




# RADIO TEST REPORT

**FCC ID** : MSQ-RTAX6100  
**Equipment** : AX5400 Dual Band Wi-Fi Router  
**Brand Name** : ASUS  
**Model Name** : RT-AX82U V2, RT-AX5400  
**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)** : Datamax Electronics (DongGuan) Co., Ltd.  
Niu Shan Foreign Economic Industrial Park, Dong Cheng District,  
Dong Guan City, Guang Dong, China  
**Manufacturer(3)** : 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  
**Manufacturer(4)** : Lih Rong Electronic Enterprise Co.,Ltd.  
No. 486, Sec. 1, Wanshou Road, Guishan District, , Taoyuan City,  
Taiwan  
**Standard** : 47 CFR FCC Part 15.247

The product was received on May 30, 2022, and testing was started from May 30, 2022 and completed on Sep. 24, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

  
Approved by: Sam Chen

**Sporton International Inc. Hsinchu Laboratory**

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



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## Summary of Test Result

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

**Declaration of Conformity:**

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

**Comments and Explanations:**

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

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



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

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

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

**Note:**

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



**1.1.2 Antenna Information**

Set	Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)
		2.4GHz	5GHz					
1	1	2	2	PSA	RFDPA161314IMLB701	Dipole Antenna	I-PEX	Note1
	2	-	1	PSA	RFDPA161311IM5B702	Dipole Antenna	I-PEX	
	3	-	4	PSA	RFDPA161310IM5B701	Dipole Antenna	I-PEX	
	4	1	3	PSA	RFDPA161316IMLB701	Dipole Antenna	I-PEX	
2	1	2	2	PSA	RFDPA171314IMLB701	Dipole Antenna	I-PEX	Note1
	2	-	1	PSA	RFDPA171311IM5B702	Dipole Antenna	I-PEX	
	3	-	4	PSA	RFDPA171310IM5B702	Dipole Antenna	I-PEX	
	4	1	3	PSA	RFDPA171316IMLB701	Dipole Antenna	I-PEX	
3	1	2	2	PSA	RFDPA141514IMLB701	Dipole Antenna	I-PEX	Note1
	2	-	1	PSA	RFDPA141511IM5B701	Dipole Antenna	I-PEX	
	3	-	4	PSA	RFDPA141510IM5B701	Dipole Antenna	I-PEX	
	4	1	3	PSA	RFDPA141516IMLB701	Dipole Antenna	I-PEX	
4	1	2	2	WHA YU	C660-510468-A	Dipole Antenna	I-PEX	Note1
	2	-	1	WHA YU	C660-510469-A	Dipole Antenna	I-PEX	
	3	-	4	WHA YU	C660-510470-A	Dipole Antenna	I-PEX	
	4	1	3	WHA YU	C660-510471-A	Dipole Antenna	I-PEX	
5	1	2	2	WHA YU	C660-510472-A	Dipole Antenna	I-PEX	Note1
	2	-	1	WHA YU	C660-510473-A	Dipole Antenna	I-PEX	
	3	-	4	WHA YU	C660-510474-A	Dipole Antenna	I-PEX	
	4	1	3	WHA YU	C660-510475-A	Dipole Antenna	I-PEX	
6	1	2	2	WHA YU	C660-510495-A	Dipole Antenna	I-PEX	Note1
	2	-	1	WHA YU	C660-510496-A	Dipole Antenna	I-PEX	
	3	-	4	WHA YU	C660-510497-A	Dipole Antenna	I-PEX	
	4	1	3	WHA YU	C660-510498-A	Dipole Antenna	I-PEX	



Note1:

Set	Ant.	Antenna Gain (dBi)				
		2.4GHz	5GHz UNII 1	5GHz UNII 2A	5GHz UNII 2C	5GHz UNII 3
1	1	1.71	1.75	1.89	1.88	1.7
	2	-	1.93	1.93	1.92	1.95
	3	-	1.75	1.85	1.83	1.89
	4	1.63	1.92	1.88	1.9	1.87
2	1	1.7	1.74	1.74	1.82	1.68
	2	-	1.86	1.9	1.64	1.9
	3	-	1.48	1.6	1.46	1.88
	4	1.61	1.63	1.71	1.81	1.86
3	1	1.7	1.75	1.75	1.78	1.67
	2	-	1.82	1.93	1.58	1.92
	3	-	1.75	1.46	1.18	1.14
	4	1.61	1.86	1.6	1.89	1.05
4	1	1.61	1.74	1.84	1.86	1.67
	2	-	1.76	1.8	1.87	1.87
	3	-	1.66	1.72	1.69	1.84
	4	1.6	1.88	1.82	1.85	1.86
5	1	1.7	1.71	1.85	1.85	1.68
	2	-	1.68	1.73	1.8	1.85
	3	-	1.63	1.74	1.76	1.77
	4	1.62	1.67	1.74	1.79	1.85
6	1	1.59	1.72	1.82	1.84	1.66
	2	-	1.74	1.79	1.86	1.86
	3	-	1.61	1.69	1.68	1.82
	4	1.58	1.77	1.81	1.82	1.85





Note2: Directional gain information for antenna set 1

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

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

Where ;

$$G1 = 10 ; G2 = 10$$

$$2.4GHz \ G1 = 1.71 \text{ dBi}; \ G2 = 1.63 \text{ dBi}; \ 2T1S \ DG = 4.68 \text{ dBi}$$





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	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} \mathcal{E}_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} \mathcal{E}_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} \mathcal{E}_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} \mathcal{E}_{j,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,2) = 10^{G3/20} ; NSS1(g1,2) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] => 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

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

5GHz Band1 G1 = 1.75 dBi; G2 = 1.93 dBi; G3 = 1.75 dBi; G4 = 1.92 dBi; 4T1S DG = 7.86 dBi  
4T2S=4.85

5 GHz Band2 G1 = 1.89 dBi; G2 = 1.93 dBi; G3 = 1.85 dBi; G4 = 1.88 dBi; 4T1S DG = 7.91 dBi  
4T2S=4.90

5GHz Band3 G1 = 1.88 dBi; G2 = 1.92 dBi; G3 = 1.83 dBi; G4 = 1.90 dBi; 4T1S DG = 7.90 dBi  
4T2S=4.89

5 GHz Band4 G1 = 1.70 dBi; G2 = 1.95 dBi; G3 = 1.89 dBi; G4 = 1.87 dBi; 4T1S DG = 7.87 dBi  
4T2S=4.86



Note3: The EUT has six sets of antenna, and each set contains four antennas.

Note4: Set 1~6 are the same type antenna. Only the highest gain "set 1" antenna was selected to test and record in this report.

Note5: The above information was declared by manufacturer.

**For 2.4GHz function:**

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

**For 5GHz function:**

For IEEE 802.11a/n/ac/ax mode (2TX, 4TX/4RX)

For 2TX

Port 1 and Port 4 can be used as transmitting antenna.

Port 1 and Port 4 could transmit simultaneously.

For 4TX

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

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

For 4RX:

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

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

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.994	0.03	n/a (DC≥0.98)	n/a (DC≥0.98)
802.11g	0.992	0.03	n/a (DC≥0.98)	n/a (DC≥0.98)
802.11ax HEW20	0.991	0.04	n/a (DC≥0.98)	n/a (DC≥0.98)
802.11ax HEW20-BF	0.98	0.09	n/a (DC≥0.98)	n/a (DC≥0.98)
802.11ax HEW40	0.989	0.05	n/a (DC≥0.98)	n/a (DC≥0.98)
802.11ax HEW40-BF	0.96	0.18	5.105m	300

Note:

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

**1.1.4 EUT Operational Condition**

<b>EUT Power Type</b>	From Power Adapter			
<b>Beamforming Function</b>	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
<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 Multiple Listing

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

Model Name	Description
RT-AX82U V2	All the models are identical, the difference model served as marketing strategy.
RT-AX5400	

Note 1: From the above models, model: RT-AX82U V2 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

### 1.1.6 Table for EUT Information

EUT	Special Effects of Light Board	Description
1	V	EUT 2 is the same as EUT 1. The difference is the design of the light board and exterior of the EUT.
2	X	

Note: The above information was declared by manufacturer.

### 1.1.7 Table for EUT Supports Function

Function	Supports type
AP Router	Master
Bridge	Client without radar detection
Repeater	Master
Mesh	Master

Note: The AP Router mode was selected to test 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	TH03-CB	Owen Hsu	23.6-23.9 / 57~64	Jun. 16, 2022~ Jul. 01, 2022
Radiated (below 1GHz)	03CH05-CB	Chris Li	24.2~25.2 / 61~66	Sep. 14, 2022
Radiated (above 1GHz)	03CH02-CB	Chris Li	23.8~24.4 / 67~68	May 30, 2022~ Jun. 28, 2022
	03CH06-CB	Chris Li	23.8~25.2 / 63~69	May 30, 2022~ Jun. 28, 2022
Radiated (Co-location)	03CH05-CB	Chris Li	24.5~25.2 / 61~65	Sep. 24, 2022
AC Conduction	CO01-CB	Dean Chang	20~22 / 60~62	Aug. 08, 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)

For Before Jun. 01, 2022

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%

For After May 31, 2022

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



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

For non beamforming

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	106
2437MHz	106
2462MHz	106
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	84
2417MHz	86
2437MHz	107
2457MHz	86
2462MHz	84
802.11ax HEW20_Nss2,(MCS0)_2TX	-
2412MHz	84
2417MHz	89
2437MHz	106
2457MHz	87
2462MHz	85
802.11ax HEW40_Nss2,(MCS0)_2TX	-
2422MHz	75
2427MHz	76
2437MHz	87
2452MHz	82



**For beamforming**

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	83
2417MHz	89
2437MHz	106
2457MHz	84
2462MHz	82
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	75
2427MHz	76
2437MHz	89
2452MHz	83

**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 2T1S: The EUT supports non-beamforming and beamforming mode, only beamforming mode has been selected to test.





## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
<b>Operating Mode</b>	Normal Link
1	EUT 1 (AP Router) + Adapter 1
2	EUT 1 (AP Router) + Adapter 3
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 Z axis. So the measurement will follow this same test configuration.
1	EUT 1 in Z axis_2.4GHz + Adapter 1
2	EUT 1 in Z axis_2.4GHz + Adapter 3
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT 1 in Z axis_5GHz + Adapter 1
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT 2 in Z axis_5GHz + Adapter 1
For operating mode 3 is the worst case and it was record in this test report.	



<b>Operating Mode &gt; 1GHz</b>	CTX
	The EUT was performed at X axis, Y axis and Z axis positio, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
1	EUT 1 in Z axis

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

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
<b>Operating Mode</b>	
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA231808 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
Adapter 1	DELTA	ADP-33AW Y	INPUT:100-240V~1.0A, 50-60Hz OUTPUT:19.0V, 1.75A, 33.0W
Adapter 2	DELTA	ADP-33AW Y	INPUT:100-240V~1.0A, 50-60Hz OUTPUT:19.0V, 1.75A, 33.0W
Adapter 3	PI	AD2131320	INPUT:100-240V~50-60Hz, 0.8A OUTPUT:19.0V, 1.75A, 33.0W
Adapter 4	PI	AD2131320	INPUT:100-240V~50-60Hz, 0.8A OUTPUT:19.0V, 1.75A, 33.0W
Other			
RJ-45 cable*1, non-shielded, 1.5m			

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

Note 2: The difference between Adapter 3 & Adapter 4 is only for labels, there is only Adapter 3 tested and recorded in this report.

Note 3: The above information was declared by manufacturer.

### 2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN1 NB	DELL	E6430	N/A
B	LAN4 NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	WAN NB	DELL	E6430	N/A
F	Flash disk3.0	Transcend	JetFlash-700	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4310	N/A



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

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4310	N/A

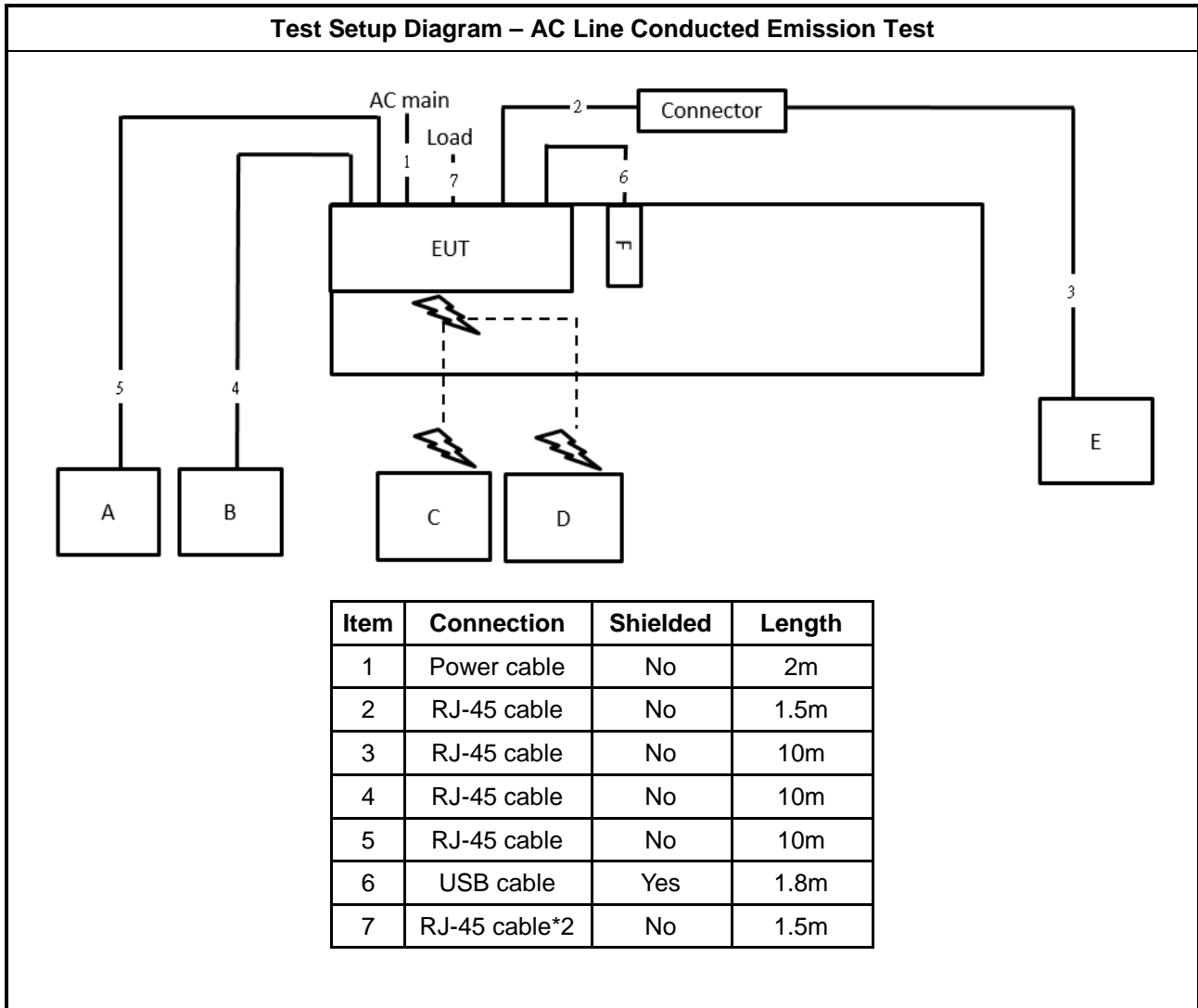
For beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4310	N/A
B	NB	DELL	PP13S	N/A
C	Client	ASUS	A26	N/A

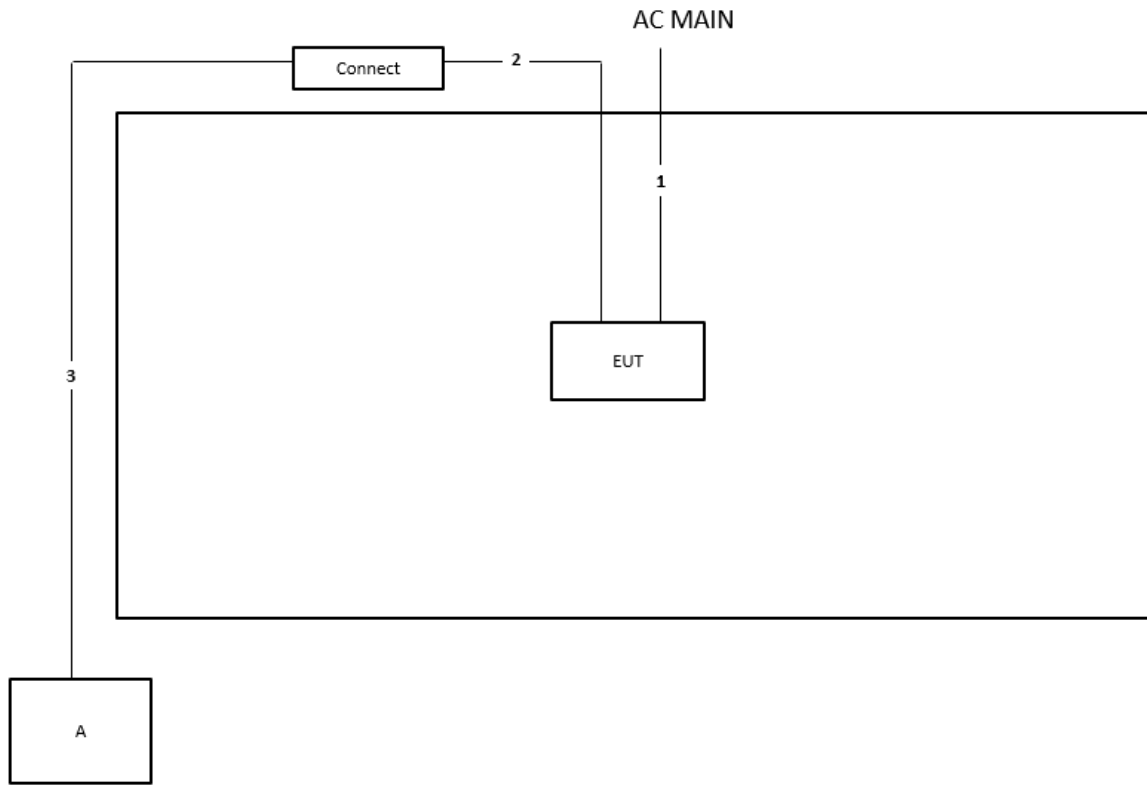
For RF Conducted:

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

## 2.6 Test Setup Diagram



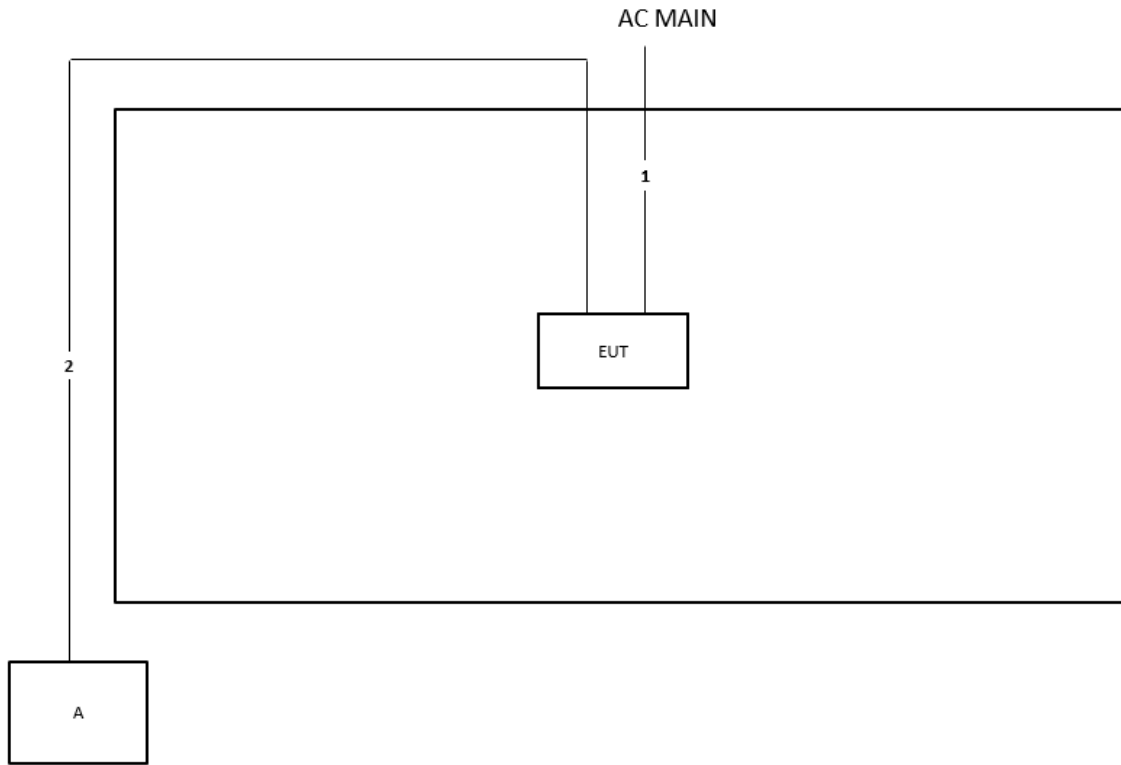
**Test Setup Diagram - Radiated Test < 1GHz**



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

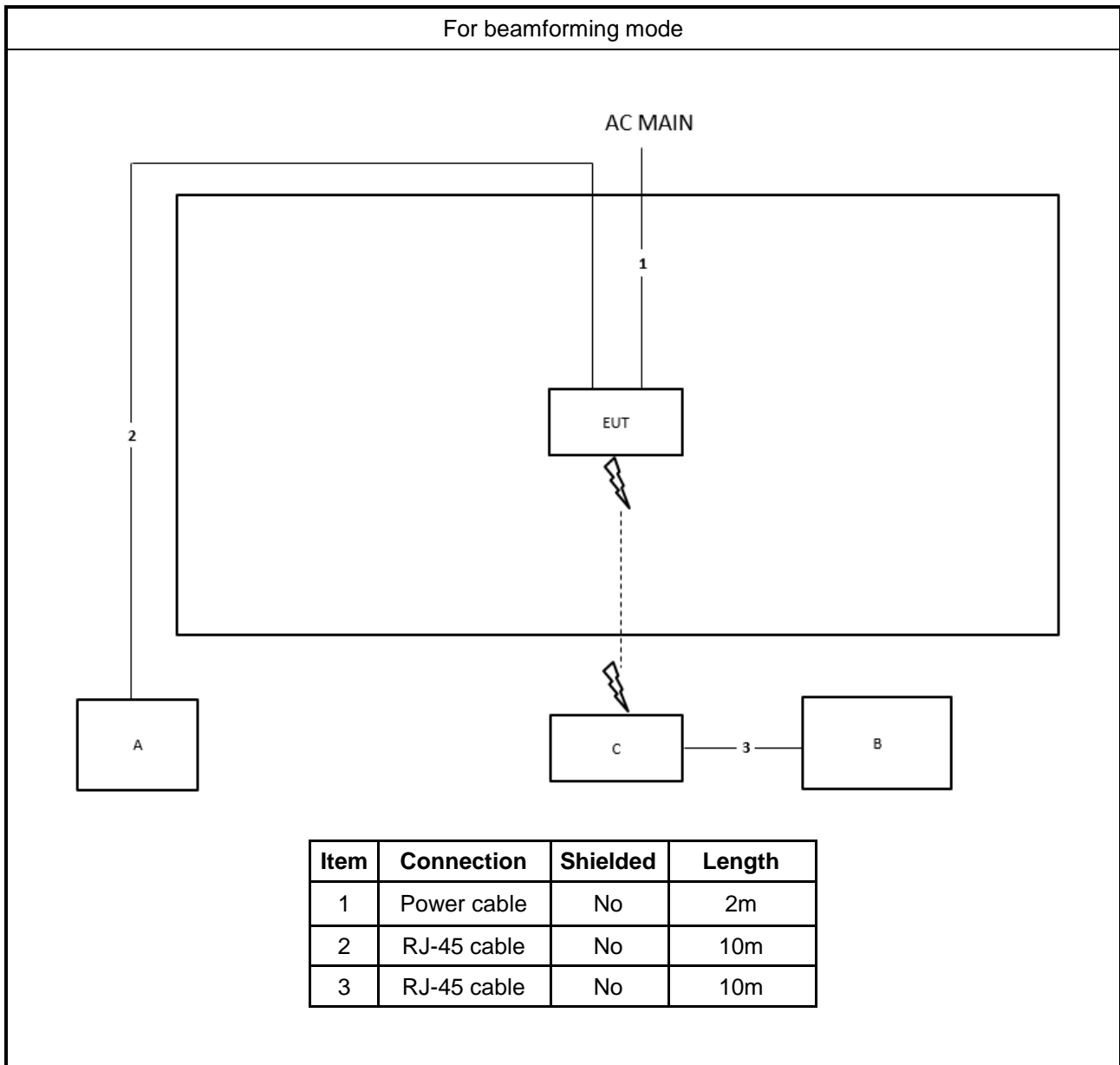
**Test Setup Diagram - Radiated Test > 1GHz**

For non-beamforming mode



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







### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

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

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

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

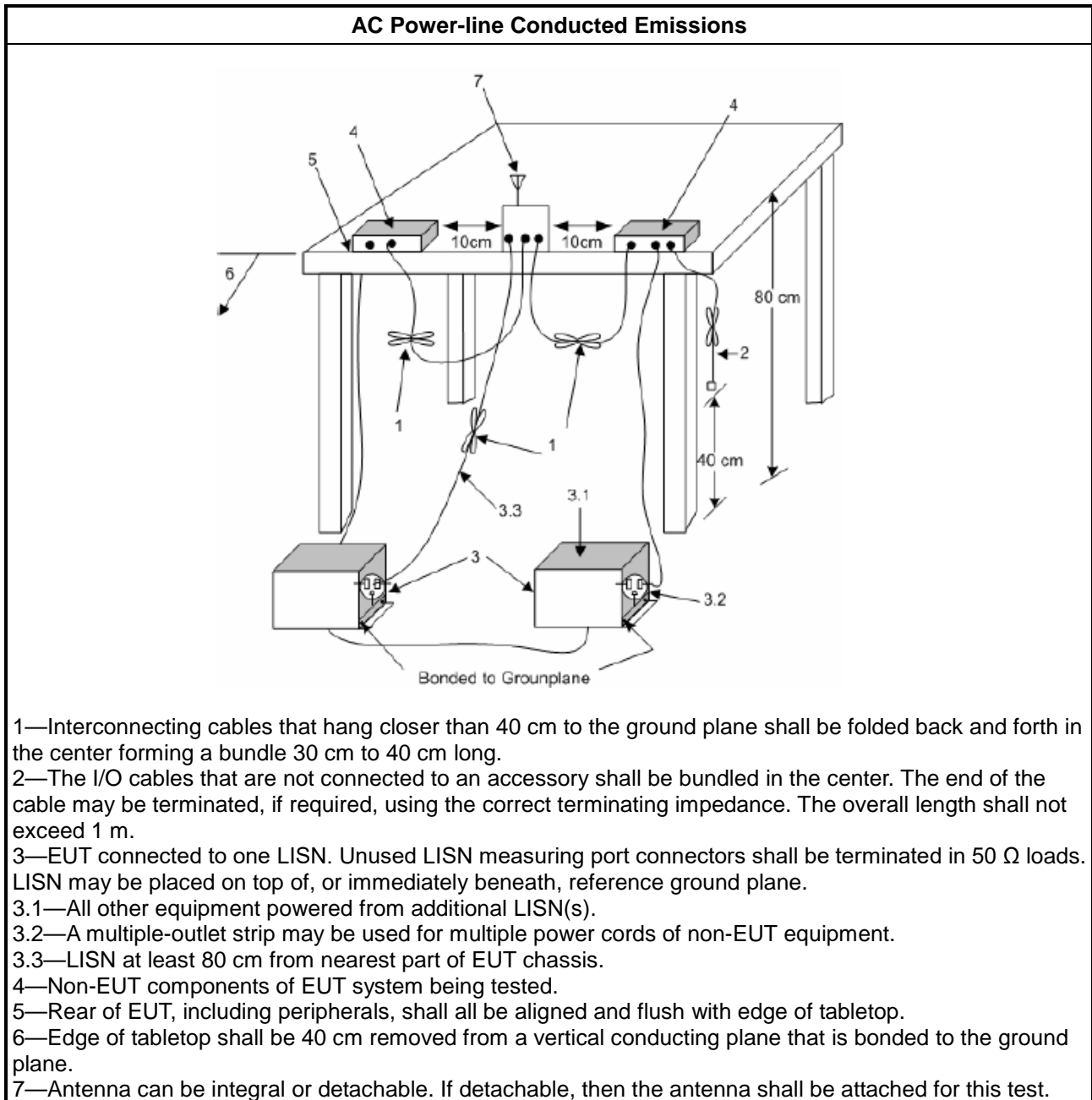
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

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

### 3.1.4 Test Setup



### 3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

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

Refer as Appendix A

### 3.2 DTS Bandwidth

#### 3.2.1 6dB Bandwidth Limit

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

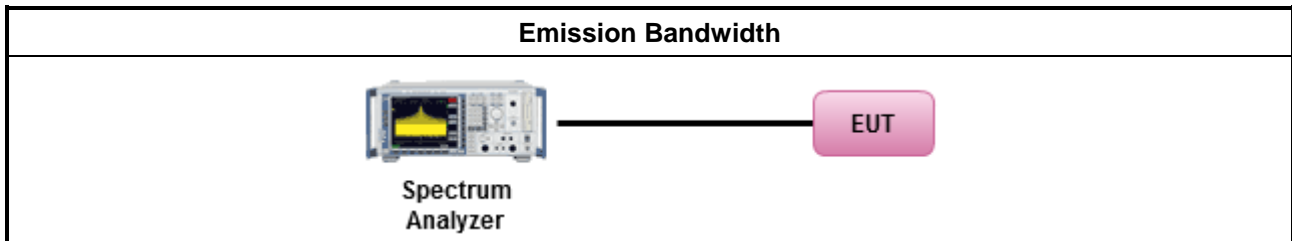
#### 3.2.2 Measuring Instruments

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

#### 3.2.3 Test Procedures

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

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

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

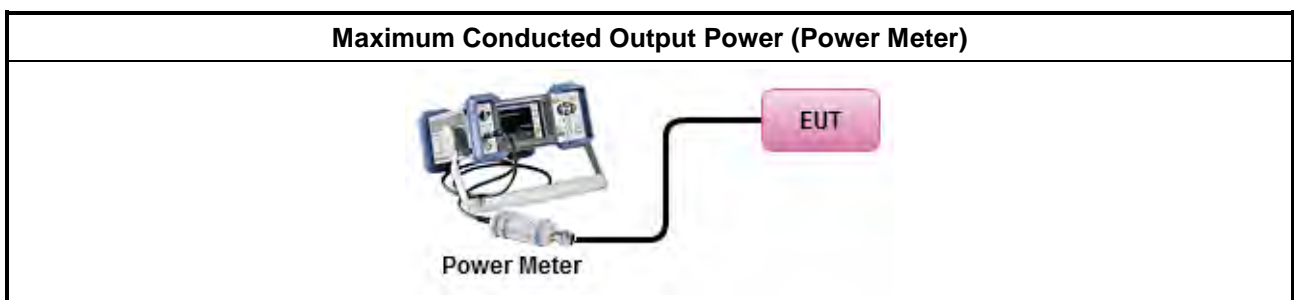
#### 3.3.2 Measuring Instruments

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

**3.3.3 Test Procedures**

Test Method	
<ul style="list-style-type: none"> <li>▪ Maximum Peak Conducted Output Power</li> </ul>	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> <li>▪ Maximum Conducted Output Power</li> </ul>	
[duty cycle ≥ 98% or external video / power trigger]	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
<ul style="list-style-type: none"> <li>▪ For conducted measurement.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If multiple transmit chains, EIRP calculation could be following as methods:  <math>P_{total} = P_1 + P_2 + \dots + P_n</math>            (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>EIRP_{total} = P_{total} + DG</math> </li> </ul>	

**3.3.4 Test Setup**





### **3.3.5 Test Result of Maximum Conducted Output Power**

Refer as Appendix C





### 3.4 Power Spectral Density

#### 3.4.1 Power Spectral Density Limit

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

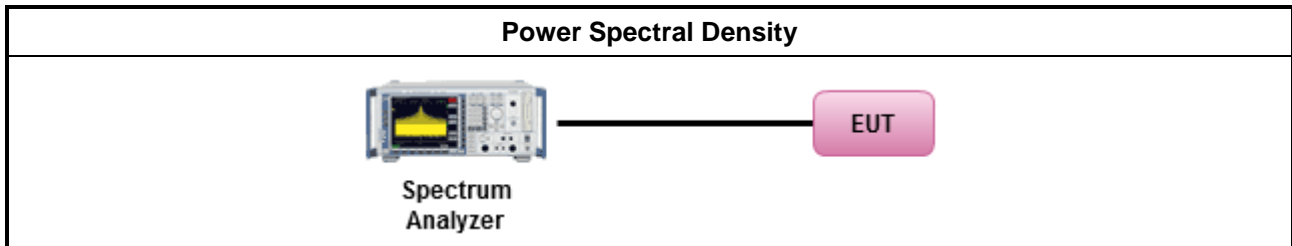
#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

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

### 3.4.4 Test Setup



### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

### 3.5 Emissions in Non-restricted Frequency Bands

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

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

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

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

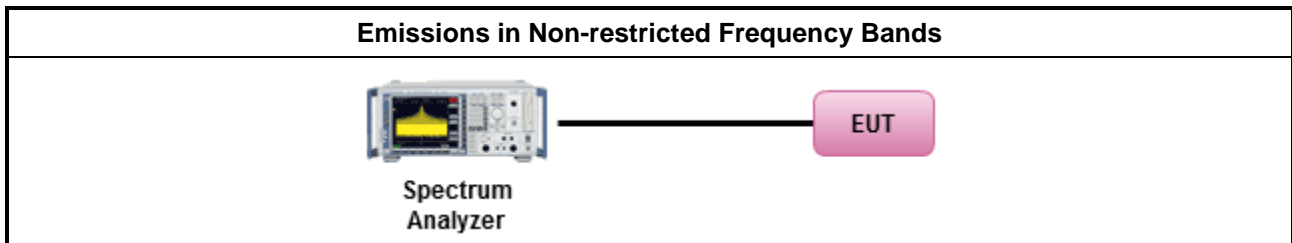
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

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

#### 3.5.4 Test Setup



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

Refer as Appendix E



### 3.6 Emissions in Restricted Frequency Bands

#### 3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

#### 3.6.2 Measuring Instruments

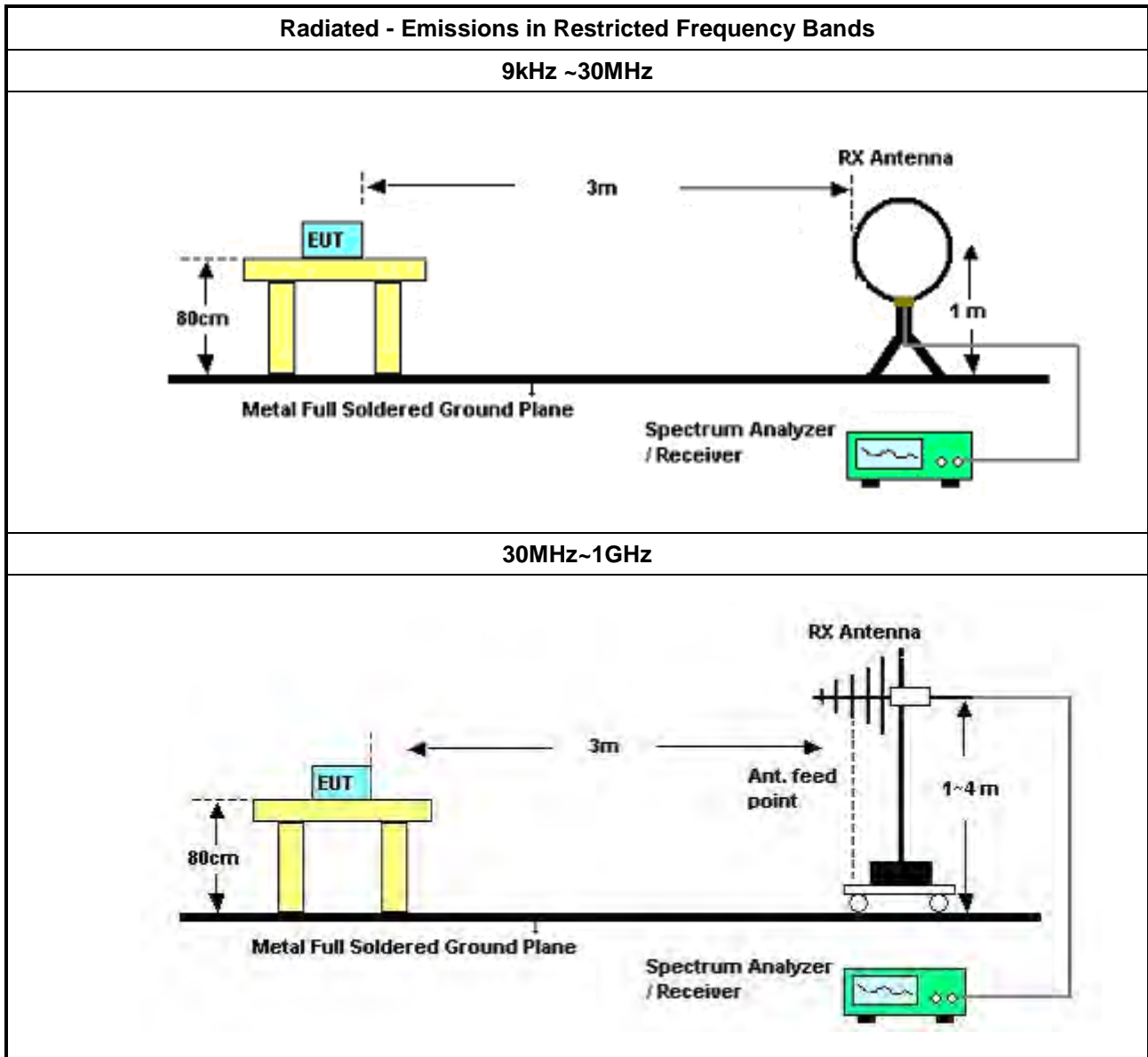
Refer a test equipment and calibration data table in this test report.

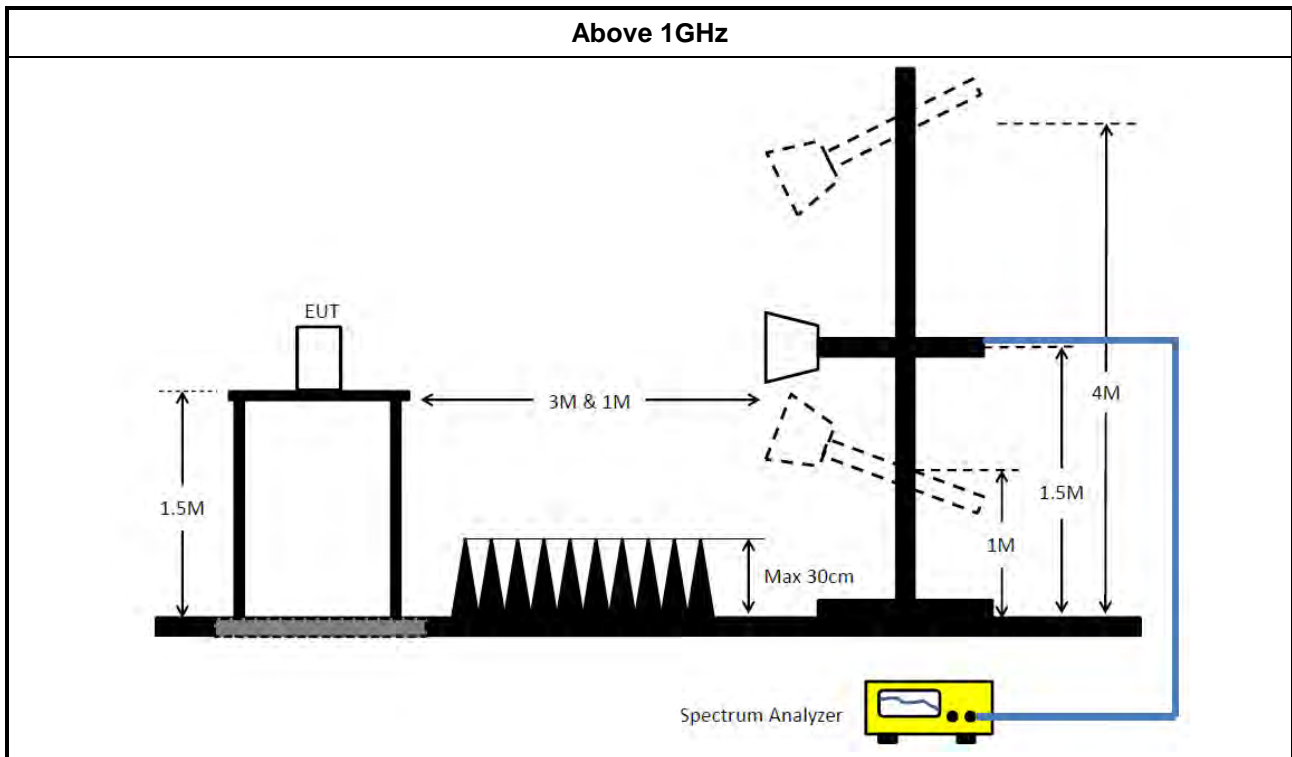


**3.6.3 Test Procedures**

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

**3.6.4 Test Setup**





### 3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

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

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

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

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

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

Refer as Appendix F



## 4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 18, 2022	May 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)





RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 01, 2021	Sep. 30, 2022	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Aug. 04, 2021	Aug. 03, 2022	Radiation (03CH06-CB)



Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	SGH5265	20211115-1	1GHz ~ 26.5GHz	Jan. 19, 2022	Jan. 18, 2023	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 24, 2021	Dec. 23, 2022	Radiation (03CH06-CB)
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	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P1	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P2	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)



RF Cable-high	Woken	RG402	SWI-03-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

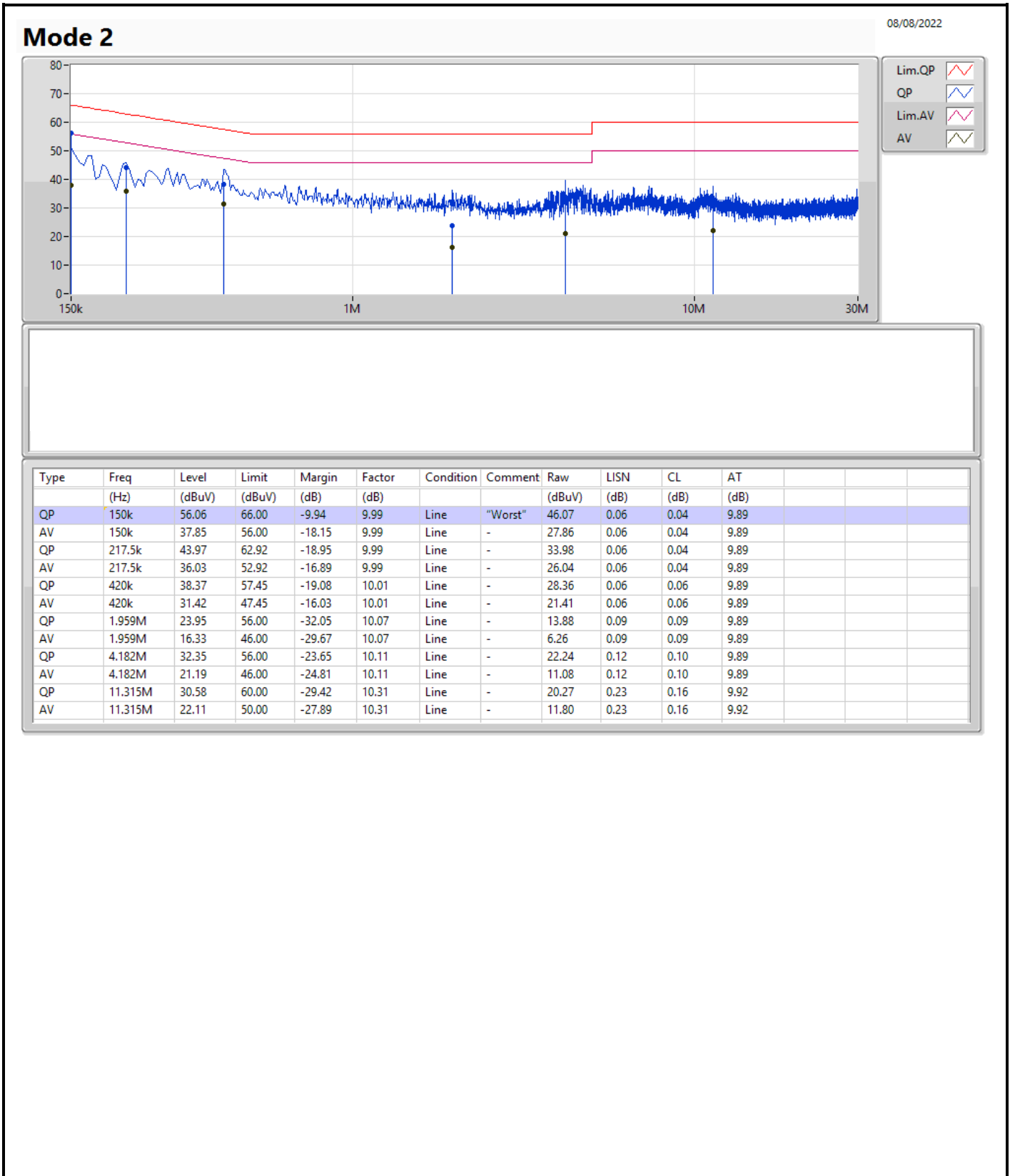
Note: Calibration Interval of instruments listed above is one year.

