



RADIO TEST REPORT

FCC ID : MSQ-USBAXJM00
Equipment : Dual band AX1800 USB Wi-Fi Adapter
Brand Name : ASUS
Model Name : USB-AX56
Applicant : ASUSTeK Computer Inc
1F., No. 15, Lide Rd., Beitou, Taipei 112, Taiwan
Manufacturer (1) : ASUSTeK Computer Inc
1F., No. 15, Lide Rd., Beitou, Taipei 112, Taiwan
Manufacturer (2) : Lih Rong Electronic Enterprise Co.,Ltd
No. 486, Sec. 1, Wanshou Rd., Guishan Dist., Taoyuan City
33350, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 05, 2021, and testing was started from Mar. 24, 2021 and completed on Sep. 22, 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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Photographs of EUT v01



Summary of Test Result

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

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

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

Reviewed by: Sam Chen
Report Producer: Sandy Chuang



1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	802.11ax HEW40	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	PSA	RFFPA124209IMLB101	FPCB	I-PEX	2.33	3.09
2	2	PSA	RFFPA124211IMLB101	FPCB	I-PEX	2.38	2.83

Note 1: The above information was declared by manufacturer.

Note 2:

For 2.4GHz 11b/g/n/VHT/ax (2TX/2RX):

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz 11a/n/ac/ax (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	0.992	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.964	0.16	1.361m	1k
802.11ax HEW20	0.949	0.23	991.25u	3k
802.11ax HEW40	0.909	0.41	521.25u	3k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From host system		
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/> Without beamforming	
Function	<input type="checkbox"/> Point-to-multipoint	<input checked="" type="checkbox"/> Point-to-point	
Test Software Version	REALTEK Mass Production Kit (Ver. mp_v1.1.26)		

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 15.247
- ◆ ANSI C63.10-2013

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Benson Su	23.2~24.2 / 53~55	Sep. 22, 2021
Radiated (Above 1GHz)	03CH03-CB	Bruce Yang	20.4-21.5 / 57-59	Mar. 24, 2021~ Apr. 26, 2021
Radiated (Below 1GHz)	03CH05-CB	Bruce Yang	20.1-21.3 / 56-58	Mar. 24, 2021~ Apr. 26, 2021
AC Conduction	CO02-CB	Ryo Fan	22~23 / 60~61	Apr. 09, 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))

For RF Conducted:

Test Items	Uncertainty	Remark
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%

For Other tests:

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%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	13.5
2437MHz	13
2462MHz	12.75
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	13.5
2437MHz	13.25
2462MHz	13
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	13.5
2437MHz	13.5
2462MHz	13.25
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	13.75
2437MHz	13.5
2452MHz	13.25

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.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT in Z axis + WLAN 2.4GHz
2	EUT in Y axis + Extension USB Cradle + WLAN 2.4GHz
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Y axis + Extension USB Cradle + WLAN 5GHz
For operating mode 2 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position. EUT in X axis has been evaluated to be the worst case at Emissions in Emissions in Restricted Frequency Bands <Above 1GHz> ; thus, the measurement will follow this same test configuration.	
1	EUT in X axis + WLAN 2.4GHz
2	EUT in X axis + Extension USB Cradle + WLAN 2.4GHz
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in X axis + Extension USB Cradle + WLAN 5GHz
For operating mode 2 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 as below:	
1	EUT in X axis



2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Equipment Name	Brand	Model	Remark
Extension USB Cradle	MOST WELL	Cradle Cable	Shielded, 1m

2.5 Support Equipment

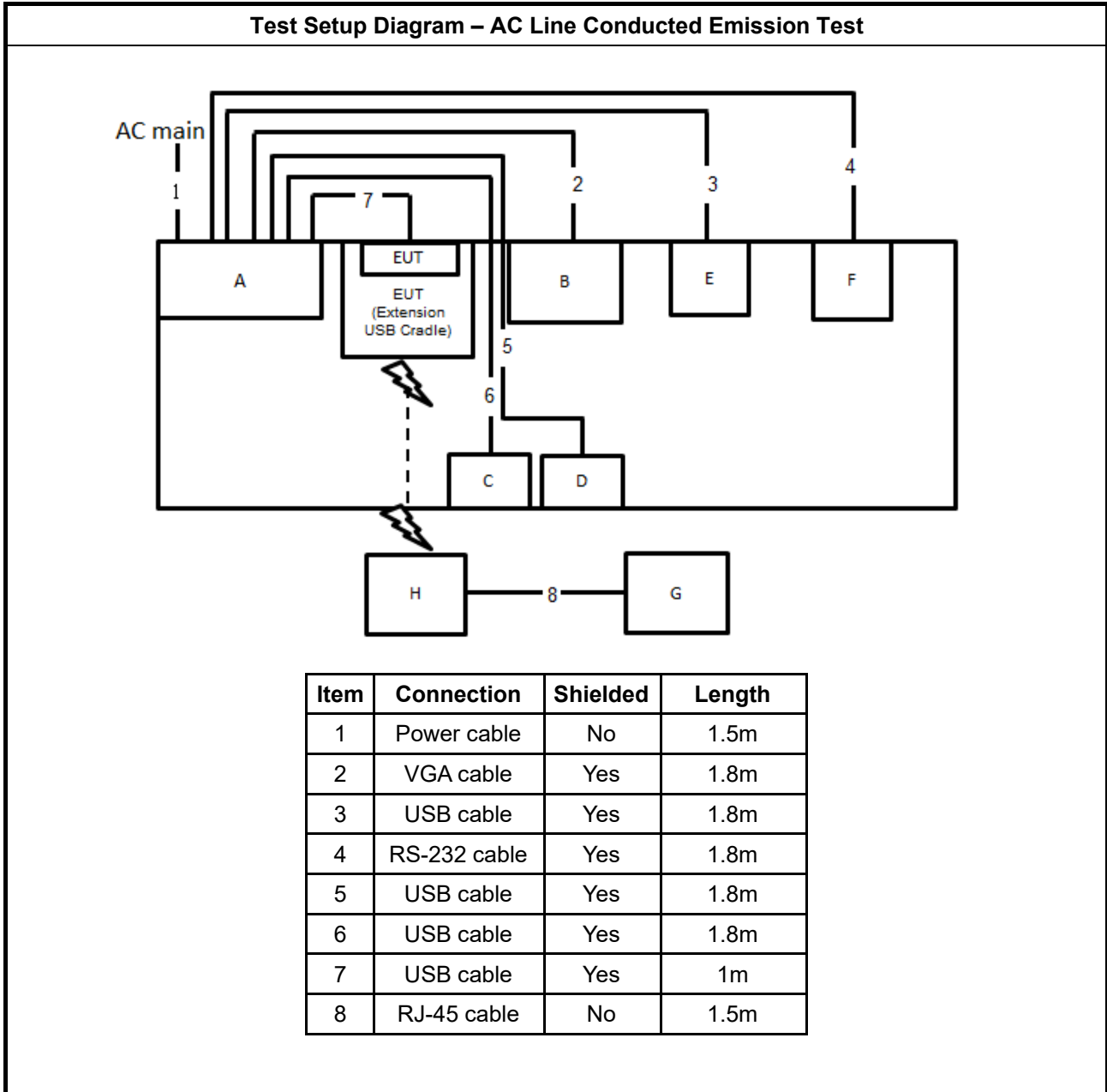
For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PC	DELL	T3400	N/A
B	LCD Monitor	DELL	1704FPTt	N/A
C	Keyboard	iCooky	SK068	N/A
D	Mouse	HP	FM100	N/A
E	Printer	EPSON	LQ-300+	N/A
F	Modem	ACEEX	DM1414	IFAXDM1414
G	AP NB	DELL	E6430	N/A
H	AP	ASUS	RP-N53	MSQ-RPN53

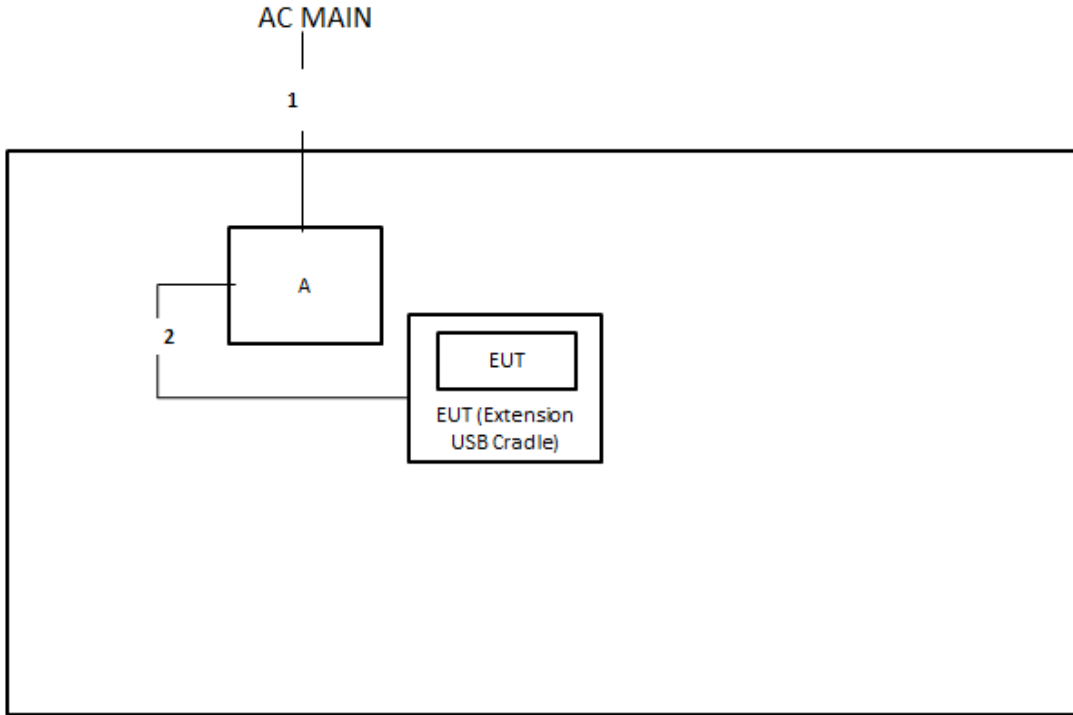
For Radiated and RF Conducted:

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

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	USB cable	Yes	1m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

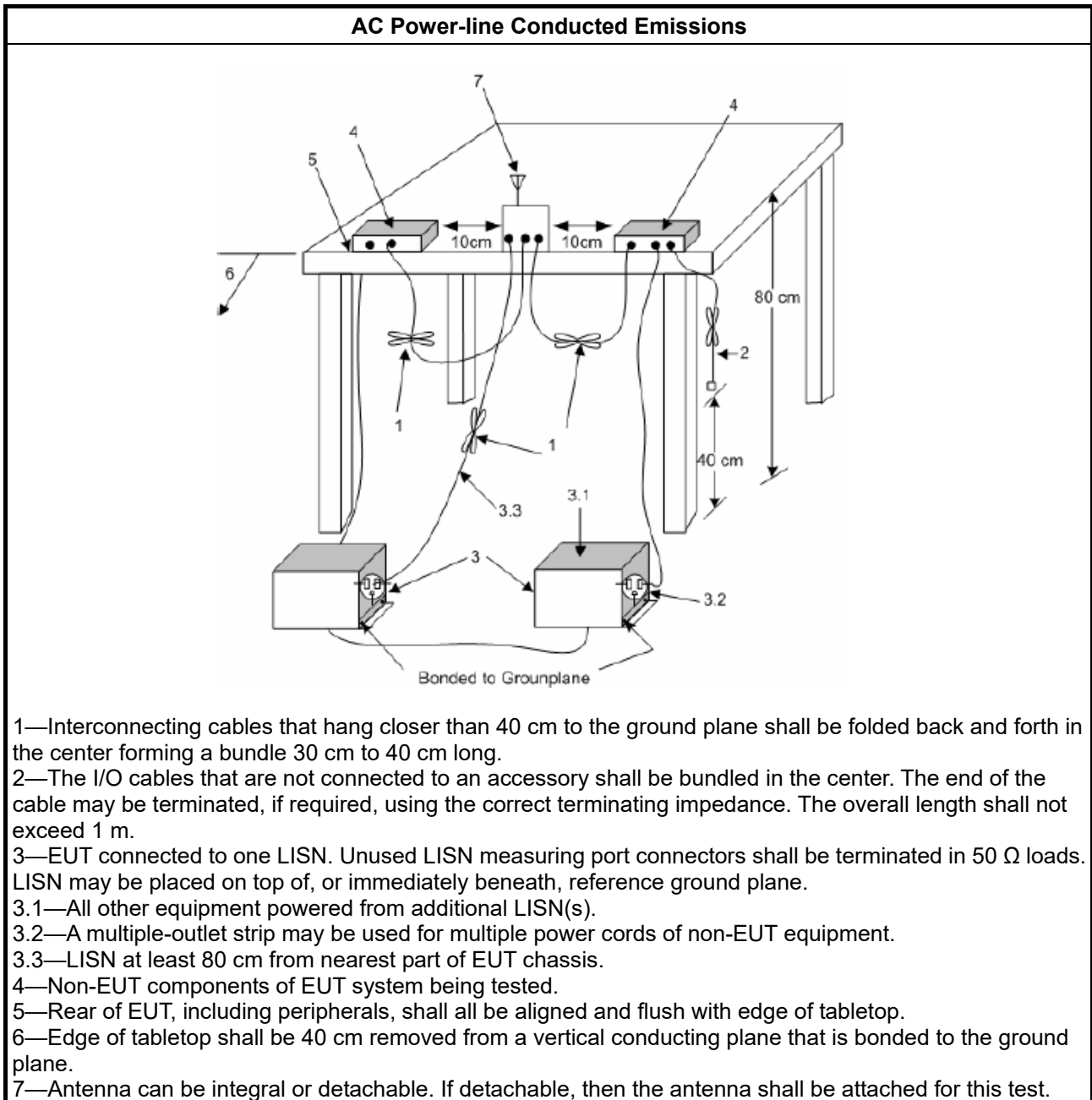
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

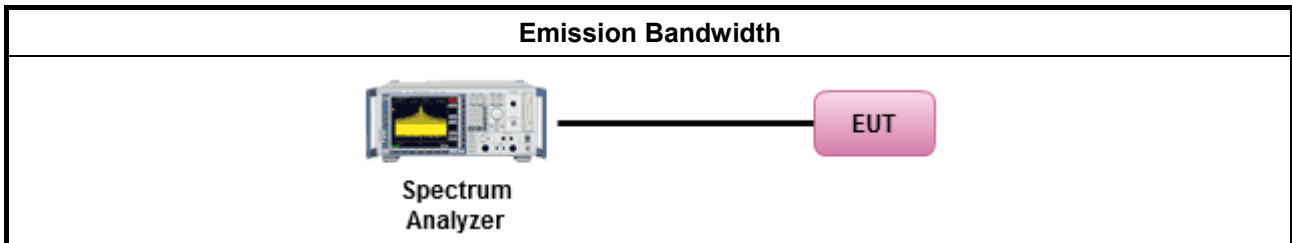
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none">▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none">▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none">▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none">▪ Smart antenna system (SAS):
	<ul style="list-style-type: none">- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none">- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none">- 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

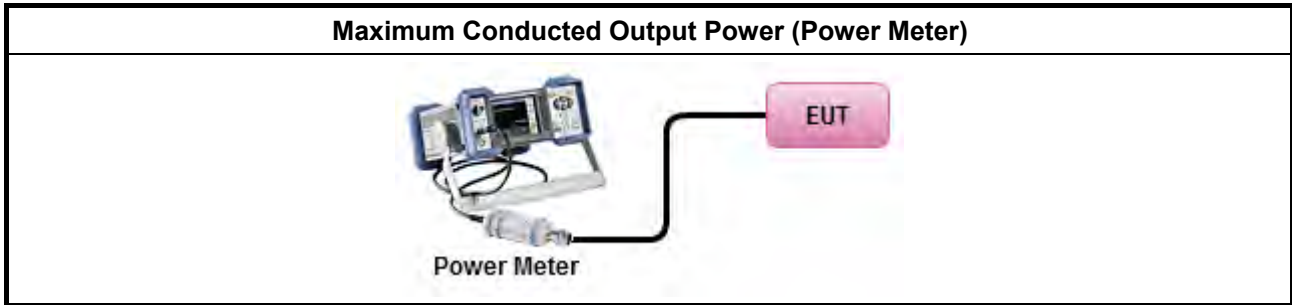
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
	<ul style="list-style-type: none"> ▪ 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.
	<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

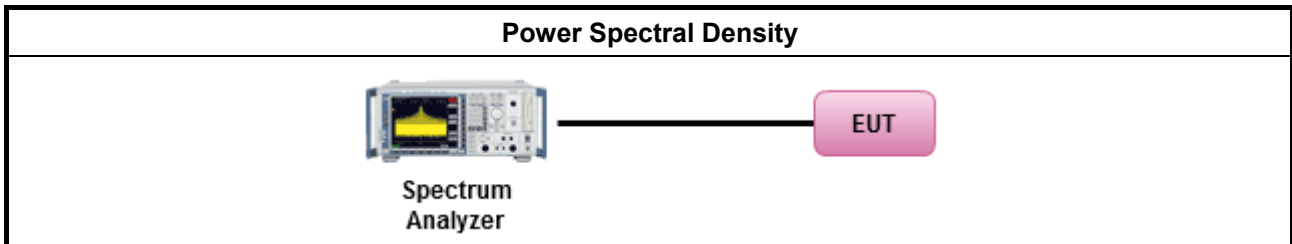
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

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

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

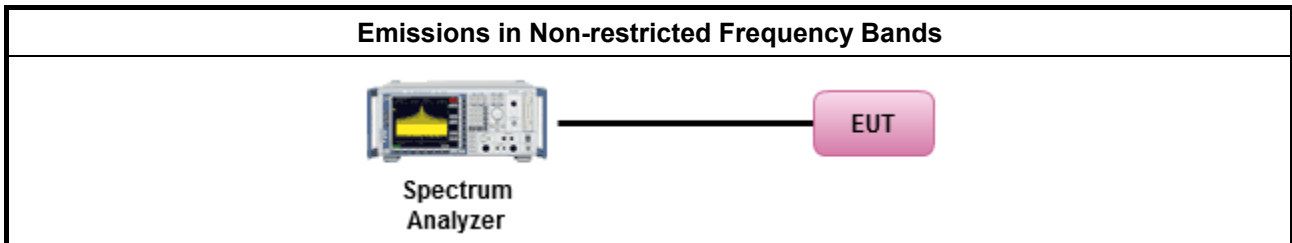
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

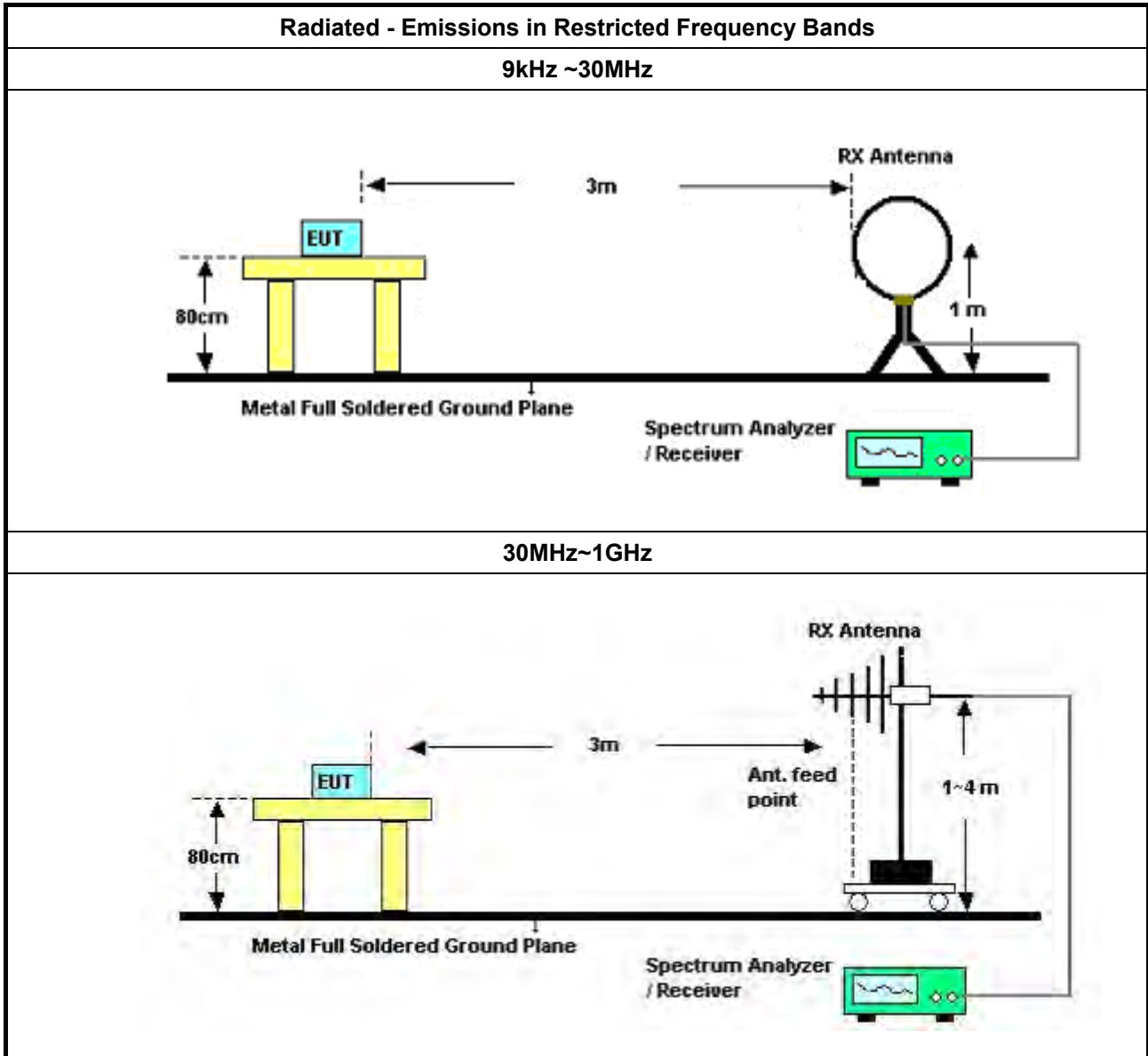
Refer a test equipment and calibration data table in this test report.

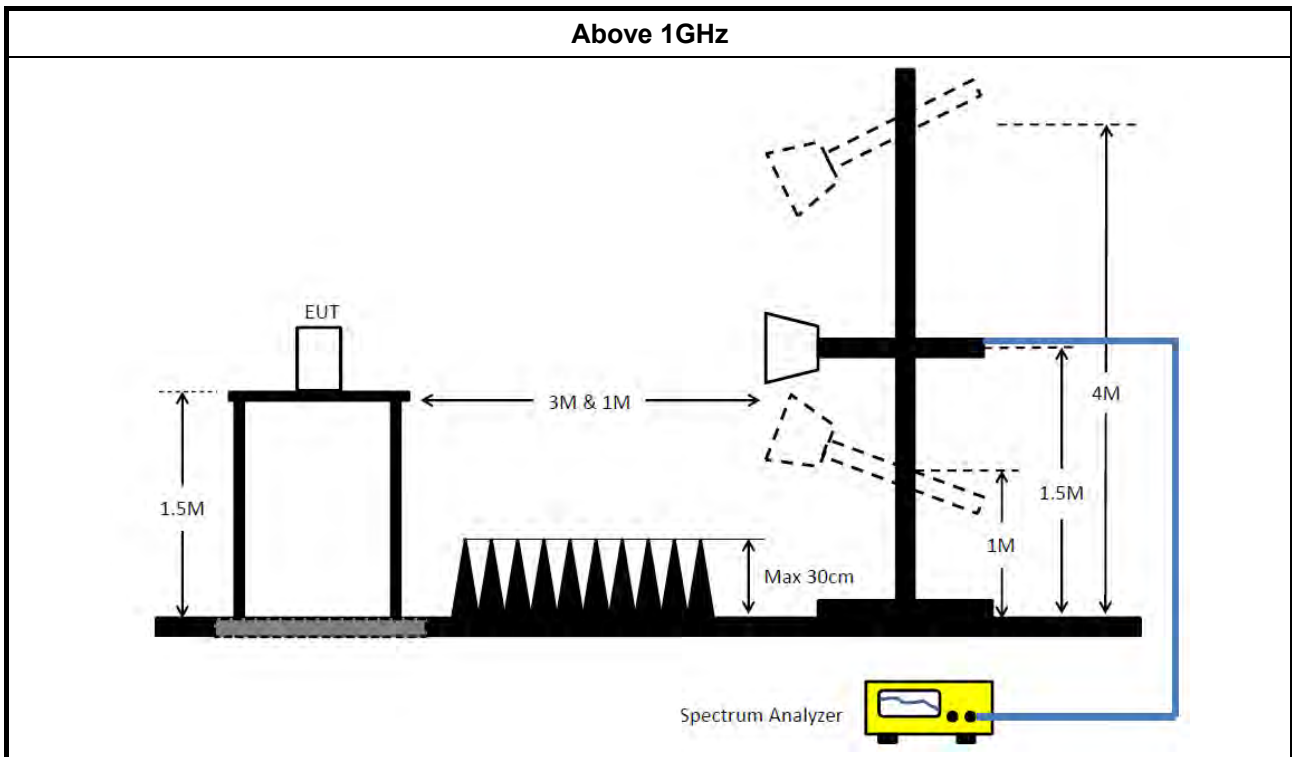


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).
<input type="checkbox"/>	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ 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.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ 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).
	<ul style="list-style-type: none"> ▪ 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
	<ul style="list-style-type: none"> ▪ 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





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)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 18, 2021	Mar. 17, 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)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 16, 2021	Mar. 15, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 10, 2020	Aug. 09, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 27, 2020	Mar. 26, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 28, 2020	May 27, 2021	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 26, 2021	Jan. 25, 2022	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	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-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
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)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 02, 2021	Aug. 01, 2022	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1531343	300MHz~40GHz	Aug. 15, 2021	Aug. 14, 2022	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1728001	300MHz~40GHz	Aug. 15, 2021	Aug. 14, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

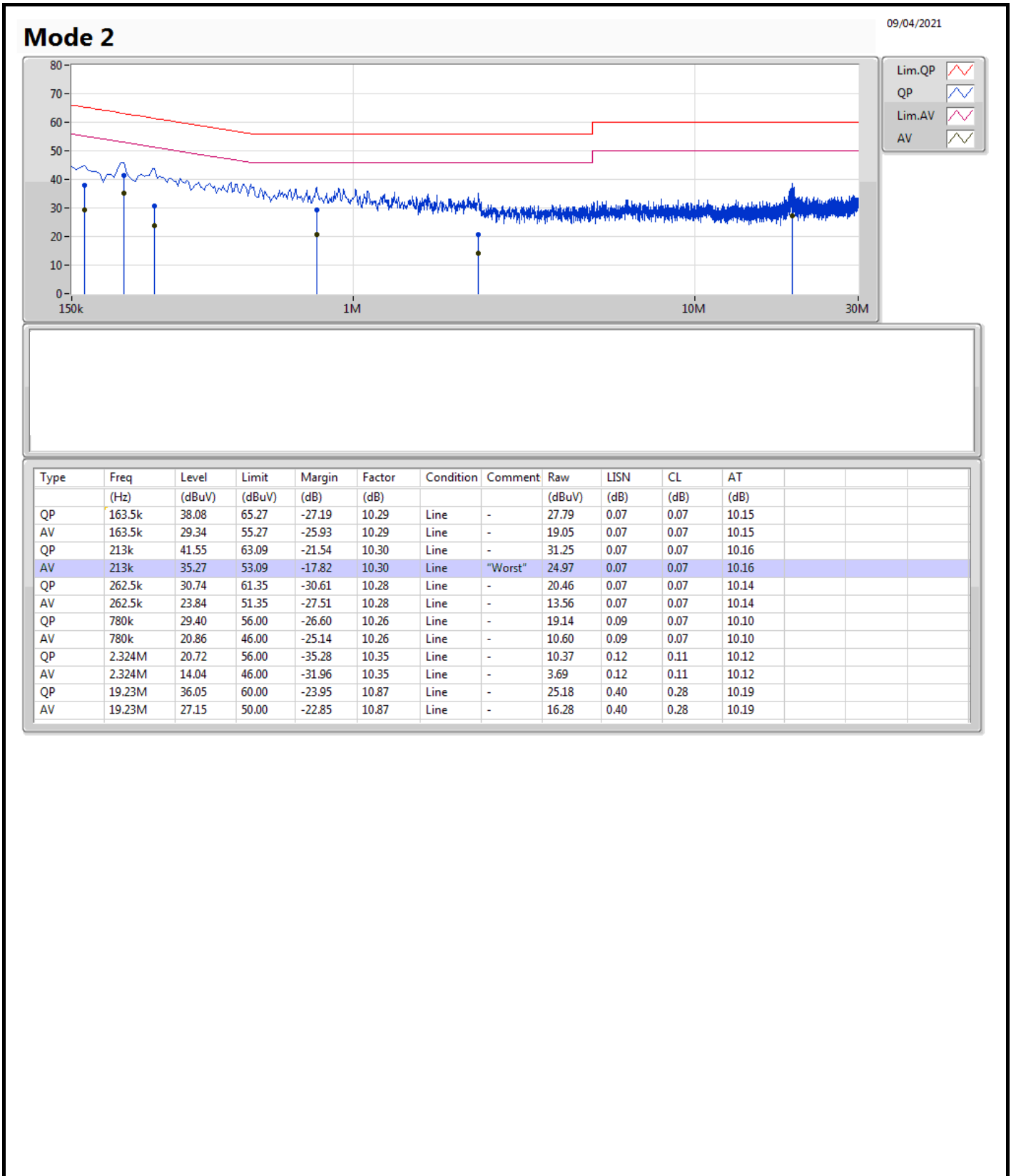
Note: Calibration Interval of instruments listed above is one year.

