



FCC RADIO TEST REPORT

FCC ID : 2AHKM-CGNV5TFC
Equipment : 24X8 P6 DBCC WiFi eMTA
Brand Name : hitron
Model Name : CGNV5
Applicant : Hitron Technologies Inc.
No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park,
Hsinchu 30078, Taiwan
Manufacturer : Hitron Technologies Inc.
No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park,
Hsinchu 30078, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 29, 2020, and testing was started from Nov. 30, 2020 and completed on Jan. 11, 2021. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Cliff Chang

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



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_10 Ver1.2

Page Number : 3 of 30
Issued Date : Jan. 18, 2021
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
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: 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)	2412-2462	1-11 [11]
2400-2483.5	n (HT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	3TX
2.4-2.4835GHz	802.11n HT20	20	3TX
2.4-2.4835GHz	802.11n HT40	40	3TX

Note:

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

1.2 Antenna Information

Ant.	Port		Brand	Model Name	Type	Connector	Gain (dBi)
	2.4GHz	5GHz					
1	3	-	LYNWAVE	ALX20P-051AA7-00	Dipole	I-PEX	2.9
2	2	-	LYNWAVE	ALX20P-051AA8-00	Dipole	I-PEX	2.6
3	1	-	LYNWAVE	ALX20P-051AA9-00	Dipole	I-PEX	3.3
4	-	4	LYNWAVE	ALX20P-091AAG-00	Dipole	I-PEX	3.4
5	-	3	LYNWAVE	ALX20P-091AAH-00	Dipole	I-PEX	3.5
6	-	2	LYNWAVE	ALX20P-091AAJ-00	Dipole	I-PEX	3.9
7	-	1	LYNWAVE	ALX20P-091AAK-00	Dipole	I-PEX	3.6

Note 1: The above information was declared by manufacturer.

Note 2: The EUT has seven antennas.

<For 2.4GHz Band>

For IEEE 802.11b mode (1TX/1RX)

Only Port 1 can be used as transmitting/receiving.

For IEEE 802.11g/n mode (3TX/3RX)

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

<For 5GHz Band>

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

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

**1.2.1 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11n HT20	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11n HT40	0.964	0.16	650u	3k

Note:

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

1.2.2 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	Lantiq DUT Version 540.81			

Note: The above information was declared by manufacturer.



1.3 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

1.4 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Brian Sun	21.5~23 / 57~58	Dec. 04, 2020
Radiated<1GHz	03CH06-CB	Bruce Yang	14.9~15.4 / 54~56	Nov. 30, 2020 ~ Jan. 08, 2021
Radiated>1GHz	03CH01-CB	Bruce Yang	24.1~24.9 / 56~58	Nov. 30, 2020 ~ Jan. 08, 2021
AC Conduction	CO01-CB	Zack Kuo	20~21 / 48~49	Jan. 11, 2021

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.



1.5 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)_1TX	-
2412MHz	14
2437MHz	13
2462MHz	12
802.11g_Nss1,(6Mbps)_3TX	-
2412MHz	19.5
2437MHz	21.5
2457MHz	20.5
2462MHz	18.5
802.11n HT20_Nss1,(MCS0)_3TX	-
2412MHz	18.5
2417MHz	20.5
2437MHz	21.5
2457MHz	18.5
2462MHz	17.5
802.11n HT40_Nss1,(MCS0)_3TX	-
2422MHz	13.5
2427MHz	17.5
2437MHz	19.5
2447MHz	16
2452MHz	14.5

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	CTX - WLAN 2.4GHz
2	CTX - WLAN 5GHz
For operating mode 1 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
1	CTX - WLAN 2.4GHz
2	CTX - WLAN 5GHz
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX

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.: FA9O1614-01 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used at Y axis position.

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	APD	WA-30P12FU	INPUT: 100-240V ~ 50-60Hz, 0.9A Max. OUTPUT: 12V, 2.5A
Other			
RJ-45 cable*1: Non-shielded 1.5m			

2.5 Support Equipment

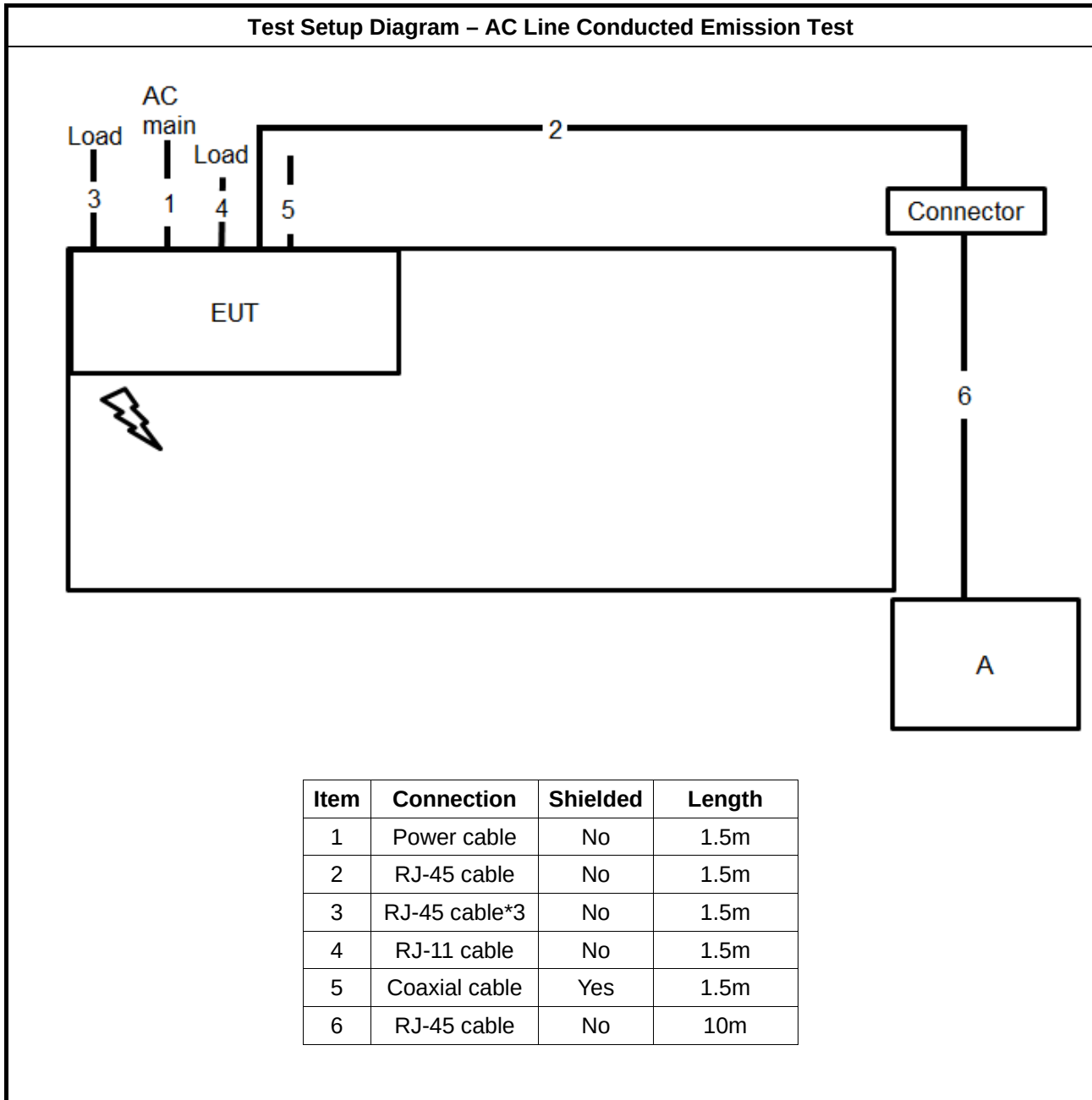
For AC Conduction:

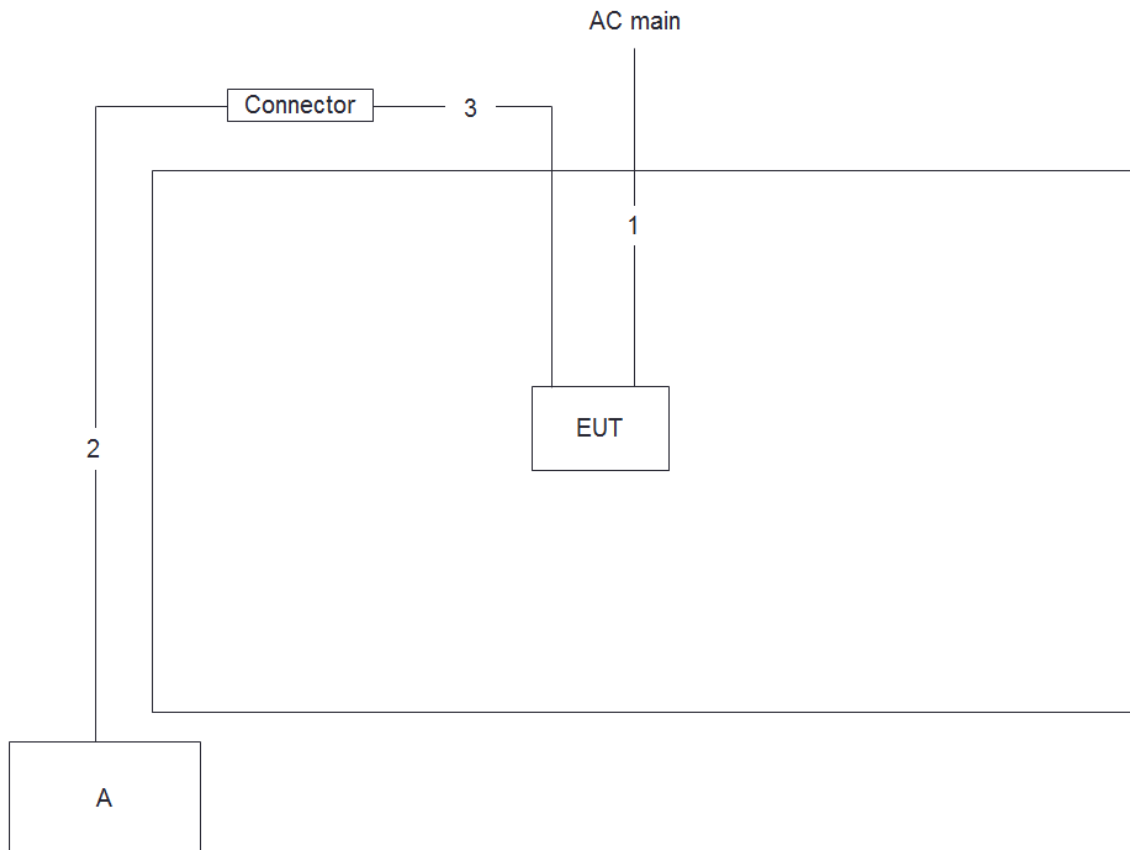
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A

For Radiated and RF Conducted:

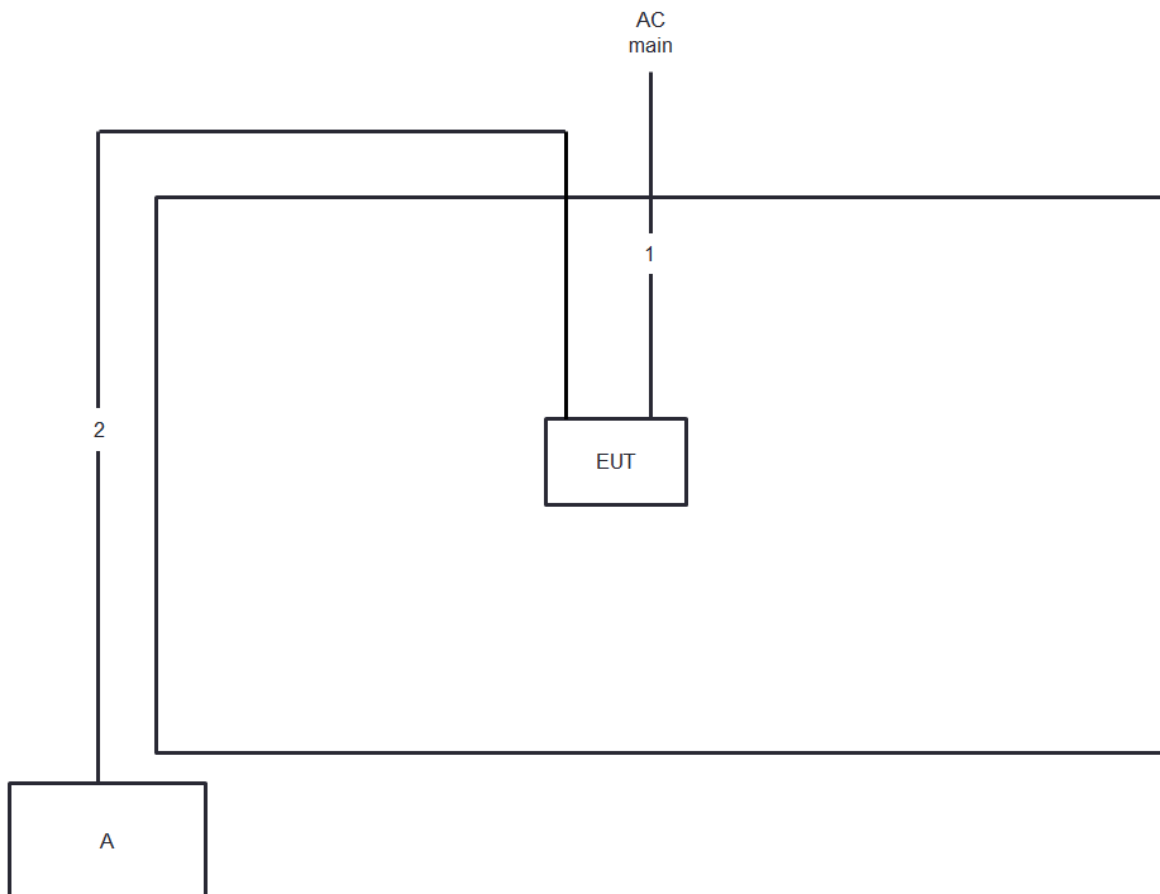
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated <1GHz Test


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

Test Setup Diagram - Radiated >1GHzTest


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
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.

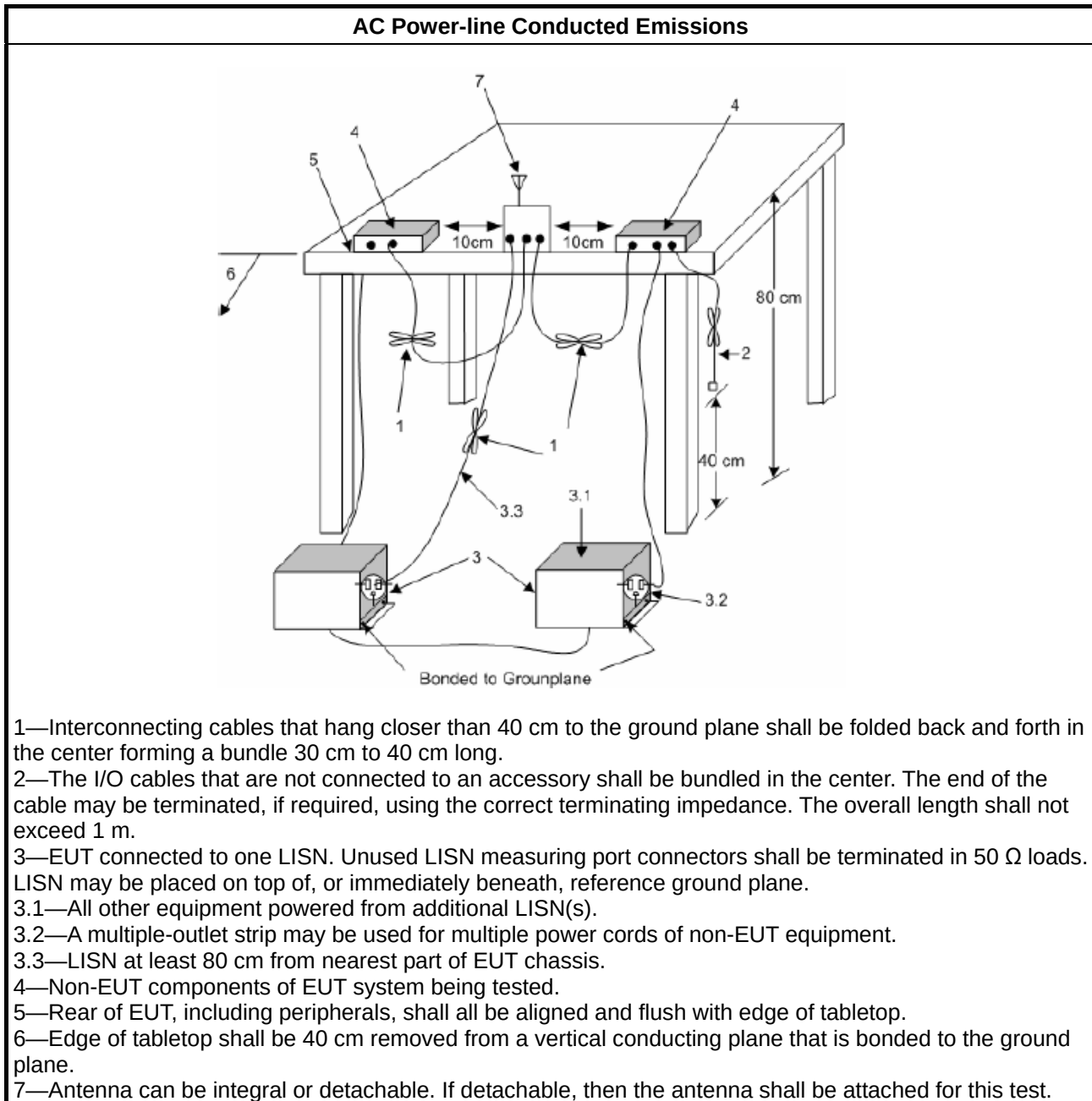
3.1.2 Measuring Instruments

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



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- 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 $\geq$ 500 kHz.

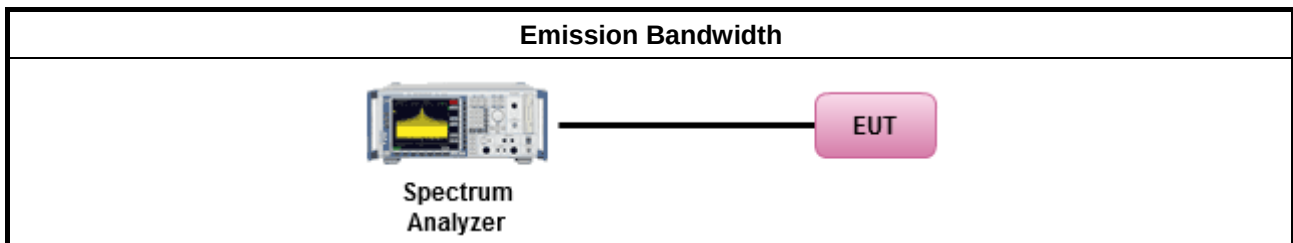
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	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



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.	

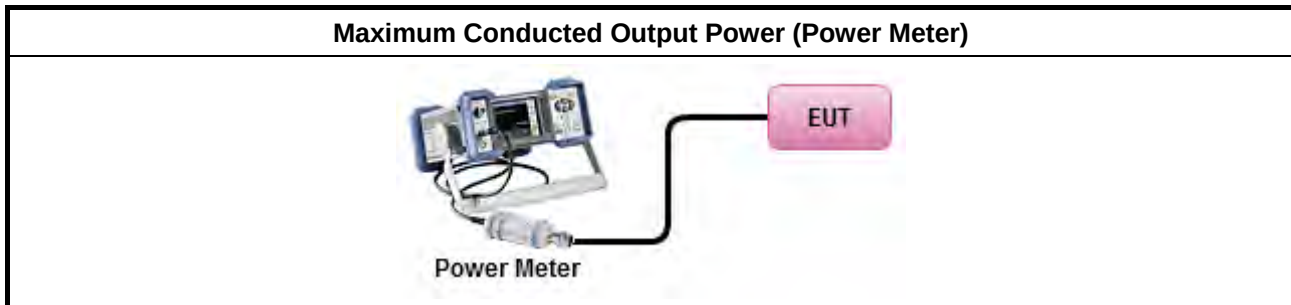
3.3.2 Measuring Instruments

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: $P_{total} = P_1 + P_2 + \dots + P_n$ (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
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

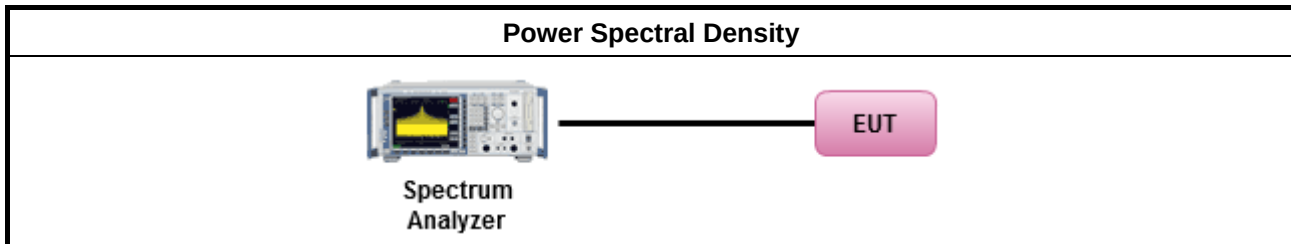
3.4.2 Measuring Instruments

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



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.	

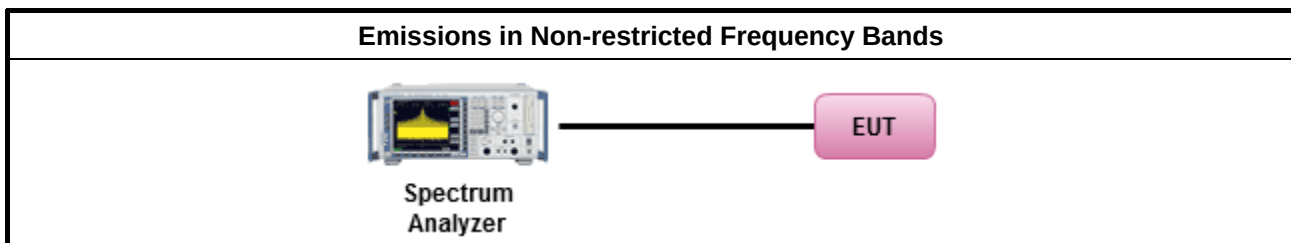
3.5.2 Measuring Instruments

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



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.

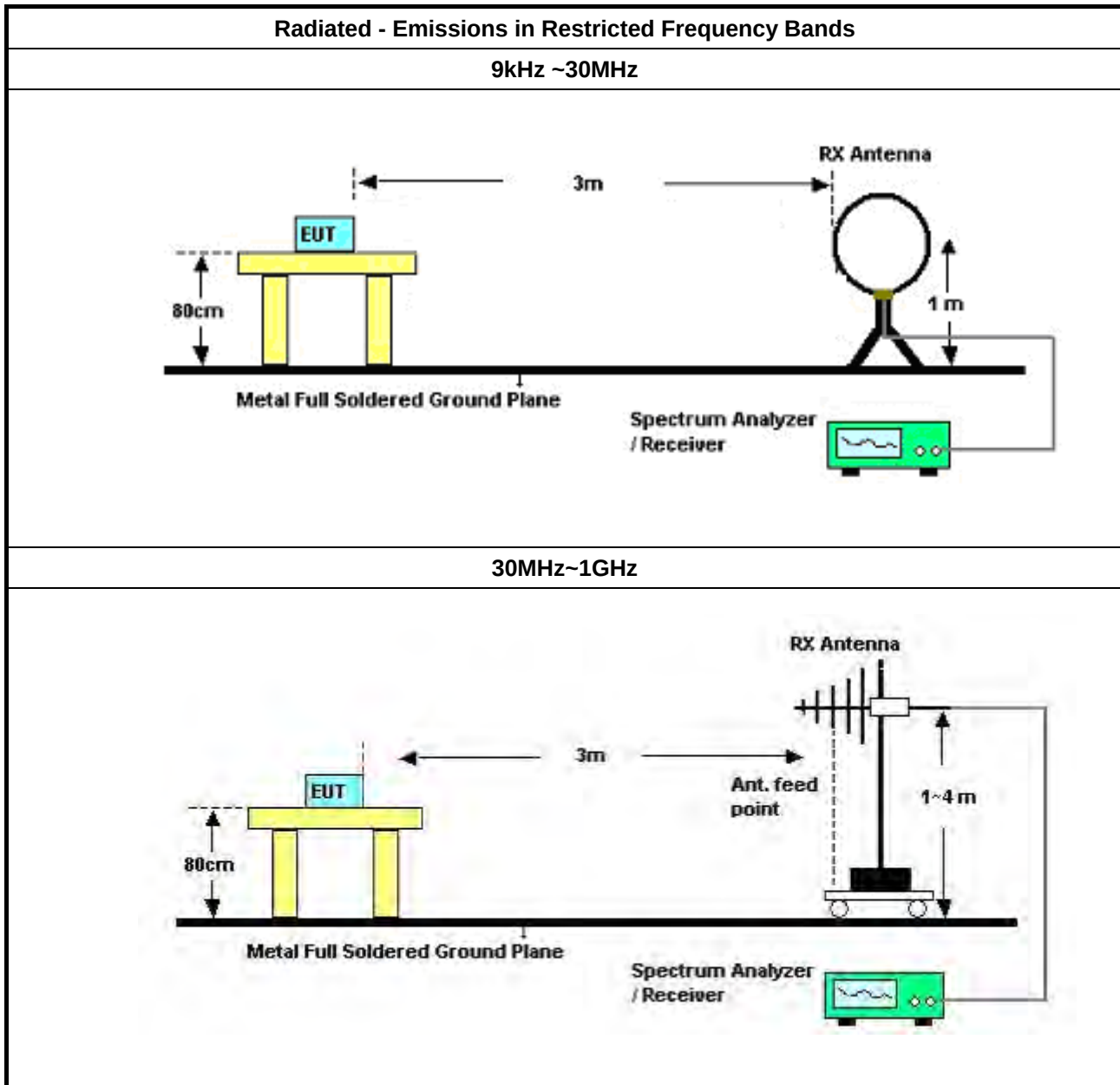
3.6.2 Measuring Instruments

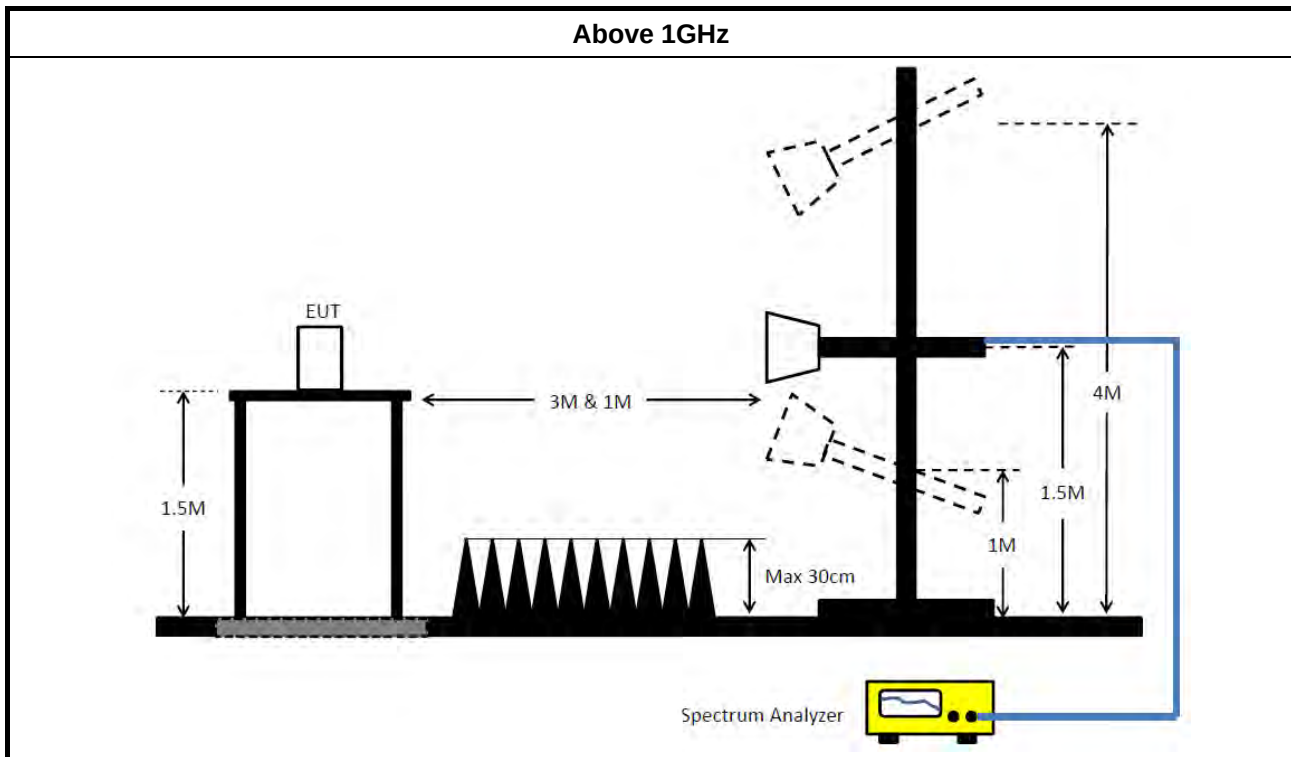
Refer a test equipment and calibration data table in this test report.

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 $\geq 98\%$).
	☐ 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 $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, 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





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 20, 2020	Nov. 19, 2021	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 31, 2020	Jan. 30, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 10, 2020	Aug. 09, 2021	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Aug. 02, 2020	Aug. 01, 2021	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 05, 2020	Nov. 04, 2021	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	May 12, 2020	May 11, 2021	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-05+24	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 29, 2020	May 28, 2021	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2020	Nov. 05, 2021	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2020	Jan. 07, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 07, 2021	Jan. 06, 2022	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Apr. 16, 2020	Apr. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 27, 2020	Jul. 26, 2021	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	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.

