3787

RADIO TEST REPORT

FCC ID	:	I8811AXAP22A
Equipment	:	802.11ax (WiFi 6) Dual-Radio PoE Access Point
Brand Name	:	ZYXEL
Model Name	:	NWA50AX
Applicant	:	ZyXEL Communications Corporation No.2 Industry East RD. IX, Hsinchu Science Park, Hsinchu 30075, Taiwan, R.O.C
Manufacturer	:	ZyXEL Communications Corporation No.2 Industry East RD. IX, Hsinchu Science Park, Hsinchu 30075, Taiwan, R.O.C
Standard	:	47 CFR FCC Part 15.247

The product was received on Feb. 19, 2021, and testing was started from Mar. 15, 2021 and completed on Apr. 10, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

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

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History of this test report

Report No.	Version	Description	Issued Date
FR0D1029AA	01	Initial issue of report	Apr. 29, 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:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. 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: Wendy Pan

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						2.4GHz	5GHz
1	1	LYNwave	MLX21M-221AA0-A	PIFA	I-PEX	3.4	4.5
2	2	LYNwave	MLX21M-221AA0-A	PIFA	I-PEX	3.1	4.2

Note: The above information was declared by manufacturer.
For WLAN 2.4GHz function:
For IEEE 802.11b/g/n/VHT/ax mode (2TX/2RX):
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.
For WLAN 5GHz function:
For IEEE 802.11a/n/ac/ax mode (2TX/2RX):
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.98	0.09	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.871	0.6	1.4m	1k
802.11ax HEW20	0.841	0.75	1.035m	1k
802.11ax HEW20-BF	0.841	0.75	1.035m	1k
802.11ax HEW40	0.735	1.34	555u	3k
802.11ax HEW40-BF	0.735	1.34	555u	3k

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	For IEEE 802.11n/ax/VHT in 2.4GHz and IEEE 802.11n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QATool_Dbg (ver 0.0.2.29)			

Note: 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 Information	
Test Lab.：Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Test site registered number IC 4086D with Industry Canada.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Caster Chang	23.2-24.5 / 49-51	Apr. 06, 2021 ~ Apr. 07, 2021
Radiated <1GHz and Radiated Co-location	03CH03-CB	Bruce Yang	20.2-21.3 / 56-58	Mar. 22, 2021 ~ Apr. 10, 2021
Radiated >1GHz	03CH04-CB	RJ Huang	21-22.2 / 55-57	Mar. 15, 2021 ~ Apr. 01, 2021
	03CH06-CB	RJ Huang	21.5-22.6 / 55-58	Mar. 15, 2021 ~ Apr. 01, 2021
AC Conduction	CO02-CB	Peter Wu	21~22 / 59~60	Mar. 24, 2021

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	17.5
2417MHz	18
2437MHz	19.5
2457MHz	18
2462MHz	16
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	15.5
2417MHz	17
2437MHz	20
2457MHz	16.5
2462MHz	14
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	14.5
2417MHz	16.5
2437MHz	19
2457MHz	15.5
2462MHz	13
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	14.5
2417MHz	16.5
2437MHz	19
2457MHz	15.5
2462MHz	13
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	12.5
2427MHz	13.5
2437MHz	14.5
2447MHz	13
2452MHz	12.5
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	12.5
2427MHz	13.5
2437MHz	14.5
2447MHz	13

Mode	Power Setting
2452MHz	12.5

Note:
- Evaluated HEW20/HEW40 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.
- The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

2.2 Test Voltage

120 V / 60 Hz

2.3 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
2	EUT with PoE
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	Normal Link
1	EUT at Z axis with Adapter
2	EUT at Y axis with Adapter
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT at Z axis with PoE
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis. So 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
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA0D1029 for Co-location RF Exposure Evaluation.	

Note: 1.The manufacturer declared that the console port can not be used by the end-user.
2.The PoE is for measurement only, would not be marketed.

Support Unit	Brand	Model
PoE	GLP	PE-1000IAF

2.4 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.5 Accessories

Accessories			
Equipment Name	**Brand**	**Model Name**	**Rating**
Adapter	DVE	DSA-18PFCA-12 120150	INPUT: 100-240V ~ 50/60Hz, 0.6A OUTPUT: 12.0V, 1.5A, 18.0W
Other			
Plug*1			

2.6 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN NB	DELL	E6430	N/A
B	2.4G NB	DELL	E6430	N/A
C	5G NB	DELL	E6430	N/A
D	PoE	GLP	PE-1000IAF	N/A

For Radiated above 1GHz:

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

For Radiated below 1GHz:

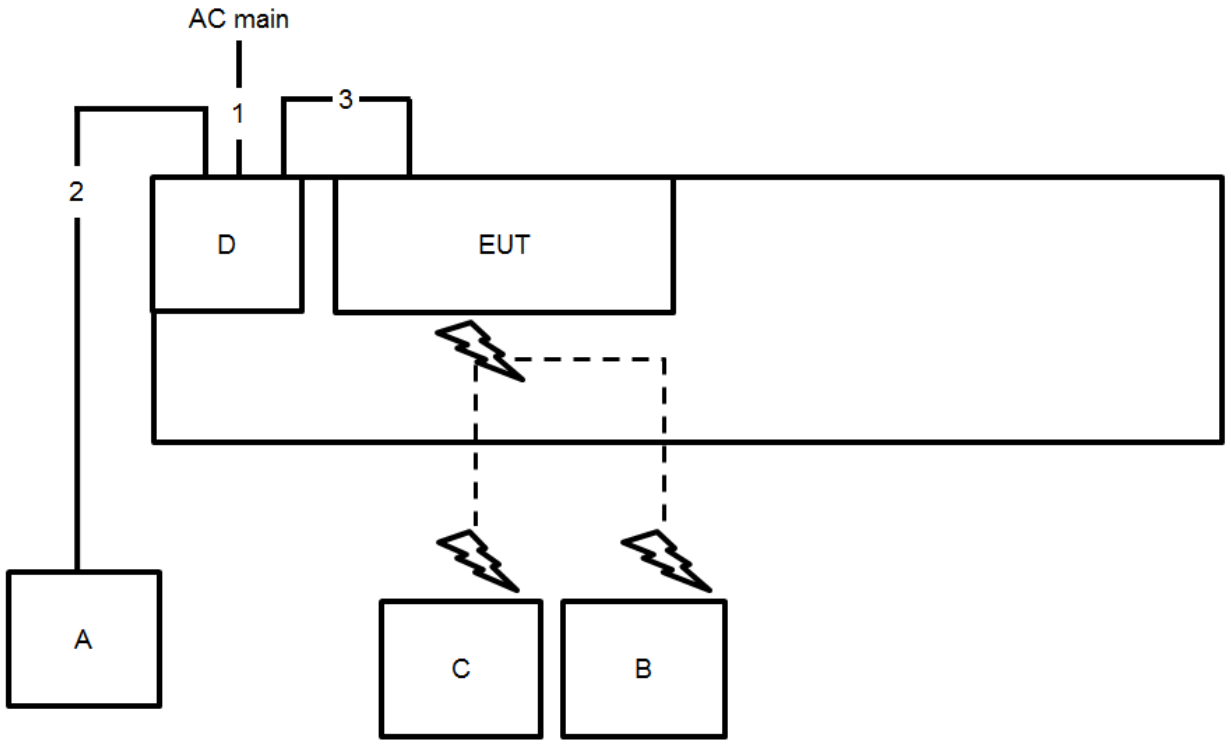
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Notebook	DELL	E4300	N/A
D	PoE	GLP	PE-1000IAF	N/A

For RF Conducted:

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

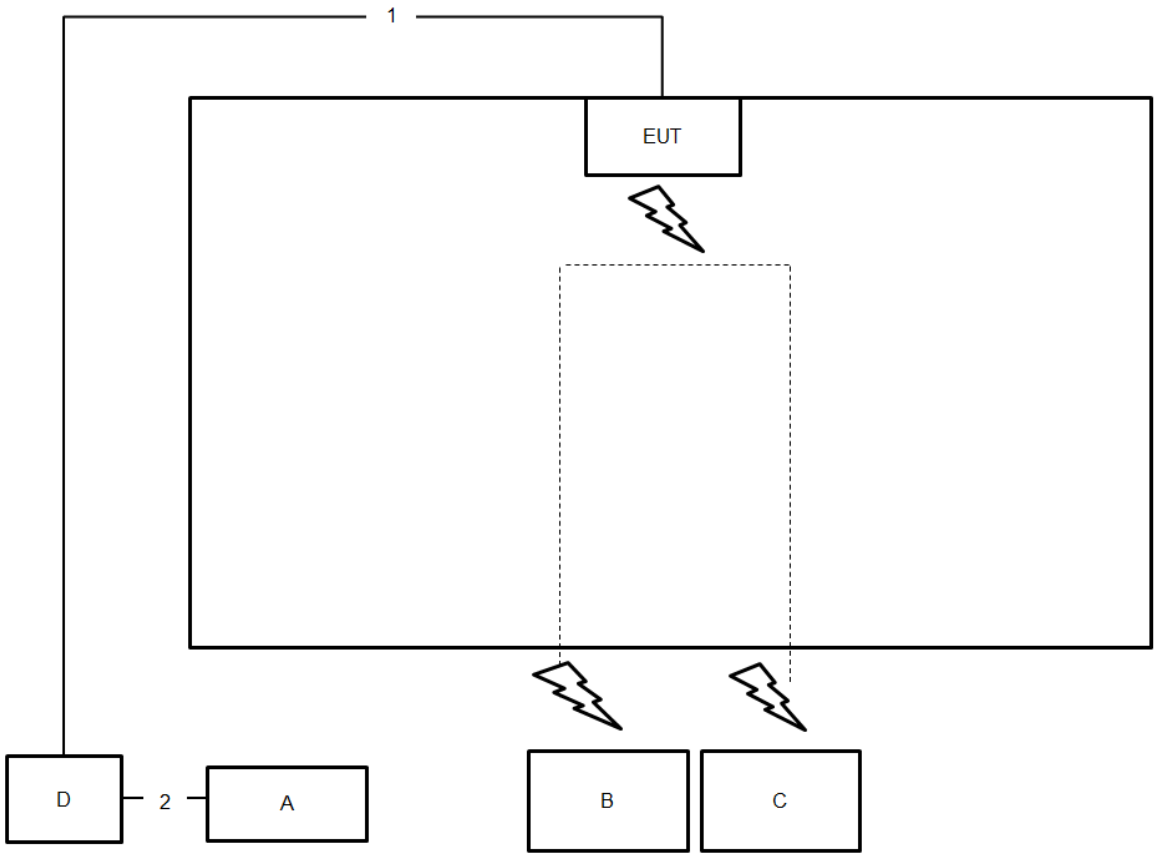
2.7 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



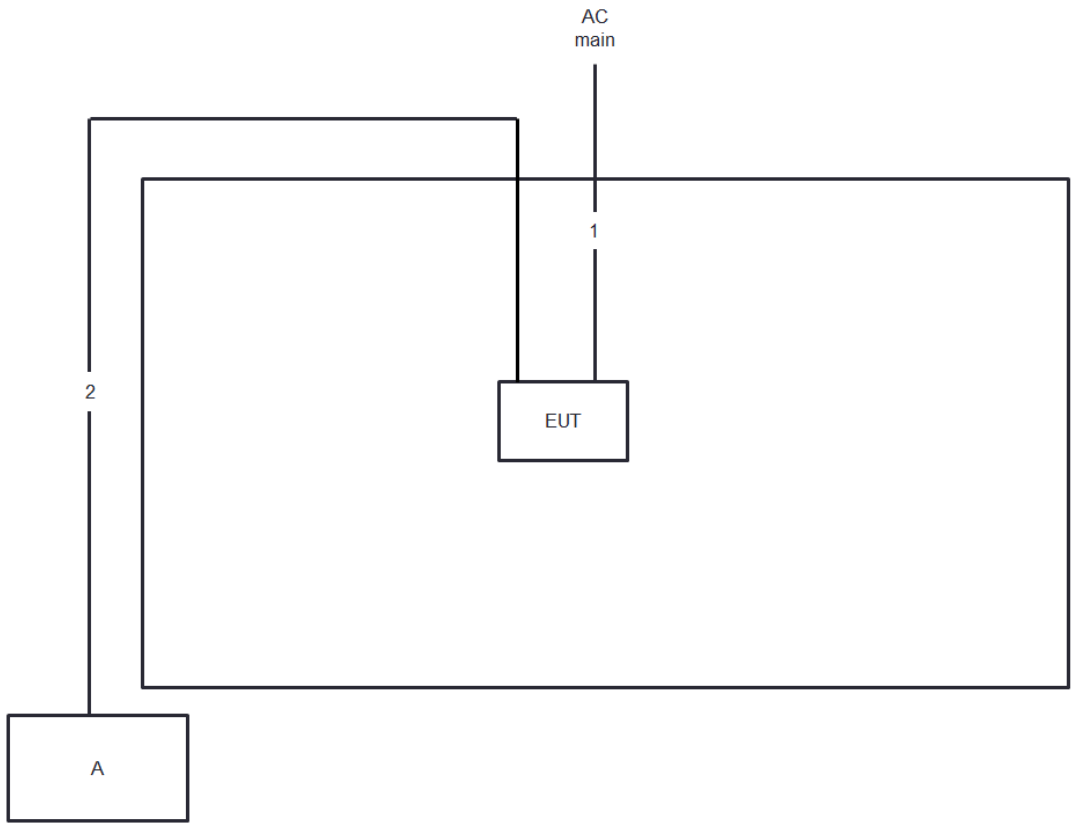
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1m

Test Setup Diagram - Radiated below 1GHz Test



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

Test Setup Diagram - Radiated above 1GHz Test



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

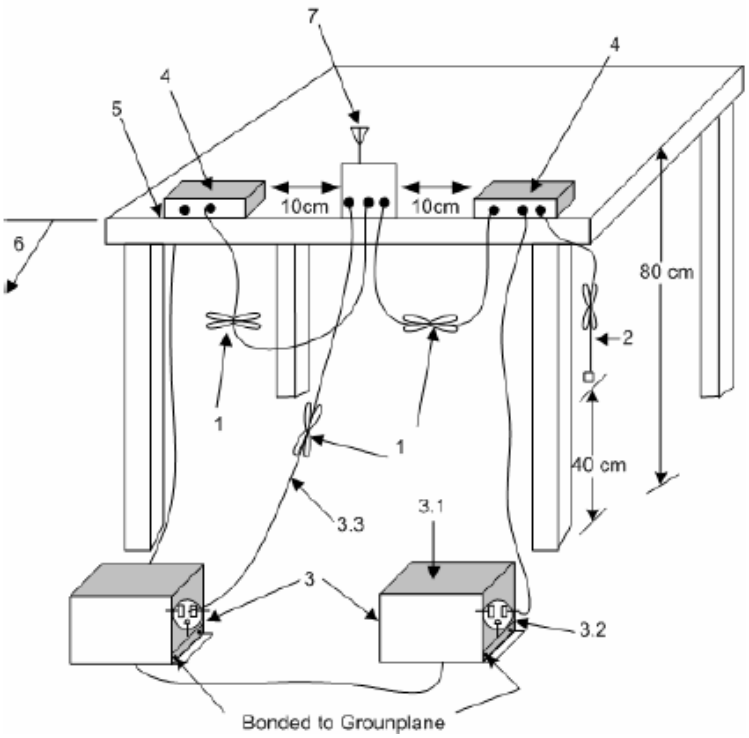
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ 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.

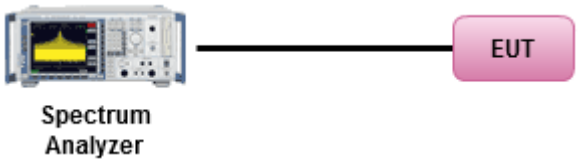
3.2.2 Measuring Instruments

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

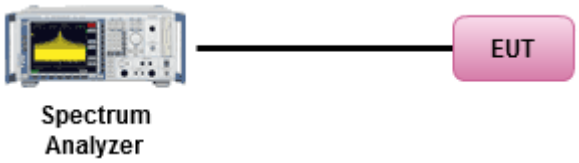
3.4.2 Measuring Instruments

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.	

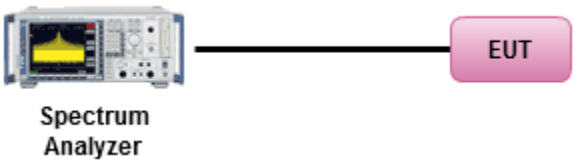
3.5.2 Measuring Instruments

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.

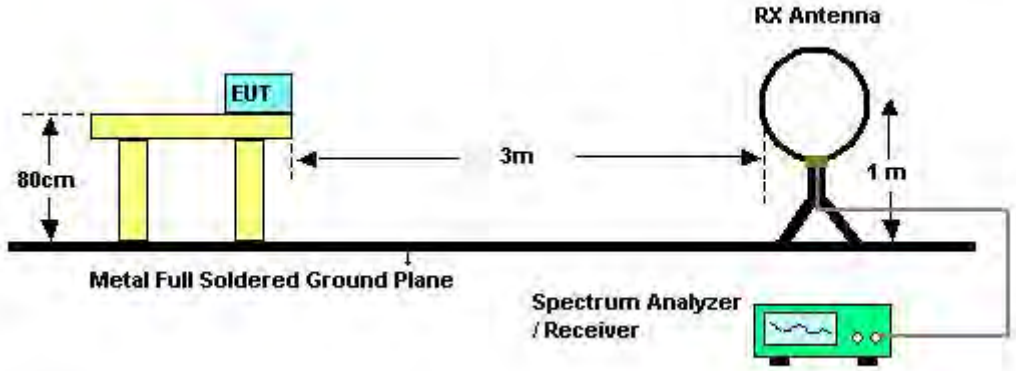
3.6.3 Test Procedures

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.

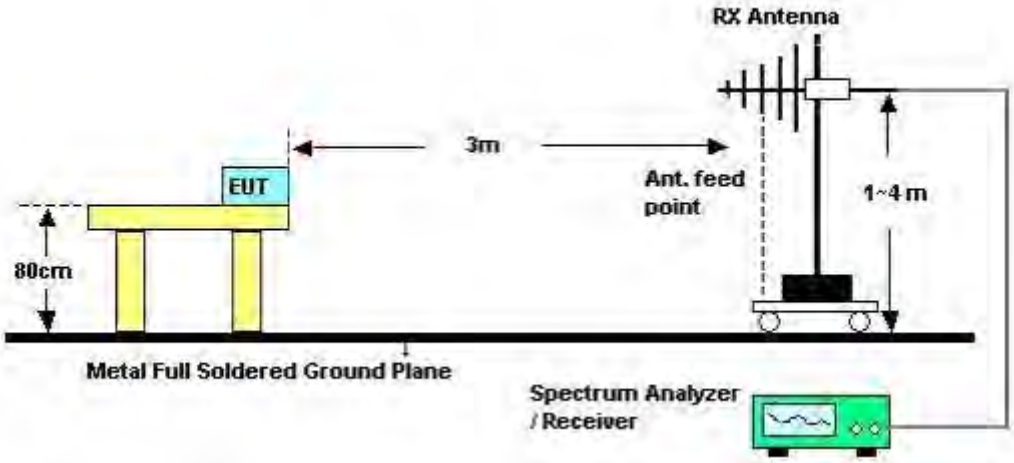
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

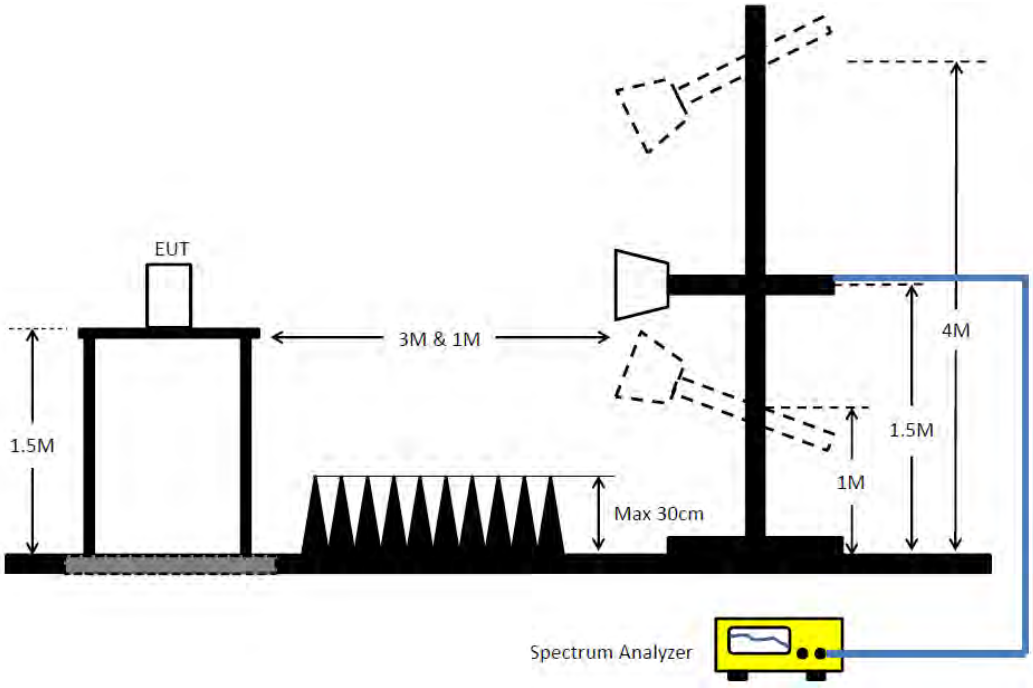
9kHz ~30MHz



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
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Dec. 04, 2020	Dec. 03, 2021	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 20, 2020	Nov. 19, 2021	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 20, 2020	Oct. 19, 2021	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 18, 2021	Mar. 17, 2022	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 16, 2021	Mar. 15, 2022	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)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 28, 2020	May 27, 2021	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 22, 2021	Feb. 21, 2022	Radiation (03CH03-CB)
Horn Antenna	COM-POWER	AH-118	071028	1GHz ~ 18GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 11, 2021	Jan. 10, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 03, 2020	Jun. 02, 2021	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH03-CB)
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)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 25, 2021	Feb. 24, 2022	Radiation (03CH04-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	ETS・Lindgren	3115	00143147	750MHz~18GHz	Oct. 23, 2020	Oct. 22, 2021	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 14, 2020	Jul. 13, 2021	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Feb. 19, 2021	Feb. 18, 2022	Radiation (03CH04-CB
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Nov. 05, 2020	Nov. 04, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2020	Oct. 01, 2021	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 22, 2020	Jul. 21, 2021	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 07, 2020	May 06, 2021	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 15, 2020	Dec. 14, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+24	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 31, 2020	Dec. 30, 2021	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

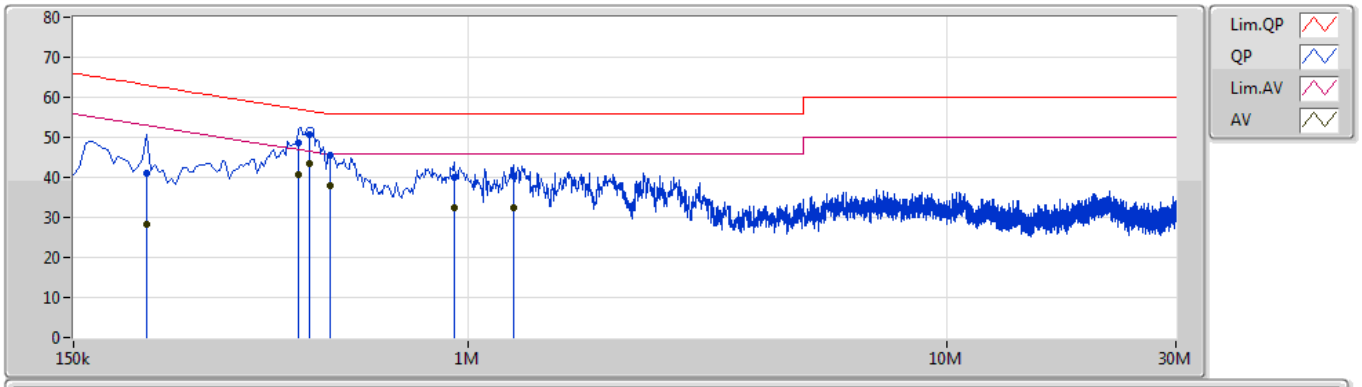
N.C.R. means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	465k	43.44	46.61	-3.17	Line

Mode 2

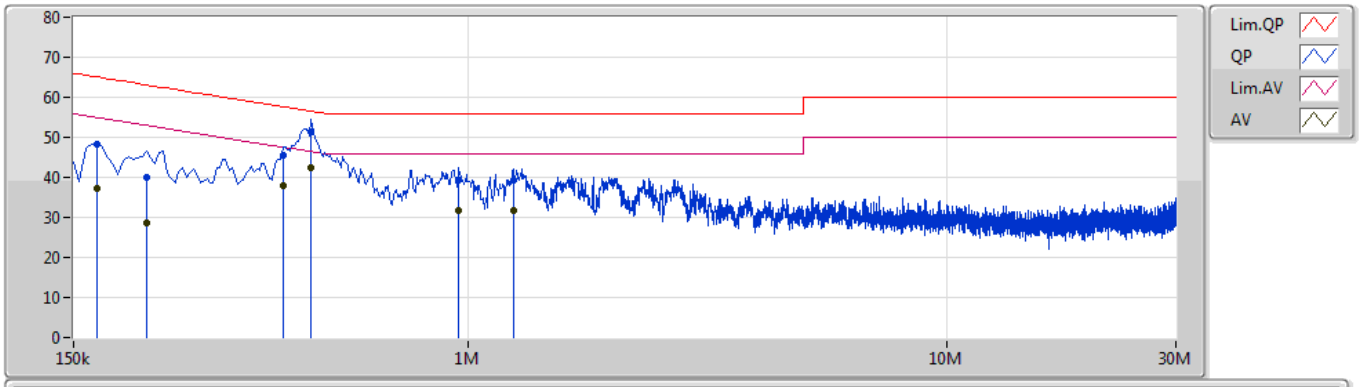
24/03/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	213k	40.87	63.09	-22.22	10.30	Line	-	30.57	0.07	0.07	10.16
AV	213k	28.24	53.09	-24.85	10.30	Line	-	17.94	0.07	0.07	10.16
QP	442.5k	48.71	57.01	-8.30	10.25	Line	-	38.46	0.08	0.06	10.11
AV	442.5k	40.62	47.01	-6.39	10.25	Line	-	30.37	0.08	0.06	10.11
QP	465k	50.82	56.61	-5.79	10.25	Line	-	40.57	0.08	0.06	10.11
AV	465k	43.44	46.61	-3.17	10.25	Line	"Worst"	33.19	0.08	0.06	10.11
QP	514.5k	45.47	56.00	-10.53	10.26	Line	-	35.21	0.08	0.07	10.11
AV	514.5k	37.86	46.00	-8.14	10.26	Line	-	27.60	0.08	0.07	10.11
QP	933k	40.13	56.00	-15.87	10.27	Line	-	29.86	0.09	0.08	10.10
AV	933k	32.34	46.00	-13.66	10.27	Line	-	22.07	0.09	0.08	10.10
QP	1.244M	40.33	56.00	-15.67	10.30	Line	-	30.03	0.10	0.09	10.11
AV	1.244M	32.52	46.00	-13.48	10.30	Line	-	22.22	0.10	0.09	10.11

Mode 2

24/03/2021



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	168k	48.24	65.06	-16.82	10.28	Neutral	-	37.96	0.06	0.07	10.15
AV	168k	37.35	55.06	-17.71	10.28	Neutral	-	27.07	0.06	0.07	10.15
QP	213k	40.06	63.09	-23.03	10.29	Neutral	-	29.77	0.06	0.07	10.16
AV	213k	28.70	53.09	-24.39	10.29	Neutral	-	18.41	0.06	0.07	10.16
QP	411k	45.55	57.63	-12.08	10.23	Neutral	-	35.32	0.06	0.06	10.11
AV	411k	37.84	47.63	-9.79	10.23	Neutral	-	27.61	0.06	0.06	10.11
QP	469.5k	51.27	56.52	-5.25	10.23	Neutral	-	41.04	0.06	0.06	10.11
AV	469.5k	42.47	46.52	-4.05	10.23	Neutral	"Worst"	32.24	0.06	0.06	10.11
QP	951k	39.22	56.00	-16.78	10.26	Neutral	-	28.96	0.08	0.08	10.10
AV	951k	31.84	46.00	-14.16	10.26	Neutral	-	21.58	0.08	0.08	10.10
QP	1.244M	39.31	56.00	-16.69	10.28	Neutral	-	29.03	0.08	0.09	10.11
AV	1.244M	31.73	46.00	-14.27	10.28	Neutral	-	21.45	0.08	0.09	10.11

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	10.05M	15.892M	15M9G1D	7.55M	12.794M
802.11g_Nss1,(6Mbps)_2TX	15.125M	23.888M	23M9D1D	15.05M	16.417M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.125M	21.614M	21M6D1D	16.275M	18.791M
802.11ax HEW40_Nss1,(MCS0)_2TX	36.5M	37.731M	37M7D1D	35M	37.531M

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

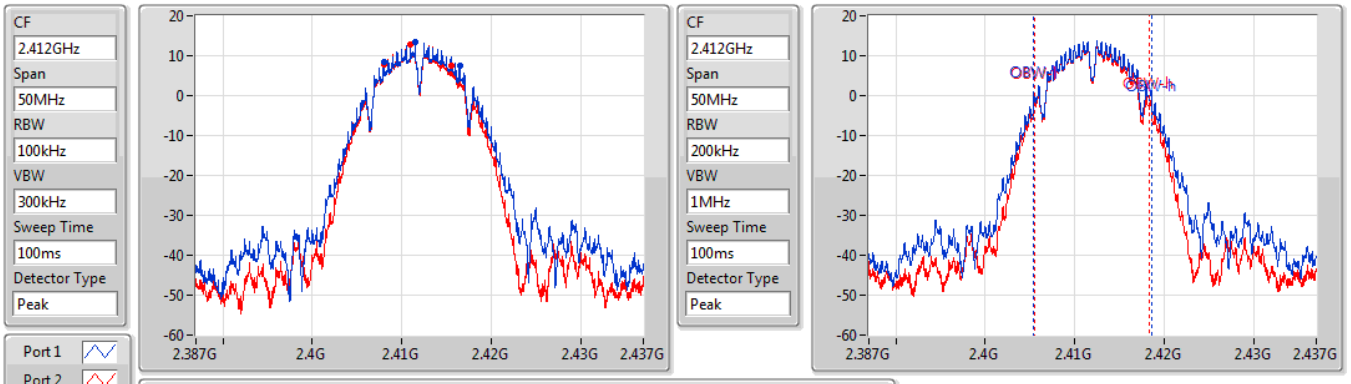
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.525M	13.243M	7.55M	12.819M
2437MHz	Pass	500k	10.05M	15.667M	10.025M	15.892M
2462MHz	Pass	500k	8.05M	12.794M	8M	12.944M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.05M	16.492M	15.075M	16.492M
2437MHz	Pass	500k	15.05M	23.788M	15.125M	23.888M
2462MHz	Pass	500k	15.1M	16.417M	15.1M	16.492M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.975M	18.841M	18.125M	18.791M
2437MHz	Pass	500k	16.275M	21.439M	16.675M	21.614M
2462MHz	Pass	500k	17.675M	18.966M	17.65M	18.941M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.05M	37.581M	36.5M	37.631M
2437MHz	Pass	500k	36.4M	37.681M	35M	37.731M
2452MHz	Pass	500k	36.3M	37.581M	36.05M	37.531M