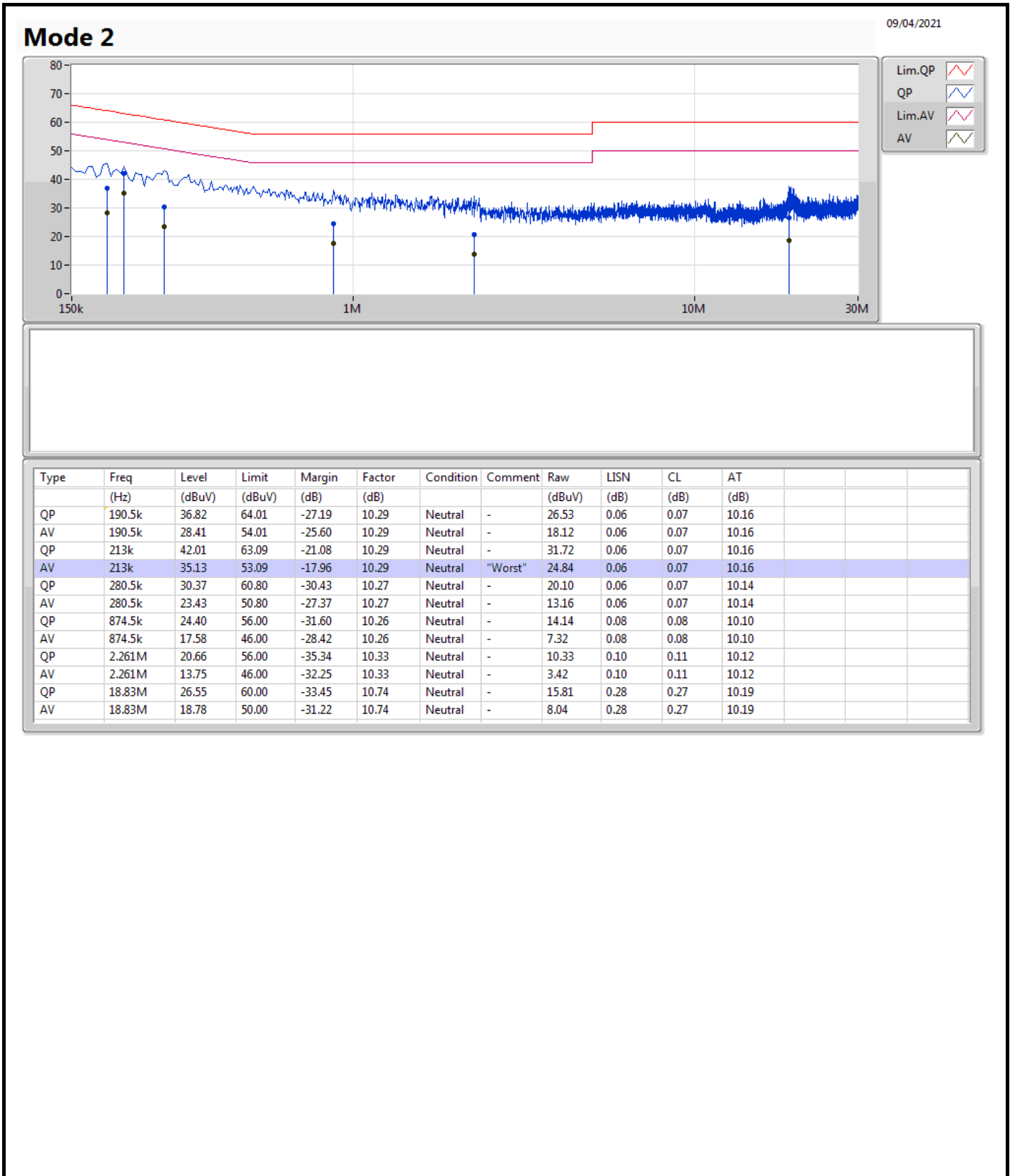
NCR means Non-Calibration required.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	213k	35.27	53.09	-17.82	Line





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	11.05M	14.943M	14M9G1D	10.075M	14.918M
802.11g_Nss1,(6Mbps)_2TX	16.325M	16.417M	16M4D1D	16.3M	16.392M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.9M	18.916M	18M9D1D	18.725M	18.866M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.9M	37.981M	38M0D1D	37.7M	37.881M

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	10.1M	14.918M	10.075M	14.918M
2437MHz	Pass	500k	10.1M	14.918M	11.05M	14.918M
2462MHz	Pass	500k	10.1M	14.943M	10.1M	14.918M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.392M	16.325M	16.417M
2437MHz	Pass	500k	16.3M	16.392M	16.3M	16.392M
2462MHz	Pass	500k	16.325M	16.392M	16.325M	16.392M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.875M	18.891M	18.9M	18.891M
2437MHz	Pass	500k	18.875M	18.916M	18.9M	18.866M
2462MHz	Pass	500k	18.725M	18.891M	18.825M	18.916M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.9M	37.931M	37.7M	37.931M
2437MHz	Pass	500k	37.9M	37.881M	37.9M	37.881M
2452MHz	Pass	500k	37.85M	37.981M	37.7M	37.931M

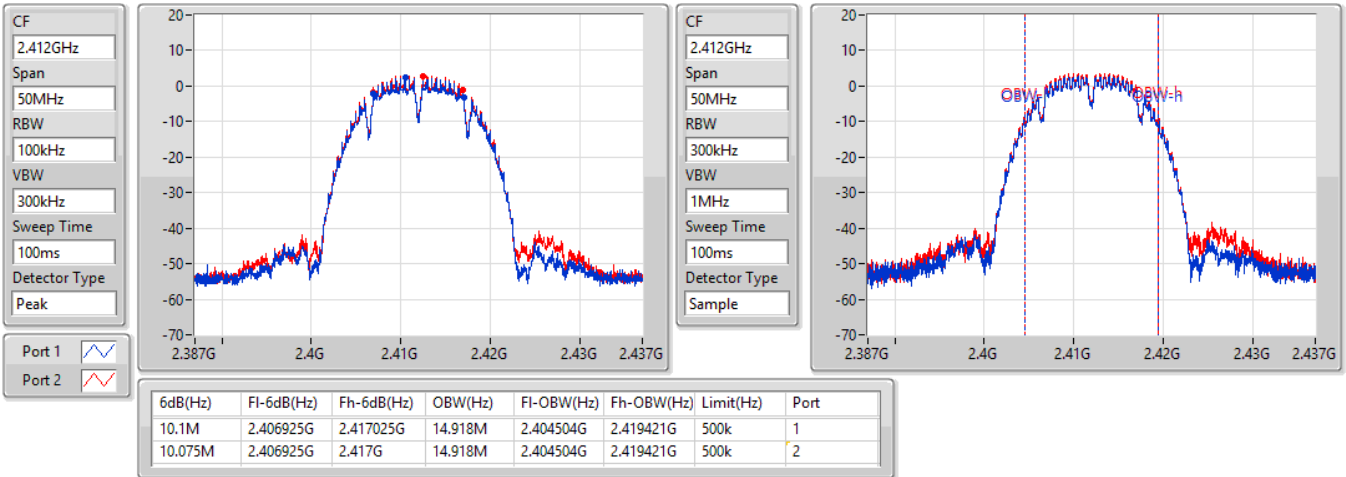
Port X-N dB = Port X 6dB down bandwidth;
 Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_2TX

EBW

2412MHz

22/09/2021

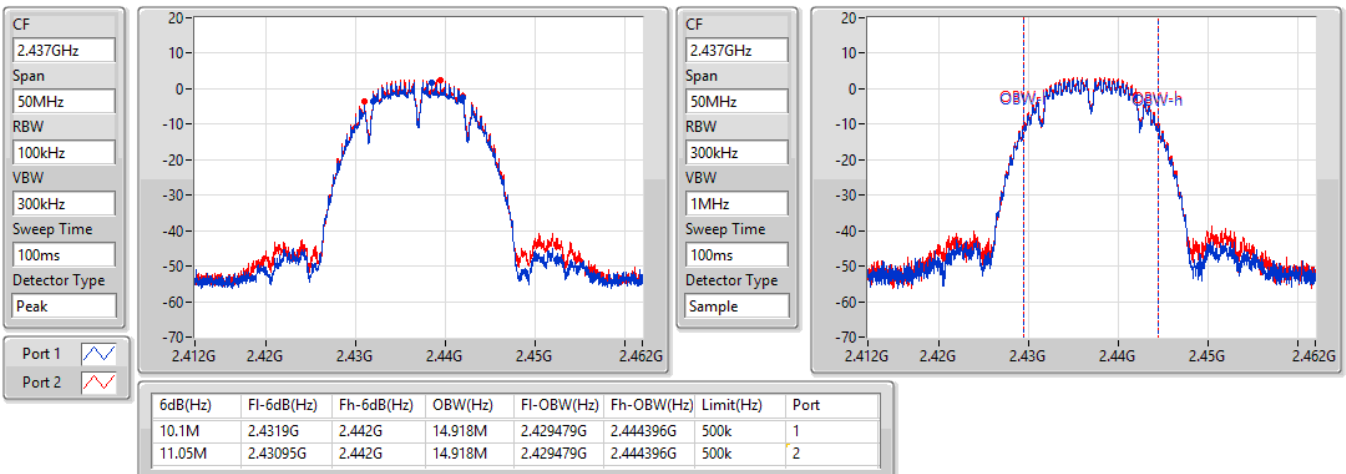


802.11b_Nss1,(1Mbps)_2TX

EBW

2437MHz

22/09/2021

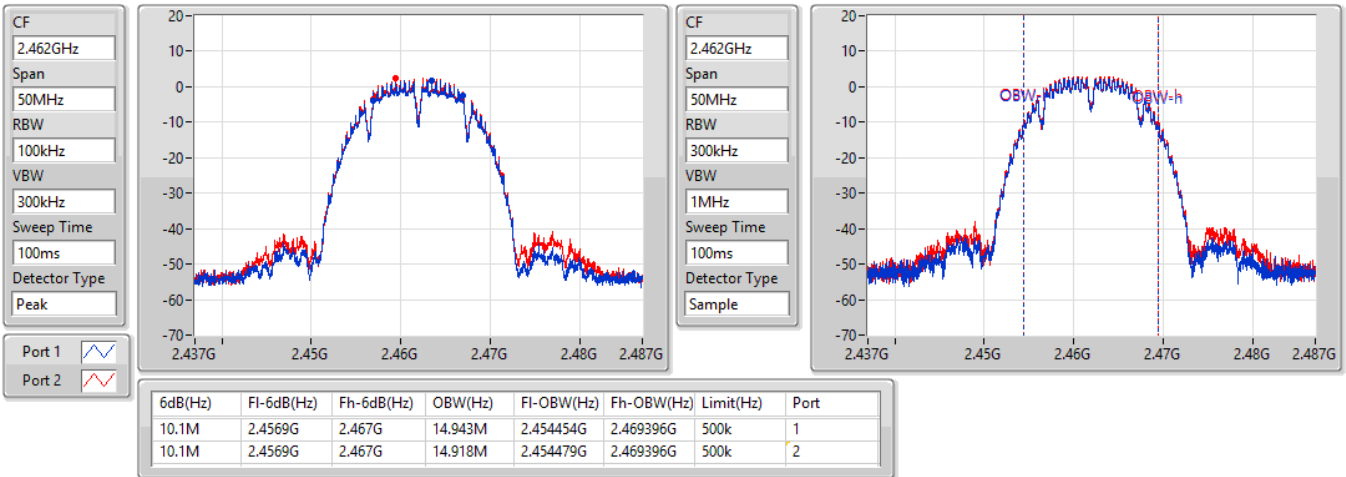


802.11b_Nss1,(1Mbps)_2TX

EBW

2462MHz

22/09/2021

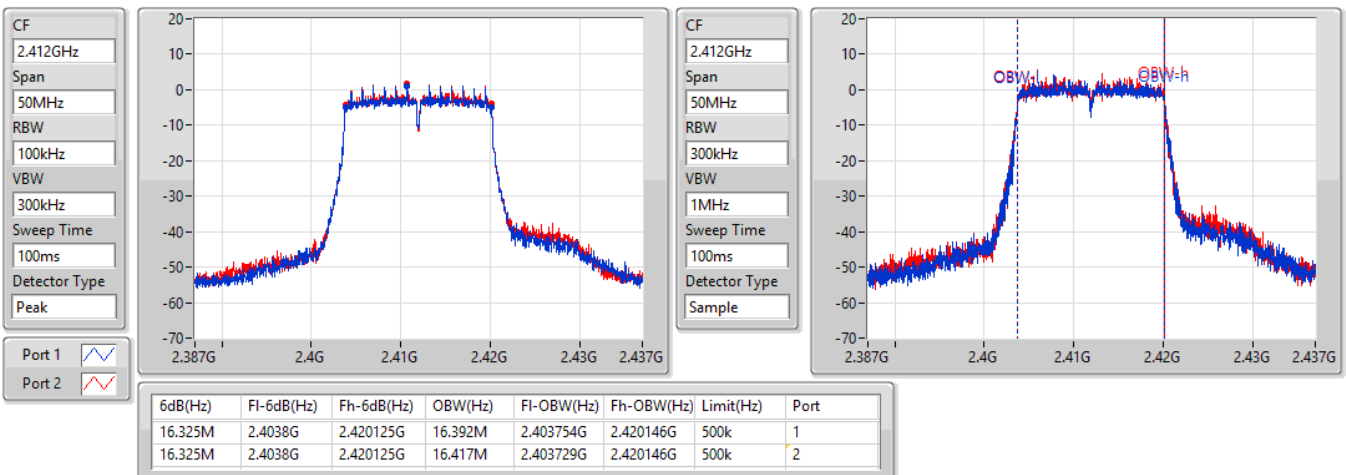


802.11g_Nss1,(6Mbps)_2TX

EBW

2412MHz

22/09/2021

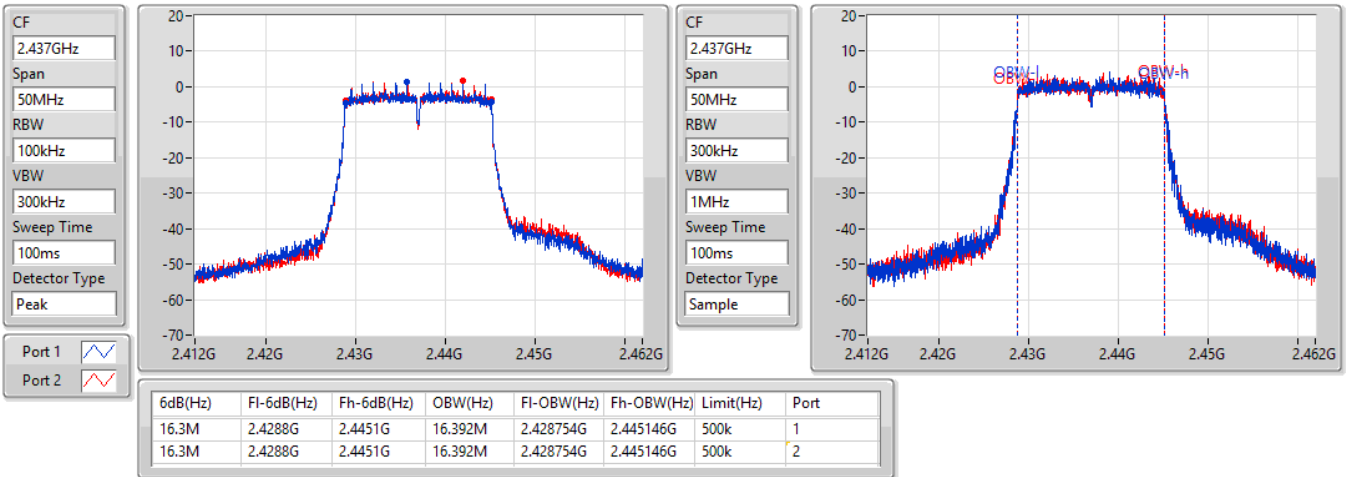


802.11g_Nss1,(6Mbps)_2TX

EBW

2437MHz

22/09/2021

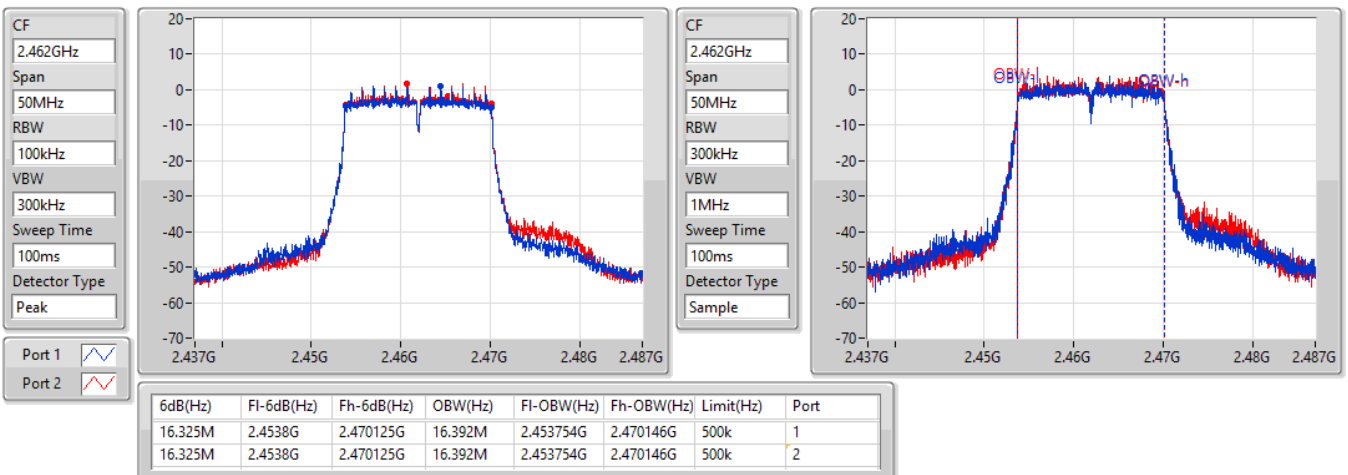


802.11g_Nss1,(6Mbps)_2TX

EBW

2462MHz

22/09/2021

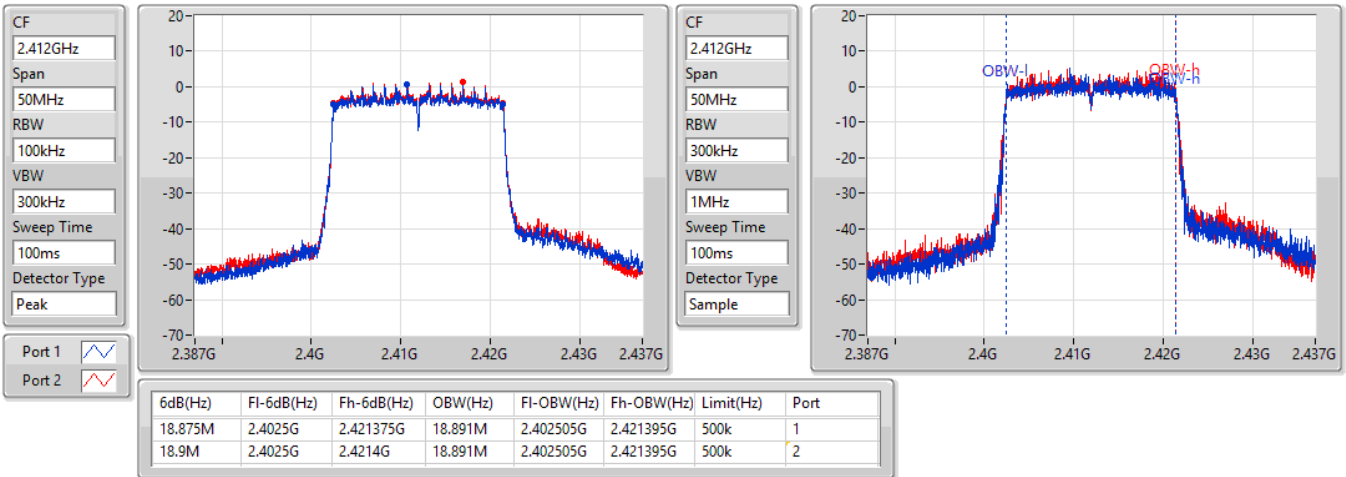


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2412MHz

22/09/2021

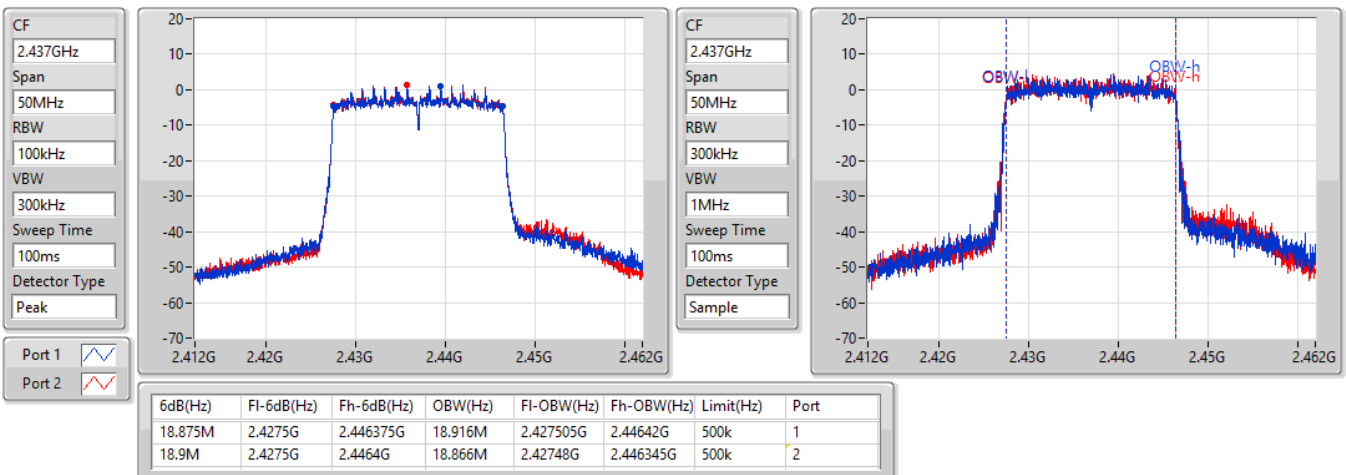


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2437MHz

22/09/2021

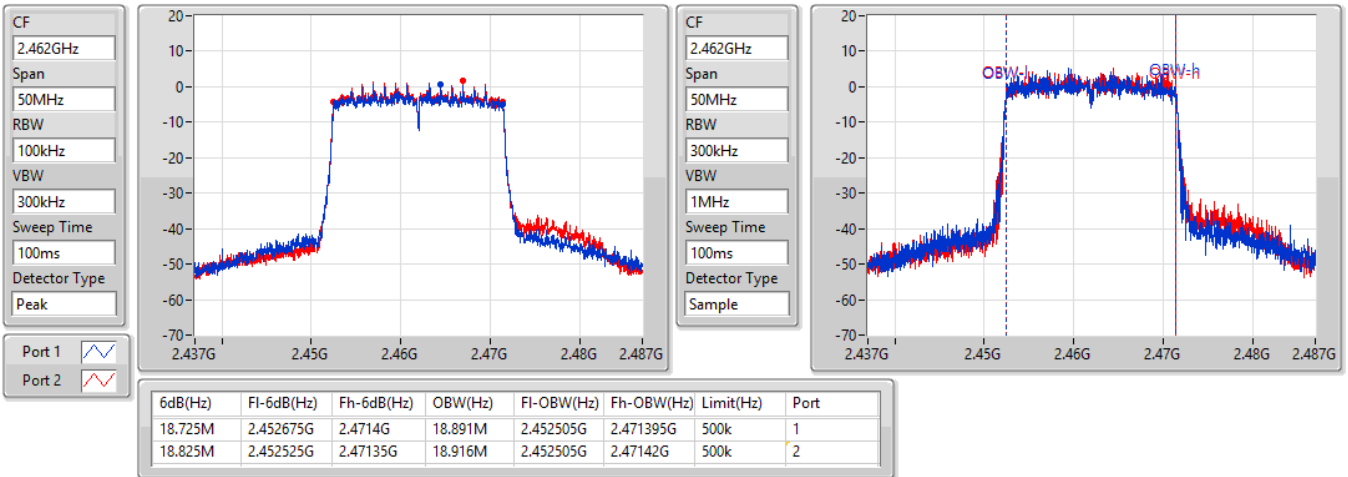


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2462MHz

22/09/2021

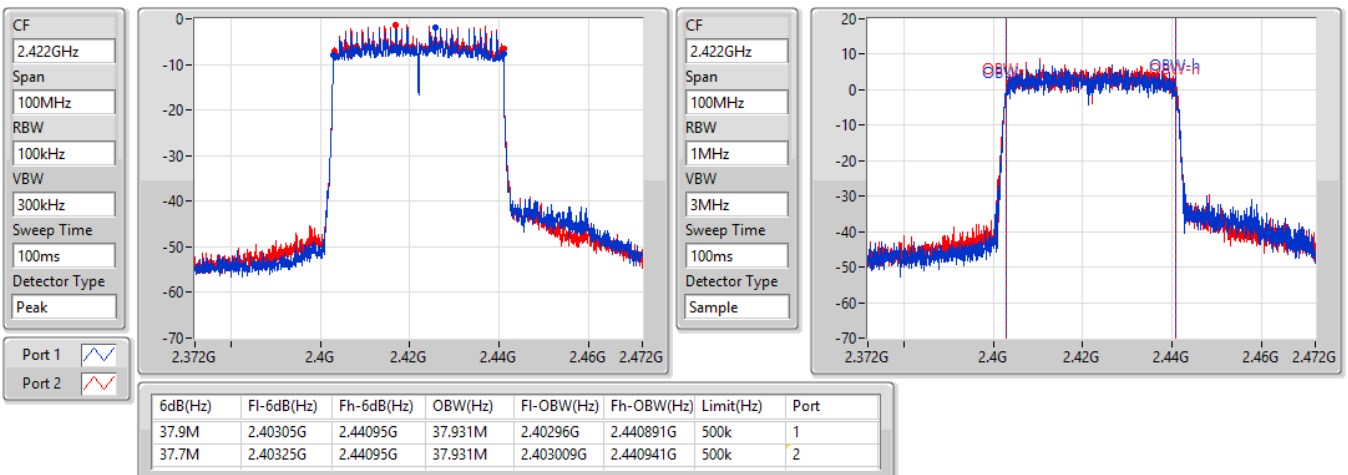


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2422MHz

22/09/2021

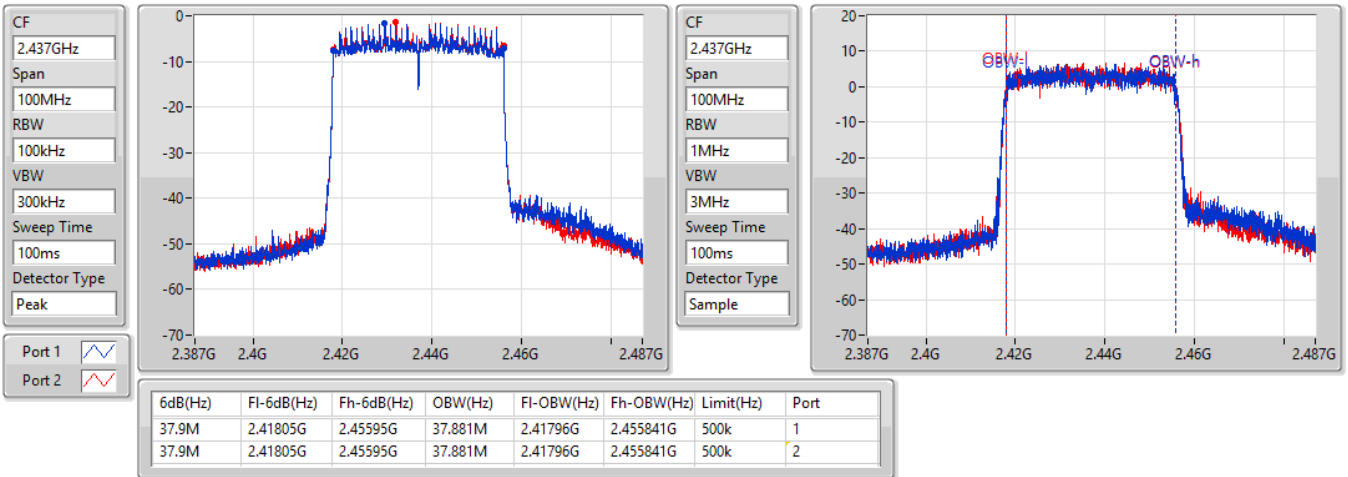


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2437MHz

22/09/2021

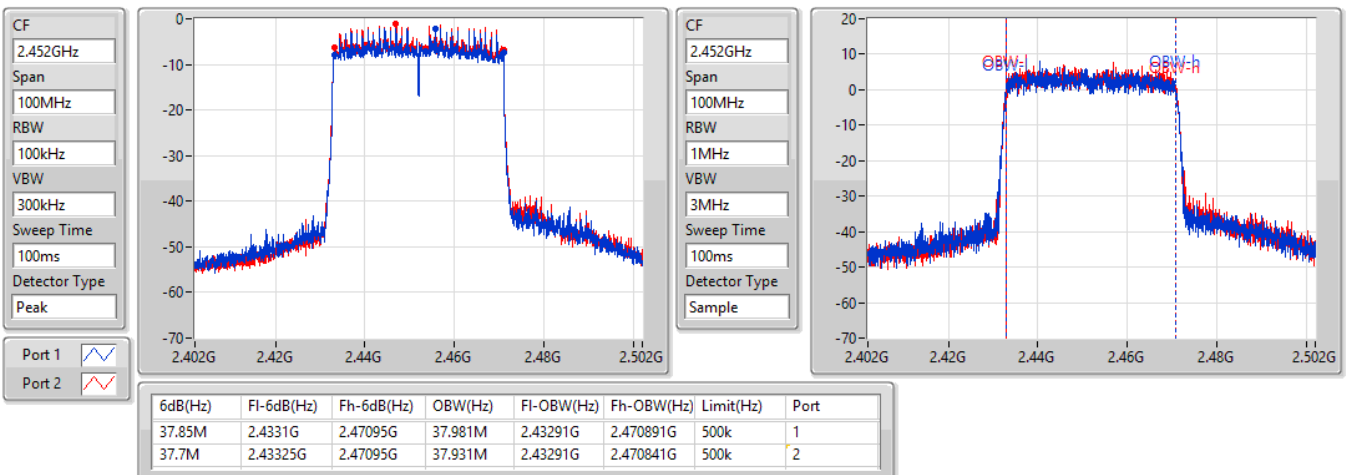


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2452MHz

22/09/2021





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	15.66	0.03681
802.11g_Nss1,(6Mbps)_2TX	15.82	0.03819
802.11ax HEW20_Nss1,(MCS0)_2TX	15.84	0.03837
802.11ax HEW40_Nss1,(MCS0)_2TX	15.86	0.03855

