FCC RADIO TEST REPORT

FCC ID	:	K7S-03689
Equipment	:	AX6600 Tri-band Mesh Router
Brand Name	:	LINKSYS
Model Name	:	MR7500, MR75WH
Applicant	:	Belkin International, Inc. 12045 East Waterfront Dr. Playa Vista CA United States Zip coode: 90094
Standard	:	47 CFR FCC Part 15.247

The product was received on Dec. 07, 2020, and testing was started from Dec. 07, 2020 and completed on Feb. 05, 2021. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR0D0129AA	01	Initial issue of report	Feb. 26, 2021

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:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen
Report Producer: Sandy Chuang

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

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

1.1.2 Antenna Information

Ant.	Port	Brand Holder	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	Signal Plus Technology Co., Ltd	6239F00003	Dipole	I-PEX	Note 1
2	2	Signal Plus Technology Co., Ltd	6239F00004	Dipole	I-PEX	
3	1	Signal Plus Technology Co., Ltd	6239F00001	Dipole	I-PEX	
4	2	Signal Plus Technology Co., Ltd	6239F00001	Dipole	I-PEX	
5	3	Signal Plus Technology Co., Ltd	6239F00002	Dipole	I-PEX	
6	4	Signal Plus Technology Co., Ltd	6239F00002	Dipole	I-PEX	
7	1	Signal Plus Technology Co., Ltd	6239F00005	PIFA	N/A	

Note 1:

Ant.	Port	Gain (dBi)							
		WLAN	WLAN 5GHz		WLAN 6GHz				Bluetooth
		2.4GHz	UNII 1	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8	
1	1	1.61	2.12	2.08	-	-	-	-	-
2	2	1.65	2.12	2.08	-	-	-	-	-
3	1	-	-	-	2.75	2.83	2.83	2.98	-
4	2	-	-	-	1.72	2.15	2.15	2.37	-
5	3	-	-	-	2.02	2.21	2.21	2.55	-
6	4	-	-	-	2.42	2.54	2.54	2.73	-
7	1	-	-	-	-	-	-	-	4

Note 2: The above information was declared by manufacturer.

<For WLAN 2.4GHz >

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For WLAN 5GHz Band UNII 1/UNII 3>

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For WLAN 6GHz Band UNII 5~UNII 8>

For IEEE 802.11ax mode (4TX/4RX)

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

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

<For Bluetooth> (1TX/1RX)

Only Port 1 can be used as transmitting/receiving.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.672	1.73	673.077u	3k
802.11g	0.931	0.31	1.987m	1k
802.11ax HEW20-BF	0.917	0.38	1.779m	1k
802.11ax HEW40-BF	0.95	0.22	1.779m	1k

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz, n/ac/ax in 5GHz UNII 1/UNII 3 and ax in 6GHz UNII 5~UNII 8.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	**<Non-beamforming mode>** QSPR V5.0-00188 **<beamforming mode>**DOC V6.1.7601、Lantest v2.0.0.2			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Model No.	Description
MR7500, MR75WH	All the model names are identical, the difference model names served as marketing strategy.

Note 1: Model Name: MR7500 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.2 Applicable Standards

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

- 47 CFR FCC Part 15
- 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			
☐	HWA YA	ADD :	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)
		TEL :	886-3-327-3456 FAX : 886-3-327-0973
☒	JHUBEI	ADD :	No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)
		TEL :	886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Jeff Wu	24.1-25.9 / 55-56	Dec. 25, 2020~ Jan. 26, 2021
Radiated (Above 1GHz)	03CH01-CB	Bruce Yang	21.5-22.5 / 54-57	Dec. 07, 2020~ Feb. 05, 2021
	03CH02-CB	Bruce Yang	20.4-21.4 / 55-57	
Radiated (Below 1GHz: Mode 1~Mode 5)	03CH05-CB	Bruce Yang	21.1-22.3 / 56-58	Dec. 07, 2020~ Feb. 05, 2021
Radiated (Below 1GHz: Mode 6)	03CH03-CB	Bruce Yang	22.3-23.3 / 56-58	Dec. 07, 2020~ Feb. 05, 2021
Radiated (Co-location)	03CH01-CB	Bruce Yang	21.1-22.1 / 55-57	Dec. 07, 2020~ Feb. 05, 2021
AC Conduction	CO01-CB	Peter Wu	22~23 / 62~64	Jan. 28, 2021

Test site Designation No. TW0006 with FCC.
Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.9 dB	Confidence levels of 95%
Conducted Emission	2.8 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.4%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	25.5
2437MHz	27
2462MHz	25
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	23.5
2437MHz	24.5
2462MHz	22.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	25
2437MHz	27
2457MHz	25
2462MHz	23
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	23
2437MHz	25
2447MHz	21
2452MHz	21

Note:
- The EUT supports non-beamforming and beamforming modes, after evaluating, the beamforming mode has been evaluated to be the worst case, so it was selected to test.
- Evaluated HEW20/HEW40 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT with Adapter 1
2	EUT with Adapter 2
3	EUT with 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	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
The EUT was performed at Y axis and Z axis position for Radiated measurement<Above 1GHz>, and the worst case was found at Z axis position for 2.4GHz、5GHz UNII 1/UNII 3、Bluetooth and Y axis position for 6GHz UNII 5~UNII 8.	
1	EUT + Bluetooth with Adapter 1 in Z axis
2	EUT + Bluetooth with Adapter 2 in Z axis
3	EUT + Bluetooth with Adapter 3 in Z axis
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 ~ 6 will follow this same test mode.	
4	EUT + WLAN 2.4GHz with Adapter 1 in Z axis
5	EUT + WLAN 5GHz UNII 1/UNII 3 with Adapter 1 in Z axis
6	EUT + WLAN 6GHz UNII 5~UNII 8 with Adapter 1 in Y axis
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at Y axis and Z axis position. The worst case was found at Z axis, thus the measurement will follow this same test configuration.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
The EUT can be placed in Y axis and Z axis. EUT Z axis has been evaluated to be the worst case at Emissions in Radiated measurement <Above 1GHz> ; thus, the measurement will follow this same test configuration.	
1	EUT in Z axis + WLAN 2.4GHz + WLAN 5GHz UNII 1/UNII 3
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz UNII 1/UNII 3 + WLAN 6GHz UNII 5~UNII 8 + Bluetooth
Refer to Sporton Test Report No.: FA0D0129 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

<Non-beamforming mode>

The EUT was programmed to be in continuously transmitting mode.

<beamforming mode>

During the test, the following programs under WIN 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 RX Device and transmit duty cycle no less than 98%.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	**Brand Name**	**Model Name**	**Rating**
Adapter 1	KTEC	KSA-36W-120300HU	Input: 100-240V~50/60Hz 1.0A Output: 12.0V, 3.0A
Adapter 2	APD	WA-36N12FU	Input: 100-240V~, 50-60Hz 0.9A Max. Output: 12V, 3A
Adapter 3 (Interchangeable)	KTEC	KSA-36W-120300D5	Input: 100-240V~50/60Hz 1.0A Output: 12.0V, 3.0A, 36.0W
Other			
Plug*1 (Use for Adapter 3)			
RJ-45 cable*1: Non-Shielded, 0.9m			

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	WAN PC	DELL	T3400	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	Apple	A1278	N/A
E	Smart phone	Samsung	Galaxy J2	N/A
F	WiFi 6E Client	LINKSYS	Divo	N/A
G	WiFi 6E Client NB	DELL	E6430	N/A
H	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	E4300	N/A

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

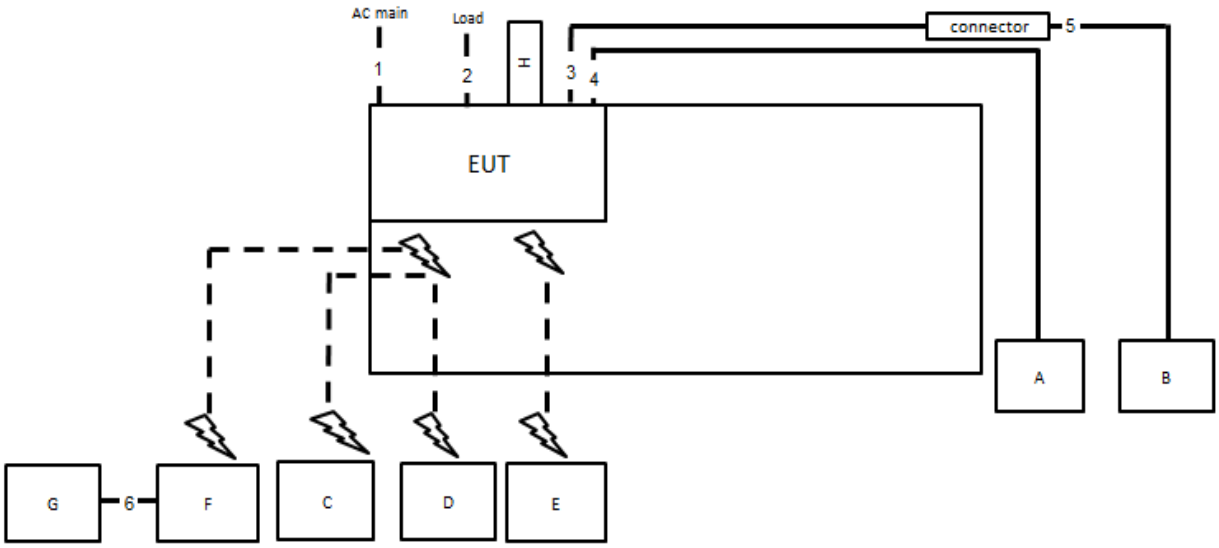
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A

<beamforming mode>

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	RX Device	Cybertan	DIVO	N/A

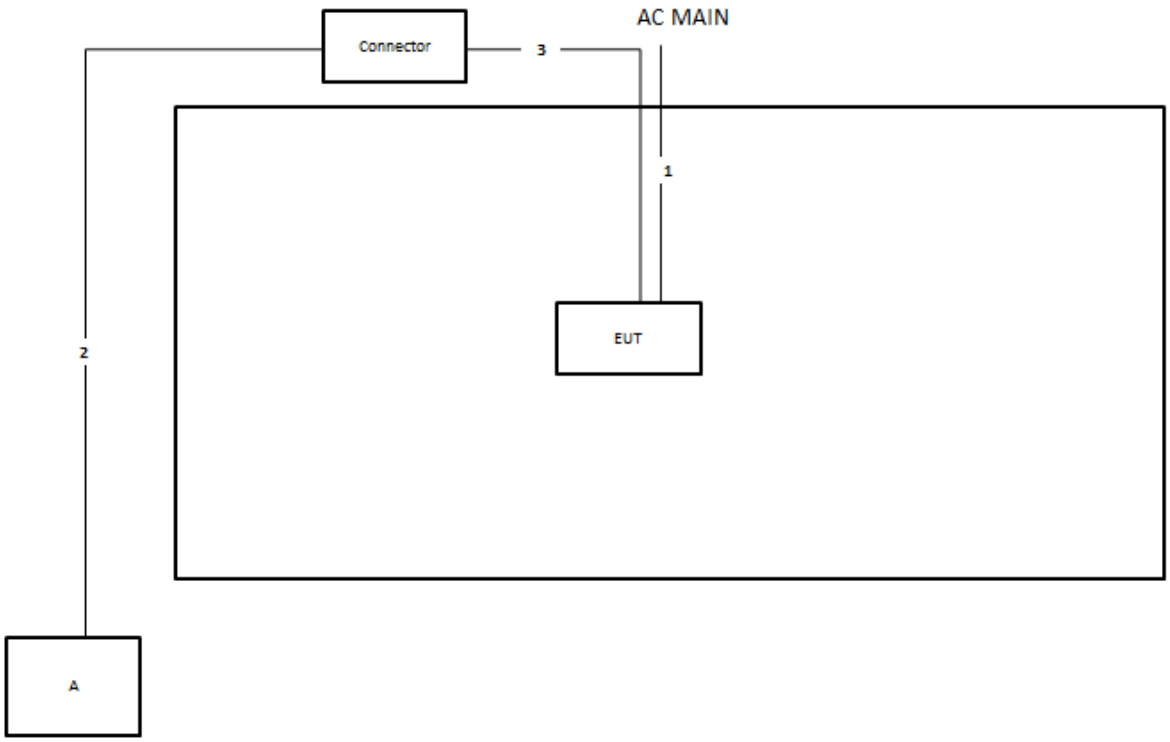
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



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

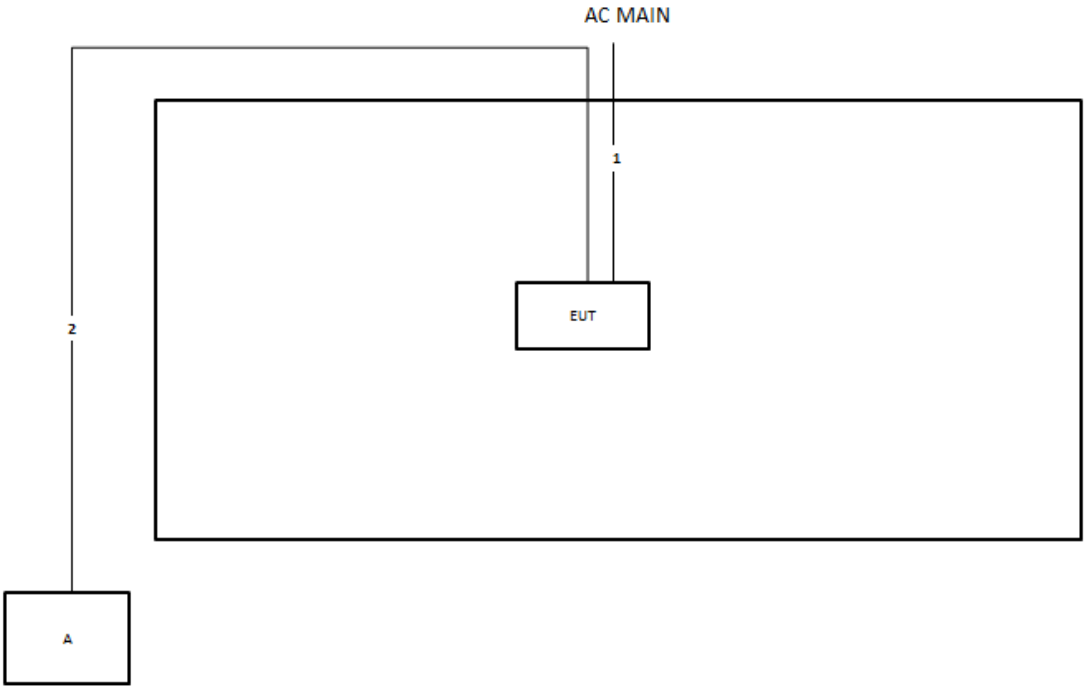
Test Setup Diagram - Radiated Test < 1GHz



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

Test Setup Diagram - Radiated Test > 1GHz

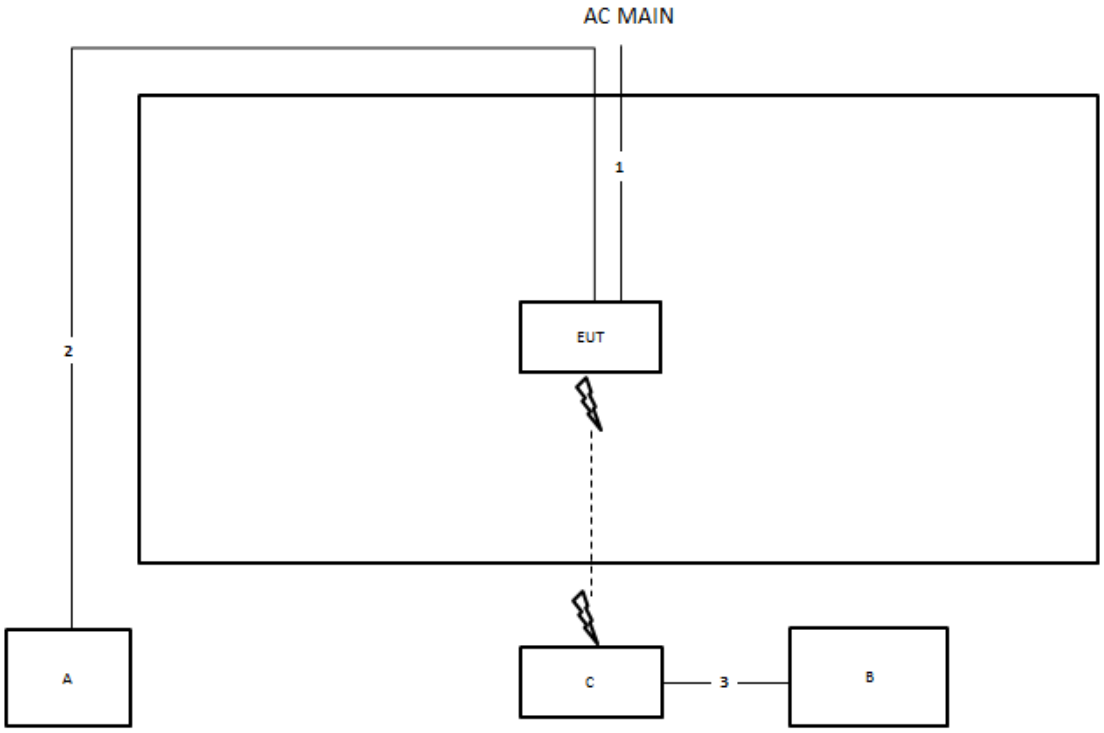
<Non-beamforming mode>



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

Test Setup Diagram - Radiated Test > 1GHz

<beamforming mode>



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

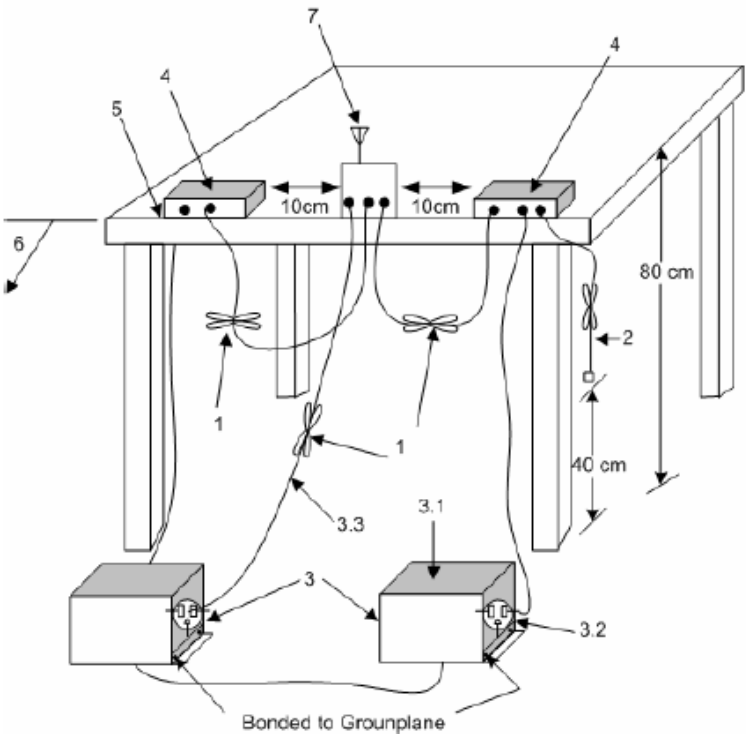
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup

AC Power-line Conducted Emissions



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

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

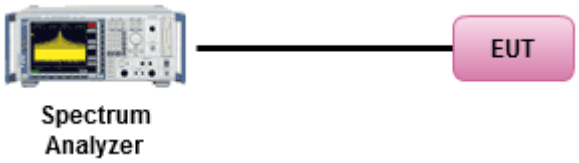
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

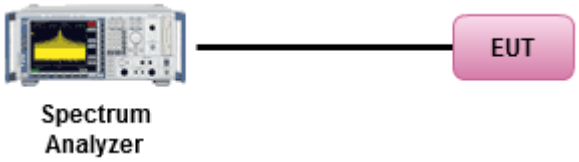
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

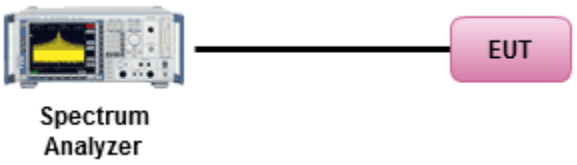
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands


3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

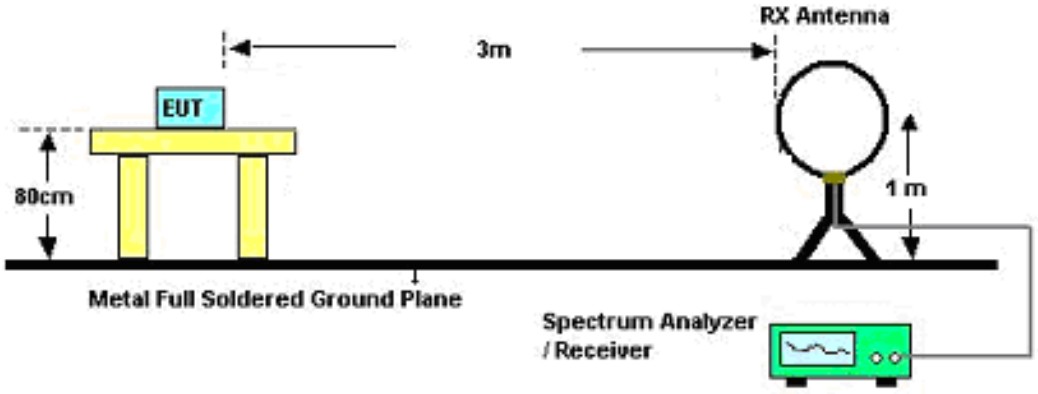
3.6.3 Test Procedures

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

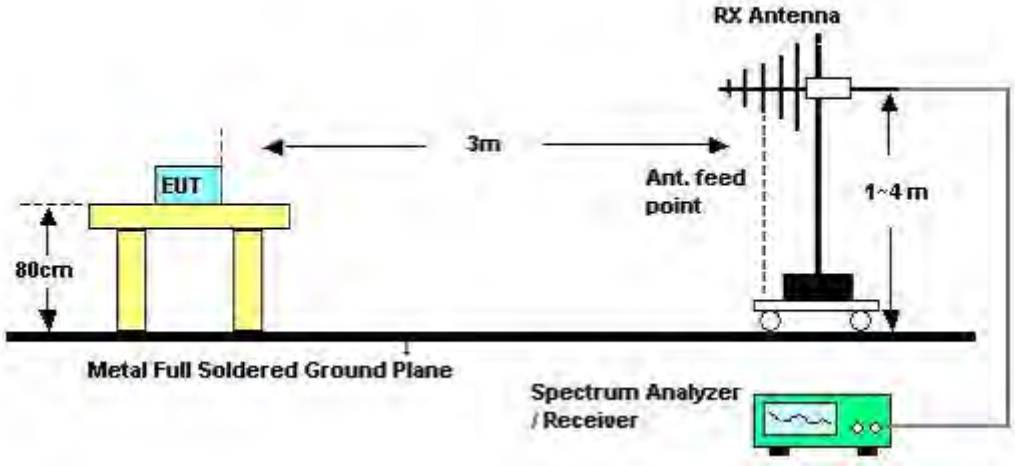
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

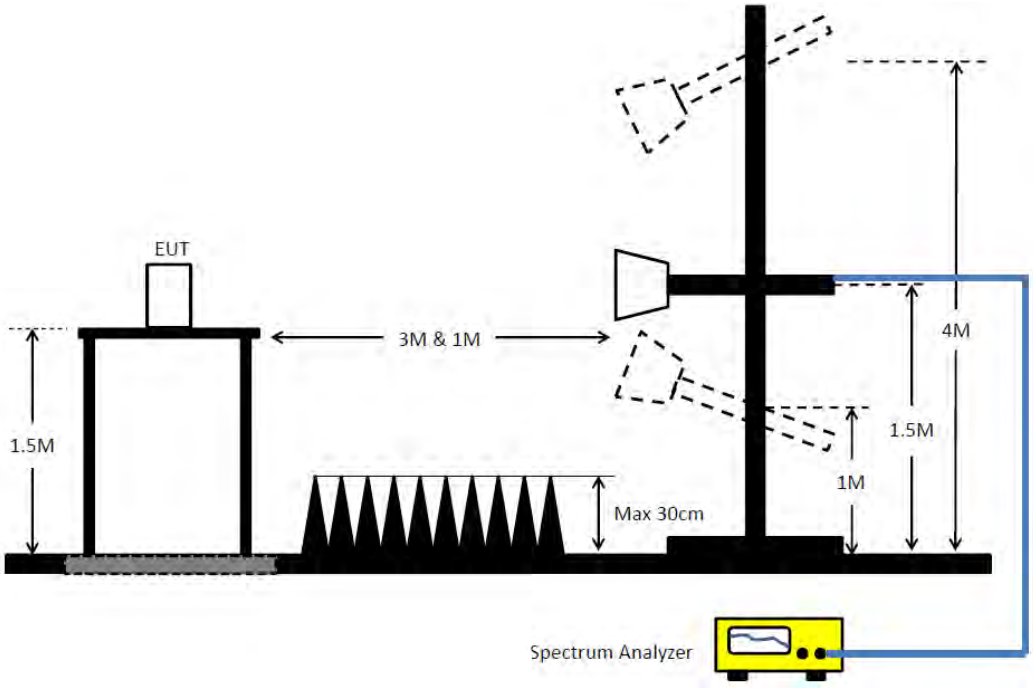
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 Measurement Results Calculation