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



Conducted Emissions at Powerline

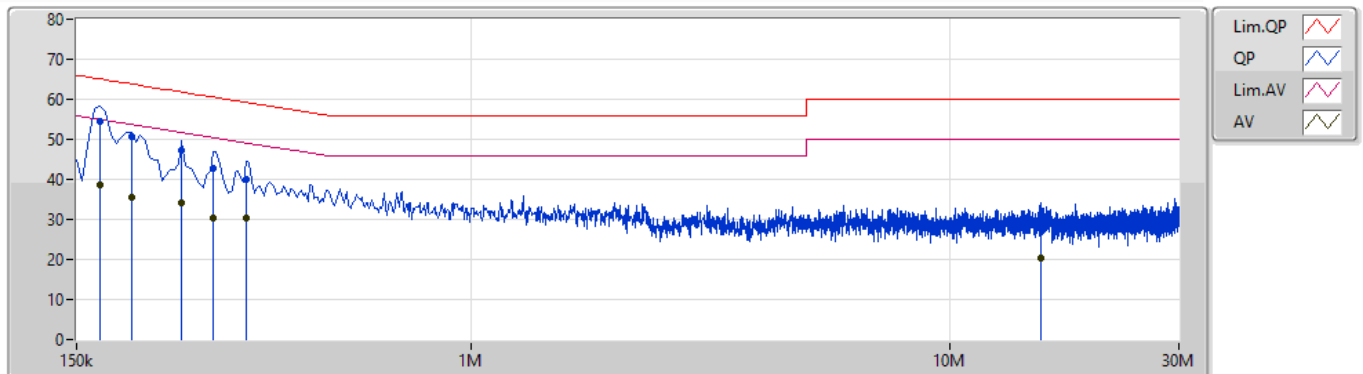
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	168k	54.59	65.06	-10.47	Line

Mode 1

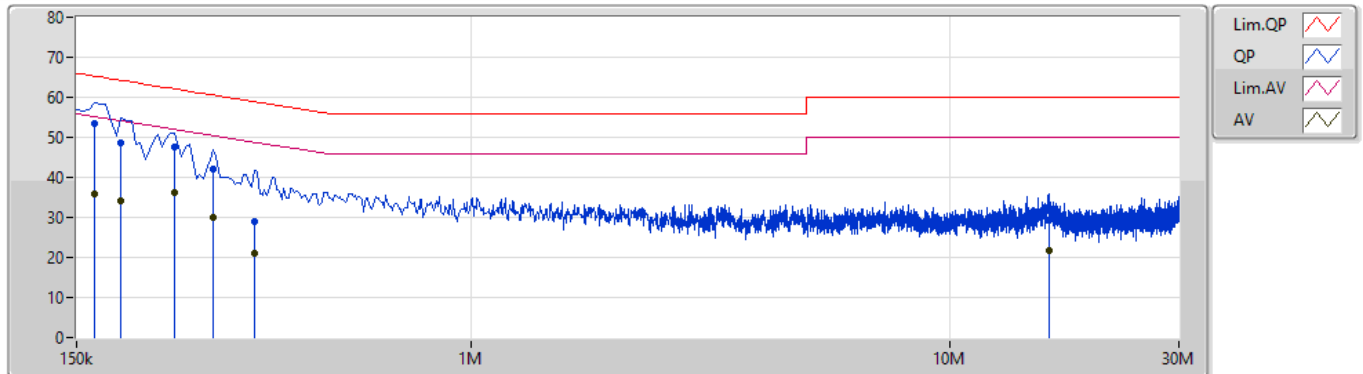
11/01/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	168k	54.59	65.06	-10.47	9.89	Line	"Worst"	44.70	0.05	0.03	9.81			
AV	168k	38.77	55.06	-16.29	9.89	Line	-	28.88	0.05	0.03	9.81			
QP	195k	50.57	63.82	-13.25	9.89	Line	-	40.68	0.04	0.03	9.82			
AV	195k	35.45	53.82	-18.37	9.89	Line	-	25.56	0.04	0.03	9.82			
QP	249k	47.23	61.79	-14.56	9.89	Line	-	37.34	0.04	0.03	9.82			
AV	249k	34.12	51.79	-17.67	9.89	Line	-	24.23	0.04	0.03	9.82			
QP	289.5k	42.60	60.53	-17.93	9.90	Line	-	32.70	0.04	0.03	9.83			
AV	289.5k	30.28	50.53	-20.25	9.90	Line	-	20.38	0.04	0.03	9.83			
QP	339k	40.01	59.23	-19.22	9.90	Line	-	30.11	0.04	0.03	9.83			
AV	339k	30.21	49.23	-19.02	9.90	Line	-	20.31	0.04	0.03	9.83			
QP	15.41M	27.71	60.00	-32.29	10.37	Line	-	17.34	0.21	0.24	9.92			
AV	15.41M	20.34	50.00	-29.66	10.37	Line	-	9.97	0.21	0.24	9.92			

Mode 1

11/01/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	163.5k	53.47	65.27	-11.80	9.88	Neutral	"Worst"	43.59	0.04	0.03	9.81			
AV	163.5k	35.81	55.27	-19.46	9.88	Neutral	-	25.93	0.04	0.03	9.81			
QP	186k	48.49	64.20	-15.71	9.89	Neutral	-	38.60	0.04	0.03	9.82			
AV	186k	34.19	54.20	-20.01	9.89	Neutral	-	24.30	0.04	0.03	9.82			
QP	240k	47.53	62.10	-14.57	9.89	Neutral	-	37.64	0.04	0.03	9.82			
AV	240k	36.16	52.10	-15.94	9.89	Neutral	-	26.27	0.04	0.03	9.82			
QP	289.5k	41.98	60.53	-18.55	9.90	Neutral	-	32.08	0.04	0.03	9.83			
AV	289.5k	29.84	50.53	-20.69	9.90	Neutral	-	19.94	0.04	0.03	9.83			
QP	352.5k	28.95	58.91	-29.96	9.90	Neutral	-	19.05	0.04	0.03	9.83			
AV	352.5k	20.91	48.91	-28.00	9.90	Neutral	-	11.01	0.04	0.03	9.83			
QP	16.053M	29.22	60.00	-30.78	10.38	Neutral	-	18.84	0.20	0.25	9.93			
AV	16.053M	21.85	50.00	-28.15	10.38	Neutral	-	11.47	0.20	0.25	9.93			

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)_1TX	7.55M	10.245M	10M2G1D	7.075M	10.195M
802.11g_Nss1,(6Mbps)_3TX	16.35M	16.717M	16M7D1D	16.3M	16.567M
802.11n HT20_Nss1,(MCS0)_3TX	17.575M	17.816M	17M8D1D	17.05M	17.741M
802.11n HT40_Nss1,(MCS0)_3TX	35.7M	36.782M	36M8D1D	35.3M	36.332M

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

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

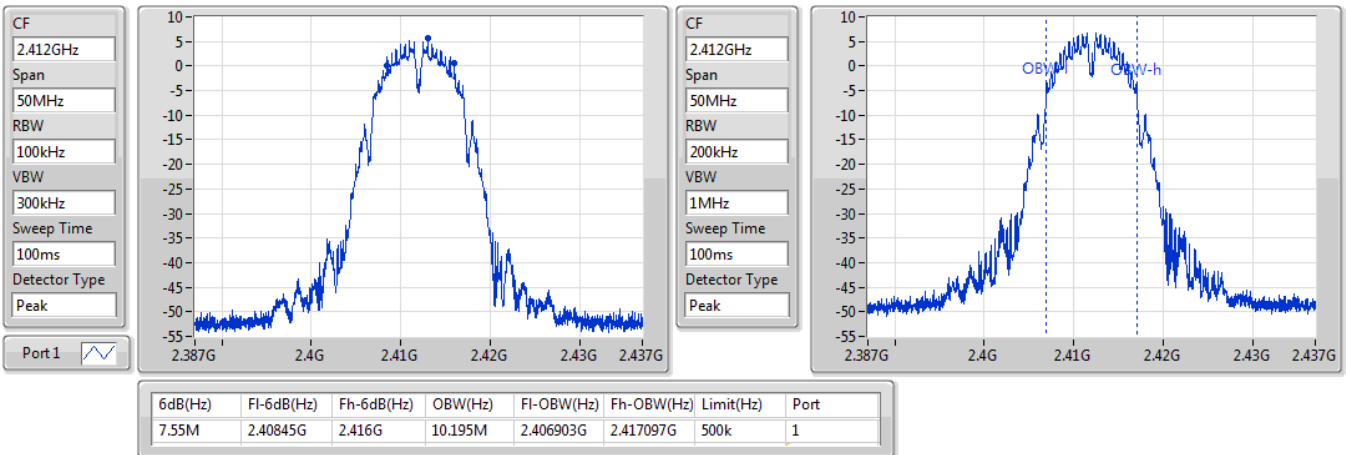
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	7.55M	10.195M				
2437MHz	Pass	500k	7.075M	10.22M				
2462MHz	Pass	500k	7.075M	10.245M				
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.3M	16.617M	16.325M	16.567M	16.325M	16.617M
2437MHz	Pass	500k	16.3M	16.692M	16.35M	16.642M	16.325M	16.617M
2462MHz	Pass	500k	16.3M	16.717M	16.35M	16.617M	16.325M	16.567M
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	17.275M	17.791M	17.55M	17.766M	17.55M	17.741M
2437MHz	Pass	500k	17.05M	17.816M	17.525M	17.766M	17.55M	17.766M
2462MHz	Pass	500k	17.525M	17.816M	17.575M	17.766M	17.55M	17.741M
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	35.35M	36.782M	35.45M	36.582M	35.35M	36.332M
2437MHz	Pass	500k	35.55M	36.782M	35.65M	36.582M	35.3M	36.332M
2452MHz	Pass	500k	35.7M	36.732M	35.7M	36.582M	35.35M	36.332M

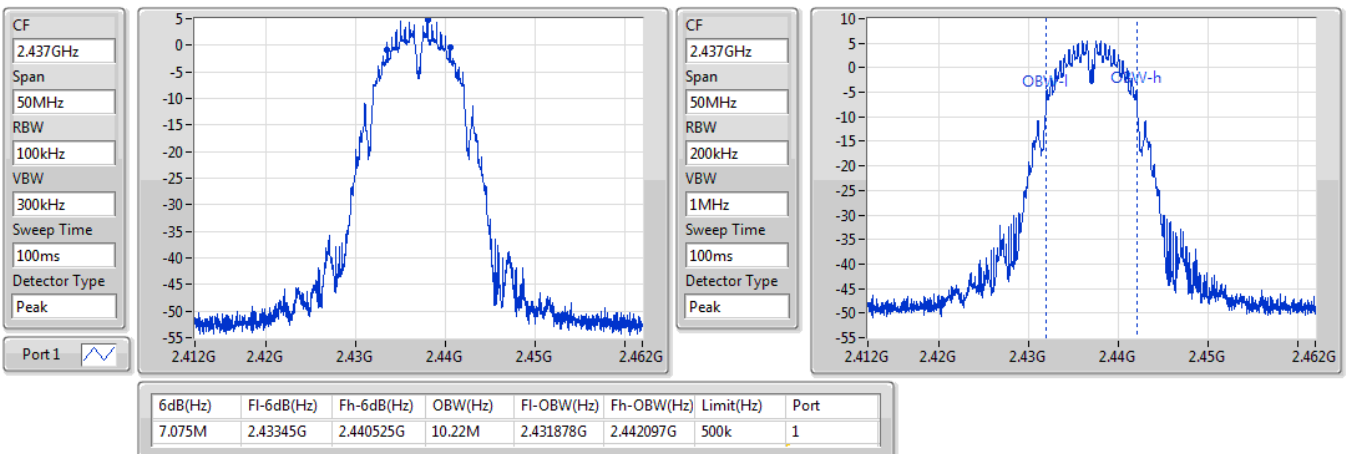
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

04/12/2020


802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

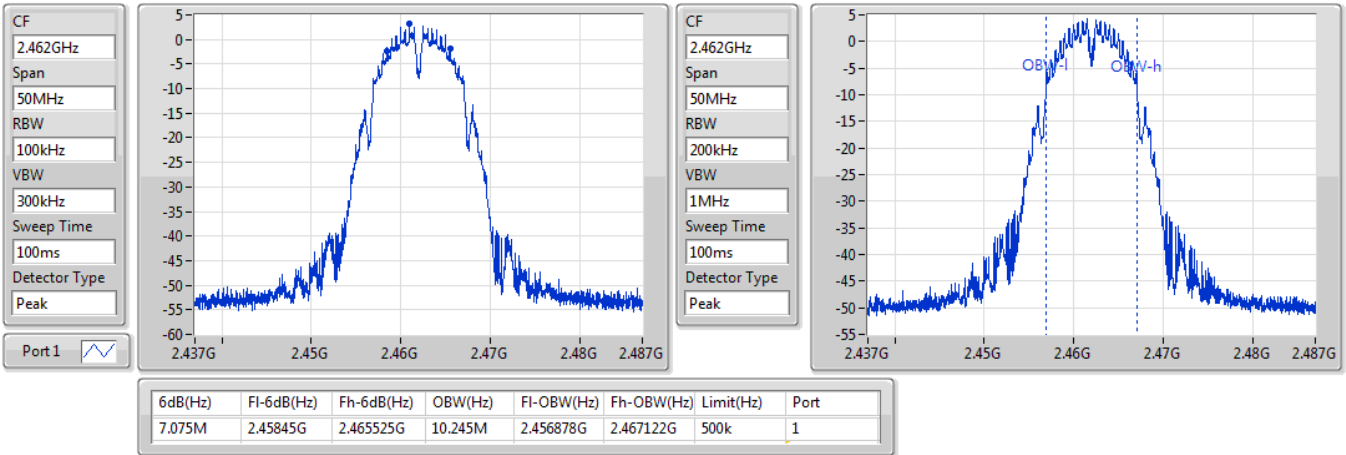
04/12/2020



802.11b_Nss1,(1Mbps)_1TX

EBW
2462MHz

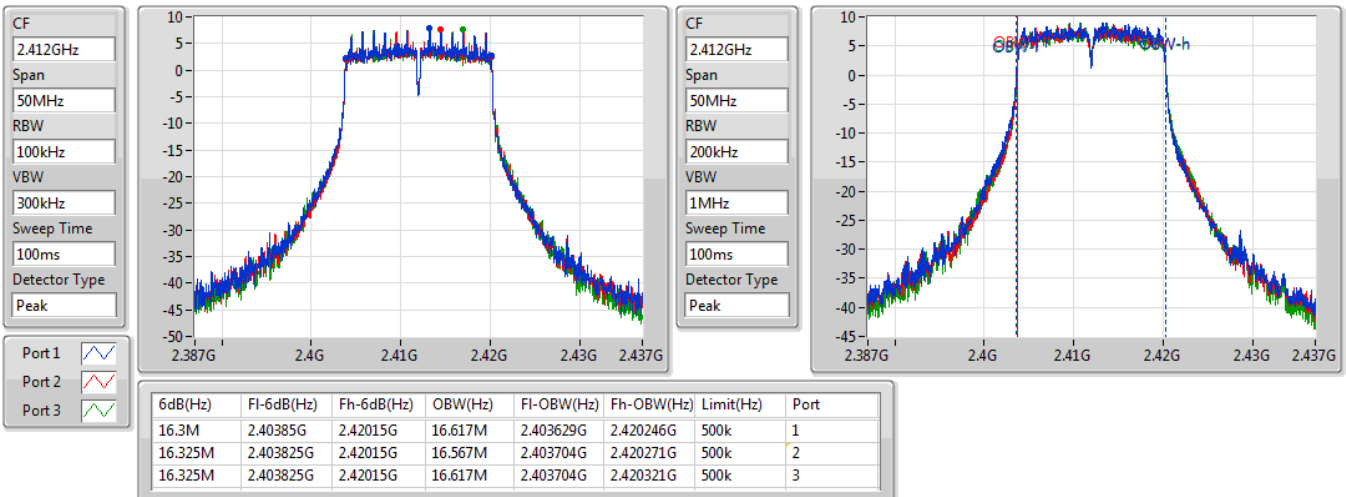
04/12/2020



802.11g_Nss1,(6Mbps)_3TX

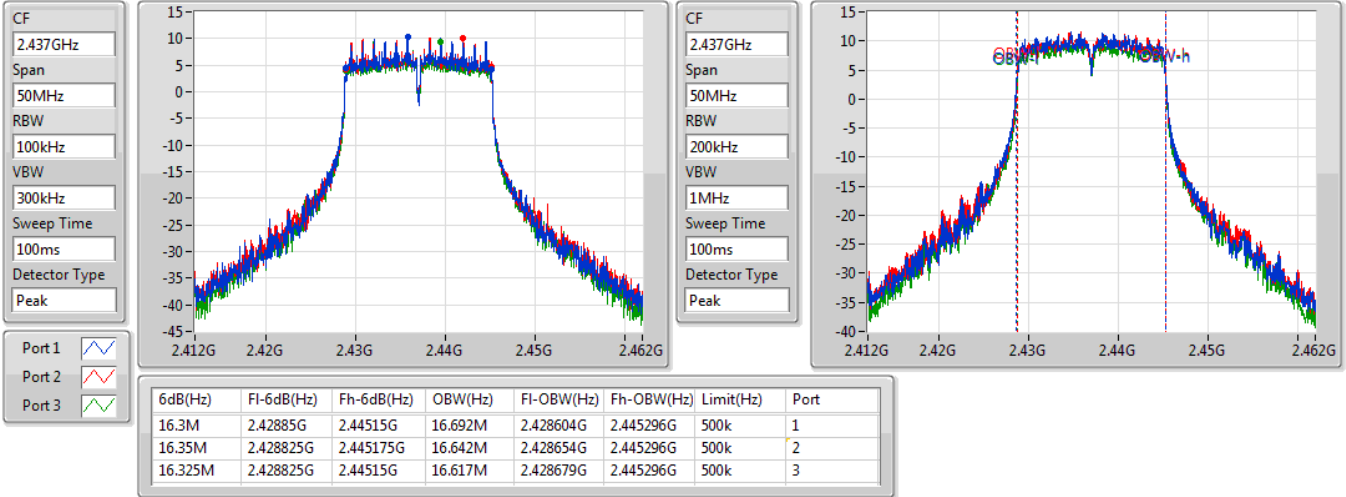
EBW
2412MHz

04/12/2020

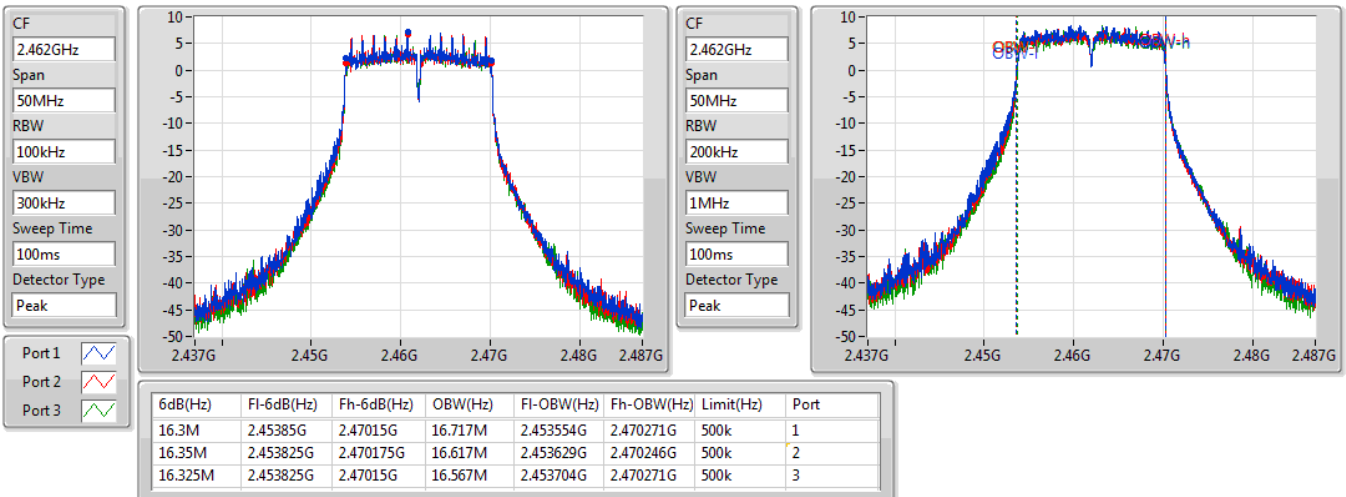


802.11g_Nss1,(6Mbps)_3TX
EBW
2437MHz

04/12/2020

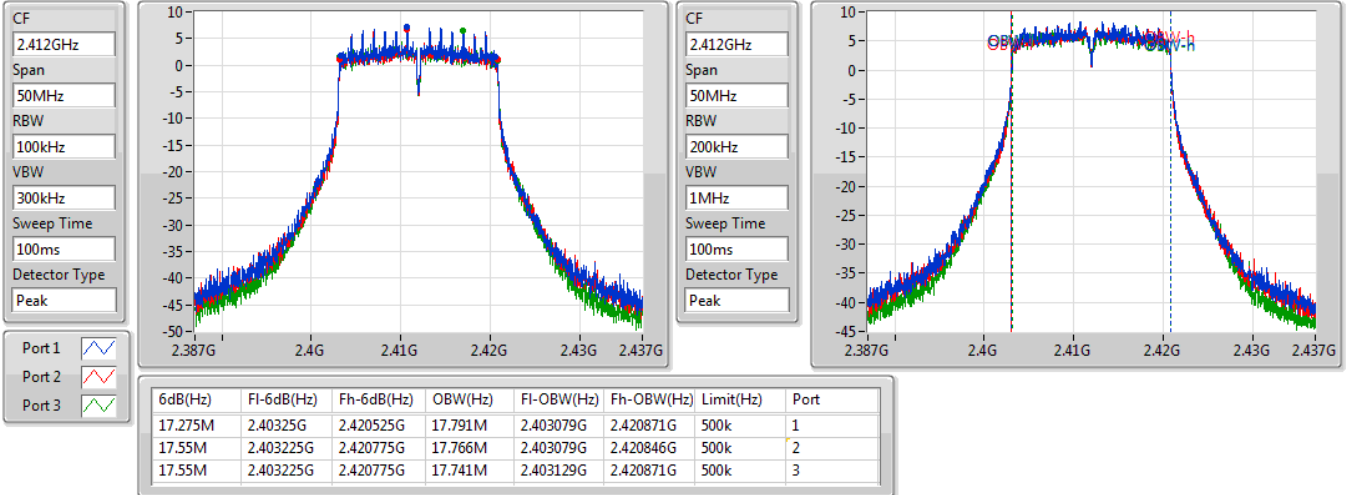

802.11g_Nss1,(6Mbps)_3TX
EBW
2462MHz

04/12/2020

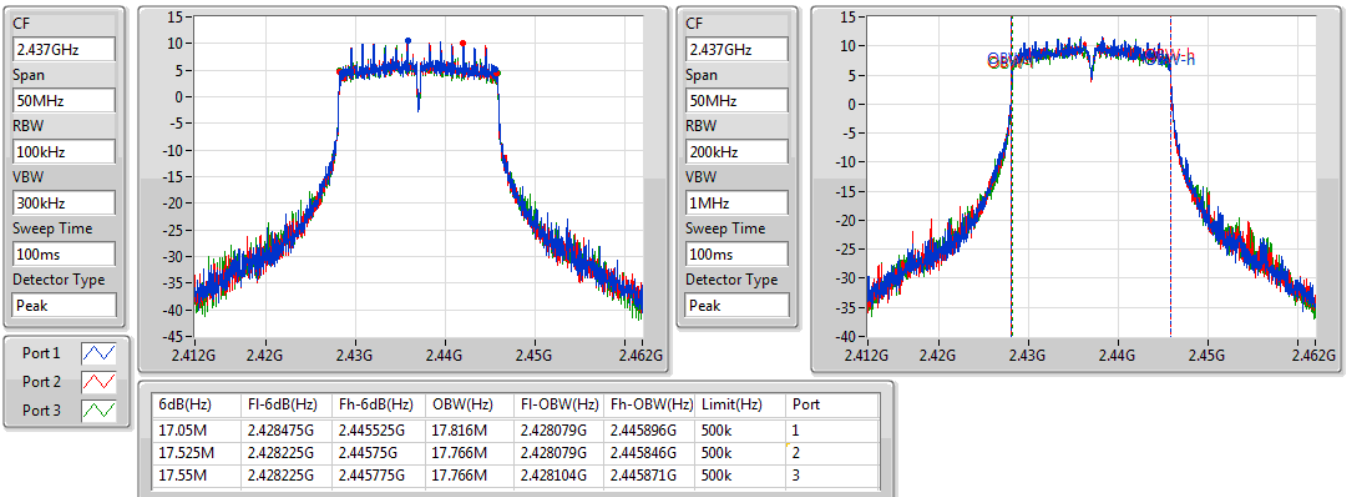


802.11n HT20_Nss1,(MCS0)_3TX
EBW
2412MHz

04/12/2020

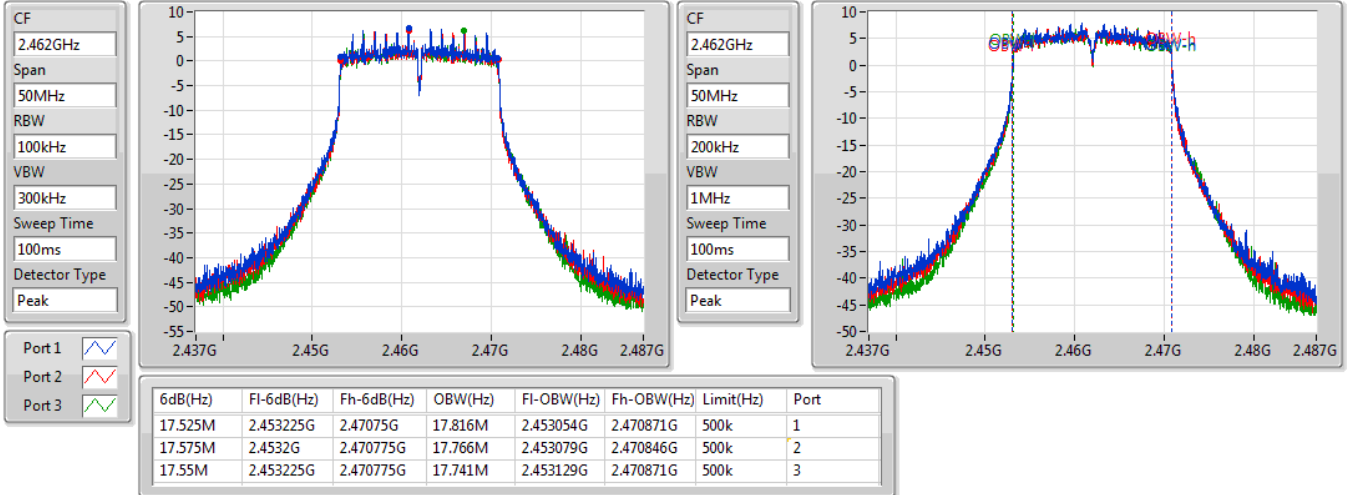

802.11n HT20_Nss1,(MCS0)_3TX
EBW
2437MHz

04/12/2020

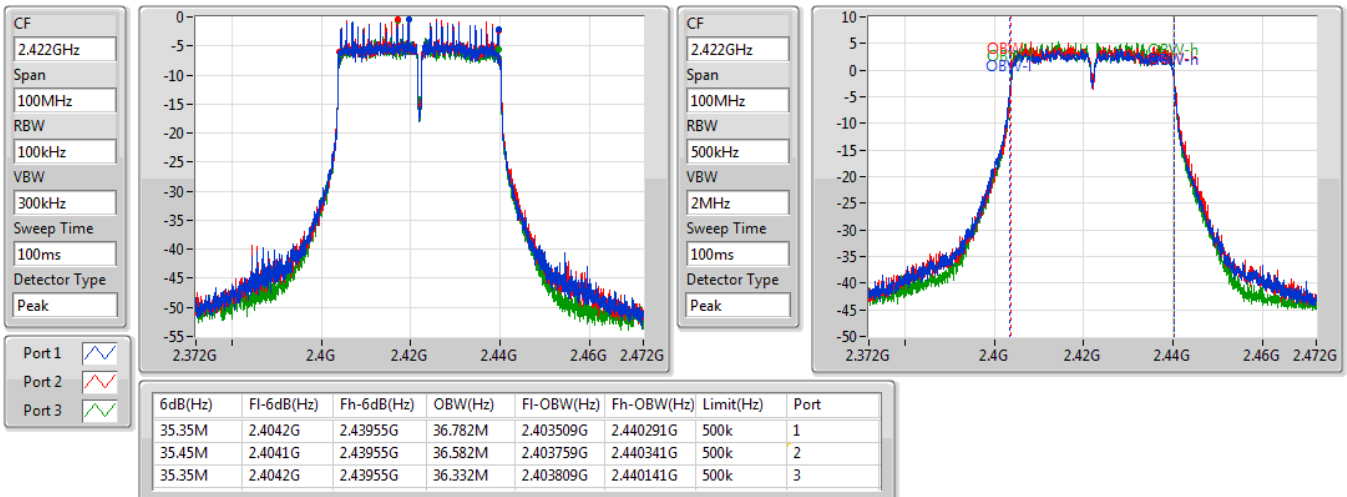


802.11n HT20_Nss1,(MCS0)_3TX
EBW
2462MHz

04/12/2020

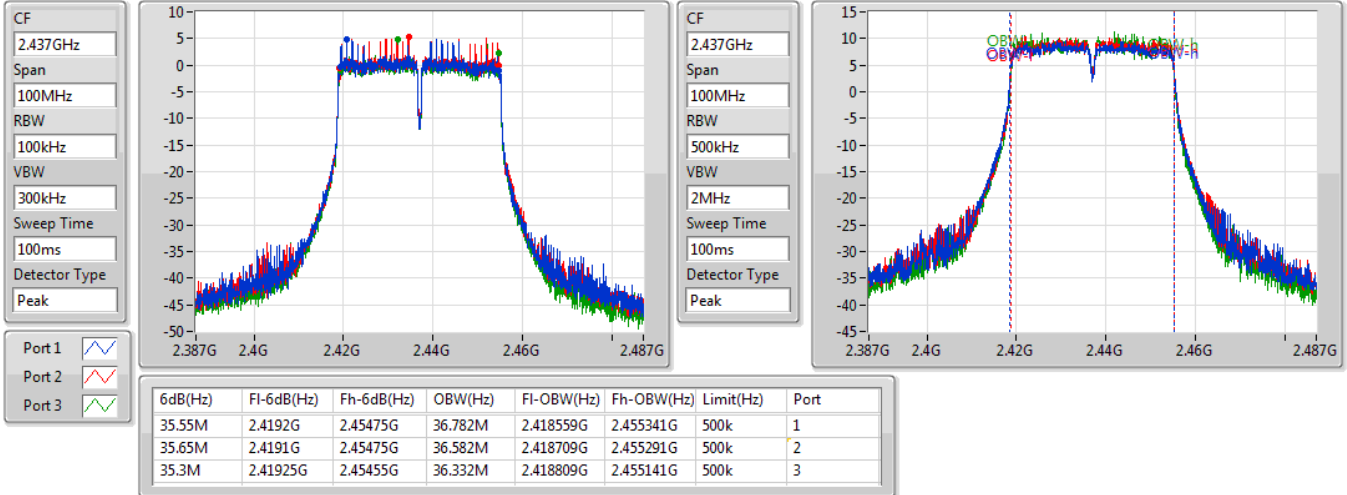

802.11n HT40_Nss1,(MCS0)_3TX
EBW
2422MHz

04/12/2020

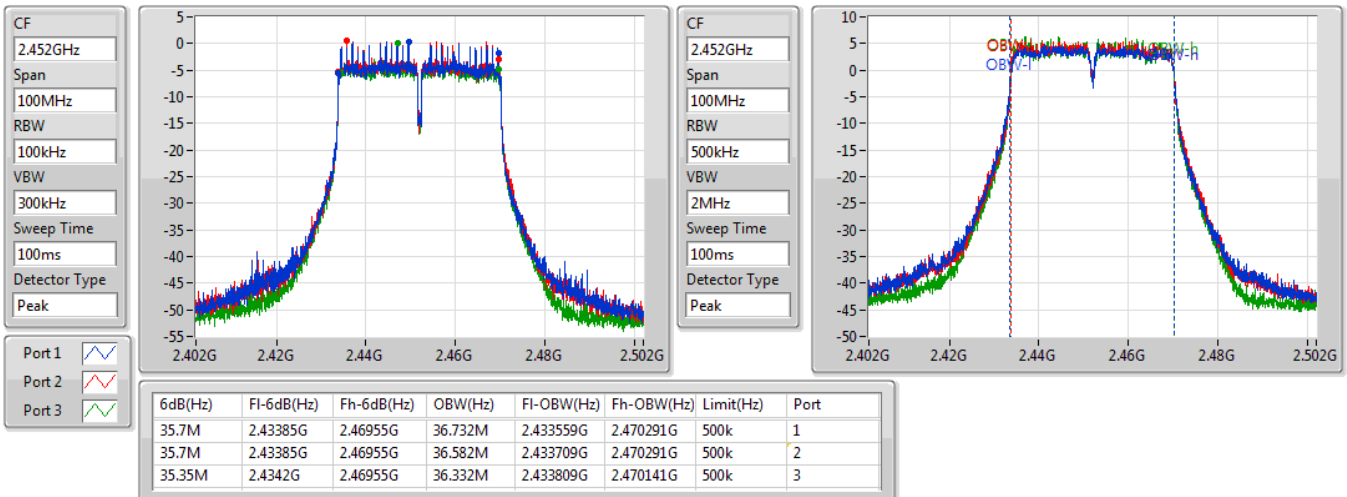


802.11n HT40_Nss1,(MCS0)_3TX
EBW
2437MHz

04/12/2020


802.11n HT40_Nss1,(MCS0)_3TX
EBW
2452MHz

04/12/2020





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	14.54	0.02844
802.11g_Nss1,(6Mbps)_3TX	26.20	0.41687
802.11n HT20_Nss1,(MCS0)_3TX	26.24	0.42073
802.11n HT40_Nss1,(MCS0)_3TX	23.80	0.23988

