FCC Test Report

Equipment	:	DVR
Brand Name	:	AT&T DIRECTV
Model No.	:	HR54-700
FCC ID	:	NQ8HR54
Standard	:	47 CFR FCC Part 15.247
Operating Band	:	2400 MHz – 2483.5 MHz
Function	:	☒ Point-to-multipoint; ☐ Point-to-point
Applicant	:	ARRIS Global Limited Victoria Road, Saltaire Shipley, West Yorkshire United Kingdom BD18 3LF
Manufacturer	:	ARRIS Global Limited Victoria Road, Saltaire Shipley, West Yorkshire United Kingdom BD18 3LF

The product sample received on Oct. 17, 2017 and completely tested on Mar. 20, 2018. We, SPORTON, 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., the test report shall not be reproduced except in full.

Cliff Chang
SPORTON INTERNATIONAL INC.

Testing Laboratory
1190

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Summary of Test Result

Conformance Test Specifications				
Report Clause	**Ref. Std. Clause**	**Description**	**Limit**	**Result**
1.1.2	15.203	Antenna Requirement	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	FCC 15.207	Complied
3.2	15.247(a)	DTS Bandwidth	≥500kHz	Complied
3.3	15.247(b)	Maximum Conducted Output Power	Power [dBm]:30	Complied
3.4	15.247(e)	Power Spectral Density	PSD [dBm/3kHz]:8	Complied
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	Non-Restricted Bands: > 30 dBc	Complied
3.6	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied

Revision History

Report No.	Version	Description	Issued Date
FR7O1724AA	Rev. 01	Initial issue of report	Jan. 18, 2018
FR7O1724AA	Rev. 02	Updated RSE results without serial port cable	Mar. 23, 2018
FR7O1724AA	Rev. 03	1.Revised the AC Conduction operating mode description 2.Updated the below 1GHz test result 3.Revised the below 1GHz operating mode description	Mar. 24, 2018
FR7O1724AA	Rev. 04	Update the company name and address of the applicant and Manufacturer	Jun. 15, 2018

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	1TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	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.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Brand	Part Number	Antenna Type	Connector
1	Airgain	N2425ARHRA-245	PIFA Antenna	I-PEX
2	Airgain	N2425ARHRD-205	PIFA Antenna	I-PEX
3	-	-	Printed Antenna	-
4	-	-	Printed Antenna	-

Frequency (MHz)	Ant. 1 Gain (dBi)	Ant. 2 Gain (dBi)	Composite Gain (dBi)
2400	3.0	3.4	5.2
2410	2.9	3.4	
2420	2.7	3.4	
2430	2.5	3.4	
2440	2.7	3.3	
2450	2.8	3.4	
2460	2.9	3.5	
2470	3.1	3.5	
2480	3.4	3.6	
2490	3.5	3.6	
5150	4.3	4.0	5.7
5200	3.7	4.2	
5300	5.0	3.6	5.4
5400	5.9	4.7	
5500	5.9	4.0	5.2
5600	5.2	4.0	
5700	4.4	3.1	
5800	3.9	3.9	6.2
5850	4.2	4.2	

Frequency (MHz)	Ant. 3 Gain (dBi)	Ant. 4 Gain (dBi)
2400	3.84	3.62
2412	3.86	3.68
2424	3.86	3.65
2436	3.88	3.74
2448	3.94	3.92
2450	3.93	3.95
2460	3.79	3.84
2472	3.75	3.71
2484	3.61	3.74
2496	3.52	3.76
2500	3.50	3.77

Note: Ant. 1 ~ Ant. 2 connect to port 1 ~ port 2 for 2.4GHz and 5GHz

Ant. 3 connects to port 2 and Ant. 4 connects to port 1 for RF4CE

<For 2.4GHz function>

For IEEE 802.11b/g mode <1TX/1RX>:

The EUT supports the antenna with TX and RX diversity functions.

Both port 1 and port 2 support transmit and receive functions, but only one of them will be used at one time.

The port 2 generated the worst case, so it was selected to test and record in the report.

For IEEE 802.11n mode <2TX/2RX>:

port 1 and port 2 will transmit/receive the same signal simultaneously.

port 1 and port 2 can be used as transmitting/receiving antennas.