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 31, 2020	Jan. 30, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 29, 2020	May 28, 2021	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2020	Nov. 05, 2021	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2020	Jan. 07, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 07, 2021	Jan. 06, 2022	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Apr. 16, 2020	Apr. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 28, 2020	Mar. 27, 2021	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 21, 2020	Apr. 20, 2021	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH02-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 13, 2020	Jul. 12, 2021	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 15, 2020	Oct. 14, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 10, 2020	Aug. 09, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 27, 2020	Mar. 26, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 29, 2020	Jan. 28, 2021	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 27, 2021	Jan. 26, 2022	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 28, 2020	Feb. 27, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 15, 2020	Jan. 14, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 11, 2021	Jan. 10, 2022	Radiation (03CH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 05, 2020	May 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

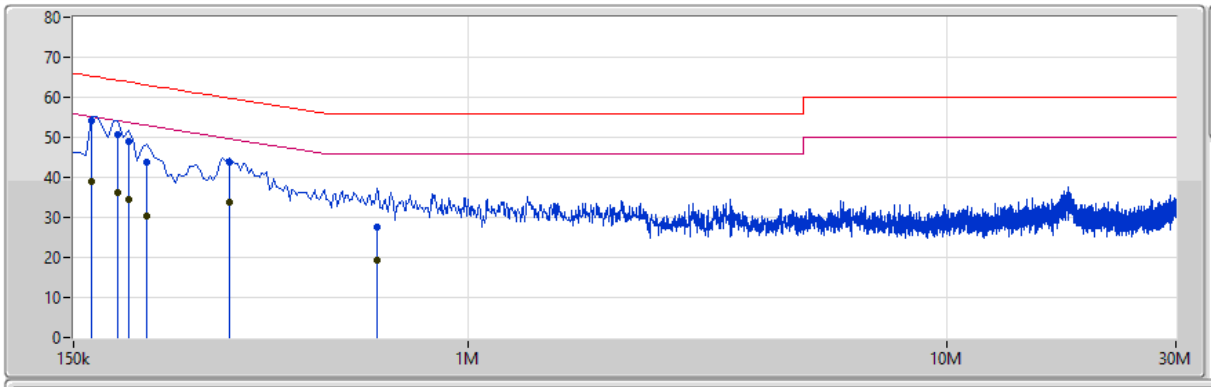
NCR means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	163.5k	54.28	65.27	-10.99	Line

Mode 2

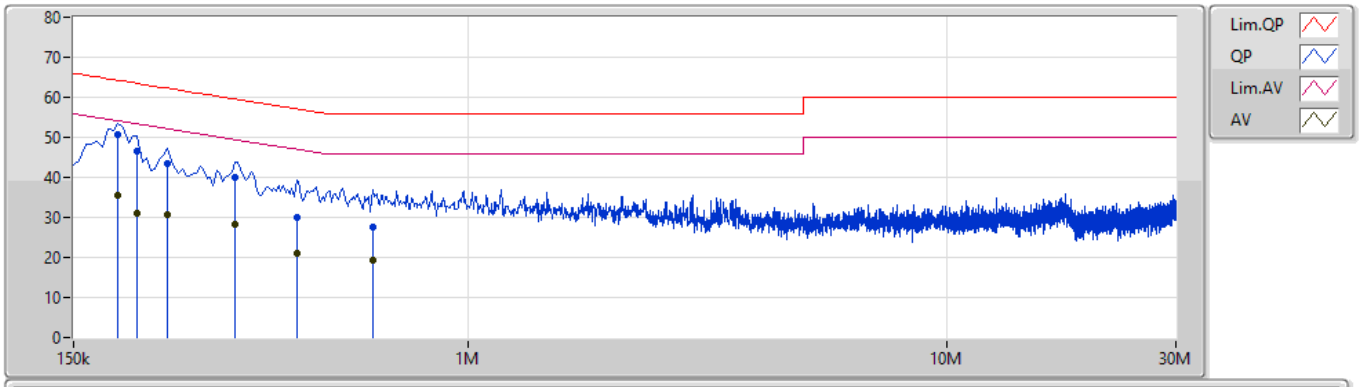
28/01/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT			
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)			
QP	163.5k	54.28	65.27	-10.99	9.89	Line	"Worst"	44.39	0.05	0.03	9.81			
AV	163.5k	38.88	55.27	-16.39	9.89	Line	-	28.99	0.05	0.03	9.81			
QP	186k	50.65	64.20	-13.55	9.89	Line	-	40.76	0.04	0.03	9.82			
AV	186k	36.36	54.20	-17.84	9.89	Line	-	26.47	0.04	0.03	9.82			
QP	195k	49.06	63.82	-14.76	9.89	Line	-	39.17	0.04	0.03	9.82			
AV	195k	34.42	53.82	-19.40	9.89	Line	-	24.53	0.04	0.03	9.82			
QP	213k	43.88	63.09	-19.21	9.89	Line	-	33.99	0.04	0.03	9.82			
AV	213k	30.36	53.09	-22.73	9.89	Line	-	20.47	0.04	0.03	9.82			
QP	316.5k	43.67	59.80	-16.13	9.90	Line	-	33.77	0.04	0.03	9.83			
AV	316.5k	33.92	49.80	-15.88	9.90	Line	-	24.02	0.04	0.03	9.83			
QP	645k	27.56	56.00	-28.44	9.92	Line	-	17.64	0.05	0.04	9.83			
AV	645k	19.40	46.00	-26.60	9.92	Line	-	9.48	0.05	0.04	9.83			

Mode 2

28/01/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	186k	50.67	64.20	-13.53	9.89	Neutral	"Worst"	40.78	0.04	0.03	9.82
AV	186k	35.35	54.20	-18.85	9.89	Neutral	-	25.46	0.04	0.03	9.82
QP	204k	46.66	63.44	-16.78	9.89	Neutral	-	36.77	0.04	0.03	9.82
AV	204k	31.07	53.44	-22.37	9.89	Neutral	-	21.18	0.04	0.03	9.82
QP	235.5k	43.55	62.25	-18.70	9.89	Neutral	-	33.66	0.04	0.03	9.82
AV	235.5k	30.57	52.25	-21.68	9.89	Neutral	-	20.68	0.04	0.03	9.82
QP	325.5k	40.05	59.56	-19.51	9.90	Neutral	-	30.15	0.04	0.03	9.83
AV	325.5k	28.14	49.56	-21.42	9.90	Neutral	-	18.24	0.04	0.03	9.83
QP	438k	29.91	57.11	-27.20	9.90	Neutral	-	20.01	0.04	0.03	9.83
AV	438k	21.16	47.11	-25.95	9.90	Neutral	-	11.26	0.04	0.03	9.83
QP	631.5k	27.70	56.00	-28.30	9.91	Neutral	-	17.79	0.05	0.03	9.83
AV	631.5k	19.19	46.00	-26.81	9.91	Neutral	-	9.28	0.05	0.03	9.83

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	8.025M	13.268M	13M3G1D	7.05M	12.919M
802.11g_Nss1,(6Mbps)_2TX	16M	16.392M	16M4D1D	15.325M	16.367M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.625M	18.891M	18M9D1D	16.625M	18.866M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.6M	37.731M	37M7D1D	35.05M	37.681M

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

Result

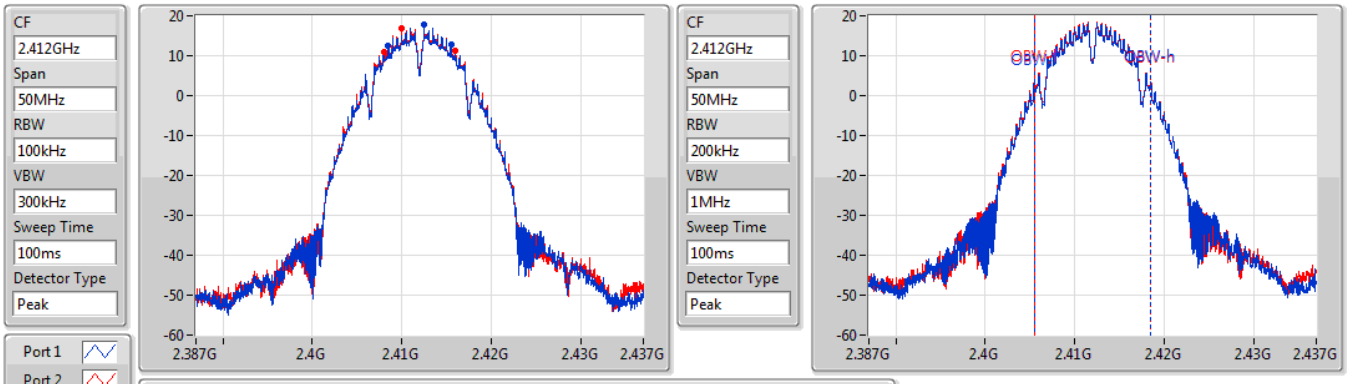
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.05M	12.919M	7.975M	12.919M
2437MHz	Pass	500k	8M	13.043M	8.025M	13.268M
2462MHz	Pass	500k	7.525M	12.944M	7.525M	12.919M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.425M	16.392M	15.325M	16.367M
2437MHz	Pass	500k	16M	16.392M	15.625M	16.392M
2462MHz	Pass	500k	16M	16.392M	15.75M	16.367M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.625M	18.891M	18.625M	18.891M
2437MHz	Pass	500k	18.125M	18.891M	18.125M	18.866M
2462MHz	Pass	500k	17.45M	18.891M	18.325M	18.891M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.65M	37.731M	37.45M	37.731M
2437MHz	Pass	500k	37M	37.681M	36.8M	37.731M
2452MHz	Pass	500k	37.6M	37.731M	35.05M	37.731M

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

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

25/12/2020

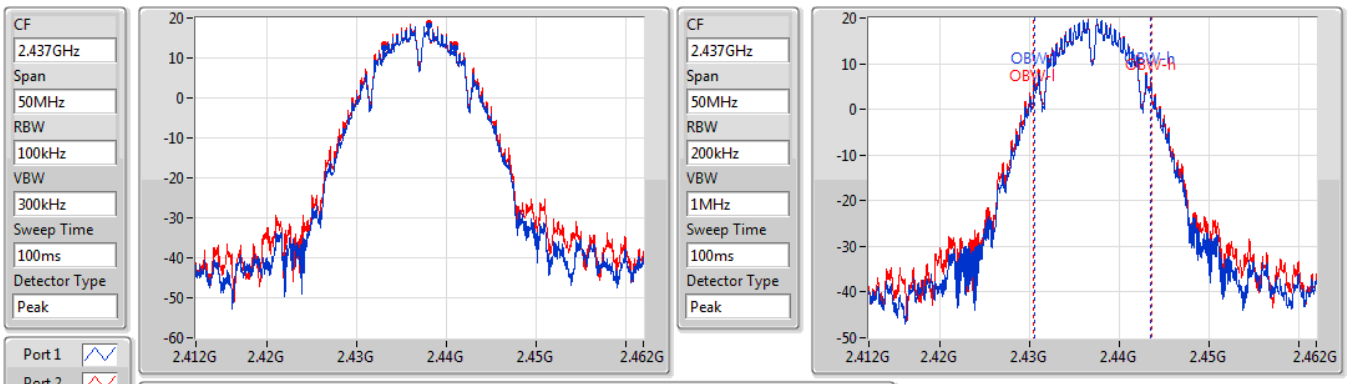


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.05M	2.408475G	2.415525G	12.919M	2.405553G	2.418472G	500k	1
7.975M	2.408G	2.415975G	12.919M	2.405528G	2.418447G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

25/12/2020

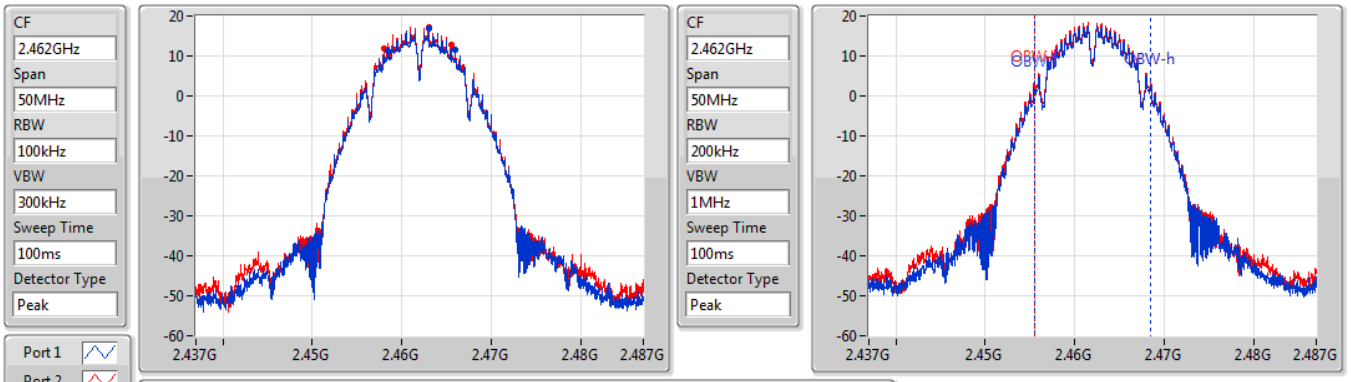


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8M	2.433G	2.441G	13.043M	2.430478G	2.443522G	500k	1
8.025M	2.432975G	2.441G	13.268M	2.430328G	2.443597G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

25/12/2020

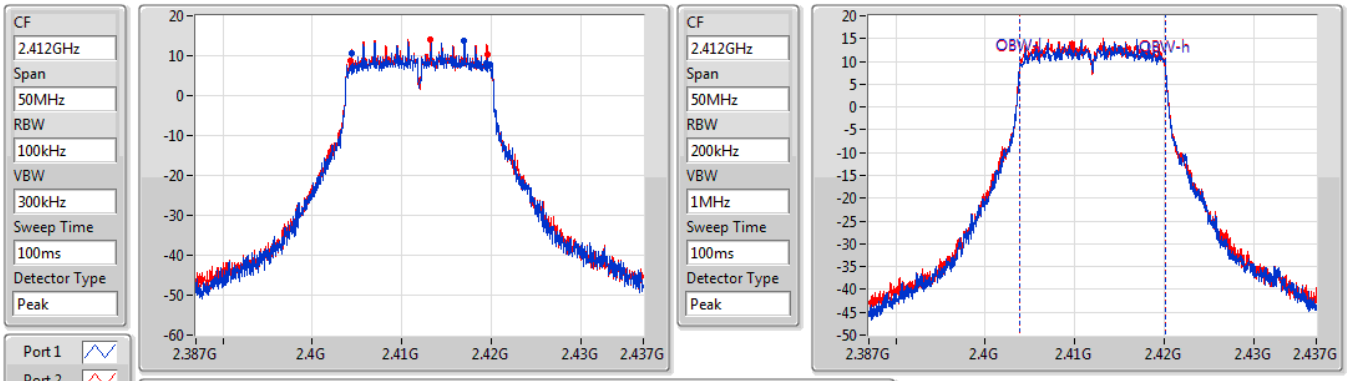


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.525M	2.458475G	2.466G	12.944M	2.455528G	2.468472G	500k	1
7.525M	2.458G	2.465525G	12.919M	2.455528G	2.468447G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

25/12/2020

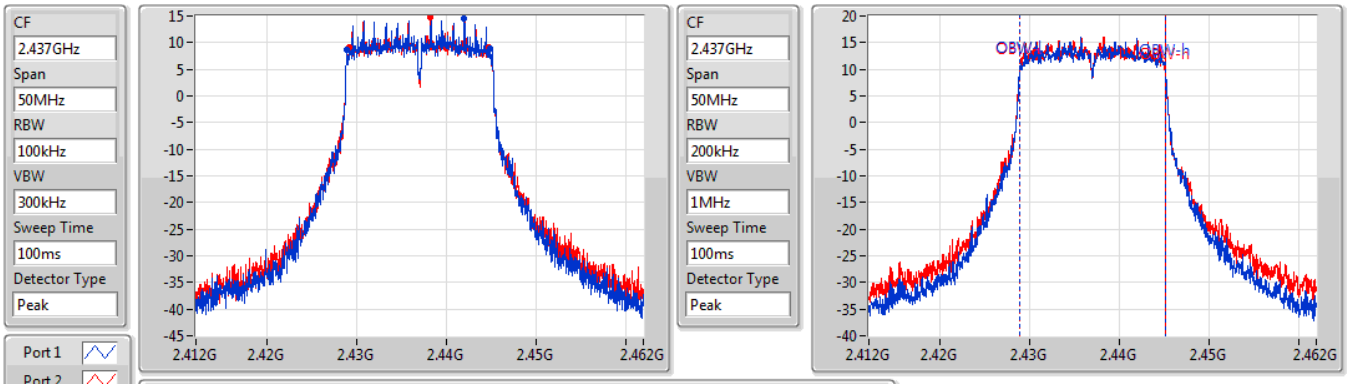


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.425M	2.40445G	2.419875G	16.392M	2.403804G	2.420196G	500k	1
15.325M	2.404225G	2.41955G	16.367M	2.403804G	2.420171G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2437MHz

25/12/2020

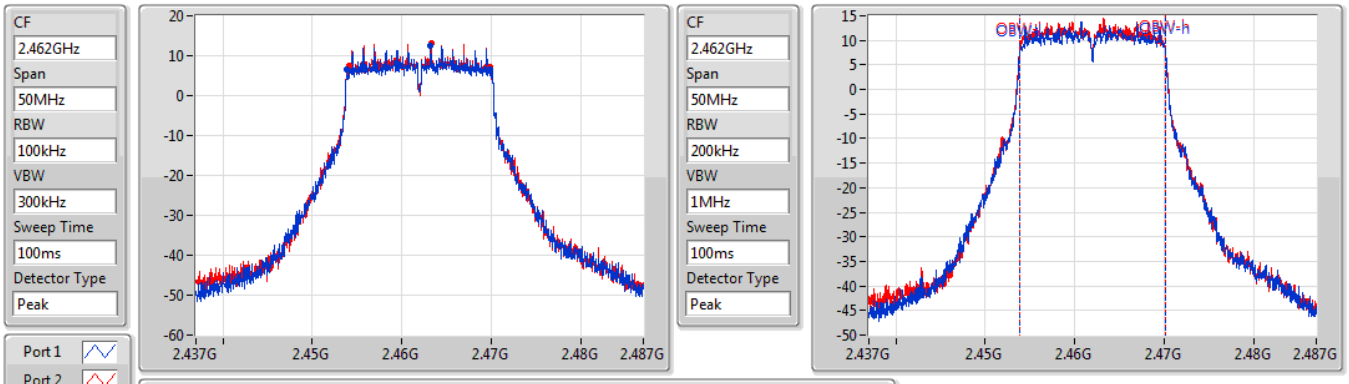


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16M	2.42885G	2.44485G	16.392M	2.428804G	2.445196G	500k	1
15.625M	2.429125G	2.44475G	16.392M	2.428804G	2.445196G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2462MHz

25/12/2020

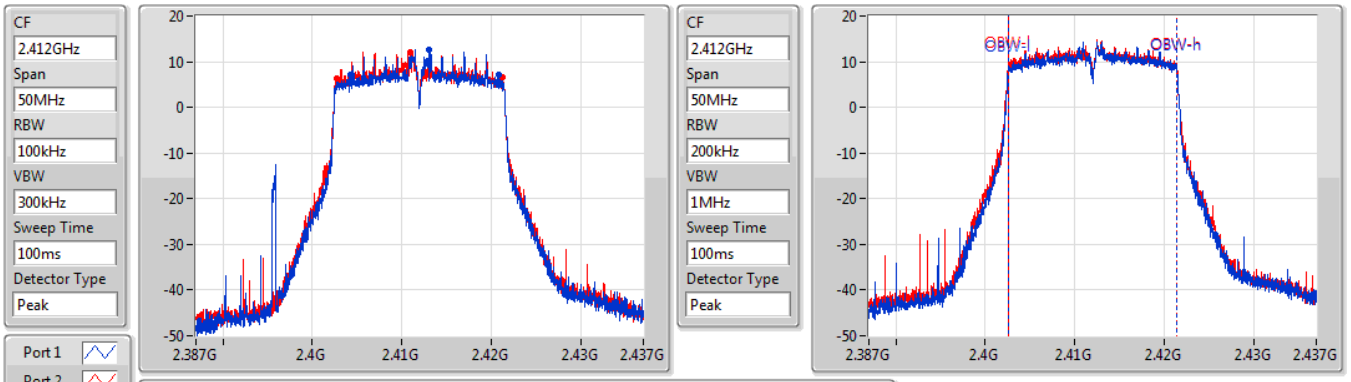


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16M	2.453875G	2.469875G	16.392M	2.453804G	2.470196G	500k	1
15.75M	2.4541G	2.46985G	16.367M	2.453804G	2.470171G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

2412MHz

25/12/2020

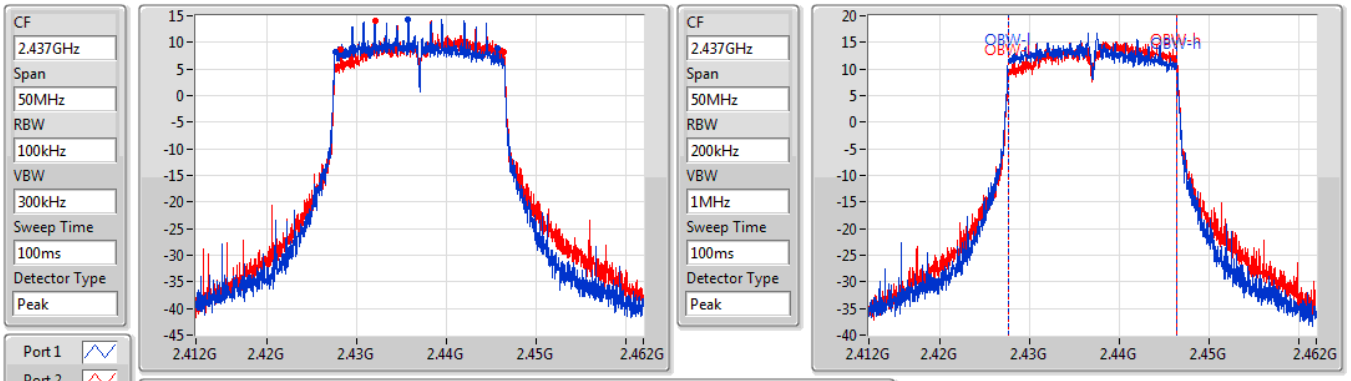


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.625M	2.404225G	2.42085G	18.891M	2.402555G	2.421445G	500k	1
18.625M	2.402675G	2.4213G	18.891M	2.402555G	2.421445G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

2437MHz

25/12/2020

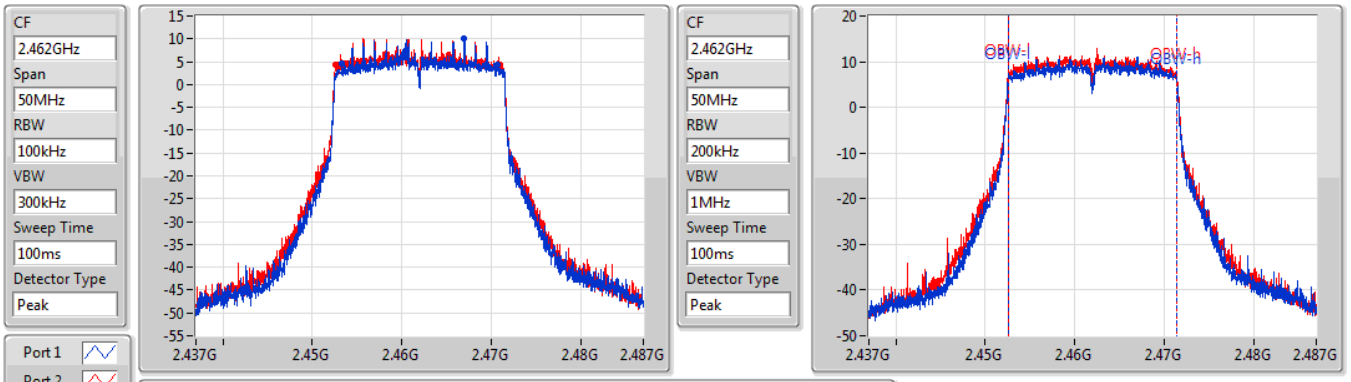


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.125M	2.42755G	2.445675G	18.891M	2.42753G	2.44642G	500k	1
18.125M	2.428225G	2.44635G	18.866M	2.427605G	2.44647G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