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	3.30	14.54	-	-	14.54	30.00
2417MHz	-	-	-	-	-	-	-
2437MHz	Pass	3.30	13.32	-	-	13.32	30.00
2457MHz	-	-	-	-	-	-	-
2462MHz	Pass	3.30	12.05	-	-	12.05	30.00
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	3.30	19.27	19.20	19.11	23.97	30.00
2417MHz	-	-	-	-	-	-	-
2437MHz	Pass	3.30	21.63	21.51	21.13	26.20	30.00
2457MHz	Pass	3.30	20.39	20.59	20.25	25.18	30.00
2462MHz	Pass	3.30	18.75	18.49	18.33	23.30	30.00
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	3.30	18.43	18.35	18.22	23.11	30.00
2417MHz	Pass	3.30	20.44	20.45	20.18	25.13	30.00
2437MHz	Pass	3.30	21.49	21.61	21.29	26.24	30.00
2457MHz	Pass	3.30	18.67	18.63	18.29	23.30	30.00
2462MHz	Pass	3.30	17.82	17.69	17.57	22.47	30.00
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	3.30	13.58	13.83	13.44	18.39	30.00
2427MHz	Pass	3.30	17.73	17.49	17.36	22.30	30.00
2437MHz	Pass	3.30	19.02	19.25	18.82	23.80	30.00
2447MHz	Pass	3.30	16.41	16.10	16.02	20.95	30.00
2452MHz	Pass	3.30	14.40	14.66	14.07	19.15	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-11.00
802.11g_Nss1,(6Mbps)_3TX	-0.52
802.11n HT20_Nss1,(MCS0)_3TX	-2.02
802.11n HT40_Nss1,(MCS0)_3TX	-6.29

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)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	3.30	-11.00	-	-	-11.00	8.00
2437MHz	Pass	3.30	-11.30	-	-	-11.30	8.00
2462MHz	Pass	3.30	-11.60	-	-	-11.60	8.00
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	7.71	-6.99	-6.75	-6.26	-1.91	6.29
2437MHz	Pass	7.71	-4.58	-4.95	-5.38	-0.52	6.29
2462MHz	Pass	7.71	-8.17	-7.85	-8.07	-3.93	6.29
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	7.71	-8.26	-8.20	-8.22	-4.82	6.29
2437MHz	Pass	7.71	-5.53	-4.82	-5.42	-2.02	6.29
2462MHz	Pass	7.71	-8.76	-8.87	-9.24	-5.71	6.29
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	7.71	-15.80	-15.21	-15.33	-11.93	6.29
2437MHz	Pass	7.71	-10.03	-9.12	-9.63	-6.29	6.29
2452MHz	Pass	7.71	-13.26	-14.74	-14.62	-11.23	6.29

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

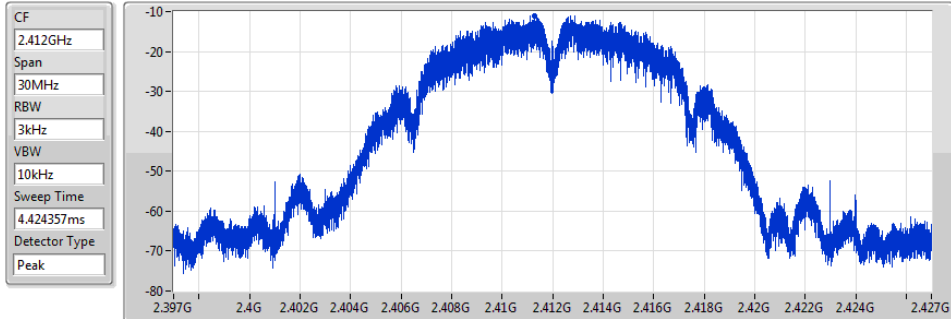
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

04/12/2020



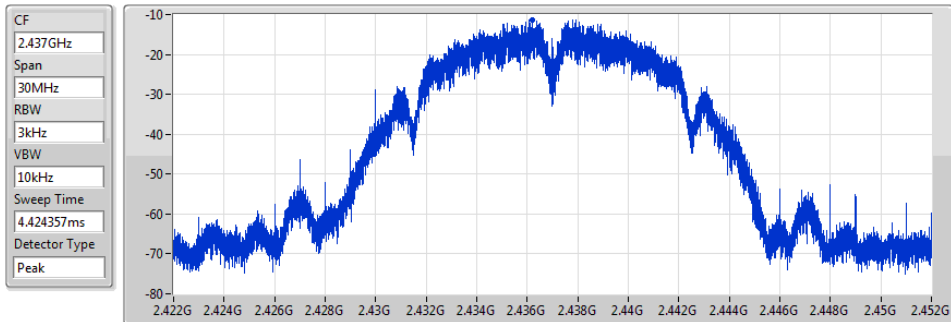
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
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802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

04/12/2020



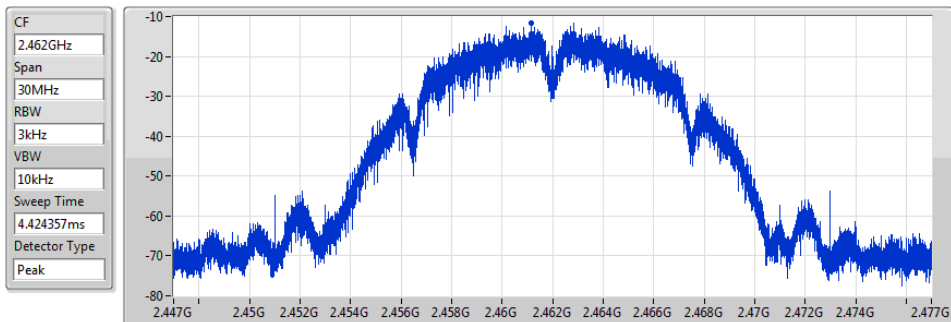
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.30	-11.30	-11.30

802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

04/12/2020



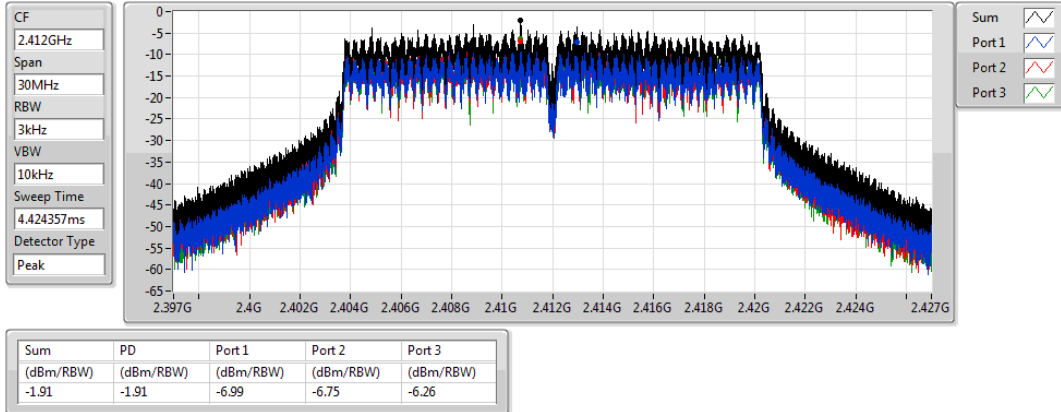
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.60	-11.60	-11.60

802.11g_Nss1,(6Mbps)_3TX

PSD

2412MHz

04/12/2020

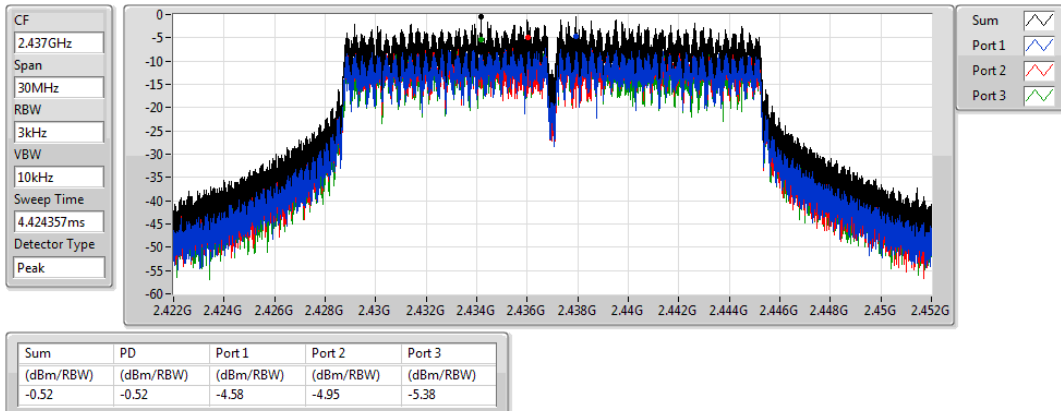


802.11g_Nss1,(6Mbps)_3TX

PSD

2437MHz

04/12/2020

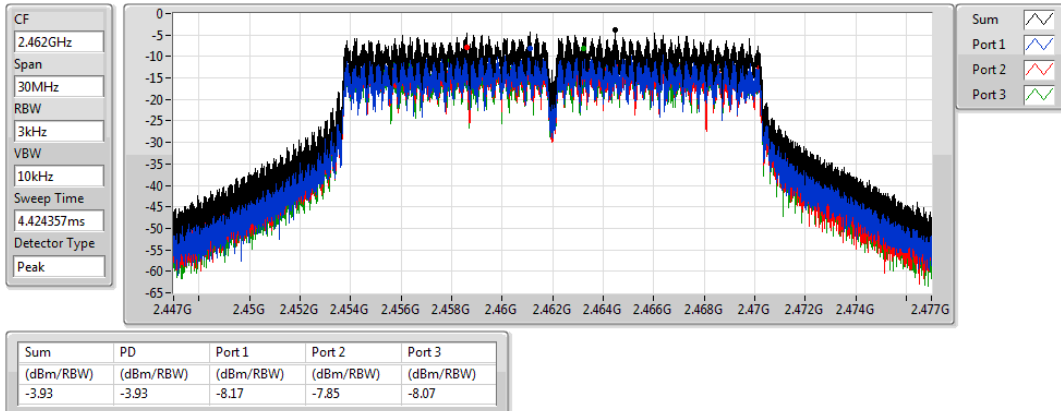


802.11g_Nss1,(6Mbps)_3TX

PSD

2462MHz

04/12/2020

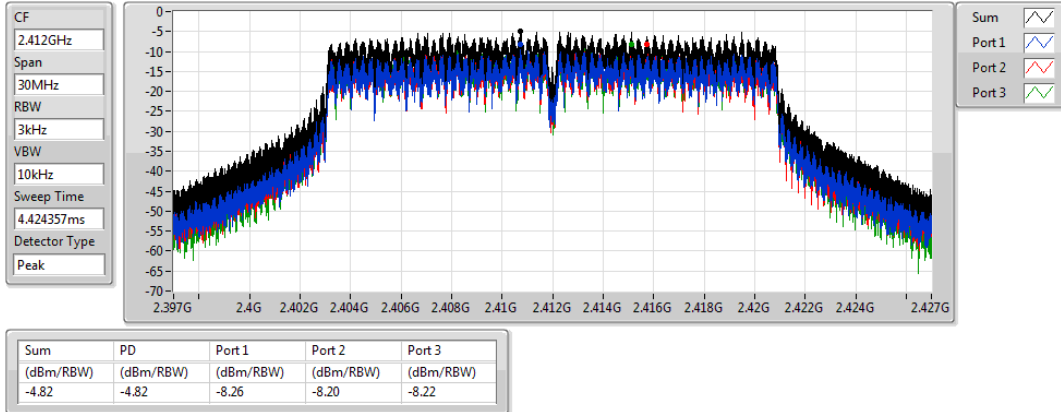


802.11n HT20_Nss1,(MCS0)_3TX

PSD

2412MHz

04/12/2020

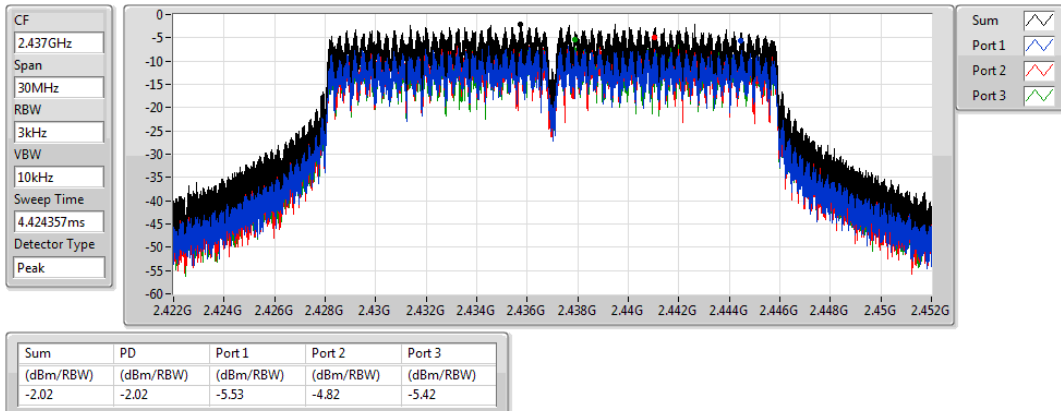


802.11n HT20_Nss1,(MCS0)_3TX

PSD

2437MHz

04/12/2020

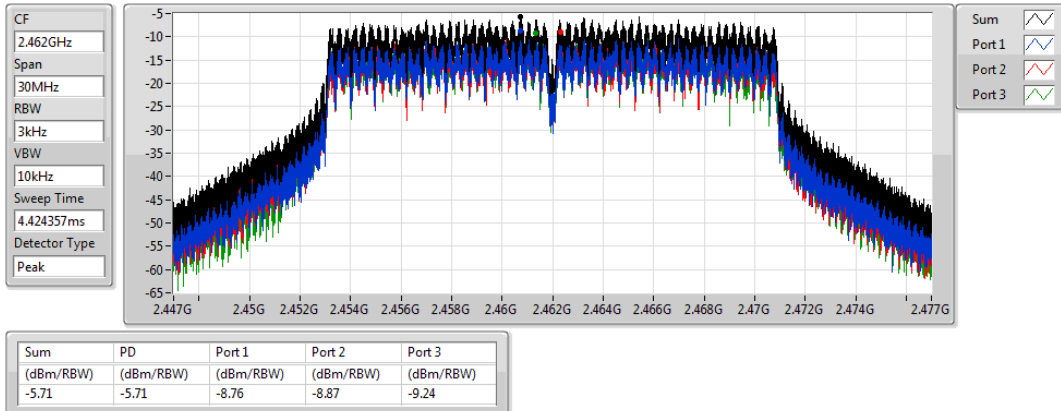


802.11n HT20_Nss1,(MCS0)_3TX

PSD

2462MHz

04/12/2020

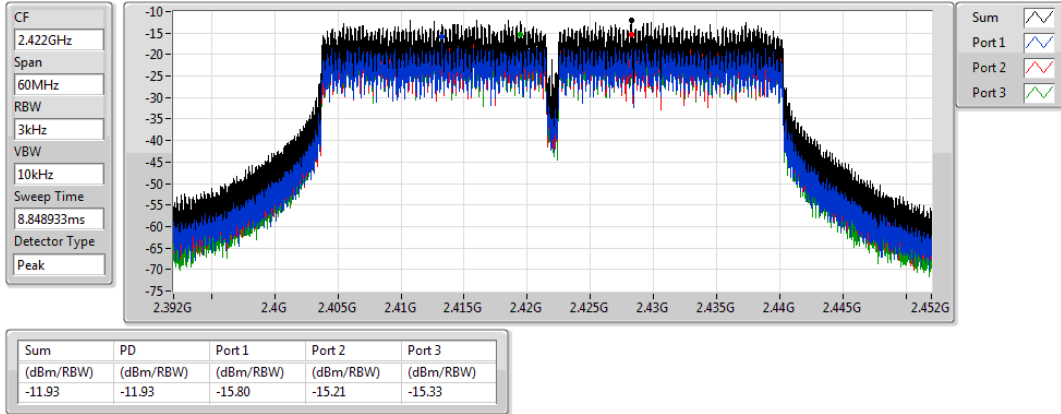


802.11n HT40_Nss1,(MCS0)_3TX

PSD

2422MHz

04/12/2020

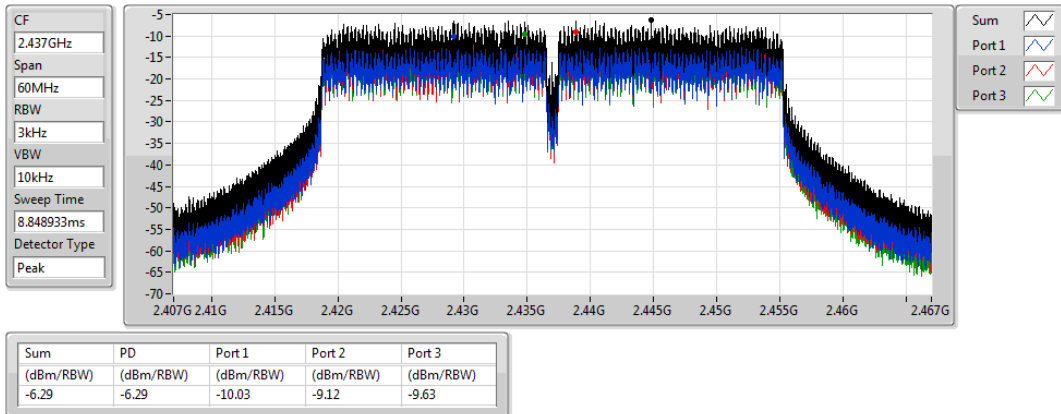


802.11n HT40_Nss1,(MCS0)_3TX

PSD

2437MHz

04/12/2020

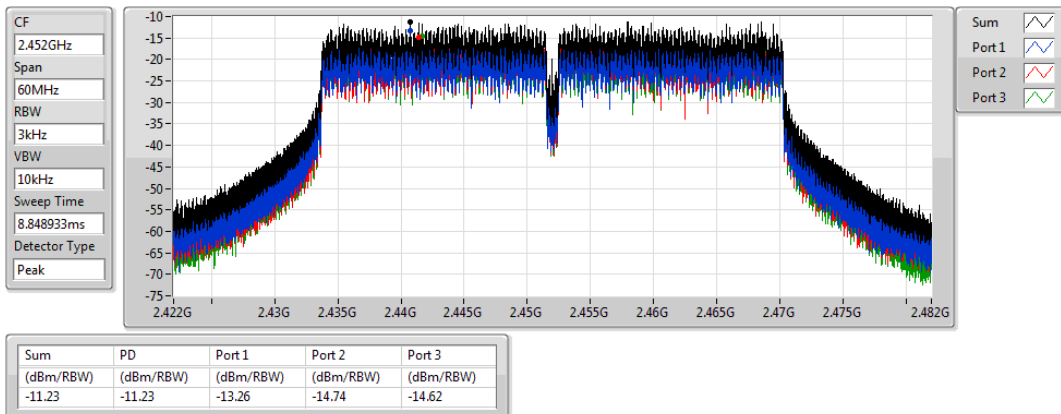


802.11n HT40_Nss1,(MCS0)_3TX

PSD

2452MHz

04/12/2020





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)_1TX	Pass	2.41148G	5.08	-24.92	159.9M	-51.94	2.39848G	-42.46	2.4G	-46.06	2.50728G	-49.57	24.98595G	-43.47	1
802.11g_Nss1,(6Mbps)_3TX	Pass	2.43574G	10.72	-19.28	2.30379G	-48.36	2.39956G	-23.78	2.4G	-23.88	2.50802G	-46.04	23.40417G	-43.13	3
802.11n HT20_Nss1,(MCS0)_3TX	Pass	2.43574G	10.35	-19.65	2.3035G	-50.46	2.39984G	-23.96	2.4G	-22.90	2.49334G	-46.20	16.59379G	-43.63	1
802.11n HT40_Nss1,(MCS0)_3TX	Pass	2.43198G	5.28	-24.72	2.30483G	-49.19	2.39892G	-36.63	2.4G	-41.41	2.48486G	-41.87	24.57651G	-43.01	1

Result

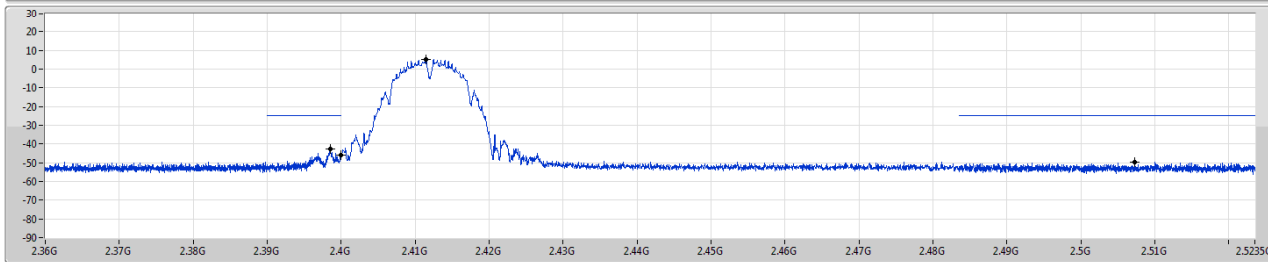
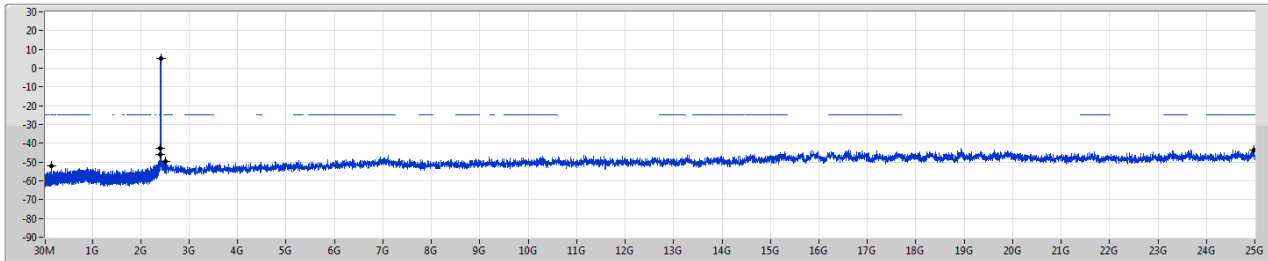
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41148G	5.08	-24.92	159.9M	-51.94	2.39848G	-42.46	2.4G	-46.06	2.50728G	-49.57	24.98595G	-43.47	1
2437MHz	Pass	2.41148G	5.08	-24.92	159.9M	-51.14	2.39542G	-49.79	2.4835G	-51.45	2.48796G	-49.52	24.78085G	-43.80	1
2462MHz	Pass	2.41148G	5.08	-24.92	159.9M	-47.89	2.39124G	-50.05	2.4835G	-52.43	2.4956G	-49.85	24.92414G	-43.24	1
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	10.72	-19.28	2.30408G	-50.56	2.3999G	-24.14	2.4G	-25.14	2.50284G	-46.72	21.66786G	-43.90	1
2412MHz	Pass	2.43574G	10.72	-19.28	2.30525G	-48.36	2.39998G	-24.49	2.4G	-25.96	2.48526G	-46.54	16.27069G	-43.61	2
2412MHz	Pass	2.43574G	10.72	-19.28	2.30379G	-48.36	2.39956G	-23.78	2.4G	-23.88	2.50802G	-46.04	23.40417G	-43.13	3
2437MHz	Pass	2.43574G	10.72	-19.28	2.30787G	-50.32	2.39814G	-44.95	2.4G	-46.83	2.5217G	-47.14	16.61908G	-43.22	1
2437MHz	Pass	2.43574G	10.72	-19.28	2.3035G	-51.01	2.39944G	-45.01	2.4G	-47.47	2.48498G	-46.38	17.6249G	-43.68	2
2437MHz	Pass	2.43574G	10.72	-19.28	2.30437G	-48.24	2.3998G	-44.71	2.4G	-47.51	2.48724G	-45.81	16.31564G	-43.08	3
2462MHz	Pass	2.43574G	10.72	-19.28	2.30466G	-47.92	2.39858G	-47.15	2.4835G	-43.19	2.48354G	-41.81	24.71342G	-42.90	1
2462MHz	Pass	2.43574G	10.72	-19.28	2.30961G	-49.86	2.39174G	-46.80	2.4835G	-43.85	2.48442G	-41.89	24.92133G	-43.14	2
2462MHz	Pass	2.43574G	10.72	-19.28	2.3G	-48.49	2.39344G	-46.18	2.4835G	-44.71	2.48444G	-43.02	24.57014G	-43.34	3
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	10.35	-19.65	2.3035G	-50.46	2.39984G	-23.96	2.4G	-22.90	2.49334G	-46.20	16.59379G	-43.63	1
2412MHz	Pass	2.43574G	10.35	-19.65	2.30991G	-49.37	2.39986G	-23.73	2.4G	-25.50	2.49998G	-46.32	24.97471G	-43.21	2
2412MHz	Pass	2.43574G	10.35	-19.65	2.30787G	-48.02	2.3997G	-25.23	2.4G	-25.56	2.5223G	-47.60	16.23136G	-43.06	3
2437MHz	Pass	2.43574G	10.35	-19.65	159.9M	-50.31	2.39888G	-43.20	2.4G	-46.30	2.50844G	-46.48	21.68472G	-43.48	1
2437MHz	Pass	2.43574G	10.35	-19.65	159.9M	-50.31	2.39918G	-42.92	2.4G	-47.67	2.48762G	-46.82	17.2147G	-43.11	2
2437MHz	Pass	2.43574G	10.35	-19.65	2.30699G	-48.03	2.39958G	-44.25	2.4G	-47.83	2.48882G	-47.14	16.87755G	-43.37	3
2462MHz	Pass	2.43574G	10.35	-19.65	2.3035G	-49.49	2.39584G	-47.09	2.4835G	-45.62	2.48392G	-42.89	23.31145G	-42.95	1
2462MHz	Pass	2.43574G	10.35	-19.65	159.9M	-48.43	2.39718G	-48.25	2.4835G	-45.23	2.48354G	-44.17	21.62291G	-42.30	2
2462MHz	Pass	2.43574G	10.35	-19.65	159.9M	-49.71	2.397G	-46.80	2.4835G	-48.05	2.48454G	-44.96	17.67266G	-43.58	3
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	5.28	-24.72	159.96M	-51.14	2.3998G	-50.57	2.4G	-51.07	2.4865G	-50.66	16.86677G	-43.63	1
2422MHz	Pass	2.43198G	5.28	-24.72	159.96M	-52.62	2.39976G	-50.52	2.4G	-53.25	2.55838G	-51.82	24.38861G	-42.91	2
2422MHz	Pass	2.43198G	5.28	-24.72	159.96M	-50.70	2.39892G	-49.71	2.4G	-51.95	2.54678G	-51.78	24.54566G	-43.11	3
2437MHz	Pass	2.43198G	5.28	-24.72	2.30483G	-49.19	2.39892G	-36.63	2.4G	-41.41	2.48486G	-41.87	24.57651G	-43.01	1
2437MHz	Pass	2.43198G	5.28	-24.72	2.30311G	-49.79	2.39952G	-37.69	2.4G	-43.24	2.48382G	-41.00	23.30604G	-42.51	2
2437MHz	Pass	2.43198G	5.28	-24.72	2.3054G	-47.59	2.3994G	-38.93	2.4G	-43.18	2.48366G	-43.05	24.98317G	-42.90	3
2452MHz	Pass	2.43198G	5.28	-24.72	159.96M	-51.12	2.39456G	-47.00	2.4835G	-45.36	2.48446G	-41.85	24.94671G	-43.50	1
2452MHz	Pass	2.43198G	5.28	-24.72	159.96M	-50.83	2.39092G	-47.55	2.4835G	-44.88	2.4857G	-42.59	24.99159G	-43.20	2
2452MHz	Pass	2.43198G	5.28	-24.72	159.96M	-51.35	2.39156G	-48.30	2.4835G	-48.17	2.48446G	-48.17	24.71954G	-43.43	3

