437MHz	Pass	2.4319G	14.39	-15.61	2.14914G	-47.62	2.39944G	-39.70	2.4G	-39.48	2.50942G	-45.66	16.72584G	-40.00	2
2462MHz	Pass	2.4319G	14.39	-15.61	2.10487G	-46.39	2.39336G	-45.84	2.4G	-47.68	2.50158G	-45.27	16.43926G	-41.40	1
2462MHz	Pass	2.4319G	14.39	-15.61	555.42M	-46.81	2.39424G	-45.21	2.4G	-49.28	2.5187G	-45.80	16.84946G	-40.93	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42839G	10.29	-19.71	30M	-47.32	2.4G	-34.09	2.4G	-32.85	2.51806G	-46.51	16.7658G	-40.13	1
2422MHz	Pass	2.42839G	10.29	-19.71	2.10131G	-47.13	2.39984G	-35.10	2.4G	-32.92	2.52286G	-46.56	15.08868G	-40.68	2
2437MHz	Pass	2.42839G	10.29	-19.71	778.83M	-46.87	2.39936G	-36.11	2.4G	-37.38	2.55486G	-45.72	6.91899G	-41.55	1
2437MHz	Pass	2.42839G	10.29	-19.71	2.11161G	-47.33	2.39792G	-39.66	2.4G	-40.92	2.50478G	-45.58	15.07746G	-40.90	2
2452MHz	Pass	2.42839G	10.29	-19.71	1.7372G	-46.87	2.3992G	-45.84	2.4G	-47.37	2.50222G	-45.30	24.43348G	-41.34	1
2452MHz	Pass	2.42839G	10.29	-19.71	2.19405G	-46.95	2.39888G	-47.17	2.4G	-46.45	2.51742G	-45.53	16.84714G	-40.45	2







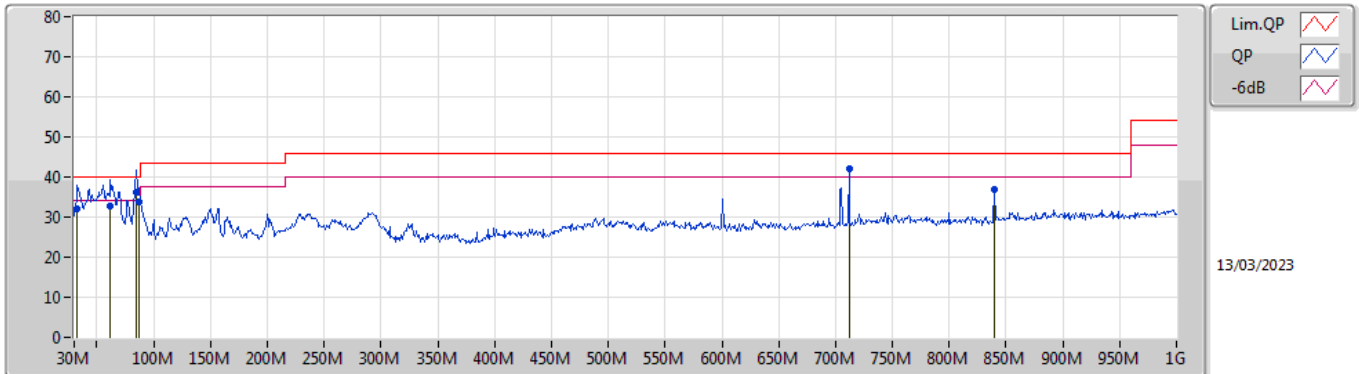




**Summary**

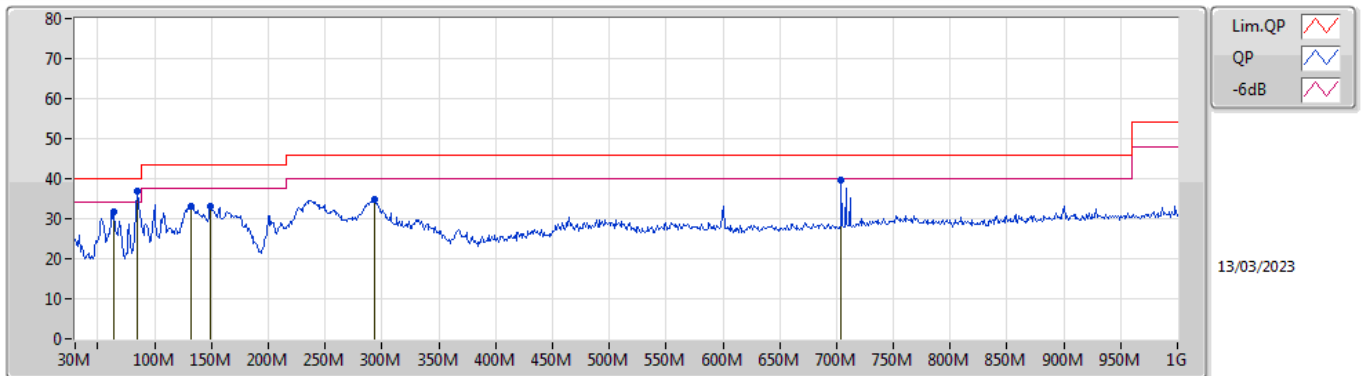
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	84.32M	36.75	40.00	-3.25	Horizontal

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	32.91M	32.07	40.00	-7.93	-8.33	3	Vertical	197	1.00	-	40.40	22.88	0.80	32.01
QP	62.01M	32.81	40.00	-7.19	-18.69	3	Vertical	309	1.25	-	51.50	12.40	1.08	32.17
QP	84.32M	36.18	40.00	-3.82	-17.12	3	Vertical	202	1.25	"Worst"	53.30	13.62	1.23	31.97
QP	87.23M	33.80	40.00	-6.20	-16.60	3	Vertical	215	1.00	-	50.40	14.16	1.25	32.01
PK	711.91M	41.92	46.00	-4.08	-3.12	3	Vertical	337	1.25	-	45.04	24.93	3.65	31.70
PK	839.95M	36.84	46.00	-9.16	-1.14	3	Vertical	264	1.25	-	37.98	26.08	3.98	31.20

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	63.95M	31.59	40.00	-8.41	-18.63	3	Horizontal	301	3.00	-	50.22	12.41	1.10	32.14
PK	84.32M	36.75	40.00	-3.25	-17.12	3	Horizontal	129	2.00	"Worst"	53.87	13.62	1.23	31.97
PK	131.85M	33.27	43.50	-10.23	-12.71	3	Horizontal	111	1.50	-	45.98	17.73	1.52	31.96
PK	149.31M	33.09	43.50	-10.41	-13.97	3	Horizontal	143	2.00	-	47.06	16.48	1.59	32.04
PK	292.87M	34.68	46.00	-11.32	-10.56	3	Horizontal	310	1.25	-	45.24	18.94	2.26	31.76
PK	704.15M	39.64	46.00	-6.36	-3.22	3	Horizontal	211	1.50	-	42.86	24.88	3.63	31.73

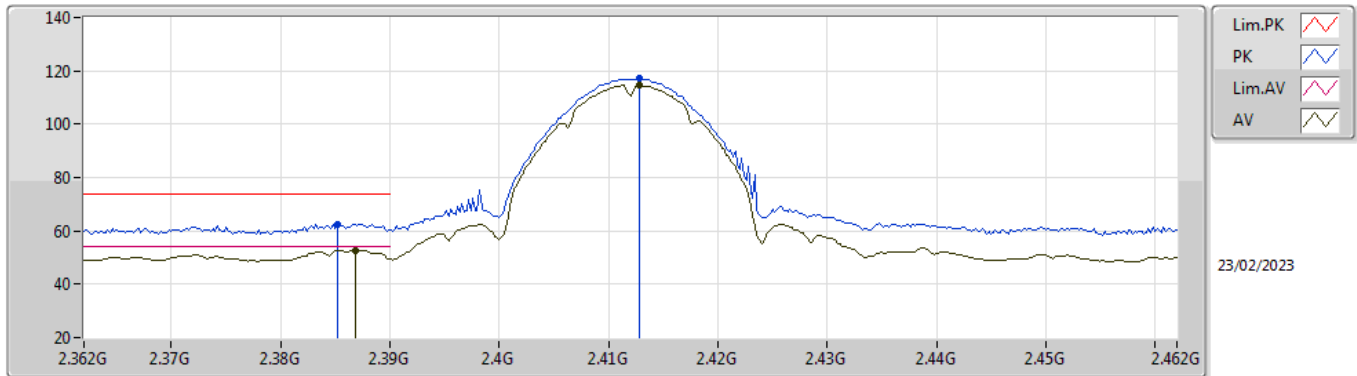


Summary

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	2.3892G	52.98	54.00	-1.02	3	Vertical	317	1.81	-

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX

2412MHz\_TX

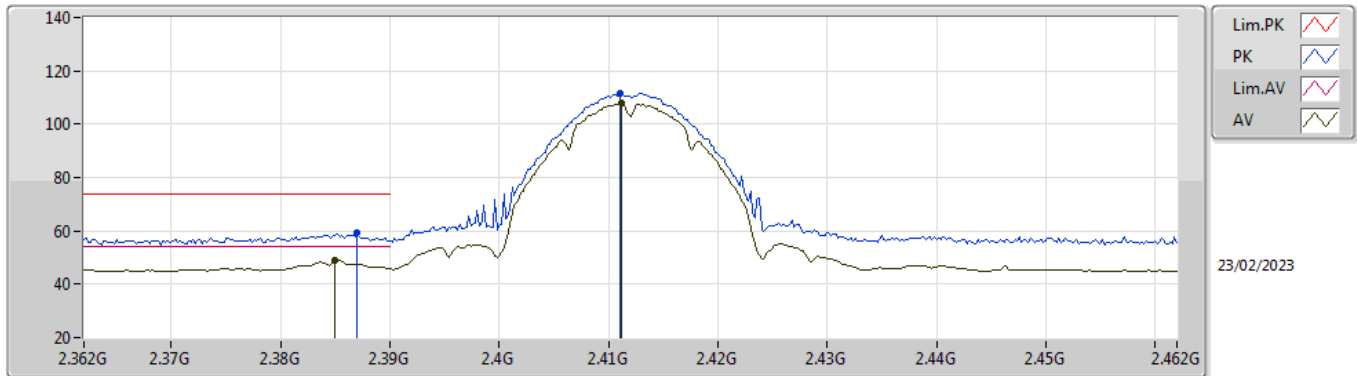


EUT\_Z\_2TX  
Setting 19.5  
06-H-G-4

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	2.3852G	62.64	74.00	-11.36	31.10	3	Vertical	308	1.80	-	27.66	3.88	-
AV	2.3868G	52.77	54.00	-1.23	21.24	3	Vertical	308	1.80	-	27.65	3.88	-
PK	2.4128G	117.11	Inf	-Inf	85.60	3	Vertical	308	1.80	-	27.60	3.91	-
AV	2.4128G	114.70	Inf	-Inf	83.19	3	Vertical	308	1.80	-	27.60	3.91	-

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX

2412MHz\_TX

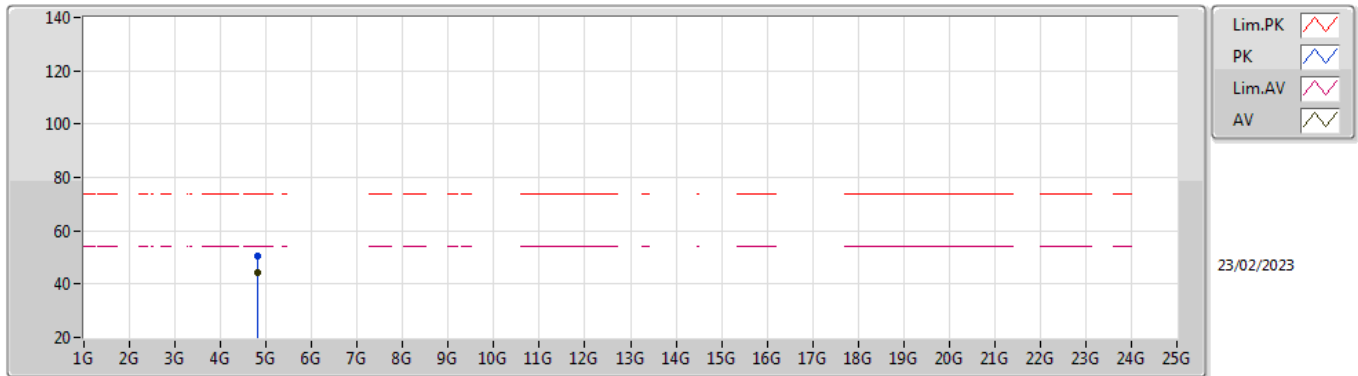


EUT\_Z\_2TX  
 Setting 19.5  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	59.11	74.00	-14.89	26.92	3	Horizontal	91	1.94	-	28.20	3.99	-
AV	2.385G	48.78	54.00	-5.22	16.59	3	Horizontal	91	1.94	-	28.20	3.99	-
PK	2.411G	111.59	Inf	-Inf	79.38	3	Horizontal	91	1.94	-	28.20	4.01	-
AV	2.4112G	107.81	Inf	-Inf	75.60	3	Horizontal	91	1.94	-	28.20	4.01	-

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX

2412MHz\_TX



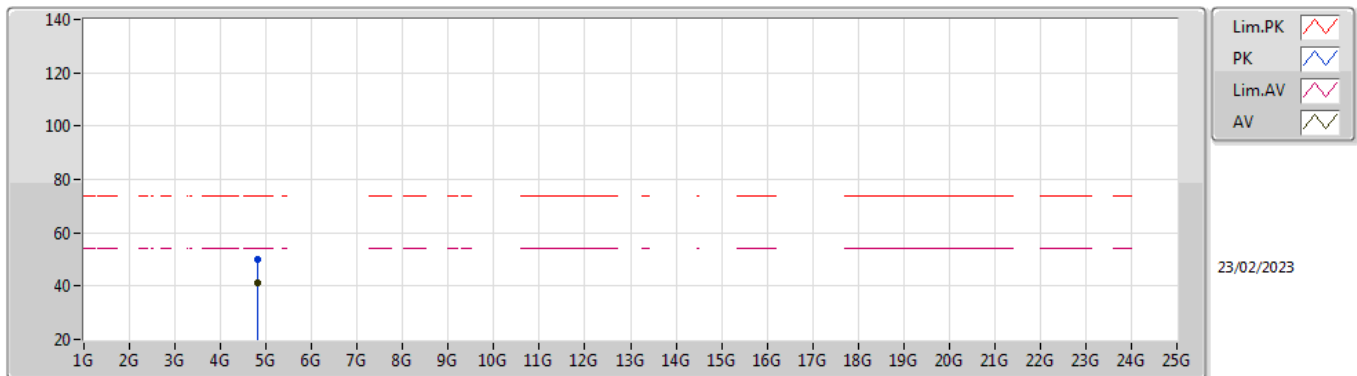
EUT\_Z\_2TX  
 Setting 19.5  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82406G	50.67	74.00	-23.33	45.66	3	Vertical	197	1.63	-	33.40	6.51	34.90
AV	4.82396G	44.37	54.00	-9.63	39.36	3	Vertical	197	1.63	-	33.40	6.51	34.90



2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX

2412MHz\_TX

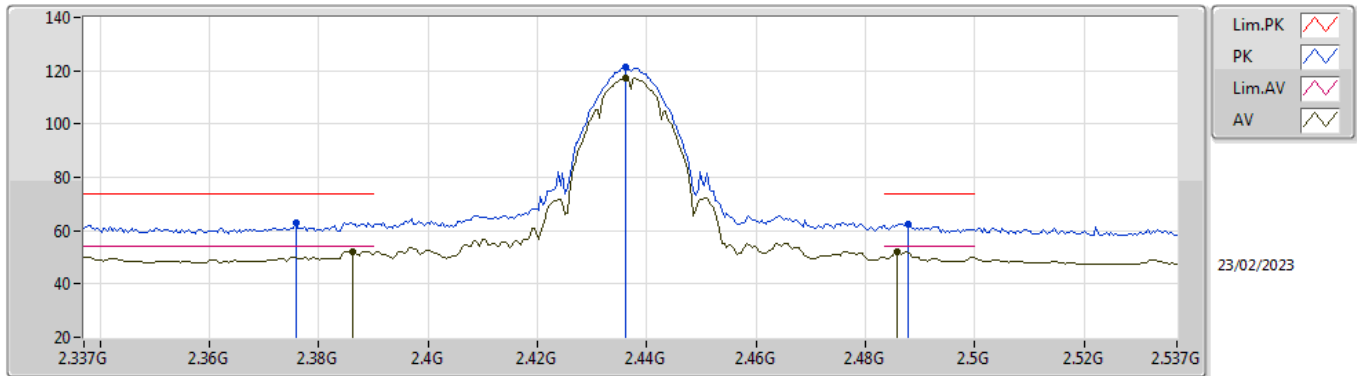


EUT\_Z\_2TX  
Setting 19.5  
03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.824G	49.79	74.00	-24.21	44.78	3	Horizontal	114	1.02	-	33.40	6.51	34.90
AV	4.82394G	41.44	54.00	-12.56	36.43	3	Horizontal	114	1.02	-	33.40	6.51	34.90