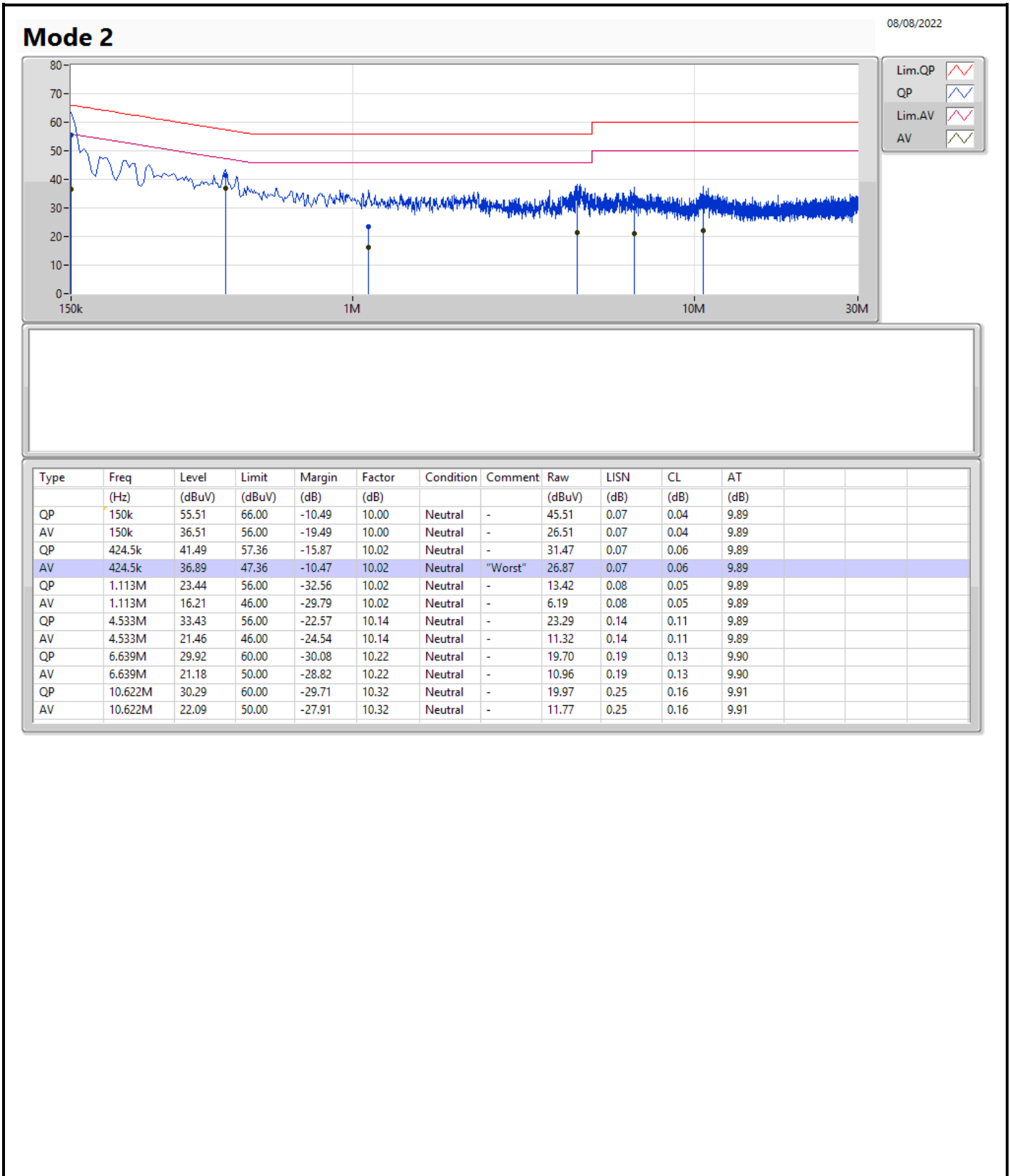
NCR means Non-Calibration required.



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	150k	56.06	66.00	-9.94	Line







**For non beamforming  
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	7.025M	10.72M	10M7G1D	6.525M	10.345M
802.11g_Nss1,(6Mbps)_2TX	16.35M	16.992M	17M0D1D	16.325M	16.742M
802.11ax HEW20_Nss2,(MCS0)_2TX	19.025M	19.115M	19M1D1D	18.9M	18.991M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.8M	37.781M	37M8D1D	37.5M	37.681M

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

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	6.525M	10.395M	6.575M	10.345M
2417MHz						
2437MHz	Pass	500k	7.025M	10.62M	7.025M	10.72M
2457MHz						
2462MHz	Pass	500k	7M	10.395M	7.025M	10.37M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.35M	16.742M	16.35M	16.817M
2417MHz						
2437MHz	Pass	500k	16.35M	16.942M	16.325M	16.992M
2457MHz						
2462MHz	Pass	500k	16.35M	16.767M	16.35M	16.767M
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	19.025M	19.015M	18.95M	18.991M
2417MHz						
2437MHz	Pass	500k	18.95M	19.115M	18.9M	19.115M
2457MHz						
2462MHz	Pass	500k	19.025M	18.991M	18.975M	19.04M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.6M	37.731M	37.7M	37.681M
2427MHz						
2437MHz	Pass	500k	37.5M	37.781M	37.6M	37.681M
2452MHz	Pass	500k	37.8M	37.781M	37.55M	37.781M

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

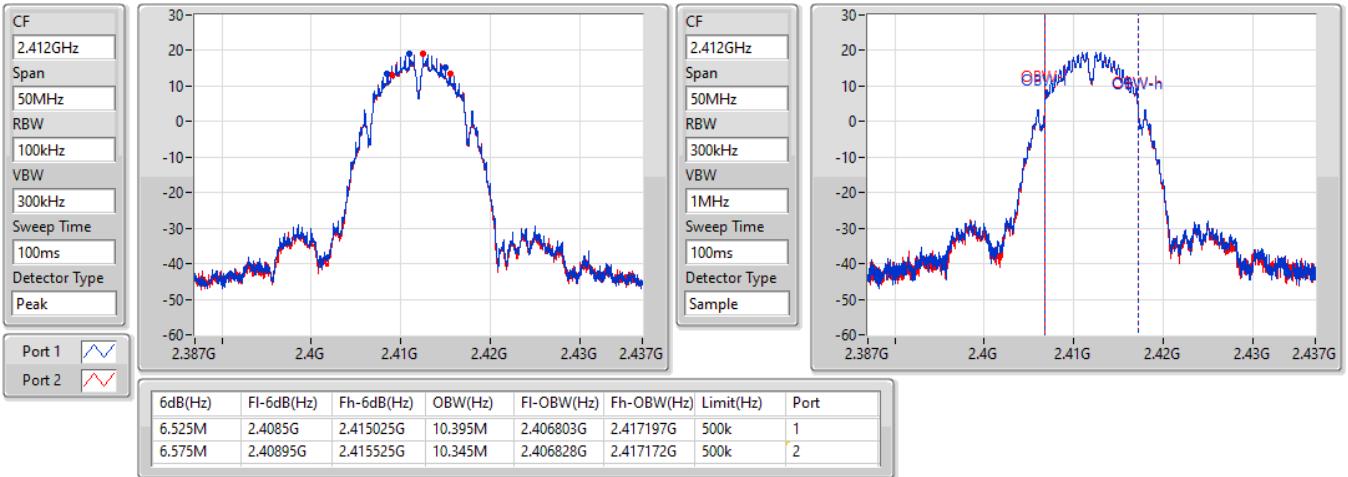


### 802.11b\_Nss1,(1Mbps)\_2TX

EBW

2412MHz

30/06/2022

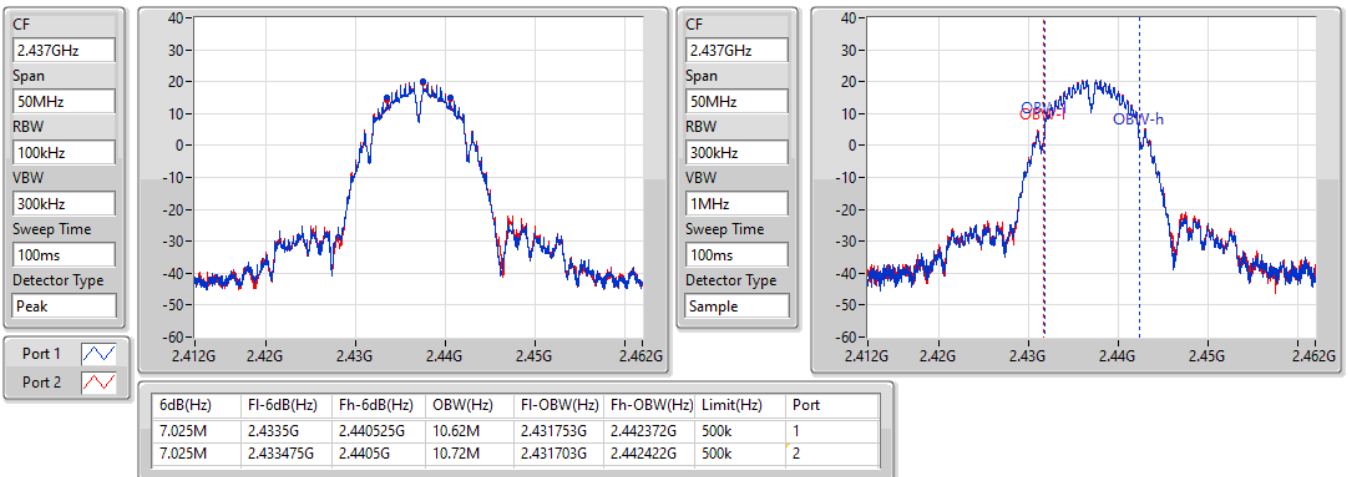


### 802.11b\_Nss1,(1Mbps)\_2TX

EBW

2437MHz

30/06/2022

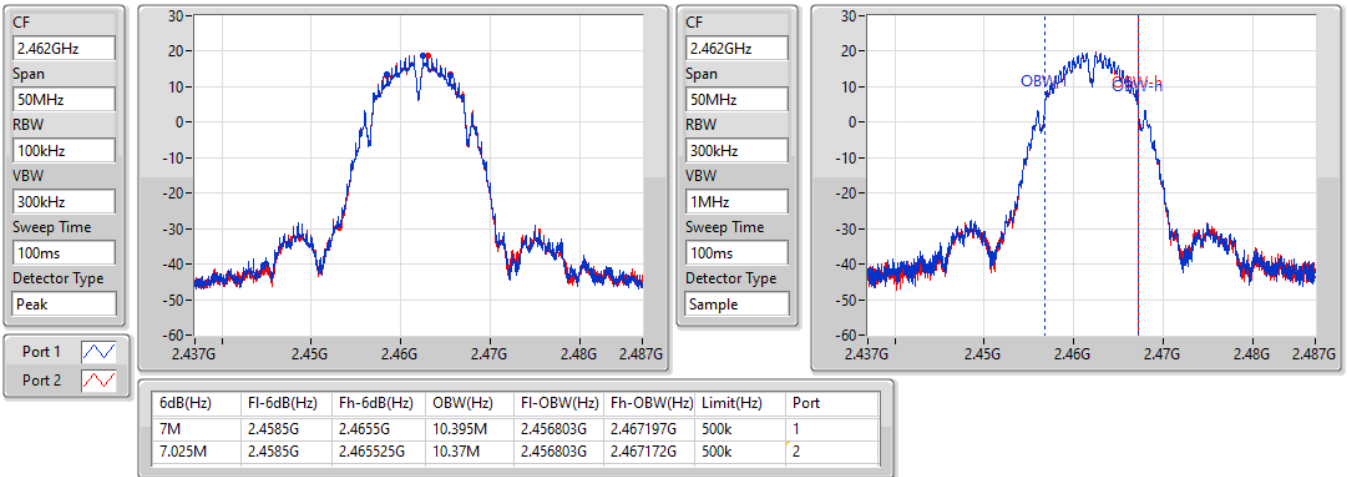


### 802.11b\_Nss1,(1Mbps)\_2TX

EBW

2462MHz

30/06/2022

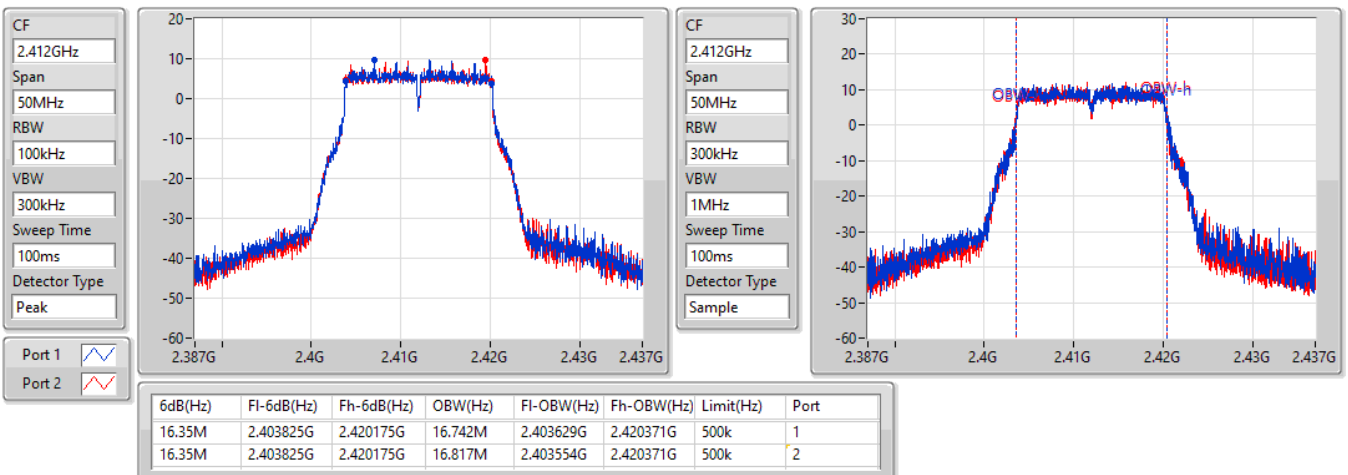


### 802.11g\_Nss1,(6Mbps)\_2TX

EBW

2412MHz

30/06/2022

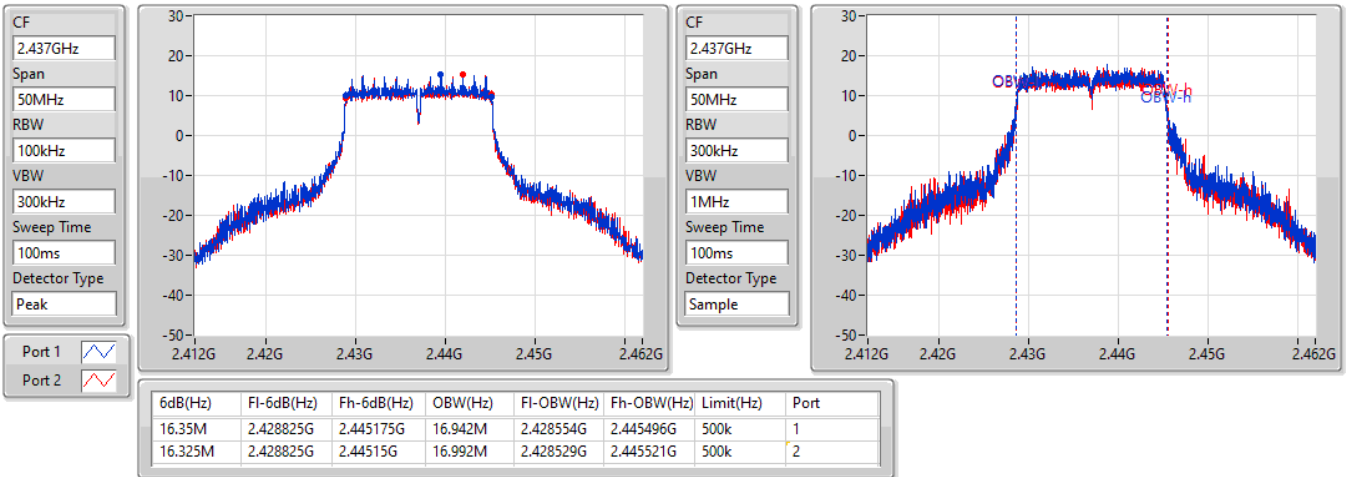


### 802.11g\_Nss1,(6Mbps)\_2TX

EBW

2437MHz

30/06/2022

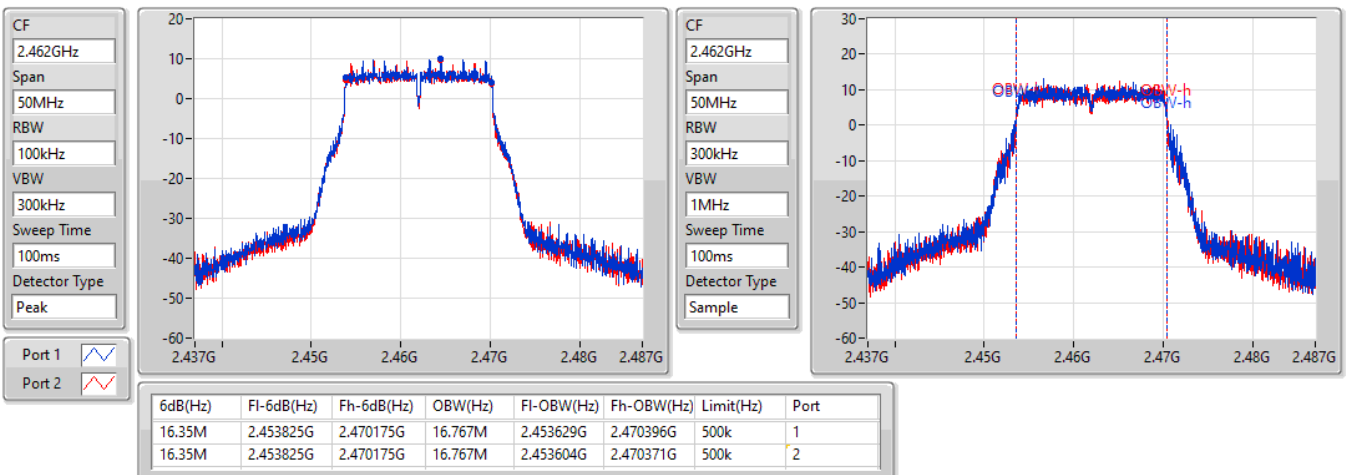


### 802.11g\_Nss1,(6Mbps)\_2TX

EBW

2462MHz

30/06/2022

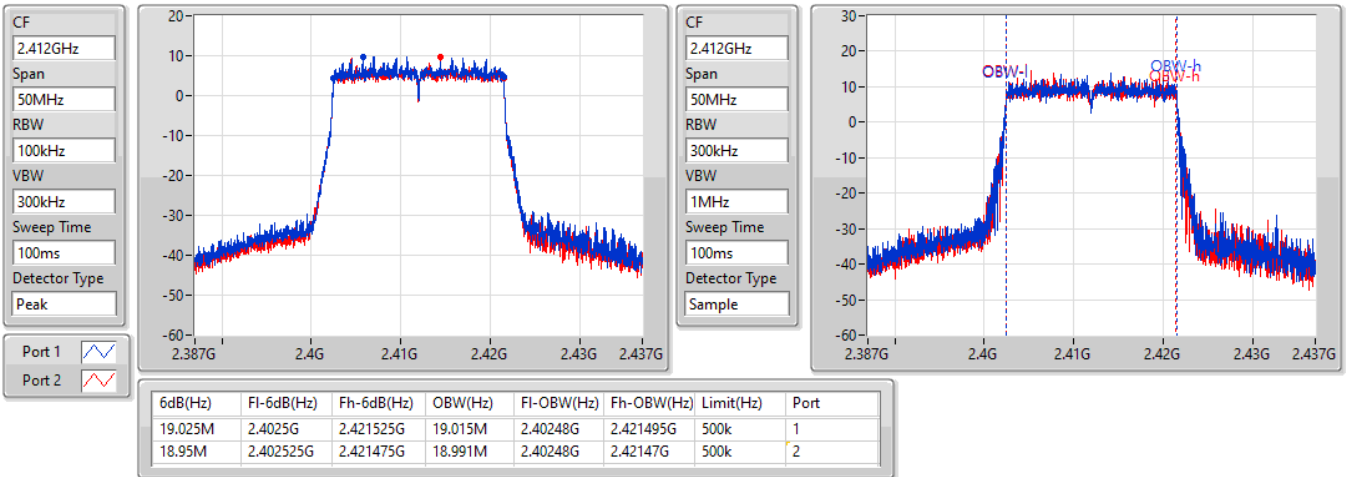


802.11ax HEW20\_Nss2,(MCS0)\_2TX

EBW

2412MHz

30/06/2022

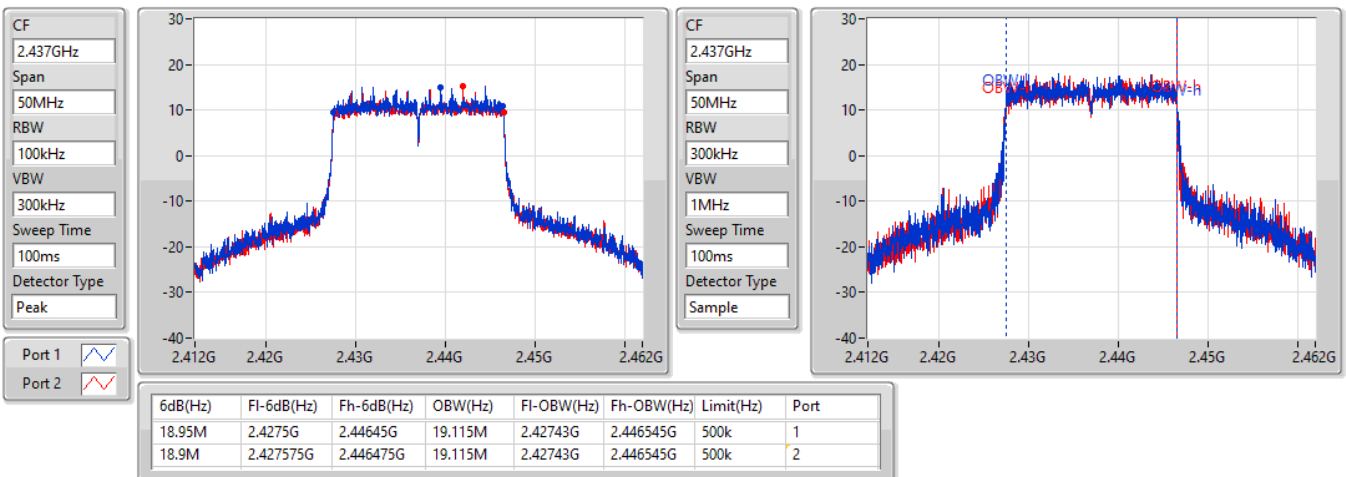


802.11ax HEW20\_Nss2,(MCS0)\_2TX

EBW

2437MHz

30/06/2022

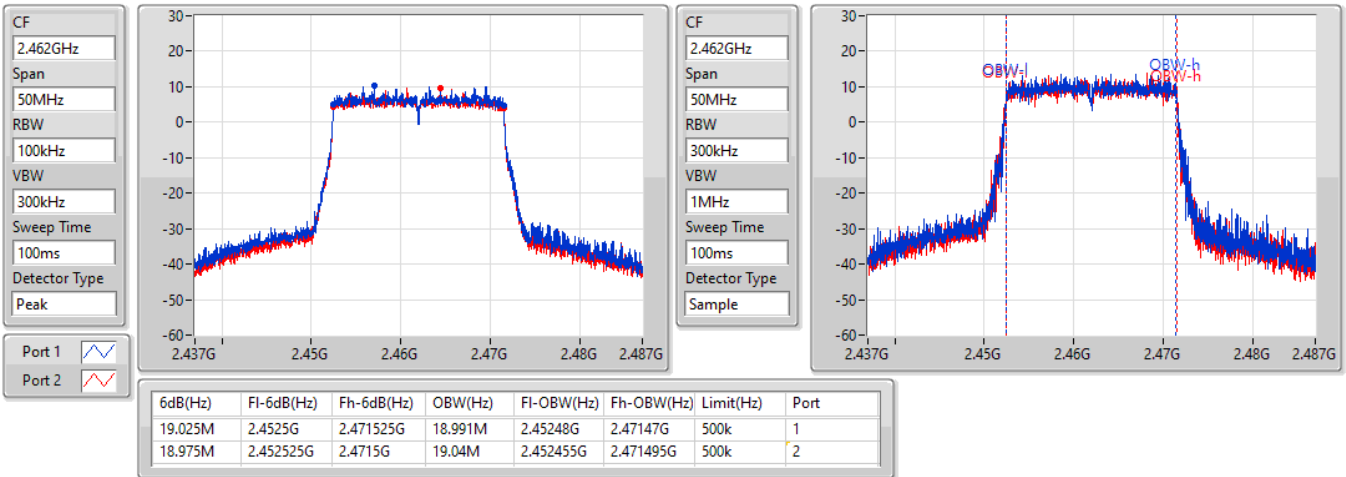


### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

EBW

2462MHz

30/06/2022

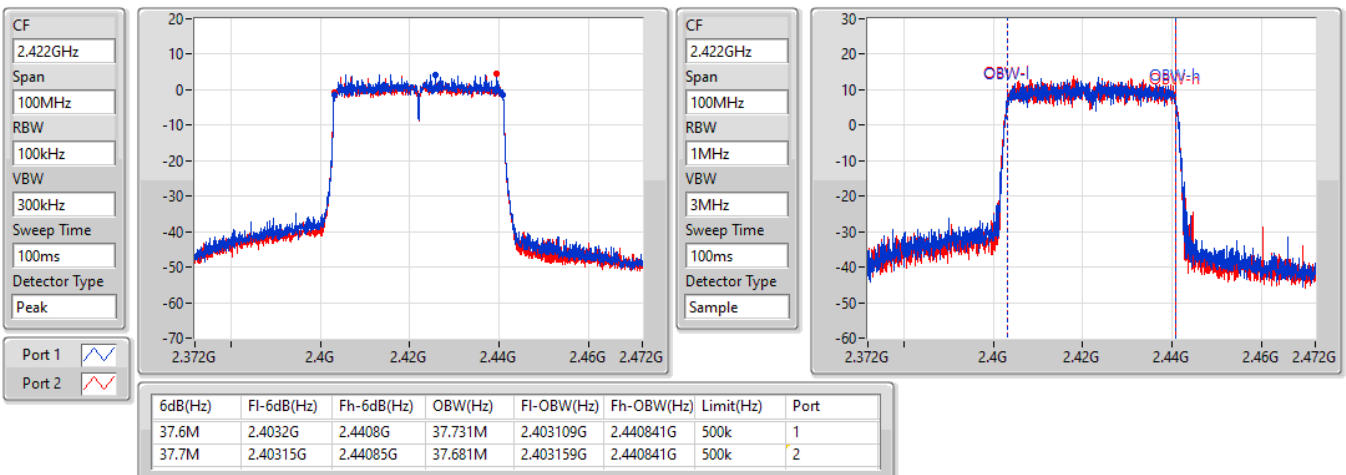


### 802.11ax HEW40\_Nss2,(MCS0)\_2TX

EBW

2422MHz

30/06/2022

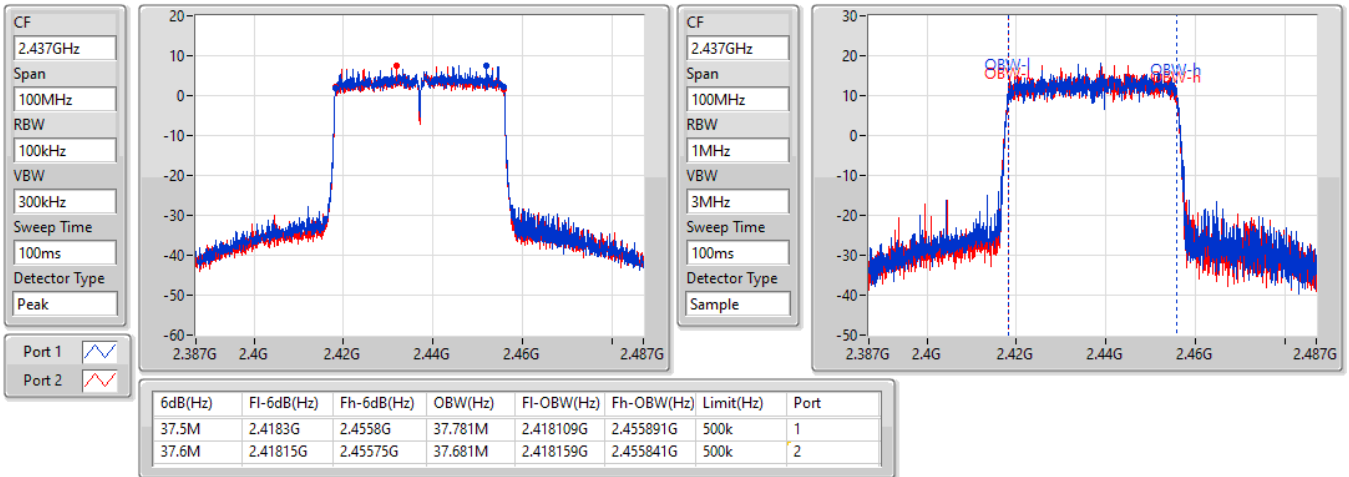


802.11ax HEW40\_Nss2,(MCS0)\_2TX

EBW

2437MHz

30/06/2022

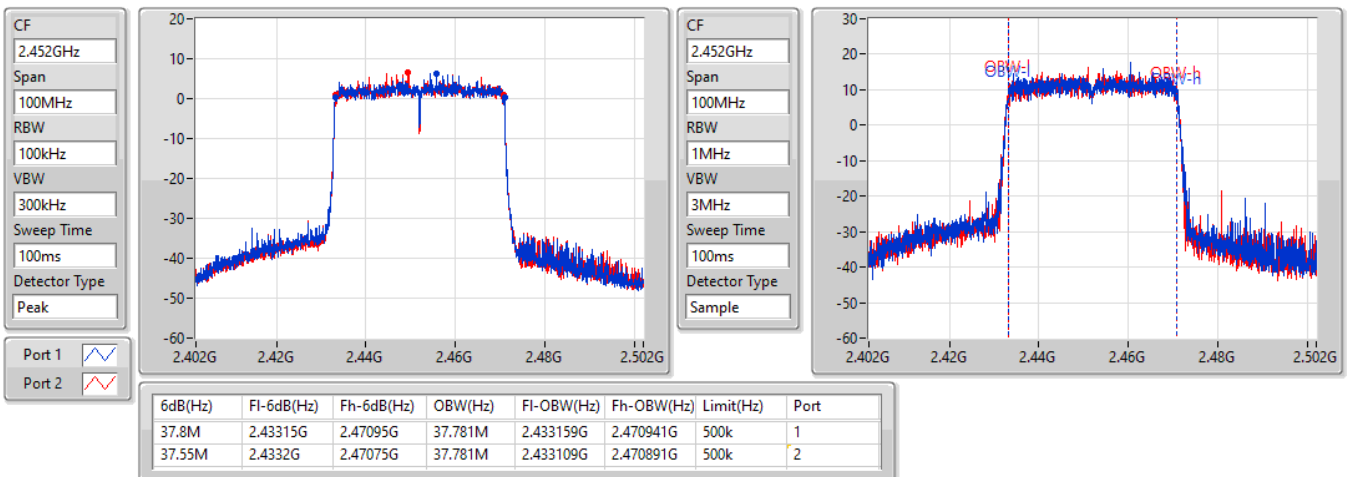


802.11ax HEW40\_Nss2,(MCS0)\_2TX

EBW

2452MHz

30/06/2022



**For beamforming  
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	19.025M	19.115M	19M1D1D	18.825M	18.991M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.6M	37.781M	37M8D1D	36.9M	37.731M

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

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	19.025M	19.04M	18.825M	19.015M
2437MHz	Pass	500k	18.975M	19.115M	18.925M	19.065M
2462MHz	Pass	500k	19.025M	19.015M	18.975M	18.991M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.55M	37.781M	37.6M	37.731M
2437MHz	Pass	500k	37.5M	37.781M	36.9M	37.731M
2452MHz	Pass	500k	37.35M	37.781M	37.5M	37.731M

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

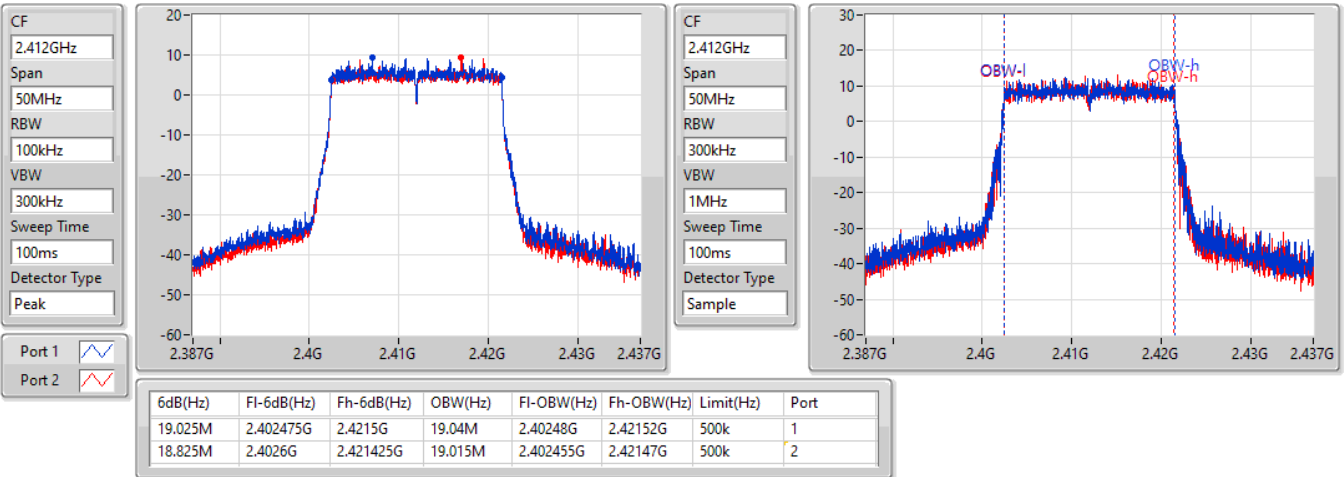


802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

EBW

2412MHz

30/06/2022

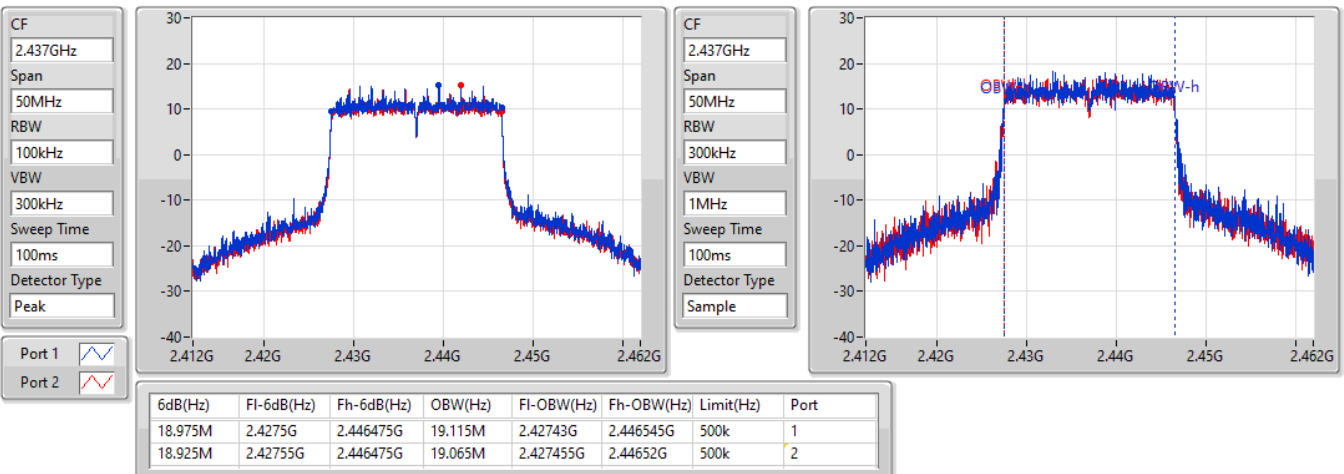


802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

EBW

2437MHz

30/06/2022

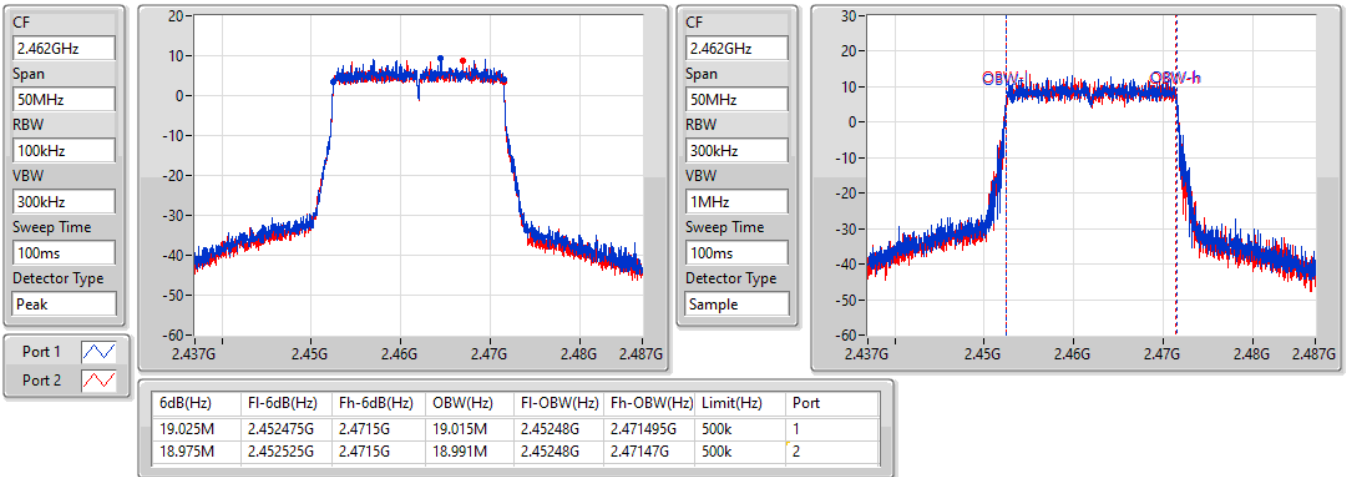


### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

EBW

2462MHz

30/06/2022

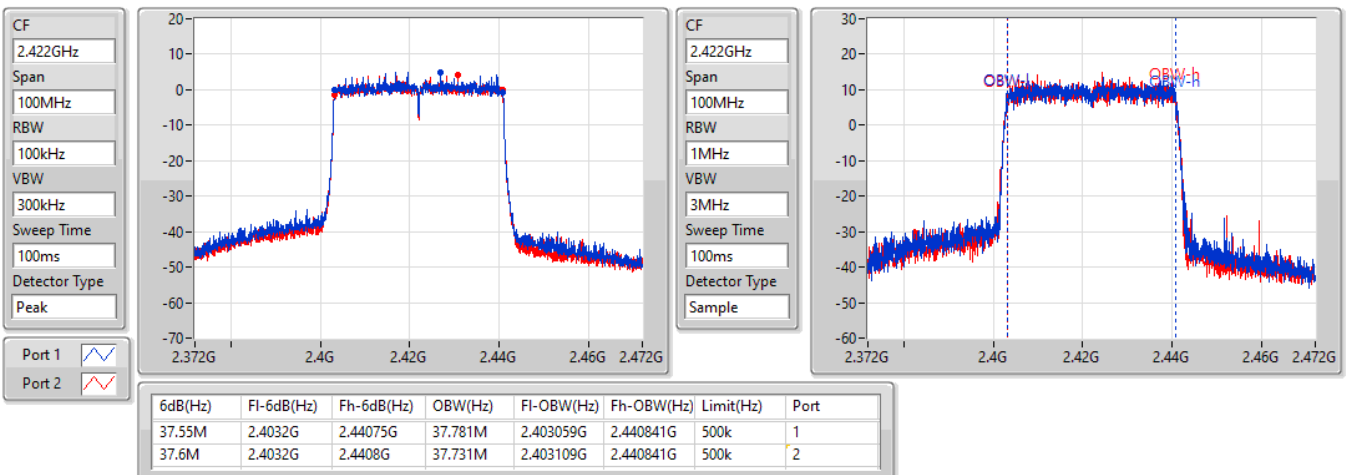


### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

EBW

2422MHz

30/06/2022

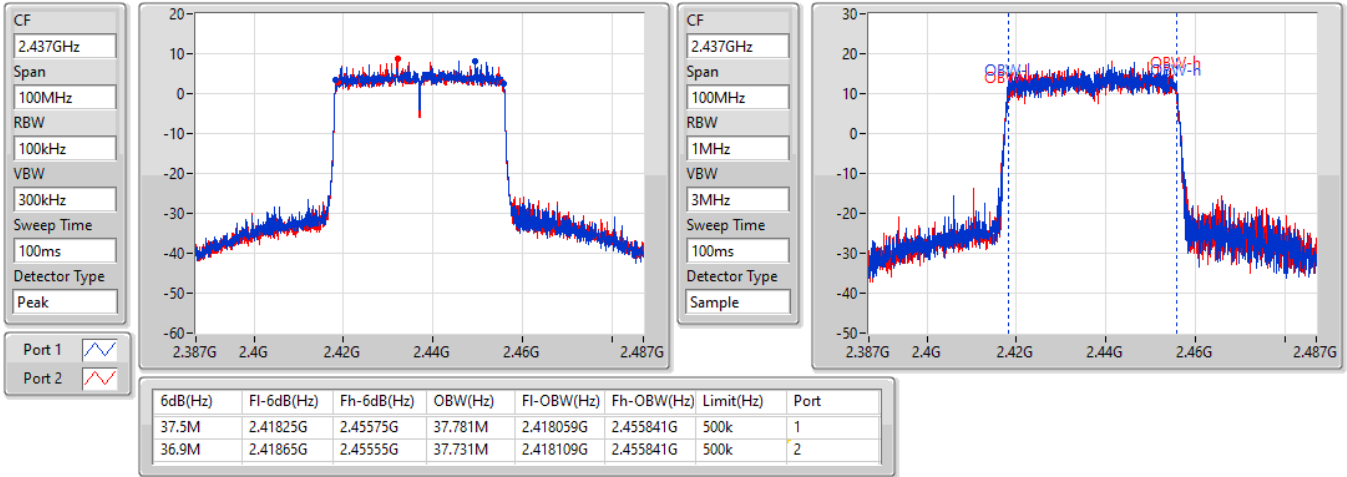


802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

EBW

2437MHz

30/06/2022

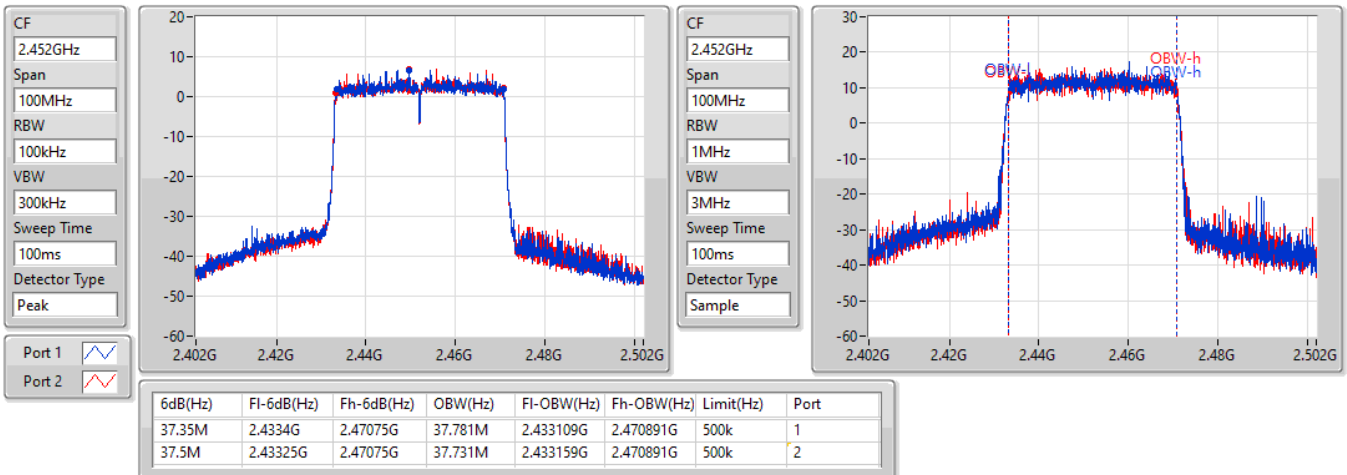


802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

EBW

2452MHz

30/06/2022





**For non beamforming  
Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	29.79	0.95280
802.11g_Nss1,(6Mbps)_2TX	29.57	0.90573
802.11ax HEW20_Nss2,(MCS0)_2TX	29.54	0.89950
802.11ax HEW40_Nss2,(MCS0)_2TX	25.32	0.34041