<For 5GHz function>

For IEEE 802.11a mode <1TX/1RX>:

The EUT supports the antenna with TX and RX diversity functions.

Both port 1 and port 2 support transmit and receive functions, but only one of them will be used at one time.

The port 2 generated the worst case, so it was selected to test and record in the report.

For IEEE 802.11an mode <2TX/2RX>:

port 1 and port 2 will transmit/receive the same signal simultaneously.

port 1 and port 2 can be used as transmitting/receiving antennas.

<For RF4CE funciton>

For RF4CE mode <1TX/1RX>:

The EUT supports the antenna with TX and RX diversity functions.

Both port 1 and port 2 support transmit and receive functions, but only one of them will be used at one time.

The port 1 generated the worst case, so it was selected to test and record in the report.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.998	0.009	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.987	0.057	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20	0.983	0.074	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40	0.953	0.209	1.928m	1k

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Test Software Version	Tera Term Version:4.75			

1.2 Testing Applied 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
- FCC KDB 558074 D01 v04
- FCC KDB 662911 D01 v02r01
- FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location			
☐	HWA YA	ADD :	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
		TEL :	886-3-327-3456 FAX : 886-3-318-0055
☒	JHUBEI	ADD :	No.8, Lane 724, Bo-ai St., Jhubei 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	Test Date
RF Conducted	TH01-CB	Ron Huang & Serway Li	20°C / 55%	Oct. 30, 2017
Radiated below 1GHz	03CH01-CB	Gino Huang & Zero Chen & Mason Chen	22°C / 54%	Mar. 20, 2018
Radiated above 1GHz	03CH01-CB	Gino Huang & Zero Chen & Mason Chen	22°C / 54%	Oct. 18, 2017 ~ Nov. 02, 2017
AC Conduction	CO01-CB	Tony Chang	24°C / 58%	Nov. 02, 2017

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

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74 x10^{-8}	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	88
2437MHz	88
2462MHz	89
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	74
2437MHz	91
2462MHz	75
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	75
2437MHz	89
2462MHz	77
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	59
2437MHz	77
2452MHz	73

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 - 2.4GHz (802.11g CH6, power level: 91)

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 - 2.4GHz (802.11g CH6, power level: 91)
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 + RF4CE
2	WLAN 5GHz + RF4CE
Refer to Sporton Test Report No.: FA7O1724 for Co-location RF Exposure Evaluation.	

Note1: The EUT can only use Z axis position.
Note2: All the specification of test configurations and test modes were based on customer's request.

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	DIRECTV	EPS44R3-15	INPUT: 120V ~ 1.3A, 60Hz OUTPUT: 12V, 4A 48W

2.5 Support Equipment

For Test Site No: CO01-CB

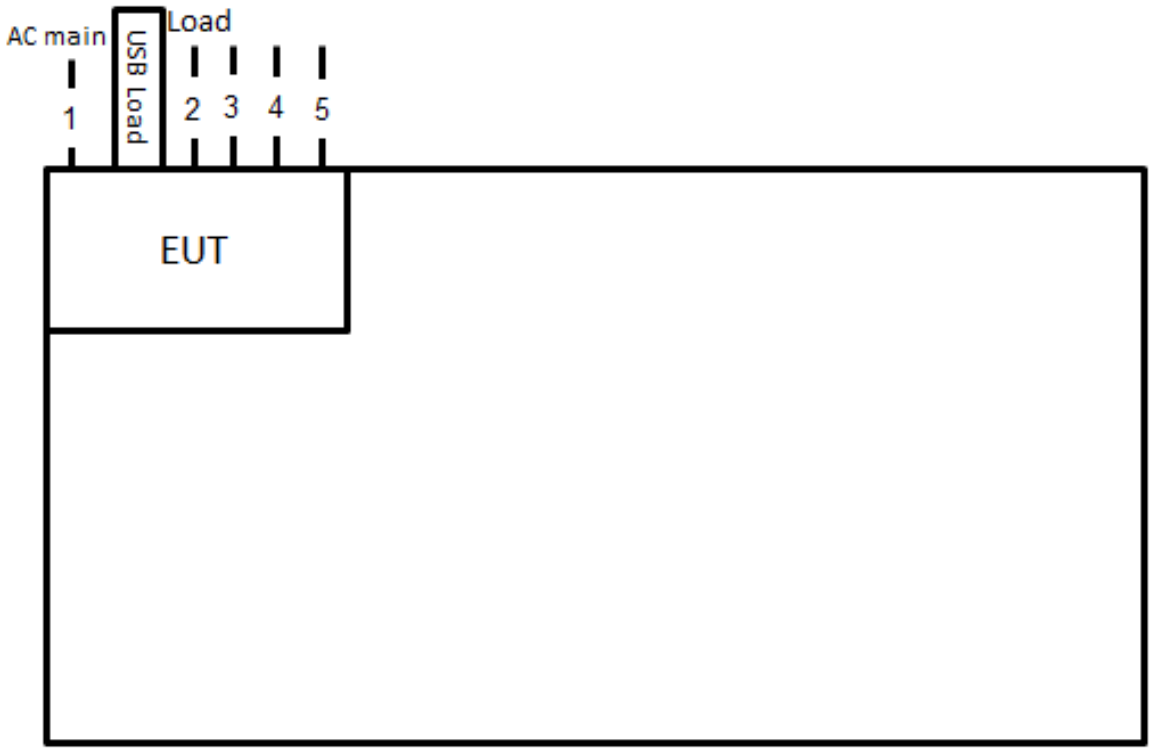
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Flash disk	Silicon	I-Series	DoC
2	Hard disk	Western Digital	WD10EURX-63UY4Y0	N/A