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX

2437MHz\_TX

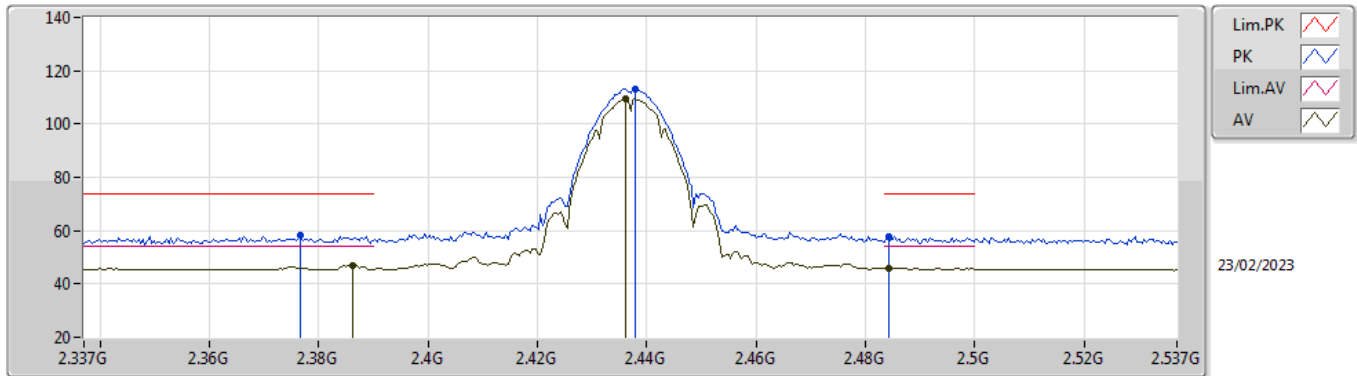


EUT\_Z\_2TX  
 Setting 22  
 03-C-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3758G	63.17	74.00	-10.83	30.99	3	Vertical	300	1.80	-	28.20	3.98	-
AV	2.3862G	52.28	54.00	-1.72	20.05	3	Vertical	300	1.80	-	28.24	3.99	-
PK	2.4362G	121.24	Inf	-Inf	88.90	3	Vertical	300	1.80	-	28.30	4.04	-
AV	2.4362G	117.50	Inf	-Inf	85.16	3	Vertical	300	1.80	-	28.30	4.04	-
PK	2.4878G	62.30	74.00	-11.70	29.76	3	Vertical	300	1.80	-	28.45	4.09	-
AV	2.4858G	52.16	54.00	-1.84	19.63	3	Vertical	300	1.80	-	28.44	4.09	-

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX

2437MHz\_TX

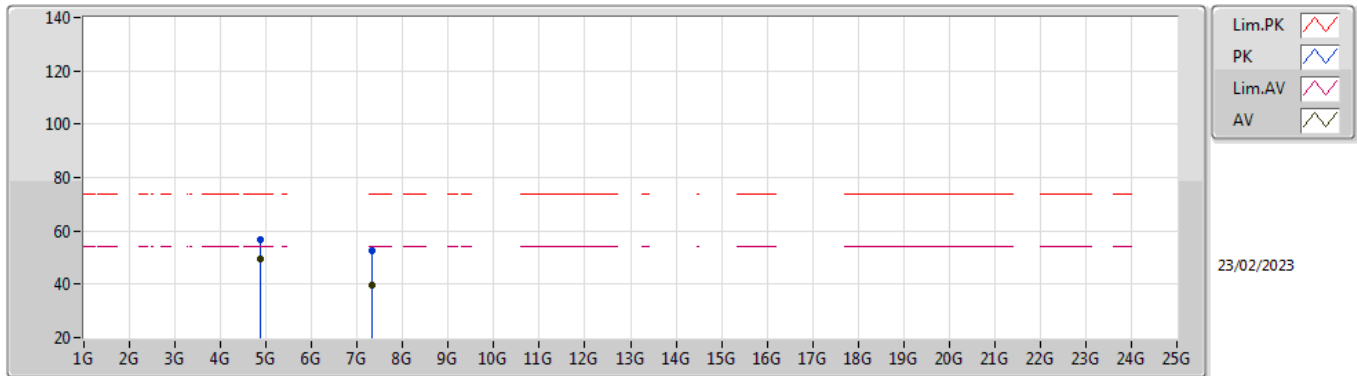


EUT Z\_2TX  
 Setting 22  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3766G	58.23	74.00	-15.77	26.05	3	Horizontal	91	1.88	-	28.20	3.98	-
AV	2.3862G	47.07	54.00	-6.93	14.88	3	Horizontal	91	1.88	-	28.20	3.99	-
PK	2.4378G	113.31	Inf	-Inf	81.07	3	Horizontal	91	1.88	-	28.20	4.04	-
AV	2.4362G	109.49	Inf	-Inf	77.25	3	Horizontal	91	1.88	-	28.20	4.04	-
PK	2.4842G	57.84	74.00	-16.16	25.35	3	Horizontal	91	1.88	-	28.41	4.08	-
AV	2.4842G	46.08	54.00	-7.92	13.59	3	Horizontal	91	1.88	-	28.41	4.08	-

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX

2437MHz\_TX

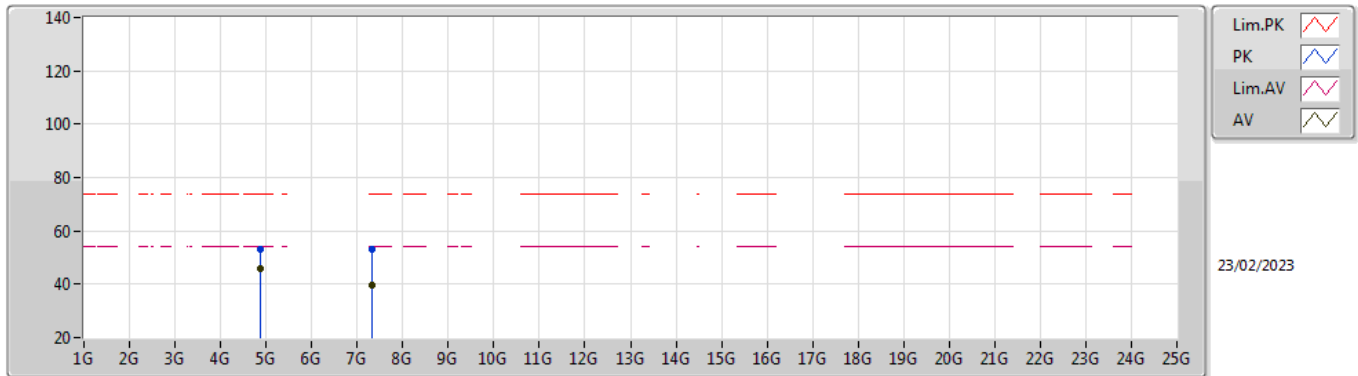


EUT\_Z\_2TX  
Setting 22  
03-E-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87382G	56.54	74.00	-17.46	51.30	3	Vertical	272	2.17	-	33.60	6.54	34.90
AV	4.874G	49.23	54.00	-4.77	43.99	3	Vertical	272	2.17	-	33.60	6.54	34.90
PK	7.323G	52.65	74.00	-21.35	42.15	3	Vertical	189	1.80	-	36.95	8.70	35.15
AV	7.32558G	39.47	54.00	-14.53	28.97	3	Vertical	189	1.80	-	36.95	8.70	35.15

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX

2437MHz\_TX

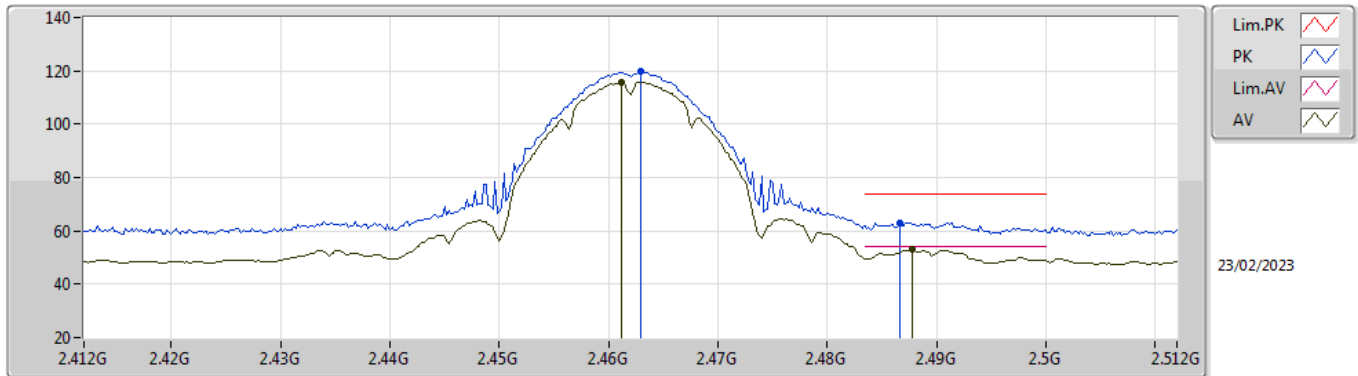


EUT\_Z\_2TX  
Setting 22  
03-E-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.874G	53.29	74.00	-20.71	48.05	3	Horizontal	6	1.15	-	33.60	6.54	34.90
AV	4.87394G	45.98	54.00	-8.02	40.74	3	Horizontal	6	1.15	-	33.60	6.54	34.90
PK	7.32384G	53.35	74.00	-20.65	42.85	3	Horizontal	278	1.80	-	36.95	8.70	35.15
AV	7.31892G	39.46	54.00	-14.54	28.97	3	Horizontal	278	1.80	-	36.94	8.70	35.15

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX

2462MHz\_TX

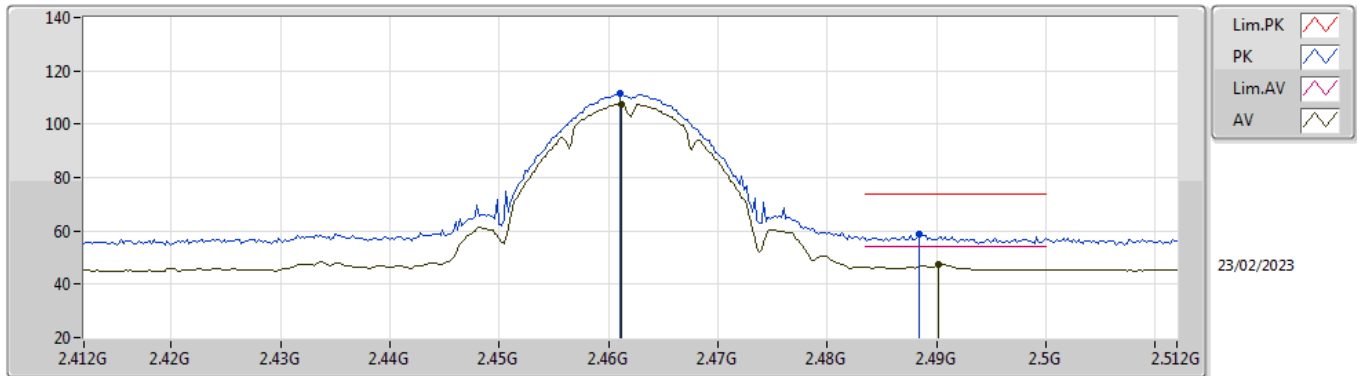


EUT\_Z\_2TX  
 Setting 20  
 03-C-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	119.76	Inf	-Inf	87.35	3	Vertical	300	1.83	-	28.35	4.06	-
AV	2.4612G	115.82	Inf	-Inf	83.42	3	Vertical	300	1.83	-	28.34	4.06	-
PK	2.4866G	63.06	74.00	-10.94	30.52	3	Vertical	300	1.83	-	28.45	4.09	-
AV	2.4878G	52.91	54.00	-1.09	20.37	3	Vertical	300	1.83	-	28.45	4.09	-

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX

2462MHz\_TX

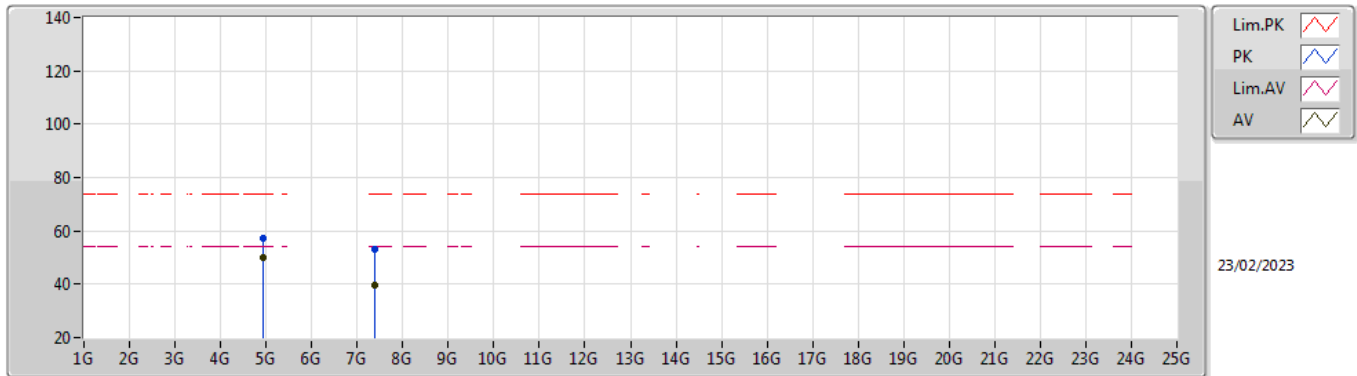


EUT\_Z\_2TX  
Setting 20  
03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	111.47	Inf	-Inf	79.14	3	Horizontal	89	1.88	-	28.27	4.06	-
AV	2.4612G	107.66	Inf	-Inf	75.33	3	Horizontal	89	1.88	-	28.27	4.06	-
PK	2.4884G	58.95	74.00	-15.05	26.43	3	Horizontal	89	1.88	-	28.43	4.09	-
AV	2.4902G	47.29	54.00	-6.71	14.76	3	Horizontal	89	1.88	-	28.44	4.09	-

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX

2462MHz\_TX



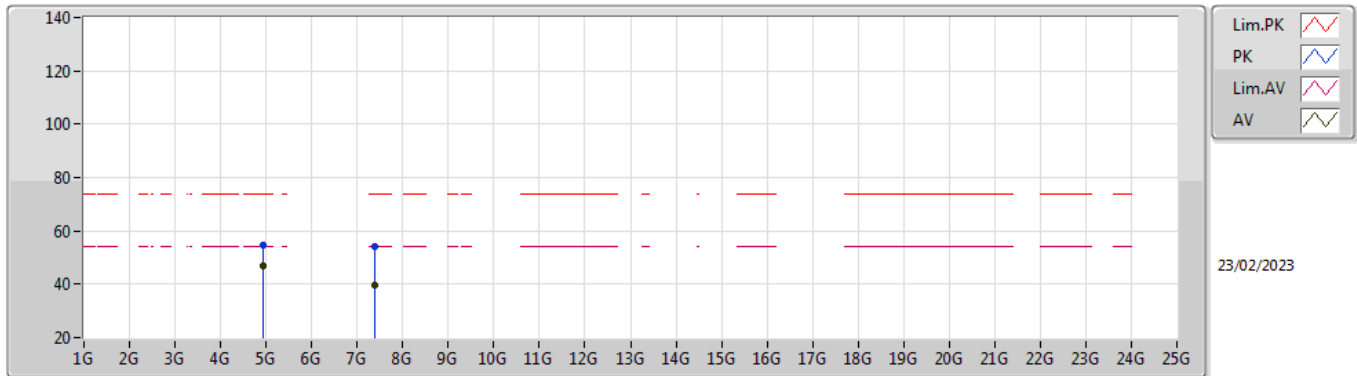
EUT\_Z\_2TX  
Setting 20  
03-C-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92406G	57.50	74.00	-16.50	52.08	3	Vertical	281	2.61	-	33.75	6.56	34.89
AV	4.924G	50.00	54.00	-4.00	44.58	3	Vertical	281	2.61	-	33.75	6.56	34.89
PK	7.37934G	53.20	74.00	-20.80	42.67	3	Vertical	197	2.12	-	37.00	8.70	35.17
AV	7.39392G	39.85	54.00	-14.15	29.33	3	Vertical	197	2.12	-	37.00	8.70	35.18



2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_2TX

2462MHz\_TX

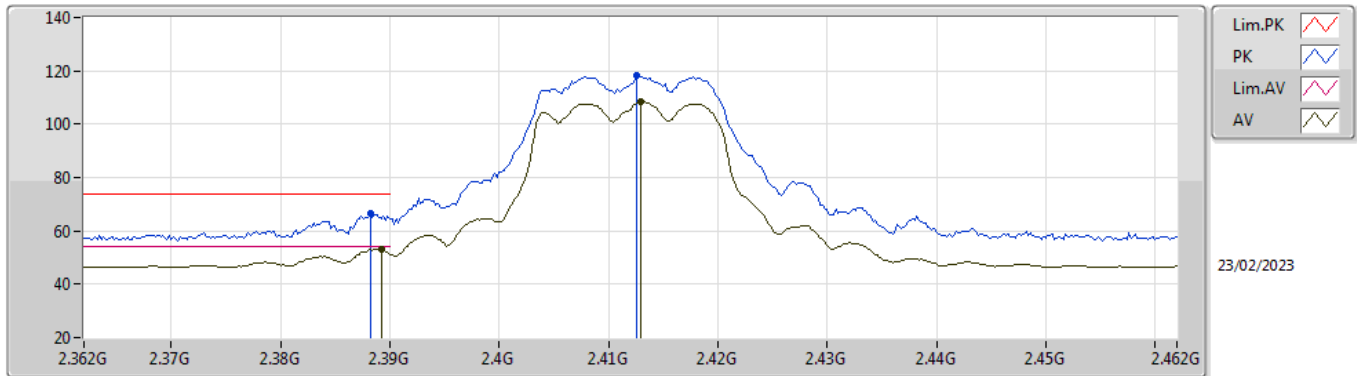


EUT\_Z\_2TX  
 Setting 20  
 03-C-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.924G	54.66	74.00	-19.34	49.24	3	Horizontal	12	1.02	-	33.75	6.56	34.89
AV	4.92394G	47.08	54.00	-6.92	41.66	3	Horizontal	12	1.02	-	33.75	6.56	34.89
PK	7.38852G	53.94	74.00	-20.06	43.42	3	Horizontal	177	1.80	-	37.00	8.70	35.18
AV	7.39584G	39.87	54.00	-14.13	29.35	3	Horizontal	177	1.80	-	37.00	8.70	35.18