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.38	12.55	12.75	15.66	30.00
2437MHz	Pass	2.38	12.06	12.59	15.34	30.00
2462MHz	Pass	2.38	12.04	12.37	15.22	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.38	12.68	12.94	15.82	30.00
2437MHz	Pass	2.38	12.75	12.79	15.78	30.00
2462MHz	Pass	2.38	12.61	12.91	15.77	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.38	12.51	12.86	15.70	30.00
2437MHz	Pass	2.38	12.93	12.72	15.84	30.00
2462MHz	Pass	2.38	12.55	12.88	15.73	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.38	12.57	12.99	15.80	30.00
2437MHz	Pass	2.38	12.84	12.85	15.86	30.00
2452MHz	Pass	2.38	12.53	12.98	15.77	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-9.64
802.11g_Nss1,(6Mbps)_2TX	-11.70
802.11ax HEW20_Nss1,(MCS0)_2TX	-11.78
802.11ax HEW40_Nss1,(MCS0)_2TX	-13.42

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.37	-11.37	-11.78	-9.64	8.00
2437MHz	Pass	5.37	-12.84	-12.11	-11.03	8.00
2462MHz	Pass	5.37	-12.87	-12.52	-9.69	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.37	-15.12	-14.55	-12.02	8.00
2437MHz	Pass	5.37	-15.07	-14.57	-11.94	8.00
2462MHz	Pass	5.37	-15.27	-14.21	-11.70	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.37	-15.57	-14.73	-12.46	8.00
2437MHz	Pass	5.37	-14.94	-14.59	-11.78	8.00
2462MHz	Pass	5.37	-14.49	-14.52	-12.17	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.37	-17.50	-15.96	-13.67	8.00
2437MHz	Pass	5.37	-17.03	-15.91	-13.42	8.00
2452MHz	Pass	5.37	-17.61	-15.94	-13.71	8.00

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

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

22/09/2021

CF
2.412GHz

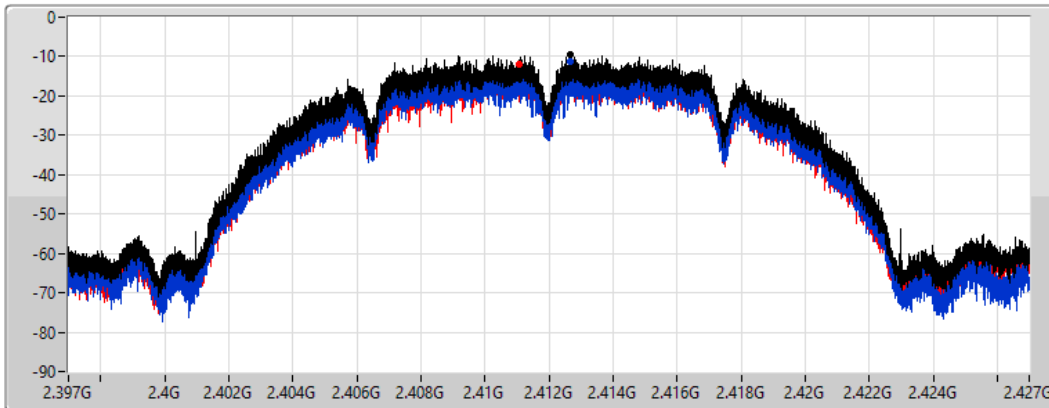
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.64	-9.64	-11.37	-11.78

802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

22/09/2021

CF
2.437GHz

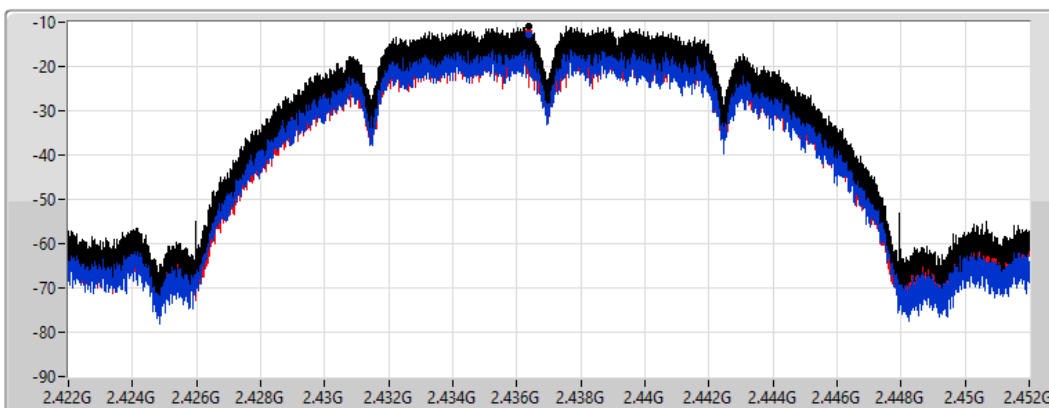
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.03	-11.03	-12.84	-12.11

802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

22/09/2021

CF
2.462GHz

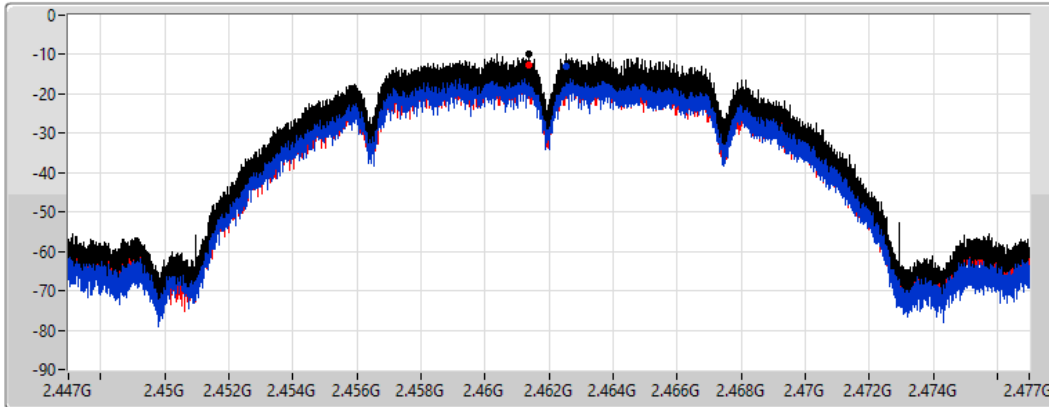
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.69	-9.69	-12.87	-12.52

802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

22/09/2021

CF
2.412GHz

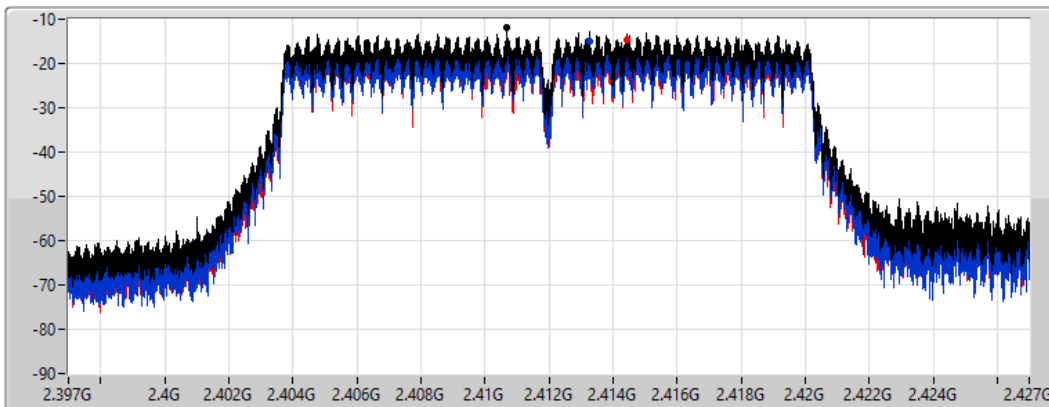
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.02	-12.02	-15.12	-14.55

802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

22/09/2021

CF
2.437GHz

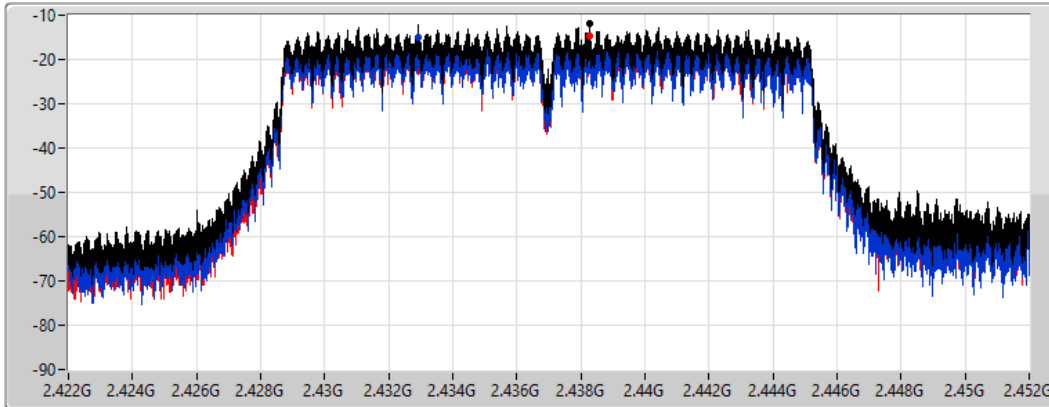
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.94	-11.94	-15.07	-14.57

802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

22/09/2021

CF
2.462GHz

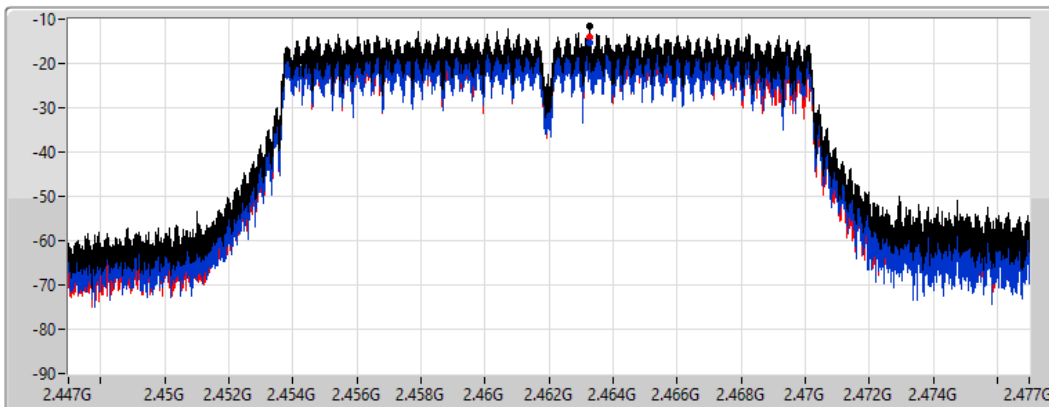
Span
30MHz


RBW
3kHz


VBW
10kHz


Sweep Time
4.424357ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.70	-11.70	-15.27	-14.21

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

22/09/2021

CF
2.412GHz

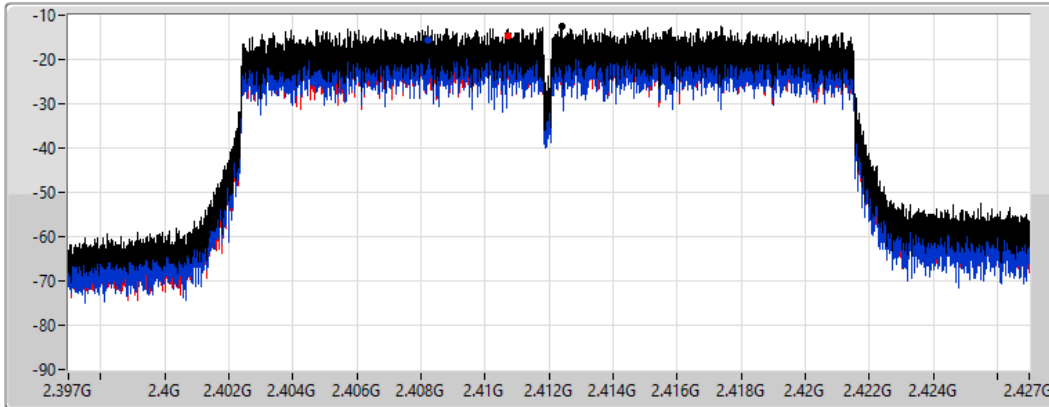
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.46	-12.46	-15.57	-14.73

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

22/09/2021

CF
2.437GHz

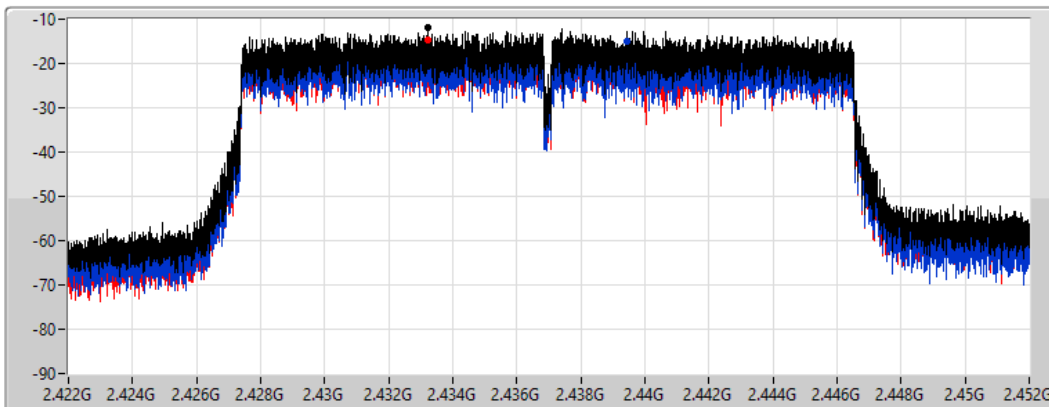
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum

Port 1

Port 2

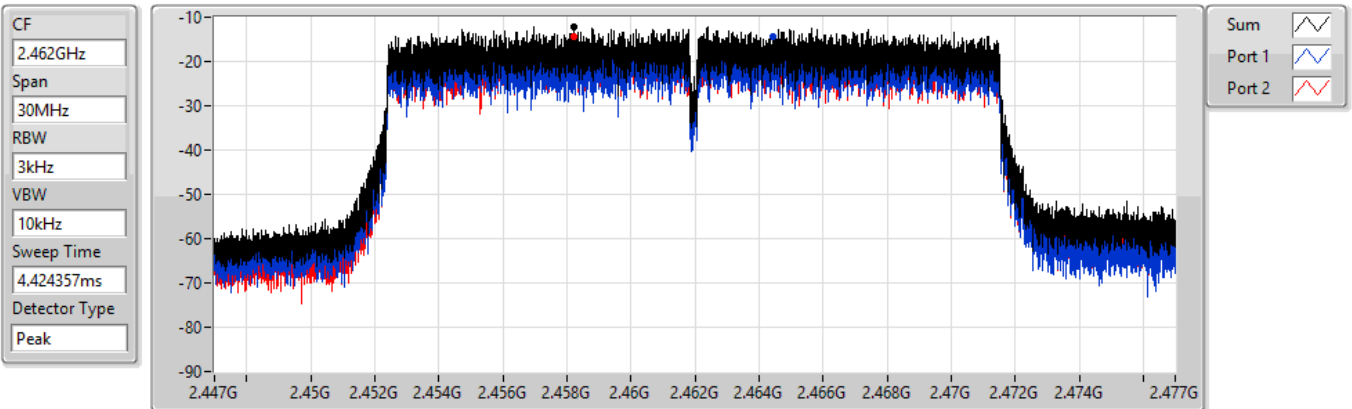
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.78	-11.78	-14.94	-14.59

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

22/09/2021



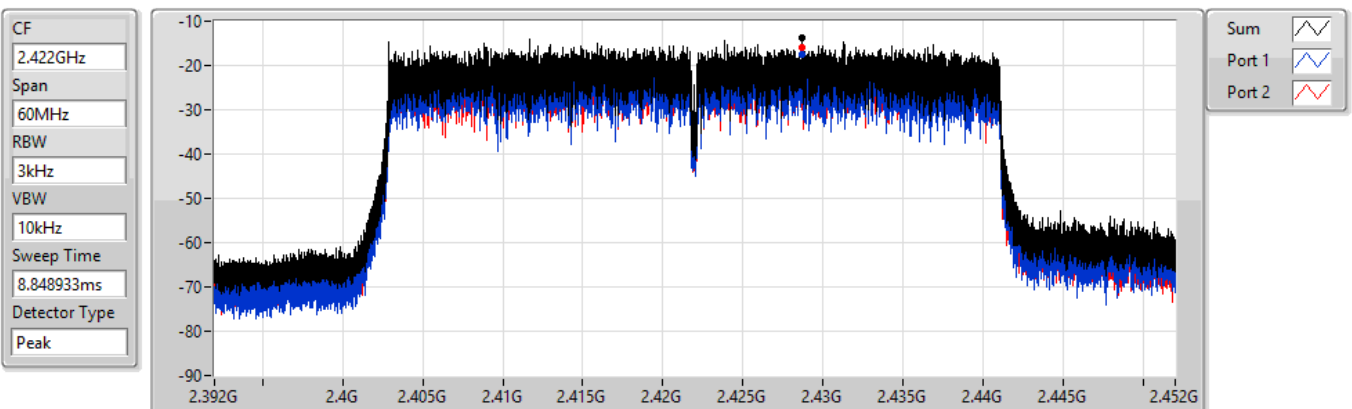
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.17	-12.17	-14.49	-14.52

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

22/09/2021



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.67	-13.67	-17.50	-15.96

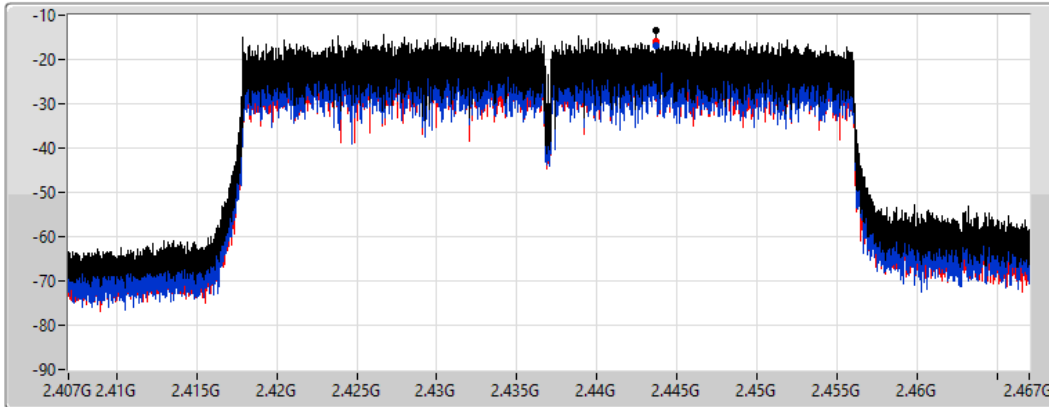
802.11ax HEW40_Nss1,(MCS0)_2TX




PSD

2437MHz

22/09/2021

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



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.42	-13.42	-17.03	-15.91

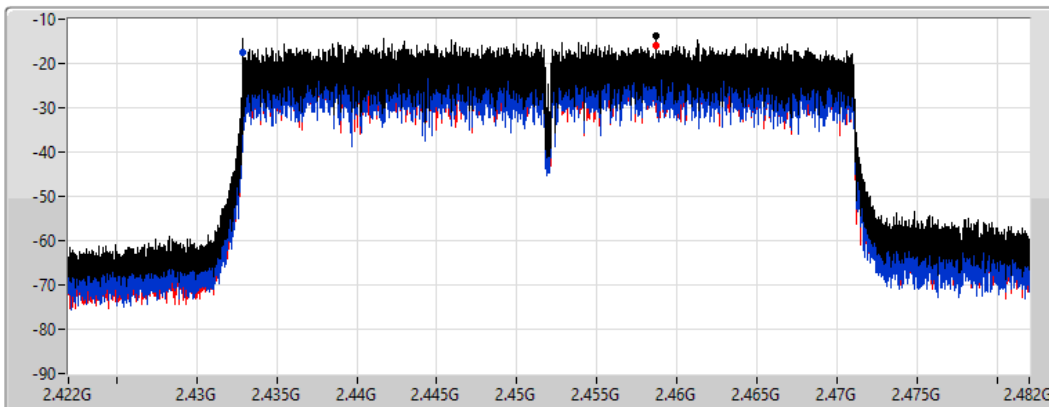
802.11ax HEW40_Nss1,(MCS0)_2TX




PSD

2452MHz

22/09/2021

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



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.71	-13.71	-17.61	-15.94



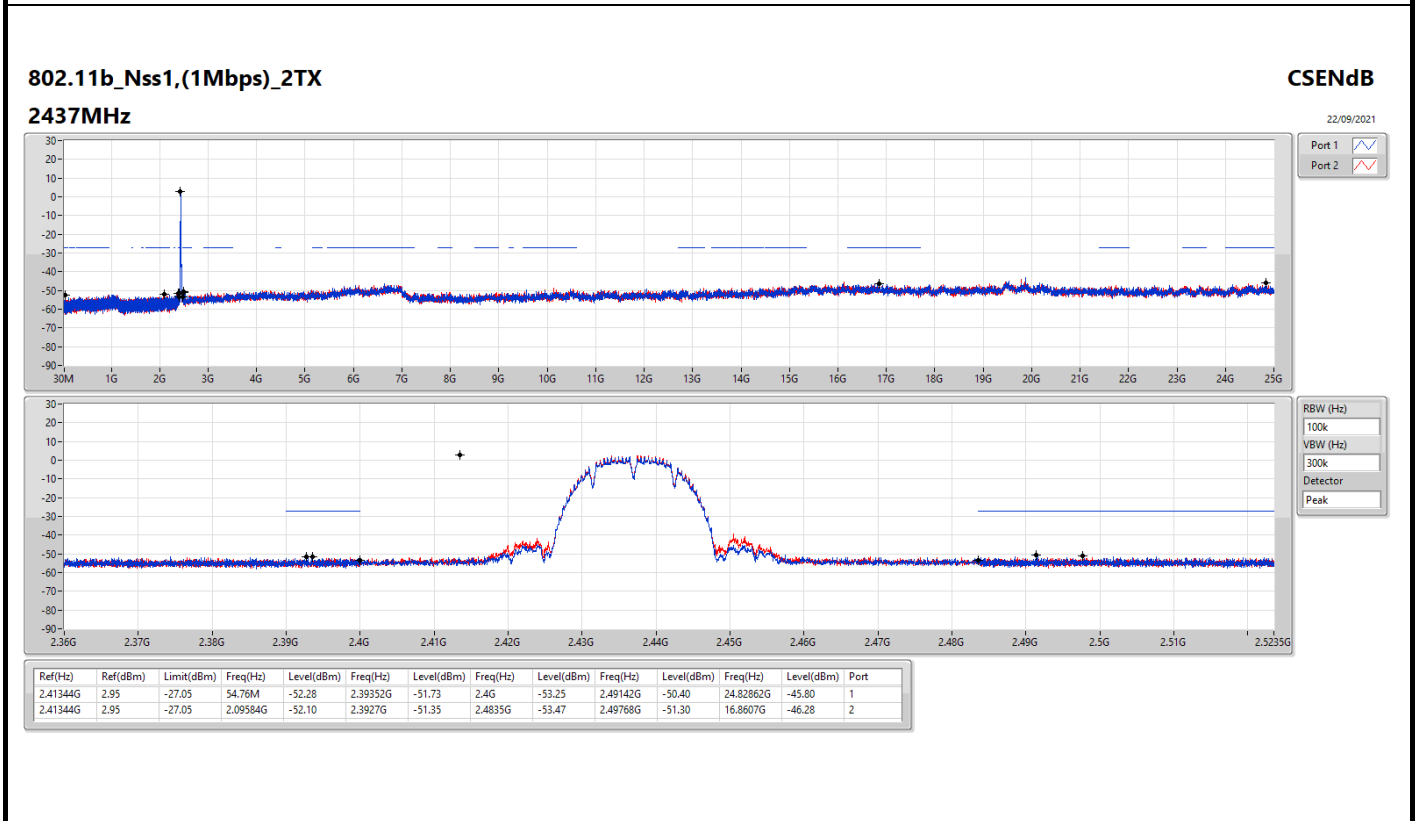
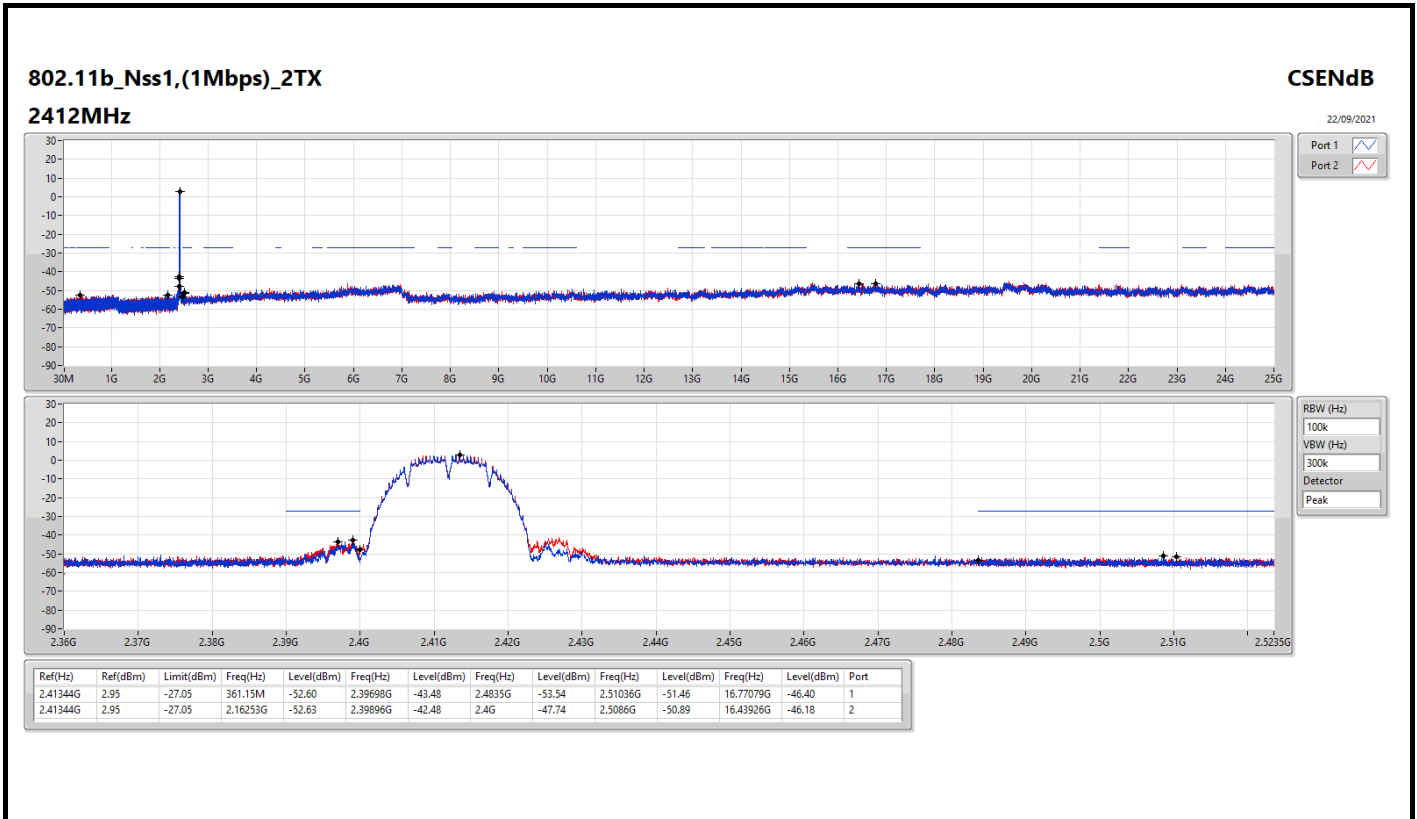
Summary