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

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

07/04/2021

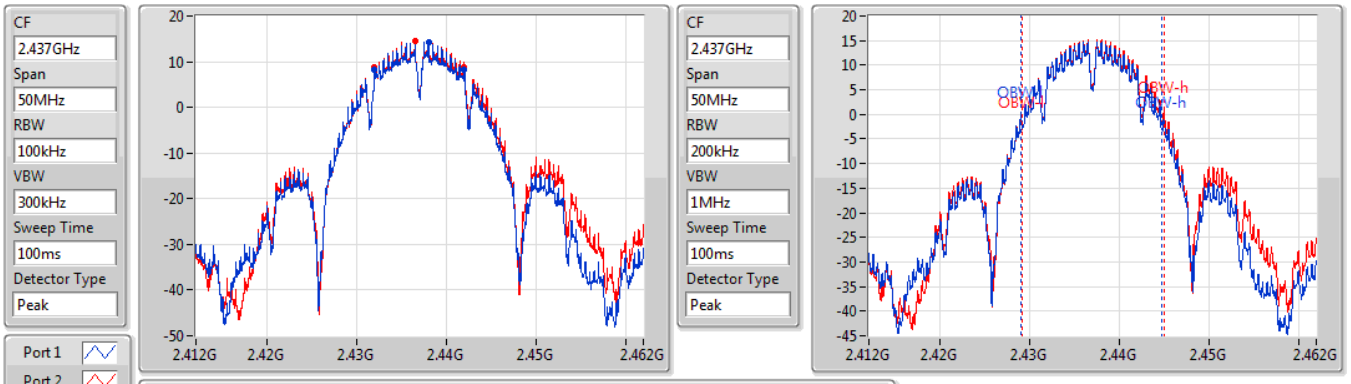


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.525M	2.407975G	2.4165G	13.243M	2.405428G	2.418672G	500k	1
7.55M	2.407975G	2.415525G	12.819M	2.405528G	2.418347G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

07/04/2021

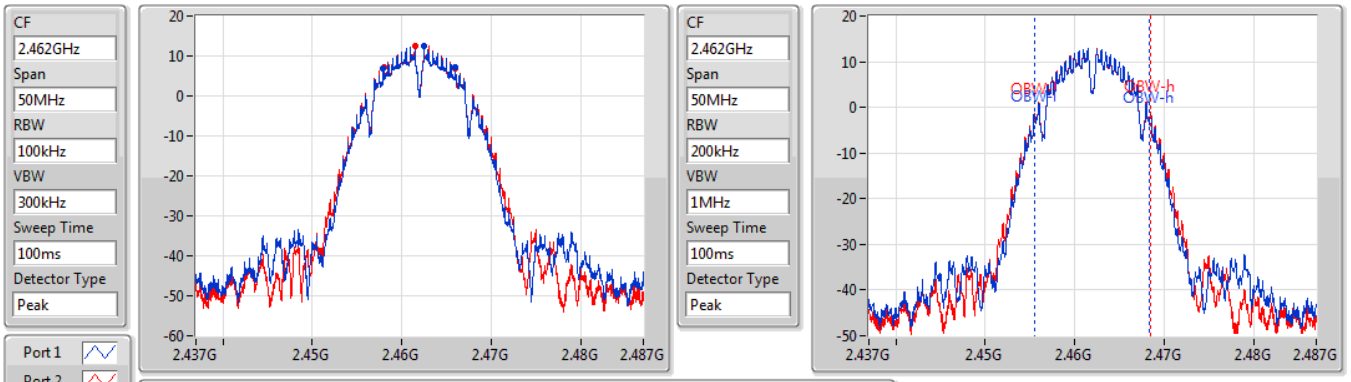


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.05M	2.43195G	2.442G	15.667M	2.429054G	2.444721G	500k	1
10.025M	2.431975G	2.442G	15.892M	2.429154G	2.445046G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

07/04/2021

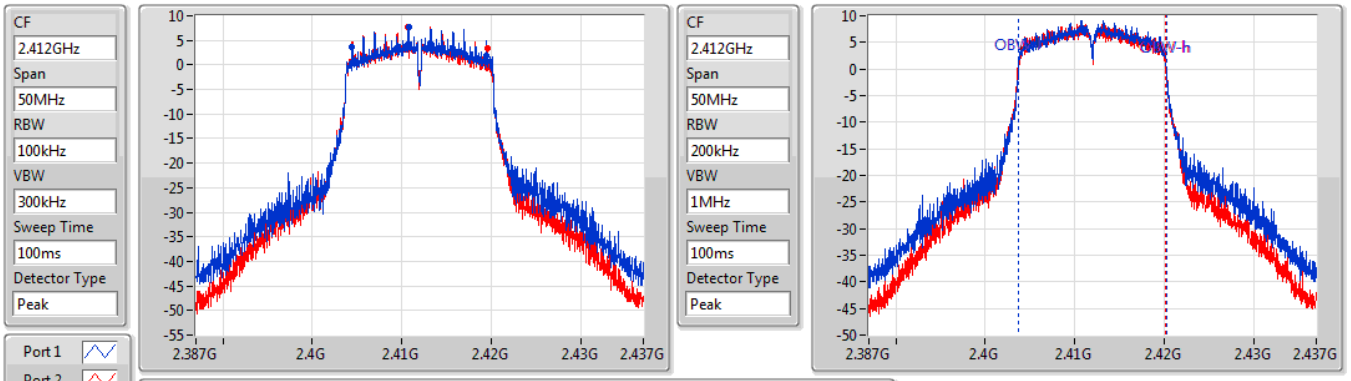


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.05M	2.45795G	2.466G	12.794M	2.455578G	2.468372G	500k	1
8M	2.458G	2.466G	12.944M	2.455528G	2.468472G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

07/04/2021

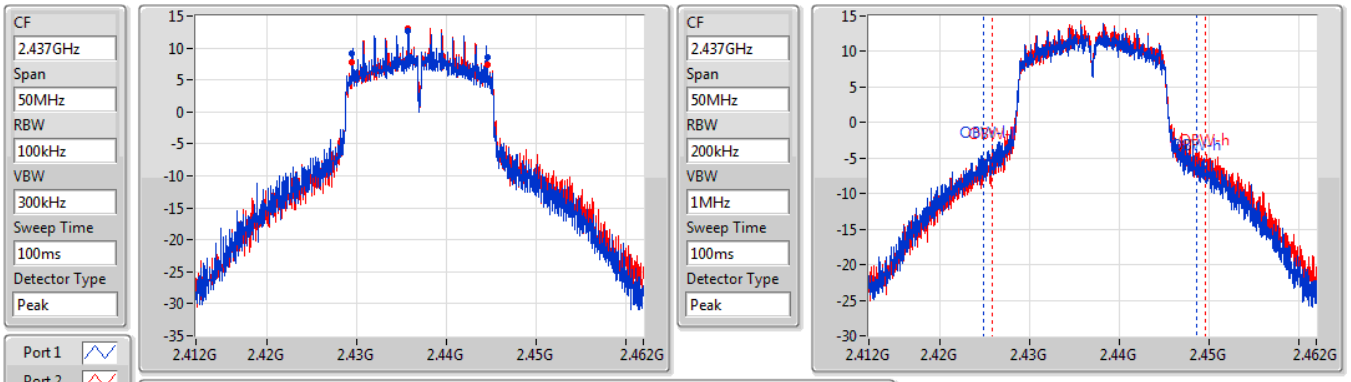


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.05M	2.40445G	2.4195G	16.492M	2.403754G	2.420246G	500k	1
15.075M	2.40445G	2.419525G	16.492M	2.403704G	2.420196G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2437MHz

07/04/2021

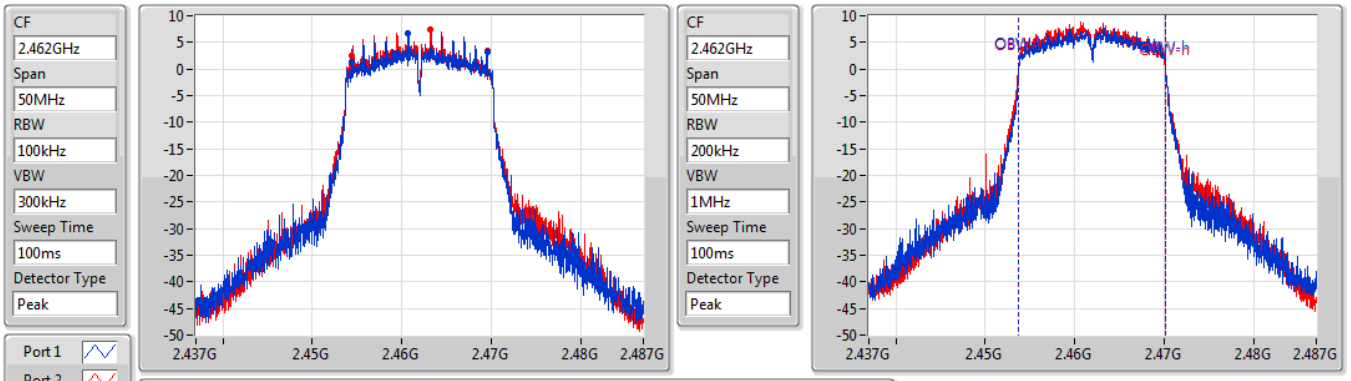


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.05M	2.429475G	2.444525G	23.788M	2.424831G	2.448619G	500k	1
15.125M	2.429425G	2.44455G	23.888M	2.425731G	2.449619G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2462MHz

07/04/2021

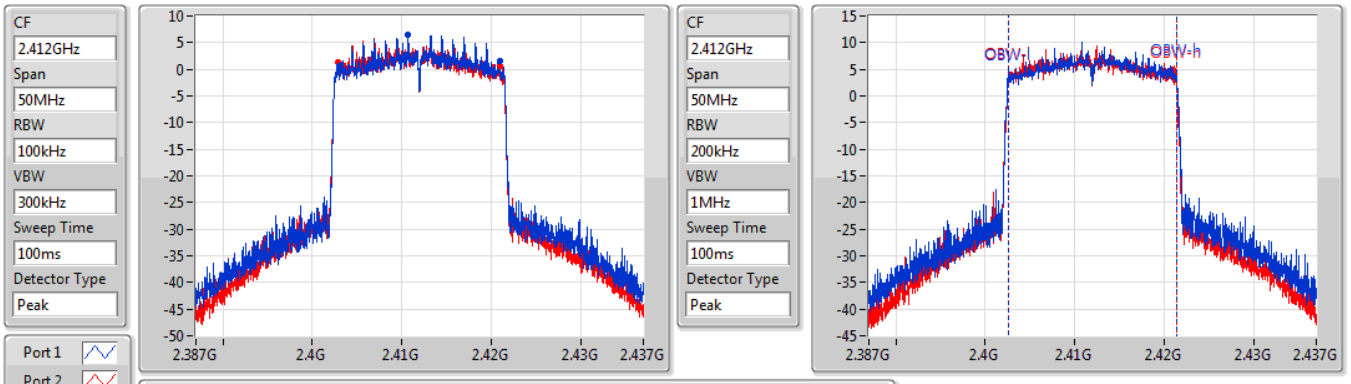


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	2.454425G	2.469525G	16.417M	2.453779G	2.470196G	500k	1
15.1M	2.454425G	2.469525G	16.492M	2.453704G	2.470196G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

2412MHz

07/04/2021

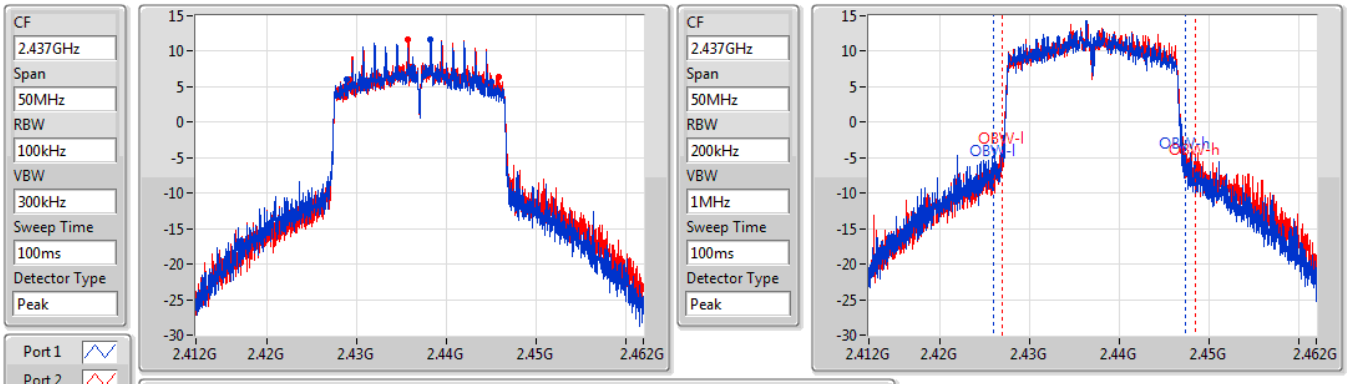


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.975M	2.402975G	2.42095G	18.841M	2.40258G	2.42142G	500k	1
18.125M	2.402825G	2.42095G	18.791M	2.40258G	2.42137G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

2437MHz

07/04/2021

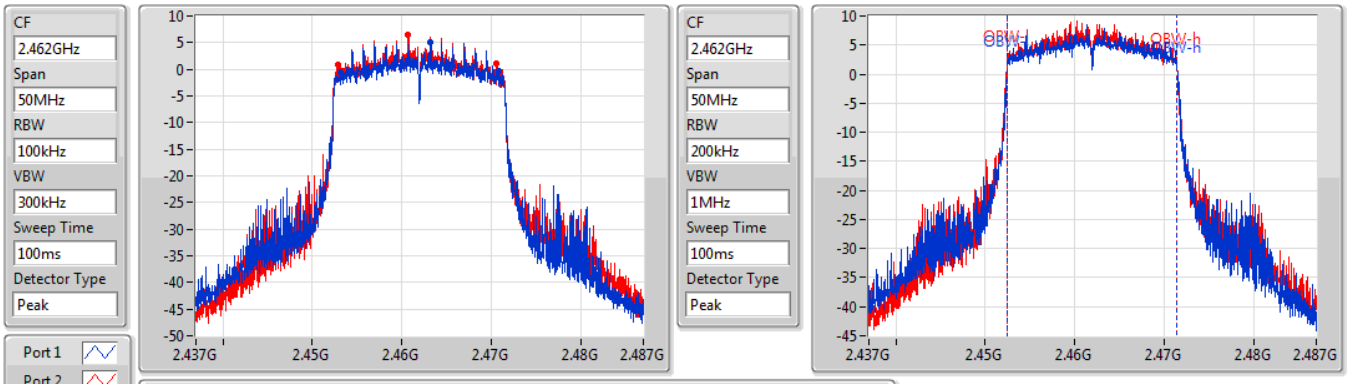


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.275M	2.4288G	2.445075G	21.439M	2.425931G	2.44737G	500k	1
16.675M	2.429125G	2.4458G	21.614M	2.42693G	2.448544G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

2462MHz

07/04/2021

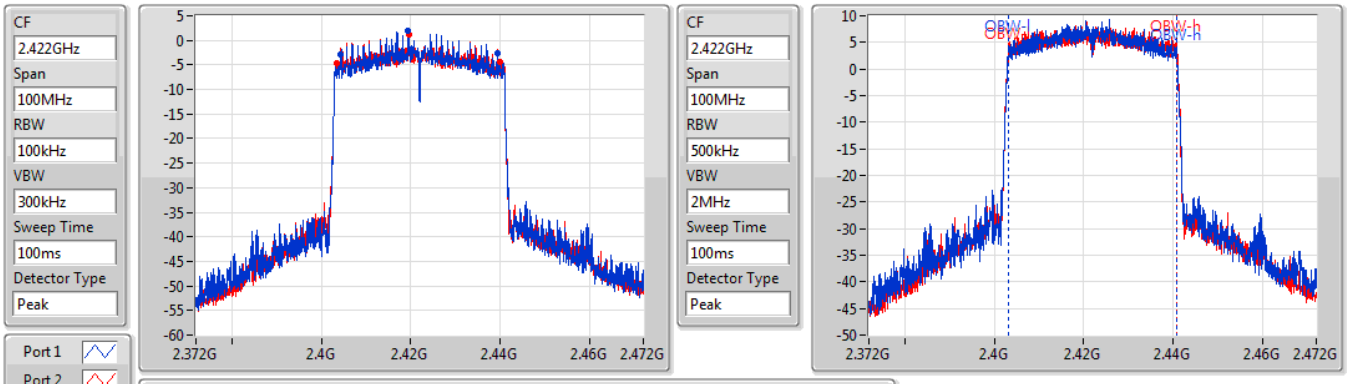


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.675M	2.453125G	2.4708G	18.966M	2.452505G	2.47147G	500k	1
17.65M	2.452925G	2.470575G	18.941M	2.45248G	2.47142G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

2422MHz

07/04/2021

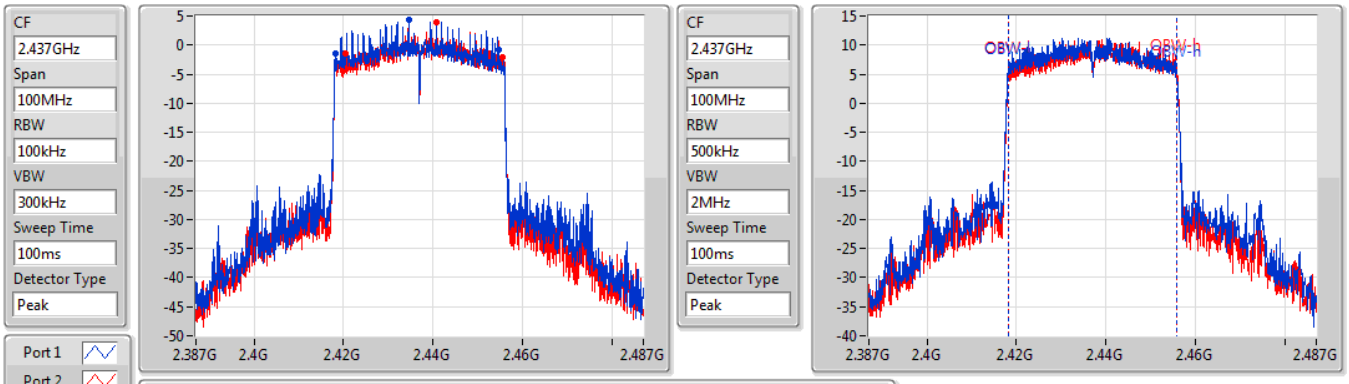


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.05M	2.40445G	2.4395G	37.581M	2.403159G	2.440741G	500k	1
36.5M	2.4034G	2.4399G	37.631M	2.403209G	2.440841G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

2437MHz

07/04/2021

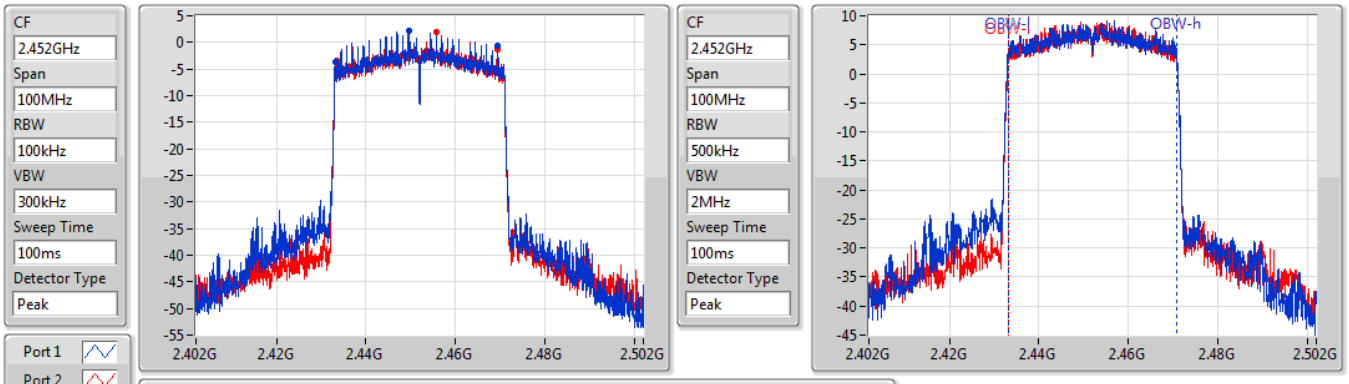


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.4M	2.41815G	2.45455G	37.681M	2.418109G	2.455791G	500k	1
35M	2.42045G	2.45545G	37.731M	2.418109G	2.455841G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

2452MHz

07/04/2021



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	2.4332G	2.4695G	37.581M	2.433209G	2.470791G	500k	1
36.05M	2.43345G	2.4695G	37.531M	2.433209G	2.470741G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	26.60	0.45709
802.11g_Nss1,(6Mbps)_2TX	25.74	0.37497
802.11ax HEW20_Nss1,(MCS0)_2TX	25.12	0.32509
802.11ax HEW40_Nss1,(MCS0)_2TX	20.59	0.11455

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.40	21.65	21.11	24.40	30.00
2417MHz	Pass	3.40	21.94	21.65	24.81	30.00
2437MHz	Pass	3.40	23.37	23.80	26.60	30.00
2457MHz	Pass	3.40	22.68	21.98	25.35	30.00
2462MHz	Pass	3.40	20.54	20.55	23.56	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.40	18.43	18.12	21.29	30.00
2417MHz	Pass	3.40	19.90	19.62	22.77	30.00
2437MHz	Pass	3.40	22.59	22.87	25.74	30.00
2457MHz	Pass	3.40	19.84	19.55	22.71	30.00
2462MHz	Pass	3.40	17.40	17.87	20.65	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.40	17.42	17.21	20.33	30.00
2417MHz	Pass	3.40	19.37	19.06	22.23	30.00
2437MHz	Pass	3.40	22.03	22.18	25.12	30.00
2457MHz	Pass	3.40	18.97	18.68	21.84	30.00
2462MHz	Pass	3.40	16.43	16.97	19.72	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.40	15.06	15.01	18.05	30.00
2427MHz	Pass	3.40	16.20	16.07	19.15	30.00
2437MHz	Pass	3.40	17.79	17.35	20.59	30.00
2447MHz	Pass	3.40	16.02	16.12	19.08	30.00
2452MHz	Pass	3.40	15.69	15.44	18.58	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	25.12	0.32509
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.59	0.11455

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.26	17.42	17.21	20.33	29.74
2417MHz	Pass	6.26	19.37	19.06	22.23	29.74
2437MHz	Pass	6.26	22.03	22.18	25.12	29.74
2457MHz	Pass	6.26	18.97	18.68	21.84	29.74
2462MHz	Pass	6.26	16.43	16.97	19.72	29.74
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.26	15.06	15.01	18.05	29.74
2427MHz	Pass	6.26	16.2	16.07	19.15	29.74
2437MHz	Pass	6.26	17.79	17.35	20.59	29.74
2447MHz	Pass	6.26	16.02	16.12	19.08	29.74
2452MHz	Pass	6.26	15.69	15.44	18.58	29.74

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	1.02
802.11g_Nss1,(6Mbps)_2TX	0.57
802.11ax HEW20_Nss1,(MCS0)_2TX	-2.12
802.11ax HEW40_Nss1,(MCS0)_2TX	-9.39

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

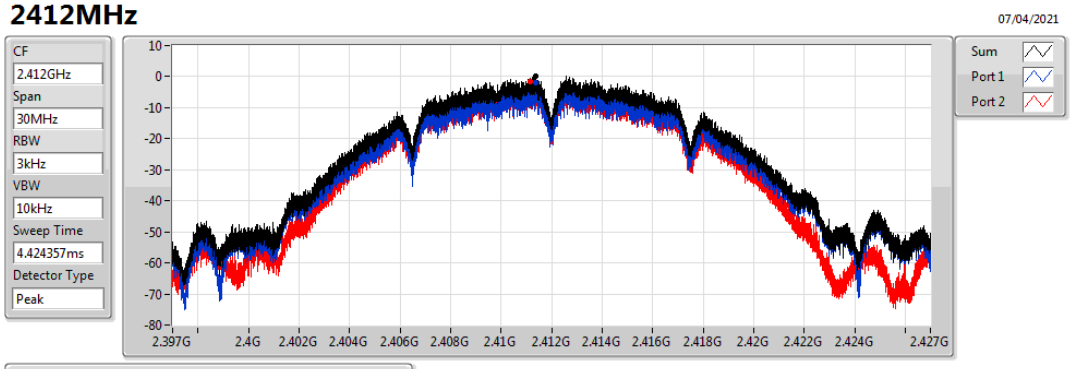
Result

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	6.26	-2.06	-1.76	0.23	7.74
2437MHz	Pass	6.26	-1.56	-0.65	1.02	7.74
2462MHz	Pass	6.26	-2.68	-1.58	-0.13	7.74
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.26	-6.23	-6.09	-3.15	7.74
2437MHz	Pass	6.26	-1.68	-2.65	0.57	7.74
2462MHz	Pass	6.26	-5.90	-6.53	-4.97	7.74
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.26	-9.15	-9.13	-7.01	7.74
2437MHz	Pass	6.26	-4.32	-2.69	-2.12	7.74
2462MHz	Pass	6.26	-9.90	-9.33	-8.50	7.74
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.26	-13.39	-14.47	-12.12	7.74
2437MHz	Pass	6.26	-12.15	-11.27	-9.39	7.74
2452MHz	Pass	6.26	-12.98	-12.86	-11.61	7.74

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

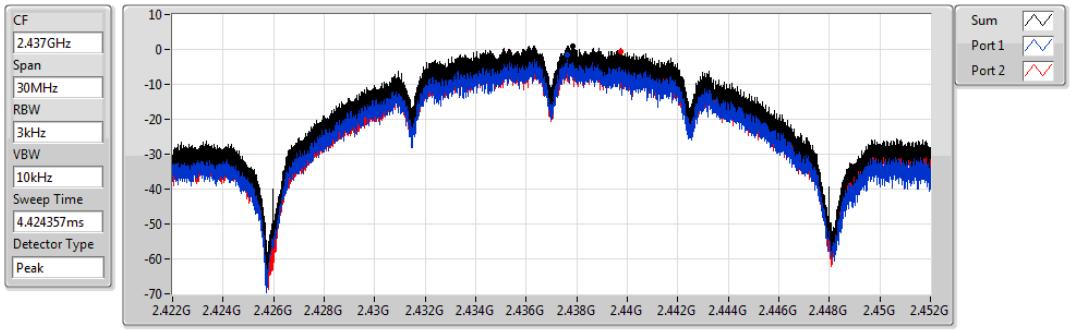
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.23	0.23	-2.06	-1.76

802.11b_Nss1,(1Mbps)_2TX PSD

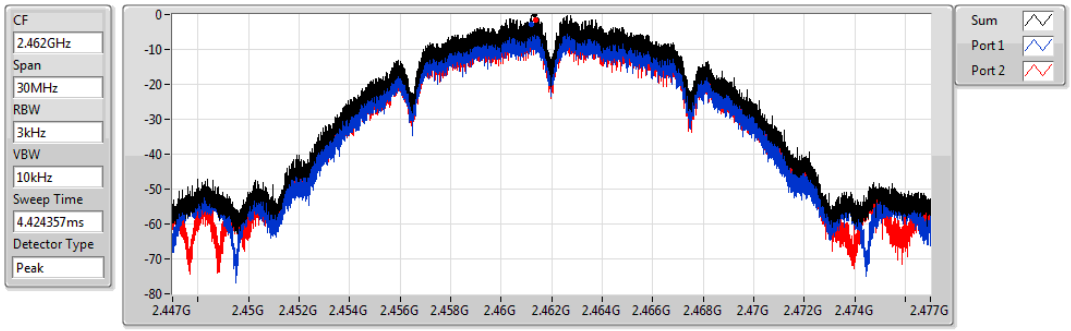
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.02	1.02	-1.56	-0.65

802.11b_Nss1,(1Mbps)_2TX PSD

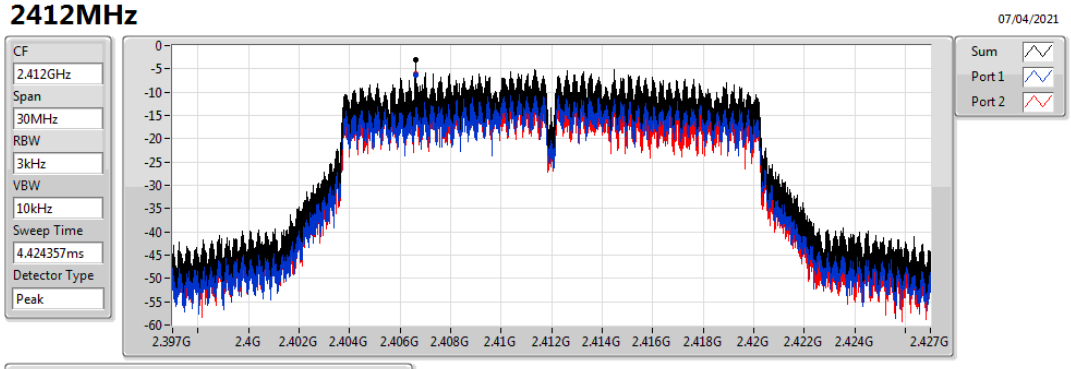
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.13	-0.13	-2.68	-1.58

802.11g_Nss1,(6Mbps)_2TX PSD

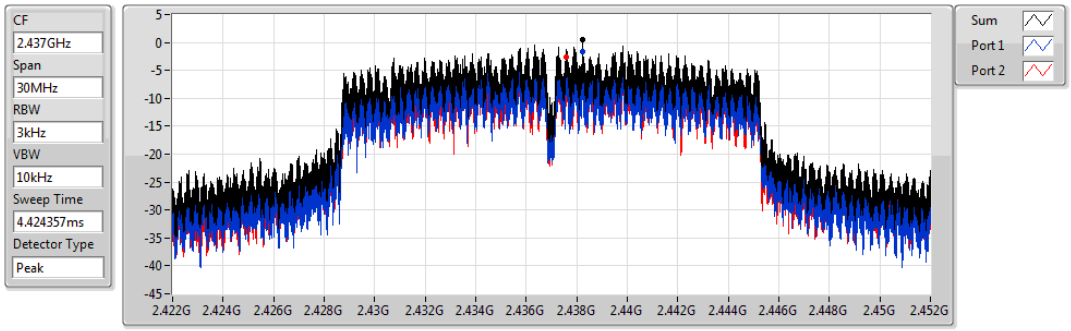
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.15	-3.15	-6.23	-6.09