802.11b_Nss1,(1Mbps)_1TX

2412MHz

CSE NdB

04/12/2020



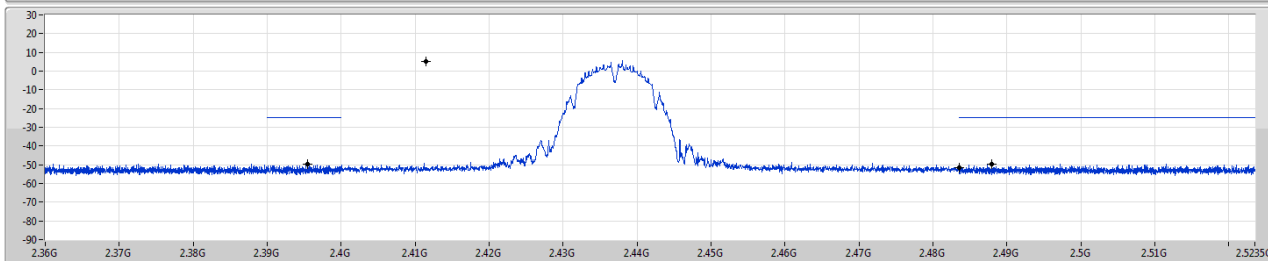
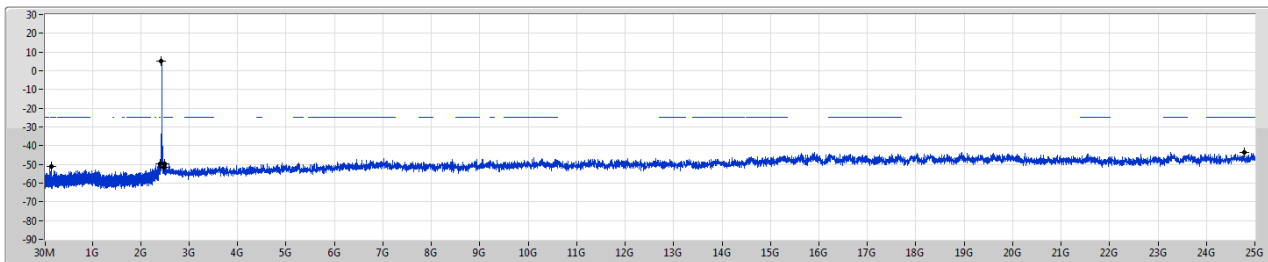
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41148G	5.08	-24.92	159.9M	-51.94	2.39848G	-42.46	2.4G	-46.06	2.50728G	-49.57	2.498595G	-43.47	1

802.11b_Nss1,(1Mbps)_1TX

2437MHz

CSE NdB

04/12/2020



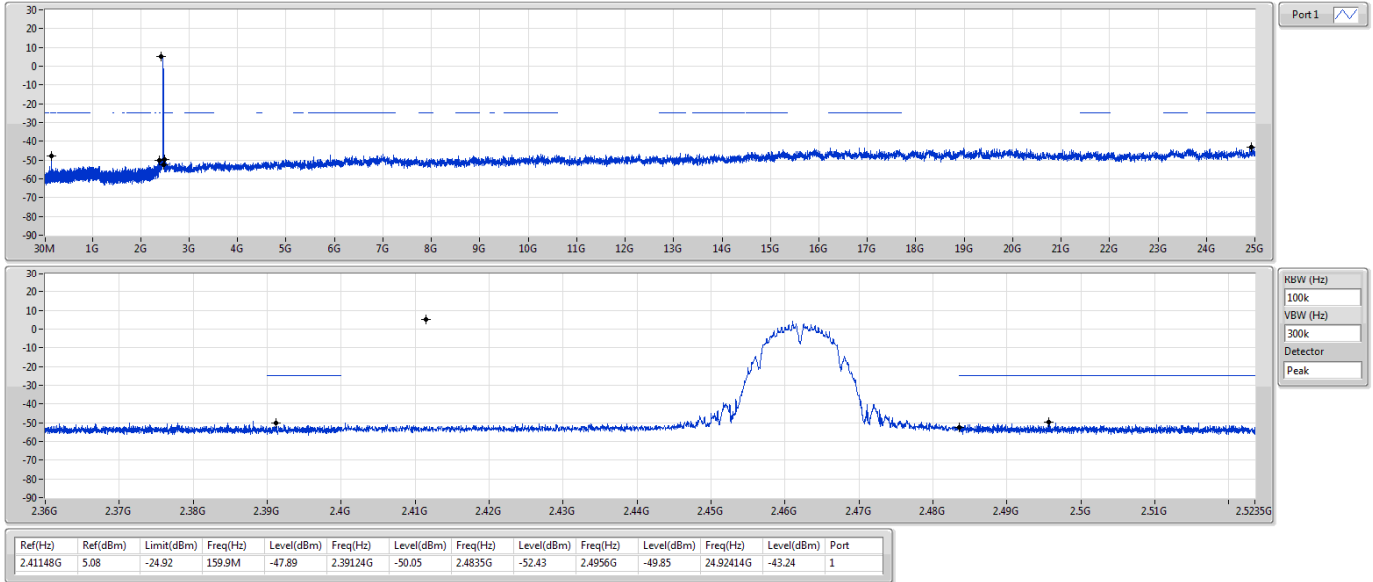
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41148G	5.08	-24.92	159.9M	-51.14	2.39542G	-49.79	2.4835G	-51.45	2.48796G	-49.52	2.478085G	-43.80	1

802.11b_Nss1,(1Mbps)_1TX

2462MHz

CSE NdB

04/12/2020

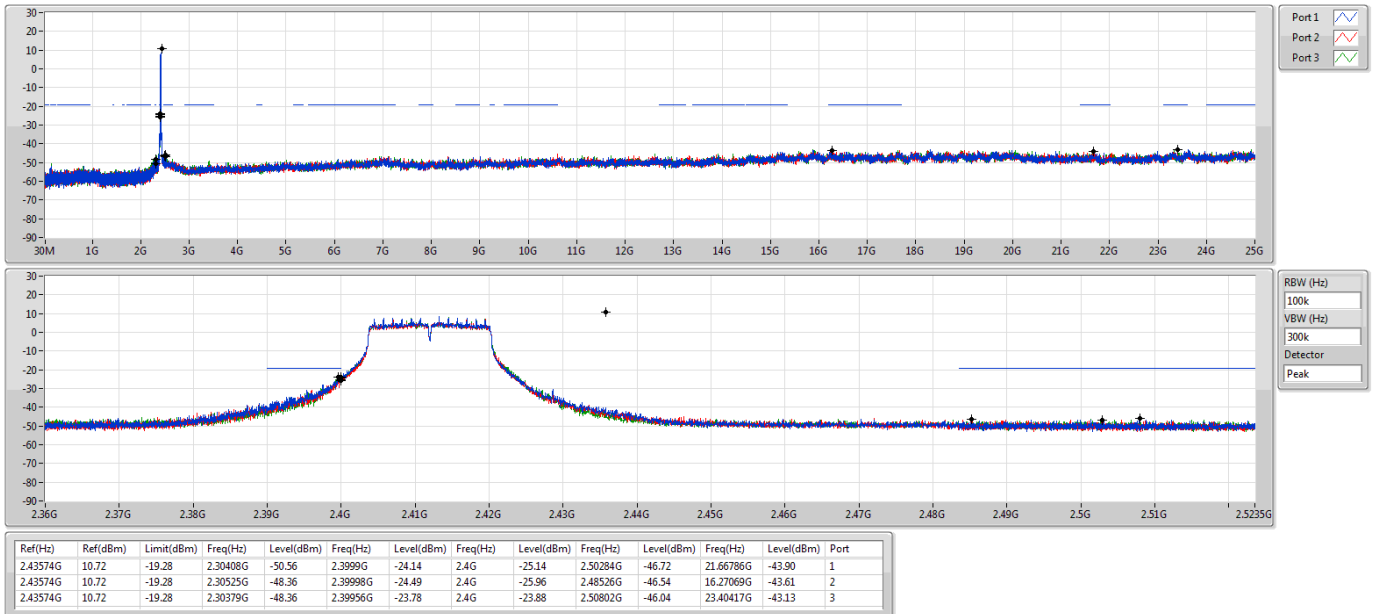


802.11g_Nss1,(6Mbps)_3TX

2412MHz

CSE NdB

04/12/2020

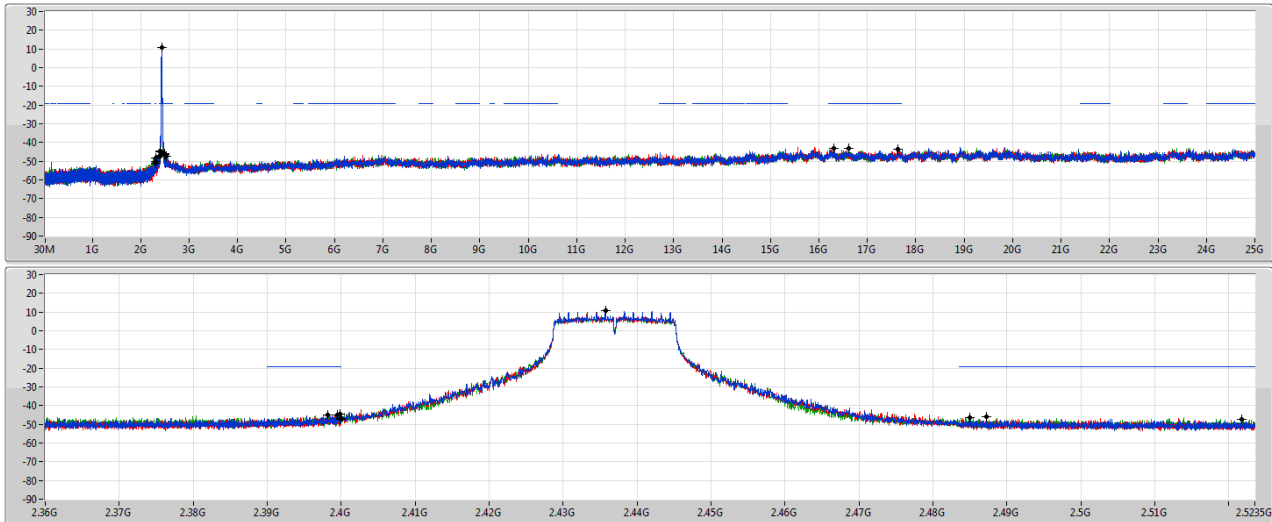


802.11g_Nss1,(6Mbps)_3TX

2437MHz

CSE NdB

04/12/2020



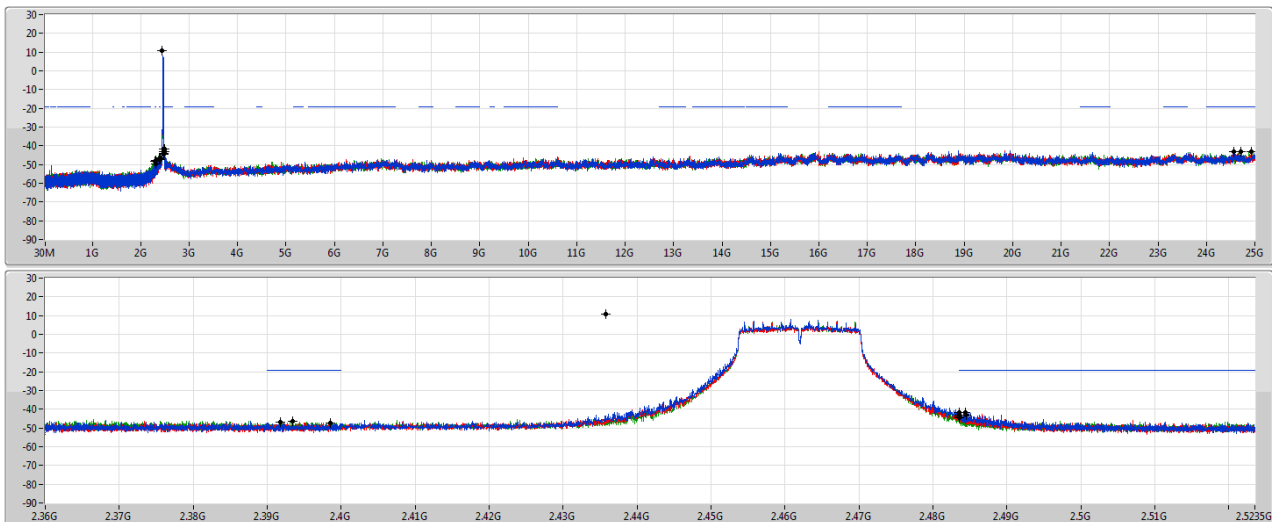
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	10.72	-19.28	2.30787G	-50.32	2.39814G	-44.95	2.4G	-46.83	2.5217G	-47.14	16.61908G	-43.22	1
2.43574G	10.72	-19.28	2.3035G	-51.01	2.39944G	-45.01	2.4G	-47.47	2.48498G	-46.38	17.6249G	-43.68	2
2.43574G	10.72	-19.28	2.30437G	-48.24	2.3998G	-44.71	2.4G	-47.51	2.48724G	-45.81	16.31564G	-43.08	3

802.11g_Nss1,(6Mbps)_3TX

2462MHz

CSE NdB

04/12/2020

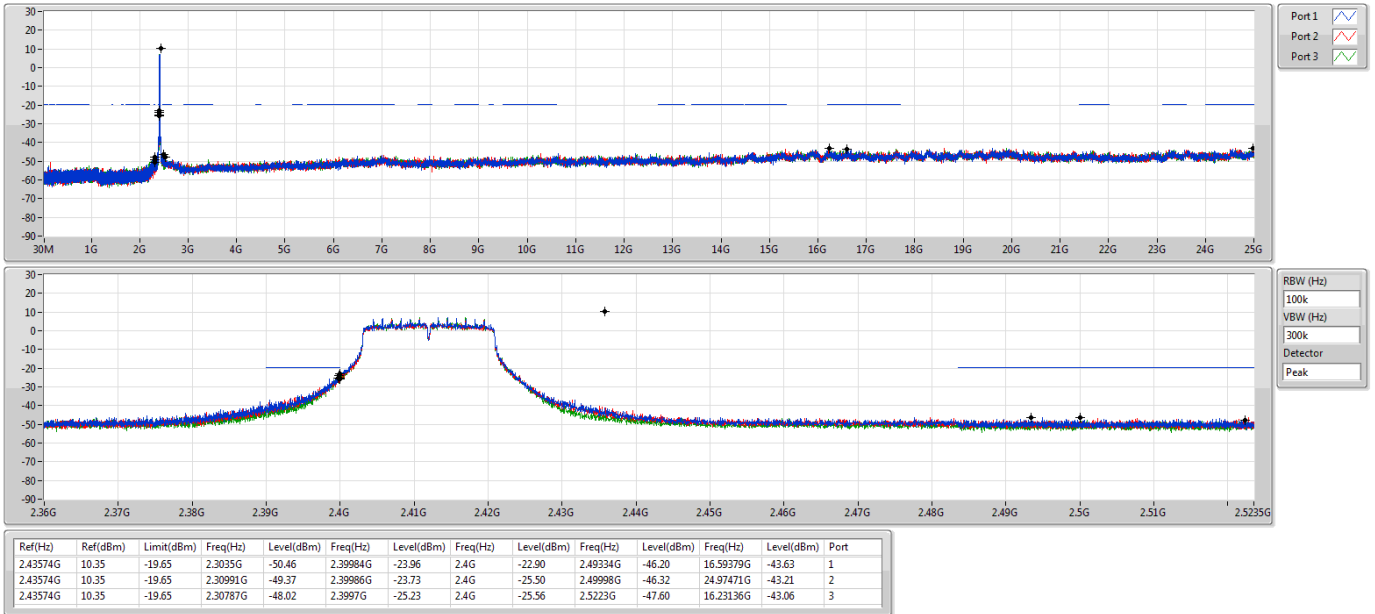


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	10.72	-19.28	2.30466G	-47.92	2.39858G	-47.15	2.4835G	-43.19	2.48354G	-41.81	24.71342G	-42.90	1
2.43574G	10.72	-19.28	2.30961G	-49.86	2.39174G	-46.80	2.4835G	-43.85	2.48442G	-41.89	24.92133G	-43.14	2
2.43574G	10.72	-19.28	2.3G	-48.49	2.39344G	-46.18	2.4835G	-44.71	2.48444G	-43.02	24.57014G	-43.34	3

802.11n HT20_Nss1,(MCS0)_3TX

CSE NdB

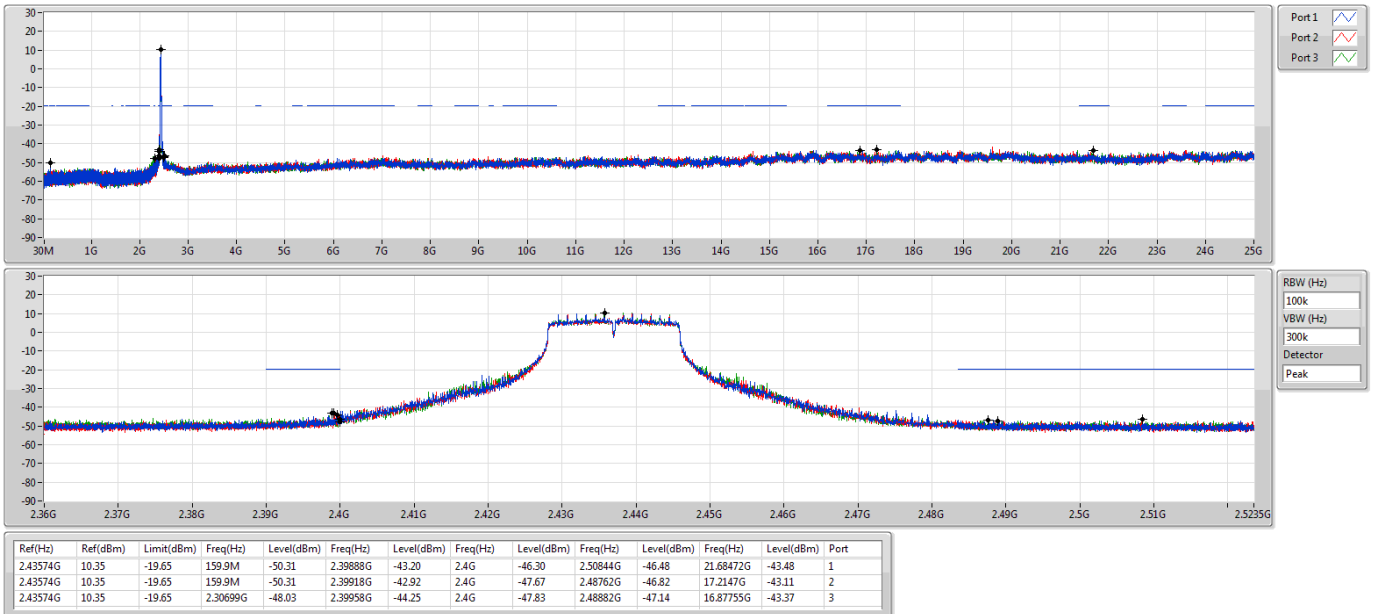
2412MHz



802.11n HT20_Nss1,(MCS0)_3TX

CSE NdB

2437MHz

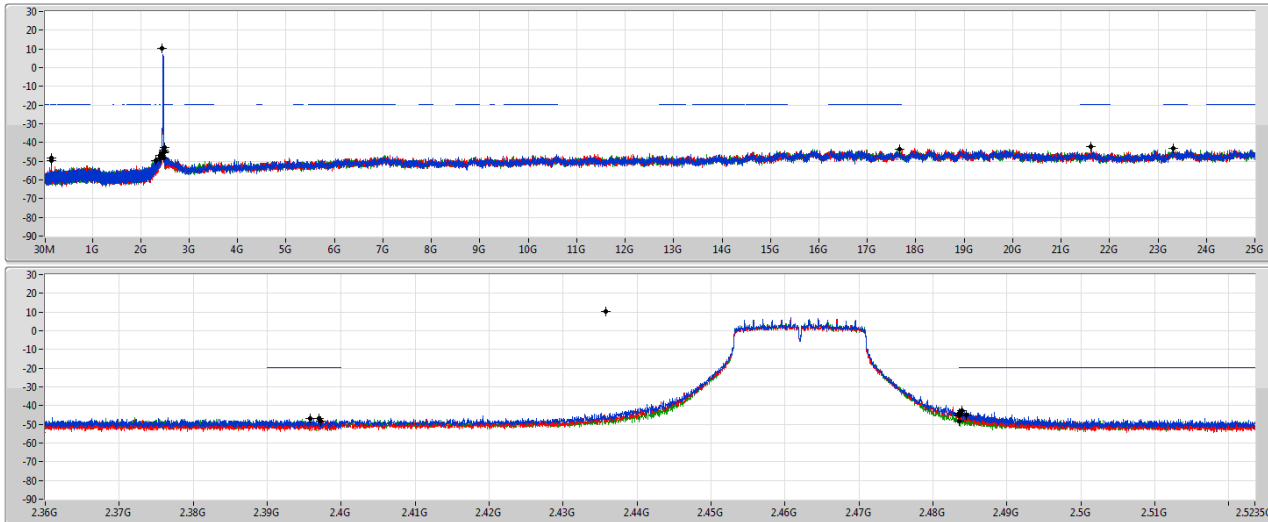


802.11n HT20_Nss1,(MCS0)_3TX

2462MHz

CSE NdB

04/12/2020



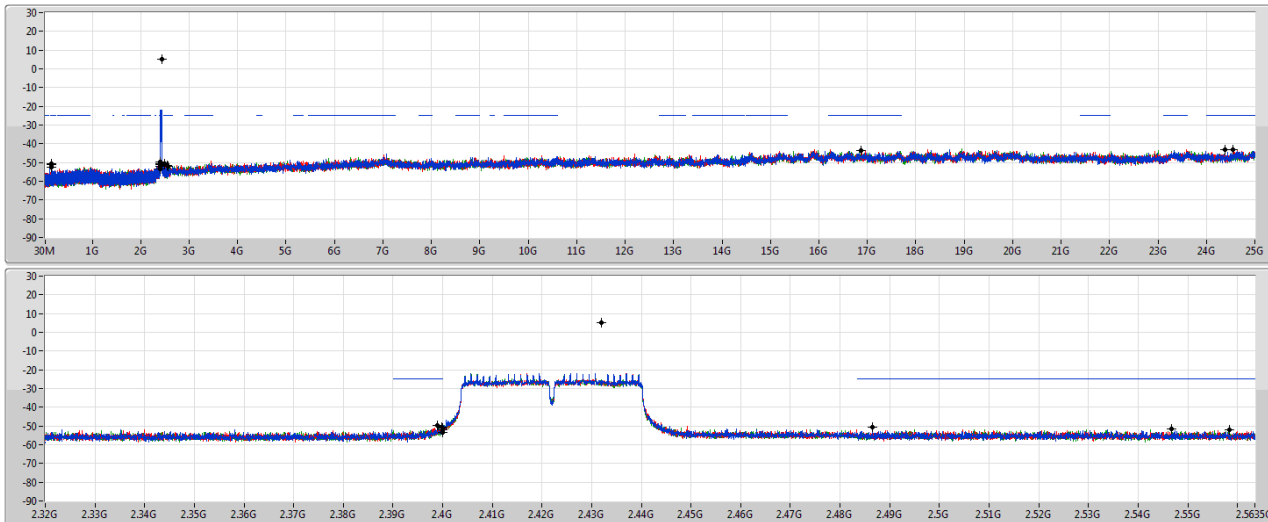
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	10.35	-19.65	2.3035G	-49.49	2.39584G	-47.09	2.4835G	-45.62	2.48392G	-42.89	23.31145G	-42.95	1
2.43574G	10.35	-19.65	159.9M	-48.43	2.39718G	-48.25	2.4835G	-45.23	2.48354G	-44.17	21.62291G	-42.30	2
2.43574G	10.35	-19.65	159.9M	-49.71	2.397G	-46.80	2.4835G	-48.05	2.48454G	-44.96	17.67266G	-43.58	3

802.11n HT40_Nss1,(MCS0)_3TX

2422MHz

CSE NdB

04/12/2020

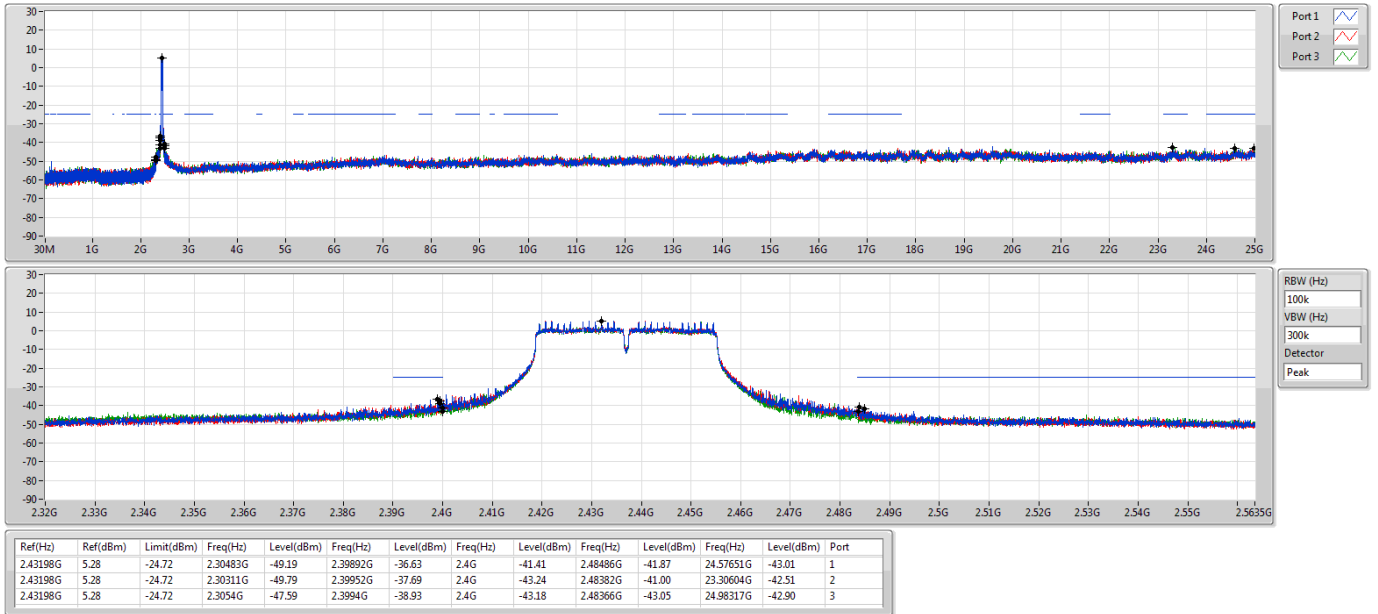


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43198G	5.28	-24.72	159.96M	-51.14	2.3998G	-50.57	2.4G	-51.07	2.4865G	-50.66	16.86677G	-43.63	1
2.43198G	5.28	-24.72	159.96M	-52.62	2.39976G	-50.52	2.4G	-53.25	2.55838G	-51.82	24.38861G	-42.91	2
2.43198G	5.28	-24.72	159.96M	-50.70	2.39892G	-49.71	2.4G	-51.95	2.54678G	-51.78	24.54566G	-43.11	3

