



# RADIO TEST REPORT

**FCC ID** : MSQ-RTAX5Q00  
**Equipment** : Wireless-AX5700 Dual-band Gigabit Router  
**Brand Name** : ASUS  
**Model Name** : RT-AX86U Pro  
**Applicant** : ASUSTeK COMPUTER INC.  
1F., No. 15, Lide Rd., Beitou, Taipei City 112, Taiwan  
**Manufacturer (1)** : Compal Networking(KunShan) CO., LTD  
No.520,Nan Bang RD., Economic & Technical  
Development Zone, KunShan,JiangSu,China  
**Manufacturer (2)** : ARCADYAN TECHNOLOGY (VIETNAM) CO., LTD.  
Land plot No. D4-5-6, Thang Long Industrial Park  
(Vinh Phuc), Thien Ke Commune, Binh Xuyen  
District, Vinh Phuc Province, Vietnam  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Mar. 17, 2022, and testing was started from Mar. 30, 2022 and completed on Aug. 17, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Sam Chen

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



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### History of this test report

Report No.	Version	Description	Issued Date
FR230333AA	01	Initial issue of report	Sep. 05, 2022



## Summary of Test Result

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

**Declaration of Conformity:**

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

**Comments and Explanations:**

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

**Reviewed by: Sam Chen****Report Producer: Viola Huang**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	3TX
2.4-2.4835GHz	802.11g	20	3TX
2.4-2.4835GHz	802.11n HT20	20	3TX
2.4-2.4835GHz	802.11n HT20-BF	20	3TX
2.4-2.4835GHz	VHT20	20	3TX
2.4-2.4835GHz	VHT20-BF	20	3TX
2.4-2.4835GHz	802.11ax HEW20	20	3TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	3TX
2.4-2.4835GHz	802.11n HT40	40	3TX
2.4-2.4835GHz	802.11n HT40-BF	40	3TX
2.4-2.4835GHz	VHT40	40	3TX
2.4-2.4835GHz	VHT40-BF	40	3TX
2.4-2.4835GHz	802.11ax HEW40	40	3TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	3TX

**Note:**

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



**1.1.2 Antenna Information**

Ant.	2.4GHz Port	5GHz Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	3	3	M.gear	C660-510490-A	Metal Dipole Antenna	Reversed-SMA	Note 1
2	2	1	M.gear	C660-510490-A	Metal Dipole Antenna	Reversed-SMA	
3	1	4	M.gear	C660-510490-A	Metal Dipole Antenna	Reversed-SMA	
4	-	2	M.gear	C660-510579-A	PCB Antenna	I-PEX	

Note 1:

Ant.	Antenna Gain (dBi)				
	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3
1	1.66	1.9	1.9	1.9	1.9
2	1.66	1.9	1.9	1.9	1.9
3	1.66	1.9	1.9	1.9	1.9
4	-	3	3	3	3

Note 2: The above information was declared by manufacturer.

Note 3: The EUT has four antennas.

Note 4: 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	$Directional\ IGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left( \sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$
BF	$Directional\ IGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left( \sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$	$Directional\ IGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left( \sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

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

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

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

$$DG = 10 \log \left[ \frac{(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3))^2}{N_{ANT}} \right] \Rightarrow 10 \log \left[ \frac{(10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2}{N_{ANT}} \right]$$

Where ;

$$G1 = 10 ; G2 = 10 ; G3 = 10 ; G4 = 10 ;$$

external dipole 3TX Vertical

internal PCB dipole 1TX Horizontal

Calculated using external dipole

$$2.4G\ G1 = 1.66\ dBi ; G2 = 1.66\ dBi ; G3 = 1.66\ dBi ; 3T1S\ DG = 6.43\ dBi ; 3T2S\ DG = 3.42\ dBi$$

$$5G\ G1 = 1.9\ dBi ; G2 = 1.9\ dBi ; G3 = 1.9\ dBi ; 3T1S\ DG = 6.67\ dBi ; 3T2S\ DG = 4.91\ dBi$$



**For 2.4GHz function:**

**For IEEE 802.11 b/g/n/VHT/ax mode (3TX/3RX)**

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

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

**For 5GHz function:**

**For IEEE 802.11a/n/ac/ax mode (4TX/4RX)**

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

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

**1.1.3 Mode Test Duty Cycle**

**For 3T1S**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.949	0.23	12.488m	100
802.11g	0.991	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20-BF	0.976	0.11	4.383m	300
802.11ax HEW40-BF	0.961	0.17	4.383m	300

**For 3T2S**

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

**Note:**

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

**1.1.4 EUT Operational Condition**

<b>EUT Power Type</b>	From Power Adapter			
<b>Beamforming Function</b>	<input checked="" type="checkbox"/> With beamforming	<input type="checkbox"/> Without beamforming		
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
<b>Function</b>	<input checked="" type="checkbox"/> Point-to-multipoint	<input type="checkbox"/> Point-to-point		
<b>Test Software Version</b>	Mtool_v3.2.0.0			

Note: The above information was declared by manufacturer.



**1.1.5 Table for EUT supports function**

<b>Function</b>	<b>Supports type</b>
AP Router	Master
Bridge	Client without radar detection
Repeater	Master
Mesh	Master

Note: The AP Router mode has been tested and recorded in this test report.





### 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	TH01-CB	Serway Lee	25.1~26.4 / 65~67	Jul. 14, 2022~Jul. 26, 2022
Radiated below 1GHz	03CH05-CB	Simmon Cheng	23.4~25.4 / 64~68	Jul. 01, 2022~Aug. 17, 2022
Radiated above 1GHz (for other tests)	03CH03-CB	Simmon Cheng	25.1~27.1 / 64~68	Jul. 01, 2022~Aug. 17, 2022
	03CH06-CB	Simmon Cheng	25.2~27 / 67~68	Jul. 01, 2022~Aug. 17, 2022
Radiated above 1GHz (for co-location test)	03CH03-CB	Simmon Cheng	23.2~24.6 / 65~68	Jul. 01, 2022~Aug. 17, 2022
AC Conduction	CO01-CB	Peter Wu	20~22 / 60~62	Mar. 30, 2022



### 1.4 Measurement Uncertainty

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

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



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

For 3T1S / For non beamforming and beamforming mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_3TX	-
2412MHz	101
2437MHz	101
2462MHz	98
802.11g_Nss1,(6Mbps)_3TX	-
2412MHz	81
2417MHz	85
2437MHz	101
2457MHz	81
2462MHz	78
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	-
2412MHz	79
2417MHz	80
2437MHz	98
2457MHz	84
2462MHz	76
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	-
2422MHz	75
2437MHz	81
2452MHz	71

For 3T2S / For non beamforming mode

Mode	Power Setting
802.11ax HEW20_Nss2,(MCS0)_3TX	-
2412MHz	74
2417MHz	87
2437MHz	99
2457MHz	84
2462MHz	78
802.11ax HEW40_Nss2,(MCS0)_3TX	-
2422MHz	71
2427MHz	76
2437MHz	83
2452MHz	74

**Note:**

- ♦ Evaluated HEW20/HEW40 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.
- ♦ For 3T1S: 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	AP Router mode_EUT + Adapter 1 + Power cord
2	AP Router mode_EUT + Adapter 3
3	AP Router mode_EUT + Adapter 4
4	AP Router mode_EUT + Adapter 5
For operating mode 2 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

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Emissions in Restricted Frequency Bands
<b>Test Condition</b>	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
<b>Operating Mode &lt; 1GHz</b>	CTX The EUT was performed at X axis, Y axis and Z axis positio for Emissions in Restricted Frequency Bands above 1GHz, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis_2.4GHz + Adapter 1 + Power cord
2	EUT in Y axis_2.4GHz + Adapter 3
3	EUT in Y axis_2.4GHz + Adapter 4
4	EUT in Y axis_2.4GHz + Adapter 5



Mode 1 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 in Y axis_5GHz + Adapter 1 + Power cord
For operating mode 5 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis positio, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
	The EUT was performed at X axis, Y axis and Z axis positio for Emissions in Restricted Frequency Bands above 1GHz, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
Operating Mode	Normal Link
1	EUT in Y 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
Refer to Sporton Test Report No.: FA230333 for Co-location RF Exposure Evaluation.	



### 2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

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

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by 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	DC Power Line
Adapter 1	AcBel	ADH011	INPUT: 100-240V, 1.4A, 50-60Hz OUTPUT: 19.5V, 2.31A, 45.0W MAX	Non-Shielded, 1.6m
Adapter 2	AcBel	ADH011	INPUT: 100-240V, 1.4A, 50-60Hz OUTPUT: 19.5V, 2.31A, 45.0W MAX	Non-Shielded, 1.6m
Adapter 3	LEI	MU36D1120300-A1	INPUT: 100-240V, 50/60Hz, 1.0A OUTPUT: 12V, 3A	-
Adapter 4	APD	WA-36N12FU	INPUT: 100-240V, 50-60Hz, 0.9A Max OUTPUT: 12.0V, 3.0A	-
Adapter 5	LEI	MU36B1120300-A1	INPUT: 100-240V, 50/60Hz, 1A OUTPUT: 12V, 3A	-
Others				
RJ-45 cable*1, non-shielded, 1.5m				
Power cord*1, non-shielded, 0.9m (Only for adapter 1 and adapter 2 use)				

Note: The difference between Adapter 1 & Adapter 2 is only for agents, there is only adapter 1 tested and recorded in this report.



## 2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	2.5G LAN PC	DELL	T3400	N/A
B	LAN1 NB	DELL	E6430	N/A
C	LAN4 NB	DELL	E6430	N/A
D	WAN NB	DELL	E6430	N/A
E	2.4G NB	DELL	E6430	N/A
F	5G NB	DELL	E6430	N/A
G	HDD3.0	Transcend	TS1TSJ25A3K	N/A
H	HDD3.0	Transcend	TS1TSJ25A3K	N/A

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

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

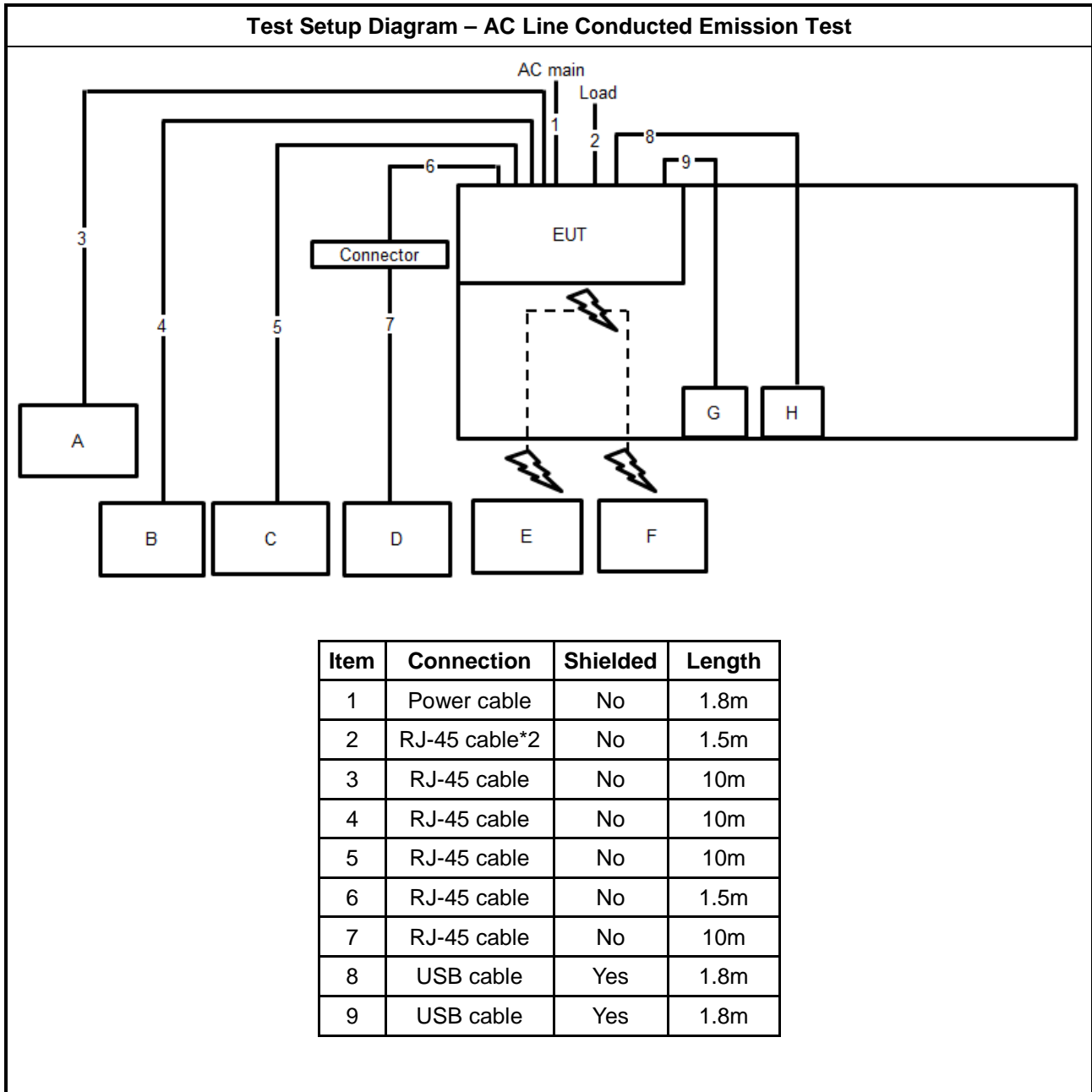
For Radiated (above 1GHz) / Beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Client	ASUS	XT8P	N/A

For RF Conducted:

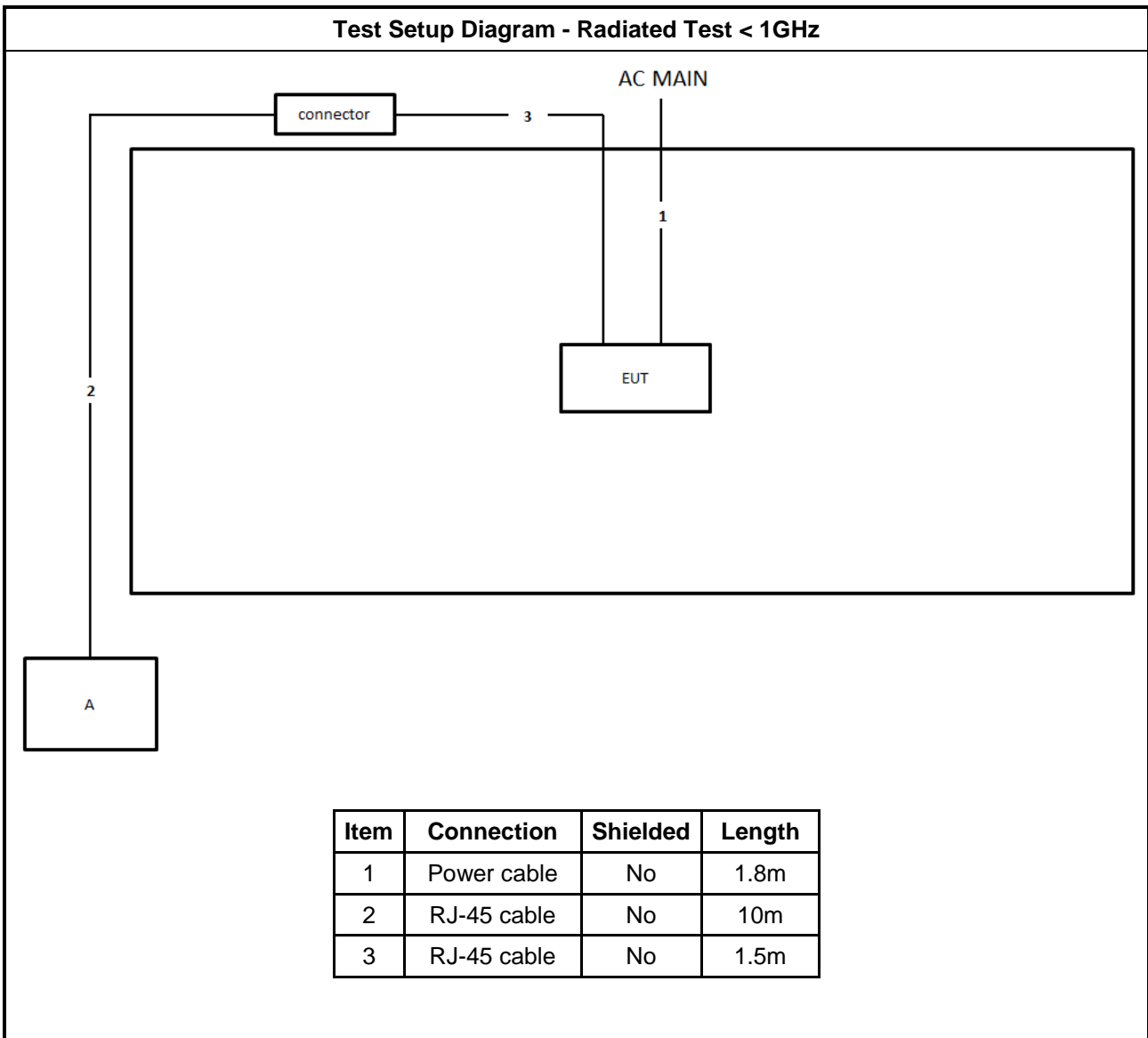
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

## 2.6 Test Setup Diagram

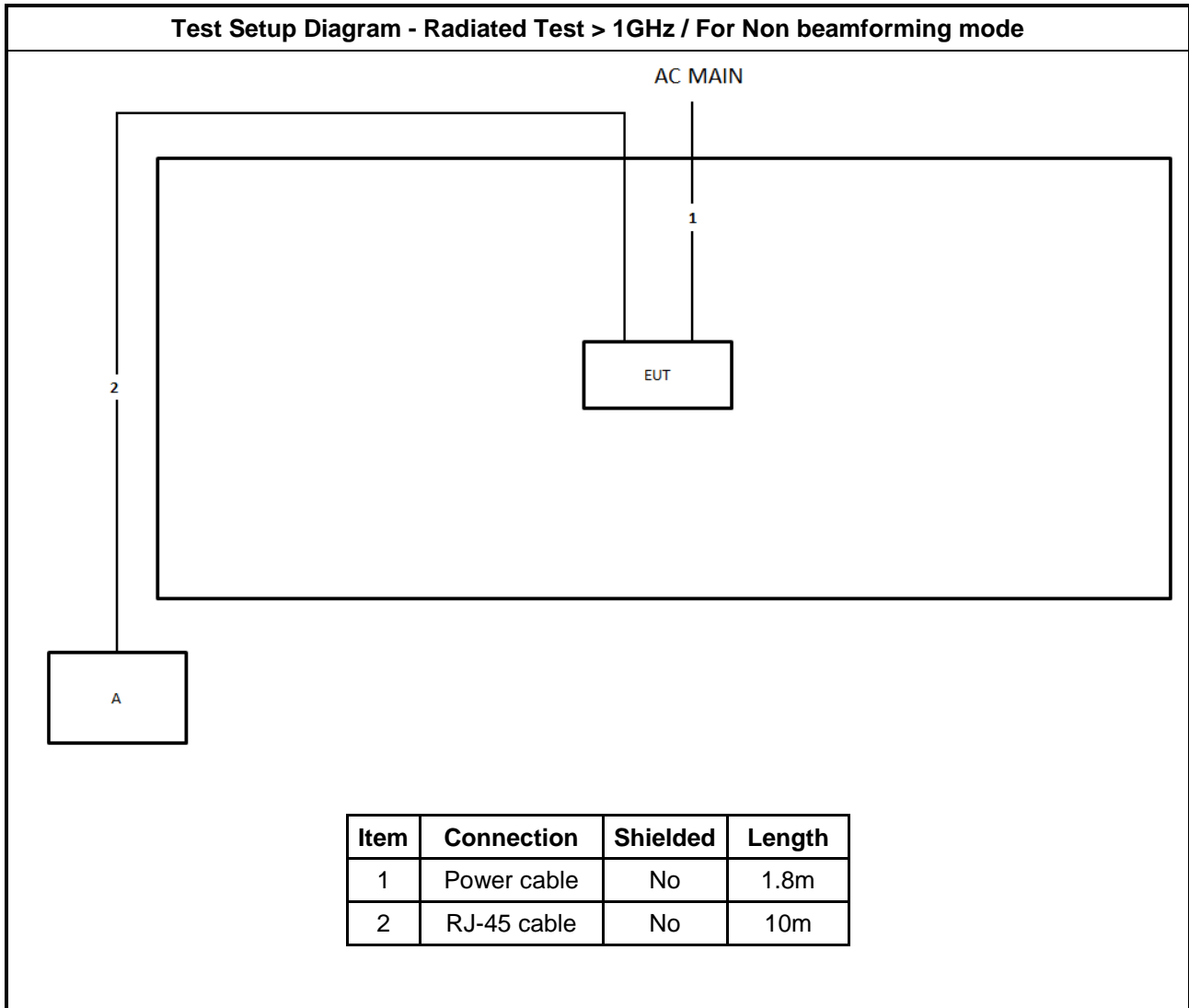




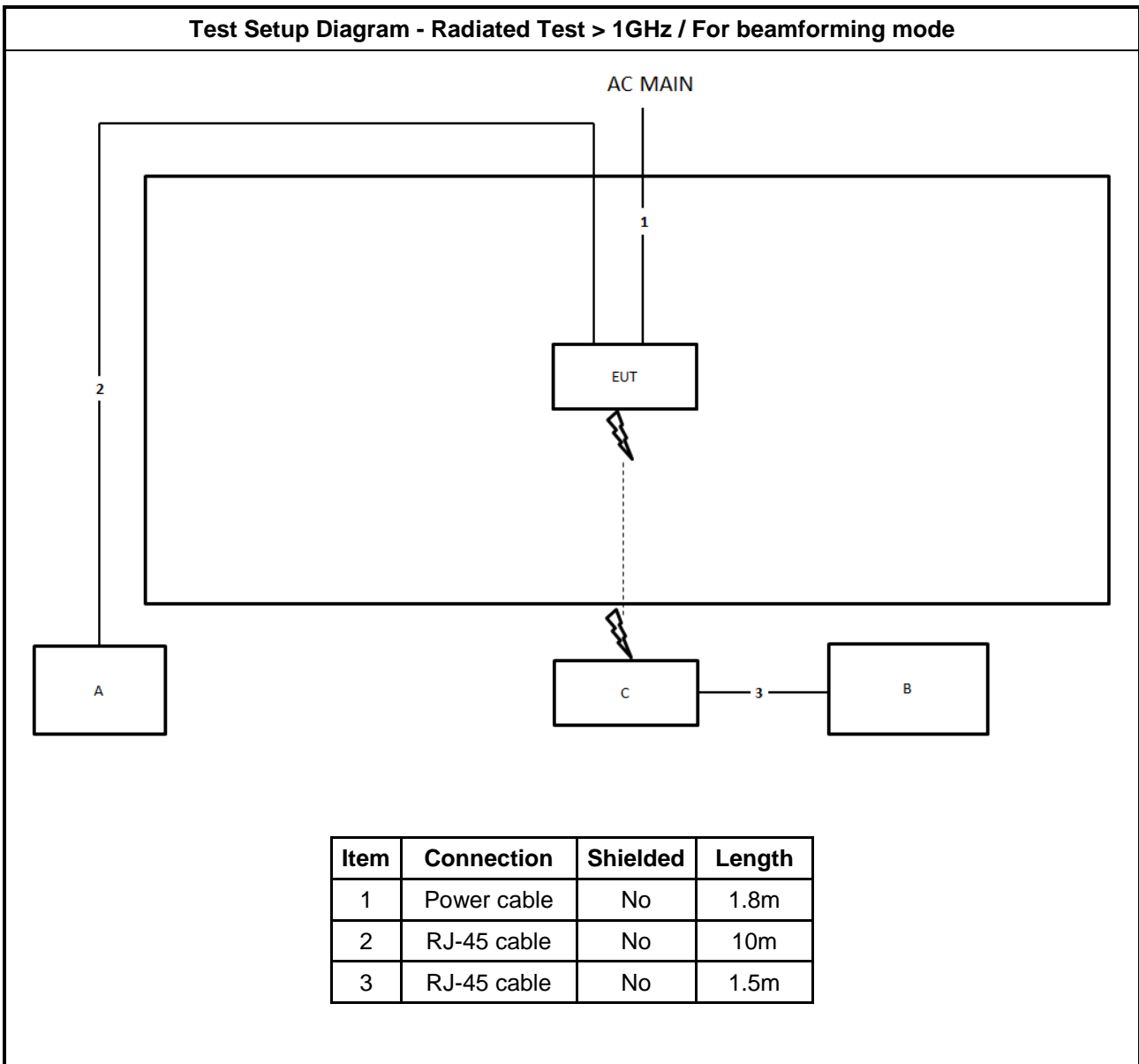
**Test Setup Diagram - Radiated Test < 1GHz**



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



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



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



### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

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

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

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

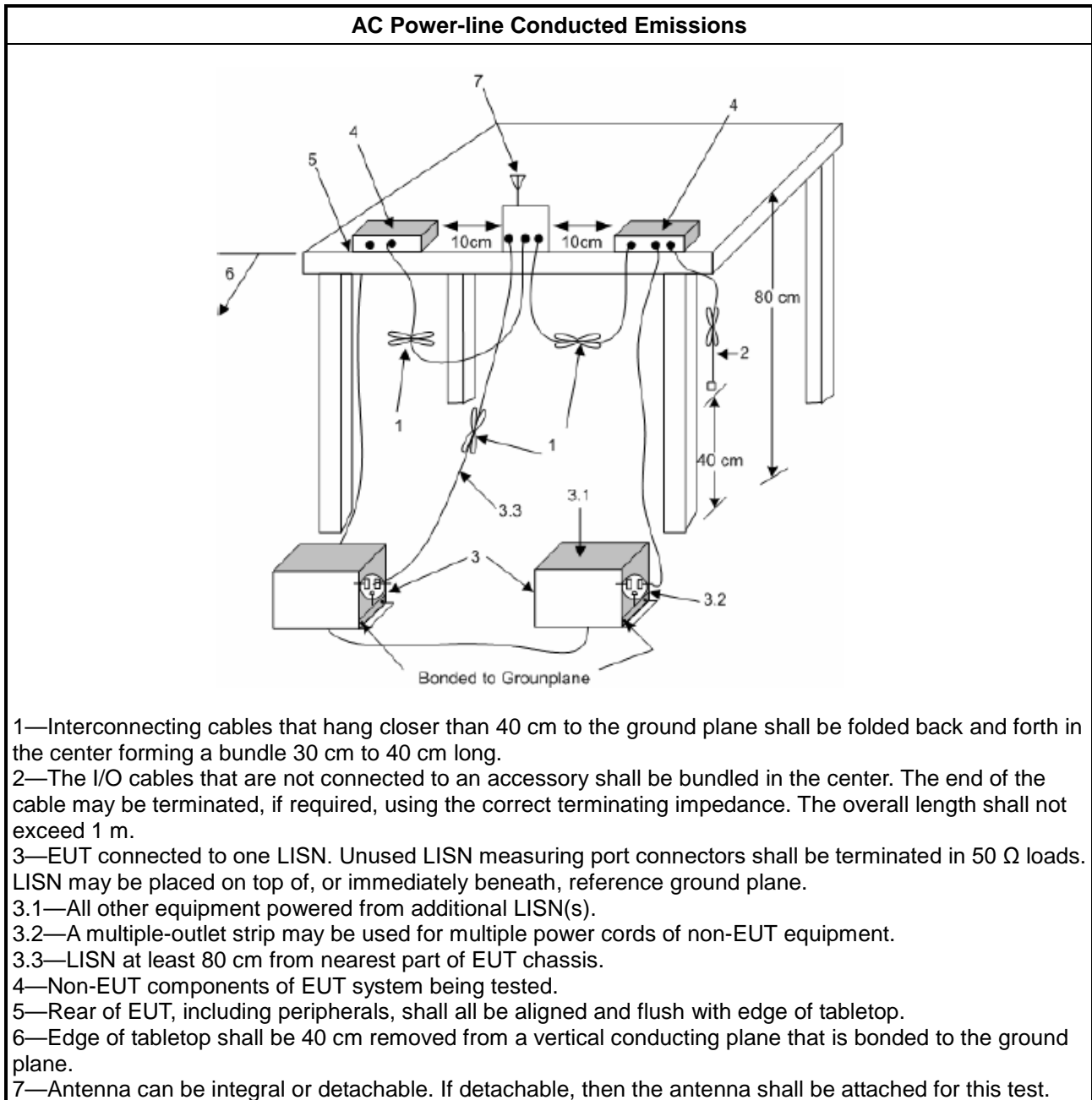
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

Test Method
<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>

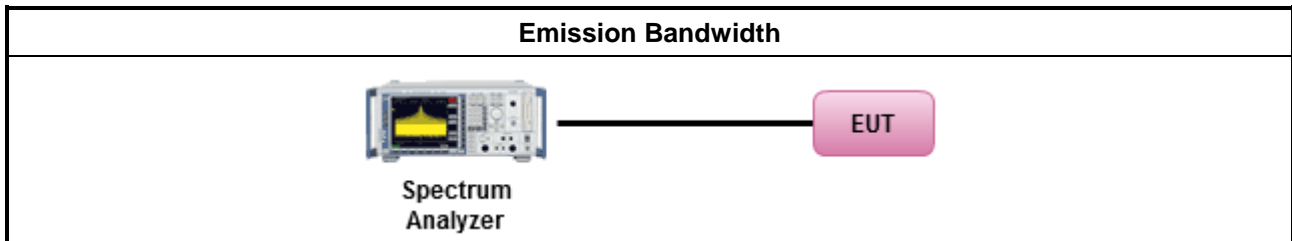
#### 3.2.2 Measuring Instruments

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.

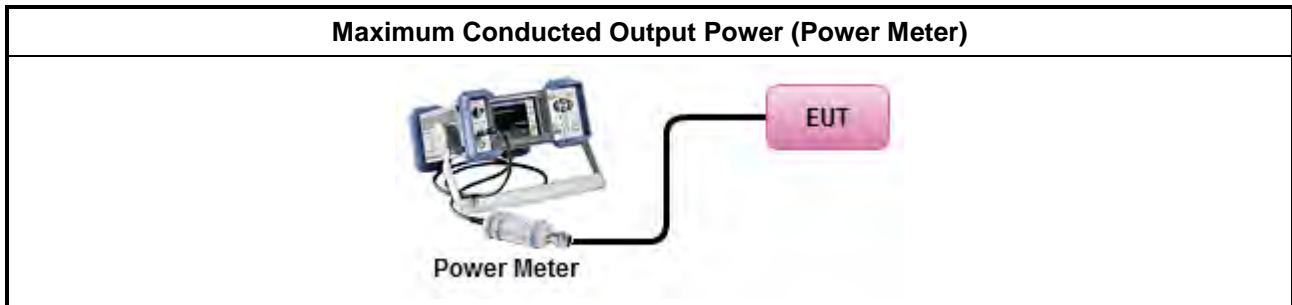


**3.3.3 Test Procedures**

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 display="block">P_{total} = P_1 + P_2 + \dots + P_n</math>                     (calculated in linear unit [mW] and transfer to log unit [dBm])  <math display="block">EIRP_{total} = P_{total} + DG</math> </li> </ul>	



### 3.3.4 Test Setup



### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



### 3.4 Power Spectral Density

#### 3.4.1 Power Spectral Density Limit

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

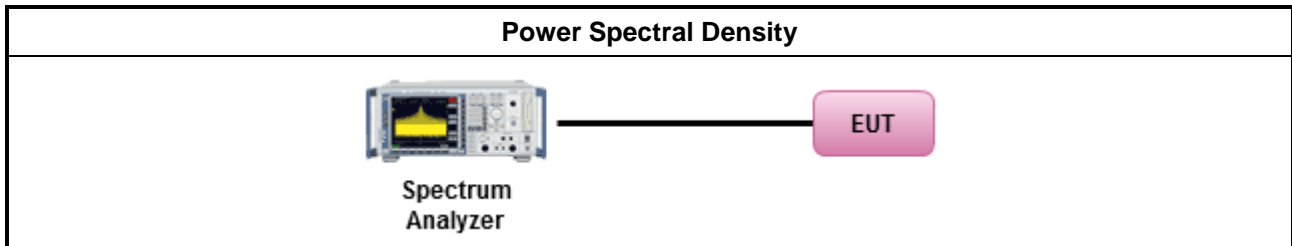
#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

Test Method						
<ul style="list-style-type: none"> <li>▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).</li> </ul>						
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.						
<ul style="list-style-type: none"> <li>▪ For conducted measurement.             <ul style="list-style-type: none"> <li>▪ If The EUT supports multiple transmit chains using options given below:                 <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 20px; text-align: center;"><input checked="" type="checkbox"/></td> <td>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 style="text-align: center;"><input type="checkbox"/></td> <td>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 style="text-align: center;"><input type="checkbox"/></td> <td>Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.</td> </tr> </tbody> </table> </li> </ul> </li> </ul>	<input checked="" type="checkbox"/>	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	<input type="checkbox"/>	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	<input type="checkbox"/>	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<input checked="" type="checkbox"/>	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.					
<input type="checkbox"/>	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,					
<input type="checkbox"/>	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.					

### 3.4.4 Test Setup



### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

### 3.5 Emissions in Non-restricted Frequency Bands

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

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

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

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

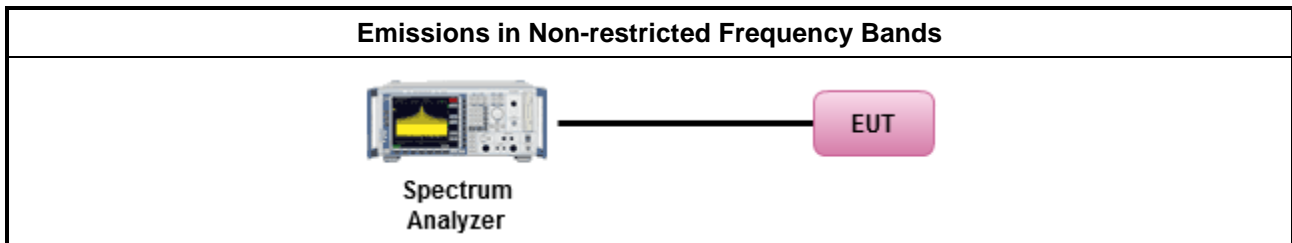
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

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

#### 3.5.4 Test Setup



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

Refer as Appendix E



### 3.6 Emissions in Restricted Frequency Bands

#### 3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

#### 3.6.2 Measuring Instruments

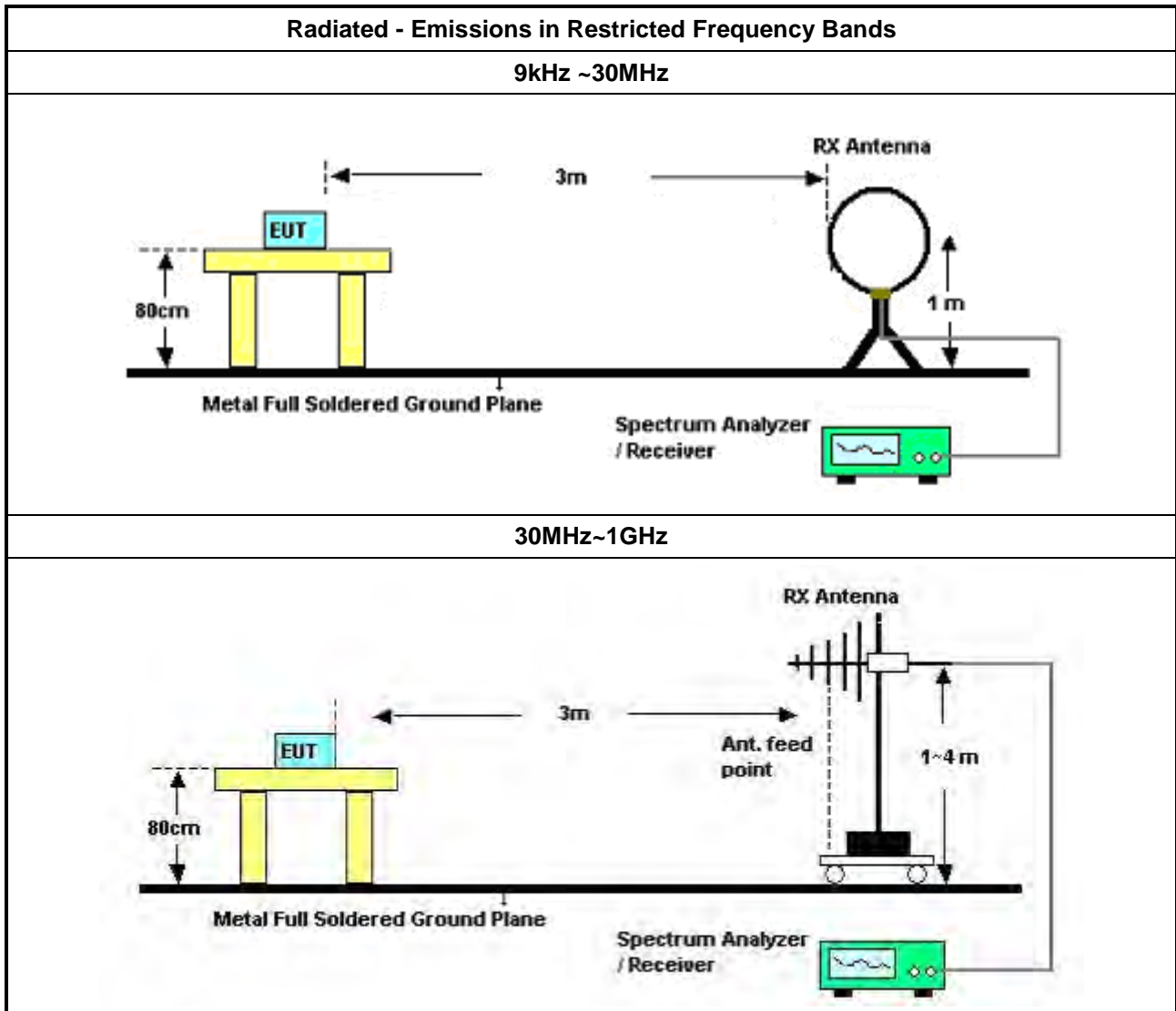
Refer a test equipment and calibration data table in this test report.