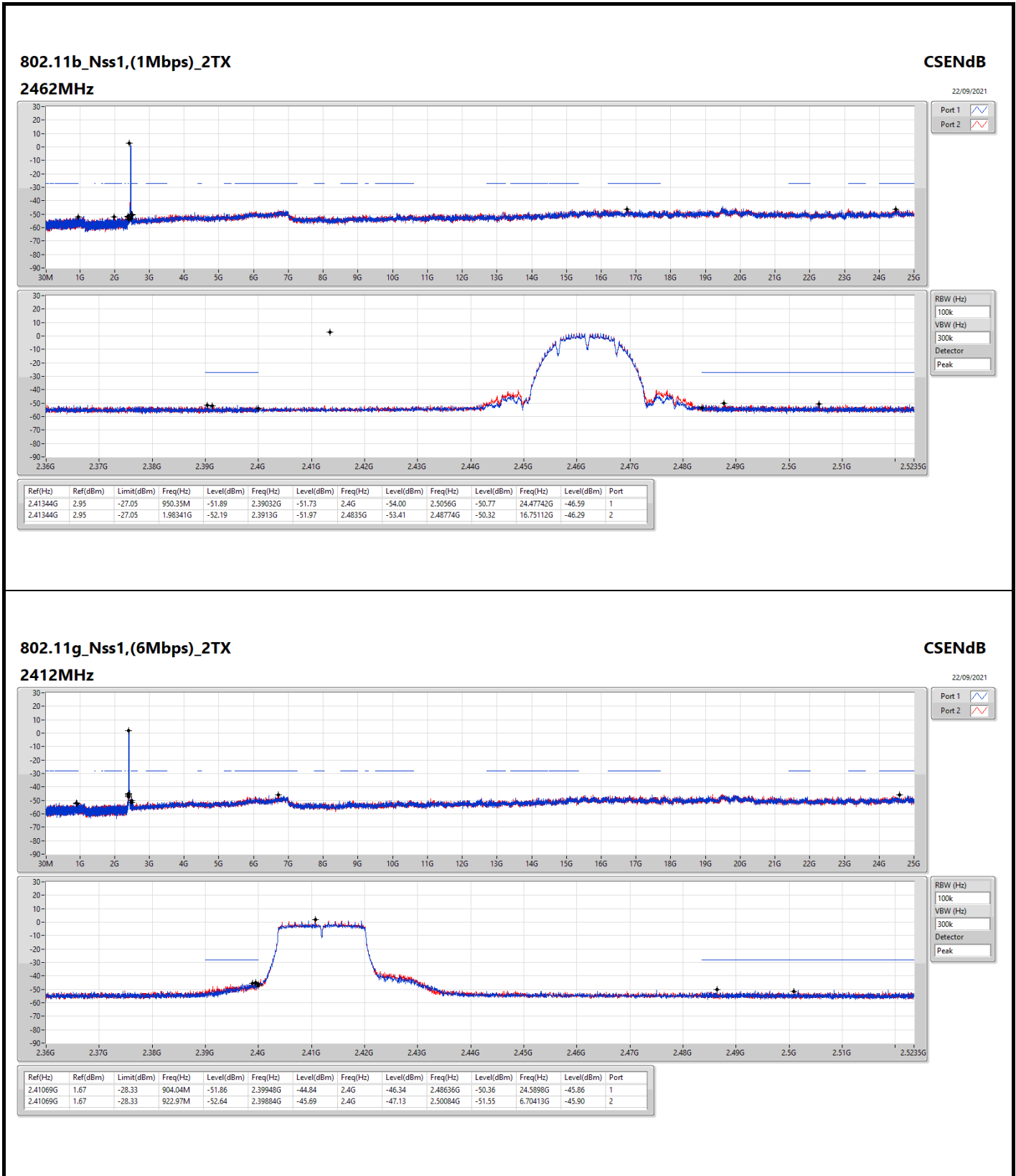
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.41344G	2.95	-27.05	2.16253G	-52.63	2.39896G	-42.48	2.4G	-47.74	2.5086G	-50.89	16.43926G	-46.18	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.41069G	1.67	-28.33	904.04M	-51.86	2.39948G	-44.84	2.4G	-46.34	2.48636G	-50.36	24.5898G	-45.86	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.4357G	1.39	-28.61	863.85M	-52.22	2.39896G	-44.10	2.4G	-44.81	2.50298G	-50.97	16.40555G	-46.76	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.42948G	-1.28	-31.28	651.16M	-52.75	2.39708G	-51.68	2.4835G	-43.34	2.48574G	-41.90	6.99751G	-45.82	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	2.41344G	2.95	-27.05	361.15M	-52.60	2.39698G	-43.48	2.4835G	-53.54	2.51036G	-51.46	16.77079G	-46.40	1
2412MHz	Pass	2.41344G	2.95	-27.05	2.16253G	-52.63	2.39896G	-42.48	2.4G	-47.74	2.5086G	-50.89	16.43926G	-46.18	2
2437MHz	Pass	2.41344G	2.95	-27.05	54.76M	-52.28	2.39352G	-51.73	2.4G	-53.25	2.49142G	-50.40	24.82862G	-45.80	1
2437MHz	Pass	2.41344G	2.95	-27.05	2.09584G	-52.10	2.3927G	-51.35	2.4835G	-53.47	2.49768G	-51.30	16.8607G	-46.28	2
2462MHz	Pass	2.41344G	2.95	-27.05	950.35M	-51.89	2.39032G	-51.73	2.4G	-54.00	2.5056G	-50.77	24.47742G	-46.59	1
2462MHz	Pass	2.41344G	2.95	-27.05	1.98341G	-52.19	2.3913G	-51.97	2.4835G	-53.41	2.48774G	-50.32	16.75112G	-46.29	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41069G	1.67	-28.33	904.04M	-51.86	2.39948G	-44.84	2.4G	-46.34	2.48636G	-50.36	24.5898G	-45.86	1
2412MHz	Pass	2.41069G	1.67	-28.33	922.97M	-52.64	2.39884G	-45.69	2.4G	-47.13	2.50084G	-51.55	6.70413G	-45.90	2
2437MHz	Pass	2.41069G	1.67	-28.33	828.9M	-52.53	2.39826G	-51.67	2.4835G	-53.54	2.50388G	-51.04	6.99632G	-46.36	1
2437MHz	Pass	2.41069G	1.67	-28.33	2.014G	-52.30	2.39702G	-51.37	2.4G	-55.01	2.50598G	-49.53	16.50107G	-45.74	2
2462MHz	Pass	2.41069G	1.67	-28.33	947.44M	-52.56	2.39528G	-51.24	2.4835G	-52.03	2.48388G	-48.93	16.7427G	-46.16	1
2462MHz	Pass	2.41069G	1.67	-28.33	950.93M	-52.50	2.39064G	-52.29	2.4835G	-52.10	2.4844G	-50.32	24.84266G	-46.45	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4357G	1.39	-28.61	863.85M	-52.22	2.39896G	-44.10	2.4G	-44.81	2.50298G	-50.97	16.40555G	-46.76	1
2412MHz	Pass	2.4357G	1.39	-28.61	906.08M	-52.57	2.39972G	-45.01	2.4G	-44.76	2.48526G	-50.62	6.85865G	-46.47	2
2437MHz	Pass	2.4357G	1.39	-28.61	951.81M	-51.87	2.39798G	-50.97	2.4G	-53.58	2.48944G	-50.45	16.7736G	-46.58	1
2437MHz	Pass	2.4357G	1.39	-28.61	2.16253G	-52.64	2.39364G	-51.73	2.4835G	-53.75	2.4937G	-50.74	6.92608G	-46.39	2
2462MHz	Pass	2.4357G	1.39	-28.61	944.53M	-51.93	2.39104G	-52.15	2.4835G	-48.95	2.48448G	-46.11	16.84384G	-46.90	1
2462MHz	Pass	2.4357G	1.39	-28.61	2.12467G	-53.01	2.39688G	-51.46	2.4835G	-48.49	2.48352G	-46.00	16.76798G	-46.20	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42948G	-1.28	-31.28	901.06M	-51.55	2.39568G	-48.31	2.4G	-51.72	2.48962G	-51.66	24.46433G	-46.11	1
2422MHz	Pass	2.42948G	-1.28	-31.28	393.54M	-52.16	2.39696G	-45.49	2.4G	-47.04	2.49074G	-50.65	6.75352G	-45.92	2
2437MHz	Pass	2.42948G	-1.28	-31.28	920.81M	-51.30	2.39452G	-50.75	2.4835G	-48.22	2.48382G	-47.37	6.82644G	-45.56	1
2437MHz	Pass	2.42948G	-1.28	-31.28	811.46M	-51.62	2.39968G	-51.51	2.4835G	-50.74	2.48378G	-49.65	24.74198G	-45.43	2
2452MHz	Pass	2.42948G	-1.28	-31.28	651.16M	-52.75	2.39708G	-51.68	2.4835G	-43.34	2.48574G	-41.90	6.99751G	-45.82	1
2452MHz	Pass	2.42948G	-1.28	-31.28	951.73M	-52.74	2.3944G	-52.47	2.4835G	-44.19	2.48442G	-43.75	24.47835G	-45.81	2



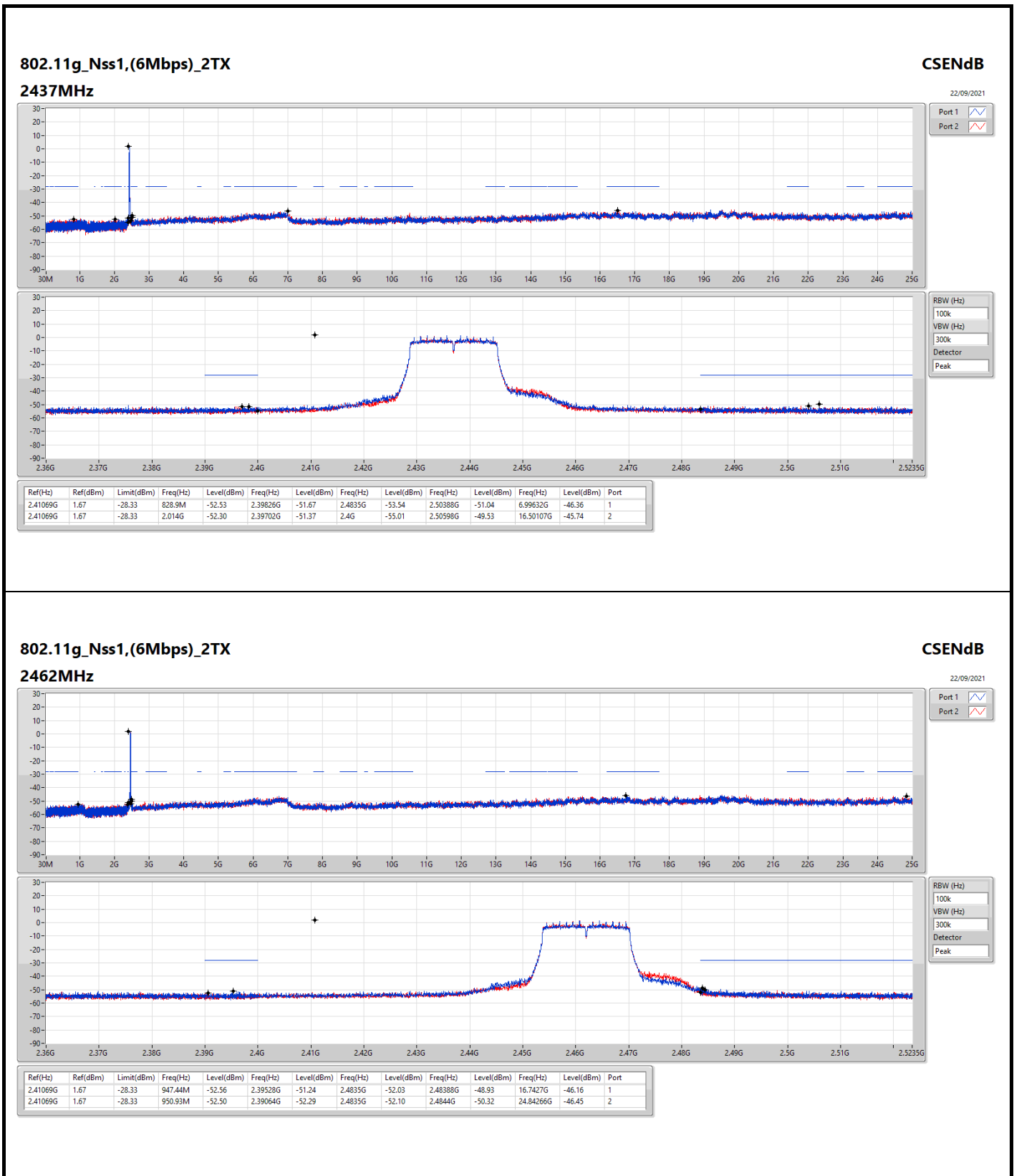


802.11g_Nss1,(6Mbps)_2TX

2412MHz

CSENdB

22/09/2021

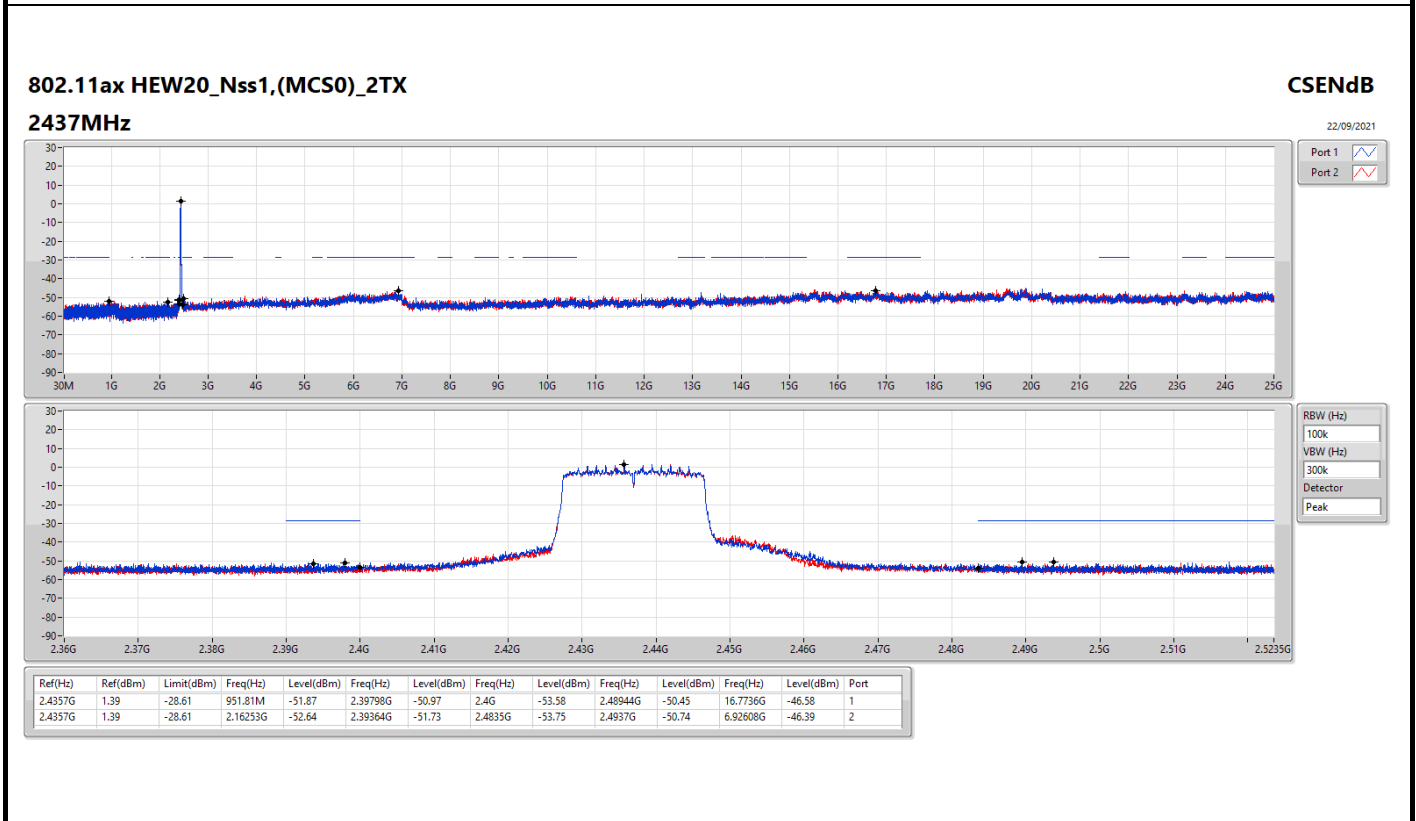
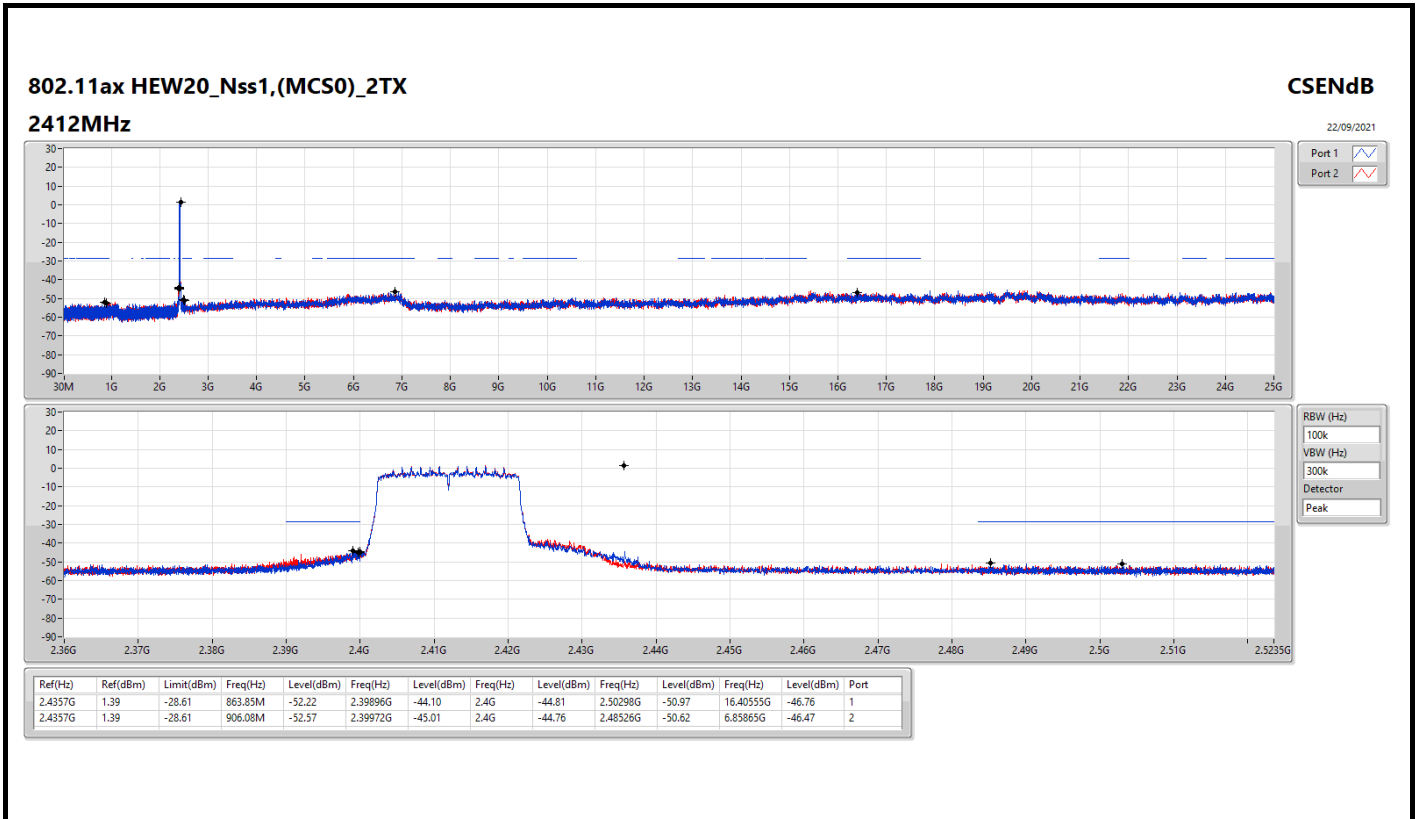


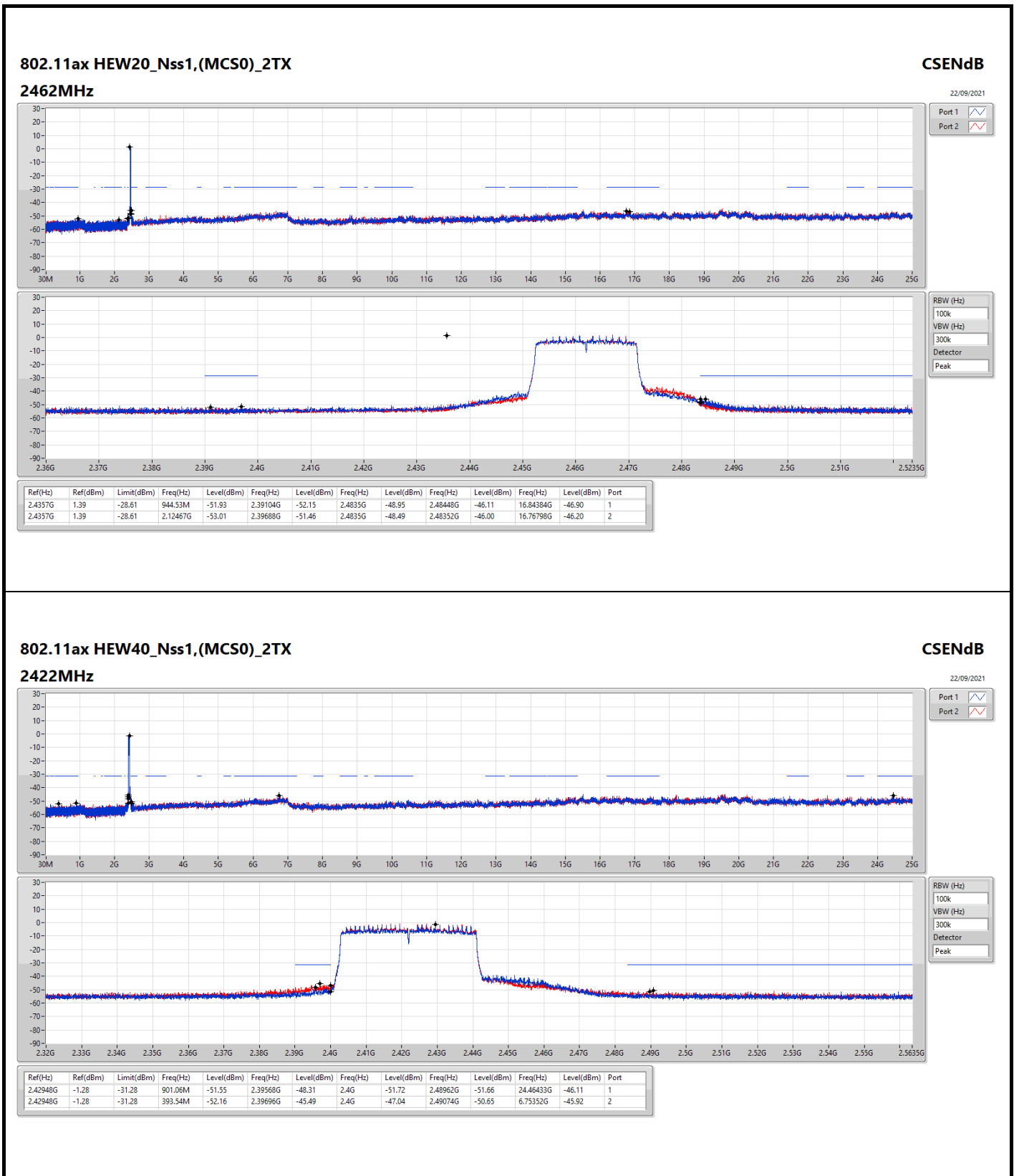
802.11g_Nss1,(6Mbps)_2TX

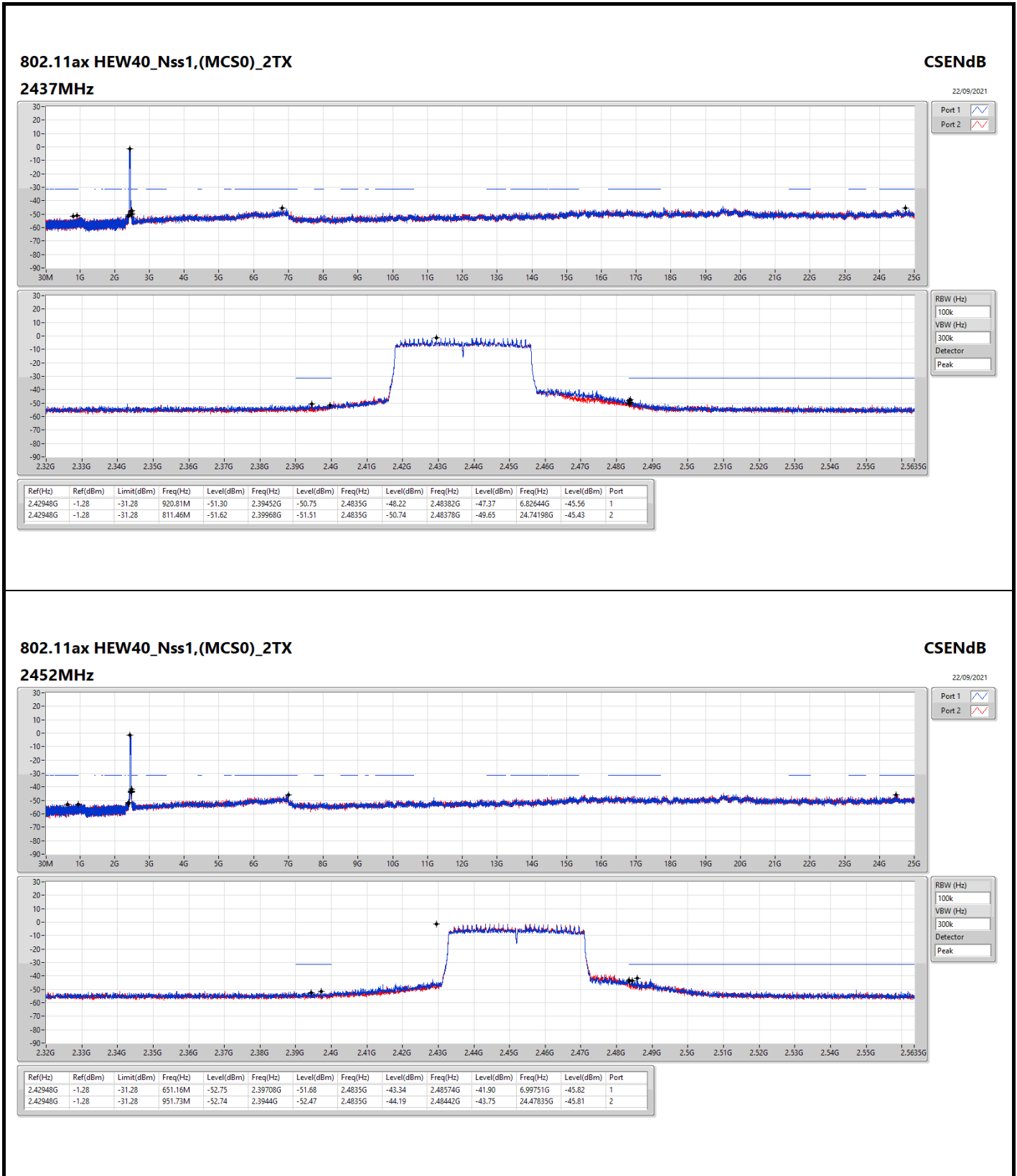
2462MHz

CSEndB

22/09/2021







802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz

CSENdB

22/09/2021

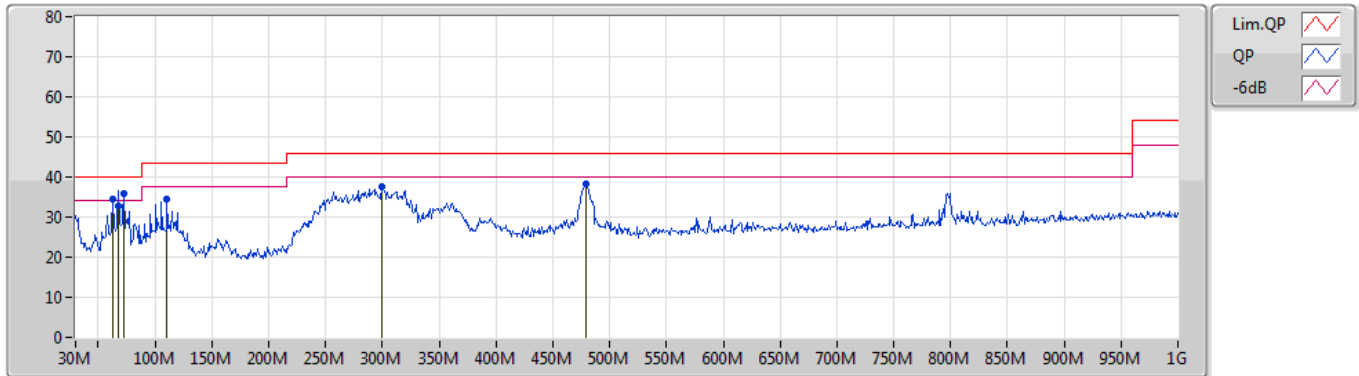


Summary

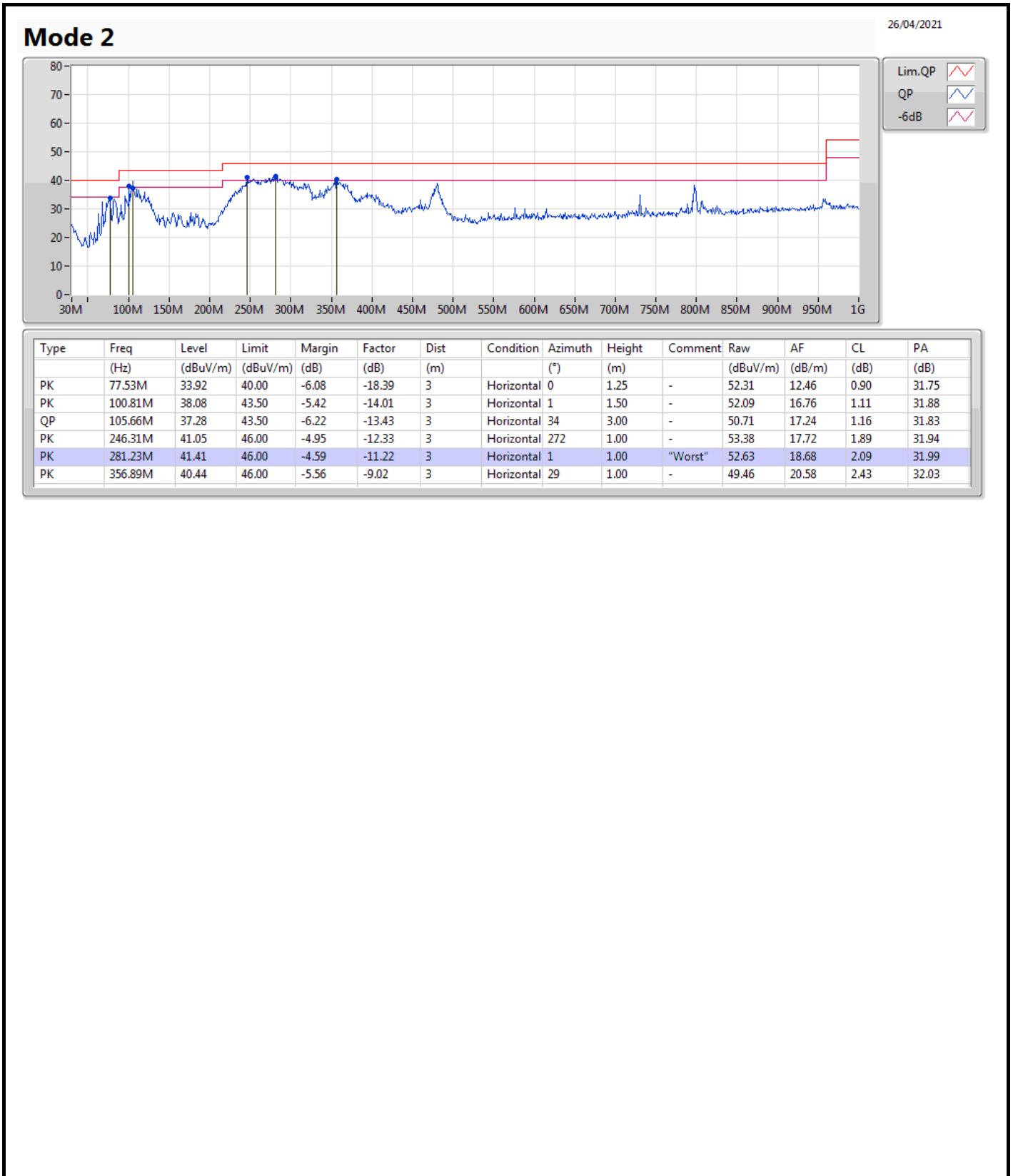
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	72.68M	35.76	40.00	-4.24	Vertical