For Test Site No: 03CH01-CB and TH01-CB

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB	DELL	E4300	DoC
2	Hard disk	Western Digital	WD10EURX-63UY4Y0	N/A

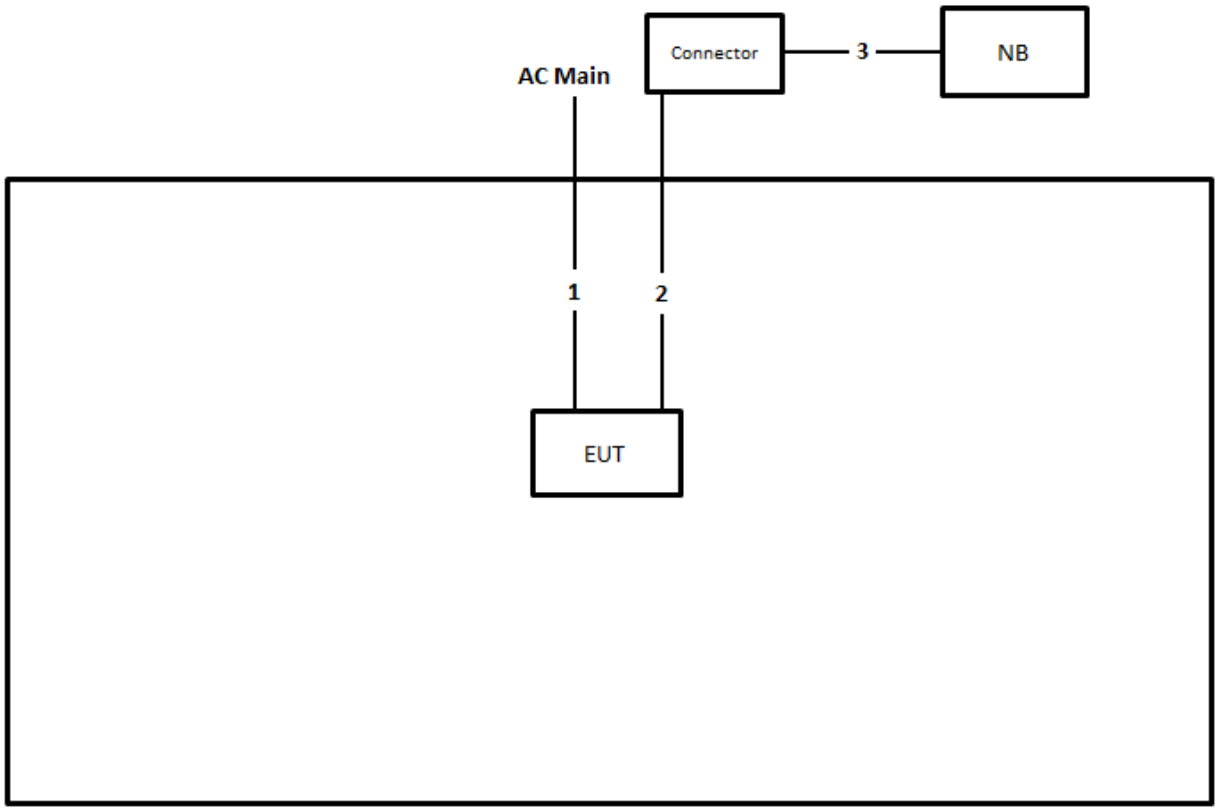
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length
1	Power cable	No	3.2m
2	RJ-45 cable	No	1.5m
3	HDMI cable	Yes	1.5m
4	Optical fiber	No	1.5m
5	Coaxial cable	Yes	1.5m