802.11g_Nss1,(6Mbps)_2TX PSD

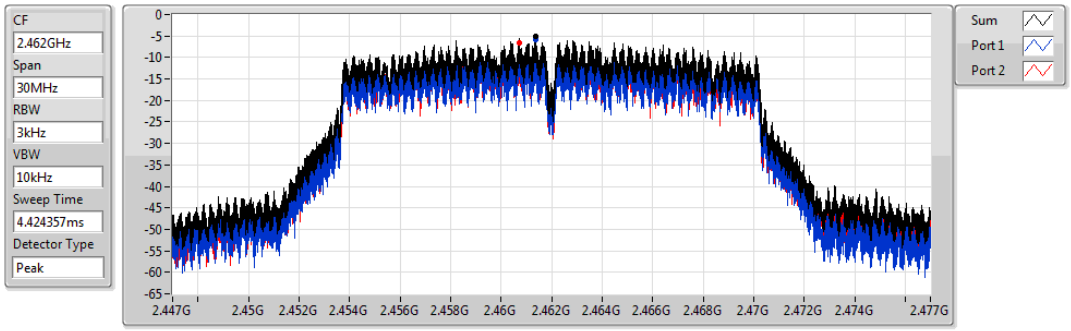
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.57	0.57	-1.68	-2.65

802.11g_Nss1,(6Mbps)_2TX PSD

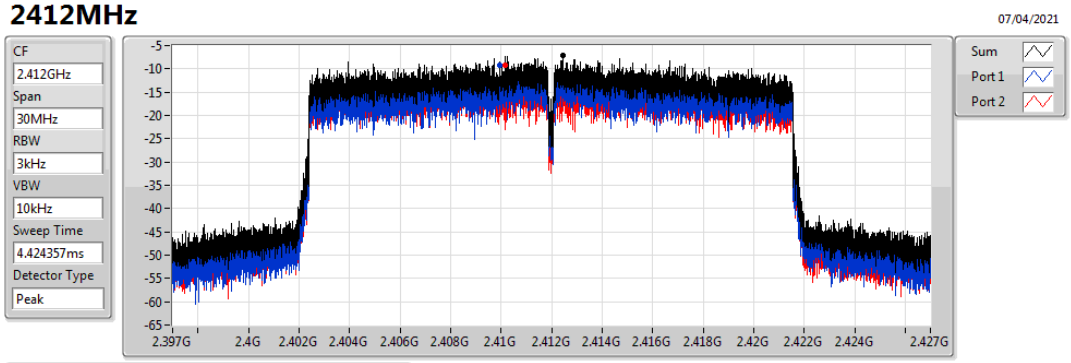
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.97	-4.97	-5.90	-6.53

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

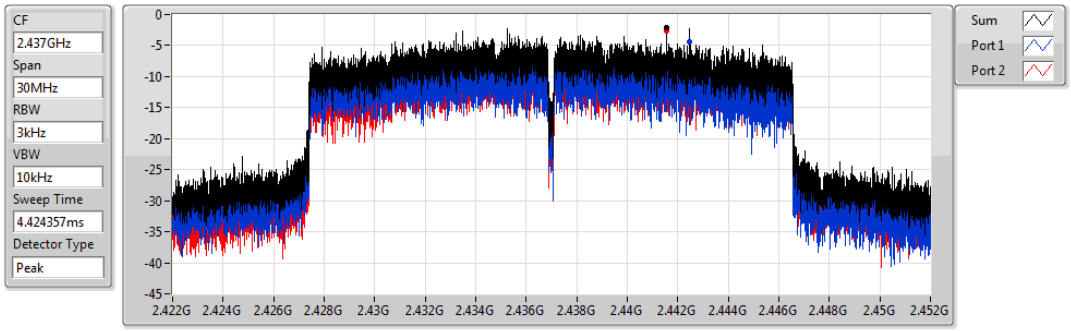
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.01	-7.01	-9.15	-9.13

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

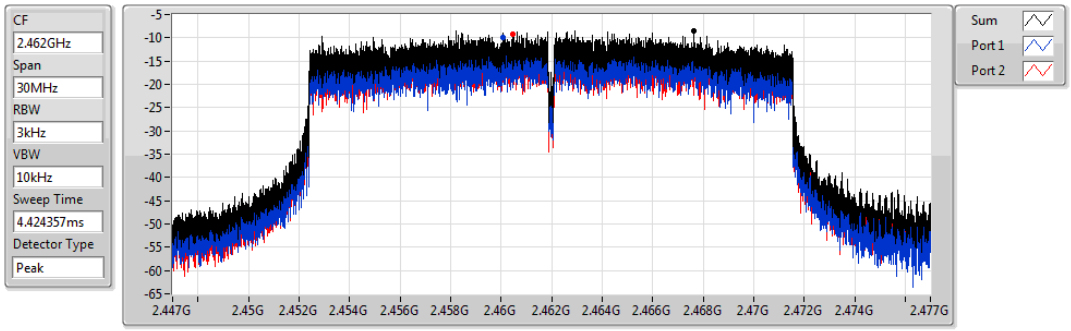
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.12	-2.12	-4.32	-2.69

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

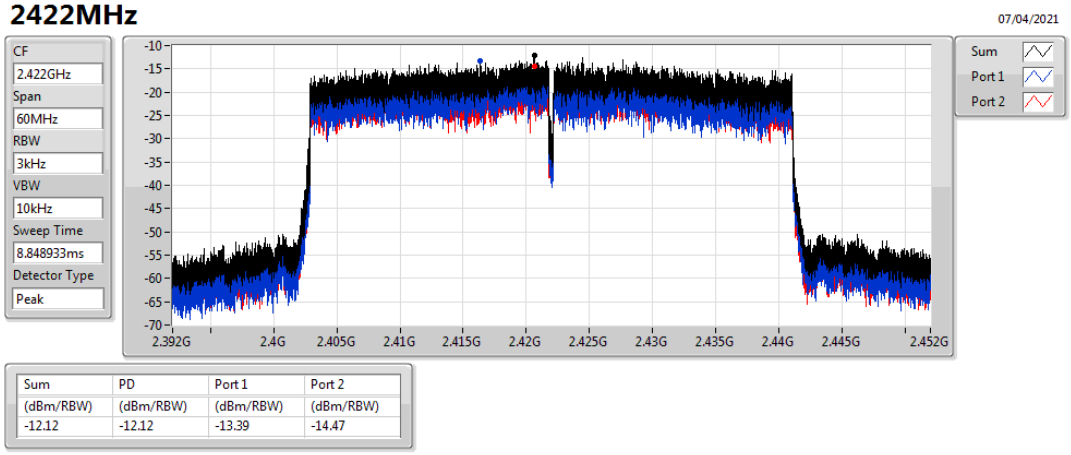
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.50	-8.50	-9.90	-9.33

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

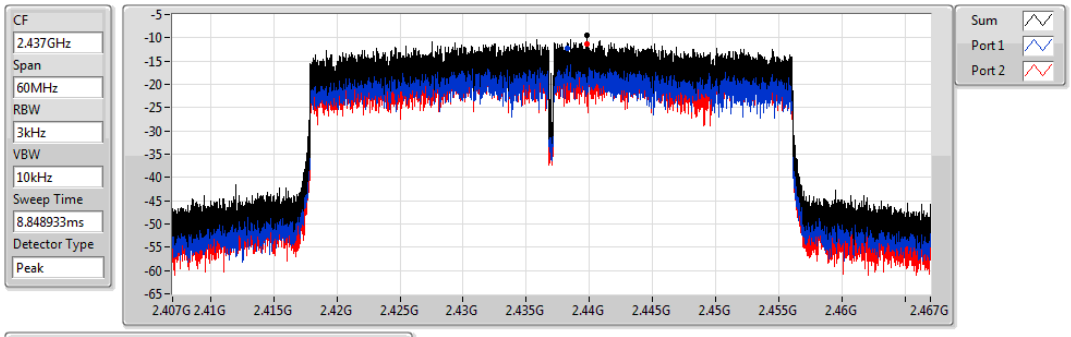
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.12	-12.12	-13.39	-14.47

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

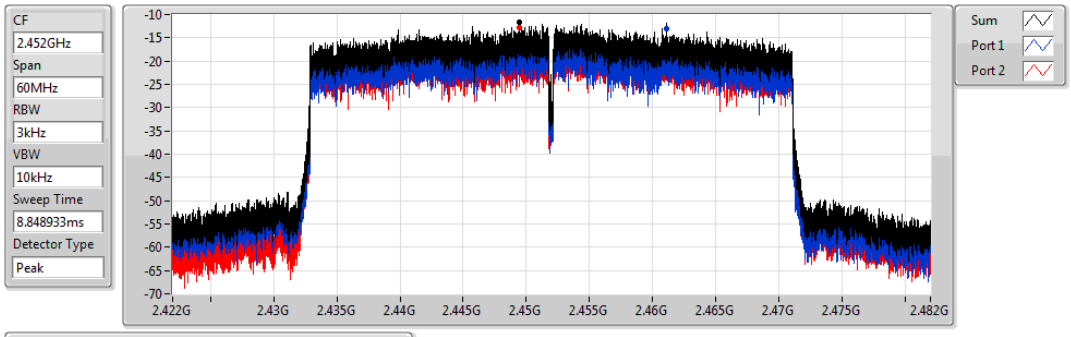
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.39	-9.39	-12.15	-11.27

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.61	-11.61	-12.98	-12.86

Summary

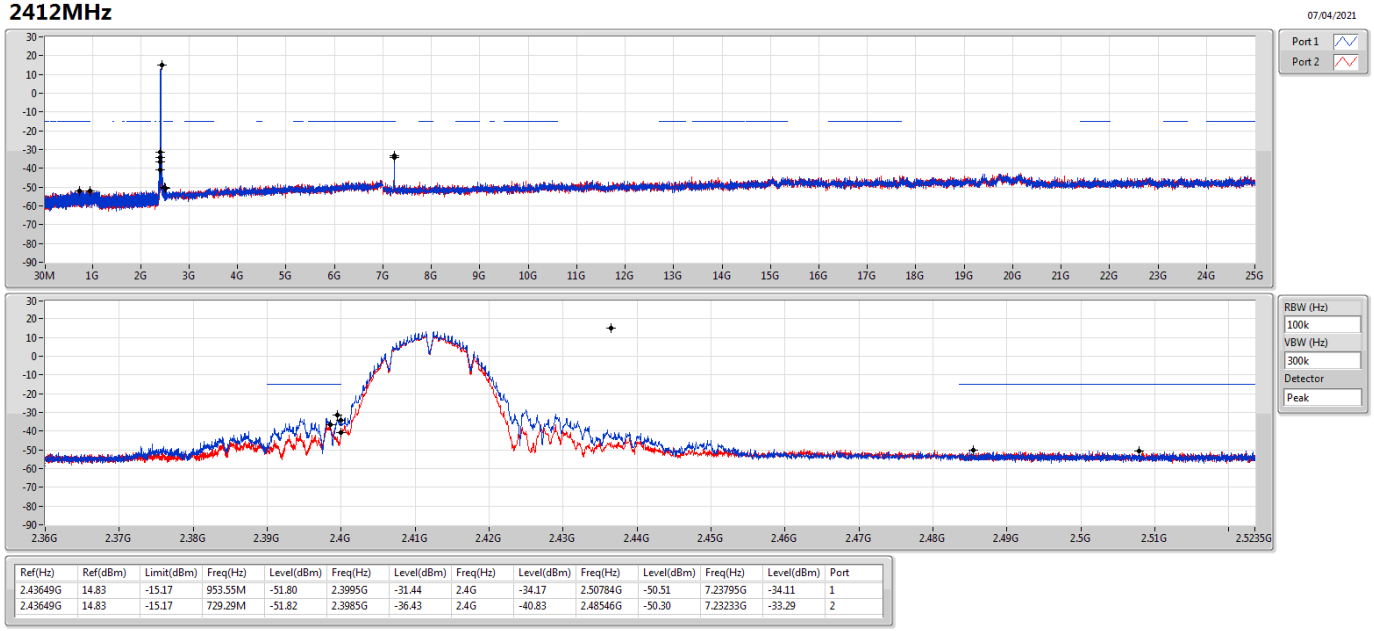
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43649G	14.83	-15.17	953.55M	-51.80	2.3995G	-31.44	2.4G	-34.17	2.50784G	-50.51	7.23795G	-34.11	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.4357G	13.07	-16.93	873.46M	-51.31	2.39918G	-24.11	2.4G	-26.70	2.50004G	-50.74	7.23795G	-39.26	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.4357G	11.97	-18.03	2.18525G	-52.11	2.39898G	-25.25	2.4G	-29.33	2.50124G	-50.10	23.51374G	-43.38	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.43198G	4.55	-25.45	732.17M	-50.88	2.39952G	-26.79	2.4G	-32.08	2.4857G	-38.25	24.90745G	-44.22	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43649G	14.83	-15.17	953.55M	-51.80	2.3995G	-31.44	2.4G	-34.17	2.50784G	-50.51	7.23795G	-34.11	1
2412MHz	Pass	2.43649G	14.83	-15.17	729.29M	-51.82	2.3985G	-36.43	2.4G	-40.83	2.48546G	-50.30	7.23233G	-33.29	2
2437MHz	Pass	2.43649G	14.83	-15.17	597.65M	-50.29	2.39948G	-38.77	2.4G	-39.66	2.48398G	-43.23	24.76681G	-43.74	1
2437MHz	Pass	2.43649G	14.83	-15.17	856.86M	-52.03	2.3995G	-35.10	2.4G	-37.03	2.487G	-38.48	17.06018G	-43.70	2
2462MHz	Pass	2.43649G	14.83	-15.17	804.43M	-51.99	2.39928G	-51.13	2.4835G	-45.11	2.48848G	-43.07	24.72466G	-44.15	1
2462MHz	Pass	2.43649G	14.83	-15.17	808.51M	-51.95	2.39716G	-50.96	2.4835G	-47.57	2.49038G	-46.06	17.33551G	-44.30	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4357G	13.07	-16.93	873.46M	-51.31	2.39918G	-24.11	2.4G	-26.70	2.50004G	-50.74	7.23795G	-39.26	1
2412MHz	Pass	2.4357G	13.07	-16.93	2.14098G	-51.95	2.39984G	-24.22	2.4G	-29.51	2.48998G	-49.64	7.23233G	-41.78	2
2437MHz	Pass	2.4357G	13.07	-16.93	832.39M	-51.72	2.39988G	-33.91	2.4G	-36.97	2.48444G	-37.66	16.92251G	-44.37	1
2437MHz	Pass	2.4357G	13.07	-16.93	2.30845G	-51.59	2.39984G	-32.73	2.4G	-35.83	2.48414G	-35.85	24.87919G	-43.79	2
2462MHz	Pass	2.4357G	13.07	-16.93	2.09962G	-51.27	2.39896G	-50.41	2.4835G	-38.80	2.4842G	-37.72	21.47681G	-44.31	1
2462MHz	Pass	2.4357G	13.07	-16.93	574.93M	-51.62	2.39436G	-51.13	2.4835G	-42.27	2.4836G	-39.90	16.67527G	-44.26	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4357G	11.97	-18.03	2.18525G	-52.11	2.39898G	-25.25	2.4G	-29.33	2.50124G	-50.10	23.51374G	-43.38	1
2412MHz	Pass	2.4357G	11.97	-18.03	753.47M	-51.78	2.39938G	-28.11	2.4G	-30.18	2.48362G	-49.39	17.31023G	-42.84	2
2437MHz	Pass	2.4357G	11.97	-18.03	2.30874G	-51.90	2.4G	-35.45	2.4G	-37.38	2.48386G	-40.24	15.29577G	-44.05	1
2437MHz	Pass	2.4357G	11.97	-18.03	688.23M	-51.72	2.39908G	-33.28	2.4G	-37.05	2.48588G	-37.27	17.32147G	-43.20	2
2462MHz	Pass	2.4357G	11.97	-18.03	828.9M	-52.11	2.39898G	-48.31	2.4835G	-41.82	2.48452G	-39.48	14.91367G	-43.65	1
2462MHz	Pass	2.4357G	11.97	-18.03	832.69M	-52.33	2.39978G	-49.16	2.4835G	-40.64	2.4844G	-36.88	21.59481G	-43.65	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	4.55	-25.45	916.8M	-51.53	2.39604G	-35.68	2.4G	-40.56	2.48682G	-49.36	23.31165G	-44.09	1
2422MHz	Pass	2.43198G	4.55	-25.45	1.80132G	-51.89	2.3998G	-35.24	2.4G	-38.61	2.4895G	-49.36	23.47432G	-44.50	2
2437MHz	Pass	2.43198G	4.55	-25.45	732.17M	-50.88	2.39952G	-26.79	2.4G	-32.08	2.4857G	-38.25	24.90745G	-44.22	1
2437MHz	Pass	2.43198G	4.55	-25.45	1.82794G	-52.41	2.39968G	-31.38	2.4G	-32.11	2.48534G	-39.24	21.83926G	-42.69	2
2452MHz	Pass	2.43198G	4.55	-25.45	2.12993G	-50.35	2.39664G	-47.01	2.4835G	-37.02	2.48794G	-36.45	23.4603G	-44.00	1
2452MHz	Pass	2.43198G	4.55	-25.45	790.85M	-51.99	2.39476G	-44.30	2.4835G	-38.54	2.48446G	-37.95	23.41542G	-43.74	2

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

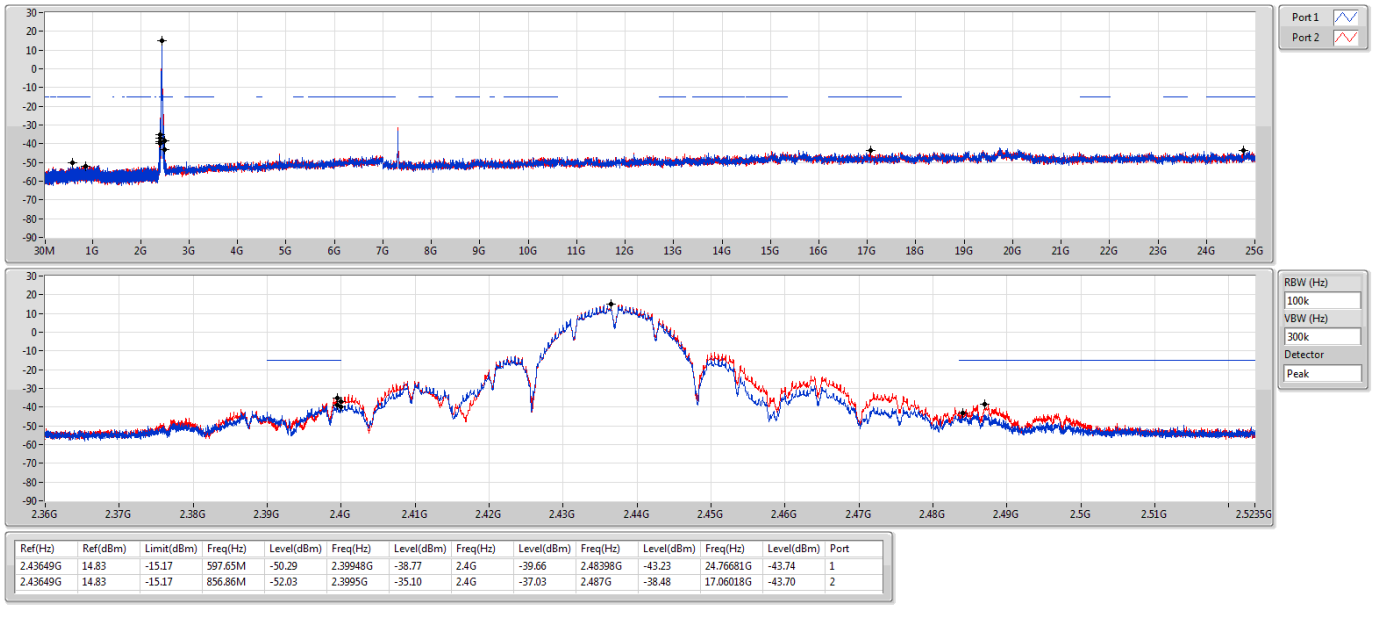
2412MHz



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
2.43649G	14.83	-15.17	953.55M	-51.80	2.3995G	-31.44	2.4G	-34.17	2.50784G	-50.51	7.23795G	-34.11	1
2.43649G	14.83	-15.17	729.29M	-51.82	2.3985G	-36.43	2.4G	-40.83	2.48546G	-50.30	7.23233G	-33.29	2

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

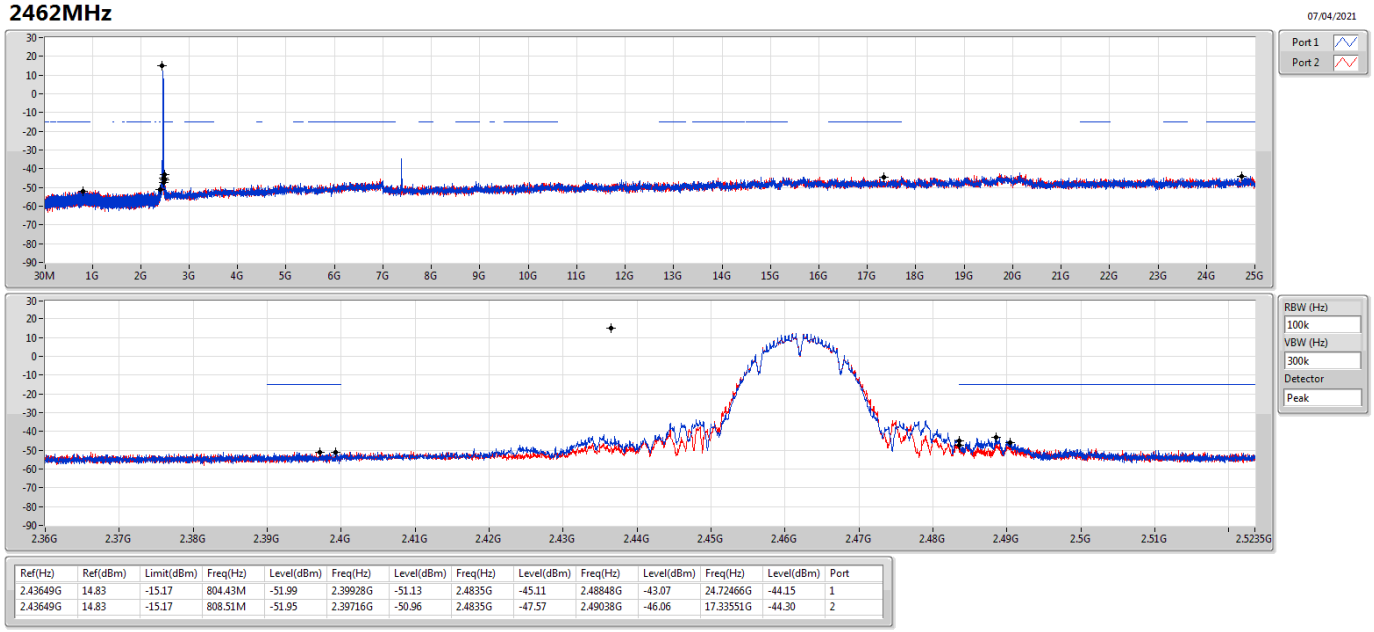
2437MHz



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
2.43649G	14.83	-15.17	597.65M	-50.29	2.39948G	-38.77	2.4G	-39.66	2.48398G	-43.23	24.76681G	-43.74	1
2.43649G	14.83	-15.17	856.86M	-52.03	2.3995G	-35.10	2.4G	-37.03	2.487G	-38.48	17.06018G	-43.70	2

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

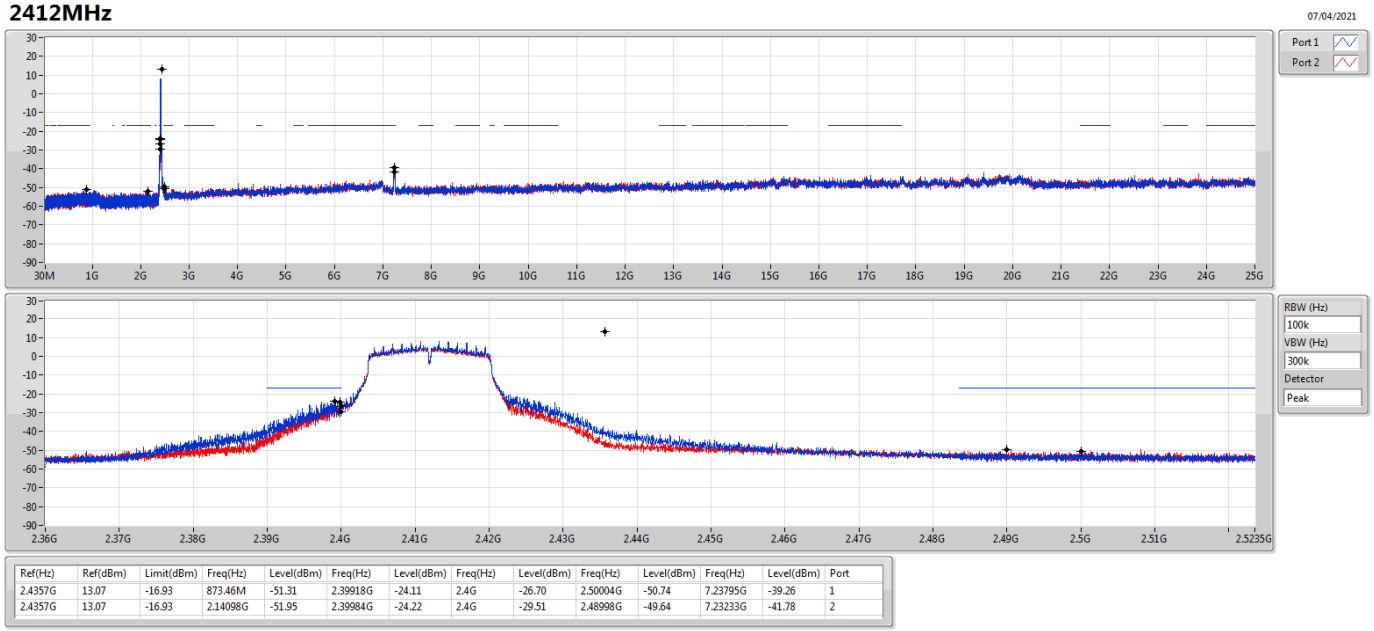
2462MHz



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
2.43649G	14.83	-15.17	804.43M	-51.99	2.39928G	-51.13	2.4835G	-45.11	2.48848G	-43.07	24.72466G	-44.15	1
2.43649G	14.83	-15.17	808.51M	-51.95	2.39716G	-50.96	2.4835G	-47.57	2.49038G	-46.06	17.33551G	-44.30	2

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

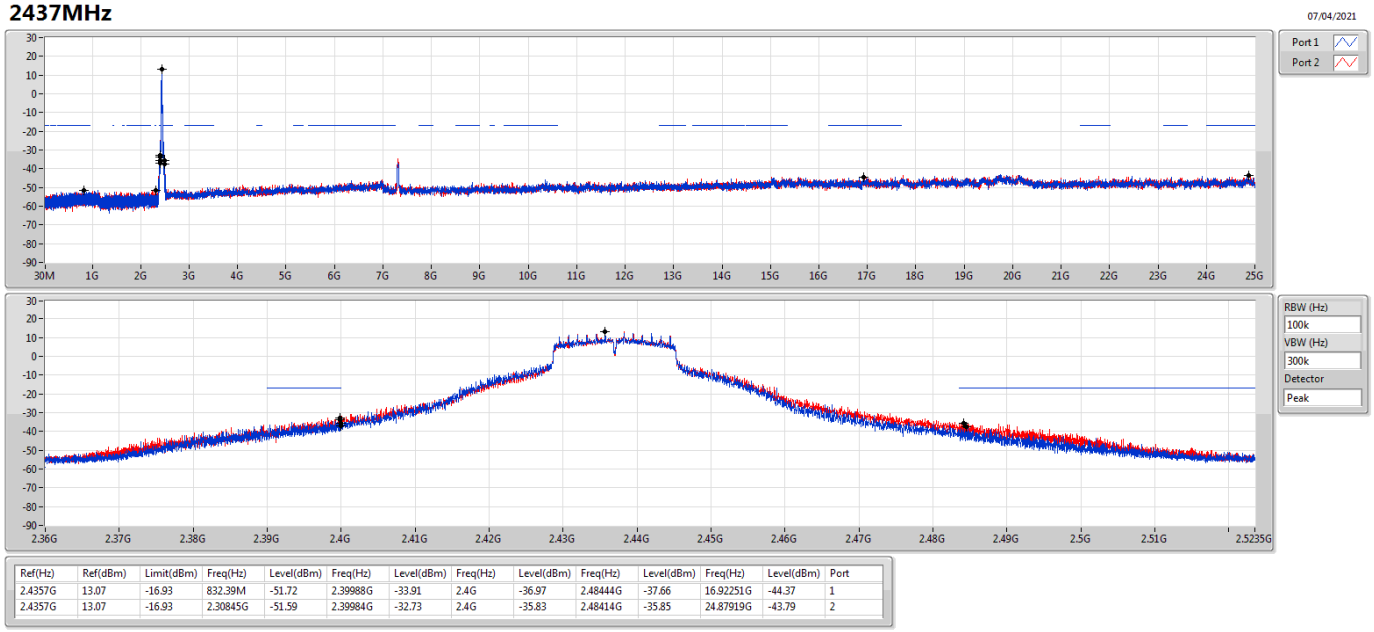
2412MHz



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
2.4357G	13.07	-16.93	873.46M	-51.31	2.39918G	-24.11	2.4G	-26.70	2.50004G	-50.74	7.23795G	-39.26	1
2.4357G	13.07	-16.93	2.14098G	-51.95	2.39984G	-24.22	2.4G	-29.51	2.48998G	-49.64	7.23233G	-41.78	2

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

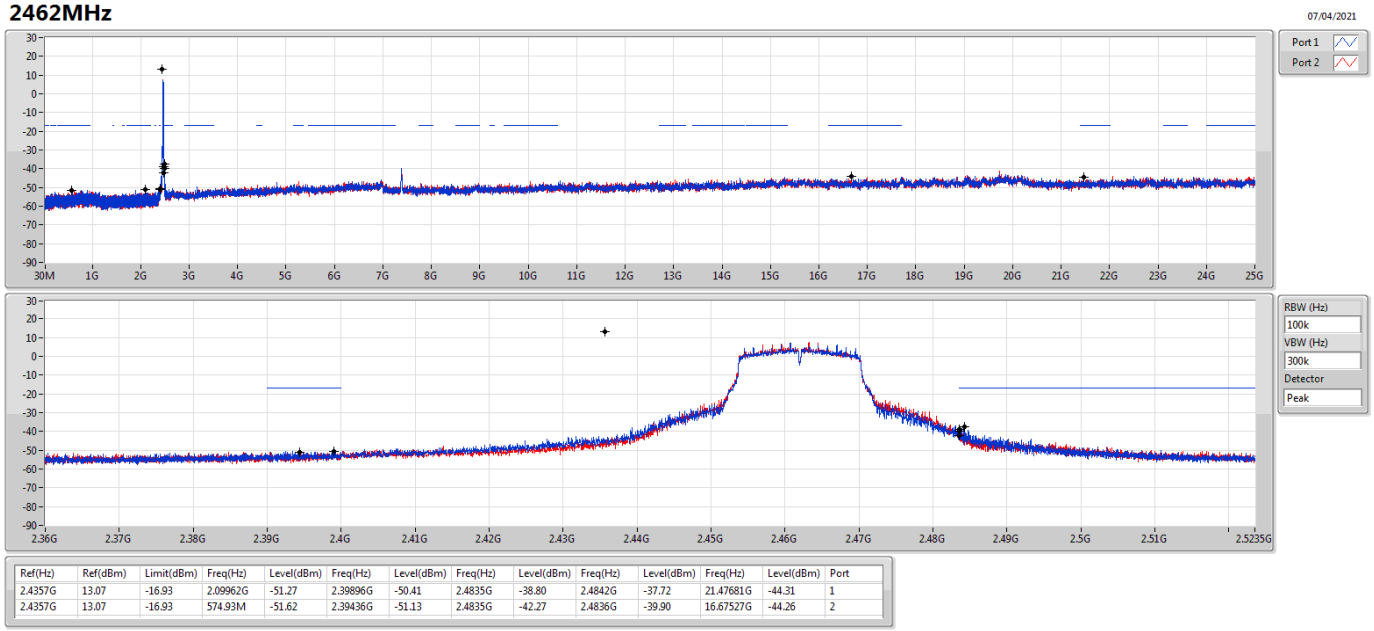
2437MHz



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
2.4357G	13.07	-16.93	832.39M	-51.72	2.39988G	-33.91	2.4G	-36.97	2.48444G	-37.66	16.92251G	-44.37	1
2.4357G	13.07	-16.93	2.30845G	-51.59	2.39984G	-32.73	2.4G	-35.83	2.48414G	-35.85	24.87919G	-43.79	2