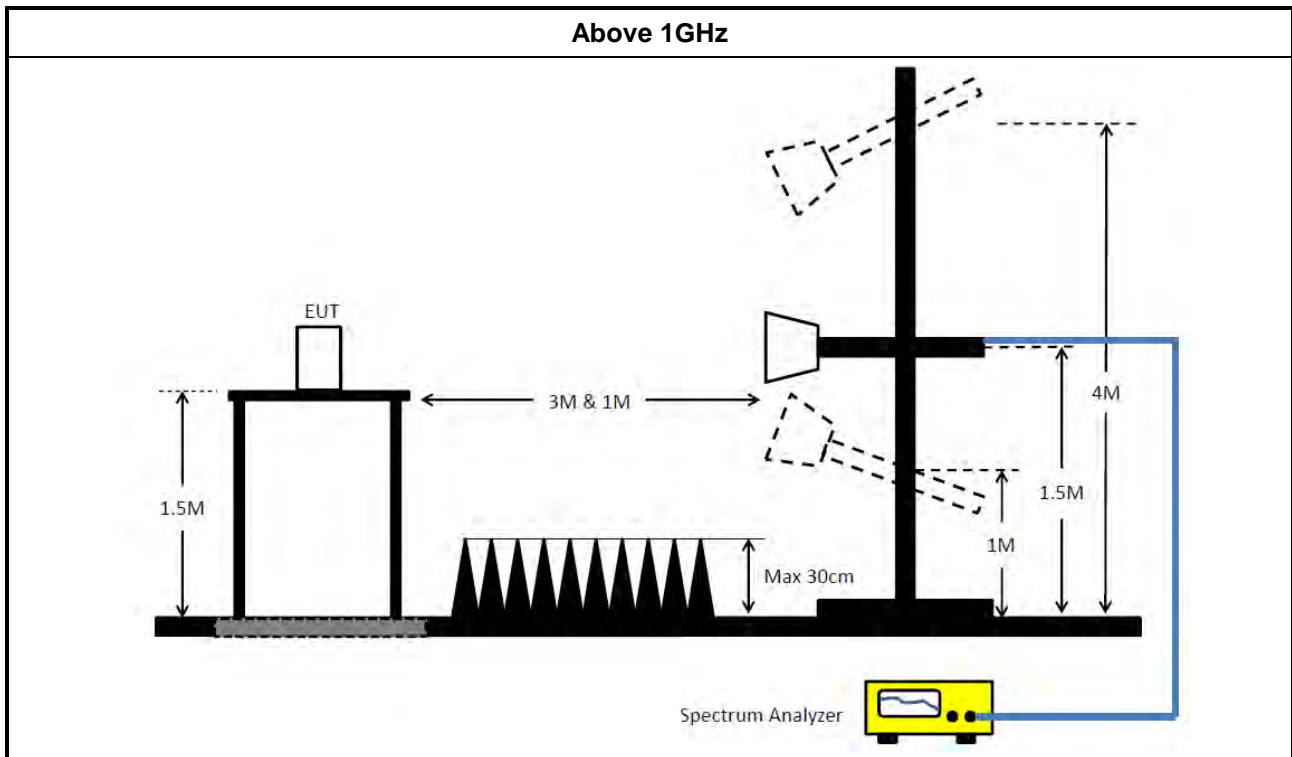


**3.6.3 Test Procedures**

<b>Test Method</b>	
<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>	
<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.</li> </ul>
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq$ 98%).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq$ 1/T).
<input type="checkbox"/>	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> <li>▪ For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074 clause 8.7 &amp; C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.</li> </ul>

**3.6.4 Test Setup**





### 3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

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

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

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

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

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

Refer as Appendix F





## 4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-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	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH03-CB)
Horn Antenna	ETS · Lindgren	3115	6821	750MHz~18GHz	Jan. 21, 2022	Jan. 20, 2023	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 21, 2022	Jun. 20, 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. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 01, 2021	Sep. 30, 2022	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	SGH5265	20211115-1	1GHz ~ 26.5GHz	Jan. 19, 2022	Jan. 18, 2023	Radiation (03CH06-CB)
Pre-Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 21, 2022	Jun. 20, 2023	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 24, 2021	Dec. 23, 2022	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-67	1GHz~18GHz	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+67	1GHz~18GHz	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2022	May 26, 2023	Conducted (TH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

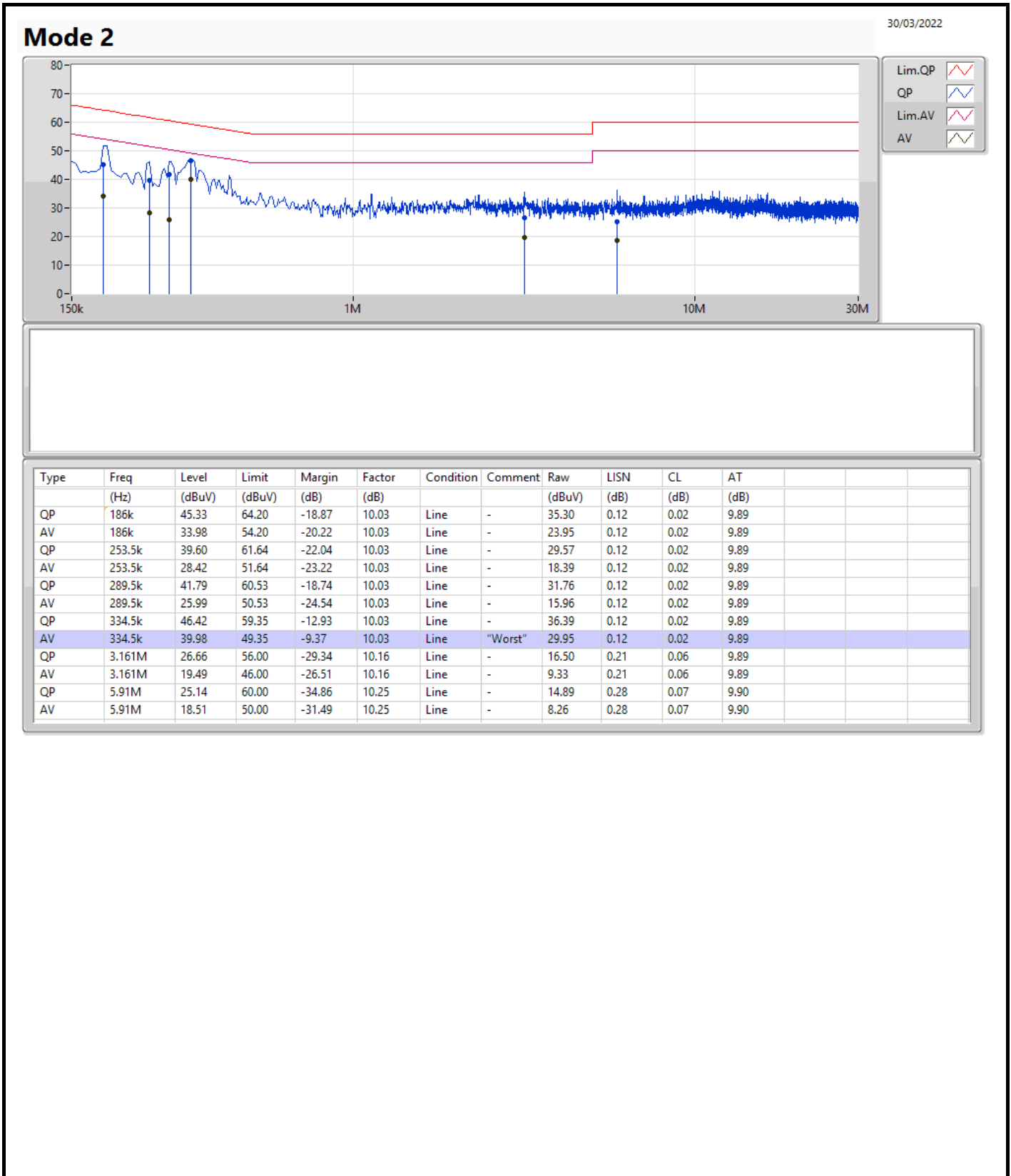
Note: Calibration Interval of instruments listed above is one year.

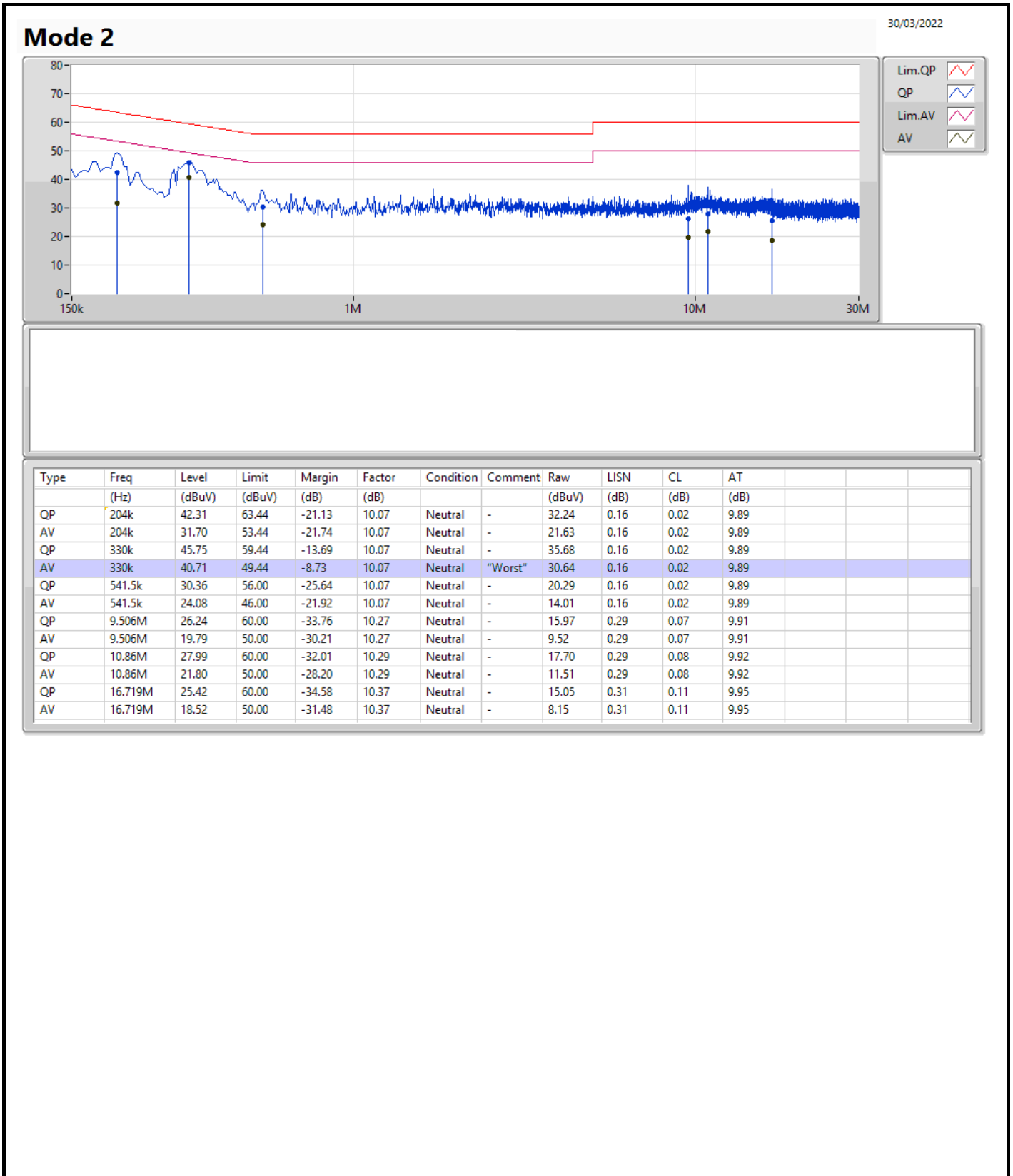
N.C.R. means Non-Calibration required.



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	330k	40.71	49.44	-8.73	Neutral







**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)_3TX	7.05M	10.32M	10M3G1D	6.075M	10.22M
802.11g_Nss1,(6Mbps)_3TX	16.35M	16.867M	16M9D1D	16.325M	16.742M

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

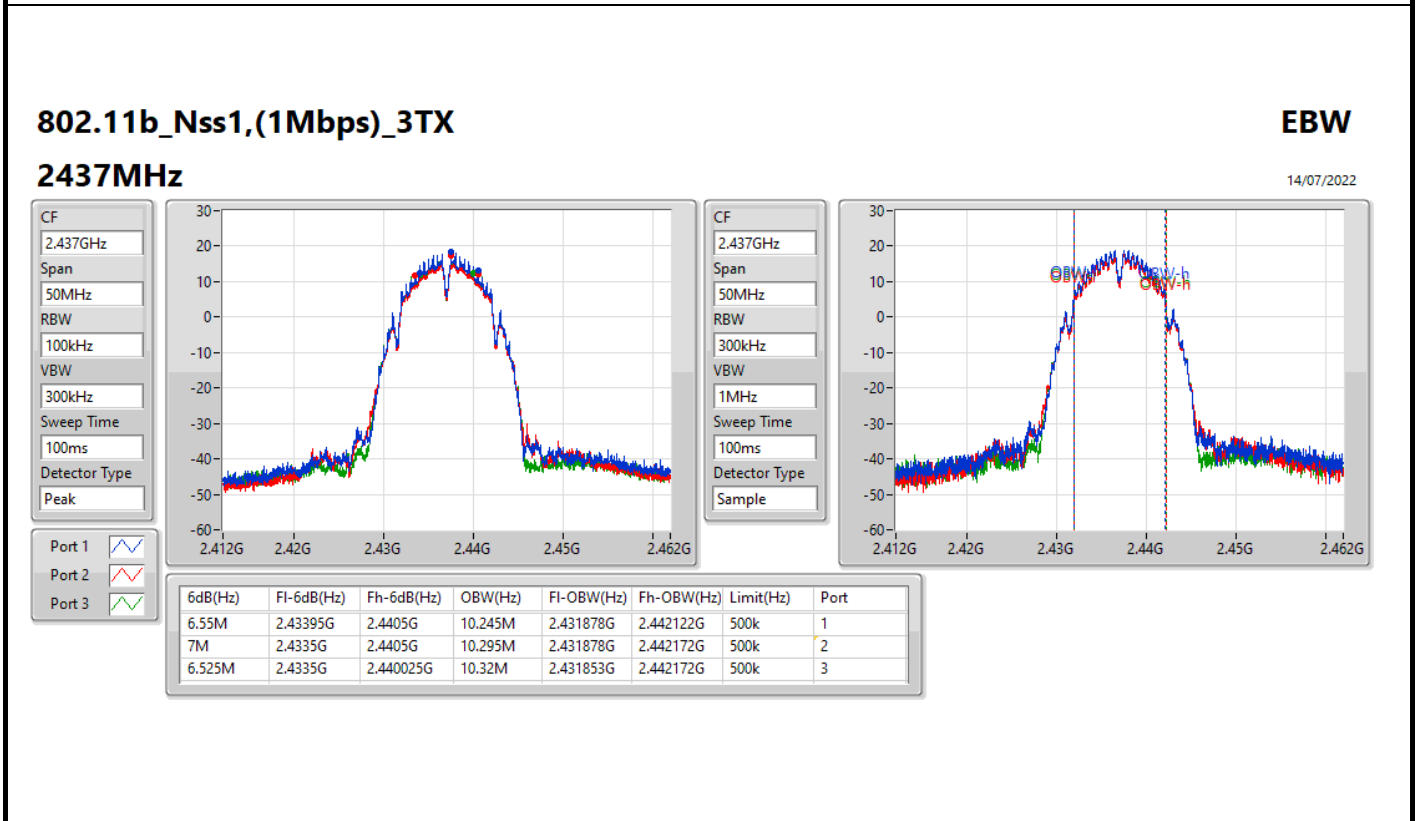
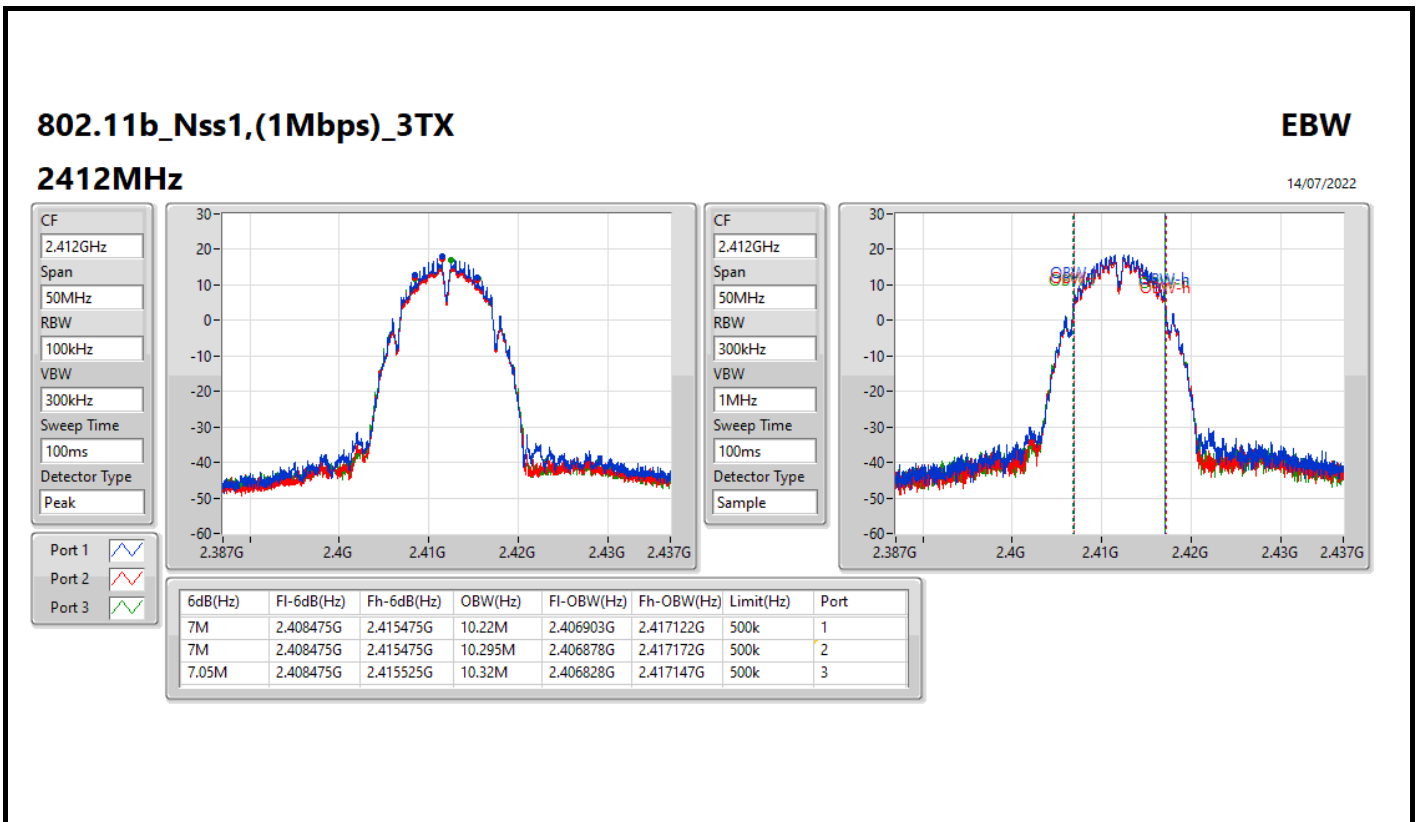


Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	7M	10.22M	7M	10.295M	7.05M	10.32M
2437MHz	Pass	500k	6.55M	10.245M	7M	10.295M	6.525M	10.32M
2462MHz	Pass	500k	7.05M	10.27M	6.525M	10.27M	6.075M	10.32M
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.767M	16.325M	16.792M	16.325M	16.742M
2437MHz	Pass	500k	16.325M	16.817M	16.325M	16.817M	16.325M	16.867M
2462MHz	Pass	500k	16.35M	16.817M	16.325M	16.792M	16.325M	16.817M

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





### 802.11b\_Nss1,(1Mbps)\_3TX

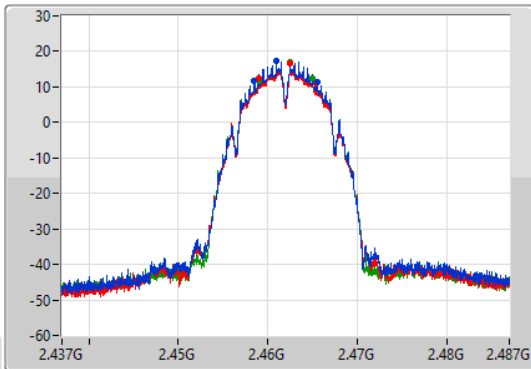
EBW

2462MHz

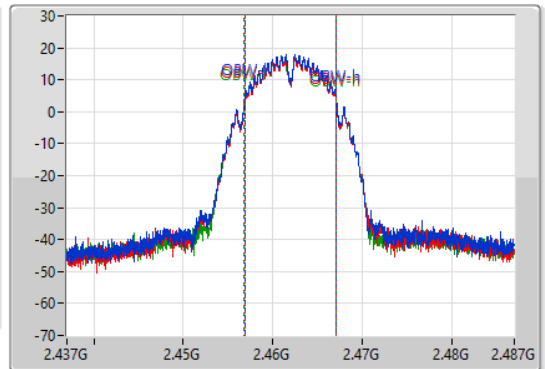
14/07/2022

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

Port 1: [Blue line]  
 Port 2: [Red line]  
 Port 3: [Green line]



CF: 2.462GHz  
 Span: 50MHz  
 RBW: 300kHz  
 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
7.05M	2.458475G	2.465525G	10.27M	2.456878G	2.467147G	500k	1
6.525M	2.45895G	2.465475G	10.27M	2.456878G	2.467147G	500k	2
6.075M	2.45895G	2.465025G	10.32M	2.456828G	2.467147G	500k	3

### 802.11g\_Nss1,(6Mbps)\_3TX

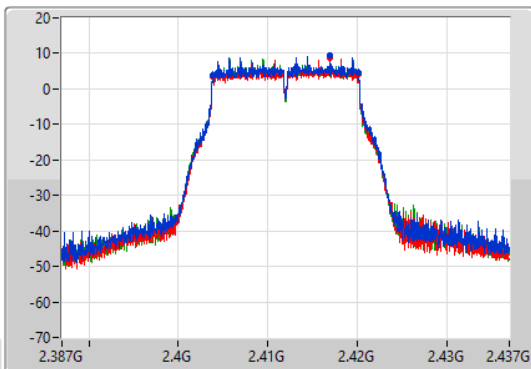
EBW

2412MHz

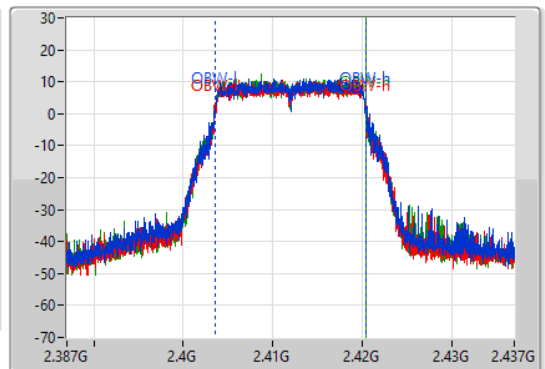
14/07/2022

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

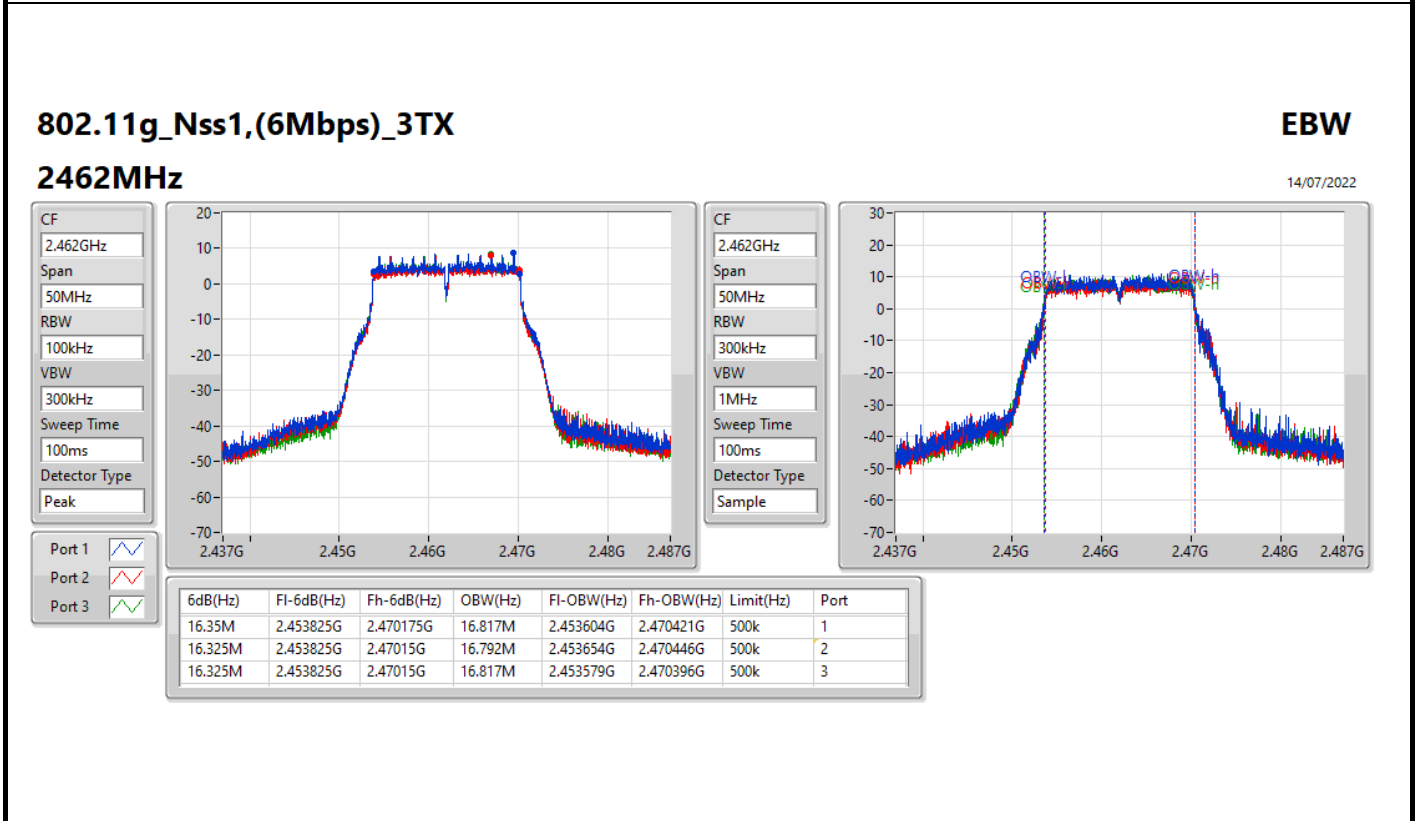
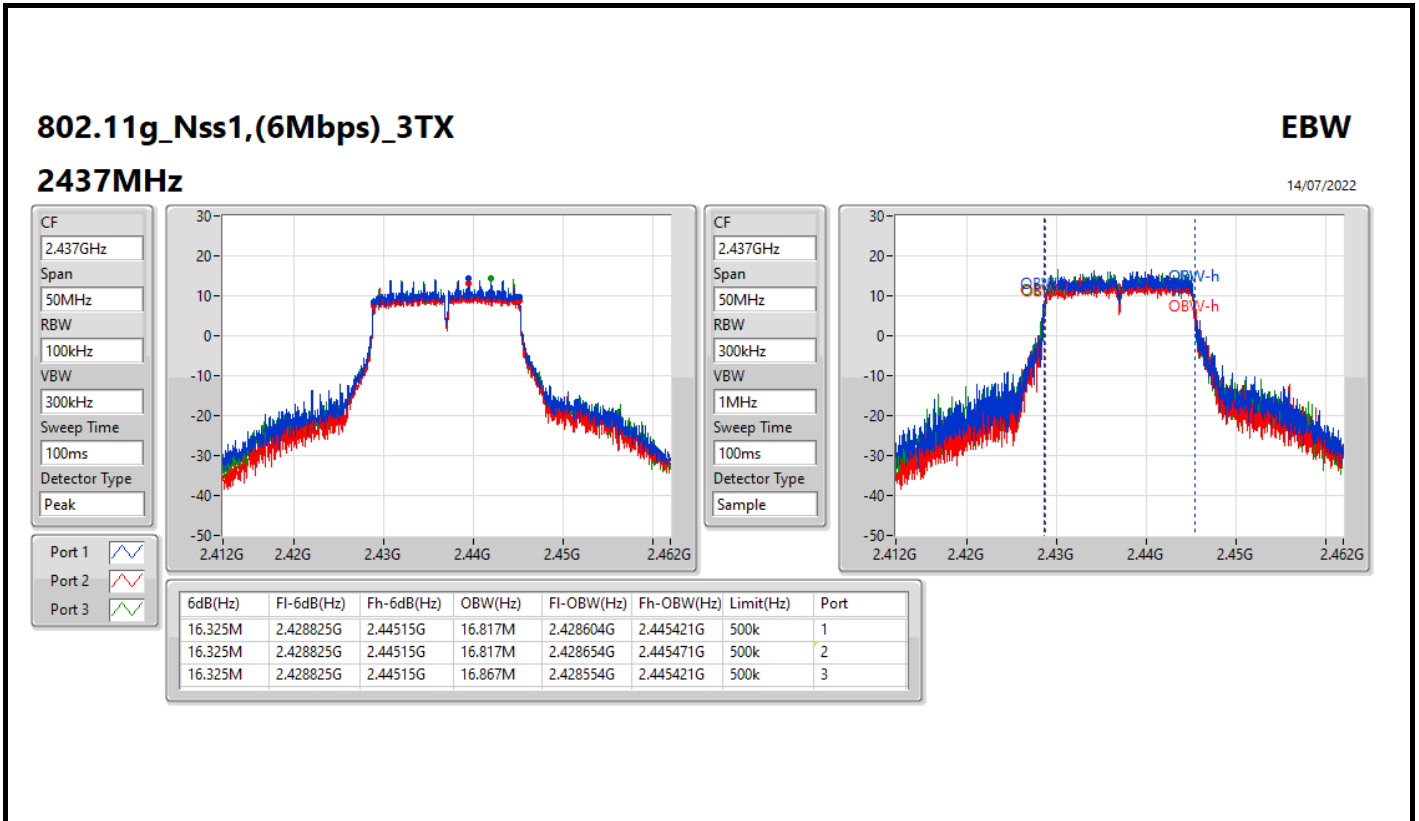
Port 1: [Blue line]  
 Port 2: [Red line]  
 Port 3: [Green line]



CF: 2.412GHz  
 Span: 50MHz  
 RBW: 300kHz  
 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
16.325M	2.403825G	2.42015G	16.767M	2.403629G	2.420396G	500k	1
16.325M	2.403825G	2.42015G	16.792M	2.403604G	2.420396G	500k	2
16.325M	2.403825G	2.42015G	16.742M	2.403629G	2.420371G	500k	3





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)_3TX	18.975M	19.065M	19M1D1D	18.9M	18.966M
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	37.5M	37.752M	37M8D1D	36.6M	37.64M

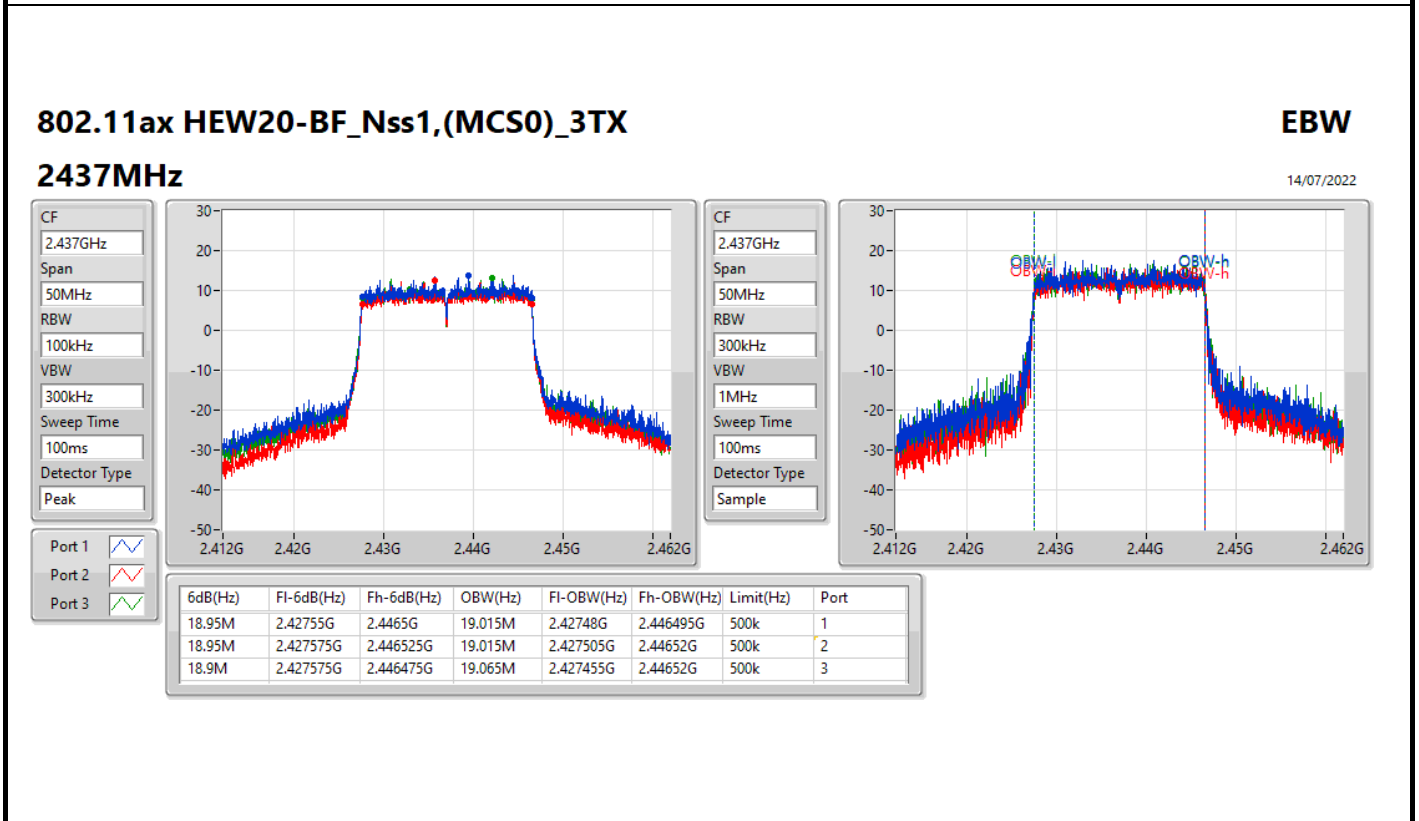
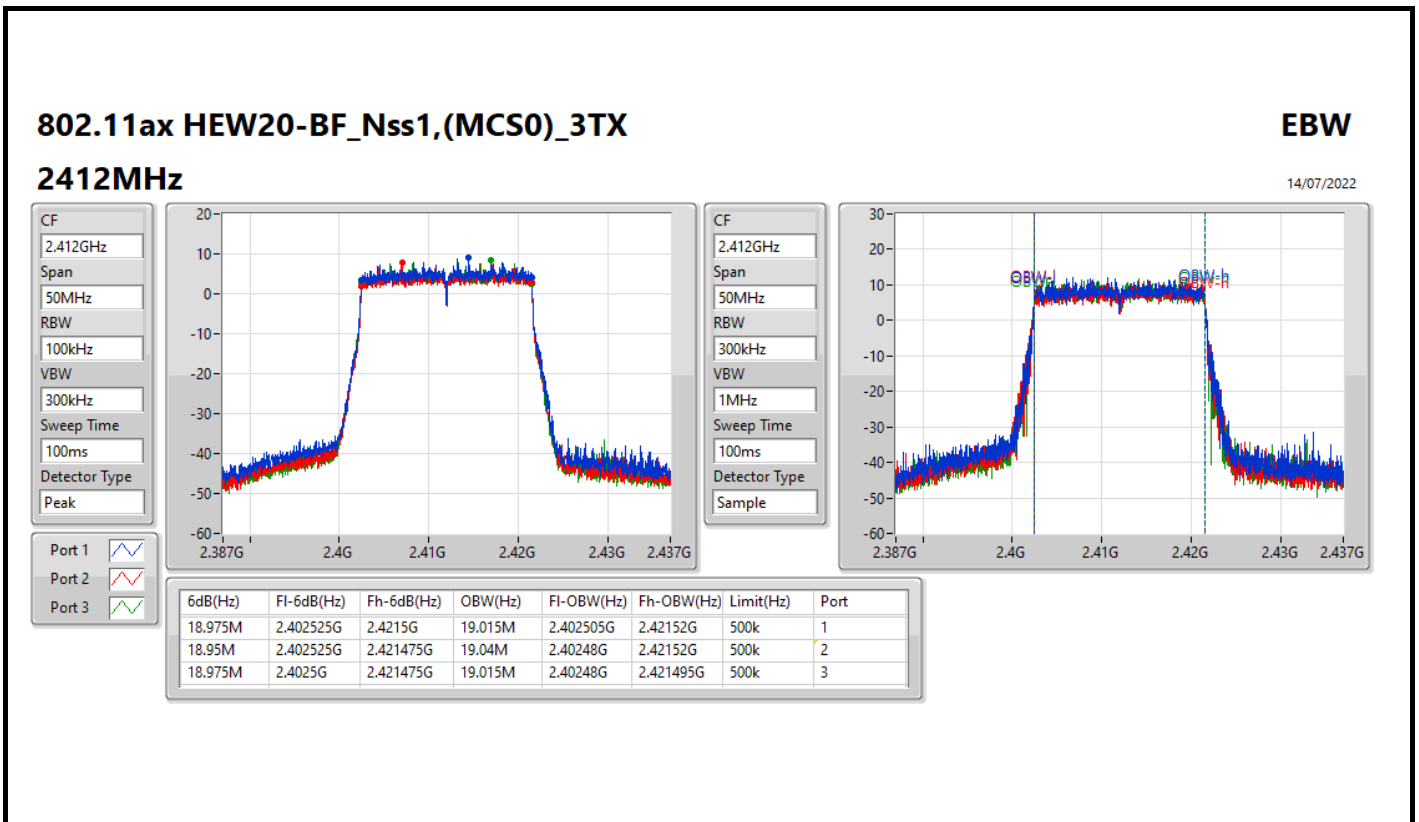
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.975M	19.015M	18.95M	19.04M	18.975M	19.015M
2437MHz	Pass	500k	18.95M	19.015M	18.95M	19.015M	18.9M	19.065M
2462MHz	Pass	500k	18.975M	18.966M	18.925M	18.991M	18.95M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.25M	37.752M	37M	37.735M	37.45M	37.725M
2437MHz	Pass	500k	37.5M	37.65M	36.6M	37.658M	37.1M	37.725M
2452MHz	Pass	500k	36.9M	37.711M	36.6M	37.64M	37.1M	37.737M

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



802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

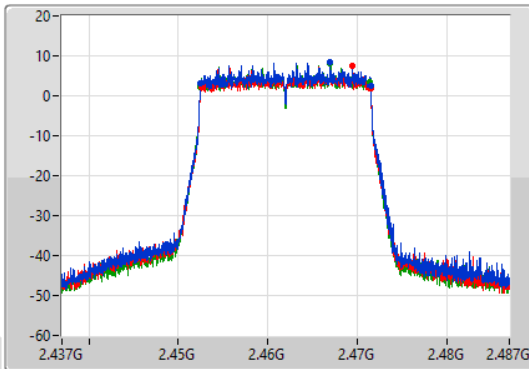
EBW

2462MHz

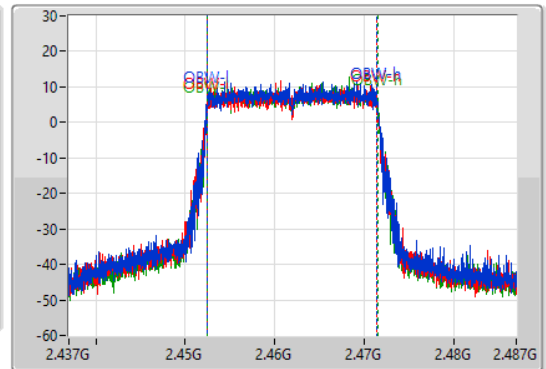
14/07/2022

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

Port 1: [Blue Waveform]  
 Port 2: [Red Waveform]  
 Port 3: [Green Waveform]



CF: 2.462GHz  
 Span: 50MHz  
 RBW: 300kHz  
 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
18.975M	2.452525G	2.4715G	18.966M	2.452505G	2.47147G	500k	1
18.925M	2.452575G	2.4715G	18.991M	2.45248G	2.47147G	500k	2
18.95M	2.4525G	2.47145G	19.04M	2.452455G	2.471495G	500k	3

802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

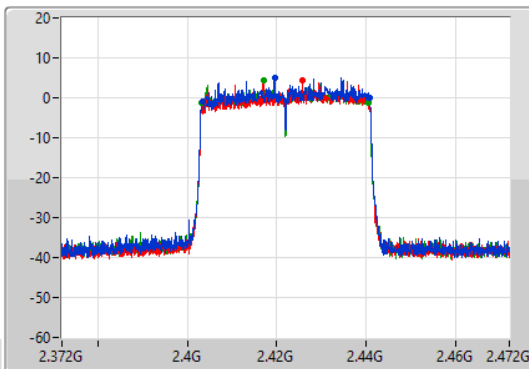
EBW

2422MHz

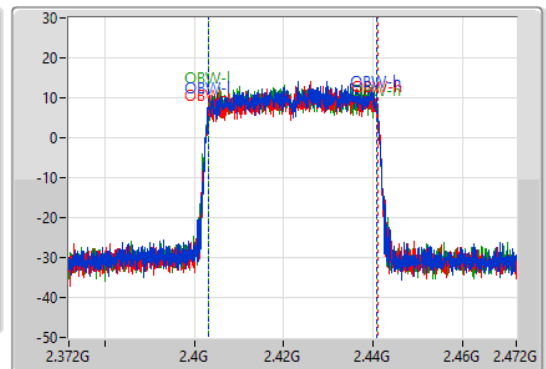
20/07/2022

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

Port 1: [Blue Waveform]  
 Port 2: [Red Waveform]  
 Port 3: [Green Waveform]



CF: 2.422GHz  
 Span: 100MHz  
 RBW: 1MHz  
 VBW: 3MHz  
 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
37.25M	2.4035G	2.44075G	37.752M	2.40316G	2.440911G	500k	1
37M	2.4037G	2.4407G	37.735M	2.403222G	2.440957G	500k	2
37.45M	2.4032G	2.44065G	37.725M	2.403162G	2.440887G	500k	3

802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

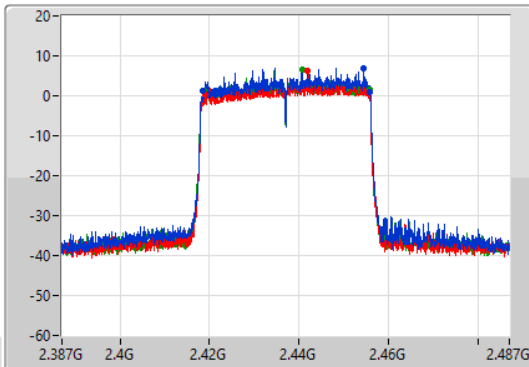
EBW

2437MHz

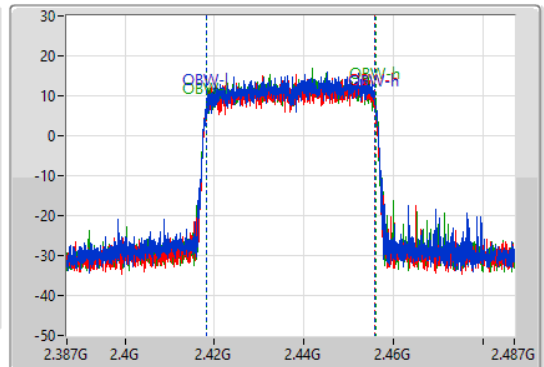
20/07/2022

CF  
2.437GHz  
Span  
100MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak

Port 1  
Port 2  
Port 3



CF  
2.437GHz  
Span  
100MHz  
RBW  
1MHz  
VBW  
3MHz  
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
37.5M	2.4184G	2.4559G	37.65M	2.418277G	2.455927G	500k	1
36.6M	2.41895G	2.45555G	37.658M	2.418213G	2.455871G	500k	2
37.1M	2.41865G	2.45575G	37.725M	2.418245G	2.45597G	500k	3

802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

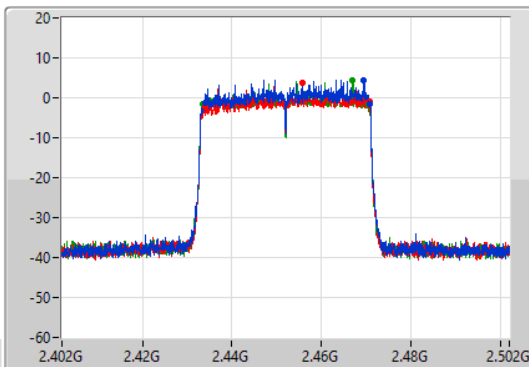
EBW

2452MHz

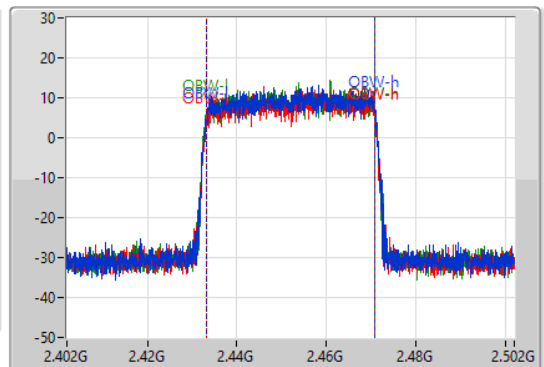
20/07/2022

CF  
2.452GHz  
Span  
100MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak

Port 1  
Port 2  
Port 3



CF  
2.452GHz  
Span  
100MHz  
RBW  
1MHz  
VBW  
3MHz  
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
36.9M	2.43395G	2.47085G	37.711M	2.433189G	2.4709G	500k	1
36.6M	2.43415G	2.47075G	37.64M	2.433267G	2.470907G	500k	2
37.1M	2.43345G	2.47055G	37.737M	2.43313G	2.470867G	500k	3





**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_3TX	19M	19.023M	19M0D1D	18.9M	18.975M
802.11ax HEW40_Nss2,(MCS0)_3TX	37.6M	37.813M	37M8D1D	36.45M	37.625M

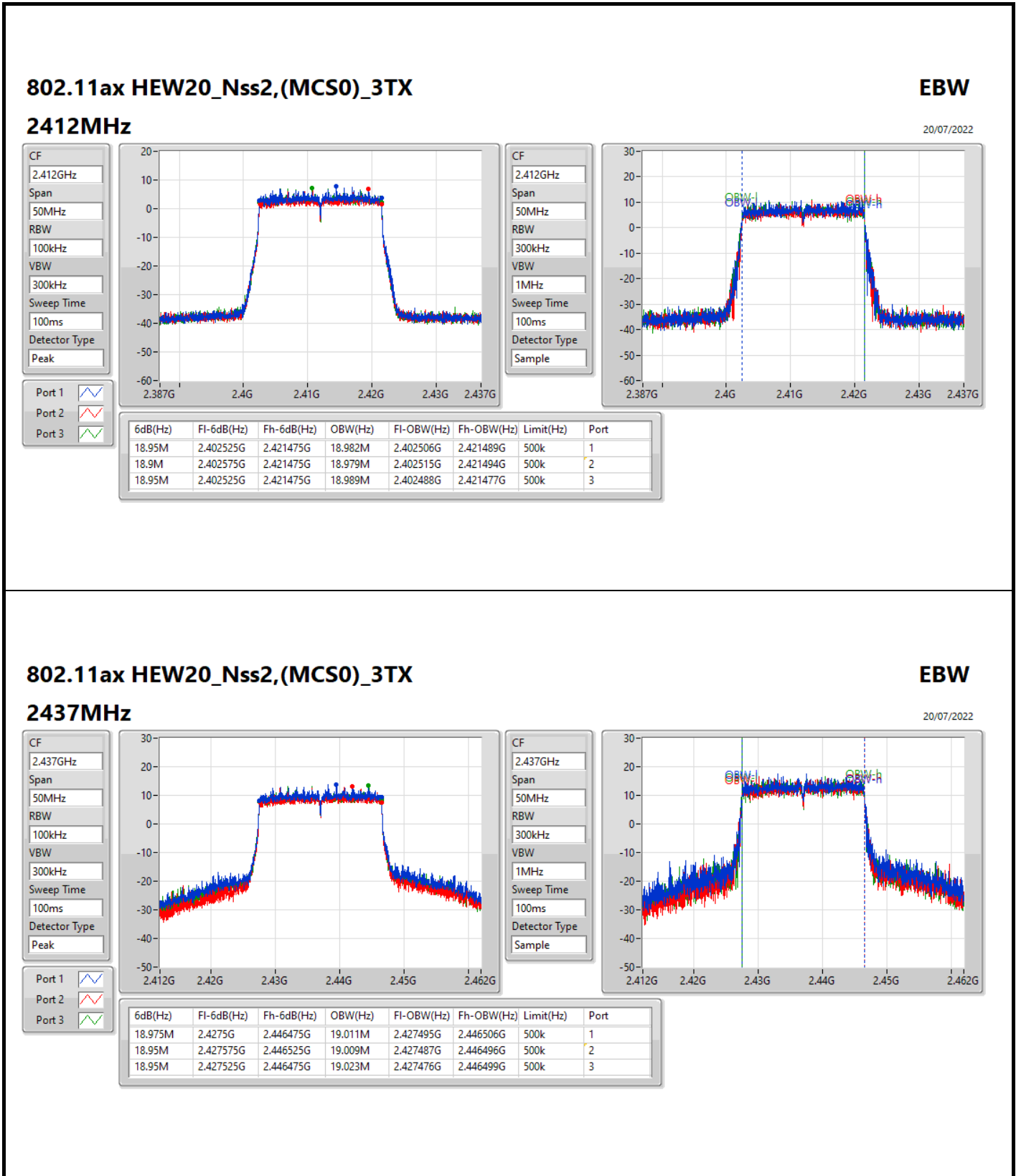
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.95M	18.982M	18.9M	18.979M	18.95M	18.989M
2437MHz	Pass	500k	18.975M	19.011M	18.95M	19.009M	18.95M	19.023M
2462MHz	Pass	500k	19M	18.99M	18.95M	18.981M	18.9M	18.975M
802.11ax HEW40_Nss2,(MCS0)_3TX	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.6M	37.725M	36.8M	37.748M	37.3M	37.733M
2437MHz	Pass	500k	37.45M	37.697M	36.75M	37.625M	36.8M	37.813M
2452MHz	Pass	500k	37.55M	37.652M	36.45M	37.661M	37.55M	37.786M

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



802.11ax HEW20\_Nss2,(MCS0)\_3TX

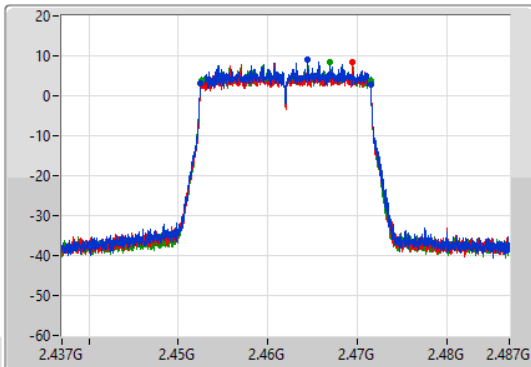
EBW

2462MHz

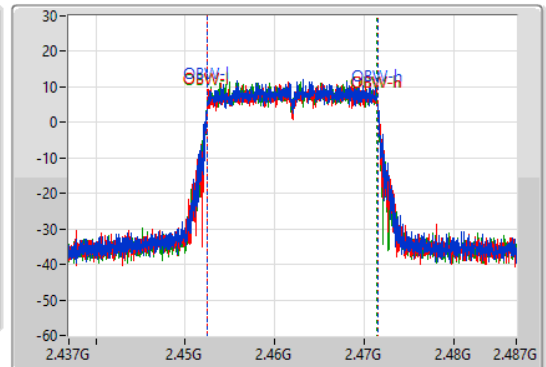
20/07/2022

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

Port 1  
Port 2  
Port 3



CF  
2.462GHz  
Span  
50MHz  
RBW  
300kHz  
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
19M	2.4525G	2.4715G	18.99M	2.452488G	2.471478G	500k	1
18.95M	2.45255G	2.4715G	18.981M	2.452511G	2.471492G	500k	2
18.9M	2.452575G	2.471475G	18.975M	2.452489G	2.471464G	500k	3

802.11ax HEW40\_Nss2,(MCS0)\_3TX

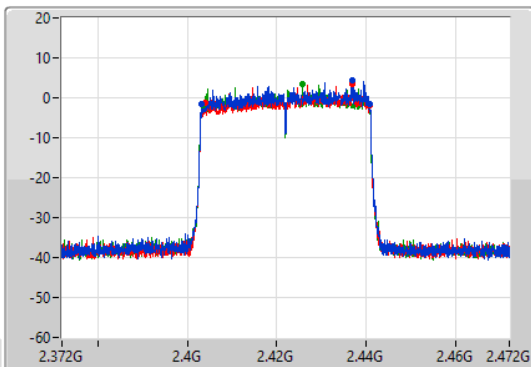
EBW

2422MHz

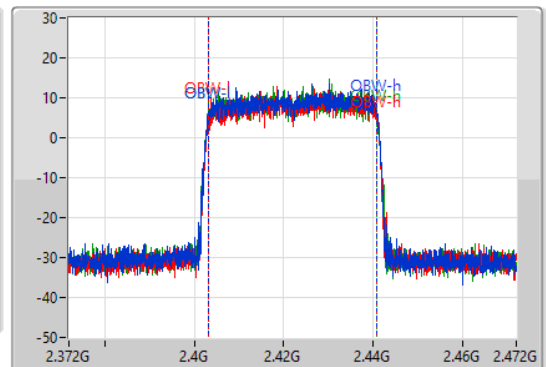
20/07/2022

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

Port 1  
Port 2  
Port 3



CF  
2.422GHz  
Span  
100MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
100ms  
Detector Type  
Sample



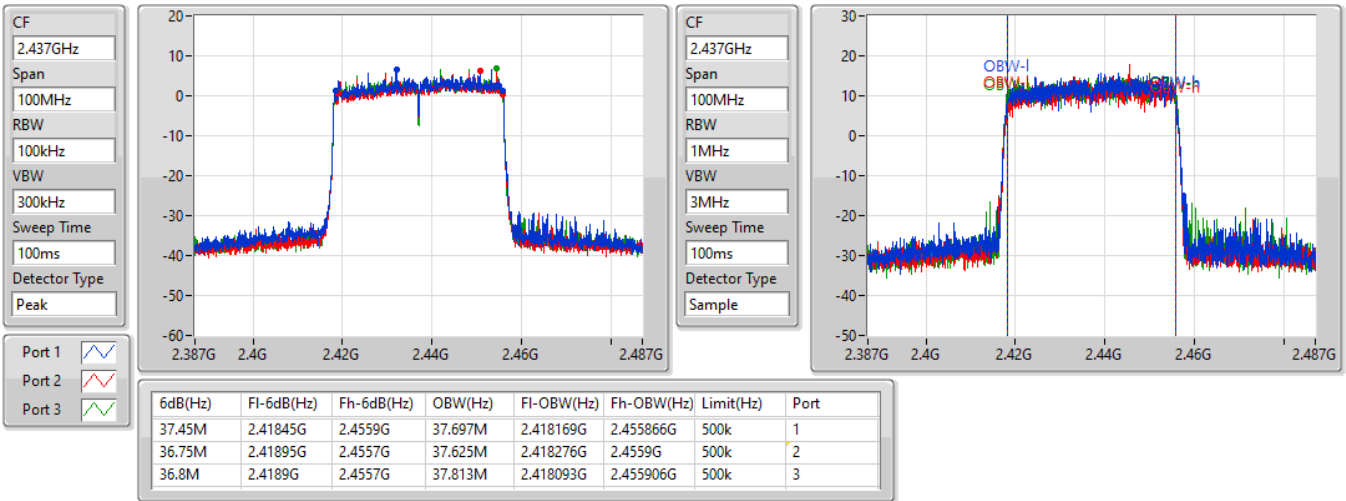
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.6M	2.4032G	2.4408G	37.725M	2.403171G	2.440895G	500k	1
36.8M	2.40395G	2.44075G	37.748M	2.403172G	2.44092G	500k	2
37.3M	2.4034G	2.4407G	37.733M	2.403108G	2.440841G	500k	3

802.11ax HEW40\_Nss2,(MCS0)\_3TX

EBW

2437MHz

20/07/2022

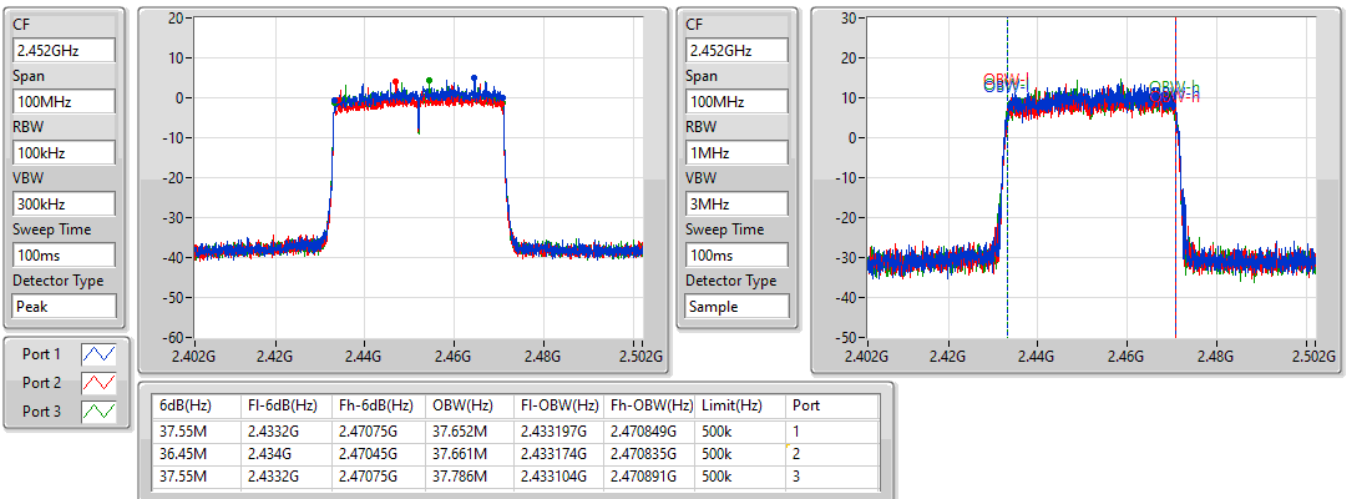


802.11ax HEW40\_Nss2,(MCS0)\_3TX

EBW

2452MHz

20/07/2022





**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_3TX	29.97	0.99312
802.11g_Nss1,(6Mbps)_3TX	29.87	0.97051



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	1.66	25.41	24.66	25.08	29.83	30.00
2437MHz	Pass	1.66	25.64	24.68	25.21	29.97	30.00
2462MHz	Pass	1.66	24.86	23.95	24.42	29.20	30.00
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	1.66	20.64	19.94	20.47	25.13	30.00
2417MHz	Pass	1.66	21.72	20.97	21.28	26.11	30.00
2437MHz	Pass	1.66	25.48	24.62	25.16	29.87	30.00
2457MHz	Pass	1.66	20.81	20.09	20.56	25.27	30.00
2462MHz	Pass	1.66	20.11	19.33	19.86	24.55	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)_3TX	29.54	0.89950
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	25.53	0.35727





Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	6.43	20.59	19.95	20.12	25.00	29.57
2417MHz	Pass	6.43	20.89	20.09	20.46	25.26	29.57
2437MHz	Pass	6.43	24.98	24.43	24.89	29.54	29.57
2457MHz	Pass	6.43	21.76	21.25	21.67	26.34	29.57
2462MHz	Pass	6.43	19.75	19.31	19.52	24.30	29.57
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	6.43	19.29	18.59	18.91	23.71	29.57
2437MHz	Pass	6.43	21.11	20.42	20.73	25.53	29.57
2452MHz	Pass	6.43	18.68	17.83	18.33	23.07	29.57

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



**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_3TX	29.69	0.93111
802.11ax HEW40_Nss2,(MCS0)_3TX	25.65	0.36728



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20_Nss2,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	1.66	19.17	18.52	18.90	23.64	30.00
2417MHz	Pass	1.66	22.31	21.77	22.07	26.83	30.00
2437MHz	Pass	1.66	25.23	24.56	24.93	29.69	30.00
2457MHz	Pass	1.66	21.61	21.12	21.41	26.16	30.00
2462MHz	Pass	1.66	20.25	19.74	19.93	24.75	30.00
802.11ax HEW40_Nss2,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	1.66	18.27	17.69	18.06	22.78	30.00
2427MHz	Pass	1.66	19.41	18.63	19.16	23.85	30.00
2437MHz	Pass	1.66	21.29	20.47	20.85	25.65	30.00
2452MHz	Pass	1.66	19.13	18.31	18.89	23.56	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_3TX	6.50
802.11g_Nss1,(6Mbps)_3TX	3.89

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	6.43	3.07	1.24	2.94	6.31	7.57
2437MHz	Pass	6.43	3.66	2.79	3.72	6.50	7.57
2462MHz	Pass	6.43	2.73	2.44	2.40	6.08	7.57
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	6.43	-4.98	-5.04	-5.17	-1.06	7.57
2437MHz	Pass	6.43	-0.23	-0.36	-0.42	3.89	7.57
2462MHz	Pass	6.43	-5.51	-5.64	-5.77	-1.44	7.57

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

### 802.11b\_Nss1,(1Mbps)\_3TX

### PSD

#### 2412MHz

14/07/2022

CF  
2.412GHz

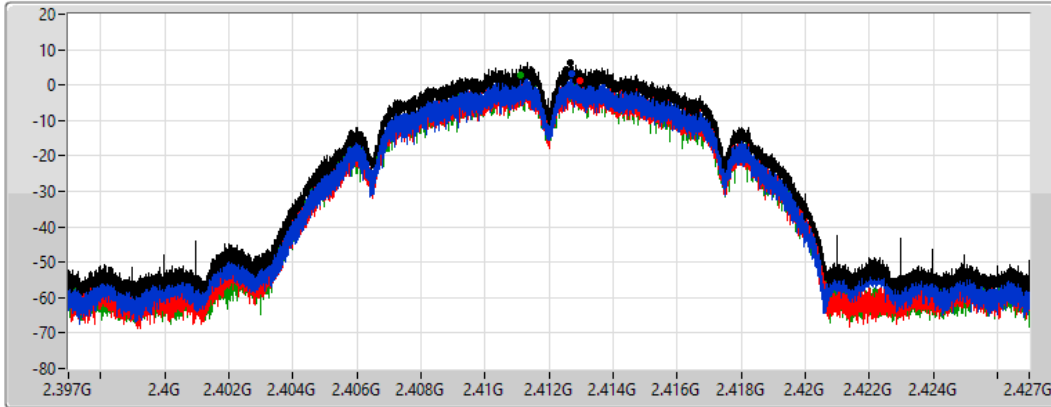
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
Peak



Sum 

Port 1 

Port 2 

Port 3 

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.31	6.31	3.07	1.24	2.94

### 802.11b\_Nss1,(1Mbps)\_3TX

### PSD

#### 2437MHz

14/07/2022

CF  
2.437GHz

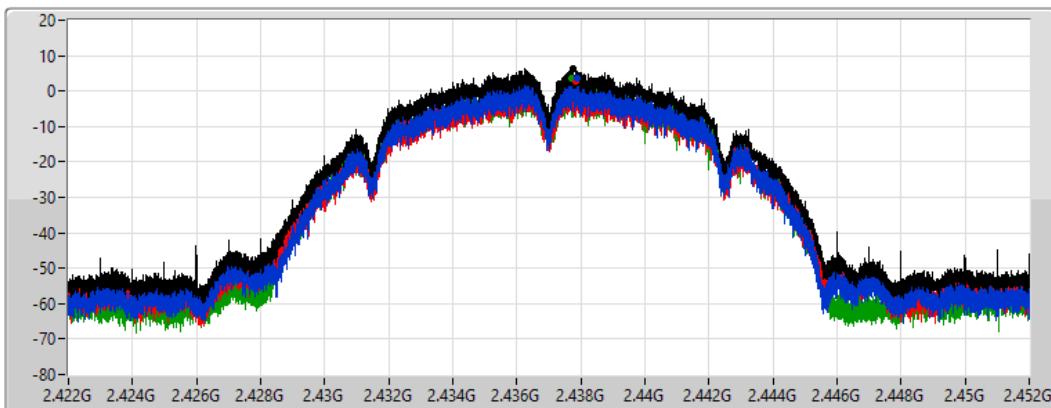
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
Peak



Sum 

Port 1 

Port 2 

Port 3 

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.50	6.50	3.66	2.79	3.72

### 802.11b\_Nss1,(1Mbps)\_3TX

### PSD

2462MHz

14/07/2022

CF  
2.462GHz

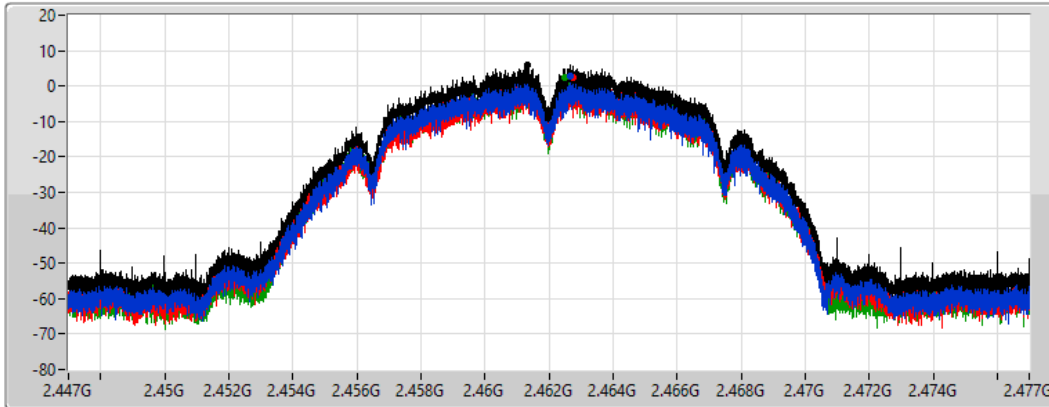
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
Peak



Sum 

Port 1 

Port 2 

Port 3 

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.08	6.08	2.73	2.44	2.40

### 802.11g\_Nss1,(6Mbps)\_3TX

### PSD

2412MHz

14/07/2022

CF  
2.412GHz

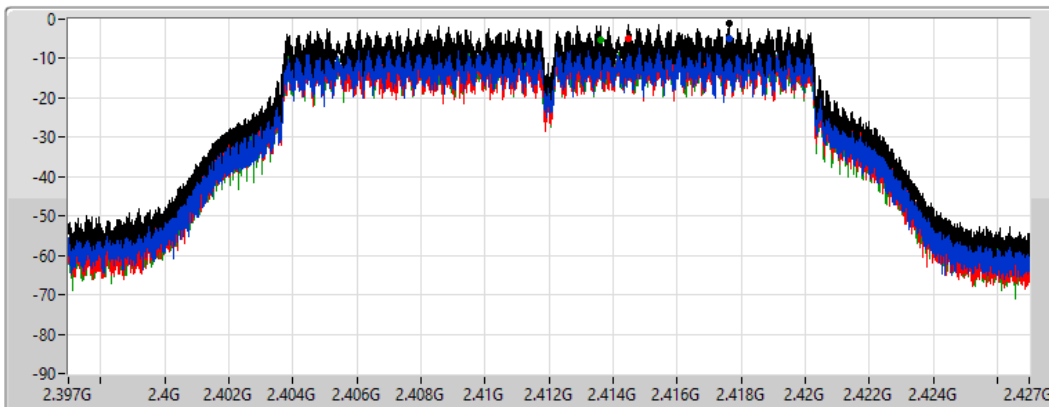
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
Peak



Sum 

Port 1 

Port 2 

Port 3 

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.06	-1.06	-4.98	-5.04	-5.17

### 802.11g\_Nss1,(6Mbps)\_3TX

### PSD

2437MHz

14/07/2022

CF  
2.437GHz

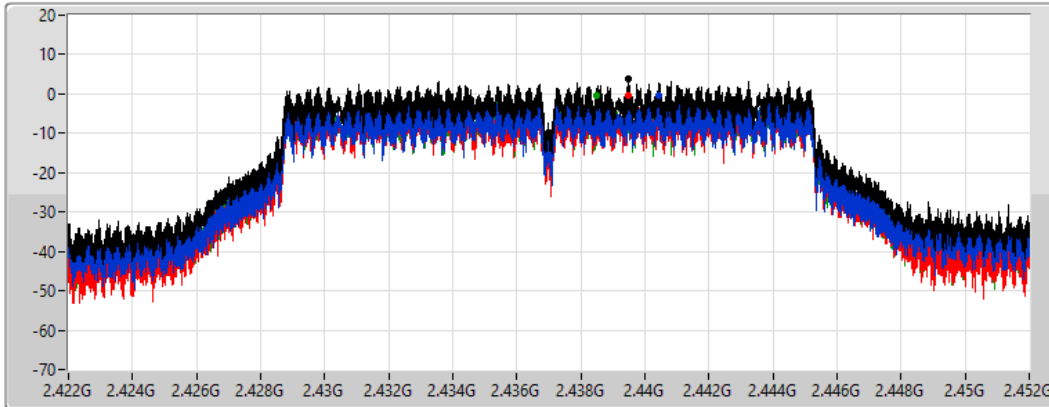
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
Peak



Sum 

Port 1 

Port 2 

Port 3 

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.89	3.89	-0.23	-0.36	-0.42

### 802.11g\_Nss1,(6Mbps)\_3TX

### PSD

2462MHz

14/07/2022

CF  
2.462GHz

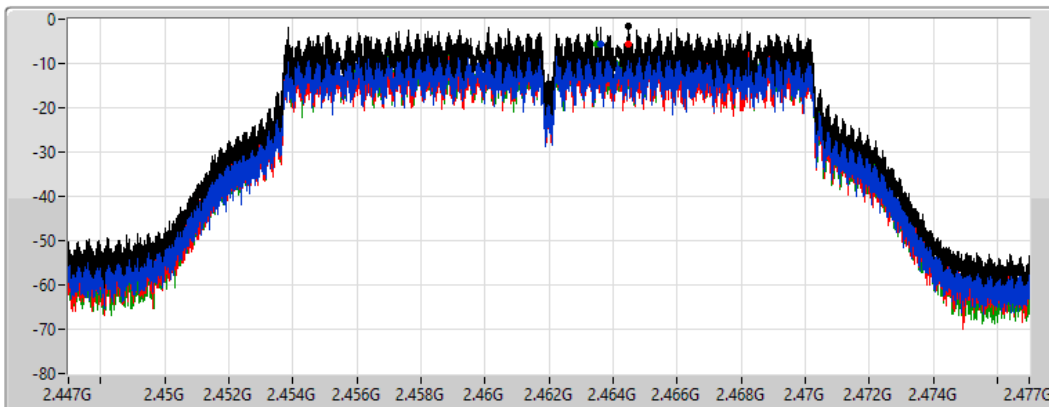
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
Peak



Sum 

Port 1 

Port 2 

Port 3 

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.44	-1.44	-5.51	-5.64	-5.77





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	2.63
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	-4.82

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	6.43	-6.15	-6.89	-6.15	-2.02	7.57
2437MHz	Pass	6.43	-2.05	-1.58	-2.19	2.63	7.57
2462MHz	Pass	6.43	-6.86	-7.44	-6.81	-3.08	7.57
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	6.43	-10.11	-6.46	-10.34	-6.28	7.57
2437MHz	Pass	6.43	-9.02	-5.02	-8.70	-4.82	7.57
2452MHz	Pass	6.43	-10.78	-8.43	-11.46	-7.72	7.57

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

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

### PSD

2412MHz

14/07/2022

CF  
2.412GHz

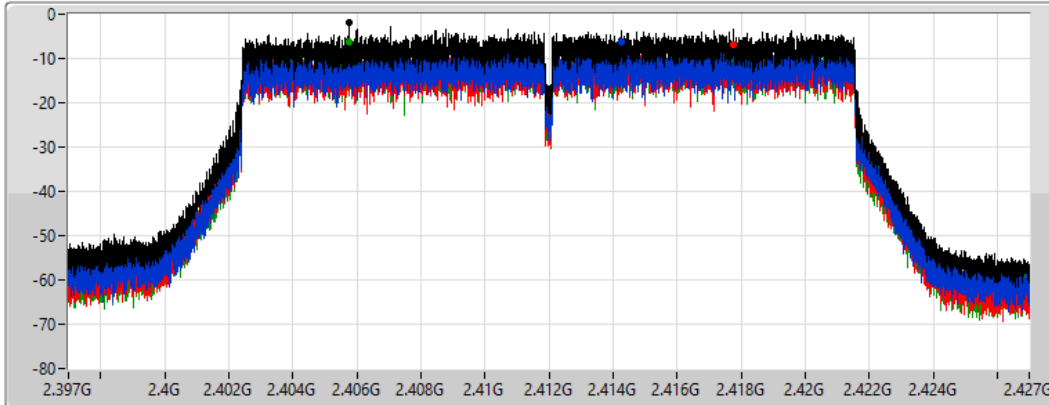
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
Peak



Sum 

Port 1 

Port 2 

Port 3 

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.02	-2.02	-6.15	-6.89	-6.15

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

### PSD

2437MHz

14/07/2022

CF  
2.437GHz

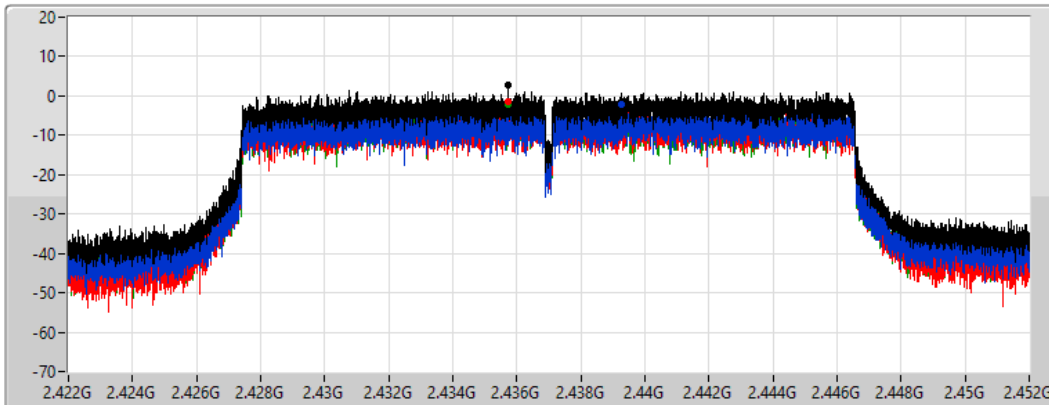
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
Peak



Sum 

Port 1 

Port 2 

Port 3 

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.63	2.63	-2.05	-1.58	-2.19

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

### PSD

2462MHz

14/07/2022

CF  
2.462GHz

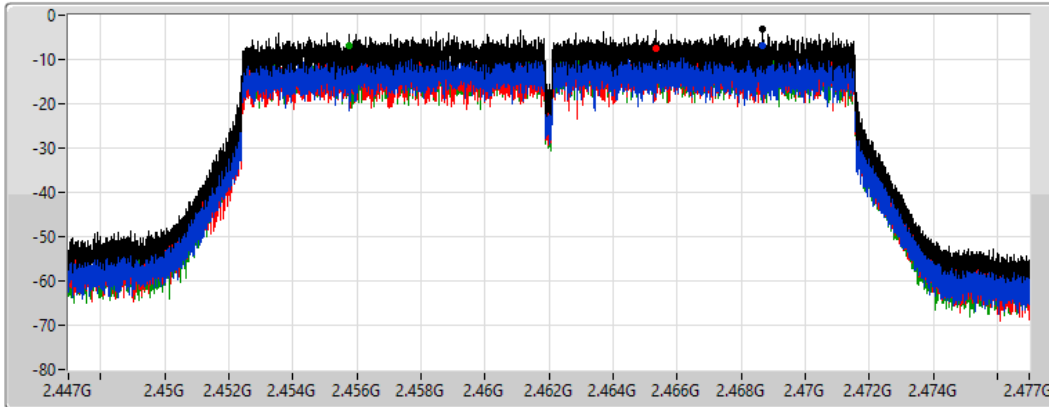
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
Peak



Sum 

Port 1 

Port 2 

Port 3 

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.08	-3.08	-6.86	-7.44	-6.81

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

### PSD

2422MHz

20/07/2022

CF  
2.422GHz

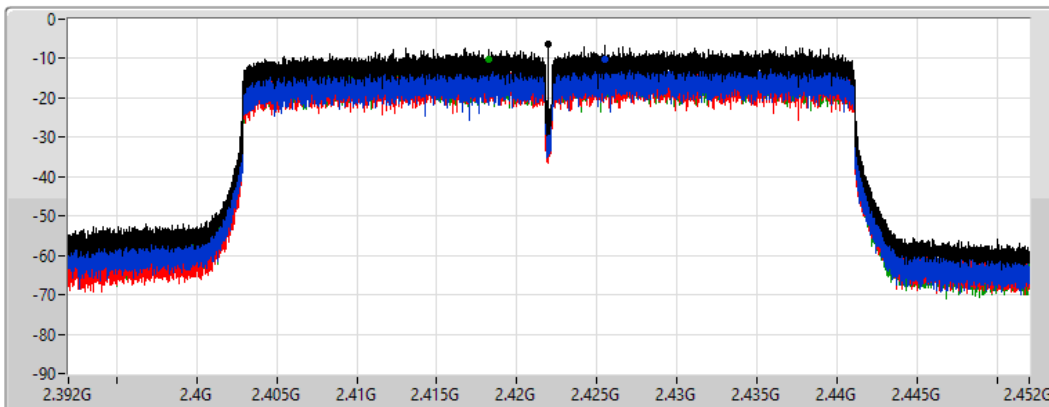
Span  
60MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
2.79ms


Detector Type  
Peak



Sum 

Port 1 

Port 2 

Port 3 

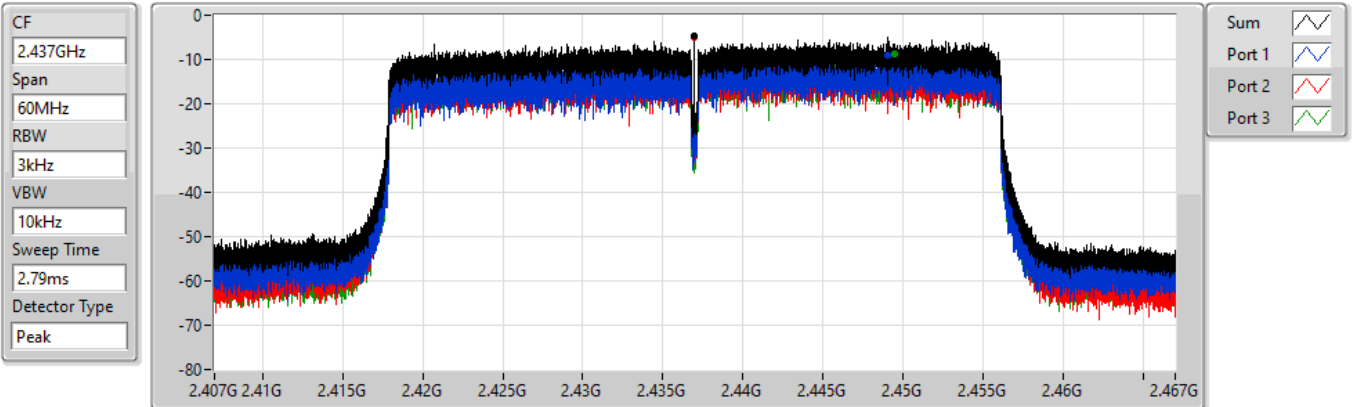
Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.28	-6.28	-10.11	-6.46	-10.34

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

PSD

2437MHz

20/07/2022



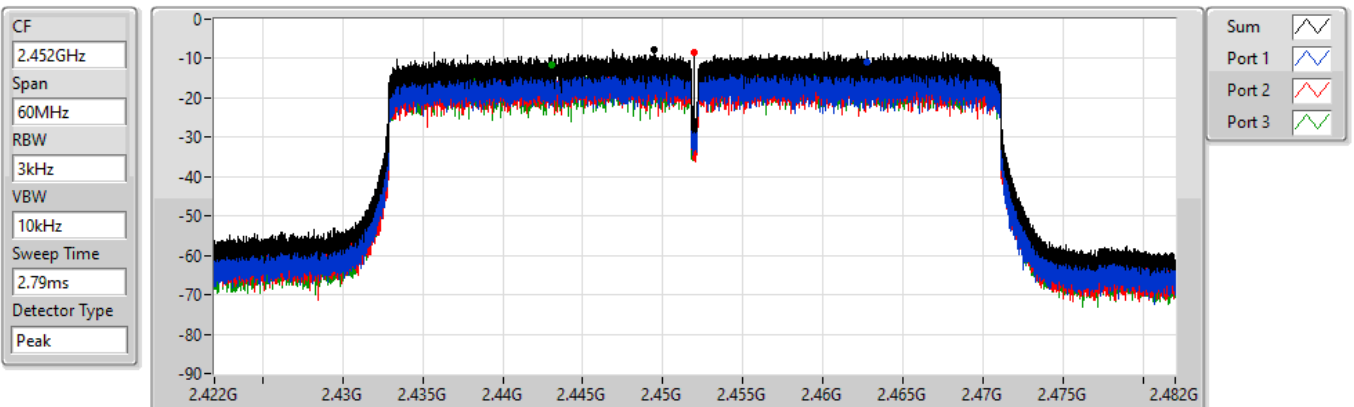
Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.82	-4.82	-9.02	-5.02	-8.70

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

PSD

2452MHz

20/07/2022



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.72	-7.72	-10.78	-8.43	-11.46



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20_Nss2,(MCS0)_3TX	0.88
802.11ax HEW40_Nss2,(MCS0)_3TX	-4.46

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20_Nss2,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	3.42	-7.25	-7.71	-8.33	-3.77	8.00
2437MHz	Pass	3.42	-2.13	-2.76	-2.59	0.88	8.00
2462MHz	Pass	3.42	-6.49	-6.68	-6.50	-3.34	8.00
802.11ax HEW40_Nss2,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	3.42	-11.62	-8.48	-11.95	-8.04	8.00
2437MHz	Pass	3.42	-8.39	-5.78	-8.87	-4.46	8.00
2452MHz	Pass	3.42	-10.51	-8.11	-10.11	-6.62	8.00

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

### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### PSD

2412MHz

20/07/2022

CF  
2.412GHz

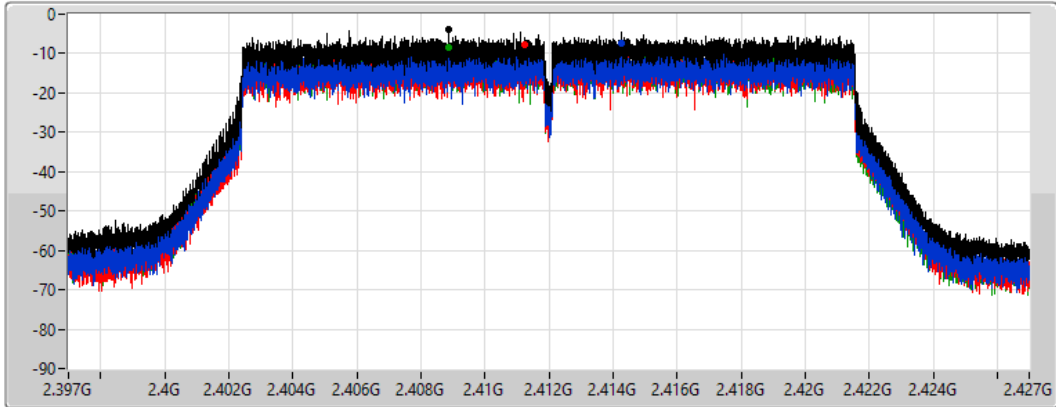
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
1.4ms