**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.71	26.76	26.73	29.76	30.00
2437MHz	Pass	1.71	26.79	26.77	29.79	30.00
2462MHz	Pass	1.71	26.72	26.62	29.68	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.71	21.35	21.21	24.29	30.00
2417MHz	Pass	1.71	21.65	21.81	24.74	30.00
2437MHz	Pass	1.71	26.65	26.46	29.57	30.00
2457MHz	Pass	1.71	22.06	21.81	24.95	30.00
2462MHz	Pass	1.71	21.45	21.32	24.40	30.00
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.67	21.48	21.52	24.51	30.00
2417MHz	Pass	1.67	22.81	22.73	25.78	30.00
2437MHz	Pass	1.67	26.59	26.46	29.54	30.00
2457MHz	Pass	1.67	22.49	22.38	25.45	30.00
2462MHz	Pass	1.67	21.94	21.87	24.92	30.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	1.67	19.44	19.27	22.37	30.00
2427MHz	Pass	1.67	19.63	19.57	22.61	30.00
2437MHz	Pass	1.67	22.38	22.23	25.32	30.00
2452MHz	Pass	1.67	21.09	21.02	24.07	30.00

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



**For beamforming  
Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	29.51	0.89331
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.73	0.37411



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.68	21.35	21.14	24.26	30.00
2417MHz	Pass	4.68	22.77	22.86	25.83	30.00
2437MHz	Pass	4.68	26.60	26.39	29.51	30.00
2457MHz	Pass	4.68	21.81	21.42	24.63	30.00
2462MHz	Pass	4.68	21.32	20.89	24.12	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.68	19.37	19.25	22.32	30.00
2427MHz	Pass	4.68	19.67	19.55	22.62	30.00
2437MHz	Pass	4.68	22.67	22.76	25.73	30.00
2452MHz	Pass	4.68	21.17	21.29	24.24	30.00

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

**For non beamforming  
Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	6.56
802.11g_Nss1,(6Mbps)_2TX	3.78
802.11ax HEW20_Nss2,(MCS0)_2TX	2.80
802.11ax HEW40_Nss2,(MCS0)_2TX	-3.94

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.68	5.22	4.80	6.54	8.00
2437MHz	Pass	4.68	3.81	4.56	6.56	8.00
2462MHz	Pass	4.68	4.31	4.33	6.52	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.68	-4.57	-4.67	-2.13	8.00
2437MHz	Pass	4.68	1.97	2.09	3.78	8.00
2462MHz	Pass	4.68	-4.25	-4.36	-1.91	8.00
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.67	-5.48	-5.17	-2.76	8.00
2437MHz	Pass	1.67	0.40	0.46	2.80	8.00
2462MHz	Pass	1.67	-4.99	-4.48	-2.19	8.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	1.67	-9.43	-8.93	-6.90	8.00
2437MHz	Pass	1.67	-6.49	-6.48	-3.94	8.00
2452MHz	Pass	1.67	-8.04	-7.82	-5.52	8.00

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

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

### PSD

2412MHz

16/06/2022

CF  
2.412GHz

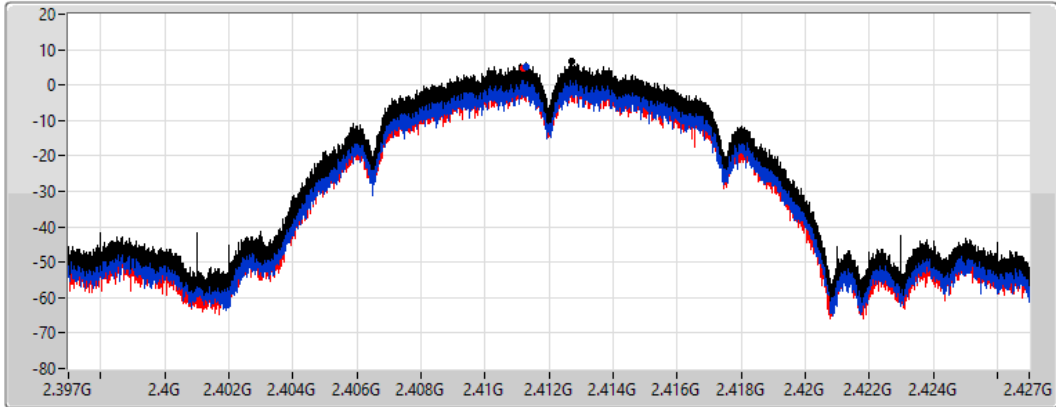
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.54	6.54	5.22	4.80

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

### PSD

2437MHz

16/06/2022

CF  
2.437GHz

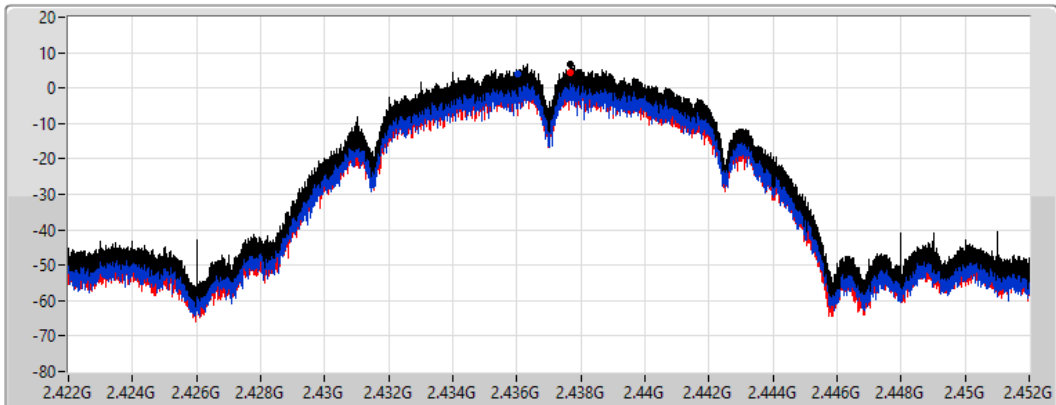
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.56	6.56	3.81	4.56

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

### PSD

2462MHz

16/06/2022

CF  
2.462GHz

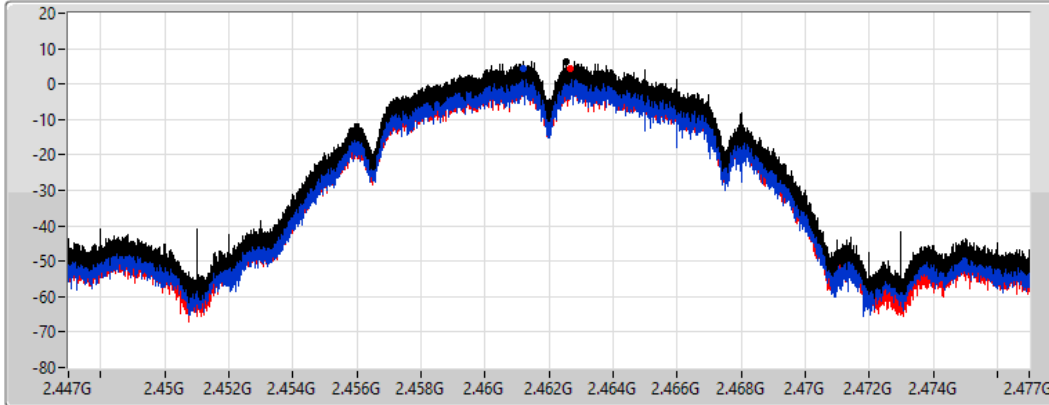
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.52	6.52	4.31	4.33

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

### PSD

2412MHz

16/06/2022

CF  
2.412GHz

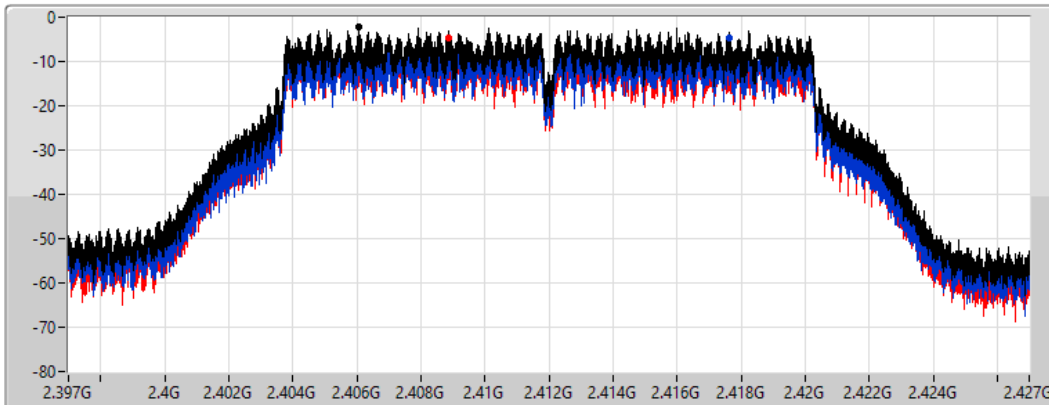
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.13	-2.13	-4.57	-4.67

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

### PSD

2437MHz

16/06/2022

CF  
2.437GHz

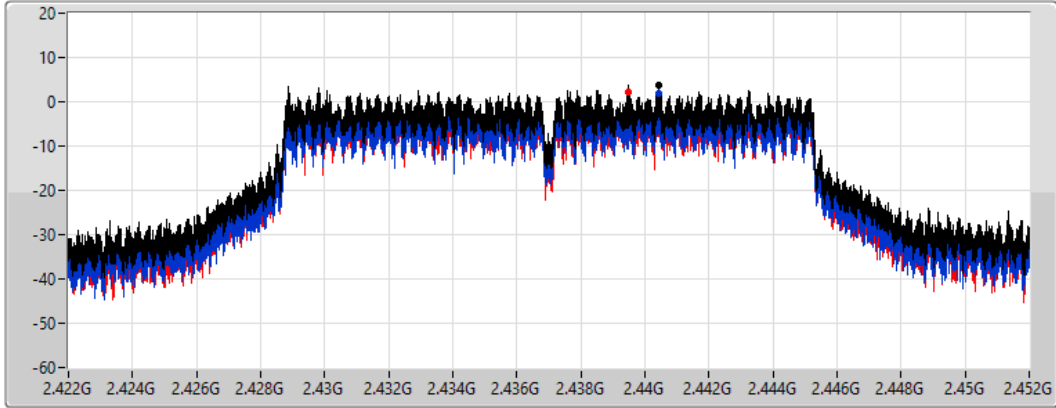
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.78	3.78	1.97	2.09

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

### PSD

2462MHz

16/06/2022

CF  
2.462GHz

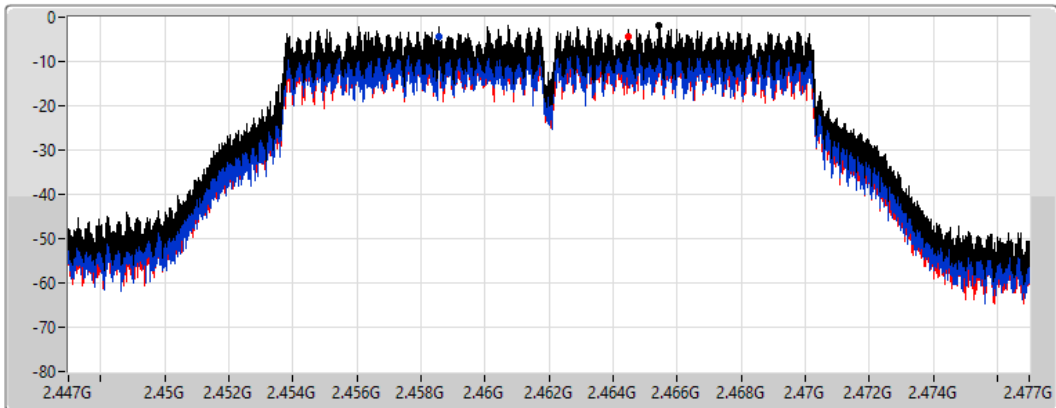
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

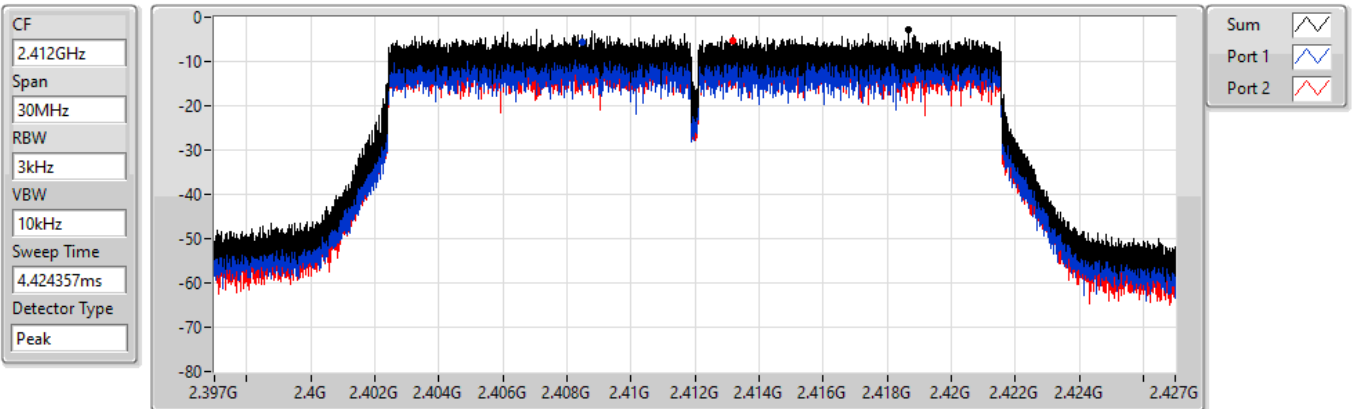
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.91	-1.91	-4.25	-4.36

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

PSD

#### 2412MHz

16/06/2022



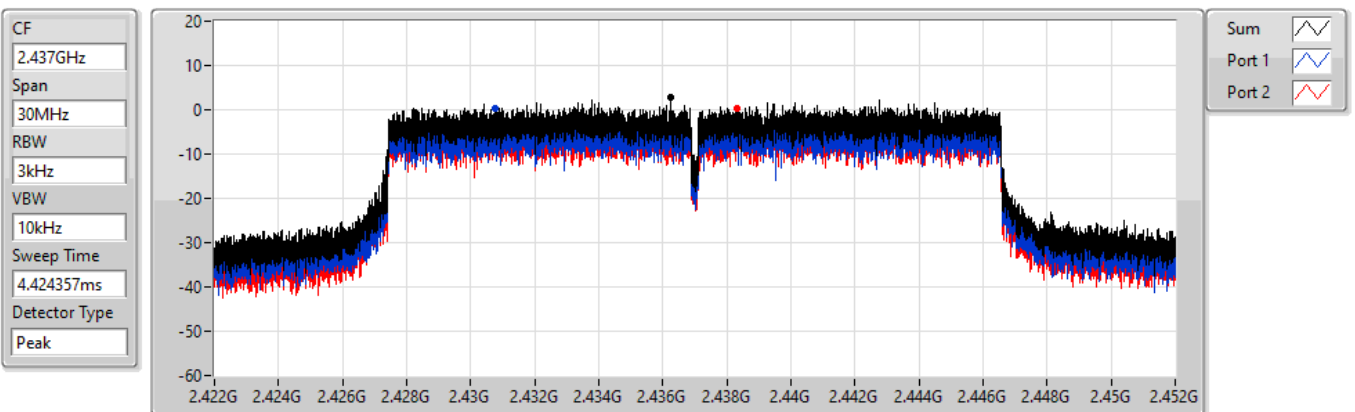
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.76	-2.76	-5.48	-5.17

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

PSD

#### 2437MHz

16/06/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.80	2.80	0.40	0.46

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

PSD

2462MHz

16/06/2022

CF  
2.462GHz

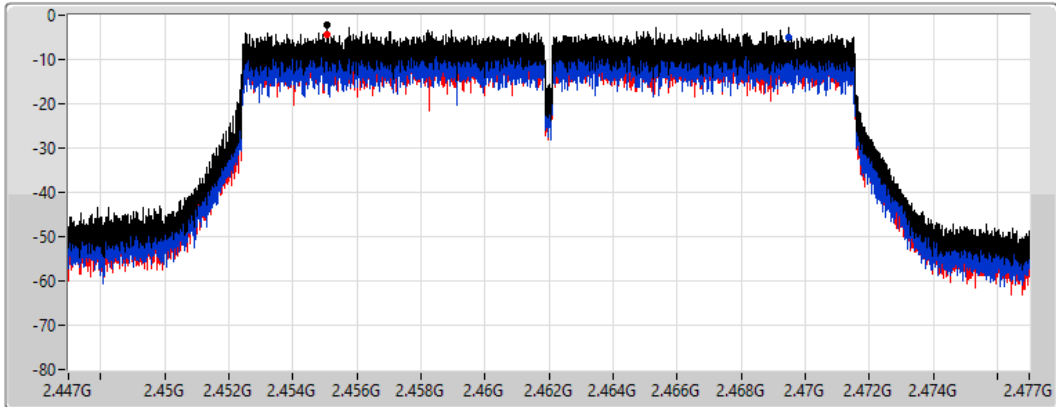
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.19	-2.19	-4.99	-4.48

### 802.11ax HEW40\_Nss2,(MCS0)\_2TX

PSD

2422MHz

16/06/2022

CF  
2.422GHz

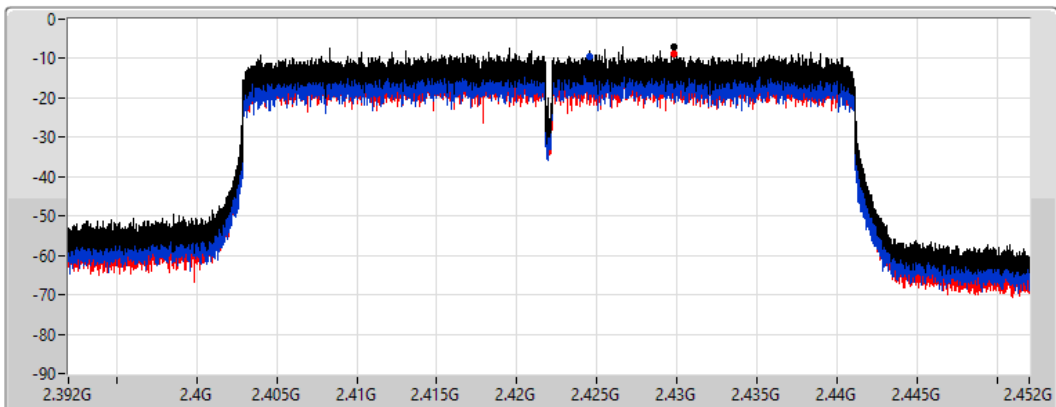
Span  
60MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
8.848933ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.90	-6.90	-9.43	-8.93

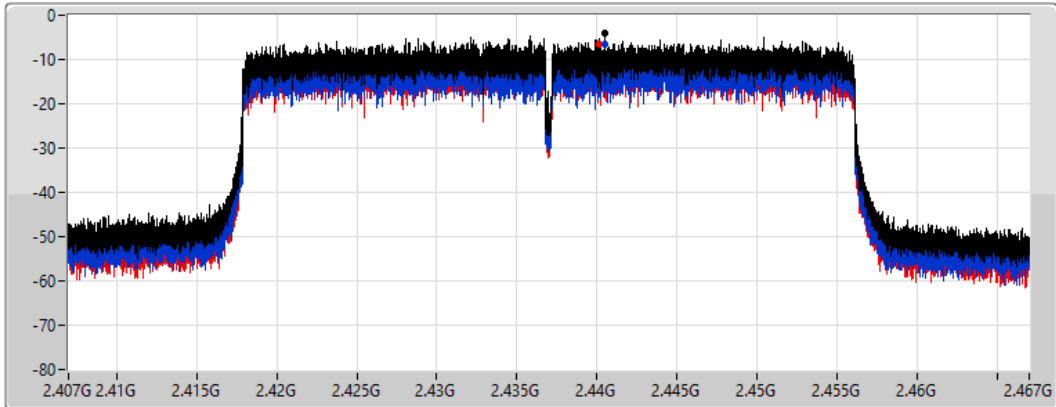
### 802.11ax HEW40\_Nss2,(MCS0)\_2TX




### PSD

#### 2437MHz

16/06/2022

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



Sum   
Port 1   
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.94	-3.94	-6.49	-6.48

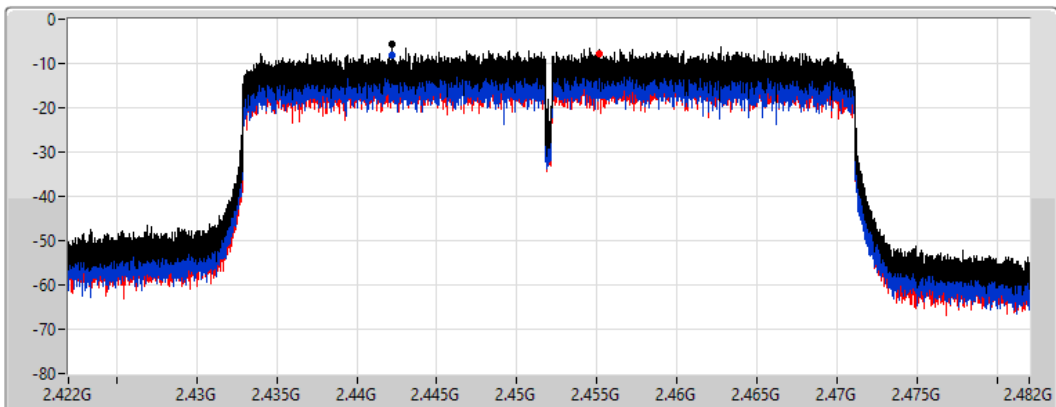
### 802.11ax HEW40\_Nss2,(MCS0)\_2TX




### PSD

#### 2452MHz

16/06/2022

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



Sum   
Port 1   
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.52	-5.52	-8.04	-7.82



**For beamforming  
Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	2.28
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-3.54

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.68	-5.24	-5.97	-3.35	8.00
2437MHz	Pass	4.68	0.91	0.46	2.28	8.00
2462MHz	Pass	4.68	-5.77	-5.86	-3.41	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.68	-10.27	-9.72	-7.66	8.00
2437MHz	Pass	4.68	-6.48	-6.09	-3.54	8.00
2452MHz	Pass	4.68	-7.84	-7.46	-4.64	8.00

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

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

### PSD

2412MHz

30/06/2022

CF  
2.412GHz

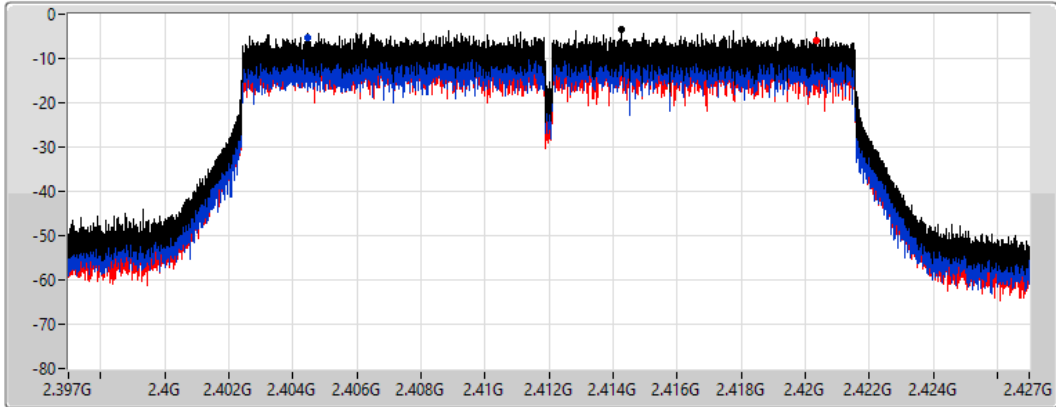
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.35	-3.35	-5.24	-5.97

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

### PSD

2437MHz

30/06/2022

CF  
2.437GHz

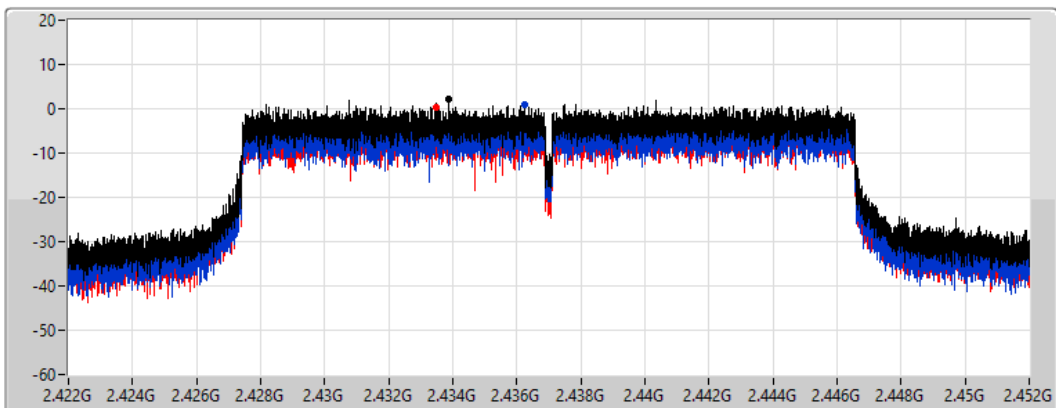
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.28	2.28	0.91	0.46

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

PSD

2462MHz

30/06/2022

CF  
2.462GHz

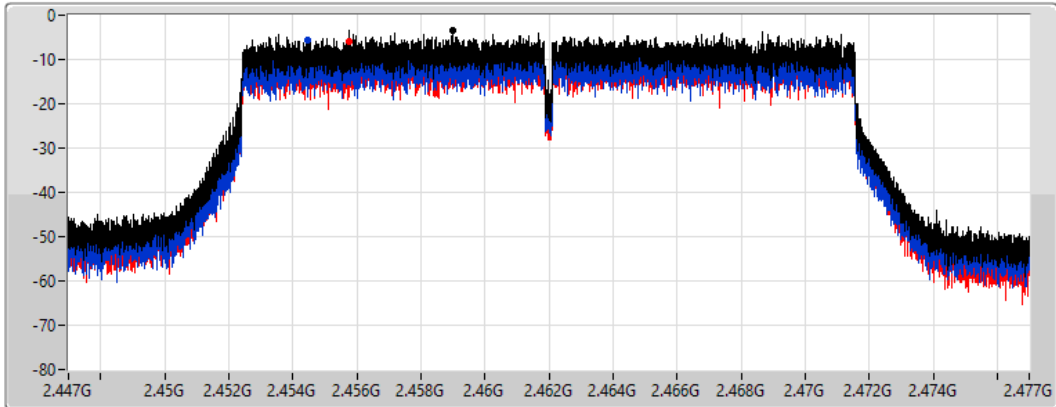
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.41	-3.41	-5.77	-5.86

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

PSD

2422MHz

30/06/2022

CF  
2.422GHz

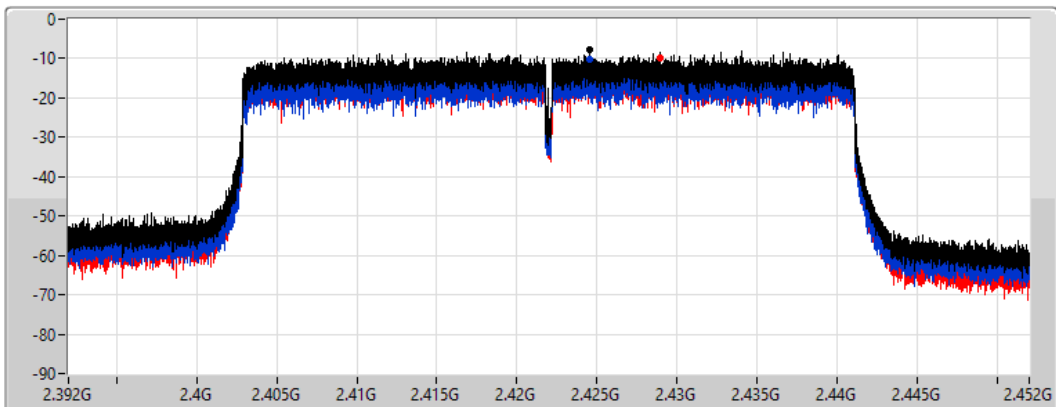
Span  
60MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
8.848933ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.66	-7.66	-10.27	-9.72

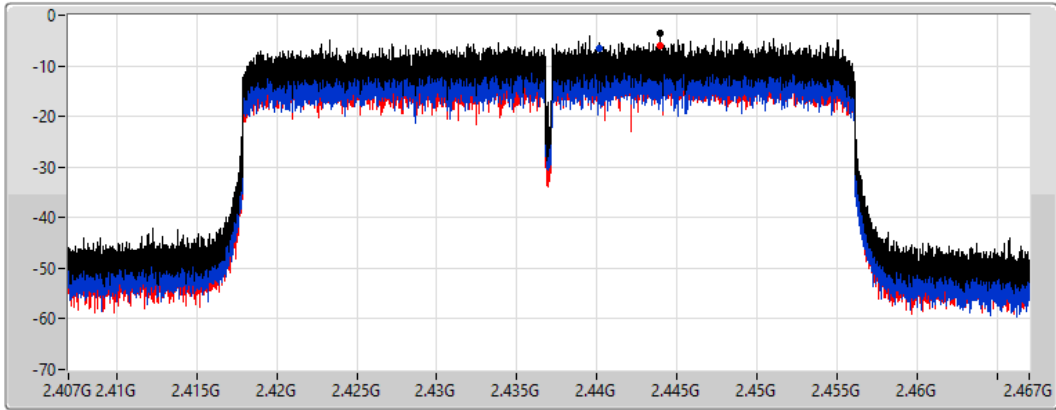
### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX




### PSD

2437MHz

30/06/2022

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



Sum   
Port 1   
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.54	-3.54	-6.48	-6.09

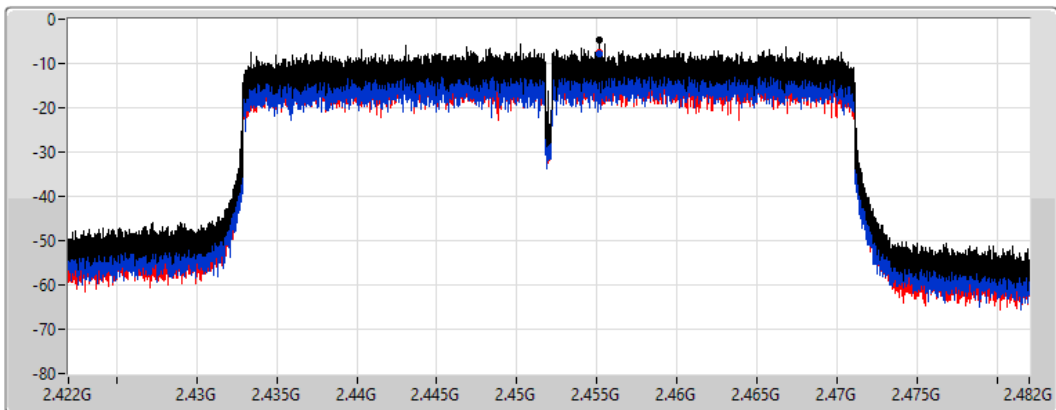
### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX




### PSD

2452MHz

30/06/2022

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



Sum   
Port 1   
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.64	-4.64	-7.84	-7.46



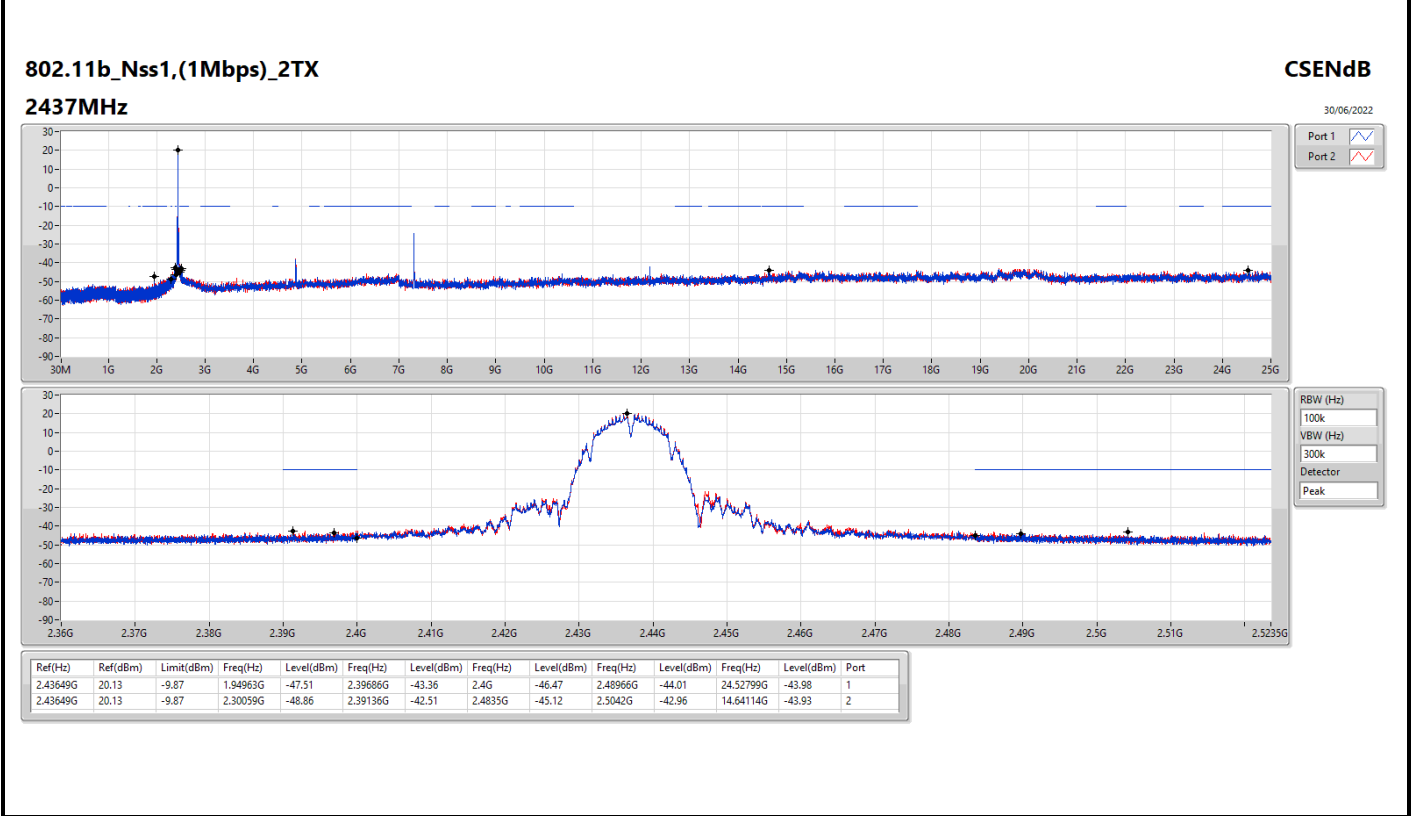
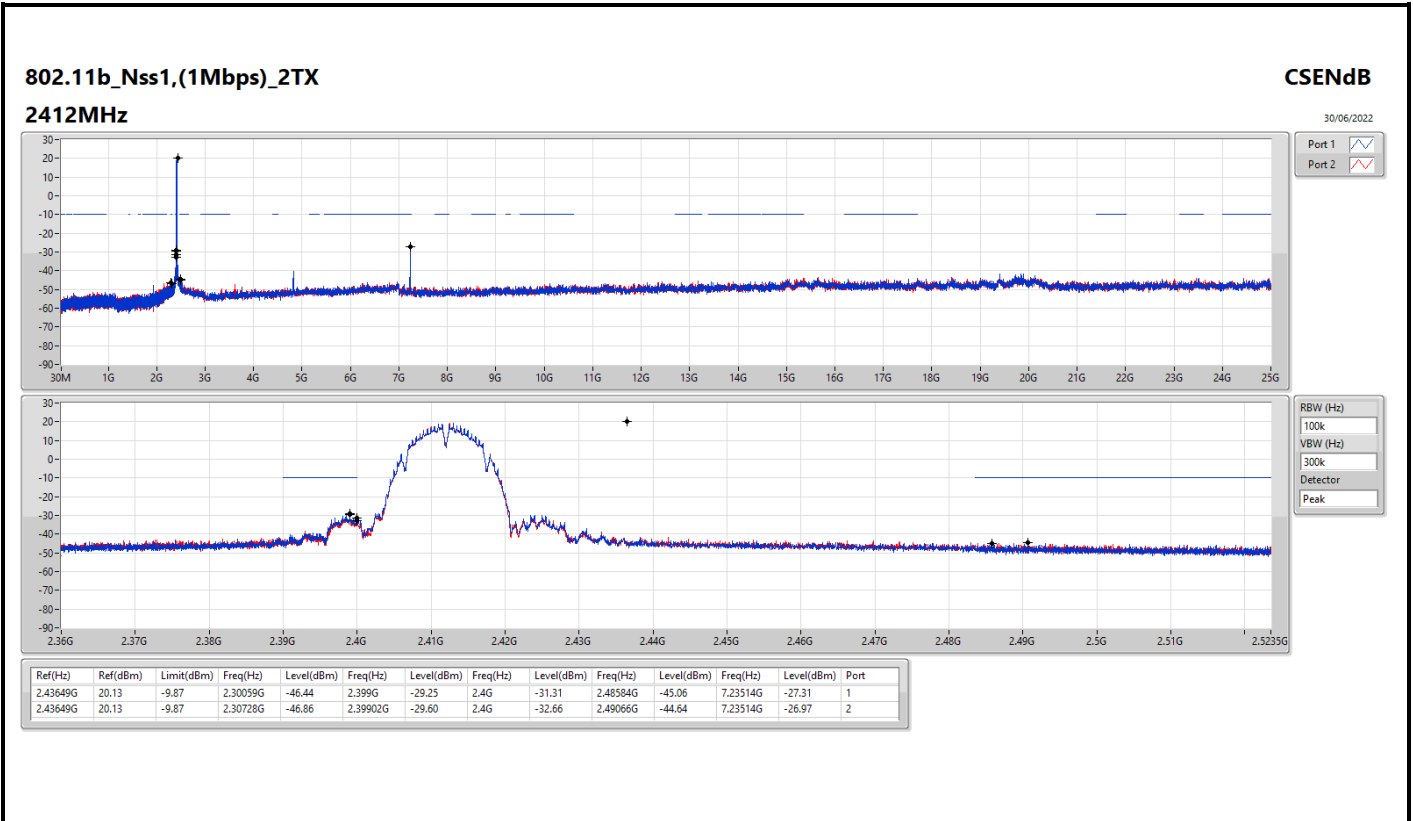
For non beamforming  
Summary