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

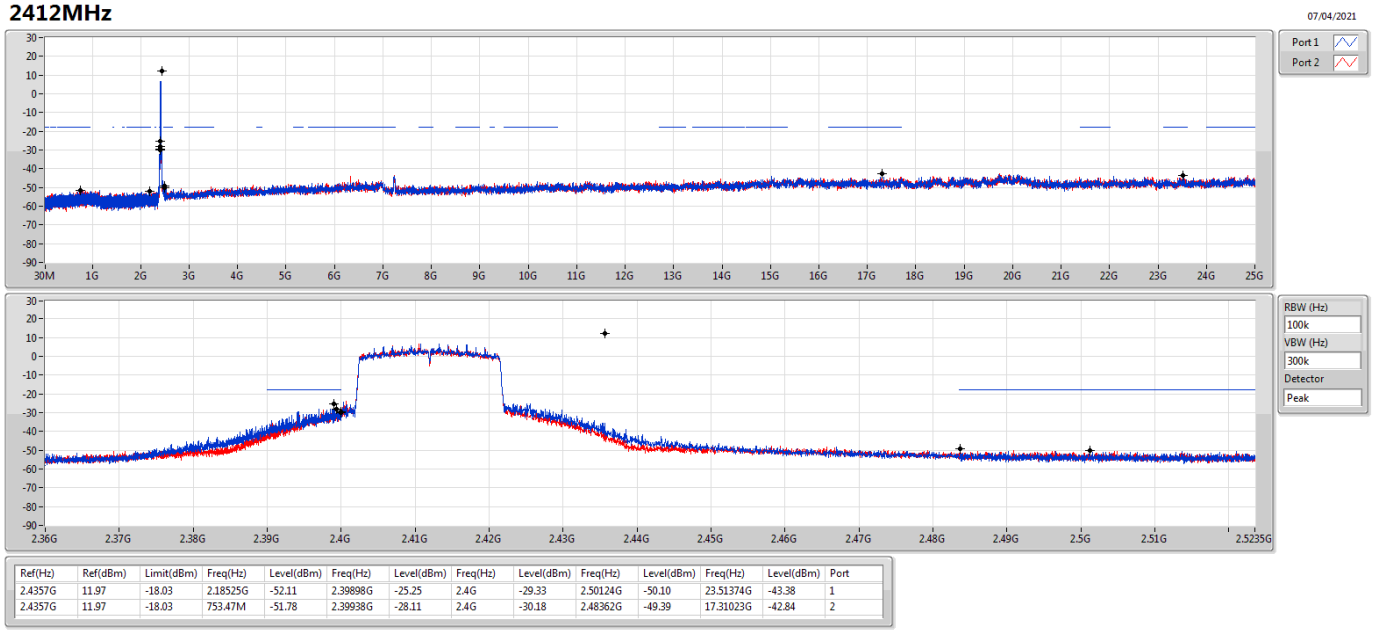
2462MHz



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
2.4357G	13.07	-16.93	2.09962G	-51.27	2.39896G	-50.41	2.4835G	-38.80	2.4842G	-37.72	21.47681G	-44.31	1
2.4357G	13.07	-16.93	574.93M	-51.62	2.39436G	-51.13	2.4835G	-42.27	2.4836G	-39.90	16.67527G	-44.26	2

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE NdB**

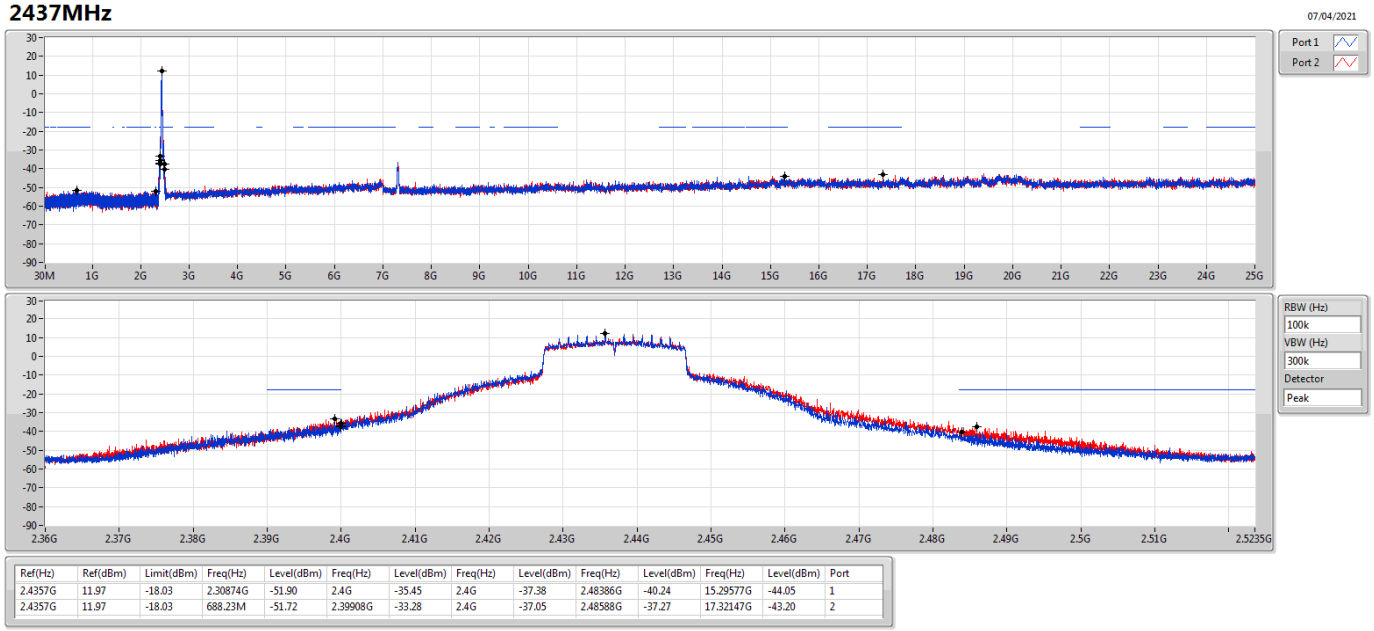
2412MHz



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
2.4357G	11.97	-18.03	2.18525G	-52.11	2.39898G	-25.25	2.4G	-29.33	2.50124G	-50.10	23.51374G	-43.38	1
2.4357G	11.97	-18.03	753.47M	-51.78	2.39938G	-28.11	2.4G	-30.18	2.48362G	-49.39	17.31023G	-42.84	2

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE NdB**

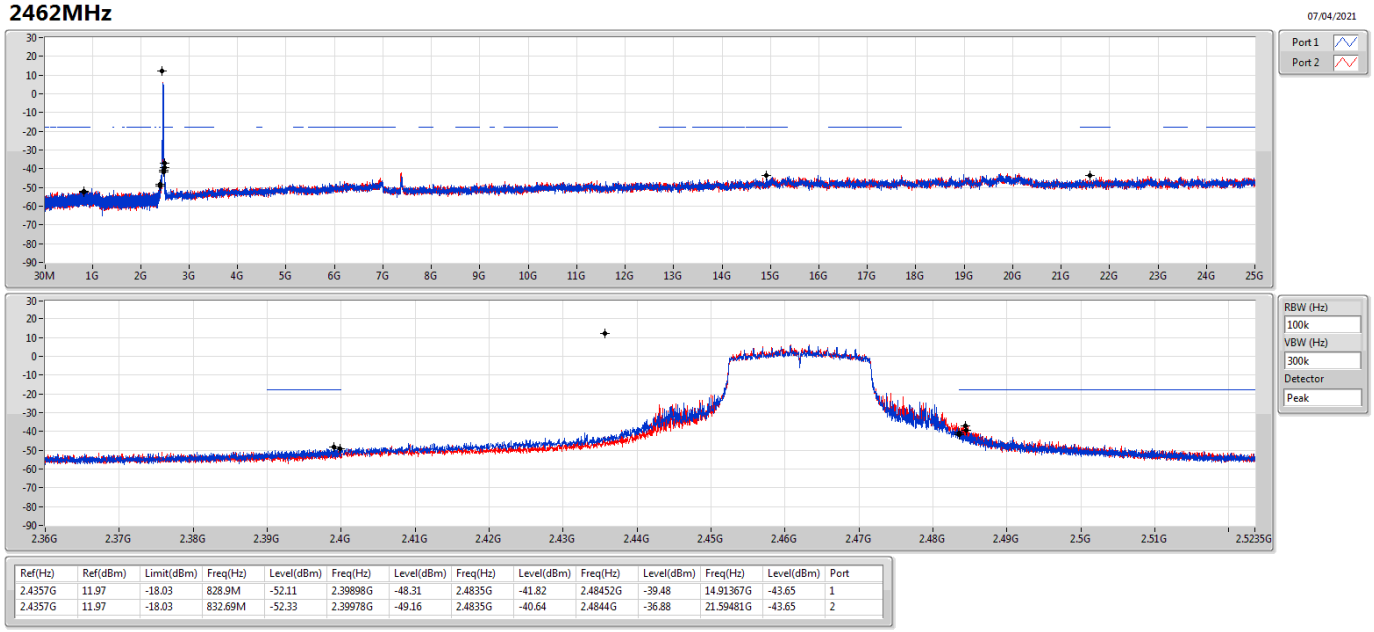
2437MHz



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
2.4357G	11.97	-18.03	2.30874G	-51.90	2.4G	-35.45	2.4G	-37.38	2.48386G	-40.24	15.29577G	-44.05	1
2.4357G	11.97	-18.03	688.23M	-51.72	2.39908G	-33.28	2.4G	-37.05	2.48588G	-37.27	17.32147G	-43.20	2

802.11ax HEW20_Nss1,(MCS0)_2TX **CSE NdB**

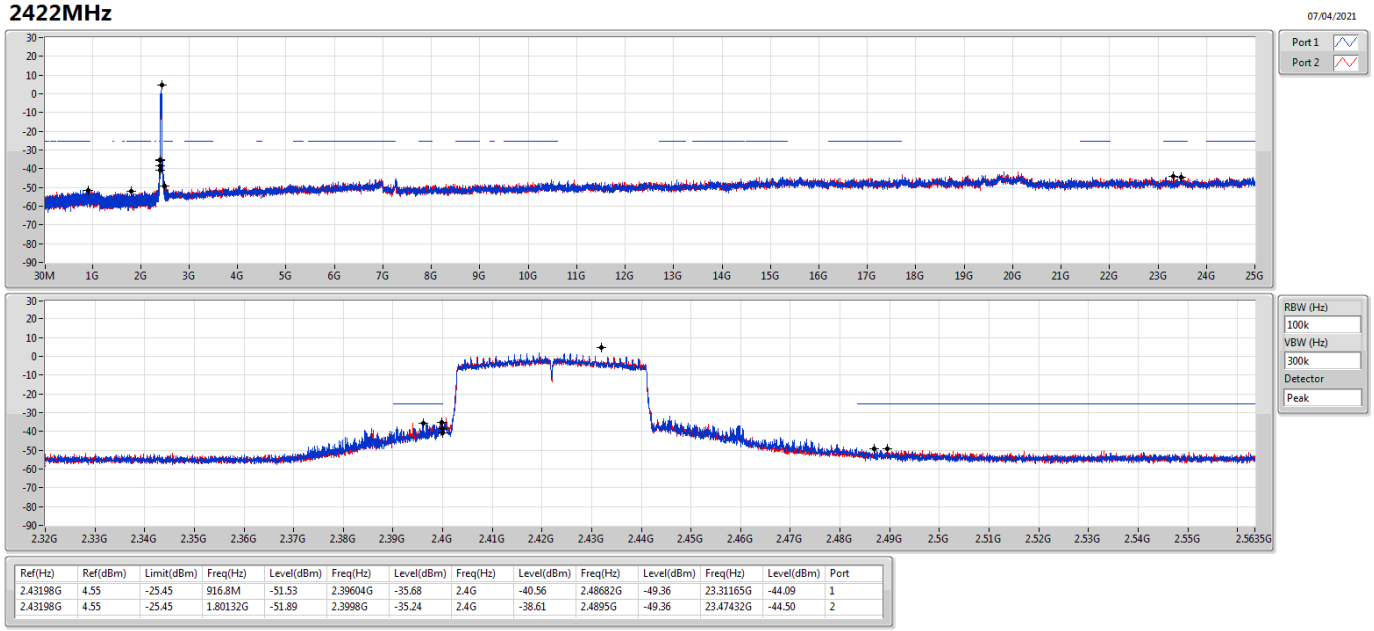
2462MHz



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
2.4357G	11.97	-18.03	828.9M	-52.11	2.39898G	-48.31	2.4835G	-41.82	2.48452G	-39.48	14.91367G	-43.65	1
2.4357G	11.97	-18.03	832.69M	-52.33	2.39978G	-49.16	2.4835G	-40.64	2.4844G	-36.88	21.59481G	-43.65	2

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE NdB**

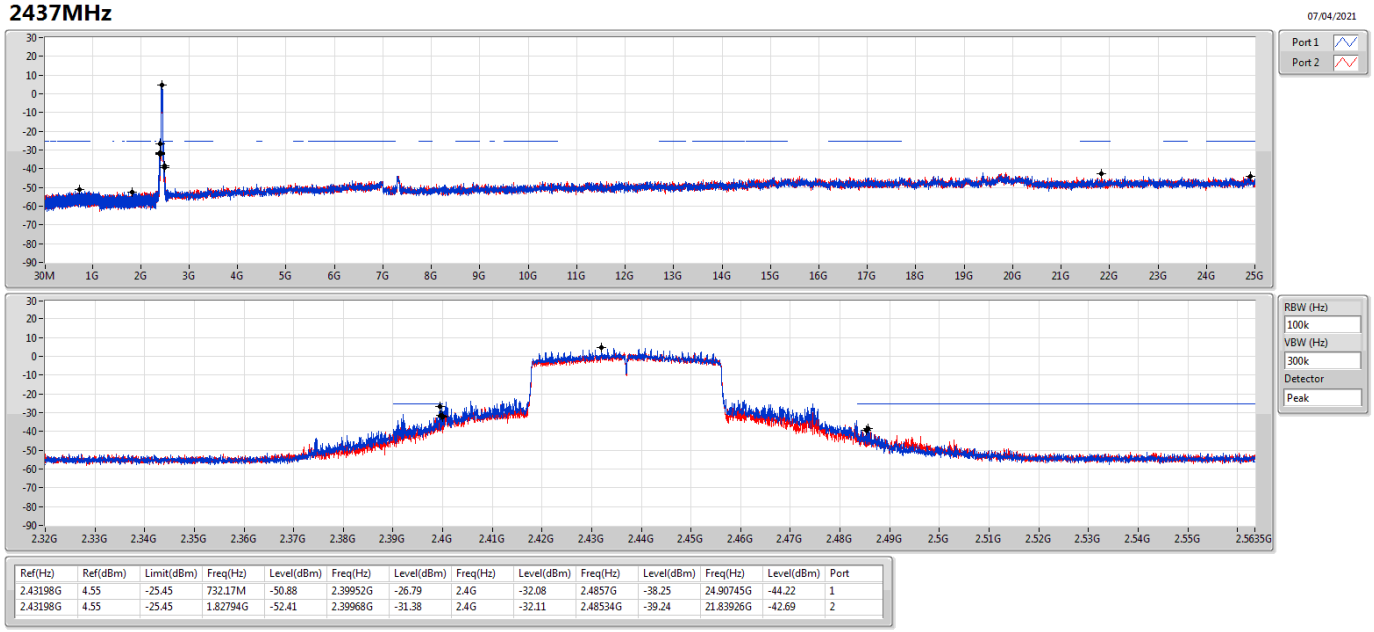
2422MHz



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
2.43198G	4.55	-25.45	916.8M	-51.53	2.39604G	-35.68	2.4G	-40.56	2.48682G	-49.36	23.31165G	-44.09	1
2.43198G	4.55	-25.45	1.80132G	-51.89	2.3998G	-35.24	2.4G	-38.61	2.4895G	-49.36	23.47432G	-44.50	2

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE NdB**

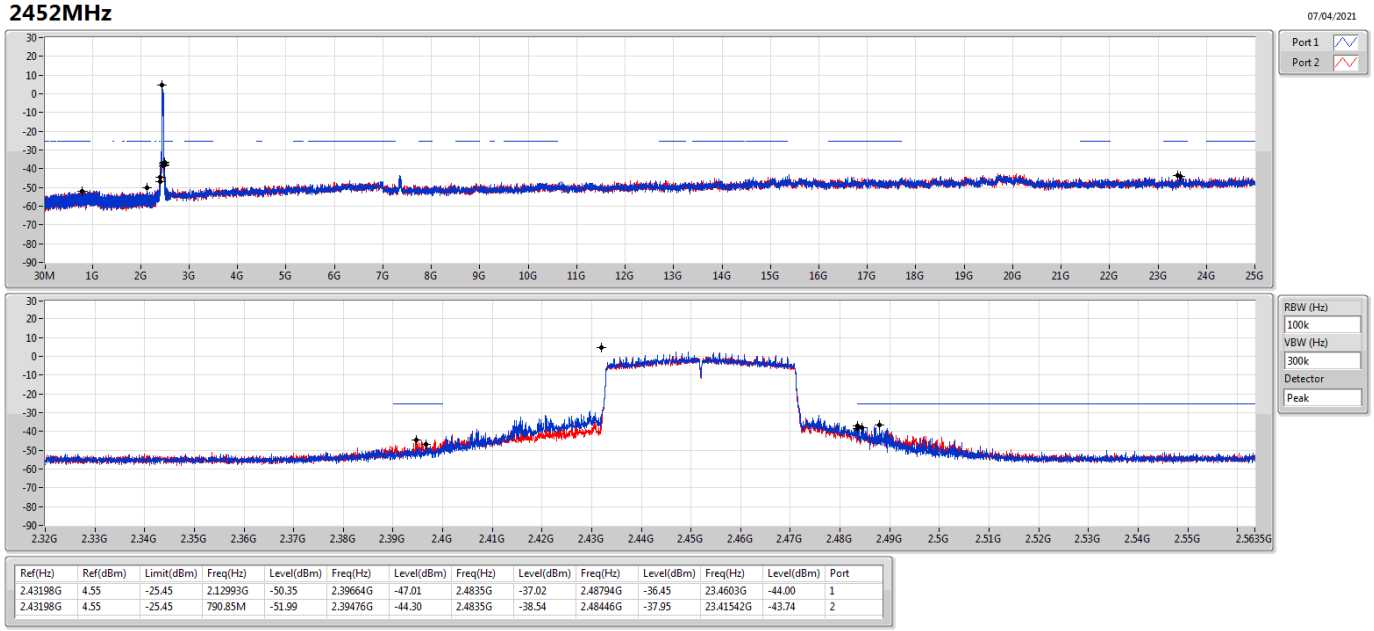
2437MHz



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
2.43198G	4.55	-25.45	732.17M	-50.88	2.39952G	-26.79	2.4G	-32.08	2.4857G	-38.25	24.90745G	-44.22	1
2.43198G	4.55	-25.45	1.82794G	-52.41	2.39968G	-31.38	2.4G	-32.11	2.48534G	-39.24	21.83926G	-42.69	2

802.11ax HEW40_Nss1,(MCS0)_2TX **CSE NdB**

2452MHz



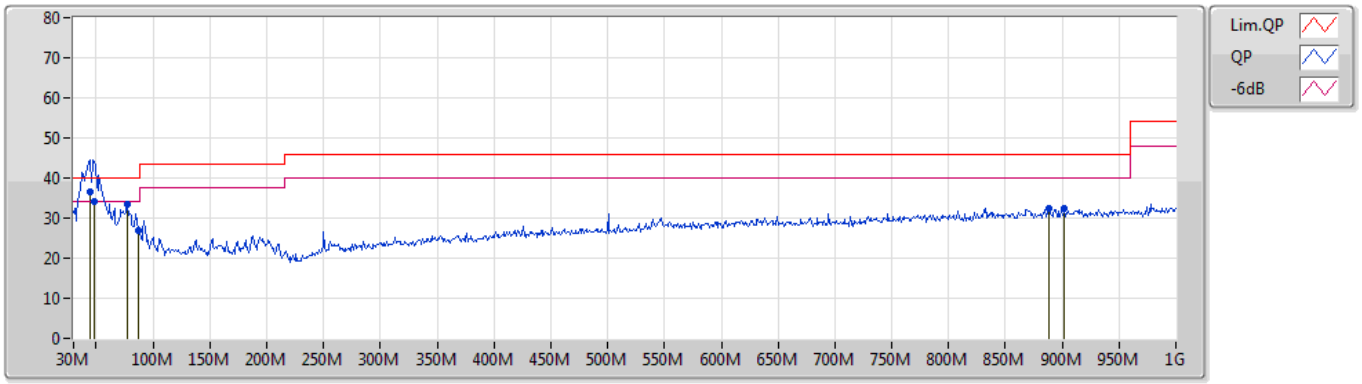
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	4.55	-25.45	2.12993G	-50.35	2.39664G	-47.01	2.4835G	-37.02	2.48794G	-36.45	23.4603G	-44.00	1
2.43198G	4.55	-25.45	790.85M	-51.99	2.39476G	-44.30	2.4835G	-38.54	2.48446G	-37.95	23.41542G	-43.74	2

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	PK	36.79M	36.83	40.00	-3.17	Horizontal

Mode 3

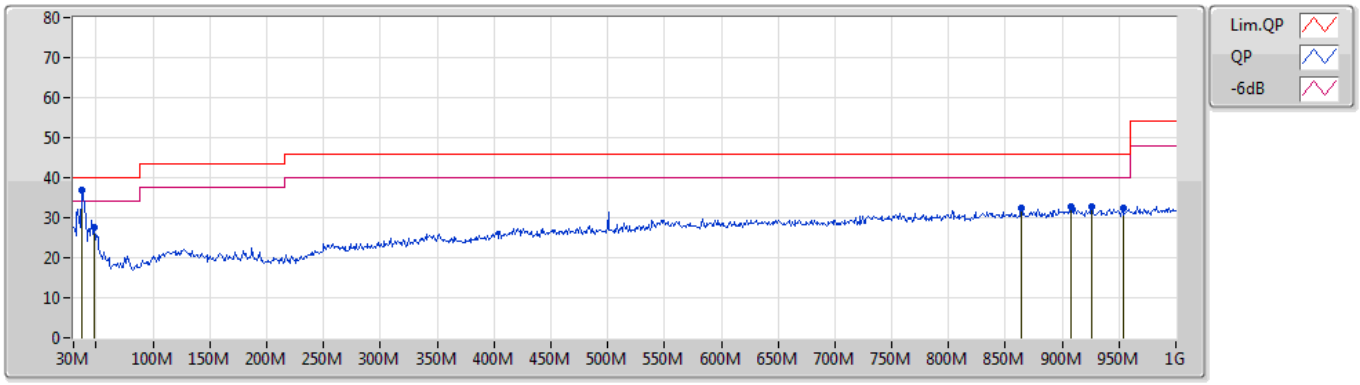
22/03/2021



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)
QP	44.55M	36.64	40.00	-3.36	-11.22	3	Vertical	0	1.00	"Worst"	47.86	16.87	0.39	28.48
QP	48.43M	34.17	40.00	-5.83	-13.38	3	Vertical	360	1.00	-	47.55	14.71	0.40	28.49
PK	77.53M	33.38	40.00	-6.62	-15.38	3	Vertical	169	1.25	-	48.76	12.50	0.60	28.48
PK	87.23M	26.98	40.00	-13.02	-13.62	3	Vertical	109	1.25	-	40.60	14.15	0.70	28.47
PK	888.45M	32.46	46.00	-13.54	0.29	3	Vertical	0	2.00	-	32.17	25.57	3.48	28.76
PK	902.03M	32.28	46.00	-13.72	0.56	3	Vertical	121	1.50	-	31.72	25.76	3.50	28.70

Mode 3

22/03/2021



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	36.83	40.00	-3.17	-7.46	3	Horizontal	12	3.00	"Worst"	44.29	20.78	0.24	28.48
PK	48.43M	27.72	40.00	-12.28	-13.38	3	Horizontal	20	2.00	-	41.10	14.71	0.40	28.49
PK	864.2M	32.29	46.00	-13.71	0.15	3	Horizontal	70	3.00	-	32.14	25.58	3.43	28.86
PK	907.85M	32.60	46.00	-13.40	0.57	3	Horizontal	11	1.50	-	32.03	25.76	3.50	28.69
PK	926.28M	32.67	46.00	-13.33	0.63	3	Horizontal	177	1.50	-	32.04	25.76	3.50	28.63
PK	953.44M	32.55	46.00	-13.45	0.89	3	Horizontal	312	1.50	-	31.66	25.93	3.51	28.55

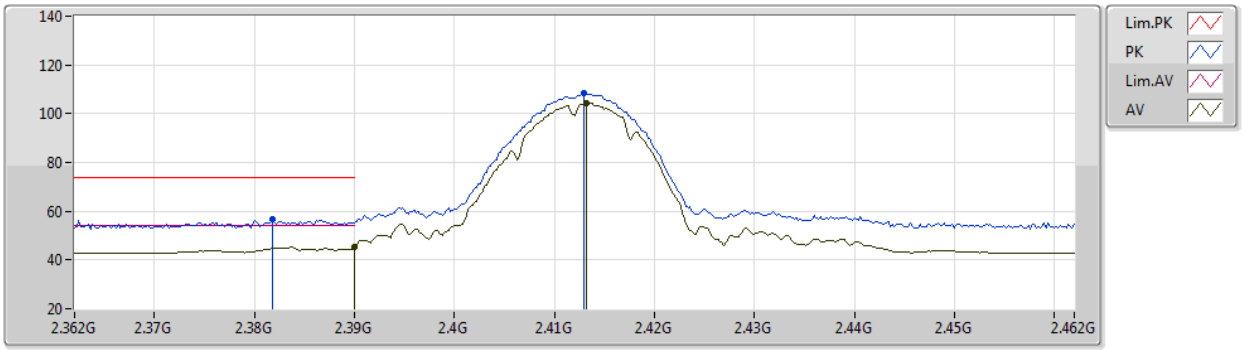
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	2.484G	53.99	54.00	-0.01	3	Horizontal	305	1.15	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

30/03/2021



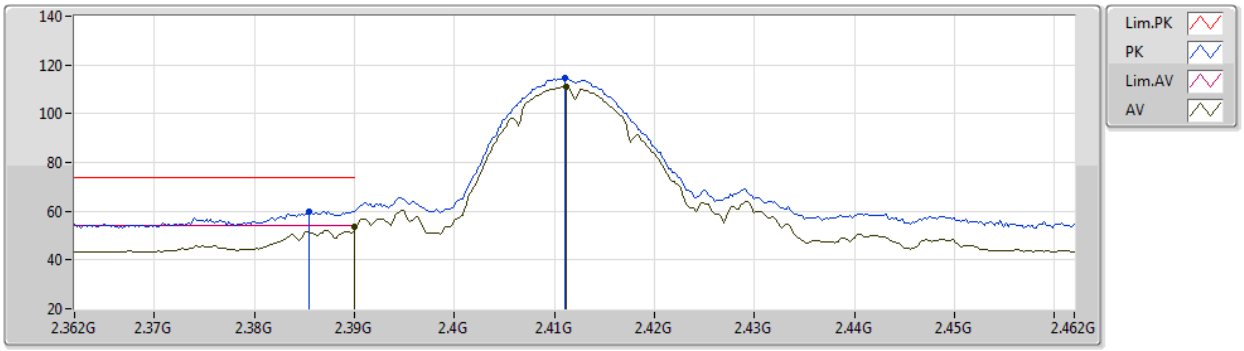
EUT Y_2TX
Setting 17.5
06-D-S-5

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	2.3818G	56.65	74.00	-17.35	25.99	3	Vertical	308	1.81	-	27.60	3.06	-
AV	2.39G	45.19	54.00	-8.81	14.51	3	Vertical	308	1.81	-	27.60	3.08	-
PK	2.413G	108.49	Inf	-Inf	77.83	3	Vertical	308	1.81	-	27.55	3.11	-
AV	2.4132G	104.34	Inf	-Inf	73.68	3	Vertical	308	1.81	-	27.55	3.11	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

30/03/2021



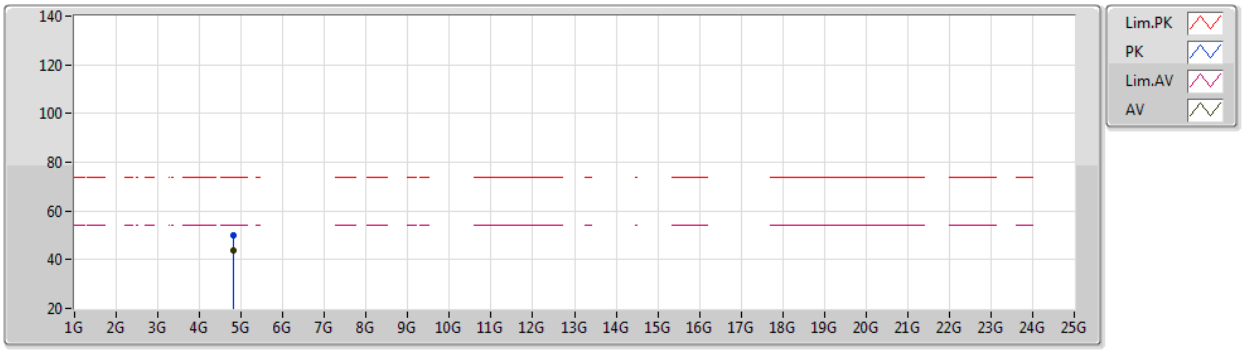
EUT Y_2TX
Setting 17.5
06-D-S-5

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	2.3854G	59.94	74.00	-14.06	29.27	3	Horizontal	317	2.46	-	27.60	3.07	-
AV	2.39G	53.77	54.00	-0.23	23.09	3	Horizontal	317	2.46	-	27.60	3.08	-
PK	2.411G	114.81	Inf	-Inf	84.14	3	Horizontal	317	2.46	-	27.56	3.11	-
AV	2.4112G	111.09	Inf	-Inf	80.42	3	Horizontal	317	2.46	-	27.56	3.11	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