Detector Type  
Peak



Sum 

Port 1 

Port 2 

Port 3 

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.77	-3.77	-7.25	-7.71	-8.33

### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### PSD

2437MHz

20/07/2022

CF  
2.437GHz

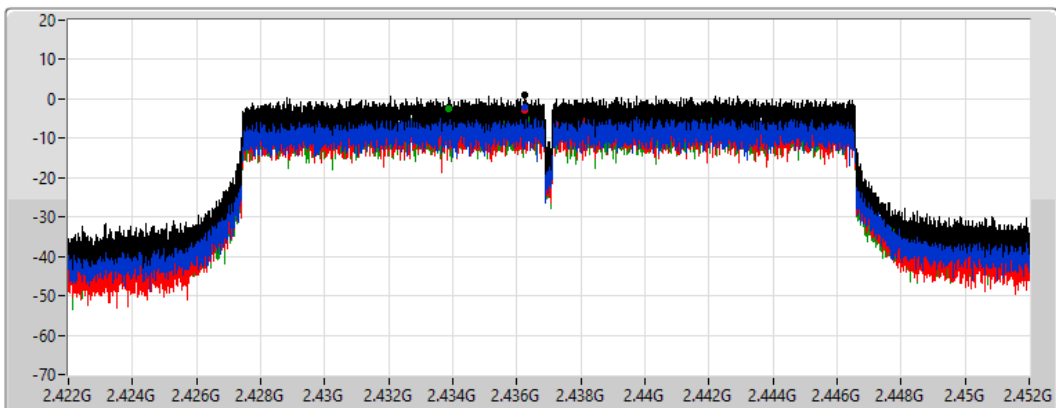
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
1.4ms


Detector Type  
Peak



Sum 

Port 1 

Port 2 

Port 3 

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.88	0.88	-2.13	-2.76	-2.59

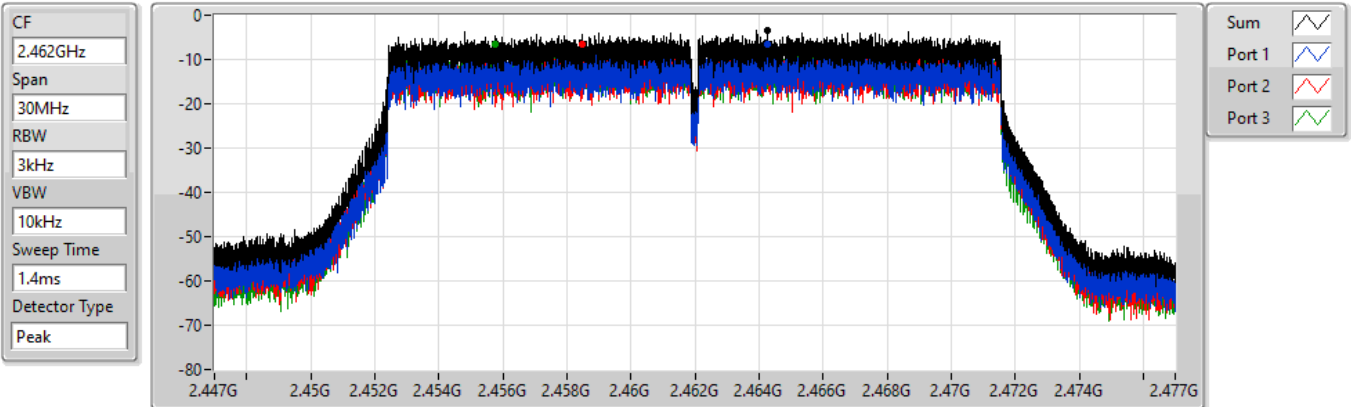


### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

PSD

2462MHz

20/07/2022



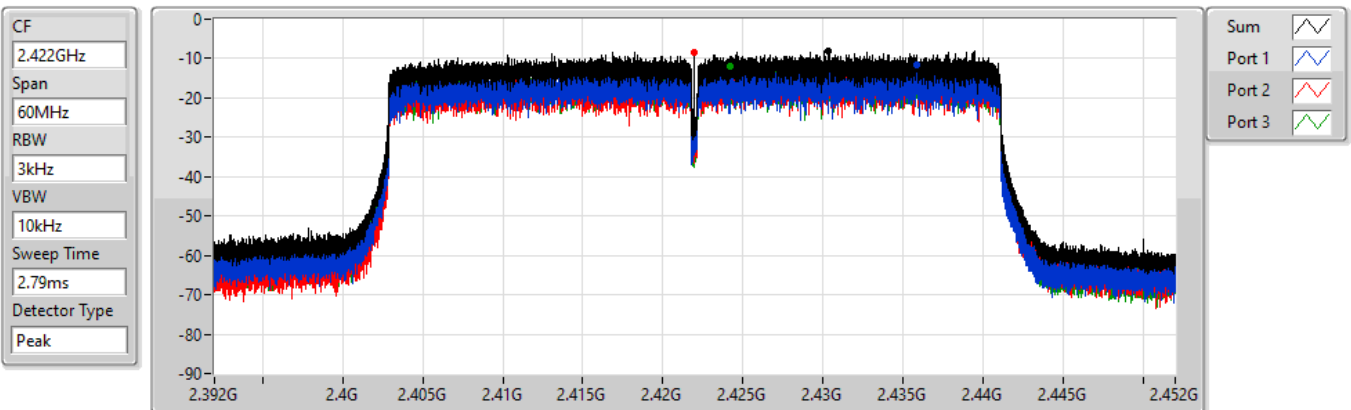
Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.34	-3.34	-6.49	-6.68	-6.50

### 802.11ax HEW40\_Nss2,(MCS0)\_3TX

PSD

2422MHz

20/07/2022



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.04	-8.04	-11.62	-8.48	-11.95

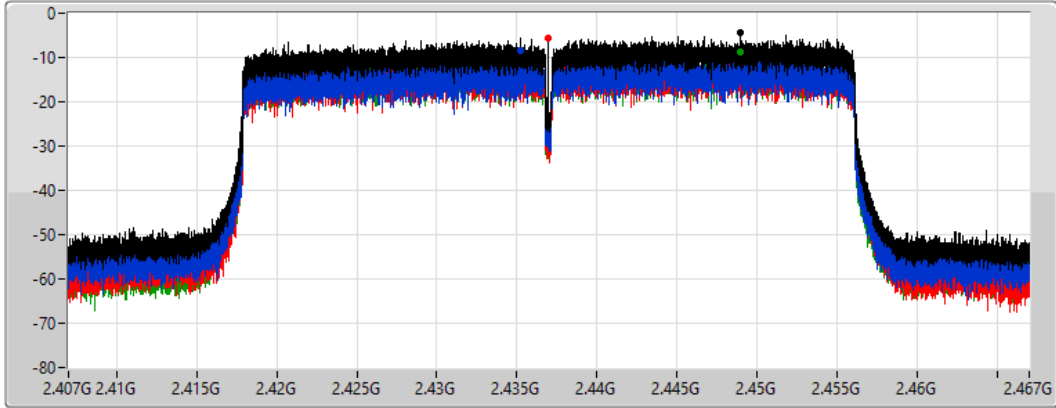
802.11ax HEW40\_Nss2,(MCS0)\_3TX

PSD

2437MHz

20/07/2022

CF  
2.437GHz  
Span  
60MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
2.79ms  
Detector Type  
Peak



Sum   
Port 1   
Port 2   
Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.46	-4.46	-8.39	-5.78	-8.87

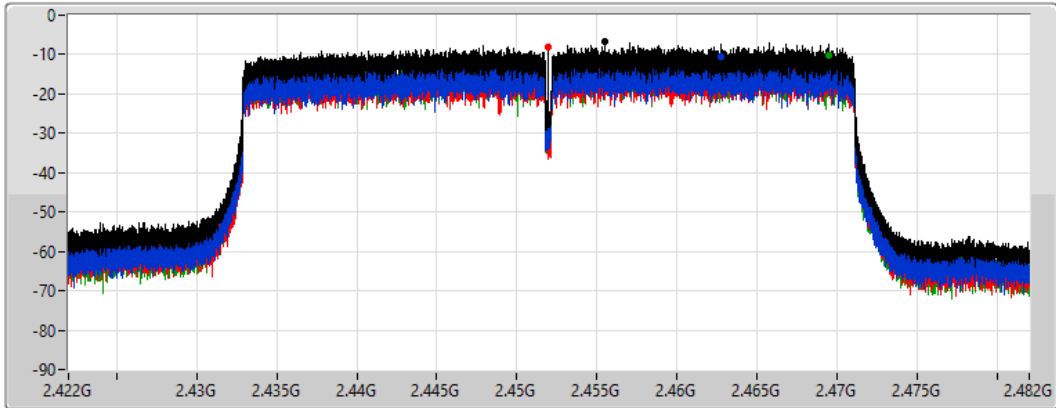
802.11ax HEW40\_Nss2,(MCS0)\_3TX

PSD

2452MHz

20/07/2022

CF  
2.452GHz  
Span  
60MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
2.79ms  
Detector Type  
Peak



Sum   
Port 1   
Port 2   
Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.62	-6.62	-10.51	-8.11	-10.11



Summary

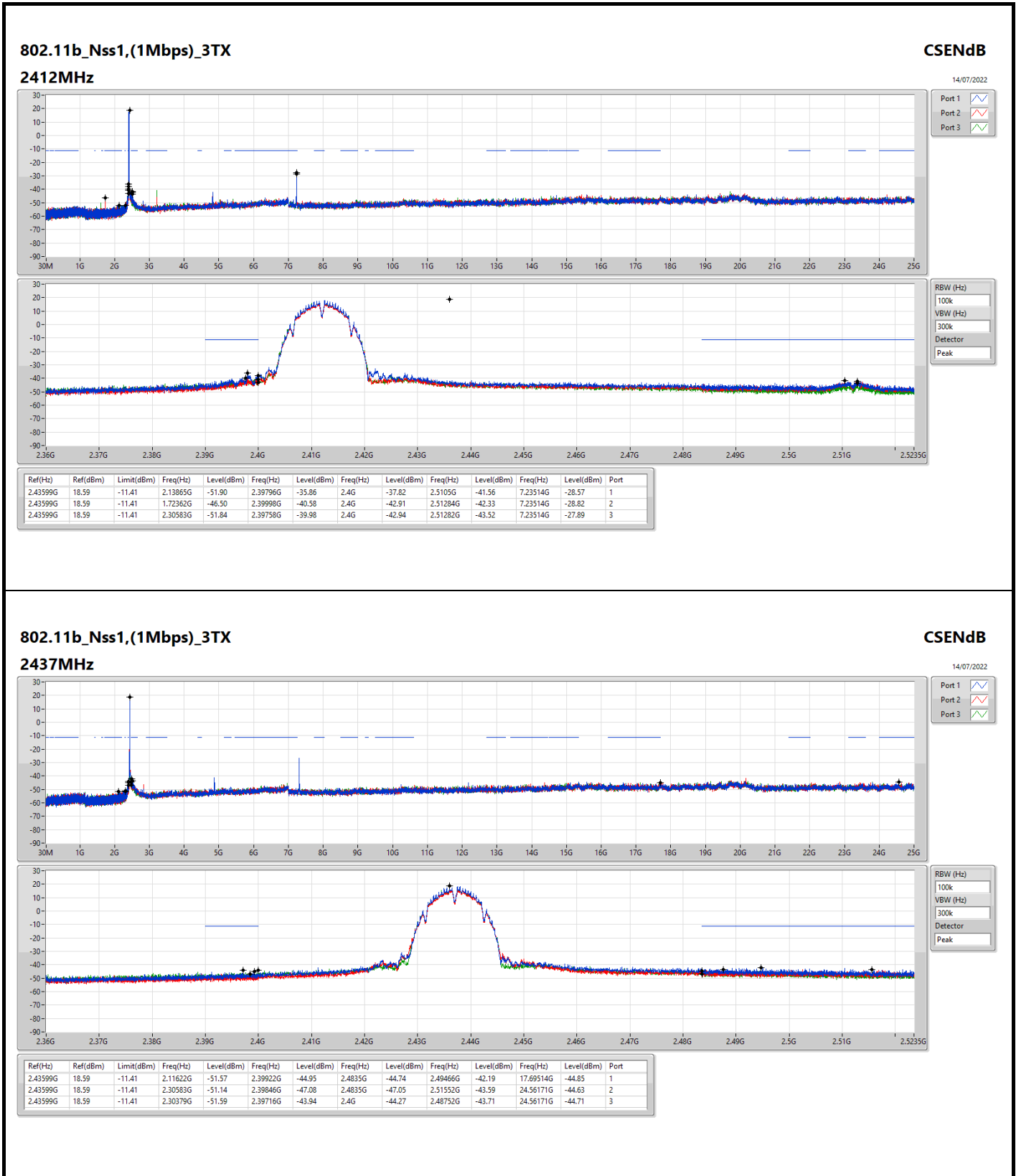
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_3TX	Pass	2.43599G	18.59	-11.41	2.13865G	-51.90	2.39796G	-35.86	2.4G	-37.82	2.5105G	-41.56	7.23514G	-28.57	1
802.11g_Nss1,(6Mbps)_3TX	Pass	2.44446G	14.31	-15.69	2.15001G	-51.77	2.39922G	-34.13	2.4G	-35.43	2.507G	-46.55	7.23514G	-37.82	3



**CSE (Non-restricted Band)\_For 3T1S\_Non beamforming mode Appendix E.1**

**Result**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43599G	18.59	-11.41	2.13865G	-51.90	2.39796G	-35.86	2.4G	-37.82	2.5105G	-41.56	7.23514G	-28.57	1
2412MHz	Pass	2.43599G	18.59	-11.41	1.72362G	-46.50	2.39998G	-40.58	2.4G	-42.91	2.51284G	-42.33	7.23514G	-28.82	2
2412MHz	Pass	2.43599G	18.59	-11.41	2.30583G	-51.84	2.39758G	-39.98	2.4G	-42.94	2.51282G	-43.52	7.23514G	-27.89	3
2437MHz	Pass	2.43599G	18.59	-11.41	2.11622G	-51.57	2.39922G	-44.95	2.4835G	-44.74	2.49466G	-42.19	17.69514G	-44.85	1
2437MHz	Pass	2.43599G	18.59	-11.41	2.30583G	-51.14	2.39846G	-47.08	2.4835G	-47.05	2.51552G	-43.59	24.56171G	-44.63	2
2437MHz	Pass	2.43599G	18.59	-11.41	2.30379G	-51.59	2.39716G	-43.94	2.4G	-44.27	2.48752G	-43.71	24.56171G	-44.71	3
2462MHz	Pass	2.43599G	18.59	-11.41	2.30379G	-52.68	2.39644G	-47.33	2.4835G	-45.05	2.48376G	-42.10	16.63593G	-44.79	1
2462MHz	Pass	2.43599G	18.59	-11.41	1.64149G	-52.29	2.39372G	-49.02	2.4835G	-45.84	2.4857G	-42.48	23.23279G	-45.02	2
2462MHz	Pass	2.43599G	18.59	-11.41	1.64149G	-50.08	2.39846G	-47.01	2.4835G	-44.32	2.48552G	-43.17	3.28208G	-39.89	3
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44446G	14.31	-15.69	736.86M	-51.59	2.39978G	-34.38	2.4G	-35.43	2.49004G	-45.20	7.24357G	-38.23	1
2412MHz	Pass	2.44446G	14.31	-15.69	1.72362G	-48.43	2.4G	-35.01	2.4G	-36.56	2.5064G	-46.47	7.23233G	-37.23	2
2412MHz	Pass	2.44446G	14.31	-15.69	2.15001G	-51.77	2.39922G	-34.13	2.4G	-35.43	2.507G	-46.55	7.23514G	-37.82	3
2437MHz	Pass	2.44446G	14.31	-15.69	750.84M	-52.49	2.39922G	-36.30	2.4G	-40.05	2.48372G	-39.63	24.86795G	-44.39	1
2437MHz	Pass	2.44446G	14.31	-15.69	2.14185G	-51.66	2.3995G	-41.52	2.4G	-44.52	2.48606G	-40.81	24.28075G	-45.03	2
2437MHz	Pass	2.44446G	14.31	-15.69	2.30699G	-51.15	2.39914G	-38.74	2.4G	-39.73	2.48408G	-40.25	23.59803G	-44.79	3
2462MHz	Pass	2.44446G	14.31	-15.69	2.09263G	-52.88	2.39936G	-49.99	2.4835G	-43.67	2.48546G	-39.27	17.66704G	-45.09	1
2462MHz	Pass	2.44446G	14.31	-15.69	1.71634G	-46.14	2.39148G	-50.84	2.4835G	-45.87	2.48356G	-41.13	15.04853G	-44.81	2
2462MHz	Pass	2.44446G	14.31	-15.69	387.36M	-52.09	2.3916G	-49.19	2.4835G	-45.07	2.48456G	-41.55	3.28208G	-42.41	3



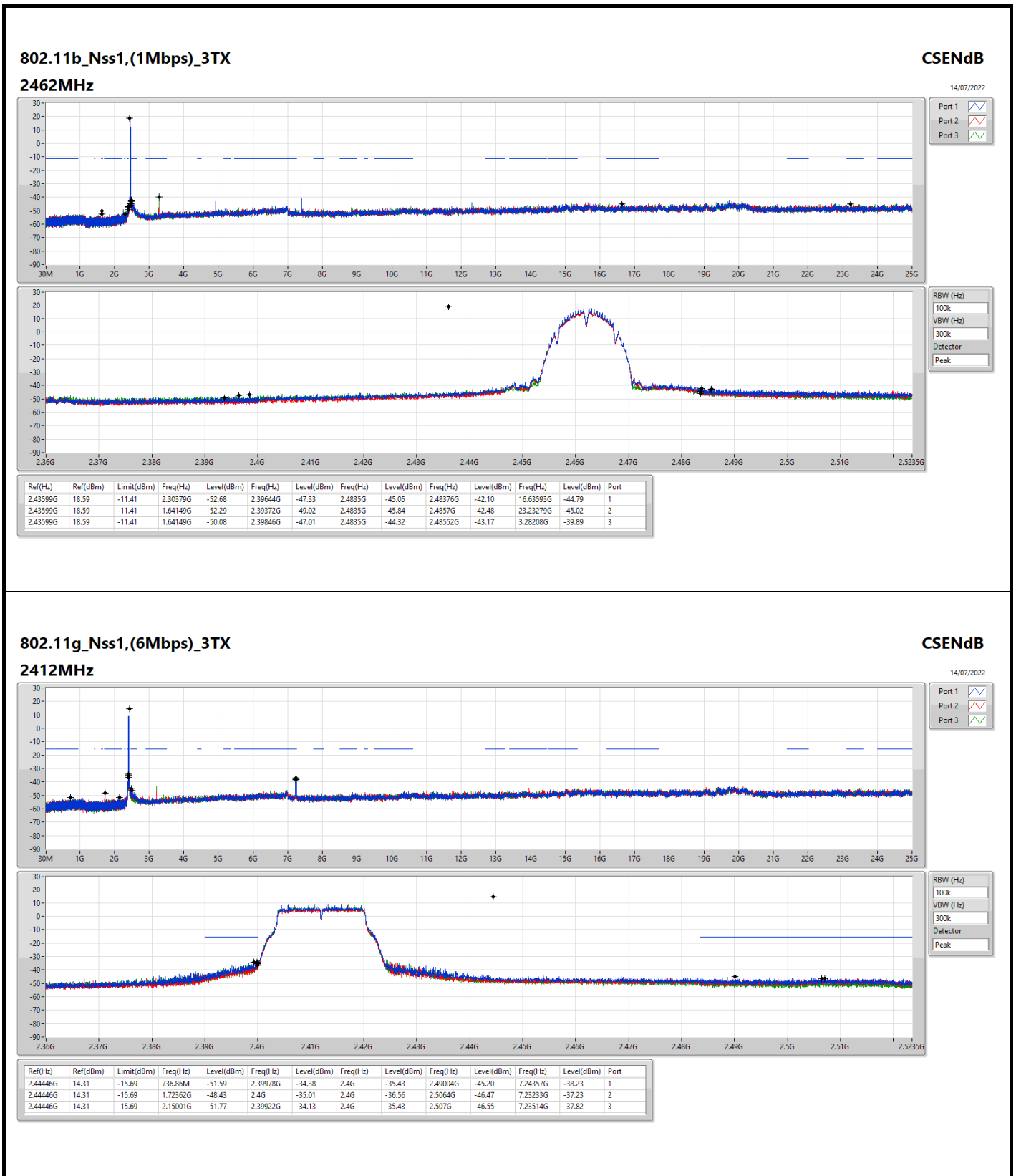
### 802.11b\_Nss1,(1Mbps)\_3TX

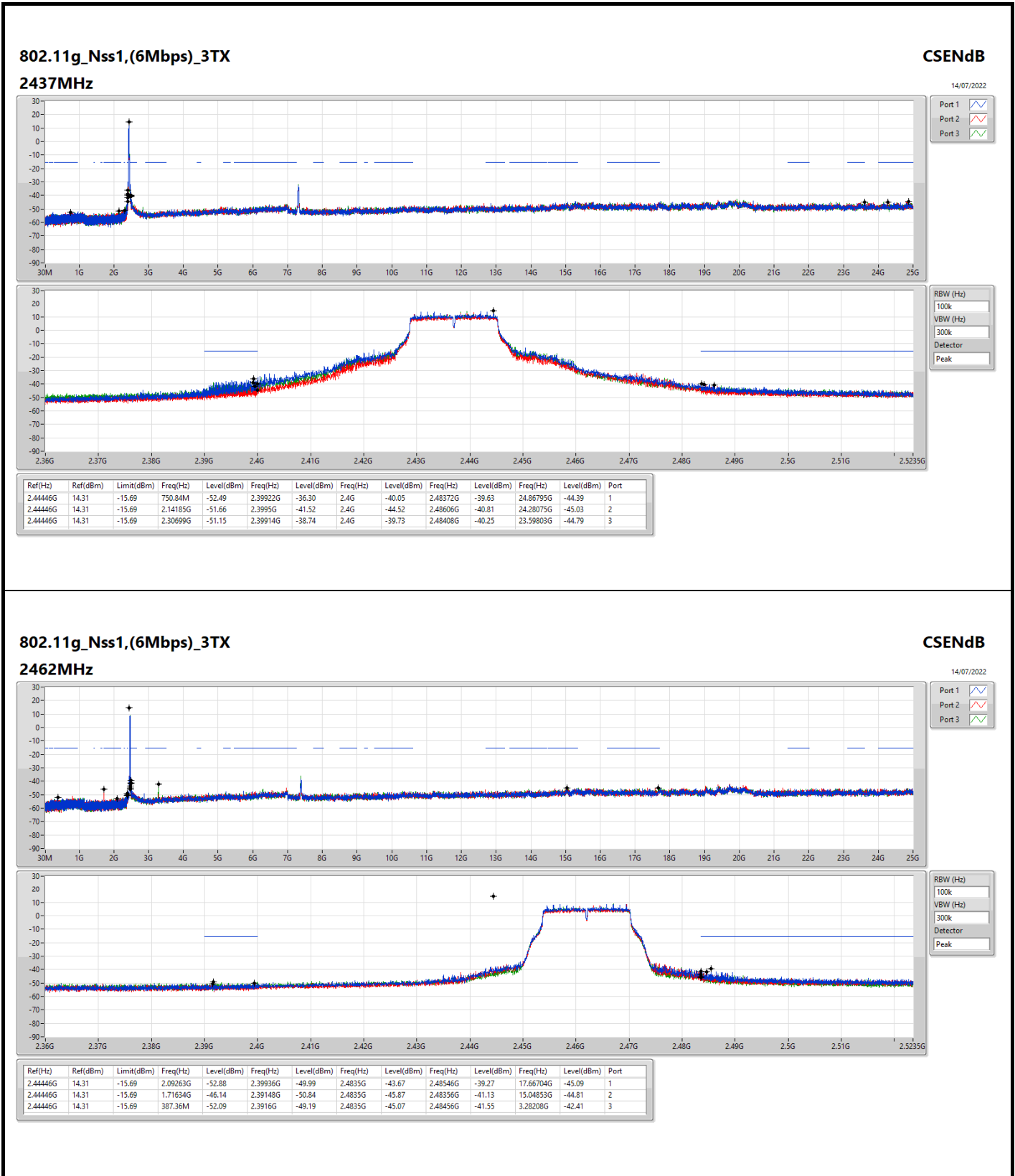
#### 2437MHz

**CSENdB**  
14/07/2022

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43599G	18.59	-11.41	2.11622G	-51.57	2.39922G	-44.95	2.4835G	-44.74	2.49466G	-42.19	17.69514G	-44.85	1
2.43599G	18.59	-11.41	2.30583G	-51.14	2.39846G	-47.08	2.4835G	-47.05	2.51532G	-43.59	24.56171G	-44.63	2
2.43599G	18.59	-11.41	2.30379G	-51.59	2.39716G	-43.94	2.4G	-44.27	2.46752G	-43.71	24.56171G	-44.71	3

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





### 802.11g\_Nss1,(6Mbps)\_3TX

#### 2462MHz

**CSENdB**  
14/07/2022



Summary

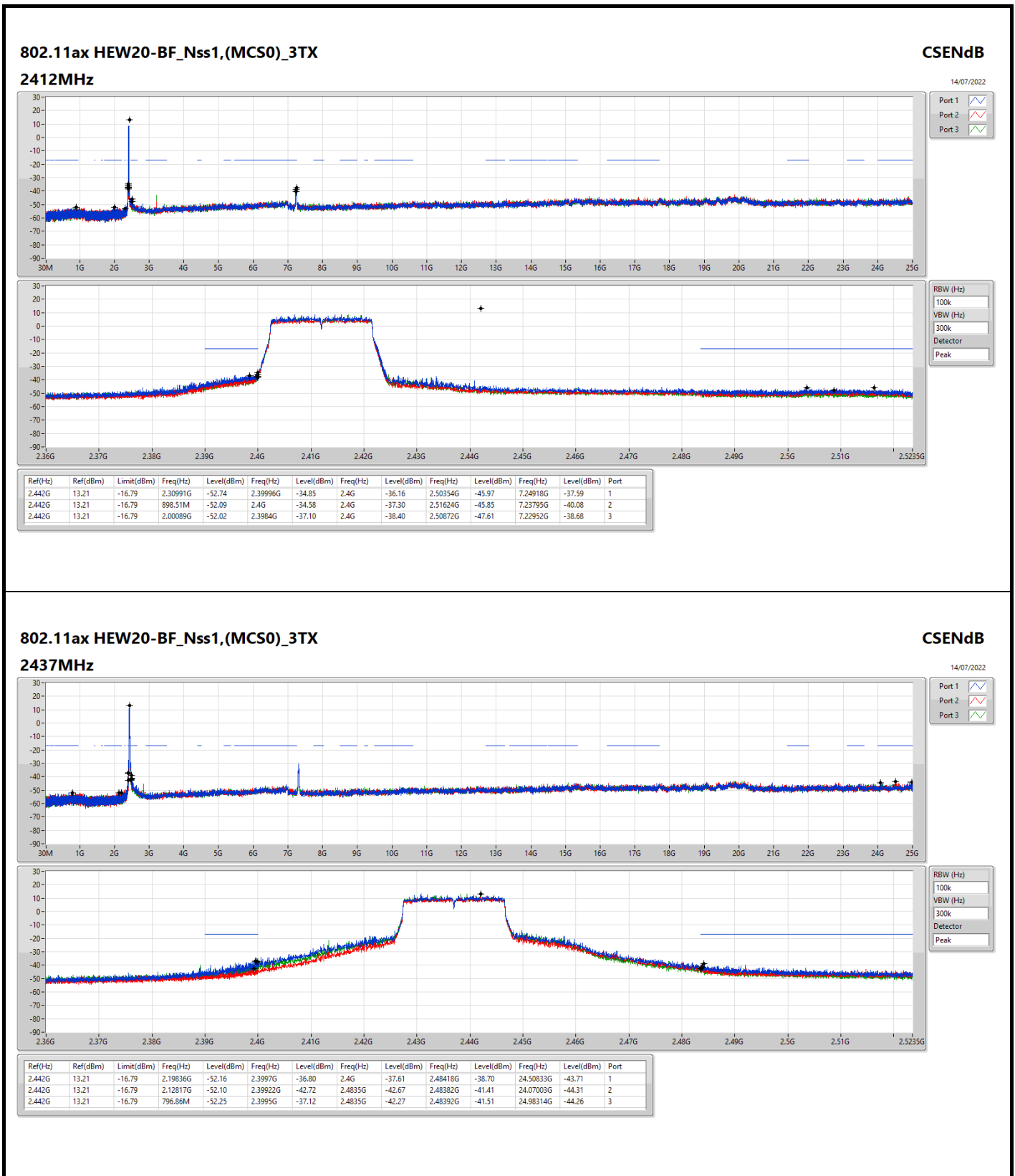
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	Pass	2.442G	13.21	-16.79	898.51M	-52.09	2.4G	-34.58	2.4G	-37.30	2.51624G	-45.85	7.23795G	-40.08	2
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	Pass	2.44952G	6.98	-23.02	32M	-51.96	2.39948G	-35.31	2.4G	-38.10	2.48362G	-36.66	21.58404G	-46.83	1

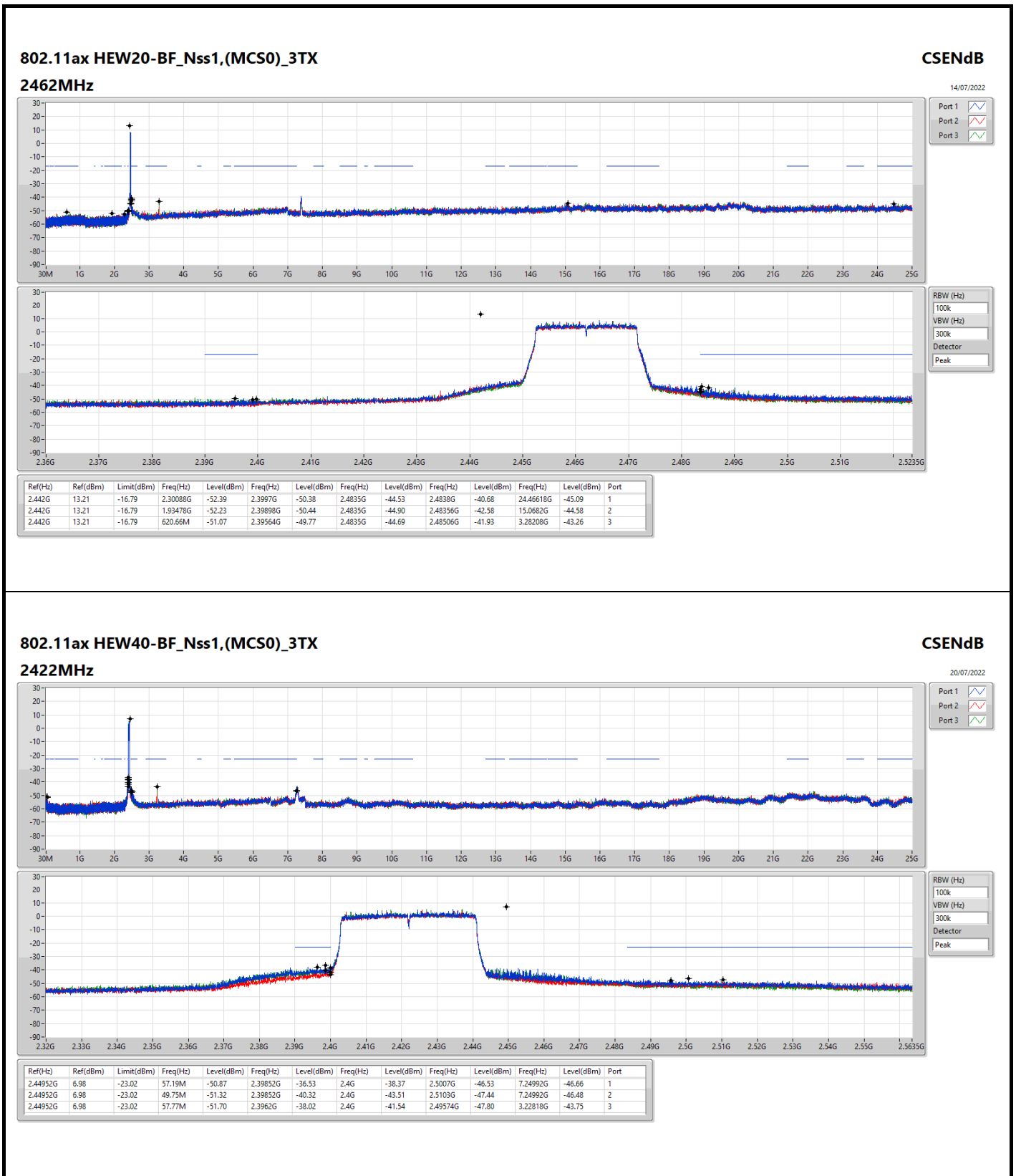


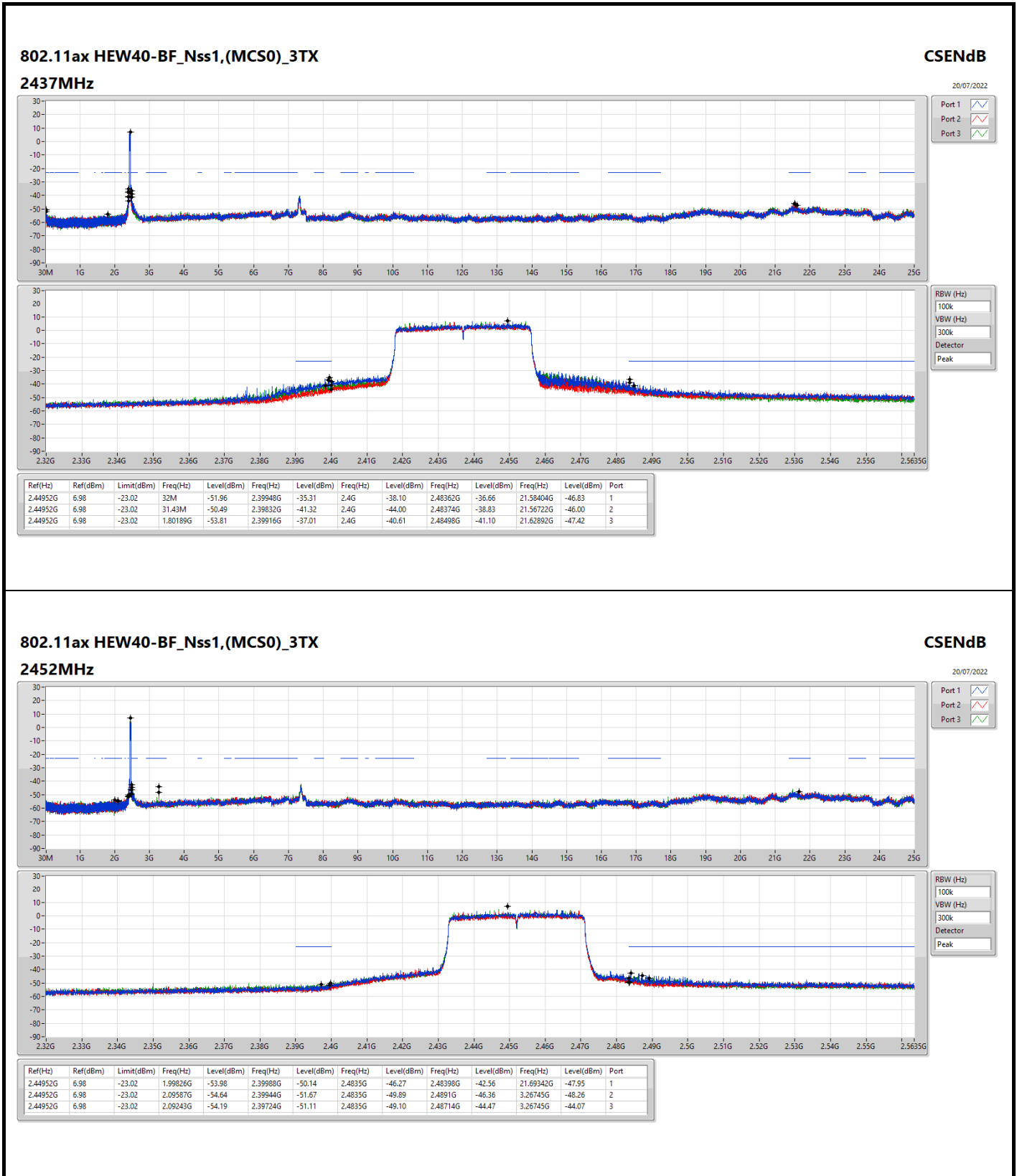


Result

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)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	13.21	-16.79	2.30991G	-52.74	2.39996G	-34.85	2.4G	-36.16	2.50354G	-45.97	7.24918G	-37.59	1
2412MHz	Pass	2.442G	13.21	-16.79	898.51M	-52.09	2.4G	-34.58	2.4G	-37.30	2.51624G	-45.85	7.23795G	-40.08	2
2412MHz	Pass	2.442G	13.21	-16.79	2.00089G	-52.02	2.3984G	-37.10	2.4G	-38.40	2.50872G	-47.61	7.22952G	-38.68	3
2437MHz	Pass	2.442G	13.21	-16.79	2.19836G	-52.16	2.3997G	-36.80	2.4G	-37.61	2.48418G	-38.70	24.50833G	-43.71	1
2437MHz	Pass	2.442G	13.21	-16.79	2.12817G	-52.10	2.39922G	-42.72	2.4835G	-42.67	2.48382G	-41.41	24.07003G	-44.31	2
2437MHz	Pass	2.442G	13.21	-16.79	796.86M	-52.25	2.3995G	-37.12	2.4835G	-42.27	2.48392G	-41.51	24.98314G	-44.26	3
2462MHz	Pass	2.442G	13.21	-16.79	2.30088G	-52.39	2.3997G	-50.38	2.4835G	-44.53	2.4838G	-40.68	24.46618G	-45.09	1
2462MHz	Pass	2.442G	13.21	-16.79	1.93478G	-52.23	2.39898G	-50.44	2.4835G	-44.90	2.48356G	-42.58	15.0682G	-44.58	2
2462MHz	Pass	2.442G	13.21	-16.79	620.66M	-51.07	2.39564G	-49.77	2.4835G	-44.69	2.48506G	-41.93	3.28208G	-43.26	3
802.11ax HEW40-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44952G	6.98	-23.02	57.19M	-50.87	2.39852G	-36.53	2.4G	-38.37	2.5007G	-46.53	7.24992G	-46.66	1
2422MHz	Pass	2.44952G	6.98	-23.02	49.75M	-51.32	2.39852G	-40.32	2.4G	-43.51	2.5103G	-47.44	7.24992G	-46.48	2
2422MHz	Pass	2.44952G	6.98	-23.02	57.77M	-51.70	2.3962G	-38.02	2.4G	-41.54	2.49574G	-47.80	3.22818G	-43.75	3
2437MHz	Pass	2.44952G	6.98	-23.02	32M	-51.96	2.39948G	-35.31	2.4G	-38.10	2.48362G	-36.66	21.58404G	-46.83	1
2437MHz	Pass	2.44952G	6.98	-23.02	31.43M	-50.49	2.39832G	-41.32	2.4G	-44.00	2.48374G	-38.83	21.56722G	-46.00	2
2437MHz	Pass	2.44952G	6.98	-23.02	1.80189G	-53.81	2.39916G	-37.01	2.4G	-40.61	2.48498G	-41.10	21.62892G	-47.42	3
2452MHz	Pass	2.44952G	6.98	-23.02	1.99826G	-53.98	2.39988G	-50.14	2.4835G	-46.27	2.48398G	-42.56	21.69342G	-47.95	1
2452MHz	Pass	2.44952G	6.98	-23.02	2.09587G	-54.64	2.39944G	-51.67	2.4835G	-49.89	2.4891G	-46.36	3.26745G	-48.26	2
2452MHz	Pass	2.44952G	6.98	-23.02	2.09243G	-54.19	2.39724G	-51.11	2.4835G	-49.10	2.48714G	-44.47	3.26745G	-44.07	3