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2412MHz\_TX

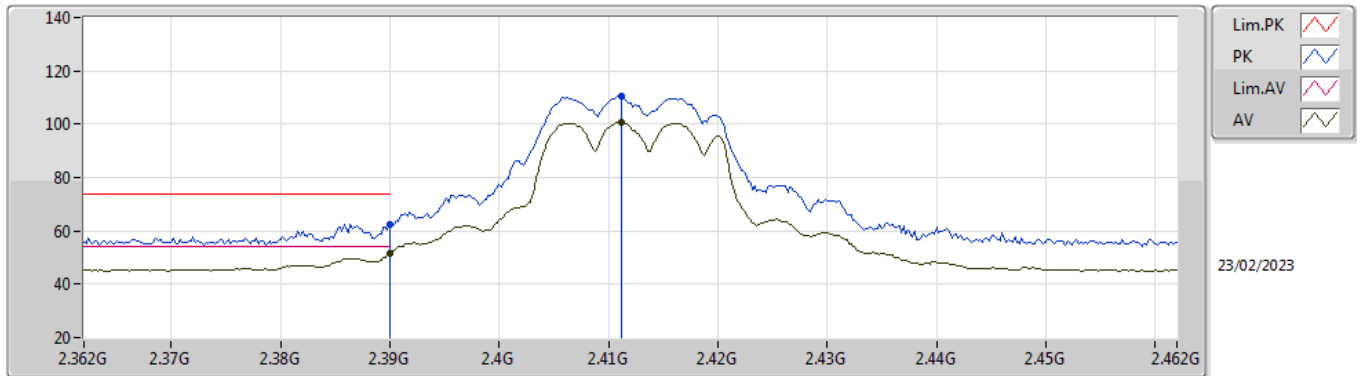


EUT\_Z\_2TX  
Setting 17.5  
03-C-J-8

Type	Freq (Hz)	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	66.37	74.00	-7.63	34.13	3	Vertical	317	1.81	-	28.25	3.99	-
AV	2.3892G	52.98	54.00	-1.02	20.73	3	Vertical	317	1.81	-	28.26	3.99	-
PK	2.4126G	118.18	Inf	-Inf	85.87	3	Vertical	317	1.81	-	28.30	4.01	-
AV	2.413G	108.40	Inf	-Inf	76.09	3	Vertical	317	1.81	-	28.30	4.01	-

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2412MHz\_TX

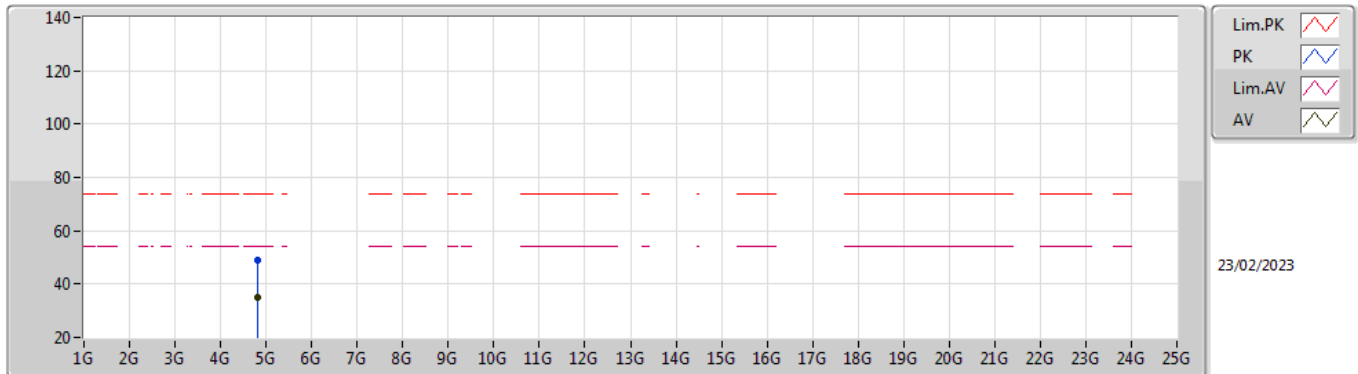


EUT\_Z\_2TX  
 Setting 17.5  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	62.61	74.00	-11.39	30.42	3	Horizontal	103	1.92	-	28.20	3.99	-
AV	2.39G	51.57	54.00	-2.43	19.38	3	Horizontal	103	1.92	-	28.20	3.99	-
PK	2.4112G	110.46	Inf	-Inf	78.25	3	Horizontal	103	1.92	-	28.20	4.01	-
AV	2.4112G	100.86	Inf	-Inf	68.65	3	Horizontal	103	1.92	-	28.20	4.01	-

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2412MHz\_TX

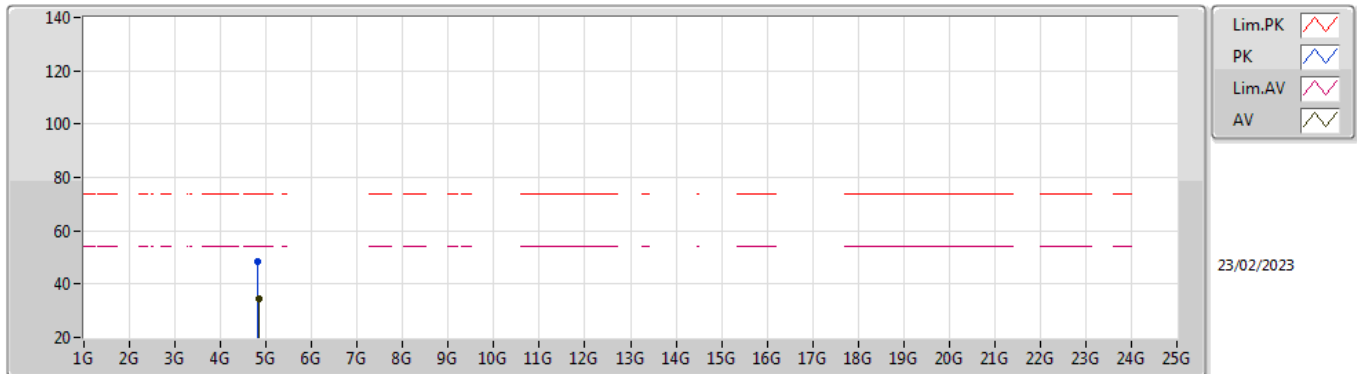


EUT\_Z\_2TX  
 Setting 17.5  
 03-C-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82562G	48.74	74.00	-25.26	43.78	3	Vertical	208	1.99	-	33.35	6.51	34.90
AV	4.82796G	35.04	54.00	-18.96	30.06	3	Vertical	208	1.99	-	33.37	6.51	34.90

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2412MHz\_TX

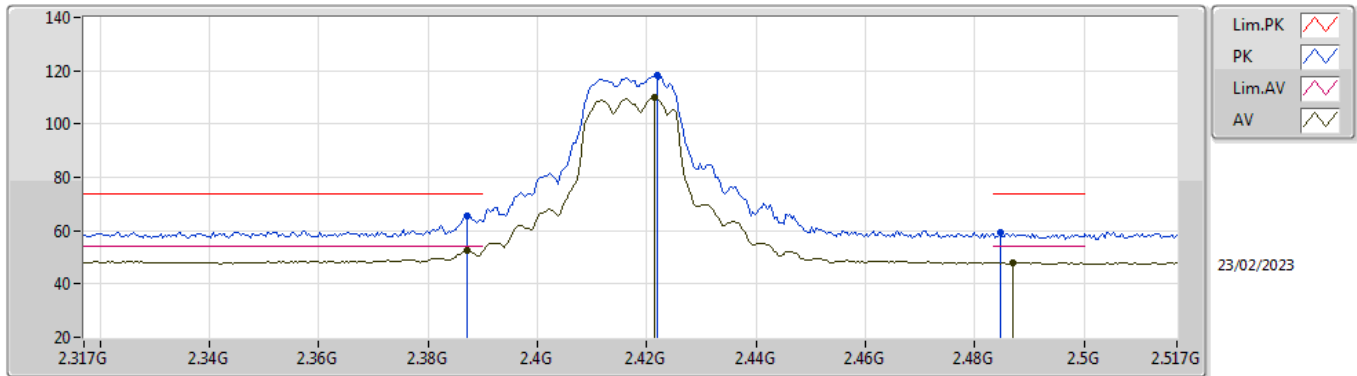


EUT\_Z\_2TX  
 Setting 17.5  
 03-C-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82754G	48.24	74.00	-25.76	43.26	3	Horizontal	360	1.10	-	33.37	6.51	34.90
AV	4.83306G	34.72	54.00	-19.28	29.70	3	Horizontal	360	1.10	-	33.40	6.52	34.90

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2417MHz\_TX

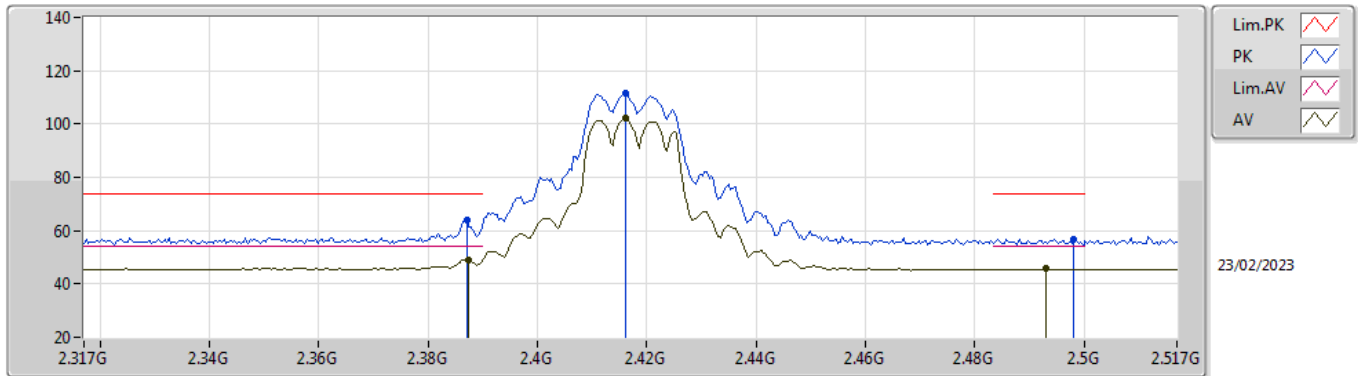


EUT\_Z\_2TX  
Setting 19  
06-H-G-4

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	2.387G	65.67	74.00	-8.33	34.14	3	Vertical	297	1.57	-	27.65	3.88	-
AV	2.387G	52.39	54.00	-1.61	20.86	3	Vertical	297	1.57	-	27.65	3.88	-
PK	2.4218G	118.20	Inf	-Inf	86.68	3	Vertical	297	1.57	-	27.60	3.92	-
AV	2.4214G	109.77	Inf	-Inf	78.25	3	Vertical	297	1.57	-	27.60	3.92	-
PK	2.4846G	59.50	74.00	-14.50	27.92	3	Vertical	297	1.57	-	27.60	3.98	-
AV	2.487G	48.07	54.00	-5.93	16.48	3	Vertical	297	1.57	-	27.60	3.99	-

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2417MHz\_TX

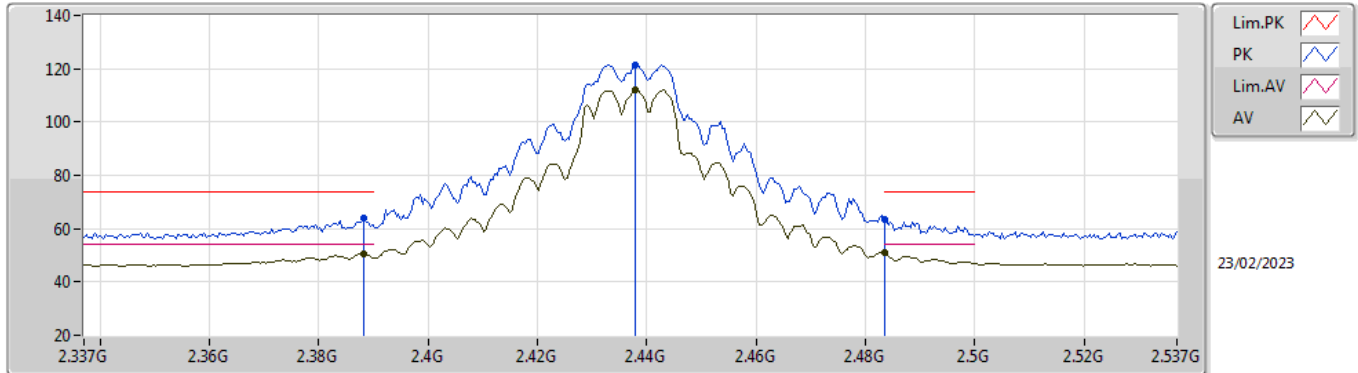


EUT\_Z\_2TX  
Setting 19  
03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	63.99	74.00	-10.01	31.80	3	Horizontal	101	1.79	-	28.20	3.99	-
AV	2.3874G	48.93	54.00	-5.07	16.74	3	Horizontal	101	1.79	-	28.20	3.99	-
PK	2.4162G	111.32	Inf	-Inf	79.10	3	Horizontal	101	1.79	-	28.20	4.02	-
AV	2.4162G	102.08	Inf	-Inf	69.86	3	Horizontal	101	1.79	-	28.20	4.02	-
PK	2.4982G	56.88	74.00	-17.12	24.29	3	Horizontal	101	1.79	-	28.49	4.10	-
AV	2.493G	45.62	54.00	-8.38	13.07	3	Horizontal	101	1.79	-	28.46	4.09	-

### 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

#### 2437MHz\_TX



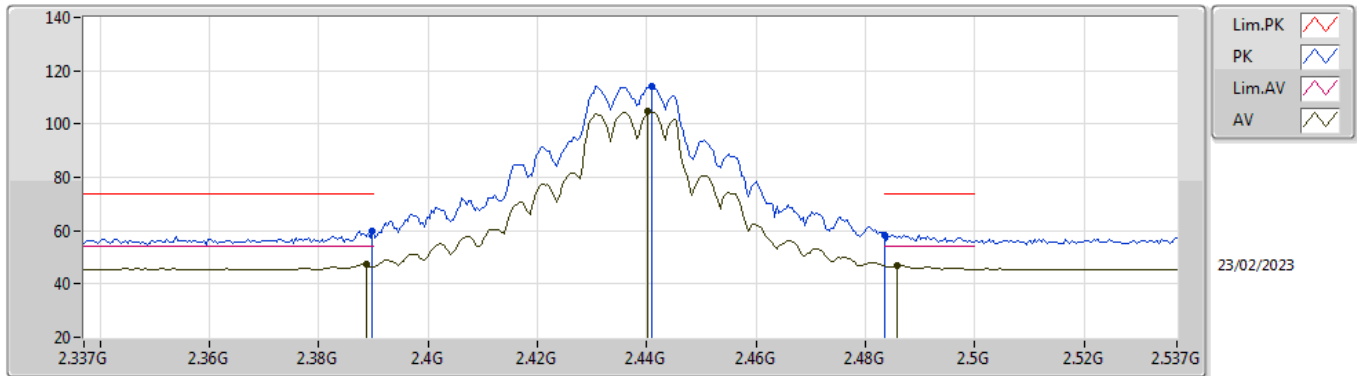
EUT\_Z\_2TX  
Setting 22  
03-C-J-8

Type	Freq (Hz)	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	64.10	74.00	-9.90	31.86	3	Vertical	47	1.86	-	28.25	3.99	-
AV	2.3882G	50.54	54.00	-3.46	18.30	3	Vertical	47	1.86	-	28.25	3.99	-
PK	2.4378G	121.34	Inf	-Inf	89.00	3	Vertical	47	1.86	-	28.30	4.04	-
AV	2.4378G	112.19	Inf	-Inf	79.85	3	Vertical	47	1.86	-	28.30	4.04	-
PK	2.4835G	63.63	74.00	-10.37	31.12	3	Vertical	47	1.86	-	28.43	4.08	-
AV	2.4835G	50.83	54.00	-3.17	18.32	3	Vertical	47	1.86	-	28.43	4.08	-



2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2437MHz\_TX

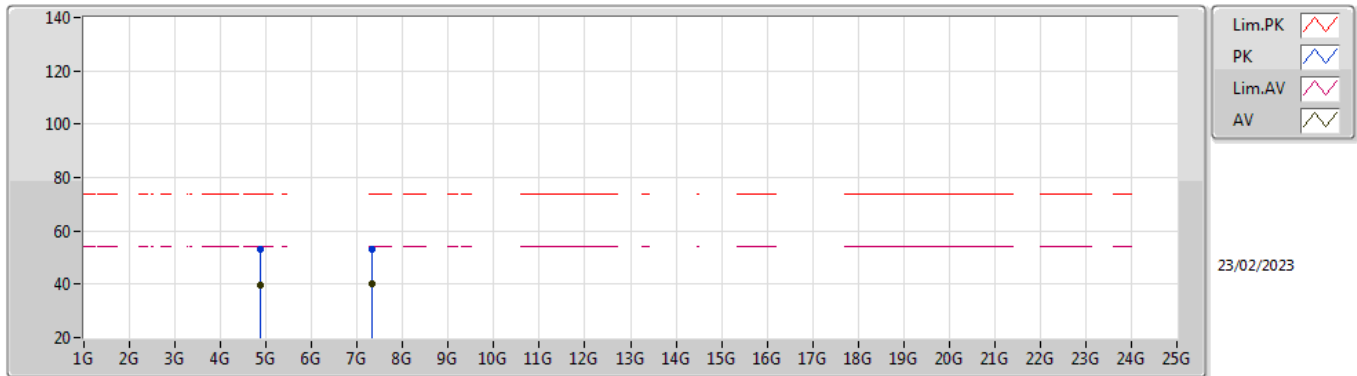


EUT\_Z\_2TX  
Setting 22  
03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	59.90	74.00	-14.10	27.71	3	Horizontal	103	1.75	-	28.20	3.99	-
AV	2.3886G	47.31	54.00	-6.69	15.12	3	Horizontal	103	1.75	-	28.20	3.99	-
PK	2.441G	114.34	Inf	-Inf	82.10	3	Horizontal	103	1.75	-	28.20	4.04	-
AV	2.4402G	104.62	Inf	-Inf	72.38	3	Horizontal	103	1.75	-	28.20	4.04	-
PK	2.4835G	58.31	74.00	-15.69	25.83	3	Horizontal	103	1.75	-	28.40	4.08	-
AV	2.4858G	47.05	54.00	-6.95	14.55	3	Horizontal	103	1.75	-	28.41	4.09	-