Mode 2

26/04/2021



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	62.98M	34.54	40.00	-5.46	-18.89	3	Vertical	190	2.00	-	53.43	12.13	0.80	31.82
QP	67.83M	32.83	40.00	-7.17	-18.95	3	Vertical	182	2.00	-	51.78	12.05	0.80	31.80
PK	72.68M	35.76	40.00	-4.24	-18.70	3	Vertical	116	1.50	"Worst"	54.46	12.21	0.85	31.76
PK	110.51M	34.49	43.50	-9.01	-12.94	3	Vertical	54	1.00	-	47.43	17.63	1.21	31.78
PK	299.66M	37.72	46.00	-8.28	-10.87	3	Vertical	226	1.50	-	48.59	18.95	2.20	32.02
PK	479.11M	38.18	46.00	-7.82	-6.39	3	Vertical	257	2.00	-	44.57	23.10	2.82	32.31



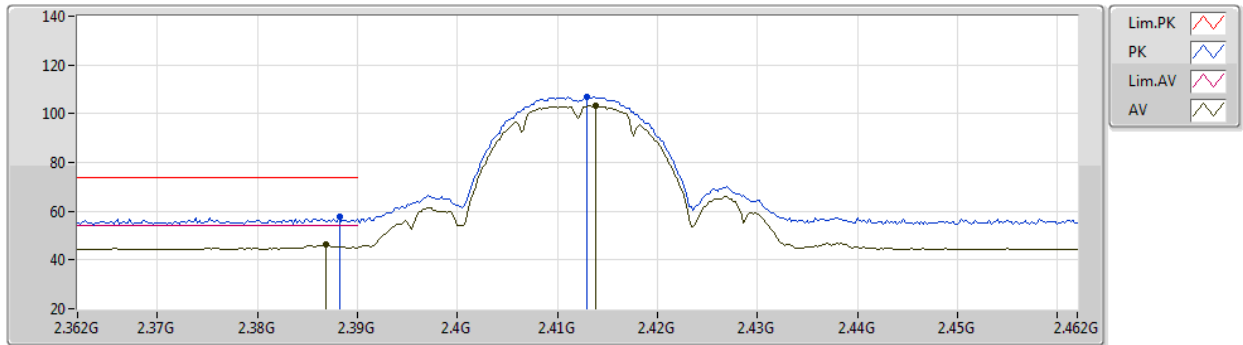


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.4836G	52.99	54.00	-1.01	3	Horizontal	2	1.12	-

802.11b_Nss1,(1Mbps)_2TX
2412MHz_TX

13/04/2021

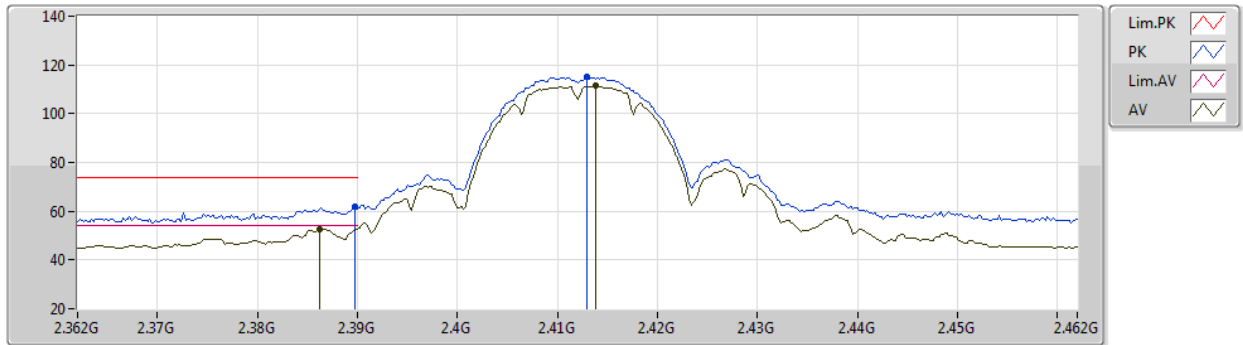


EUT X_2TX
Setting 21.25
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	57.55	74.00	-16.45	25.74	3	Vertical	55	2.92	-	28.32	3.49	-
AV	2.3868G	46.25	54.00	-7.75	14.43	3	Vertical	55	2.92	-	28.33	3.49	-
PK	2.413G	106.84	Inf	-Inf	75.00	3	Vertical	55	2.92	-	28.33	3.51	-
AV	2.4138G	103.15	Inf	-Inf	71.31	3	Vertical	55	2.92	-	28.33	3.51	-

802.11b_Nss1,(1Mbps)_2TX
2412MHz_TX

13/04/2021



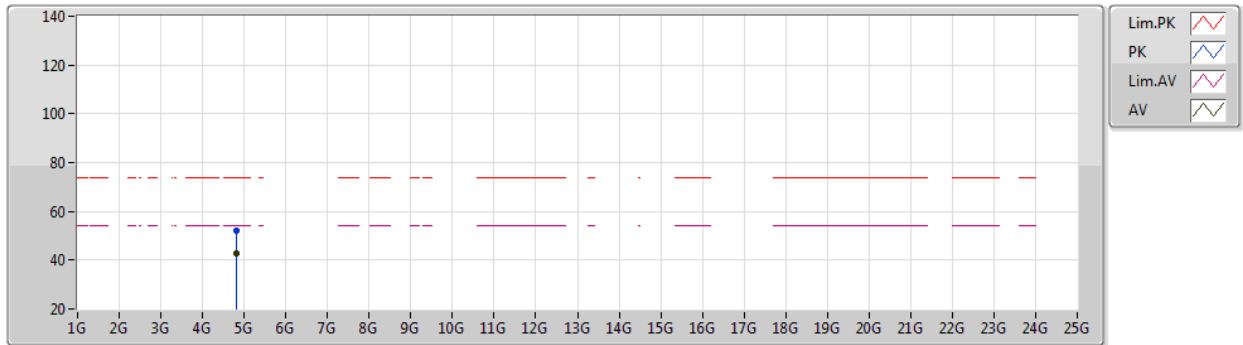
EUT X_2TX
Setting 21.25
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	61.69	74.00	-12.31	29.88	3	Horizontal	3	1.00	-	28.32	3.49	-
AV	2.3862G	52.79	54.00	-1.21	20.97	3	Horizontal	3	1.00	-	28.33	3.49	-
PK	2.413G	114.94	Inf	-Inf	83.10	3	Horizontal	3	1.00	-	28.33	3.51	-
AV	2.4138G	111.30	Inf	-Inf	79.46	3	Horizontal	3	1.00	-	28.33	3.51	-

802.11b_Nss1,(1Mbps)_2TX

13/04/2021

2412MHz_TX



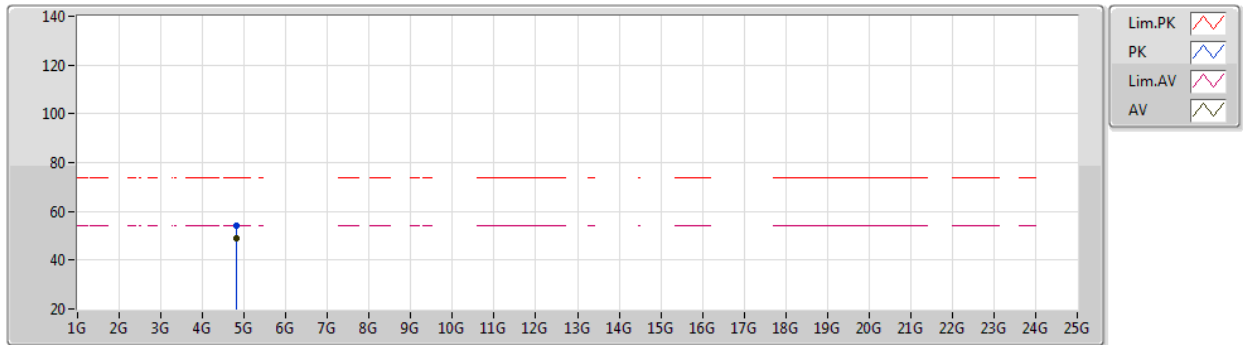
EUT X_2TX
Setting 21.25
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82394G	52.09	74.00	-21.91	47.75	3	Vertical	140	2.91	-	33.40	6.24	35.30
AV	4.82397G	42.92	54.00	-11.08	38.58	3	Vertical	140	2.91	-	33.40	6.24	35.30

802.11b_Nss1,(1Mbps)_2TX

13/04/2021

2412MHz_TX



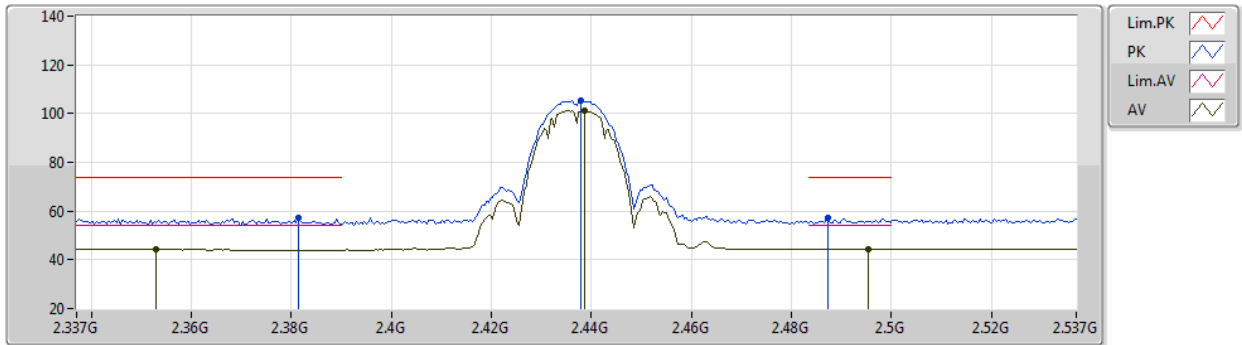
EUT X_2TX
Setting 21.25
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82398G	54.22	74.00	-19.78	49.88	3	Horizontal	327	2.63	-	33.40	6.24	35.30
AV	4.82395G	49.01	54.00	-4.99	44.67	3	Horizontal	327	2.63	-	33.40	6.24	35.30

802.11b_Nss1,(1Mbps)_2TX

09/04/2021

2437MHz_TX

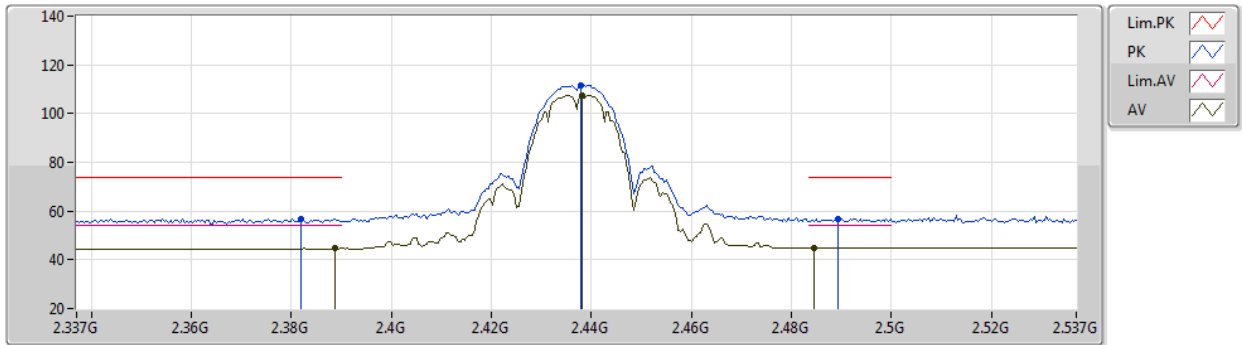


EUT X_2TX
Setting 20.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3814G	57.16	74.00	-16.84	25.34	3	Vertical	275	2.93	-	28.34	3.48	-
AV	2.353G	44.22	54.00	-9.78	12.38	3	Vertical	275	2.93	-	28.39	3.45	-
PK	2.4378G	105.24	Inf	-Inf	73.32	3	Vertical	275	2.93	-	28.38	3.54	-
AV	2.4386G	101.10	Inf	-Inf	69.18	3	Vertical	275	2.93	-	28.38	3.54	-
PK	2.4874G	57.42	74.00	-16.58	25.21	3	Vertical	275	2.93	-	28.62	3.59	-
AV	2.4954G	44.46	54.00	-9.54	12.19	3	Vertical	275	2.93	-	28.67	3.60	-

802.11b_Nss1,(1Mbps)_2TX
2437MHz_TX

09/04/2021



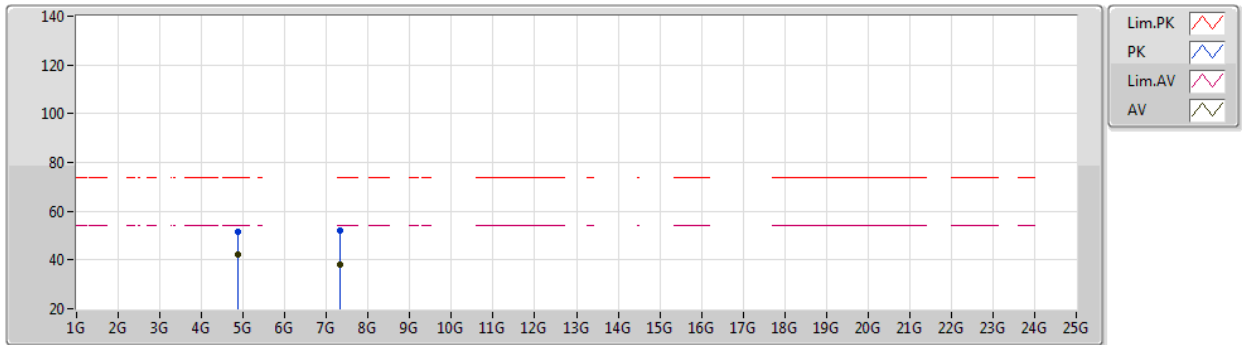
EUT X_2TX
Setting 20.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3818G	56.88	74.00	-17.12	25.06	3	Horizontal	0	1.16	-	28.34	3.48	-
AV	2.3886G	44.61	54.00	-9.39	12.80	3	Horizontal	0	1.16	-	28.32	3.49	-
PK	2.4378G	111.55	Inf	-Inf	79.63	3	Horizontal	0	1.16	-	28.38	3.54	-
AV	2.4382G	107.40	Inf	-Inf	75.48	3	Horizontal	0	1.16	-	28.38	3.54	-
PK	2.4894G	56.98	74.00	-17.02	24.75	3	Horizontal	0	1.16	-	28.64	3.59	-
AV	2.4846G	44.82	54.00	-9.18	12.63	3	Horizontal	0	1.16	-	28.61	3.58	-

802.11b_Nss1,(1Mbps)_2TX

09/04/2021

2437MHz_TX

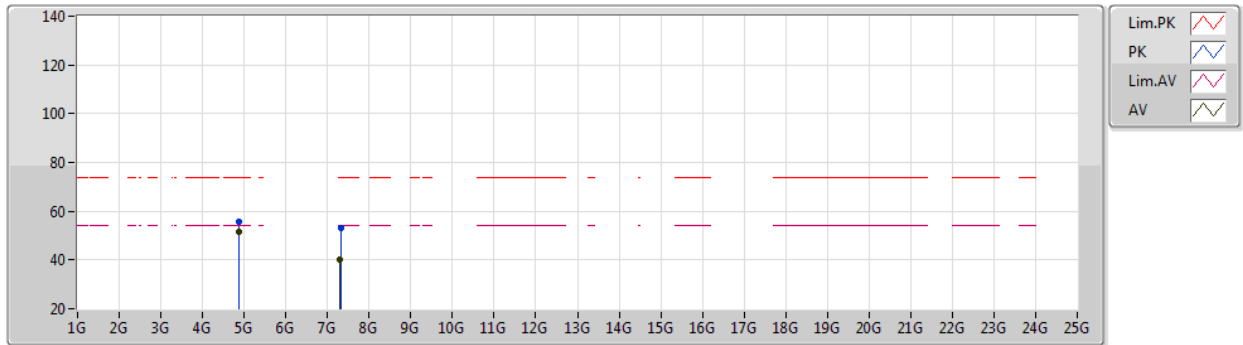


EUT_X_2TX
Setting 20.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8741G	51.33	74.00	-22.67	46.88	3	Vertical	162	2.46	-	33.50	6.31	35.36
AV	4.87398G	42.42	54.00	-11.58	37.97	3	Vertical	162	2.46	-	33.50	6.31	35.36
PK	7.32318G	51.90	74.00	-22.10	42.42	3	Vertical	311	1.34	-	37.00	7.88	35.40
AV	7.32504G	38.30	54.00	-15.70	28.81	3	Vertical	311	1.34	-	37.00	7.89	35.40

802.11b_Nss1,(1Mbps)_2TX
2437MHz_TX

09/04/2021



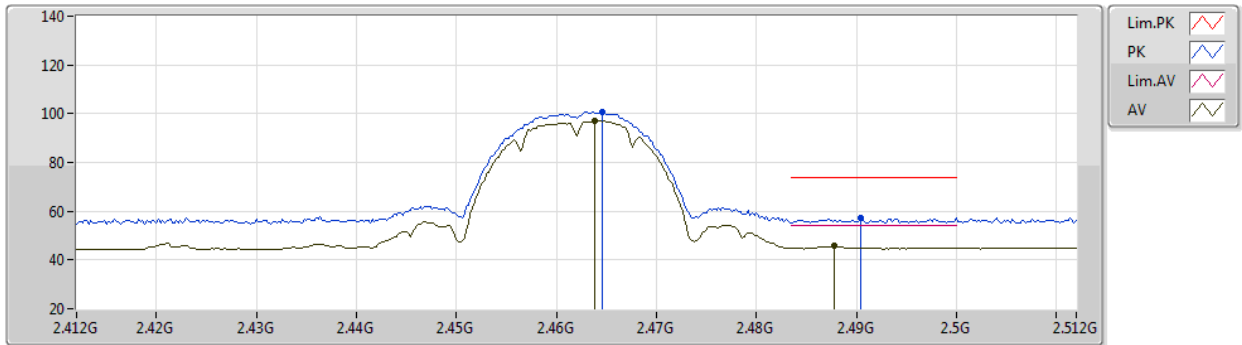
EUT X_2TX
Setting 20.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87394G	55.69	74.00	-18.31	51.24	3	Horizontal	28	1.03	-	33.50	6.31	35.36
AV	4.87396G	51.38	54.00	-2.62	46.93	3	Horizontal	28	1.03	-	33.50	6.31	35.36
PK	7.31028G	52.95	74.00	-21.05	43.47	3	Horizontal	18	2.69	-	37.00	7.87	35.39
AV	7.30896G	40.01	54.00	-13.99	30.54	3	Horizontal	18	2.69	-	37.00	7.86	35.39

802.11b_Nss1,(1Mbps)_2TX

13/04/2021

2462MHz_TX

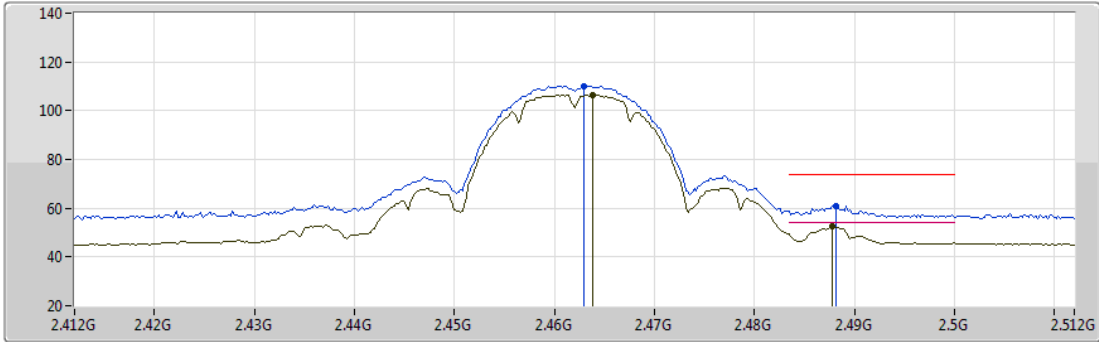






EUT X_2TX
Setting 18.5
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4646G	100.70	Inf	-Inf	68.65	3	Vertical	84	2.91	-	28.49	3.56	-
AV	2.4638G	96.99	Inf	-Inf	64.95	3	Vertical	84	2.91	-	28.48	3.56	-
PK	2.4904G	57.20	74.00	-16.80	24.97	3	Vertical	84	2.91	-	28.64	3.59	-
AV	2.4878G	45.69	54.00	-8.31	13.47	3	Vertical	84	2.91	-	28.63	3.59	-

802.11b_Nss1,(1Mbps)_2TX
2462MHz_TX

13/04/2021



Lim.PK 
 PK 
 Lim.AV 
 AV 

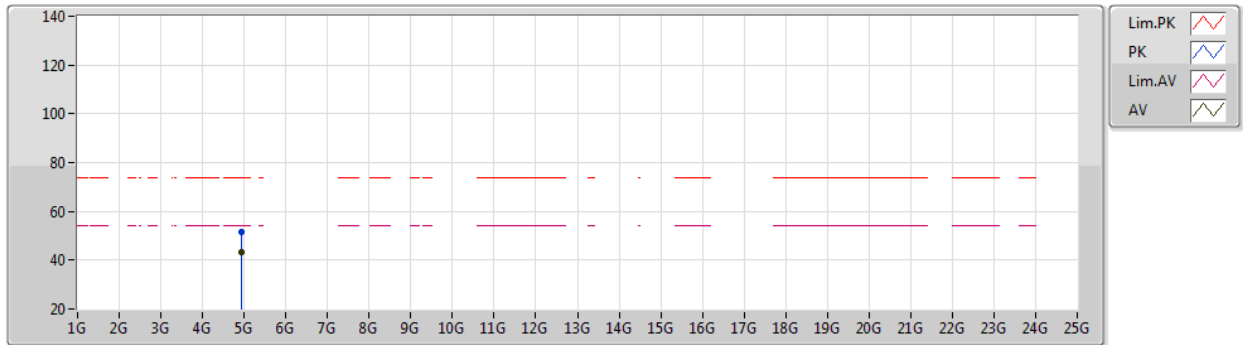
EUT X_2TX
Setting 18.5
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	110.13	Inf	-Inf	78.09	3	Horizontal	360	1.17	-	28.48	3.56	-
AV	2.4638G	106.47	Inf	-Inf	74.43	3	Horizontal	360	1.17	-	28.48	3.56	-
PK	2.4882G	61.03	74.00	-12.97	28.81	3	Horizontal	360	1.17	-	28.63	3.59	-
AV	2.4878G	52.79	54.00	-1.21	20.57	3	Horizontal	360	1.17	-	28.63	3.59	-

802.11b_Nss1,(1Mbps)_2TX

13/04/2021

2462MHz_TX



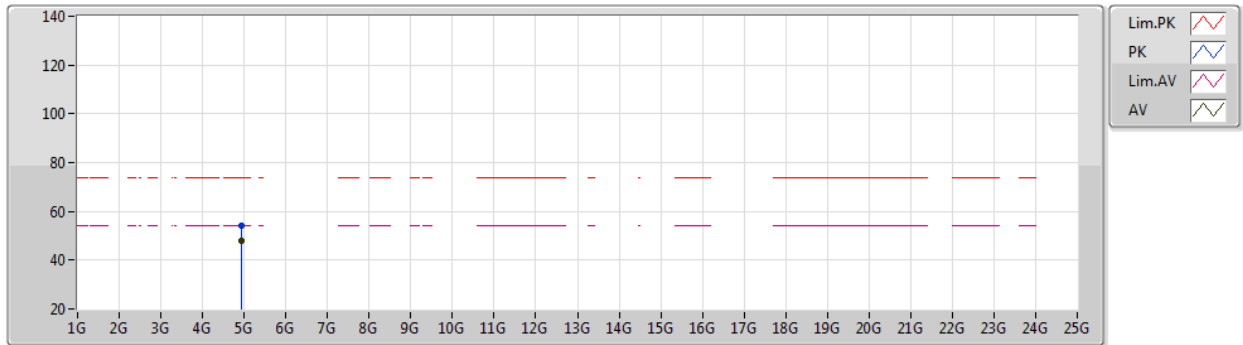
EUT X_2TX
Setting 18.5
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.924G	51.35	74.00	-22.65	46.72	3	Vertical	70	2.99	-	33.65	6.39	35.41
AV	4.92398G	43.19	54.00	-10.81	38.56	3	Vertical	70	2.99	-	33.65	6.39	35.41

802.11b_Nss1,(1Mbps)_2TX

13/04/2021

2462MHz_TX

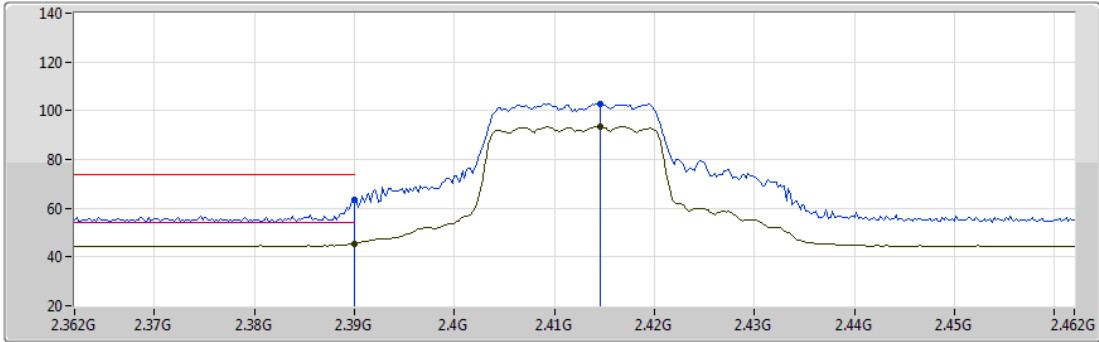


EUT X_2TX
Setting 18.5
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92404G	54.07	74.00	-19.93	49.44	3	Horizontal	333	1.00	-	33.65	6.39	35.41
AV	4.92397G	48.00	54.00	-6.00	43.37	3	Horizontal	333	1.00	-	33.65	6.39	35.41