**802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX**

**2452MHz**

**CSENdB**

20/07/2022



Summary

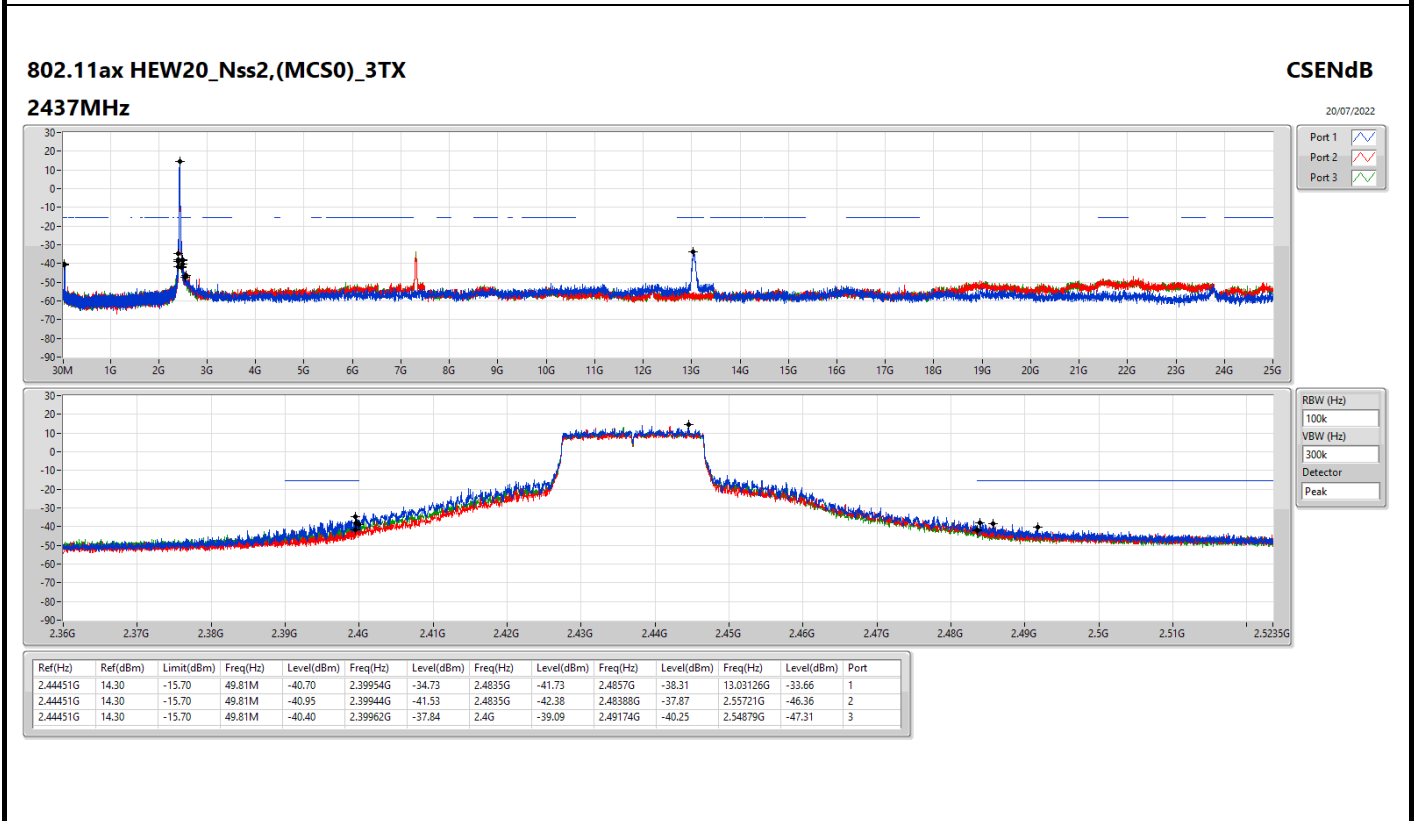
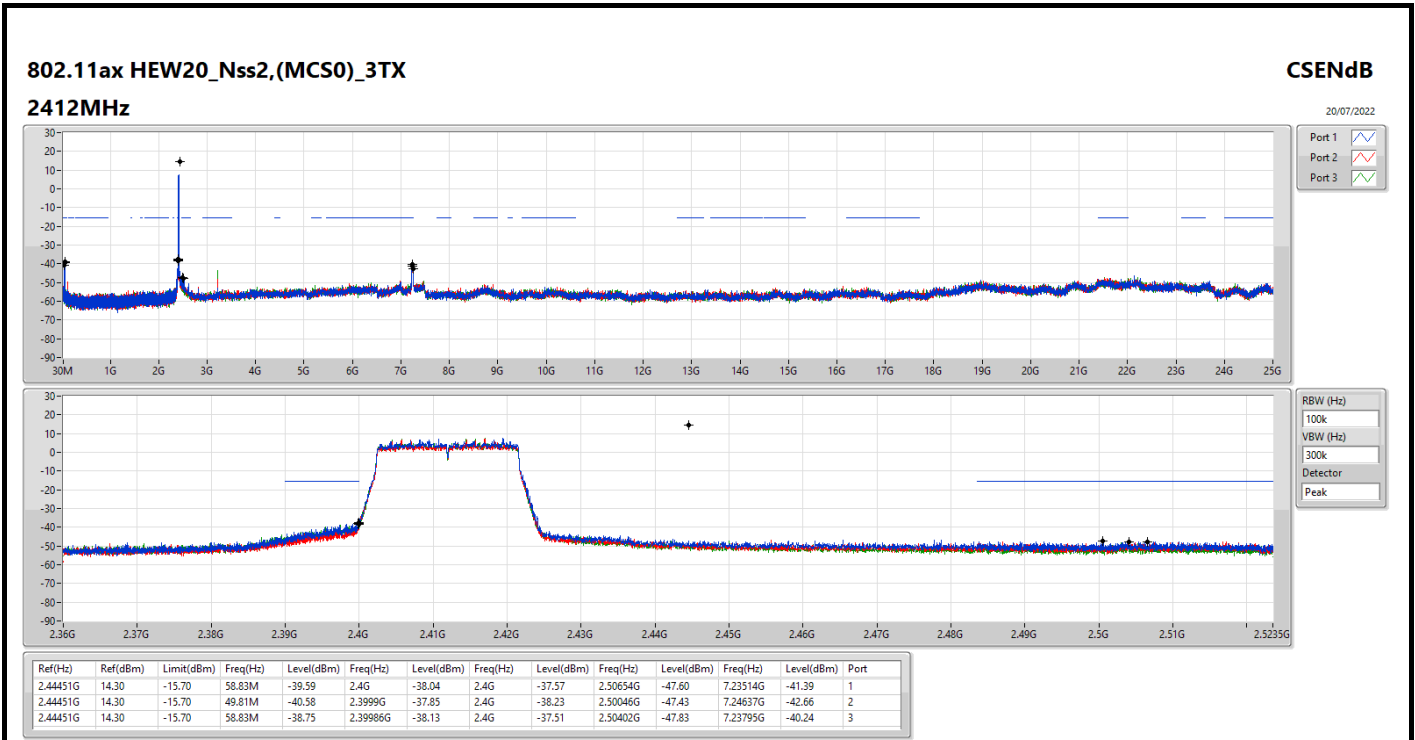
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_3TX	Pass	2.44451G	14.30	-15.70	49.81M	-40.70	2.39954G	-34.73	2.4835G	-41.73	2.4857G	-38.31	13.03126G	-33.66	1
802.11ax HEW40_Nss2,(MCS0)_3TX	Pass	2.45448G	7.22	-22.78	49.75M	-44.06	2.39956G	-35.70	2.4G	-36.92	2.48382G	-39.27	21.63453G	-47.38	1

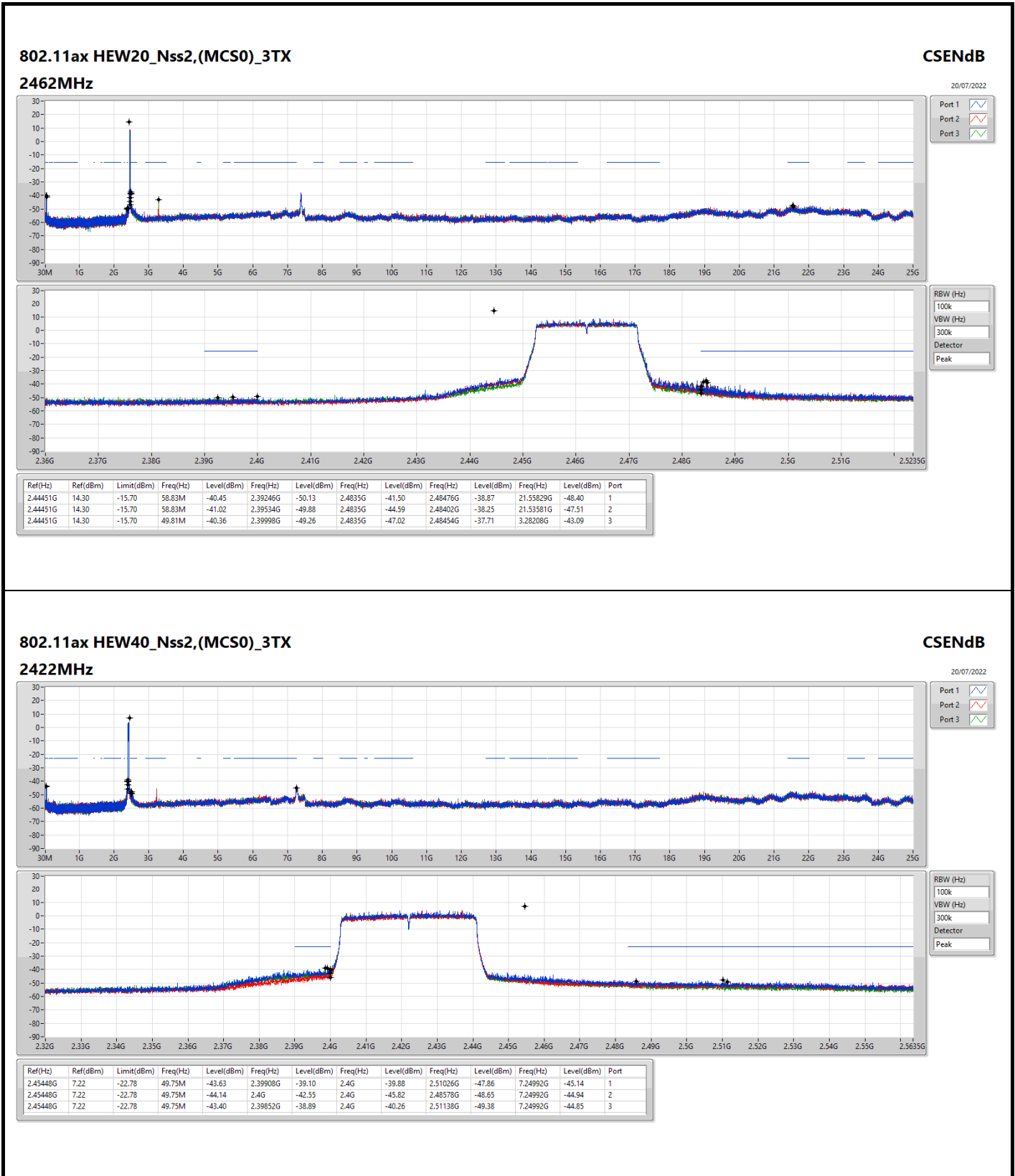


**CSE (Non-restricted Band)\_For 3T2S\_Non beamforming mode Appendix E.3**

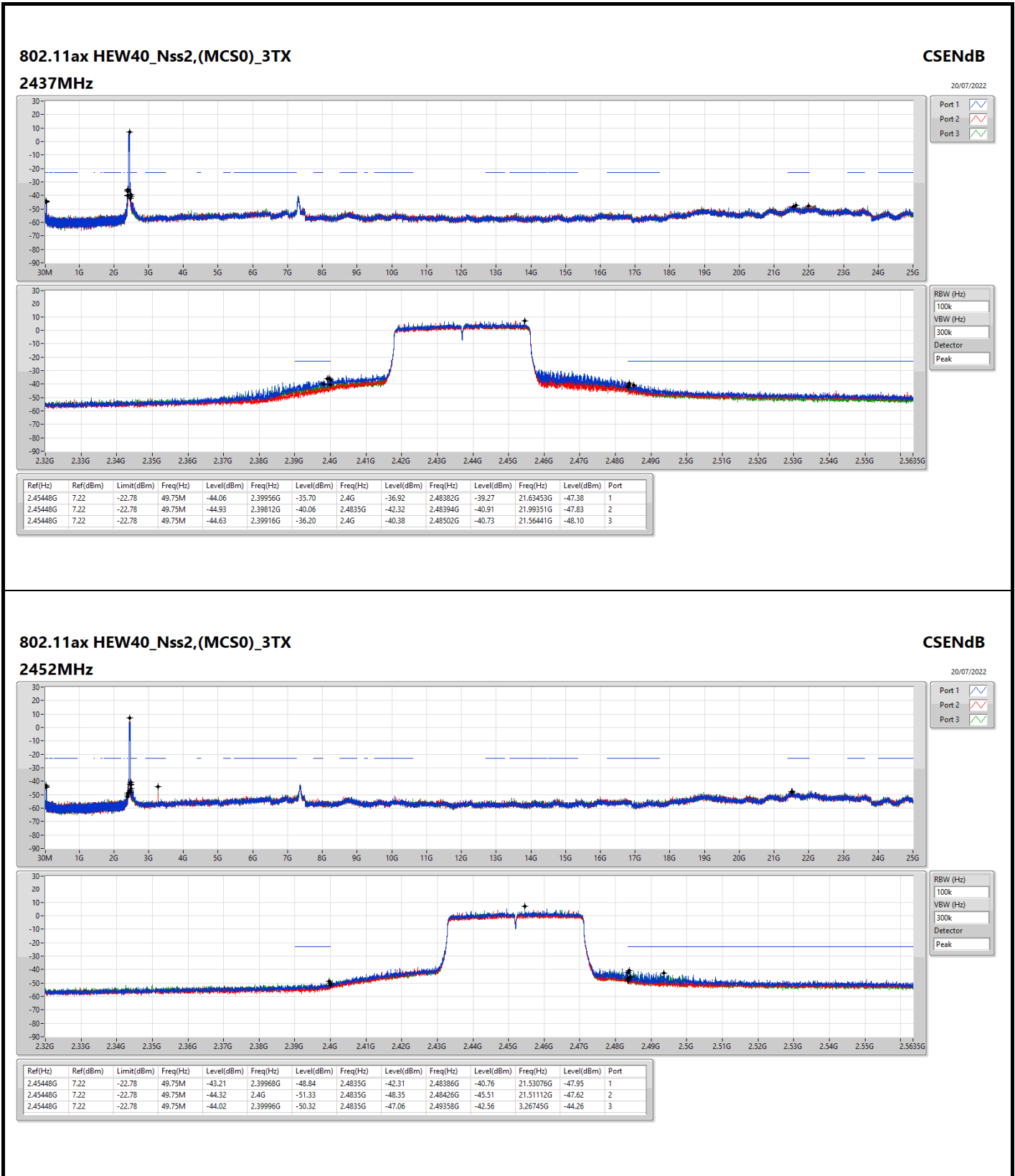
**Result**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20_Nss2.(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44451G	14.30	-15.70	58.83M	-39.59	2.4G	-38.04	2.4G	-37.57	2.50654G	-47.60	7.23514G	-41.39	1
2412MHz	Pass	2.44451G	14.30	-15.70	49.81M	-40.58	2.3999G	-37.85	2.4G	-38.23	2.50046G	-47.43	7.24637G	-42.66	2
2412MHz	Pass	2.44451G	14.30	-15.70	58.83M	-38.75	2.39986G	-38.13	2.4G	-37.51	2.50402G	-47.83	7.23795G	-40.24	3
2437MHz	Pass	2.44451G	14.30	-15.70	49.81M	-40.70	2.39954G	-34.73	2.4835G	-41.73	2.4857G	-38.31	13.03126G	-33.66	1
2437MHz	Pass	2.44451G	14.30	-15.70	49.81M	-40.95	2.39944G	-41.53	2.4835G	-42.38	2.48388G	-37.87	2.55721G	-46.36	2
2437MHz	Pass	2.44451G	14.30	-15.70	49.81M	-40.40	2.39962G	-37.84	2.4G	-39.09	2.49174G	-40.25	2.54879G	-47.31	3
2462MHz	Pass	2.44451G	14.30	-15.70	58.83M	-40.45	2.39246G	-50.13	2.4835G	-41.50	2.48476G	-38.87	21.55829G	-48.40	1
2462MHz	Pass	2.44451G	14.30	-15.70	58.83M	-41.02	2.39534G	-49.88	2.4835G	-44.59	2.48402G	-38.25	21.53581G	-47.51	2
2462MHz	Pass	2.44451G	14.30	-15.70	49.81M	-40.36	2.39998G	-49.26	2.4835G	-47.02	2.48454G	-37.71	3.28208G	-43.09	3
802.11ax HEW40_Nss2.(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.45448G	7.22	-22.78	49.75M	-43.63	2.39908G	-39.10	2.4G	-39.88	2.51026G	-47.86	7.24992G	-45.14	1
2422MHz	Pass	2.45448G	7.22	-22.78	49.75M	-44.14	2.4G	-42.55	2.4G	-45.82	2.48578G	-48.65	7.24992G	-44.94	2
2422MHz	Pass	2.45448G	7.22	-22.78	49.75M	-43.40	2.39852G	-38.89	2.4G	-40.26	2.51138G	-49.38	7.24992G	-44.85	3
2437MHz	Pass	2.45448G	7.22	-22.78	49.75M	-44.06	2.39956G	-35.70	2.4G	-36.92	2.48382G	-39.27	21.63453G	-47.38	1
2437MHz	Pass	2.45448G	7.22	-22.78	49.75M	-44.93	2.39812G	-40.06	2.4835G	-42.32	2.48394G	-40.91	21.99351G	-47.83	2
2437MHz	Pass	2.45448G	7.22	-22.78	49.75M	-44.63	2.39916G	-36.20	2.4G	-40.38	2.48502G	-40.73	21.56441G	-48.10	3
2452MHz	Pass	2.45448G	7.22	-22.78	49.75M	-43.21	2.39968G	-48.84	2.4835G	-42.31	2.48386G	-40.76	21.53076G	-47.95	1
2452MHz	Pass	2.45448G	7.22	-22.78	49.75M	-44.32	2.4G	-51.33	2.4835G	-48.35	2.48426G	-45.51	21.51112G	-47.62	2
2452MHz	Pass	2.45448G	7.22	-22.78	49.75M	-44.02	2.39996G	-50.32	2.4835G	-47.06	2.49358G	-42.56	3.26745G	-44.26	3







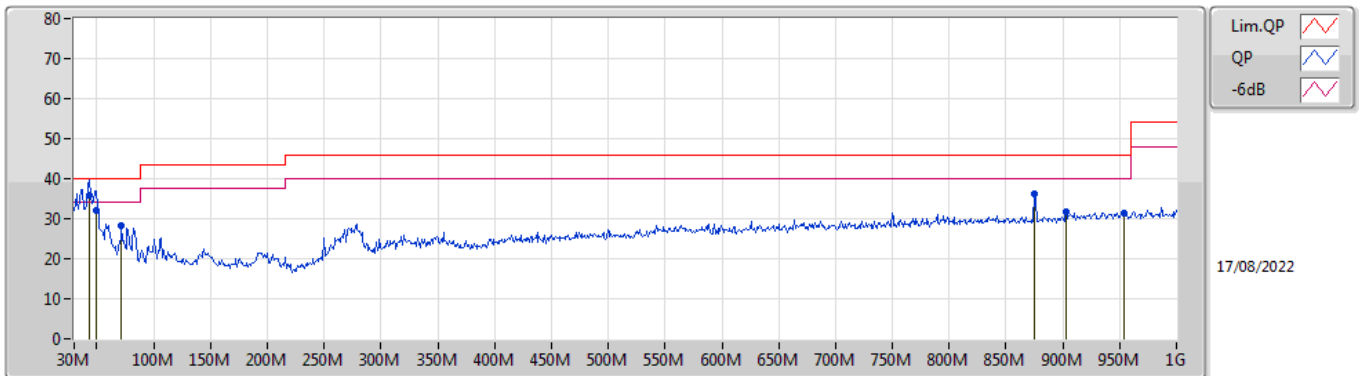




**Summary**

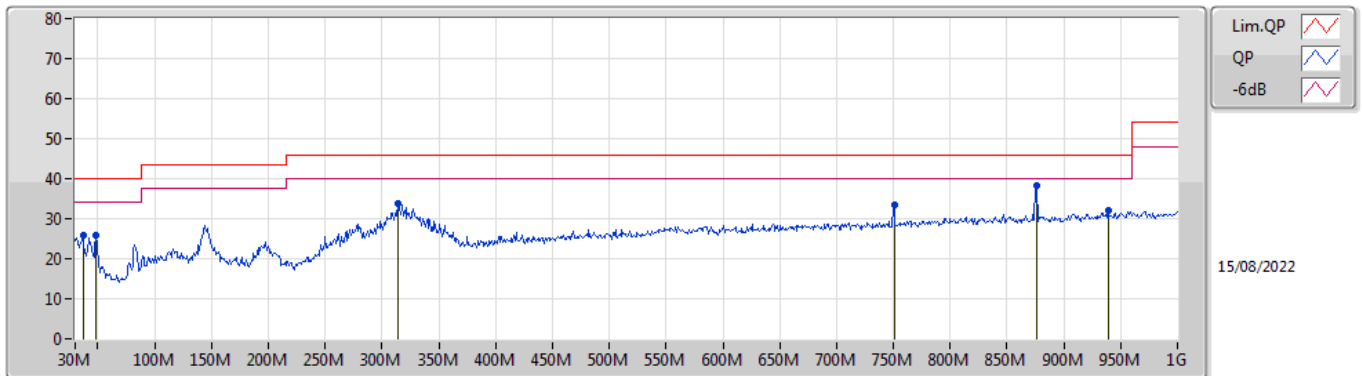
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 5	Pass	QP	43.58M	35.92	40.00	-4.08	Vertical

Mode 5



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	43.58M	35.92	40.00	-4.08	-14.12	3	Vertical	360	1.25	"Worst"	50.04	16.72	0.97	31.81
QP	49.4M	32.14	40.00	-7.86	-16.49	3	Vertical	280	1.50	-	48.63	14.28	1.09	31.86
PK	71.71M	28.29	40.00	-11.71	-18.53	3	Vertical	158	1.00	-	46.82	12.14	1.30	31.97
PK	874.87M	36.13	46.00	-9.87	-1.26	3	Vertical	255	1.25	-	37.39	26.03	5.20	32.49
PK	903M	31.66	46.00	-14.34	-0.97	3	Vertical	0	1.50	-	32.63	26.20	5.32	32.49
PK	953.44M	31.54	46.00	-14.46	-0.32	3	Vertical	193	1.50	-	31.86	26.55	5.60	32.47

Mode 5



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	36.79M	25.72	40.00	-14.28	-10.45	3	Horizontal	315	2.00	-	36.17	20.36	0.90	31.71
PK	48.43M	25.83	40.00	-14.17	-16.19	3	Horizontal	288	2.00	-	42.02	14.59	1.07	31.85
PK	314.21M	33.69	46.00	-12.31	-9.90	3	Horizontal	163	1.00	-	43.59	19.44	2.79	32.13
PK	750.71M	33.34	46.00	-12.66	-2.64	3	Horizontal	164	2.00	-	35.98	25.27	4.70	32.61
PK	875.84M	38.15	46.00	-7.85	-1.26	3	Horizontal	202	1.00	"Worst"	39.41	26.03	5.20	32.49
PK	938.89M	32.22	46.00	-13.78	-0.59	3	Horizontal	306	1.25	-	32.81	26.36	5.53	32.48

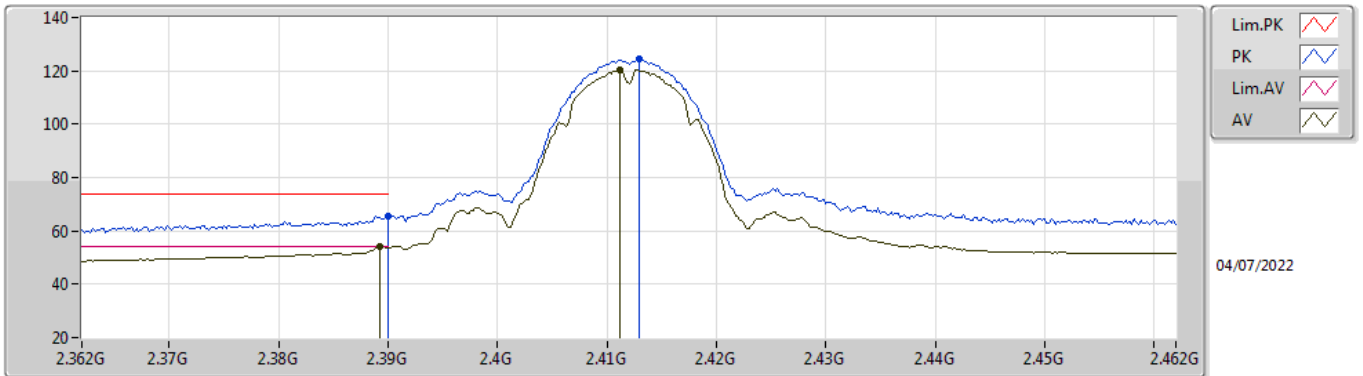


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_3TX	Pass	AV	2.3892G	53.95	54.00	-0.05	3	Vertical	311	1.85	-

### 802.11b\_Nss1,(1Mbps)\_3TX

### 2412MHz\_TX

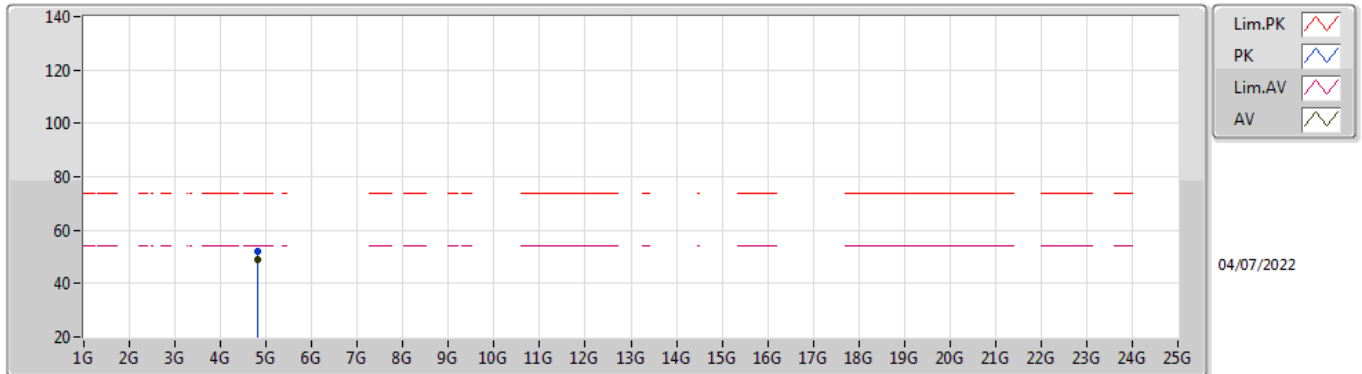


EUT Y\_3TX  
Setting 103  
06-F-S-5

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	65.70	74.00	-8.30	34.33	3	Vertical	311	1.85	-	27.48	3.89	-
AV	2.3892G	53.95	54.00	-0.05	22.57	3	Vertical	311	1.85	-	27.49	3.89	-
PK	2.413G	124.40	Inf	-Inf	93.15	3	Vertical	311	1.85	-	27.35	3.90	-
AV	2.4112G	120.22	Inf	-Inf	88.96	3	Vertical	311	1.85	-	27.36	3.90	-

### 802.11b\_Nss1,(1Mbps)\_3TX

### 2412MHz\_TX

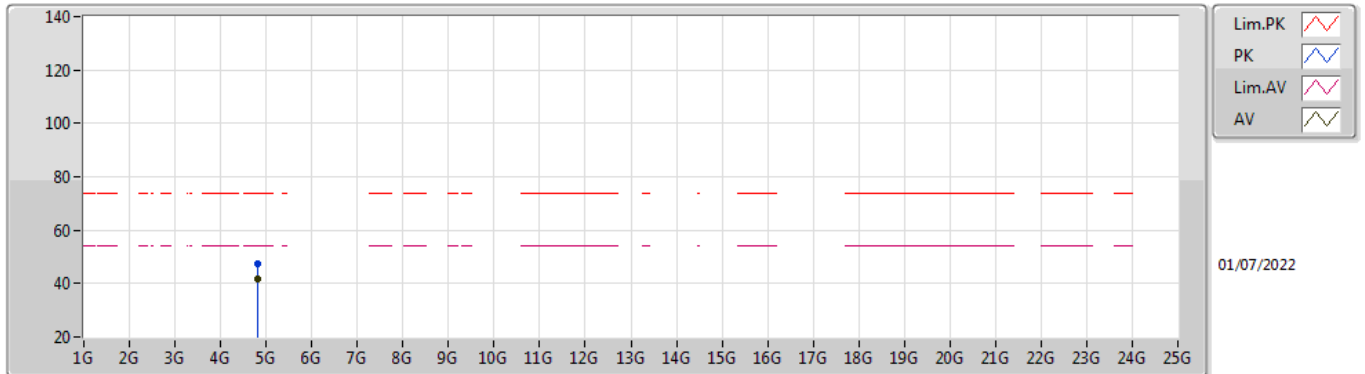


EUT Y\_3TX  
Setting 103  
06-F-S-5

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	52.06	74.00	-21.94	58.86	3	Vertical	222	1.67	-	31.05	5.37	43.22
AV	4.82398G	49.09	54.00	-4.91	55.89	3	Vertical	222	1.67	-	31.05	5.37	43.22

### 802.11b\_Nss1,(1Mbps)\_3TX

### 2412MHz\_TX



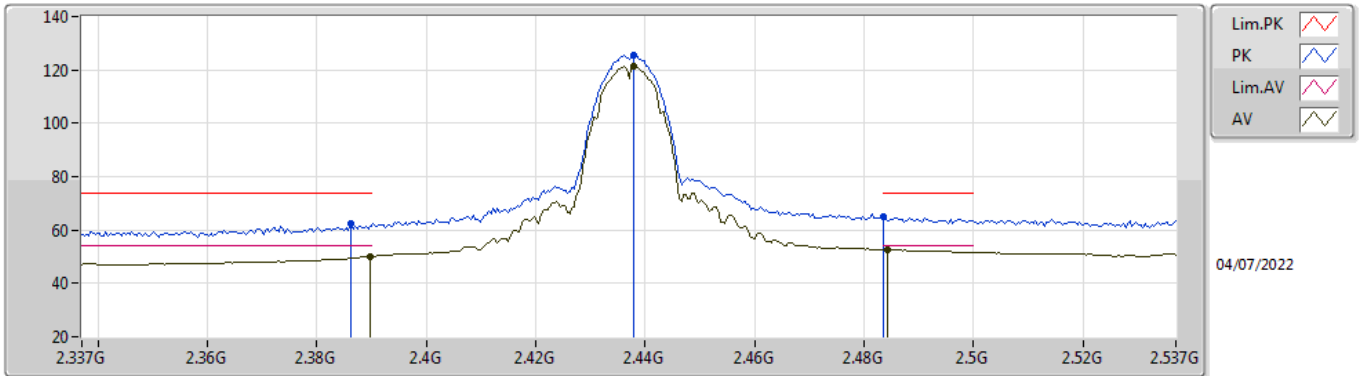
EUT Y\_3TX  
Setting 103  
06-F-S-5

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	4.82396G	47.32	74.00	-26.68	54.12	3	Horizontal	218	2.90	-	31.05	5.37	43.22
AV	4.824G	41.93	54.00	-12.07	48.73	3	Horizontal	218	2.90	-	31.05	5.37	43.22



### 802.11b\_Nss1,(1Mbps)\_3TX

### 2437MHz\_TX

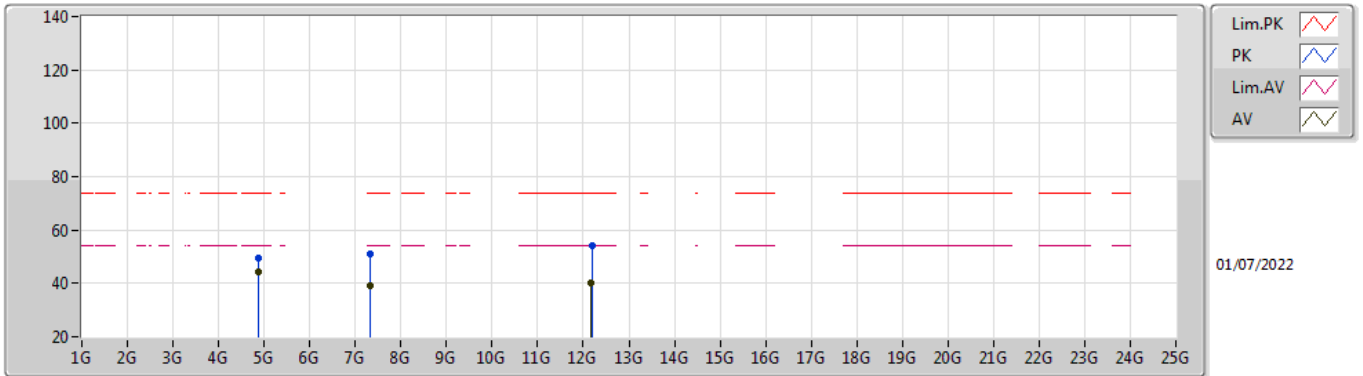


EUT\_V\_3TX  
Setting 108  
06-F-S-5

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	2.3862G	62.19	74.00	-11.81	30.80	3	Vertical	338	1.42	-	27.51	3.88	-
AV	2.3898G	50.07	54.00	-3.93	18.70	3	Vertical	338	1.42	-	27.48	3.89	-
PK	2.4378G	125.56	Inf	-Inf	94.40	3	Vertical	338	1.42	-	27.25	3.91	-
AV	2.4378G	121.37	Inf	-Inf	90.21	3	Vertical	338	1.42	-	27.25	3.91	-
PK	2.4835G	65.10	74.00	-8.90	33.92	3	Vertical	338	1.42	-	27.27	3.91	-
AV	2.4842G	52.66	54.00	-1.34	21.48	3	Vertical	338	1.42	-	27.27	3.91	-

### 802.11b\_Nss1,(1Mbps)\_3TX

### 2437MHz\_TX

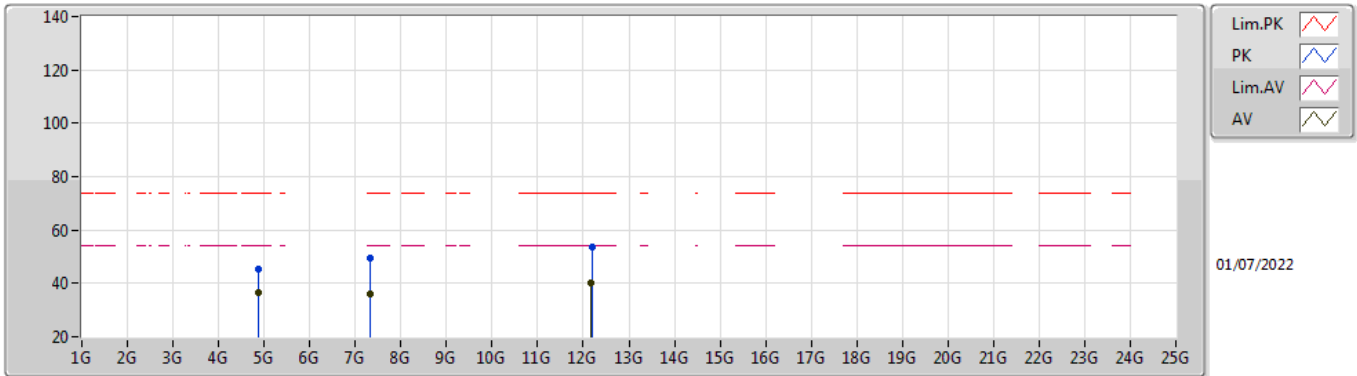


EUT\_V\_3TX  
Setting 108  
06-F-S-5

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	4.87396G	49.65	74.00	-24.35	56.41	3	Vertical	178	3.00	-	31.05	5.39	43.20
AV	4.87396G	44.23	54.00	-9.77	50.99	3	Vertical	178	3.00	-	31.05	5.39	43.20
PK	7.31188G	50.78	74.00	-23.22	49.75	3	Vertical	6	2.07	-	36.35	6.70	42.02
AV	7.31174G	38.92	54.00	-15.08	37.89	3	Vertical	6	2.07	-	36.35	6.70	42.02
PK	12.18706G	54.16	74.00	-19.84	48.94	3	Vertical	150	1.80	-	38.74	9.21	42.73
AV	12.18218G	40.01	54.00	-13.99	34.78	3	Vertical	150	1.80	-	38.75	9.21	42.73

### 802.11b\_Nss1,(1Mbps)\_3TX

### 2437MHz\_TX

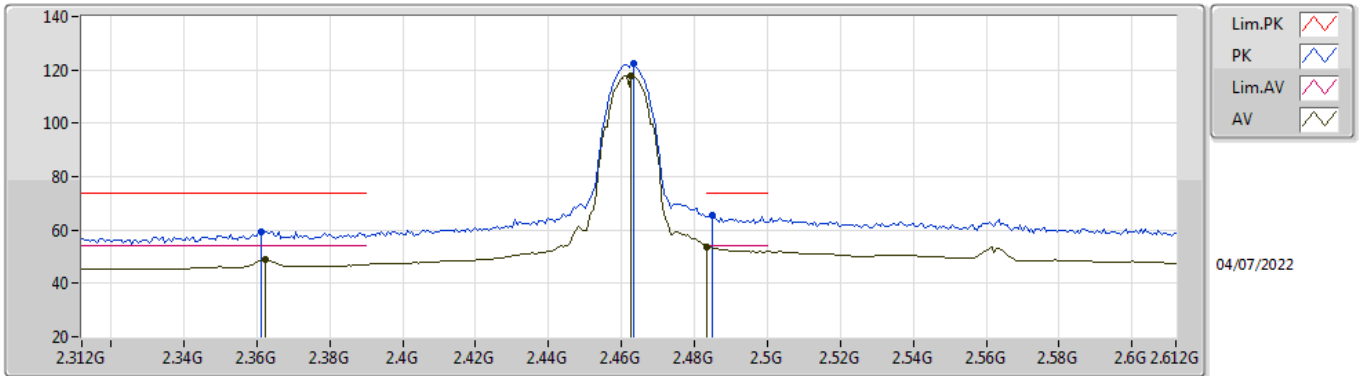


EUT\_V\_3TX  
Setting 108  
06-F-S-5

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	4.87392G	45.30	74.00	-28.70	52.06	3	Horizontal	223	1.77	-	31.05	5.39	43.20
AV	4.87394G	36.60	54.00	-17.40	43.36	3	Horizontal	223	1.77	-	31.05	5.39	43.20
PK	7.31168G	49.41	74.00	-24.59	48.38	3	Horizontal	262	1.80	-	36.35	6.70	42.02
AV	7.3118G	36.09	54.00	-17.91	35.06	3	Horizontal	262	1.80	-	36.35	6.70	42.02
PK	12.18298G	53.82	74.00	-20.18	48.59	3	Horizontal	304	2.79	-	38.75	9.21	42.73
AV	12.18228G	40.07	54.00	-13.93	34.84	3	Horizontal	304	2.79	-	38.75	9.21	42.73

### 802.11b\_Nss1,(1Mbps)\_3TX

### 2462MHz\_TX

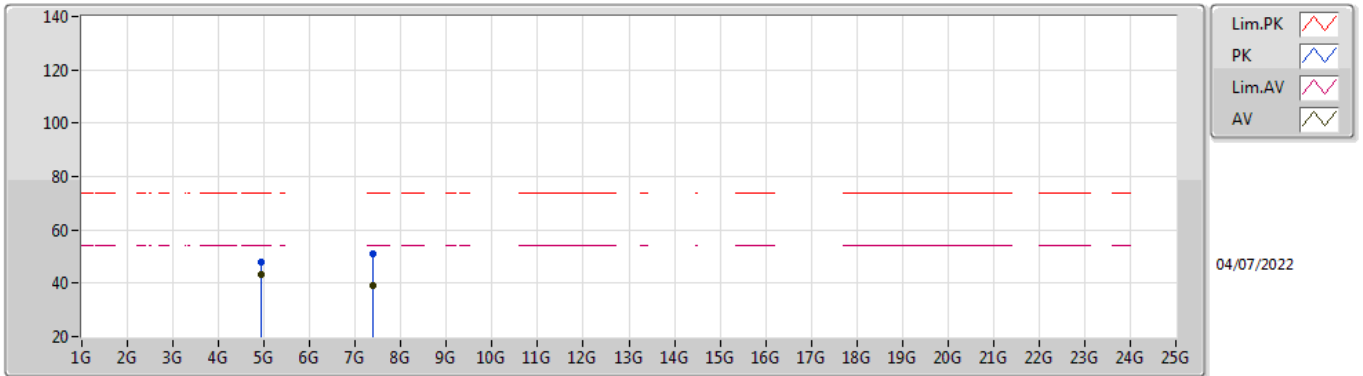


EUT\_V\_3TX  
Setting 98  
06-F-S-5

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	2.3612G	59.45	74.00	-14.55	27.89	3	Vertical	72	1.80	-	27.71	3.85	-
AV	2.3624G	48.71	54.00	-5.29	17.16	3	Vertical	72	1.80	-	27.70	3.85	-
PK	2.4632G	122.28	Inf	-Inf	91.14	3	Vertical	72	1.80	-	27.23	3.91	-
AV	2.4626G	118.01	Inf	-Inf	86.87	3	Vertical	72	1.80	-	27.23	3.91	-
PK	2.4848G	65.40	74.00	-8.60	34.22	3	Vertical	72	1.80	-	27.27	3.91	-
AV	2.4835G	53.86	54.00	-0.14	22.68	3	Vertical	72	1.80	-	27.27	3.91	-