2462MHz

25/12/2020

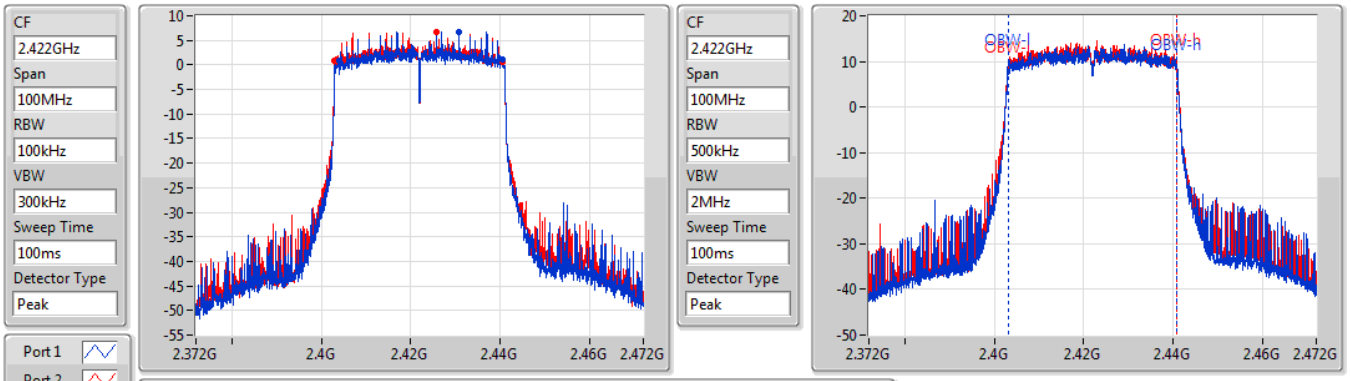


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.45M	2.453275G	2.470725G	18.891M	2.452555G	2.471445G	500k	1
18.325M	2.452625G	2.47095G	18.891M	2.452555G	2.471445G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

2422MHz

25/12/2020

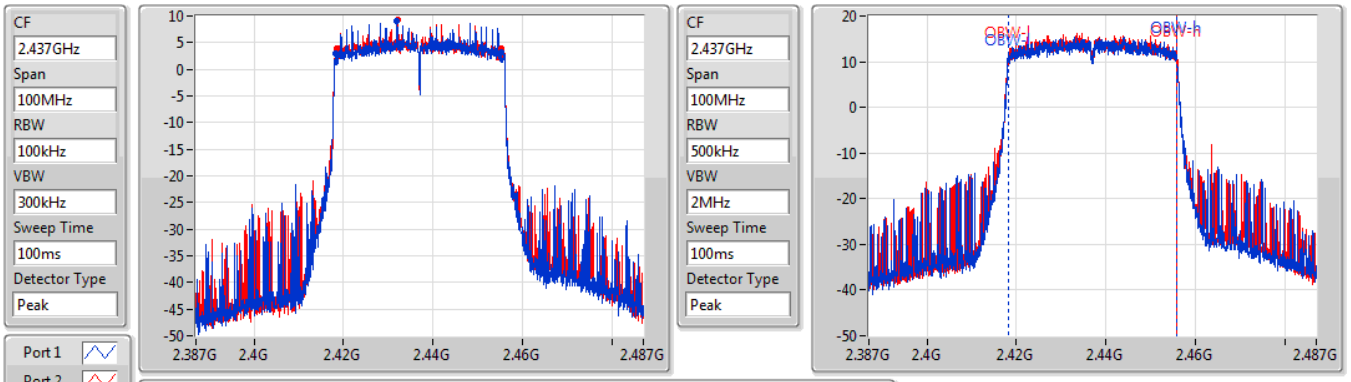


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.65M	2.40395G	2.4406G	37.731M	2.403159G	2.440891G	500k	1
37.45M	2.40305G	2.4405G	37.731M	2.403109G	2.440841G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

2437MHz

25/12/2020

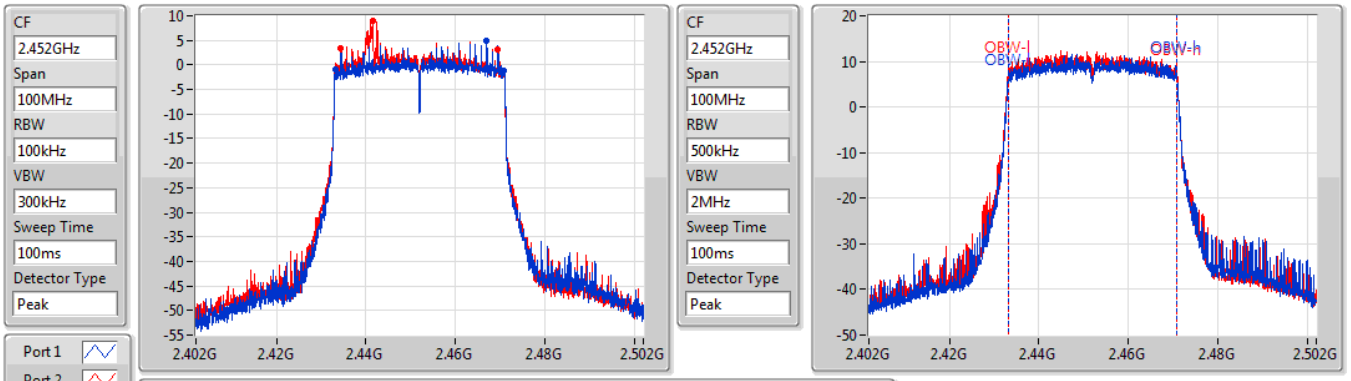


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37M	2.41825G	2.45525G	37.681M	2.418159G	2.455841G	500k	1
36.8M	2.41835G	2.45515G	37.731M	2.418109G	2.455841G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

2452MHz

25/12/2020



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.6M	2.4333G	2.4709G	37.731M	2.433109G	2.470841G	500k	1
35.05M	2.43445G	2.4695G	37.731M	2.433109G	2.470841G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	29.98	0.99541
802.11g_Nss1,(6Mbps)_2TX	27.51	0.56364
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	27.01	0.50234
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.51	0.35563

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.65	25.59	25.24	28.43	30.00
2437MHz	Pass	1.65	27.17	26.75	29.98	30.00
2462MHz	Pass	1.65	25.31	24.81	28.08	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.65	23.91	23.44	26.69	30.00
2437MHz	Pass	1.65	24.58	24.41	27.51	30.00
2462MHz	Pass	1.65	22.82	22.43	25.64	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.64	22.13	21.81	24.98	30.00
2437MHz	Pass	4.64	23.83	24.17	27.01	30.00
2457MHz	Pass	4.64	22.01	22.34	25.19	30.00
2462MHz	Pass	4.64	20.11	20.00	23.07	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.64	20.50	20.12	23.32	30.00
2437MHz	Pass	4.64	22.70	22.30	25.51	30.00
2447MHz	Pass	4.64	18.01	18.38	21.21	30.00
2452MHz	Pass	4.64	18.31	18.19	21.26	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	7.88
802.11g_Nss1,(6Mbps)_2TX	-0.79
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.36
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-4.48

RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

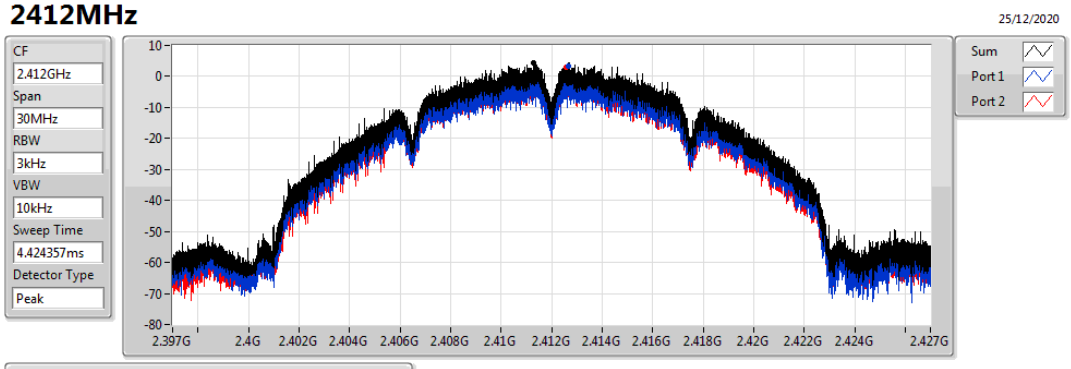
Result

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	4.64	3.37	2.95	4.45	8.00
2437MHz	Pass	4.64	4.91	4.88	7.88	8.00
2462MHz	Pass	4.64	2.41	2.72	5.55	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.64	-3.99	-3.80	-1.58	8.00
2437MHz	Pass	4.64	-2.91	-1.97	-0.79	8.00
2462MHz	Pass	4.64	-4.02	-4.32	-2.52	8.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.64	-4.29	-3.62	-1.68	8.00
2437MHz	Pass	4.64	-2.23	-0.43	0.36	8.00
2462MHz	Pass	4.64	-6.99	-5.45	-4.25	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.64	-8.00	-7.89	-5.82	8.00
2437MHz	Pass	4.64	-6.23	-6.19	-4.48	8.00
2452MHz	Pass	4.64	-10.42	-10.13	-8.23	8.00

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_2TX PSD

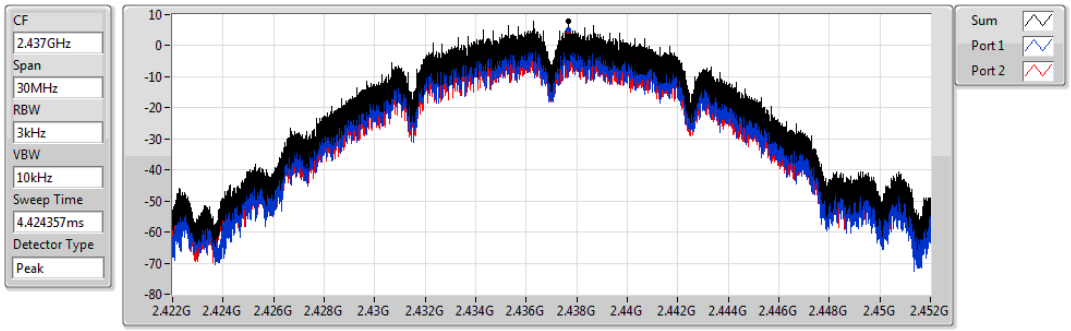
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.45	4.45	3.37	2.95

802.11b_Nss1,(1Mbps)_2TX PSD

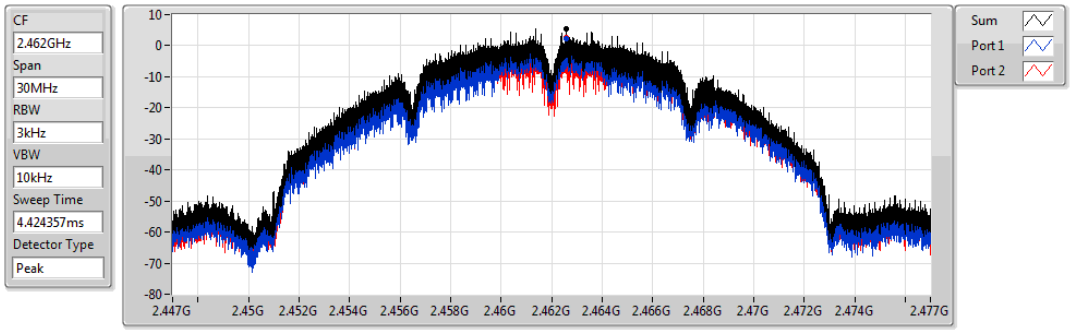
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.88	7.88	4.91	4.88

802.11b_Nss1,(1Mbps)_2TX PSD

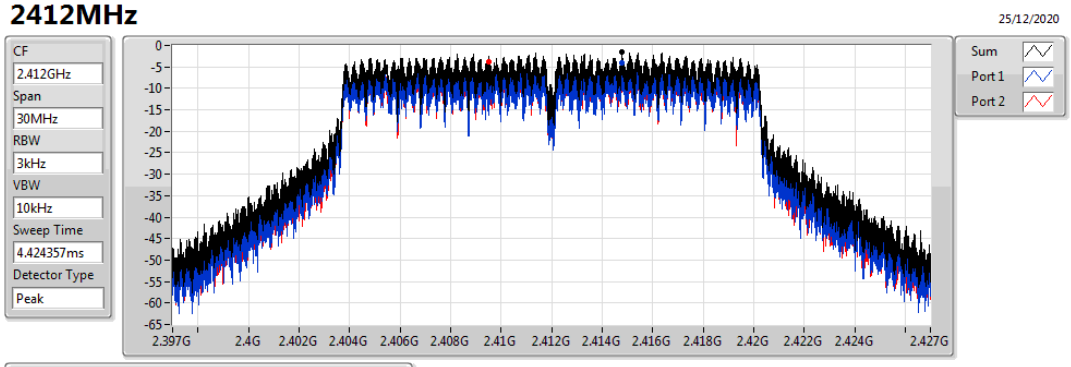
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.55	5.55	2.41	2.72

802.11g_Nss1,(6Mbps)_2TX PSD

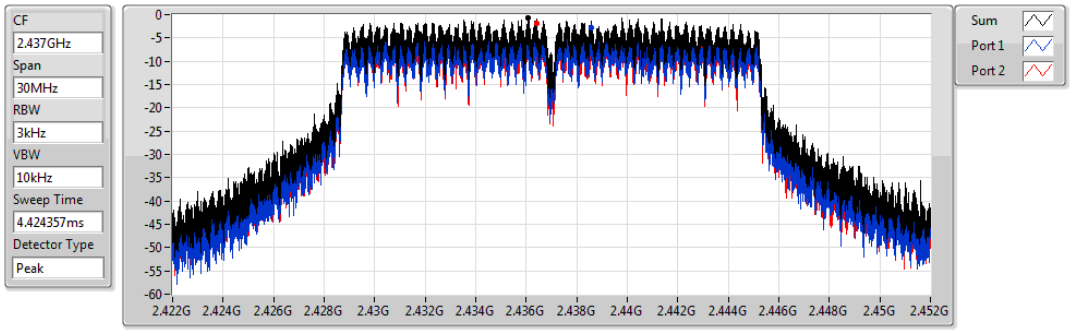
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.58	-1.58	-3.99	-3.80

802.11g_Nss1,(6Mbps)_2TX PSD

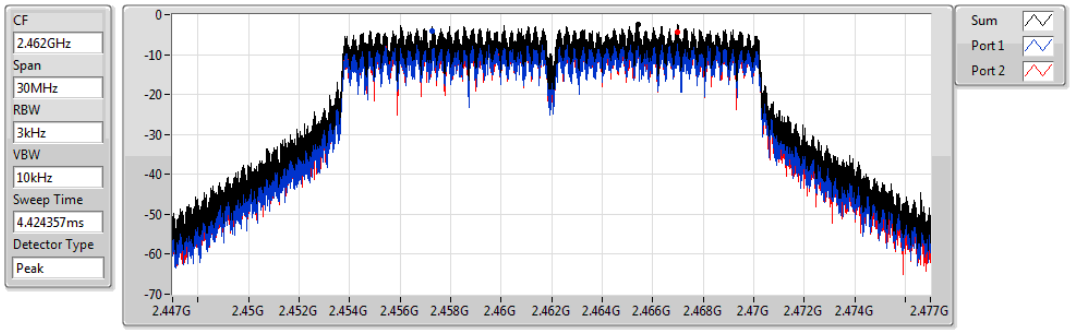
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.79	-0.79	-2.91	-1.97

802.11g_Nss1,(6Mbps)_2TX PSD

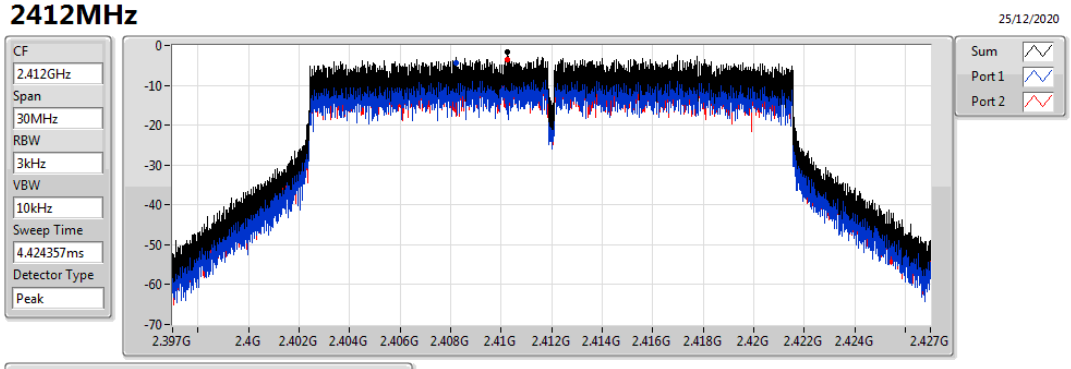
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.52	-2.52	-4.02	-4.32

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

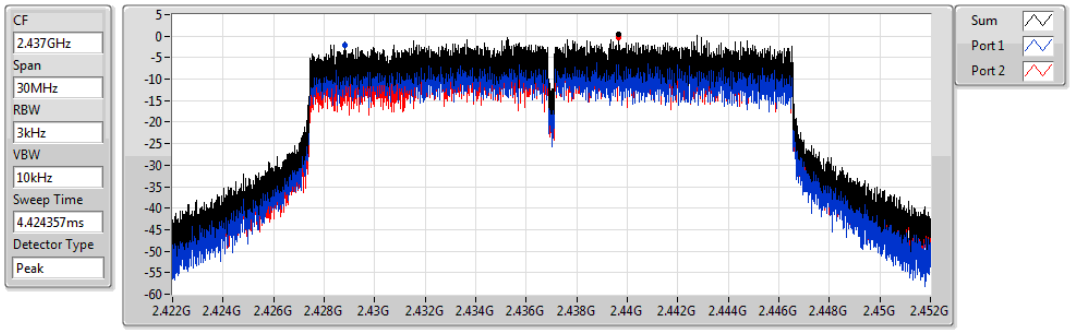
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.68	-1.68	-4.29	-3.62

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

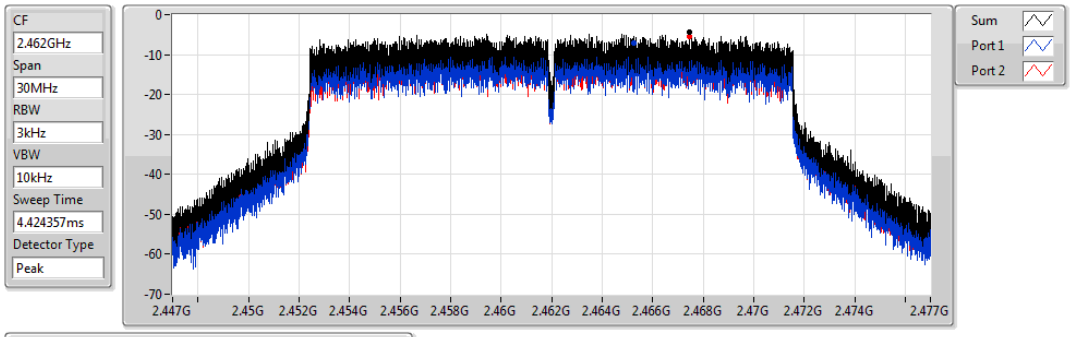
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.36	0.36	-2.23	-0.43

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

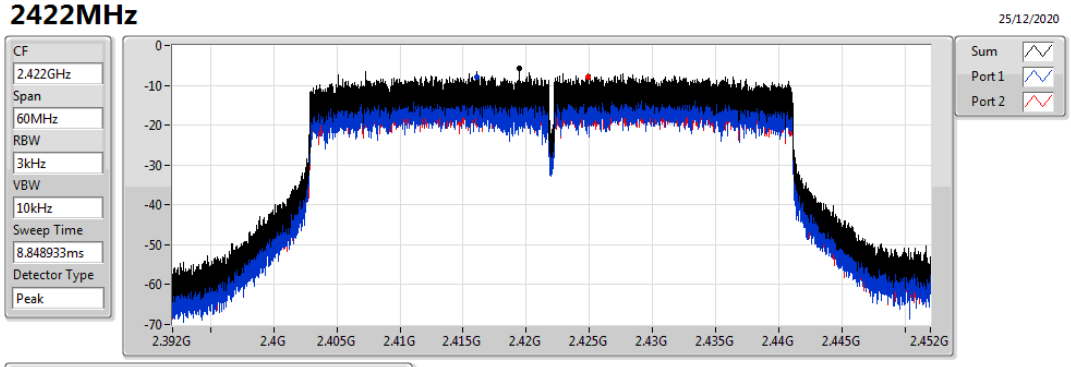
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.25	-4.25	-6.99	-5.45

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

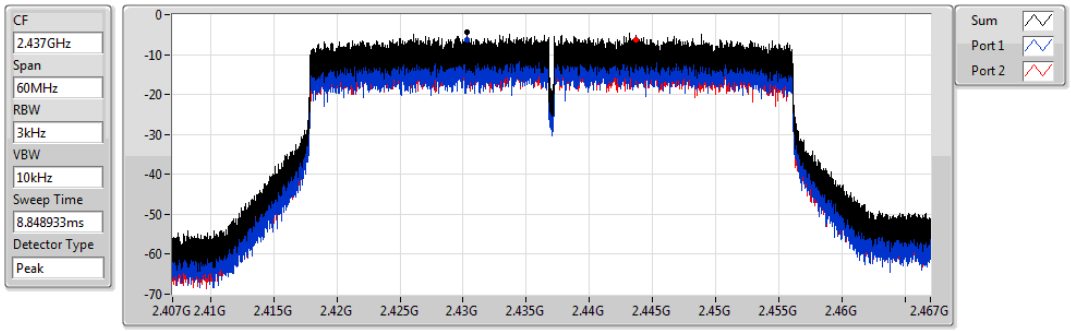
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.82	-5.82	-8.00	-7.89

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

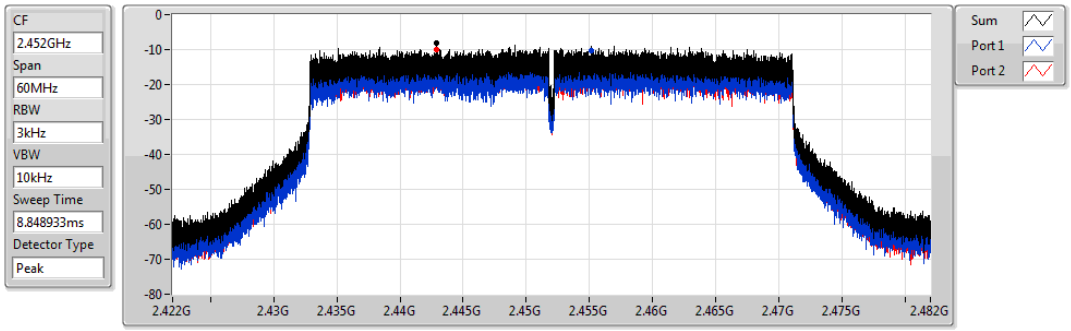
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.48	-4.48	-6.23	-6.19