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2437MHz\_TX

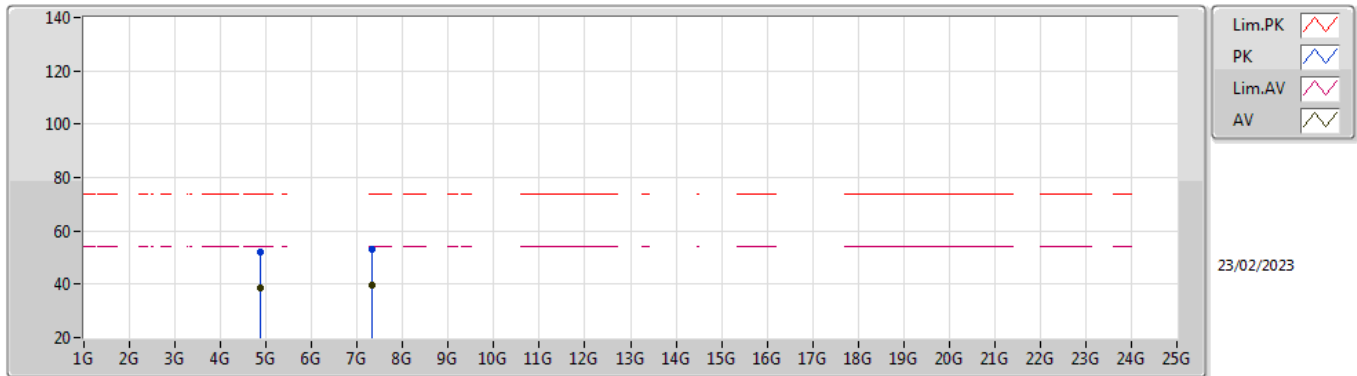


EUT\_Z\_2TX  
Setting 22  
03-E-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8761G	52.98	74.00	-21.02	47.73	3	Vertical	277	1.15	-	33.60	6.54	34.89
AV	4.87166G	39.81	54.00	-14.19	34.58	3	Vertical	277	1.15	-	33.59	6.54	34.90
PK	7.31682G	52.98	74.00	-21.02	42.50	3	Vertical	204	3.00	-	36.93	8.70	35.15
AV	7.3218G	39.93	54.00	-14.07	29.44	3	Vertical	204	3.00	-	36.94	8.70	35.15

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2437MHz\_TX

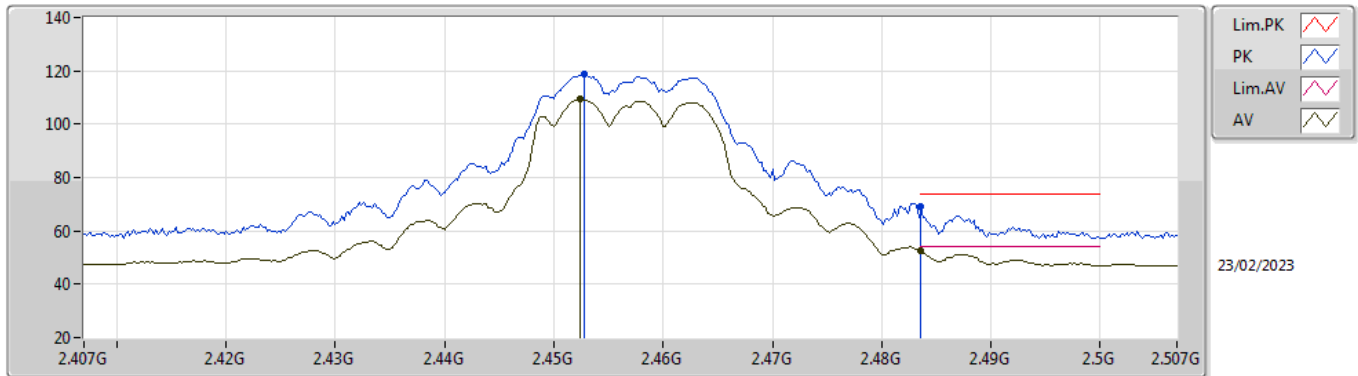


EUT\_Z\_2TX  
 Setting 22  
 03-E-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87142G	52.02	74.00	-21.98	46.79	3	Horizontal	-0	1.24	-	33.59	6.54	34.90
AV	4.87622G	38.56	54.00	-15.44	33.31	3	Horizontal	-0	1.24	-	33.60	6.54	34.89
PK	7.31826G	52.98	74.00	-21.02	42.49	3	Horizontal	24	1.80	-	36.94	8.70	35.15
AV	7.3113G	39.85	54.00	-14.15	29.37	3	Horizontal	24	1.80	-	36.92	8.70	35.14

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2457MHz\_TX

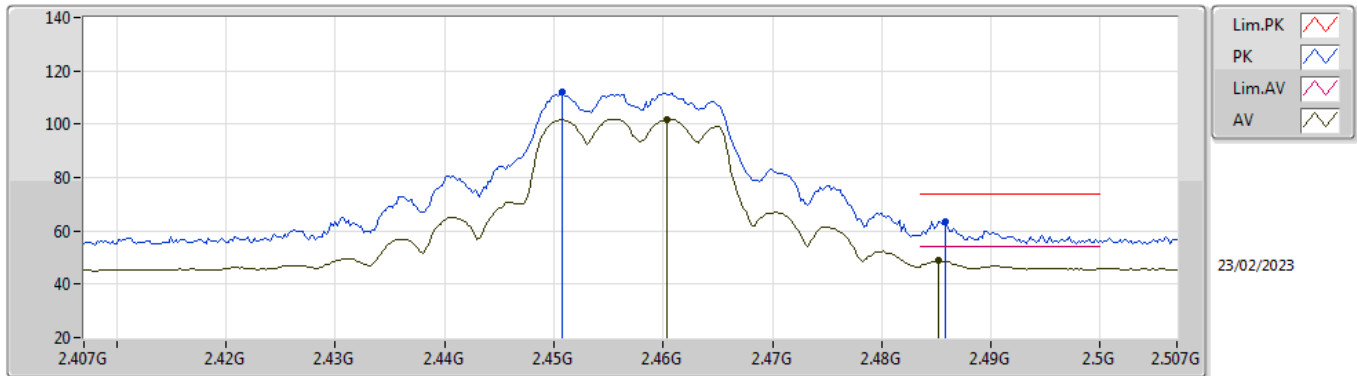


EUT\_Z\_2TX  
 Setting 19  
 03-C-J-8

Type	Freq (Hz)	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	118.89	Inf	-Inf	86.53	3	Vertical	66	1.74	-	28.31	4.05	-
AV	2.4524G	109.25	Inf	-Inf	76.89	3	Vertical	66	1.74	-	28.31	4.05	-
PK	2.4836G	69.08	74.00	-4.92	36.57	3	Vertical	66	1.74	-	28.43	4.08	-
AV	2.4835G	52.47	54.00	-1.53	19.96	3	Vertical	66	1.74	-	28.43	4.08	-

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2457MHz\_TX

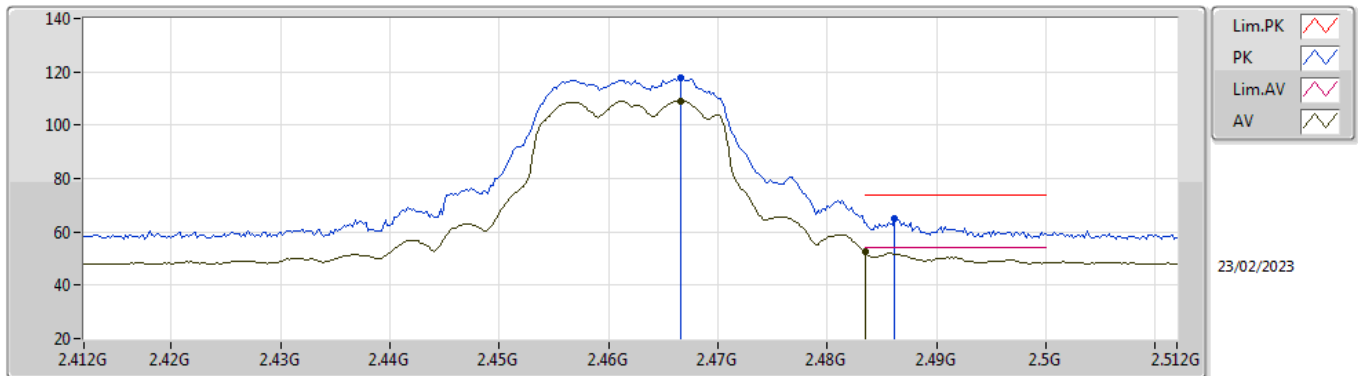


EUT\_Z\_2TX  
Setting 19  
03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4508G	111.84	Inf	-Inf	79.59	3	Horizontal	101	1.26	-	28.20	4.05	-
AV	2.4604G	101.93	Inf	-Inf	69.61	3	Horizontal	101	1.26	-	28.26	4.06	-
PK	2.4858G	63.42	74.00	-10.58	30.92	3	Horizontal	101	1.26	-	28.41	4.09	-
AV	2.4852G	48.83	54.00	-5.17	16.33	3	Horizontal	101	1.26	-	28.41	4.09	-

### 2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

#### 2462MHz\_TX

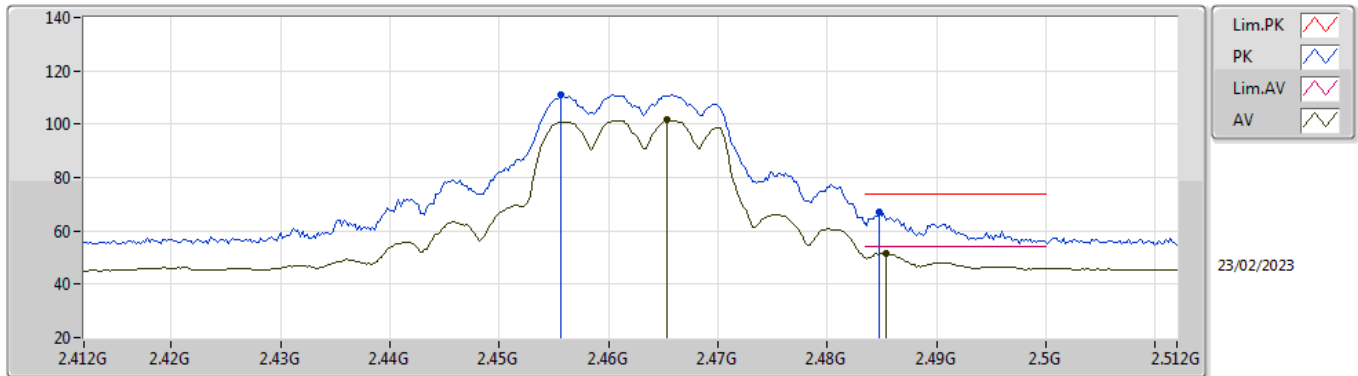


EUT\_Z\_2TX  
Setting 18.5  
06-H-G-4

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	2.4666G	117.56	Inf	-Inf	85.99	3	Vertical	298	1.71	-	27.60	3.97	-
AV	2.4666G	109.19	Inf	-Inf	77.62	3	Vertical	298	1.71	-	27.60	3.97	-
PK	2.4862G	65.00	74.00	-9.00	33.41	3	Vertical	298	1.71	-	27.60	3.99	-
AV	2.4835G	52.37	54.00	-1.63	20.79	3	Vertical	298	1.71	-	27.60	3.98	-

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2462MHz\_TX

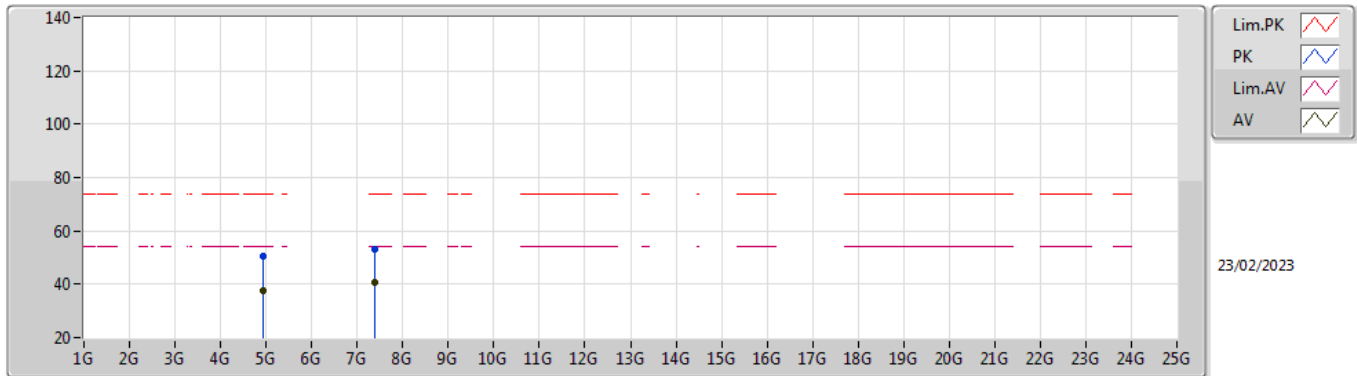


EUT\_Z\_2TX  
 Setting 18.5  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4556G	111.04	Inf	-Inf	78.75	3	Horizontal	102	1.67	-	28.23	4.06	-
AV	2.4654G	101.47	Inf	-Inf	69.11	3	Horizontal	102	1.67	-	28.29	4.07	-
PK	2.4848G	67.07	74.00	-6.93	34.58	3	Horizontal	102	1.67	-	28.41	4.08	-
AV	2.4854G	51.60	54.00	-2.40	19.10	3	Horizontal	102	1.67	-	28.41	4.09	-

2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2462MHz\_TX



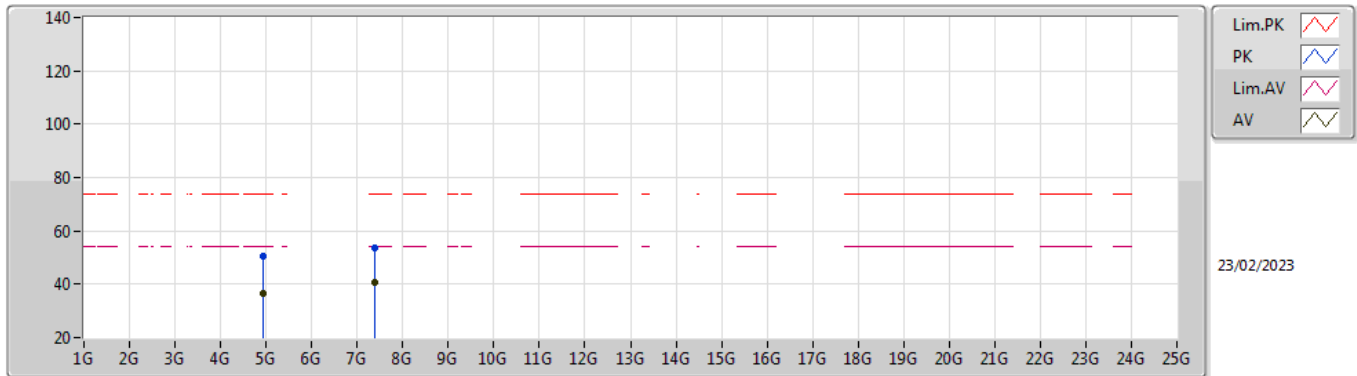
EUT\_Z\_2TX  
 Setting 18.5  
 06-E-P-5

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	4.92124G	50.30	74.00	-23.70	44.89	3	Vertical	211	1.80	-	33.74	6.56	34.89
AV	4.92616G	37.36	54.00	-16.64	31.94	3	Vertical	211	1.80	-	33.75	6.56	34.89
PK	7.38846G	53.28	74.00	-20.72	42.76	3	Vertical	298	1.80	-	37.00	8.70	35.18
AV	7.40052G	40.53	54.00	-13.47	30.01	3	Vertical	298	1.80	-	37.00	8.70	35.18



2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_2TX

2462MHz\_TX



EUT\_Z\_2TX  
Setting 18.5  
06-E-P-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	4.92724G	50.40	74.00	-23.60	44.98	3	Horizontal	0	1.25	-	33.75	6.56	34.89
AV	4.92124G	36.78	54.00	-17.22	31.37	3	Horizontal	0	1.25	-	33.74	6.56	34.89
PK	7.37844G	53.61	74.00	-20.39	43.08	3	Horizontal	164	1.80	-	37.00	8.70	35.17
AV	7.39878G	40.55	54.00	-13.45	30.03	3	Horizontal	164	1.80	-	37.00	8.70	35.18

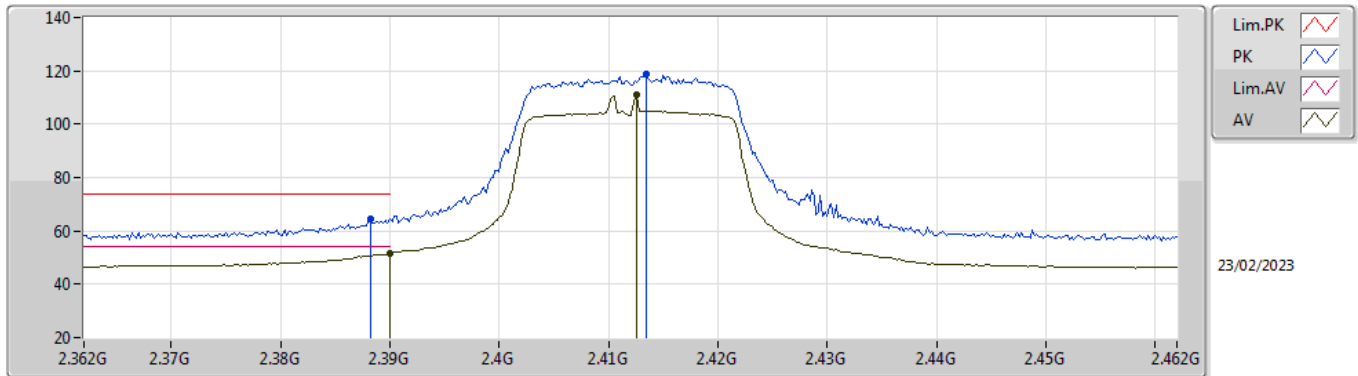


Summary

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	2.39G	52.96	54.00	-1.04	3	Vertical	300	1.96	-