30/03/2021



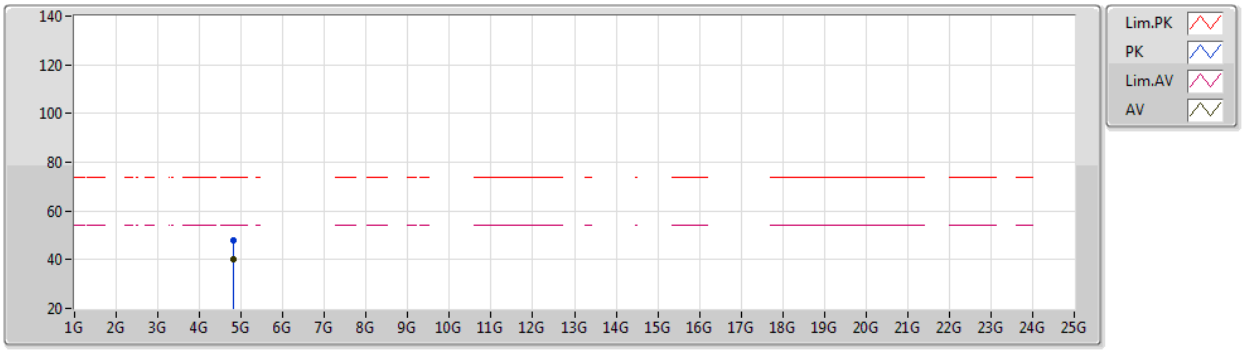
EUT Y_2TX
Setting 17.5
06-D-S-5

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	4.82396G	49.86	74.00	-24.14	45.50	3	Vertical	160	2.25	-	31.10	5.00	31.74
AV	4.82395G	43.56	54.00	-10.44	39.20	3	Vertical	160	2.25	-	31.10	5.00	31.74

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

30/03/2021



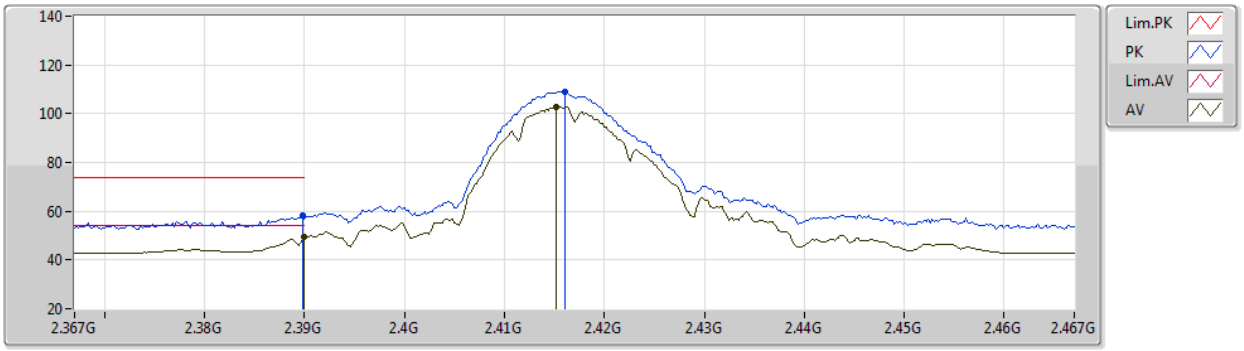
EUT Y_2TX
Setting 17.5
06-D-S-5

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	4.82368G	47.80	74.00	-26.20	43.46	3	Horizontal	193	1.01	-	31.09	5.00	31.75
AV	4.82396G	40.19	54.00	-13.81	35.83	3	Horizontal	193	1.01	-	31.10	5.00	31.74

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

15/03/2021



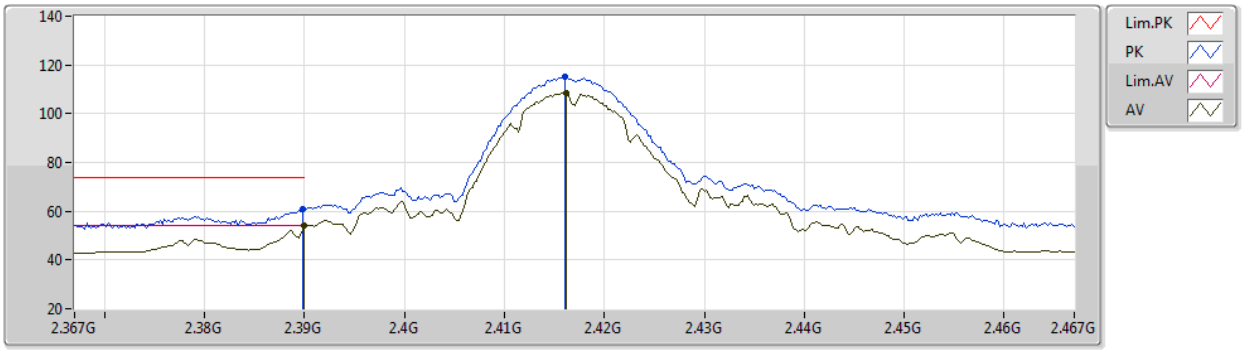
EUT Y_2TX
Setting 18
06-D-S-5

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	2.3898G	58.32	74.00	-15.68	27.64	3	Vertical	181	1.83	-	27.60	3.08	-
AV	2.39G	49.35	54.00	-4.65	18.67	3	Vertical	181	1.83	-	27.60	3.08	-
PK	2.416G	109.08	Inf	-Inf	78.42	3	Vertical	181	1.83	-	27.54	3.12	-
AV	2.4152G	102.96	Inf	-Inf	72.30	3	Vertical	181	1.83	-	27.54	3.12	-

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

15/03/2021



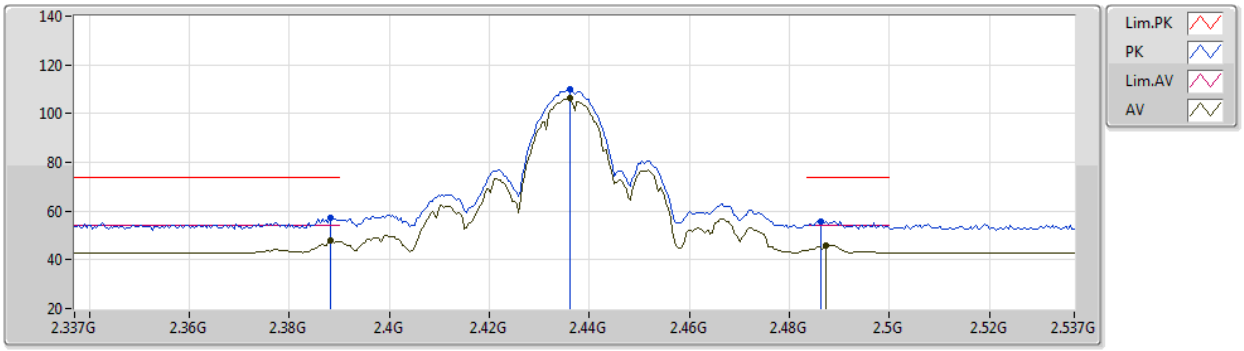
EUT Y_2TX
Setting 18
06-D-S-5

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	2.3898G	60.68	74.00	-13.32	30.00	3	Horizontal	328	2.42	-	27.60	3.08	-
AV	2.39G	53.96	54.00	-0.04	23.28	3	Horizontal	328	2.42	-	27.60	3.08	-
PK	2.416G	115.13	Inf	-Inf	84.47	3	Horizontal	328	2.42	-	27.54	3.12	-
AV	2.4162G	108.68	Inf	-Inf	78.02	3	Horizontal	328	2.42	-	27.54	3.12	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

30/03/2021



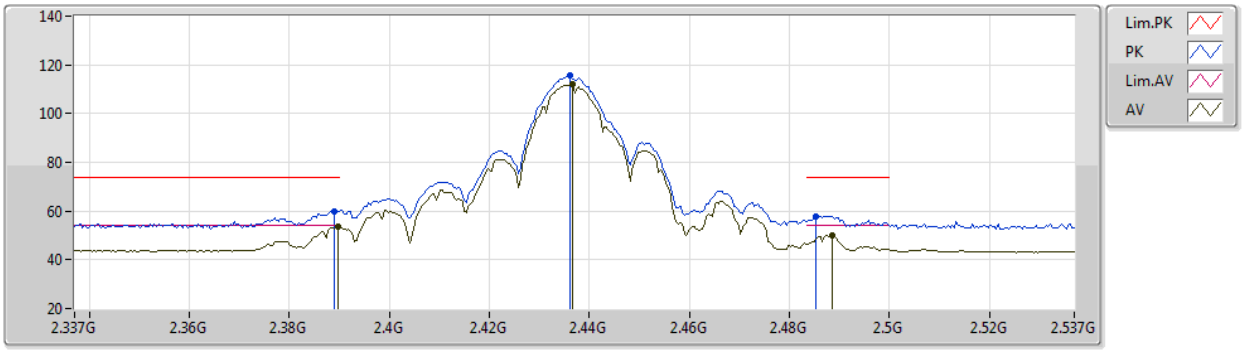
EUT Y_2TX
Setting 19.5
06-D-S-5

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	2.3882G	57.07	74.00	-16.93	26.39	3	Vertical	150	1.00	-	27.60	3.08	-
AV	2.3882G	47.74	54.00	-6.26	17.06	3	Vertical	150	1.00	-	27.60	3.08	-
PK	2.4362G	110.00	Inf	-Inf	79.40	3	Vertical	150	1.00	-	27.46	3.14	-
AV	2.4362G	106.13	Inf	-Inf	75.53	3	Vertical	150	1.00	-	27.46	3.14	-
PK	2.4862G	55.83	74.00	-18.17	25.24	3	Vertical	150	1.00	-	27.40	3.19	-
AV	2.4874G	45.89	54.00	-8.11	15.30	3	Vertical	150	1.00	-	27.40	3.19	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

30/03/2021



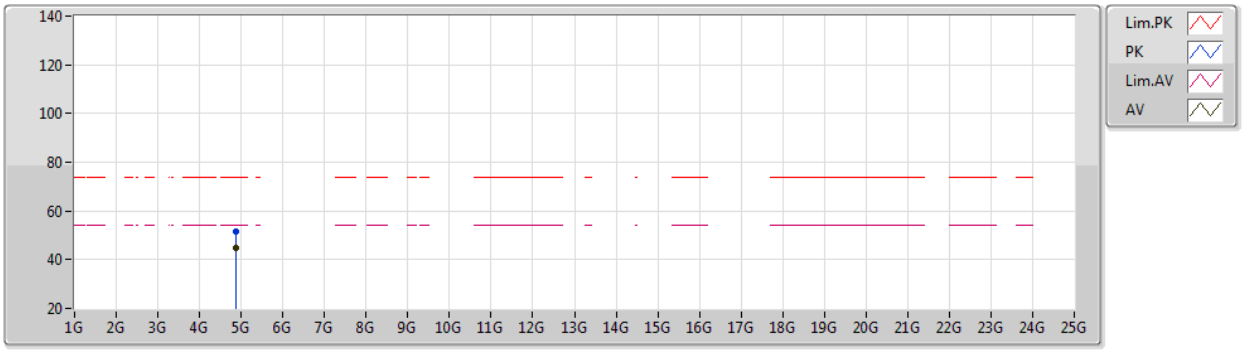
EUT Y_2TX
Setting 19.5
06-D-S-5

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	59.94	74.00	-14.06	29.26	3	Horizontal	327	2.68	-	27.60	3.08	-
AV	2.3898G	53.79	54.00	-0.21	23.11	3	Horizontal	327	2.68	-	27.60	3.08	-
PK	2.4362G	115.45	Inf	-Inf	84.85	3	Horizontal	327	2.68	-	27.46	3.14	-
AV	2.4366G	111.96	Inf	-Inf	81.37	3	Horizontal	327	2.68	-	27.45	3.14	-
PK	2.4854G	58.00	74.00	-16.00	27.41	3	Horizontal	327	2.68	-	27.40	3.19	-
AV	2.4886G	50.13	54.00	-3.87	19.54	3	Horizontal	327	2.68	-	27.40	3.19	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

30/03/2021



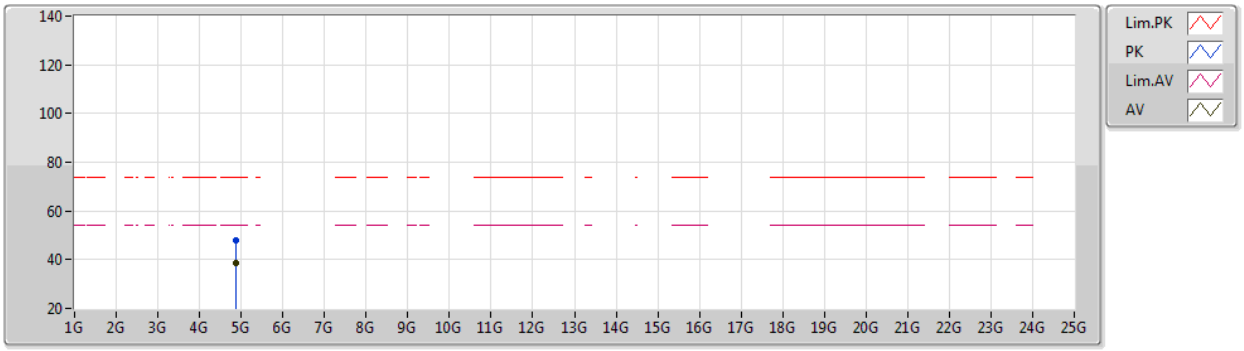
EUT Y_2TX
Setting 19.5
06-D-S-5

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	4.87404G	51.54	74.00	-22.46	47.07	3	Vertical	23	1.43	-	31.15	5.00	31.68
AV	4.87394G	44.61	54.00	-9.39	40.14	3	Vertical	23	1.43	-	31.15	5.00	31.68

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

30/03/2021



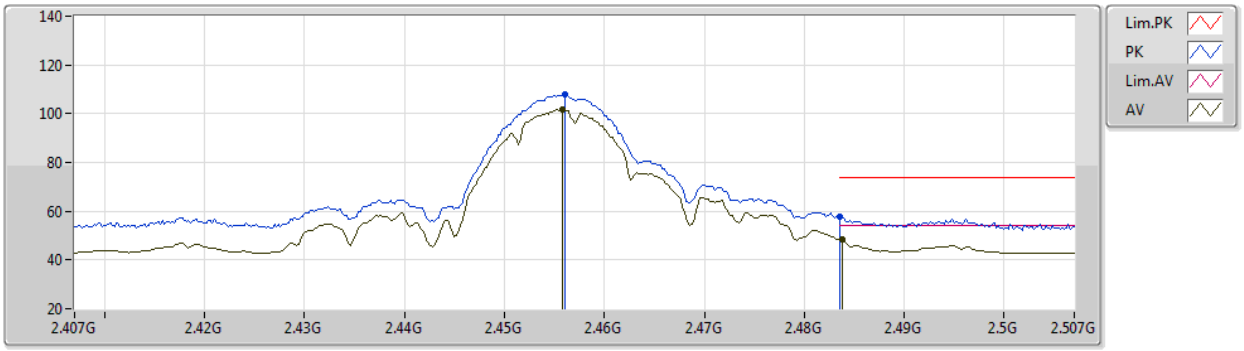
EUT Y_2TX
Setting 19.5
06-D-S-5

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	4.87398G	47.68	74.00	-26.32	43.21	3	Horizontal	179	2.02	-	31.15	5.00	31.68
AV	4.87396G	38.67	54.00	-15.33	34.20	3	Horizontal	179	2.02	-	31.15	5.00	31.68

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

15/03/2021



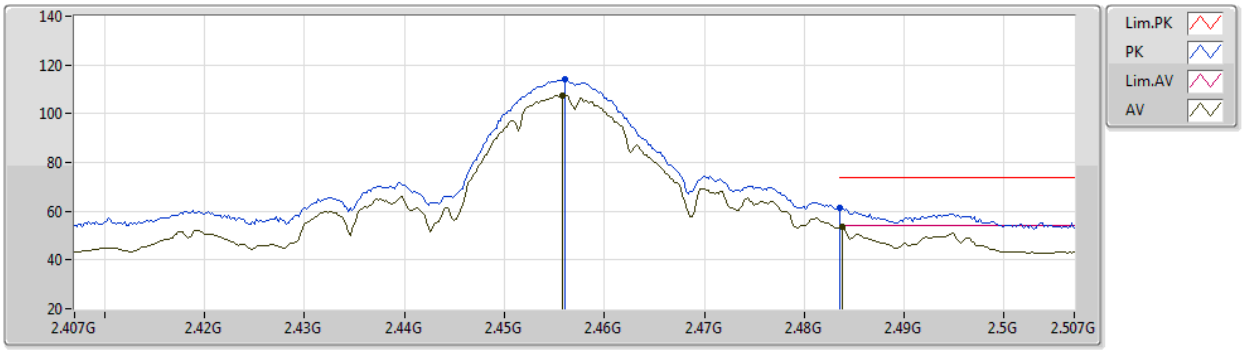
EUT Y_2TX
Setting 18
06-D-S-5

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	2.456G	107.90	Inf	-Inf	77.34	3	Vertical	164	1.80	-	27.40	3.16	-
AV	2.4558G	101.69	Inf	-Inf	71.13	3	Vertical	164	1.80	-	27.40	3.16	-
PK	2.4836G	57.75	74.00	-16.25	27.17	3	Vertical	164	1.80	-	27.40	3.18	-
AV	2.4838G	48.69	54.00	-5.31	18.11	3	Vertical	164	1.80	-	27.40	3.18	-

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

15/03/2021



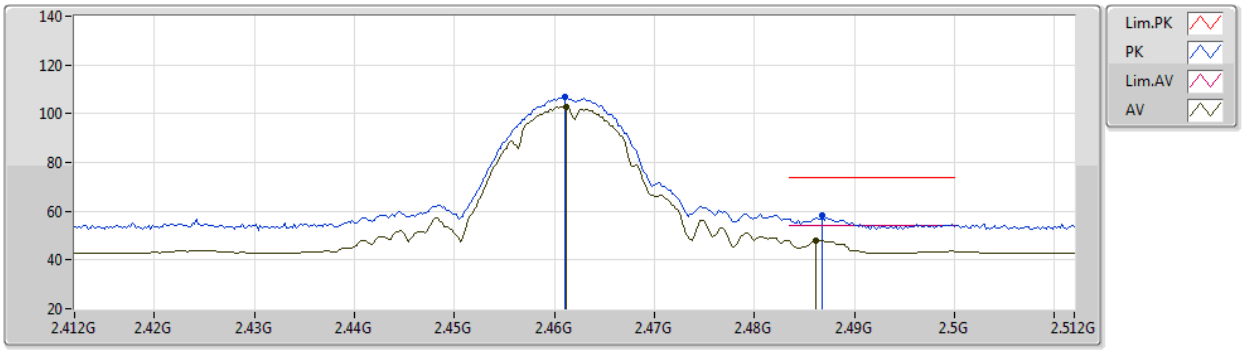
EUT Y_2TX
Setting 18
06-D-S-5

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	2.456G	114.14	Inf	-Inf	83.58	3	Horizontal	329	2.38	-	27.40	3.16	-
AV	2.4558G	107.57	Inf	-Inf	77.01	3	Horizontal	329	2.38	-	27.40	3.16	-
PK	2.4835G	61.63	74.00	-12.37	31.05	3	Horizontal	329	2.38	-	27.40	3.18	-
AV	2.4838G	53.72	54.00	-0.28	23.14	3	Horizontal	329	2.38	-	27.40	3.18	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

30/03/2021



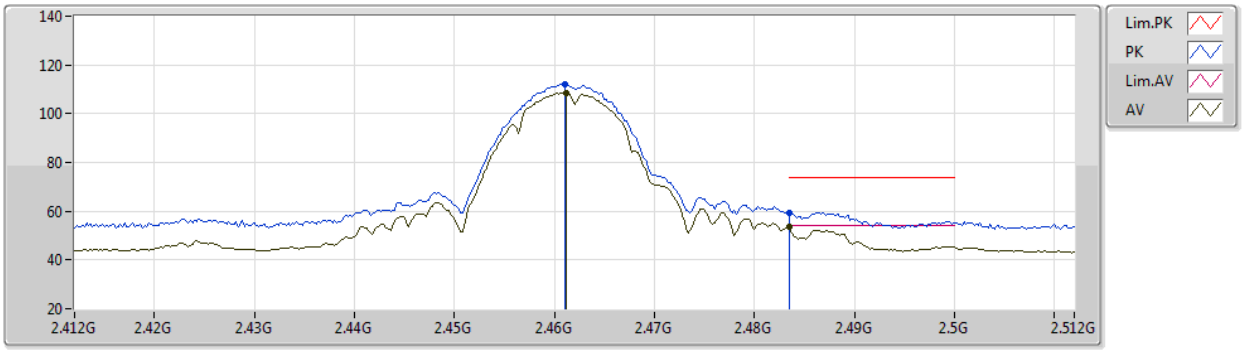
EUT Y_2TX
Setting 16
06-D-S-5

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	106.96	Inf	-Inf	76.40	3	Vertical	150	1.19	-	27.40	3.16	-
AV	2.4612G	102.80	Inf	-Inf	72.24	3	Vertical	150	1.19	-	27.40	3.16	-
PK	2.4868G	58.07	74.00	-15.93	27.48	3	Vertical	150	1.19	-	27.40	3.19	-
AV	2.4862G	47.93	54.00	-6.07	17.34	3	Vertical	150	1.19	-	27.40	3.19	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

30/03/2021



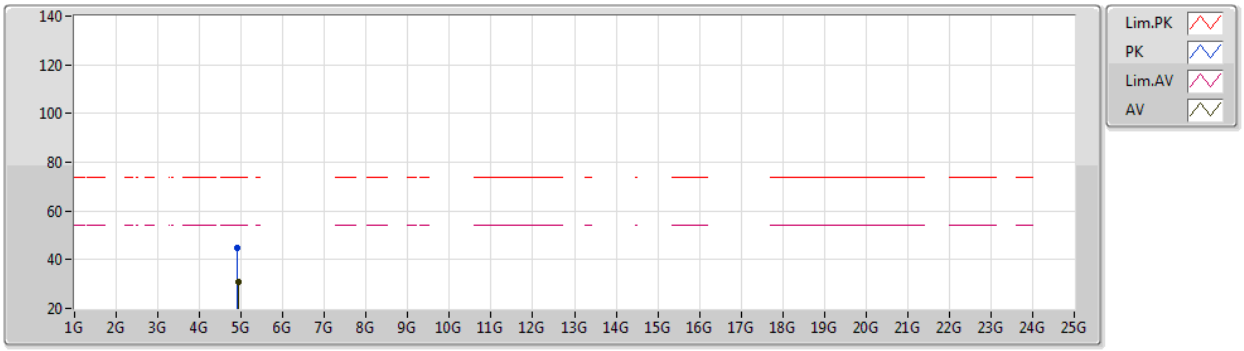
EUT Y_2TX
Setting 16
06-D-S-5

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	112.25	Inf	-Inf	81.69	3	Horizontal	329	2.60	-	27.40	3.16	-
AV	2.4612G	108.61	Inf	-Inf	78.05	3	Horizontal	329	2.60	-	27.40	3.16	-
PK	2.4835G	59.53	74.00	-14.47	28.95	3	Horizontal	329	2.60	-	27.40	3.18	-
AV	2.4835G	53.55	54.00	-0.45	22.97	3	Horizontal	329	2.60	-	27.40	3.18	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

30/03/2021



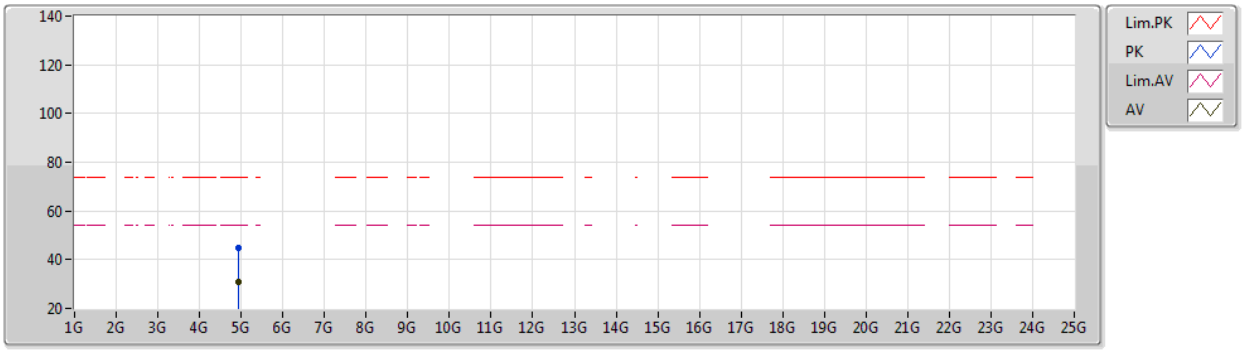
EUT Y_2TX
Setting 16
06-D-S-5

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	4.91912G	44.84	74.00	-29.16	40.29	3	Vertical	79	1.79	-	31.18	5.00	31.63
AV	4.92386G	30.86	54.00	-23.14	26.28	3	Vertical	79	1.79	-	31.20	5.00	31.62

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

30/03/2021



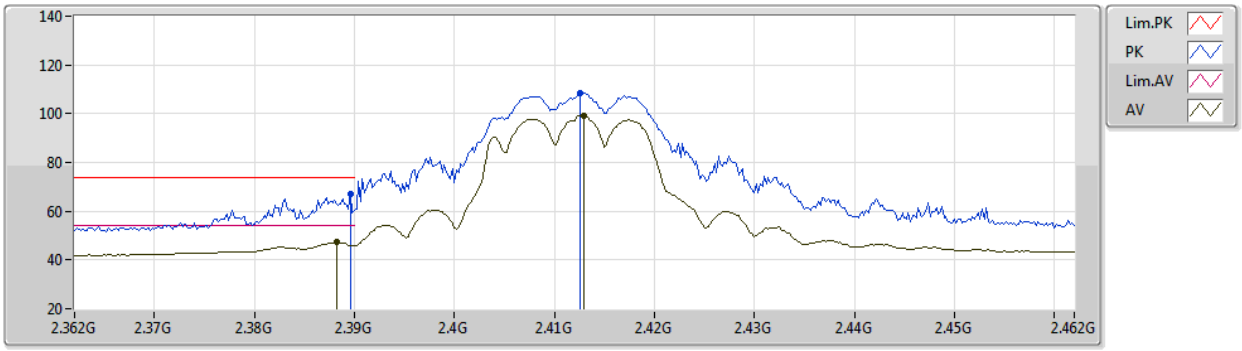
EUT Y_2TX
Setting 16
06-D-S-5

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	4.9234G	44.61	74.00	-29.39	40.04	3	Horizontal	146	2.76	-	31.19	5.00	31.62
AV	4.9255G	30.87	54.00	-23.13	26.29	3	Horizontal	146	2.76	-	31.20	5.00	31.62

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

15/03/2021



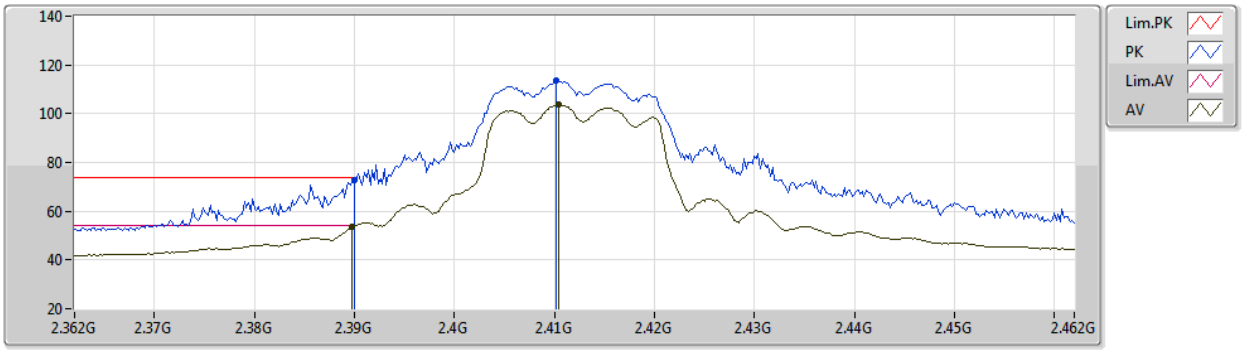
EUT Y_2TX
Setting 15.5
04-A-B-2

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	2.3896G	67.19	74.00	-6.81	36.51	3	Vertical	42	2.49	-	27.48	3.20	-
AV	2.3882G	47.22	54.00	-6.78	16.54	3	Vertical	42	2.49	-	27.48	3.20	-
PK	2.4126G	108.45	Inf	-Inf	77.71	3	Vertical	42	2.49	-	27.53	3.21	-
AV	2.413G	99.28	Inf	-Inf	68.54	3	Vertical	42	2.49	-	27.53	3.21	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

15/03/2021



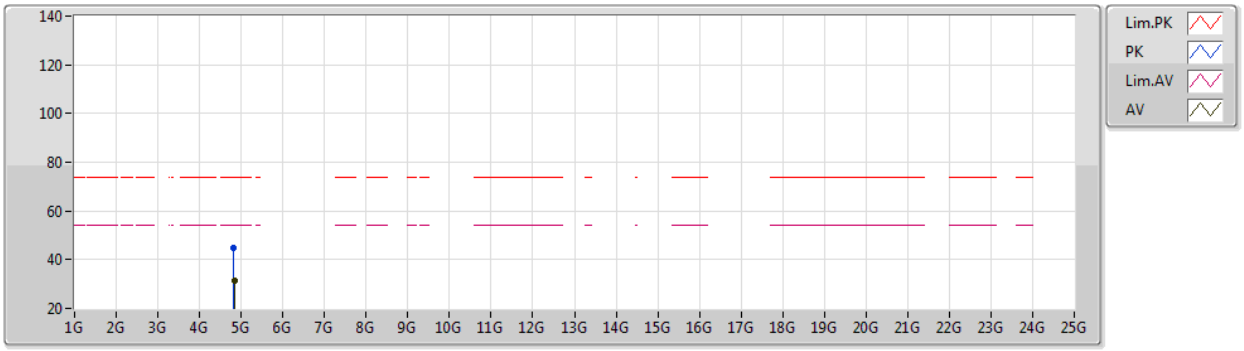
EUT Y_2TX
Setting 15.5
04-A-B-2

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	2.39G	72.68	74.00	-1.32	42.00	3	Horizontal	31	2.37	-	27.48	3.20	-
AV	2.3898G	53.77	54.00	-0.23	23.09	3	Horizontal	31	2.37	-	27.48	3.20	-
PK	2.4102G	113.65	Inf	-Inf	82.92	3	Horizontal	31	2.37	-	27.52	3.21	-
AV	2.4104G	103.64	Inf	-Inf	72.91	3	Horizontal	31	2.37	-	27.52	3.21	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