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.23	-8.23	-10.42	-10.13

Summary

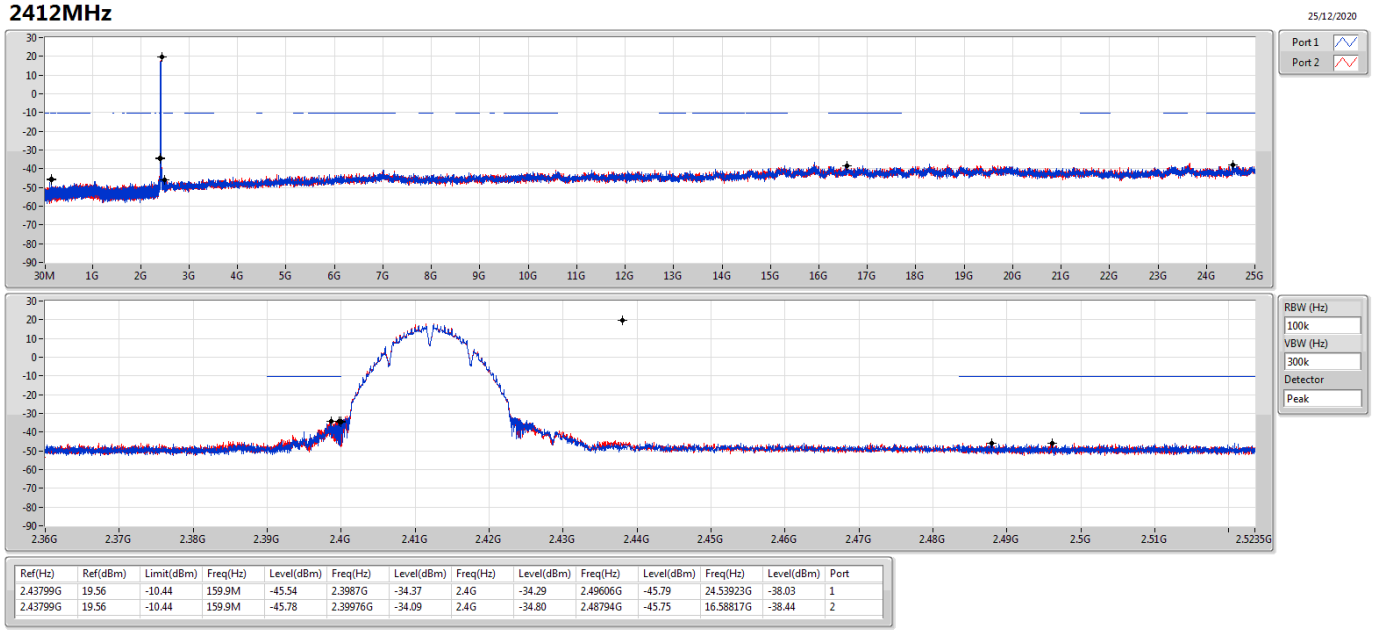
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43799G	19.56	-10.44	159.9M	-45.78	2.39976G	-34.09	2.4G	-34.80	2.48794G	-45.75	16.58817G	-38.44	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.442G	15.25	-14.75	2.04429G	-46.83	2.3999G	-23.03	2.4G	-21.74	2.52266G	-45.63	24.90167G	-37.36	2
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.44196G	14.68	-15.32	938.7M	-47.98	2.39998G	-20.93	2.4G	-24.65	2.52196G	-45.22	17.67547G	-38.20	1
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.43202G	9.90	-20.10	159.96M	-45.44	2.39988G	-25.11	2.4G	-28.82	2.48786G	-42.27	16.95651G	-37.52	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43799G	19.56	-10.44	159.9M	-45.54	2.3987G	-34.37	2.4G	-34.29	2.49606G	-45.79	24.53923G	-38.03	1
2412MHz	Pass	2.43799G	19.56	-10.44	159.9M	-45.78	2.39976G	-34.09	2.4G	-34.80	2.48794G	-45.75	16.58817G	-38.44	2
2437MHz	Pass	2.43799G	19.56	-10.44	159.9M	-43.88	2.39508G	-45.84	2.4G	-47.82	2.5094G	-45.53	17.61647G	-37.83	1
2437MHz	Pass	2.43799G	19.56	-10.44	159.9M	-45.24	2.39956G	-44.02	2.4G	-44.12	2.48552G	-45.64	24.60947G	-36.76	2
2462MHz	Pass	2.43799G	19.56	-10.44	159.9M	-46.06	2.39438G	-46.99	2.4835G	-46.86	2.50222G	-45.17	24.55047G	-37.84	1
2462MHz	Pass	2.43799G	19.56	-10.44	159.9M	-45.89	2.39832G	-46.32	2.4835G	-47.11	2.49008G	-43.33	24.55047G	-38.34	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	15.25	-14.75	159.9M	-47.32	2.3998G	-23.52	2.4G	-23.41	2.5027G	-44.98	16.27069G	-38.06	1
2412MHz	Pass	2.442G	15.25	-14.75	2.04429G	-46.83	2.3999G	-23.03	2.4G	-21.74	2.52266G	-45.63	24.90167G	-37.36	2
2437MHz	Pass	2.442G	15.25	-14.75	2.30204G	-47.63	2.3995G	-42.38	2.4G	-44.62	2.49036G	-45.24	24.95505G	-38.12	1
2437MHz	Pass	2.442G	15.25	-14.75	729.58M	-46.43	2.39954G	-40.46	2.4G	-42.00	2.48482G	-42.81	24.9719G	-37.75	2
2462MHz	Pass	2.442G	15.25	-14.75	1.85497G	-46.20	2.39496G	-46.55	2.4835G	-43.34	2.4839G	-40.89	16.24259G	-35.84	1
2462MHz	Pass	2.442G	15.25	-14.75	159.9M	-46.04	2.3925G	-46.53	2.4835G	-44.26	2.4845G	-41.20	24.64038G	-38.47	2
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44196G	14.68	-15.32	938.7M	-47.98	2.39998G	-20.93	2.4G	-24.65	2.52196G	-45.22	17.67547G	-38.20	1
2412MHz	Pass	2.44196G	14.68	-15.32	1.99332G	-47.00	2.39996G	-21.24	2.4G	-22.49	2.5185G	-45.96	23.34798G	-37.51	2
2437MHz	Pass	2.44196G	14.68	-15.32	159.9M	-45.50	2.3995G	-42.44	2.4G	-44.05	2.48508G	-44.26	16.61627G	-37.08	1
2437MHz	Pass	2.44196G	14.68	-15.32	159.9M	-46.63	2.39982G	-44.28	2.4G	-45.53	2.48508G	-46.05	16.62188G	-37.57	2
2462MHz	Pass	2.44196G	14.68	-15.32	159.9M	-46.59	2.39962G	-47.43	2.4835G	-42.74	2.48358G	-41.31	16.54603G	-37.80	1
2462MHz	Pass	2.44196G	14.68	-15.32	159.9M	-45.13	2.3946G	-46.65	2.4835G	-42.69	2.48426G	-41.07	23.33955G	-38.11	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43202G	9.90	-20.10	159.96M	-45.44	2.39988G	-25.11	2.4G	-28.82	2.48786G	-42.27	16.95651G	-37.52	1
2422MHz	Pass	2.43202G	9.90	-20.10	32.58M	-44.32	2.39972G	-25.67	2.4G	-26.61	2.50266G	-43.46	23.32568G	-37.68	2
2437MHz	Pass	2.43202G	9.90	-20.10	32M	-42.37	2.39952G	-25.87	2.4G	-42.97	2.48546G	-38.52	24.91586G	-37.86	1
2437MHz	Pass	2.43202G	9.90	-20.10	39.73M	-38.72	2.39848G	-26.03	2.4835G	-43.07	2.48462G	-37.47	24.96915G	-37.36	2
2452MHz	Pass	2.43202G	9.90	-20.10	159.96M	-45.78	2.39556G	-47.55	2.4835G	-41.61	2.48482G	-36.07	23.34531G	-38.26	1
2452MHz	Pass	2.43202G	9.90	-20.10	159.96M	-44.22	2.399G	-46.85	2.4835G	-45.38	2.49046G	-37.66	16.94249G	-37.78	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

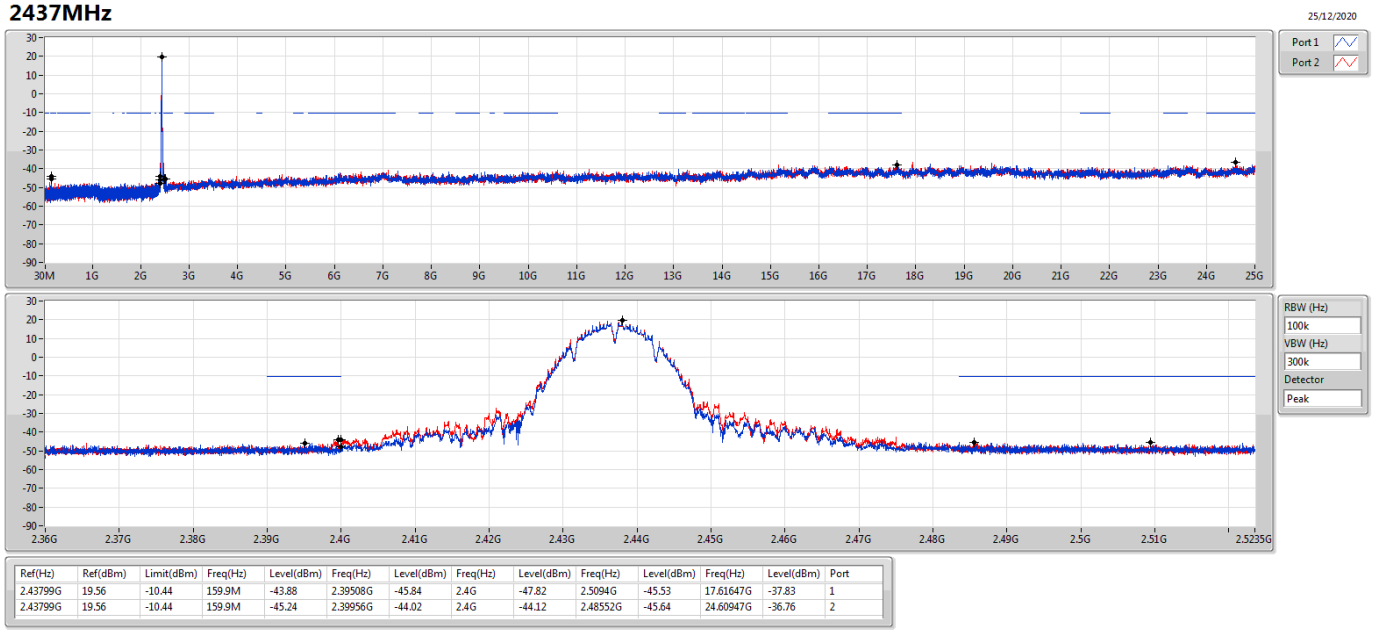
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	19.56	-10.44	159.9M	-45.54	2.3987G	-34.37	2.4G	-34.29	2.49606G	-45.79	24.53923G	-38.03	1
2.43799G	19.56	-10.44	159.9M	-45.78	2.39976G	-34.09	2.4G	-34.80	2.48794G	-45.75	16.58817G	-38.44	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

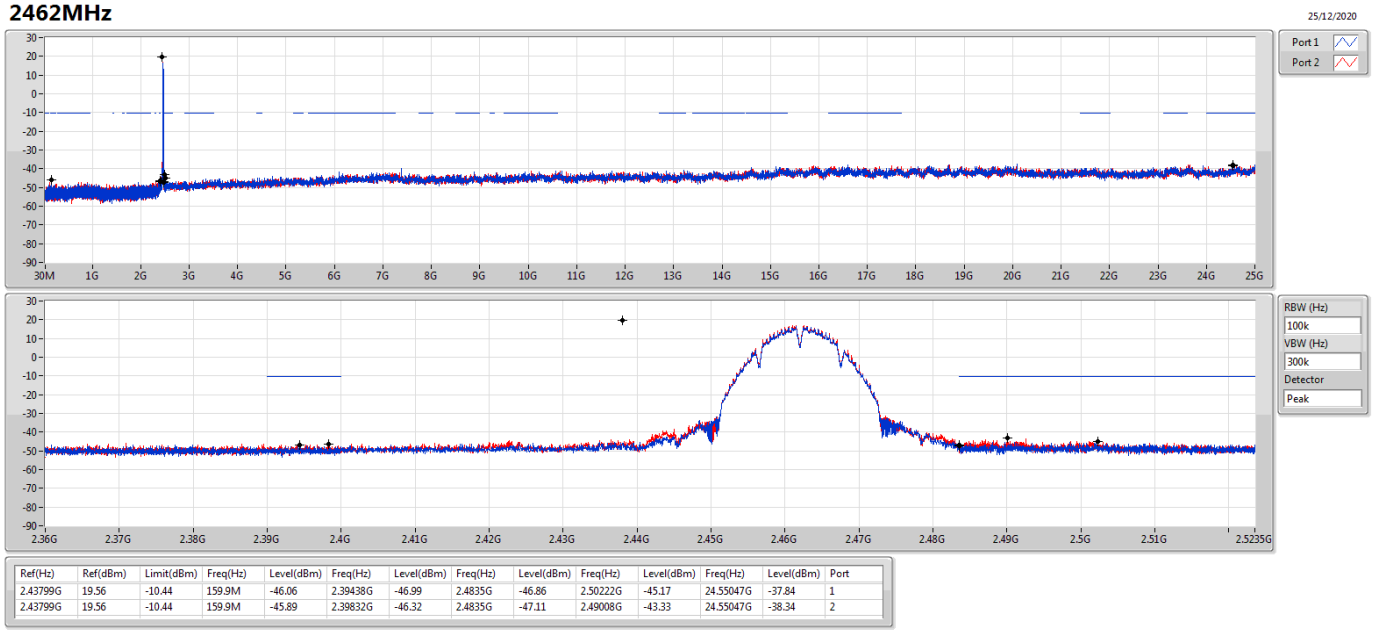
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	19.56	-10.44	159.9M	-43.88	2.39508G	-45.84	2.4G	-47.82	2.5094G	-45.53	17.61647G	-37.83	1
2.43799G	19.56	-10.44	159.9M	-45.24	2.39956G	-44.02	2.4G	-44.12	2.48552G	-45.64	24.60947G	-36.76	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

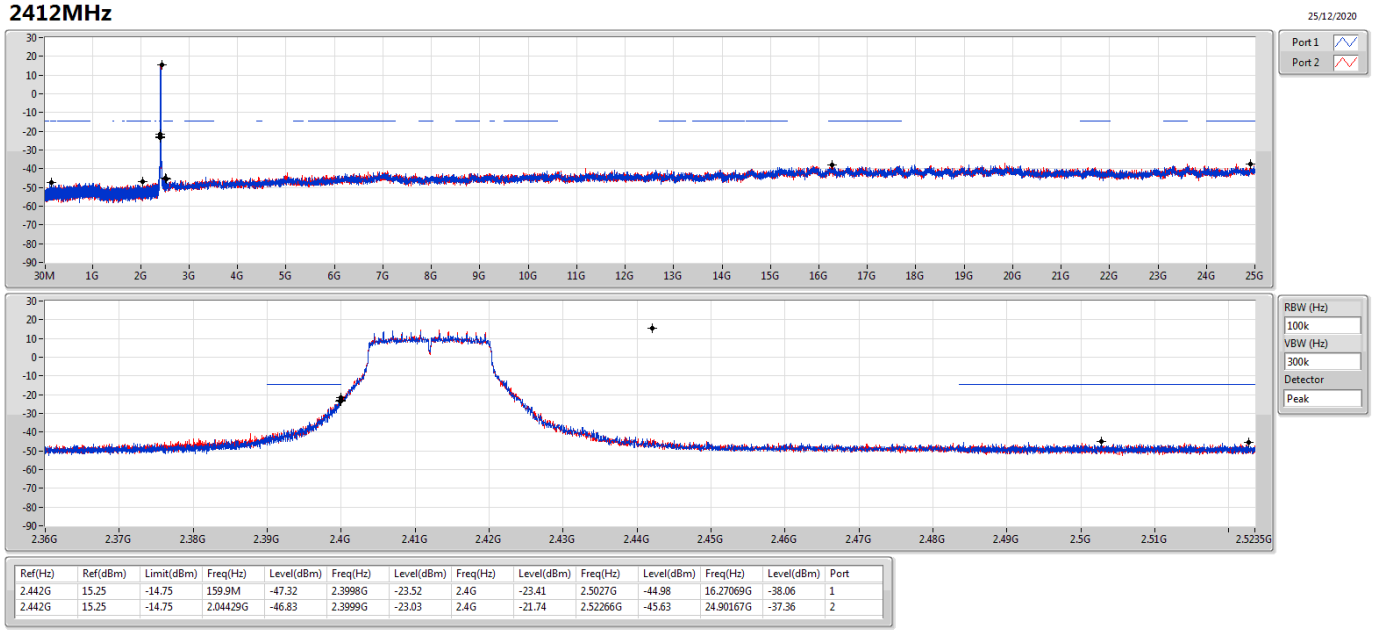
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	19.56	-10.44	159.9M	-46.06	2.39438G	-46.99	2.4835G	-46.86	2.50222G	-45.17	24.55047G	-37.84	1
2.43799G	19.56	-10.44	159.9M	-45.89	2.39832G	-46.32	2.4835G	-47.11	2.49008G	-43.33	24.55047G	-38.34	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

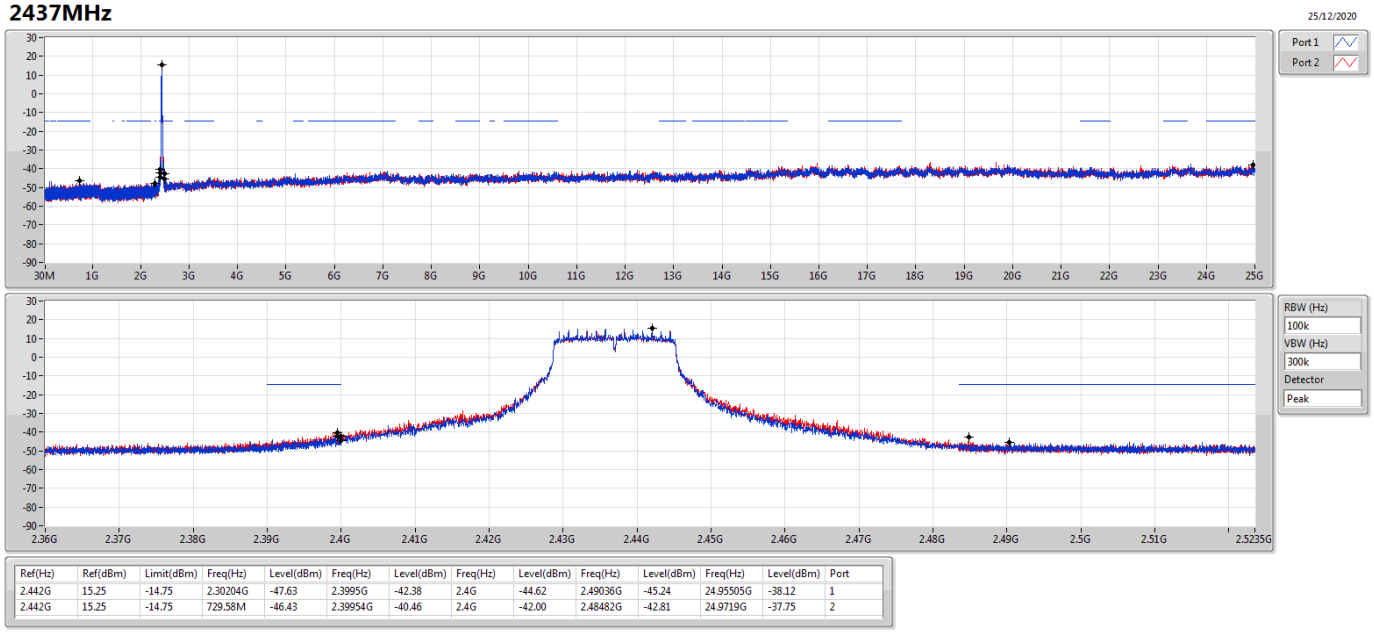
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	15.25	-14.75	159.9M	-47.32	2.3998G	-23.52	2.4G	-23.41	2.5027G	-44.98	16.27069G	-38.06	1
2.442G	15.25	-14.75	2.04429G	-46.83	2.3999G	-23.03	2.4G	-21.74	2.52266G	-45.63	24.90167G	-37.36	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

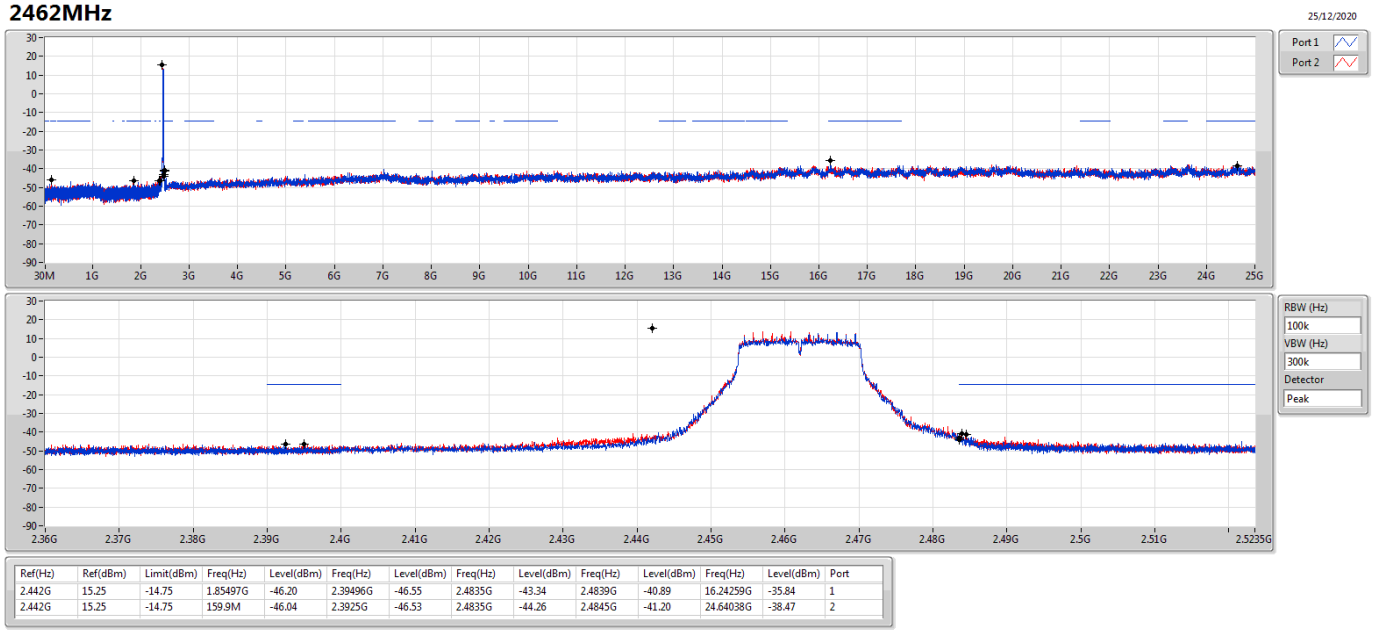
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	15.25	-14.75	2.30204G	-47.63	2.3995G	-42.38	2.4G	-44.62	2.49036G	-45.24	24.95505G	-38.12	1
2.442G	15.25	-14.75	729.58M	-46.43	2.39954G	-40.46	2.4G	-42.00	2.48482G	-42.81	24.9719G	-37.75	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

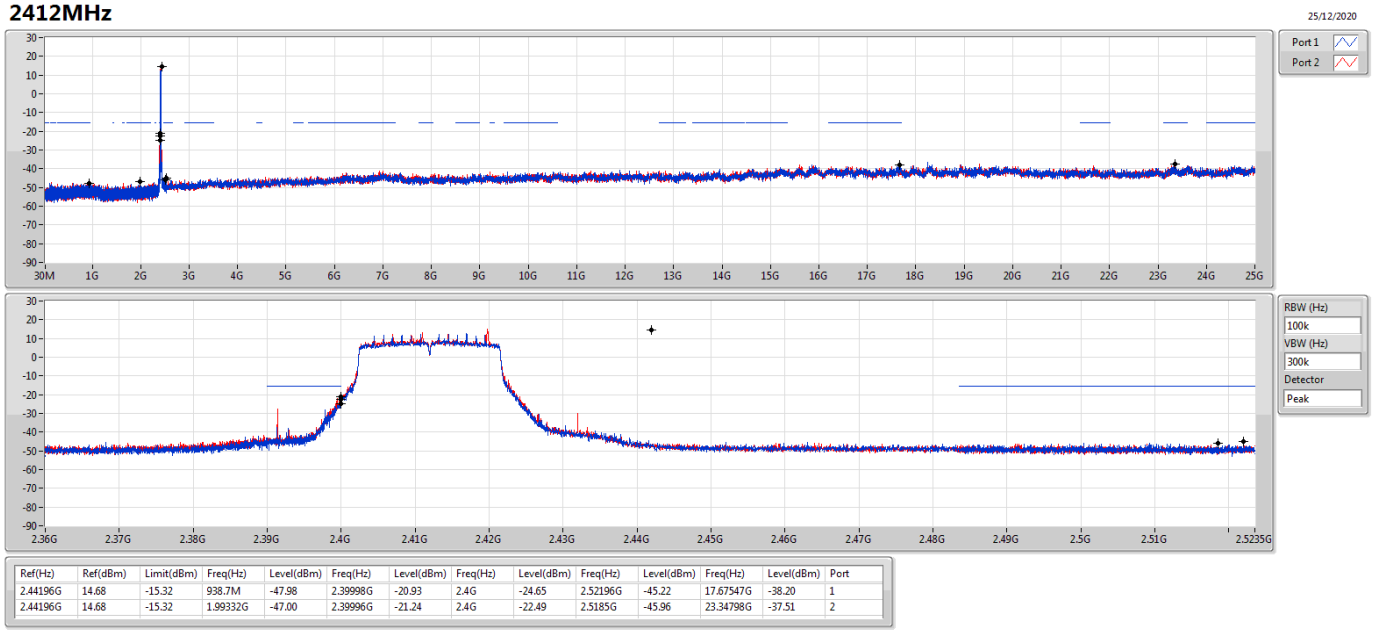
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	15.25	-14.75	1.85497G	-46.20	2.39496G	-46.55	2.4835G	-43.34	2.4839G	-40.89	16.24259G	-35.84	1
2.442G	15.25	-14.75	159.9M	-46.04	2.3925G	-46.53	2.4835G	-44.26	2.4845G	-41.20	24.64038G	-38.47	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **CSE NdB**