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2412MHz\_TX

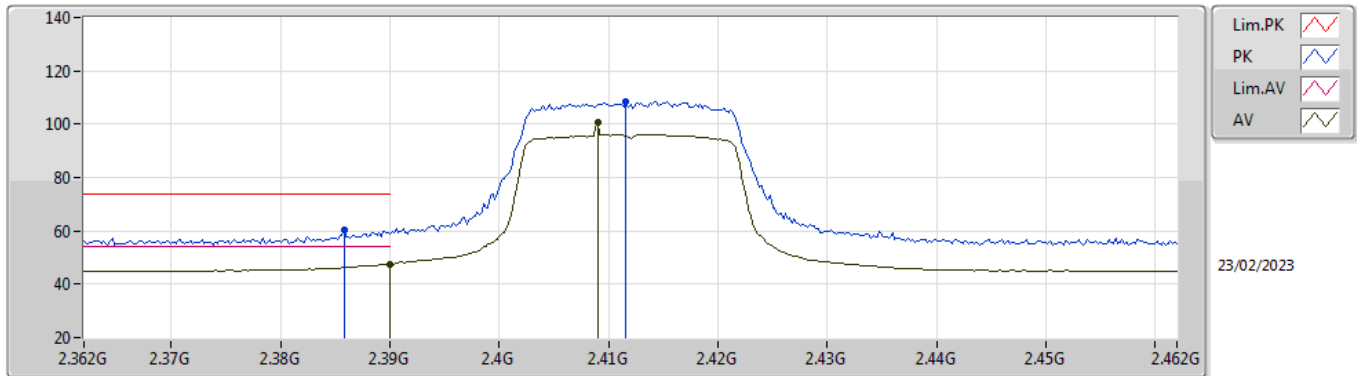


EUT\_Z\_2TX  
Setting 19  
03-C-J-8

Type	Freq (Hz)	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	64.39	74.00	-9.61	32.15	3	Vertical	295	1.72	-	28.25	3.99	-
AV	2.39G	51.67	54.00	-2.33	19.42	3	Vertical	295	1.72	-	28.26	3.99	-
PK	2.4134G	118.71	Inf	-Inf	86.40	3	Vertical	295	1.72	-	28.30	4.01	-
AV	2.4126G	110.87	Inf	-Inf	78.56	3	Vertical	295	1.72	-	28.30	4.01	-

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2412MHz\_TX

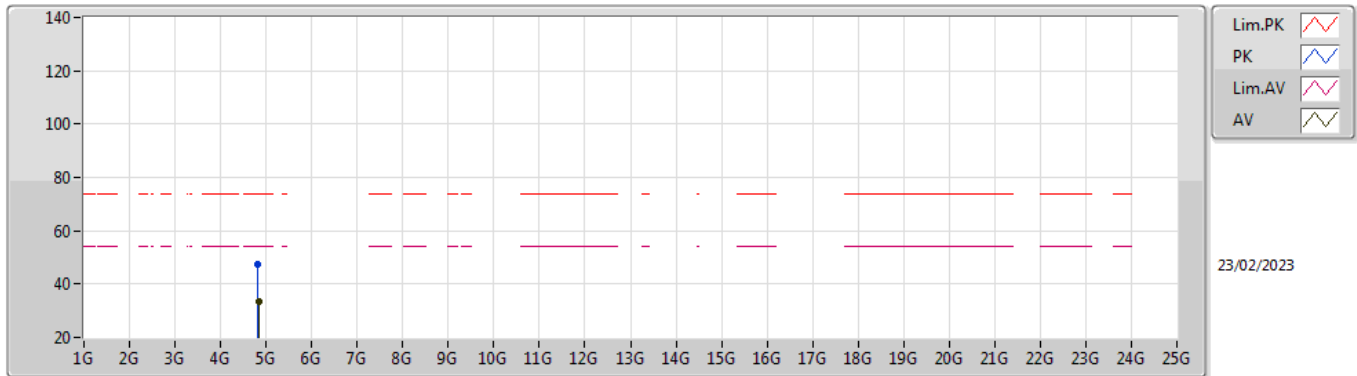


EUT\_Z\_2TX  
 Setting 19  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3858G	60.29	74.00	-13.71	28.10	3	Horizontal	90	1.96	-	28.20	3.99	-
AV	2.39G	47.67	54.00	-6.33	15.48	3	Horizontal	90	1.96	-	28.20	3.99	-
PK	2.4116G	108.64	Inf	-Inf	76.43	3	Horizontal	90	1.96	-	28.20	4.01	-
AV	2.409G	100.44	Inf	-Inf	68.23	3	Horizontal	90	1.96	-	28.20	4.01	-

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2412MHz\_TX

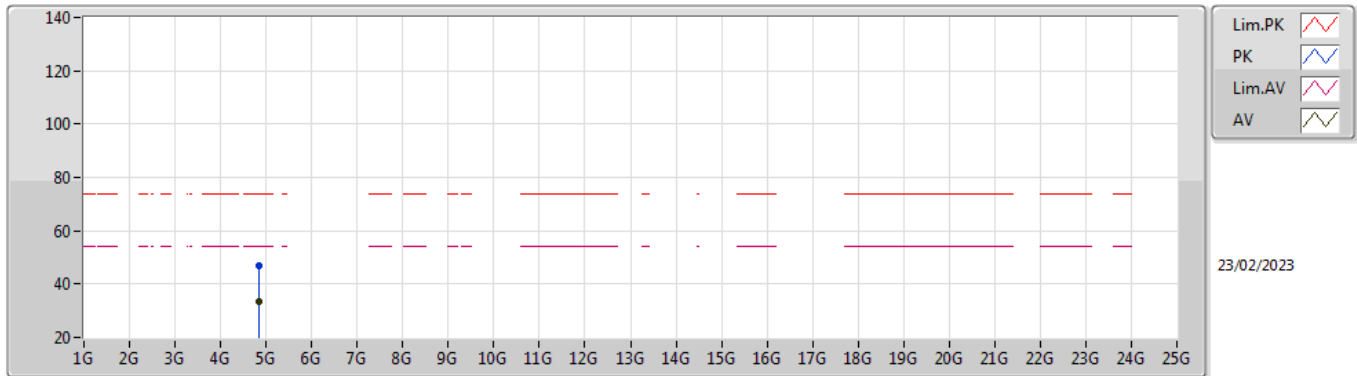


EUT\_Z\_2TX  
Setting 19  
03-C-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82484G	47.17	74.00	-26.83	42.21	3	Vertical	256	1.80	-	33.35	6.51	34.90
AV	4.8333G	33.66	54.00	-20.34	28.64	3	Vertical	256	1.80	-	33.40	6.52	34.90

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2412MHz\_TX

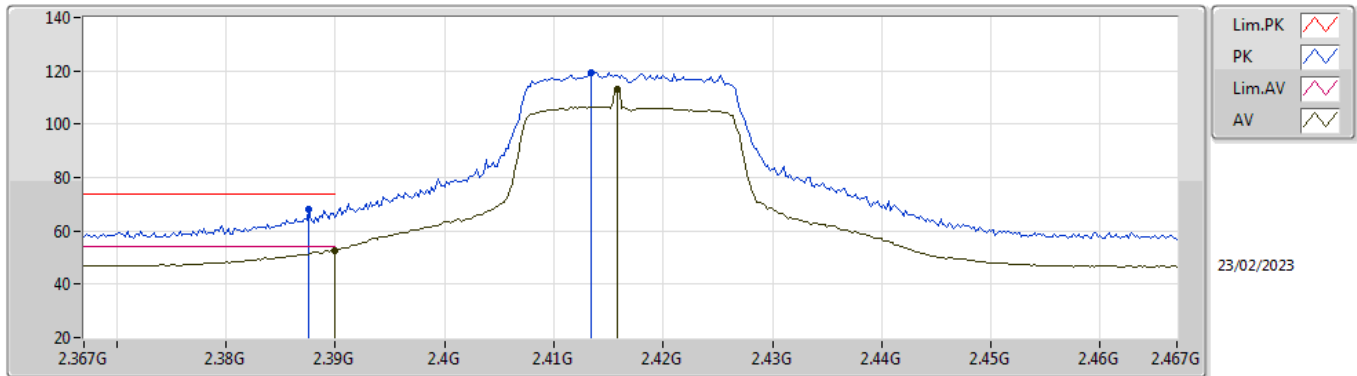


EUT\_Z\_2TX  
 Setting 19  
 03-C-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83642G	47.08	74.00	-26.92	42.04	3	Horizontal	24	1.06	-	33.42	6.52	34.90
AV	4.83174G	33.69	54.00	-20.31	28.68	3	Horizontal	24	1.06	-	33.39	6.52	34.90

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2417MHz\_TX

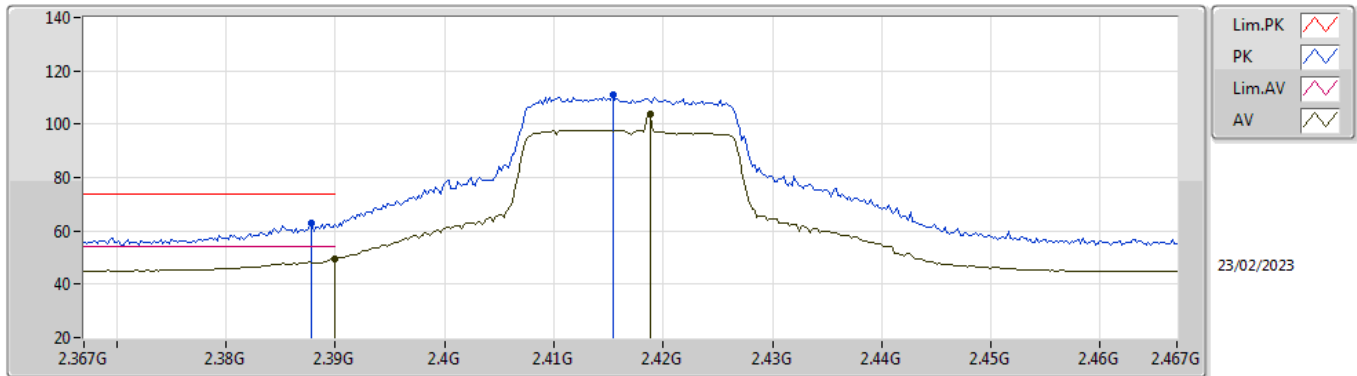


EUT\_Z\_2TX  
Setting 21  
03-C-E-5

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	2.3876G	67.94	74.00	-6.06	35.70	3	Vertical	300	1.71	-	28.25	3.99	-
AV	2.39G	52.65	54.00	-1.35	20.40	3	Vertical	300	1.71	-	28.26	3.99	-
PK	2.4134G	119.36	Inf	-Inf	87.05	3	Vertical	300	1.71	-	28.30	4.01	-
AV	2.4158G	112.91	Inf	-Inf	80.59	3	Vertical	300	1.71	-	28.30	4.02	-

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2417MHz\_TX



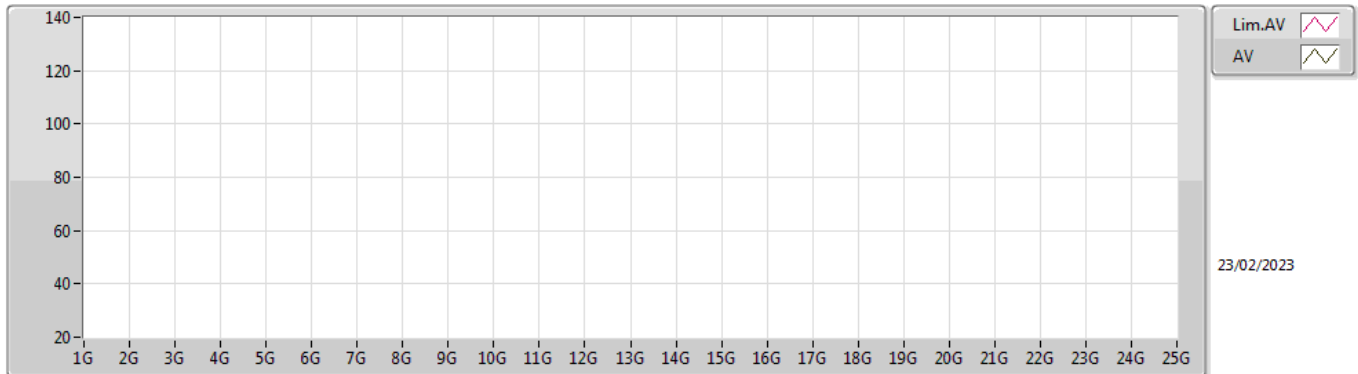
EUT\_Z\_2TX  
 Setting 21  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	62.80	74.00	-11.20	30.61	3	Horizontal	89	1.98	-	28.20	3.99	-
AV	2.39G	49.34	54.00	-4.66	17.15	3	Horizontal	89	1.98	-	28.20	3.99	-
PK	2.4154G	110.92	Inf	-Inf	78.70	3	Horizontal	89	1.98	-	28.20	4.02	-
AV	2.4188G	103.81	Inf	-Inf	71.59	3	Horizontal	89	1.98	-	28.20	4.02	-



2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2417MHz\_TX

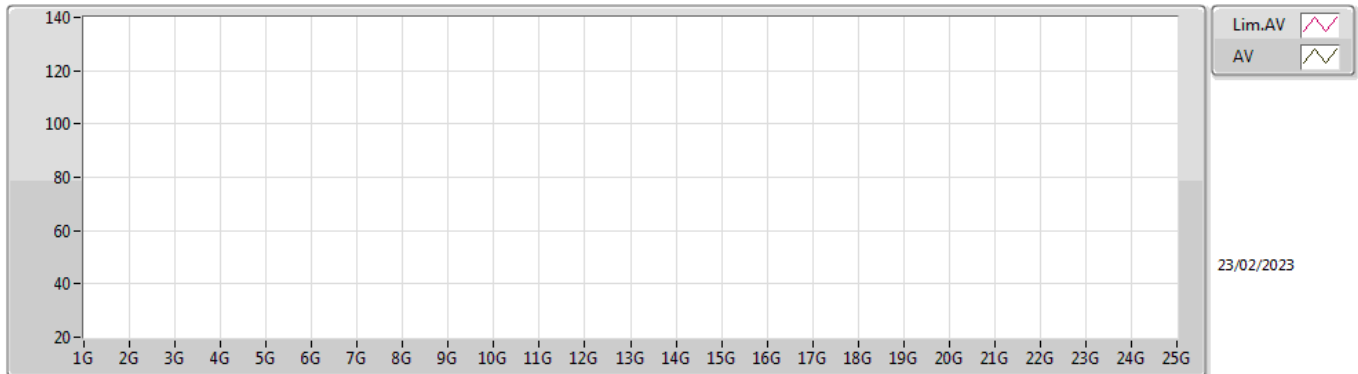


EUT Z\_2TX  
 Setting 21  
 03-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2417MHz\_TX

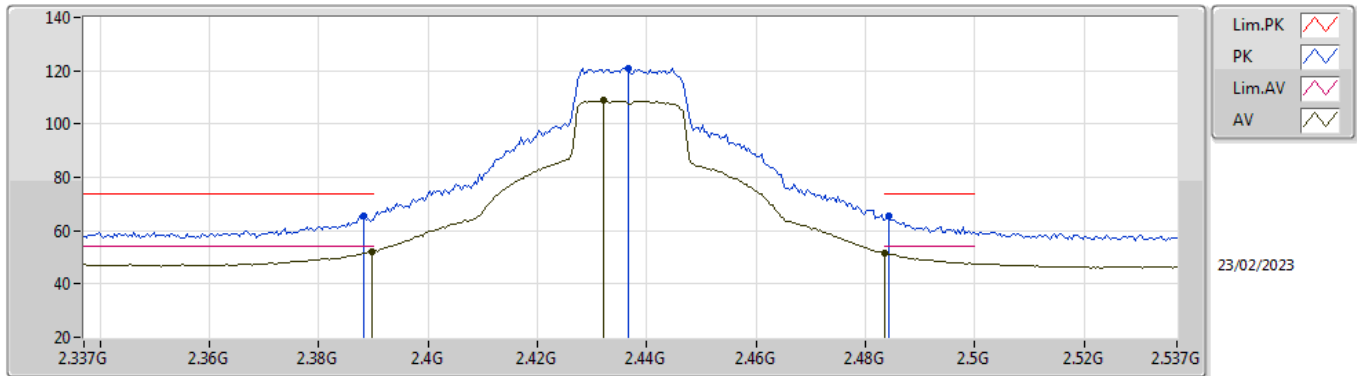


EUT Z\_2TX  
 Setting 21  
 03-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

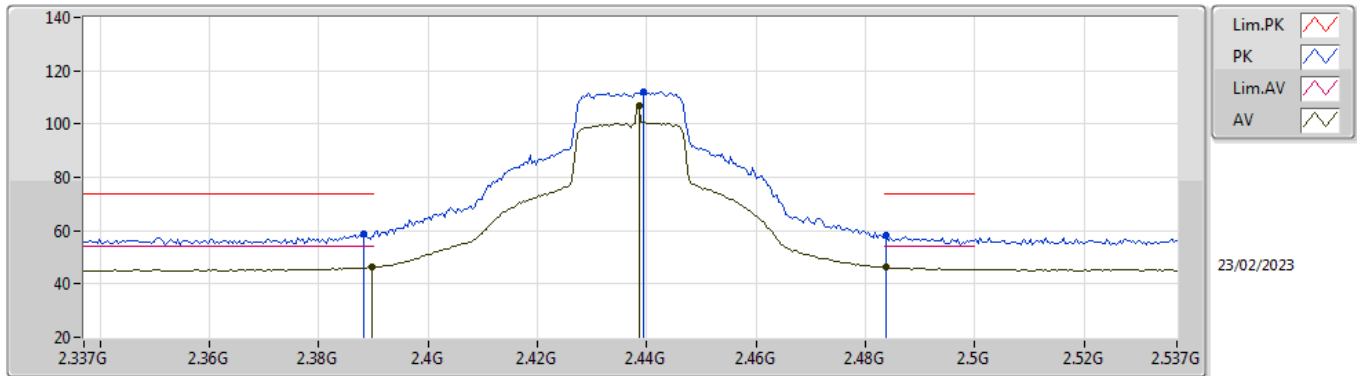


EUT\_Z\_2TX  
Setting 24  
03-C-J-8

Type	Freq (Hz)	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	65.59	74.00	-8.41	33.35	3	Vertical	296	2.11	-	28.25	3.99	-
AV	2.3898G	52.30	54.00	-1.70	20.05	3	Vertical	296	2.11	-	28.26	3.99	-
PK	2.4366G	121.00	Inf	-Inf	88.66	3	Vertical	296	2.11	-	28.30	4.04	-
AV	2.4322G	108.90	Inf	-Inf	76.57	3	Vertical	296	2.11	-	28.30	4.03	-
PK	2.4842G	65.35	74.00	-8.65	32.83	3	Vertical	296	2.11	-	28.44	4.08	-
AV	2.4835G	51.58	54.00	-2.42	19.07	3	Vertical	296	2.11	-	28.43	4.08	-