802.11n HT40_Nss1,(MCS0)_3TX

CSE NdB

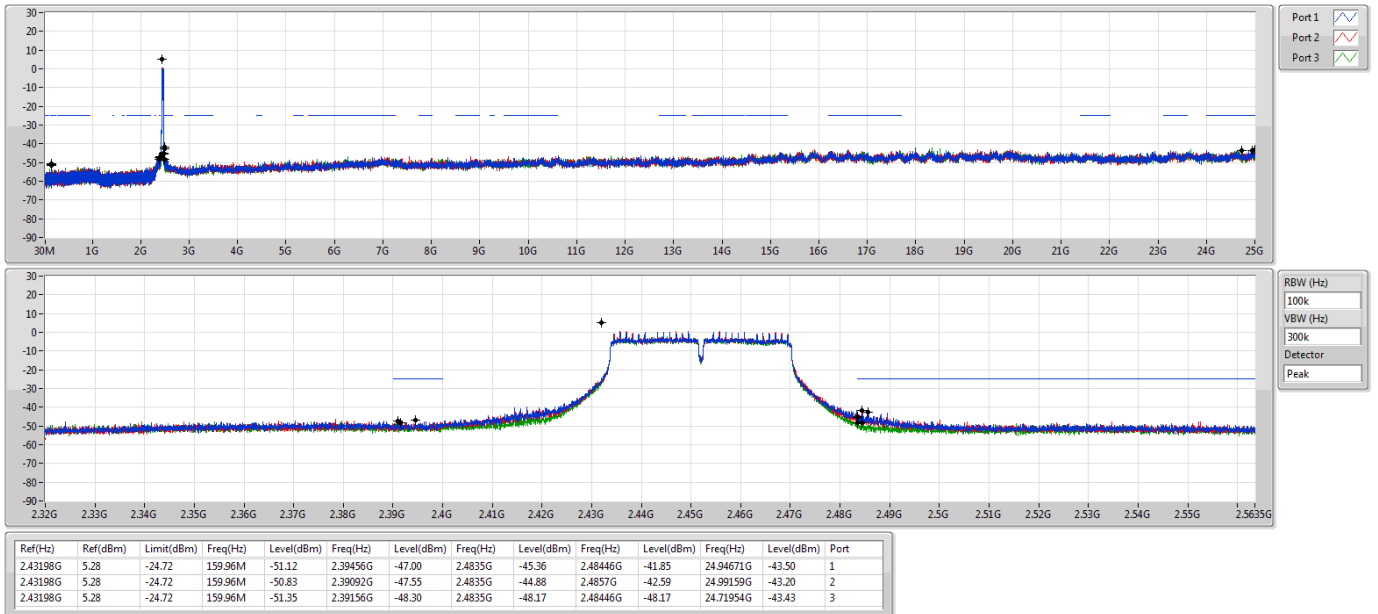
2437MHz



802.11n HT40_Nss1,(MCS0)_3TX

CSE NdB

2452MHz





Radiated Emissions below 1GHz

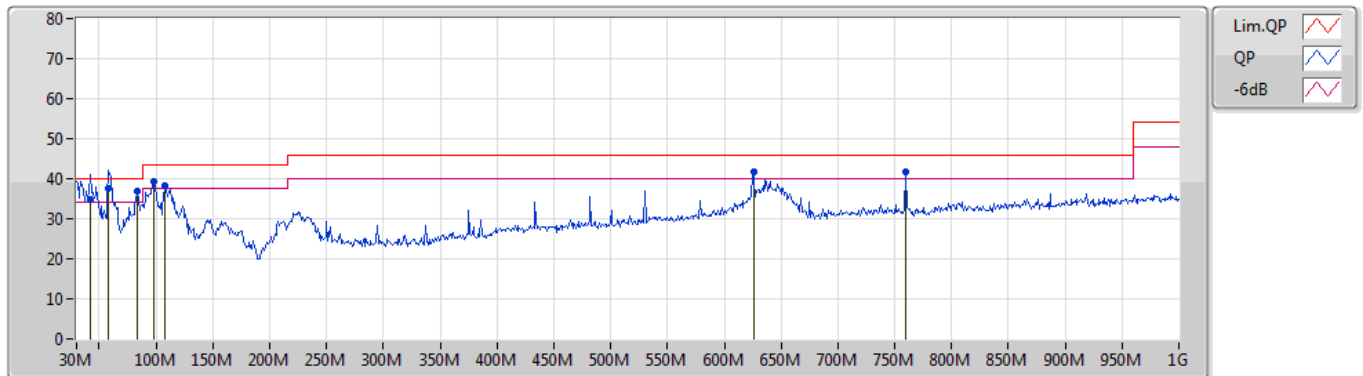
Appendix F.1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	759.44M	44.99	46.00	-1.01	Horizontal

Mode 1

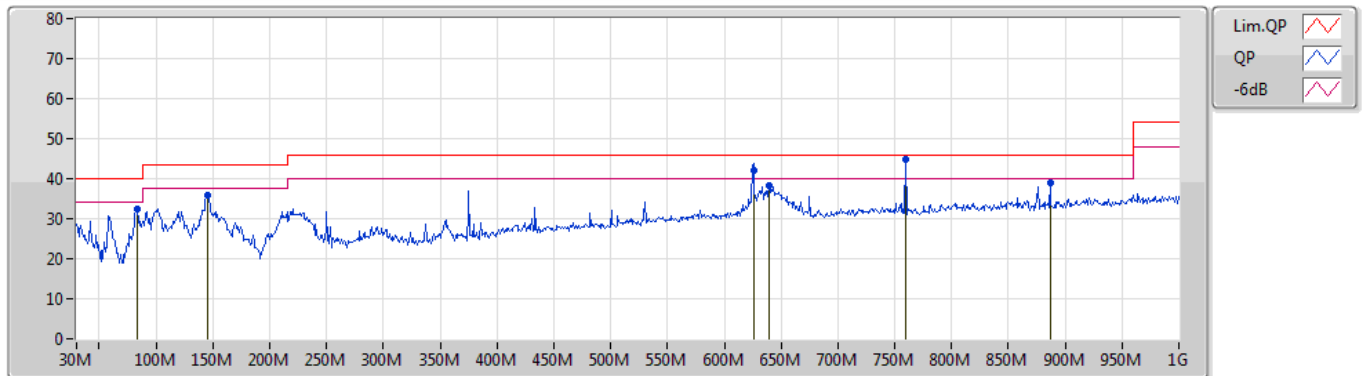
08/01/2021



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	42.61M	34.75	40.00	-5.25	-14.45	3	Vertical	73	1.00	-	49.20	16.83	1.10	32.38
QP	58.13M	37.61	40.00	-2.39	-18.57	3	Vertical	360	1.00	"Worst"	56.18	12.45	1.36	32.38
PK	83.35M	36.75	40.00	-3.25	-17.39	3	Vertical	242	1.50	-	54.14	13.34	1.60	32.33
PK	97.9M	39.26	43.50	-4.24	-14.10	3	Vertical	315	1.00	-	53.36	16.45	1.76	32.31
PK	107.6M	38.42	43.50	-5.08	-12.67	3	Vertical	132	1.00	-	51.09	17.76	1.88	32.31
PK	625.58M	41.64	46.00	-4.36	-1.85	3	Vertical	127	1.00	-	43.49	25.42	4.80	32.07
PK	759.44M	41.65	46.00	-4.35	-0.79	3	Vertical	180	1.25	-	42.44	25.69	5.42	31.90

Mode 1

08/01/2021



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	83.35M	32.41	40.00	-7.59	-17.39	3	Horizontal	85	2.00	-	49.80	13.34	1.60	32.33
PK	145.43M	35.81	43.50	-7.69	-13.45	3	Horizontal	101	2.00	-	49.26	16.69	2.15	32.29
QP	625.58M	41.99	46.00	-4.01	-1.85	3	Horizontal	94	1.25	-	43.84	25.42	4.80	32.07
PK	639.16M	38.18	46.00	-7.82	-1.89	3	Horizontal	94	1.25	-	40.07	25.34	4.86	32.09
QP	759.44M	44.99	46.00	-1.01	-0.79	3	Horizontal	149	1.00	"Worst"	45.78	25.69	5.42	31.90
PK	886.51M	38.82	46.00	-7.18	0.87	3	Horizontal	215	1.00	-	37.95	26.38	5.85	31.36



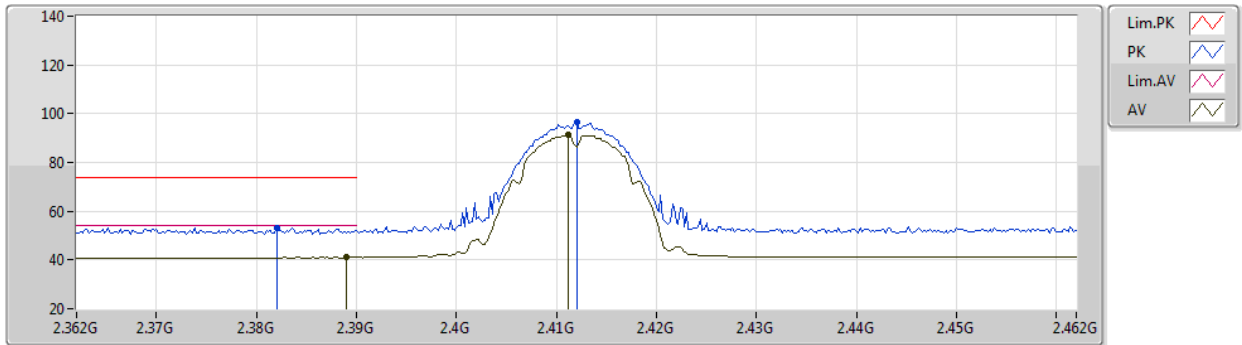
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	4.87397G	53.99	54.00	-0.01	3	Horizontal	190	1.57	-

802.11b_Nss1,(1Mbps)_1TX

30/11/2020

2412MHz_TX



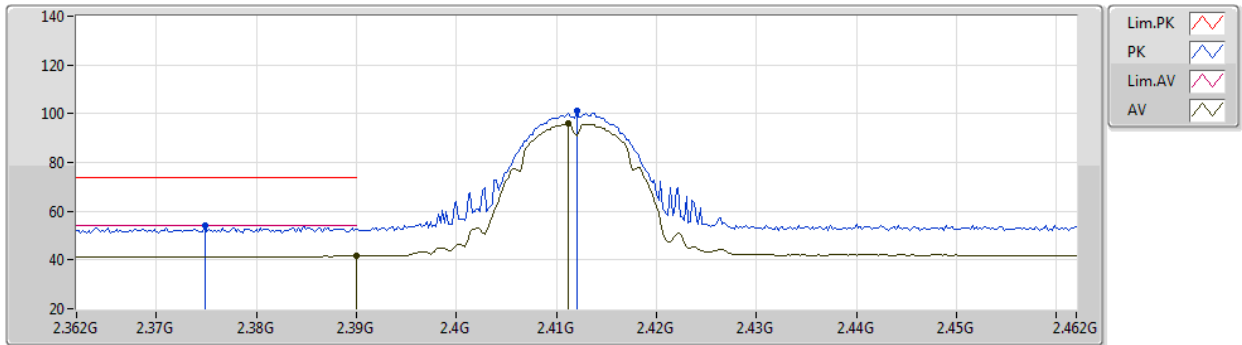
EUT Y_1TX
Setting 14
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.382G	53.10	74.00	-20.90	23.56	3	Vertical	103	2.10	-	27.36	2.18	-
AV	2.389G	41.03	54.00	-12.97	11.46	3	Vertical	103	2.10	-	27.38	2.19	-
PK	2.412G	96.73	Inf	-Inf	67.10	3	Vertical	103	2.10	-	27.42	2.21	-
AV	2.4112G	91.20	Inf	-Inf	61.57	3	Vertical	103	2.10	-	27.42	2.21	-

802.11b_Nss1,(1Mbps)_1TX

30/11/2020

2412MHz_TX



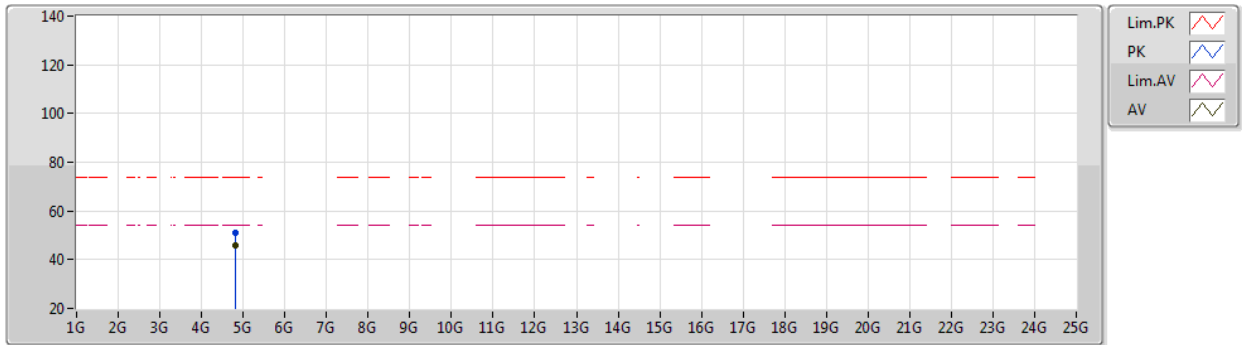
EUT Y_1TX
Setting 14
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3748G	53.91	74.00	-20.09	24.39	3	Horizontal	193	2.10	-	27.35	2.17	-
AV	2.39G	41.56	54.00	-12.44	11.99	3	Horizontal	193	2.10	-	27.38	2.19	-
PK	2.412G	101.46	Inf	-Inf	71.83	3	Horizontal	193	2.10	-	27.42	2.21	-
AV	2.4112G	95.80	Inf	-Inf	66.17	3	Horizontal	193	2.10	-	27.42	2.21	-

802.11b_Nss1,(1Mbps)_1TX

30/11/2020

2412MHz_TX



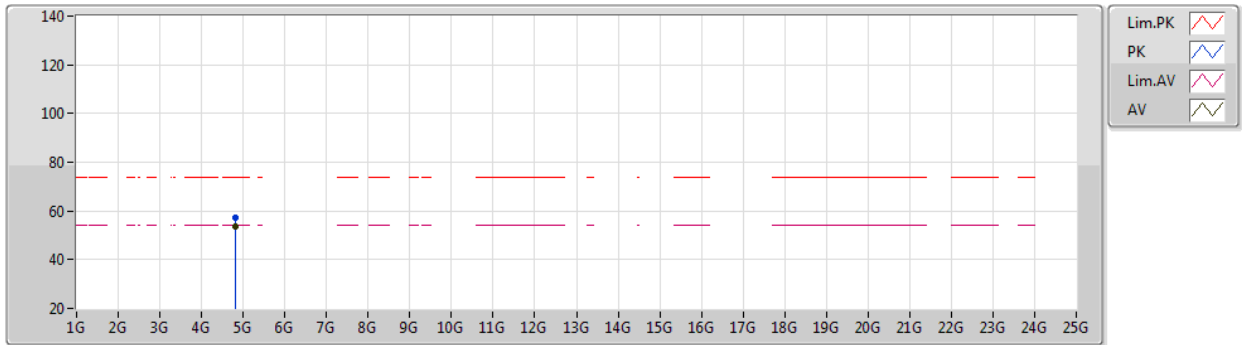
EUT V_1TX
Setting 14
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82398G	50.98	74.00	-23.02	48.45	3	Vertical	99	2.92	-	32.24	5.01	34.72
AV	4.82398G	46.06	54.00	-7.94	43.53	3	Vertical	99	2.92	-	32.24	5.01	34.72

802.11b_Nss1,(1Mbps)_1TX

30/11/2020

2412MHz_TX



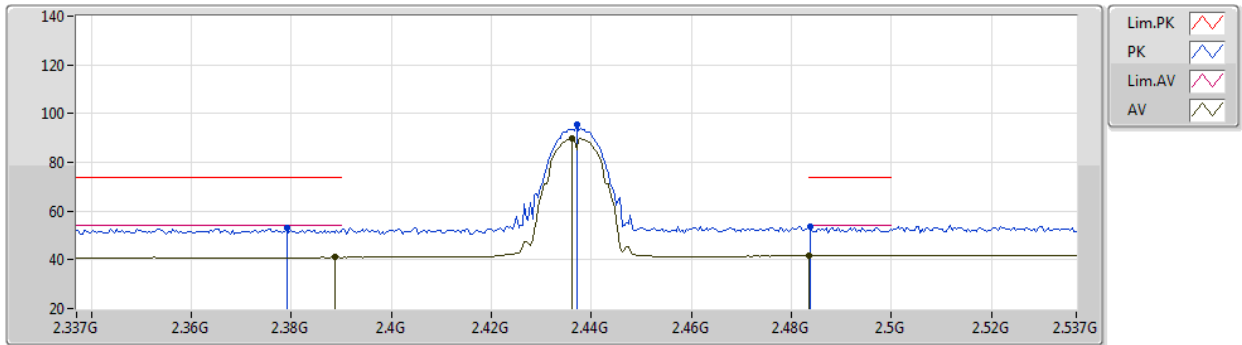
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Setting 14
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82393G	57.05	74.00	-16.95	54.52	3	Horizontal	191	1.62	-	32.24	5.01	34.72
AV	4.82398G	53.75	54.00	-0.25	51.22	3	Horizontal	191	1.62	-	32.24	5.01	34.72

802.11b_Nss1,(1Mbps)_1TX

30/11/2020

2437MHz_TX



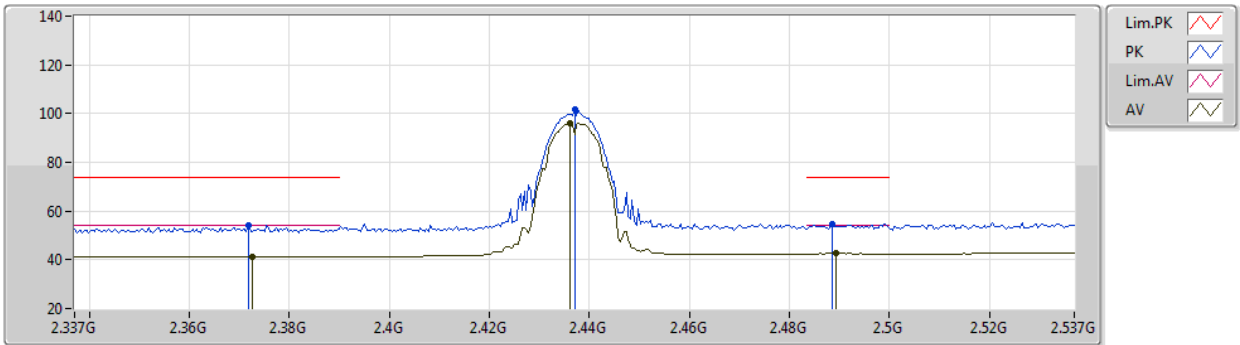
EUT Y_1TX
Setting 13
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.379G	52.85	74.00	-21.15	23.31	3	Vertical	101	2.32	-	27.36	2.18	-
AV	2.3886G	40.98	54.00	-13.02	11.41	3	Vertical	101	2.32	-	27.38	2.19	-
PK	2.437G	95.26	Inf	-Inf	65.55	3	Vertical	101	2.32	-	27.47	2.24	-
AV	2.4362G	89.91	Inf	-Inf	60.20	3	Vertical	101	2.32	-	27.47	2.24	-
PK	2.4838G	53.49	74.00	-20.51	23.51	3	Vertical	101	2.32	-	27.70	2.28	-
AV	2.4835G	41.66	54.00	-12.34	11.68	3	Vertical	101	2.32	-	27.70	2.28	-

802.11b_Nss1,(1Mbps)_1TX

30/11/2020

2437MHz_TX



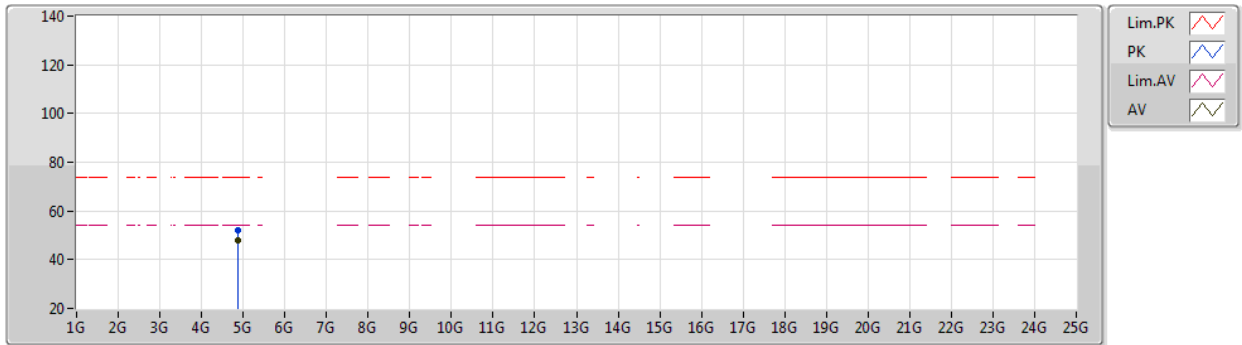
EUT Y_1TX
Setting 13
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3718G	53.93	74.00	-20.07	24.42	3	Horizontal	5	1.14	-	27.34	2.17	-
AV	2.3726G	41.39	54.00	-12.61	11.87	3	Horizontal	5	1.14	-	27.35	2.17	-
PK	2.437G	101.50	Inf	-Inf	71.79	3	Horizontal	5	1.14	-	27.47	2.24	-
AV	2.4362G	95.98	Inf	-Inf	66.27	3	Horizontal	5	1.14	-	27.47	2.24	-
PK	2.4886G	54.72	74.00	-19.28	24.70	3	Horizontal	5	1.14	-	27.73	2.29	-
AV	2.4894G	42.64	54.00	-11.36	12.61	3	Horizontal	5	1.14	-	27.74	2.29	-

802.11b_Nss1,(1Mbps)_1TX

30/11/2020

2437MHz_TX



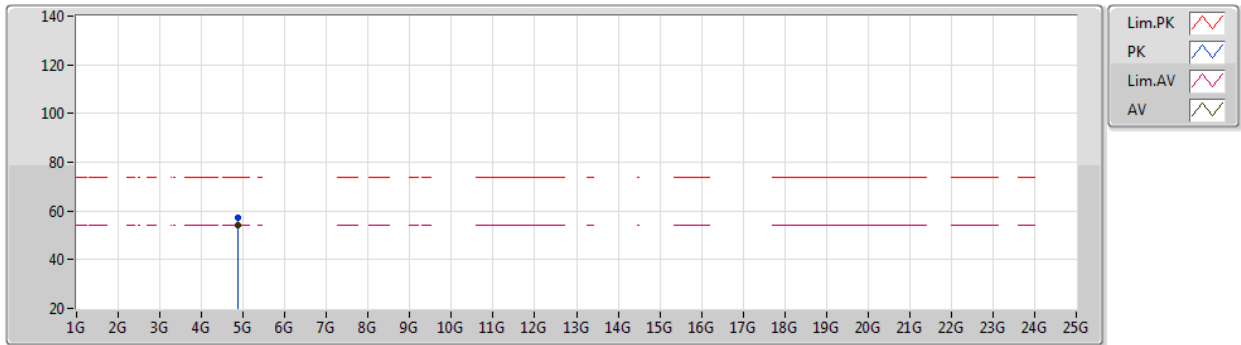
EUT V_1TX
Setting 13
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87395G	51.92	74.00	-22.08	49.11	3	Vertical	88	1.42	-	32.45	5.04	34.68
AV	4.87394G	47.74	54.00	-6.26	44.93	3	Vertical	88	1.42	-	32.45	5.04	34.68

802.11b_Nss1,(1Mbps)_1TX

30/11/2020

2437MHz_TX



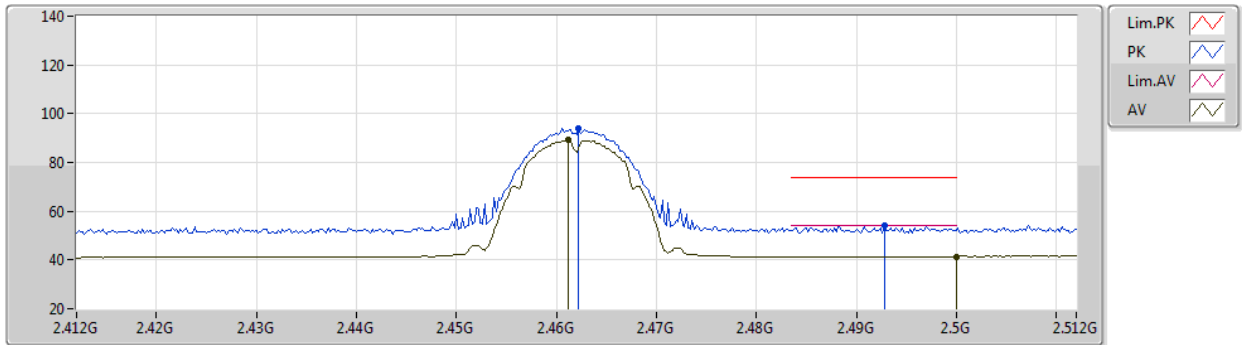
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Setting 13
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87392G	57.07	74.00	-16.93	54.26	3	Horizontal	190	1.57	-	32.45	5.04	34.68
AV	4.87397G	53.99	54.00	-0.01	51.18	3	Horizontal	190	1.57	-	32.45	5.04	34.68

802.11b_Nss1,(1Mbps)_1TX

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2462MHz_TX



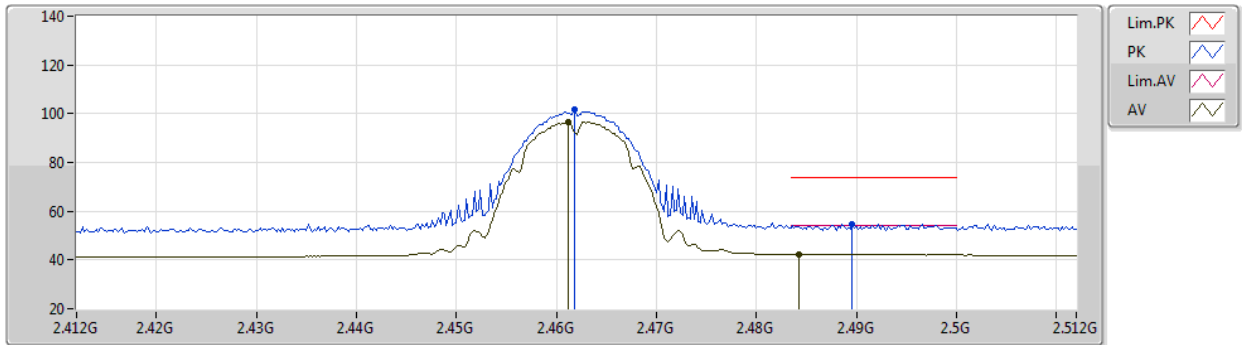
EUT Y_1TX
Setting 12
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4622G	93.96	Inf	-Inf	64.13	3	Vertical	106	2.51	-	27.57	2.26	-
AV	2.4612G	89.17	Inf	-Inf	59.34	3	Vertical	106	2.51	-	27.57	2.26	-
PK	2.4928G	54.24	74.00	-19.76	24.19	3	Vertical	106	2.51	-	27.76	2.29	-
AV	2.5G	41.46	54.00	-12.54	11.36	3	Vertical	106	2.51	-	27.80	2.30	-

802.11b_Nss1,(1Mbps)_1TX

30/11/2020

2462MHz_TX



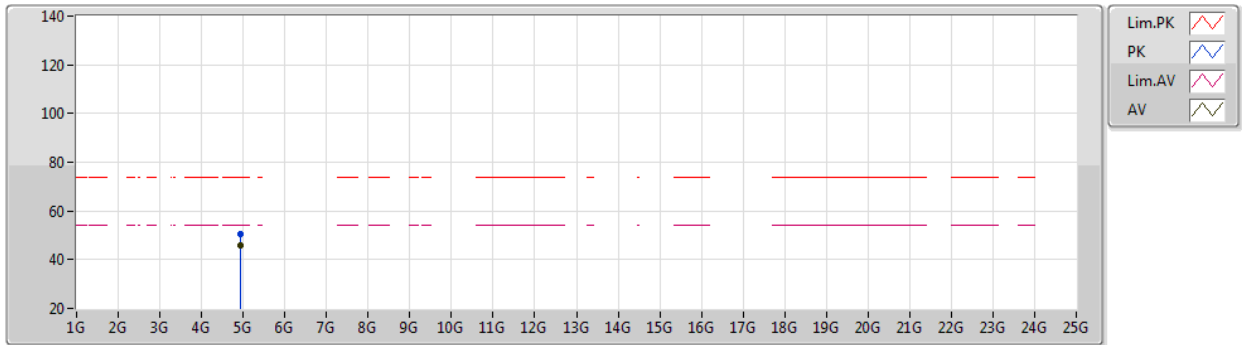
EUT Y_1TX
Setting 12
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4618G	101.64	Inf	-Inf	71.81	3	Horizontal	345	2.89	-	27.57	2.26	-
AV	2.4612G	96.48	Inf	-Inf	66.65	3	Horizontal	345	2.89	-	27.57	2.26	-
PK	2.4896G	54.61	74.00	-19.39	24.58	3	Horizontal	345	2.89	-	27.74	2.29	-
AV	2.4842G	42.21	54.00	-11.79	12.22	3	Horizontal	345	2.89	-	27.71	2.28	-

802.11b_Nss1,(1Mbps)_1TX

30/11/2020

2462MHz_TX



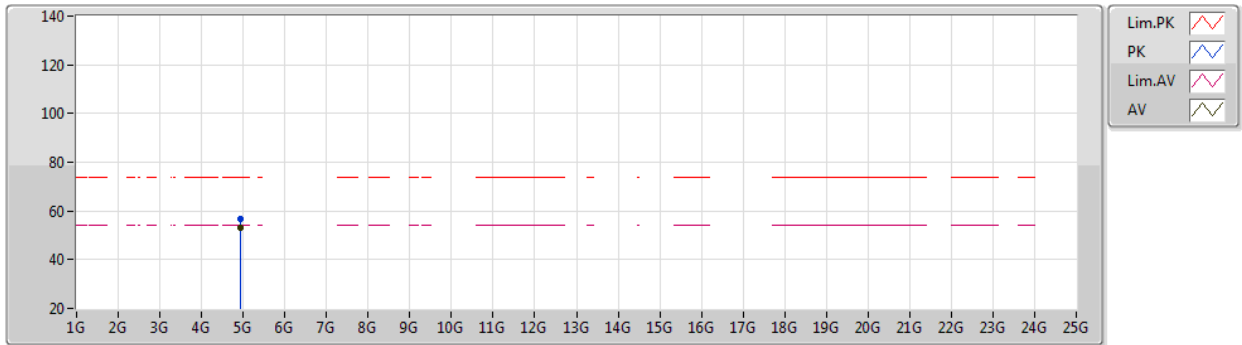
EUT V_1TX
Setting 12
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9239G	50.77	74.00	-23.23	47.71	3	Vertical	110	1.51	-	32.64	5.06	34.64
AV	4.92396G	45.87	54.00	-8.13	42.81	3	Vertical	110	1.51	-	32.64	5.06	34.64