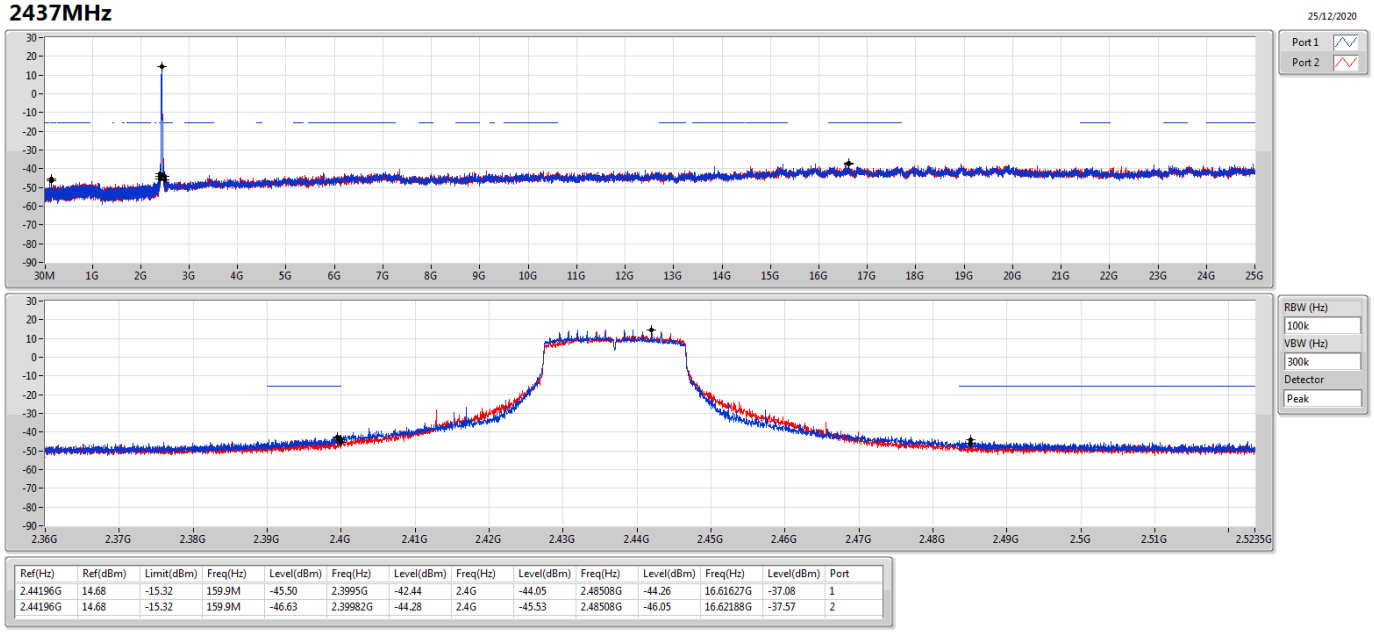
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44196G	14.68	-15.32	938.7M	-47.98	2.39998G	-20.93	2.4G	-24.65	2.52196G	-45.22	17.67547G	-38.20	1
2.44196G	14.68	-15.32	1.99332G	-47.00	2.39996G	-21.24	2.4G	-22.49	2.5185G	-45.96	23.34798G	-37.51	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **CSE NdB**

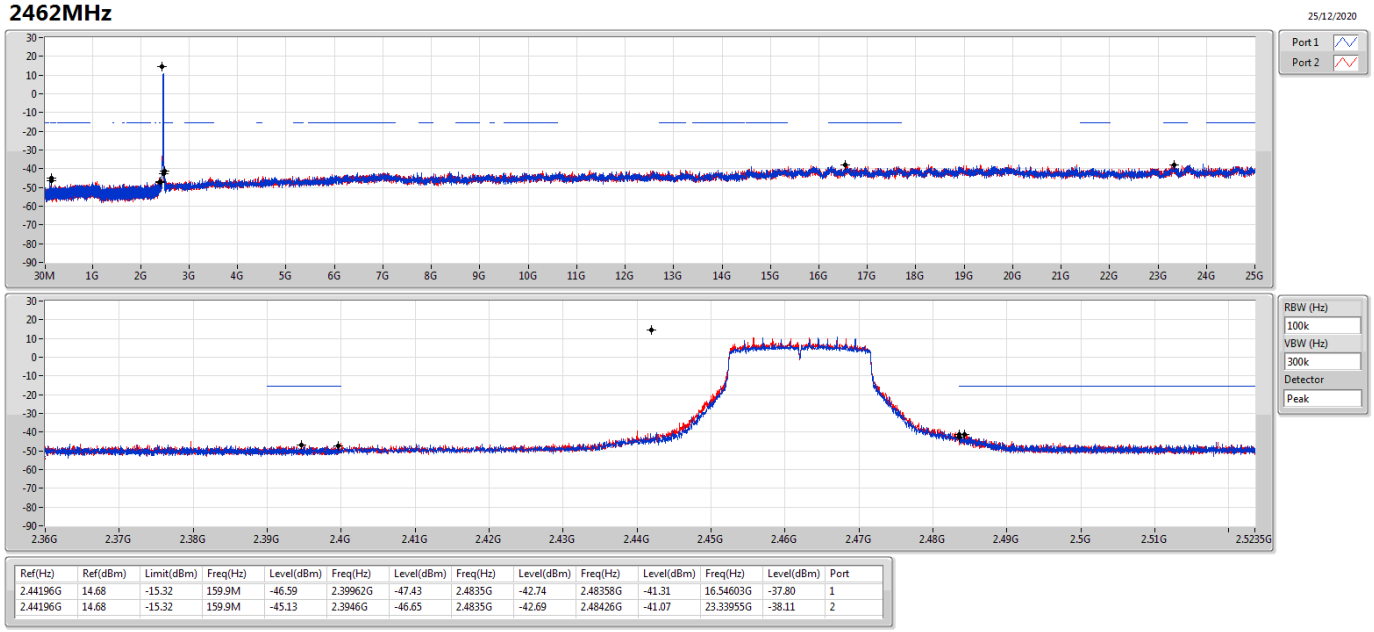
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44196G	14.68	-15.32	159.9M	-45.50	2.3995G	-42.44	2.4G	-44.05	2.48508G	-44.26	16.61627G	-37.08	1
2.44196G	14.68	-15.32	159.9M	-46.63	2.39982G	-44.28	2.4G	-45.53	2.48508G	-46.05	16.62188G	-37.57	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **CSE NdB**

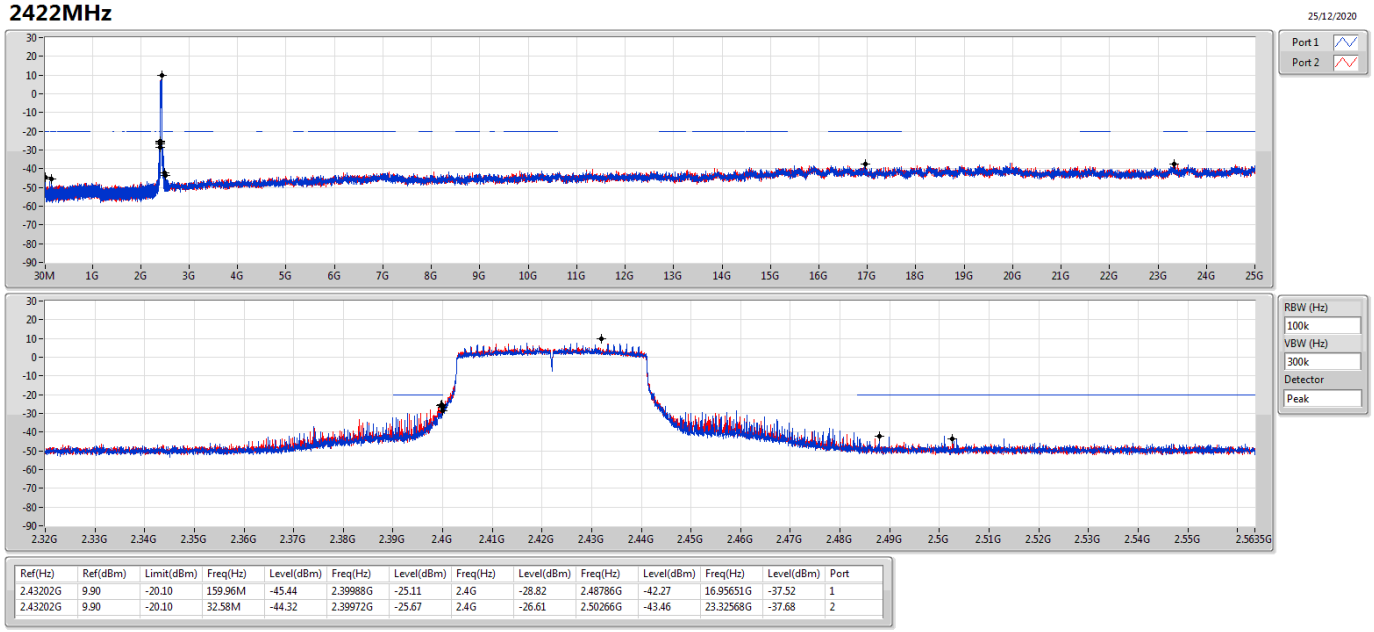
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44196G	14.68	-15.32	159.9M	-46.59	2.39962G	-47.43	2.4835G	-42.74	2.48358G	-41.31	16.54603G	-37.80	1
2.44196G	14.68	-15.32	159.9M	-45.13	2.3946G	-46.65	2.4835G	-42.69	2.48426G	-41.07	23.33955G	-38.11	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **CSE NdB**

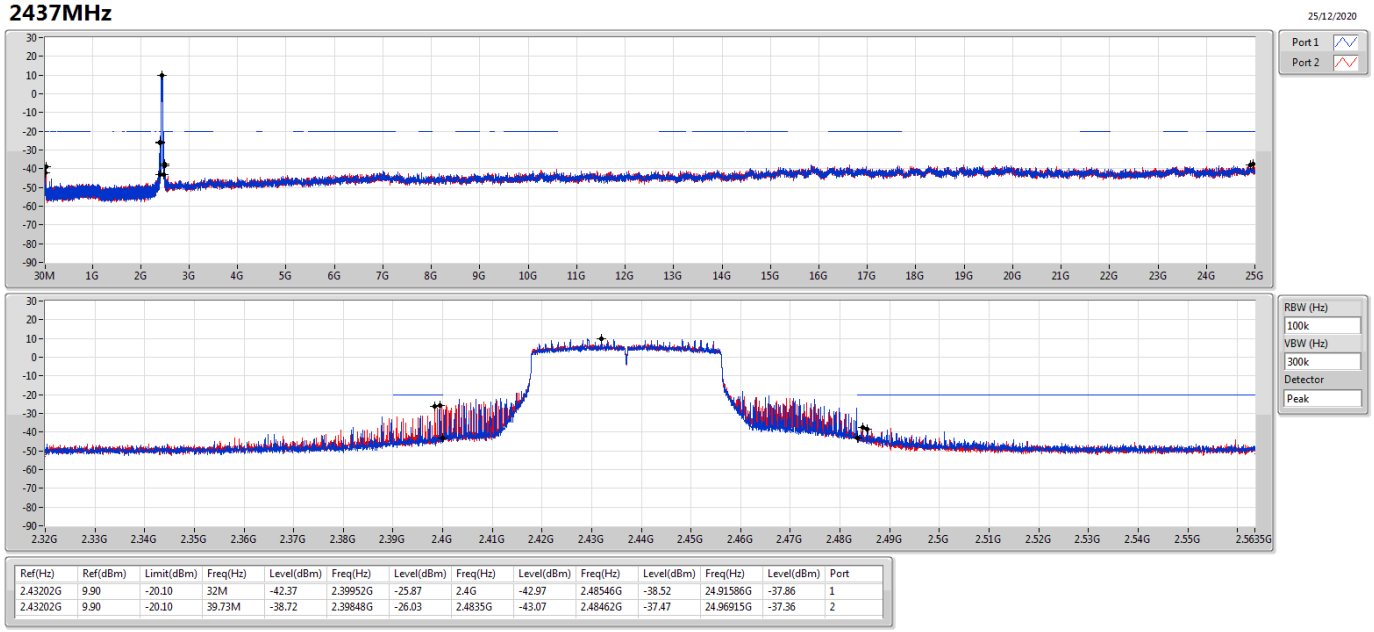
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	9.90	-20.10	159.96M	-45.44	2.39988G	-25.11	2.4G	-28.82	2.48786G	-42.27	16.95651G	-37.52	1
2.43202G	9.90	-20.10	32.58M	-44.32	2.39972G	-25.67	2.4G	-26.61	2.50266G	-43.46	23.32568G	-37.68	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **CSE NdB**

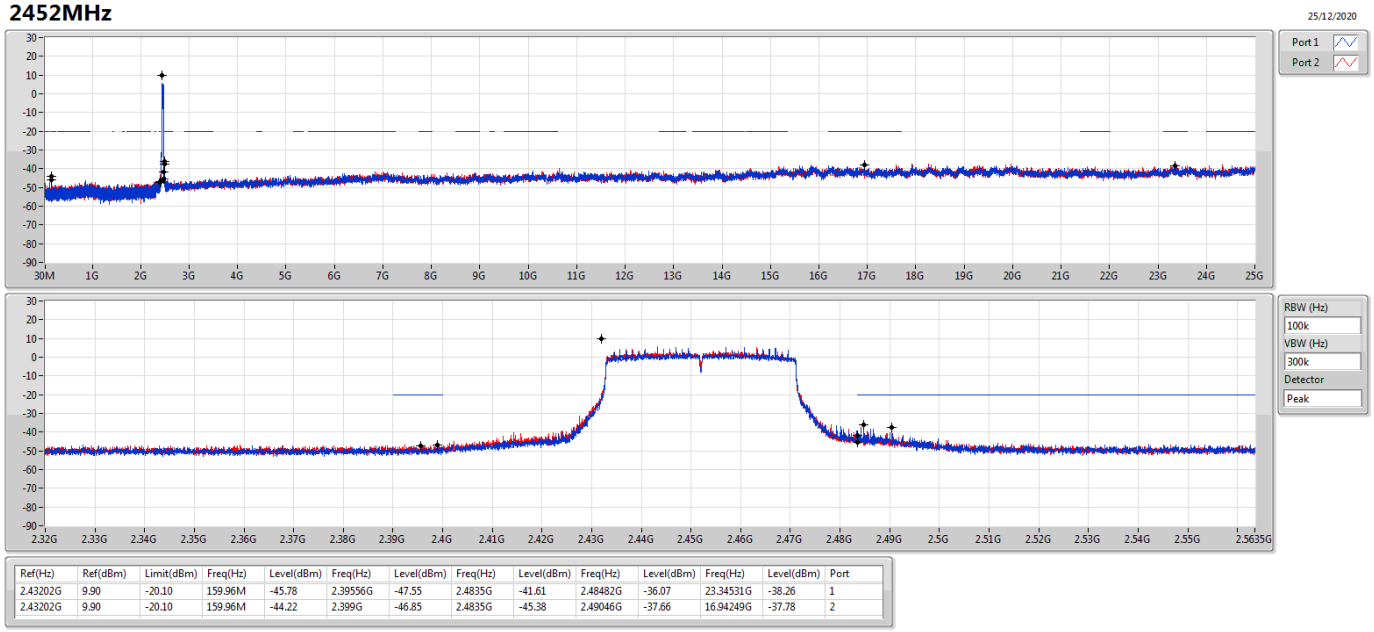
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	9.90	-20.10	32M	-42.37	2.39952G	-25.87	2.4G	-42.97	2.48546G	-38.52	24.91586G	-37.86	1
2.43202G	9.90	-20.10	39.73M	-38.72	2.39848G	-26.03	2.4835G	-43.07	2.48462G	-37.47	24.96915G	-37.36	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **CSE NdB**

2452MHz



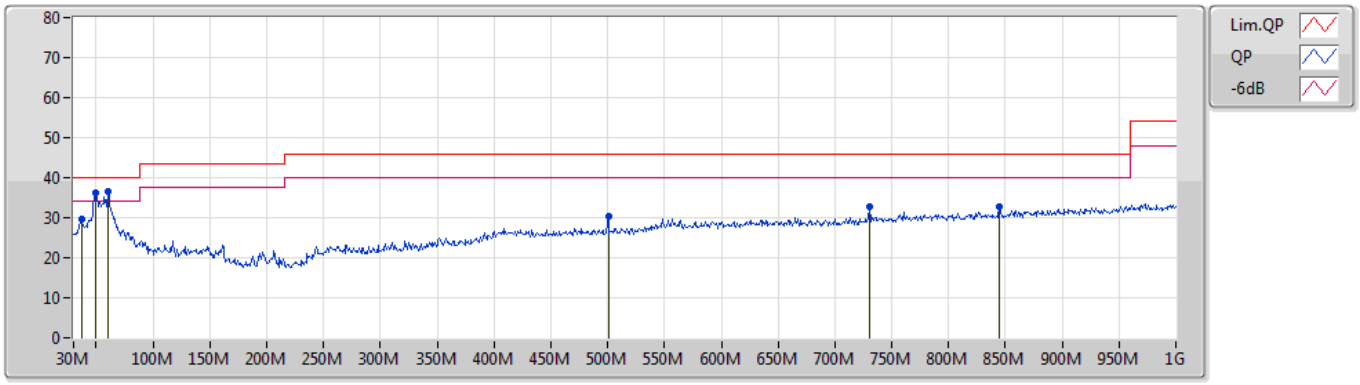
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	9.90	-20.10	159.96M	-45.78	2.39556G	-47.55	2.4835G	-41.61	2.48482G	-36.07	23.34531G	-38.26	1
2.43202G	9.90	-20.10	159.96M	-44.22	2.399G	-46.85	2.4835G	-45.38	2.49046G	-37.66	16.94249G	-37.78	2

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	60.07M	36.69	40.00	-3.31	Vertical

Mode 1

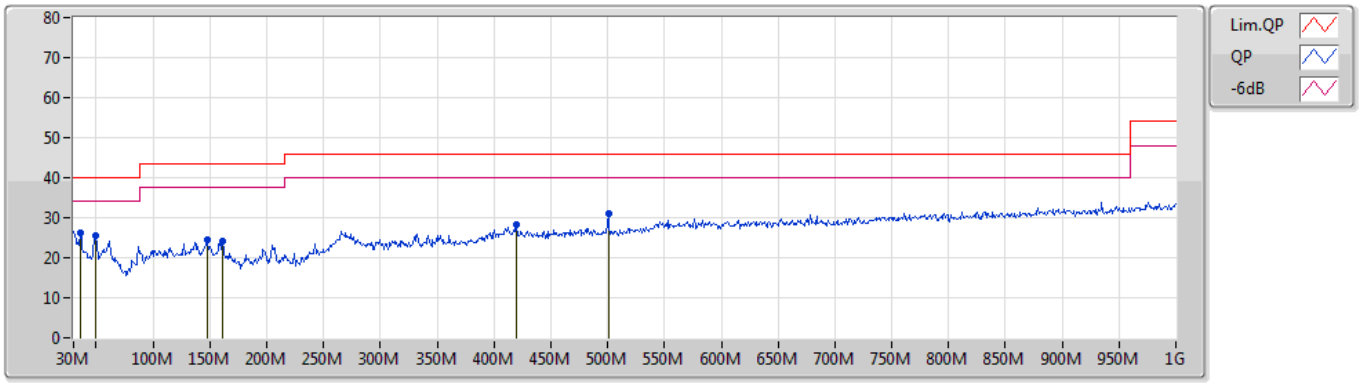
28/01/2021



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	36.79M	29.62	40.00	-10.38	-10.11	3	Vertical	92	2.00	-	39.73	20.81	0.54	31.46
PK	49.4M	36.25	40.00	-3.75	-16.29	3	Vertical	300	1.50	-	52.54	14.70	0.60	31.59
PK	60.07M	36.69	40.00	-3.31	-18.32	3	Vertical	0	1.00	"Worst"	55.01	12.69	0.80	31.81
PK	500.45M	30.38	46.00	-15.62	-6.52	3	Vertical	17	1.25	-	36.90	22.95	2.90	32.37
PK	730.34M	32.86	46.00	-13.14	-3.97	3	Vertical	174	1.00	-	36.83	24.82	3.56	32.35
PK	844.8M	32.59	46.00	-13.41	-2.86	3	Vertical	286	1.50	-	35.45	25.60	3.89	32.35

Mode 1

28/01/2021



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	35.82M	26.36	40.00	-13.64	-9.70	3	Horizontal	320	1.25	"Worst"	36.06	21.25	0.52	31.47
PK	49.4M	25.55	40.00	-14.45	-16.29	3	Horizontal	130	1.00	-	41.84	14.70	0.60	31.59
PK	147.37M	24.48	43.50	-19.02	-13.98	3	Horizontal	78	3.00	-	38.46	16.57	1.34	31.89
PK	160.95M	24.01	43.50	-19.49	-14.36	3	Horizontal	91	2.00	-	38.37	15.93	1.40	31.69
PK	419.94M	28.13	46.00	-17.87	-7.50	3	Horizontal	217	1.00	-	35.63	22.02	2.64	32.16
PK	500.45M	31.20	46.00	-14.80	-6.52	3	Horizontal	213	2.00	-	37.72	22.95	2.90	32.37

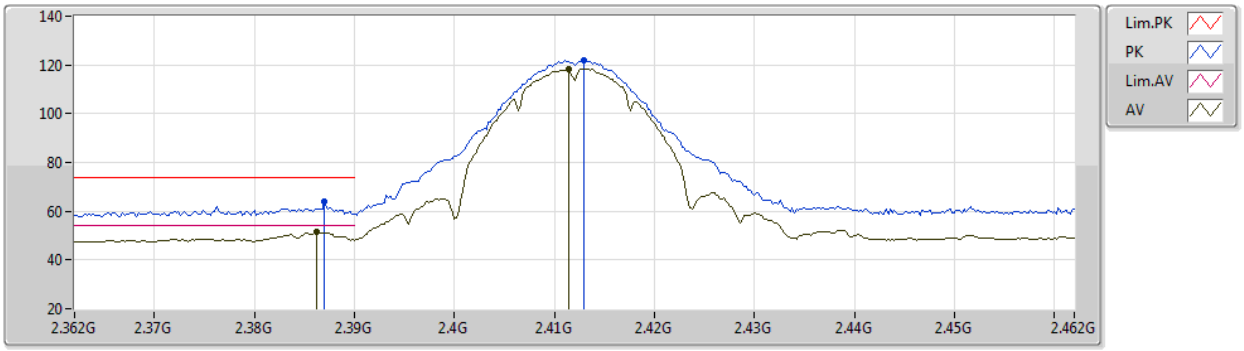
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	AV	2.39G	52.96	54.00	-1.04	3	Vertical	355	2.78	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

07/12/2020



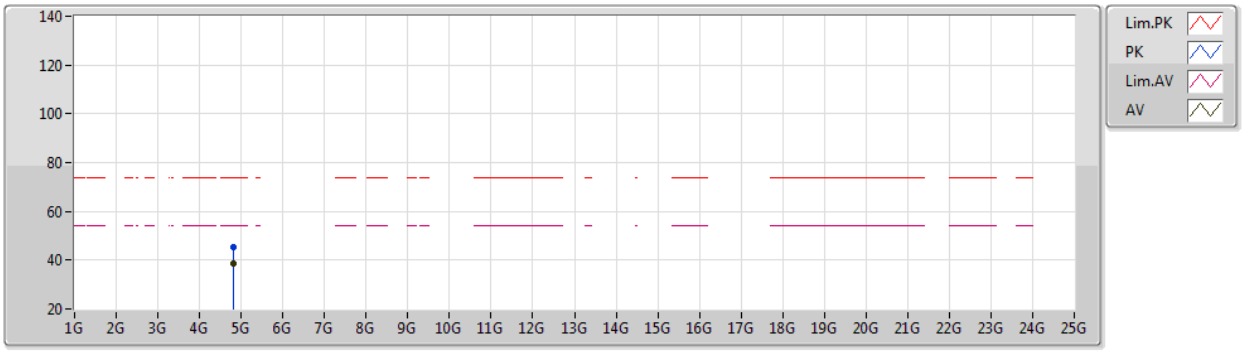
EUT Z_2TX
Setting 25.5
02-B-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.387G	63.97	74.00	-10.03	33.30	3	Vertical	120	1.87	-	28.26	2.41	-
AV	2.3862G	51.32	54.00	-2.68	20.65	3	Vertical	120	1.87	-	28.26	2.41	-
PK	2.413G	122.01	Inf	-Inf	91.26	3	Vertical	120	1.87	-	28.34	2.41	-
AV	2.4114G	118.40	Inf	-Inf	87.66	3	Vertical	120	1.87	-	28.33	2.41	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

07/12/2020



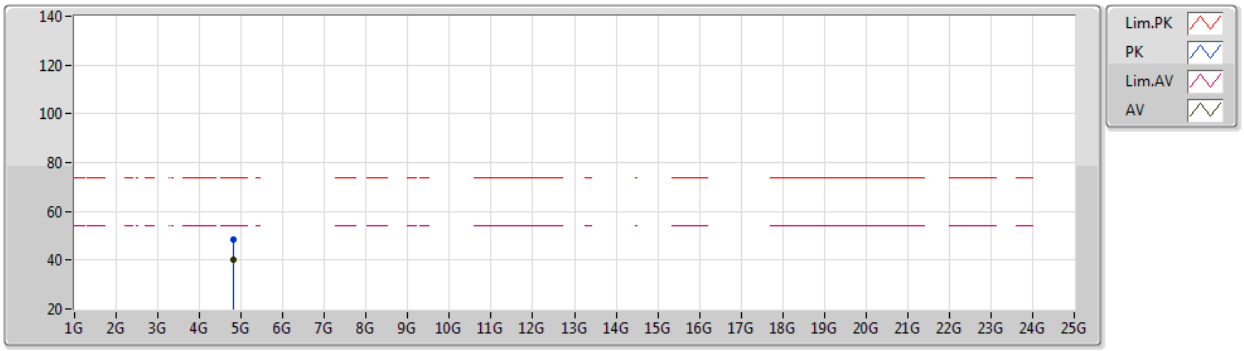
EUT Z_2TX
Setting 25.5
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82378G	45.28	74.00	-28.72	45.06	3	Vertical	4	1.12	-	32.24	2.70	34.72
AV	4.82399G	38.87	54.00	-15.13	38.65	3	Vertical	4	1.12	-	32.24	2.70	34.72