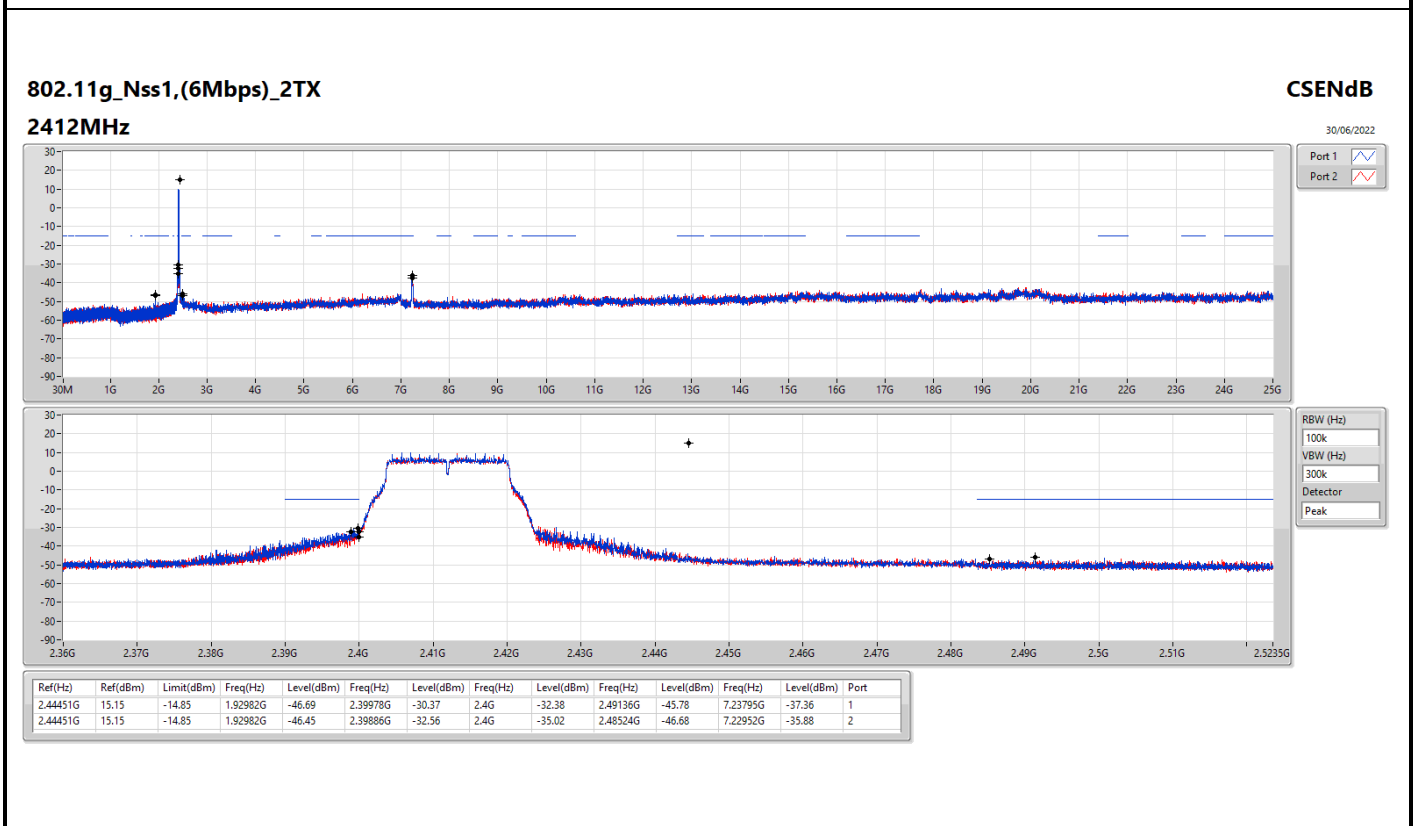
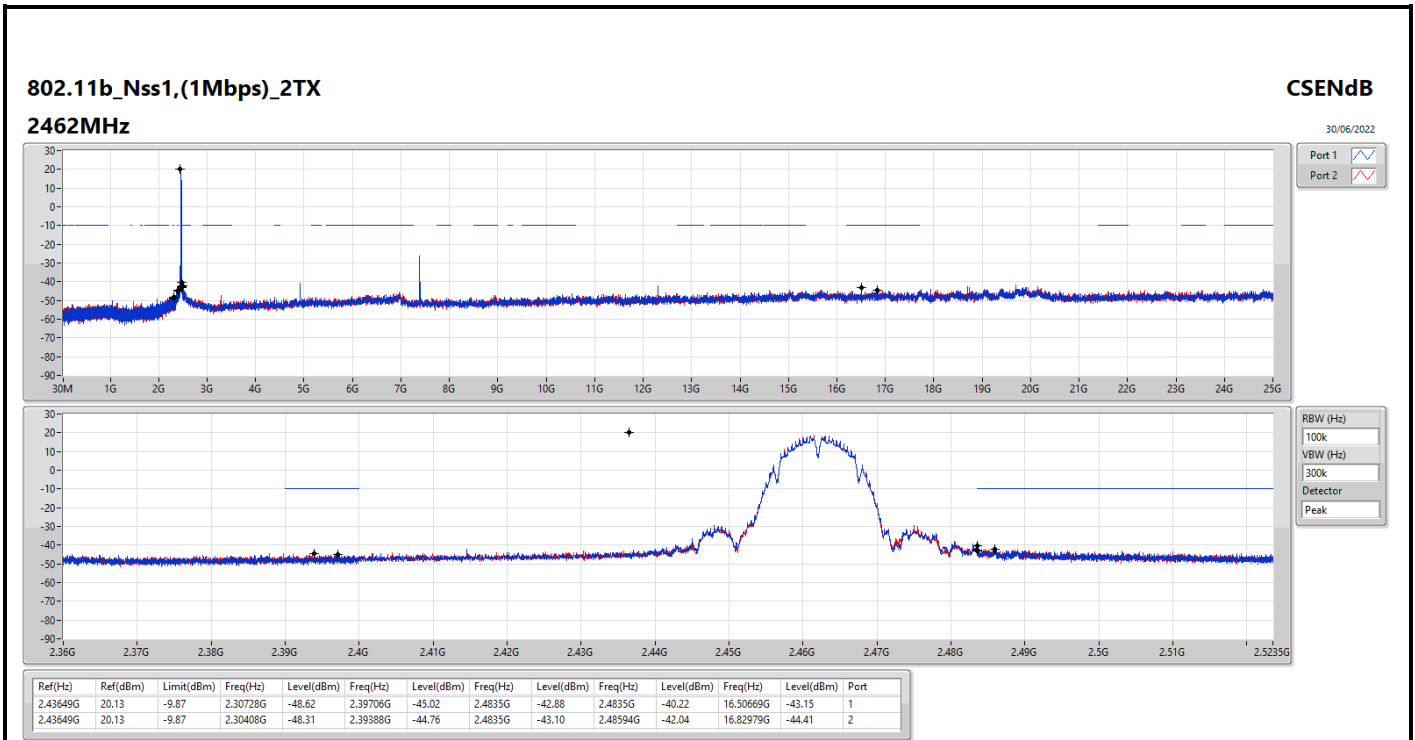
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43649G	20.13	-9.87	2.30059G	-46.44	2.399G	-29.25	2.4G	-31.31	2.48584G	-45.06	7.23514G	-27.31	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44451G	15.15	-14.85	1.92982G	-46.69	2.39978G	-30.37	2.4G	-32.38	2.49136G	-45.78	7.23795G	-37.36	1
802.11ax HEW20_Nss2,(MCS0)_2TX	Pass	2.442G	15.55	-14.45	1.92982G	-47.08	2.39854G	-29.66	2.4G	-33.84	2.48476G	-47.40	7.23514G	-36.04	1
802.11ax HEW40_Nss2,(MCS0)_2TX	Pass	2.43449G	7.99	-22.01	1.6247G	-42.41	2.39956G	-31.28	2.4G	-35.86	2.48538G	-37.94	24.68869G	-44.11	2



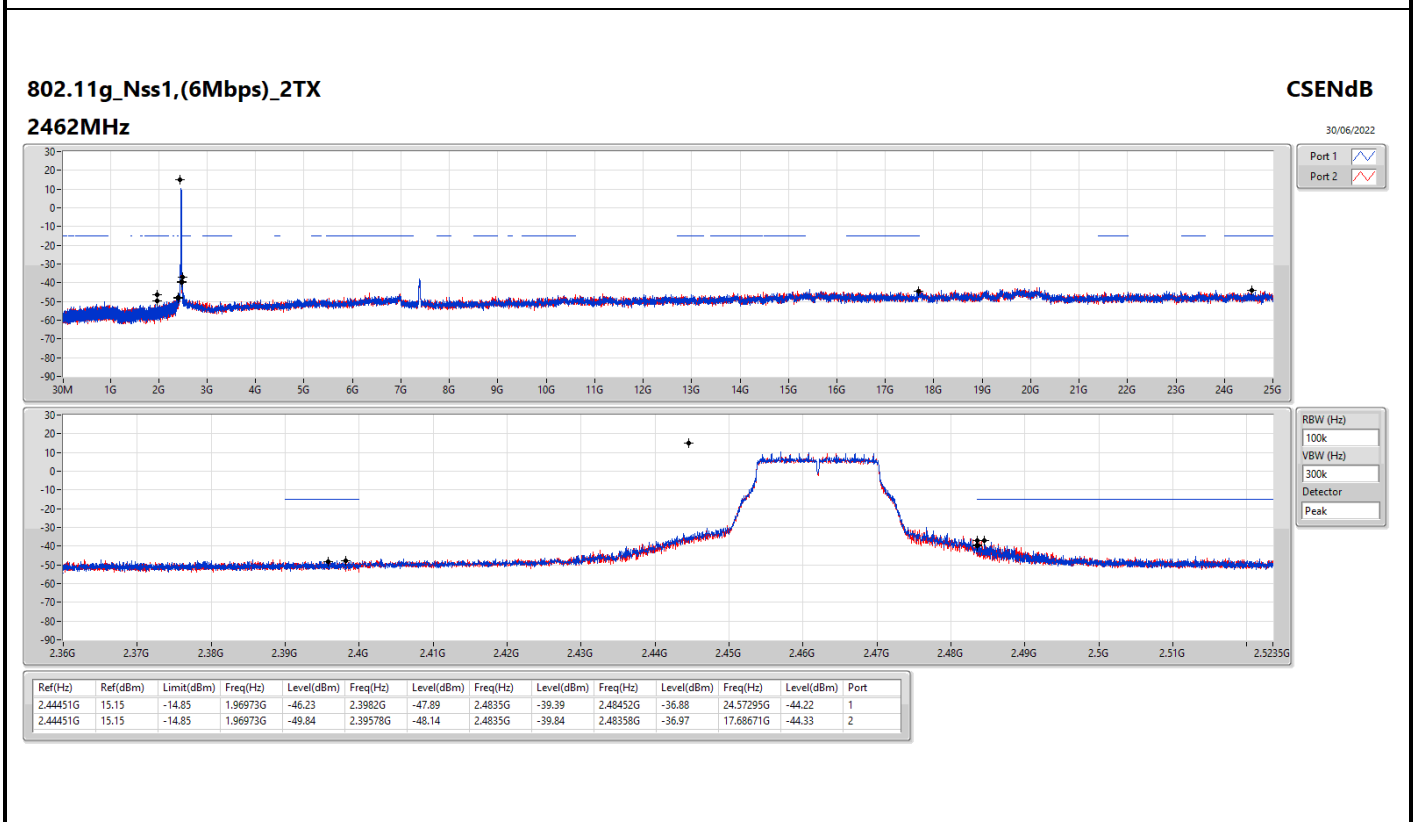
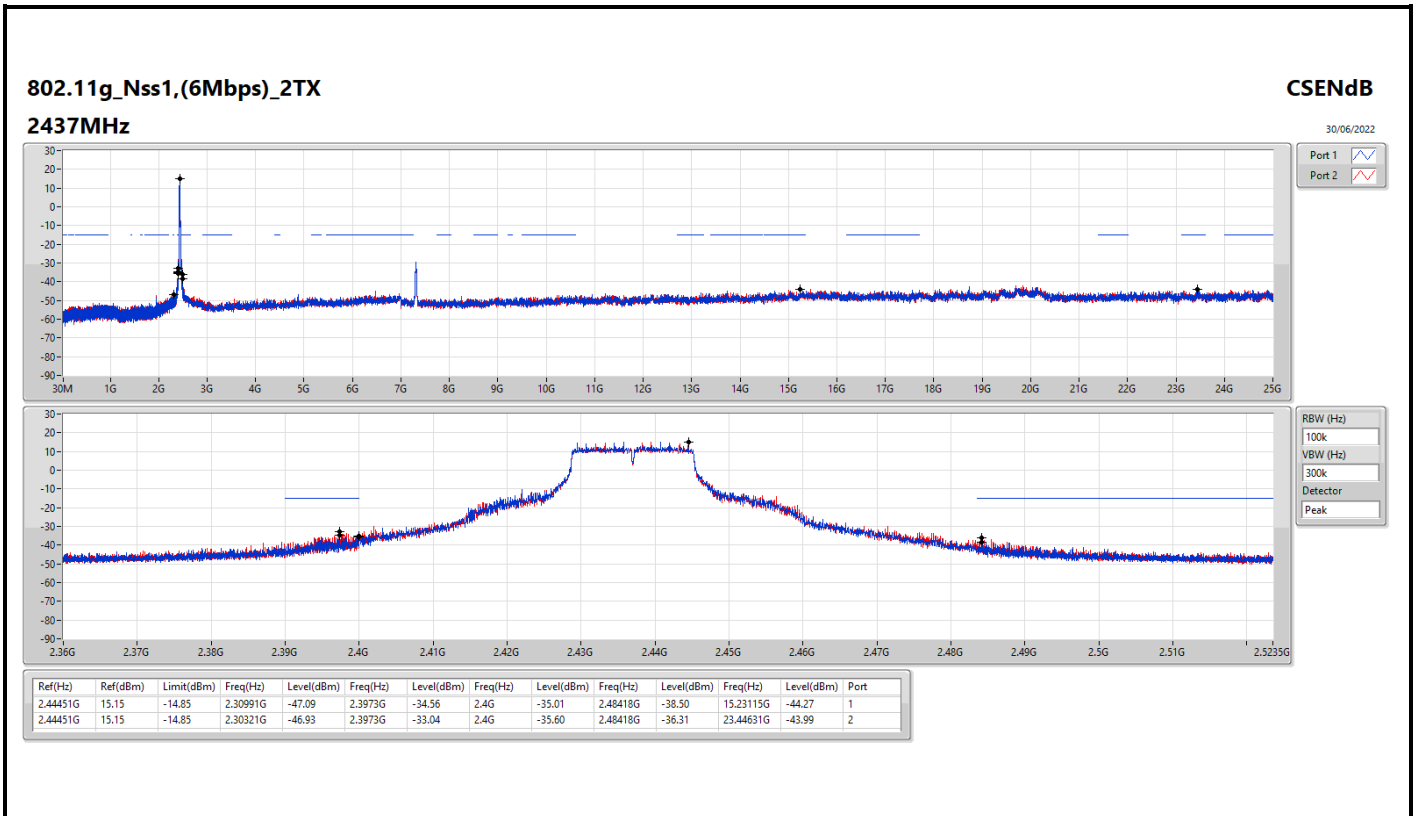
Result

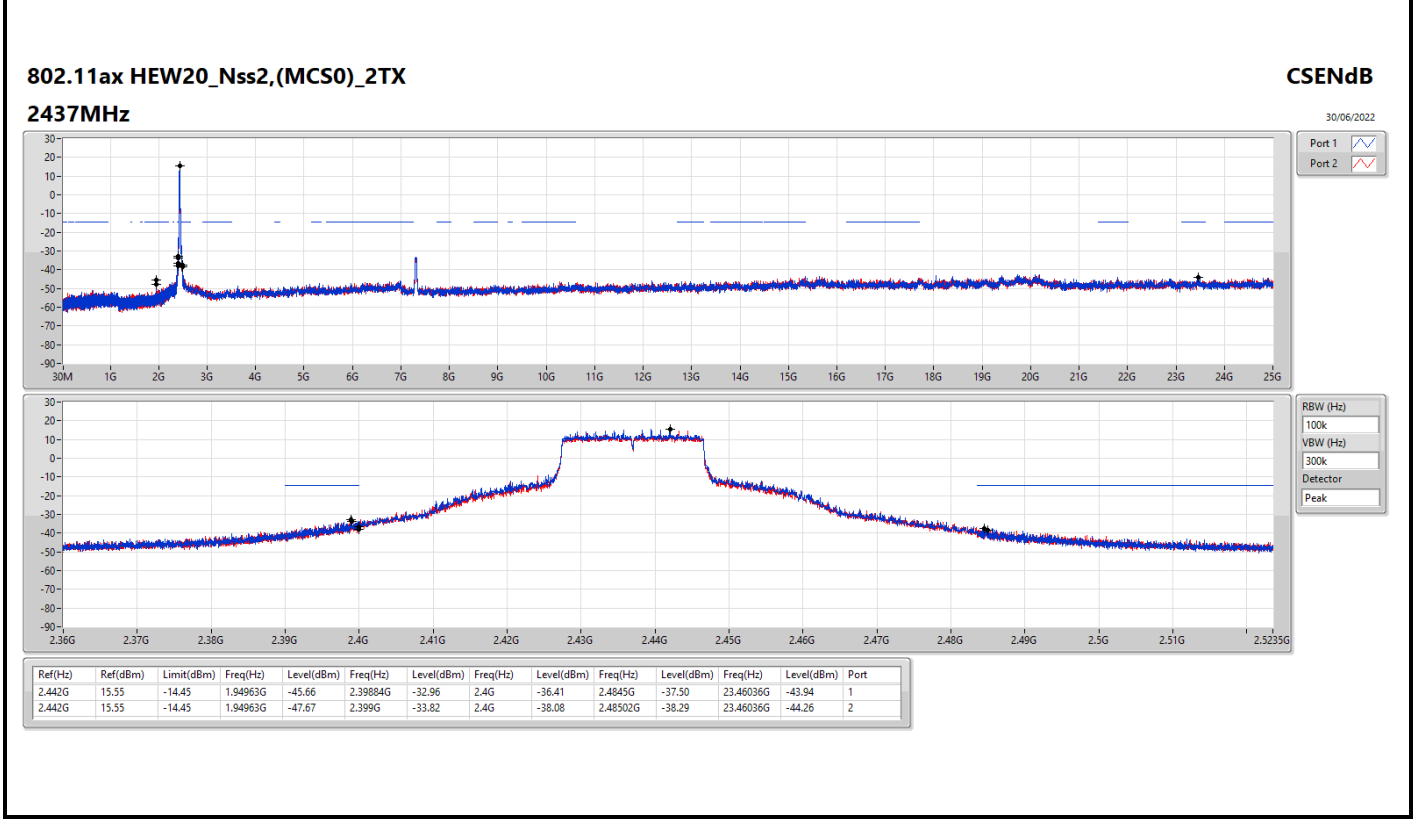
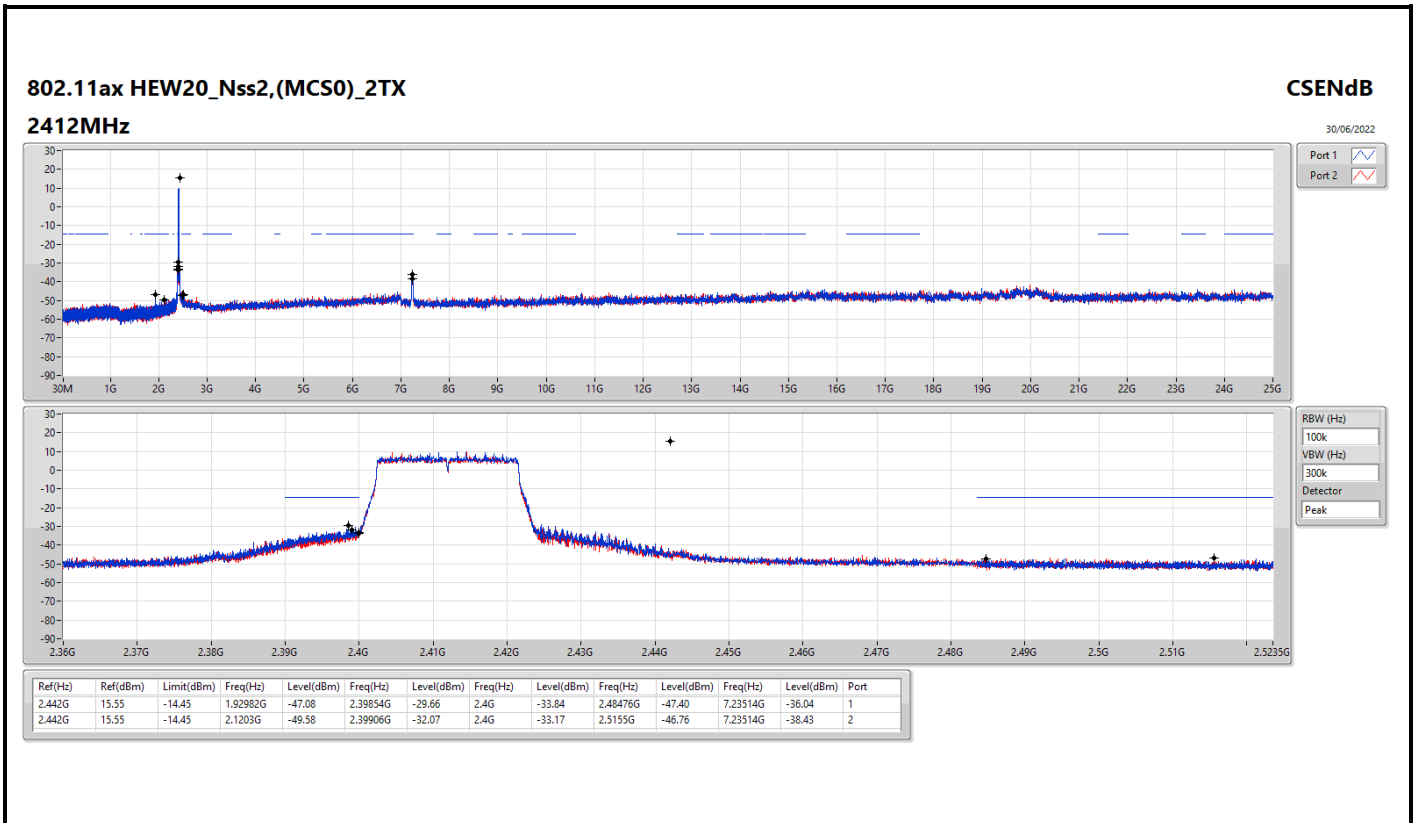
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43649G	20.13	-9.87	2.30059G	-46.44	2.399G	-29.25	2.4G	-31.31	2.48584G	-45.06	7.23514G	-27.31	1
2412MHz	Pass	2.43649G	20.13	-9.87	2.30728G	-46.86	2.39902G	-29.60	2.4G	-32.66	2.49066G	-44.64	7.23514G	-26.97	2
2437MHz	Pass	2.43649G	20.13	-9.87	1.94963G	-47.51	2.39686G	-43.36	2.4G	-46.47	2.48966G	-44.01	24.52799G	-43.98	1
2437MHz	Pass	2.43649G	20.13	-9.87	2.30059G	-48.86	2.39136G	-42.51	2.4835G	-45.12	2.5042G	-42.96	14.64114G	-43.93	2
2462MHz	Pass	2.43649G	20.13	-9.87	2.30728G	-48.62	2.39706G	-45.02	2.4835G	-42.88	2.4835G	-40.22	16.50669G	-43.15	1
2462MHz	Pass	2.43649G	20.13	-9.87	2.30408G	-48.31	2.39388G	-44.76	2.4835G	-43.10	2.48594G	-42.04	16.82979G	-44.41	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44451G	15.15	-14.85	1.92982G	-46.69	2.39978G	-30.37	2.4G	-32.38	2.49136G	-45.78	7.23795G	-37.36	1
2412MHz	Pass	2.44451G	15.15	-14.85	1.92982G	-46.45	2.39886G	-32.56	2.4G	-35.02	2.48524G	-46.68	7.22952G	-35.88	2
2437MHz	Pass	2.44451G	15.15	-14.85	2.30991G	-47.09	2.3973G	-34.56	2.4G	-35.01	2.48418G	-38.50	15.23115G	-44.27	1
2437MHz	Pass	2.44451G	15.15	-14.85	2.30321G	-46.93	2.3973G	-33.04	2.4G	-35.60	2.48418G	-36.31	23.44631G	-43.99	2
2462MHz	Pass	2.44451G	15.15	-14.85	1.96973G	-46.23	2.3982G	-47.89	2.4835G	-39.39	2.48452G	-36.88	24.57295G	-44.22	1
2462MHz	Pass	2.44451G	15.15	-14.85	1.96973G	-49.84	2.39578G	-48.14	2.4835G	-39.84	2.48358G	-36.97	17.68671G	-44.33	2
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	15.55	-14.45	1.92982G	-47.08	2.39854G	-29.66	2.4G	-33.84	2.48476G	-47.40	7.23514G	-36.04	1
2412MHz	Pass	2.442G	15.55	-14.45	2.1203G	-49.58	2.39906G	-32.07	2.4G	-33.17	2.5155G	-46.76	7.23514G	-38.43	2
2437MHz	Pass	2.442G	15.55	-14.45	1.94963G	-45.66	2.39884G	-32.96	2.4G	-36.41	2.4845G	-37.50	23.46036G	-43.94	1
2437MHz	Pass	2.442G	15.55	-14.45	1.94963G	-47.67	2.399G	-33.82	2.4G	-38.08	2.48502G	-38.29	23.46036G	-44.26	2
2462MHz	Pass	2.442G	15.55	-14.45	1.96973G	-48.45	2.39646G	-47.14	2.4835G	-39.37	2.48364G	-33.74	15.21429G	-43.52	1
2462MHz	Pass	2.442G	15.55	-14.45	1.96973G	-48.77	2.39322G	-47.25	2.4835G	-39.98	2.48366G	-33.50	16.25664G	-44.02	2
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43449G	7.99	-22.01	2.30082G	-50.65	2.397G	-34.90	2.4G	-37.51	2.49834G	-47.45	24.8177G	-43.76	1
2422MHz	Pass	2.43449G	7.99	-22.01	2.15169G	-49.84	2.39924G	-37.38	2.4G	-41.16	2.5595G	-47.39	15.31304G	-44.09	2
2437MHz	Pass	2.43449G	7.99	-22.01	1.6247G	-39.11	2.39616G	-33.53	2.4G	-34.59	2.48722G	-38.09	24.89623G	-44.73	1
2437MHz	Pass	2.43449G	7.99	-22.01	1.6247G	-42.41	2.39956G	-31.28	2.4G	-35.86	2.48538G	-37.94	24.68869G	-44.11	2
2452MHz	Pass	2.43449G	7.99	-22.01	1.63472G	-39.22	2.39804G	-44.91	2.4835G	-42.63	2.48386G	-35.72	15.25134G	-43.83	1
2452MHz	Pass	2.43449G	7.99	-22.01	1.63472G	-44.30	2.39796G	-44.96	2.4835G	-42.58	2.48374G	-35.00	15.27658G	-43.34	2

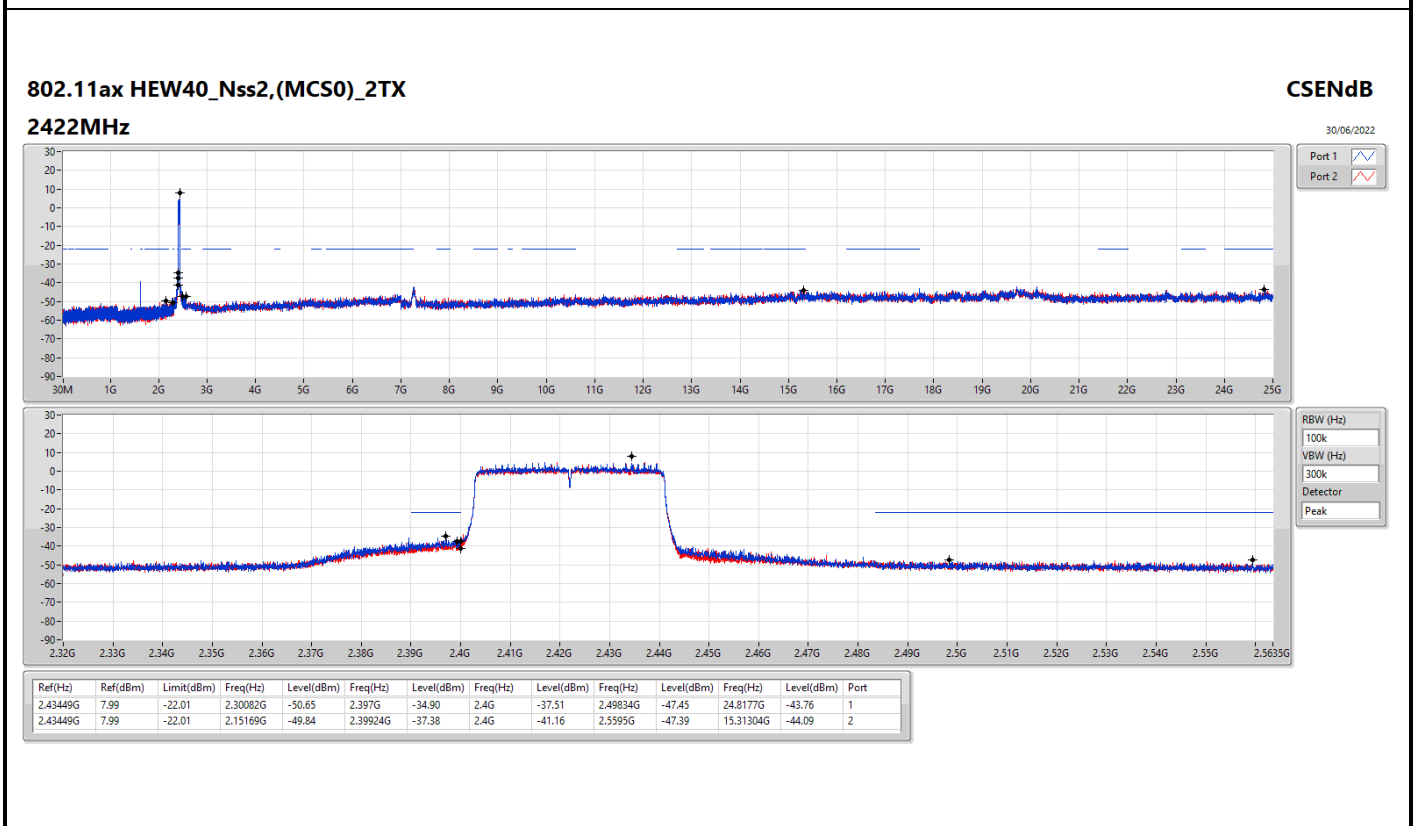
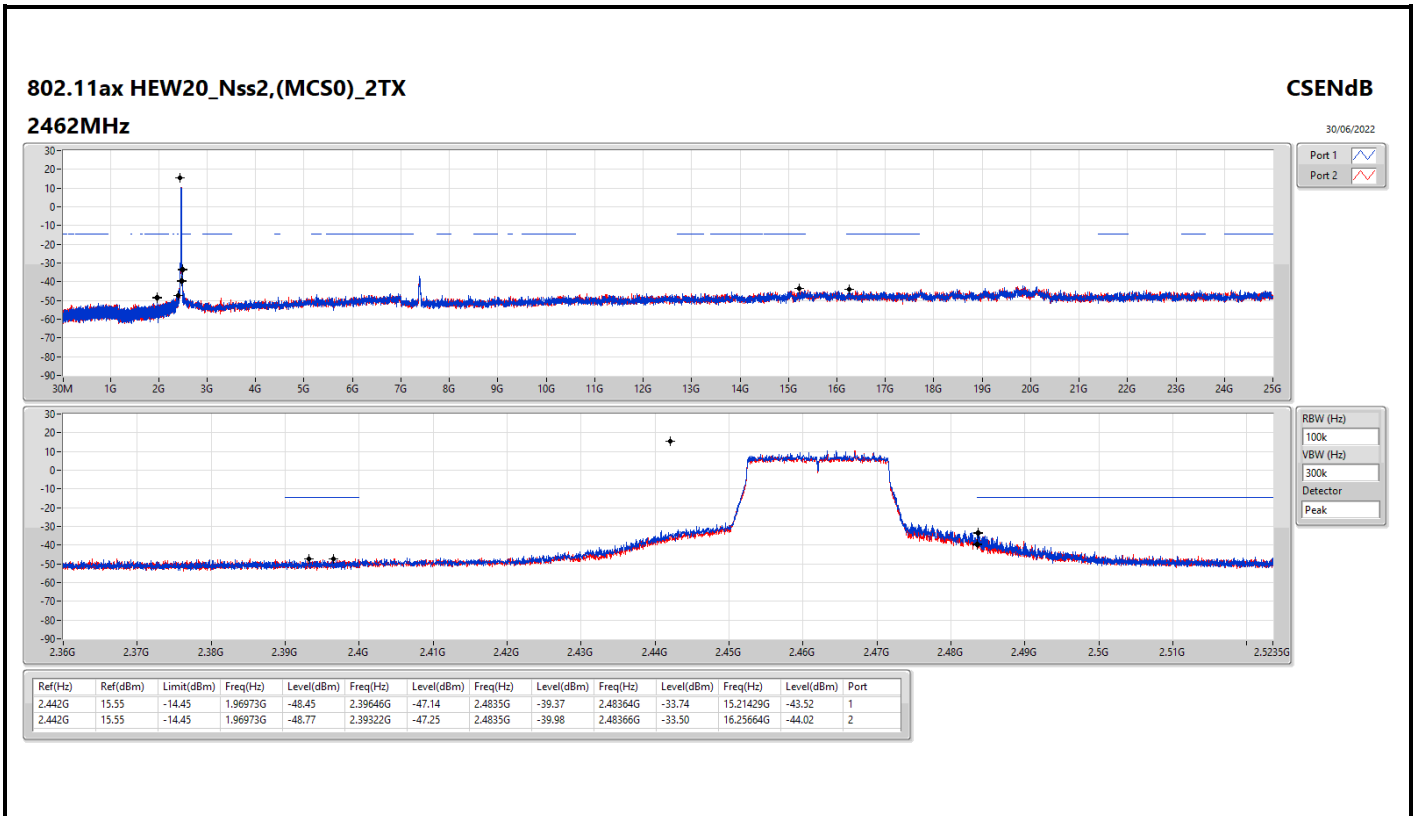


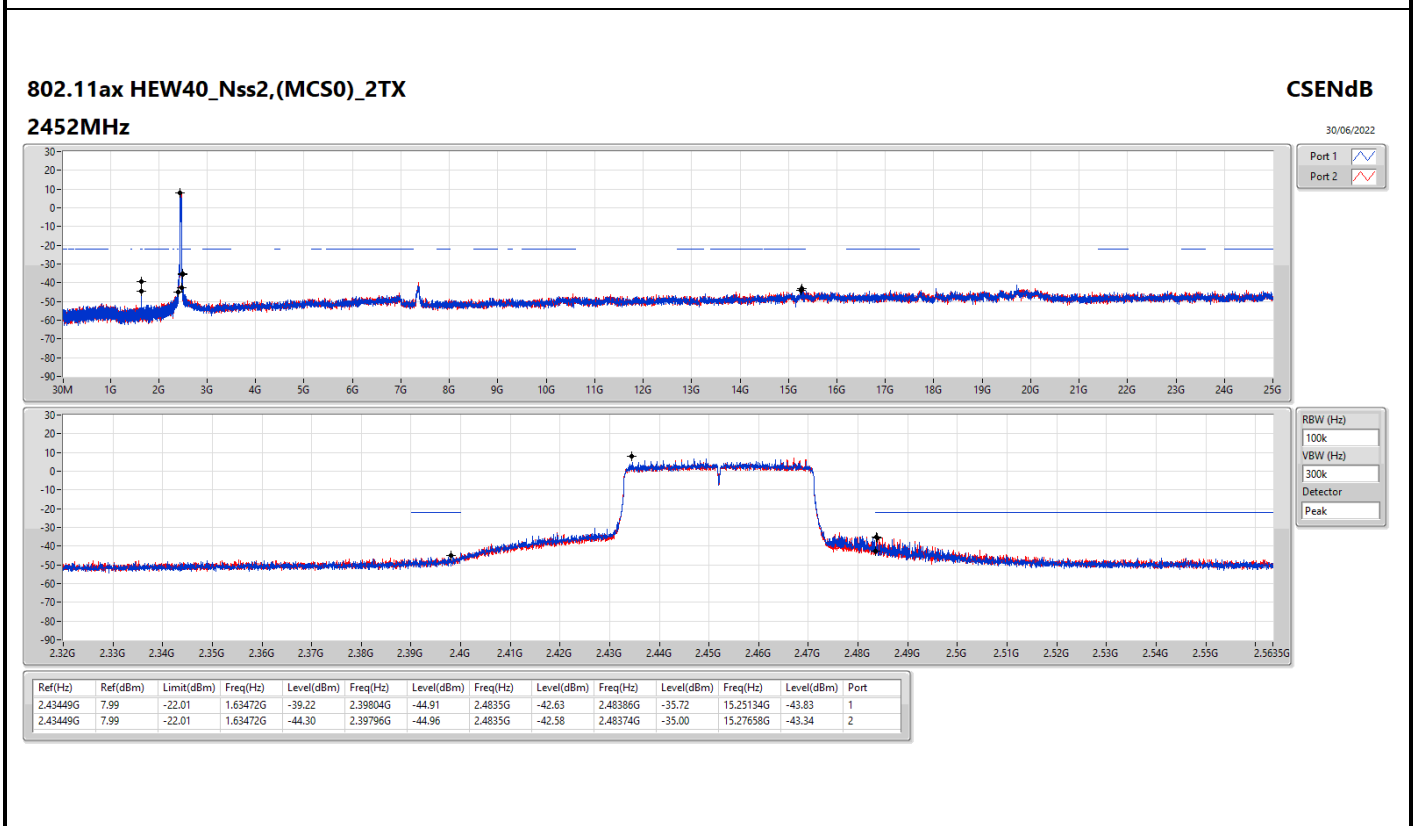
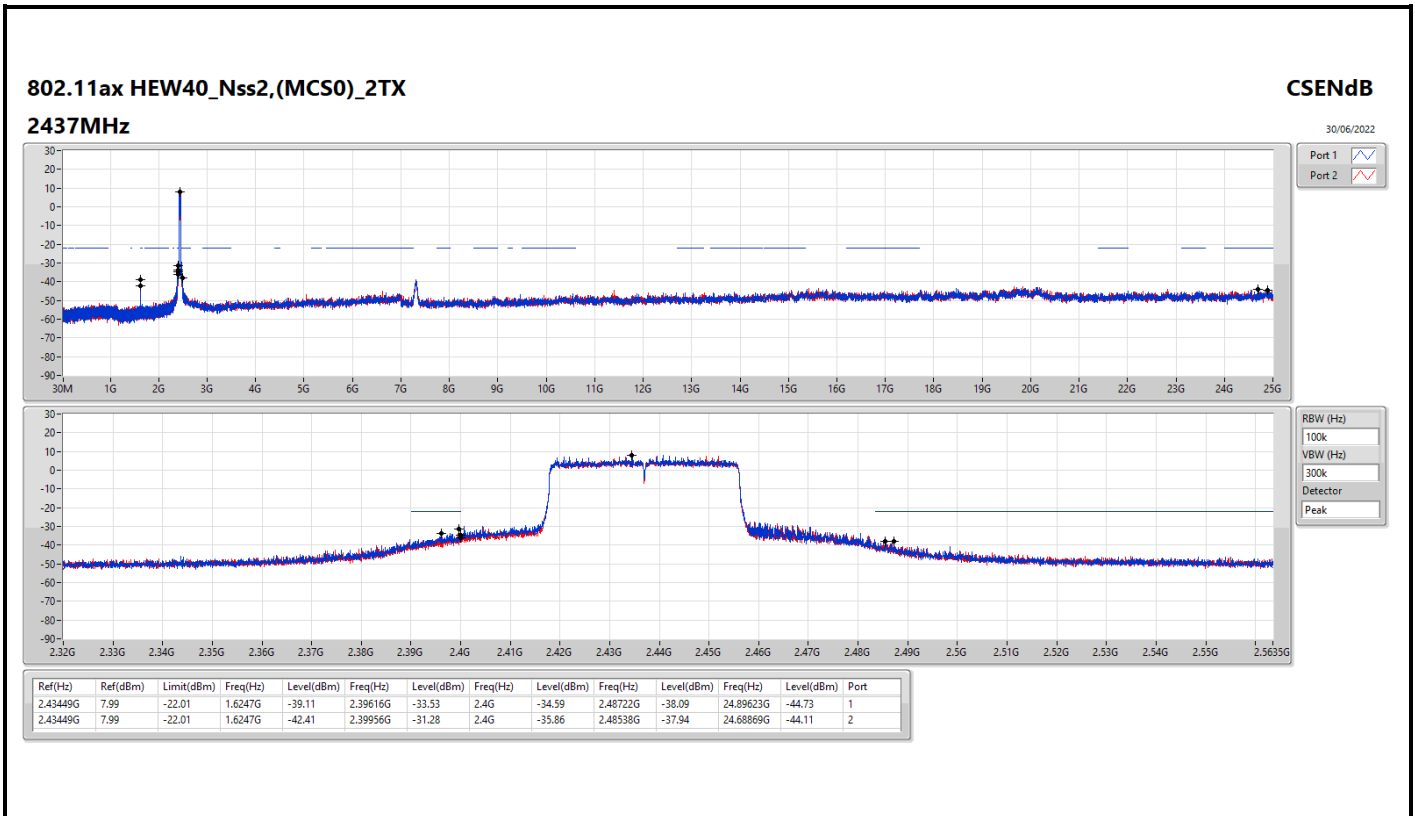