15/03/2021



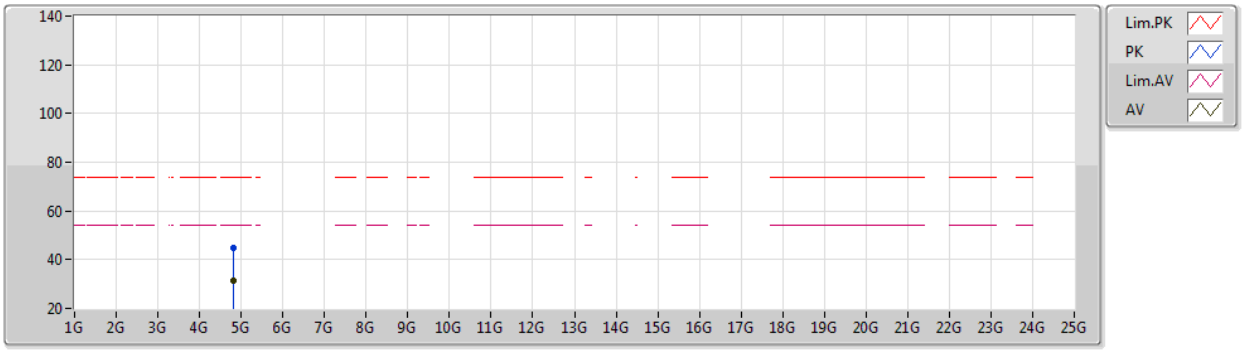
EUT Y_2TX
Setting 15.5
06-D-S-5

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	4.82808G	44.69	74.00	-29.31	40.32	3	Vertical	200	1.70	-	31.11	5.00	31.74
AV	4.8289G	31.57	54.00	-22.43	27.19	3	Vertical	200	1.70	-	31.12	5.00	31.74

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

15/03/2021



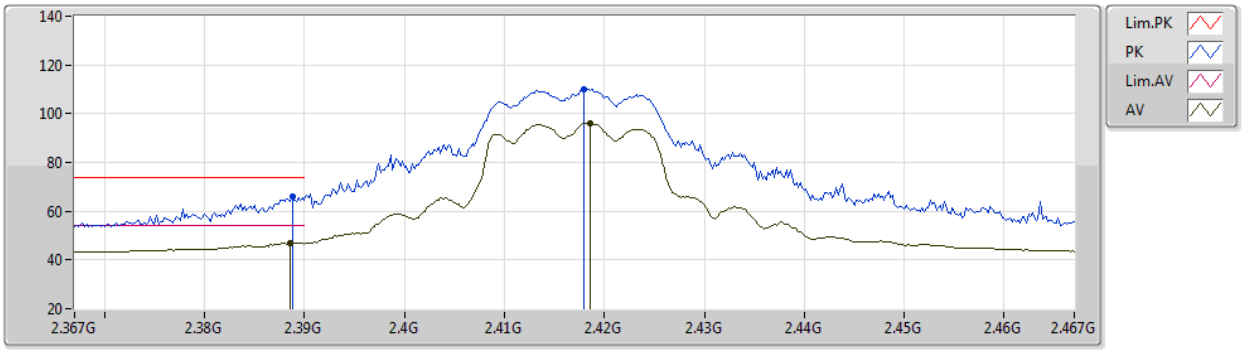
EUT Y_2TX
Setting 15.5
06-D-S-5

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	4.82562G	44.79	74.00	-29.21	40.43	3	Horizontal	215	1.18	-	31.10	5.00	31.74
AV	4.82268G	31.61	54.00	-22.39	27.27	3	Horizontal	215	1.18	-	31.09	5.00	31.75

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

15/03/2021



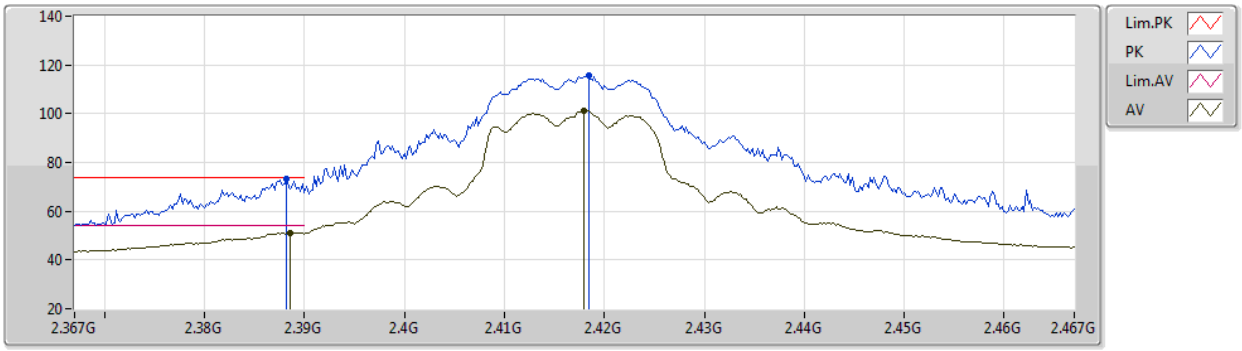
EUT Y_2TX
Setting 17
06-D-S-5

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	2.3888G	66.04	74.00	-7.96	35.36	3	Vertical	189	1.84	-	27.60	3.08	-
AV	2.3886G	47.05	54.00	-6.95	16.37	3	Vertical	189	1.84	-	27.60	3.08	-
PK	2.418G	109.81	Inf	-Inf	79.16	3	Vertical	189	1.84	-	27.53	3.12	-
AV	2.4186G	96.27	Inf	-Inf	65.62	3	Vertical	189	1.84	-	27.53	3.12	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

15/03/2021



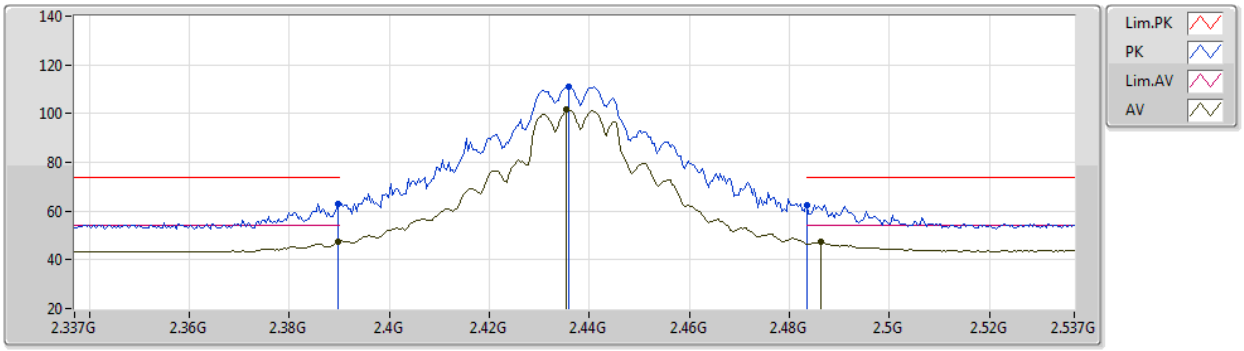
EUT Y_2TX
Setting 17
06-D-S-5

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	2.3882G	73.52	74.00	-0.48	42.84	3	Horizontal	321	2.45	-	27.60	3.08	-
AV	2.3886G	51.26	54.00	-2.74	20.58	3	Horizontal	321	2.45	-	27.60	3.08	-
PK	2.4184G	115.46	Inf	-Inf	84.81	3	Horizontal	321	2.45	-	27.53	3.12	-
AV	2.418G	101.26	Inf	-Inf	70.61	3	Horizontal	321	2.45	-	27.53	3.12	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

15/03/2021



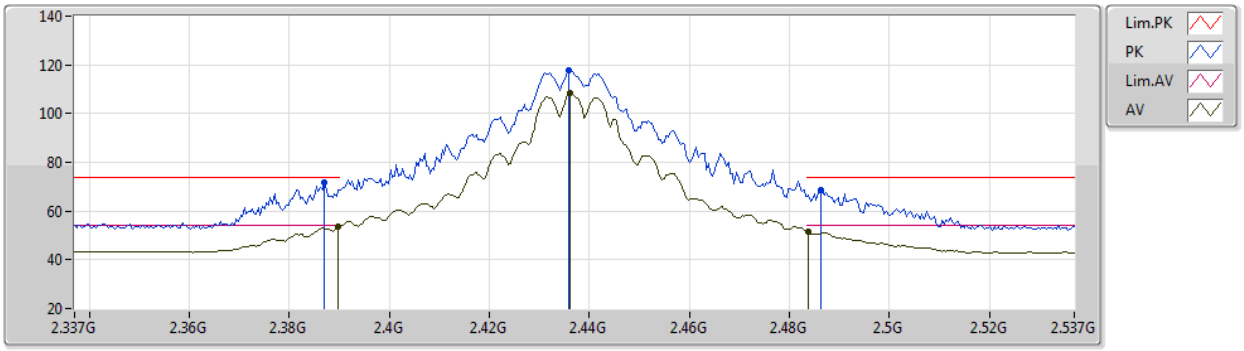
EUT Y_2TX
Setting 20
06-D-S-5

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	2.3898G	62.95	74.00	-11.05	32.27	3	Vertical	181	1.80	-	27.48	3.20	-
AV	2.3898G	47.26	54.00	-6.74	16.58	3	Vertical	181	1.80	-	27.48	3.20	-
PK	2.4358G	110.96	Inf	-Inf	80.15	3	Vertical	181	1.80	-	27.57	3.24	-
AV	2.4354G	101.55	Inf	-Inf	70.74	3	Vertical	181	1.80	-	27.57	3.24	-
PK	2.4835G	62.65	74.00	-11.35	31.64	3	Vertical	181	1.80	-	27.73	3.28	-
AV	2.4862G	47.28	54.00	-6.72	16.25	3	Vertical	181	1.80	-	27.74	3.29	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

15/03/2021



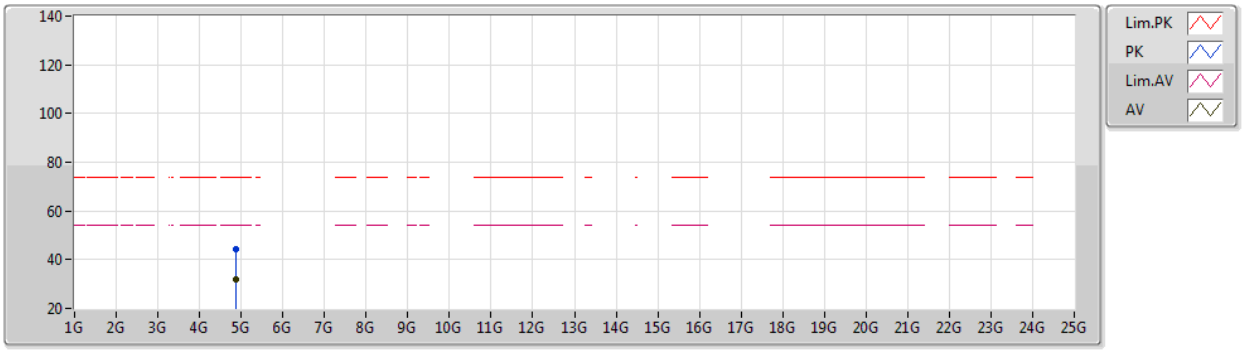
EUT Y_2TX
Setting 20
06-D-S-5

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	71.79	74.00	-2.21	41.12	3	Horizontal	320	1.00	-	27.60	3.07	-
AV	2.3898G	53.63	54.00	-0.37	22.95	3	Horizontal	320	1.00	-	27.60	3.08	-
PK	2.4358G	117.61	Inf	-Inf	87.01	3	Horizontal	320	1.00	-	27.46	3.14	-
AV	2.4362G	108.25	Inf	-Inf	77.65	3	Horizontal	320	1.00	-	27.46	3.14	-
PK	2.4862G	68.69	74.00	-5.31	38.10	3	Horizontal	320	1.00	-	27.40	3.19	-
AV	2.4838G	51.53	54.00	-2.47	20.95	3	Horizontal	320	1.00	-	27.40	3.18	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

15/03/2021



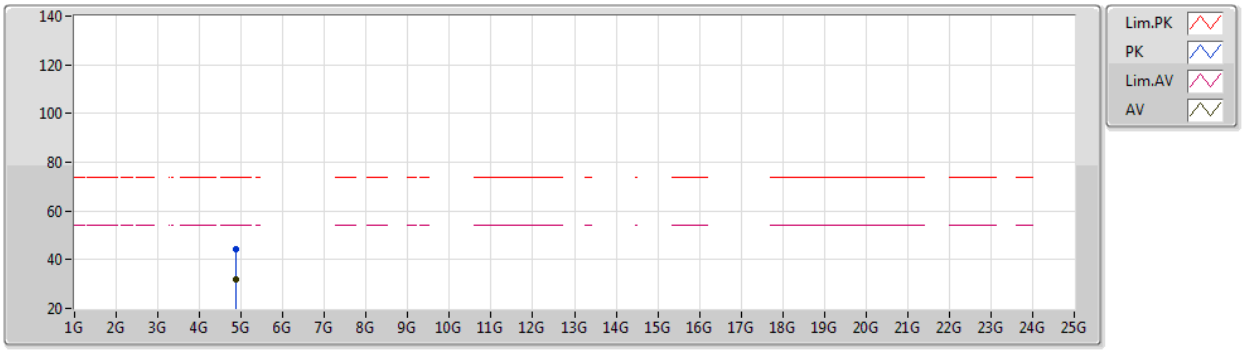
EUT Y_2TX
Setting 20
06-D-S-5

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	4.873G	44.44	74.00	-29.56	39.97	3	Vertical	58	2.33	-	31.15	5.00	31.68
AV	4.879G	31.77	54.00	-22.23	27.31	3	Vertical	58	2.33	-	31.14	5.00	31.68

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

15/03/2021



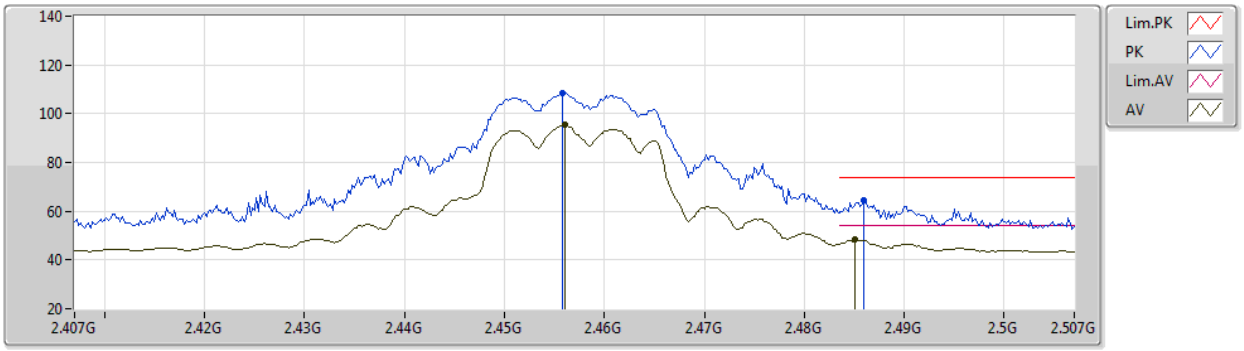
EUT Y_2TX
Setting 20
06-D-S-5

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	4.87168G	44.27	74.00	-29.73	39.80	3	Horizontal	305	1.28	-	31.16	5.00	31.69
AV	4.87388G	31.74	54.00	-22.26	27.27	3	Horizontal	305	1.28	-	31.15	5.00	31.68

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

15/03/2021



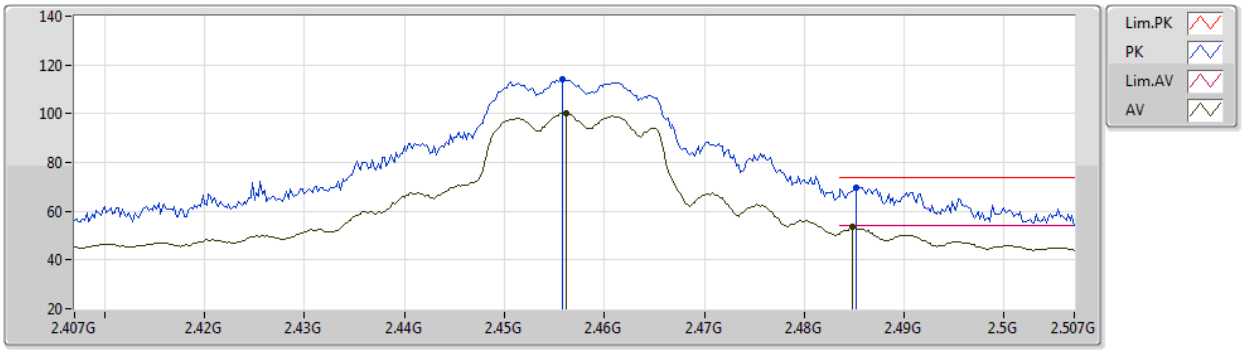
EUT Y_2TX
Setting 16.5
06-D-S-5

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	2.4558G	108.58	Inf	-Inf	78.02	3	Vertical	179	1.80	-	27.40	3.16	-
AV	2.456G	95.49	Inf	-Inf	64.93	3	Vertical	179	1.80	-	27.40	3.16	-
PK	2.486G	64.71	74.00	-9.29	34.12	3	Vertical	179	1.80	-	27.40	3.19	-
AV	2.485G	48.24	54.00	-5.76	17.65	3	Vertical	179	1.80	-	27.40	3.19	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

15/03/2021



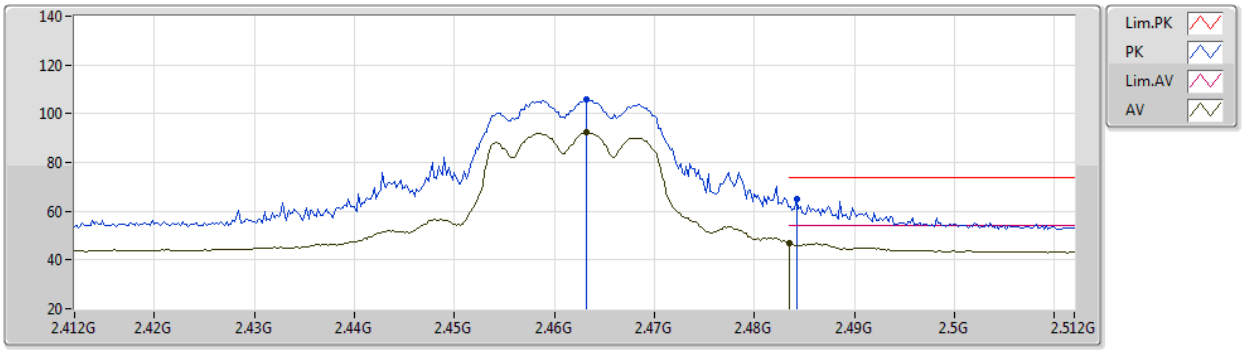
EUT Y_2TX
Setting 16.5
06-D-S-5

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	2.4558G	114.06	Inf	-Inf	83.50	3	Horizontal	312	2.38	-	27.40	3.16	-
AV	2.4562G	100.39	Inf	-Inf	69.83	3	Horizontal	312	2.38	-	27.40	3.16	-
PK	2.4852G	69.91	74.00	-4.09	39.32	3	Horizontal	312	2.38	-	27.40	3.19	-
AV	2.4848G	53.54	54.00	-0.46	22.96	3	Horizontal	312	2.38	-	27.40	3.18	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

15/03/2021



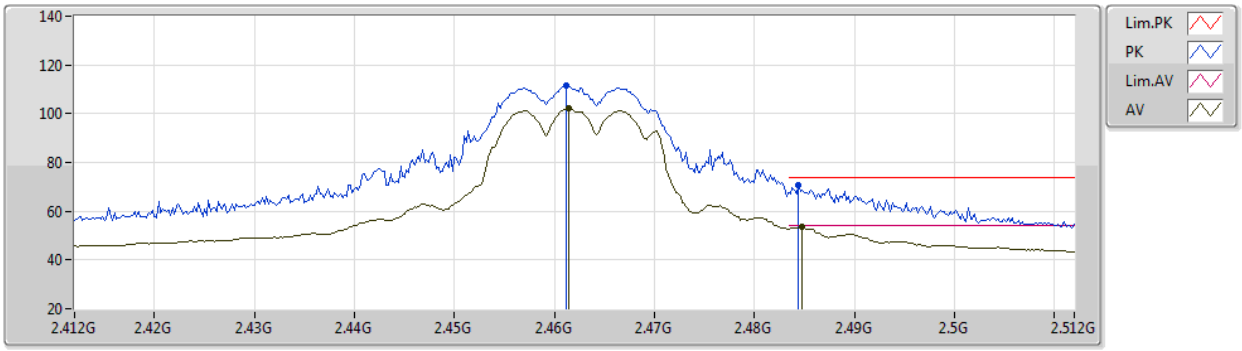
EUT Y_2TX
Setting 14
06-D-S-5

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	2.4632G	105.95	Inf	-Inf	75.39	3	Vertical	175	1.80	-	27.40	3.16	-
AV	2.4632G	92.62	Inf	-Inf	62.06	3	Vertical	175	1.80	-	27.40	3.16	-
PK	2.4842G	64.79	74.00	-9.21	34.21	3	Vertical	175	1.80	-	27.40	3.18	-
AV	2.4835G	46.84	54.00	-7.16	16.26	3	Vertical	175	1.80	-	27.40	3.18	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

15/03/2021



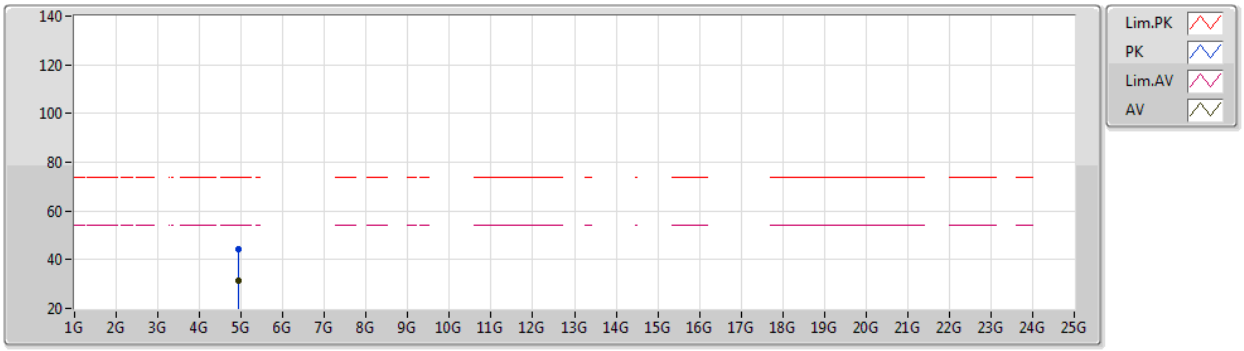
EUT Y_2TX
Setting 14
06-D-S-5

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	2.4612G	111.51	Inf	-Inf	80.95	3	Horizontal	317	1.14	-	27.40	3.16	-
AV	2.4614G	102.32	Inf	-Inf	71.76	3	Horizontal	317	1.14	-	27.40	3.16	-
PK	2.4844G	70.60	74.00	-3.40	40.02	3	Horizontal	317	1.14	-	27.40	3.18	-
AV	2.4848G	53.63	54.00	-0.37	23.05	3	Horizontal	317	1.14	-	27.40	3.18	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

15/03/2021



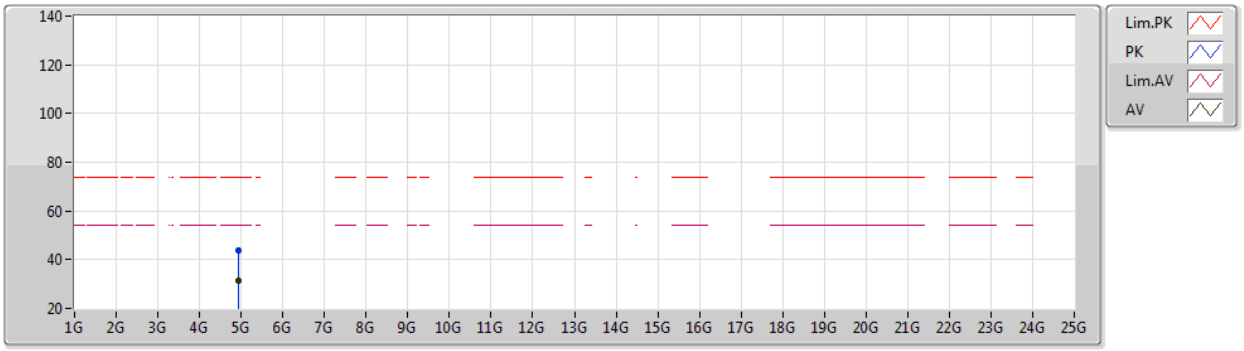
EUT Y_2TX
Setting 14
06-D-S-5

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	4.92526G	44.45	74.00	-29.55	39.87	3	Vertical	50	2.93	-	31.20	5.00	31.62
AV	4.92886G	31.30	54.00	-22.70	26.70	3	Vertical	50	2.93	-	31.22	5.00	31.62

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

15/03/2021



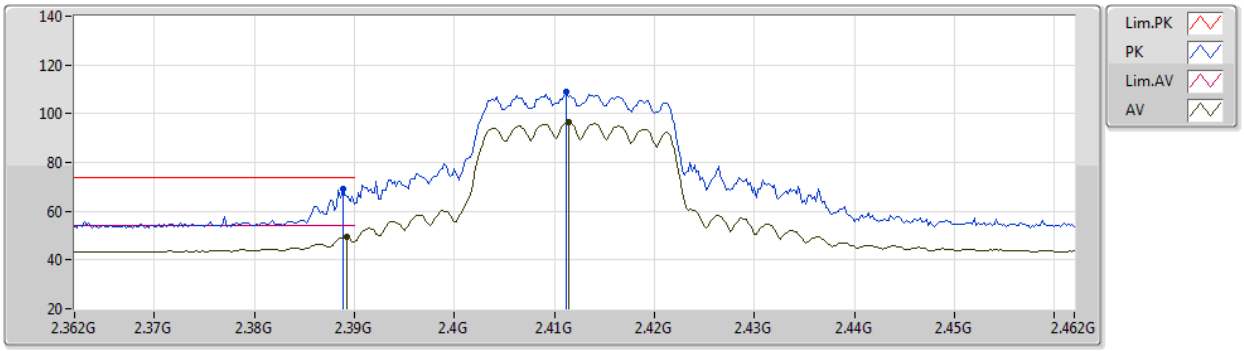
EUT Y_2TX
Setting 14
06-D-S-5

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	4.92658G	43.89	74.00	-30.11	39.30	3	Horizontal	356	1.15	-	31.21	5.00	31.62
AV	4.92238G	31.31	54.00	-22.69	26.74	3	Horizontal	356	1.15	-	31.19	5.00	31.62

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

31/03/2021



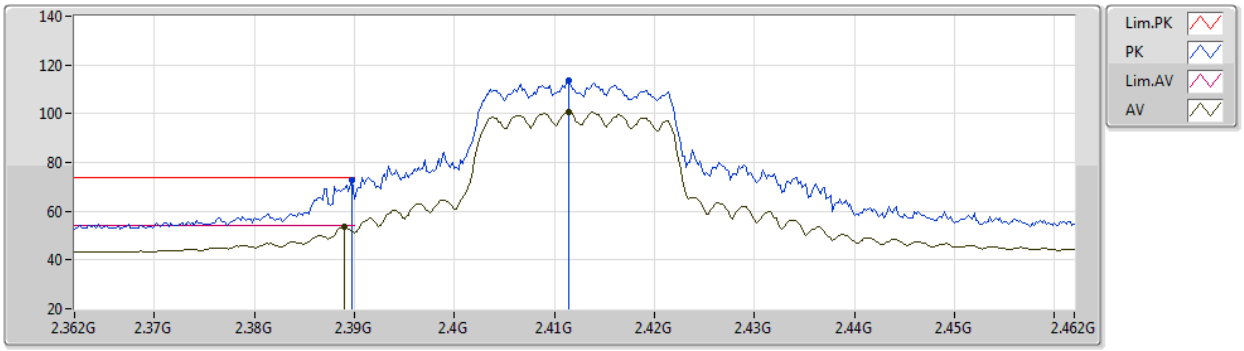
EUT Y_2TX
Setting 14.5
06-D-B-4

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	2.3888G	69.02	74.00	-4.98	38.34	3	Vertical	178	1.80	-	27.60	3.08	-
AV	2.3892G	49.67	54.00	-4.33	18.99	3	Vertical	178	1.80	-	27.60	3.08	-
PK	2.4112G	108.84	Inf	-Inf	78.17	3	Vertical	178	1.80	-	27.56	3.11	-
AV	2.4114G	96.38	Inf	-Inf	65.72	3	Vertical	178	1.80	-	27.55	3.11	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

31/03/2021



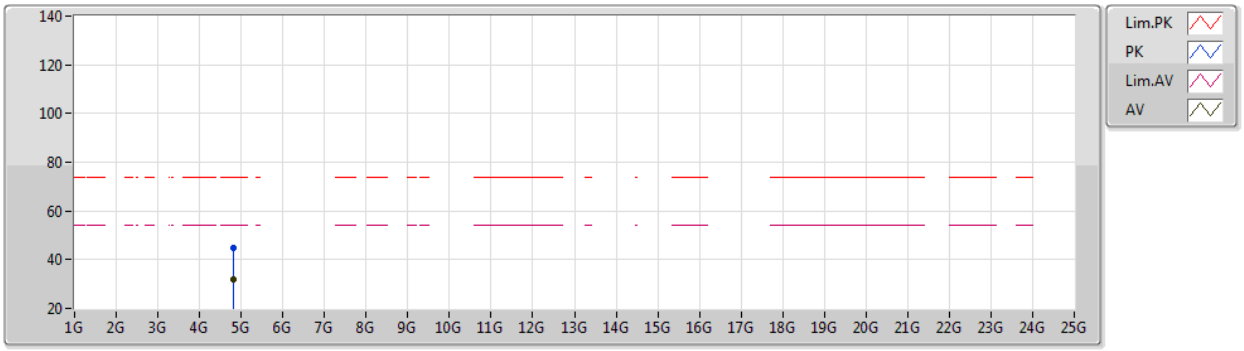
EUT Y_2TX
Setting 14.5
06-D-B-4

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	2.3898G	72.60	74.00	-1.40	41.92	3	Horizontal	304	2.23	-	27.60	3.08	-
AV	2.389G	53.81	54.00	-0.19	23.13	3	Horizontal	304	2.23	-	27.60	3.08	-
PK	2.4114G	113.45	Inf	-Inf	82.79	3	Horizontal	304	2.23	-	27.55	3.11	-
AV	2.4114G	100.88	Inf	-Inf	70.22	3	Horizontal	304	2.23	-	27.55	3.11	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