802.11b_Nss1,(1Mbps)_1TX

30/11/2020

2462MHz_TX



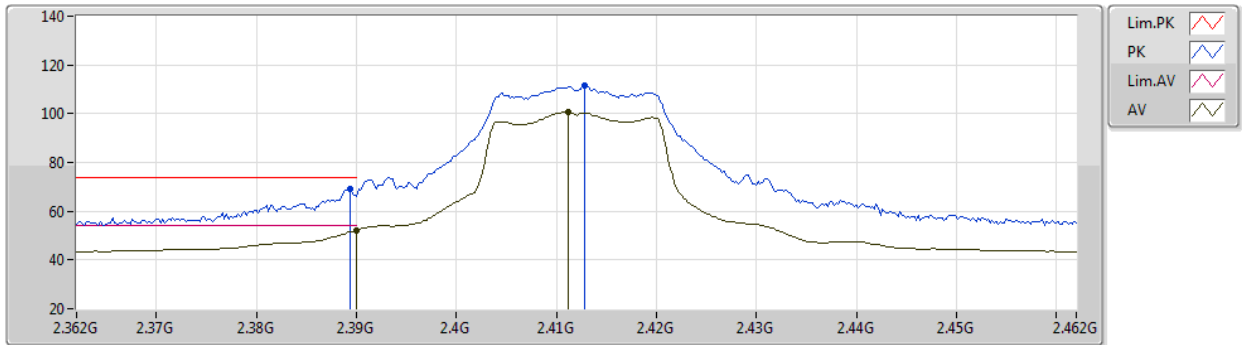
EUT V_1TX
Setting 12
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92386G	56.71	74.00	-17.29	53.65	3	Horizontal	188	1.64	-	32.64	5.06	34.64
AV	4.92396G	53.25	54.00	-0.75	50.19	3	Horizontal	188	1.64	-	32.64	5.06	34.64

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2412MHz_TX



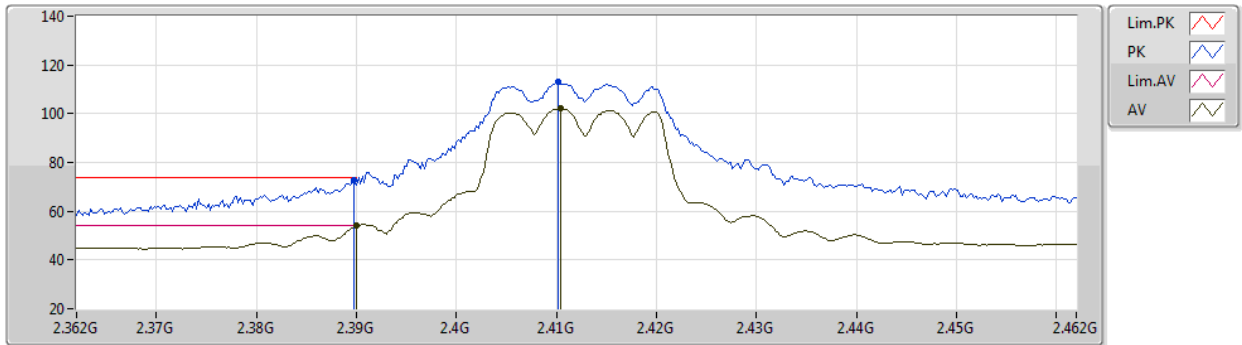
EUT Y_3TX
Setting 19.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	69.25	74.00	-4.75	39.68	3	Vertical	354	1.10	-	27.38	2.19	-
AV	2.39G	52.19	54.00	-1.81	22.62	3	Vertical	354	1.10	-	27.38	2.19	-
PK	2.4128G	111.35	Inf	-Inf	81.71	3	Vertical	354	1.10	-	27.43	2.21	-
AV	2.4112G	100.68	Inf	-Inf	71.05	3	Vertical	354	1.10	-	27.42	2.21	-

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2412MHz_TX



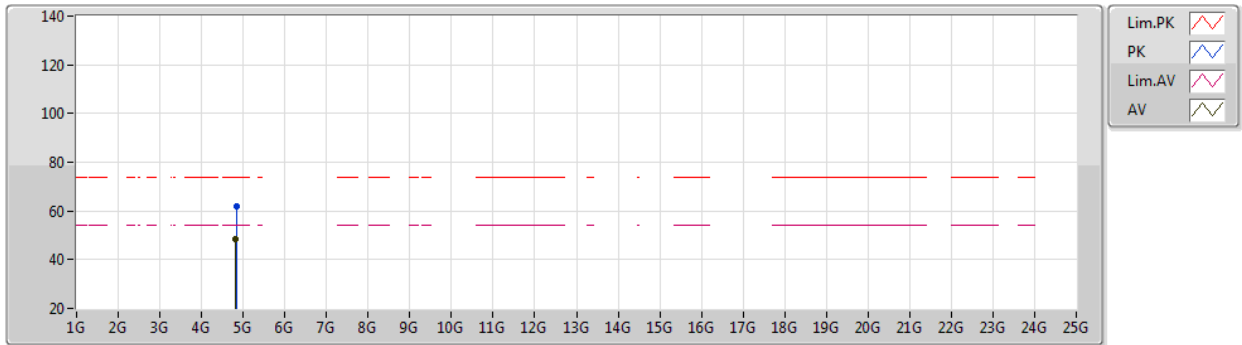
EUT Y_3TX
Setting 19.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	72.54	74.00	-1.46	42.97	3	Horizontal	0	1.75	-	27.38	2.19	-
AV	2.39G	53.91	54.00	-0.09	24.34	3	Horizontal	0	1.75	-	27.38	2.19	-
PK	2.4102G	112.96	Inf	-Inf	83.33	3	Horizontal	0	1.75	-	27.42	2.21	-
AV	2.4104G	102.10	Inf	-Inf	72.47	3	Horizontal	0	1.75	-	27.42	2.21	-

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2412MHz_TX



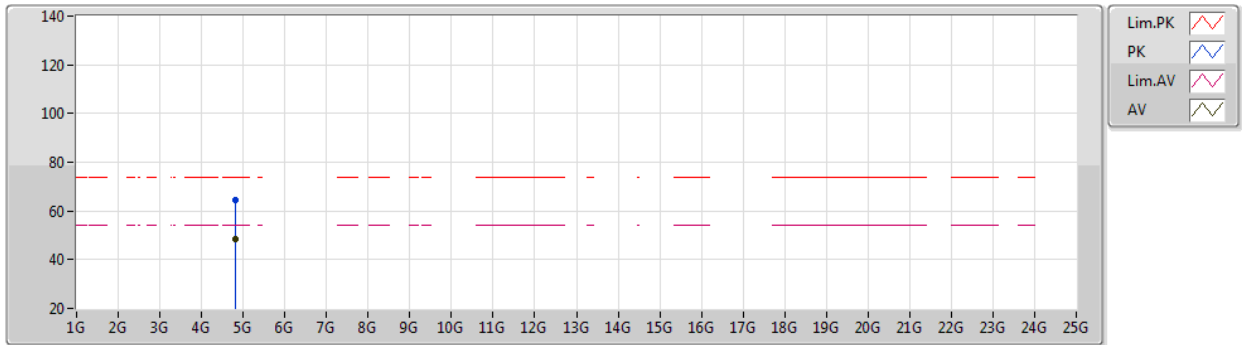
EUT V_3TX
Setting 19.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.832G	62.14	74.00	-11.86	59.55	3	Vertical	188	1.59	-	32.29	5.02	34.72
AV	4.82192G	48.40	54.00	-5.60	45.89	3	Vertical	188	1.59	-	32.23	5.01	34.73

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2412MHz_TX



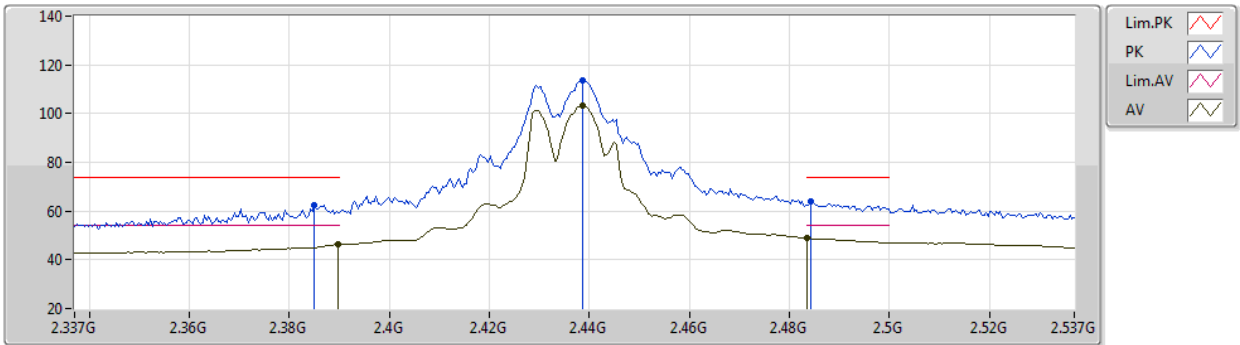
EUT V_3TX
Setting 19.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82192G	64.26	74.00	-9.74	61.75	3	Horizontal	193	1.52	-	32.23	5.01	34.73
AV	4.82176G	48.68	54.00	-5.32	46.17	3	Horizontal	193	1.52	-	32.23	5.01	34.73

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2437MHz_TX



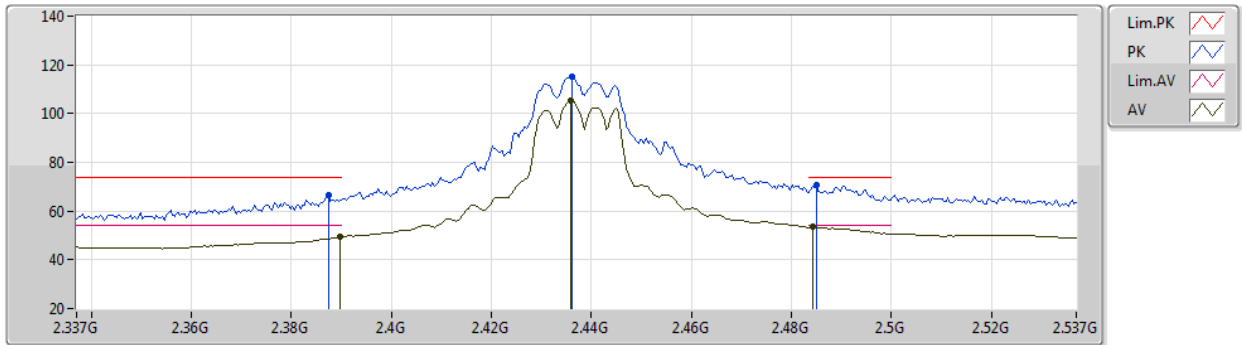
EUT Y_3TX
Setting 21.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.385G	62.65	74.00	-11.35	33.09	3	Vertical	96	2.30	-	27.37	2.19	-
AV	2.3898G	46.29	54.00	-7.71	16.72	3	Vertical	96	2.30	-	27.38	2.19	-
PK	2.4386G	113.58	Inf	-Inf	83.86	3	Vertical	96	2.30	-	27.48	2.24	-
AV	2.4386G	103.18	Inf	-Inf	73.46	3	Vertical	96	2.30	-	27.48	2.24	-
PK	2.4842G	63.79	74.00	-10.21	33.80	3	Vertical	96	2.30	-	27.71	2.28	-
AV	2.4835G	48.96	54.00	-5.04	18.98	3	Vertical	96	2.30	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2437MHz_TX



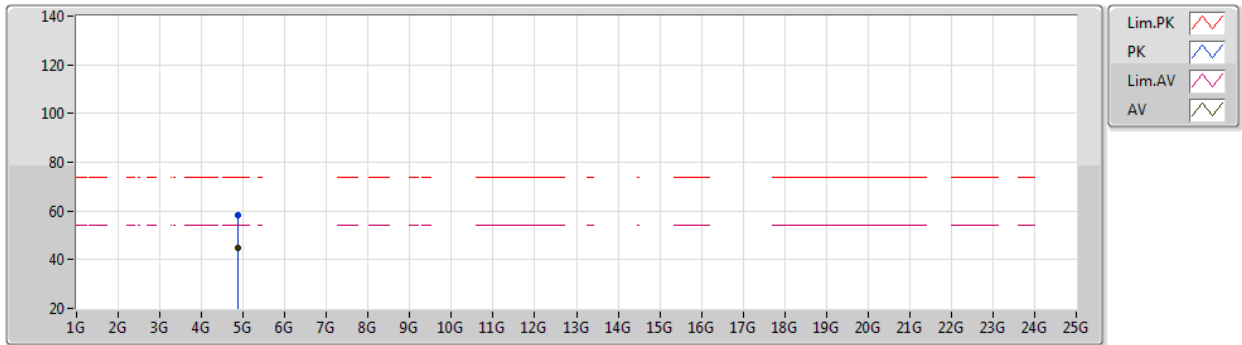
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Setting 21.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3874G	66.51	74.00	-7.49	36.95	3	Horizontal	357	2.21	-	27.37	2.19	-
AV	2.3898G	49.26	54.00	-4.74	19.69	3	Horizontal	357	2.21	-	27.38	2.19	-
PK	2.4362G	115.34	Inf	-Inf	85.63	3	Horizontal	357	2.21	-	27.47	2.24	-
AV	2.4358G	105.25	Inf	-Inf	75.54	3	Horizontal	357	2.21	-	27.47	2.24	-
PK	2.485G	70.51	74.00	-3.49	40.51	3	Horizontal	357	2.21	-	27.71	2.29	-
AV	2.4842G	53.46	54.00	-0.54	23.47	3	Horizontal	357	2.21	-	27.71	2.28	-

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2437MHz_TX



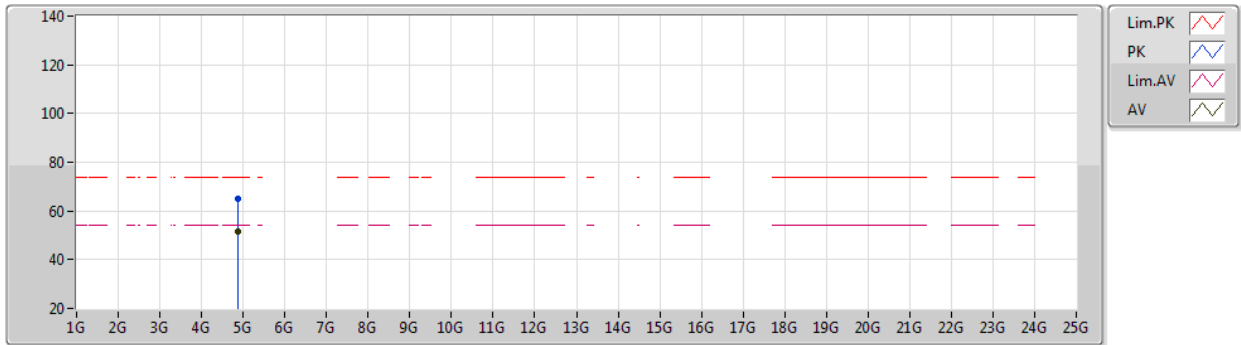
EUT V_3TX
Setting 21.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8704G	58.31	74.00	-15.69	55.52	3	Vertical	101	2.86	-	32.44	5.04	34.69
AV	4.8713G	44.72	54.00	-9.28	41.93	3	Vertical	101	2.86	-	32.44	5.04	34.69

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2437MHz_TX



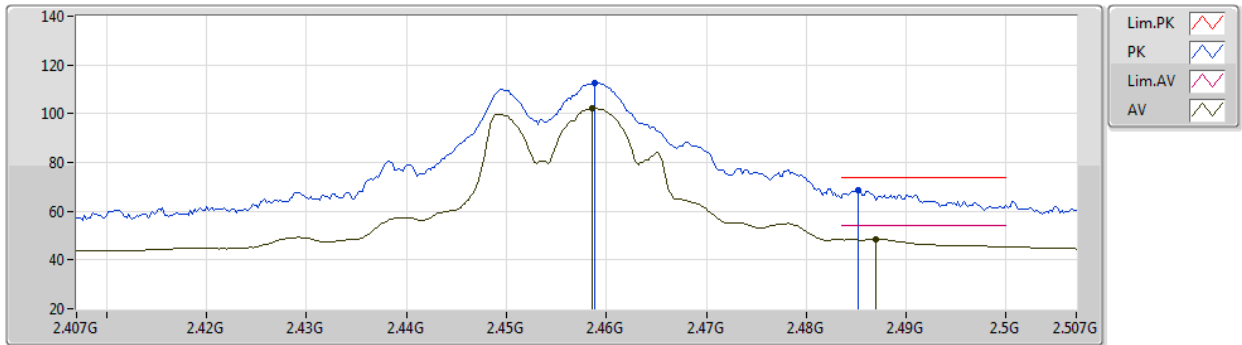
EUT V_3TX
Setting 21.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8716G	64.75	74.00	-9.25	61.96	3	Horizontal	188	1.63	-	32.44	5.04	34.69
AV	4.8717G	51.47	54.00	-2.53	48.68	3	Horizontal	188	1.63	-	32.44	5.04	34.69

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2457MHz_TX



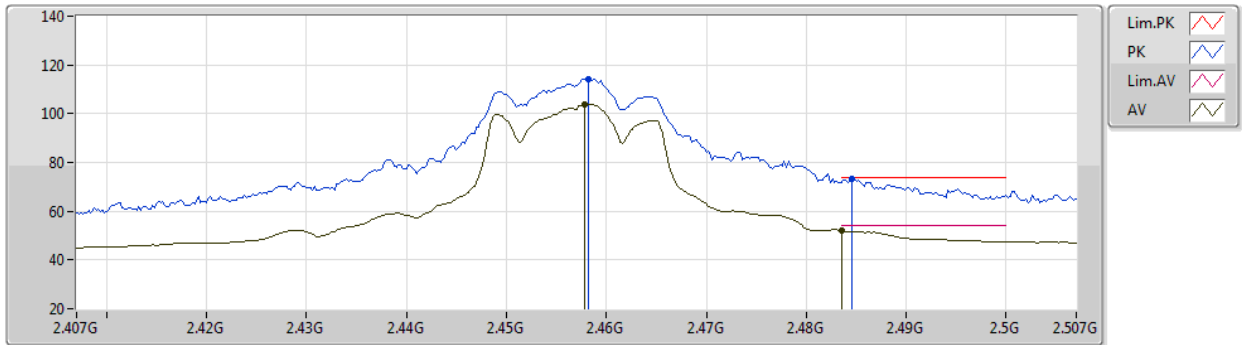
EUT Y_3TX
Setting 20.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4588G	112.68	Inf	-Inf	82.87	3	Vertical	91	2.09	-	27.55	2.26	-
AV	2.4586G	102.15	Inf	-Inf	72.34	3	Vertical	91	2.09	-	27.55	2.26	-
PK	2.4852G	68.55	74.00	-5.45	38.55	3	Vertical	91	2.09	-	27.71	2.29	-
AV	2.487G	48.46	54.00	-5.54	18.45	3	Vertical	91	2.09	-	27.72	2.29	-

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2457MHz_TX



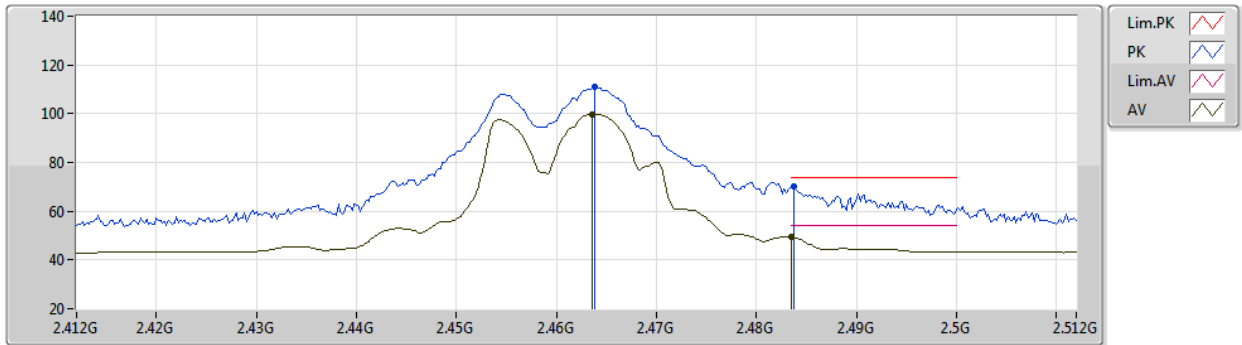
EUT Y_3TX
Setting 20.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4582G	114.20	Inf	-Inf	84.39	3	Horizontal	307	1.99	-	27.55	2.26	-
AV	2.4578G	104.02	Inf	-Inf	74.21	3	Horizontal	307	1.99	-	27.55	2.26	-
PK	2.4846G	73.11	74.00	-0.89	43.12	3	Horizontal	307	1.99	-	27.71	2.28	-
AV	2.4835G	52.10	54.00	-1.90	22.12	3	Horizontal	307	1.99	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2462MHz_TX



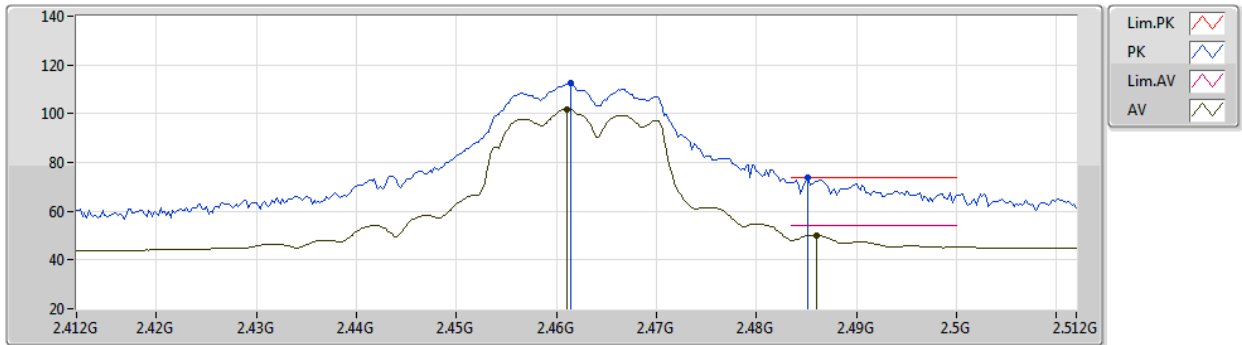
EUT Y_3TX
Setting 18.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	24638G	110.90	Inf	-Inf	81.06	3	Vertical	93	2.07	-	27.58	2.26	-
AV	24636G	99.76	Inf	-Inf	69.92	3	Vertical	93	2.07	-	27.58	2.26	-
PK	24838G	69.95	74.00	-4.05	39.97	3	Vertical	93	2.07	-	27.70	2.28	-
AV	24835G	49.47	54.00	-4.53	19.49	3	Vertical	93	2.07	-	27.70	2.28	-

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2462MHz_TX



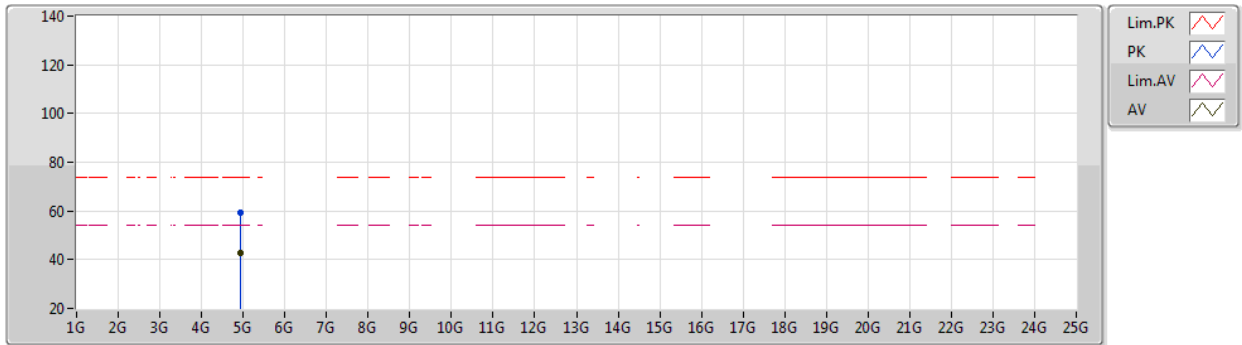
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Setting 18.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4614G	112.62	Inf	-Inf	82.79	3	Horizontal	331	1.96	-	27.57	2.26	-
AV	2.461G	101.81	Inf	-Inf	71.98	3	Horizontal	331	1.96	-	27.57	2.26	-
PK	2.4852G	73.98	74.00	-0.02	43.98	3	Horizontal	331	1.96	-	27.71	2.29	-
AV	2.486G	50.22	54.00	-3.78	20.21	3	Horizontal	331	1.96	-	27.72	2.29	-

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2462MHz_TX



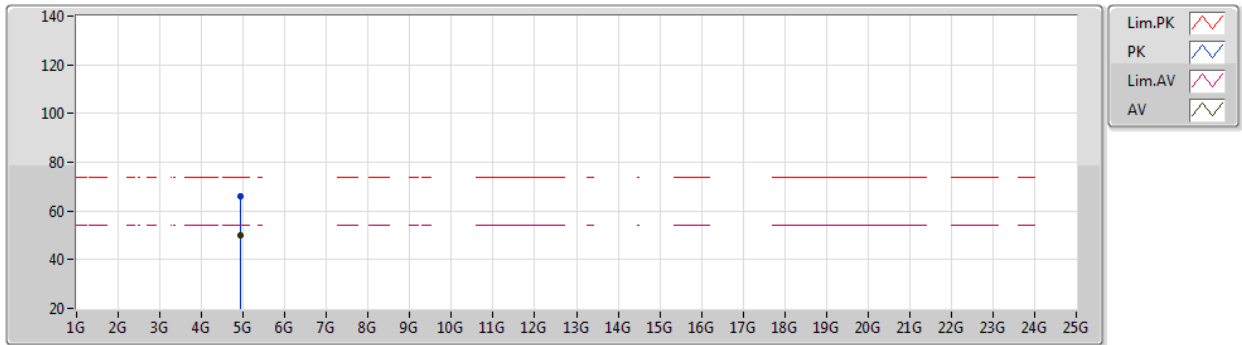
EUT Y_3TX
Setting 18.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92214G	59.37	74.00	-14.63	56.32	3	Vertical	117	1.61	-	32.63	5.06	34.64
AV	4.92202G	42.65	54.00	-11.35	39.60	3	Vertical	117	1.61	-	32.63	5.06	34.64

802.11g_Nss1,(6Mbps)_3TX

30/11/2020

2462MHz_TX



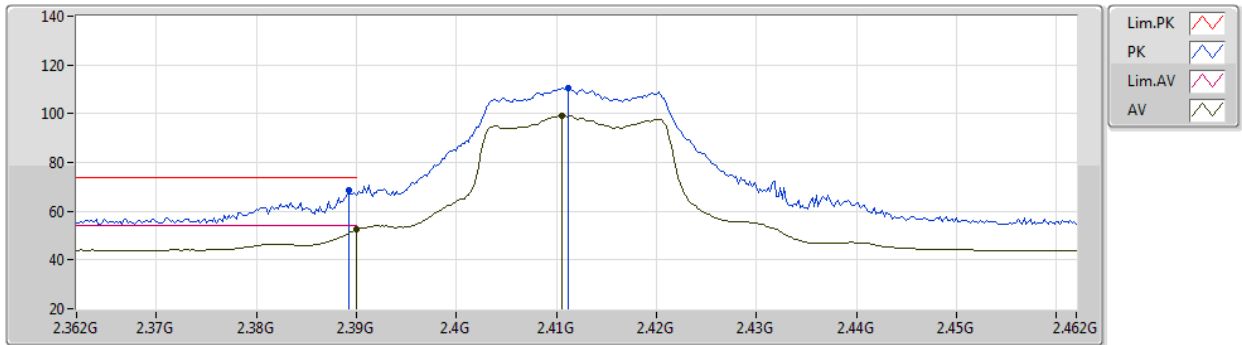
EUT V_3TX
Setting 18.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.922G	66.20	74.00	-7.80	63.15	3	Horizontal	188	1.65	-	32.63	5.06	34.64
AV	4.9216G	49.81	54.00	-4.19	46.76	3	Horizontal	188	1.65	-	32.63	5.06	34.64

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2412MHz_TX



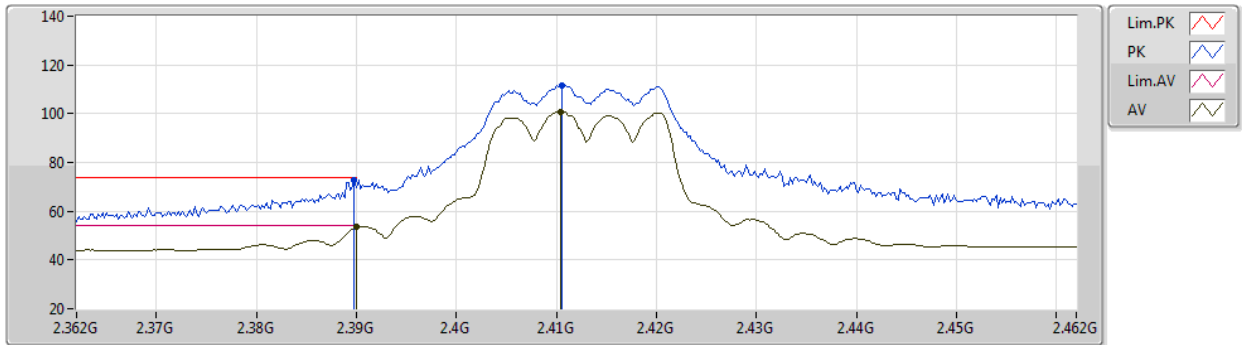
EUT Y_3TX
Setting 18.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	68.48	74.00	-5.52	38.91	3	Vertical	350	1.33	-	27.38	2.19	-
AV	2.39G	52.55	54.00	-1.45	22.98	3	Vertical	350	1.33	-	27.38	2.19	-
PK	2.4112G	110.74	Inf	-Inf	81.11	3	Vertical	350	1.33	-	27.42	2.21	-
AV	2.4106G	99.34	Inf	-Inf	69.71	3	Vertical	350	1.33	-	27.42	2.21	-