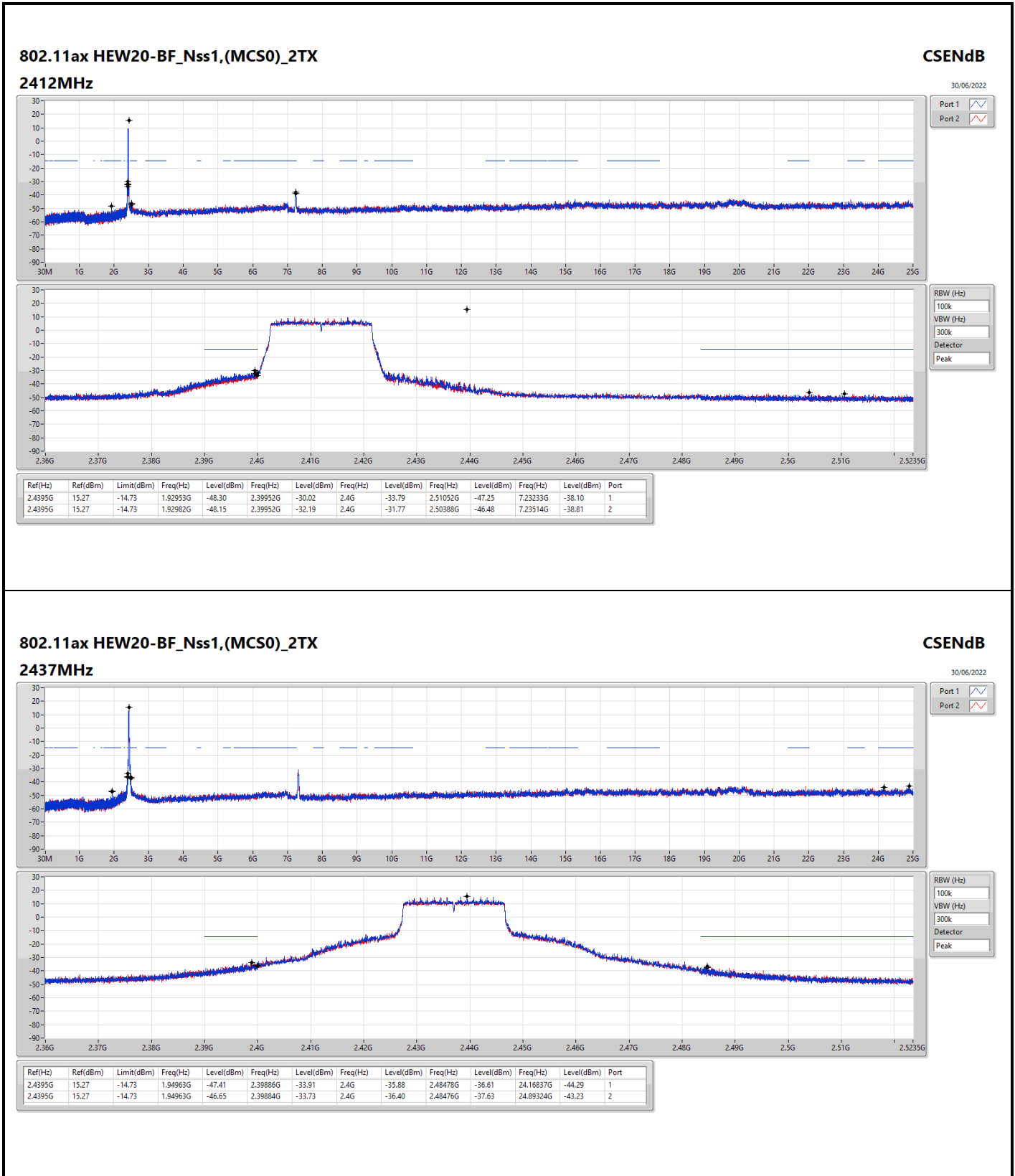


For beamforming  
Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.4395G	15.27	-14.73	1.92953G	-48.30	2.39952G	-30.02	2.4G	-33.79	2.51052G	-47.25	7.23233G	-38.10	1
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.45198G	8.51	-21.49	1.6247G	-39.04	2.39948G	-30.76	2.4G	-34.64	2.48882G	-36.25	16.92286G	-44.22	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4395G	15.27	-14.73	1.92953G	-48.30	2.39952G	-30.02	2.4G	-33.79	2.51052G	-47.25	7.23233G	-38.10	1
2412MHz	Pass	2.4395G	15.27	-14.73	1.92982G	-48.15	2.39952G	-32.19	2.4G	-31.77	2.50388G	-46.48	7.23514G	-38.81	2
2437MHz	Pass	2.4395G	15.27	-14.73	1.94963G	-47.41	2.39886G	-33.91	2.4G	-35.88	2.48478G	-36.61	24.16837G	-44.29	1
2437MHz	Pass	2.4395G	15.27	-14.73	1.94963G	-46.65	2.39884G	-33.73	2.4G	-36.40	2.48476G	-37.63	24.89324G	-43.23	2
2462MHz	Pass	2.4395G	15.27	-14.73	1.96973G	-46.67	2.39592G	-46.39	2.4835G	-38.65	2.48368G	-36.02	23.1485G	-43.70	1
2462MHz	Pass	2.4395G	15.27	-14.73	1.96973G	-47.61	2.39506G	-48.43	2.4835G	-39.26	2.48364G	-37.20	15.05134G	-44.40	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.45198G	8.51	-21.49	2.18088G	-50.43	2.39952G	-35.08	2.4G	-36.87	2.48526G	-46.98	24.52883G	-44.27	1
2422MHz	Pass	2.45198G	8.51	-21.49	2.19491G	-50.26	2.39848G	-35.91	2.4G	-37.96	2.48546G	-47.10	7.24992G	-42.30	2
2437MHz	Pass	2.45198G	8.51	-21.49	1.6247G	-39.04	2.39948G	-30.76	2.4G	-34.64	2.48882G	-36.25	16.92286G	-44.22	1
2437MHz	Pass	2.45198G	8.51	-21.49	1.6247G	-43.60	2.39616G	-32.17	2.4G	-34.50	2.48586G	-36.46	24.53725G	-43.33	2
2452MHz	Pass	2.45198G	8.51	-21.49	1.63472G	-39.65	2.39988G	-43.99	2.4835G	-42.16	2.48482G	-35.06	17.48938G	-44.55	1
2452MHz	Pass	2.45198G	8.51	-21.49	1.63472G	-44.56	2.39832G	-44.53	2.4835G	-38.23	2.48402G	-36.83	24.80929G	-44.22	2

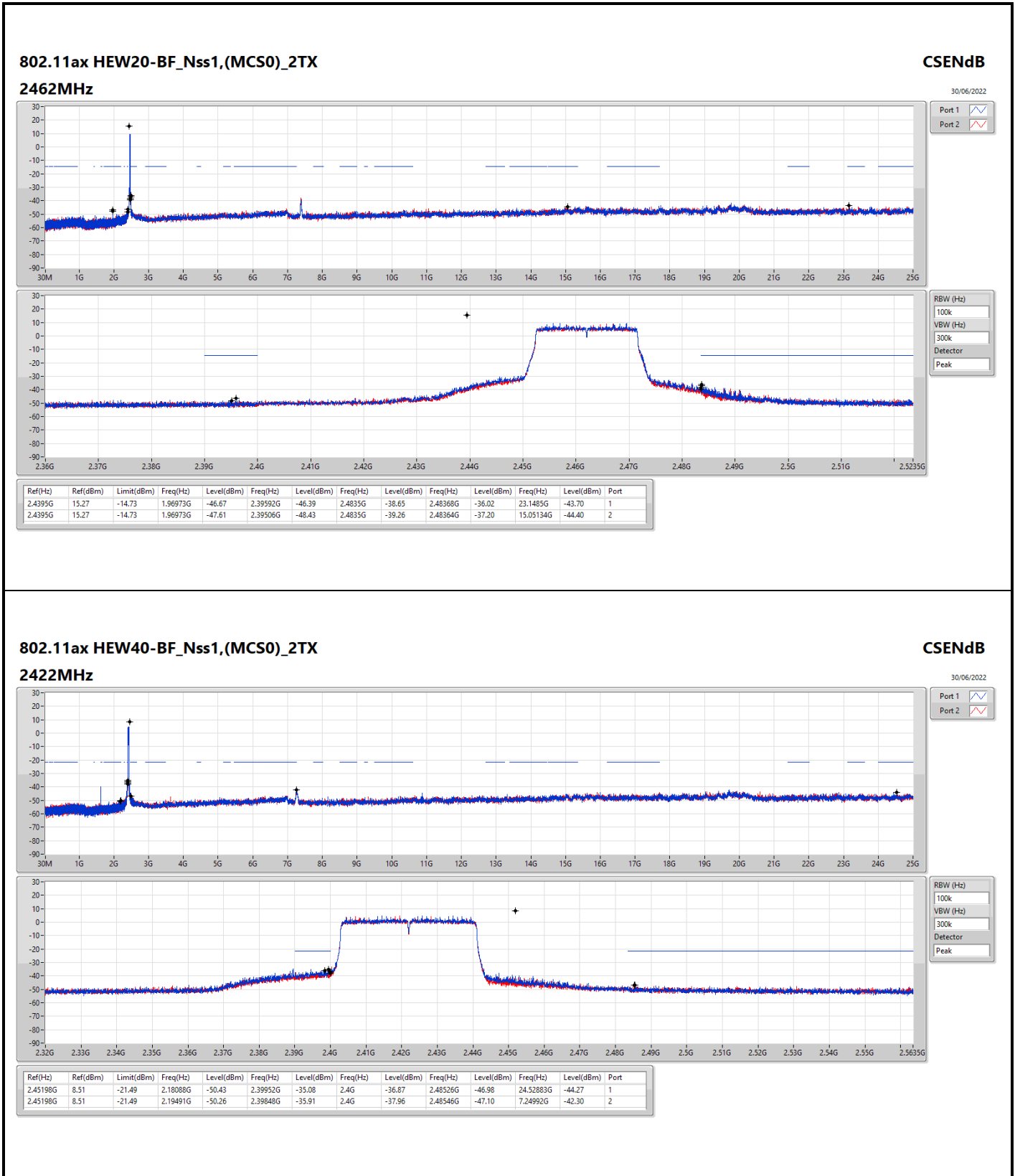


**802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX**

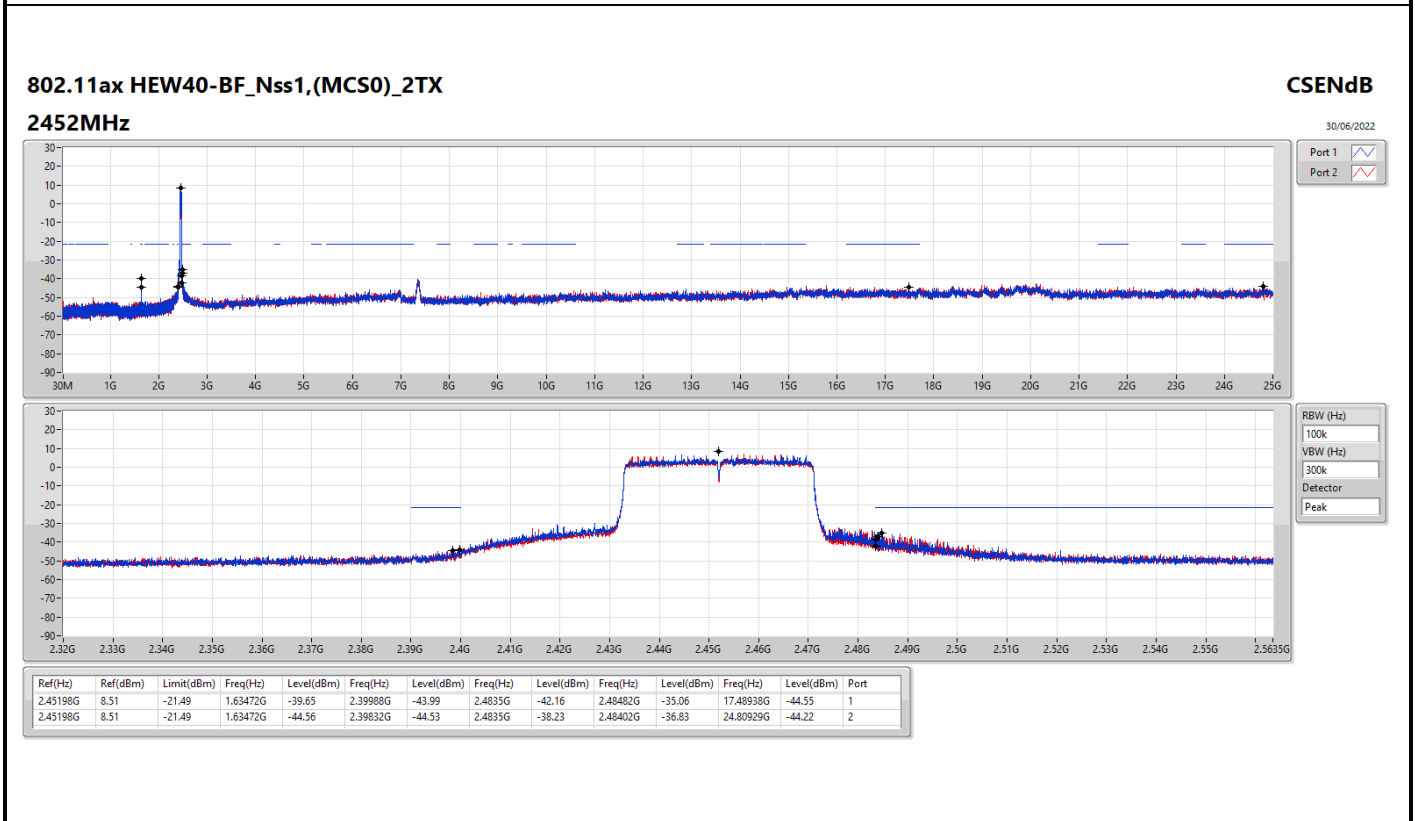
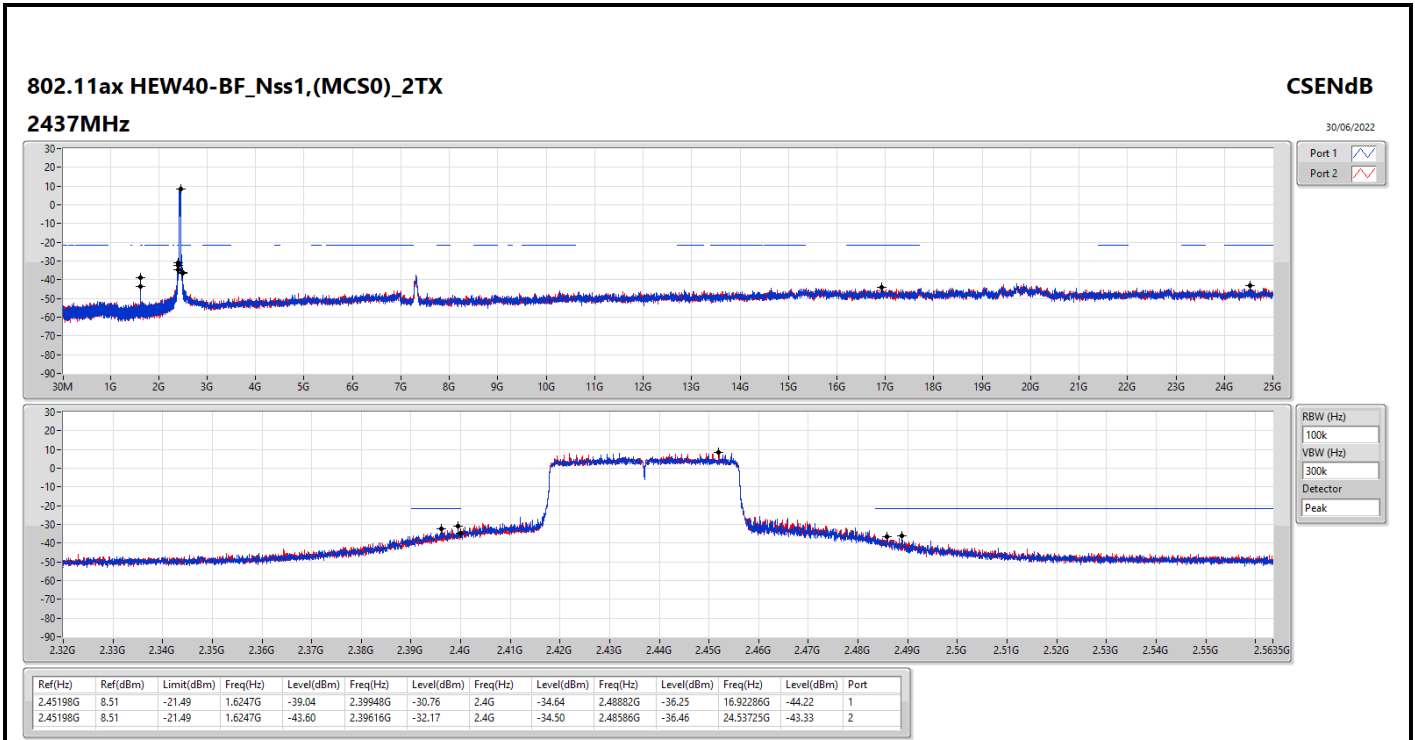
**2437MHz**

**CSENdB**

30/06/2022





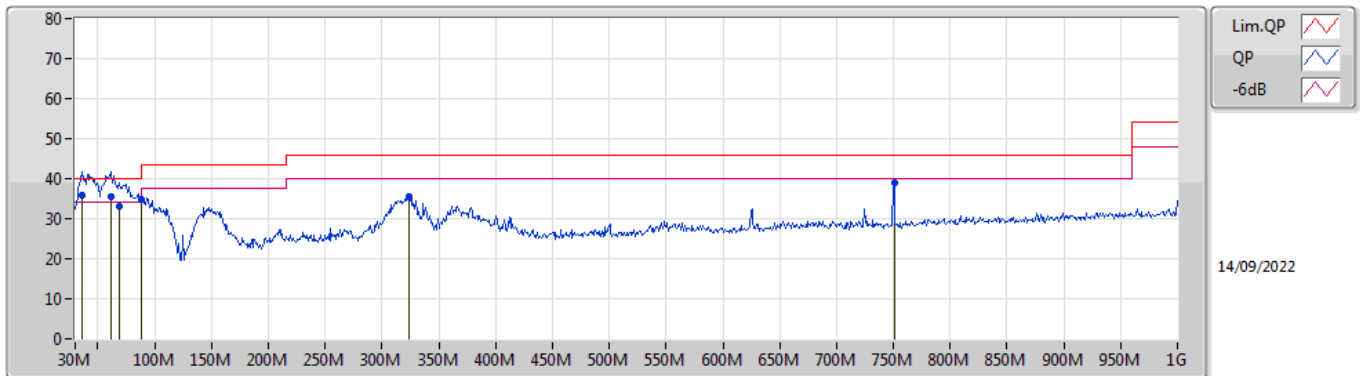




**Summary**

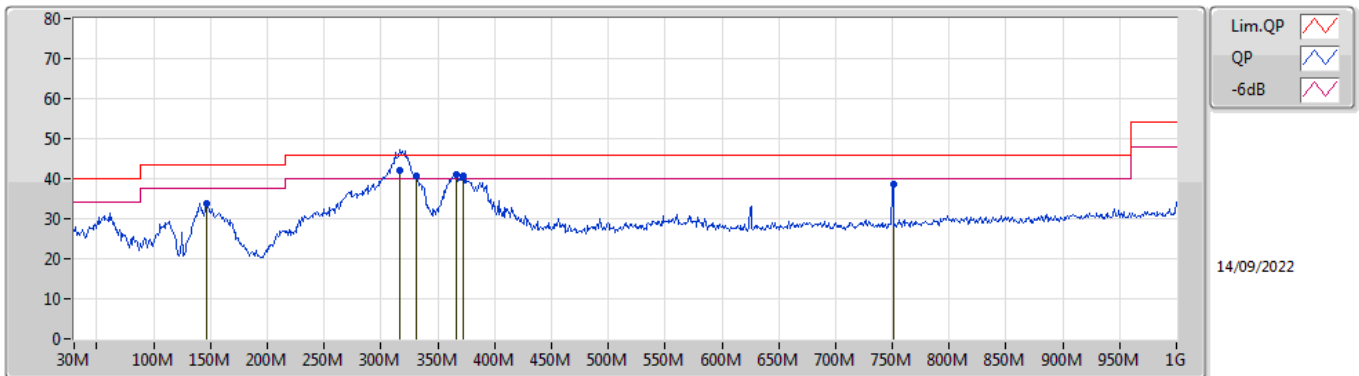
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	316.15M	41.95	46.00	-4.05	Horizontal

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	35.82M	35.76	40.00	-4.24	-9.88	3	Vertical	36	1.00	"Worst"	45.64	20.92	0.90	31.70
QP	62.01M	35.66	40.00	-4.34	-18.51	3	Vertical	0	1.50	-	54.17	12.21	1.20	31.92
QP	68.8M	32.96	40.00	-7.04	-18.48	3	Vertical	9	2.00	-	51.44	12.20	1.28	31.96
PK	88M	34.67	43.50	-8.83	-16.34	3	Vertical	1	1.50	-	51.01	14.15	1.46	31.95
PK	323.91M	35.38	46.00	-10.62	-9.71	3	Vertical	40	1.50	-	45.09	19.59	2.84	32.14
PK	750.71M	39.05	46.00	-6.95	-2.64	3	Vertical	113	1.00	-	41.69	25.27	4.70	32.61

Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	146.4M	33.89	43.50	-9.61	-13.71	3	Horizontal	246	2.00	-	47.60	16.44	1.86	32.01
QP	316.15M	41.95	46.00	-4.05	-9.85	3	Horizontal	197	1.00	"Worst"	51.80	19.48	2.80	32.13
PK	331.67M	40.66	46.00	-5.34	-9.53	3	Horizontal	162	1.00	-	50.19	19.73	2.89	32.15
PK	366.59M	41.08	46.00	-4.92	-8.38	3	Horizontal	356	1.00	-	49.46	20.72	3.07	32.17
PK	372.41M	40.52	46.00	-5.48	-8.30	3	Horizontal	328	1.00	-	48.82	20.78	3.09	32.17
PK	750.71M	38.52	46.00	-7.48	-2.64	3	Horizontal	217	1.25	-	41.16	25.27	4.70	32.61

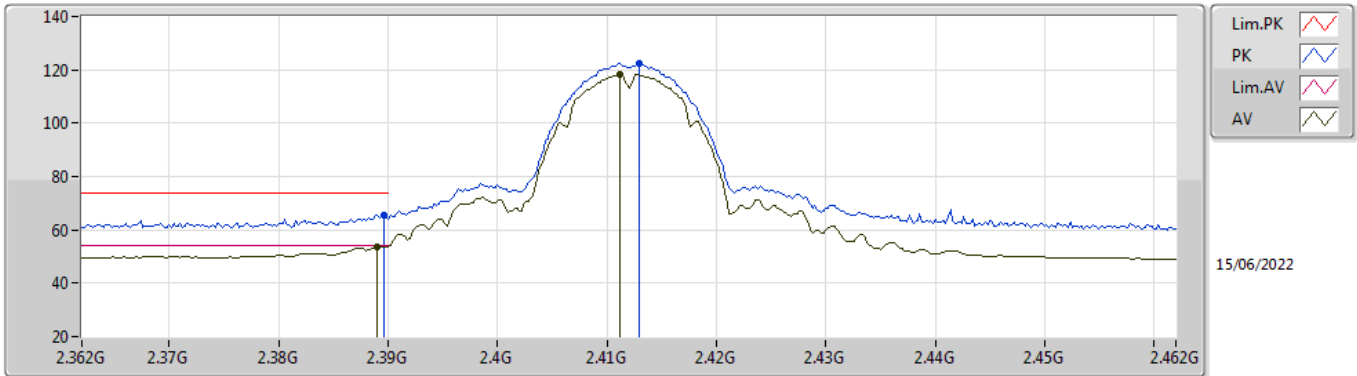


For non beamforming  
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss2,(MCS0)_2TX	Pass	AV	2.3898G	53.90	54.00	-0.10	3	Vertical	56	2.32	-

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

### 2412MHz\_TX

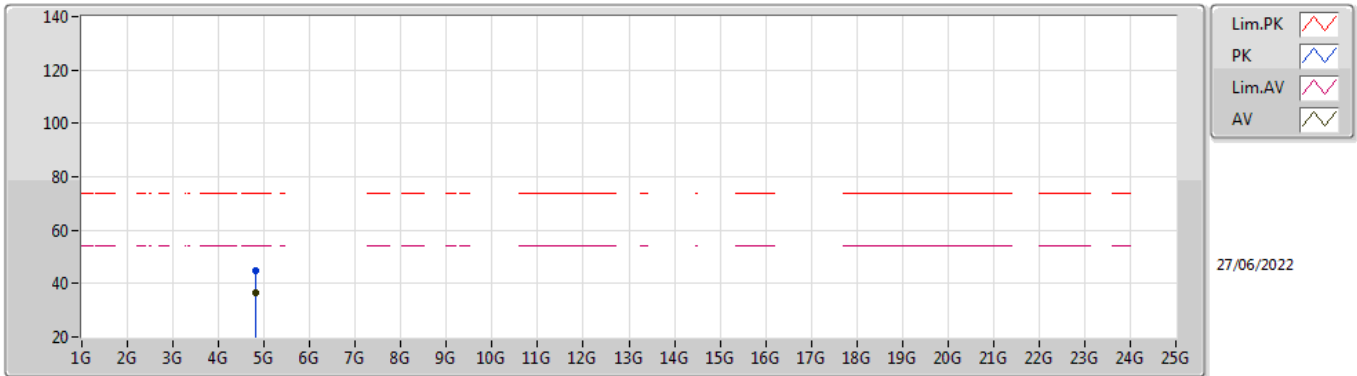


EUT\_Z\_2TX  
Setting 108  
06-F-S-5

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	2.3896G	65.49	74.00	-8.51	34.12	3	Vertical	176	1.76	-	27.48	3.89	-
AV	2.389G	53.81	54.00	-0.19	22.43	3	Vertical	176	1.76	-	27.49	3.89	-
PK	2.413G	122.39	Inf	-Inf	91.14	3	Vertical	176	1.76	-	27.35	3.90	-
AV	2.4112G	118.40	Inf	-Inf	87.14	3	Vertical	176	1.76	-	27.36	3.90	-

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

### 2412MHz\_TX

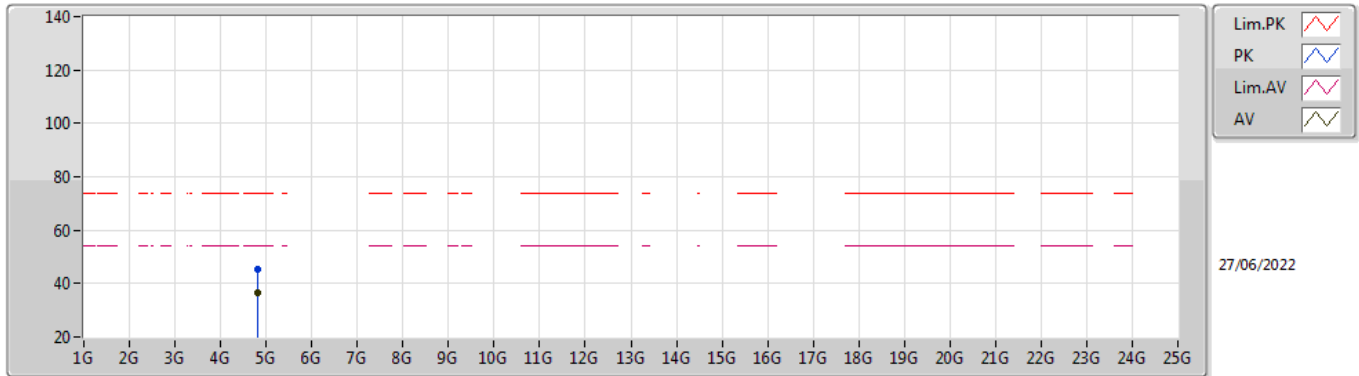


EUT\_Z\_2TX  
Setting 108  
02-B-C-6

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	4.8237G	44.83	74.00	-29.17	39.41	3	Vertical	205	1.78	-	32.94	4.70	32.22
AV	4.824G	36.32	54.00	-17.68	30.90	3	Vertical	205	1.78	-	32.94	4.70	32.22

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

### 2412MHz\_TX



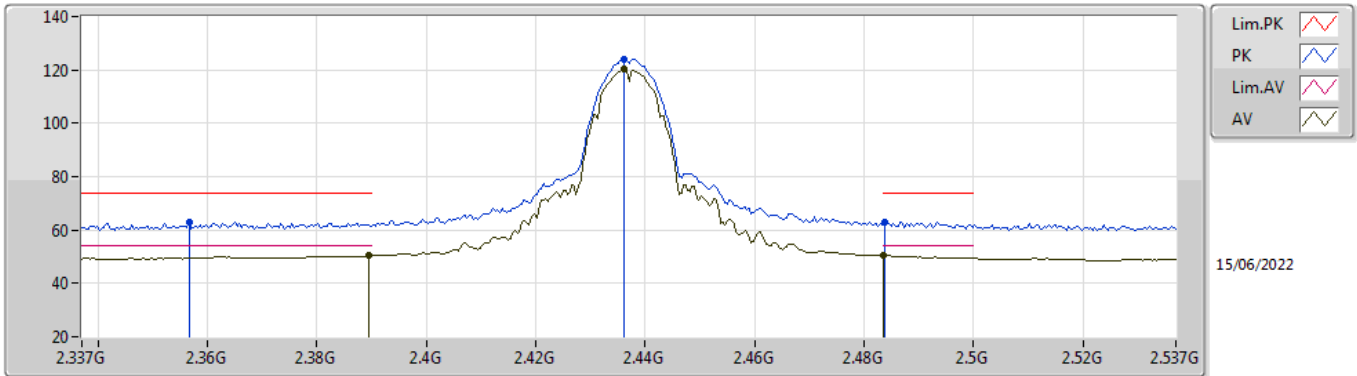
EUT Z\_2TX  
Setting 108  
02-B-C-6

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	4.82394G	45.22	74.00	-28.78	39.80	3	Horizontal	62	1.17	-	32.94	4.70	32.22
AV	4.82394G	36.31	54.00	-17.69	30.89	3	Horizontal	62	1.17	-	32.94	4.70	32.22



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

### 2437MHz\_TX

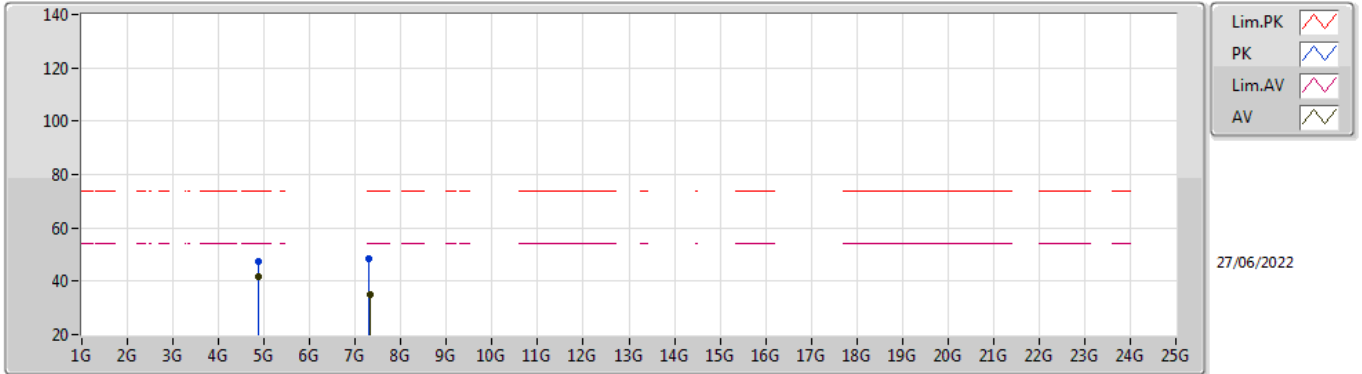


EUT\_Z\_2TX  
Setting 110  
06-F-S-5

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	2.3566G	62.86	74.00	-11.14	31.26	3	Vertical	51	2.62	-	27.75	3.85	-
AV	2.3894G	50.26	54.00	-3.74	18.89	3	Vertical	51	2.62	-	27.48	3.89	-
PK	2.4362G	124.06	Inf	-Inf	92.89	3	Vertical	51	2.62	-	27.26	3.91	-
AV	2.4362G	120.16	Inf	-Inf	88.99	3	Vertical	51	2.62	-	27.26	3.91	-
PK	2.4838G	62.85	74.00	-11.15	31.67	3	Vertical	51	2.62	-	27.27	3.91	-
AV	2.4835G	50.32	54.00	-3.68	19.14	3	Vertical	51	2.62	-	27.27	3.91	-

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

### 2437MHz\_TX

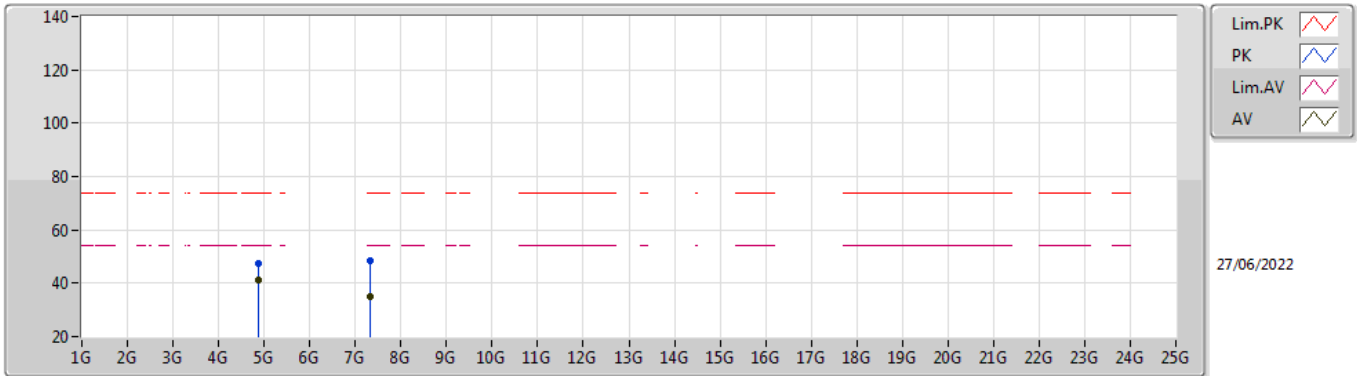


EUT\_Z\_2TX  
Setting 110  
02-B-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.874G	47.49	74.00	-26.51	41.85	3	Vertical	142	2.13	-	33.15	4.70	32.21
AV	4.874G	41.53	54.00	-12.47	35.89	3	Vertical	142	2.13	-	33.15	4.70	32.21
PK	7.30266G	48.22	74.00	-25.78	38.87	3	Vertical	91	2.66	-	36.41	5.75	32.81
AV	7.3245G	35.23	54.00	-18.77	25.86	3	Vertical	91	2.66	-	36.45	5.76	32.84

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

### 2437MHz\_TX

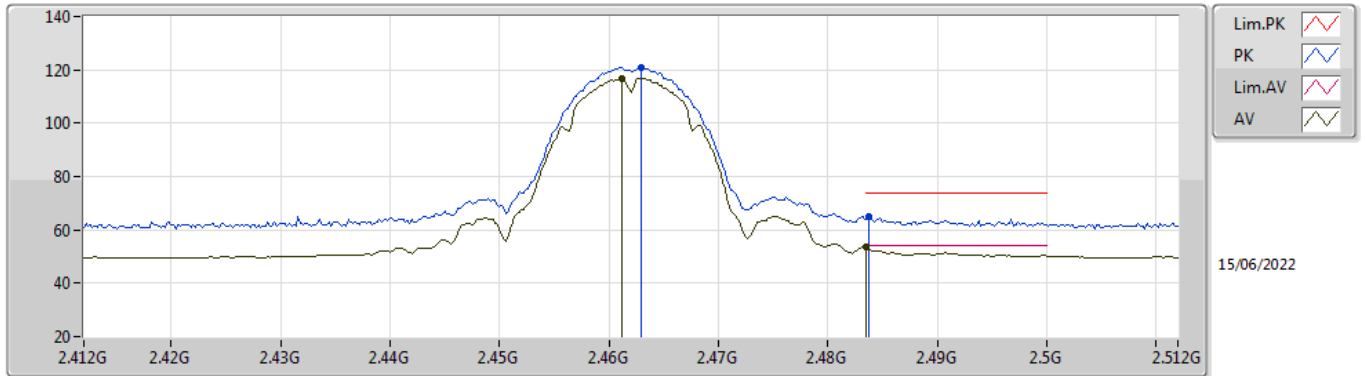


EUT\_Z\_2TX  
Setting 110  
02-B-C-6

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	4.87394G	47.23	74.00	-26.77	41.59	3	Horizontal	303	1.05	-	33.15	4.70	32.21
AV	4.874G	41.26	54.00	-12.74	35.62	3	Horizontal	303	1.05	-	33.15	4.70	32.21
PK	7.32492G	48.62	74.00	-25.38	39.26	3	Horizontal	159	2.88	-	36.45	5.76	32.85
AV	7.32546G	35.19	54.00	-18.81	25.83	3	Horizontal	159	2.88	-	36.45	5.76	32.85

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

### 2462MHz\_TX

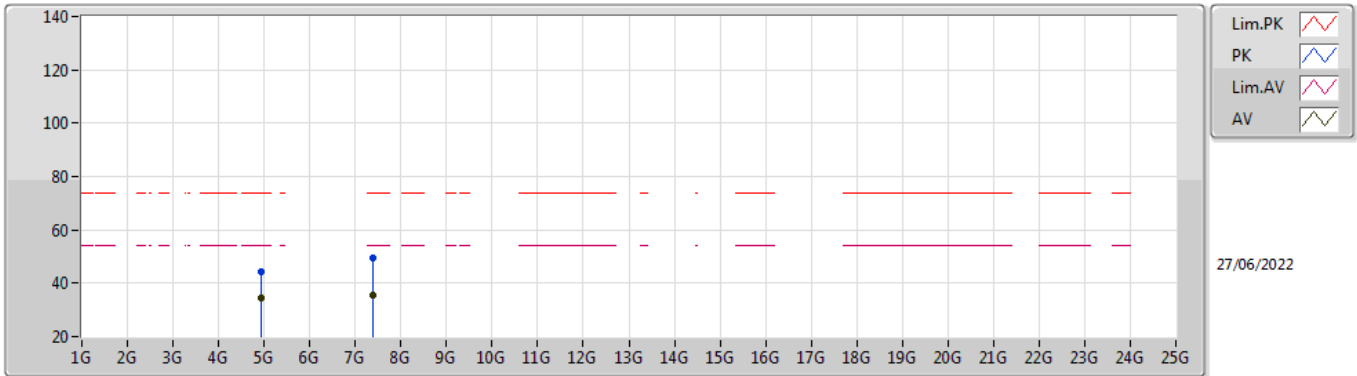


EUT\_Z\_2TX  
Setting 106  
06-F-S-5

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	2.463G	121.01	Inf	-Inf	89.87	3	Vertical	172	1.85	-	27.23	3.91	-
AV	2.4612G	116.93	Inf	-Inf	85.80	3	Vertical	172	1.85	-	27.22	3.91	-
PK	2.4838G	64.99	74.00	-9.01	33.81	3	Vertical	172	1.85	-	27.27	3.91	-
AV	2.4835G	53.50	54.00	-0.50	22.32	3	Vertical	172	1.85	-	27.27	3.91	-