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

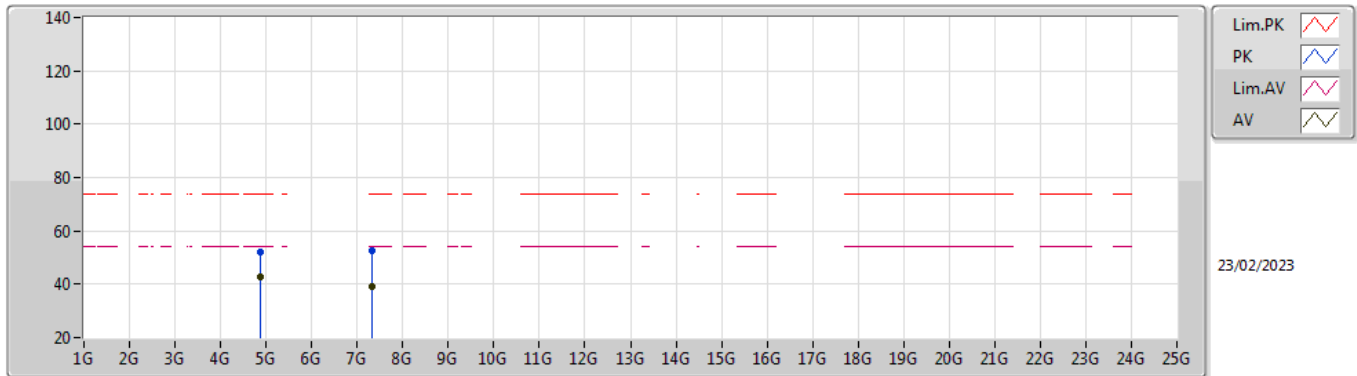


EUT Z\_2TX  
 Setting 24  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	58.72	74.00	-15.28	26.53	3	Horizontal	88	1.93	-	28.20	3.99	-
AV	2.3898G	46.29	54.00	-7.71	14.10	3	Horizontal	88	1.93	-	28.20	3.99	-
PK	2.4394G	112.17	Inf	-Inf	79.93	3	Horizontal	88	1.93	-	28.20	4.04	-
AV	2.4386G	106.76	Inf	-Inf	74.52	3	Horizontal	88	1.93	-	28.20	4.04	-
PK	2.4838G	58.21	74.00	-15.79	25.73	3	Horizontal	88	1.93	-	28.40	4.08	-
AV	2.4838G	46.14	54.00	-7.86	13.66	3	Horizontal	88	1.93	-	28.40	4.08	-

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

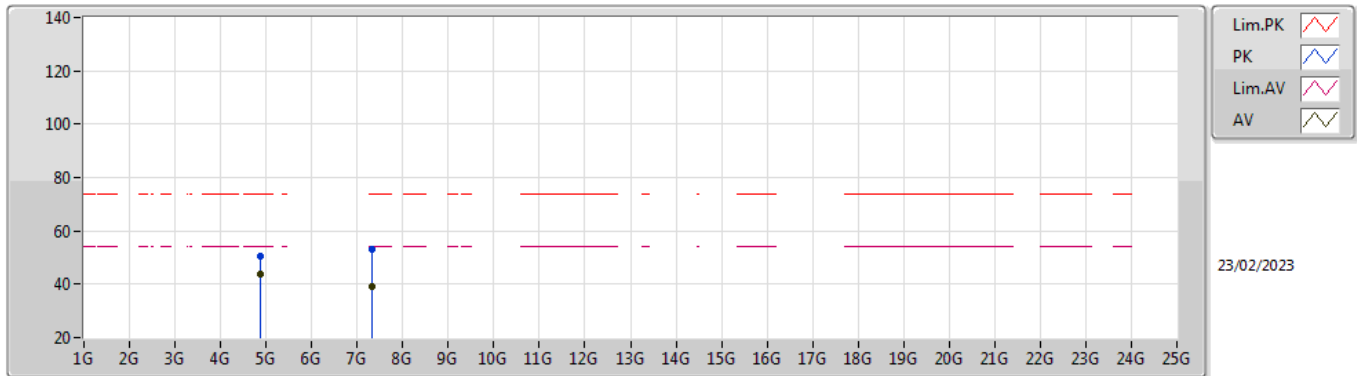


EUT\_Z\_2TX  
Setting 24  
03-C-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87406G	52.17	74.00	-21.83	46.93	3	Vertical	219	1.80	-	33.60	6.54	34.90
AV	4.87442G	42.56	54.00	-11.44	37.32	3	Vertical	219	1.80	-	33.60	6.54	34.90
PK	7.31196G	52.84	74.00	-21.16	42.36	3	Vertical	344	1.80	-	36.92	8.70	35.14
AV	7.31916G	39.12	54.00	-14.88	28.63	3	Vertical	344	1.80	-	36.94	8.70	35.15

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

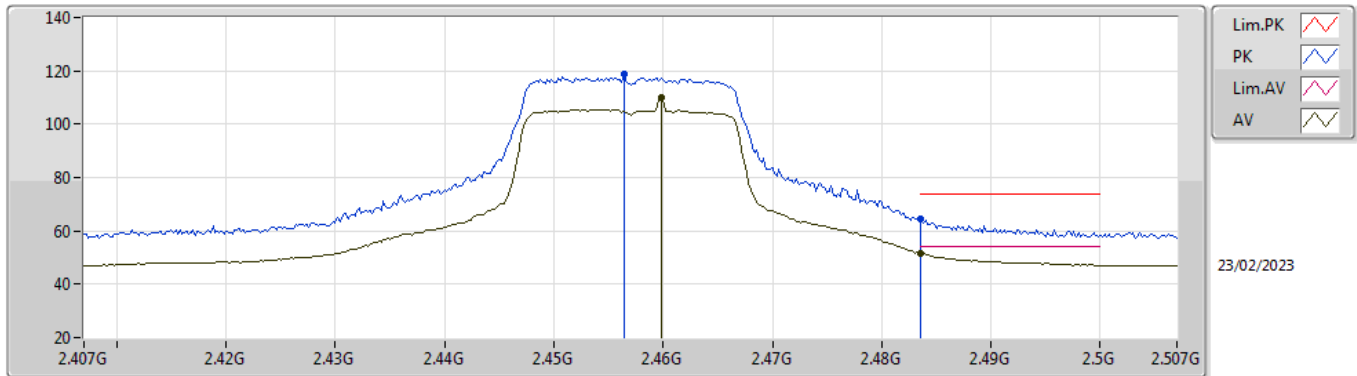


EUT\_Z\_2TX  
 Setting 24  
 03-C-E-5

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	4.87384G	50.32	74.00	-23.68	45.08	3	Horizontal	36	2.50	-	33.60	6.54	34.90
AV	4.8736G	43.64	54.00	-10.36	38.41	3	Horizontal	36	2.50	-	33.59	6.54	34.90
PK	7.31124G	53.24	74.00	-20.76	42.76	3	Horizontal	240	3.00	-	36.92	8.70	35.14
AV	7.32522G	39.05	54.00	-14.95	28.55	3	Horizontal	240	3.00	-	36.95	8.70	35.15

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2457MHz\_TX

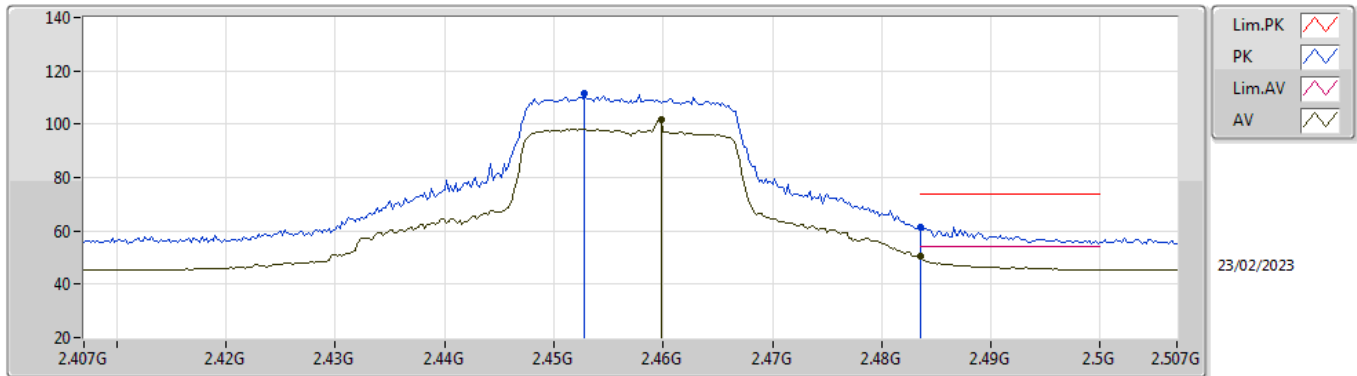


EUT\_Z\_2TX  
Setting 21  
03-C-E-5

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	2.4564G	118.81	Inf	-Inf	86.42	3	Vertical	71	1.75	-	28.33	4.06	-
AV	2.4598G	109.75	Inf	-Inf	77.35	3	Vertical	71	1.75	-	28.34	4.06	-
PK	2.4835G	64.43	74.00	-9.57	31.92	3	Vertical	71	1.75	-	28.43	4.08	-
AV	2.4835G	51.70	54.00	-2.30	19.19	3	Vertical	71	1.75	-	28.43	4.08	-

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2457MHz\_TX



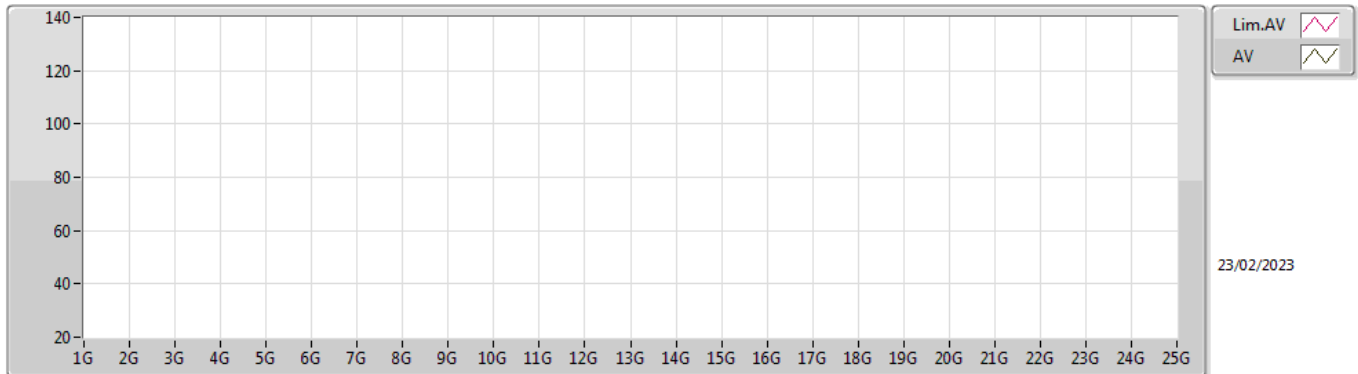
EUT\_Z\_2TX  
Setting 21  
03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4528G	111.36	Inf	-Inf	79.09	3	Horizontal	89	1.92	-	28.22	4.05	-
AV	2.4598G	101.70	Inf	-Inf	69.38	3	Horizontal	89	1.92	-	28.26	4.06	-
PK	2.4835G	61.40	74.00	-12.60	28.92	3	Horizontal	89	1.92	-	28.40	4.08	-
AV	2.4835G	50.37	54.00	-3.63	17.89	3	Horizontal	89	1.92	-	28.40	4.08	-



2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2457MHz\_TX



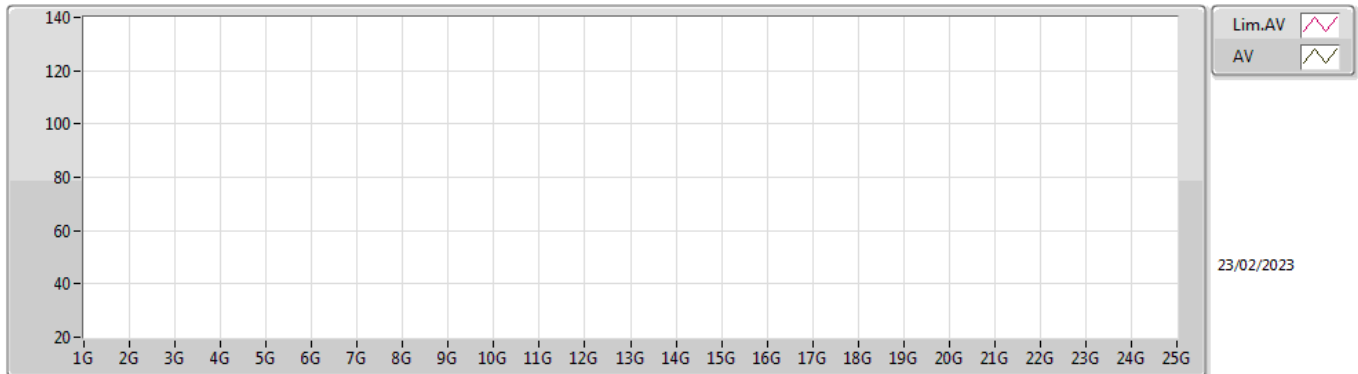
EUT Z\_2TX  
 Setting 21  
 03-C-E-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)



2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2457MHz\_TX

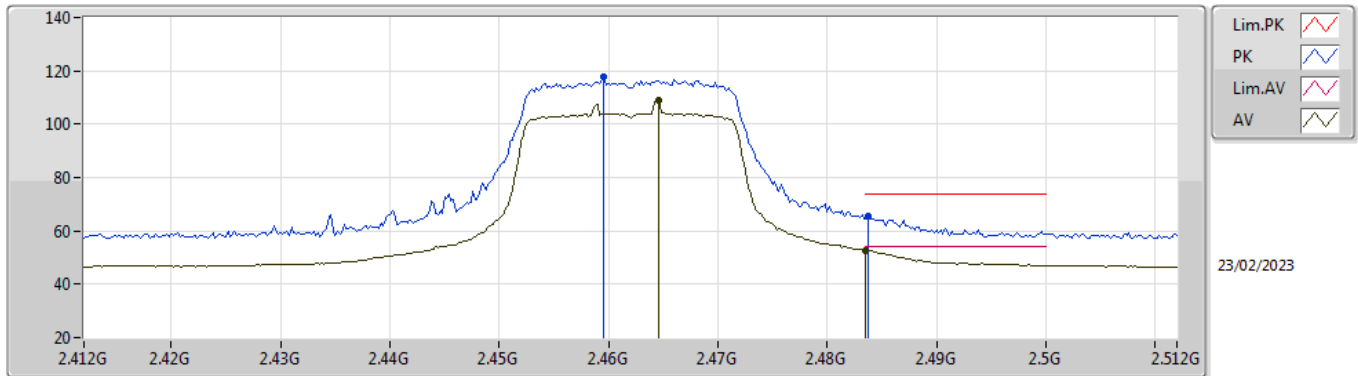


EUT Z\_2TX  
 Setting 21  
 03-C-E-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2462MHz\_TX

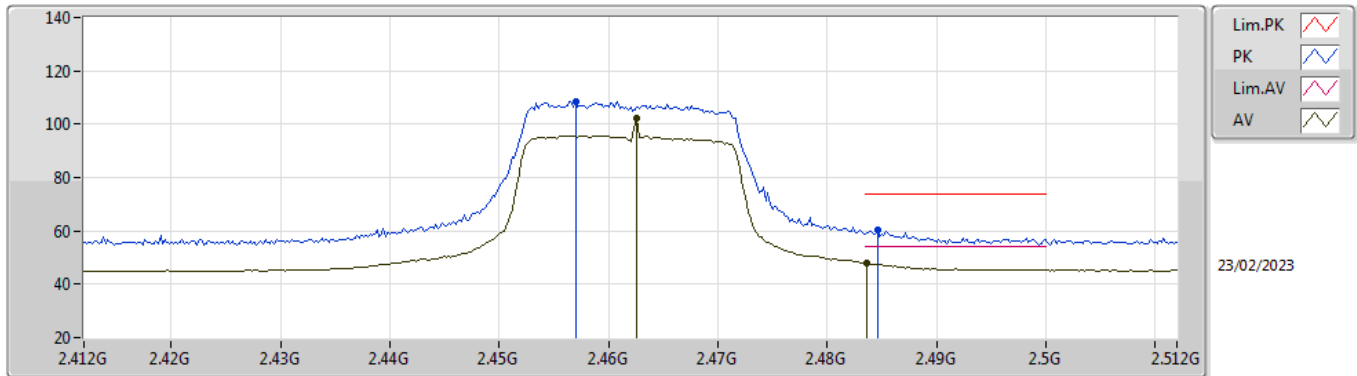


EUT\_Z\_2TX  
Setting 19  
03-C-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4596G	117.57	Inf	-Inf	85.17	3	Vertical	303	1.82	-	28.34	4.06	-
AV	2.4646G	109.01	Inf	-Inf	76.59	3	Vertical	303	1.82	-	28.36	4.06	-
PK	2.4838G	65.27	74.00	-8.73	32.75	3	Vertical	303	1.82	-	28.44	4.08	-
AV	2.4835G	52.44	54.00	-1.56	19.93	3	Vertical	303	1.82	-	28.43	4.08	-