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

07/12/2020



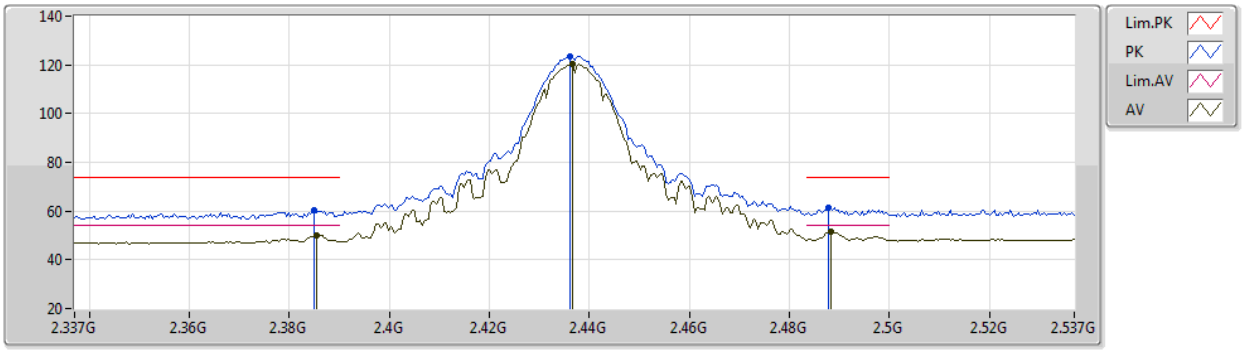
EUT Z_2TX
Setting 25.5
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82388G	48.49	74.00	-25.51	42.67	3	Horizontal	38	1.00	-	32.90	4.70	31.78
AV	4.82398G	40.09	54.00	-13.91	34.27	3	Horizontal	38	1.00	-	32.90	4.70	31.78

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

07/12/2020



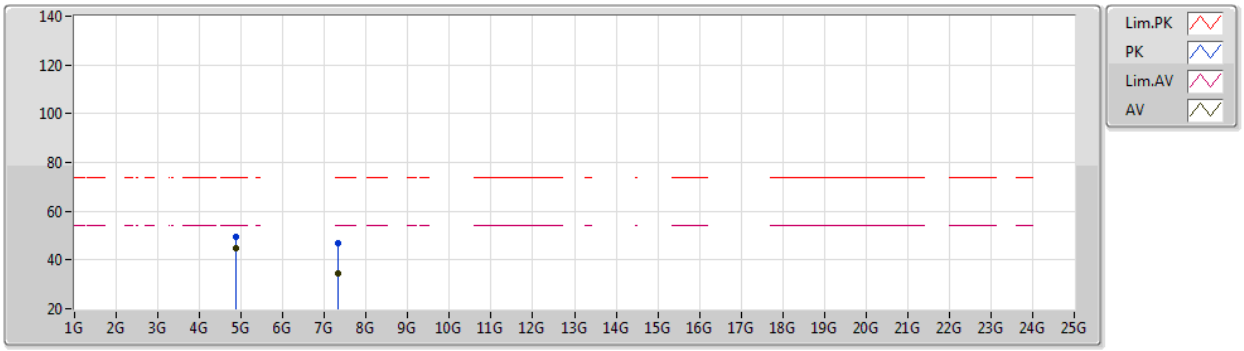
EUT Z_2TX
Setting 27
02-B-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.385G	60.31	74.00	-13.69	29.64	3	Vertical	65	2.57	-	28.26	2.41	-
AV	2.3854G	50.14	54.00	-3.86	19.47	3	Vertical	65	2.57	-	28.26	2.41	-
PK	2.4362G	123.70	Inf	-Inf	92.87	3	Vertical	65	2.57	-	28.41	2.42	-
AV	2.4366G	120.42	Inf	-Inf	89.59	3	Vertical	65	2.57	-	28.41	2.42	-
PK	2.4878G	61.56	74.00	-12.44	30.56	3	Vertical	65	2.57	-	28.56	2.44	-
AV	2.4882G	51.43	54.00	-2.57	20.43	3	Vertical	65	2.57	-	28.56	2.44	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

07/12/2020



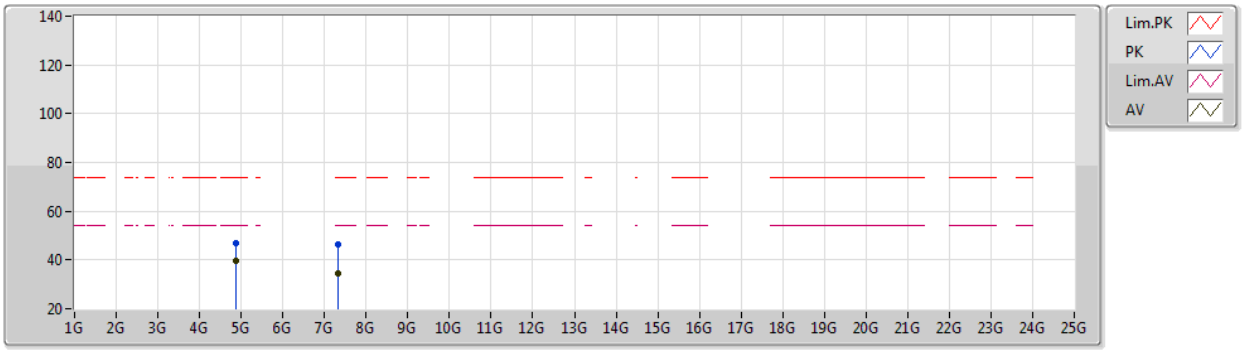
EUT Z_2TX
Setting 27
02-B-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87405G	49.50	74.00	-24.50	43.50	3	Vertical	0	2.43	-	33.10	4.70	31.80
AV	4.87399G	44.79	54.00	-9.21	38.79	3	Vertical	0	2.43	-	33.10	4.70	31.80
PK	7.3319G	46.86	74.00	-27.14	37.13	3	Vertical	120	1.20	-	36.40	5.77	32.44
AV	7.3216G	34.72	54.00	-19.28	25.00	3	Vertical	120	1.20	-	36.40	5.76	32.44

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

07/12/2020



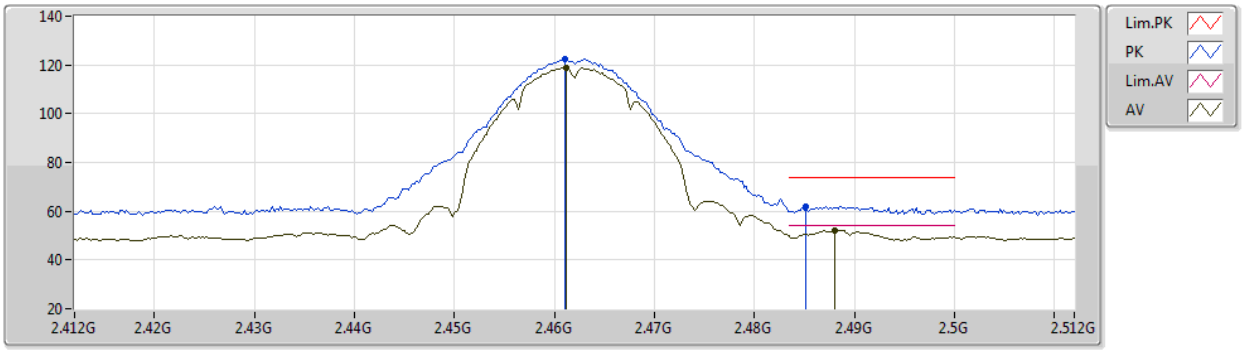
EUT Z_2TX
Setting 27
02-B-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87387G	46.99	74.00	-27.01	40.99	3	Horizontal	319	2.50	-	33.10	4.70	31.80
AV	4.87395G	39.91	54.00	-14.09	33.91	3	Horizontal	319	2.50	-	33.10	4.70	31.80
PK	7.31684G	46.61	74.00	-27.39	36.89	3	Horizontal	313	2.11	-	36.40	5.76	32.44
AV	7.31456G	34.23	54.00	-19.77	24.50	3	Horizontal	313	2.11	-	36.40	5.76	32.43

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

07/12/2020



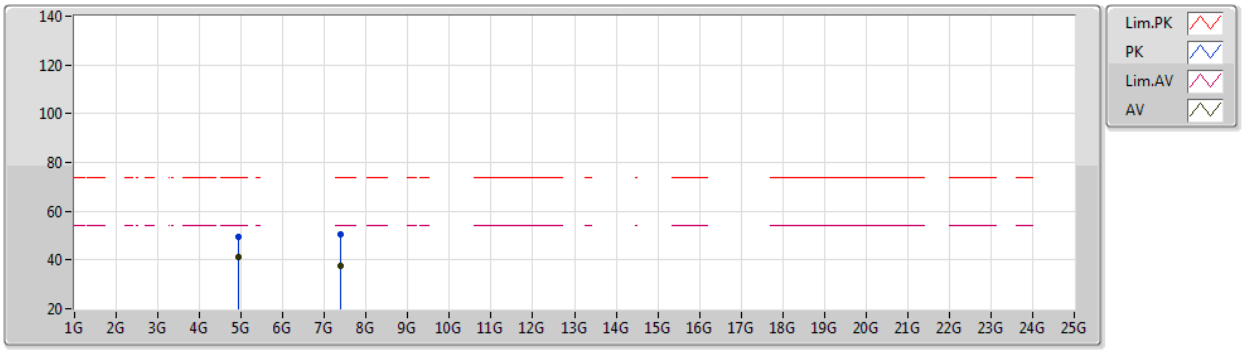
EUT Z_2TX
Setting 25
02-B-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.461G	122.26	Inf	-Inf	91.35	3	Vertical	115	1.17	-	28.48	2.43	-
AV	2.4612G	118.76	Inf	-Inf	87.85	3	Vertical	115	1.17	-	28.48	2.43	-
PK	2.4852G	61.88	74.00	-12.12	30.88	3	Vertical	115	1.17	-	28.56	2.44	-
AV	2.488G	52.17	54.00	-1.83	21.17	3	Vertical	115	1.17	-	28.56	2.44	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

07/12/2020



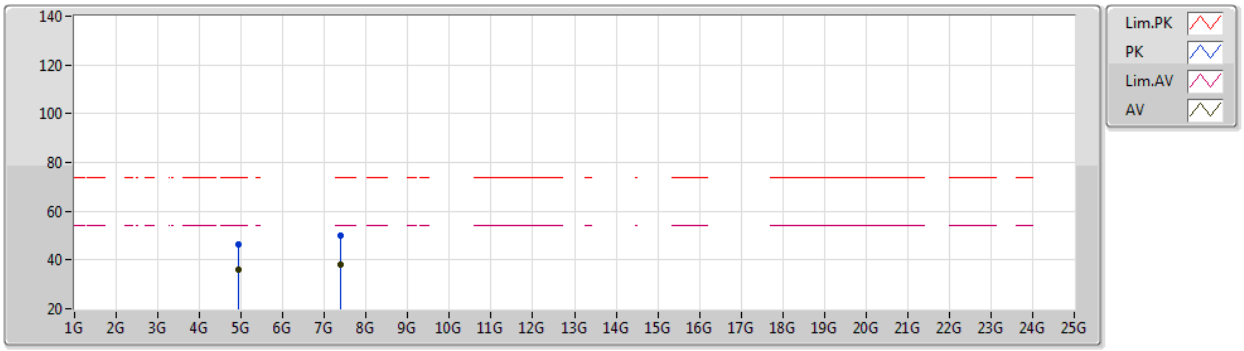
EUT Z_2TX
Setting 25
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92396G	49.26	74.00	-24.74	43.17	3	Vertical	1	1.86	-	33.20	4.70	31.81
AV	4.92397G	41.22	54.00	-12.78	35.13	3	Vertical	1	1.86	-	33.20	4.70	31.81
PK	7.39662G	50.54	74.00	-23.46	40.79	3	Vertical	0	1.78	-	36.41	5.80	32.46
AV	7.40034G	37.82	54.00	-16.18	28.08	3	Vertical	0	1.78	-	36.40	5.80	32.46

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

07/12/2020



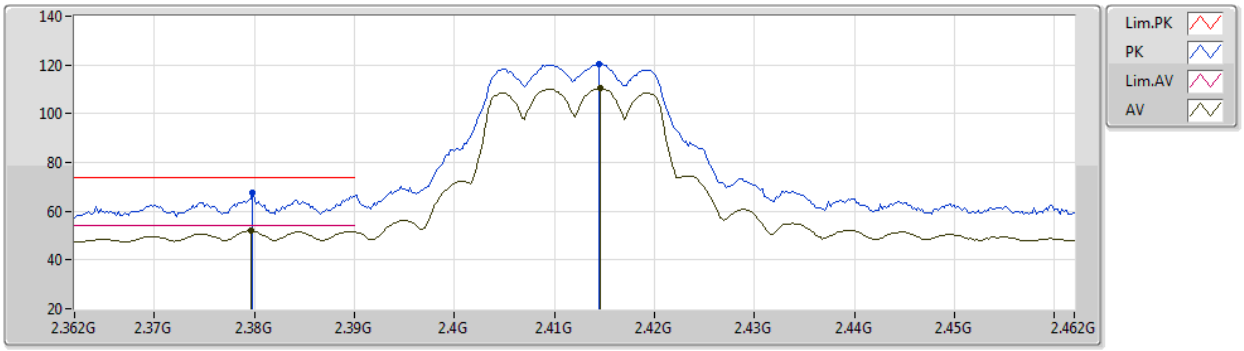
EUT Z_2TX
Setting 25
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92372G	46.54	74.00	-27.46	40.45	3	Horizontal	183	1.50	-	33.20	4.70	31.81
AV	4.92402G	36.02	54.00	-17.98	29.93	3	Horizontal	183	1.50	-	33.20	4.70	31.81
PK	7.3764G	49.78	74.00	-24.22	39.99	3	Horizontal	203	2.62	-	36.45	5.79	32.45
AV	7.398G	37.94	54.00	-16.06	28.20	3	Horizontal	203	2.62	-	36.40	5.80	32.46

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

07/12/2020



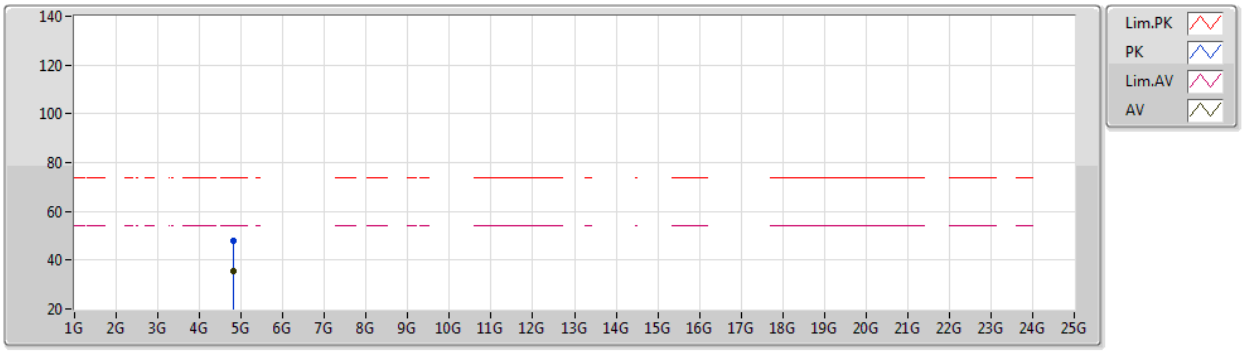
EUT Z_2TX
Setting 23.5
02-B-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3798G	67.67	74.00	-6.33	37.02	3	Vertical	161	1.80	-	28.24	2.41	-
AV	2.3796G	51.92	54.00	-2.08	21.27	3	Vertical	161	1.80	-	28.24	2.41	-
PK	2.4144G	120.21	Inf	-Inf	89.46	3	Vertical	161	1.80	-	28.34	2.41	-
AV	2.4146G	110.53	Inf	-Inf	79.78	3	Vertical	161	1.80	-	28.34	2.41	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

07/12/2020



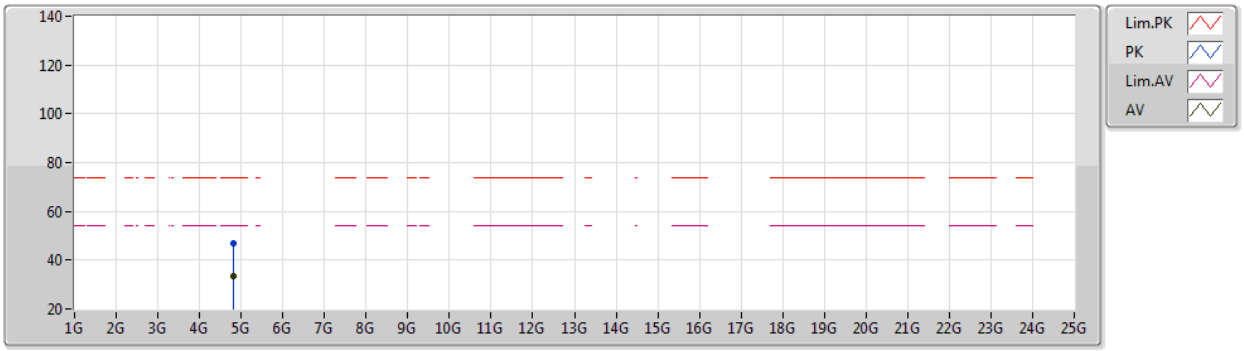
EUT Z_2TX
Setting 23.5
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82476G	47.97	74.00	-26.03	42.15	3	Vertical	10	2.58	-	32.90	4.70	31.78
AV	4.82413G	35.37	54.00	-18.63	29.55	3	Vertical	7	2.58	-	32.90	4.70	31.78

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

07/12/2020



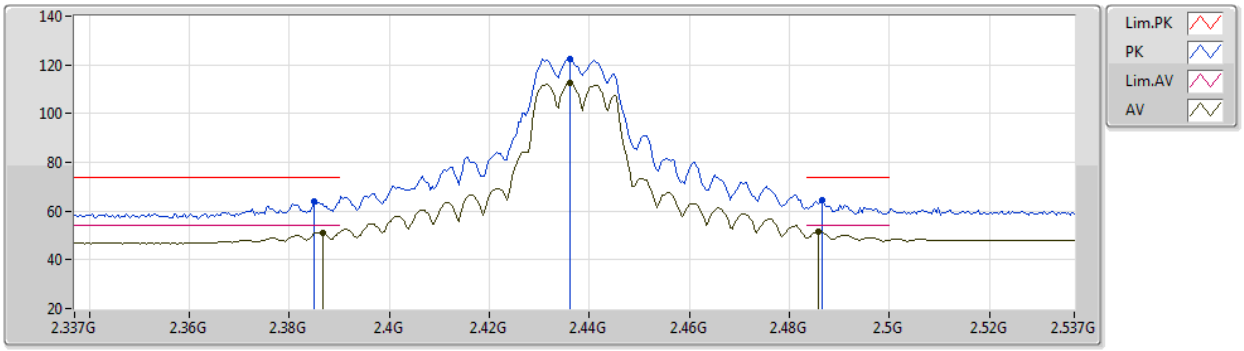
EUT Z_2TX
Setting 23.5
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82202G	47.05	74.00	-26.95	41.24	3	Horizontal	9	1.13	-	32.89	4.70	31.78
AV	4.82504G	33.46	54.00	-20.54	27.64	3	Horizontal	9	1.13	-	32.90	4.70	31.78

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

07/12/2020



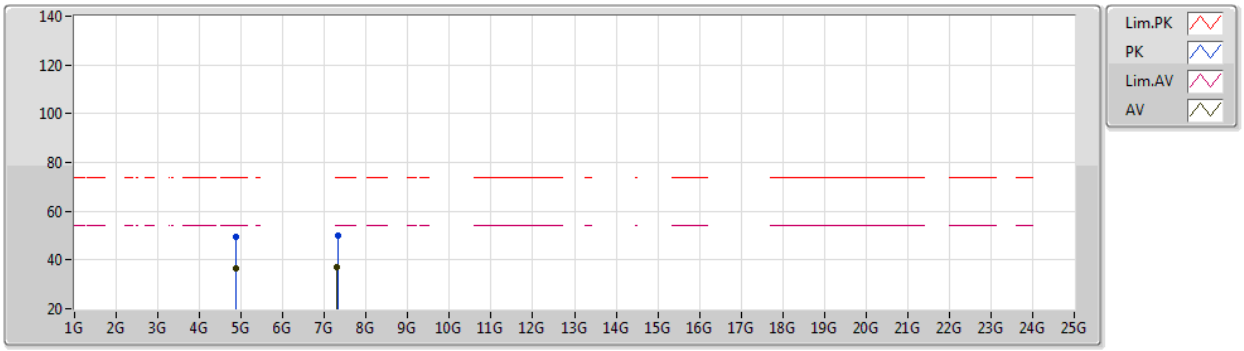
EUT Z_2TX
Setting 24.5
02-B-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.385G	63.92	74.00	-10.08	33.25	3	Vertical	56	2.62	-	28.26	2.41	-
AV	2.3866G	51.28	54.00	-2.72	20.61	3	Vertical	56	2.62	-	28.26	2.41	-
PK	2.4362G	122.42	Inf	-Inf	91.59	3	Vertical	56	2.62	-	28.41	2.42	-
AV	2.4362G	112.67	Inf	-Inf	81.84	3	Vertical	56	2.62	-	28.41	2.42	-
PK	2.4866G	64.66	74.00	-9.34	33.66	3	Vertical	56	2.62	-	28.56	2.44	-
AV	2.4858G	51.59	54.00	-2.41	20.59	3	Vertical	56	2.62	-	28.56	2.44	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

07/12/2020



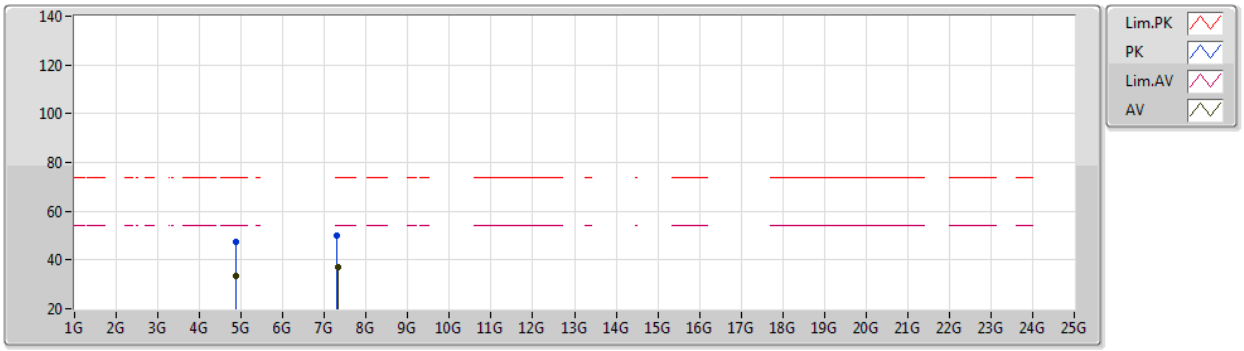
EUT Z_2TX
Setting 24.5
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87385G	49.48	74.00	-24.52	43.47	3	Vertical	7	2.58	-	33.10	4.70	31.79
AV	4.87401G	36.59	54.00	-17.41	30.58	3	Vertical	7	2.58	-	33.10	4.70	31.79
PK	7.3112G	50.23	74.00	-23.77	40.47	3	Vertical	59	1.86	-	36.42	5.76	32.42
AV	7.3068G	37.12	54.00	-16.88	27.38	3	Vertical	59	1.86	-	36.41	5.75	32.42