31/03/2021



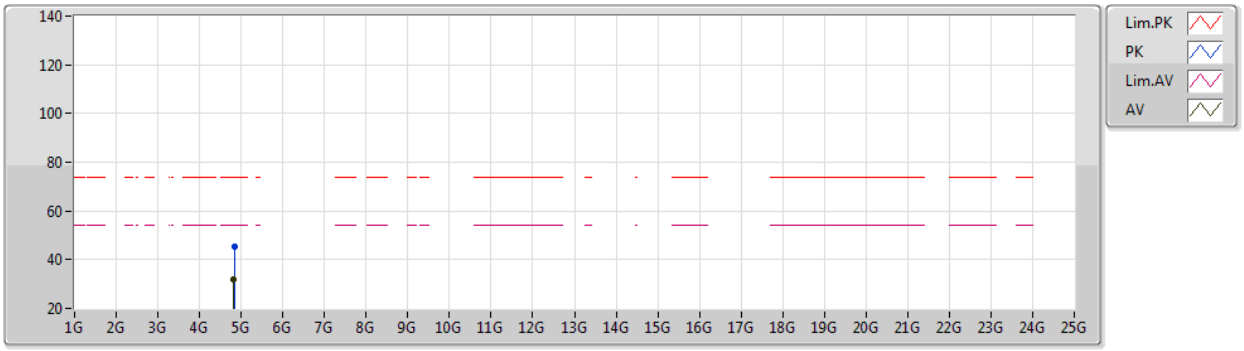
EUT Y_2TX
Setting 14.5
06-D-B-4

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	4.8171G	44.90	74.00	-29.10	40.58	3	Vertical	53	1.14	-	31.07	5.00	31.75
AV	4.81704G	32.10	54.00	-21.90	27.78	3	Vertical	53	1.14	-	31.07	5.00	31.75

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

31/03/2021



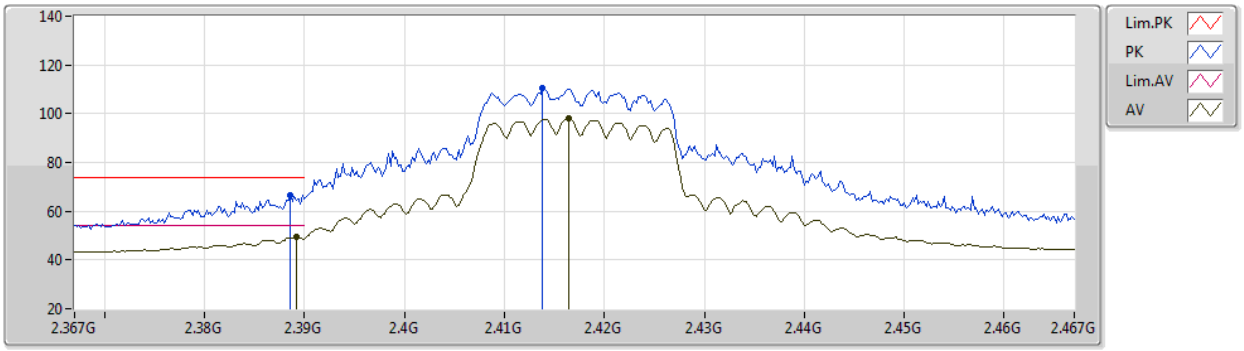
EUT Y_2TX
Setting 14.5
06-D-B-4

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	4.83294G	45.35	74.00	-28.65	40.95	3	Horizontal	301	1.56	-	31.13	5.00	31.73
AV	4.8204G	31.91	54.00	-22.09	27.58	3	Horizontal	301	1.56	-	31.08	5.00	31.75

802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

31/03/2021



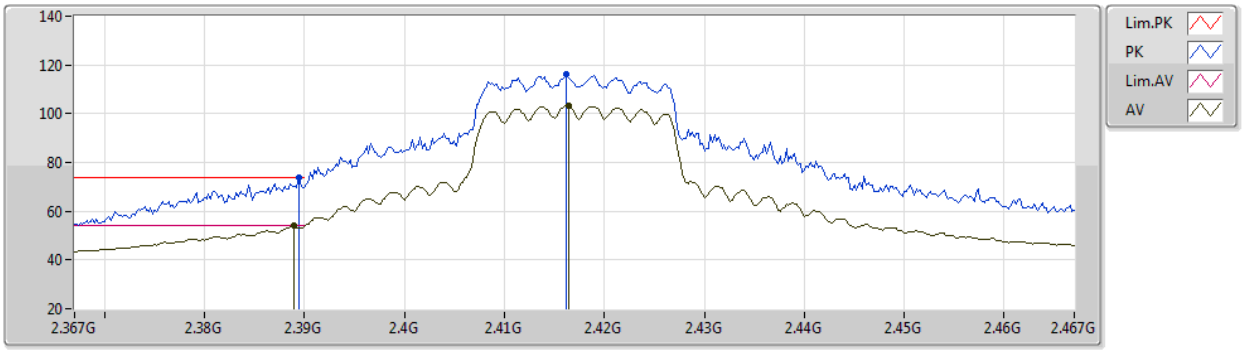
EUT Y_2TX
Setting 16.5
06-D-B-4

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	2.3886G	66.65	74.00	-7.35	35.97	3	Vertical	176	1.80	-	27.60	3.08	-
AV	2.3892G	49.50	54.00	-4.50	18.82	3	Vertical	176	1.80	-	27.60	3.08	-
PK	2.4138G	110.55	Inf	-Inf	79.90	3	Vertical	176	1.80	-	27.54	3.11	-
AV	2.4164G	98.05	Inf	-Inf	67.40	3	Vertical	176	1.80	-	27.53	3.12	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

31/03/2021



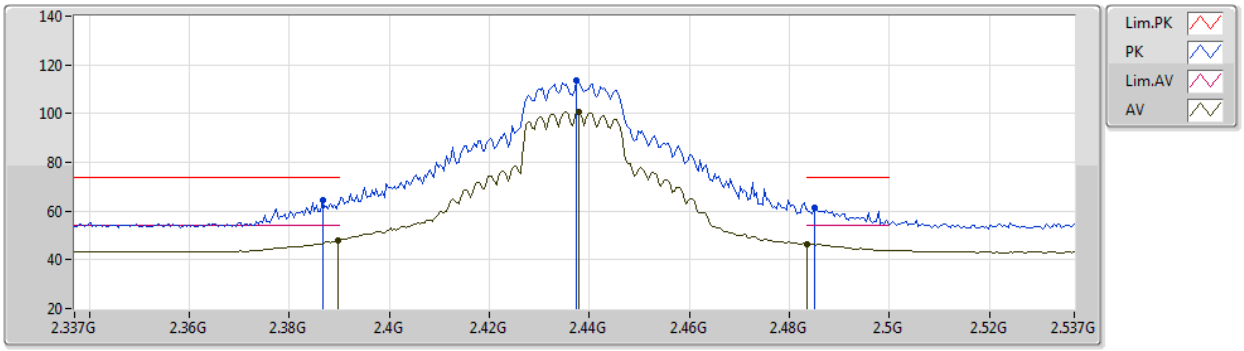
EUT Y_2TX
Setting 16.5
06-D-B-4

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	2.3894G	73.82	74.00	-0.18	43.14	3	Horizontal	311	2.47	-	27.60	3.08	-
AV	2.389G	53.92	54.00	-0.08	23.24	3	Horizontal	311	2.47	-	27.60	3.08	-
PK	2.4162G	116.07	Inf	-Inf	85.41	3	Horizontal	311	2.47	-	27.54	3.12	-
AV	2.4164G	103.10	Inf	-Inf	72.45	3	Horizontal	311	2.47	-	27.53	3.12	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

31/03/2021



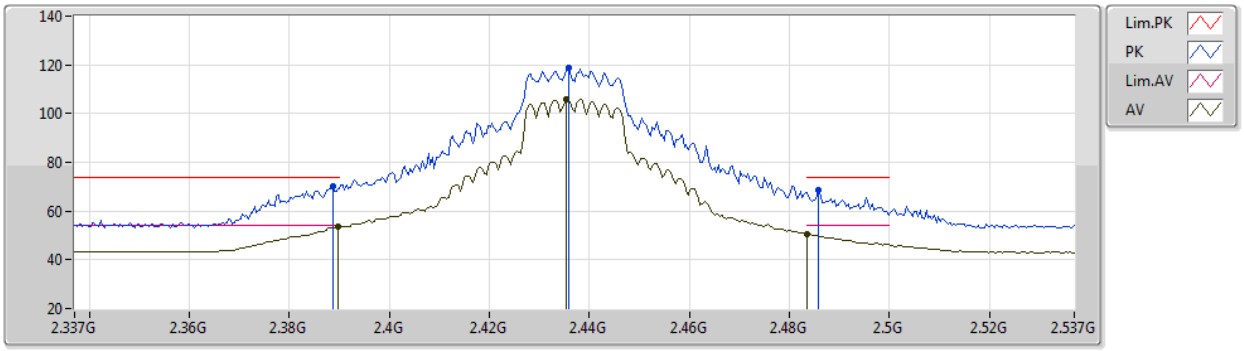
EUT Y_2TX
Setting 19
06-D-B-4

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	64.55	74.00	-9.45	33.88	3	Vertical	176	1.79	-	27.60	3.07	-
AV	2.3898G	48.18	54.00	-5.82	17.50	3	Vertical	176	1.79	-	27.60	3.08	-
PK	2.4374G	113.53	Inf	-Inf	82.94	3	Vertical	176	1.79	-	27.45	3.14	-
AV	2.4378G	100.89	Inf	-Inf	70.30	3	Vertical	176	1.79	-	27.45	3.14	-
PK	2.485G	61.39	74.00	-12.61	30.80	3	Vertical	176	1.79	-	27.40	3.19	-
AV	2.4835G	46.47	54.00	-7.53	15.89	3	Vertical	176	1.79	-	27.40	3.18	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

31/03/2021



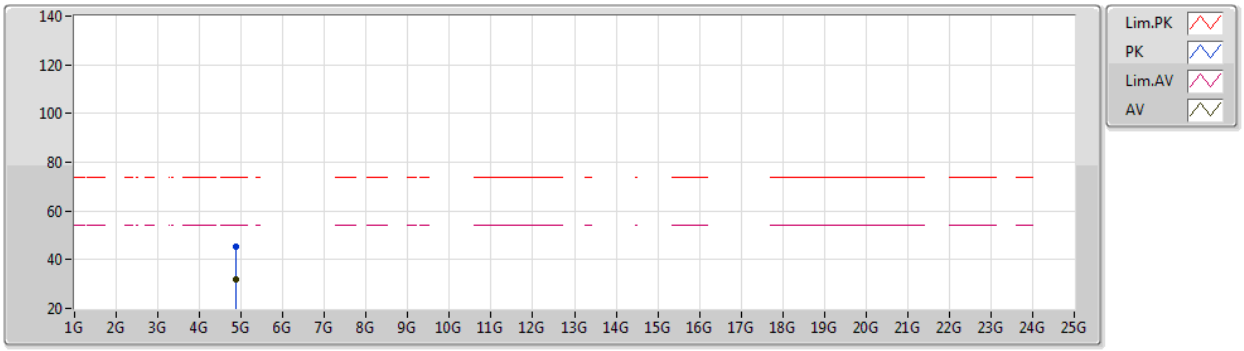
EUT Y_2TX
Setting 19
06-D-B-4

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	2.3886G	70.38	74.00	-3.62	39.70	3	Horizontal	311	1.00	-	27.60	3.08	-
AV	2.3898G	53.84	54.00	-0.16	23.16	3	Horizontal	311	1.00	-	27.60	3.08	-
PK	2.4358G	118.98	Inf	-Inf	88.38	3	Horizontal	311	1.00	-	27.46	3.14	-
AV	2.4354G	106.11	Inf	-Inf	75.51	3	Horizontal	311	1.00	-	27.46	3.14	-
PK	2.4858G	68.76	74.00	-5.24	38.17	3	Horizontal	311	1.00	-	27.40	3.19	-
AV	2.4835G	50.74	54.00	-3.26	20.16	3	Horizontal	311	1.00	-	27.40	3.18	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

31/03/2021



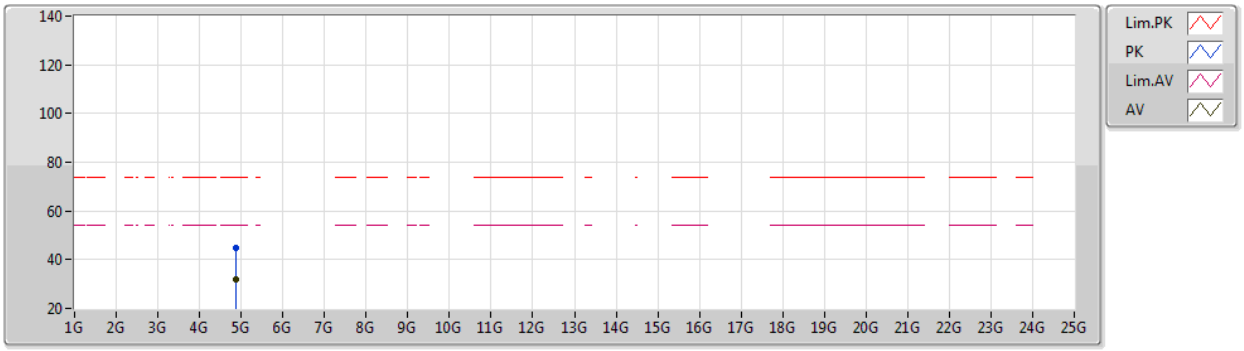
EUT Y_2TX
Setting 19
06-D-B-4

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	4.87154G	45.37	74.00	-28.63	40.90	3	Vertical	351	2.25	-	31.16	5.00	31.69
AV	4.87378G	31.86	54.00	-22.14	27.39	3	Vertical	351	2.25	-	31.15	5.00	31.68

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

31/03/2021



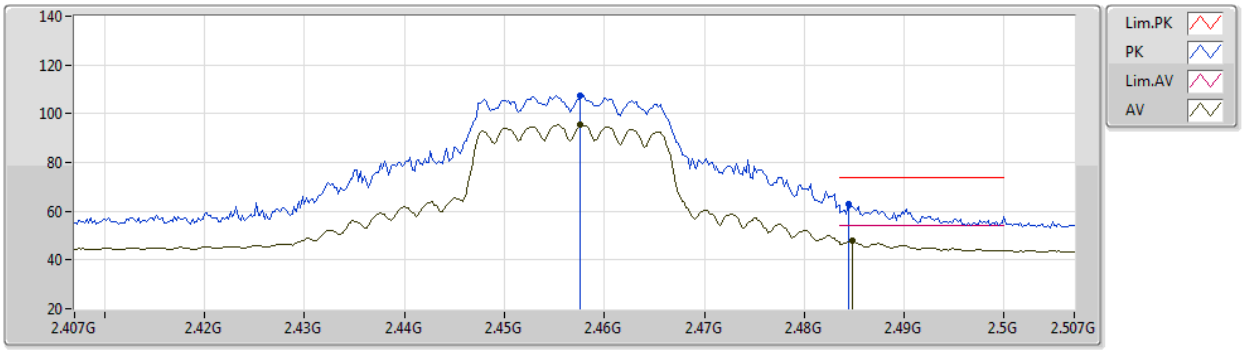
EUT Y_2TX
Setting 19
06-D-B-4

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	4.87812G	44.85	74.00	-29.15	40.39	3	Horizontal	125	1.57	-	31.14	5.00	31.68
AV	4.87424G	31.83	54.00	-22.17	27.36	3	Horizontal	125	1.57	-	31.15	5.00	31.68

802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

31/03/2021



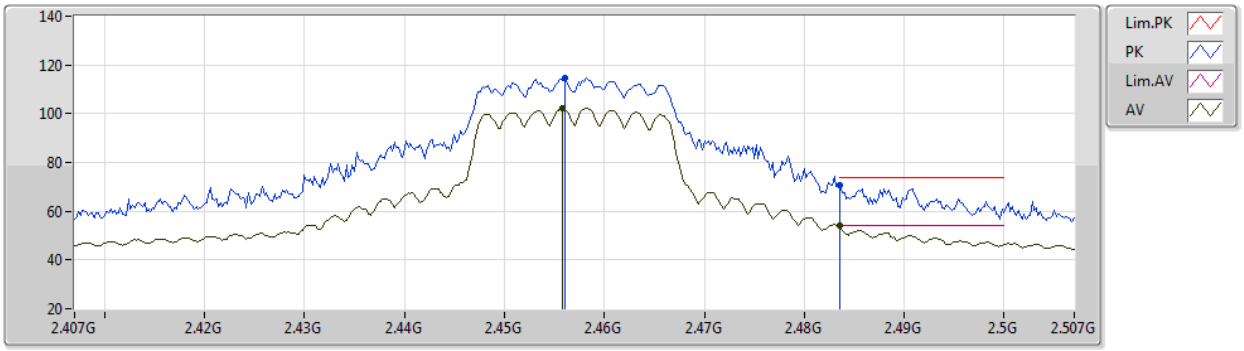
EUT Y_2TX
Setting 15.5
06-D-B-4

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	2.4576G	107.61	Inf	-Inf	77.05	3	Vertical	173	1.80	-	27.40	3.16	-
AV	2.4576G	95.35	Inf	-Inf	64.79	3	Vertical	173	1.80	-	27.40	3.16	-
PK	2.4844G	62.74	74.00	-11.26	32.16	3	Vertical	173	1.80	-	27.40	3.18	-
AV	2.4848G	47.76	54.00	-6.24	17.18	3	Vertical	173	1.80	-	27.40	3.18	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

31/03/2021



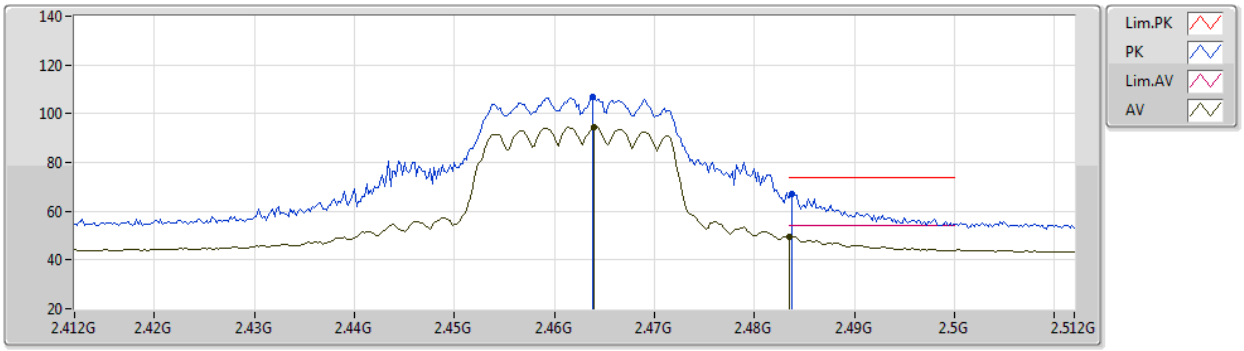
EUT Y_2TX
Setting 15.5
06-D-B-4

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	2.456G	114.58	Inf	-Inf	84.02	3	Horizontal	304	1.16	-	27.40	3.16	-
AV	2.4558G	102.22	Inf	-Inf	71.66	3	Horizontal	304	1.16	-	27.40	3.16	-
PK	2.4835G	70.87	74.00	-3.13	40.29	3	Horizontal	304	1.16	-	27.40	3.18	-
AV	2.4835G	53.88	54.00	-0.12	23.30	3	Horizontal	304	1.16	-	27.40	3.18	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

31/03/2021



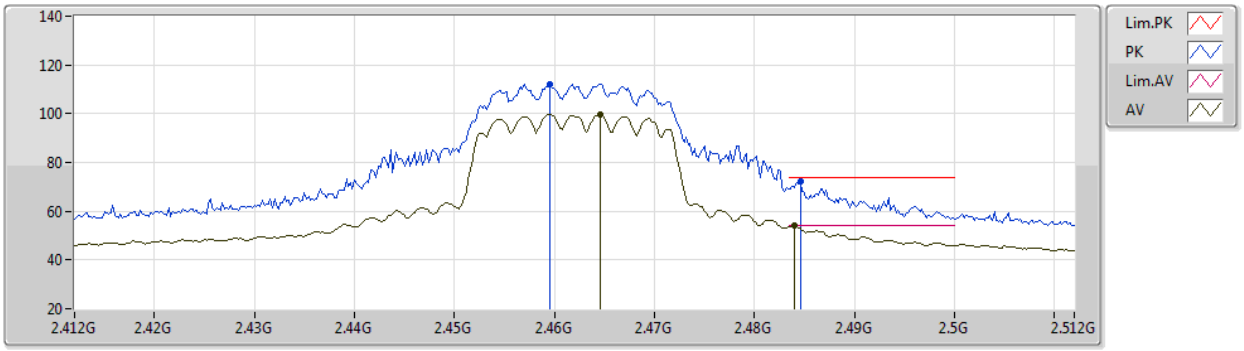
EUT Y_2TX
Setting 13
06-D-B-4

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	2.4638G	106.80	Inf	-Inf	76.24	3	Vertical	167	1.12	-	27.40	3.16	-
AV	2.464G	94.59	Inf	-Inf	64.03	3	Vertical	167	1.12	-	27.40	3.16	-
PK	2.4838G	66.96	74.00	-7.04	36.38	3	Vertical	167	1.12	-	27.40	3.18	-
AV	2.4835G	49.58	54.00	-4.42	19.00	3	Vertical	167	1.12	-	27.40	3.18	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

31/03/2021



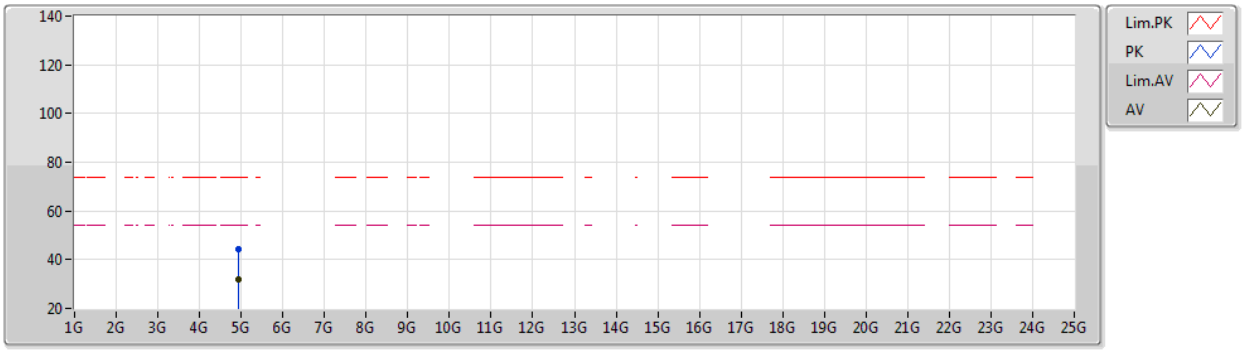
EUT Y_2TX
Setting 13
06-D-B-4

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	2.4596G	111.99	Inf	-Inf	81.43	3	Horizontal	305	1.15	-	27.40	3.16	-
AV	2.4646G	99.61	Inf	-Inf	69.05	3	Horizontal	305	1.15	-	27.40	3.16	-
PK	2.4846G	72.18	74.00	-1.82	41.60	3	Horizontal	305	1.15	-	27.40	3.18	-
AV	2.484G	53.99	54.00	-0.01	23.41	3	Horizontal	305	1.15	-	27.40	3.18	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

31/03/2021



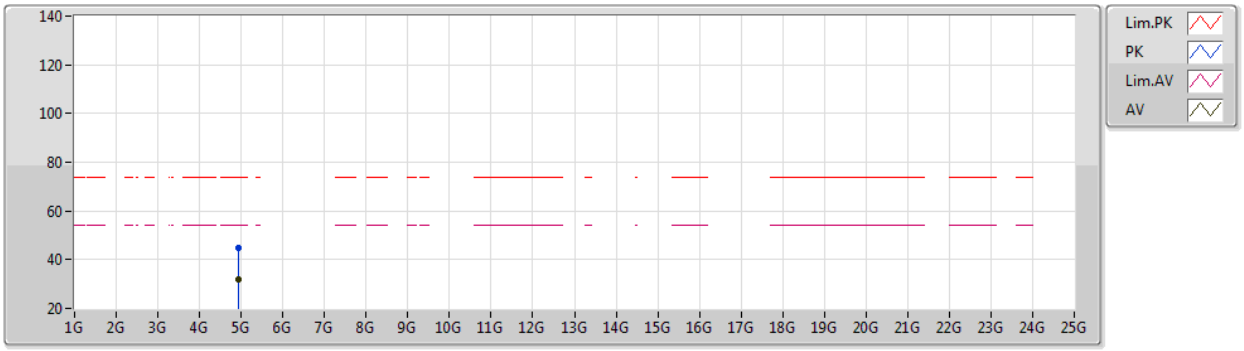
EUT Y_2TX
Setting 13
06-D-B-4

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	4.92698G	44.56	74.00	-29.44	39.97	3	Vertical	237	2.60	-	31.21	5.00	31.62
AV	4.92474G	31.88	54.00	-22.12	27.30	3	Vertical	237	2.60	-	31.20	5.00	31.62

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

31/03/2021



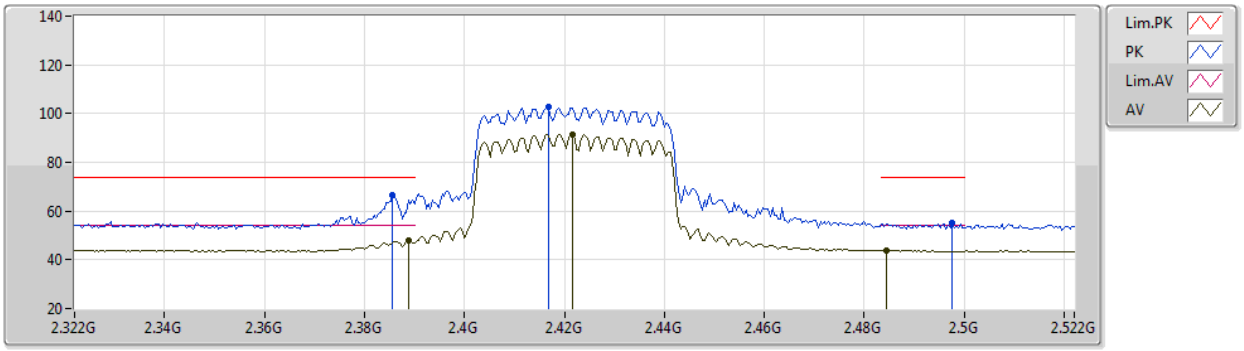
EUT Y_2TX
Setting 13
06-D-B-4

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	4.92876G	44.81	74.00	-29.19	40.21	3	Horizontal	235	2.18	-	31.22	5.00	31.62
AV	4.925G	31.76	54.00	-22.24	27.18	3	Horizontal	235	2.18	-	31.20	5.00	31.62

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

31/03/2021



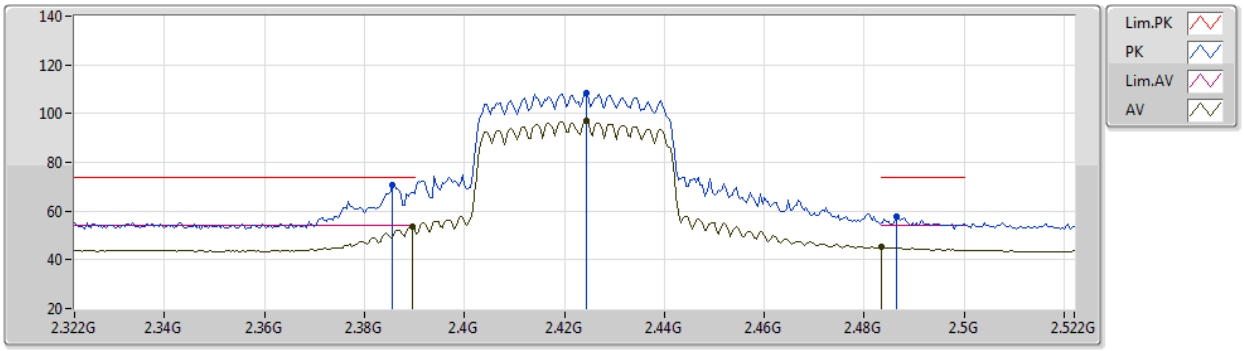
EUT Y_2TX
Setting 12.5
06-D-B-4

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	2.3856G	66.59	74.00	-7.41	35.92	3	Vertical	170	1.19	-	27.60	3.07	-
AV	2.3888G	48.12	54.00	-5.88	17.44	3	Vertical	170	1.19	-	27.60	3.08	-
PK	2.4168G	102.87	Inf	-Inf	72.22	3	Vertical	170	1.19	-	27.53	3.12	-
AV	2.4216G	91.42	Inf	-Inf	60.79	3	Vertical	170	1.19	-	27.51	3.12	-
PK	2.4976G	54.95	74.00	-19.05	24.35	3	Vertical	170	1.19	-	27.40	3.20	-
AV	2.4844G	43.85	54.00	-10.15	13.27	3	Vertical	170	1.19	-	27.40	3.18	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

31/03/2021



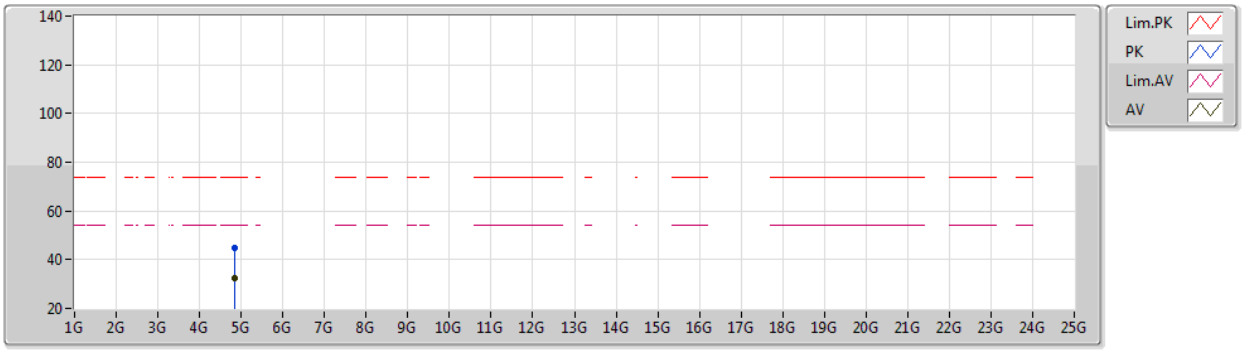
EUT Y_2TX
Setting 12.5
06-D-B-4

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	2.3856G	70.90	74.00	-3.10	40.23	3	Horizontal	313	1.17	-	27.60	3.07	-
AV	2.3896G	53.86	54.00	-0.14	23.18	3	Horizontal	313	1.17	-	27.60	3.08	-
PK	2.4244G	108.68	Inf	-Inf	78.06	3	Horizontal	313	1.17	-	27.50	3.12	-
AV	2.4244G	96.99	Inf	-Inf	66.37	3	Horizontal	313	1.17	-	27.50	3.12	-
PK	2.4864G	57.65	74.00	-16.35	27.06	3	Horizontal	313	1.17	-	27.40	3.19	-
AV	2.4835G	45.12	54.00	-8.88	14.54	3	Horizontal	313	1.17	-	27.40	3.18	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