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2462MHz\_TX

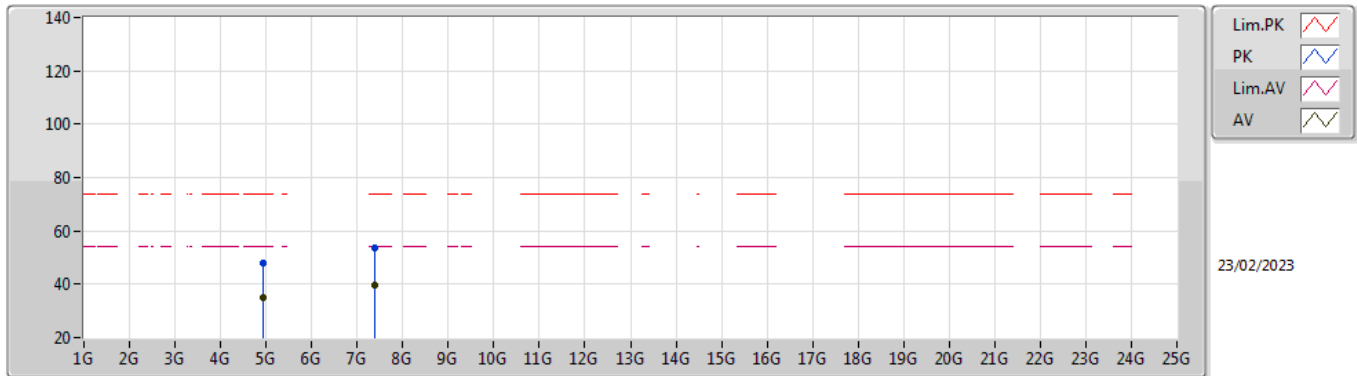


EUT\_Z\_2TX  
 Setting 19  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.457G	108.46	Inf	-Inf	76.16	3	Horizontal	87	1.90	-	28.24	4.06	-
AV	2.4626G	102.18	Inf	-Inf	69.84	3	Horizontal	87	1.90	-	28.28	4.06	-
PK	2.4846G	60.39	74.00	-13.61	27.90	3	Horizontal	87	1.90	-	28.41	4.08	-
AV	2.4836G	47.85	54.00	-6.15	15.37	3	Horizontal	87	1.90	-	28.40	4.08	-

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2462MHz\_TX

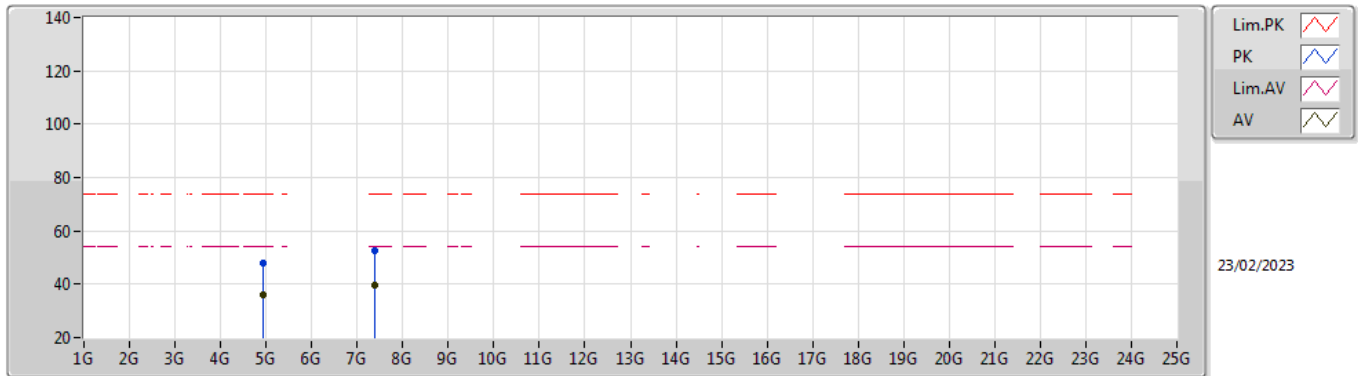


EUT\_Z\_2TX  
Setting 19  
03-C-E-5

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	4.93144G	48.13	74.00	-25.87	42.69	3	Vertical	219	1.55	-	33.76	6.57	34.89
AV	4.92334G	34.87	54.00	-19.13	29.45	3	Vertical	219	1.55	-	33.75	6.56	34.89
PK	7.3902G	53.47	74.00	-20.53	42.95	3	Vertical	171	1.82	-	37.00	8.70	35.18
AV	7.40076G	39.53	54.00	-14.47	29.01	3	Vertical	171	1.82	-	37.00	8.70	35.18

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2462MHz\_TX

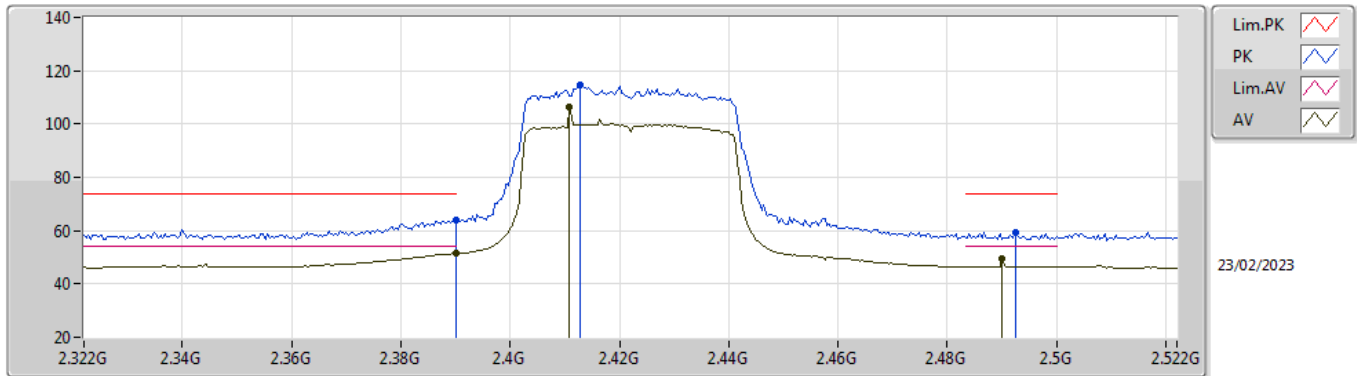


EUT\_Z\_2TX  
Setting 19  
03-C-E-5

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	4.93858G	47.85	74.00	-26.15	42.39	3	Horizontal	0	1.05	-	33.78	6.57	34.89
AV	4.9243G	36.26	54.00	-17.74	30.84	3	Horizontal	0	1.05	-	33.75	6.56	34.89
PK	7.3857G	52.61	74.00	-21.39	42.09	3	Horizontal	148	2.08	-	37.00	8.70	35.18
AV	7.39596G	39.56	54.00	-14.44	29.04	3	Horizontal	148	2.08	-	37.00	8.70	35.18

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2422MHz\_TX

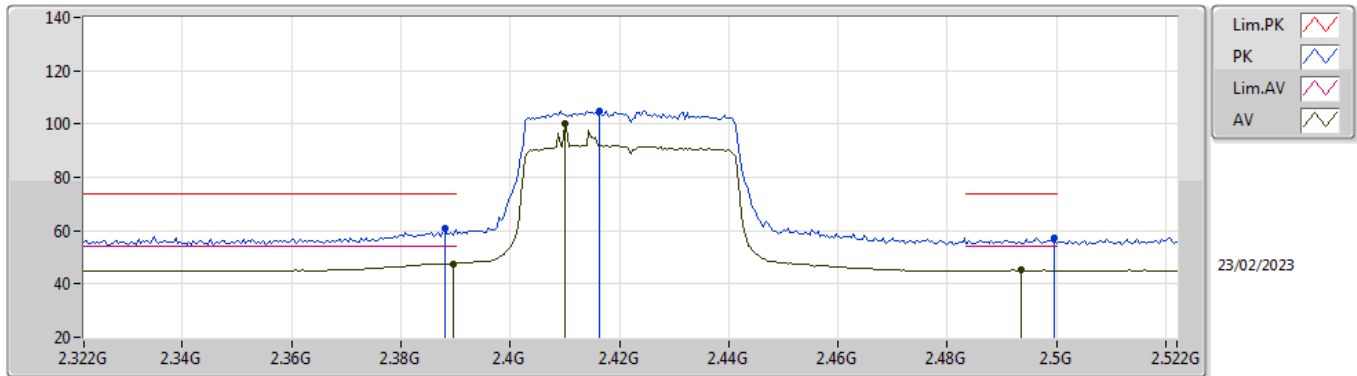


EUT\_Z\_2TX  
Setting 18  
03-C-E-5

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	64.01	74.00	-9.99	31.76	3	Vertical	300	1.80	-	28.26	3.99	-
AV	2.39G	51.33	54.00	-2.67	19.08	3	Vertical	300	1.80	-	28.26	3.99	-
PK	2.4128G	114.44	Inf	-Inf	82.13	3	Vertical	300	1.80	-	28.30	4.01	-
AV	2.4108G	106.31	Inf	-Inf	74.00	3	Vertical	300	1.80	-	28.30	4.01	-
PK	2.4924G	59.21	74.00	-14.79	26.65	3	Vertical	300	1.80	-	28.47	4.09	-
AV	2.49G	49.56	54.00	-4.44	17.01	3	Vertical	300	1.80	-	28.46	4.09	-

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2422MHz\_TX



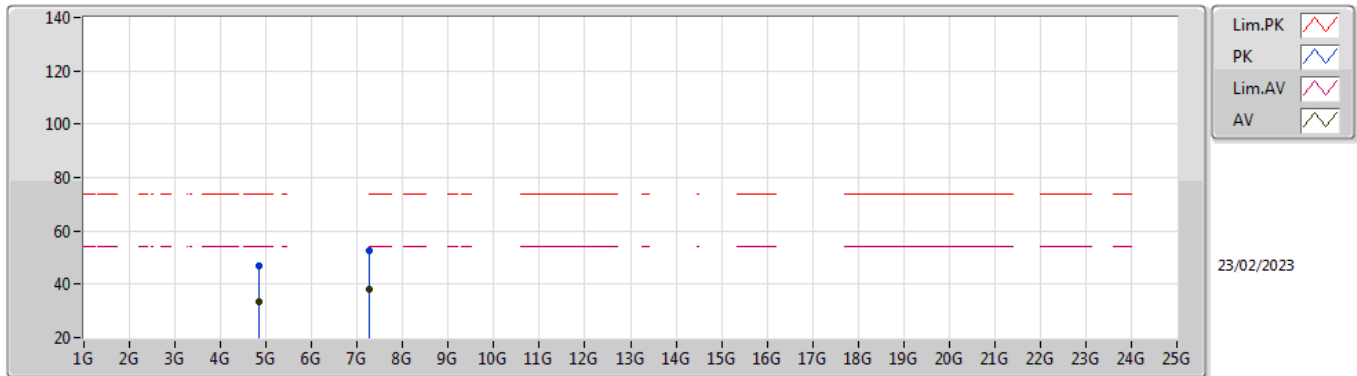
EUT Z\_2TX  
Setting 18  
03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	60.63	74.00	-13.37	28.44	3	Horizontal	92	1.93	-	28.20	3.99	-
AV	2.3896G	47.64	54.00	-6.36	15.45	3	Horizontal	92	1.93	-	28.20	3.99	-
PK	2.4164G	104.99	Inf	-Inf	72.77	3	Horizontal	92	1.93	-	28.20	4.02	-
AV	2.41G	100.04	Inf	-Inf	67.83	3	Horizontal	92	1.93	-	28.20	4.01	-
PK	2.4996G	57.11	74.00	-16.89	24.51	3	Horizontal	92	1.93	-	28.50	4.10	-
AV	2.4936G	45.14	54.00	-8.86	12.59	3	Horizontal	92	1.93	-	28.46	4.09	-



2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2422MHz\_TX

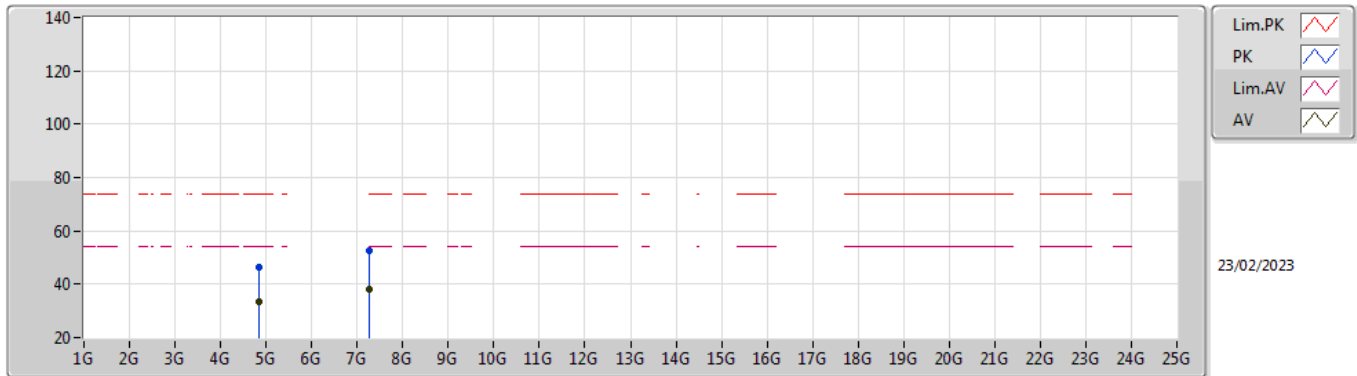


EUT\_Z\_2TX  
Setting 18  
03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83764G	46.64	74.00	-27.36	41.62	3	Vertical	255	2.98	-	33.40	6.52	34.90
AV	4.83716G	33.22	54.00	-20.78	28.20	3	Vertical	255	2.98	-	33.40	6.52	34.90
PK	7.26396G	52.36	74.00	-21.64	42.12	3	Vertical	108	2.03	-	36.66	8.70	35.12
AV	7.25644G	38.26	54.00	-15.74	28.05	3	Vertical	108	2.03	-	36.63	8.70	35.12

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2422MHz\_TX

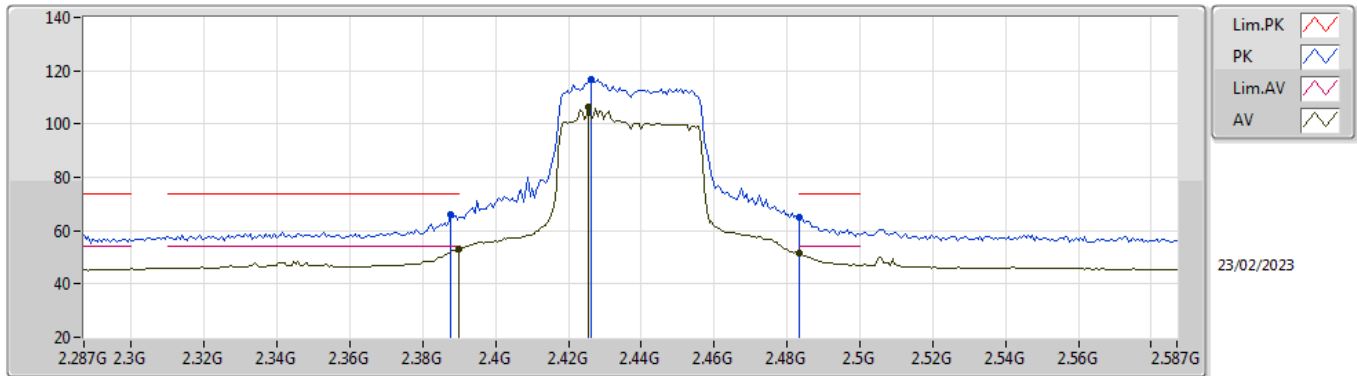


EUT\_Z\_2TX  
 Setting 18  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8388G	46.54	74.00	-27.46	41.52	3	Horizontal	238	2.44	-	33.40	6.52	34.90
AV	4.8384G	33.29	54.00	-20.71	28.27	3	Horizontal	238	2.44	-	33.40	6.52	34.90
PK	7.2686G	52.68	74.00	-21.32	42.43	3	Horizontal	233	2.28	-	36.67	8.70	35.12
AV	7.2564G	38.26	54.00	-15.74	28.05	3	Horizontal	233	2.28	-	36.63	8.70	35.12

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

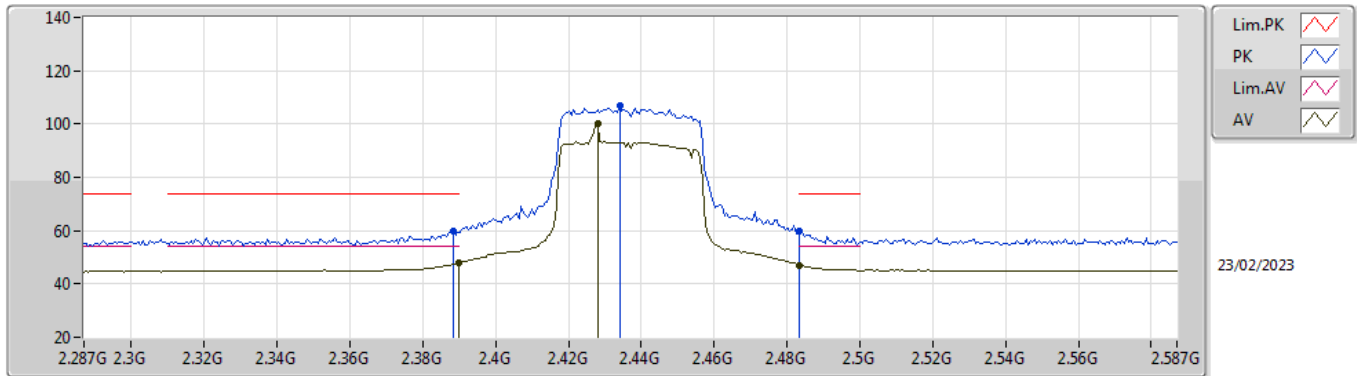


EUT\_Z\_2TX  
Setting 20  
03-C-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	66.14	74.00	-7.86	33.90	3	Vertical	300	1.96	-	28.25	3.99	-
AV	2.39G	52.96	54.00	-1.04	20.71	3	Vertical	300	1.96	-	28.26	3.99	-
PK	2.4262G	116.51	Inf	-Inf	84.18	3	Vertical	300	1.96	-	28.30	4.03	-
AV	2.4256G	106.57	Inf	-Inf	74.24	3	Vertical	300	1.96	-	28.30	4.03	-
PK	2.4835G	64.83	74.00	-9.17	32.32	3	Vertical	300	1.96	-	28.43	4.08	-
AV	2.4835G	51.67	54.00	-2.33	19.16	3	Vertical	300	1.96	-	28.43	4.08	-