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length
1	Power cable	No	3.2m
2	RS232 to USB cable	No	0.45m
3	USB cable	No	1.8m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

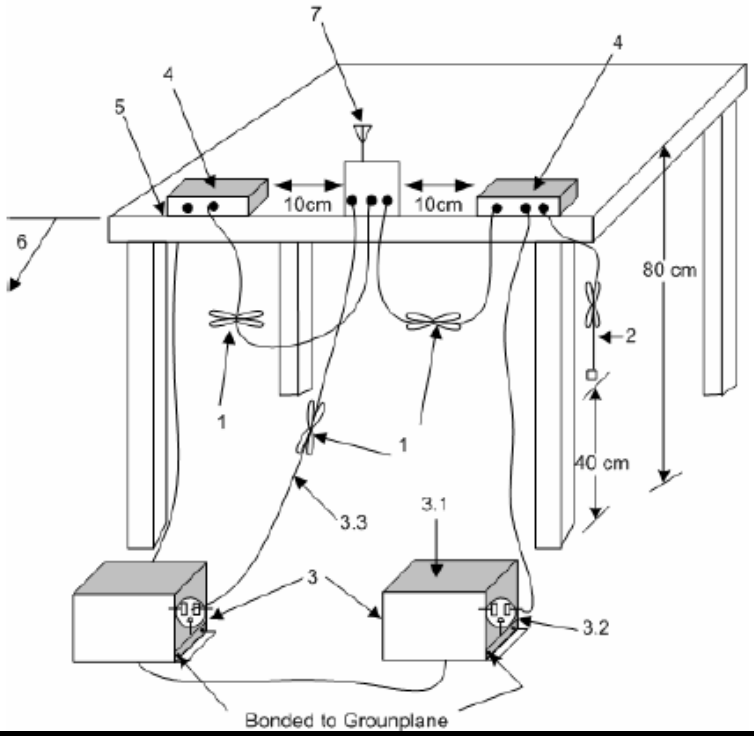
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

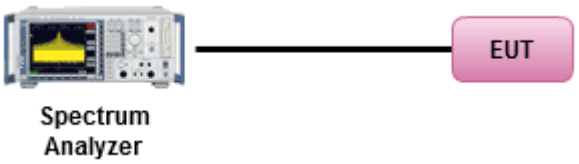
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
	☐ Refer as FCC KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
	☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
	☐ Refer as FCC KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)
▪ Maximum Conducted Output Power	
	[duty cycle ≥ 98% or external video / power trigger]
	☐ Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
	☐ Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)
	duty cycle < 98% and average over on/off periods with duty factor
	☐ Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
	☐ Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
	RF power meter and average over on/off periods with duty factor or gated trigger
	☒ Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM-G (using an RF average power meter).
	☐ Refer as FCC KDB 558074, clause 9.1.2 PKPM1 Peak power meter method.
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

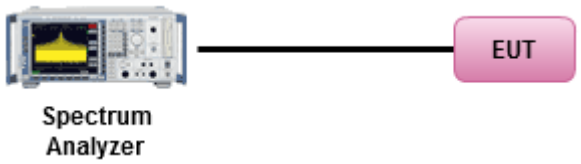
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).		
	☒ Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).	
	[duty cycle ≥ 98% or external video / power trigger]	
	☐ Refer as FCC KDB 558074, clause 10.3 Method AVGPSD-1 (spectral trace averaging).	
	☐ Refer as FCC KDB 558074, clause 10.4 Method AVGPSD-2 (slow sweep speed)	
	duty cycle < 98% and average over on/off periods with duty factor	
	☐ Refer as FCC KDB 558074, clause 10.5 Method AVGPSD-1 Alt (spectral trace averaging).	
	☐ Refer as FCC KDB 558074, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed)	
▪ For conducted measurement.		
	▪ If The EUT supports multiple transmit chains using options given below:	
		☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
		☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
		☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dB)**
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