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2412MHz_TX



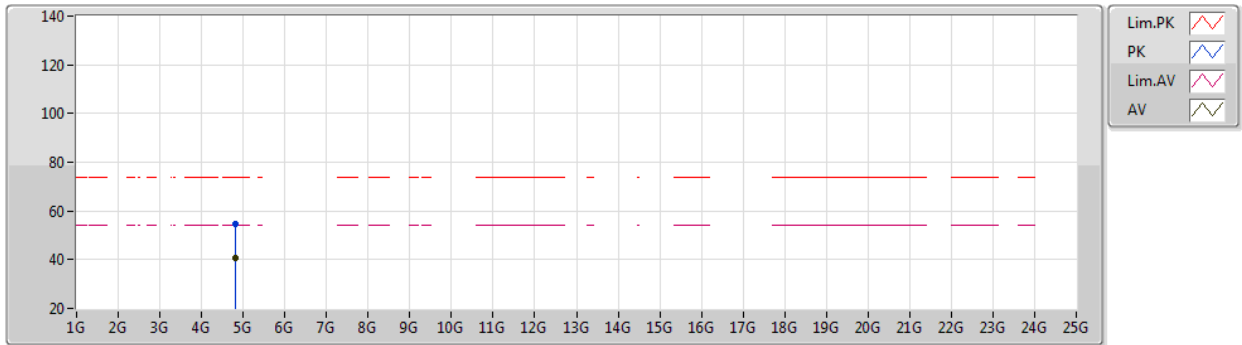
EUT Y_3TX
Setting 18.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	72.74	74.00	-1.26	43.17	3	Horizontal	8	1.75	-	27.38	2.19	-
AV	2.39G	53.53	54.00	-0.47	23.96	3	Horizontal	8	1.75	-	27.38	2.19	-
PK	2.4106G	111.55	Inf	-Inf	81.92	3	Horizontal	8	1.75	-	27.42	2.21	-
AV	2.4104G	100.93	Inf	-Inf	71.30	3	Horizontal	8	1.75	-	27.42	2.21	-

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2412MHz_TX



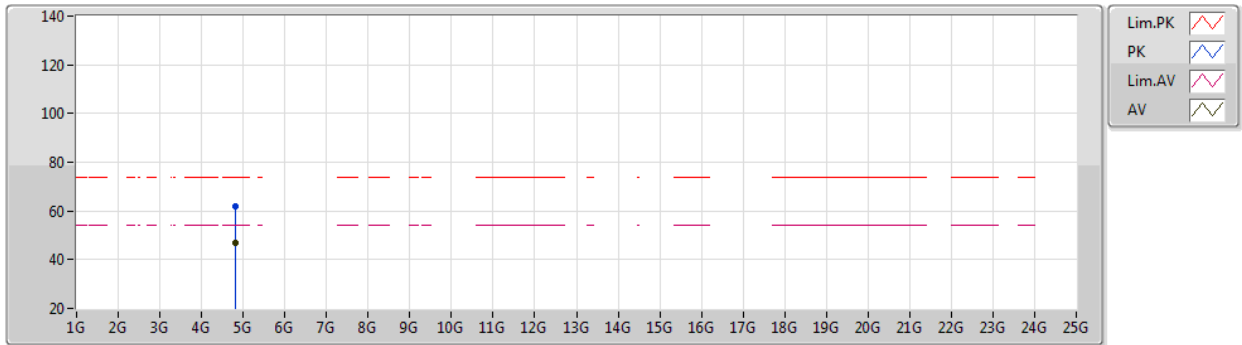
EUT V_3TX
Setting 18.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82192G	54.82	74.00	-19.18	52.31	3	Vertical	94	2.76	-	32.23	5.01	34.73
AV	4.82128G	40.76	54.00	-13.24	38.25	3	Vertical	94	2.76	-	32.23	5.01	34.73

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2412MHz_TX



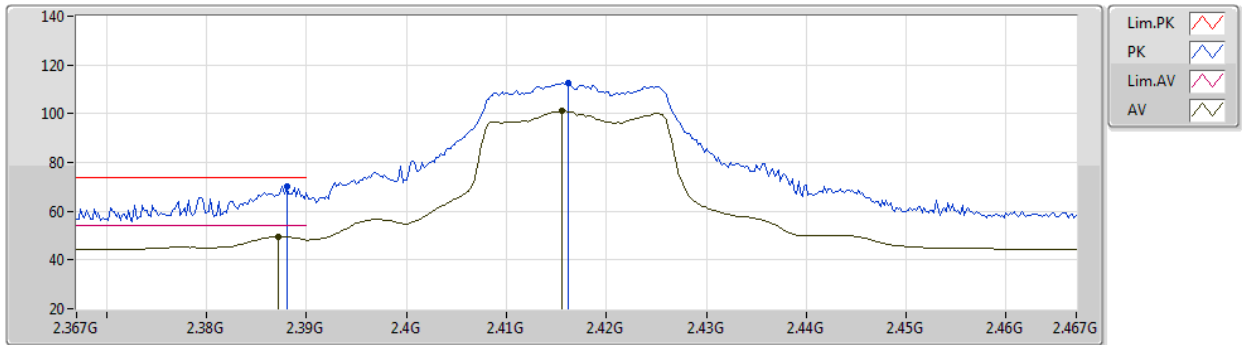
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Setting 18.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82208G	62.09	74.00	-11.91	59.58	3	Horizontal	194	1.45	-	32.23	5.01	34.73
AV	4.82176G	46.80	54.00	-7.20	44.29	3	Horizontal	194	1.45	-	32.23	5.01	34.73

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2417MHz_TX



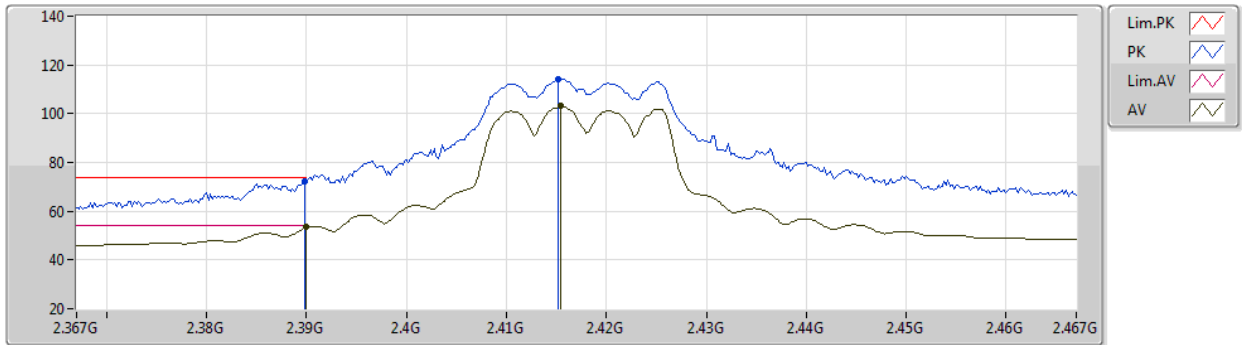
EUT Y_3TX
Setting 20.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	70.30	74.00	-3.70	40.73	3	Vertical	344	1.35	-	27.38	2.19	-
AV	2.3872G	49.60	54.00	-4.40	20.04	3	Vertical	344	1.35	-	27.37	2.19	-
PK	2.4162G	112.77	Inf	-Inf	83.12	3	Vertical	344	1.35	-	27.43	2.22	-
AV	2.4156G	101.19	Inf	-Inf	71.54	3	Vertical	344	1.35	-	27.43	2.22	-

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2417MHz_TX



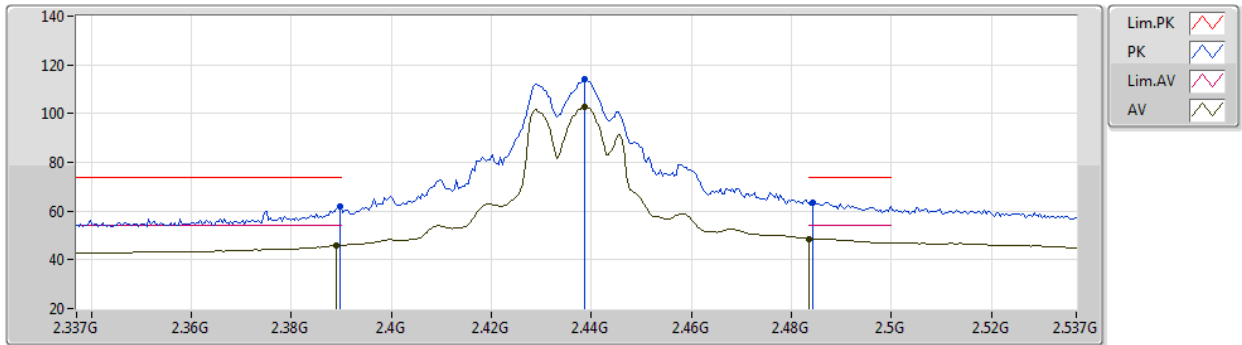
EUT Y_3TX
Setting 20.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	72.37	74.00	-1.63	42.80	3	Horizontal	3	1.79	-	27.38	2.19	-
AV	2.39G	53.37	54.00	-0.63	23.80	3	Horizontal	3	1.79	-	27.38	2.19	-
PK	2.4152G	114.16	Inf	-Inf	84.51	3	Horizontal	3	1.79	-	27.43	2.22	-
AV	2.4154G	103.04	Inf	-Inf	73.39	3	Horizontal	3	1.79	-	27.43	2.22	-

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2437MHz_TX



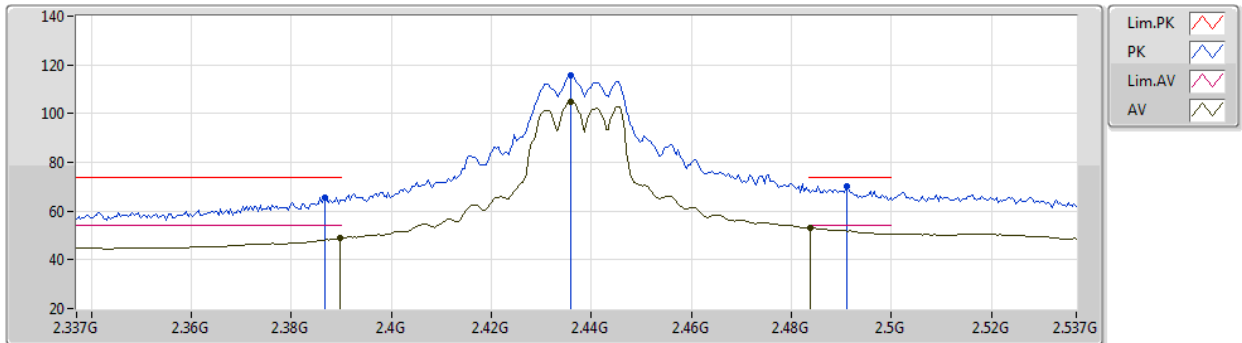
EUT Y_3TX
Setting 21.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	61.67	74.00	-12.33	32.10	3	Vertical	97	2.30	-	27.38	2.19	-
AV	2.389G	46.09	54.00	-7.91	16.52	3	Vertical	97	2.30	-	27.38	2.19	-
PK	2.4386G	114.37	Inf	-Inf	84.65	3	Vertical	97	2.30	-	27.48	2.24	-
AV	2.4386G	102.97	Inf	-Inf	73.25	3	Vertical	97	2.30	-	27.48	2.24	-
PK	2.4842G	63.70	74.00	-10.30	33.71	3	Vertical	97	2.30	-	27.71	2.28	-
AV	2.4835G	48.69	54.00	-5.31	18.71	3	Vertical	97	2.30	-	27.70	2.28	-

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2437MHz_TX

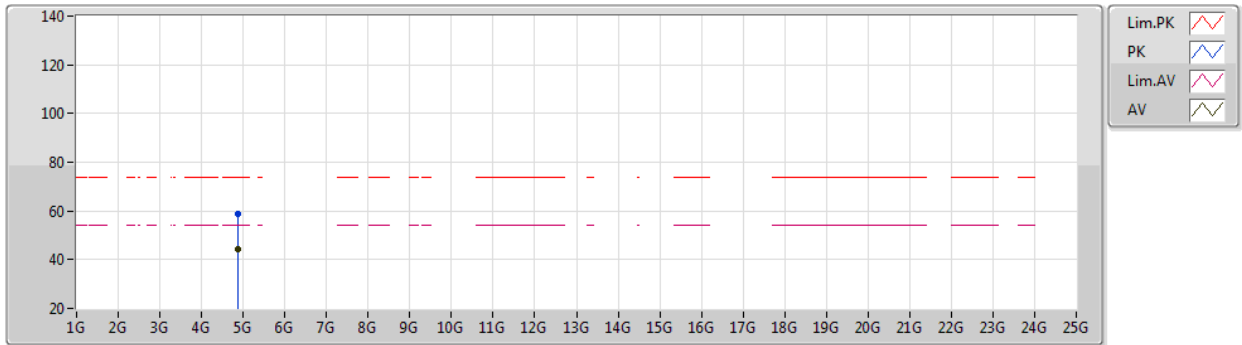

EUT Y_3TX
Setting 21.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3866G	65.71	74.00	-8.29	36.15	3	Horizontal	8	2.20	-	27.37	2.19	-
AV	2.3898G	48.74	54.00	-5.26	19.17	3	Horizontal	8	2.20	-	27.38	2.19	-
PK	2.4358G	115.52	Inf	-Inf	85.81	3	Horizontal	8	2.20	-	27.47	2.24	-
AV	2.4358G	104.63	Inf	-Inf	74.92	3	Horizontal	8	2.20	-	27.47	2.24	-
PK	2.491G	70.03	74.00	-3.97	39.99	3	Horizontal	8	2.20	-	27.75	2.29	-
AV	2.4838G	53.08	54.00	-0.92	23.10	3	Horizontal	8	2.20	-	27.70	2.28	-

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2437MHz_TX



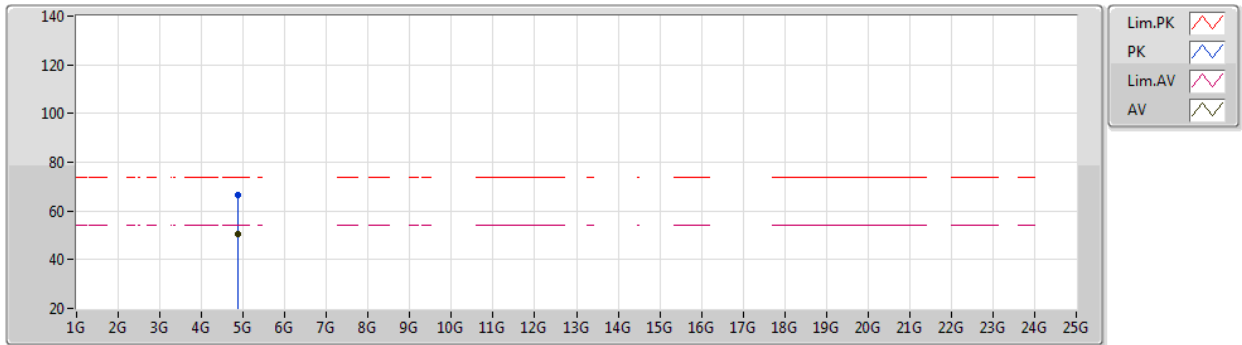
EUT V_3TX
Setting 21.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87192G	58.92	74.00	-15.08	56.13	3	Vertical	102	2.86	-	32.44	5.04	34.69
AV	4.87096G	44.46	54.00	-9.54	41.67	3	Vertical	102	2.86	-	32.44	5.04	34.69

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2437MHz_TX



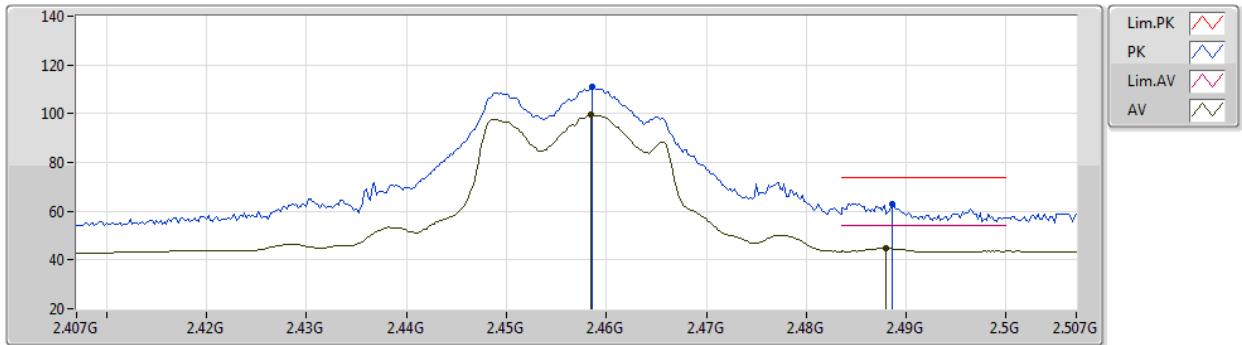
EUT V_3TX
Setting 21.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87656G	66.48	74.00	-7.52	63.67	3	Horizontal	186	1.41	-	32.45	5.04	34.68
AV	4.87176G	50.74	54.00	-3.26	47.95	3	Horizontal	186	1.41	-	32.44	5.04	34.69

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2457MHz_TX



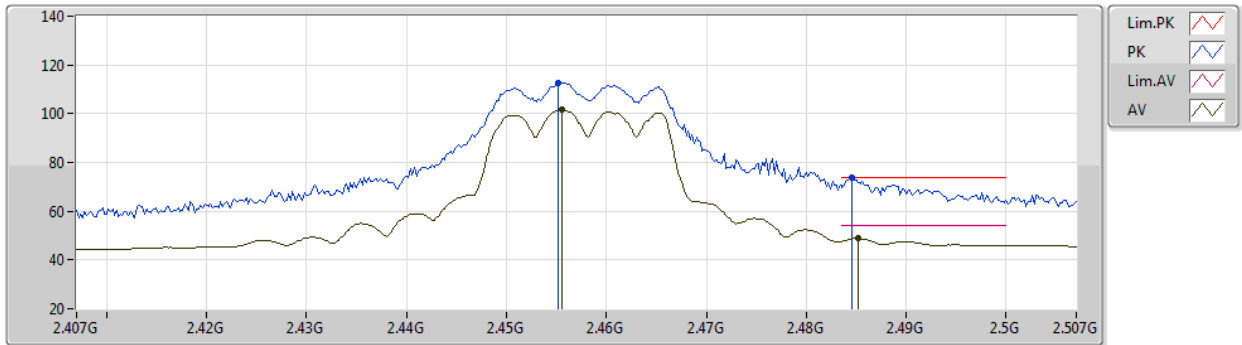
EUT Y_3TX
Setting 18.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4586G	110.80	Inf	-Inf	80.99	3	Vertical	87	1.86	-	27.55	2.26	-
AV	2.4584G	99.45	Inf	-Inf	69.64	3	Vertical	87	1.86	-	27.55	2.26	-
PK	2.4886G	62.99	74.00	-11.01	32.97	3	Vertical	87	1.86	-	27.73	2.29	-
AV	2.488G	44.74	54.00	-9.26	14.72	3	Vertical	87	1.86	-	27.73	2.29	-

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2457MHz_TX



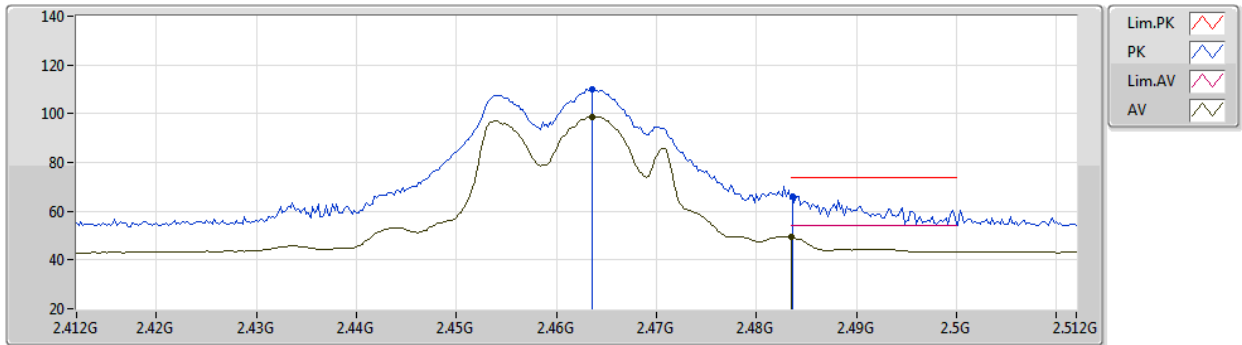
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Setting 18.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4552G	112.80	Inf	-Inf	83.01	3	Horizontal	356	1.98	-	27.53	2.26	-
AV	2.4556G	101.82	Inf	-Inf	72.03	3	Horizontal	356	1.98	-	27.53	2.26	-
PK	2.4846G	73.55	74.00	-0.45	43.56	3	Horizontal	356	1.98	-	27.71	2.28	-
AV	2.4852G	48.89	54.00	-5.11	18.89	3	Horizontal	356	1.98	-	27.71	2.29	-

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2462MHz_TX



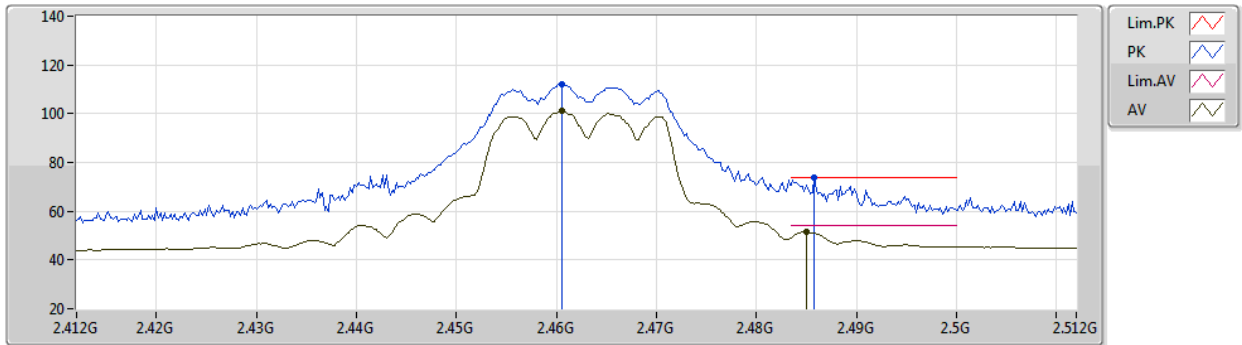
EUT Y_3TX
Setting 17.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4636G	110.19	Inf	-Inf	80.35	3	Vertical	89	2.06	-	27.58	2.26	-
AV	2.4636G	98.86	Inf	-Inf	69.02	3	Vertical	89	2.06	-	27.58	2.26	-
PK	2.4836G	65.98	74.00	-8.02	36.00	3	Vertical	89	2.06	-	27.70	2.28	-
AV	2.4835G	49.40	54.00	-4.60	19.42	3	Vertical	89	2.06	-	27.70	2.28	-

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2462MHz_TX



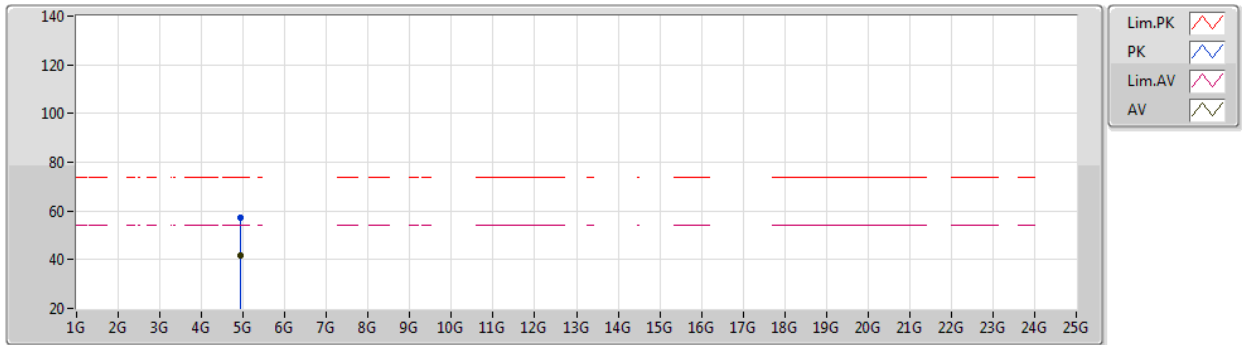
EUT Y_3TX
Setting 17.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4606G	112.11	Inf	-Inf	82.29	3	Horizontal	353	1.98	-	27.56	2.26	-
AV	2.4606G	101.00	Inf	-Inf	71.18	3	Horizontal	353	1.98	-	27.56	2.26	-
PK	2.4858G	73.70	74.00	-0.30	43.70	3	Horizontal	353	1.98	-	27.71	2.29	-
AV	2.485G	51.51	54.00	-2.49	21.51	3	Horizontal	353	1.98	-	27.71	2.29	-

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2462MHz_TX



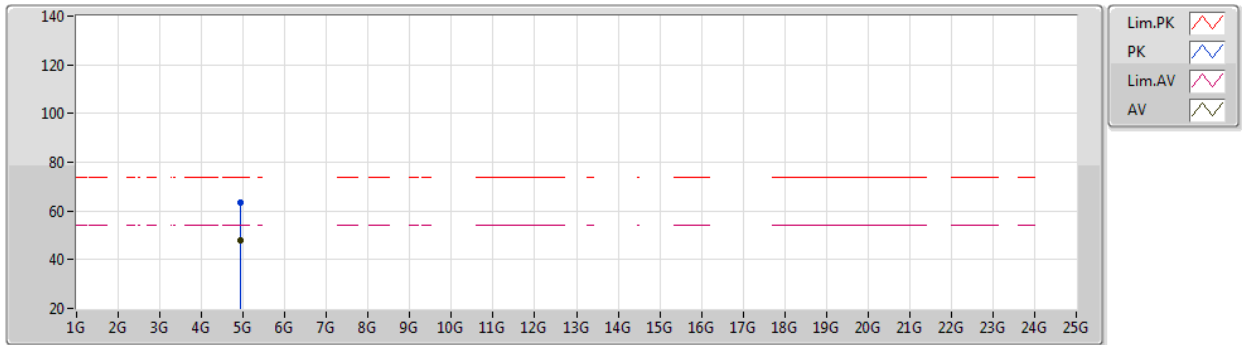
EUT V_3TX
Setting 17.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92208G	57.18	74.00	-16.82	54.13	3	Vertical	113	1.43	-	32.63	5.06	34.64
AV	4.92184G	41.63	54.00	-12.37	38.58	3	Vertical	113	1.43	-	32.63	5.06	34.64

802.11n HT20_Nss1,(MCS0)_3TX

30/11/2020

2462MHz_TX



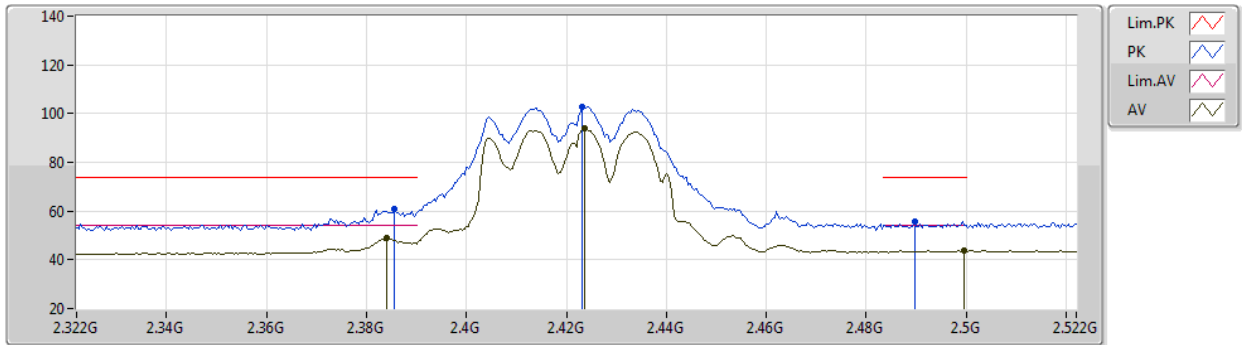
EUT Y_3TX
Setting 17.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92208G	63.64	74.00	-10.36	60.59	3	Horizontal	185	1.65	-	32.63	5.06	34.64
AV	4.9213G	48.03	54.00	-5.97	44.98	3	Horizontal	185	1.65	-	32.63	5.06	34.64