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

07/12/2020



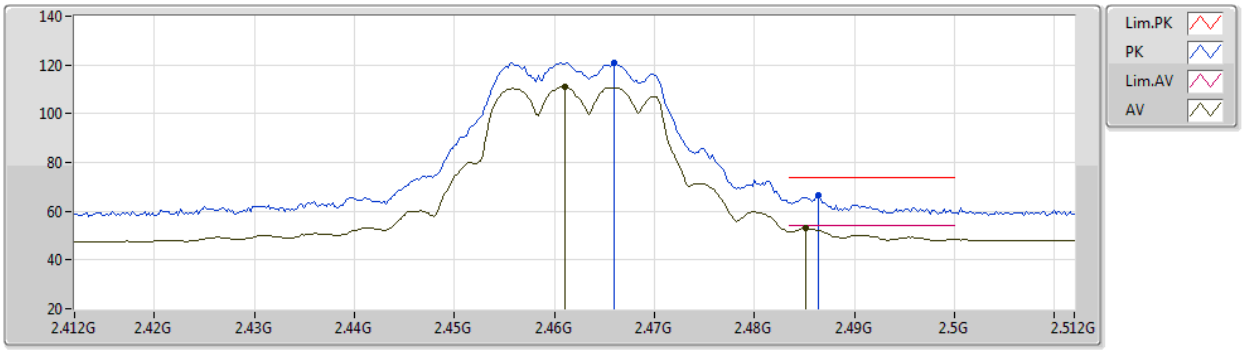
EUT Z_2TX
Setting 24.5
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87271G	47.31	74.00	-26.69	41.31	3	Horizontal	59	1.82	-	33.09	4.70	31.79
AV	4.87484G	33.62	54.00	-20.38	27.61	3	Horizontal	59	1.82	-	33.10	4.70	31.79
PK	7.30404G	50.07	74.00	-23.93	40.33	3	Horizontal	106	1.35	-	36.41	5.75	32.42
AV	7.31802G	36.98	54.00	-17.02	27.21	3	Horizontal	106	1.35	-	36.44	5.76	32.43

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

07/12/2020



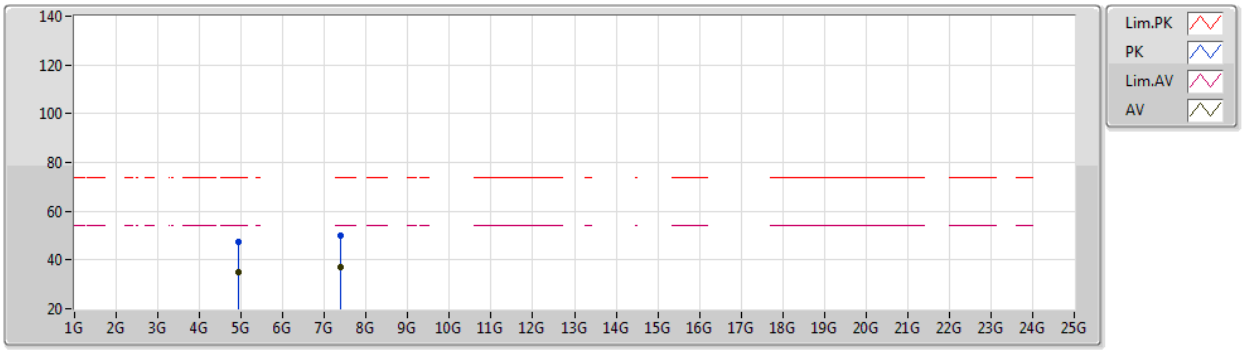
EUT Z_2TX
Setting 22.5
02-B-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.466G	120.86	Inf	-Inf	89.93	3	Vertical	104	2.11	-	28.50	2.43	-
AV	2.461G	111.14	Inf	-Inf	80.23	3	Vertical	104	2.11	-	28.48	2.43	-
PK	2.4864G	66.51	74.00	-7.49	35.51	3	Vertical	104	2.11	-	28.56	2.44	-
AV	2.4852G	52.93	54.00	-1.07	21.93	3	Vertical	104	2.11	-	28.56	2.44	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

07/12/2020



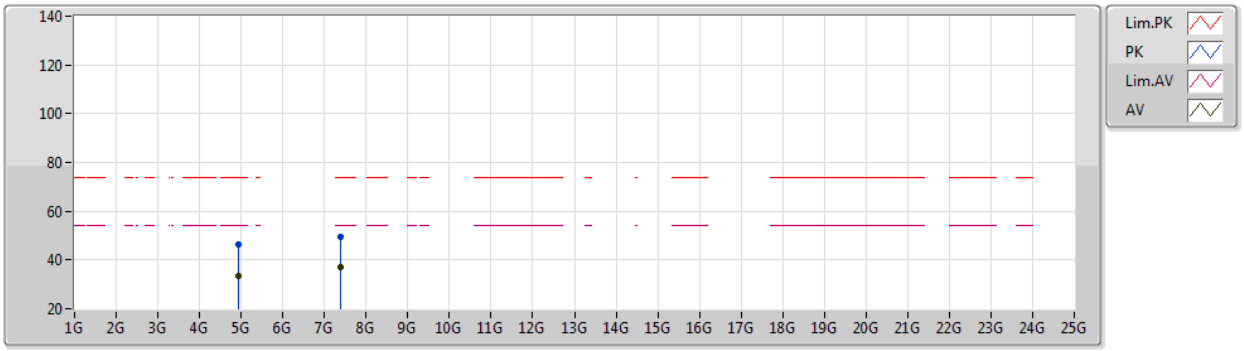
EUT Z_2TX
Setting 22.5
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92423G	47.20	74.00	-26.80	41.11	3	Vertical	16	2.16	-	33.20	4.70	31.81
AV	4.92405G	35.21	54.00	-18.79	29.12	3	Vertical	16	2.16	-	33.20	4.70	31.81
PK	7.4004G	50.10	74.00	-23.90	40.36	3	Vertical	157	2.33	-	36.40	5.80	32.46
AV	7.39758G	37.09	54.00	-16.91	27.35	3	Vertical	157	2.33	-	36.40	5.80	32.46

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

07/12/2020



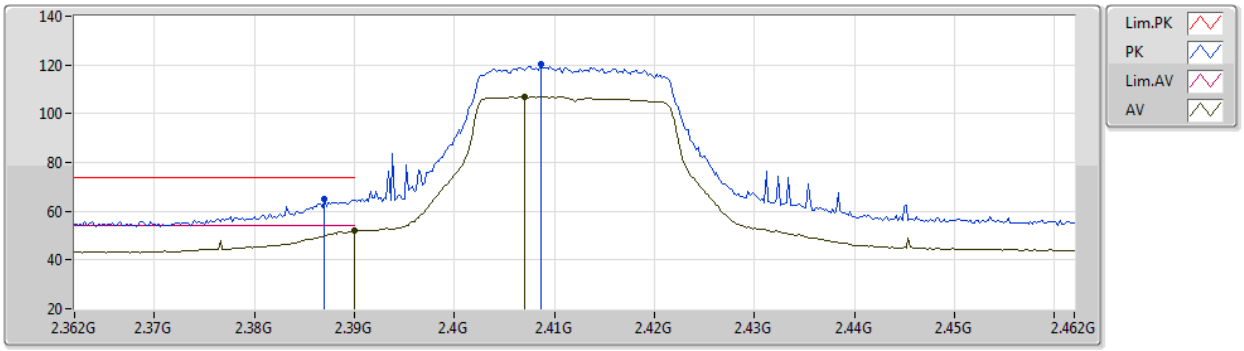
EUT Z_2TX
Setting 22.5
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92592G	46.33	74.00	-27.67	40.24	3	Horizontal	121	2.07	-	33.20	4.70	31.81
AV	4.92407G	33.43	54.00	-20.57	27.34	3	Horizontal	121	2.07	-	33.20	4.70	31.81
PK	7.38642G	49.62	74.00	-24.38	39.85	3	Horizontal	289	1.89	-	36.43	5.79	32.45
AV	7.39974G	37.15	54.00	-16.85	27.41	3	Horizontal	289	1.89	-	36.40	5.80	32.46

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

07/12/2020



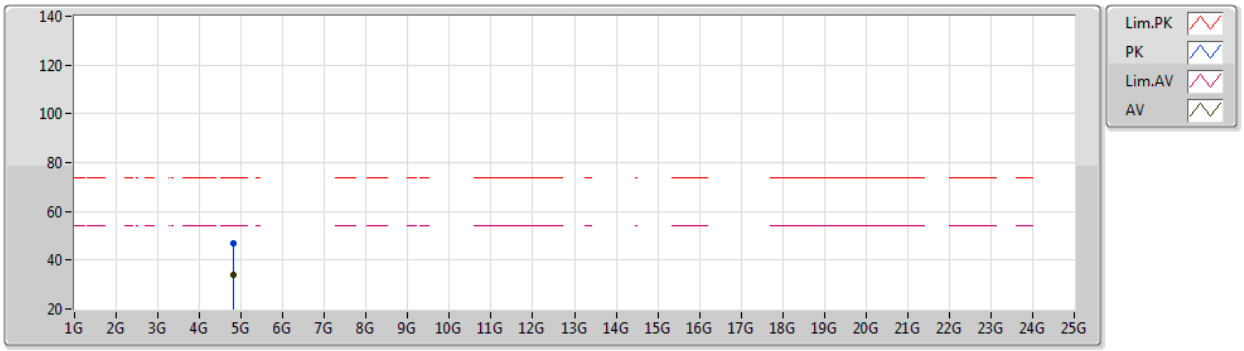
EUT Z_2TX
Setting 25
01-A-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.387G	65.16	74.00	-8.84	35.60	3	Vertical	235	2.66	-	27.37	2.19	-
AV	2.39G	51.89	54.00	-2.11	22.32	3	Vertical	235	2.66	-	27.38	2.19	-
PK	2.4086G	120.10	Inf	-Inf	90.47	3	Vertical	235	2.66	-	27.42	2.21	-
AV	2.407G	106.98	Inf	-Inf	77.36	3	Vertical	235	2.66	-	27.41	2.21	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

07/12/2020



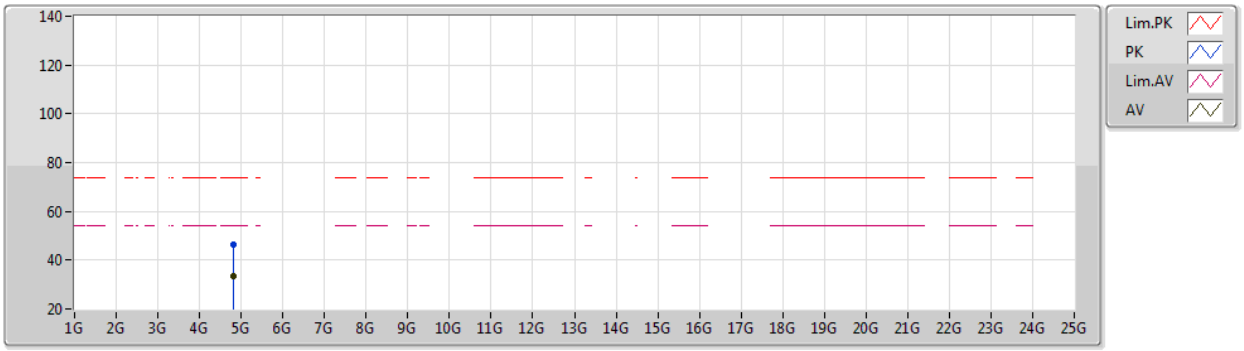
EUT Z_2TX
Setting 25
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82404G	47.05	74.00	-26.95	41.23	3	Vertical	199	2.38	-	32.90	4.70	31.78
AV	4.82412G	33.74	54.00	-20.26	27.92	3	Vertical	199	2.38	-	32.90	4.70	31.78

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

07/12/2020



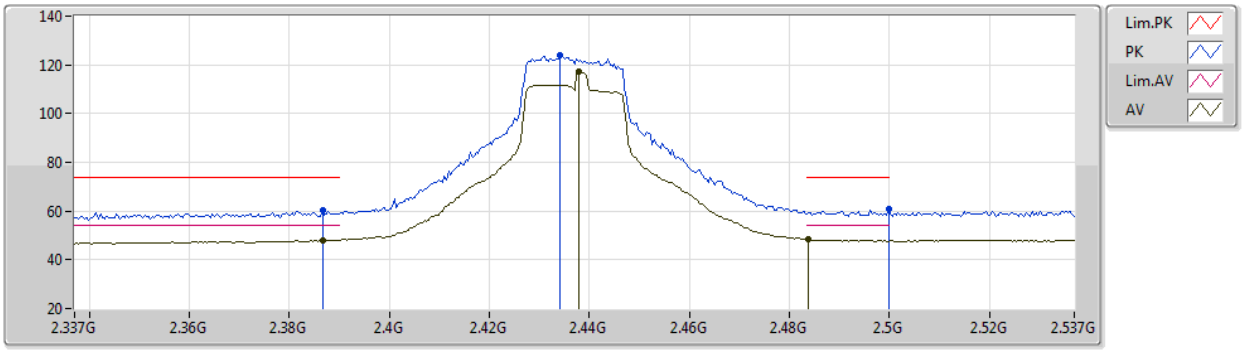
EUT Z_2TX
Setting 25
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8237G	46.54	74.00	-27.46	40.73	3	Horizontal	186	2.73	-	32.89	4.70	31.78
AV	4.82484G	33.63	54.00	-20.37	27.81	3	Horizontal	186	2.73	-	32.90	4.70	31.78

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

07/12/2020



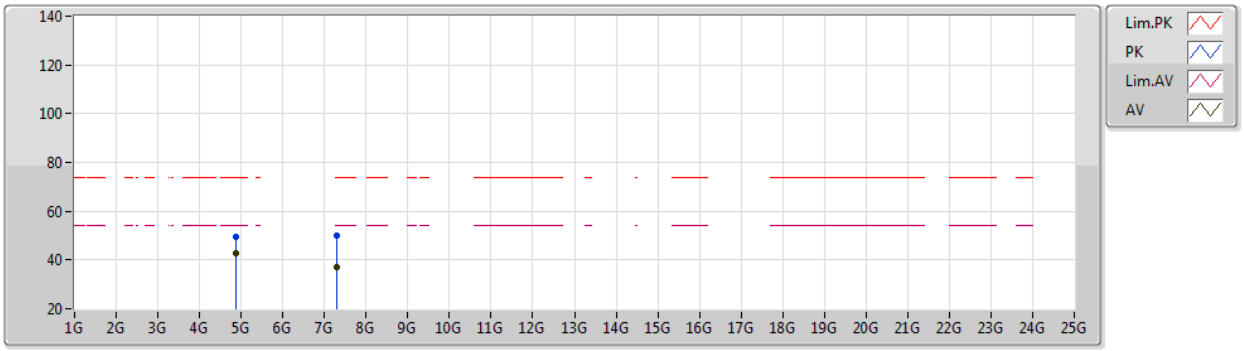
EUT Z_2TX
Setting 27
02-B-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3866G	60.46	74.00	-13.54	29.79	3	Vertical	117	2.34	-	28.26	2.41	-
AV	2.3866G	48.03	54.00	-5.97	17.36	3	Vertical	117	2.34	-	28.26	2.41	-
PK	2.4342G	123.73	Inf	-Inf	92.91	3	Vertical	117	2.34	-	28.40	2.42	-
AV	2.4378G	117.48	Inf	-Inf	86.65	3	Vertical	117	2.34	-	28.41	2.42	-
PK	2.4998G	60.72	74.00	-13.28	29.67	3	Vertical	117	2.34	-	28.60	2.45	-
AV	2.4838G	48.41	54.00	-5.59	17.42	3	Vertical	117	2.34	-	28.55	2.44	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

07/12/2020



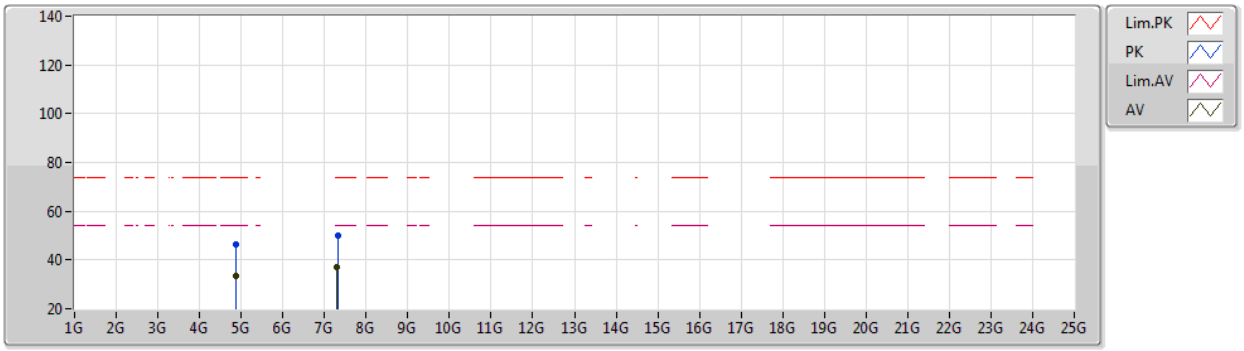
EUT Z_2TX
Setting 27
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87392G	49.28	74.00	-24.72	43.27	3	Vertical	10	1.02	-	33.10	4.70	31.79
AV	4.87398G	42.99	54.00	-11.01	36.98	3	Vertical	10	1.02	-	33.10	4.70	31.79
PK	7.3023G	50.06	74.00	-23.94	40.33	3	Vertical	140	1.77	-	36.40	5.75	32.42
AV	7.29774G	37.04	54.00	-16.96	27.32	3	Vertical	140	1.77	-	36.39	5.75	32.42

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

07/12/2020



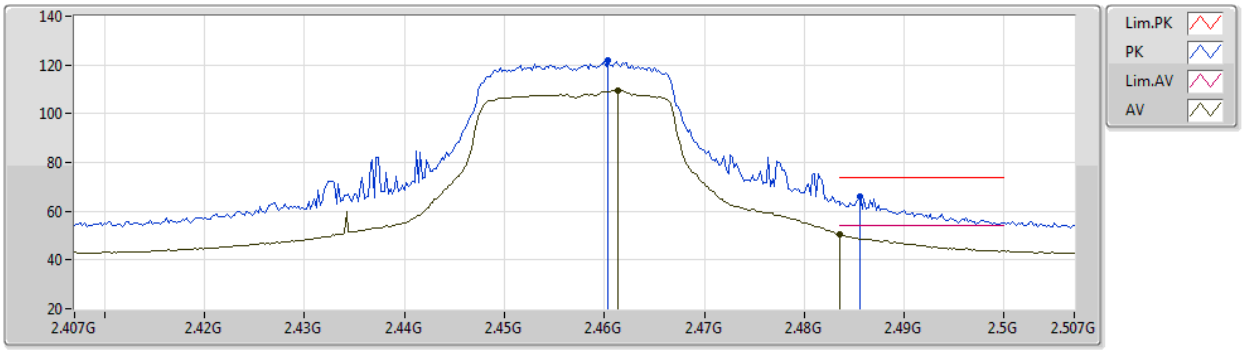
EUT Z_2TX
Setting 27
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87388G	46.42	74.00	-27.58	40.41	3	Horizontal	182	1.56	-	33.10	4.70	31.79
AV	4.8756G	33.43	54.00	-20.57	27.43	3	Horizontal	182	1.56	-	33.10	4.70	31.80
PK	7.31508G	50.17	74.00	-23.83	40.41	3	Horizontal	58	2.63	-	36.43	5.76	32.43
AV	7.29708G	37.23	54.00	-16.77	27.51	3	Horizontal	58	2.63	-	36.39	5.75	32.42

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

07/12/2020



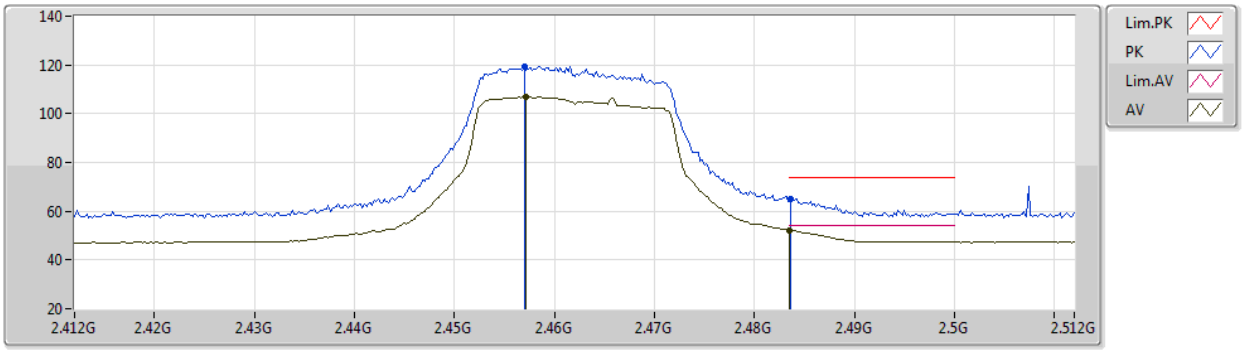
EUT Z_2TX
Setting 25
01-A-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4604G	121.92	Inf	-Inf	92.10	3	Vertical	118	1.92	-	27.56	2.26	-
AV	2.4614G	109.58	Inf	-Inf	79.75	3	Vertical	118	1.92	-	27.57	2.26	-
PK	2.4856G	65.88	74.00	-8.12	35.88	3	Vertical	118	1.92	-	27.71	2.29	-
AV	2.4835G	50.39	54.00	-3.61	20.41	3	Vertical	118	1.92	-	27.70	2.28	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

07/12/2020



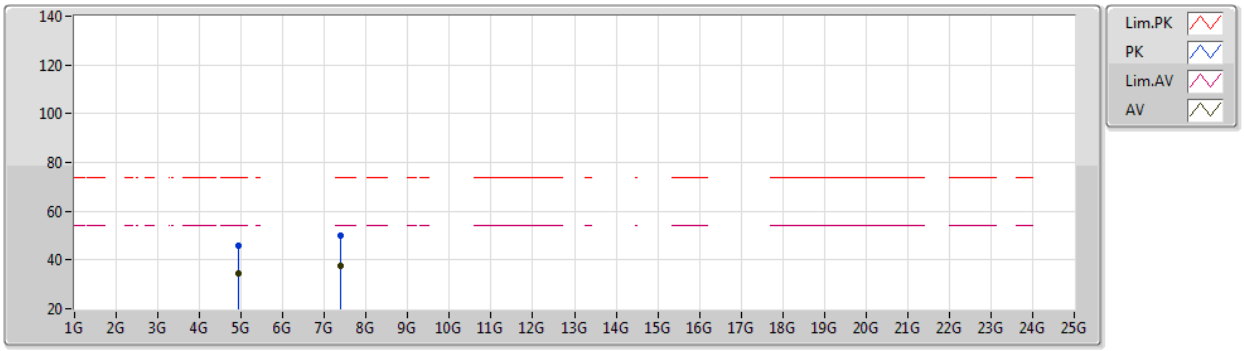
EUT Z_2TX
Setting 23
02-B-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.457G	119.47	Inf	-Inf	88.57	3	Vertical	0	1.80	-	28.47	2.43	-
AV	2.4572G	106.91	Inf	-Inf	76.01	3	Vertical	0	1.80	-	28.47	2.43	-
PK	2.4836G	65.07	74.00	-8.93	34.08	3	Vertical	0	1.80	-	28.55	2.44	-
AV	2.4835G	52.21	54.00	-1.79	21.22	3	Vertical	0	1.80	-	28.55	2.44	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

07/12/2020



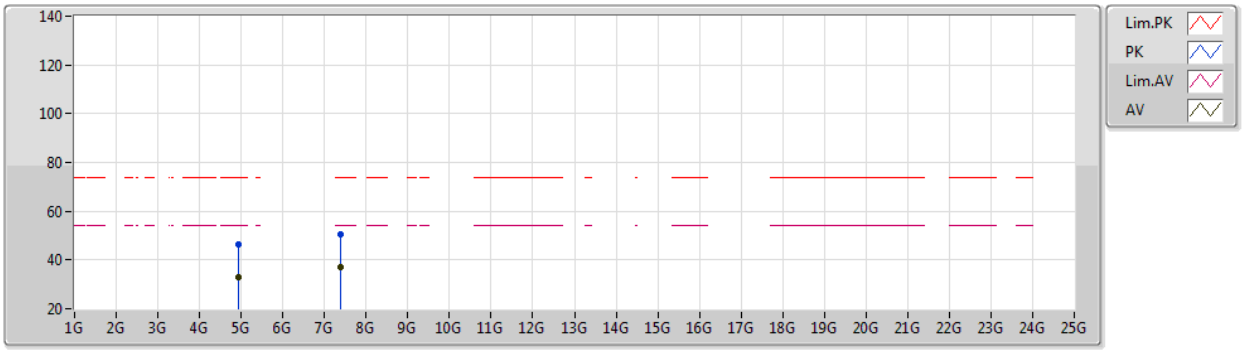
EUT Z_2TX
Setting 23
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92396G	46.08	74.00	-27.92	39.99	3	Vertical	61	2.46	-	33.20	4.70	31.81
AV	4.92406G	34.31	54.00	-19.69	28.22	3	Vertical	61	2.46	-	33.20	4.70	31.81
PK	7.37436G	50.01	74.00	-23.99	40.22	3	Vertical	158	1.17	-	36.45	5.79	32.45
AV	7.39638G	37.37	54.00	-16.63	27.62	3	Vertical	158	1.17	-	36.41	5.80	32.46