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

### 2462MHz\_TX

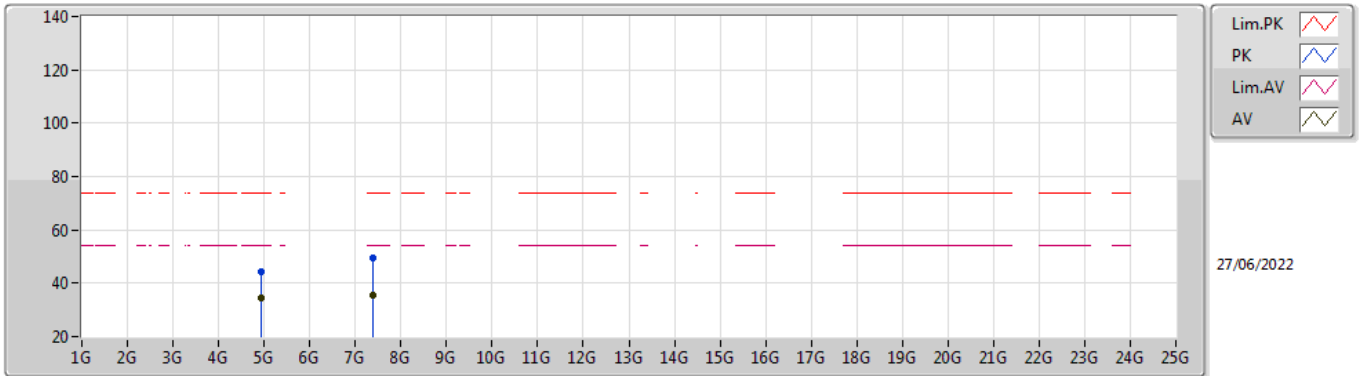


EUT\_Z\_2TX  
Setting 106  
02-B-C-6

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	4.92394G	44.47	74.00	-29.53	38.71	3	Vertical	112	2.09	-	33.25	4.70	32.19
AV	4.924G	34.29	54.00	-19.71	28.53	3	Vertical	112	2.09	-	33.25	4.70	32.19
PK	7.38678G	49.52	74.00	-24.48	40.18	3	Vertical	311	1.53	-	36.50	5.79	32.95
AV	7.37988G	35.42	54.00	-18.58	26.07	3	Vertical	311	1.53	-	36.50	5.79	32.94

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

### 2462MHz\_TX

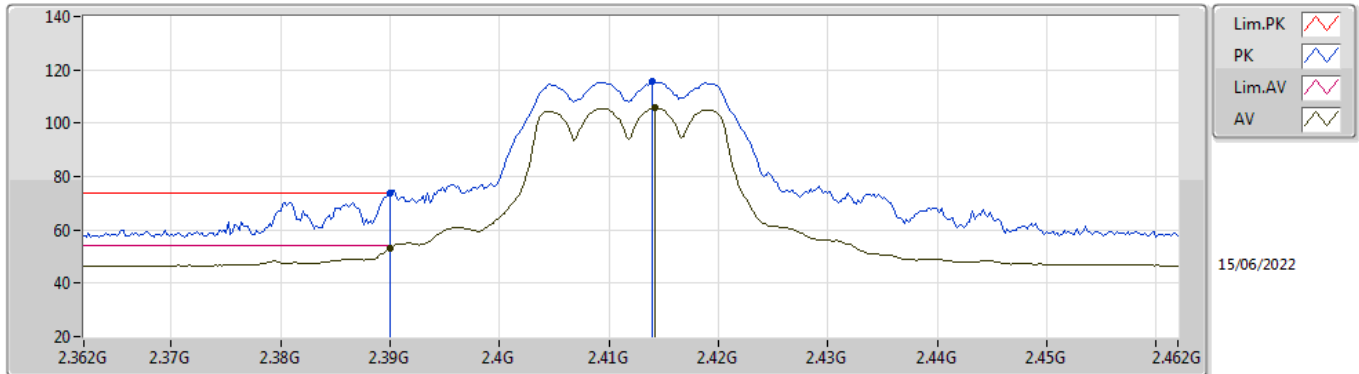


EUT\_Z\_2TX  
Setting 106  
02-B-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92406G	44.25	74.00	-29.75	38.49	3	Horizontal	305	1.65	-	33.25	4.70	32.19
AV	4.924G	34.41	54.00	-19.59	28.65	3	Horizontal	305	1.65	-	33.25	4.70	32.19
PK	7.37394G	49.32	74.00	-24.68	39.96	3	Horizontal	120	1.68	-	36.50	5.79	32.93
AV	7.37238G	35.46	54.00	-18.54	26.10	3	Horizontal	120	1.68	-	36.50	5.79	32.93

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

### 2412MHz\_TX

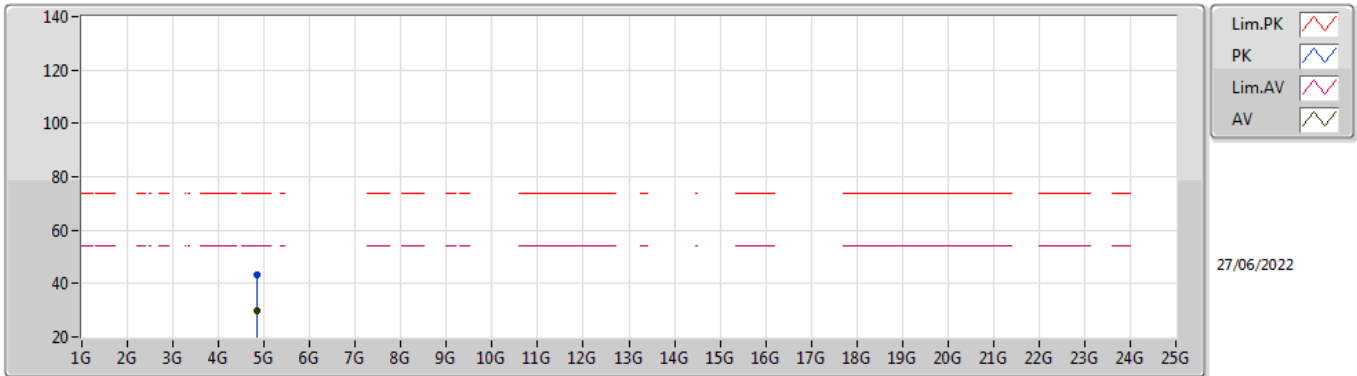


EUT\_Z\_2TX  
Setting 84  
06-F-S-5

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	2.39G	73.86	74.00	-0.14	42.49	3	Vertical	177	1.72	-	27.48	3.89	-
AV	2.39G	53.21	54.00	-0.79	21.84	3	Vertical	177	1.72	-	27.48	3.89	-
PK	2.414G	115.45	Inf	-Inf	84.21	3	Vertical	177	1.72	-	27.34	3.90	-
AV	2.4142G	105.67	Inf	-Inf	74.43	3	Vertical	177	1.72	-	27.34	3.90	-

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

### 2412MHz\_TX



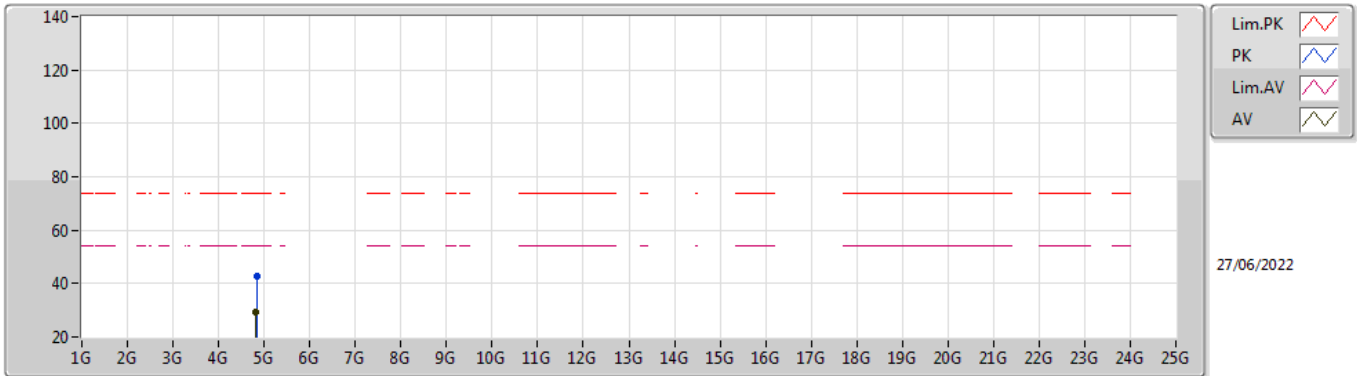
EUT\_Z\_2TX  
Setting 84  
02-B-C-6

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	4.8285G	43.02	74.00	-30.98	37.57	3	Vertical	238	1.66	-	32.97	4.70	32.22
AV	4.83474G	29.57	54.00	-24.43	24.08	3	Vertical	238	1.66	-	33.01	4.70	32.22



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

### 2412MHz\_TX

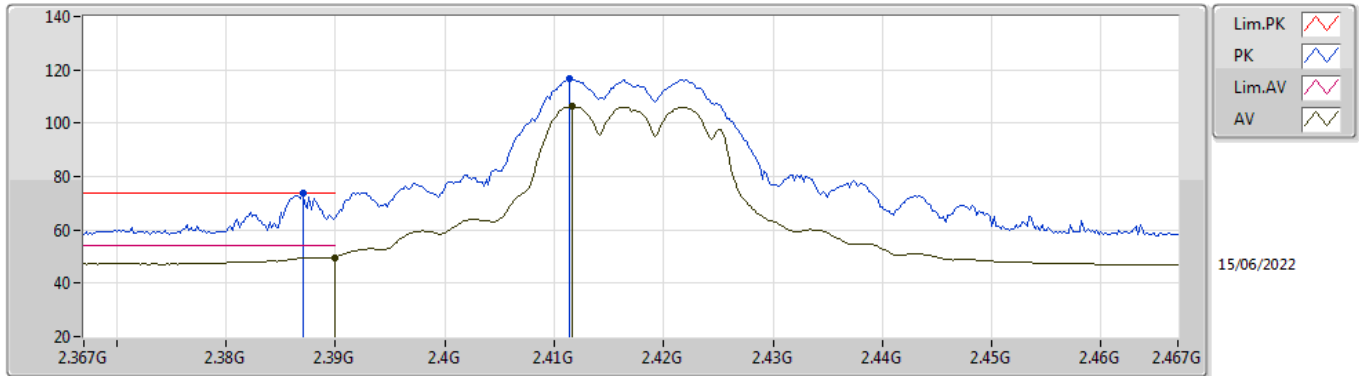


EUT\_Z\_2TX  
Setting 84  
02-B-C-6

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	4.83864G	42.81	74.00	-31.19	37.30	3	Horizontal	292	2.73	-	33.03	4.70	32.22
AV	4.8234G	29.52	54.00	-24.48	24.10	3	Horizontal	292	2.73	-	32.94	4.70	32.22

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

### 2417MHz\_TX

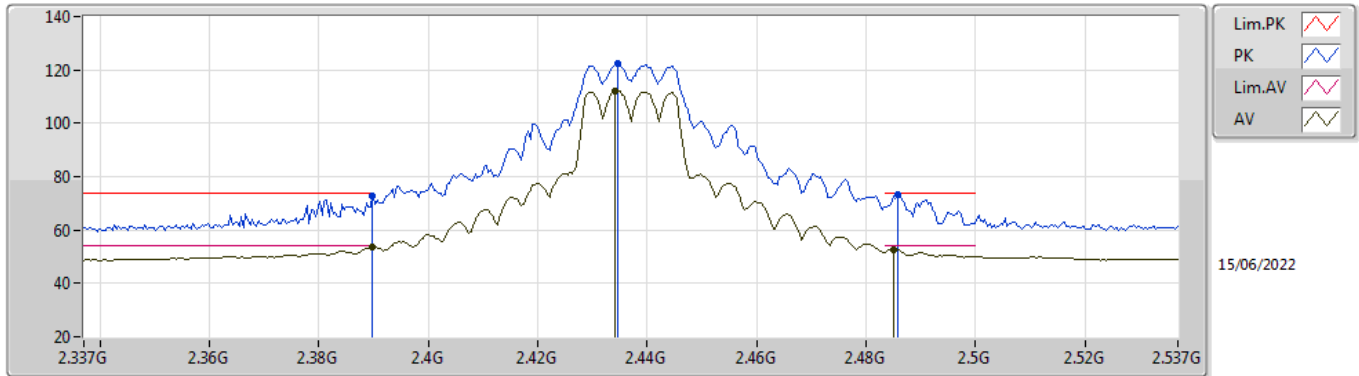


EUT\_Z\_2TX  
Setting 86  
06-F-S-5

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	2.387G	73.73	74.00	-0.27	42.35	3	Vertical	177	1.75	-	27.50	3.88	-
AV	2.39G	49.66	54.00	-4.34	18.29	3	Vertical	177	1.75	-	27.48	3.89	-
PK	2.4114G	116.53	Inf	-Inf	85.28	3	Vertical	177	1.75	-	27.35	3.90	-
AV	2.4116G	106.22	Inf	-Inf	74.97	3	Vertical	177	1.75	-	27.35	3.90	-

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

### 2437MHz\_TX

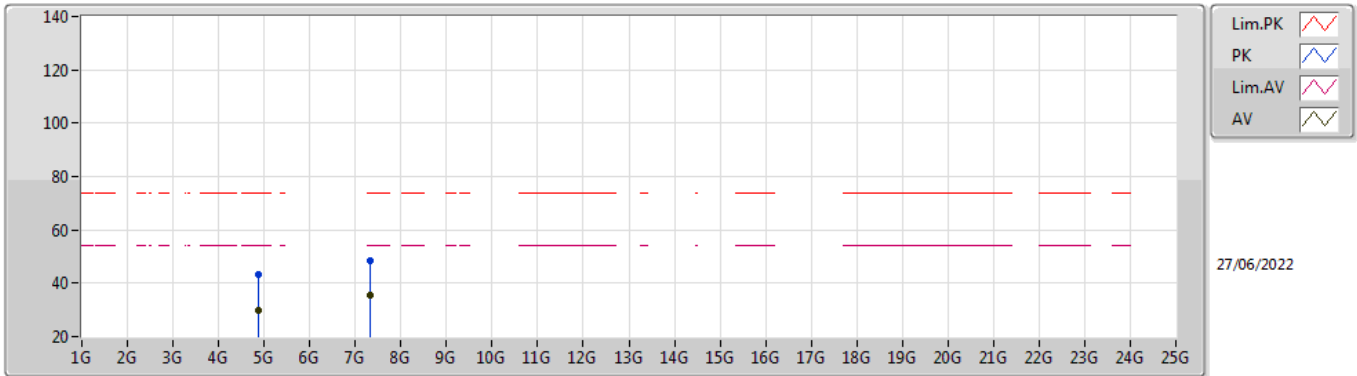


EUT\_Z\_2TX  
Setting 107  
06-F-S-5

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	72.69	74.00	-1.31	41.32	3	Vertical	52	2.64	-	27.48	3.89	-
AV	2.3898G	53.58	54.00	-0.42	22.21	3	Vertical	52	2.64	-	27.48	3.89	-
PK	2.4346G	122.21	Inf	-Inf	91.04	3	Vertical	52	2.64	-	27.26	3.91	-
AV	2.4342G	112.25	Inf	-Inf	81.08	3	Vertical	52	2.64	-	27.26	3.91	-
PK	2.4858G	73.17	74.00	-0.83	41.99	3	Vertical	52	2.64	-	27.27	3.91	-
AV	2.485G	52.82	54.00	-1.18	21.64	3	Vertical	52	2.64	-	27.27	3.91	-

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

### 2437MHz\_TX

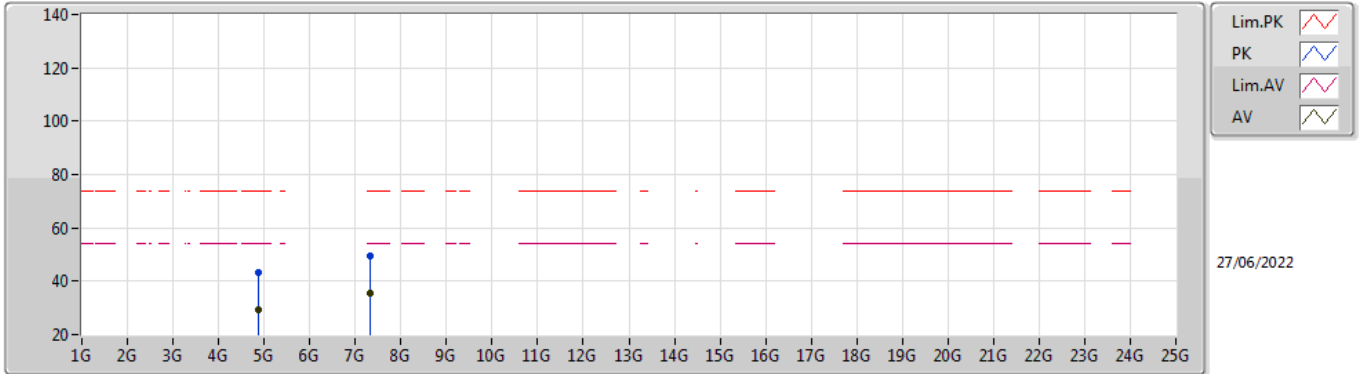


EUT\_Z\_2TX  
Setting 107  
02-B-C-6

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	4.87508G	43.04	74.00	-30.96	37.39	3	Vertical	103	2.80	-	33.15	4.70	32.20
AV	4.86482G	29.60	54.00	-24.40	23.98	3	Vertical	103	2.80	-	33.13	4.70	32.21
PK	7.32504G	48.51	74.00	-25.49	39.15	3	Vertical	76	1.19	-	36.45	5.76	32.85
AV	7.31766G	35.29	54.00	-18.71	25.92	3	Vertical	76	1.19	-	36.44	5.76	32.83

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

### 2437MHz\_TX

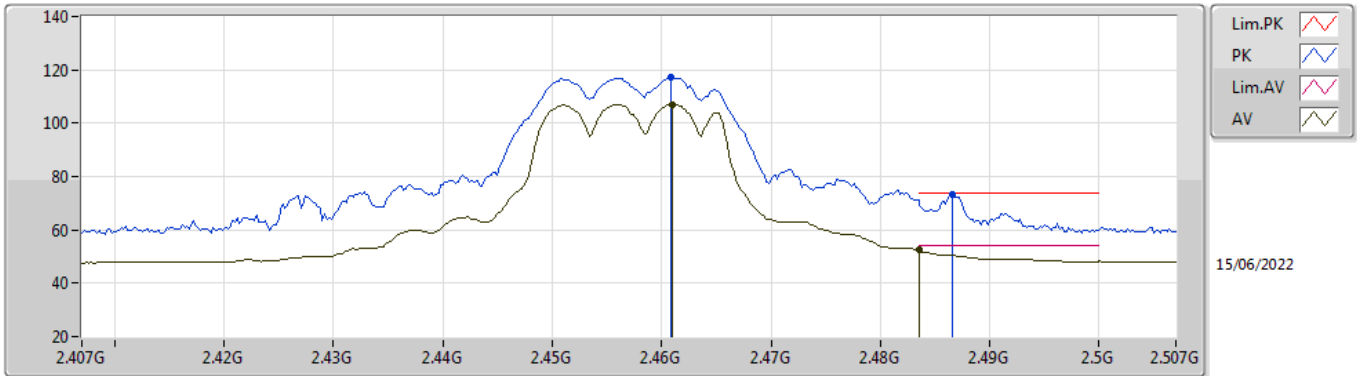


EUT\_Z\_2TX  
Setting 107  
02-B-C-6

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	4.88426G	43.34	74.00	-30.66	37.67	3	Horizontal	347	1.35	-	33.17	4.70	32.20
AV	4.87064G	29.51	54.00	-24.49	23.88	3	Horizontal	347	1.35	-	33.14	4.70	32.21
PK	7.31838G	49.39	74.00	-24.61	40.02	3	Horizontal	145	1.00	-	36.44	5.76	32.83
AV	7.32282G	35.30	54.00	-18.70	25.93	3	Horizontal	145	1.00	-	36.45	5.76	32.84

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

### 2457MHz\_TX

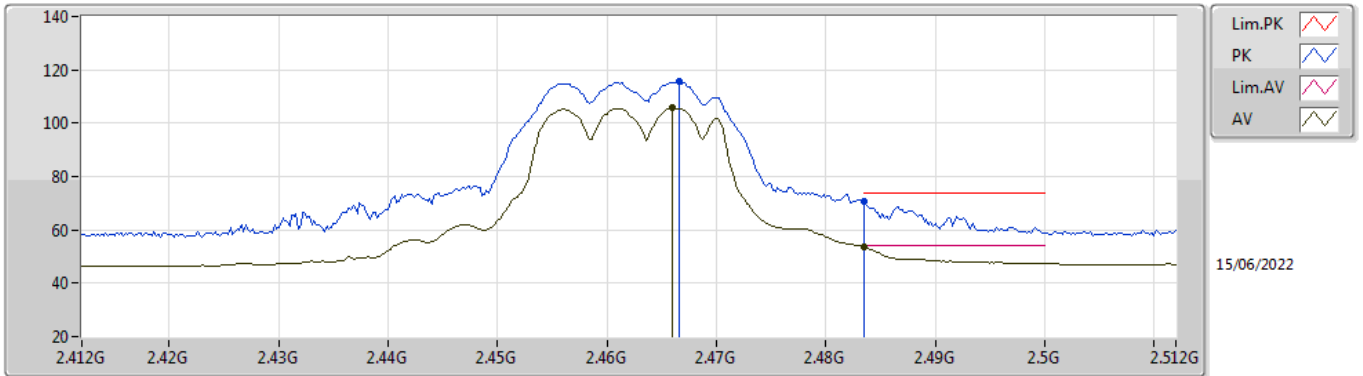


EUT\_Z\_2TX  
Setting 86  
06-F-S-5

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	2.4608G	117.15	Inf	-Inf	86.02	3	Vertical	40	2.74	-	27.22	3.91	-
AV	2.461G	107.12	Inf	-Inf	75.99	3	Vertical	40	2.74	-	27.22	3.91	-
PK	2.4866G	73.06	74.00	-0.94	41.88	3	Vertical	40	2.74	-	27.27	3.91	-
AV	2.4835G	52.45	54.00	-1.55	21.27	3	Vertical	40	2.74	-	27.27	3.91	-

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

### 2462MHz\_TX

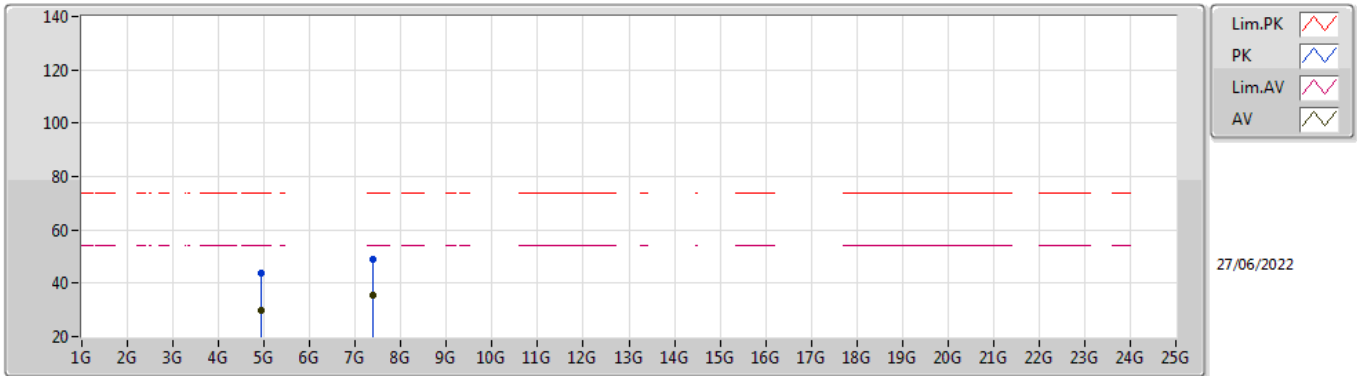


EUT\_Z\_2TX  
Setting 84  
06-F-S-5

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	2.4666G	115.64	Inf	-Inf	84.50	3	Vertical	40	2.80	-	27.23	3.91	-
AV	2.466G	105.65	Inf	-Inf	74.51	3	Vertical	40	2.80	-	27.23	3.91	-
PK	2.4835G	70.63	74.00	-3.37	39.45	3	Vertical	40	2.80	-	27.27	3.91	-
AV	2.4835G	53.61	54.00	-0.39	22.43	3	Vertical	40	2.80	-	27.27	3.91	-

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

### 2462MHz\_TX



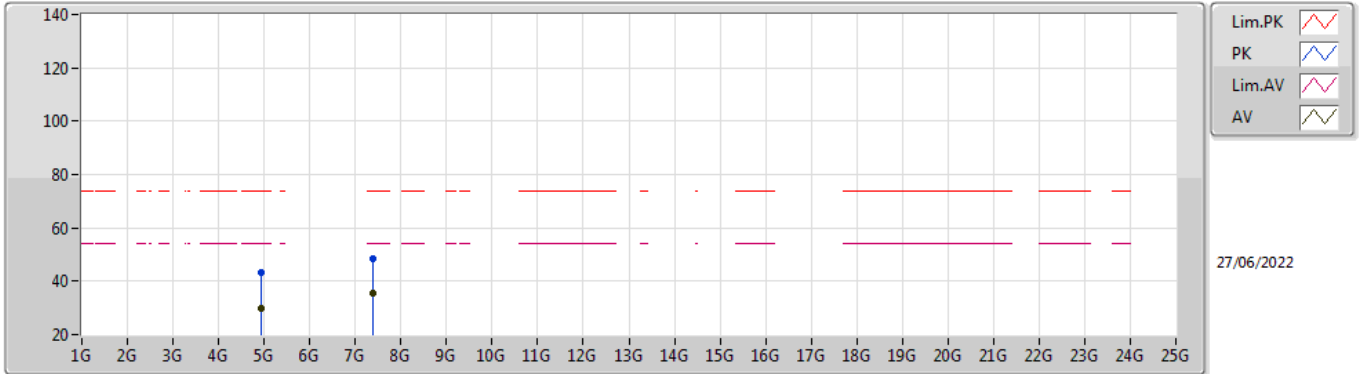
EUT\_Z\_2TX  
Setting 84  
02-B-C-6

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	4.93684G	43.83	74.00	-30.17	38.04	3	Vertical	85	1.14	-	33.27	4.70	32.18
AV	4.92766G	29.67	54.00	-24.33	23.90	3	Vertical	85	1.14	-	33.26	4.70	32.19
PK	7.37808G	48.72	74.00	-25.28	39.37	3	Vertical	120	1.84	-	36.50	5.79	32.94
AV	7.37244G	35.42	54.00	-18.58	26.06	3	Vertical	120	1.84	-	36.50	5.79	32.93



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

### 2462MHz\_TX

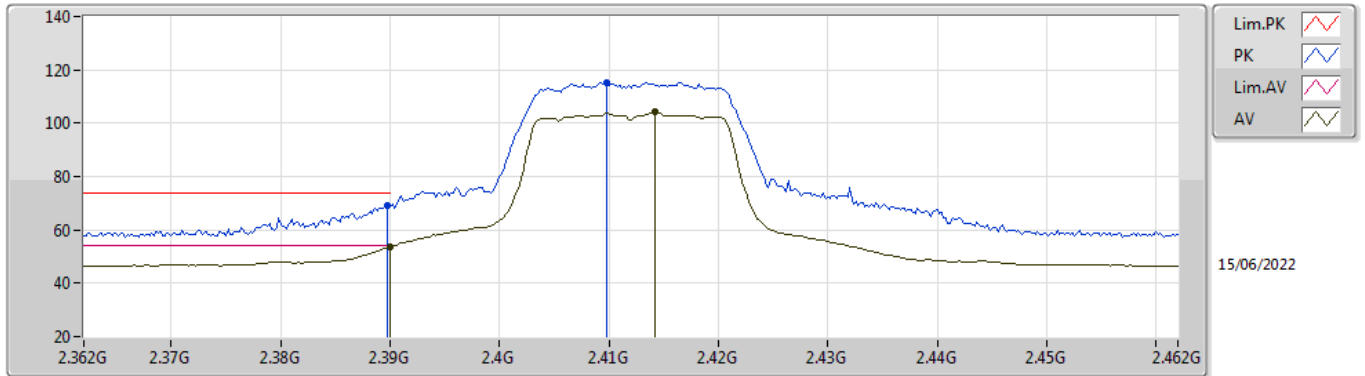


EUT\_Z\_2TX  
Setting 84  
02-B-C-6

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	4.9294G	43.02	74.00	-30.98	37.25	3	Horizontal	180	1.67	-	33.26	4.70	32.19
AV	4.92592G	29.71	54.00	-24.29	23.95	3	Horizontal	180	1.67	-	33.25	4.70	32.19
PK	7.39236G	48.50	74.00	-25.50	39.16	3	Horizontal	14	1.51	-	36.50	5.80	32.96
AV	7.374G	35.48	54.00	-18.52	26.12	3	Horizontal	14	1.51	-	36.50	5.79	32.93

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

### 2412MHz\_TX

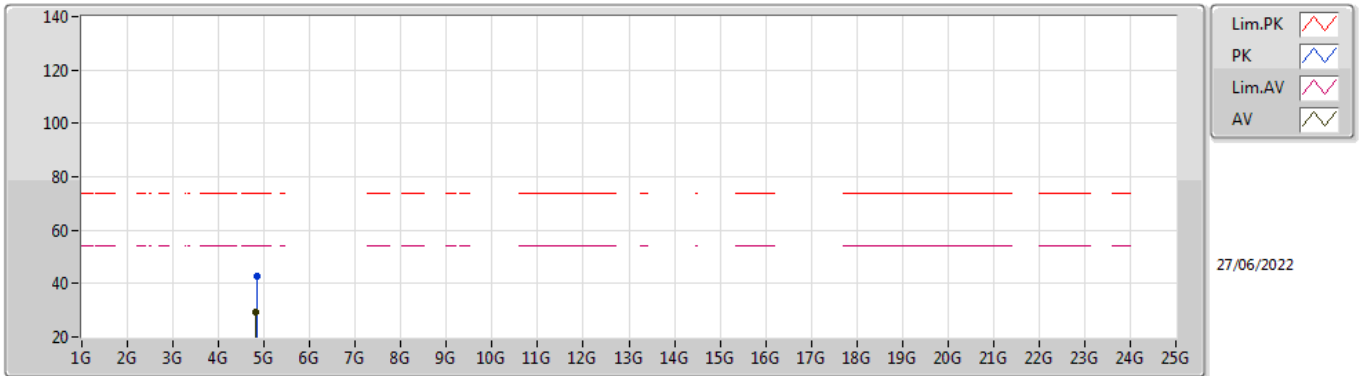


EUT\_Z\_2TX  
Setting 84  
06-F-S-5

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	2.3898G	69.02	74.00	-4.98	37.65	3	Vertical	176	1.75	-	27.48	3.89	-
AV	2.39G	53.65	54.00	-0.35	22.28	3	Vertical	176	1.75	-	27.48	3.89	-
PK	2.4098G	115.18	Inf	-Inf	83.92	3	Vertical	176	1.75	-	27.36	3.90	-
AV	2.4142G	104.46	Inf	-Inf	73.22	3	Vertical	176	1.75	-	27.34	3.90	-

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

### 2412MHz\_TX

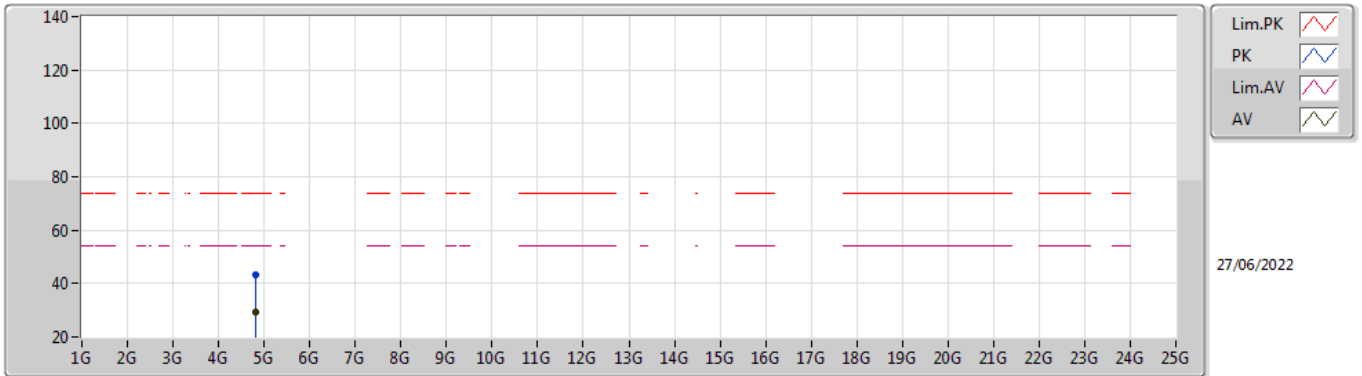


EUT\_Z\_2TX  
Setting 84  
02-B-C-6

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	4.83546G	42.69	74.00	-31.31	37.20	3	Vertical	238	2.57	-	33.01	4.70	32.22
AV	4.82478G	29.45	54.00	-24.55	24.02	3	Vertical	238	2.57	-	32.95	4.70	32.22

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

### 2412MHz\_TX

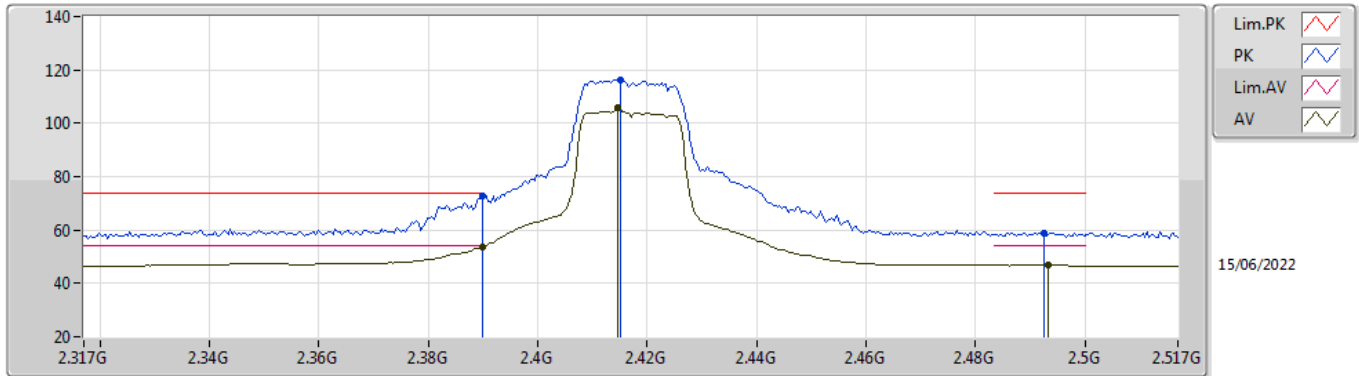


EUT\_Z\_2TX  
Setting 84  
02-B-C-6

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	4.8207G	43.15	74.00	-30.85	37.75	3	Horizontal	62	2.67	-	32.92	4.70	32.22
AV	4.81344G	29.42	54.00	-24.58	24.07	3	Horizontal	62	2.67	-	32.88	4.70	32.23

802.11ax HEW20\_Nss2,(MCS0)\_2TX

2417MHz\_TX

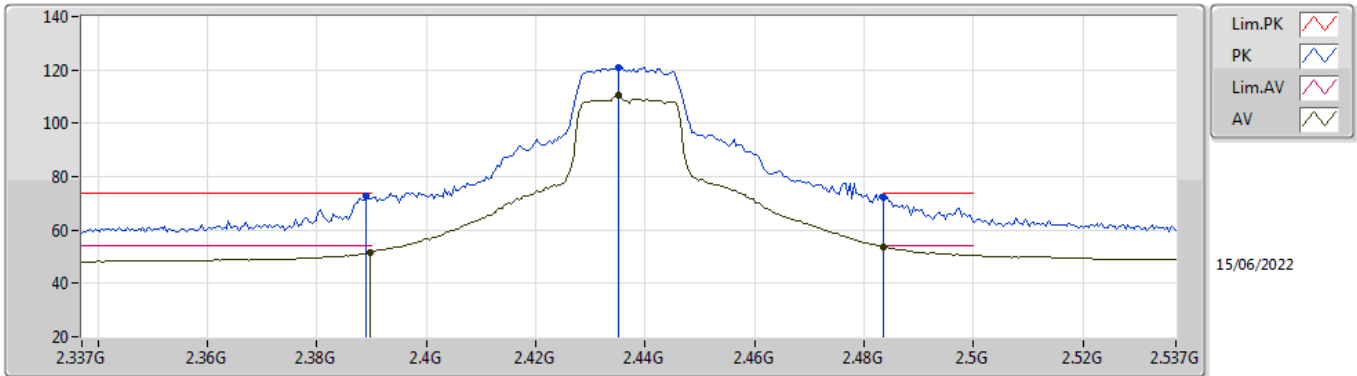


EUT\_Z\_2TX  
Setting 89  
06-F-S-5

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	72.67	74.00	-1.33	41.30	3	Vertical	167	1.71	-	27.48	3.89	-
AV	2.3898G	53.68	54.00	-0.32	22.31	3	Vertical	167	1.71	-	27.48	3.89	-
PK	2.415G	116.37	Inf	-Inf	85.13	3	Vertical	167	1.71	-	27.34	3.90	-
AV	2.4146G	105.78	Inf	-Inf	74.54	3	Vertical	167	1.71	-	27.34	3.90	-
PK	2.4926G	59.00	74.00	-15.00	27.80	3	Vertical	167	1.71	-	27.29	3.91	-
AV	2.4934G	46.85	54.00	-7.15	15.65	3	Vertical	167	1.71	-	27.29	3.91	-

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

### 2437MHz\_TX

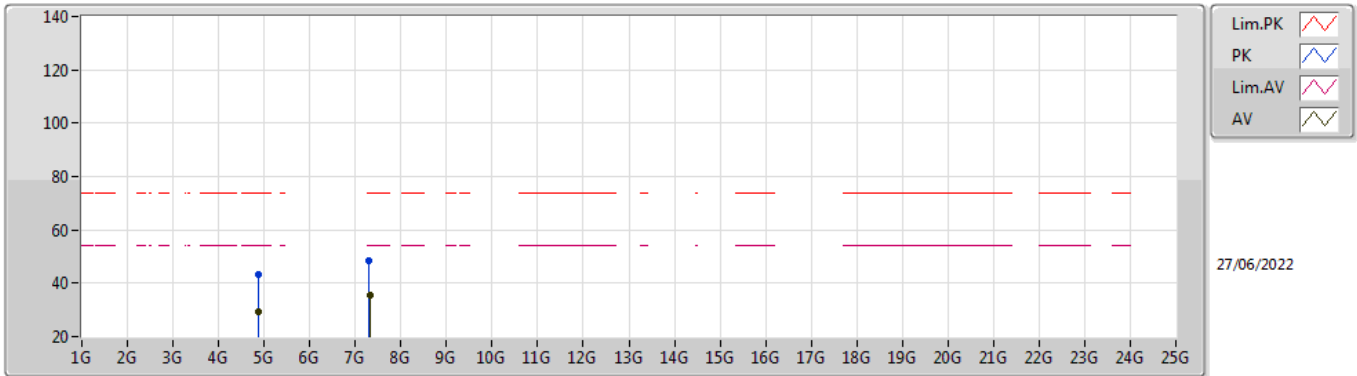


EUT\_Z\_2TX  
Setting 106  
06-F-S-5

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	72.59	74.00	-1.41	41.21	3	Vertical	31	2.58	-	27.49	3.89	-
AV	2.3898G	51.78	54.00	-2.22	20.41	3	Vertical	31	2.58	-	27.48	3.89	-
PK	2.435G	121.09	Inf	-Inf	89.92	3	Vertical	31	2.58	-	27.26	3.91	-
AV	2.435G	110.42	Inf	-Inf	79.25	3	Vertical	31	2.58	-	27.26	3.91	-
PK	2.4835G	72.45	74.00	-1.55	41.27	3	Vertical	31	2.58	-	27.27	3.91	-
AV	2.4835G	53.87	54.00	-0.13	22.69	3	Vertical	31	2.58	-	27.27	3.91	-

802.11ax HEW20\_Nss2,(MCS0)\_2TX

2437MHz\_TX

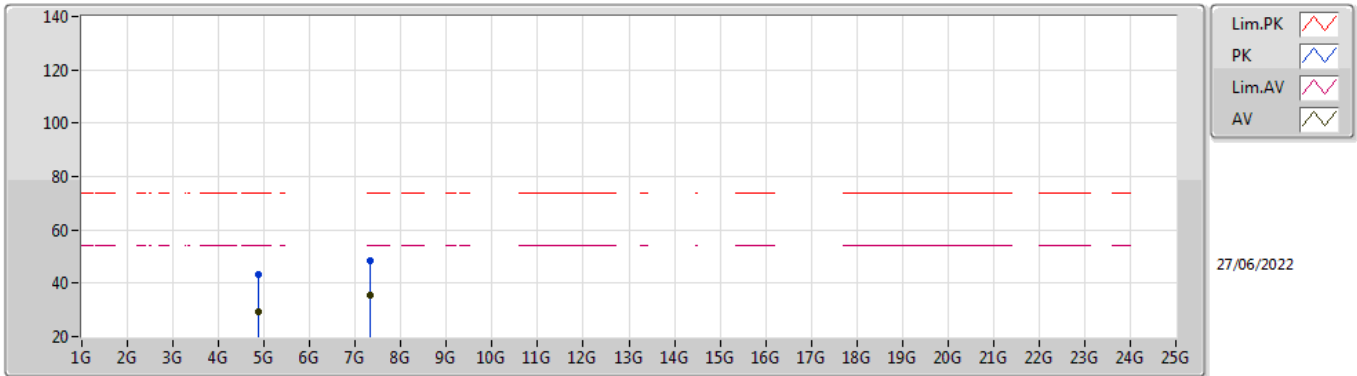


EUT Z\_2TX  
Setting 106  
02-B-C-6

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	4.86572G	43.07	74.00	-30.93	37.45	3	Vertical	256	1.02	-	33.13	4.70	32.21
AV	4.86302G	29.38	54.00	-24.62	23.76	3	Vertical	256	1.02	-	33.13	4.70	32.21
PK	7.30308G	48.55	74.00	-25.45	39.20	3	Vertical	248	2.80	-	36.41	5.75	32.81
AV	7.3173G	35.29	54.00	-18.71	25.93	3	Vertical	248	2.80	-	36.43	5.76	32.83