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

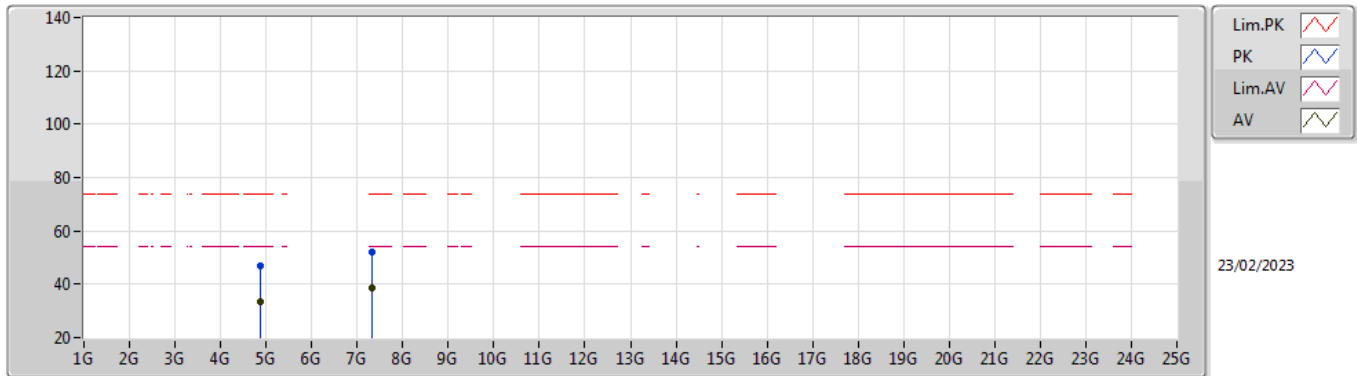


EUT Z\_2TX  
 Setting 20  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	59.93	74.00	-14.07	27.74	3	Horizontal	79	2.17	-	28.20	3.99	-
AV	2.39G	48.09	54.00	-5.91	15.90	3	Horizontal	79	2.17	-	28.20	3.99	-
PK	2.434G	106.83	Inf	-Inf	74.60	3	Horizontal	79	2.17	-	28.20	4.03	-
AV	2.428G	99.94	Inf	-Inf	67.71	3	Horizontal	79	2.17	-	28.20	4.03	-
PK	2.4835G	60.02	74.00	-13.98	27.54	3	Horizontal	79	2.17	-	28.40	4.08	-
AV	2.4835G	47.05	54.00	-6.95	14.57	3	Horizontal	79	2.17	-	28.40	4.08	-

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

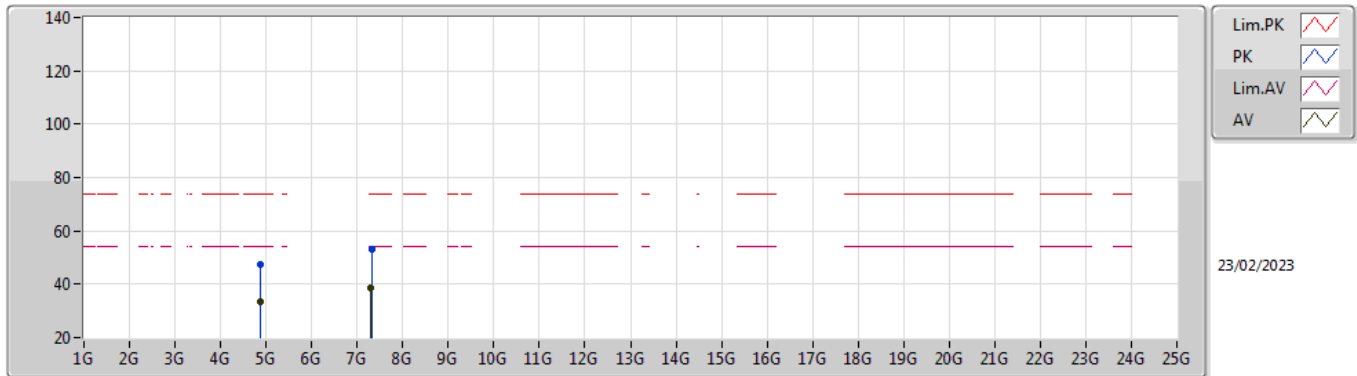


EUT\_Z\_2TX  
 Setting 20  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87984G	46.96	74.00	-27.04	41.73	3	Vertical	95	1.78	-	33.58	6.54	34.89
AV	4.88096G	33.60	54.00	-20.40	28.36	3	Vertical	95	1.78	-	33.59	6.54	34.89
PK	7.31104G	52.26	74.00	-21.74	41.88	3	Vertical	131	1.59	-	36.82	8.70	35.14
AV	7.317G	38.51	54.00	-15.49	28.13	3	Vertical	131	1.59	-	36.83	8.70	35.15

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

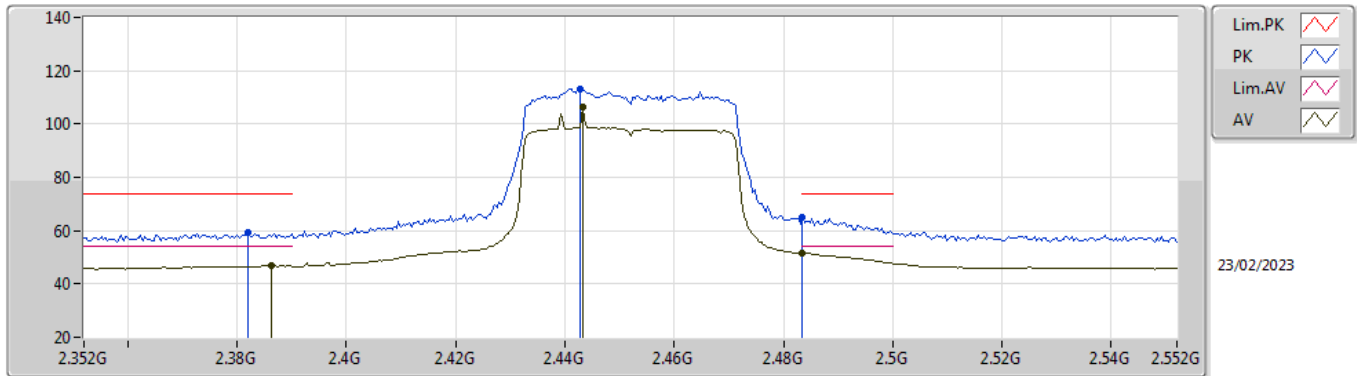


EUT\_Z\_2TX  
 Setting 20  
 03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88148G	47.21	74.00	-26.79	41.97	3	Horizontal	57	2.32	-	33.59	6.54	34.89
AV	4.88128G	33.59	54.00	-20.41	28.35	3	Horizontal	57	2.32	-	33.59	6.54	34.89
PK	7.3126G	53.02	74.00	-20.98	42.63	3	Horizontal	196	2.10	-	36.83	8.70	35.14
AV	7.3078G	38.46	54.00	-15.54	28.08	3	Horizontal	196	2.10	-	36.82	8.70	35.14

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2452MHz\_TX

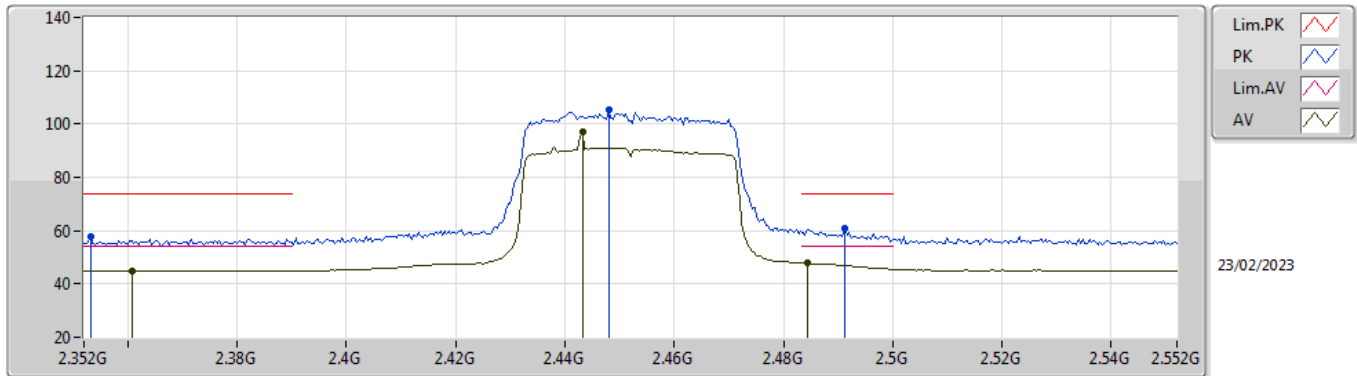


EUT Z\_2TX  
Setting 18  
03-C-E-5

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	2.382G	59.28	74.00	-14.72	27.07	3	Vertical	68	1.49	-	28.23	3.98	-
AV	2.3864G	46.71	54.00	-7.29	14.47	3	Vertical	68	1.49	-	28.25	3.99	-
PK	2.4428G	113.20	Inf	-Inf	80.86	3	Vertical	68	1.49	-	28.30	4.04	-
AV	2.4432G	106.13	Inf	-Inf	73.79	3	Vertical	68	1.49	-	28.30	4.04	-
PK	2.4835G	65.06	74.00	-8.94	32.55	3	Vertical	68	1.49	-	28.43	4.08	-
AV	2.4835G	51.50	54.00	-2.50	18.99	3	Vertical	68	1.49	-	28.43	4.08	-

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2452MHz\_TX



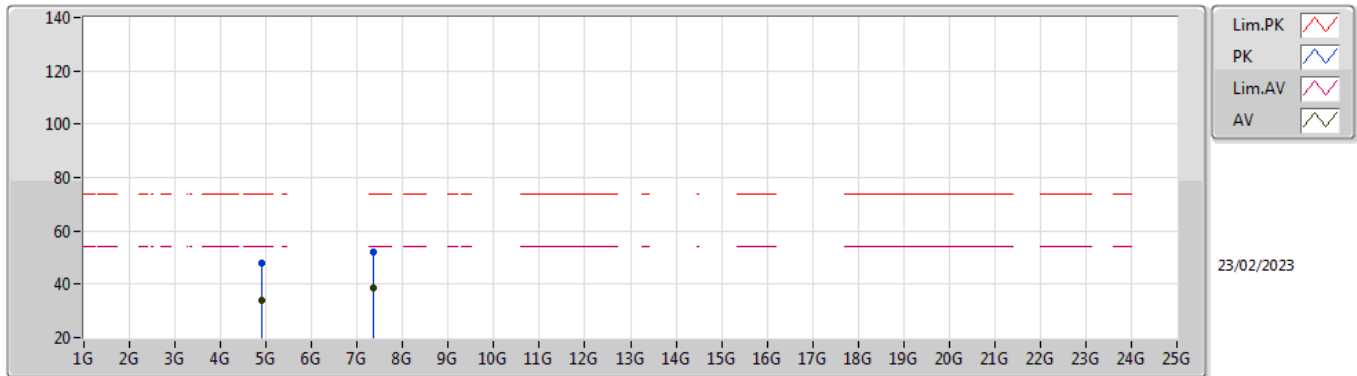
EUT Z\_2TX  
Setting 18  
03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3532G	57.90	74.00	-16.10	25.75	3	Horizontal	71	1.80	-	28.20	3.95	-
AV	2.3608G	44.97	54.00	-9.03	12.81	3	Horizontal	71	1.80	-	28.20	3.96	-
PK	2.448G	105.13	Inf	-Inf	72.88	3	Horizontal	71	1.80	-	28.20	4.05	-
AV	2.4432G	97.06	Inf	-Inf	64.82	3	Horizontal	71	1.80	-	28.20	4.04	-
PK	2.4912G	60.64	74.00	-13.36	28.10	3	Horizontal	71	1.80	-	28.45	4.09	-
AV	2.4844G	47.77	54.00	-6.23	15.28	3	Horizontal	71	1.80	-	28.41	4.08	-



2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2452MHz\_TX

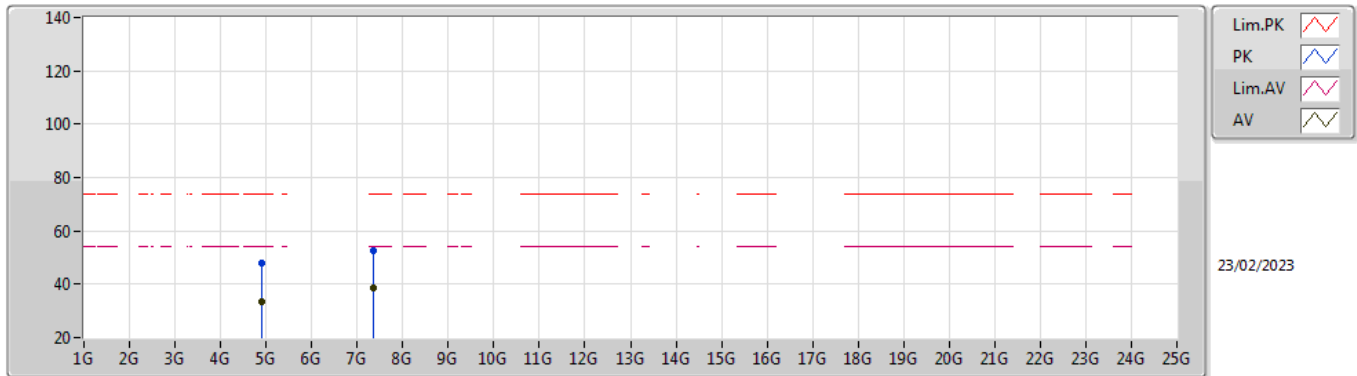


EUT\_Z\_2TX  
Setting 18  
03-C-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.89556G	47.85	74.00	-26.15	42.52	3	Vertical	316	2.28	-	33.67	6.55	34.89
AV	4.897G	33.71	54.00	-20.29	28.37	3	Vertical	316	2.28	-	33.68	6.55	34.89
PK	7.35692G	52.03	74.00	-21.97	41.59	3	Vertical	287	2.68	-	36.90	8.70	35.16
AV	7.36552G	38.56	54.00	-15.44	28.13	3	Vertical	287	2.68	-	36.90	8.70	35.17

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2452MHz\_TX



EUT\_Z\_2TX  
Setting 18  
03-C-R-5

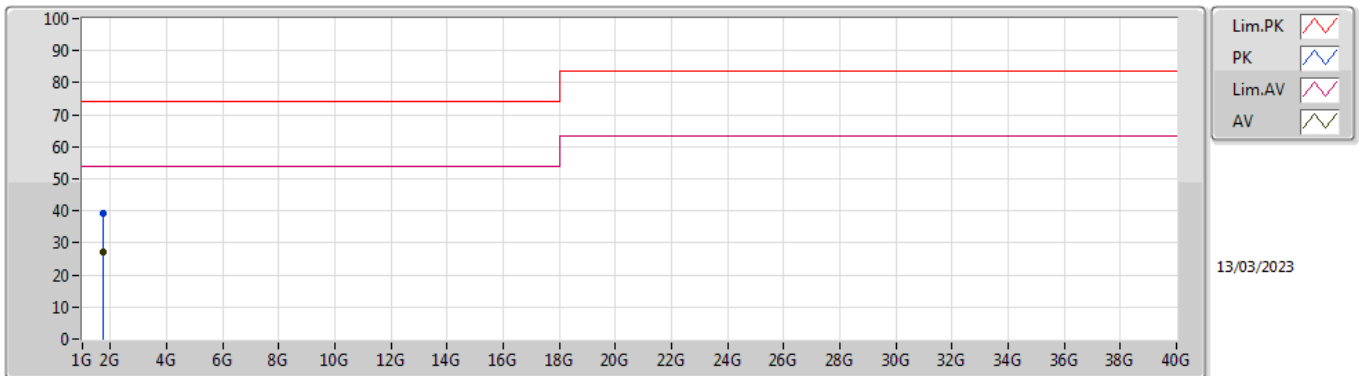
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90776G	47.70	74.00	-26.30	42.36	3	Horizontal	2	2.45	-	33.68	6.55	34.89
AV	4.89752G	33.70	54.00	-20.30	28.35	3	Horizontal	2	2.45	-	33.69	6.55	34.89
PK	7.34644G	52.38	74.00	-21.62	41.95	3	Horizontal	197	2.94	-	36.89	8.70	35.16
AV	7.36544G	38.58	54.00	-15.42	28.15	3	Horizontal	197	2.94	-	36.90	8.70	35.17



**Summary**

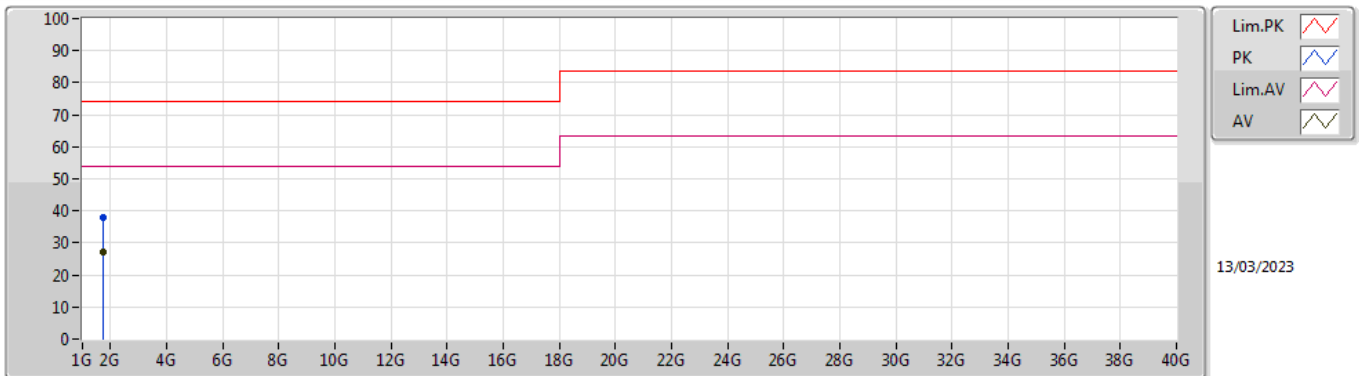
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.75142G	27.12	54.00	-26.88	Vertical

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	1.75236G	39.11	74.00	-34.89	-5.12	3	Vertical	266	1.50	-	44.23	25.40	4.24	34.76
AV	1.75142G	27.12	54.00	-26.88	-5.12	3	Vertical	266	1.50	"Worst"	32.24	25.40	4.24	34.76

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	1.7527G	38.07	74.00	-35.93	-5.11	3	Horizontal	325	1.50	-	43.18	25.41	4.24	34.76
AV	1.7598G	26.99	54.00	-27.01	-5.08	3	Horizontal	325	1.50	"Worst"	32.07	25.42	4.25	34.75