802.11g_Nss1,(6Mbps)_2TX
2412MHz_TX

13/04/2021



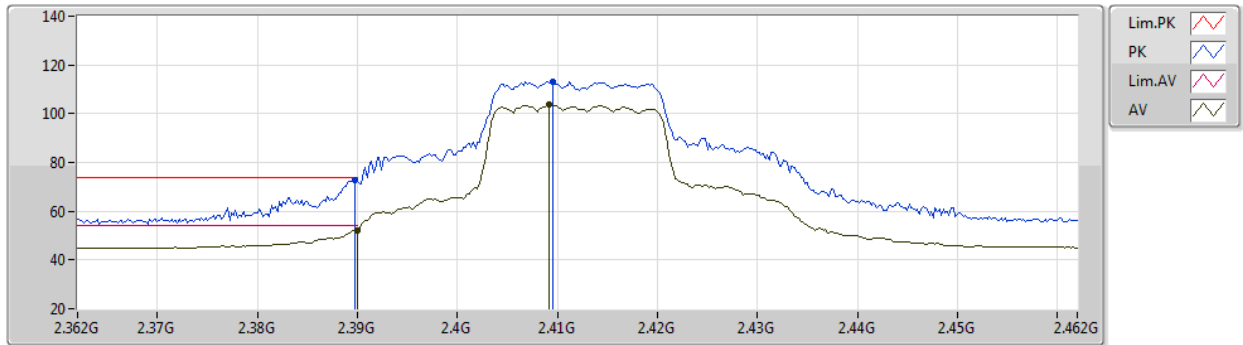
EUT X_2TX
Setting 18
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	63.36	74.00	-10.64	31.55	3	Vertical	93	2.89	-	28.32	3.49	-
AV	2.39G	45.41	54.00	-8.59	13.60	3	Vertical	93	2.89	-	28.32	3.49	-
PK	2.4146G	102.93	Inf	-Inf	71.09	3	Vertical	93	2.89	-	28.33	3.51	-
AV	2.4146G	93.60	Inf	-Inf	61.76	3	Vertical	93	2.89	-	28.33	3.51	-

802.11g_Nss1,(6Mbps)_2TX

13/04/2021

2412MHz_TX

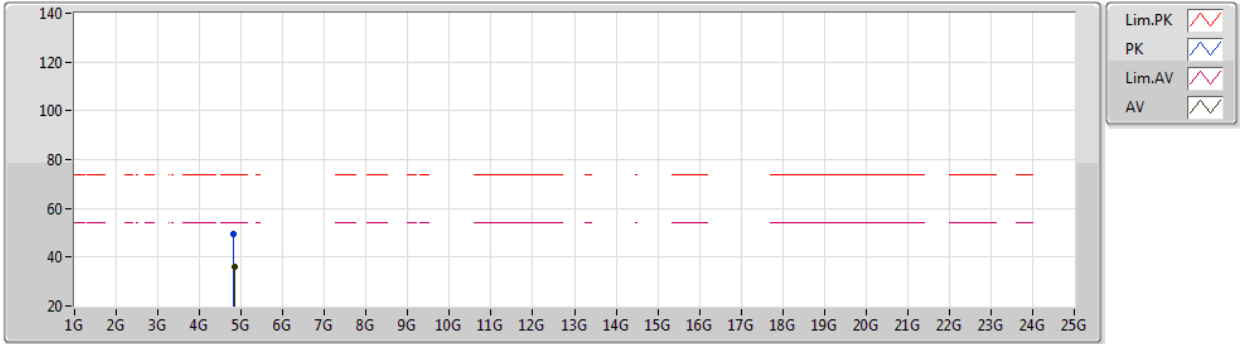


EUT X_2TX
Setting 18
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	72.79	74.00	-1.21	40.98	3	Horizontal	6	1.41	-	28.32	3.49	-
AV	2.39G	52.29	54.00	-1.71	20.48	3	Horizontal	6	1.41	-	28.32	3.49	-
PK	2.4096G	113.30	Inf	-Inf	81.47	3	Horizontal	6	1.41	-	28.32	3.51	-
AV	2.4092G	103.55	Inf	-Inf	71.72	3	Horizontal	6	1.41	-	28.32	3.51	-

802.11g_Nss1,(6Mbps)_2TX
2412MHz_TX

13/04/2021



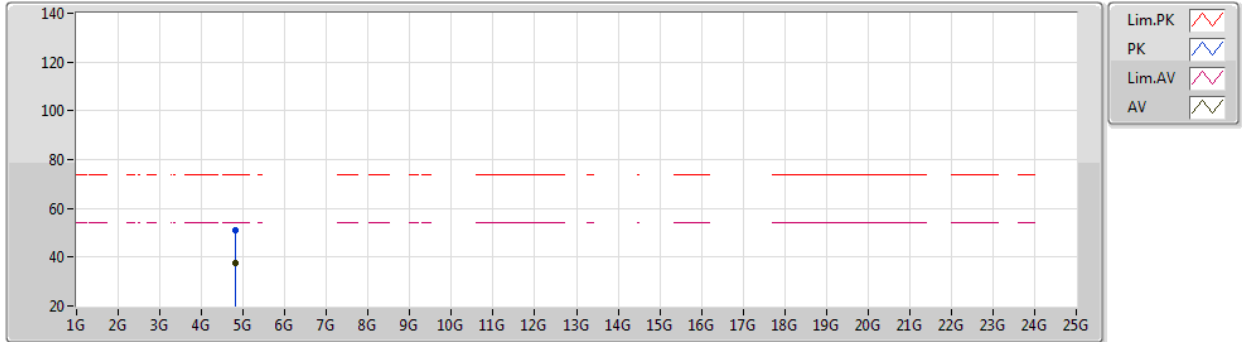
EUT X_2TX
Setting 18
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8284G	49.47	74.00	-24.53	45.14	3	Vertical	240	1.80	-	33.40	6.24	35.31
AV	4.8288G	36.16	54.00	-17.84	31.83	3	Vertical	240	1.80	-	33.40	6.24	35.31

802.11g_Nss1,(6Mbps)_2TX

13/04/2021

2412MHz_TX

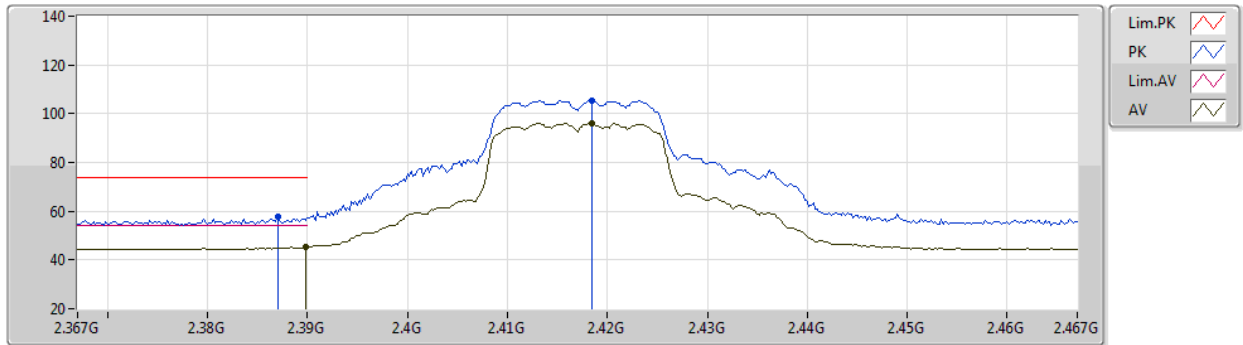


EUT X_2TX
Setting 18
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82384G	51.16	74.00	-22.84	46.82	3	Horizontal	348	2.62	-	33.40	6.24	35.30
AV	4.82468G	37.38	54.00	-16.62	33.04	3	Horizontal	348	2.62	-	33.40	6.24	35.30

802.11g_Nss1,(6Mbps)_2TX
2417MHz_TX

14/04/2021



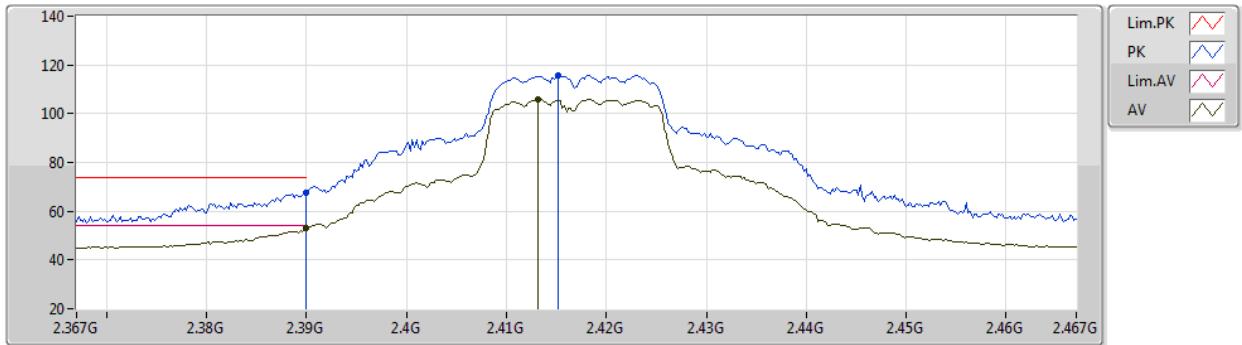
EUT X_2TX
Setting 20.25
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	57.69	74.00	-16.31	25.87	3	Vertical	91	2.90	-	28.33	3.49	-
AV	2.3898G	45.33	54.00	-8.67	13.52	3	Vertical	91	2.90	-	28.32	3.49	-
PK	2.4184G	105.35	Inf	-Inf	73.49	3	Vertical	91	2.90	-	28.34	3.52	-
AV	2.4184G	95.94	Inf	-Inf	64.08	3	Vertical	91	2.90	-	28.34	3.52	-

802.11g_Nss1,(6Mbps)_2TX

14/04/2021

2417MHz_TX

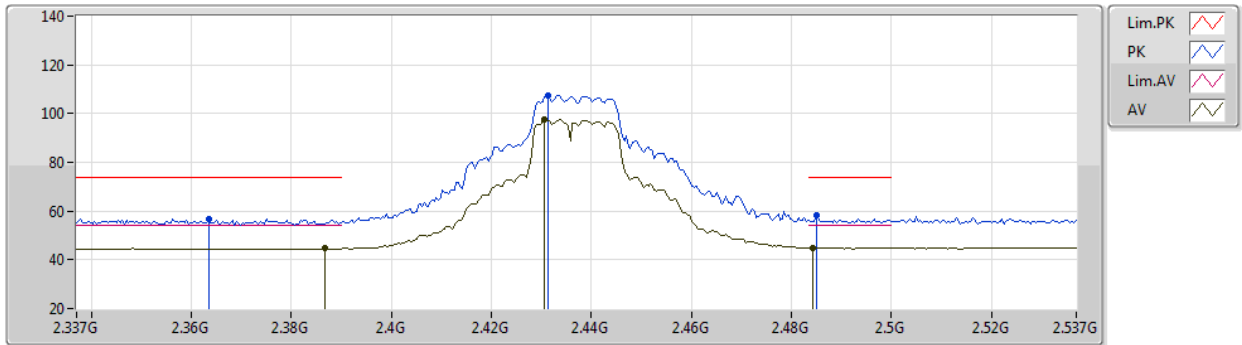


EUT X_2TX
Setting 20.25
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	67.43	74.00	-6.57	35.62	3	Horizontal	360	1.00	-	28.32	3.49	-
AV	2.39G	52.97	54.00	-1.03	21.16	3	Horizontal	360	1.00	-	28.32	3.49	-
PK	2.4152G	115.60	Inf	-Inf	83.75	3	Horizontal	360	1.00	-	28.33	3.52	-
AV	2.4132G	105.83	Inf	-Inf	73.99	3	Horizontal	360	1.00	-	28.33	3.51	-

802.11g_Nss1,(6Mbps)_2TX
2437MHz_TX

14/04/2021



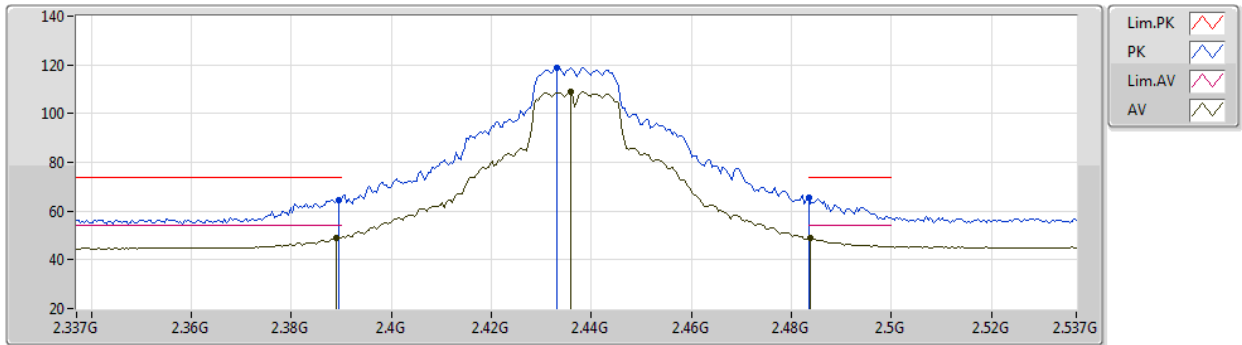
EUT X_2TX
Setting 22.75
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3634G	56.66	74.00	-17.34	24.83	3	Vertical	107	2.92	-	28.37	3.46	-
AV	2.3866G	44.62	54.00	-9.38	12.80	3	Vertical	107	2.92	-	28.33	3.49	-
PK	2.4314G	107.59	Inf	-Inf	75.70	3	Vertical	107	2.92	-	28.36	3.53	-
AV	2.4306G	97.45	Inf	-Inf	65.56	3	Vertical	107	2.92	-	28.36	3.53	-
PK	2.485G	58.51	74.00	-15.49	26.31	3	Vertical	107	2.92	-	28.61	3.59	-
AV	2.4842G	45.08	54.00	-8.92	12.89	3	Vertical	107	2.92	-	28.61	3.58	-

802.11g_Nss1,(6Mbps)_2TX

14/04/2021

2437MHz_TX

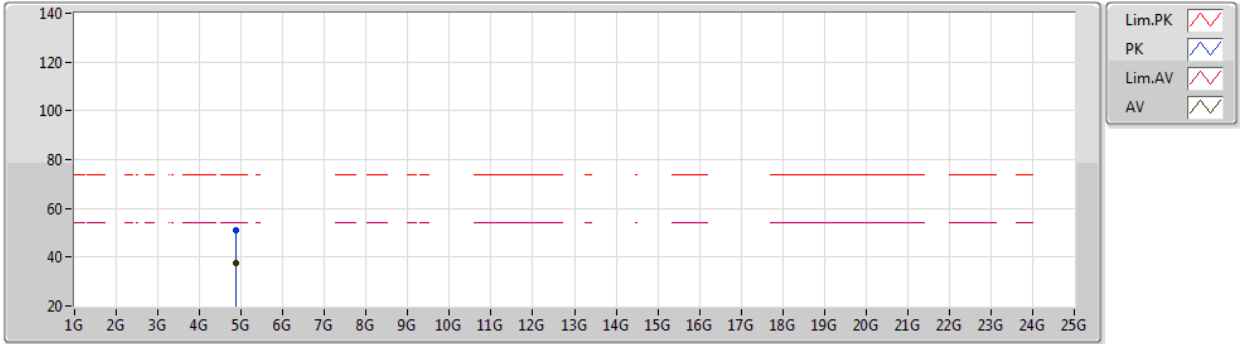


EUT X_2TX
Setting 22.75
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	64.28	74.00	-9.72	32.47	3	Horizontal	4	1.21	-	28.32	3.49	-
AV	2.389G	49.06	54.00	-4.94	17.25	3	Horizontal	4	1.21	-	28.32	3.49	-
PK	2.433G	118.90	Inf	-Inf	87.00	3	Horizontal	4	1.21	-	28.37	3.53	-
AV	2.4358G	109.00	Inf	-Inf	77.09	3	Horizontal	4	1.21	-	28.37	3.54	-
PK	2.4835G	65.32	74.00	-8.68	33.14	3	Horizontal	4	1.21	-	28.60	3.58	-
AV	2.4838G	48.80	54.00	-5.20	16.62	3	Horizontal	4	1.21	-	28.60	3.58	-

802.11g_Nss1,(6Mbps)_2TX
2437MHz_TX

14/04/2021

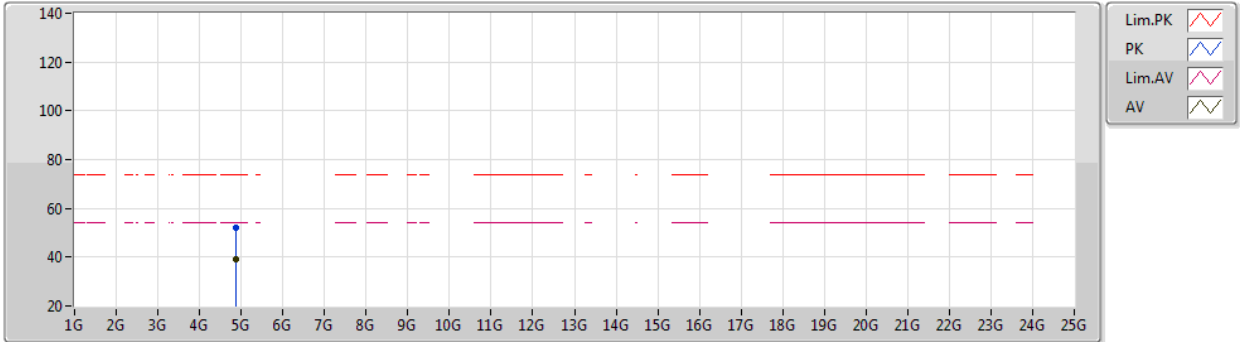


EUT X_2TX
Setting 22.75
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87904G	50.93	74.00	-23.07	46.45	3	Vertical	69	2.92	-	33.52	6.32	35.36
AV	4.87896G	37.66	54.00	-16.34	33.18	3	Vertical	69	2.92	-	33.52	6.32	35.36

802.11g_Nss1,(6Mbps)_2TX
2437MHz_TX

14/04/2021

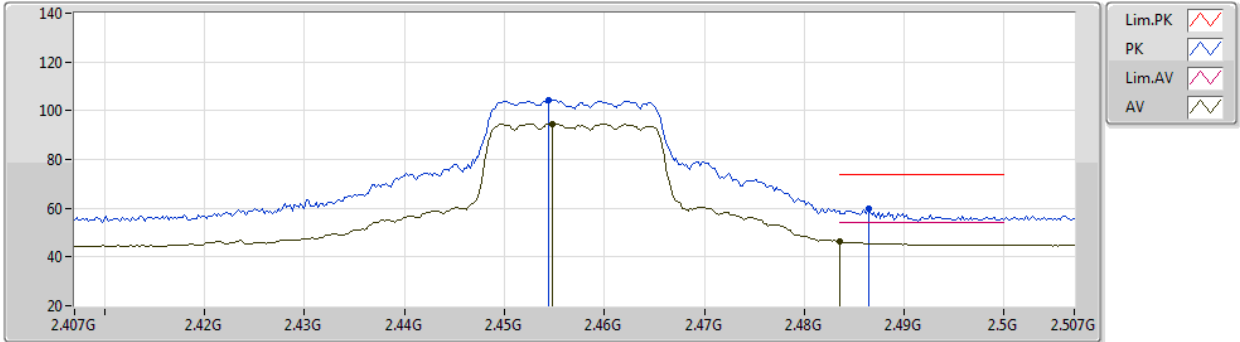


EUT X_2TX
Setting 22.75
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8661G	52.26	74.00	-21.74	47.85	3	Horizontal	348	2.68	-	33.46	6.30	35.35
AV	4.877G	39.31	54.00	-14.69	34.84	3	Horizontal	348	2.68	-	33.51	6.32	35.36

802.11g_Nss1,(6Mbps)_2TX
2457MHz_TX

14/04/2021



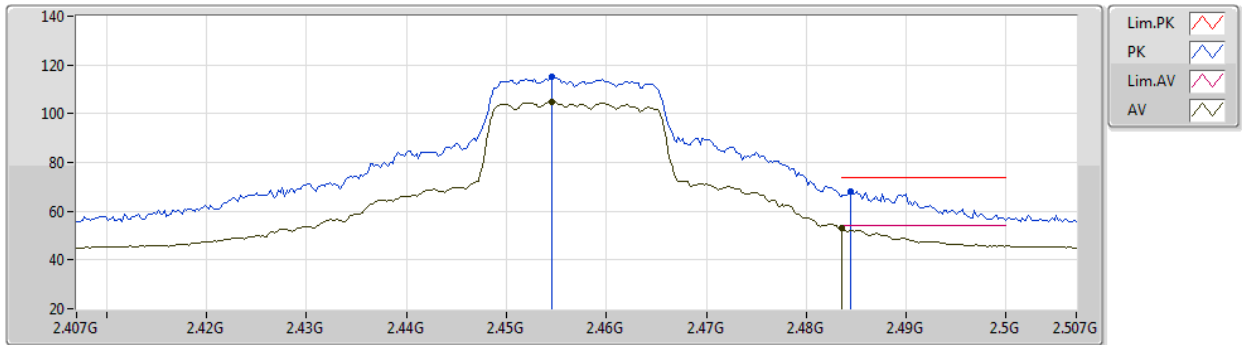
EUT X_2TX
Setting 19
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4544G	104.35	Inf	-Inf	72.37	3	Vertical	59	2.89	-	28.43	3.55	-
AV	2.4548G	94.73	Inf	-Inf	62.75	3	Vertical	59	2.89	-	28.43	3.55	-
PK	2.4864G	60.02	74.00	-13.98	27.81	3	Vertical	59	2.89	-	28.62	3.59	-
AV	2.4835G	46.21	54.00	-7.79	14.03	3	Vertical	59	2.89	-	28.60	3.58	-

802.11g_Nss1,(6Mbps)_2TX

14/04/2021

2457MHz_TX



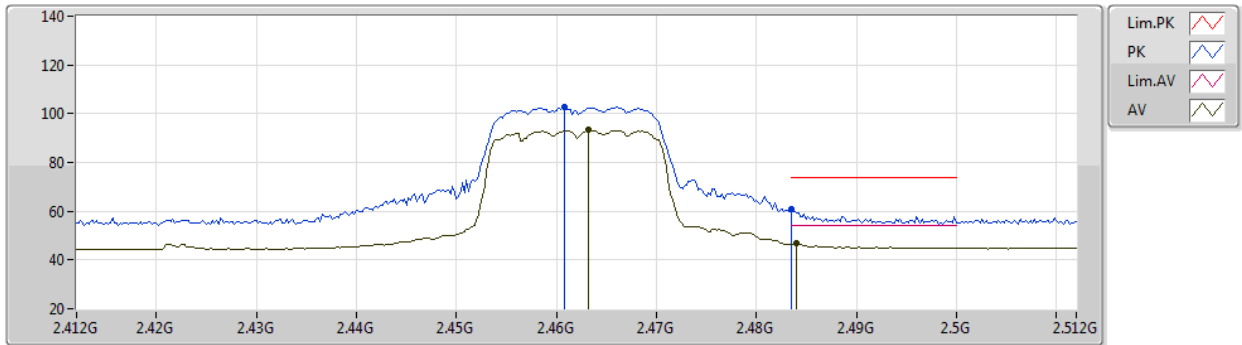
EUT X_2TX
Setting 19
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4546G	115.15	Inf	-Inf	83.17	3	Horizontal	0	1.32	-	28.43	3.55	-
AV	2.4546G	104.87	Inf	-Inf	72.89	3	Horizontal	0	1.32	-	28.43	3.55	-
PK	2.4844G	68.15	74.00	-5.85	35.96	3	Horizontal	0	1.32	-	28.61	3.58	-
AV	2.4835G	52.94	54.00	-1.06	20.76	3	Horizontal	0	1.32	-	28.60	3.58	-

802.11g_Nss1,(6Mbps)_2TX

14/04/2021

2462MHz_TX



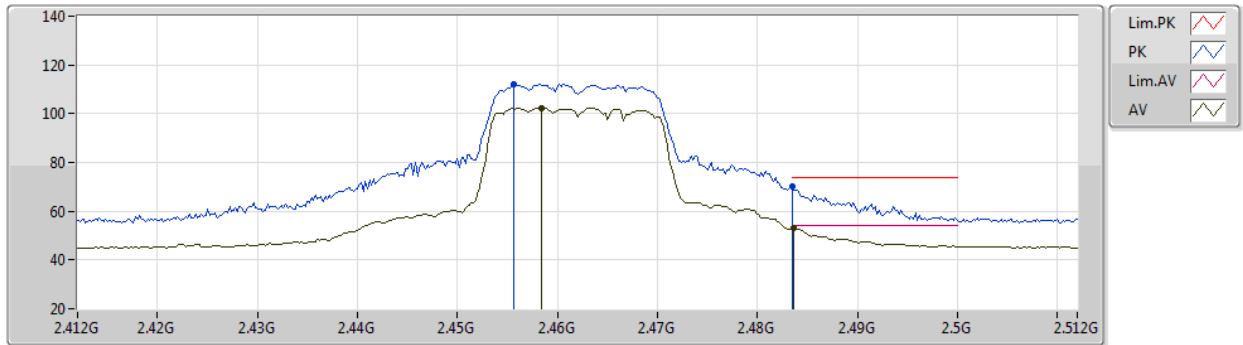
EUT X_2TX
Setting 16.5
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4608G	102.65	Inf	-Inf	70.63	3	Vertical	71	2.81	-	28.46	3.56	-
AV	2.4632G	93.31	Inf	-Inf	61.27	3	Vertical	71	2.81	-	28.48	3.56	-
PK	2.4835G	60.84	74.00	-13.16	28.66	3	Vertical	71	2.81	-	28.60	3.58	-
AV	2.484G	46.67	54.00	-7.33	14.49	3	Vertical	71	2.81	-	28.60	3.58	-

802.11g_Nss1,(6Mbps)_2TX

14/04/2021

2462MHz_TX



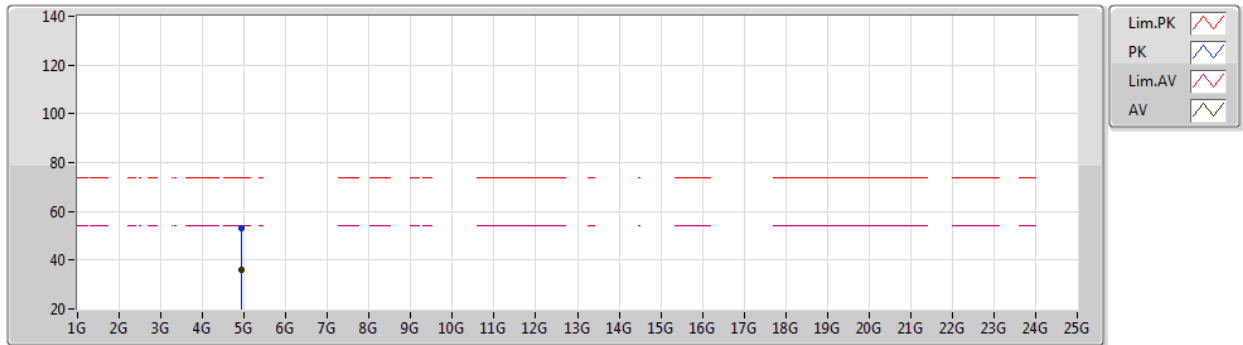
EUT X_2TX
Setting 16.5
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4556G	112.23	Inf	-Inf	80.24	3	Horizontal	2	1.12	-	28.43	3.56	-
AV	2.4584G	102.34	Inf	-Inf	70.33	3	Horizontal	2	1.12	-	28.45	3.56	-
PK	2.4835G	70.03	74.00	-3.97	37.85	3	Horizontal	2	1.12	-	28.60	3.58	-
AV	2.4836G	52.99	54.00	-1.01	20.81	3	Horizontal	2	1.12	-	28.60	3.58	-

802.11g_Nss1,(6Mbps)_2TX

14/04/2021

2462MHz_TX



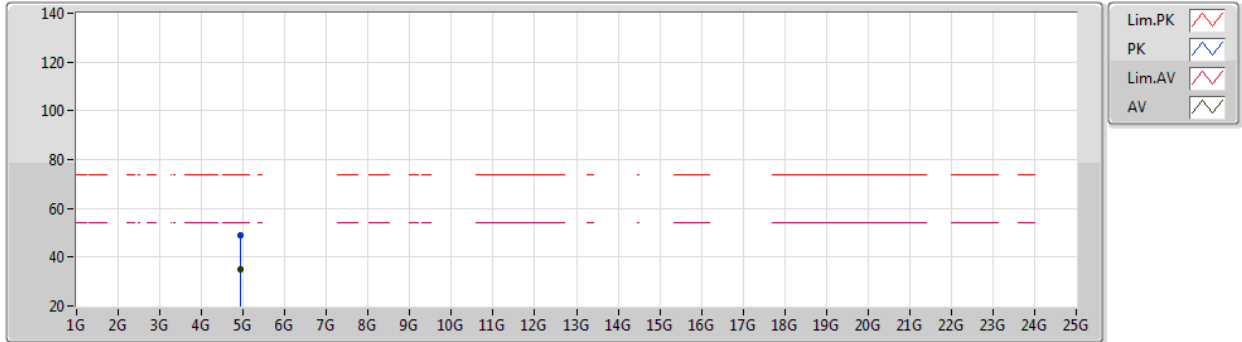
EUT X_2TX
Setting 16.5
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92436G	53.12	74.00	-20.88	48.49	3	Vertical	231	1.10	-	33.65	6.39	35.41
AV	4.92447G	35.91	54.00	-18.09	31.28	3	Vertical	231	1.10	-	33.65	6.39	35.41