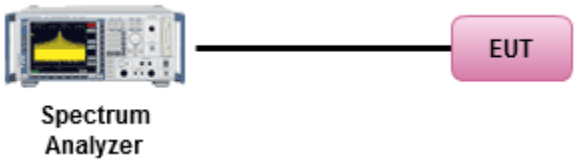
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
▪ Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

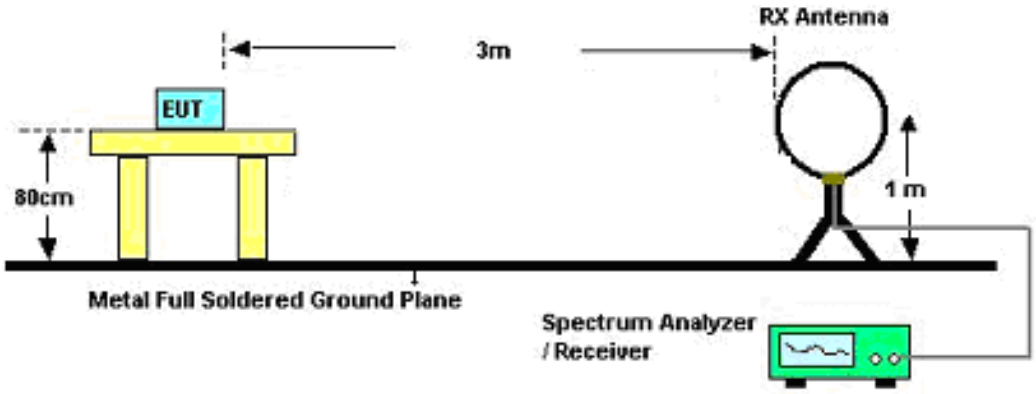
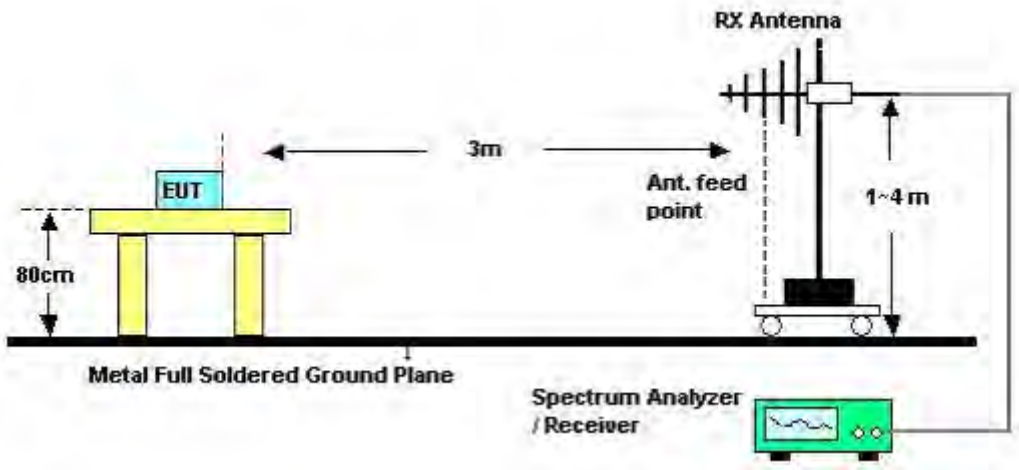
3.6.2 Measuring Instruments