31/03/2021



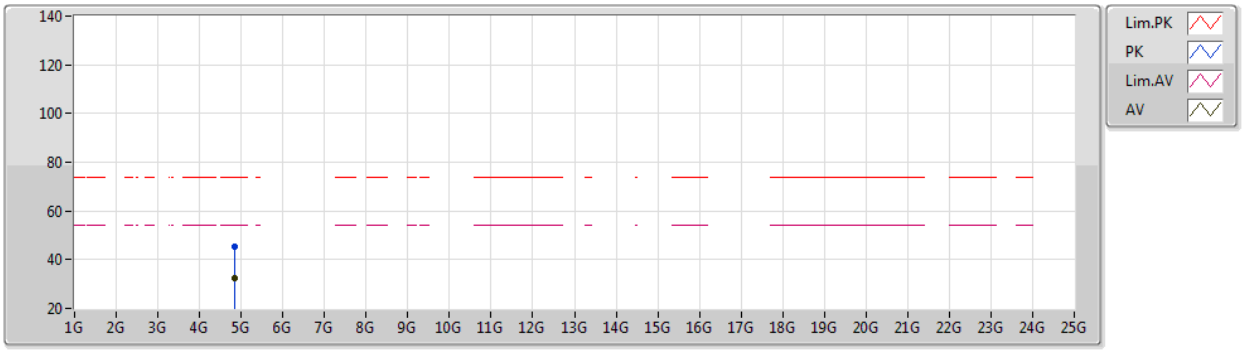
EUT Y_2TX
Setting 12.5
06-D-B-4

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	4.8489G	44.97	74.00	-29.03	40.48	3	Vertical	103	2.67	-	31.20	5.00	31.71
AV	4.8431G	32.56	54.00	-21.44	28.11	3	Vertical	103	2.67	-	31.17	5.00	31.72

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

31/03/2021



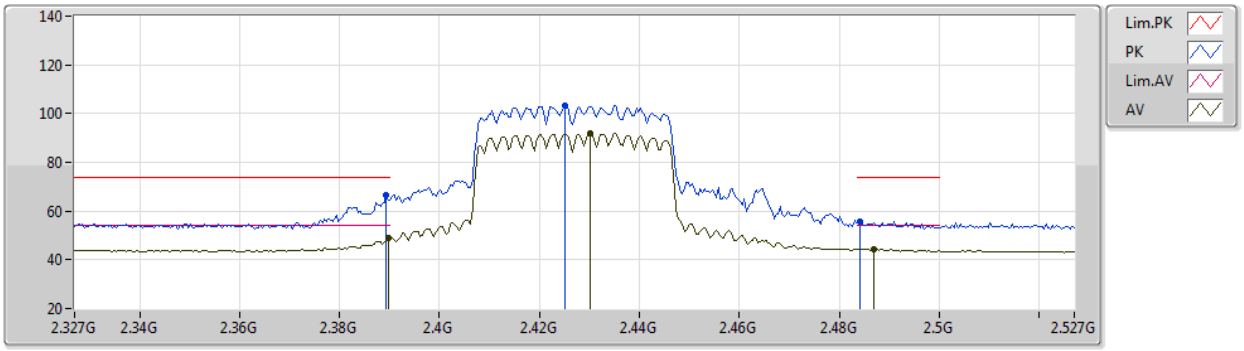
EUT Y_2TX
Setting 12.5
06-D-B-4

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	4.846G	45.14	74.00	-28.86	40.68	3	Horizontal	252	2.52	-	31.18	5.00	31.72
AV	4.847G	32.66	54.00	-21.34	28.19	3	Horizontal	252	2.52	-	31.19	5.00	31.72

802.11ax HEW40_Nss1,(MCS0)_2TX

2427MHz_TX

31/03/2021



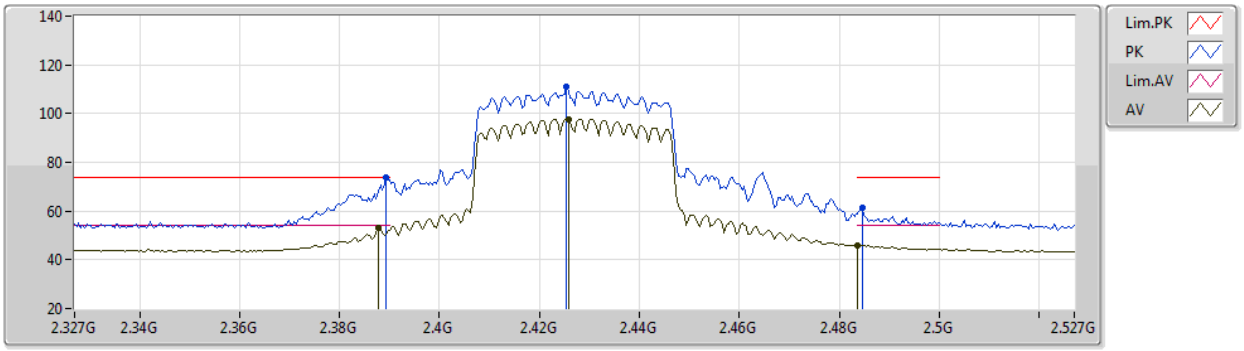
EUT Y_2TX
Setting 13.5
06-D-B-4

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	2.3894G	66.32	74.00	-7.68	35.64	3	Vertical	179	1.79	-	27.60	3.08	-
AV	2.3898G	48.85	54.00	-5.15	18.17	3	Vertical	179	1.79	-	27.60	3.08	-
PK	2.425G	103.41	Inf	-Inf	72.79	3	Vertical	179	1.79	-	27.50	3.12	-
AV	2.4302G	91.96	Inf	-Inf	61.35	3	Vertical	179	1.79	-	27.48	3.13	-
PK	2.4842G	55.67	74.00	-18.33	25.09	3	Vertical	179	1.79	-	27.40	3.18	-
AV	2.487G	44.39	54.00	-9.61	13.80	3	Vertical	179	1.79	-	27.40	3.19	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2427MHz_TX

31/03/2021



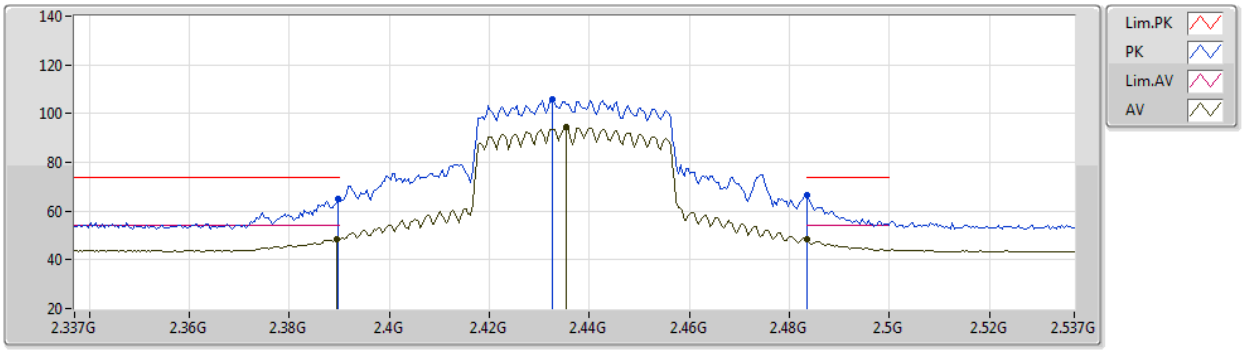
EUT Y_2TX
Setting 13.5
06-D-B-4

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	2.3894G	73.54	74.00	-0.46	42.86	3	Horizontal	308	1.37	-	27.60	3.08	-
AV	2.3878G	52.86	54.00	-1.14	22.18	3	Horizontal	308	1.37	-	27.60	3.08	-
PK	2.4254G	110.81	Inf	-Inf	80.18	3	Horizontal	308	1.37	-	27.50	3.13	-
AV	2.4258G	97.78	Inf	-Inf	67.15	3	Horizontal	308	1.37	-	27.50	3.13	-
PK	2.4846G	61.40	74.00	-12.60	30.82	3	Horizontal	308	1.37	-	27.40	3.18	-
AV	2.4835G	45.77	54.00	-8.23	15.19	3	Horizontal	308	1.37	-	27.40	3.18	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

31/03/2021



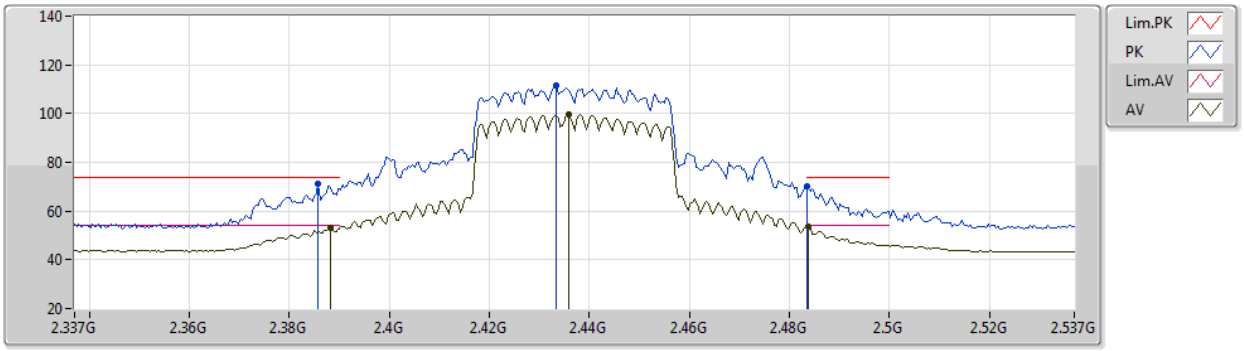
EUT Y_2TX
Setting 14.5
06-D-B-4

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	2.3898G	64.84	74.00	-9.16	34.16	3	Vertical	177	1.80	-	27.60	3.08	-
AV	2.3894G	48.49	54.00	-5.51	17.81	3	Vertical	177	1.80	-	27.60	3.08	-
PK	2.4326G	105.73	Inf	-Inf	75.13	3	Vertical	177	1.80	-	27.47	3.13	-
AV	2.4354G	94.36	Inf	-Inf	63.76	3	Vertical	177	1.80	-	27.46	3.14	-
PK	2.4835G	66.75	74.00	-7.25	36.17	3	Vertical	177	1.80	-	27.40	3.18	-
AV	2.4835G	48.27	54.00	-5.73	17.69	3	Vertical	177	1.80	-	27.40	3.18	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

31/03/2021



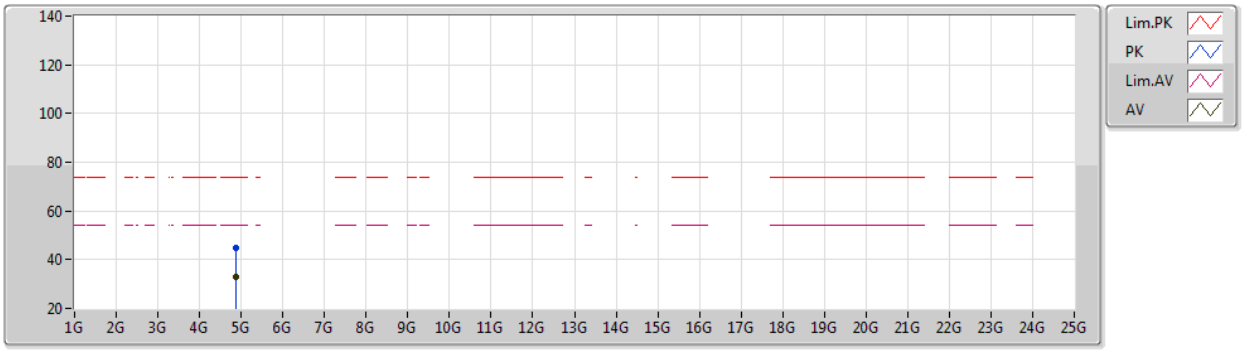
EUT Y_2TX
Setting 14.5
06-D-B-4

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	2.3858G	71.44	74.00	-2.56	40.77	3	Horizontal	308	1.00	-	27.60	3.07	-
AV	2.3882G	53.20	54.00	-0.80	22.52	3	Horizontal	308	1.00	-	27.60	3.08	-
PK	2.4334G	111.35	Inf	-Inf	80.75	3	Horizontal	308	1.00	-	27.47	3.13	-
AV	2.4358G	99.86	Inf	-Inf	69.26	3	Horizontal	308	1.00	-	27.46	3.14	-
PK	2.4835G	70.13	74.00	-3.87	39.55	3	Horizontal	308	1.00	-	27.40	3.18	-
AV	2.4838G	53.66	54.00	-0.34	23.08	3	Horizontal	308	1.00	-	27.40	3.18	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

31/03/2021



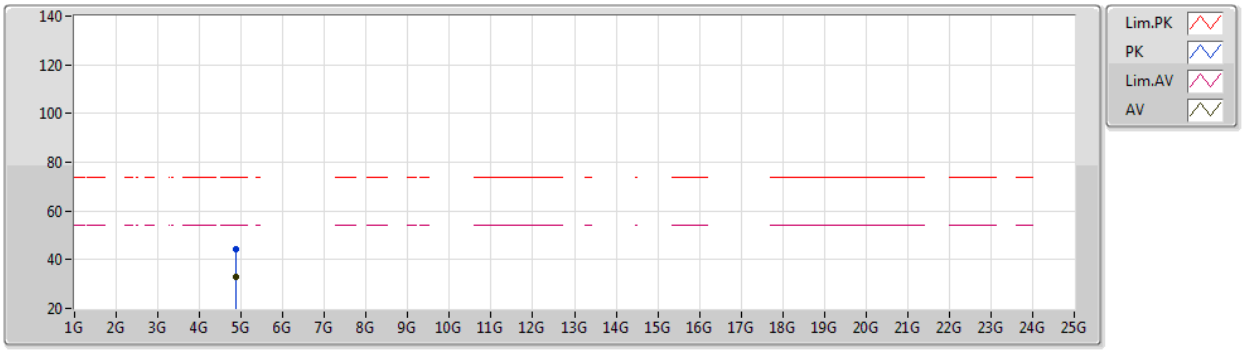
EUT Y_2TX
Setting 14.5
06-D-B-4

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	4.87314G	44.96	74.00	-29.04	40.49	3	Vertical	209	2.39	-	31.15	5.00	31.68
AV	4.87304G	32.88	54.00	-21.12	28.41	3	Vertical	209	2.39	-	31.15	5.00	31.68

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

31/03/2021



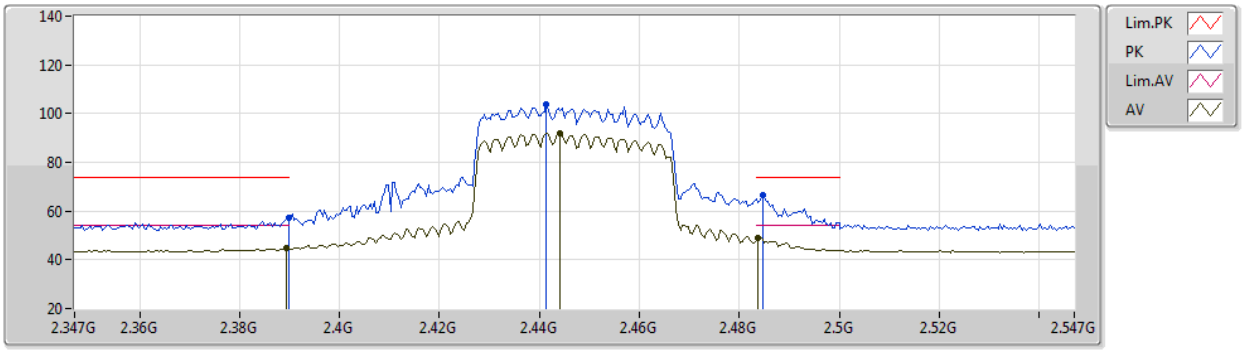
EUT Y_2TX
Setting 14.5
06-D-B-4

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	4.8743G	44.47	74.00	-29.53	40.00	3	Horizontal	82	2.38	-	31.15	5.00	31.68
AV	4.87086G	32.79	54.00	-21.21	28.32	3	Horizontal	82	2.38	-	31.16	5.00	31.69

802.11ax HEW40_Nss1,(MCS0)_2TX

2447MHz_TX

31/03/2021



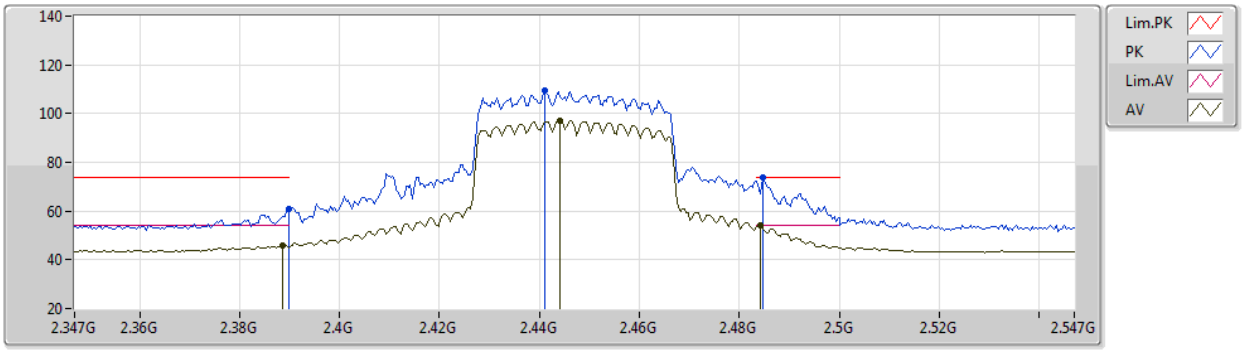
EUT Y_2TX
Setting 13
06-D-B-4

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	2.3898G	57.38	74.00	-16.62	26.70	3	Vertical	179	1.80	-	27.60	3.08	-
AV	2.3894G	44.81	54.00	-9.19	14.13	3	Vertical	179	1.80	-	27.60	3.08	-
PK	2.4414G	103.67	Inf	-Inf	73.10	3	Vertical	179	1.80	-	27.43	3.14	-
AV	2.4442G	92.09	Inf	-Inf	61.53	3	Vertical	179	1.80	-	27.42	3.14	-
PK	2.4846G	66.72	74.00	-7.28	36.14	3	Vertical	179	1.80	-	27.40	3.18	-
AV	2.4838G	49.17	54.00	-4.83	18.59	3	Vertical	179	1.80	-	27.40	3.18	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2447MHz_TX

31/03/2021



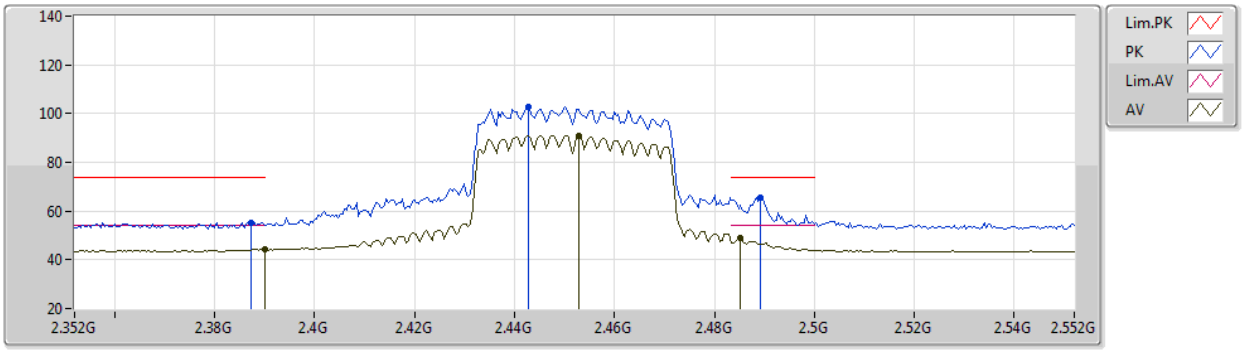
EUT Y_2TX
Setting 13
06-D-B-4

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	2.3898G	61.09	74.00	-12.91	30.41	3	Horizontal	308	2.37	-	27.60	3.08	-
AV	2.3886G	46.08	54.00	-7.92	15.40	3	Horizontal	308	2.37	-	27.60	3.08	-
PK	2.441G	109.34	Inf	-Inf	78.76	3	Horizontal	308	2.37	-	27.44	3.14	-
AV	2.4442G	96.92	Inf	-Inf	66.36	3	Horizontal	308	2.37	-	27.42	3.14	-
PK	2.4846G	73.75	74.00	-0.25	43.17	3	Horizontal	308	2.37	-	27.40	3.18	-
AV	2.4842G	53.96	54.00	-0.04	23.38	3	Horizontal	308	2.37	-	27.40	3.18	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

31/03/2021



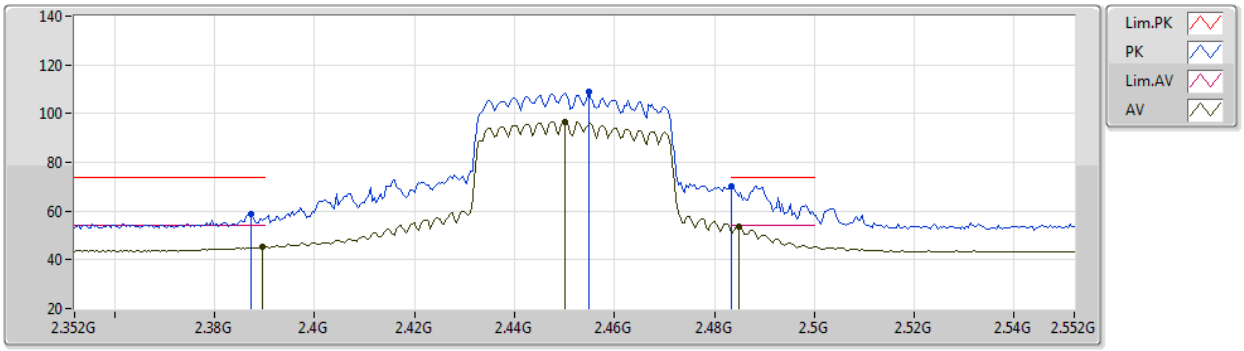
EUT Y_2TX
Setting 12.5
06-D-B-4

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	55.43	74.00	-18.57	24.76	3	Vertical	175	1.80	-	27.60	3.07	-
AV	2.39G	44.29	54.00	-9.71	13.61	3	Vertical	175	1.80	-	27.60	3.08	-
PK	2.4428G	102.86	Inf	-Inf	72.29	3	Vertical	175	1.80	-	27.43	3.14	-
AV	2.4528G	90.98	Inf	-Inf	60.43	3	Vertical	175	1.80	-	27.40	3.15	-
PK	2.4892G	65.61	74.00	-8.39	35.02	3	Vertical	175	1.80	-	27.40	3.19	-
AV	2.4852G	48.93	54.00	-5.07	18.34	3	Vertical	175	1.80	-	27.40	3.19	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

31/03/2021



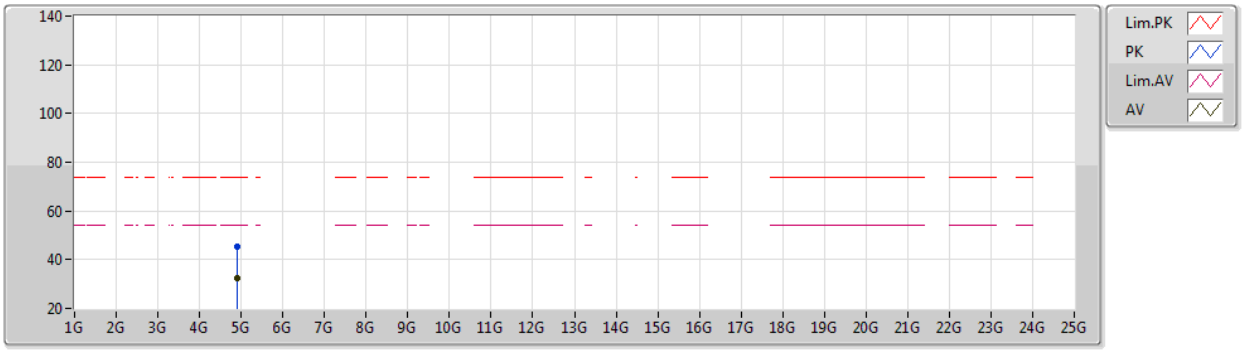
EUT Y_2TX
Setting 12.5
06-D-B-4

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	58.72	74.00	-15.28	28.05	3	Horizontal	314	2.69	-	27.60	3.07	-
AV	2.3896G	45.56	54.00	-8.44	14.88	3	Horizontal	314	2.69	-	27.60	3.08	-
PK	2.4548G	108.94	Inf	-Inf	78.39	3	Horizontal	314	2.69	-	27.40	3.15	-
AV	2.45G	96.68	Inf	-Inf	66.13	3	Horizontal	314	2.69	-	27.40	3.15	-
PK	2.4835G	70.41	74.00	-3.59	39.83	3	Horizontal	314	2.69	-	27.40	3.18	-
AV	2.4848G	53.63	54.00	-0.37	23.05	3	Horizontal	314	2.69	-	27.40	3.18	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

31/03/2021



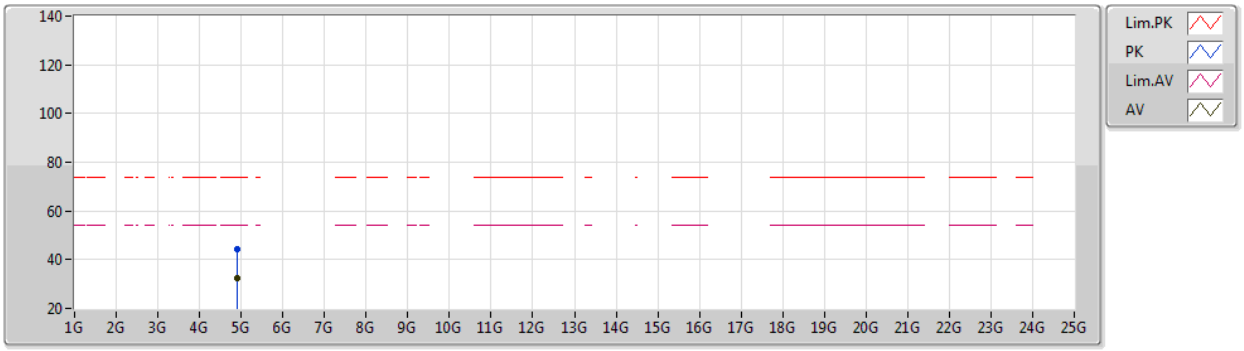
EUT Y_2TX
Setting 12.5
06-D-B-4

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	4.90134G	45.13	74.00	-28.87	40.67	3	Vertical	109	2.54	-	31.11	5.00	31.65
AV	4.9044G	32.57	54.00	-21.43	28.10	3	Vertical	109	2.54	-	31.12	5.00	31.65

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

31/03/2021



EUT Y_2TX
Setting 12.5
06-D-B-4

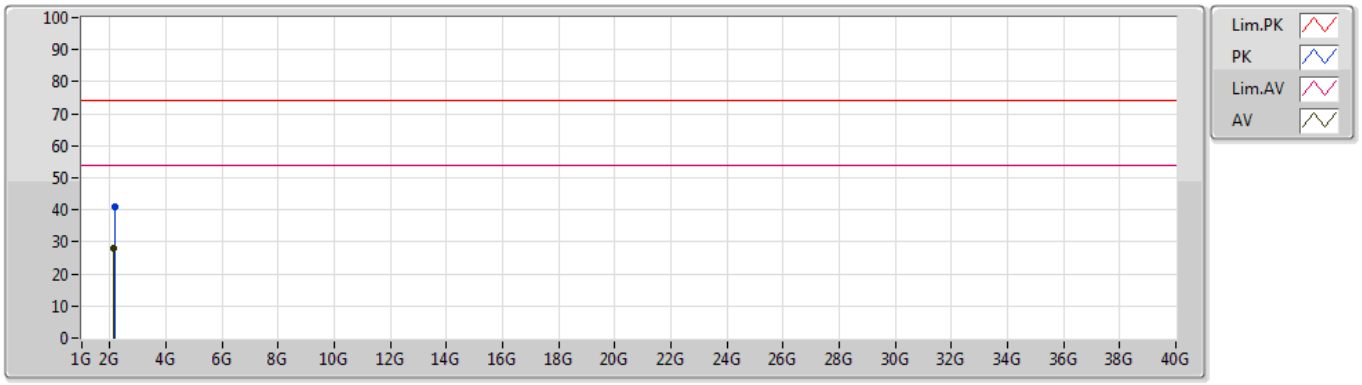
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.90242G	44.25	74.00	-29.75	39.79	3	Horizontal	287	2.09	-	31.11	5.00	31.65
AV	4.90348G	32.24	54.00	-21.76	27.78	3	Horizontal	287	2.09	-	31.11	5.00	31.65

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	2.15258G	28.05	54.00	-25.95	Vertical

Mode 1

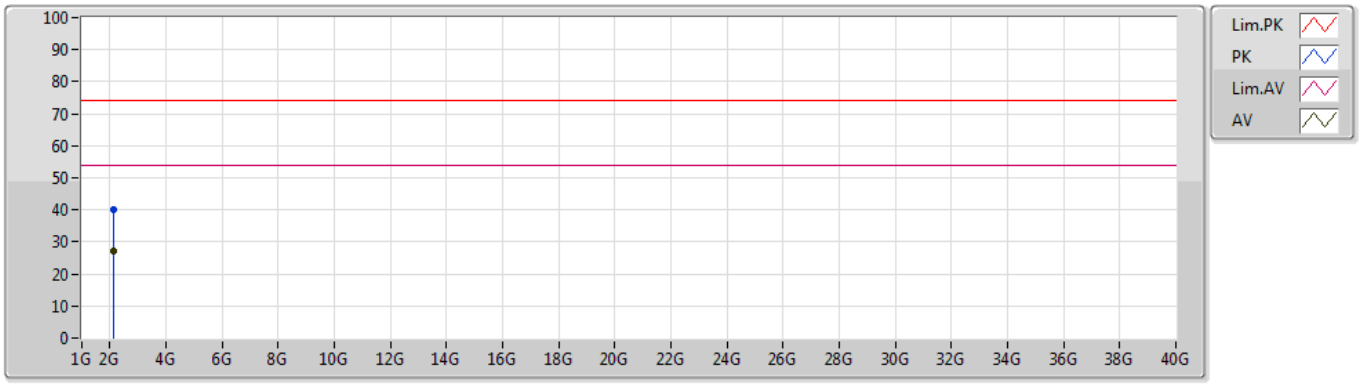
10/04/2021



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	2.15815G	40.88	74.00	-33.12	-2.51	3	Vertical	233	1.92	-	43.39	27.78	4.44	34.73
AV	2.15258G	28.05	54.00	-25.95	-2.51	3	Vertical	233	1.92	"Worst"	30.56	27.79	4.43	34.73

Mode 1

10/04/2021



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	2.15544G	40.23	74.00	-33.77	-2.51	3	Horizontal	170	2.36	-	42.74	27.79	4.43	34.73
AV	2.15356G	27.29	54.00	-26.71	-2.51	3	Horizontal	170	2.36	"Worst"	29.80	27.79	4.43	34.73