802.11g_Nss1,(6Mbps)_2TX

14/04/2021

2462MHz_TX



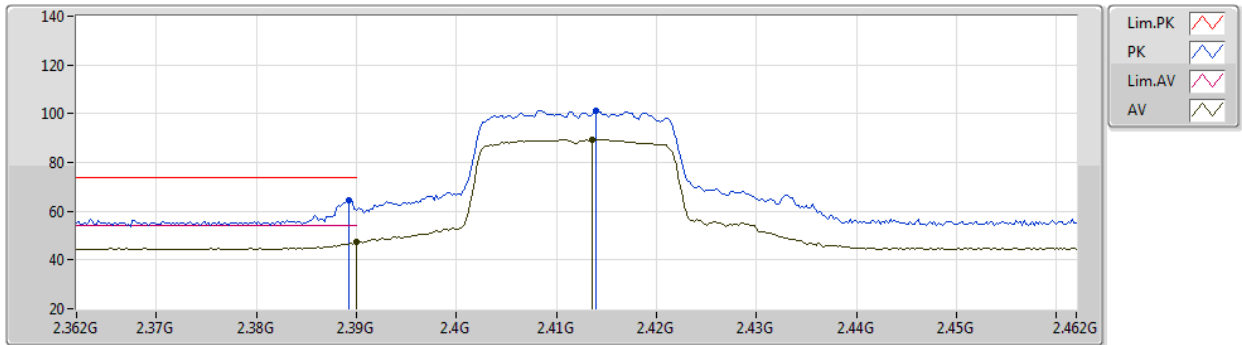
EUT X_2TX
Setting 16.5
03-C-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92473G	49.16	74.00	-24.84	44.53	3	Horizontal	136	2.25	-	33.65	6.39	35.41
AV	4.92476G	34.98	54.00	-19.02	30.35	3	Horizontal	136	2.25	-	33.65	6.39	35.41

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2412MHz_TX

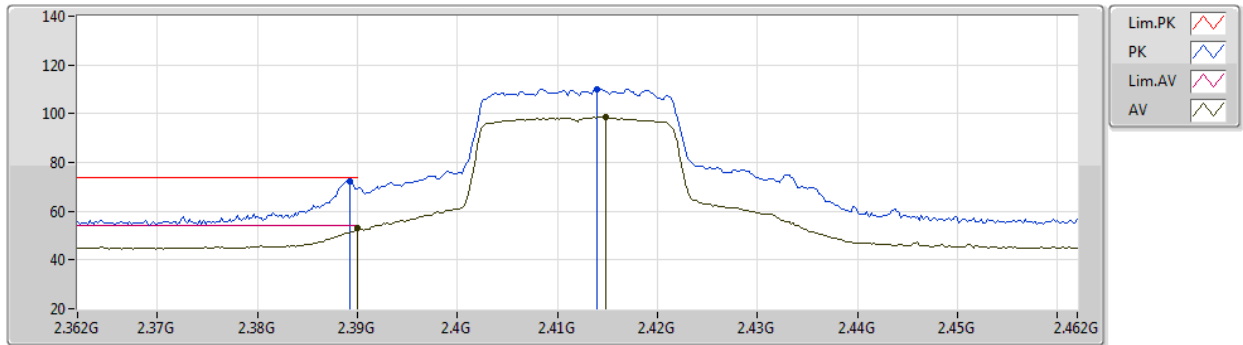


EUT X_2TX
Setting 16
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	64.39	74.00	-9.61	32.58	3	Vertical	285	2.17	-	28.32	3.49	-
AV	2.39G	47.30	54.00	-6.70	15.49	3	Vertical	285	2.17	-	28.32	3.49	-
PK	2.414G	101.14	Inf	-Inf	69.30	3	Vertical	285	2.17	-	28.33	3.51	-
AV	2.4136G	89.37	Inf	-Inf	57.53	3	Vertical	285	2.17	-	28.33	3.51	-

802.11ax HEW20_Nss1,(MCS0)_2TX
2412MHz_TX

14/04/2021



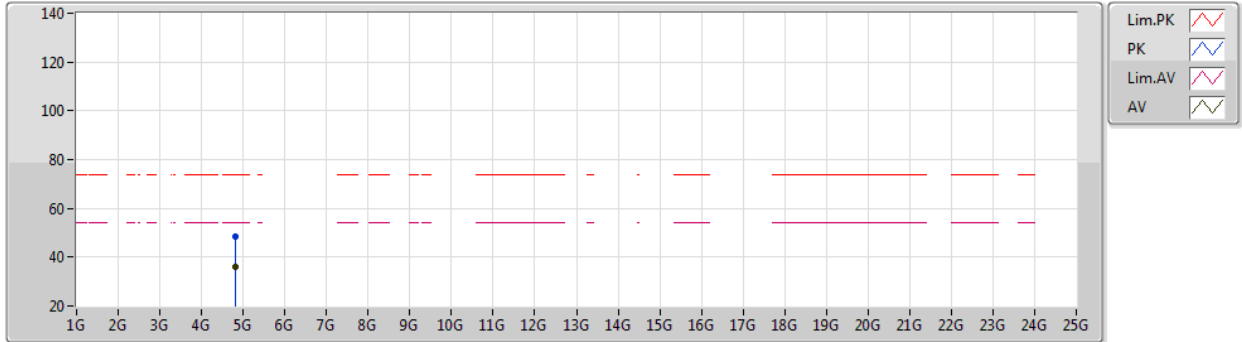
EUT X_2TX
Setting 16
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	72.27	74.00	-1.73	40.46	3	Horizontal	360	1.27	-	28.32	3.49	-
AV	2.39G	52.89	54.00	-1.11	21.08	3	Horizontal	360	1.27	-	28.32	3.49	-
PK	2.414G	110.22	Inf	-Inf	78.38	3	Horizontal	360	1.27	-	28.33	3.51	-
AV	2.4148G	98.57	Inf	-Inf	66.73	3	Horizontal	360	1.27	-	28.33	3.51	-

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2412MHz_TX



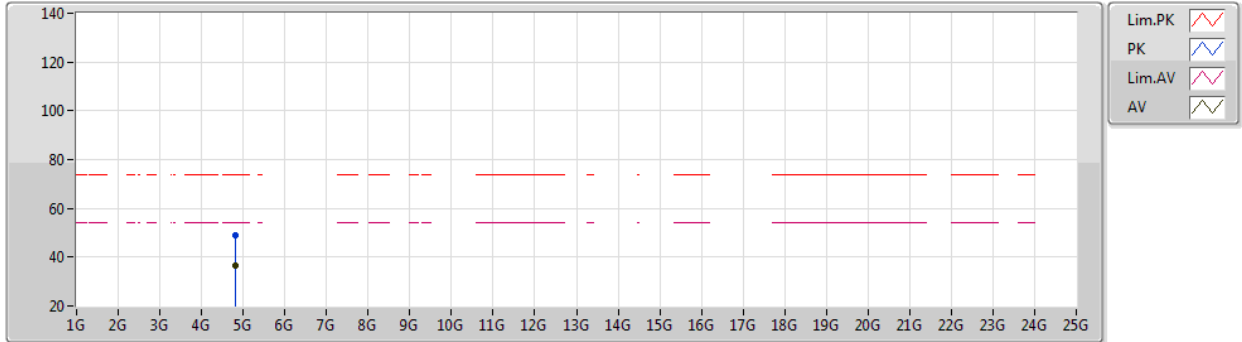
EUT X_2TX
Setting 16
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82448G	48.33	74.00	-25.67	43.99	3	Vertical	252	2.28	-	33.40	6.24	35.30
AV	4.82668G	36.17	54.00	-17.83	31.84	3	Vertical	252	2.28	-	33.40	6.24	35.31

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2412MHz_TX



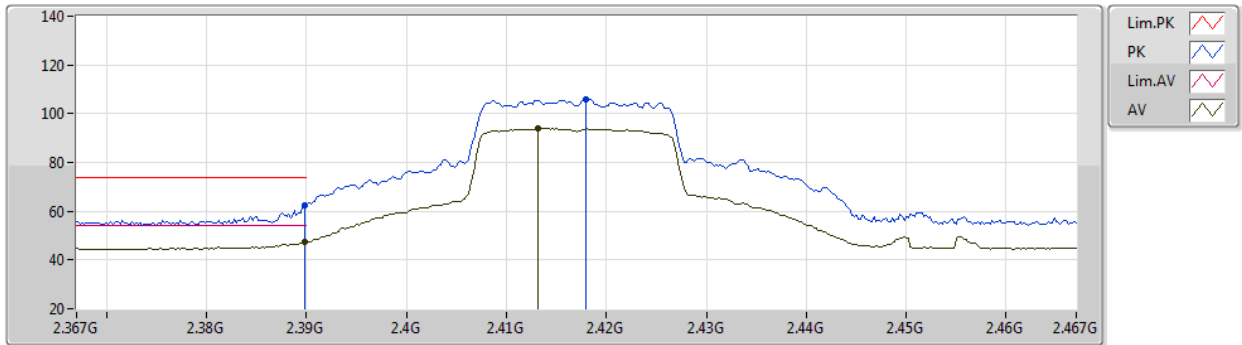
EUT X_2TX
Setting 16
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82464G	48.71	74.00	-25.29	44.37	3	Horizontal	128	1.98	-	33.40	6.24	35.30
AV	4.82492G	36.67	54.00	-17.33	32.33	3	Horizontal	128	1.98	-	33.40	6.24	35.30

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2417MHz_TX



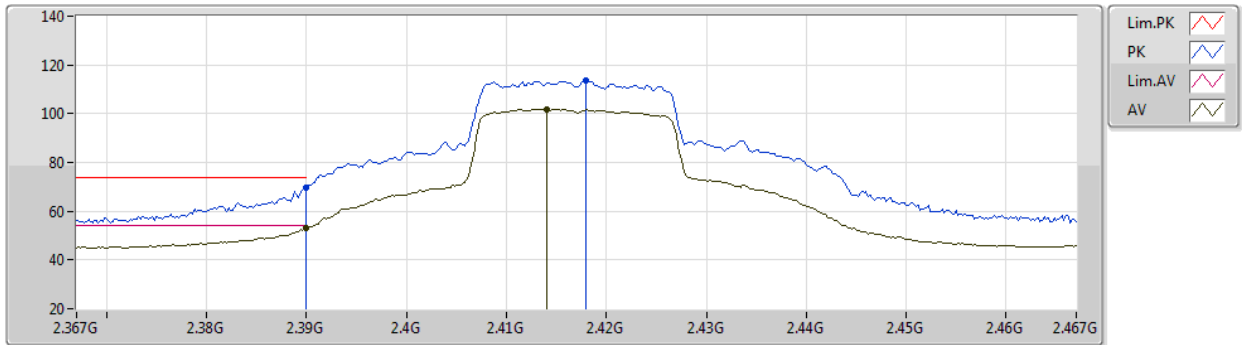
EUT X_2TX
Setting 19.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	62.24	74.00	-11.76	30.43	3	Vertical	268	2.43	-	28.32	3.49	-
AV	2.3898G	47.41	54.00	-6.59	15.60	3	Vertical	268	2.43	-	28.32	3.49	-
PK	2.418G	105.82	Inf	-Inf	73.96	3	Vertical	268	2.43	-	28.34	3.52	-
AV	2.4132G	93.98	Inf	-Inf	62.14	3	Vertical	268	2.43	-	28.33	3.51	-

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2417MHz_TX



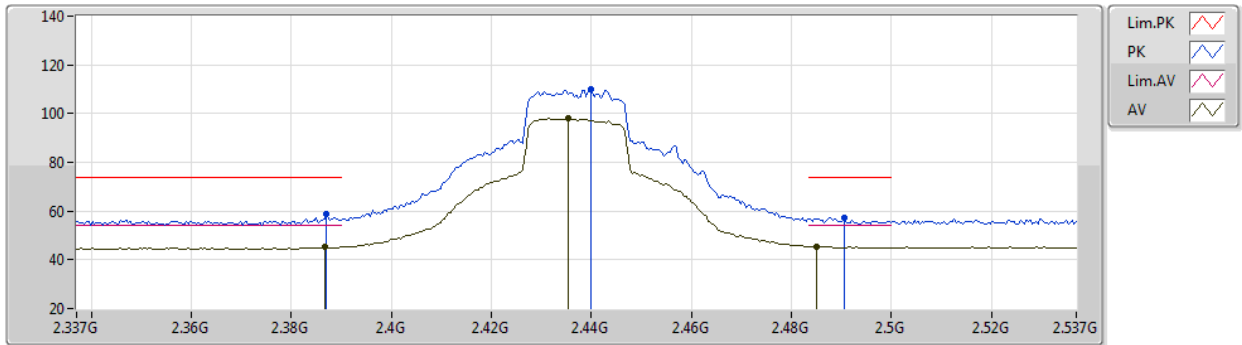
EUT X_2TX
Setting 19.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	69.62	74.00	-4.38	37.81	3	Horizontal	357	1.27	-	28.32	3.49	-
AV	2.39G	52.86	54.00	-1.14	21.05	3	Horizontal	357	1.27	-	28.32	3.49	-
PK	2.418G	113.55	Inf	-Inf	81.69	3	Horizontal	357	1.27	-	28.34	3.52	-
AV	2.414G	101.88	Inf	-Inf	70.04	3	Horizontal	357	1.27	-	28.33	3.51	-

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2437MHz_TX



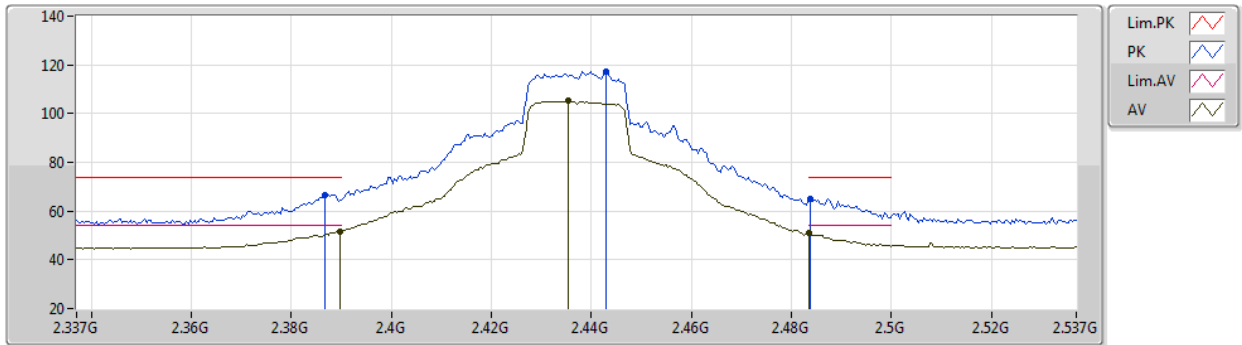
EUT X_2TX
Setting 23.25
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	58.79	74.00	-15.21	26.97	3	Vertical	278	3.00	-	28.33	3.49	-
AV	2.3866G	45.30	54.00	-8.70	13.48	3	Vertical	278	3.00	-	28.33	3.49	-
PK	2.4398G	109.75	Inf	-Inf	77.83	3	Vertical	278	3.00	-	28.38	3.54	-
AV	2.4354G	98.03	Inf	-Inf	66.12	3	Vertical	278	3.00	-	28.37	3.54	-
PK	2.4906G	57.47	74.00	-16.53	25.24	3	Vertical	278	3.00	-	28.64	3.59	-
AV	2.485G	45.60	54.00	-8.40	13.40	3	Vertical	278	3.00	-	28.61	3.59	-

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2437MHz_TX

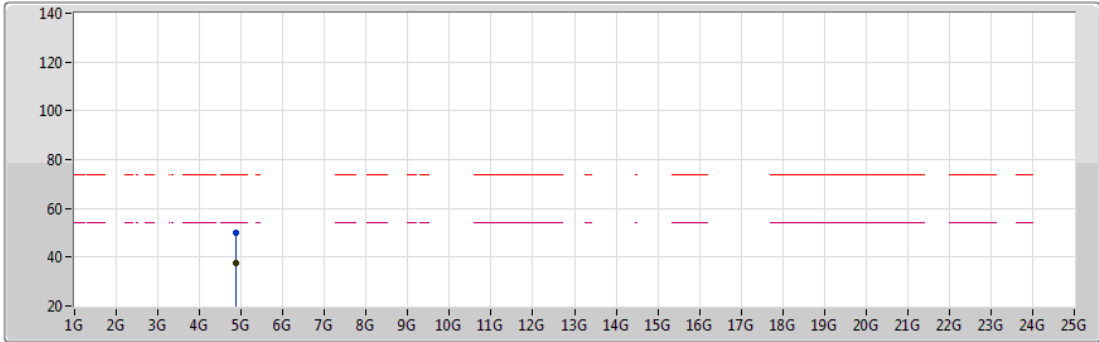






EUT X_2TX
Setting 23.25
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3866G	66.65	74.00	-7.35	34.83	3	Horizontal	357	1.21	-	28.33	3.49	-
AV	2.3898G	51.76	54.00	-2.24	19.95	3	Horizontal	357	1.21	-	28.32	3.49	-
PK	2.443G	117.27	Inf	-Inf	85.34	3	Horizontal	357	1.21	-	28.39	3.54	-
AV	2.4354G	105.19	Inf	-Inf	73.28	3	Horizontal	357	1.21	-	28.37	3.54	-
PK	2.4838G	65.23	74.00	-8.77	33.05	3	Horizontal	357	1.21	-	28.60	3.58	-
AV	2.4835G	50.80	54.00	-3.20	18.62	3	Horizontal	357	1.21	-	28.60	3.58	-

802.11ax HEW20_Nss1,(MCS0)_2TX
2437MHz_TX

14/04/2021



Lim.PK 
 PK 
 Lim.AV 
 AV 

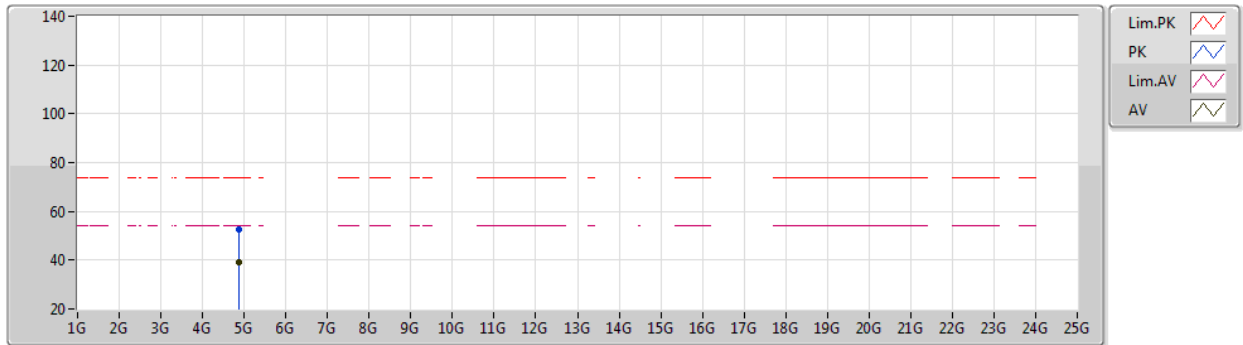
EUT X_2TX
Setting 23.25
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87748G	50.07	74.00	-23.93	45.60	3	Vertical	172	1.91	-	33.51	6.32	35.36
AV	4.86792G	37.52	54.00	-16.48	33.10	3	Vertical	172	1.91	-	33.47	6.30	35.35

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2437MHz_TX



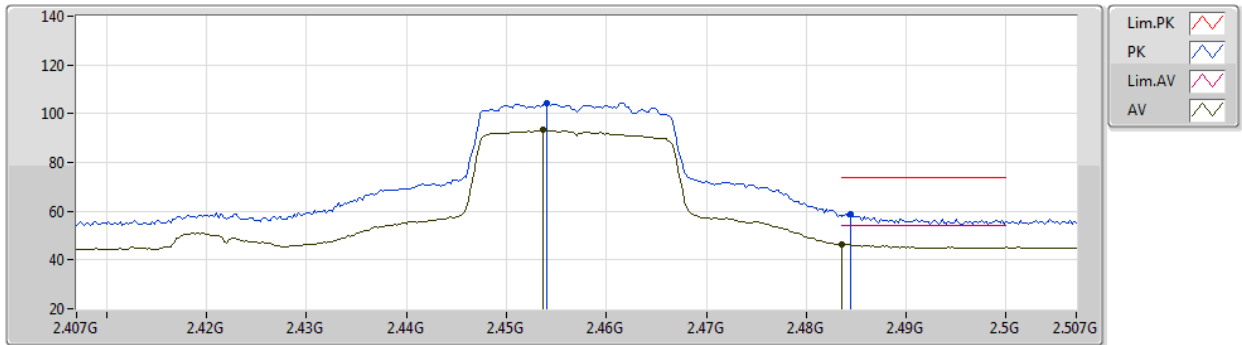
EUT X_2TX
Setting 23.25
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87556G	52.44	74.00	-21.56	47.99	3	Horizontal	155	2.55	-	33.50	6.31	35.36
AV	4.87228G	39.39	54.00	-14.61	34.94	3	Horizontal	155	2.55	-	33.49	6.31	35.35

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2457MHz_TX



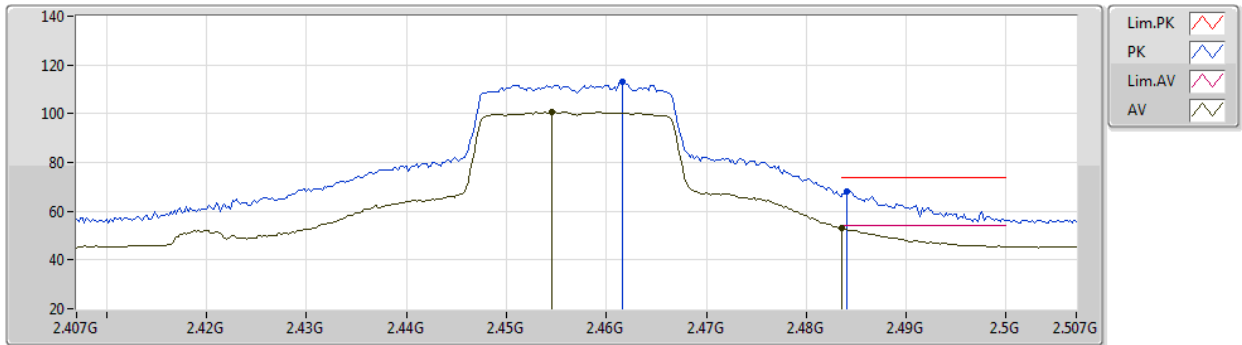
EUT X_2TX
Setting 18
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.454G	104.19	Inf	-Inf	72.22	3	Vertical	270	2.64	-	28.42	3.55	-
AV	2.4536G	93.20	Inf	-Inf	61.23	3	Vertical	270	2.64	-	28.42	3.55	-
PK	2.4844G	58.94	74.00	-15.06	26.75	3	Vertical	270	2.64	-	28.61	3.58	-
AV	2.4835G	46.49	54.00	-7.51	14.31	3	Vertical	270	2.64	-	28.60	3.58	-

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2457MHz_TX



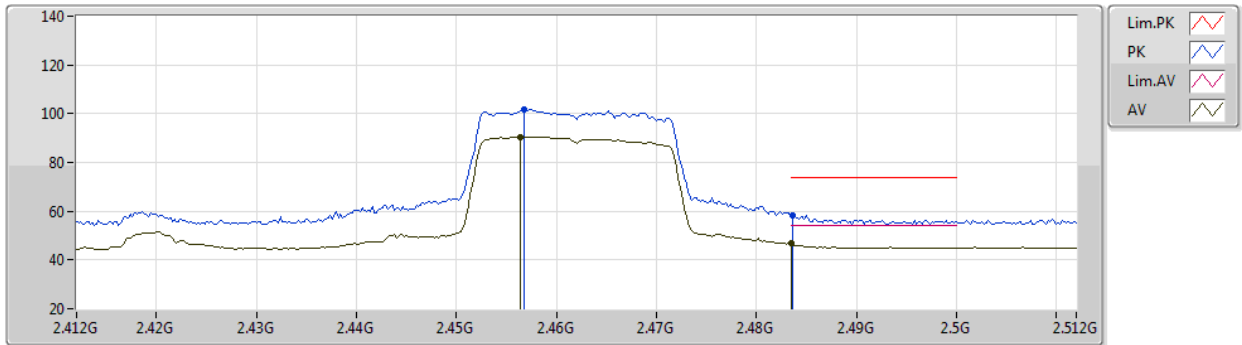
EUT X_2TX
Setting 18
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4616G	113.22	Inf	-Inf	81.19	3	Horizontal	3	1.14	-	28.47	3.56	-
AV	2.4546G	100.72	Inf	-Inf	68.74	3	Horizontal	3	1.14	-	28.43	3.55	-
PK	2.484G	68.08	74.00	-5.92	35.90	3	Horizontal	3	1.14	-	28.60	3.58	-
AV	2.4836G	52.91	54.00	-1.09	20.73	3	Horizontal	3	1.14	-	28.60	3.58	-

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2462MHz_TX

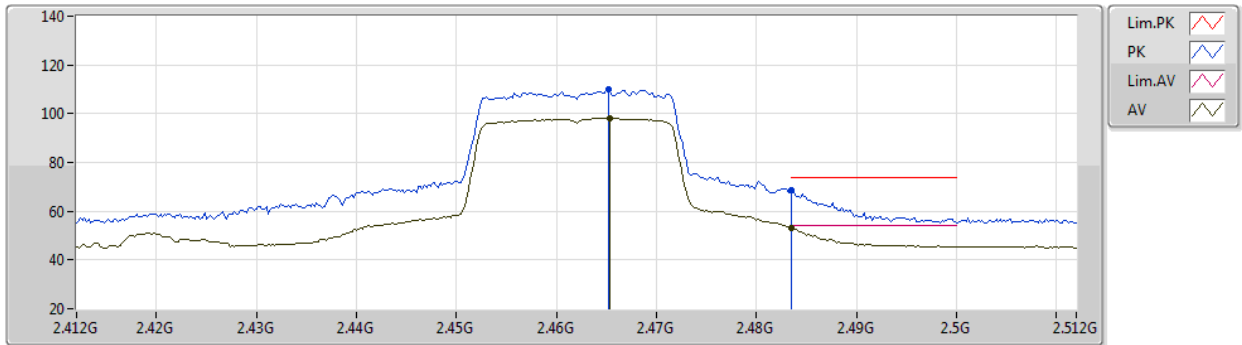


EUT X_2TX
Setting 15.25
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4568G	101.61	Inf	-Inf	69.61	3	Vertical	278	2.65	-	28.44	3.56	-
AV	2.4564G	90.54	Inf	-Inf	58.54	3	Vertical	278	2.65	-	28.44	3.56	-
PK	2.4836G	58.48	74.00	-15.52	26.30	3	Vertical	278	2.65	-	28.60	3.58	-
AV	2.4835G	46.76	54.00	-7.24	14.58	3	Vertical	278	2.65	-	28.60	3.58	-

802.11ax HEW20_Nss1,(MCS0)_2TX
2462MHz_TX

14/04/2021



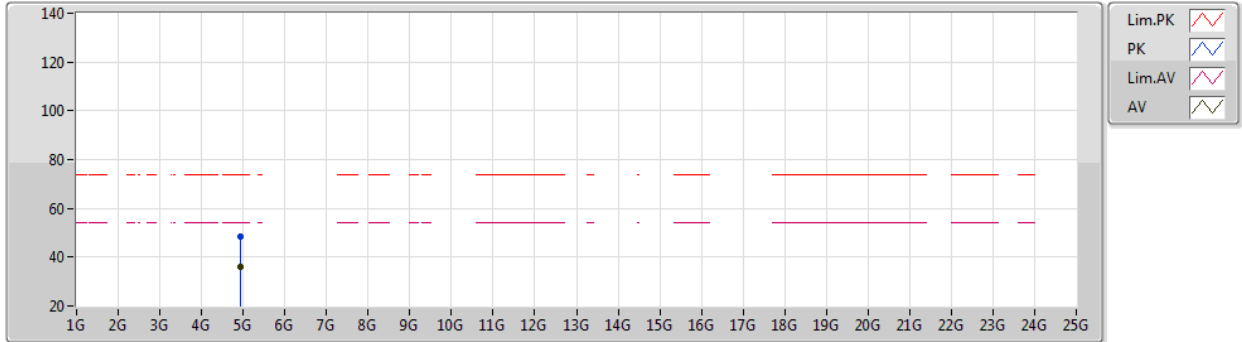
EUT X_2TX
Setting 15.25
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4652G	109.93	Inf	-Inf	77.87	3	Horizontal	360	1.17	-	28.49	3.57	-
AV	2.4654G	98.25	Inf	-Inf	66.19	3	Horizontal	360	1.17	-	28.49	3.57	-
PK	2.4835G	68.51	74.00	-5.49	36.33	3	Horizontal	360	1.17	-	28.60	3.58	-
AV	2.4835G	52.85	54.00	-1.15	20.67	3	Horizontal	360	1.17	-	28.60	3.58	-