### 802.11b\_Nss1,(1Mbps)\_3TX

### 2462MHz\_TX

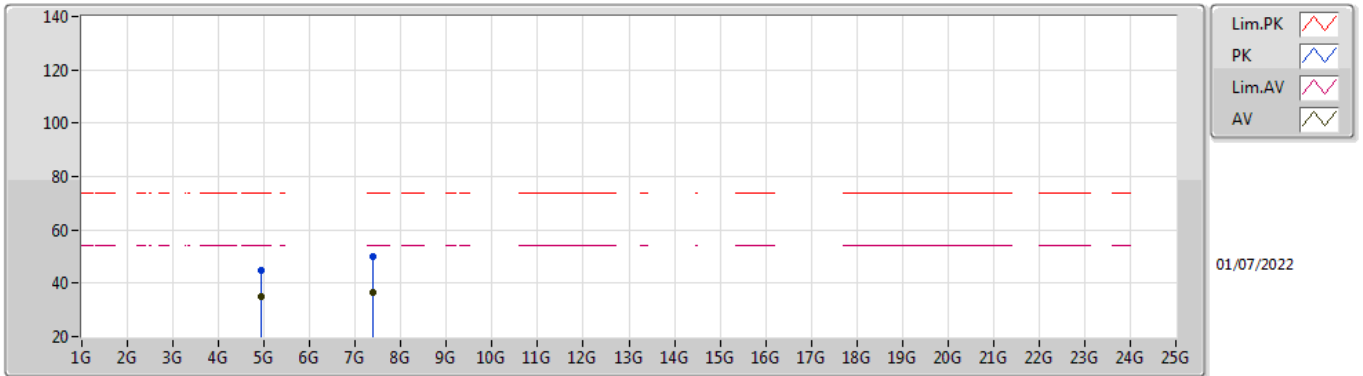


EUT Y\_3TX  
Setting 98  
06-F-S-5

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	4.924G	47.86	74.00	-26.14	54.44	3	Vertical	165	2.94	-	31.20	5.40	43.18
AV	4.92398G	43.05	54.00	-10.95	49.63	3	Vertical	165	2.94	-	31.20	5.40	43.18
PK	7.38492G	50.93	74.00	-23.07	50.11	3	Vertical	336	1.80	-	36.06	6.76	42.00
AV	7.38526G	38.88	54.00	-15.12	38.06	3	Vertical	336	1.80	-	36.06	6.76	42.00

### 802.11b\_Nss1,(1Mbps)\_3TX

### 2462MHz\_TX

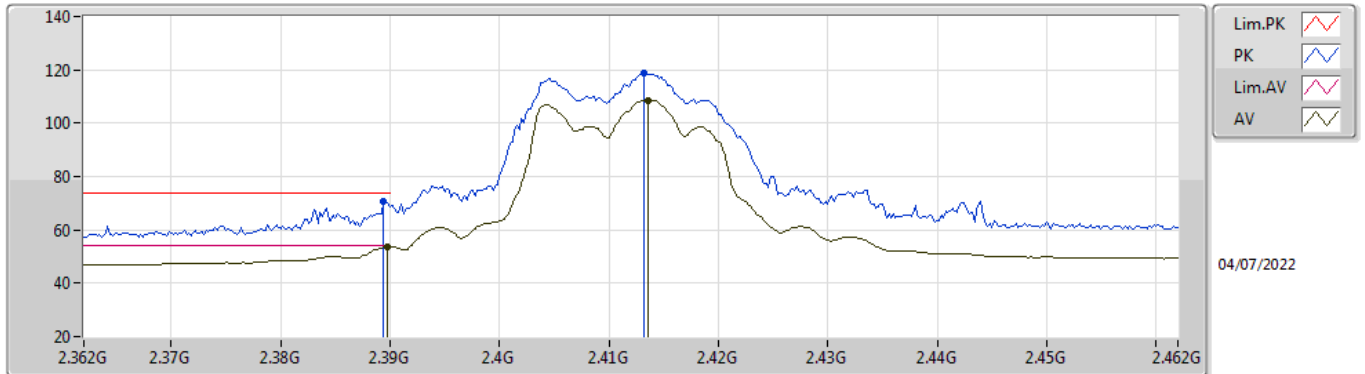


EUT Y\_3TX  
Setting 98  
06-F-S-5

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	4.92386G	44.88	74.00	-29.12	51.46	3	Horizontal	214	1.80	-	31.20	5.40	43.18
AV	4.92398G	34.96	54.00	-19.04	41.54	3	Horizontal	214	1.80	-	31.20	5.40	43.18
PK	7.3852G	50.25	74.00	-23.75	49.43	3	Horizontal	305	2.57	-	36.06	6.76	42.00
AV	7.38468G	36.39	54.00	-17.61	35.57	3	Horizontal	305	2.57	-	36.06	6.76	42.00

### 802.11g\_Nss1,(6Mbps)\_3TX

### 2412MHz\_TX

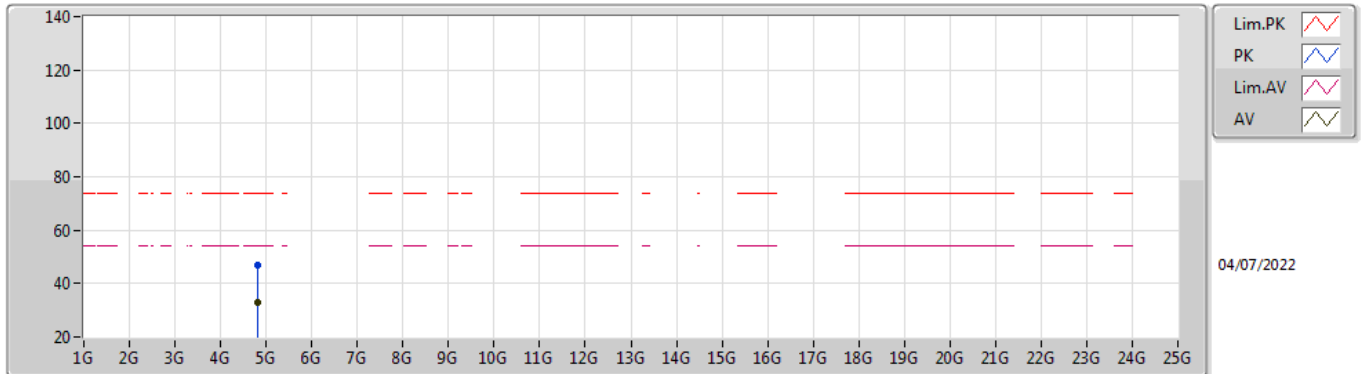


EUT Y\_3TX  
Setting 81  
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	70.86	74.00	-3.14	39.49	3	Vertical	331	1.80	-	27.48	3.89	-
AV	2.3898G	53.68	54.00	-0.32	22.31	3	Vertical	331	1.80	-	27.48	3.89	-
PK	2.4132G	118.67	Inf	-Inf	87.42	3	Vertical	331	1.80	-	27.35	3.90	-
AV	2.4136G	108.68	Inf	-Inf	77.43	3	Vertical	331	1.80	-	27.35	3.90	-

### 802.11g\_Nss1,(6Mbps)\_3TX

### 2412MHz\_TX



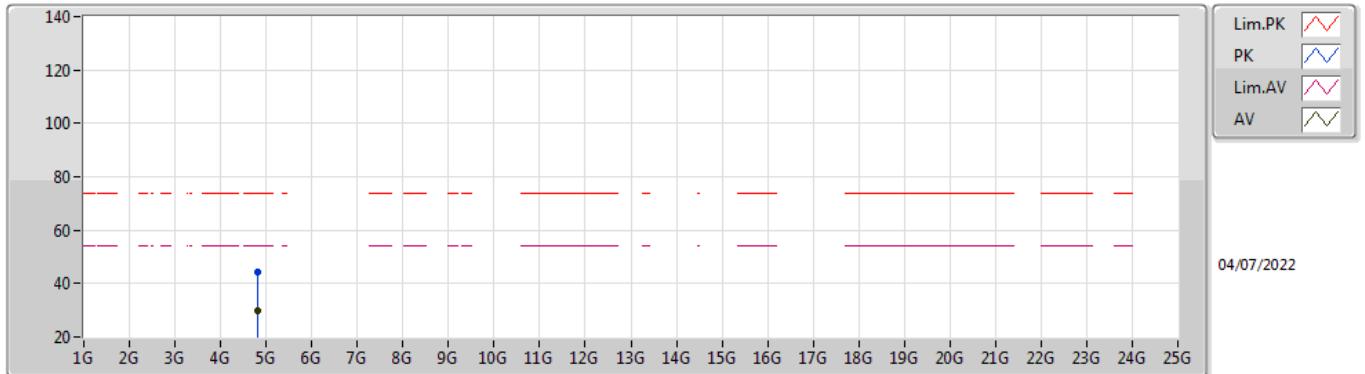
EUT Y\_3TX  
Setting 81  
06-F-S-5

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	4.82208G	46.76	74.00	-27.24	53.55	3	Vertical	207	2.94	-	31.06	5.37	43.22
AV	4.82124G	32.93	54.00	-21.07	39.72	3	Vertical	207	2.94	-	31.06	5.37	43.22



### 802.11g\_Nss1,(6Mbps)\_3TX

### 2412MHz\_TX

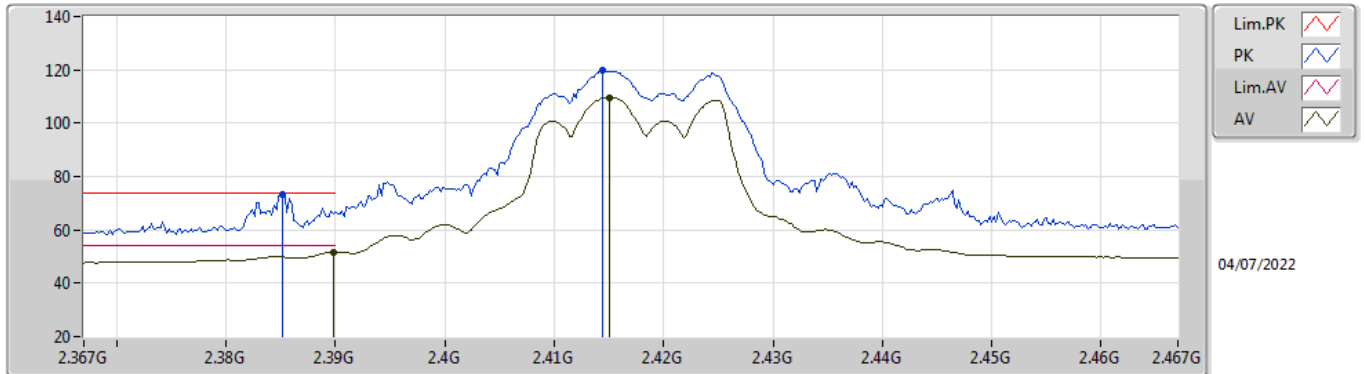


EUT Y\_3TX  
Setting 81  
06-F-S-5

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	4.81748G	44.50	74.00	-29.50	51.28	3	Horizontal	106	2.37	-	31.07	5.37	43.22
AV	4.81744G	29.91	54.00	-24.09	36.69	3	Horizontal	106	2.37	-	31.07	5.37	43.22

### 802.11g\_Nss1,(6Mbps)\_3TX

### 2417MHz\_TX

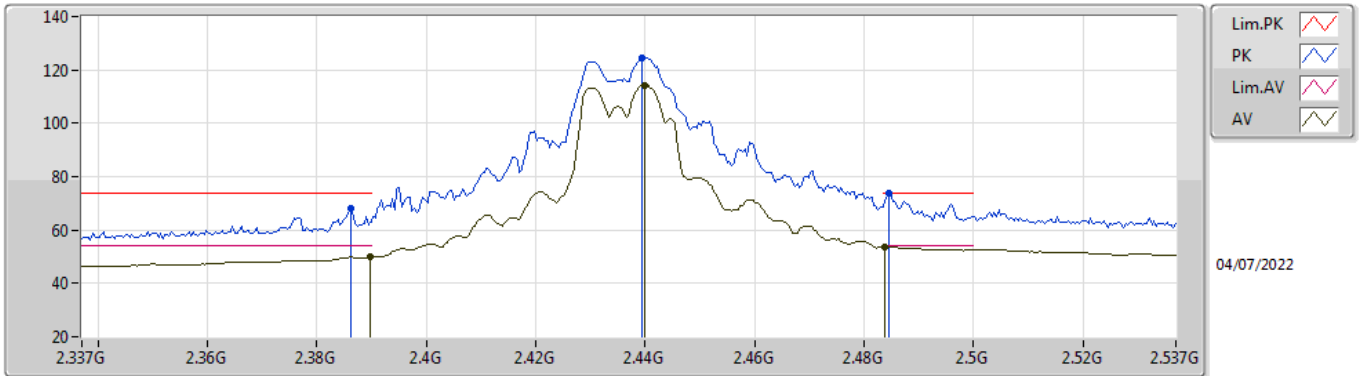


EUT Y\_3TX  
Setting 85  
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3852G	73.27	74.00	-0.73	41.87	3	Vertical	345	1.80	-	27.52	3.88	-
AV	2.3898G	51.59	54.00	-2.41	20.22	3	Vertical	345	1.80	-	27.48	3.89	-
PK	2.4144G	119.85	Inf	-Inf	88.61	3	Vertical	345	1.80	-	27.34	3.90	-
AV	2.415G	109.69	Inf	-Inf	78.45	3	Vertical	345	1.80	-	27.34	3.90	-

### 802.11g\_Nss1,(6Mbps)\_3TX

### 2437MHz\_TX

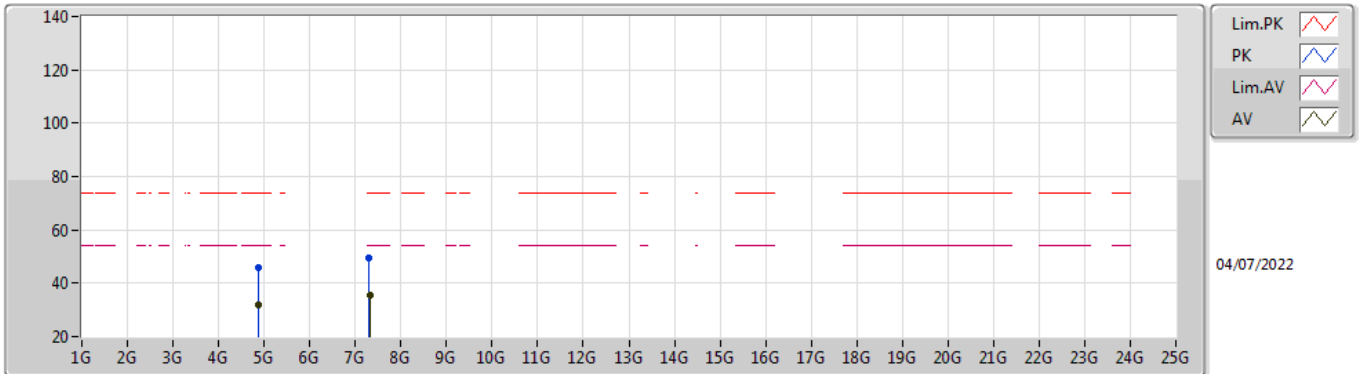


EUT\_V\_3TX  
Setting 102  
06-F-S-5

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	2.3862G	67.96	74.00	-6.04	36.57	3	Vertical	280	1.80	-	27.51	3.88	-
AV	2.3898G	49.99	54.00	-4.01	18.62	3	Vertical	280	1.80	-	27.48	3.89	-
PK	2.4394G	124.29	Inf	-Inf	93.14	3	Vertical	280	1.80	-	27.24	3.91	-
AV	2.4398G	114.37	Inf	-Inf	83.22	3	Vertical	280	1.80	-	27.24	3.91	-
PK	2.4846G	73.94	74.00	-0.06	42.76	3	Vertical	280	1.80	-	27.27	3.91	-
AV	2.4838G	53.82	54.00	-0.18	22.64	3	Vertical	280	1.80	-	27.27	3.91	-

### 802.11g\_Nss1,(6Mbps)\_3TX

### 2437MHz\_TX

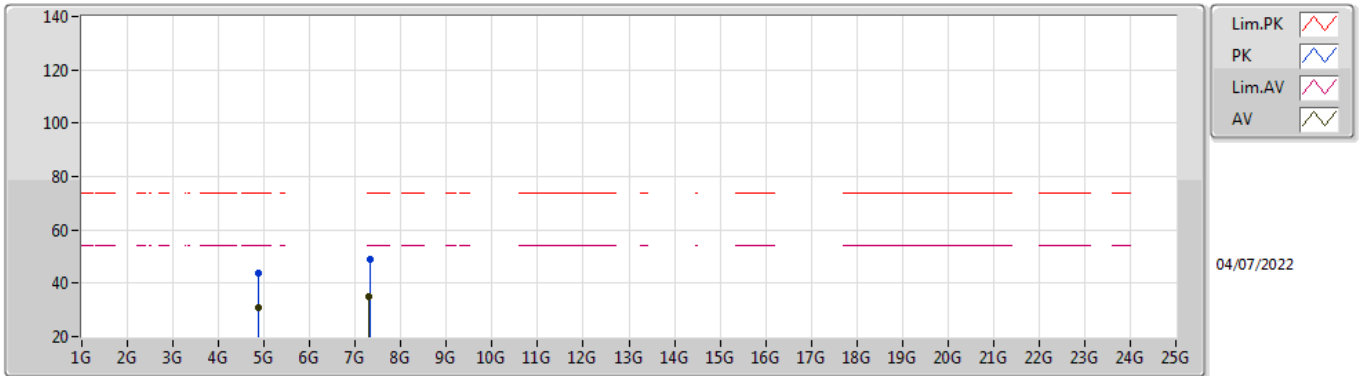


EUT Y\_3TX  
Setting 102  
06-F-S-5

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	4.8706G	46.12	74.00	-27.88	52.90	3	Vertical	22	1.76	-	31.04	5.38	43.20
AV	4.87056G	32.06	54.00	-21.94	38.84	3	Vertical	22	1.76	-	31.04	5.38	43.20
PK	7.30956G	49.57	74.00	-24.43	48.53	3	Vertical	336	1.80	-	36.36	6.70	42.02
AV	7.31192G	35.67	54.00	-18.33	34.64	3	Vertical	336	1.80	-	36.35	6.70	42.02

### 802.11g\_Nss1,(6Mbps)\_3TX

### 2437MHz\_TX

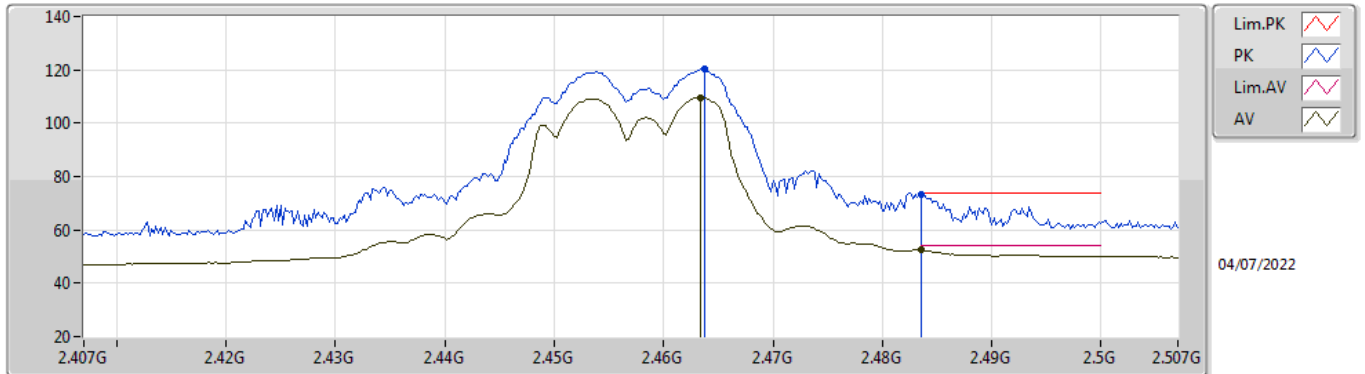


EUT Y\_3TX  
Setting 102  
06-F-S-5

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	4.87072G	44.00	74.00	-30.00	50.78	3	Horizontal	228	1.80	-	31.04	5.38	43.20
AV	4.87084G	30.70	54.00	-23.30	37.48	3	Horizontal	228	1.80	-	31.04	5.38	43.20
PK	7.31636G	48.72	74.00	-25.28	47.71	3	Horizontal	58	1.80	-	36.33	6.70	42.02
AV	7.3098G	35.19	54.00	-18.81	34.15	3	Horizontal	58	1.80	-	36.36	6.70	42.02

### 802.11g\_Nss1,(6Mbps)\_3TX

### 2457MHz\_TX

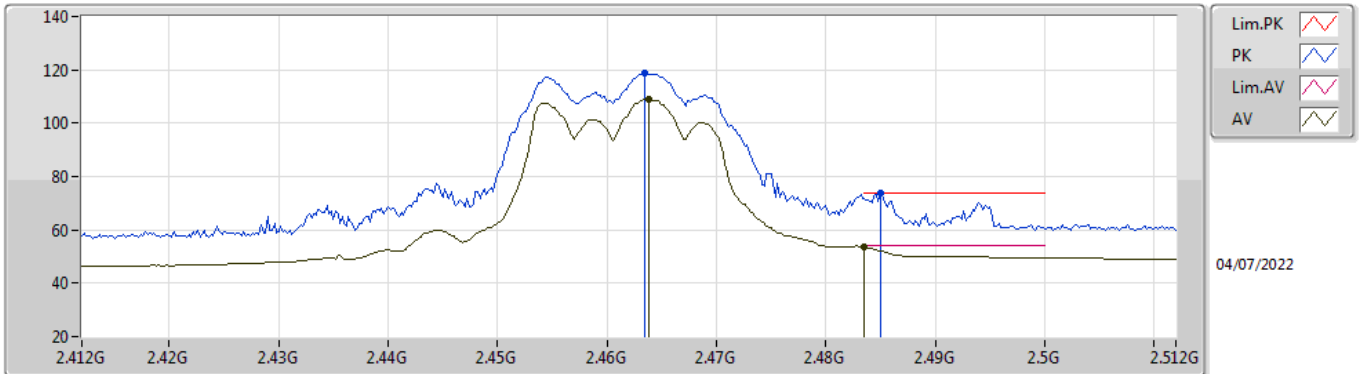


EUT Y\_3TX  
Setting 81  
06-F-S-5

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	2.4638G	120.41	Inf	-Inf	89.27	3	Vertical	63	1.80	-	27.23	3.91	-
AV	2.4634G	109.57	Inf	-Inf	78.43	3	Vertical	63	1.80	-	27.23	3.91	-
PK	2.4835G	73.38	74.00	-0.62	42.20	3	Vertical	63	1.80	-	27.27	3.91	-
AV	2.4835G	52.56	54.00	-1.44	21.38	3	Vertical	63	1.80	-	27.27	3.91	-

### 802.11g\_Nss1,(6Mbps)\_3TX

### 2462MHz\_TX

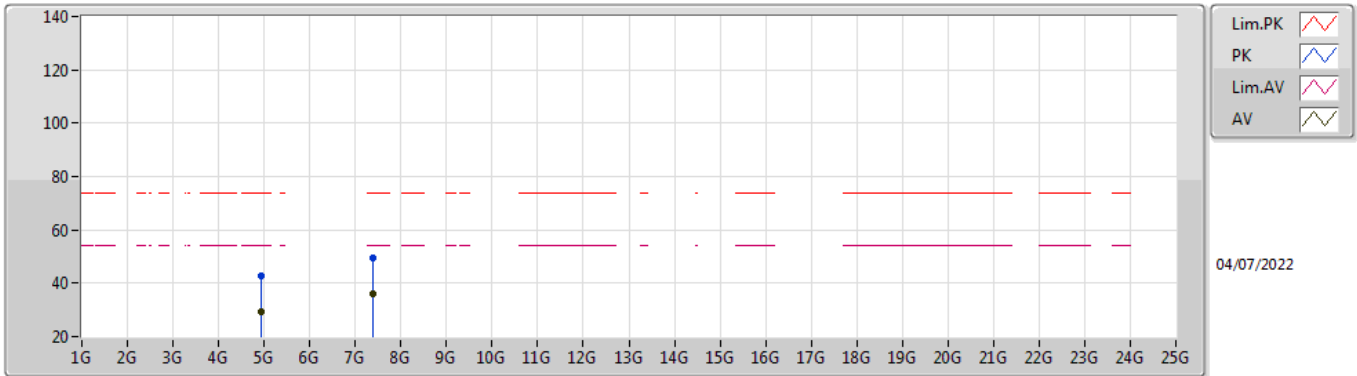


EUT\_V\_3TX  
Setting 78  
06-F-S-5

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	2.4634G	118.89	Inf	-Inf	87.75	3	Vertical	55	1.80	-	27.23	3.91	-
AV	2.4638G	108.95	Inf	-Inf	77.81	3	Vertical	55	1.80	-	27.23	3.91	-
PK	2.485G	73.75	74.00	-0.25	42.57	3	Vertical	55	1.80	-	27.27	3.91	-
AV	2.4835G	53.60	54.00	-0.40	22.42	3	Vertical	55	1.80	-	27.27	3.91	-

### 802.11g\_Nss1,(6Mbps)\_3TX

### 2462MHz\_TX



EUT Y\_3TX  
Setting 78  
06-F-S-5

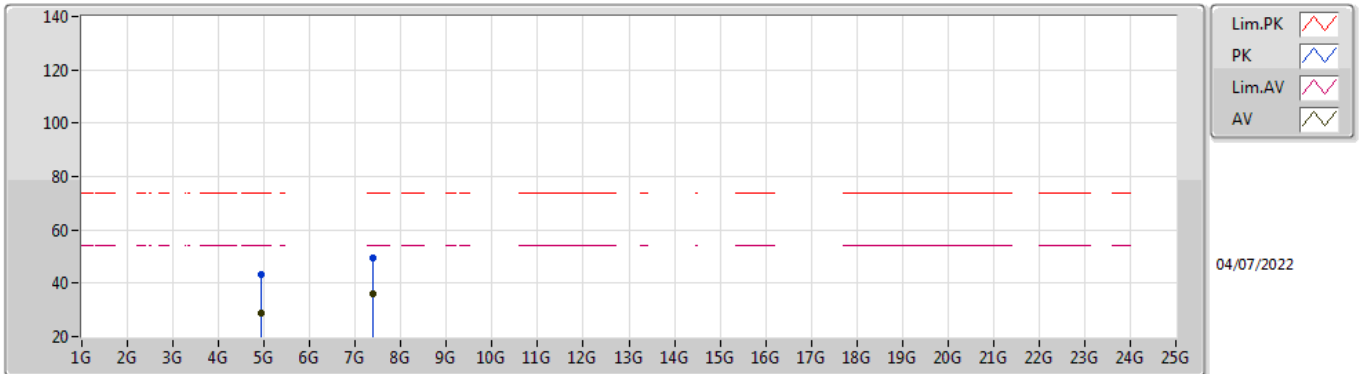
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.926G	42.71	74.00	-31.29	49.29	3	Vertical	39	1.83	-	31.20	5.40	43.18
AV	4.9232G	29.11	54.00	-24.89	35.70	3	Vertical	39	1.83	-	31.19	5.40	43.18
PK	7.39236G	49.58	74.00	-24.42	48.79	3	Vertical	253	1.00	-	36.03	6.76	42.00
AV	7.38448G	35.88	54.00	-18.12	35.06	3	Vertical	253	1.00	-	36.06	6.76	42.00





### 802.11g\_Nss1,(6Mbps)\_3TX

### 2462MHz\_TX

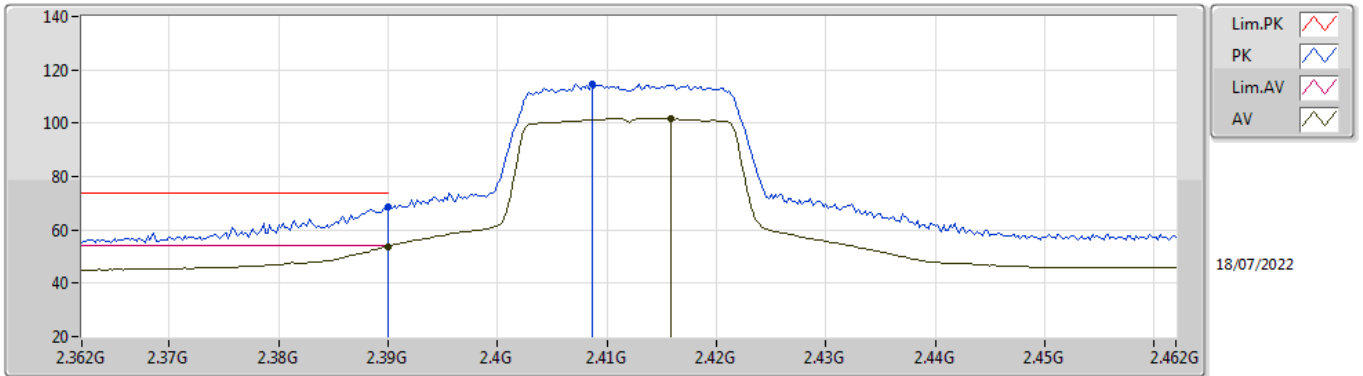


EUT Y\_3TX  
Setting 78  
06-F-S-5

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	4.93028G	43.34	74.00	-30.66	49.89	3	Horizontal	6	1.10	-	31.22	5.41	43.18
AV	4.929G	28.98	54.00	-25.02	35.53	3	Horizontal	6	1.10	-	31.22	5.41	43.18
PK	7.39268G	49.53	74.00	-24.47	48.74	3	Horizontal	282	1.91	-	36.03	6.76	42.00
AV	7.38376G	35.82	54.00	-18.18	35.00	3	Horizontal	282	1.91	-	36.06	6.76	42.00

### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### 2412MHz\_TX

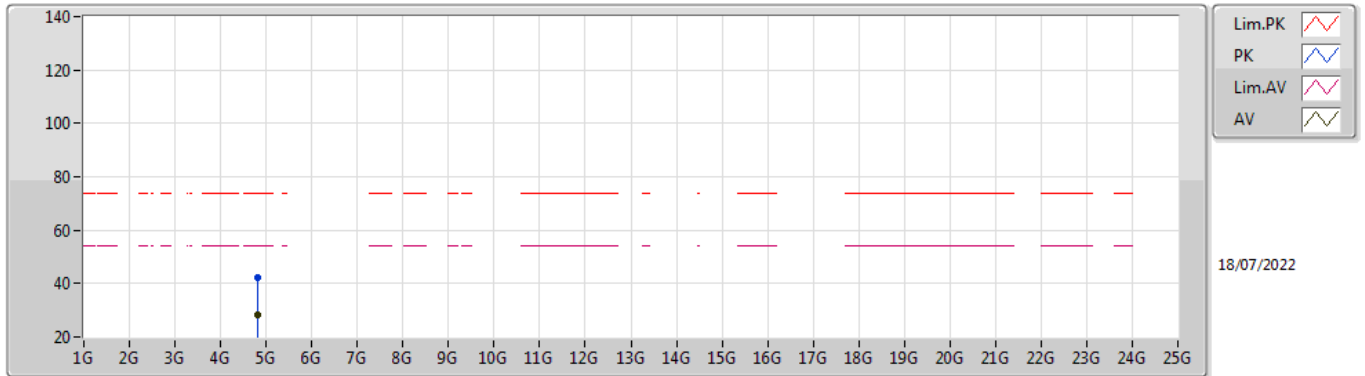


EUT\_V\_3TX  
Setting 74  
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	68.53	74.00	-5.47	37.16	3	Vertical	360	1.45	-	27.48	3.89	-
AV	2.39G	53.66	54.00	-0.34	22.29	3	Vertical	360	1.45	-	27.48	3.89	-
PK	2.4086G	114.75	Inf	-Inf	83.48	3	Vertical	360	1.45	-	27.37	3.90	-
AV	2.4158G	101.90	Inf	-Inf	70.66	3	Vertical	360	1.45	-	27.34	3.90	-

### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### 2412MHz\_TX

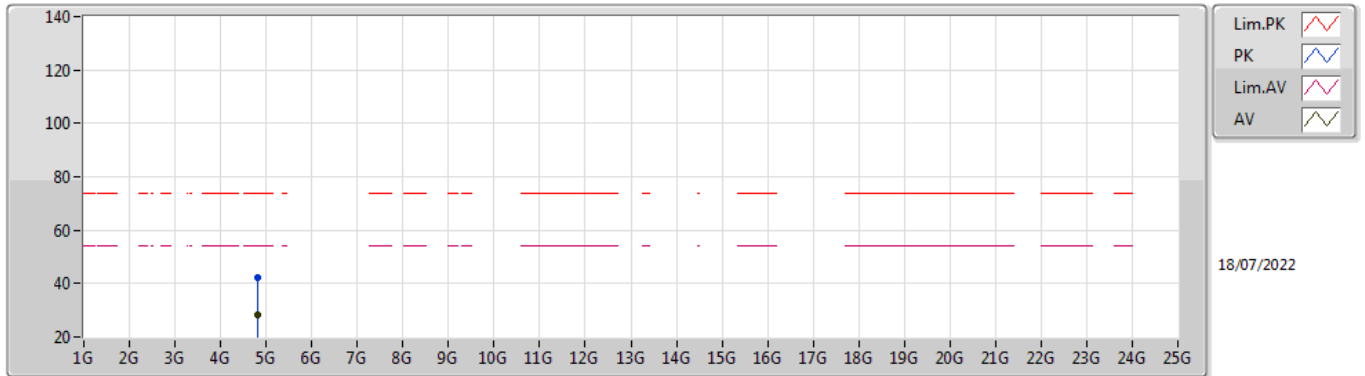


EUT Y\_3TX  
Setting 74  
06-F-S-5

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	4.8195G	42.43	74.00	-31.57	49.22	3	Vertical	126	1.25	-	31.06	5.37	43.22
AV	4.8235G	28.23	54.00	-25.77	35.03	3	Vertical	126	1.25	-	31.05	5.37	43.22

### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### 2412MHz\_TX

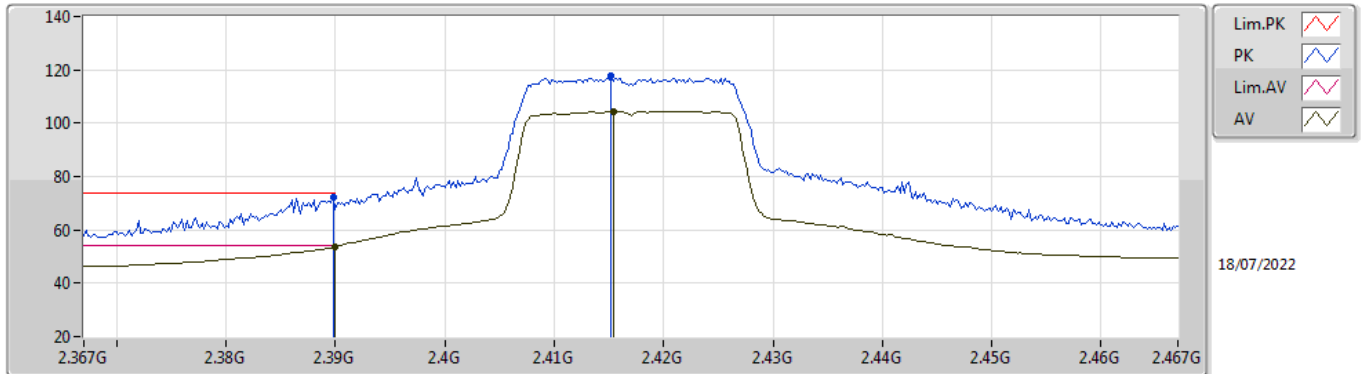


EUT Y\_3TX  
Setting 74  
06-F-S-5

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	4.82578G	42.12	74.00	-31.88	48.92	3	Horizontal	125	1.81	-	31.05	5.37	43.22
AV	4.82698G	28.25	54.00	-25.75	35.05	3	Horizontal	125	1.81	-	31.05	5.37	43.22

### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### 2417MHz\_TX

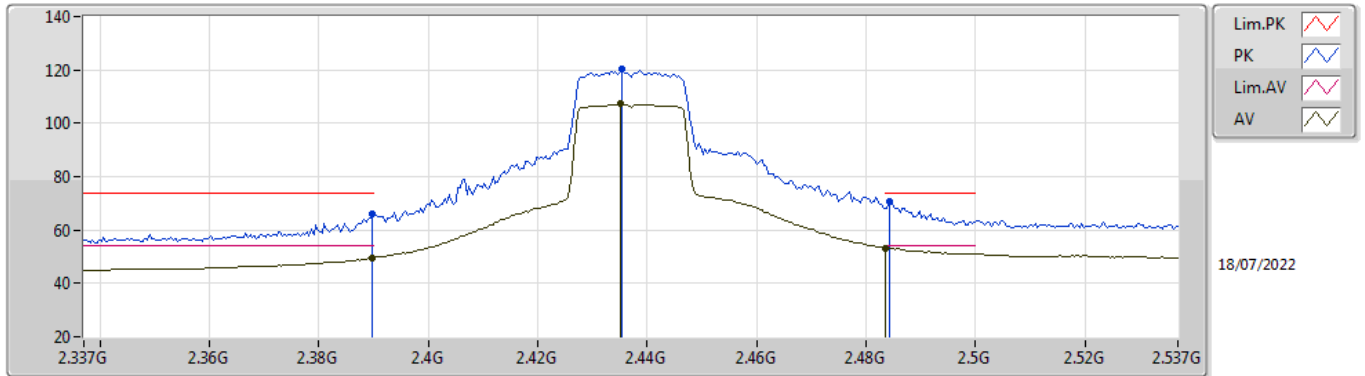


EUT Y\_3TX  
Setting 87  
06-F-S-5

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	72.00	74.00	-2.00	40.63	3	Vertical	295	1.90	-	27.48	3.89	-
AV	2.39G	53.69	54.00	-0.31	22.32	3	Vertical	295	1.90	-	27.48	3.89	-
PK	2.4152G	117.58	Inf	-Inf	86.34	3	Vertical	295	1.90	-	27.34	3.90	-
AV	2.4154G	104.41	Inf	-Inf	73.17	3	Vertical	295	1.90	-	27.34	3.90	-

### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### 2437MHz\_TX

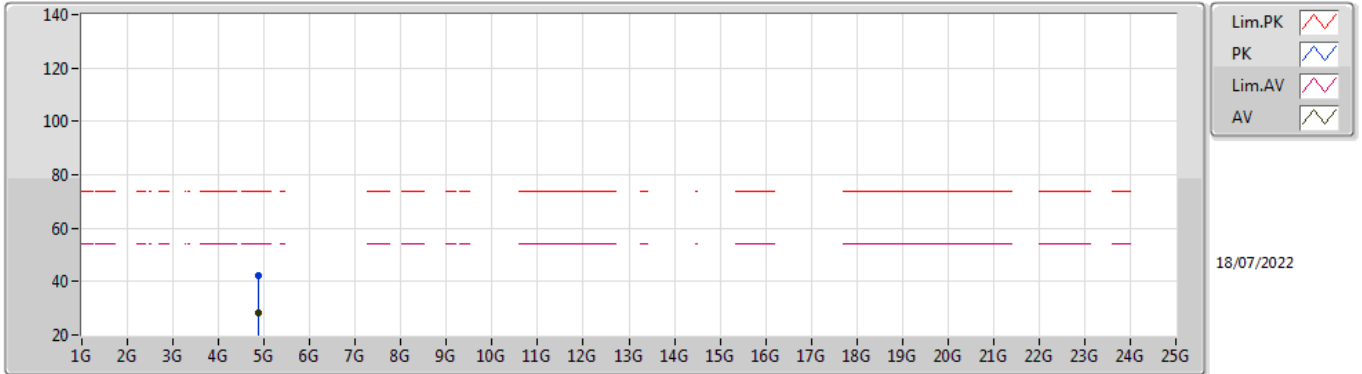


EUT Y\_3TX  
Setting 99  
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	65.94	74.00	-8.06	34.57	3	Vertical	299	1.79	-	27.48	3.89	-
AV	2.3898G	49.50	54.00	-4.50	18.13	3	Vertical	299	1.79	-	27.48	3.89	-
PK	2.4354G	120.55	Inf	-Inf	89.38	3	Vertical	299	1.79	-	27.26	3.91	-
AV	2.435G	107.32	Inf	-Inf	76.15	3	Vertical	299	1.79	-	27.26	3.91	-
PK	2.4842G	70.63	74.00	-3.37	39.45	3	Vertical	299	1.79	-	27.27	3.91	-
AV	2.4835G	53.32	54.00	-0.68	22.14	3	Vertical	299	1.79	-	27.27	3.91	-

### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### 2437MHz\_TX

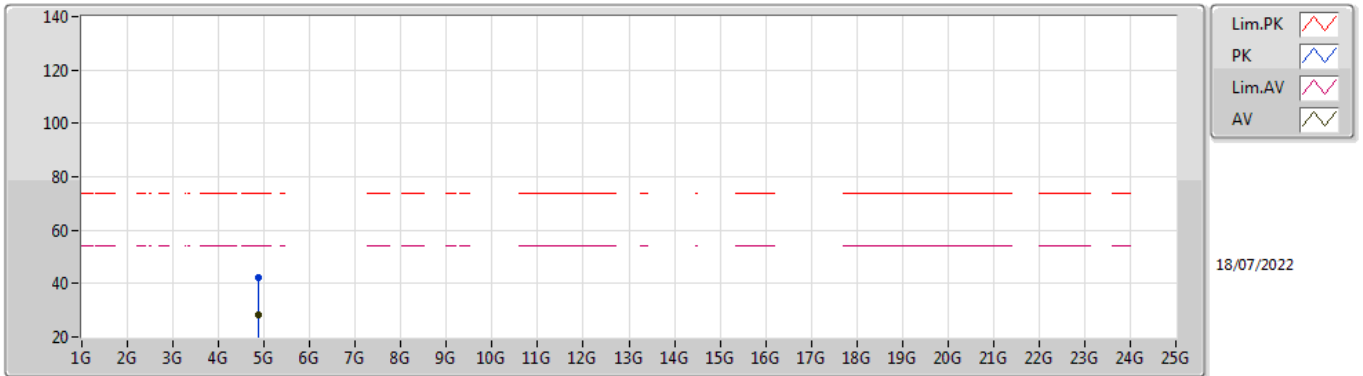


EUT Y\_3TX  
Setting 99  
06-F-S-5

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	4.87874G	42.22	74.00	-31.78	48.97	3	Vertical	280	2.23	-	31.06	5.39	43.20
AV	4.87788G	28.32	54.00	-25.68	35.07	3	Vertical	280	2.23	-	31.06	5.39	43.20

### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### 2437MHz\_TX



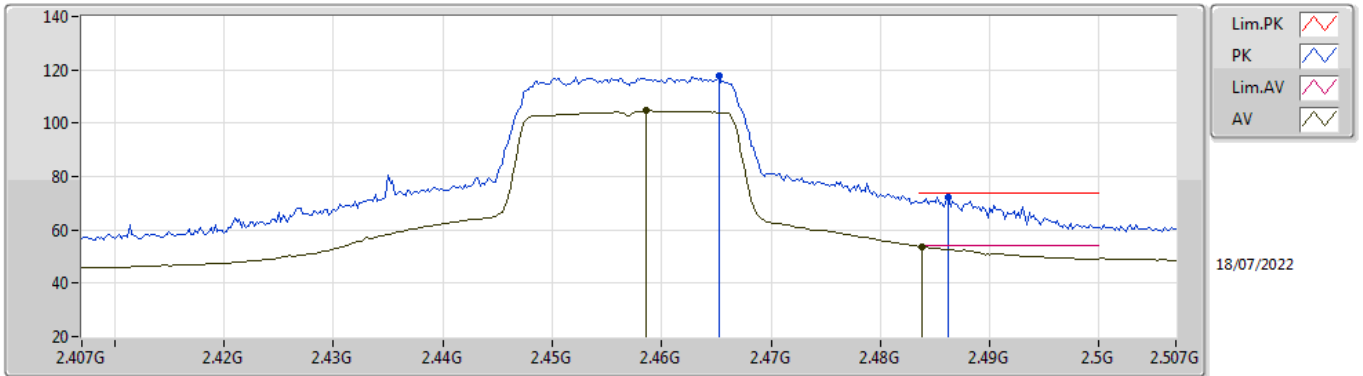
EUT Y\_3TX  
Setting 99  
06-F-S-5

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	4.87736G	42.15	74.00	-31.85	48.91	3	Horizontal	9	1.88	-	31.05	5.39	43.20
AV	4.87842G	28.38	54.00	-25.62	35.13	3	Horizontal	9	1.88	-	31.06	5.39	43.20



### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### 2457MHz\_TX

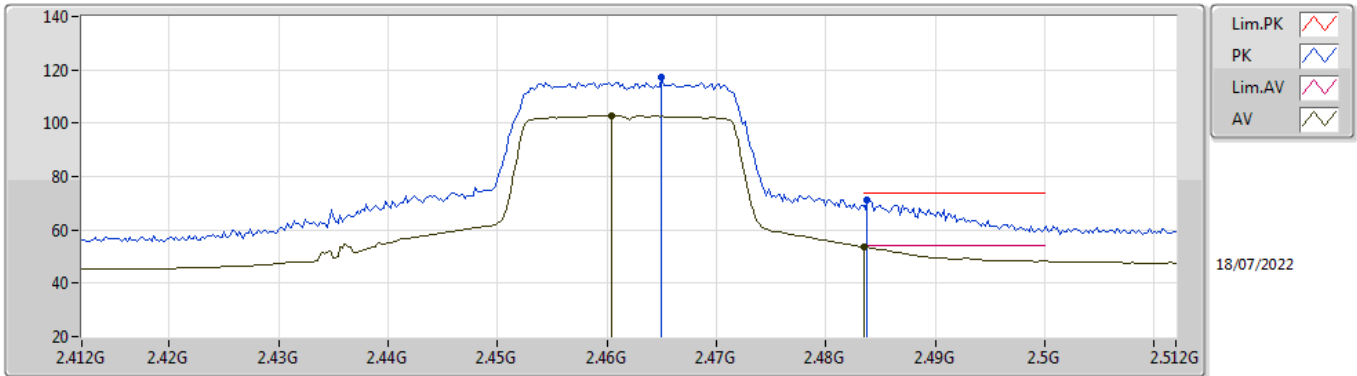


EUT Y\_3TX  
Setting 84  
06-F-S-5

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	2.4652G	117.86	Inf	-Inf	86.72	3	Vertical	264	1.80	-	27.23	3.91	-
AV	2.4586G	104.79	Inf	-Inf	73.66	3	Vertical	264	1.80	-	27.22	3.91	-
PK	2.4862G	72.15	74.00	-1.85	40.97	3	Vertical	264	1.80	-	27.27	3.91	-
AV	2.4838G	53.59	54.00	-0.41	22.41	3	Vertical	264	1.80	-	27.27	3.91	-

### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### 2462MHz\_TX

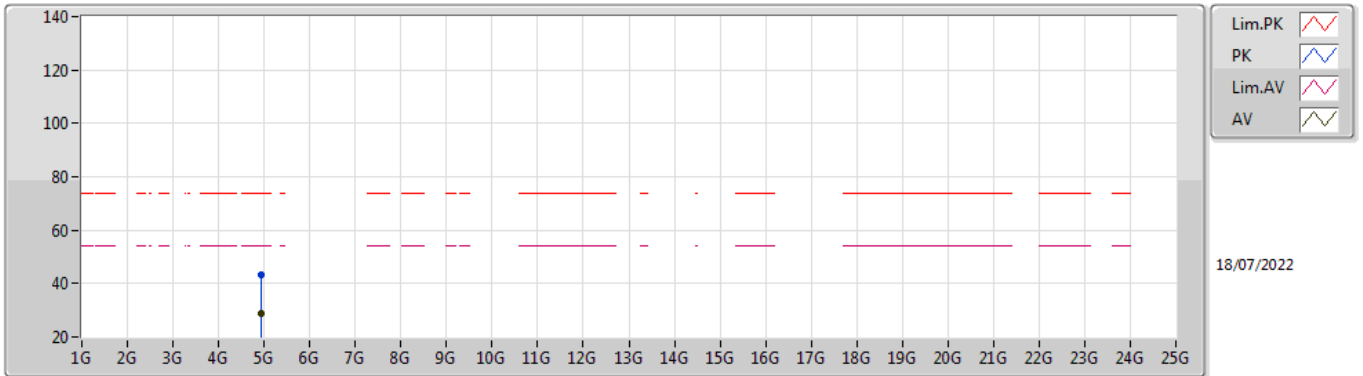


EUT Y\_3TX  
Setting 78  
06-F-S-5

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	2.465G	117.01	Inf	-Inf	85.87	3	Vertical	263	1.80	-	27.23	3.91	-
AV	2.4604G	102.94	Inf	-Inf	71.81	3	Vertical	263	1.80	-	27.22	3.91	-
PK	2.4838G	71.07	74.00	-2.93	39.89	3	Vertical	263	1.80	-	27.27	3.91	-
AV	2.4835G	53.56	54.00	-0.44	22.38	3	Vertical	263	1.80	-	27.27	3.91	-

### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### 2462MHz\_TX

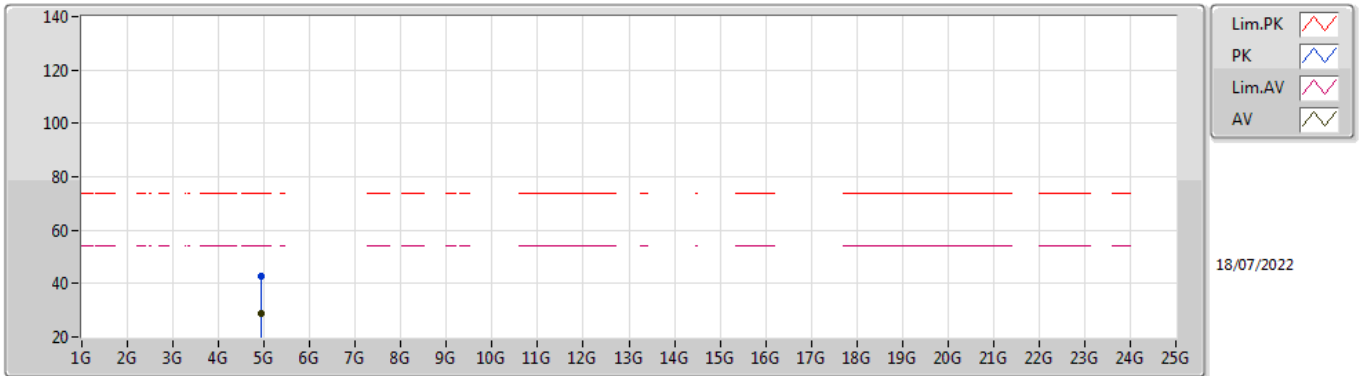


EUT Y\_3TX  
Setting 78  
06-F-S-5

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	4.92332G	43.09	74.00	-30.91	49.68	3	Vertical	48	2.59	-	31.19	5.40	43.18
AV	4.92782G	28.68	54.00	-25.32	35.25	3	Vertical	48	2.59	-	31.21	5.40	43.18

### 802.11ax HEW20\_Nss2,(MCS0)\_3TX

### 2462MHz\_TX

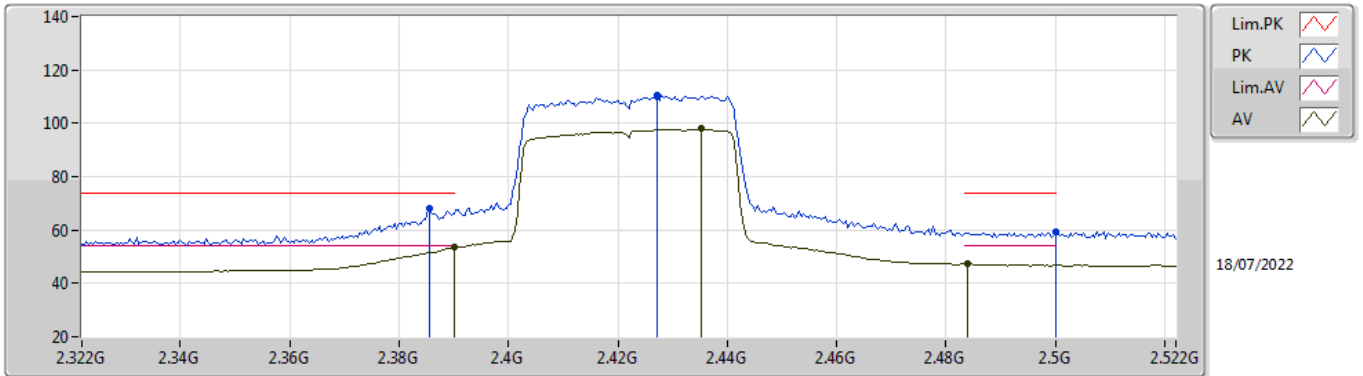


EUT Y\_3TX  
Setting 78  
06-F-S-5

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	4.92588G	42.61	74.00	-31.39	49.19	3	Horizontal	233	2.59	-	31.20	5.40	43.18
AV	4.92864G	28.65	54.00	-25.35	35.21	3	Horizontal	233	2.59	-	31.21	5.41	43.18

### 802.11ax HEW40\_Nss2,(MCS0)\_3TX

### 2422MHz\_TX

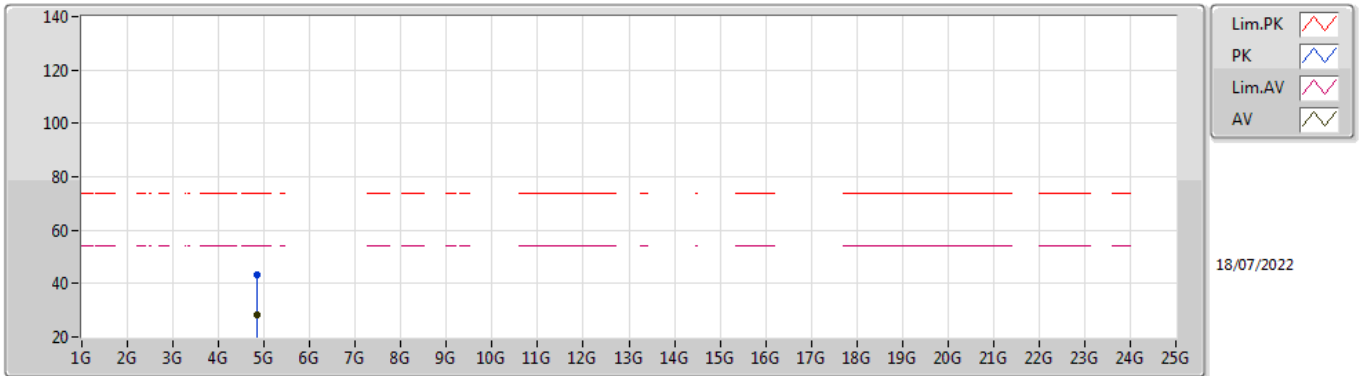


EUT\_V\_3TX  
Setting 71  
06-F-S-5

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	2.3856G	68.07	74.00	-5.93	36.67	3	Vertical	298	1.80	-	27.52	3.88	-
AV	2.39G	53.42	54.00	-0.58	22.05	3	Vertical	298	1.80	-	27.48	3.89	-
PK	2.4272G	110.47	Inf	-Inf	79.28	3	Vertical	298	1.80	-	27.29	3.90	-
AV	2.4352G	98.03	Inf	-Inf	66.86	3	Vertical	298	1.80	-	27.26	3.91	-
PK	2.5G	59.19	74.00	-14.81	27.97	3	Vertical	298	1.80	-	27.30	3.92	-
AV	2.484G	47.29	54.00	-6.71	16.11	3	Vertical	298	1.80	-	27.27	3.91	-

### 802.11ax HEW40\_Nss2,(MCS0)\_3TX

### 2422MHz\_TX

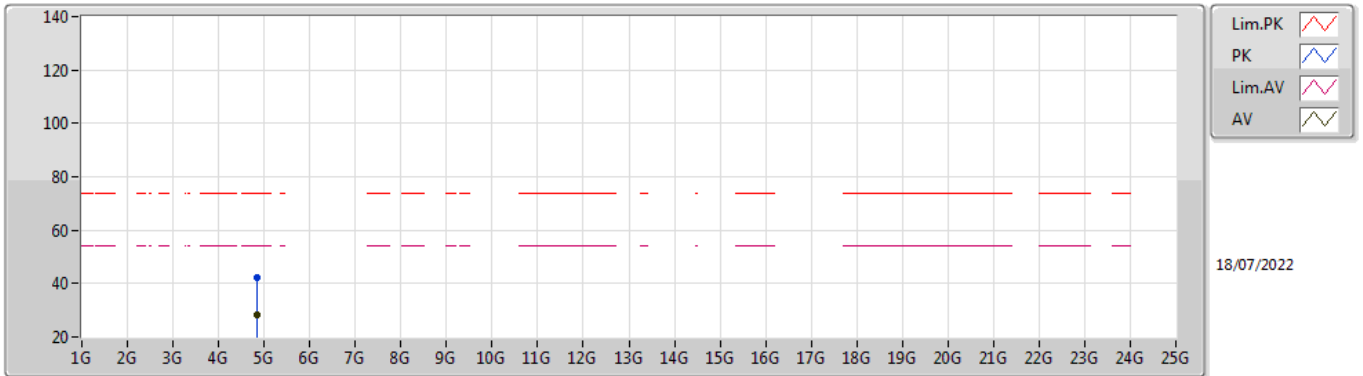


EUT Y\_3TX  
Setting 71  
06-F-S-5

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	4.84298G	43.03	74.00	-30.97	49.85	3	Vertical	271	1.03	-	31.01	5.38	43.21
AV	4.84298G	28.24	54.00	-25.76	35.06	3	Vertical	271	1.03	-	31.01	5.38	43.21

### 802.11ax HEW40\_Nss2,(MCS0)\_3TX

### 2422MHz\_TX

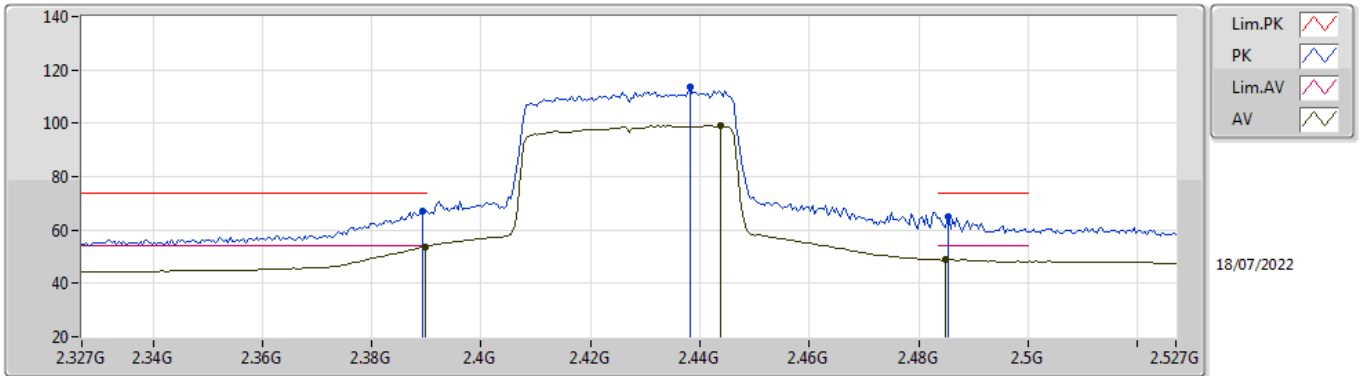


EUT Y\_3TX  
Setting 71  
06-F-S-5

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	4.84514G	42.39	74.00	-31.61	49.21	3	Horizontal	315	2.27	-	31.01	5.38	43.21
AV	4.84888G	28.33	54.00	-25.67	35.16	3	Horizontal	315	2.27	-	31.00	5.38	43.21

### 802.11ax HEW40\_Nss2,(MCS0)\_3TX

### 2427MHz\_TX



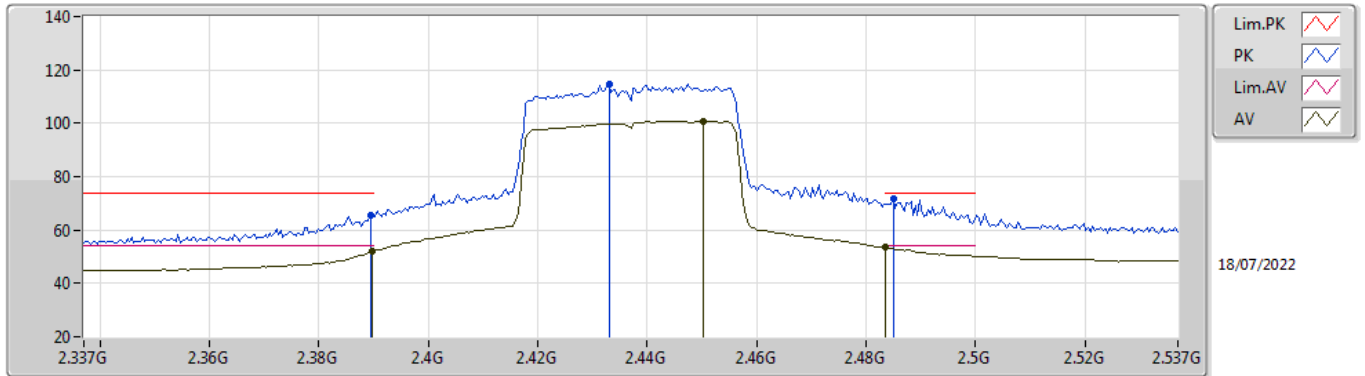
EUT\_V\_3TX  
Setting 76  
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	67.03	74.00	-6.97	35.66	3	Vertical	277	1.80	-	27.48	3.89	-
AV	2.3898G	53.72	54.00	-0.28	22.35	3	Vertical	277	1.80	-	27.48	3.89	-
PK	2.4382G	113.50	Inf	-Inf	82.34	3	Vertical	277	1.80	-	27.25	3.91	-
AV	2.4438G	98.97	Inf	-Inf	67.84	3	Vertical	277	1.80	-	27.22	3.91	-
PK	2.4854G	65.03	74.00	-8.97	33.85	3	Vertical	277	1.80	-	27.27	3.91	-
AV	2.485G	48.91	54.00	-5.09	17.73	3	Vertical	277	1.80	-	27.27	3.91	-



### 802.11ax HEW40\_Nss2,(MCS0)\_3TX

### 2437MHz\_TX

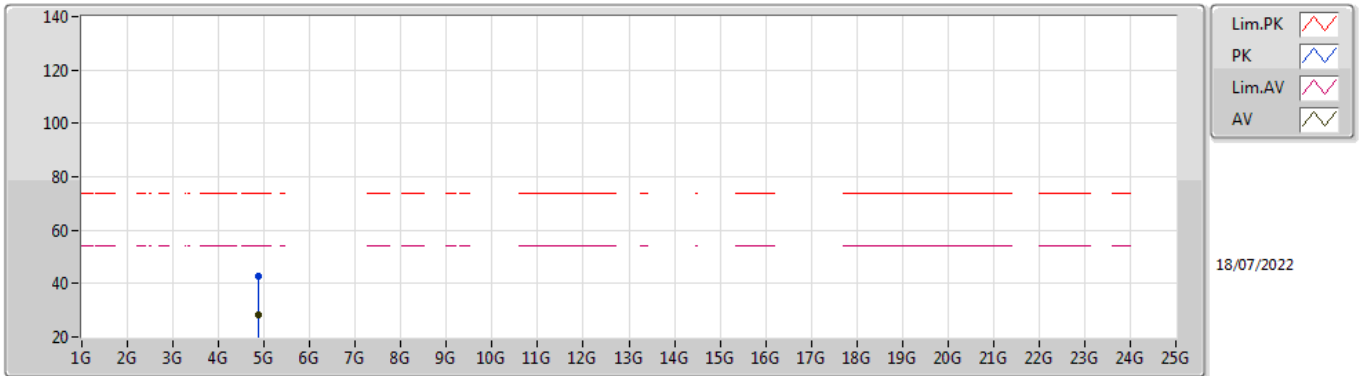


EUT\_V\_3TX  
Setting 83  
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	65.31	74.00	-8.69	33.94	3	Vertical	274	1.84	-	27.48	3.89	-
AV	2.3898G	51.94	54.00	-2.06	20.57	3	Vertical	274	1.84	-	27.48	3.89	-
PK	2.433G	114.63	Inf	-Inf	83.46	3	Vertical	274	1.84	-	27.27	3.90	-
AV	2.4502G	100.93	Inf	-Inf	69.82	3	Vertical	274	1.84	-	27.20	3.91	-
PK	2.485G	71.89	74.00	-2.11	40.71	3	Vertical	274	1.84	-	27.27	3.91	-
AV	2.4835G	53.49	54.00	-0.51	22.31	3	Vertical	274	1.84	-	27.27	3.91	-

### 802.11ax HEW40\_Nss2,(MCS0)\_3TX

### 2437MHz\_TX

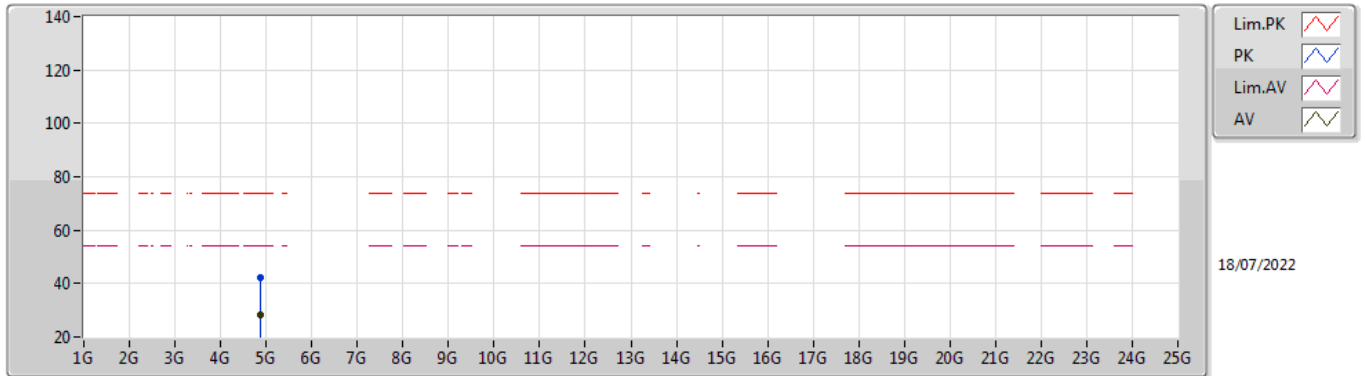


EUT Y\_3TX  
Setting 83  
06-F-S-5

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	4.87386G	42.57	74.00	-31.43	49.33	3	Vertical	342	2.00	-	31.05	5.39	43.20
AV	4.87398G	28.25	54.00	-25.75	35.01	3	Vertical	342	2.00	-	31.05	5.39	43.20

### 802.11ax HEW40\_Nss2,(MCS0)\_3TX

### 2437MHz\_TX

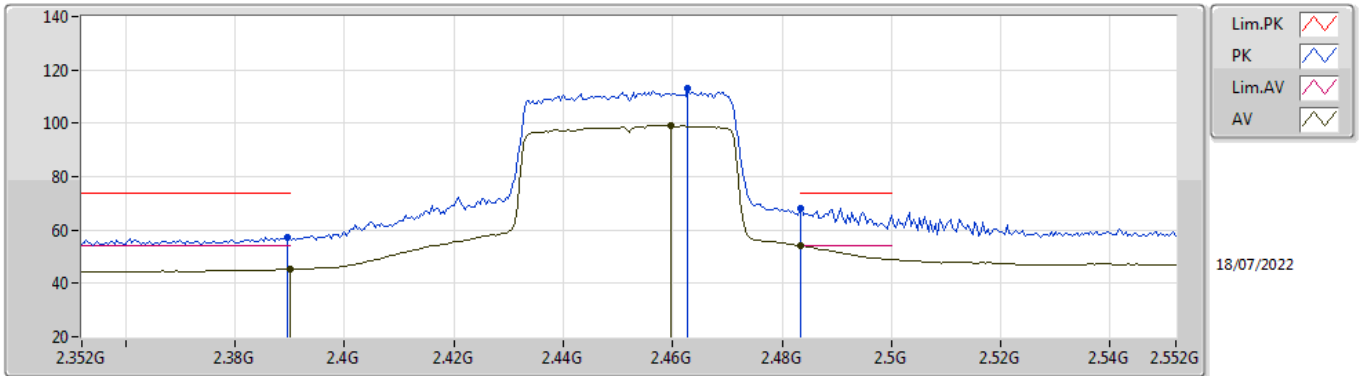


EUT Y\_3TX  
Setting 83  
06-F-S-5

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	4.87074G	42.21	74.00	-31.79	48.99	3	Horizontal	345	1.32	-	31.04	5.38	43.20
AV	4.87506G	28.31	54.00	-25.69	35.07	3	Horizontal	345	1.32	-	31.05	5.39	43.20

### 802.11ax HEW40\_Nss2,(MCS0)\_3TX

### 2452MHz\_TX

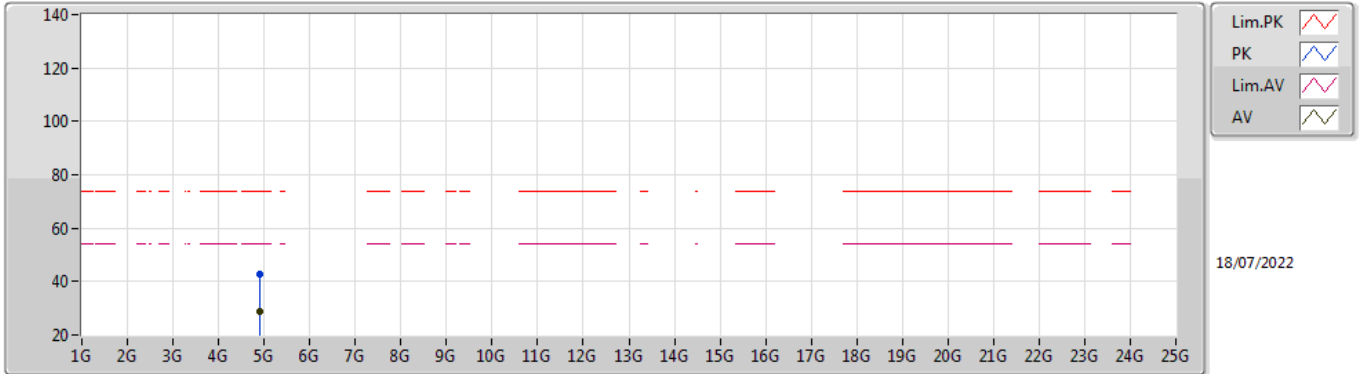


EUT\_V\_3TX  
Setting 74  
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	57.38	74.00	-16.62	26.01	3	Vertical	264	1.80	-	27.48	3.89	-
AV	2.39G	45.41	54.00	-8.59	14.04	3	Vertical	264	1.80	-	27.48	3.89	-
PK	2.4628G	113.28	Inf	-Inf	82.14	3	Vertical	264	1.80	-	27.23	3.91	-
AV	2.4596G	99.17	Inf	-Inf	68.04	3	Vertical	264	1.80	-	27.22	3.91	-
PK	2.4835G	68.16	74.00	-5.84	36.98	3	Vertical	264	1.80	-	27.27	3.91	-
AV	2.4835G	53.93	54.00	-0.07	22.75	3	Vertical	264	1.80	-	27.27	3.91	-

### 802.11ax HEW40\_Nss2,(MCS0)\_3TX

### 2452MHz\_TX

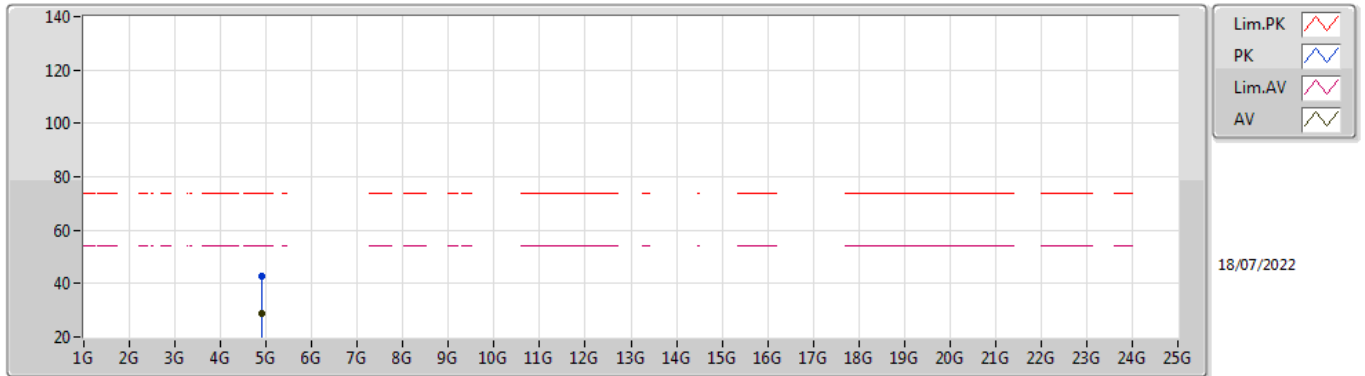


EUT Y\_3TX  
Setting 74  
06-F-S-5

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	4.9053G	42.54	74.00	-31.46	49.21	3	Vertical	156	2.36	-	31.12	5.40	43.19
AV	4.9069G	28.68	54.00	-25.32	35.34	3	Vertical	156	2.36	-	31.13	5.40	43.19

### 802.11ax HEW40\_Nss2,(MCS0)\_3TX

### 2452MHz\_TX



EUT Y\_3TX  
Setting 74  
06-F-S-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	4.9009G	42.87	74.00	-31.13	49.56	3	Horizontal	24	1.51	-	31.10	5.40	43.19
AV	4.9086G	28.69	54.00	-25.31	35.35	3	Horizontal	24	1.51	-	31.13	5.40	43.19

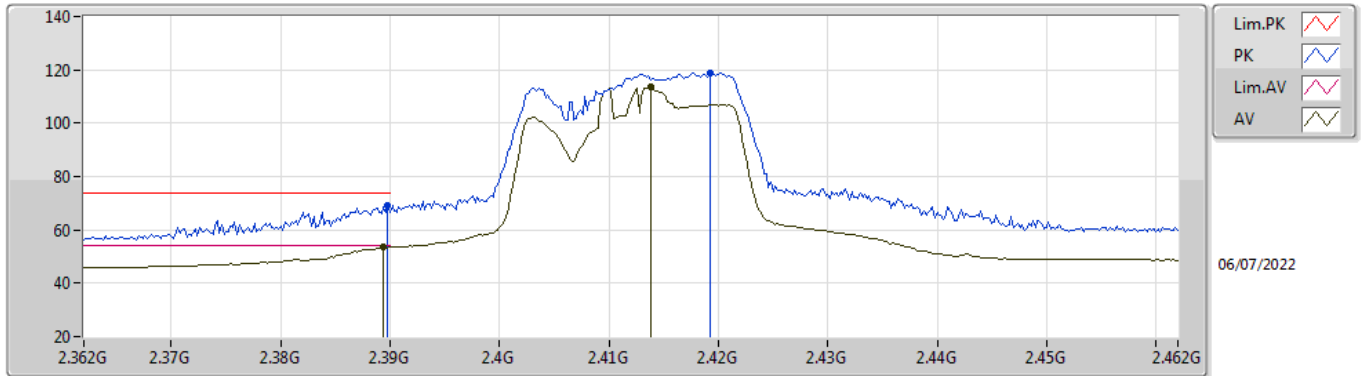


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_3TX	Pass	AV	2.39G	53.91	54.00	-0.09	3	Vertical	334	1.68	-

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

### 2412MHz\_TX



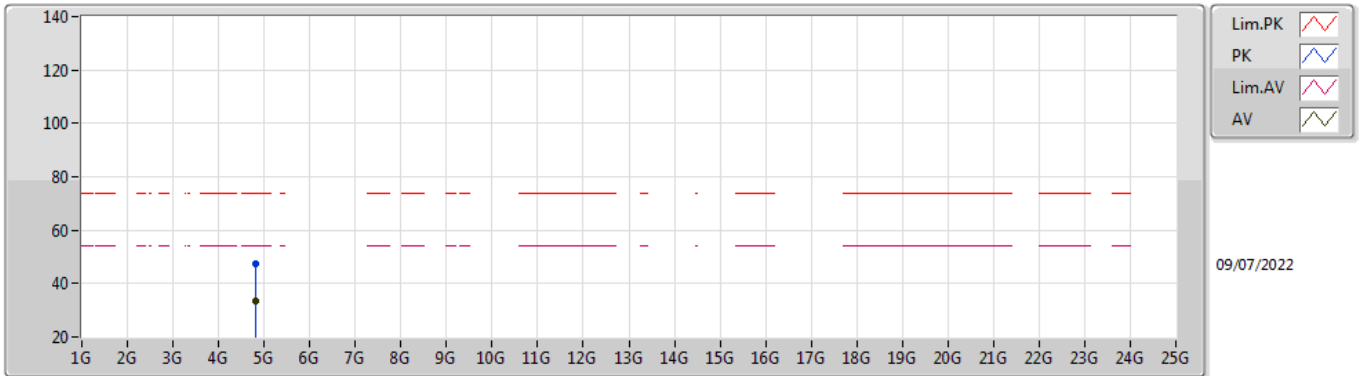
EUT Y\_3TX  
Setting 79  
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	69.38	74.00	-4.62	38.01	3	Vertical	267	1.68	-	27.48	3.89	-
AV	2.3894G	53.64	54.00	-0.36	22.27	3	Vertical	267	1.68	-	27.48	3.89	-
PK	2.4192G	119.04	Inf	-Inf	87.82	3	Vertical	267	1.68	-	27.32	3.90	-
AV	2.4138G	113.54	Inf	-Inf	82.30	3	Vertical	267	1.68	-	27.34	3.90	-



### 802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

### 2412MHz\_TX

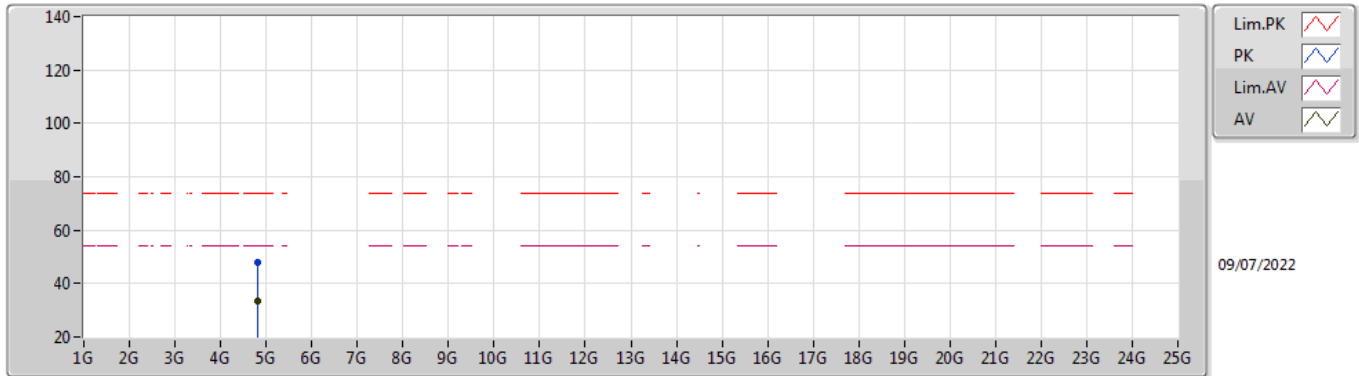


EUT Y\_3TX  
Setting 79  
01-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82788G	47.30	74.00	-26.70	41.73	3	Vertical	80	2.46	-	33.37	7.10	34.90
AV	4.82286G	33.39	54.00	-20.61	27.85	3	Vertical	80	2.46	-	33.34	7.10	34.90

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

### 2412MHz\_TX

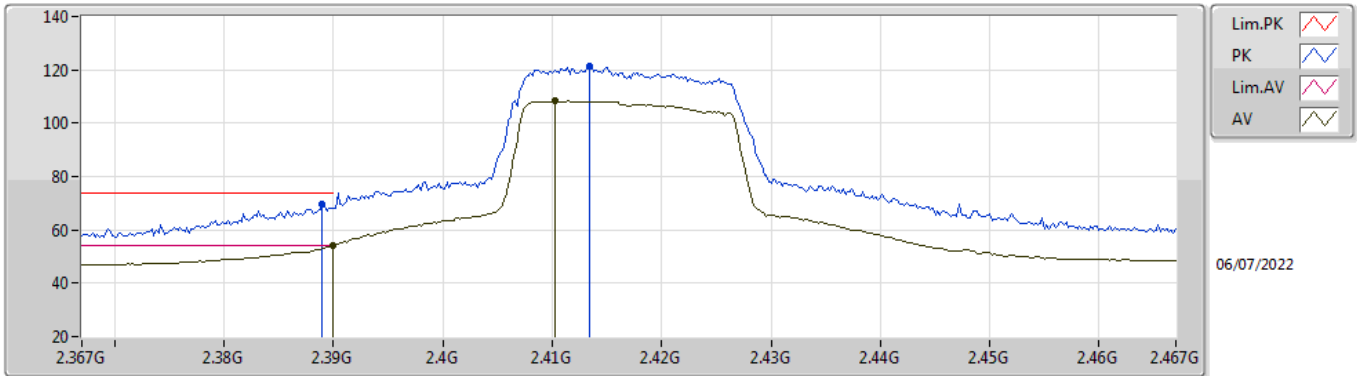


EUT Y\_3TX  
Setting 79  
01-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82044G	47.79	74.00	-26.21	42.27	3	Horizontal	147	2.70	-	33.32	7.10	34.90
AV	4.82174G	33.46	54.00	-20.54	27.93	3	Horizontal	147	2.70	-	33.33	7.10	34.90