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

07/12/2020



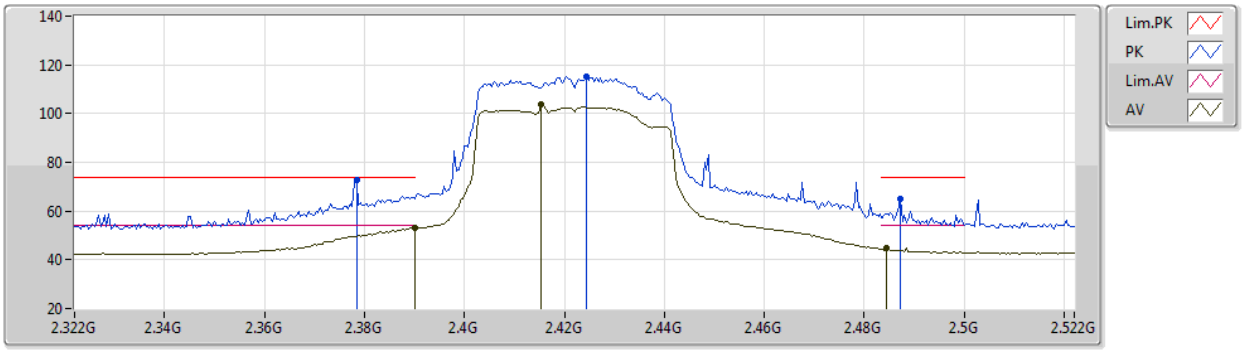
EUT Z_2TX
Setting 23
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92196G	46.37	74.00	-27.63	40.28	3	Horizontal	327	1.91	-	33.20	4.70	31.81
AV	4.9249G	33.06	54.00	-20.94	26.97	3	Horizontal	327	1.91	-	33.20	4.70	31.81
PK	7.37718G	50.27	74.00	-23.73	40.48	3	Horizontal	217	1.93	-	36.45	5.79	32.45
AV	7.39806G	37.21	54.00	-16.79	27.47	3	Horizontal	217	1.93	-	36.40	5.80	32.46

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

07/12/2020



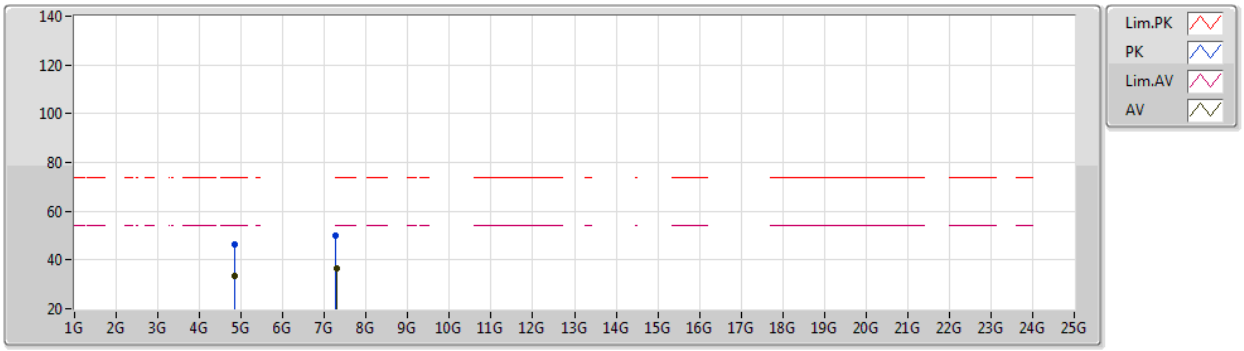
EUT Z_2TX
Setting 23
01-A-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3784G	72.64	74.00	-1.36	43.10	3	Vertical	355	2.78	-	27.36	2.18	-
AV	2.39G	52.96	54.00	-1.04	23.39	3	Vertical	355	2.78	-	27.38	2.19	-
PK	2.4244G	115.03	Inf	-Inf	85.36	3	Vertical	355	2.78	-	27.45	2.22	-
AV	2.4152G	103.98	Inf	-Inf	74.33	3	Vertical	355	2.78	-	27.43	2.22	-
PK	2.4872G	65.08	74.00	-8.92	35.07	3	Vertical	355	2.78	-	27.72	2.29	-
AV	2.4844G	44.88	54.00	-9.12	14.89	3	Vertical	355	2.78	-	27.71	2.28	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

07/12/2020



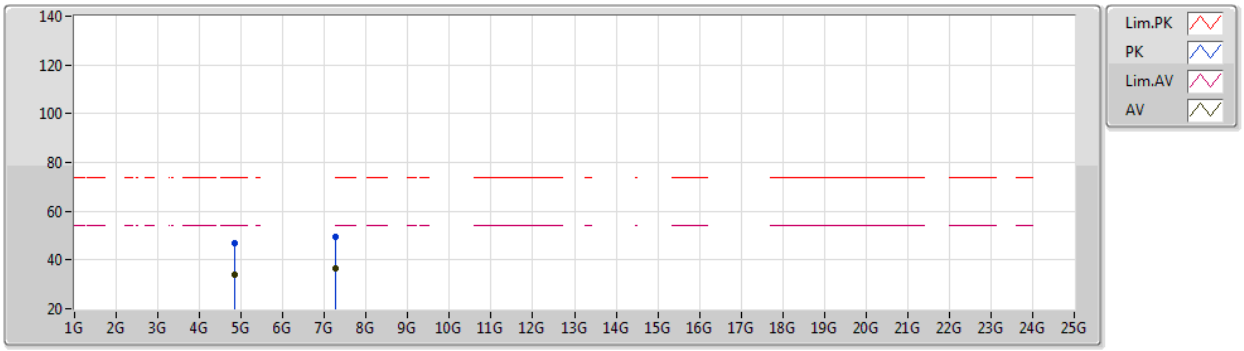
EUT Z_2TX
Setting 23
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.83188G	46.54	74.00	-27.46	40.69	3	Vertical	258	1.28	-	32.93	4.70	31.78
AV	4.84796G	33.65	54.00	-20.35	27.75	3	Vertical	258	1.28	-	32.99	4.70	31.79
PK	7.26606G	49.81	74.00	-24.19	40.23	3	Vertical	118	1.49	-	36.26	5.73	32.41
AV	7.28034G	36.75	54.00	-17.25	27.10	3	Vertical	118	1.49	-	36.32	5.74	32.41

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

07/12/2020



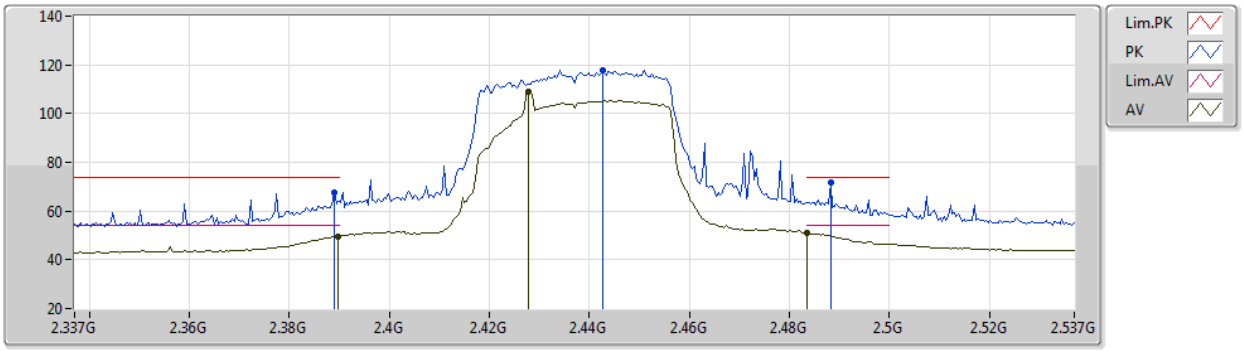
EUT Z_2TX
Setting 23
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8536G	46.89	74.00	-27.11	40.97	3	Horizontal	266	2.06	-	33.01	4.70	31.79
AV	4.8548G	33.72	54.00	-20.28	27.79	3	Horizontal	266	2.06	-	33.02	4.70	31.79
PK	7.27434G	49.34	74.00	-24.66	39.71	3	Horizontal	196	1.06	-	36.30	5.74	32.41
AV	7.27764G	36.78	54.00	-17.22	27.14	3	Horizontal	196	1.06	-	36.31	5.74	32.41

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

07/12/2020



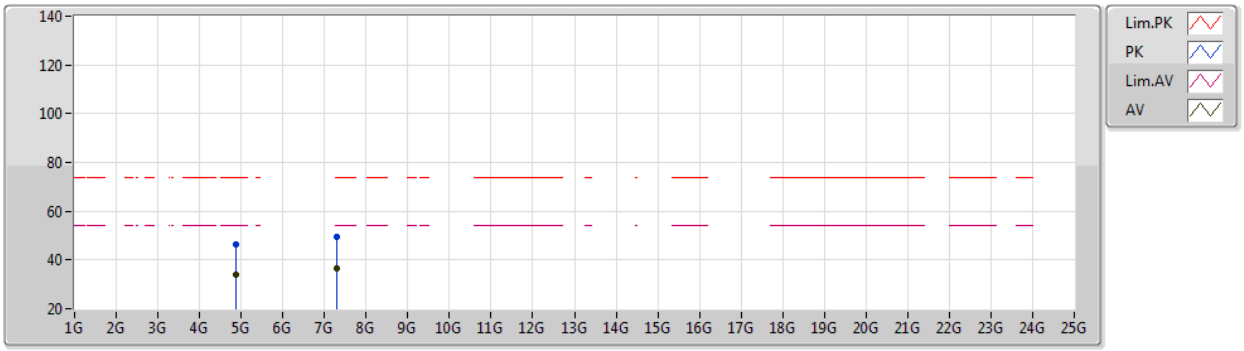
EUT Z_2TX
Setting 25
01-A-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.389G	67.40	74.00	-6.60	37.83	3	Vertical	295	2.43	-	27.38	2.19	-
AV	2.3898G	49.55	54.00	-4.45	19.98	3	Vertical	295	2.43	-	27.38	2.19	-
PK	2.4426G	117.81	Inf	-Inf	88.08	3	Vertical	295	2.43	-	27.49	2.24	-
AV	2.4278G	108.73	Inf	-Inf	79.04	3	Vertical	295	2.43	-	27.46	2.23	-
PK	2.4882G	71.93	74.00	-2.07	41.91	3	Vertical	295	2.43	-	27.73	2.29	-
AV	2.4835G	50.93	54.00	-3.07	20.95	3	Vertical	295	2.43	-	27.70	2.28	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

07/12/2020



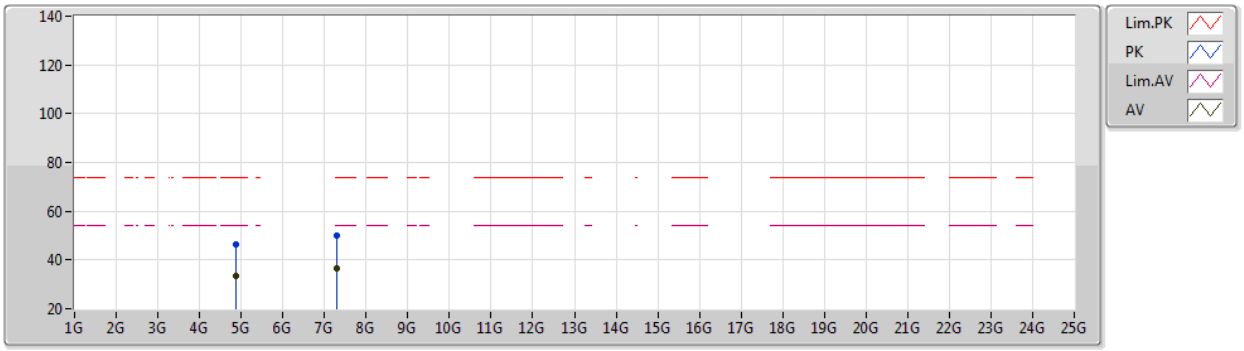
EUT Z_2TX
Setting 25
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87286G	46.50	74.00	-27.50	40.50	3	Vertical	206	1.65	-	33.09	4.70	31.79
AV	4.85906G	33.72	54.00	-20.28	27.77	3	Vertical	206	1.65	-	33.04	4.70	31.79
PK	7.30044G	49.47	74.00	-24.53	39.74	3	Vertical	230	1.35	-	36.40	5.75	32.42
AV	7.30626G	36.79	54.00	-17.21	27.05	3	Vertical	230	1.35	-	36.41	5.75	32.42

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

07/12/2020



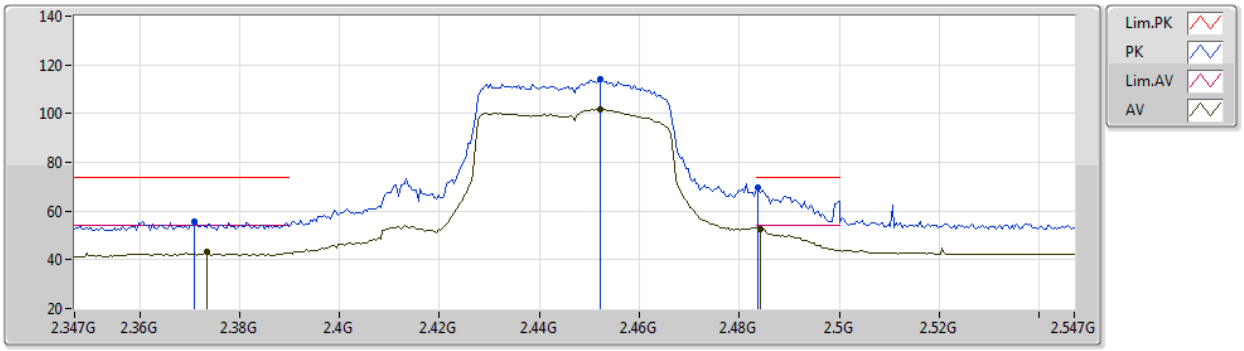
EUT Z_2TX
Setting 25
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.86008G	46.58	74.00	-27.42	40.63	3	Horizontal	111	2.80	-	33.04	4.70	31.79
AV	4.86218G	33.60	54.00	-20.40	27.64	3	Horizontal	111	2.80	-	33.05	4.70	31.79
PK	7.30086G	50.17	74.00	-23.83	40.44	3	Horizontal	134	2.28	-	36.40	5.75	32.42
AV	7.2981G	36.63	54.00	-17.37	26.91	3	Horizontal	134	2.28	-	36.39	5.75	32.42

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2447MHz_TX

07/12/2020



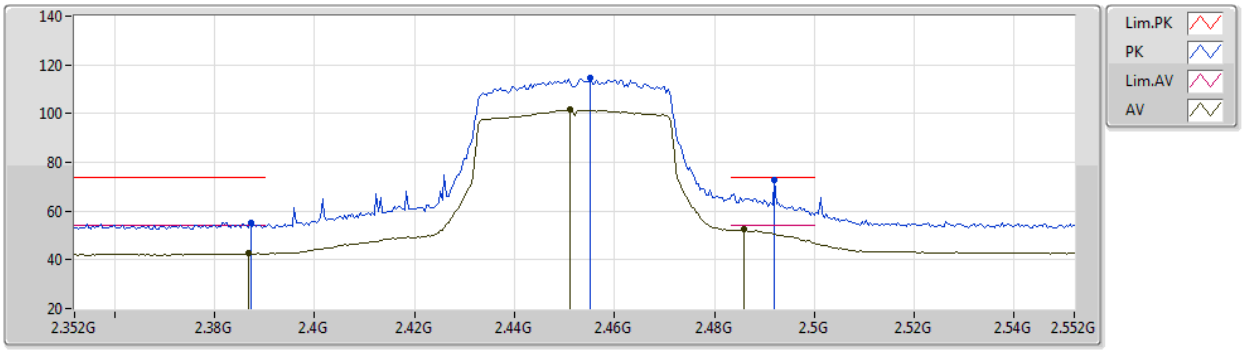
EUT Z_2TX
Setting 21
01-A-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.371G	55.57	74.00	-18.43	26.06	3	Vertical	110	2.34	-	27.34	2.17	-
AV	2.3734G	43.32	54.00	-10.68	13.80	3	Vertical	110	2.34	-	27.35	2.17	-
PK	2.4522G	113.95	Inf	-Inf	84.19	3	Vertical	110	2.34	-	27.51	2.25	-
AV	2.4522G	101.72	Inf	-Inf	71.96	3	Vertical	110	2.34	-	27.51	2.25	-
PK	2.4838G	69.64	74.00	-4.36	39.66	3	Vertical	110	2.34	-	27.70	2.28	-
AV	2.4842G	52.65	54.00	-1.35	22.66	3	Vertical	110	2.34	-	27.71	2.28	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

07/12/2020



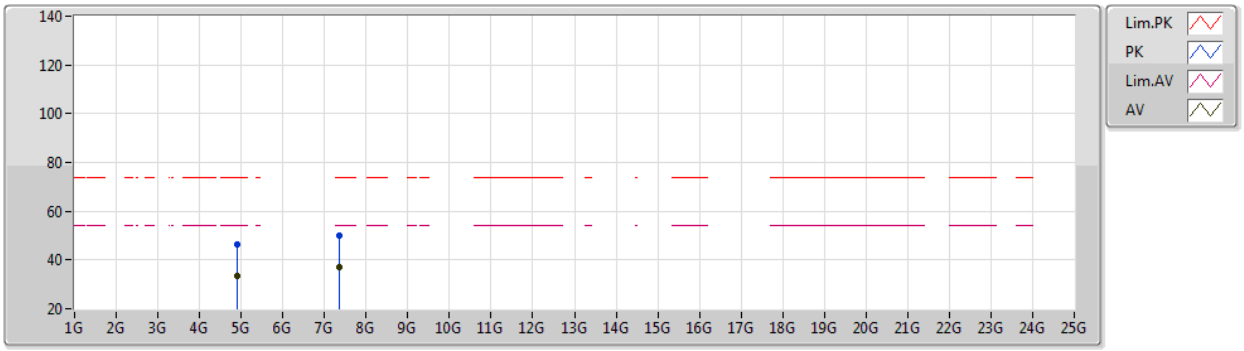
EUT Z_2TX
Setting 21
01-A-C-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3872G	55.39	74.00	-18.61	25.83	3	Vertical	124	2.78	-	27.37	2.19	-
AV	2.3868G	42.68	54.00	-11.32	13.12	3	Vertical	124	2.78	-	27.37	2.19	-
PK	2.4552G	114.56	Inf	-Inf	84.77	3	Vertical	124	2.78	-	27.53	2.26	-
AV	2.4512G	101.48	Inf	-Inf	71.72	3	Vertical	124	2.78	-	27.51	2.25	-
PK	2.492G	72.76	74.00	-1.24	42.72	3	Vertical	124	2.78	-	27.75	2.29	-
AV	2.486G	52.40	54.00	-1.60	22.39	3	Vertical	124	2.78	-	27.72	2.29	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

07/12/2020



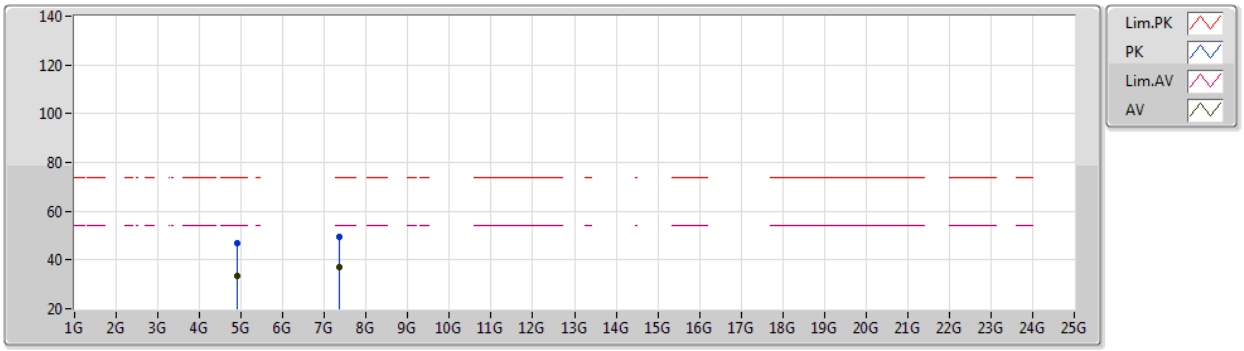
EUT Z_2TX
Setting 21
01-A-G-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.89212G	46.49	74.00	-27.51	40.42	3	Vertical	179	2.86	-	33.17	4.70	31.80
AV	4.89326G	33.39	54.00	-20.61	27.32	3	Vertical	179	2.86	-	33.17	4.70	31.80
PK	7.35342G	49.97	74.00	-24.03	40.14	3	Vertical	137	1.25	-	36.49	5.78	32.44
AV	7.35288G	37.21	54.00	-16.79	27.38	3	Vertical	137	1.25	-	36.49	5.78	32.44

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

07/12/2020



EUT Z_2TX
Setting 21
01-A-G-3

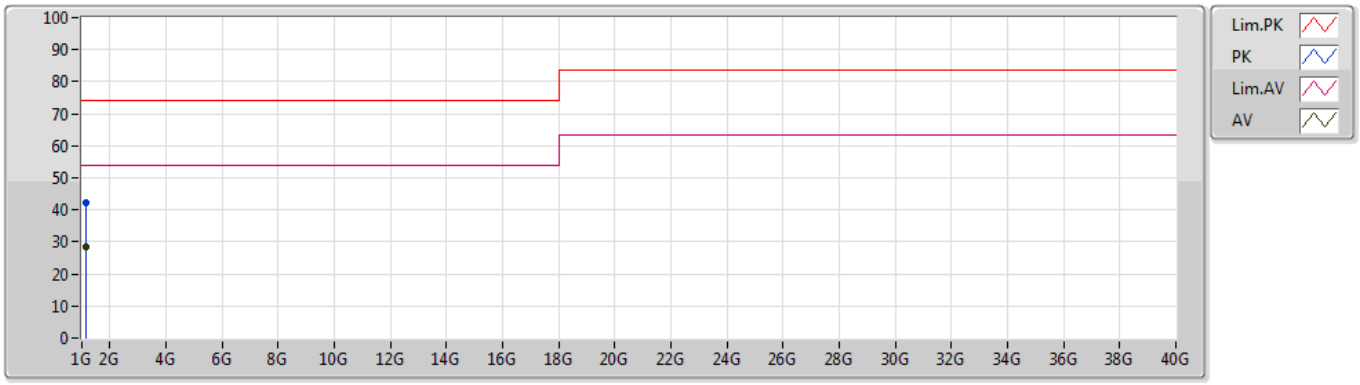
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.89884G	46.76	74.00	-27.24	40.66	3	Horizontal	258	2.38	-	33.20	4.70	31.80
AV	4.8971G	33.28	54.00	-20.72	27.19	3	Horizontal	258	2.38	-	33.19	4.70	31.80
PK	7.34514G	49.72	74.00	-24.28	39.90	3	Horizontal	96	1.67	-	36.49	5.77	32.44
AV	7.34964G	37.32	54.00	-16.68	27.49	3	Horizontal	96	1.67	-	36.50	5.77	32.44

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.12586G	28.54	54.00	-25.46	Vertical

Mode 1

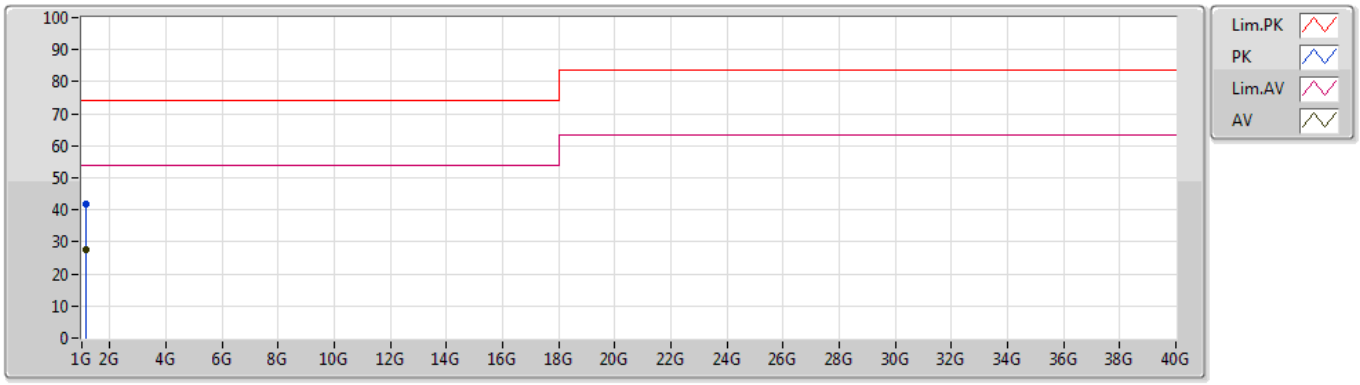
05/02/2021



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	1.12573G	42.18	74.00	-31.82	-9.96	3	Vertical	257	1.59	-	52.14	23.81	2.03	35.80
AV	1.12586G	28.54	54.00	-25.46	-9.96	3	Vertical	257	1.59	"Worst"	38.50	23.81	2.03	35.80

Mode 1

05/02/2021



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	1.12547G	41.88	74.00	-32.12	-9.96	3	Horizontal	111	1.63	-	51.84	23.81	2.03	35.80
AV	1.12686G	27.62	54.00	-26.38	-9.95	3	Horizontal	111	1.63	"Worst"	37.57	23.82	2.03	35.80