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2462MHz_TX



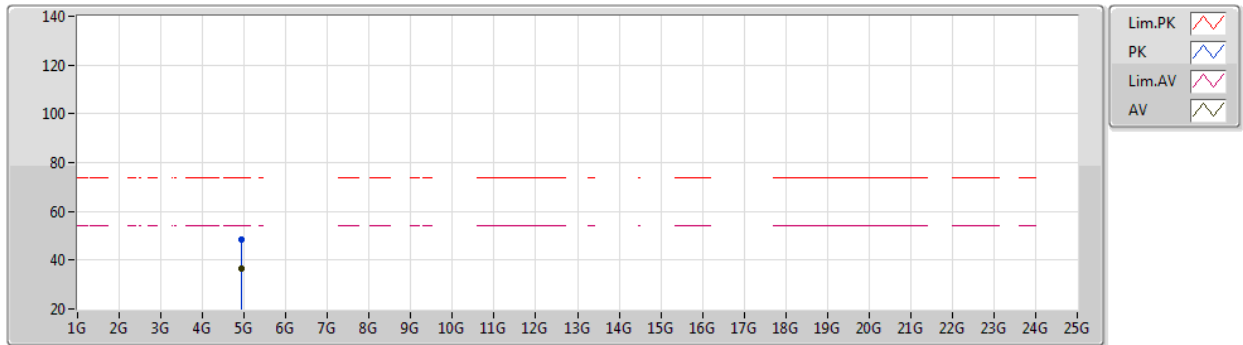
EUT X_2TX
Setting 15.25
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92464G	48.45	74.00	-25.55	43.82	3	Vertical	51	2.70	-	33.65	6.39	35.41
AV	4.92408G	35.96	54.00	-18.04	31.33	3	Vertical	51	2.70	-	33.65	6.39	35.41

802.11ax HEW20_Nss1,(MCS0)_2TX

14/04/2021

2462MHz_TX

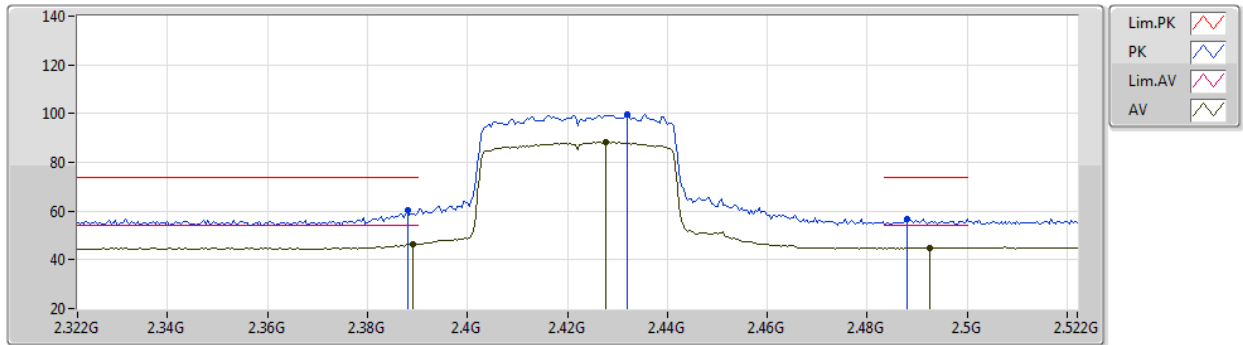


EUT X_2TX
 Setting 15.25
 03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92432G	48.22	74.00	-25.78	43.59	3	Horizontal	74	2.65	-	33.65	6.39	35.41
AV	4.92408G	36.30	54.00	-17.70	31.67	3	Horizontal	74	2.65	-	33.65	6.39	35.41

802.11ax HEW40_Nss1,(MCS0)_2TX
2422MHz_TX

14/04/2021



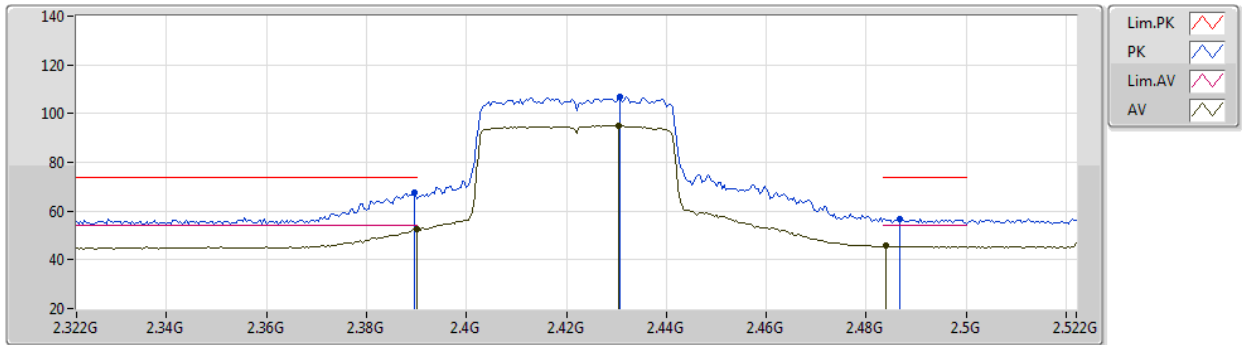
EUT X_2TX
Setting 15.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	60.35	74.00	-13.65	28.54	3	Vertical	286	3.00	-	28.32	3.49	-
AV	2.3892G	46.42	54.00	-7.58	14.61	3	Vertical	286	3.00	-	28.32	3.49	-
PK	2.432G	99.75	Inf	-Inf	67.86	3	Vertical	286	3.00	-	28.36	3.53	-
AV	2.4276G	88.33	Inf	-Inf	56.44	3	Vertical	286	3.00	-	28.36	3.53	-
PK	2.488G	56.91	74.00	-17.09	24.69	3	Vertical	286	3.00	-	28.63	3.59	-
AV	2.4924G	44.97	54.00	-9.03	12.73	3	Vertical	286	3.00	-	28.65	3.59	-

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2422MHz_TX



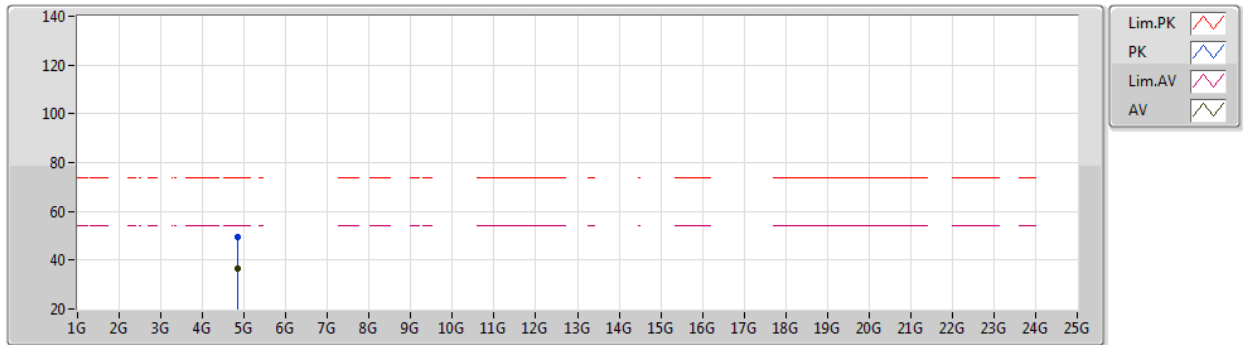
EUT X_2TX
Setting 15.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	67.35	74.00	-6.65	35.54	3	Horizontal	358	1.18	-	28.32	3.49	-
AV	2.39G	52.81	54.00	-1.19	21.00	3	Horizontal	358	1.18	-	28.32	3.49	-
PK	2.4308G	106.80	Inf	-Inf	74.91	3	Horizontal	358	1.18	-	28.36	3.53	-
AV	2.4304G	94.98	Inf	-Inf	63.09	3	Horizontal	358	1.18	-	28.36	3.53	-
PK	2.4868G	56.73	74.00	-17.27	24.52	3	Horizontal	358	1.18	-	28.62	3.59	-
AV	2.484G	45.68	54.00	-8.32	13.50	3	Horizontal	358	1.18	-	28.60	3.58	-

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2422MHz_TX



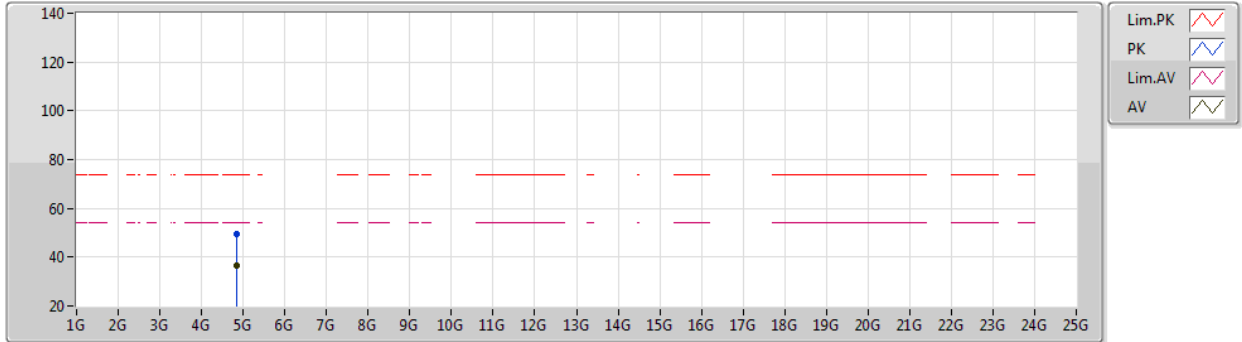
EUT X_2TX
 Setting 15.5
 03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84972G	49.51	74.00	-24.49	45.17	3	Vertical	214	1.59	-	33.40	6.27	35.33
AV	4.84476G	36.64	54.00	-17.36	32.30	3	Vertical	214	1.59	-	33.40	6.27	35.33

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2422MHz_TX



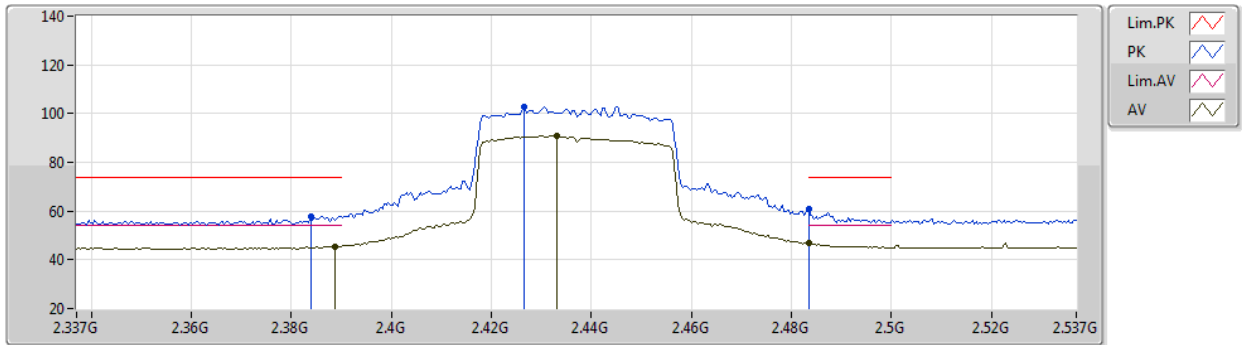
EUT X_2TX
Setting 15.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83632G	49.50	74.00	-24.50	45.17	3	Horizontal	84	1.82	-	33.40	6.25	35.32
AV	4.84532G	36.80	54.00	-17.20	32.46	3	Horizontal	84	1.82	-	33.40	6.27	35.33

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2437MHz_TX



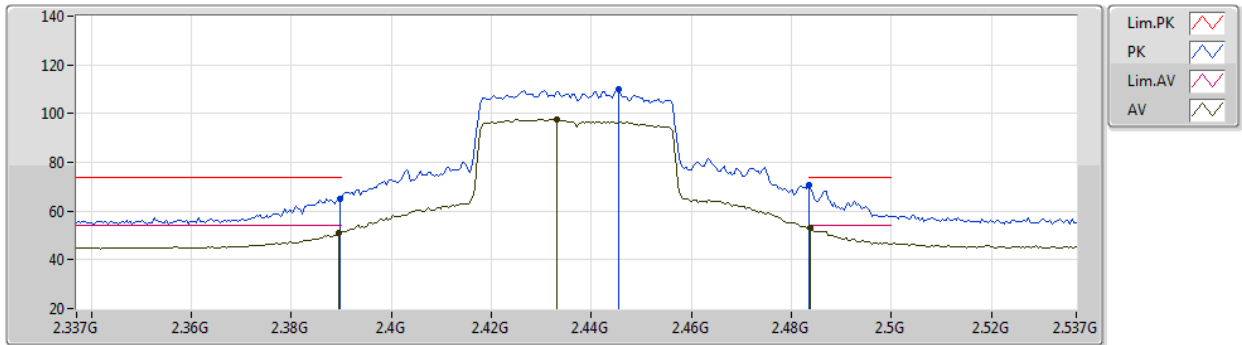
EUT X_2TX
Setting 17.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3838G	57.66	74.00	-16.34	25.85	3	Vertical	277	3.00	-	28.33	3.48	-
AV	2.3886G	45.57	54.00	-8.43	13.76	3	Vertical	277	3.00	-	28.32	3.49	-
PK	2.4266G	102.87	Inf	-Inf	70.99	3	Vertical	277	3.00	-	28.35	3.53	-
AV	2.433G	90.89	Inf	-Inf	58.99	3	Vertical	277	3.00	-	28.37	3.53	-
PK	2.4835G	60.88	74.00	-13.12	28.70	3	Vertical	277	3.00	-	28.60	3.58	-
AV	2.4835G	46.70	54.00	-7.30	14.52	3	Vertical	277	3.00	-	28.60	3.58	-

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2437MHz_TX



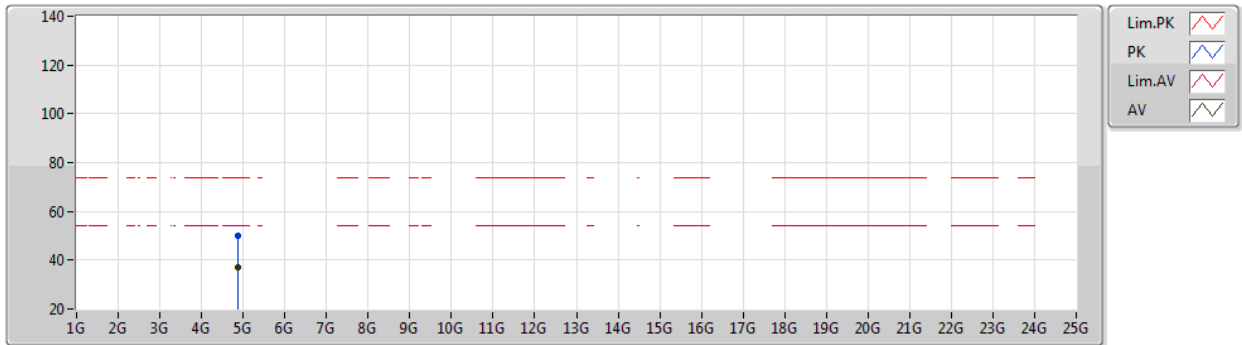
EUT X_2TX
Setting 17.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	64.98	74.00	-9.02	33.17	3	Horizontal	358	1.19	-	28.32	3.49	-
AV	2.3894G	50.85	54.00	-3.15	19.04	3	Horizontal	358	1.19	-	28.32	3.49	-
PK	2.4454G	109.93	Inf	-Inf	77.99	3	Horizontal	358	1.19	-	28.39	3.55	-
AV	2.433G	97.63	Inf	-Inf	65.73	3	Horizontal	358	1.19	-	28.37	3.53	-
PK	2.4835G	70.91	74.00	-3.09	38.73	3	Horizontal	358	1.19	-	28.60	3.58	-
AV	2.4838G	52.98	54.00	-1.02	20.80	3	Horizontal	358	1.19	-	28.60	3.58	-

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2437MHz_TX



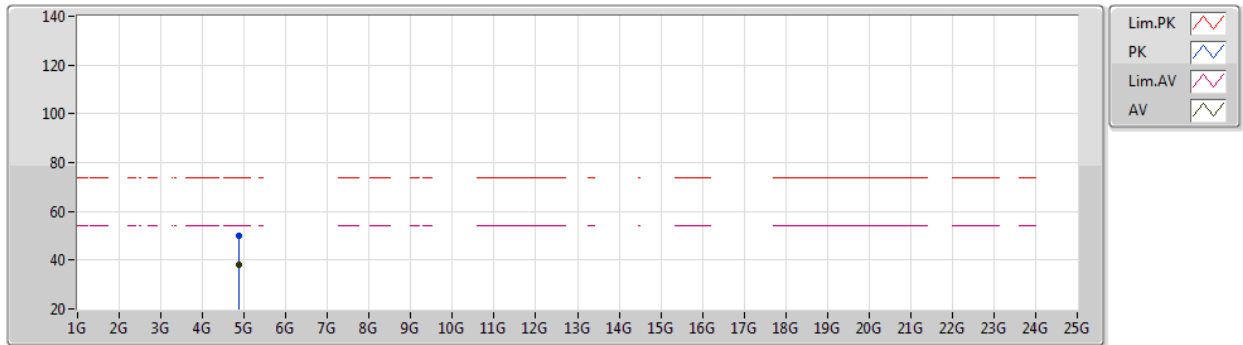
EUT X_2TX
Setting 17.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88056G	49.78	74.00	-24.22	45.30	3	Vertical	240	1.53	-	33.52	6.32	35.36
AV	4.88368G	37.20	54.00	-16.80	32.71	3	Vertical	240	1.53	-	33.53	6.33	35.37

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2437MHz_TX



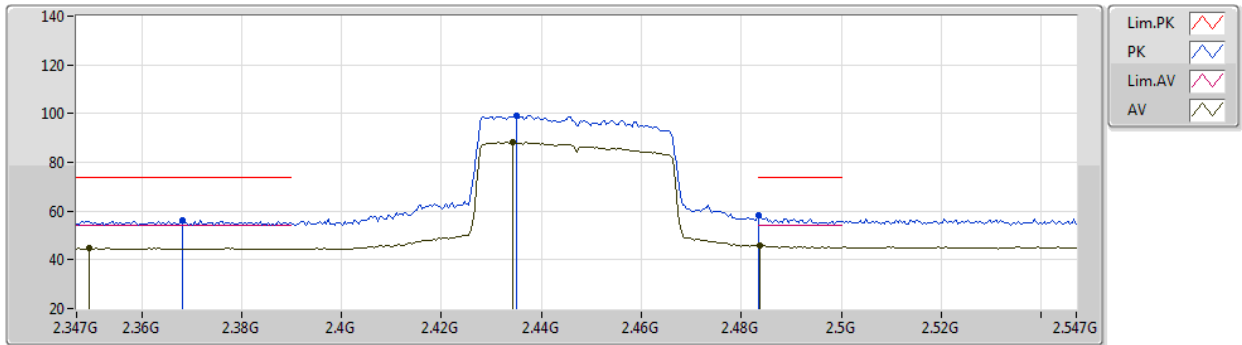
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Setting 17.5
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87764G	49.88	74.00	-24.12	45.41	3	Horizontal	314	2.07	-	33.51	6.32	35.36
AV	4.87836G	37.89	54.00	-16.11	33.42	3	Horizontal	314	2.07	-	33.51	6.32	35.36

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2447MHz_TX



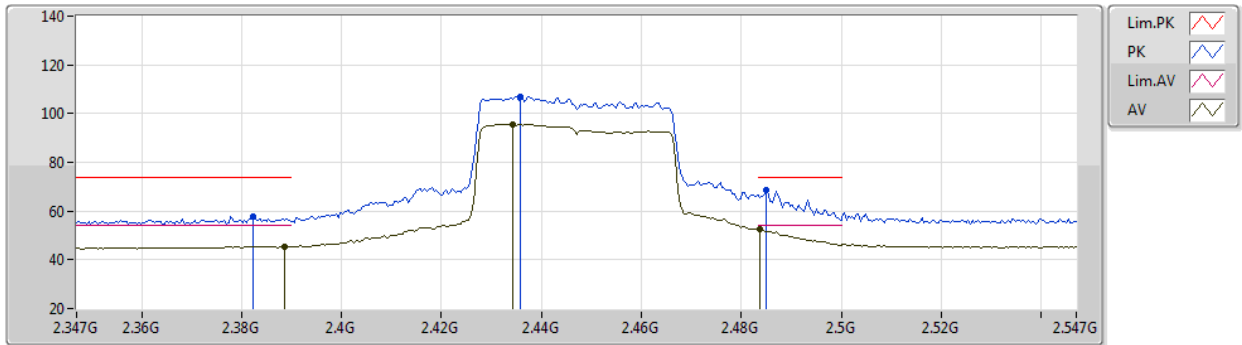
EUT X_2TX
Setting 15.25
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3682G	56.24	74.00	-17.76	24.41	3	Vertical	283	3.00	-	28.36	3.47	-
AV	2.3494G	45.02	54.00	-8.98	13.17	3	Vertical	283	3.00	-	28.40	3.45	-
PK	2.435G	99.32	Inf	-Inf	67.41	3	Vertical	283	3.00	-	28.37	3.54	-
AV	2.4342G	88.11	Inf	-Inf	56.21	3	Vertical	283	3.00	-	28.37	3.53	-
PK	2.4835G	58.09	74.00	-15.91	25.91	3	Vertical	283	3.00	-	28.60	3.58	-
AV	2.4838G	45.85	54.00	-8.15	13.67	3	Vertical	283	3.00	-	28.60	3.58	-

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2447MHz_TX



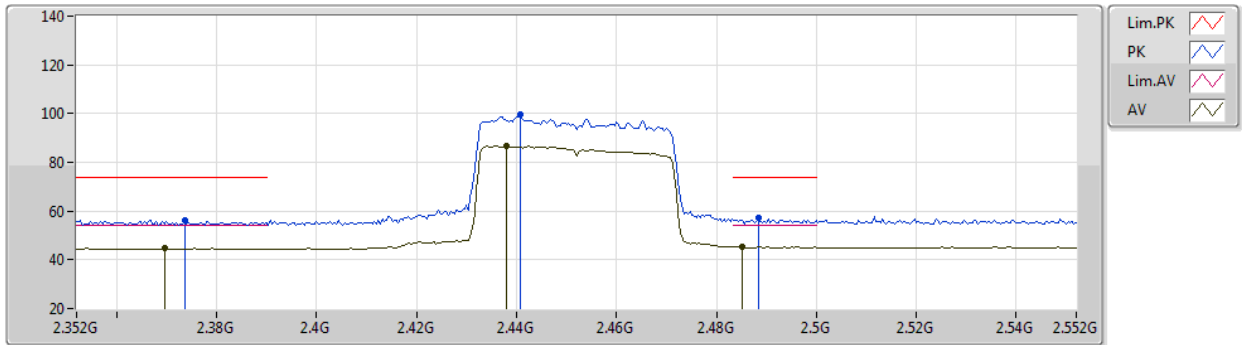
EUT X_2TX
Setting 15.25
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3822G	57.73	74.00	-16.27	25.91	3	Horizontal	354	1.21	-	28.34	3.48	-
AV	2.3886G	45.54	54.00	-8.46	13.73	3	Horizontal	354	1.21	-	28.32	3.49	-
PK	2.4358G	106.96	Inf	-Inf	75.05	3	Horizontal	354	1.21	-	28.37	3.54	-
AV	2.4342G	95.60	Inf	-Inf	63.70	3	Horizontal	354	1.21	-	28.37	3.53	-
PK	2.485G	68.39	74.00	-5.61	36.19	3	Horizontal	354	1.21	-	28.61	3.59	-
AV	2.4838G	52.79	54.00	-1.21	20.61	3	Horizontal	354	1.21	-	28.60	3.58	-

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2452MHz_TX



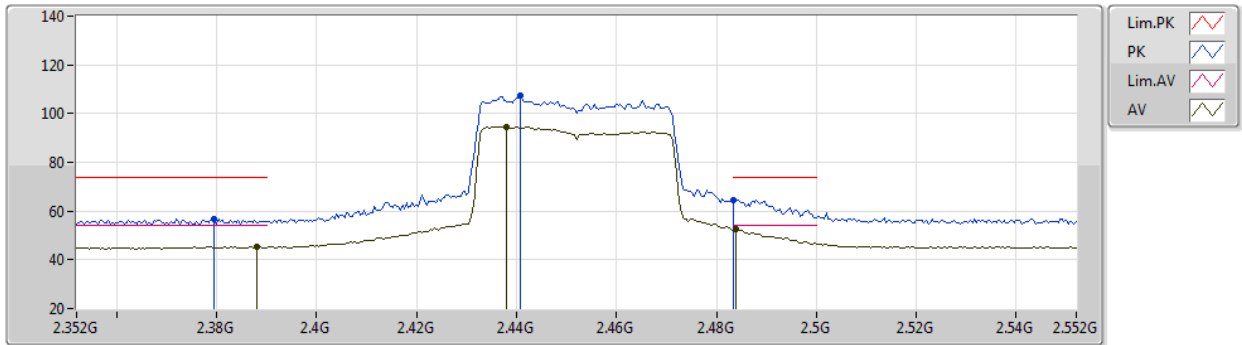
EUT X_2TX
Setting 14
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3736G	56.31	74.00	-17.69	24.49	3	Vertical	283	2.98	-	28.35	3.47	-
AV	2.3696G	44.70	54.00	-9.30	12.87	3	Vertical	283	2.98	-	28.36	3.47	-
PK	2.4408G	99.48	Inf	-Inf	67.56	3	Vertical	283	2.98	-	28.38	3.54	-
AV	2.438G	86.67	Inf	-Inf	54.75	3	Vertical	283	2.98	-	28.38	3.54	-
PK	2.4884G	57.06	74.00	-16.94	24.84	3	Vertical	283	2.98	-	28.63	3.59	-
AV	2.4852G	45.45	54.00	-8.55	13.25	3	Vertical	283	2.98	-	28.61	3.59	-

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2452MHz_TX



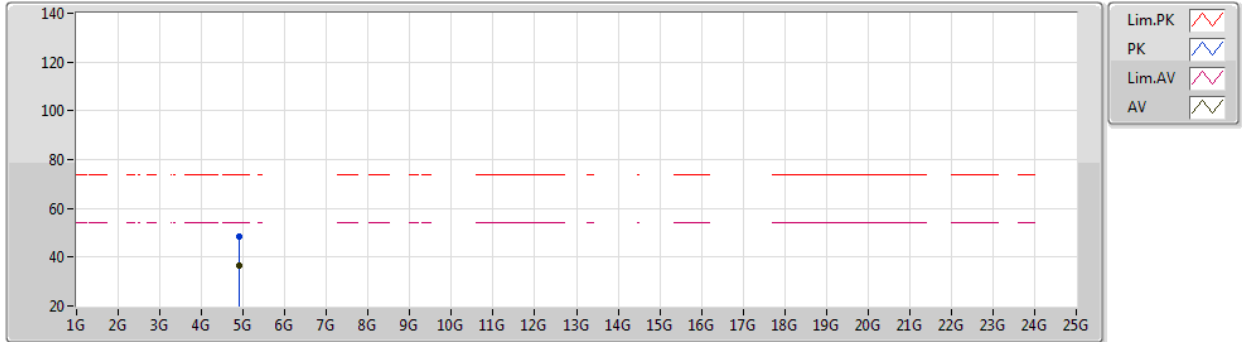
EUT X_2TX
Setting 14
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3796G	56.68	74.00	-17.32	24.86	3	Horizontal	357	1.21	-	28.34	3.48	-
AV	2.388G	45.36	54.00	-8.64	13.55	3	Horizontal	357	1.21	-	28.32	3.49	-
PK	2.4408G	107.32	Inf	-Inf	75.40	3	Horizontal	357	1.21	-	28.38	3.54	-
AV	2.438G	94.69	Inf	-Inf	62.77	3	Horizontal	357	1.21	-	28.38	3.54	-
PK	2.4835G	64.58	74.00	-9.42	32.40	3	Horizontal	357	1.21	-	28.60	3.58	-
AV	2.484G	52.78	54.00	-1.22	20.60	3	Horizontal	357	1.21	-	28.60	3.58	-

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2452MHz_TX



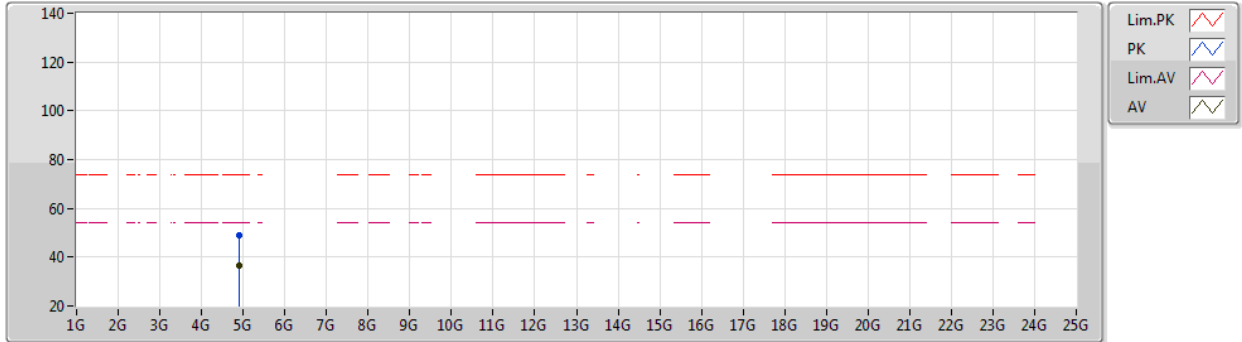
EUT X_2TX
Setting 14
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.89984G	48.69	74.00	-25.31	44.12	3	Vertical	305	2.52	-	33.60	6.35	35.38
AV	4.89968G	36.49	54.00	-17.51	31.92	3	Vertical	305	2.52	-	33.60	6.35	35.38

802.11ax HEW40_Nss1,(MCS0)_2TX

14/04/2021

2452MHz_TX



EUT X_2TX
Setting 14
03-C-B-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8984G	49.12	74.00	-24.88	44.56	3	Horizontal	278	1.42	-	33.59	6.35	35.38
AV	4.89904G	36.73	54.00	-17.27	32.16	3	Horizontal	278	1.42	-	33.60	6.35	35.38