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

### 2417MHz\_TX

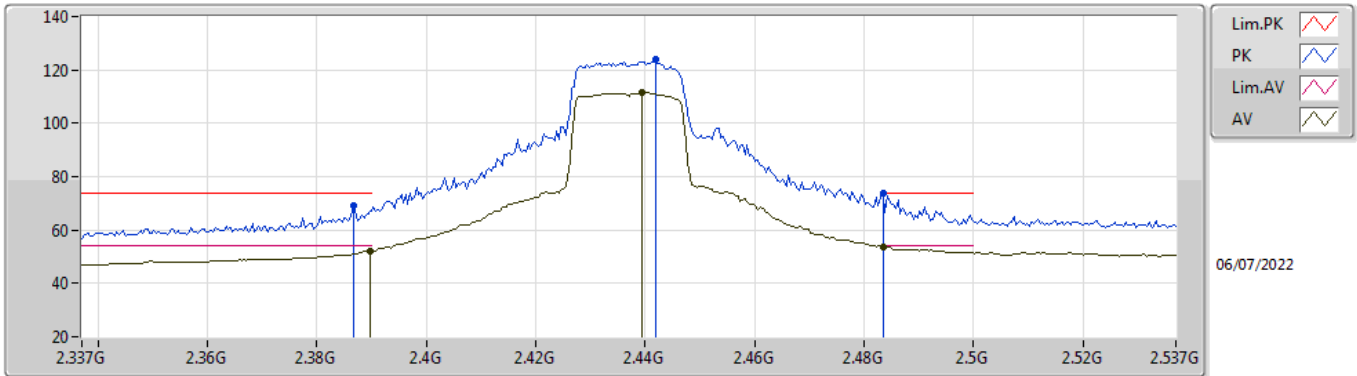


EUT Y\_3TX  
Setting 80  
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	69.65	74.00	-4.35	38.27	3	Vertical	334	1.68	-	27.49	3.89	-
AV	2.39G	53.91	54.00	-0.09	22.54	3	Vertical	334	1.68	-	27.48	3.89	-
PK	2.4134G	121.22	Inf	-Inf	89.97	3	Vertical	334	1.68	-	27.35	3.90	-
AV	2.4102G	108.28	Inf	-Inf	77.02	3	Vertical	334	1.68	-	27.36	3.90	-

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

### 2437MHz\_TX

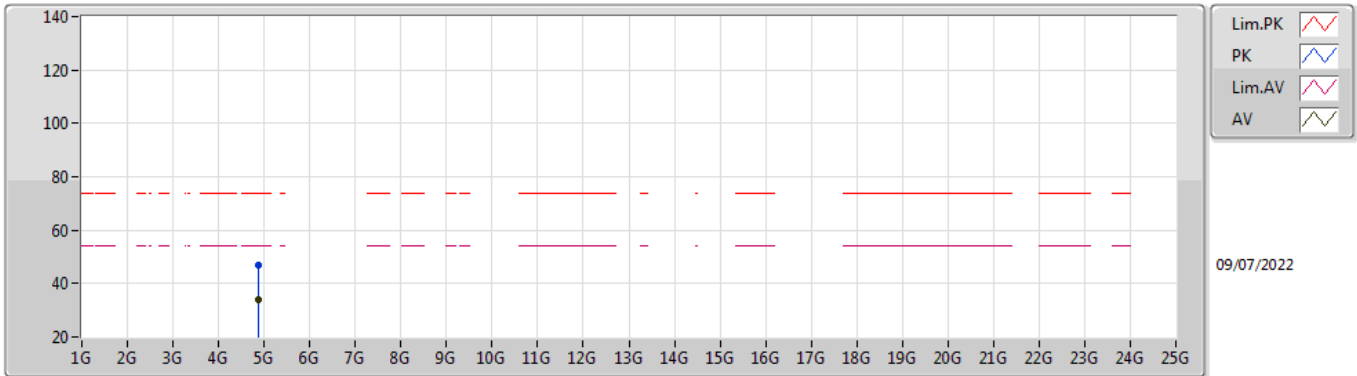


EUT\_V\_3TX  
Setting 102  
06-F-S-5

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	2.3866G	69.20	74.00	-4.80	37.81	3	Vertical	350.4	1.61	-	27.51	3.88	-
AV	2.3898G	52.08	54.00	-1.92	20.71	3	Vertical	350.4	1.61	-	27.48	3.89	-
PK	2.4418G	123.71	Inf	-Inf	92.57	3	Vertical	350.4	1.61	-	27.23	3.91	-
AV	2.4394G	111.79	Inf	-Inf	80.64	3	Vertical	350.4	1.61	-	27.24	3.91	-
PK	2.4835G	73.63	74.00	-0.37	42.45	3	Vertical	350.4	1.61	-	27.27	3.91	-
AV	2.4835G	53.78	54.00	-0.22	22.60	3	Vertical	350.4	1.61	-	27.27	3.91	-

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

### 2437MHz\_TX

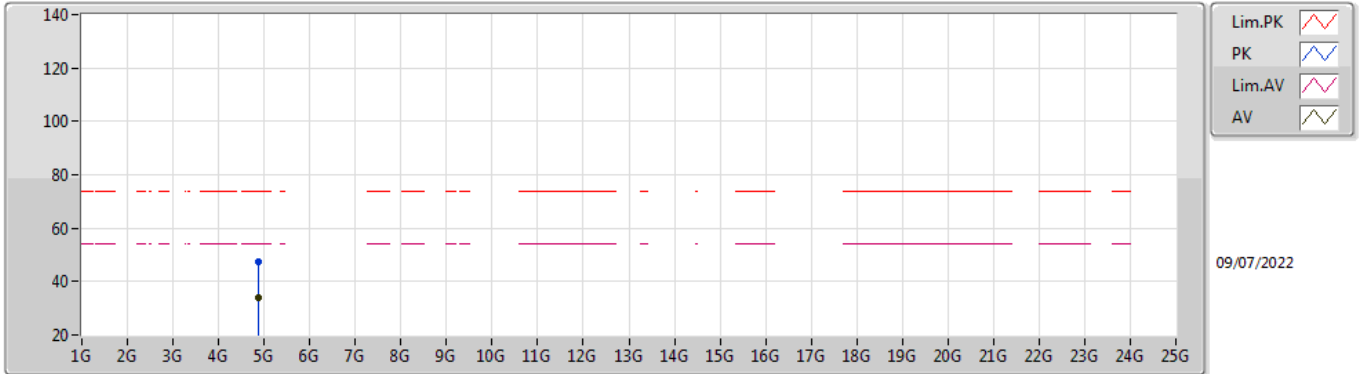


EUT Y\_3TX  
Setting 102  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87228G	47.04	74.00	-26.96	41.25	3	Vertical	79	2.45	-	33.59	7.10	34.90
AV	4.87438G	33.80	54.00	-20.20	28.00	3	Vertical	79	2.45	-	33.60	7.10	34.90

802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

2437MHz\_TX

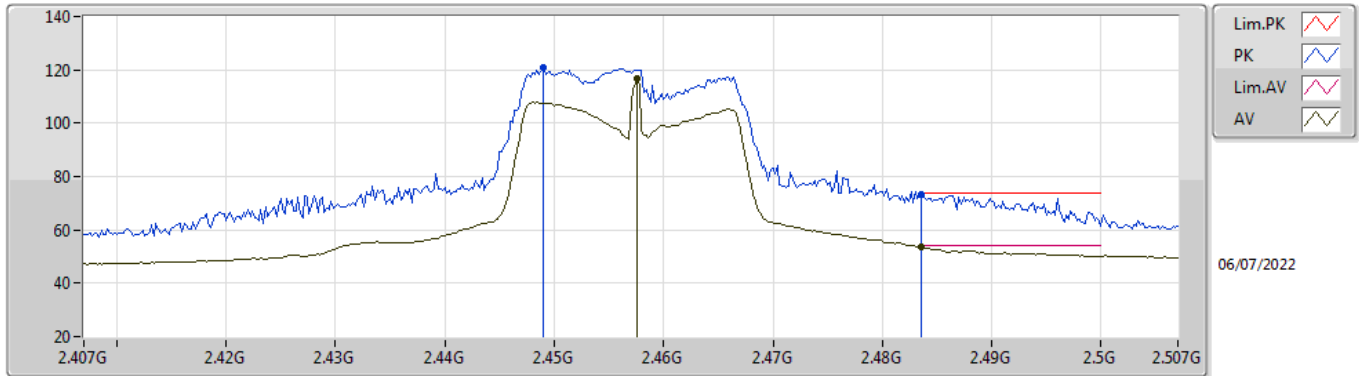


EUT Y\_3TX  
Setting 102  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87726G	47.59	74.00	-26.41	41.77	3	Horizontal	229	2.19	-	33.61	7.10	34.89
AV	4.87506G	33.78	54.00	-20.22	27.97	3	Horizontal	229	2.19	-	33.60	7.10	34.89

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

### 2457MHz\_TX

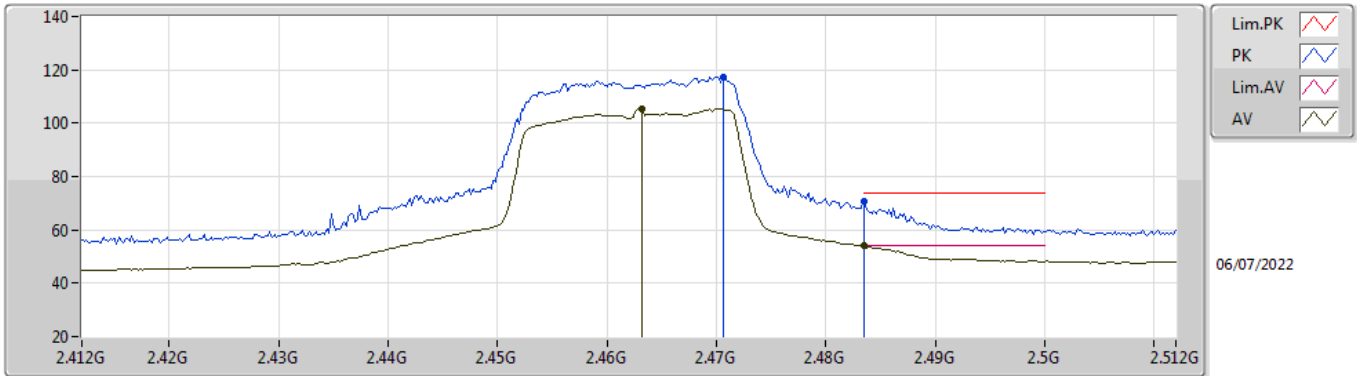


EUT Y\_3TX  
Setting 84  
06-F-S-5

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	2.449G	120.79	Inf	-Inf	89.68	3	Vertical	319.2	1.80	-	27.20	3.91	-
AV	2.4576G	116.76	Inf	-Inf	85.63	3	Vertical	319.2	1.80	-	27.22	3.91	-
PK	2.4835G	73.24	74.00	-0.76	42.06	3	Vertical	319.2	1.80	-	27.27	3.91	-
AV	2.4836G	53.45	54.00	-0.55	22.27	3	Vertical	319.2	1.80	-	27.27	3.91	-

802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

2462MHz\_TX



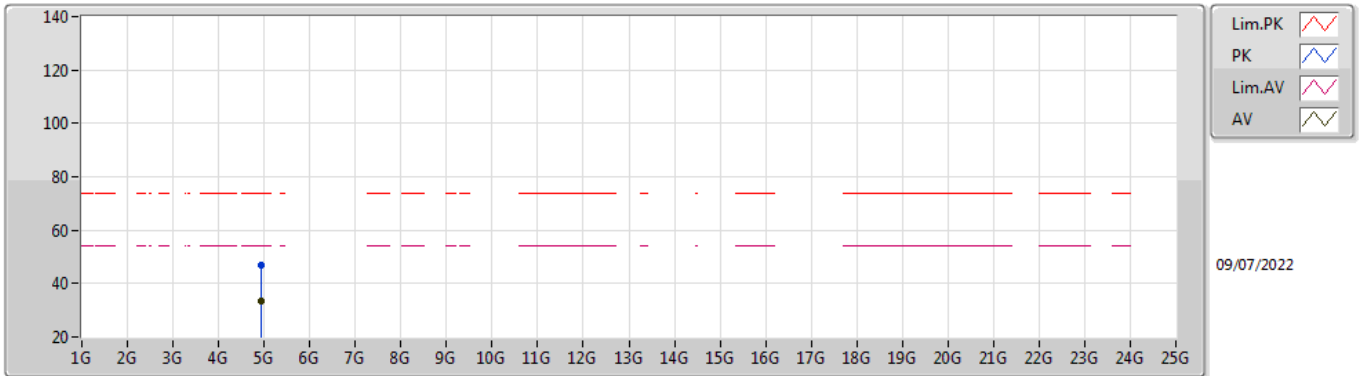
EUT Y\_3TX  
Setting 65  
06-F-S-5

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	2.4706G	117.40	Inf	-Inf	86.25	3	Vertical	195.9	2.92	-	27.24	3.91	-
AV	2.4632G	105.43	Inf	-Inf	74.29	3	Vertical	195.9	2.92	-	27.23	3.91	-
PK	2.4835G	70.70	74.00	-3.30	39.52	3	Vertical	195.9	2.92	-	27.27	3.91	-
AV	2.4835G	53.91	54.00	-0.09	22.73	3	Vertical	195.9	2.92	-	27.27	3.91	-



### 802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

### 2462MHz\_TX

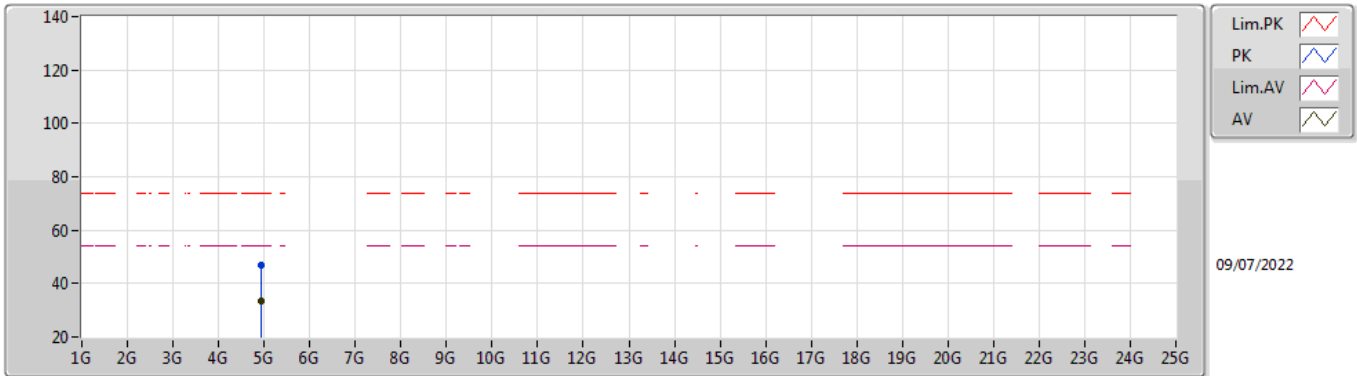


EUT Y\_3TX  
Setting 65  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92738G	46.91	74.00	-27.09	40.95	3	Vertical	299	1.89	-	33.75	7.10	34.89
AV	4.9276G	33.32	54.00	-20.68	27.35	3	Vertical	299	1.89	-	33.76	7.10	34.89

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_3TX

### 2462MHz\_TX

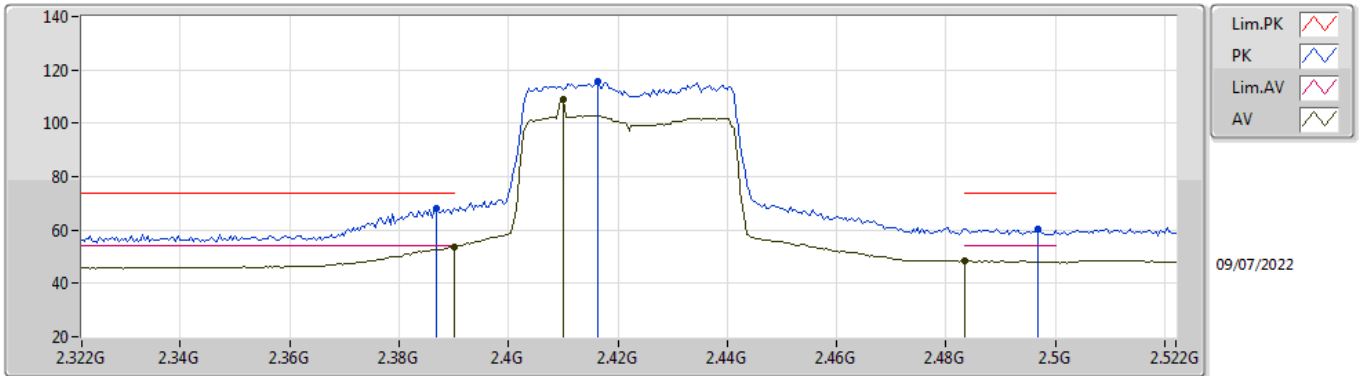


EUT Y\_3TX  
Setting 65  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9262G	46.80	74.00	-27.20	40.84	3	Horizontal	294	2.29	-	33.75	7.10	34.89
AV	4.92818G	33.34	54.00	-20.66	27.37	3	Horizontal	294	2.29	-	33.76	7.10	34.89

802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

2422MHz\_TX

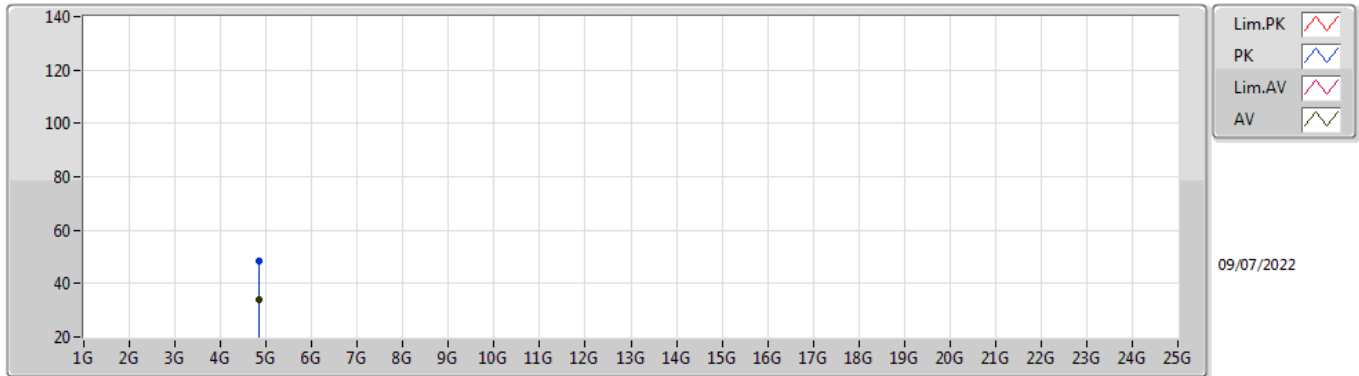


EUT Y\_3TX  
Setting 63  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3868G	68.00	74.00	-6.00	35.36	3	Vertical	93	1.63	-	28.25	4.39	-
AV	2.39G	53.84	54.00	-0.16	21.19	3	Vertical	93	1.63	-	28.26	4.39	-
PK	2.4164G	115.46	Inf	-Inf	82.75	3	Vertical	93	1.63	-	28.30	4.41	-
AV	2.41G	109.15	Inf	-Inf	76.44	3	Vertical	93	1.63	-	28.30	4.41	-
PK	2.4968G	60.27	74.00	-13.73	27.33	3	Vertical	93	1.63	-	28.49	4.45	-
AV	2.4835G	48.46	54.00	-5.54	15.59	3	Vertical	93	1.63	-	28.43	4.44	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

### 2422MHz\_TX

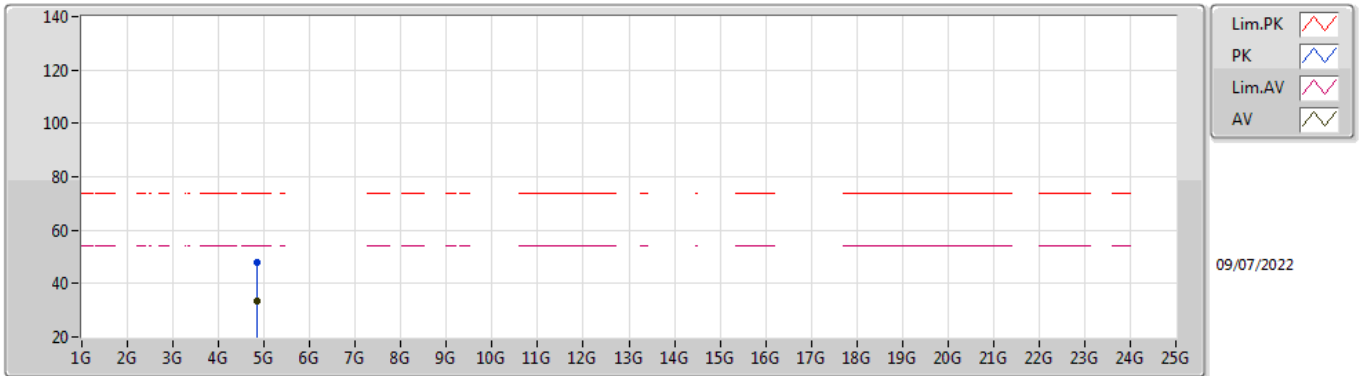


EUT Y\_3TX  
Setting 63  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84006G	48.48	74.00	-25.52	42.84	3	Vertical	155	1.09	-	33.44	7.10	34.90
AV	4.8414G	33.79	54.00	-20.21	28.14	3	Vertical	155	1.09	-	33.45	7.10	34.90

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

### 2422MHz\_TX

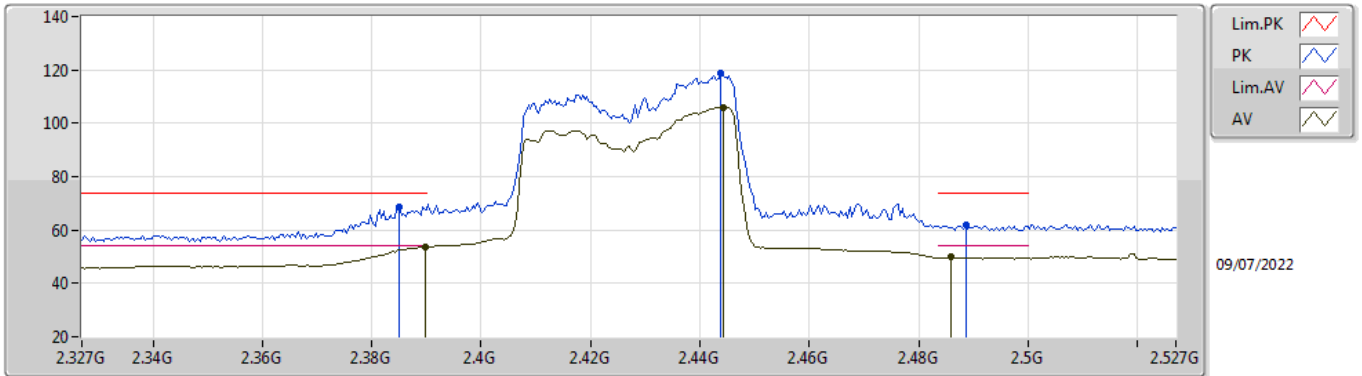






EUT Y\_3TX  
Setting 63  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84124G	48.12	74.00	-25.88	42.47	3	Horizontal	31	2.55	-	33.45	7.10	34.90
AV	4.84104G	33.69	54.00	-20.31	28.04	3	Horizontal	31	2.55	-	33.45	7.10	34.90

802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

2427MHz\_TX



Lim.PK   
 PK   
 Lim.AV   
 AV 

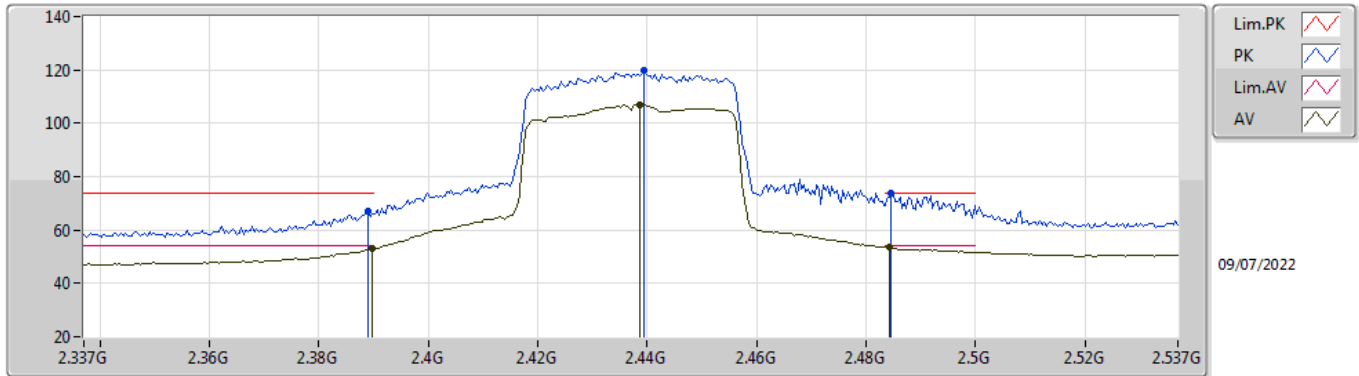
09/07/2022

EUT\_V\_3TX  
Setting 73  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.385G	68.64	74.00	-5.36	36.01	3	Vertical	202	1.76	-	28.24	4.39	-
AV	2.3898G	53.71	54.00	-0.29	21.06	3	Vertical	202	1.76	-	28.26	4.39	-
PK	2.4438G	118.70	Inf	-Inf	85.98	3	Vertical	202	1.76	-	28.30	4.42	-
AV	2.4442G	106.05	Inf	-Inf	73.33	3	Vertical	202	1.76	-	28.30	4.42	-
PK	2.4886G	61.85	74.00	-12.15	28.96	3	Vertical	202	1.76	-	28.45	4.44	-
AV	2.4858G	49.78	54.00	-4.22	16.90	3	Vertical	202	1.76	-	28.44	4.44	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

### 2437MHz\_TX

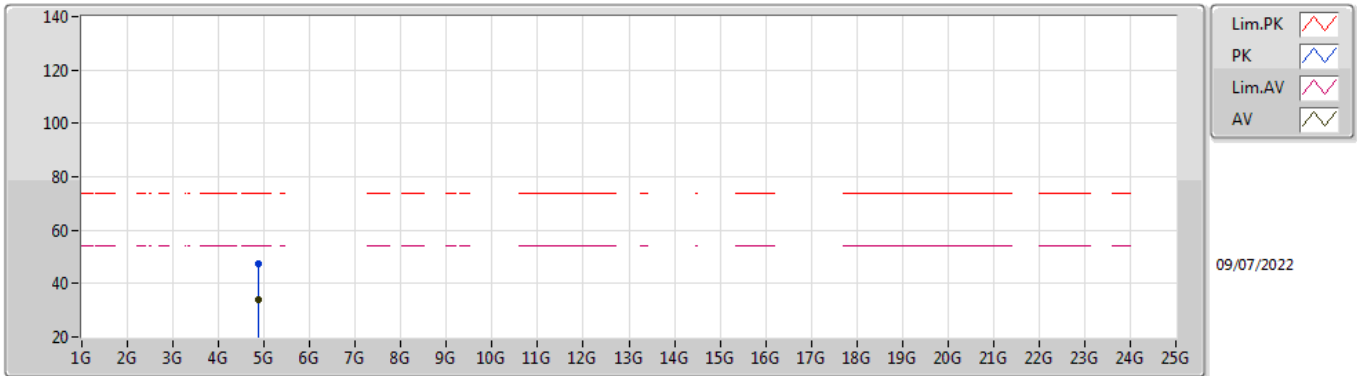


EUT\_V\_3TX  
Setting 81  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	66.84	74.00	-7.16	34.19	3	Vertical	-0	1.62	-	28.26	4.39	-
AV	2.3898G	52.86	54.00	-1.14	20.21	3	Vertical	-0	1.62	-	28.26	4.39	-
PK	2.4394G	119.86	Inf	-Inf	87.14	3	Vertical	-0	1.62	-	28.30	4.42	-
AV	2.4386G	106.82	Inf	-Inf	74.10	3	Vertical	-0	1.62	-	28.30	4.42	-
PK	2.4846G	73.71	74.00	-0.29	40.83	3	Vertical	-0	1.62	-	28.44	4.44	-
AV	2.4842G	53.57	54.00	-0.43	20.69	3	Vertical	-0	1.62	-	28.44	4.44	-

802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

2437MHz\_TX



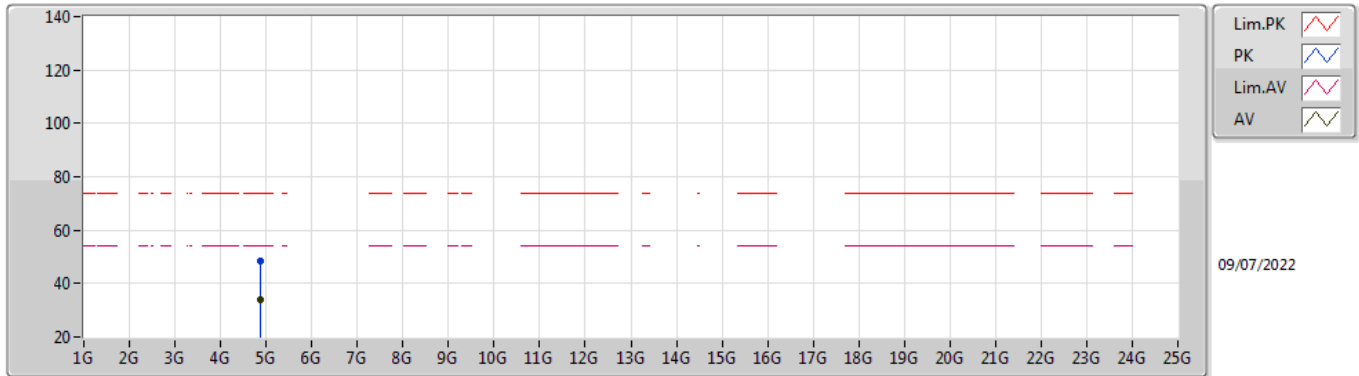
EUT Y\_3TX  
Setting 81  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87664G	47.46	74.00	-26.54	41.64	3	Vertical	24	1.80	-	33.61	7.10	34.89
AV	4.8746G	34.00	54.00	-20.00	28.20	3	Vertical	24	1.80	-	33.60	7.10	34.90



### 802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

### 2437MHz\_TX

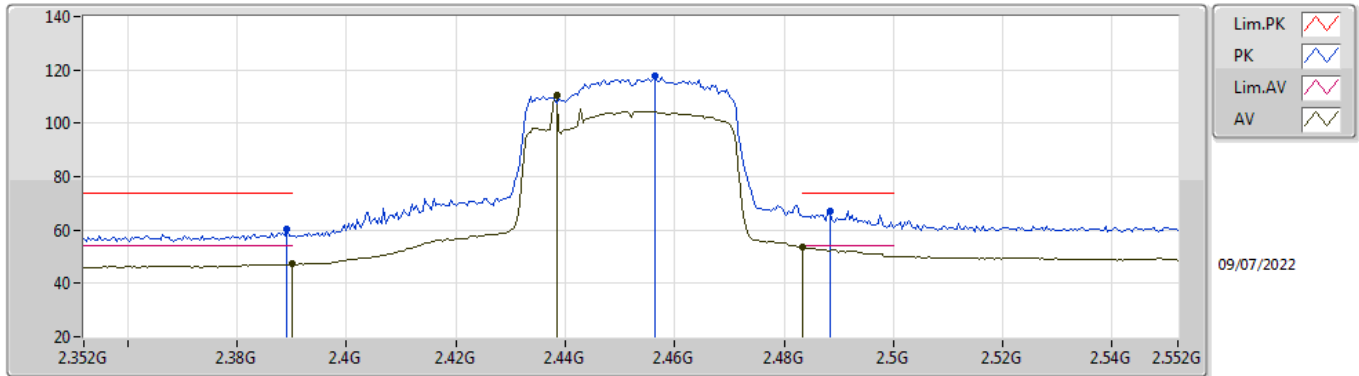


EUT Y\_3TX  
Setting 81  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87668G	48.36	74.00	-25.64	42.54	3	Horizontal	79	1.32	-	33.61	7.10	34.89
AV	4.87522G	33.97	54.00	-20.03	28.16	3	Horizontal	79	1.32	-	33.60	7.10	34.89

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

### 2452MHz\_TX

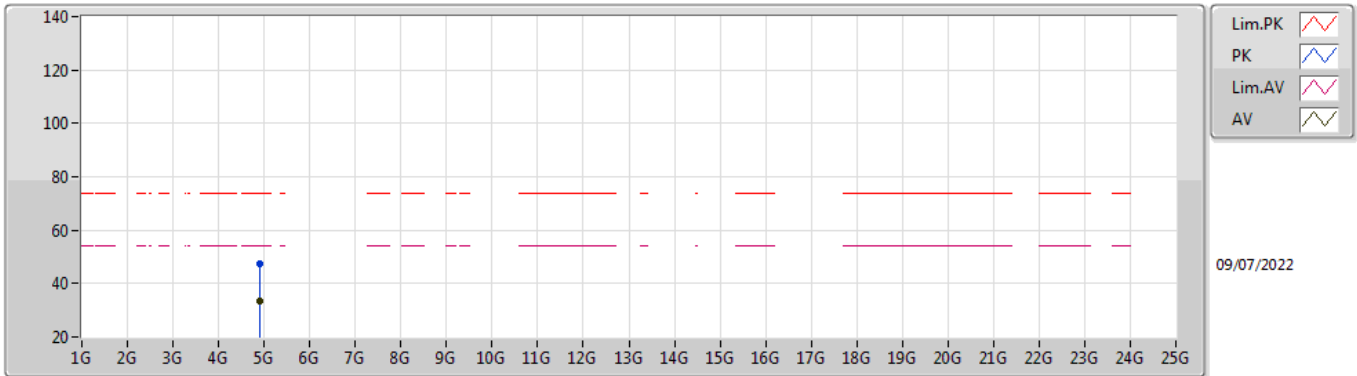


EUT Y\_3TX  
Setting 71  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	60.41	74.00	-13.59	27.76	3	Vertical	38	1.80	-	28.26	4.39	-
AV	2.39G	47.37	54.00	-6.63	14.72	3	Vertical	38	1.80	-	28.26	4.39	-
PK	2.4564G	117.52	Inf	-Inf	84.76	3	Vertical	38	1.80	-	28.33	4.43	-
AV	2.4384G	110.52	Inf	-Inf	77.80	3	Vertical	38	1.80	-	28.30	4.42	-
PK	2.4884G	67.30	74.00	-6.70	34.41	3	Vertical	38	1.80	-	28.45	4.44	-
AV	2.4835G	53.56	54.00	-0.44	20.69	3	Vertical	38	1.80	-	28.43	4.44	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

### 2452MHz\_TX

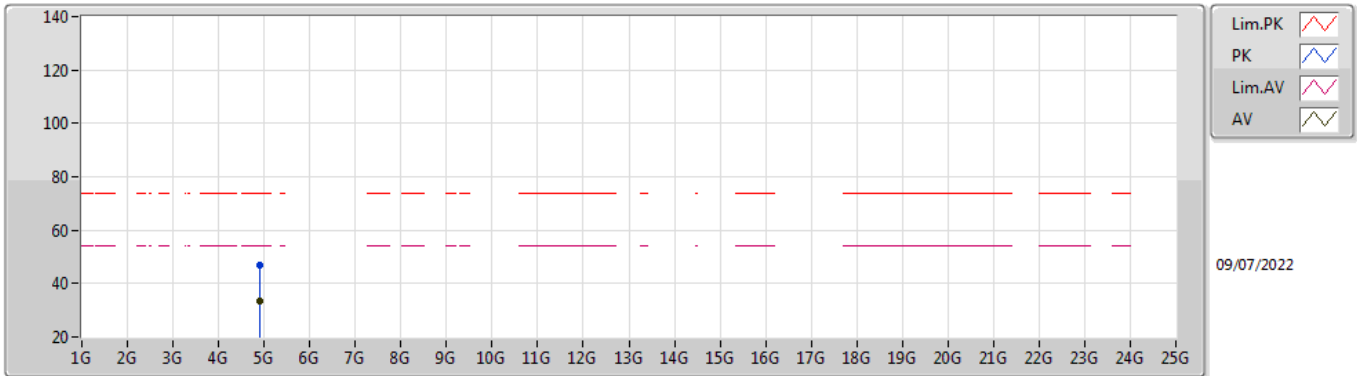


EUT Y\_3TX  
Setting 71  
03-D-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90124G	47.57	74.00	-26.43	41.66	3	Vertical	288	1.40	-	33.70	7.10	34.89
AV	4.90032G	33.64	54.00	-20.36	27.73	3	Vertical	288	1.40	-	33.70	7.10	34.89

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_3TX

### 2452MHz\_TX



EUT Y\_3TX  
Setting 71  
03-D-G-2

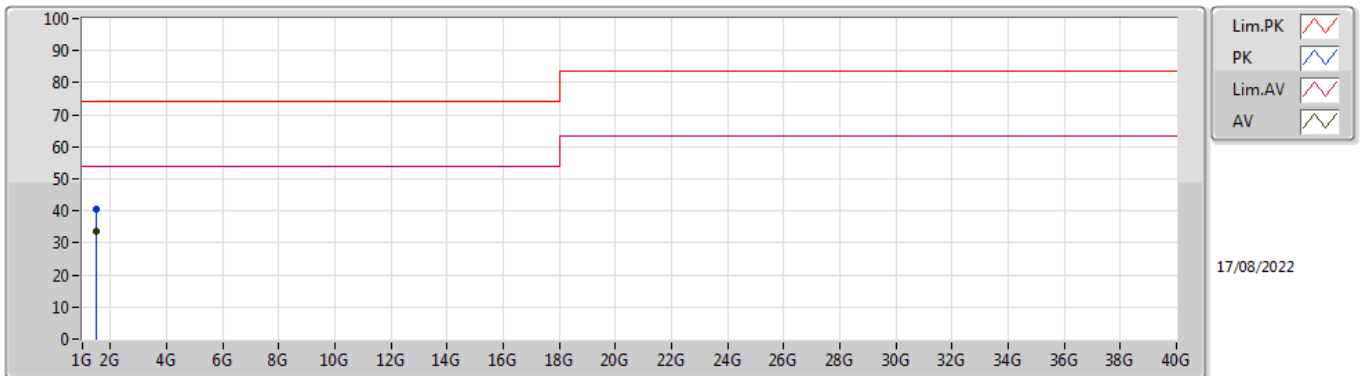
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90486G	47.13	74.00	-26.87	41.21	3	Horizontal	9	2.80	-	33.71	7.10	34.89
AV	4.90194G	33.54	54.00	-20.46	27.63	3	Horizontal	9	2.80	-	33.70	7.10	34.89



**Summary**

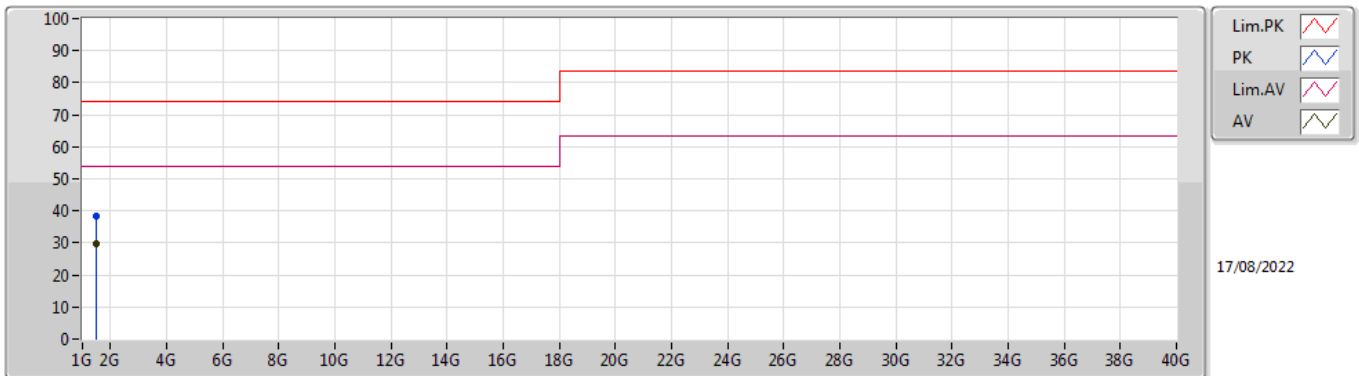
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.50002G	33.44	54.00	-20.56	Vertical

### 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	1.49986G	40.46	74.00	-33.54	-5.87	3	Vertical	360	1.53	-	46.33	25.10	4.25	35.22
AV	1.50002G	33.44	54.00	-20.56	-5.87	3	Vertical	360	1.53	"Worst"	39.31	25.10	4.25	35.22

### 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	1.49995G	38.52	74.00	-35.48	-5.87	3	Horizontal	190	1.40	-	44.39	25.10	4.25	35.22
AV	1.49999G	29.88	54.00	-24.12	-5.87	3	Horizontal	190	1.40	"Worst"	35.75	25.10	4.25	35.22