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

### 2437MHz\_TX



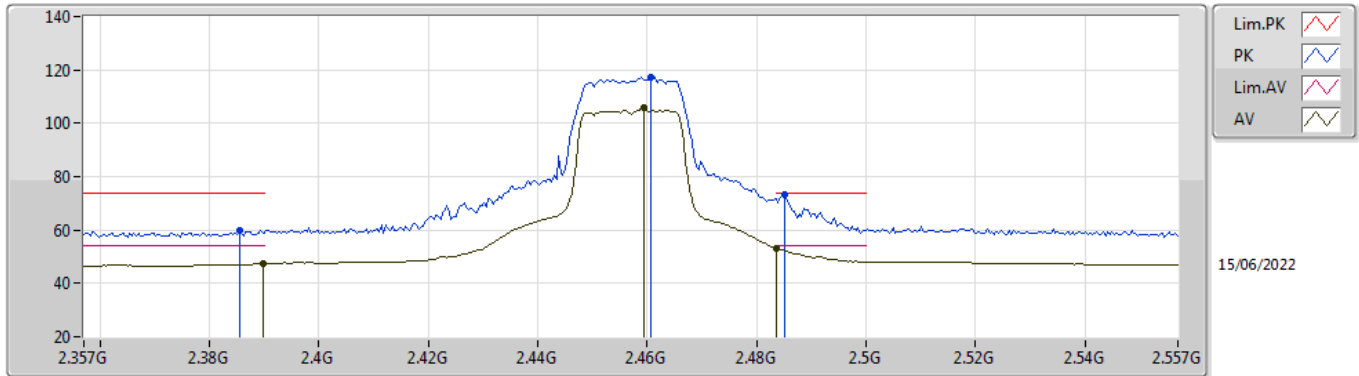
EUT Z\_2TX  
Setting 106  
02-B-C-6

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	4.8845G	43.11	74.00	-30.89	37.44	3	Horizontal	317	1.16	-	33.17	4.70	32.20
AV	4.86494G	29.34	54.00	-24.66	23.72	3	Horizontal	317	1.16	-	33.13	4.70	32.21
PK	7.31076G	48.53	74.00	-25.47	39.17	3	Horizontal	106	2.50	-	36.42	5.76	32.82
AV	7.3194G	35.31	54.00	-18.69	25.95	3	Horizontal	106	2.50	-	36.44	5.76	32.84



### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

### 2457MHz\_TX

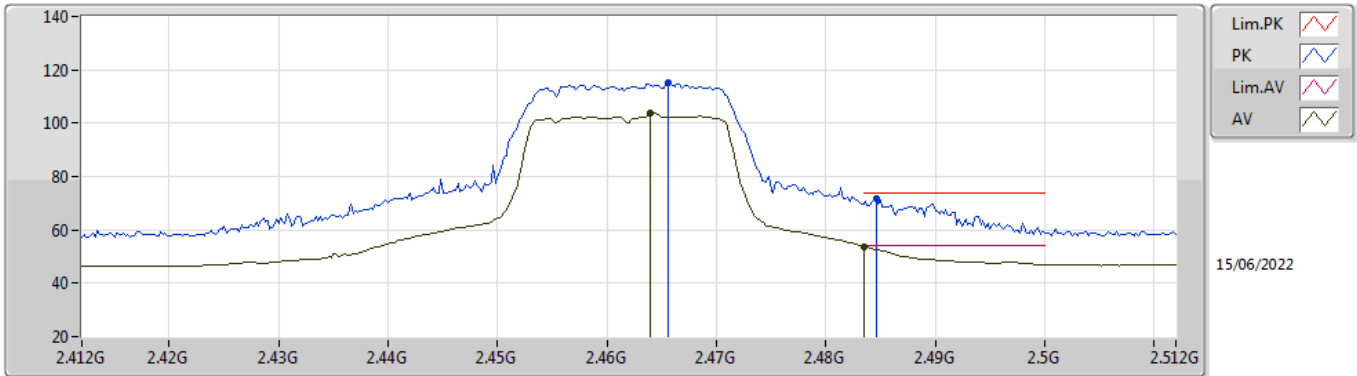


EUT\_Z\_2TX  
Setting 87  
06-F-S-5

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	2.3854G	59.90	74.00	-14.10	28.50	3	Vertical	39	2.68	-	27.52	3.88	-
AV	2.3898G	47.42	54.00	-6.58	16.05	3	Vertical	39	2.68	-	27.48	3.89	-
PK	2.4606G	117.20	Inf	-Inf	86.07	3	Vertical	39	2.68	-	27.22	3.91	-
AV	2.4594G	106.06	Inf	-Inf	74.93	3	Vertical	39	2.68	-	27.22	3.91	-
PK	2.485G	73.08	74.00	-0.92	41.90	3	Vertical	39	2.68	-	27.27	3.91	-
AV	2.4835G	53.30	54.00	-0.70	22.12	3	Vertical	39	2.68	-	27.27	3.91	-

### 802.11ax HEW20\_Nss2,(MCS0)\_2TX

### 2462MHz\_TX

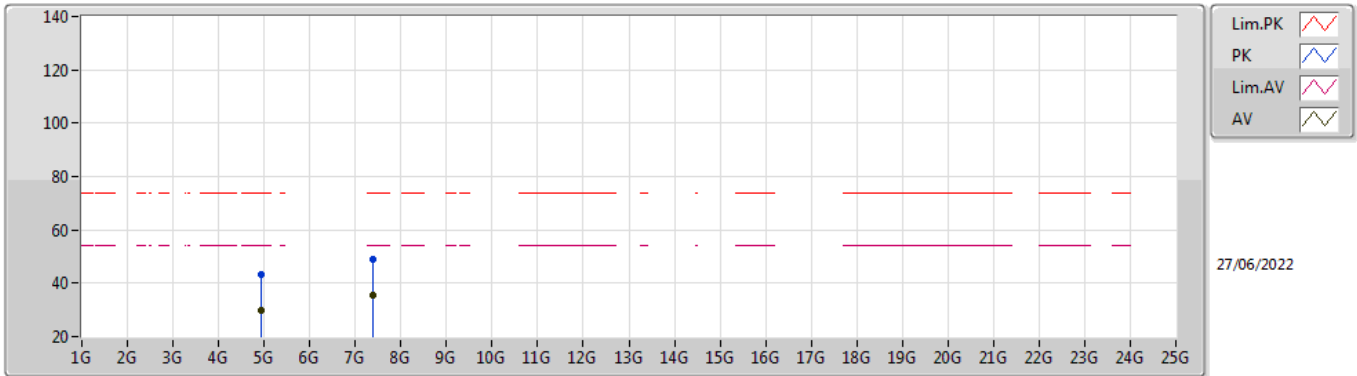


EUT\_Z\_2TX  
Setting 85  
06-F-S-5

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	2.4656G	114.96	Inf	-Inf	83.82	3	Vertical	82	2.77	-	27.23	3.91	-
AV	2.464G	103.74	Inf	-Inf	72.60	3	Vertical	82	2.77	-	27.23	3.91	-
PK	2.4846G	71.52	74.00	-2.48	40.34	3	Vertical	82	2.77	-	27.27	3.91	-
AV	2.4835G	53.81	54.00	-0.19	22.63	3	Vertical	82	2.77	-	27.27	3.91	-

802.11ax HEW20\_Nss2,(MCS0)\_2TX

2462MHz\_TX

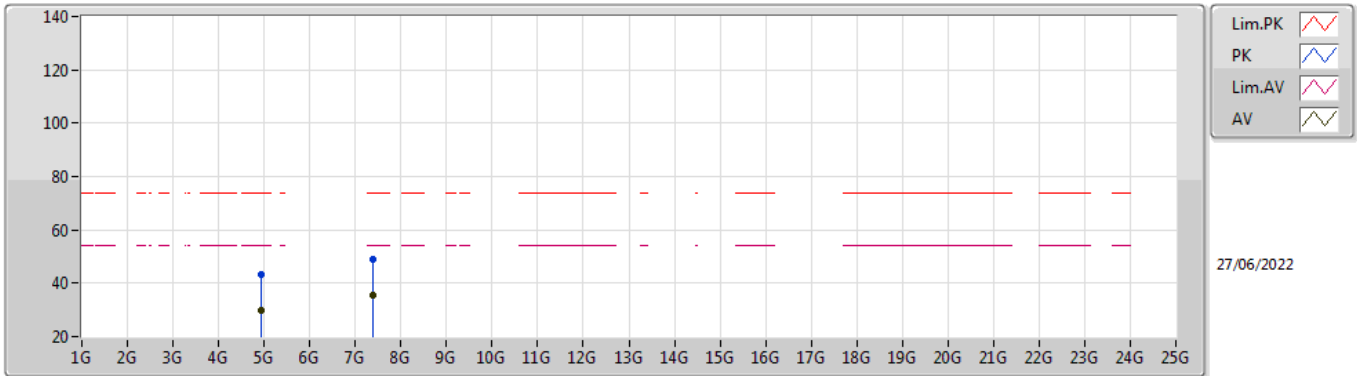


EUT\_Z\_2TX  
Setting 85  
02-B-C-6

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	4.93846G	43.32	74.00	-30.68	37.52	3	Vertical	83	1.44	-	33.28	4.70	32.18
AV	4.93678G	29.70	54.00	-24.30	23.91	3	Vertical	83	1.44	-	33.27	4.70	32.18
PK	7.38372G	48.93	74.00	-25.07	39.59	3	Vertical	14	1.50	-	36.50	5.79	32.95
AV	7.3797G	35.38	54.00	-18.62	26.03	3	Vertical	14	1.50	-	36.50	5.79	32.94

802.11ax HEW20\_Nss2,(MCS0)\_2TX

2462MHz\_TX

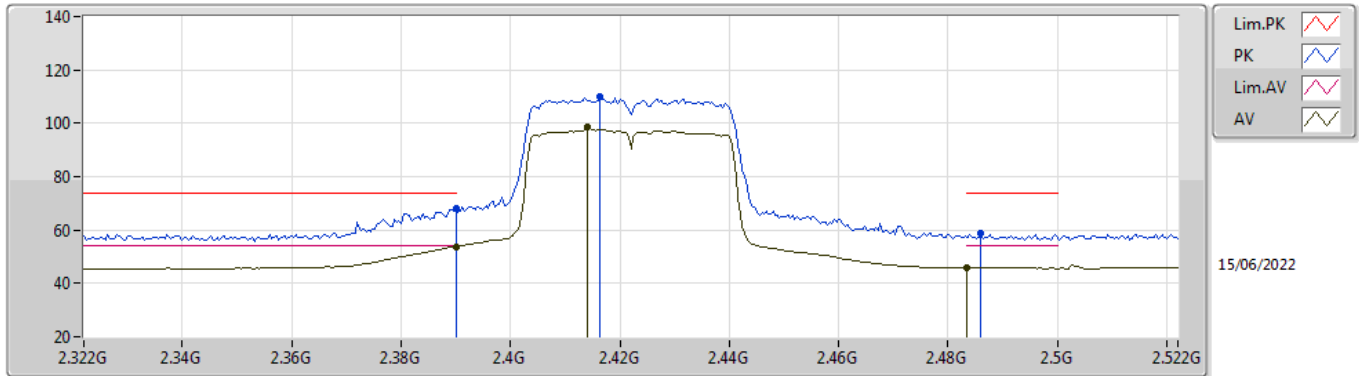


EUT\_Z\_2TX  
Setting 85  
02-B-C-6

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	4.92496G	43.36	74.00	-30.64	37.60	3	Horizontal	212	2.72	-	33.25	4.70	32.19
AV	4.92646G	29.68	54.00	-24.32	23.92	3	Horizontal	212	2.72	-	33.25	4.70	32.19
PK	7.37958G	48.96	74.00	-25.04	39.61	3	Horizontal	68	2.88	-	36.50	5.79	32.94
AV	7.37154G	35.35	54.00	-18.65	25.99	3	Horizontal	68	2.88	-	36.50	5.79	32.93

802.11ax HEW40\_Nss2,(MCS0)\_2TX

2422MHz\_TX

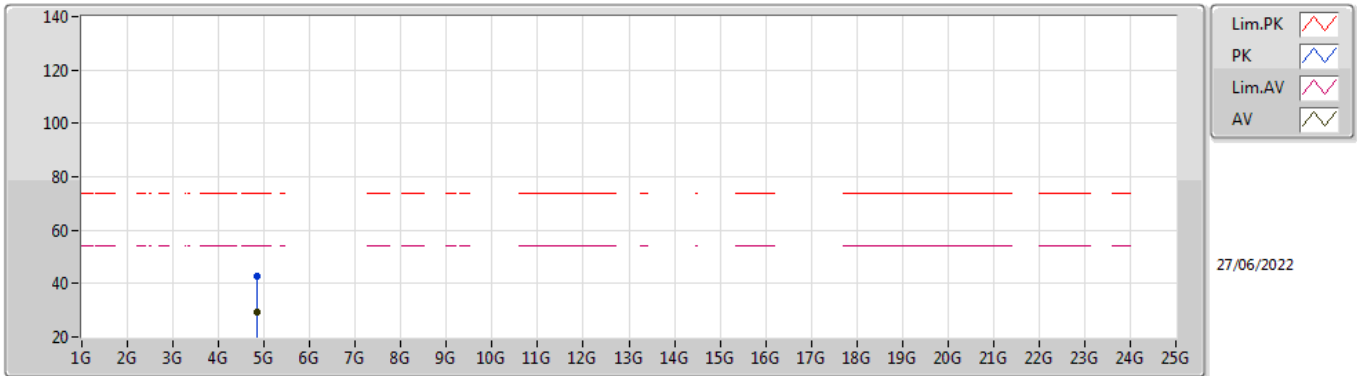


EUT\_Z\_2TX  
Setting 75  
06-F-S-5

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	68.22	74.00	-5.78	36.85	3	Vertical	178	1.74	-	27.48	3.89	-
AV	2.39G	53.65	54.00	-0.35	22.28	3	Vertical	178	1.74	-	27.48	3.89	-
PK	2.4164G	110.18	Inf	-Inf	78.95	3	Vertical	178	1.74	-	27.33	3.90	-
AV	2.414G	98.76	Inf	-Inf	67.52	3	Vertical	178	1.74	-	27.34	3.90	-
PK	2.486G	58.75	74.00	-15.25	27.57	3	Vertical	178	1.74	-	27.27	3.91	-
AV	2.4835G	45.89	54.00	-8.11	14.71	3	Vertical	178	1.74	-	27.27	3.91	-

### 802.11ax HEW40\_Nss2,(MCS0)\_2TX

### 2422MHz\_TX

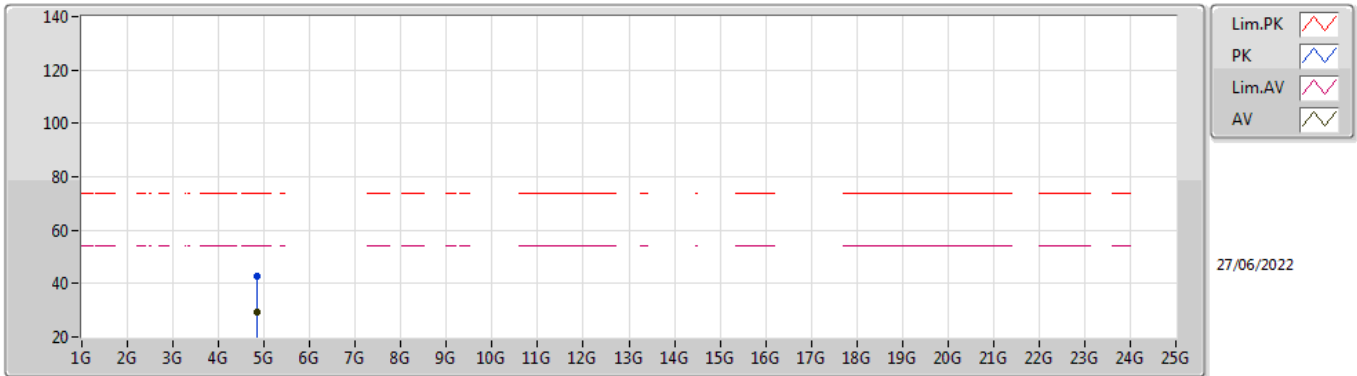


EUT\_Z\_2TX  
Setting 75  
02-B-C-6

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	4.847G	43.01	74.00	-30.99	37.45	3	Vertical	229	2.01	-	33.08	4.70	32.22
AV	4.8359G	29.37	54.00	-24.63	23.87	3	Vertical	229	2.01	-	33.02	4.70	32.22

### 802.11ax HEW40\_Nss2,(MCS0)\_2TX

### 2422MHz\_TX

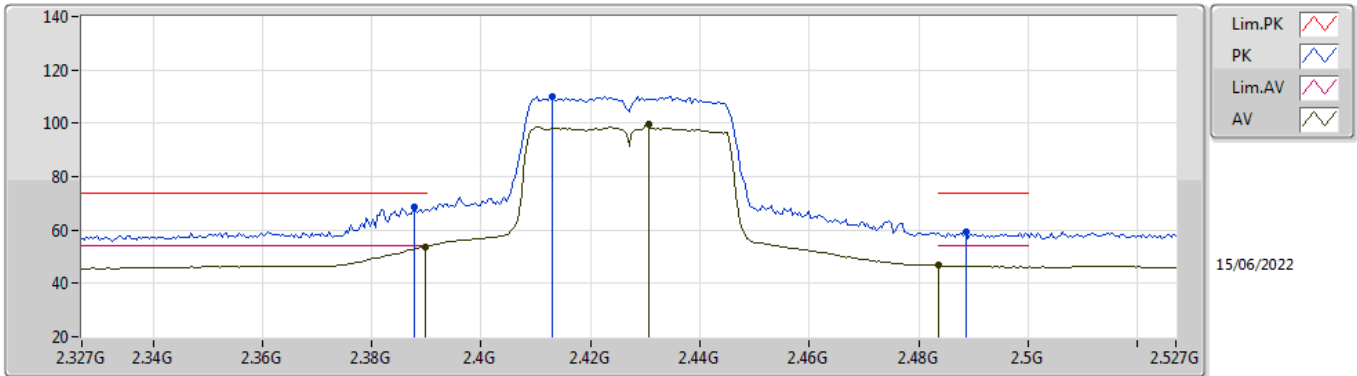


EUT\_Z\_2TX  
Setting 75  
02-B-C-6

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	4.83464G	42.81	74.00	-31.19	37.32	3	Horizontal	185	1.51	-	33.01	4.70	32.22
AV	4.8347G	29.44	54.00	-24.56	23.95	3	Horizontal	185	1.51	-	33.01	4.70	32.22

### 802.11ax HEW40\_Nss2,(MCS0)\_2TX

### 2427MHz\_TX



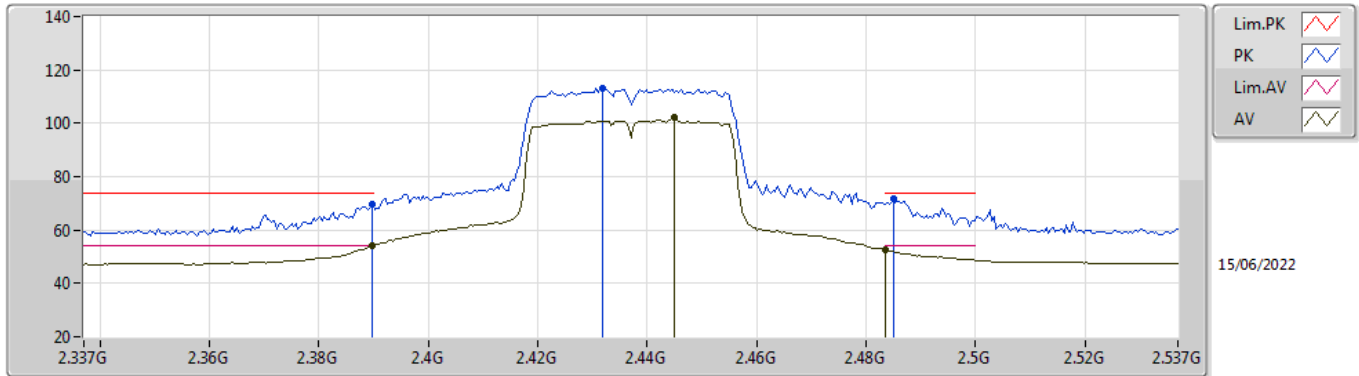
EUT\_Z\_2TX  
Setting 76  
06-F-S-5

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	2.3878G	68.69	74.00	-5.31	37.30	3	Vertical	47	2.68	-	27.50	3.89	-
AV	2.3898G	53.82	54.00	-0.18	22.45	3	Vertical	47	2.68	-	27.48	3.89	-
PK	2.413G	110.09	Inf	-Inf	78.84	3	Vertical	47	2.68	-	27.35	3.90	-
AV	2.4306G	99.47	Inf	-Inf	68.29	3	Vertical	47	2.68	-	27.28	3.90	-
PK	2.4886G	59.18	74.00	-14.82	27.99	3	Vertical	47	2.68	-	27.28	3.91	-
AV	2.4835G	46.65	54.00	-7.35	15.47	3	Vertical	47	2.68	-	27.27	3.91	-



802.11ax HEW40\_Nss2,(MCS0)\_2TX

2437MHz\_TX

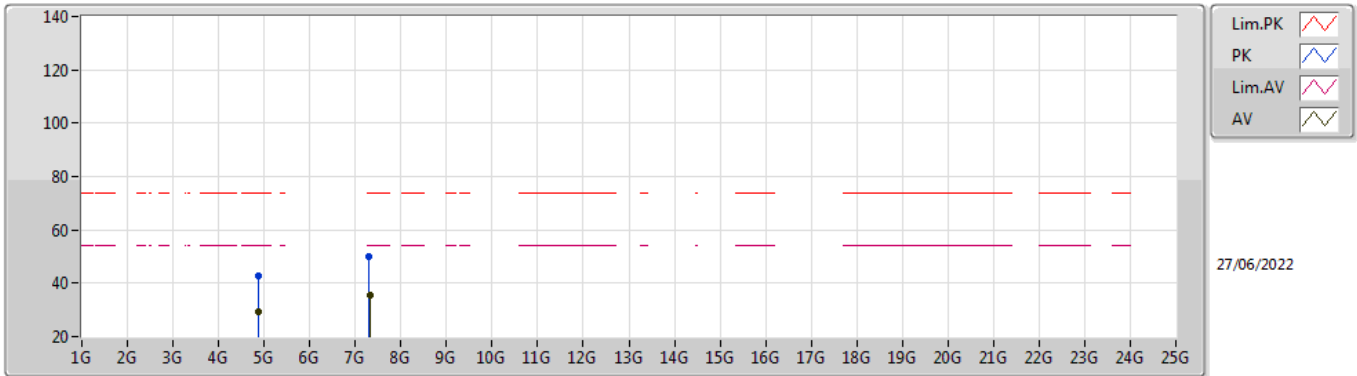


EUT\_Z\_2TX  
Setting 87  
06-F-S-5

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	69.76	74.00	-4.24	38.39	3	Vertical	56	2.32	-	27.48	3.89	-
AV	2.3898G	53.90	54.00	-0.10	22.53	3	Vertical	56	2.32	-	27.48	3.89	-
PK	2.4318G	113.12	Inf	-Inf	81.95	3	Vertical	56	2.32	-	27.27	3.90	-
AV	2.445G	102.12	Inf	-Inf	70.99	3	Vertical	56	2.32	-	27.22	3.91	-
PK	2.485G	71.54	74.00	-2.46	40.36	3	Vertical	56	2.32	-	27.27	3.91	-
AV	2.4835G	52.66	54.00	-1.34	21.48	3	Vertical	56	2.32	-	27.27	3.91	-

802.11ax HEW40\_Nss2,(MCS0)\_2TX

2437MHz\_TX

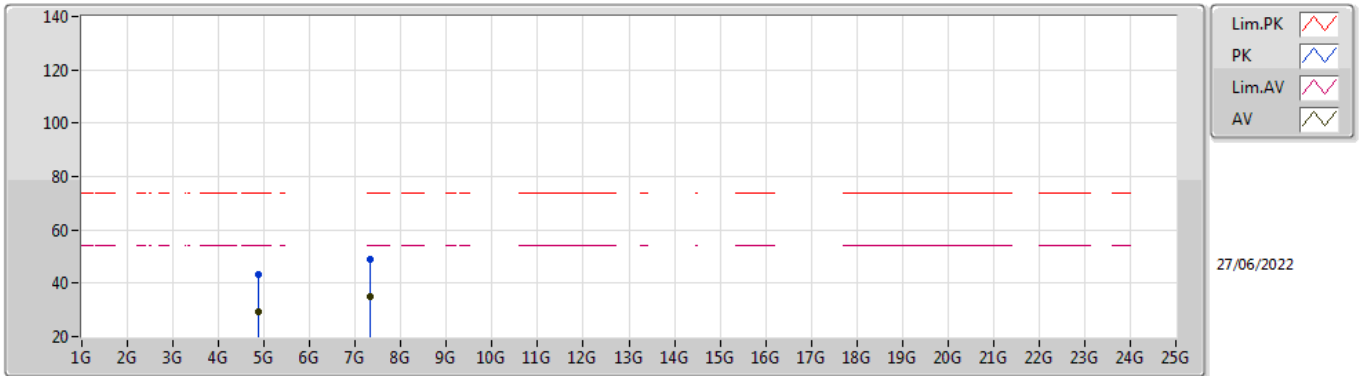


EUT\_Z\_2TX  
Setting 87  
02-B-C-6

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	4.8656G	42.58	74.00	-31.42	36.96	3	Vertical	126	1.66	-	33.13	4.70	32.21
AV	4.86452G	29.14	54.00	-24.86	23.52	3	Vertical	126	1.66	-	33.13	4.70	32.21
PK	7.30812G	50.01	74.00	-23.99	40.66	3	Vertical	146	1.10	-	36.42	5.75	32.82
AV	7.32462G	35.27	54.00	-18.73	25.90	3	Vertical	146	1.10	-	36.45	5.76	32.84

802.11ax HEW40\_Nss2,(MCS0)\_2TX

2437MHz\_TX

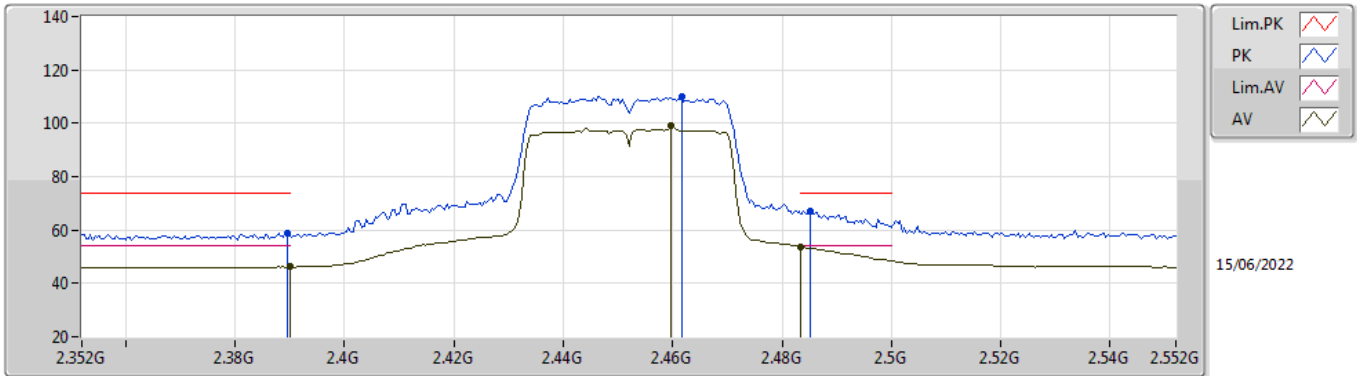


EUT\_Z\_2TX  
Setting 87  
02-B-C-6

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	4.8641G	43.37	74.00	-30.63	37.75	3	Horizontal	283	2.18	-	33.13	4.70	32.21
AV	4.865G	29.27	54.00	-24.73	23.65	3	Horizontal	283	2.18	-	33.13	4.70	32.21
PK	7.31646G	48.91	74.00	-25.09	39.55	3	Horizontal	0	2.21	-	36.43	5.76	32.83
AV	7.32528G	35.24	54.00	-18.76	25.88	3	Horizontal	0	2.21	-	36.45	5.76	32.85

### 802.11ax HEW40\_Nss2,(MCS0)\_2TX

### 2452MHz\_TX

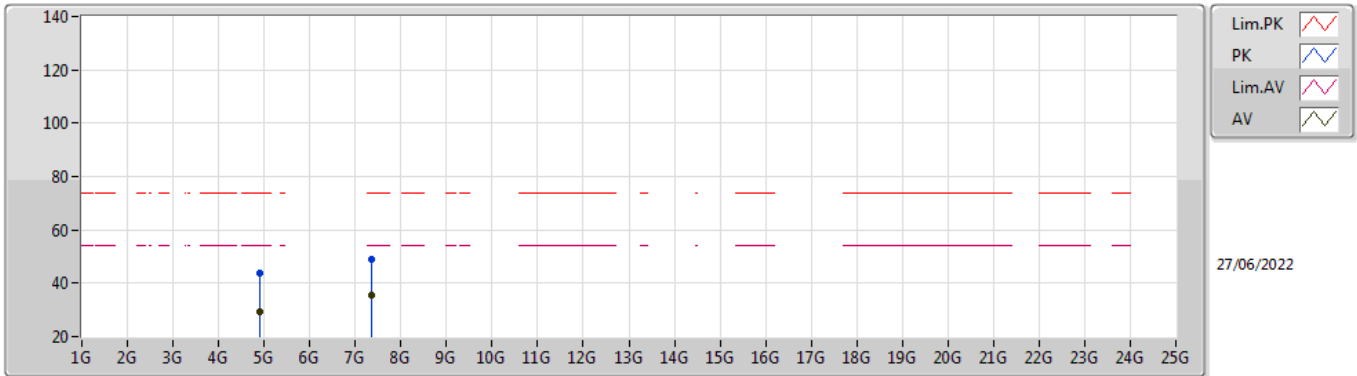


EUT\_Z\_2TX  
Setting 82  
06-F-S-5

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	58.88	74.00	-15.12	27.51	3	Vertical	171	1.86	-	27.48	3.89	-
AV	2.39G	46.23	54.00	-7.77	14.86	3	Vertical	171	1.86	-	27.48	3.89	-
PK	2.4616G	109.88	Inf	-Inf	78.75	3	Vertical	171	1.86	-	27.22	3.91	-
AV	2.4596G	98.98	Inf	-Inf	67.85	3	Vertical	171	1.86	-	27.22	3.91	-
PK	2.4852G	67.10	74.00	-6.90	35.92	3	Vertical	171	1.86	-	27.27	3.91	-
AV	2.4835G	53.75	54.00	-0.25	22.57	3	Vertical	171	1.86	-	27.27	3.91	-

### 802.11ax HEW40\_Nss2,(MCS0)\_2TX

### 2452MHz\_TX

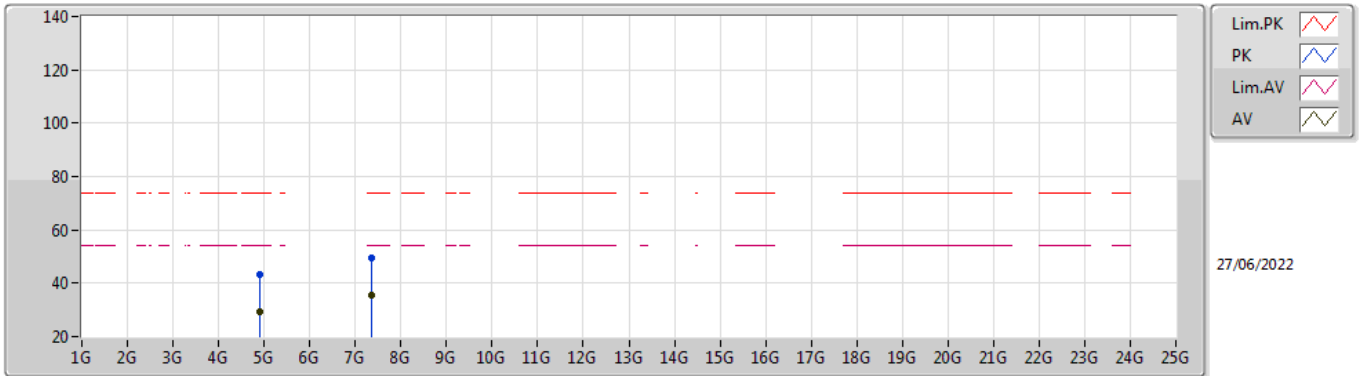


EUT\_Z\_2TX  
Setting 82  
02-B-C-6

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	4.91222G	43.91	74.00	-30.09	38.18	3	Vertical	309	2.60	-	33.22	4.70	32.19
AV	4.91828G	29.39	54.00	-24.61	23.64	3	Vertical	309	2.60	-	33.24	4.70	32.19
PK	7.35912G	49.11	74.00	-24.89	39.73	3	Vertical	60	1.08	-	36.50	5.78	32.90
AV	7.35246G	35.38	54.00	-18.62	25.99	3	Vertical	60	1.08	-	36.50	5.78	32.89

802.11ax HEW40\_Nss2,(MCS0)\_2TX

2452MHz\_TX



EUT\_Z\_2TX  
Setting 82  
02-B-C-6

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	4.90382G	43.49	74.00	-30.51	37.77	3	Horizontal	204	2.79	-	33.21	4.70	32.19
AV	4.91648G	29.31	54.00	-24.69	23.57	3	Horizontal	204	2.79	-	33.23	4.70	32.19
PK	7.34388G	49.53	74.00	-24.47	40.15	3	Horizontal	272	1.01	-	36.49	5.77	32.88
AV	7.34364G	35.31	54.00	-18.69	25.93	3	Horizontal	272	1.01	-	36.49	5.77	32.88

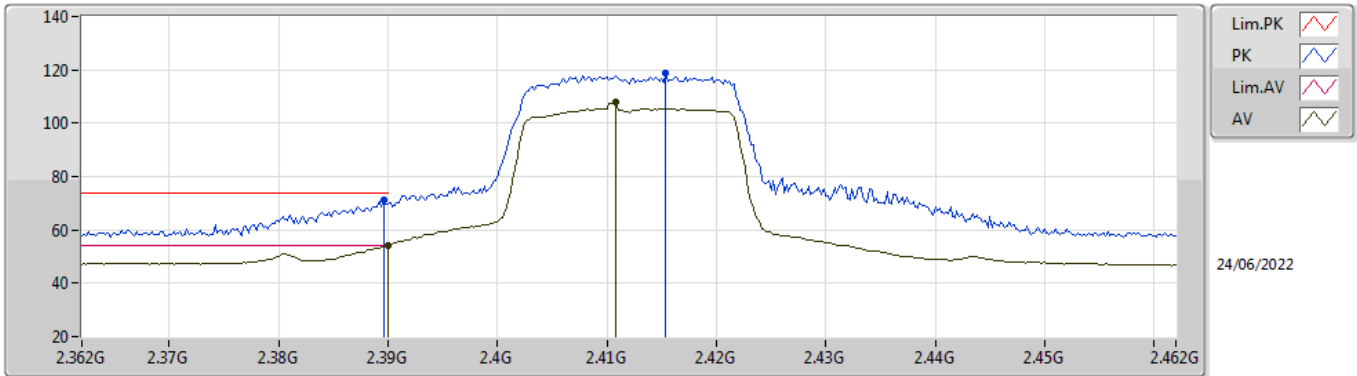


For beamforming  
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	AV	2.39G	53.99	54.00	-0.01	3	Vertical	322.2	1.80	-

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

### 2412MHz\_TX



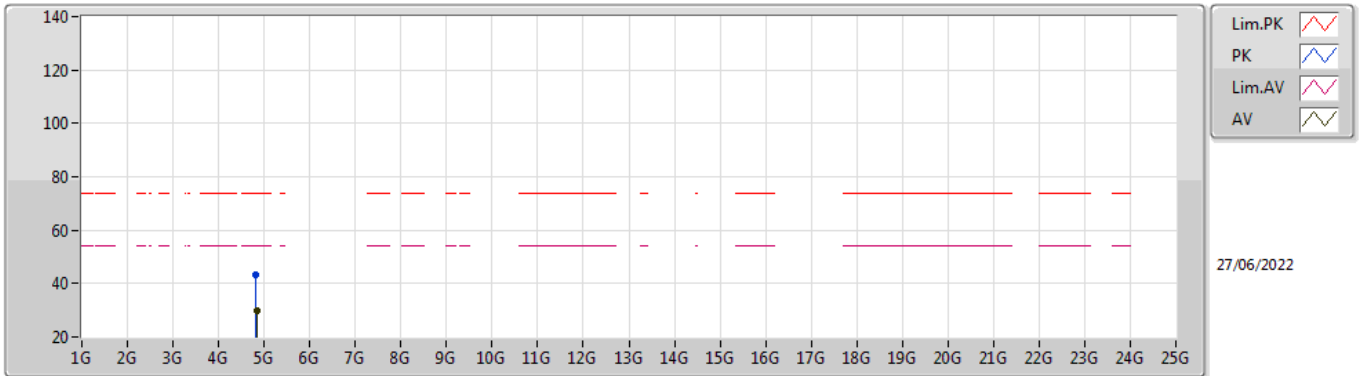
EUT\_Z\_2TX  
Setting 83  
06-F-S-5

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	2.3896G	71.35	74.00	-2.65	39.98	3	Vertical	322.2	1.80	-	27.48	3.89	-
AV	2.39G	53.99	54.00	-0.01	22.62	3	Vertical	322.2	1.80	-	27.48	3.89	-
PK	2.4154G	118.58	Inf	-Inf	87.34	3	Vertical	322.2	1.80	-	27.34	3.90	-
AV	2.4108G	108.03	Inf	-Inf	76.77	3	Vertical	322.2	1.80	-	27.36	3.90	-



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

### 2412MHz\_TX

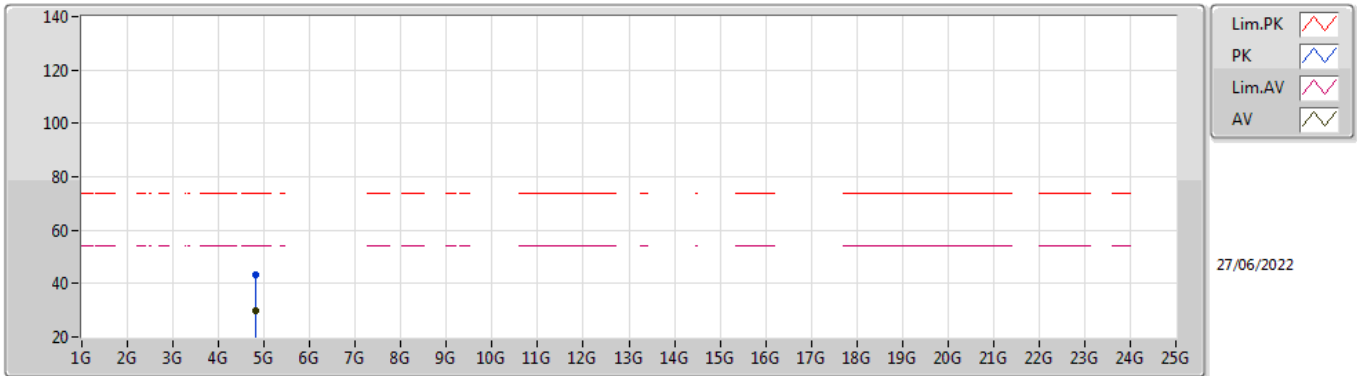


EUT\_Z\_2TX  
Setting 83  
02-B-C-6

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	4.82124G	43.23	74.00	-30.77	37.42	3	Vertical	90	1.22	-	32.93	5.10	32.22
AV	4.8363G	29.93	54.00	-24.07	24.03	3	Vertical	90	1.22	-	33.02	5.10	32.22

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

### 2412MHz\_TX

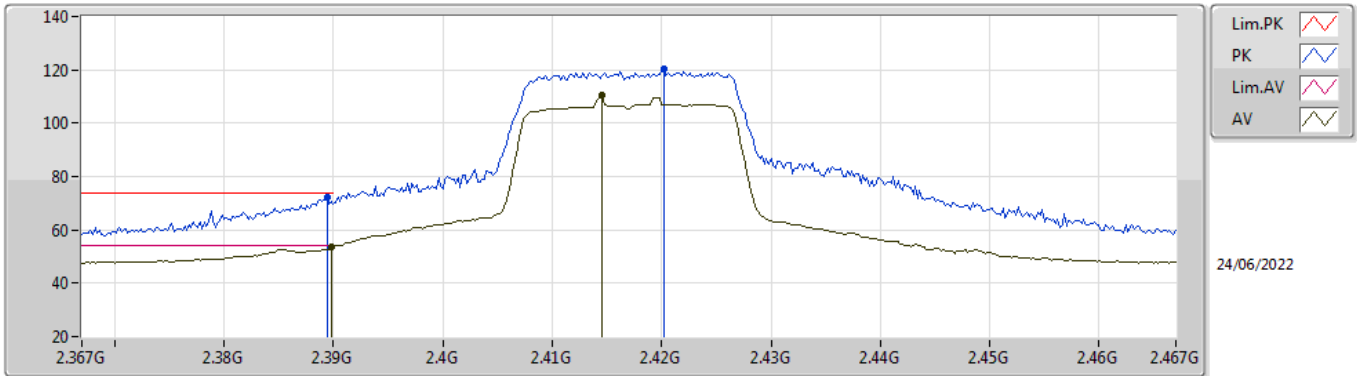


EUT\_Z\_2TX  
Setting 83  
02-B-C-6

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	4.8132G	43.34	74.00	-30.66	37.59	3	Horizontal	218	2.22	-	32.88	5.10	32.23
AV	4.81338G	29.91	54.00	-24.09	24.16	3	Horizontal	218	2.22	-	32.88	5.10	32.23

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

### 2417MHz\_TX

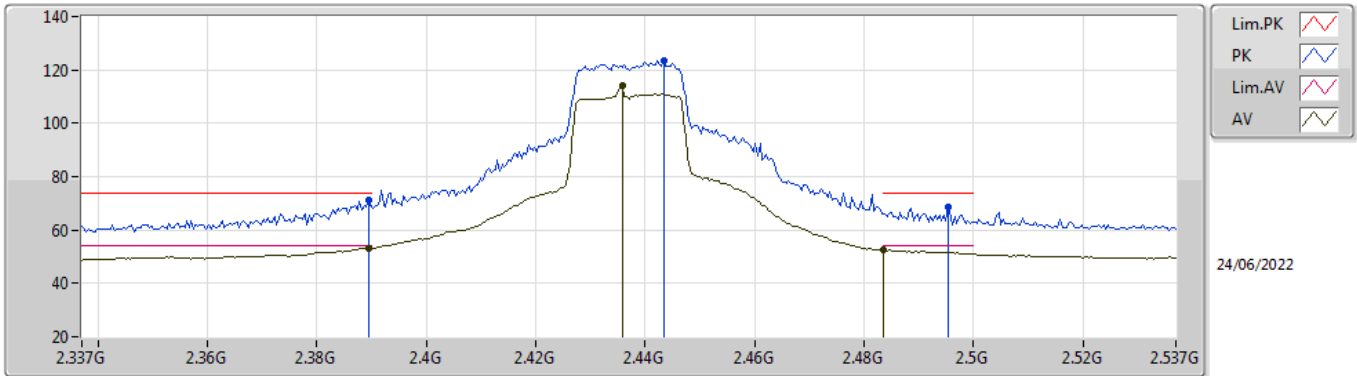


EUT\_Z\_2TX  
Setting 89  
06-F-S-5

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	72.01	74.00	-1.99	40.64	3	Vertical	321.4	2.03	-	27.48	3.89	-
AV	2.3898G	53.60	54.00	-0.40	22.23	3	Vertical	321.4	2.03	-	27.48	3.89	-
PK	2.4202G	120.09	Inf	-Inf	88.87	3	Vertical	321.4	2.03	-	27.32	3.90	-
AV	2.4146G	110.53	Inf	-Inf	79.29	3	Vertical	321.4	2.03	-	27.34	3.90	-