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2422MHz_TX



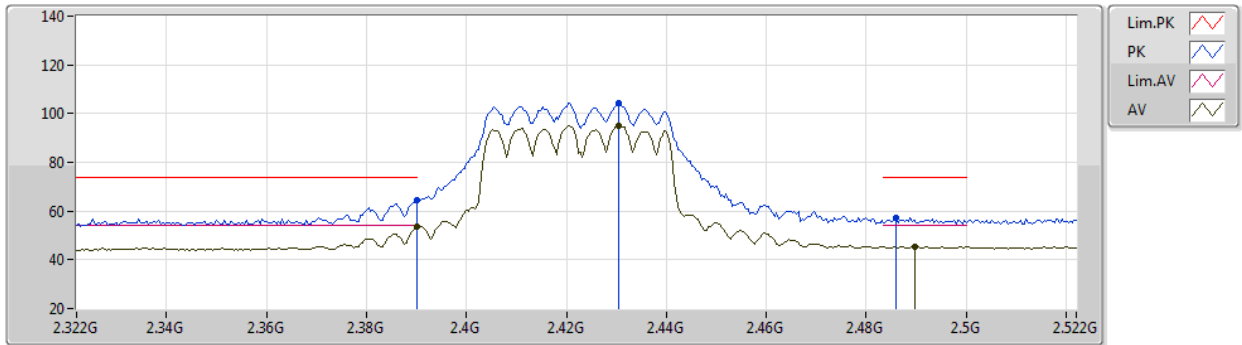
EUT V_3TX
Setting 13.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3856G	60.61	74.00	-13.39	31.05	3	Vertical	97	1.93	-	27.37	2.19	-
AV	2.384G	49.06	54.00	-4.94	19.51	3	Vertical	97	1.93	-	27.37	2.18	-
PK	2.4232G	102.84	Inf	-Inf	73.17	3	Vertical	97	1.93	-	27.45	2.22	-
AV	2.4236G	93.79	Inf	-Inf	64.12	3	Vertical	97	1.93	-	27.45	2.22	-
PK	2.4896G	55.91	74.00	-18.09	25.88	3	Vertical	97	1.93	-	27.74	2.29	-
AV	2.4996G	43.88	54.00	-10.12	13.78	3	Vertical	97	1.93	-	27.80	2.30	-

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2422MHz_TX

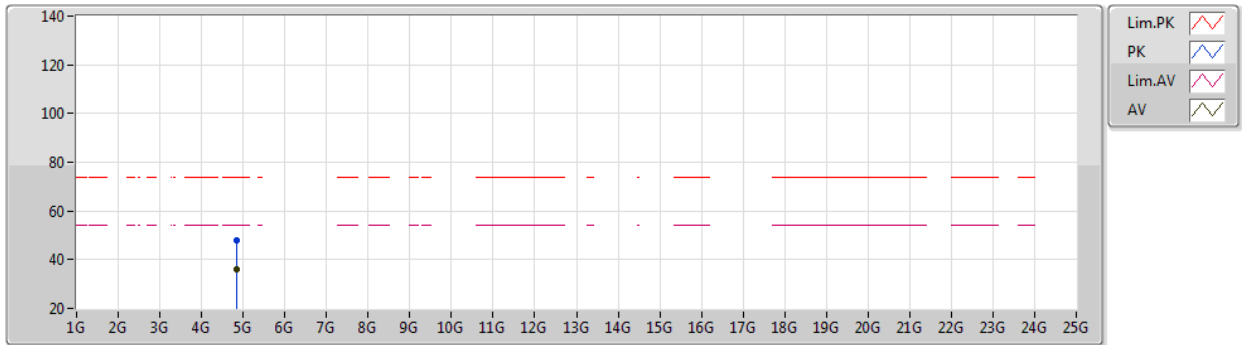

EUT Y_3TX
Setting 13.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	64.74	74.00	-9.26	35.17	3	Horizontal	6	1.80	-	27.38	2.19	-
AV	2.39G	53.55	54.00	-0.45	23.98	3	Horizontal	6	1.80	-	27.38	2.19	-
PK	2.4304G	104.37	Inf	-Inf	74.68	3	Horizontal	6	1.80	-	27.46	2.23	-
AV	2.4304G	95.15	Inf	-Inf	65.46	3	Horizontal	6	1.80	-	27.46	2.23	-
PK	2.486G	57.16	74.00	-16.84	27.15	3	Horizontal	6	1.80	-	27.72	2.29	-
AV	2.4896G	45.41	54.00	-8.59	15.38	3	Horizontal	6	1.80	-	27.74	2.29	-

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2422MHz_TX



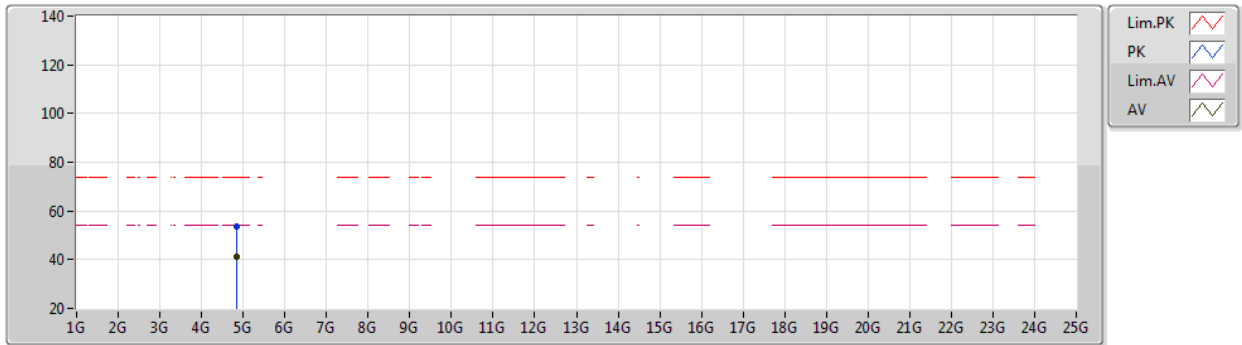
EUT V_3TX
Setting 13.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84048G	48.09	74.00	-25.91	45.44	3	Vertical	103	2.86	-	32.34	5.02	34.71
AV	4.85152G	36.20	54.00	-17.80	33.47	3	Vertical	103	2.86	-	32.40	5.03	34.70

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2422MHz_TX



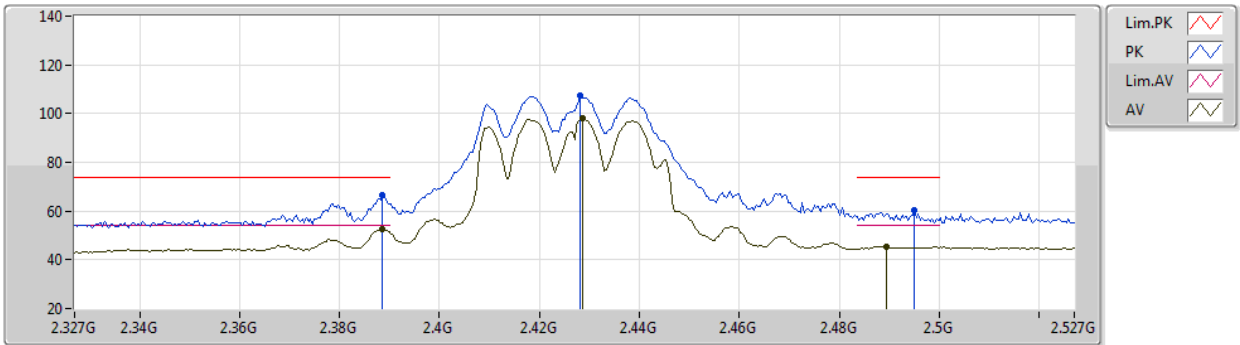
EUT V_3TX
Setting 13.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8408G	53.59	74.00	-20.41	50.94	3	Horizontal	191	1.56	-	32.34	5.02	34.71
AV	4.85184G	41.29	54.00	-12.71	38.56	3	Horizontal	191	1.56	-	32.40	5.03	34.70

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2427MHz_TX



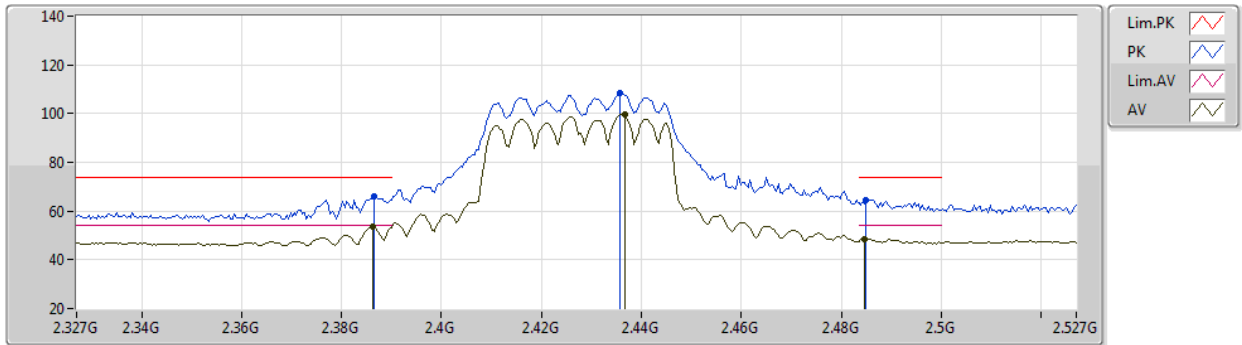
EUT Y_3TX
Setting 17.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	66.40	74.00	-7.60	36.83	3	Vertical	96	2.28	-	27.38	2.19	-
AV	2.3886G	52.43	54.00	-1.57	22.86	3	Vertical	96	2.28	-	27.38	2.19	-
PK	2.4282G	107.26	Inf	-Inf	77.57	3	Vertical	96	2.28	-	27.46	2.23	-
AV	2.4286G	97.96	Inf	-Inf	68.27	3	Vertical	96	2.28	-	27.46	2.23	-
PK	2.495G	60.18	74.00	-13.82	30.12	3	Vertical	96	2.28	-	27.77	2.29	-
AV	2.4894G	45.54	54.00	-8.46	15.51	3	Vertical	96	2.28	-	27.74	2.29	-

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2427MHz_TX



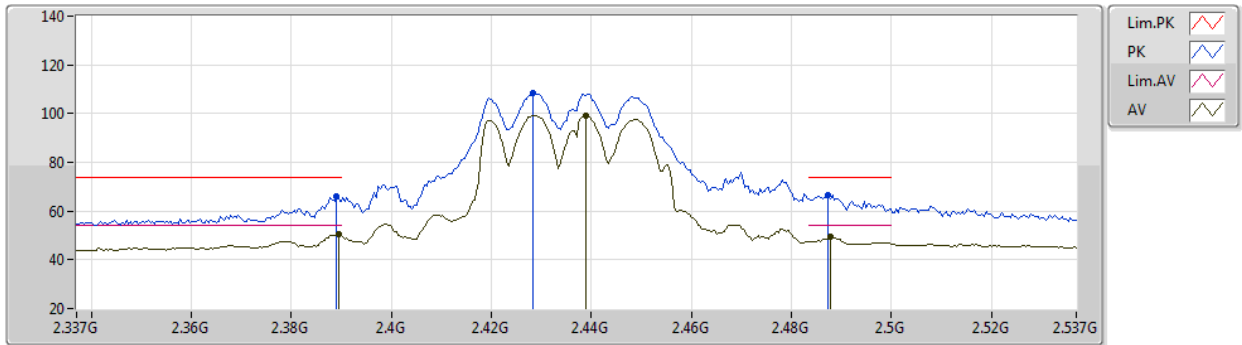
EUT Y_3TX
Setting 17.5
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3866G	66.29	74.00	-7.71	36.73	3	Horizontal	5	2.19	-	27.37	2.19	-
AV	2.3862G	53.83	54.00	-0.17	24.27	3	Horizontal	5	2.19	-	27.37	2.19	-
PK	2.4358G	108.50	Inf	-Inf	78.79	3	Horizontal	5	2.19	-	27.47	2.24	-
AV	2.4366G	99.55	Inf	-Inf	69.84	3	Horizontal	5	2.19	-	27.47	2.24	-
PK	2.485G	64.70	74.00	-9.30	34.70	3	Horizontal	5	2.19	-	27.71	2.29	-
AV	2.4846G	48.67	54.00	-5.33	18.68	3	Horizontal	5	2.19	-	27.71	2.28	-

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2437MHz_TX



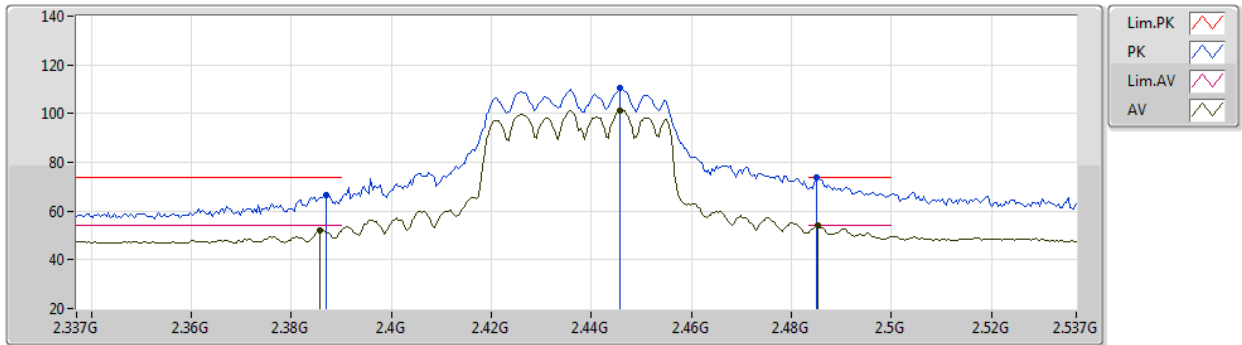
EUT Y_3TX
Setting 19.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	66.08	74.00	-7.92	36.51	3	Vertical	98	2.30	-	27.38	2.19	-
AV	2.3894G	50.54	54.00	-3.46	20.97	3	Vertical	98	2.30	-	27.38	2.19	-
PK	2.4282G	108.42	Inf	-Inf	78.73	3	Vertical	98	2.30	-	27.46	2.23	-
AV	2.439G	99.32	Inf	-Inf	69.60	3	Vertical	98	2.30	-	27.48	2.24	-
PK	2.4874G	66.54	74.00	-7.46	36.53	3	Vertical	98	2.30	-	27.72	2.29	-
AV	2.4878G	49.42	54.00	-4.58	19.40	3	Vertical	98	2.30	-	27.73	2.29	-

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2437MHz_TX



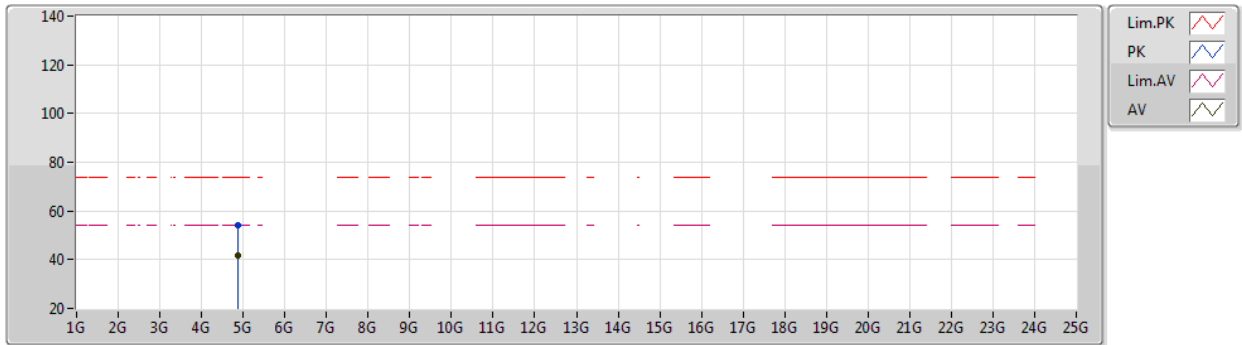
EUT Y_3TX
Setting 19.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	66.38	74.00	-7.62	36.82	3	Horizontal	357	2.20	-	27.37	2.19	-
AV	2.3858G	52.00	54.00	-2.00	22.44	3	Horizontal	357	2.20	-	27.37	2.19	-
PK	2.4458G	110.32	Inf	-Inf	80.58	3	Horizontal	357	2.20	-	27.49	2.25	-
AV	2.4458G	101.46	Inf	-Inf	71.72	3	Horizontal	357	2.20	-	27.49	2.25	-
PK	2.485G	73.63	74.00	-0.37	43.63	3	Horizontal	357	2.20	-	27.71	2.29	-
AV	2.4854G	53.95	54.00	-0.05	23.95	3	Horizontal	357	2.20	-	27.71	2.29	-

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2437MHz_TX



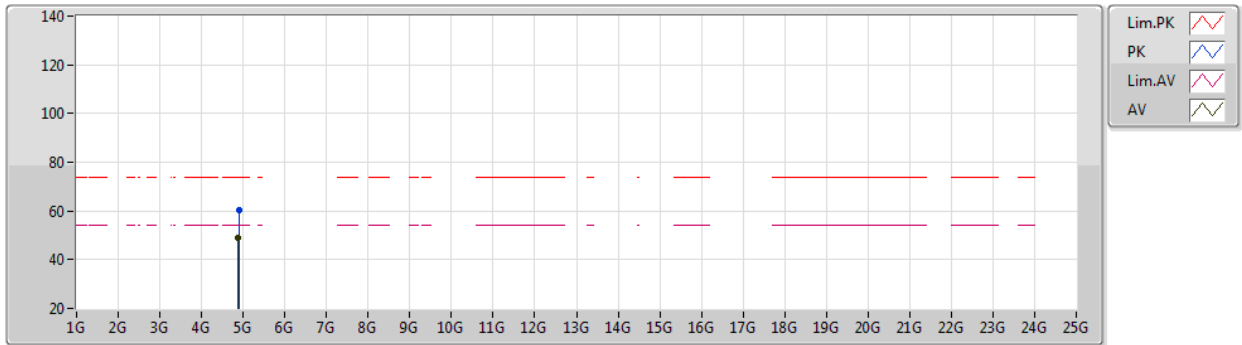
EUT V_3TX
Setting 19.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87064G	54.33	74.00	-19.67	51.54	3	Vertical	95	2.87	-	32.44	5.04	34.69
AV	4.87096G	41.67	54.00	-12.33	38.88	3	Vertical	95	2.87	-	32.44	5.04	34.69

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2437MHz_TX



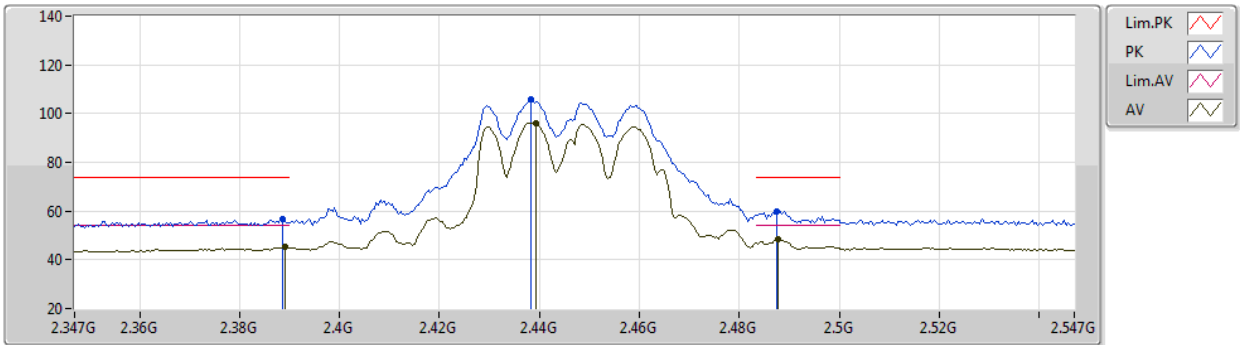
EUT V_3TX
Setting 19.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.89128G	60.21	74.00	-13.79	57.35	3	Horizontal	190	1.58	-	32.48	5.05	34.67
AV	4.882G	48.99	54.00	-5.01	46.17	3	Horizontal	190	1.58	-	32.46	5.04	34.68

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2447MHz_TX



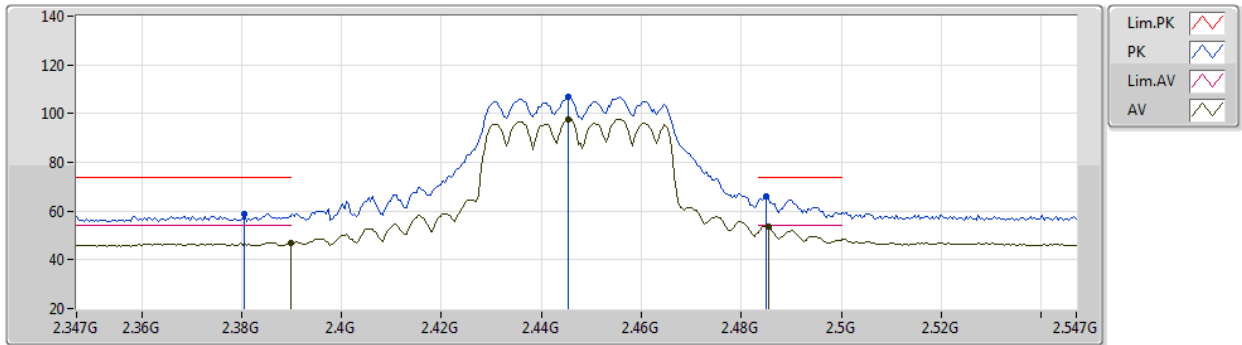
EUT V_3TX
Setting 16
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	56.76	74.00	-17.24	27.19	3	Vertical	97	2.30	-	27.38	2.19	-
AV	2.389G	45.16	54.00	-8.84	15.59	3	Vertical	97	2.30	-	27.38	2.19	-
PK	2.4382G	105.94	Inf	-Inf	76.22	3	Vertical	97	2.30	-	27.48	2.24	-
AV	2.4394G	95.97	Inf	-Inf	66.25	3	Vertical	97	2.30	-	27.48	2.24	-
PK	2.4874G	59.97	74.00	-14.03	29.96	3	Vertical	97	2.30	-	27.72	2.29	-
AV	2.4878G	48.47	54.00	-5.53	18.45	3	Vertical	97	2.30	-	27.73	2.29	-

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2447MHz_TX



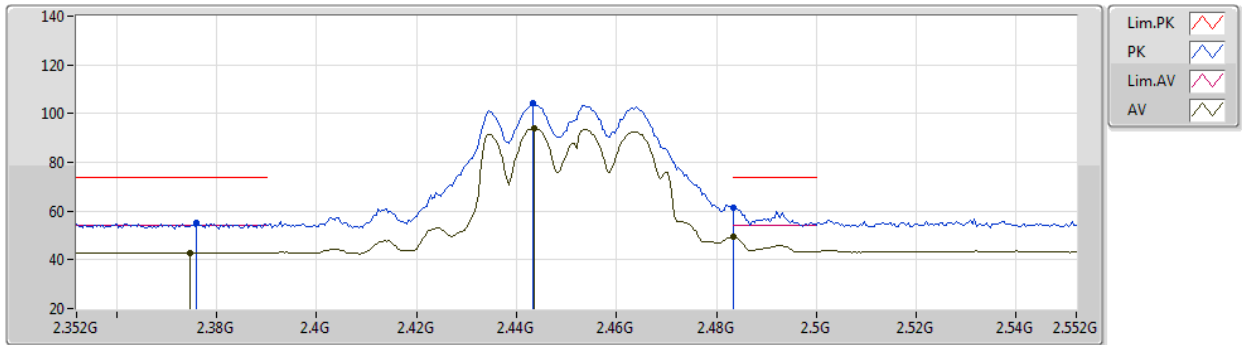
EUT Y_3TX
Setting 16
01-A-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3806G	58.70	74.00	-15.30	29.16	3	Horizontal	354	1.80	-	27.36	2.18	-
AV	2.3898G	47.07	54.00	-6.93	17.50	3	Horizontal	354	1.80	-	27.38	2.19	-
PK	2.4454G	107.05	Inf	-Inf	77.31	3	Horizontal	354	1.80	-	27.49	2.25	-
AV	2.4454G	97.69	Inf	-Inf	67.95	3	Horizontal	354	1.80	-	27.49	2.25	-
PK	2.485G	66.20	74.00	-7.80	36.20	3	Horizontal	354	1.80	-	27.71	2.29	-
AV	2.4854G	53.86	54.00	-0.14	23.86	3	Horizontal	354	1.80	-	27.71	2.29	-

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2452MHz_TX



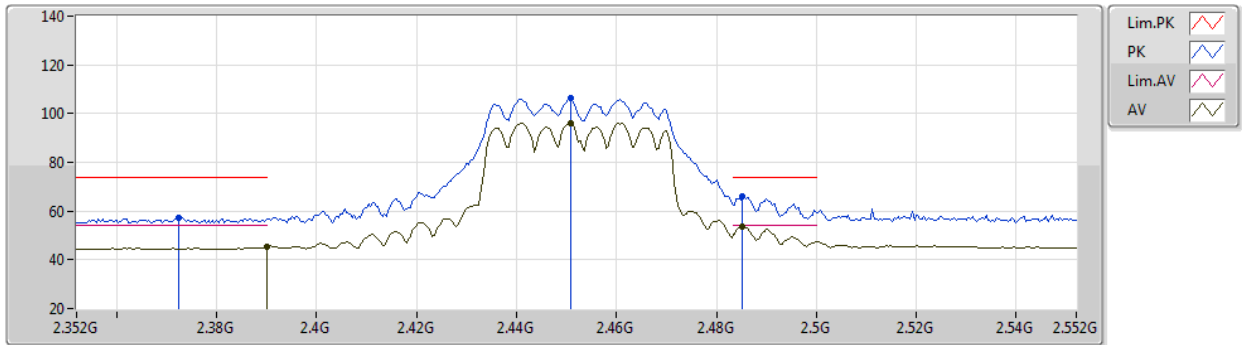
EUT Y_3TX
Setting 14.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.376G	55.08	74.00	-18.92	25.55	3	Vertical	94	2.19	-	27.35	2.18	-
AV	2.3748G	43.00	54.00	-11.00	13.48	3	Vertical	94	2.19	-	27.35	2.17	-
PK	2.4432G	104.31	Inf	-Inf	74.58	3	Vertical	94	2.19	-	27.49	2.24	-
AV	2.4436G	94.12	Inf	-Inf	64.39	3	Vertical	94	2.19	-	27.49	2.24	-
PK	2.4835G	61.15	74.00	-12.85	31.17	3	Vertical	94	2.19	-	27.70	2.28	-
AV	2.4835G	49.35	54.00	-4.65	19.37	3	Vertical	94	2.19	-	27.70	2.28	-

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2452MHz_TX



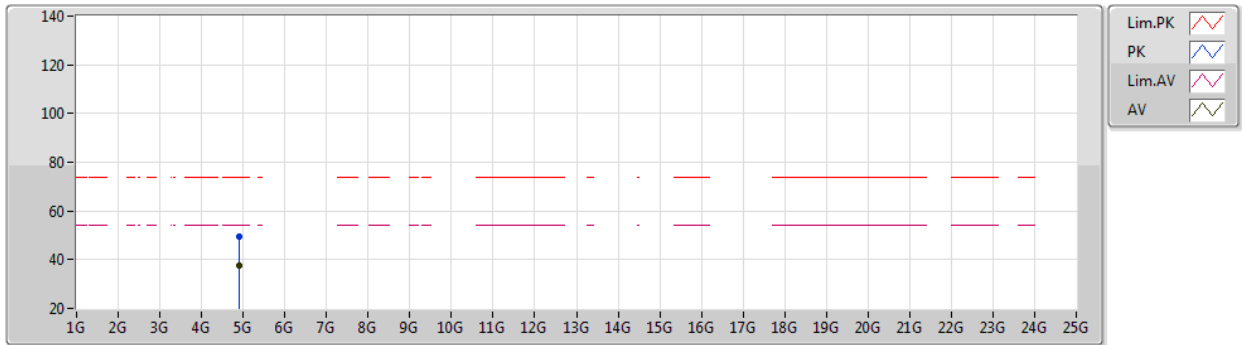
EUT Y_3TX
Setting 14.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3724G	57.06	74.00	-16.94	27.55	3	Horizontal	359	2.18	-	27.34	2.17	-
AV	2.39G	45.34	54.00	-8.66	15.77	3	Horizontal	359	2.18	-	27.38	2.19	-
PK	2.4508G	106.33	Inf	-Inf	76.58	3	Horizontal	359	2.18	-	27.50	2.25	-
AV	2.4508G	96.23	Inf	-Inf	66.48	3	Horizontal	359	2.18	-	27.50	2.25	-
PK	2.4852G	65.99	74.00	-8.01	35.99	3	Horizontal	359	2.18	-	27.71	2.29	-
AV	2.4852G	53.71	54.00	-0.29	23.71	3	Horizontal	359	2.18	-	27.71	2.29	-

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2452MHz_TX



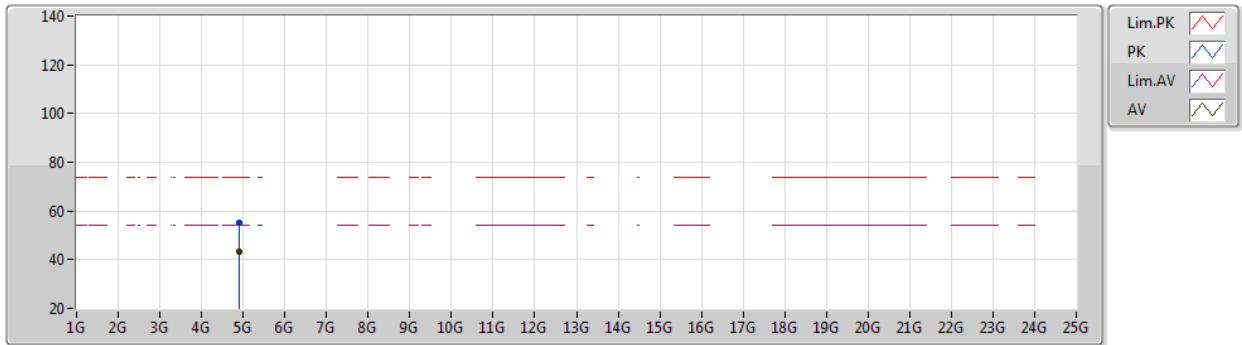
EUT V_3TX
Setting 14.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9026G	49.56	74.00	-24.44	46.65	3	Vertical	116	1.46	-	32.52	5.05	34.66
AV	4.9022G	37.41	54.00	-16.59	34.51	3	Vertical	116	1.46	-	32.51	5.05	34.66

802.11n HT40_Nss1,(MCS0)_3TX

30/11/2020

2452MHz_TX



EUT V_3TX
Setting 14.5
01-A-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9062G	55.17	74.00	-18.83	52.24	3	Horizontal	190	1.57	-	32.54	5.05	34.66
AV	4.902G	43.38	54.00	-10.62	40.48	3	Horizontal	190	1.57	-	32.51	5.05	34.66