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

### 2437MHz\_TX

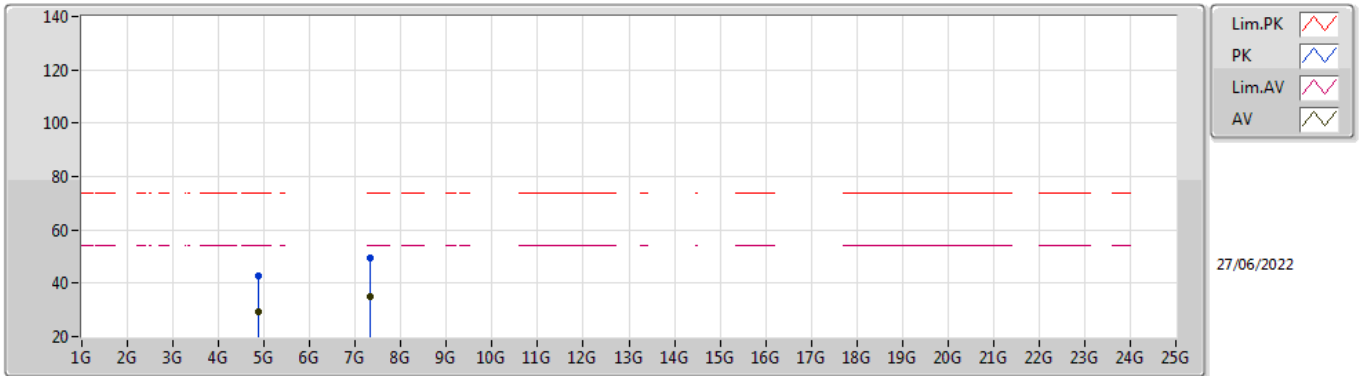


EUT\_Z\_2TX  
Setting 106  
06-F-S-5

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	71.39	74.00	-2.61	40.02	3	Vertical	167.5	1.80	-	27.48	3.89	-
AV	2.3894G	53.21	54.00	-0.79	21.84	3	Vertical	167.5	1.80	-	27.48	3.89	-
PK	2.4434G	123.33	Inf	-Inf	92.19	3	Vertical	167.5	1.80	-	27.23	3.91	-
AV	2.4358G	114.13	Inf	-Inf	82.96	3	Vertical	167.5	1.80	-	27.26	3.91	-
PK	2.4954G	68.60	74.00	-5.40	37.40	3	Vertical	167.5	1.80	-	27.29	3.91	-
AV	2.4835G	52.49	54.00	-1.51	21.31	3	Vertical	167.5	1.80	-	27.27	3.91	-

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

### 2437MHz\_TX

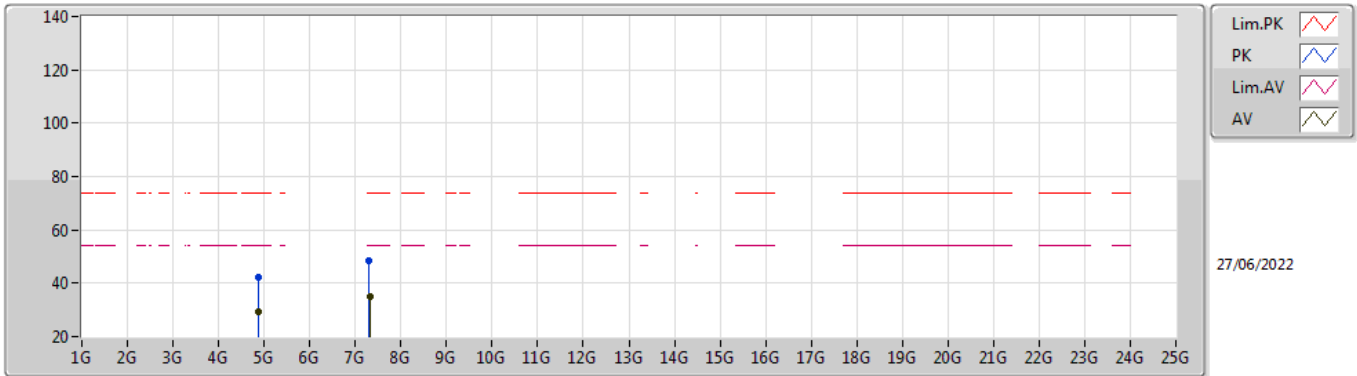


EUT Z\_2TX  
Setting 106  
02-B-C-6

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	4.88702G	42.84	74.00	-31.16	37.17	3	Vertical	330	2.32	-	33.17	4.70	32.20
AV	4.87616G	29.44	54.00	-24.56	23.79	3	Vertical	330	2.32	-	33.15	4.70	32.20
PK	7.32012G	49.30	74.00	-24.70	39.94	3	Vertical	140	1.85	-	36.44	5.76	32.84
AV	7.32432G	35.16	54.00	-18.84	25.79	3	Vertical	140	1.85	-	36.45	5.76	32.84

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

2437MHz\_TX

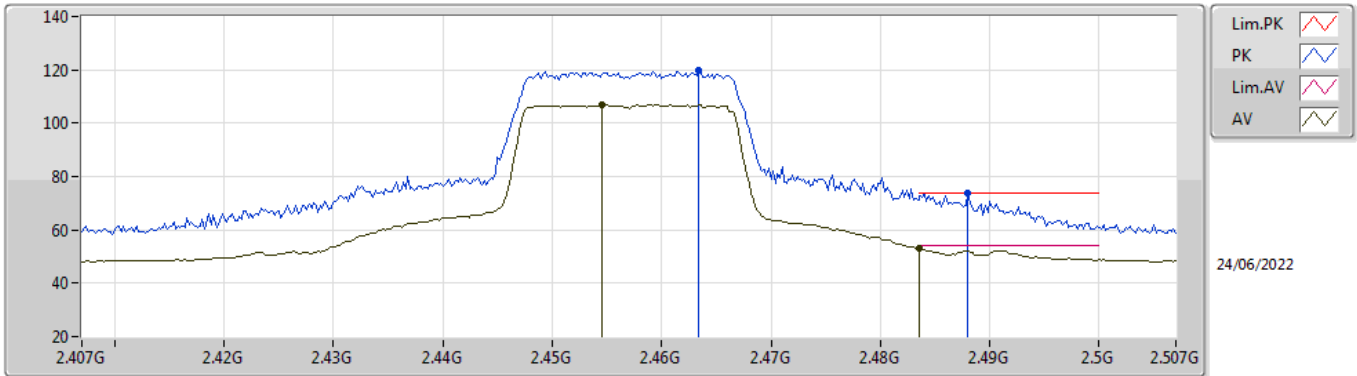


EUT Z\_2TX  
Setting 106  
02-B-C-6

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	4.86794G	42.37	74.00	-31.63	36.74	3	Horizontal	15	2.40	-	33.14	4.70	32.21
AV	4.8668G	29.42	54.00	-24.58	23.80	3	Horizontal	15	2.40	-	33.13	4.70	32.21
PK	7.30938G	48.68	74.00	-25.32	39.33	3	Horizontal	183	1.65	-	36.42	5.75	32.82
AV	7.3233G	35.06	54.00	-18.94	25.69	3	Horizontal	183	1.65	-	36.45	5.76	32.84

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

### 2457MHz\_TX

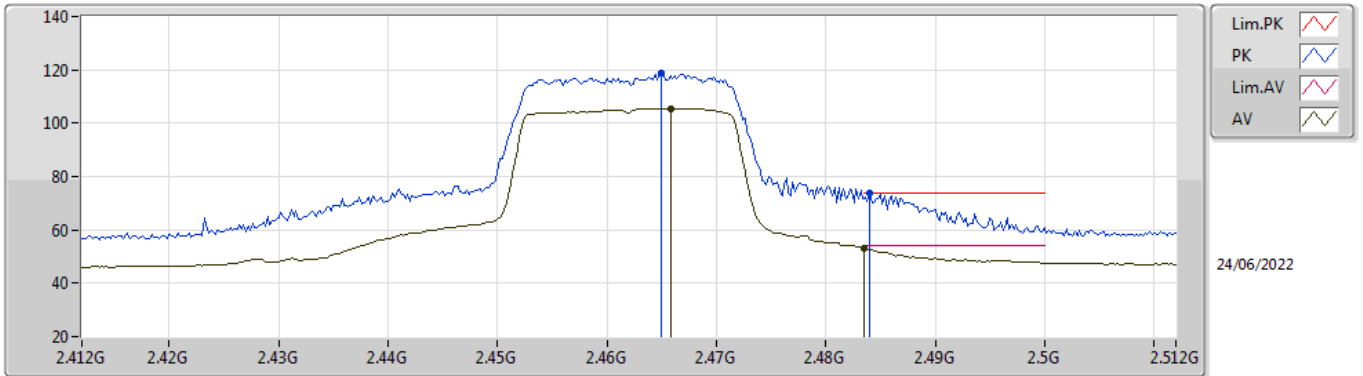


EUT\_Z\_2TX  
Setting 84  
06-F-S-5

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	2.4634G	119.69	Inf	-Inf	88.55	3	Vertical	175	1.79	-	27.23	3.91	-
AV	2.4546G	106.84	Inf	-Inf	75.72	3	Vertical	175	1.79	-	27.21	3.91	-
PK	2.488G	73.90	74.00	-0.10	42.71	3	Vertical	175	1.79	-	27.28	3.91	-
AV	2.4835G	53.01	54.00	-0.99	21.83	3	Vertical	175	1.79	-	27.27	3.91	-

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

2462MHz\_TX



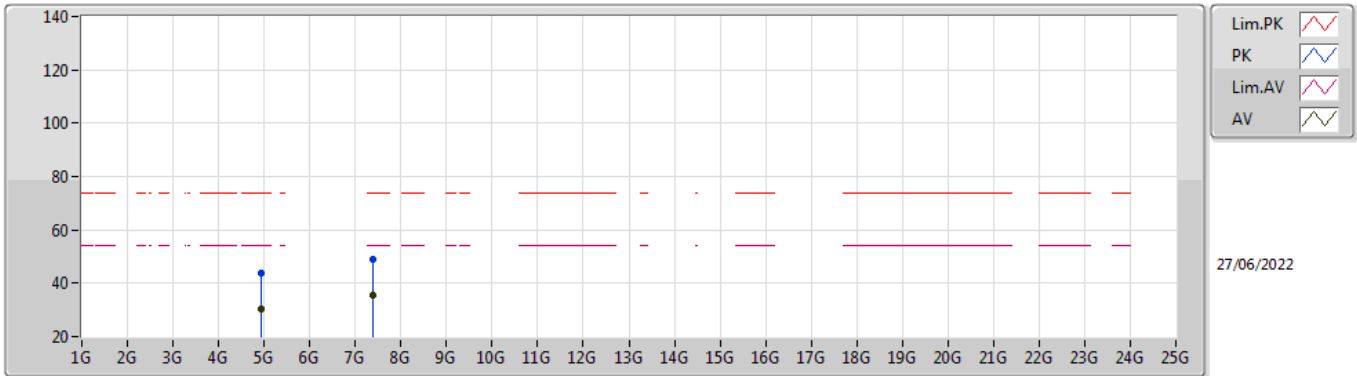
EUT\_Z\_2TX  
Setting 82  
06-F-S-5

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	118.60	Inf	-Inf	87.46	3	Vertical	51.5	1.79	-	27.23	3.91	-
AV	2.4658G	105.58	Inf	-Inf	74.44	3	Vertical	51.5	1.79	-	27.23	3.91	-
PK	2.484G	73.93	74.00	-0.07	42.75	3	Vertical	51.5	1.79	-	27.27	3.91	-
AV	2.4835G	53.18	54.00	-0.82	22.00	3	Vertical	51.5	1.79	-	27.27	3.91	-



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

2462MHz\_TX

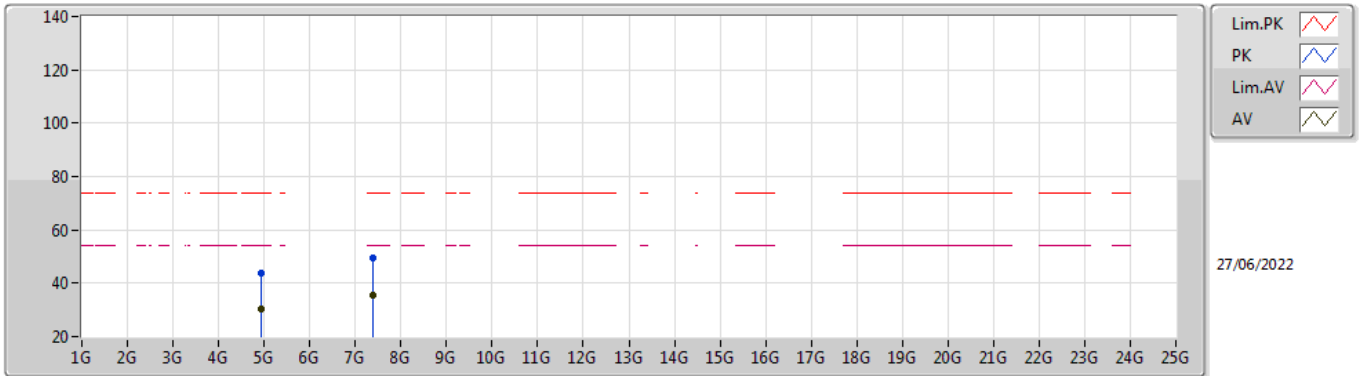


EUT\_Z\_2TX  
Setting 82  
02-B-C-6

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	4.93486G	43.90	74.00	-30.10	37.71	3	Vertical	289	1.32	-	33.27	5.10	32.18
AV	4.9243G	30.36	54.00	-23.64	24.20	3	Vertical	289	1.32	-	33.25	5.10	32.19
PK	7.38108G	49.04	74.00	-24.96	39.29	3	Vertical	21	2.43	-	36.50	6.19	32.94
AV	7.3773G	35.67	54.00	-18.33	25.92	3	Vertical	21	2.43	-	36.50	6.19	32.94

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

### 2462MHz\_TX

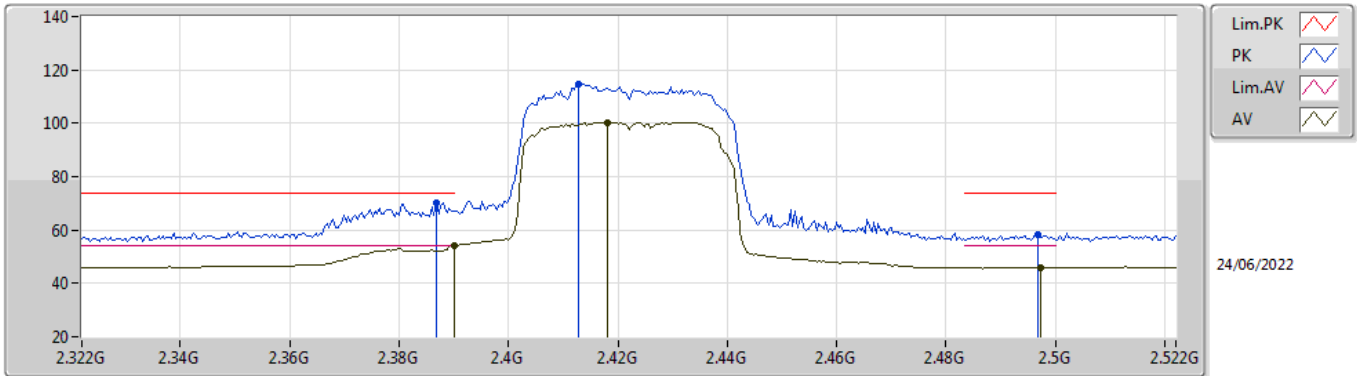


EUT\_Z\_2TX  
Setting 82  
02-B-C-6

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	4.92796G	43.55	74.00	-30.45	37.38	3	Horizontal	338	2.79	-	33.26	5.10	32.19
AV	4.93582G	30.33	54.00	-23.67	24.14	3	Horizontal	338	2.79	-	33.27	5.10	32.18
PK	7.39098G	49.56	74.00	-24.44	39.82	3	Horizontal	343	2.81	-	36.50	6.20	32.96
AV	7.38012G	35.64	54.00	-18.36	25.89	3	Horizontal	343	2.81	-	36.50	6.19	32.94

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

### 2422MHz\_TX

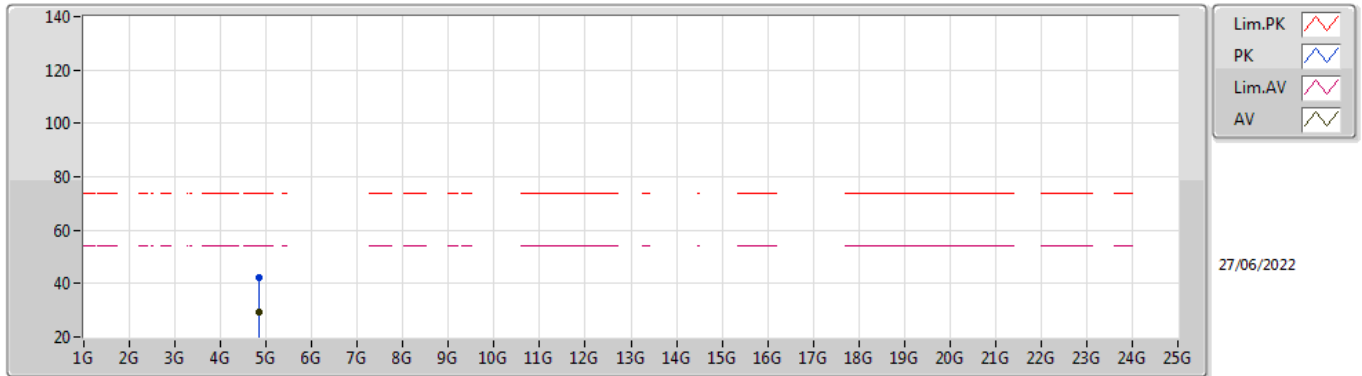


EUT\_Z\_2TX  
Setting 75  
06-F-S-5

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	2.3868G	70.15	74.00	-3.85	38.76	3	Vertical	304.9	2.70	-	27.51	3.88	-
AV	2.39G	53.90	54.00	-0.10	22.53	3	Vertical	304.9	2.70	-	27.48	3.89	-
PK	2.4128G	114.84	Inf	-Inf	83.59	3	Vertical	304.9	2.70	-	27.35	3.90	-
AV	2.418G	100.41	Inf	-Inf	69.18	3	Vertical	304.9	2.70	-	27.33	3.90	-
PK	2.4968G	58.48	74.00	-15.52	27.28	3	Vertical	304.9	2.70	-	27.29	3.91	-
AV	2.4972G	46.08	54.00	-7.92	14.88	3	Vertical	304.9	2.70	-	27.29	3.91	-

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

#### 2422MHz\_TX

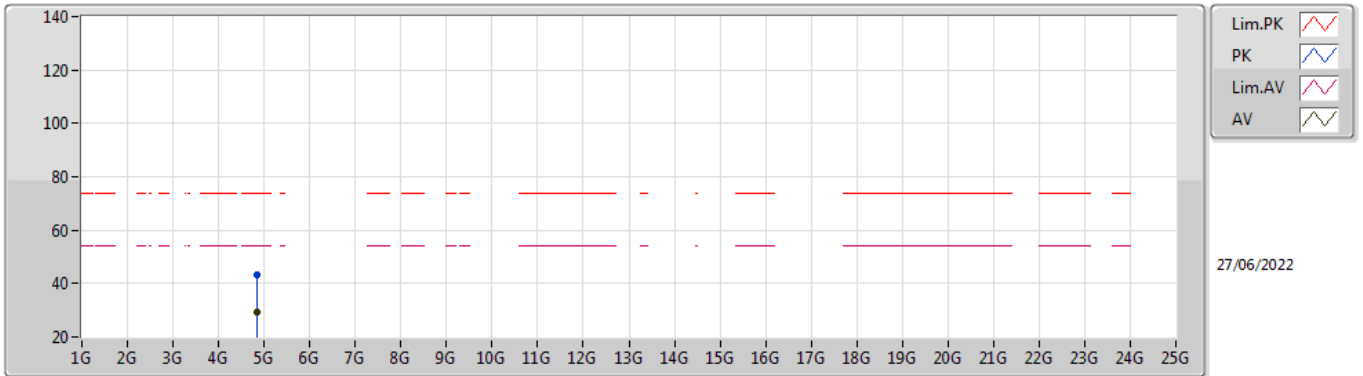


EUT\_Z\_2TX  
Setting 75  
02-B-C-6

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	4.84274G	42.36	74.00	-31.64	36.82	3	Vertical	181	2.22	-	33.06	4.70	32.22
AV	4.8341G	29.45	54.00	-24.55	23.97	3	Vertical	181	2.22	-	33.00	4.70	32.22

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

### 2422MHz\_TX

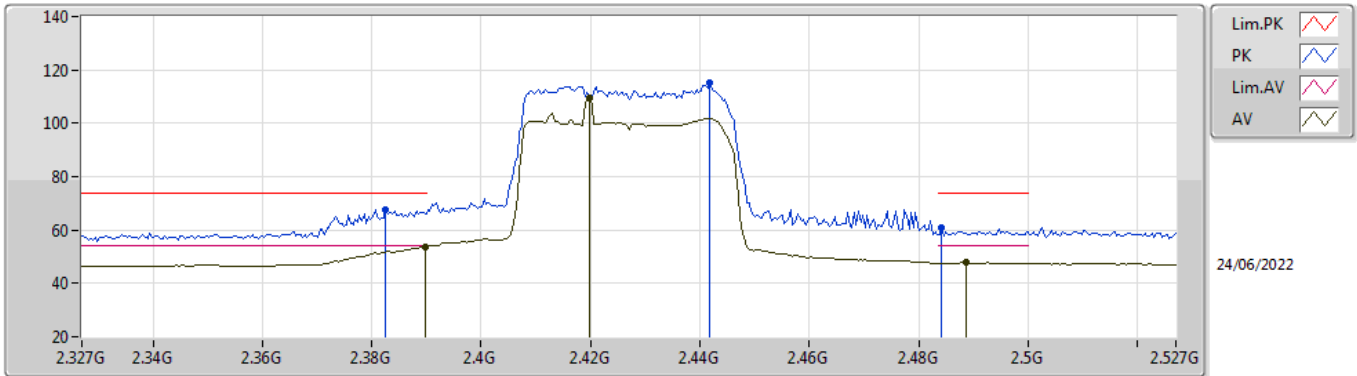


EUT Z\_2TX  
Setting 75  
02-B-C-6

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	4.83164G	43.51	74.00	-30.49	38.04	3	Horizontal	157	2.50	-	32.99	4.70	32.22
AV	4.83476G	29.37	54.00	-24.63	23.88	3	Horizontal	157	2.50	-	33.01	4.70	32.22

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

### 2427MHz\_TX

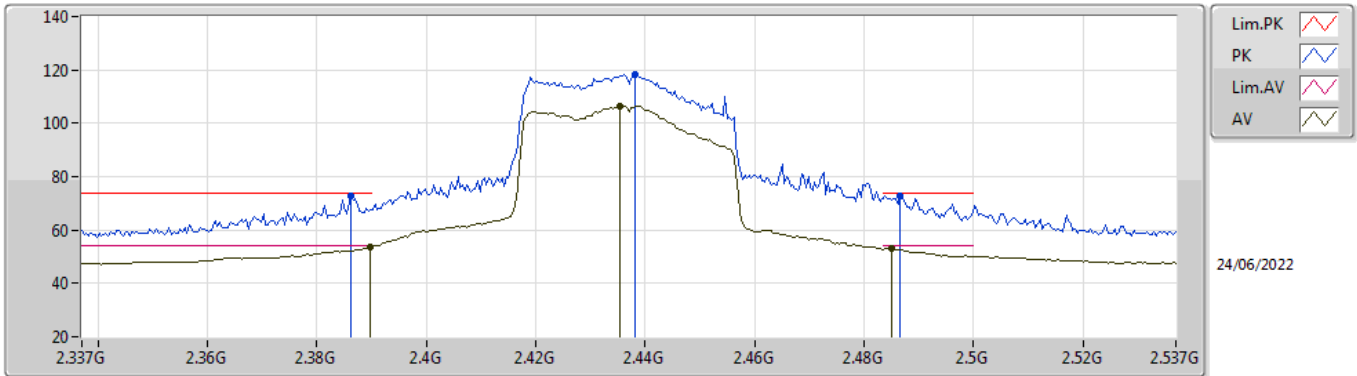


EUT\_Z\_2TX  
Setting 76  
06-F-S-5

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	2.3826G	67.44	74.00	-6.56	36.02	3	Vertical	155.2	1.80	-	27.54	3.88	-
AV	2.3898G	53.52	54.00	-0.48	22.15	3	Vertical	155.2	1.80	-	27.48	3.89	-
PK	2.4418G	115.27	Inf	-Inf	84.13	3	Vertical	155.2	1.80	-	27.23	3.91	-
AV	2.4198G	109.47	Inf	-Inf	78.25	3	Vertical	155.2	1.80	-	27.32	3.90	-
PK	2.4842G	60.63	74.00	-13.37	29.45	3	Vertical	155.2	1.80	-	27.27	3.91	-
AV	2.4886G	47.79	54.00	-6.21	16.60	3	Vertical	155.2	1.80	-	27.28	3.91	-

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

### 2437MHz\_TX

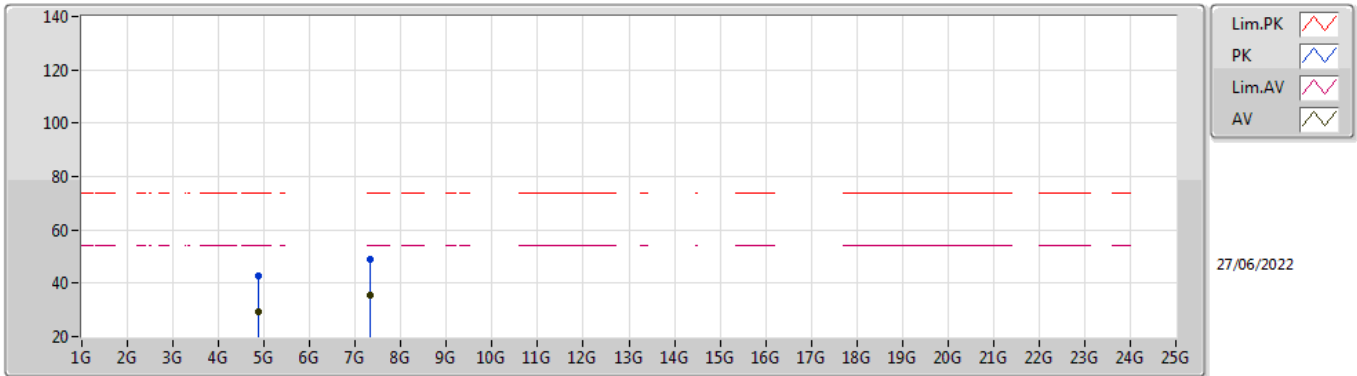


EUT\_Z\_2TX  
Setting 89  
06-F-S-5

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	72.64	74.00	-1.36	41.25	3	Vertical	278.3	1.80	-	27.51	3.88	-
AV	2.3898G	53.74	54.00	-0.26	22.37	3	Vertical	278.3	1.80	-	27.48	3.89	-
PK	2.4382G	118.45	Inf	-Inf	87.29	3	Vertical	278.3	1.80	-	27.25	3.91	-
AV	2.4354G	106.29	Inf	-Inf	75.12	3	Vertical	278.3	1.80	-	27.26	3.91	-
PK	2.4866G	72.70	74.00	-1.30	41.52	3	Vertical	278.3	1.80	-	27.27	3.91	-
AV	2.485G	53.01	54.00	-0.99	21.83	3	Vertical	278.3	1.80	-	27.27	3.91	-

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

2437MHz\_TX



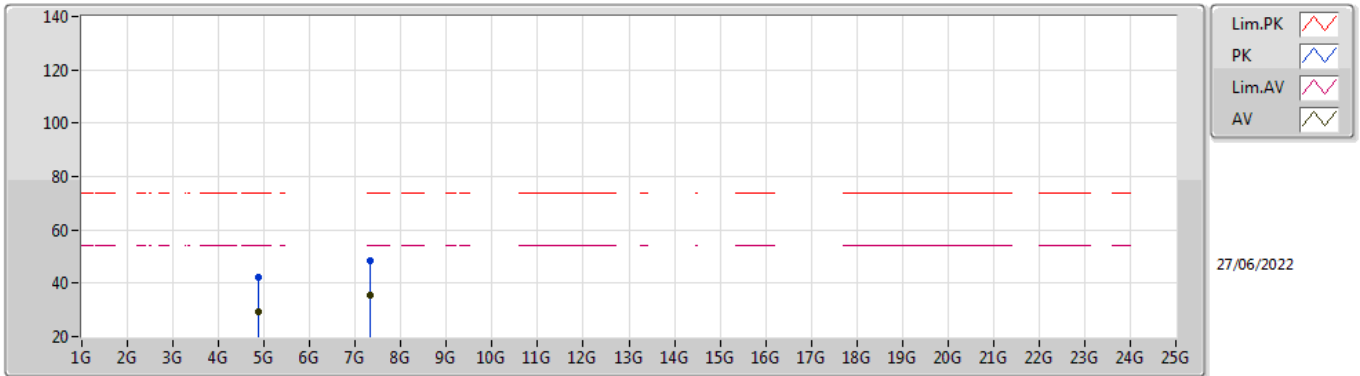
EUT\_Z\_2TX  
Setting 89  
02-B-C-6

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	4.88546G	42.96	74.00	-31.04	37.29	3	Vertical	323	2.74	-	33.17	4.70	32.20
AV	4.8671G	29.25	54.00	-24.75	23.63	3	Vertical	323	2.74	-	33.13	4.70	32.21
PK	7.32498G	49.18	74.00	-24.82	39.82	3	Vertical	224	1.21	-	36.45	5.76	32.85
AV	7.32462G	35.43	54.00	-18.57	26.06	3	Vertical	224	1.21	-	36.45	5.76	32.84



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

### 2437MHz\_TX

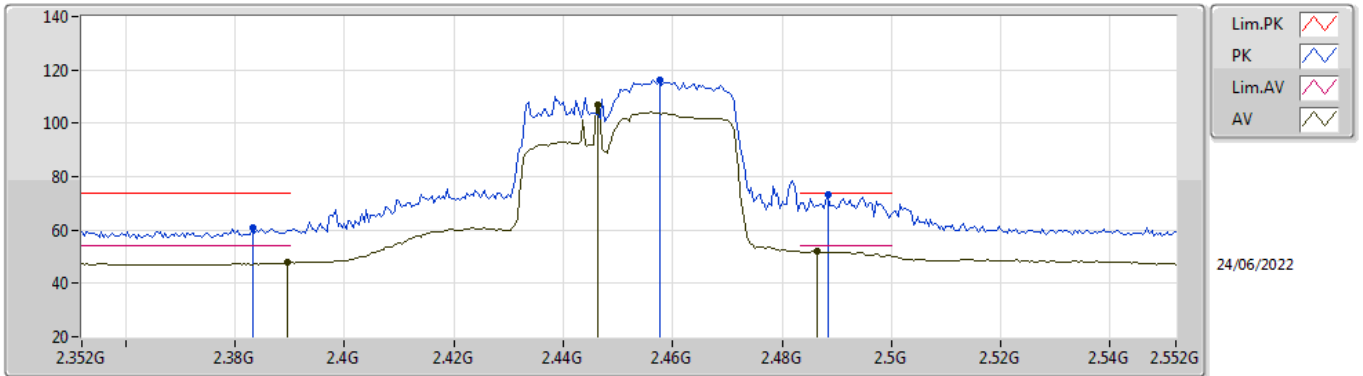


EUT\_Z\_2TX  
Setting 89  
02-B-C-6

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	4.86986G	42.42	74.00	-31.58	36.79	3	Horizontal	67	1.34	-	33.14	4.70	32.21
AV	4.87466G	29.29	54.00	-24.71	23.65	3	Horizontal	67	1.34	-	33.15	4.70	32.21
PK	7.31502G	48.54	74.00	-25.46	39.18	3	Horizontal	339	2.61	-	36.43	5.76	32.83
AV	7.31958G	35.41	54.00	-18.59	26.05	3	Horizontal	339	2.61	-	36.44	5.76	32.84

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

### 2452MHz\_TX

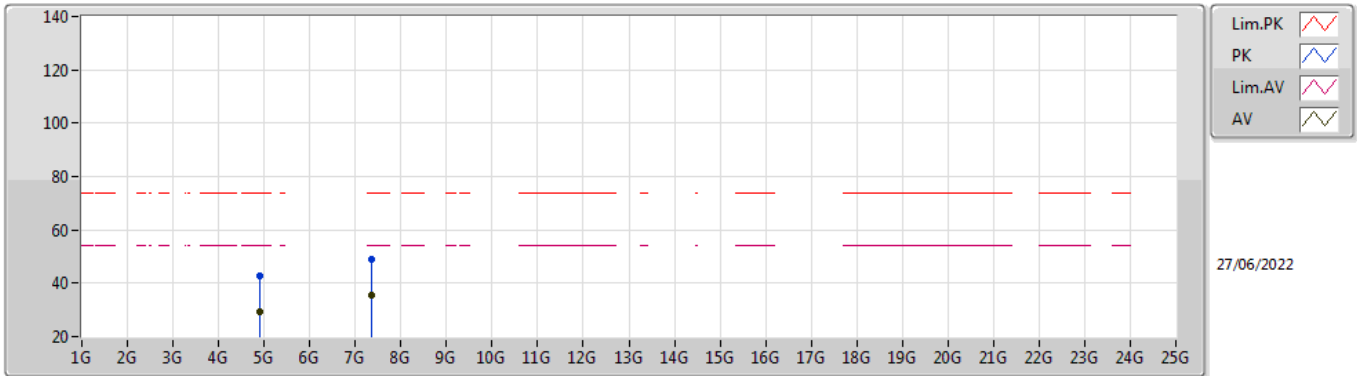


EUT\_Z\_2TX  
Setting 83  
06-F-S-5

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	2.3832G	60.64	74.00	-13.36	29.23	3	Vertical	359.7	1.89	-	27.53	3.88	-
AV	2.3896G	47.89	54.00	-6.11	16.52	3	Vertical	359.7	1.89	-	27.48	3.89	-
PK	2.4576G	116.36	Inf	-Inf	85.23	3	Vertical	359.7	1.89	-	27.22	3.91	-
AV	2.4464G	106.65	Inf	-Inf	75.53	3	Vertical	359.7	1.89	-	27.21	3.91	-
PK	2.4884G	73.04	74.00	-0.96	41.85	3	Vertical	359.7	1.89	-	27.28	3.91	-
AV	2.4864G	52.07	54.00	-1.93	20.89	3	Vertical	359.7	1.89	-	27.27	3.91	-

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

2452MHz\_TX

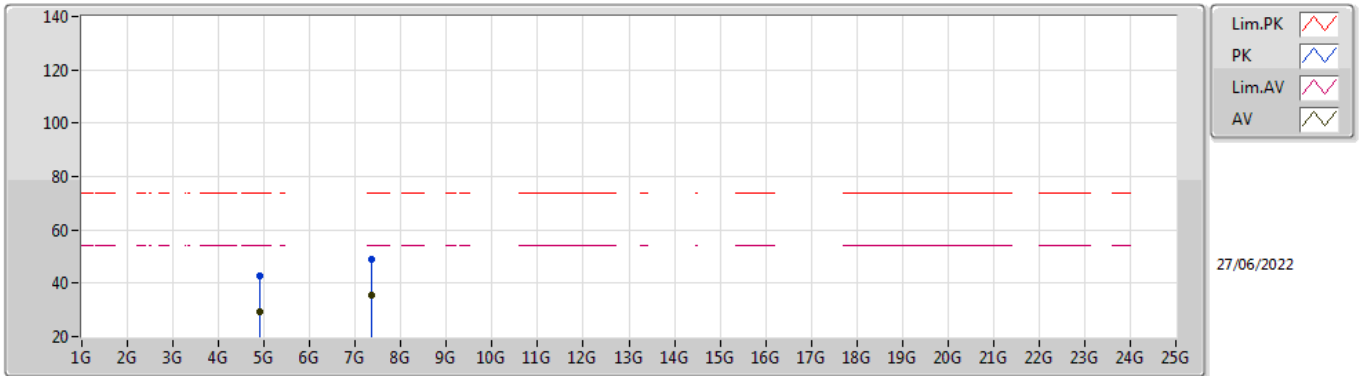


EUT\_Z\_2TX  
Setting 83  
02-B-C-6

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	4.90574G	42.60	74.00	-31.40	36.88	3	Vertical	121	2.42	-	33.21	4.70	32.19
AV	4.91654G	29.52	54.00	-24.48	23.78	3	Vertical	121	2.42	-	33.23	4.70	32.19
PK	7.34628G	49.07	74.00	-24.93	39.69	3	Vertical	189	2.15	-	36.49	5.77	32.88
AV	7.35762G	35.67	54.00	-18.33	26.29	3	Vertical	189	2.15	-	36.50	5.78	32.90

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

### 2452MHz\_TX



EUT\_Z\_2TX  
Setting 83  
02-B-C-6

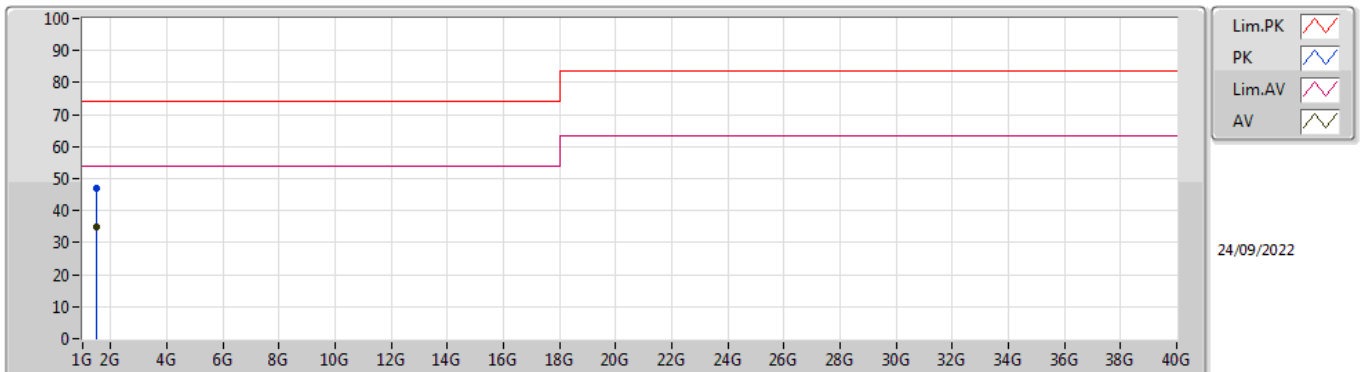
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9094G	42.71	74.00	-31.29	36.98	3	Horizontal	80	1.37	-	33.22	4.70	32.19
AV	4.91126G	29.49	54.00	-24.51	23.76	3	Horizontal	80	1.37	-	33.22	4.70	32.19
PK	7.35318G	48.97	74.00	-25.03	39.58	3	Horizontal	50	1.53	-	36.50	5.78	32.89
AV	7.36854G	35.55	54.00	-18.45	26.19	3	Horizontal	50	1.53	-	36.50	5.78	32.92



**Summary**

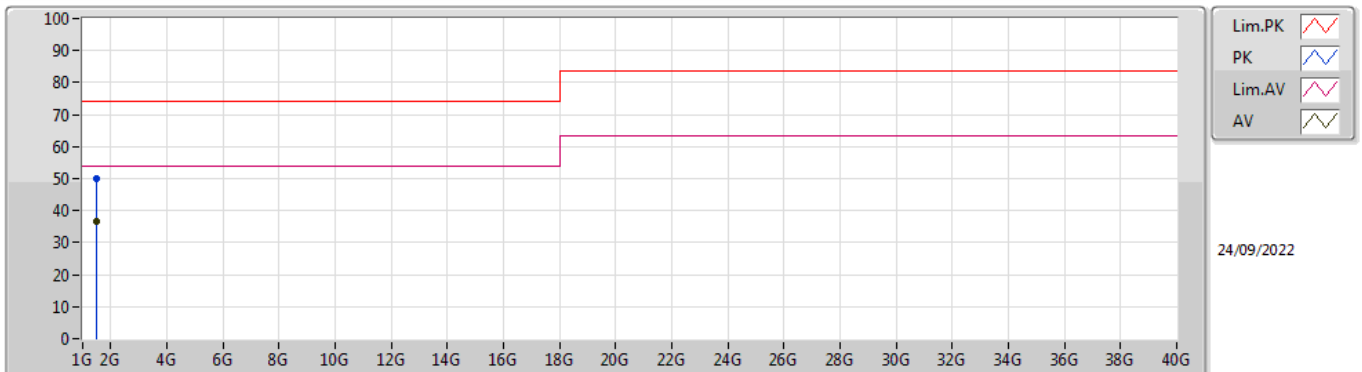
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.49999G	36.73	54.00	-17.27	Horizontal

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.49986G	47.10	74.00	-26.90	-7.03	3	Vertical	276	1.46	-	54.13	25.60	3.80	36.43
AV	1.50002G	35.03	54.00	-18.97	-7.03	3	Vertical	276	1.46	"Worst"	42.06	25.60	3.80	36.43

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	49.89	74.00	-24.11	-7.03	3	Horizontal	68	1.60	-	56.92	25.60	3.80	36.43
AV	1.49999G	36.73	54.00	-17.27	-7.03	3	Horizontal	68	1.60	"Worst"	43.76	25.60	3.80	36.43