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

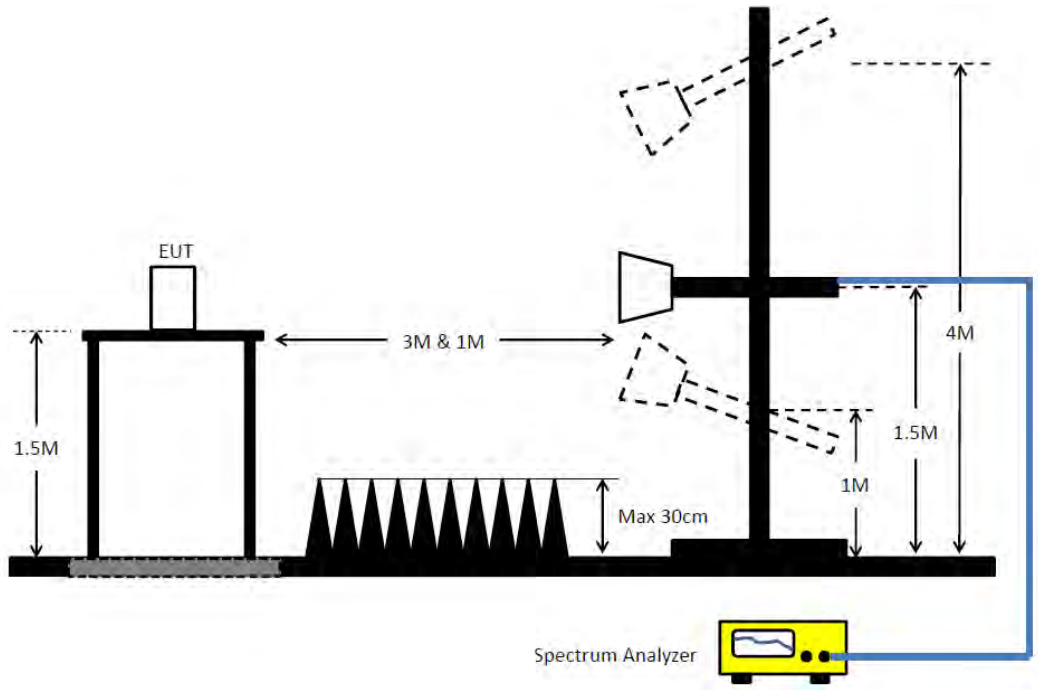
3.6.3 Test Procedures

Test Method		
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
▪ Refer as ANSI C63.10, clause 6.9.2.2 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 12 for unwanted emissions into restricted bands.	
		☐ Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle ≥98%)
		☐ Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
		☒ Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW≥1/T).
		☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
		☒ Refer as FCC KDB 558074, clause 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 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 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements.	
	▪ Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).	
▪ For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2.		
	▪ 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

Transmitter Radiated Emissions
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Jan. 22, 2018	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz~100MHz	Dec. 14, 2016	Dec. 13, 2017	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Dec. 20, 2017	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-CB
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Nov. 09, 2017	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Jan. 15, 2018	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Nov. 21, 2017	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Dec. 25, 2017	Conducted (TH01-CB)

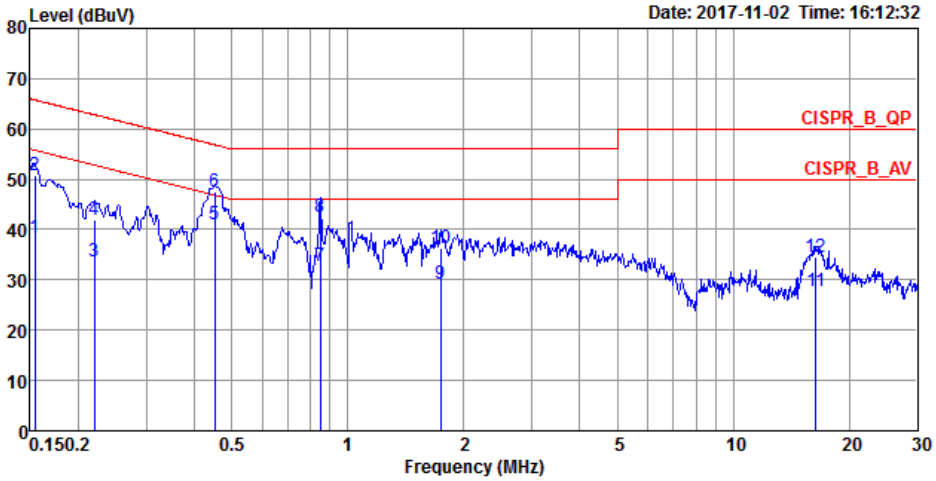
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Nov. 21, 2017	Conducted (TH01-CB)

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

*Calibration Interval of instruments listed above is two year.

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

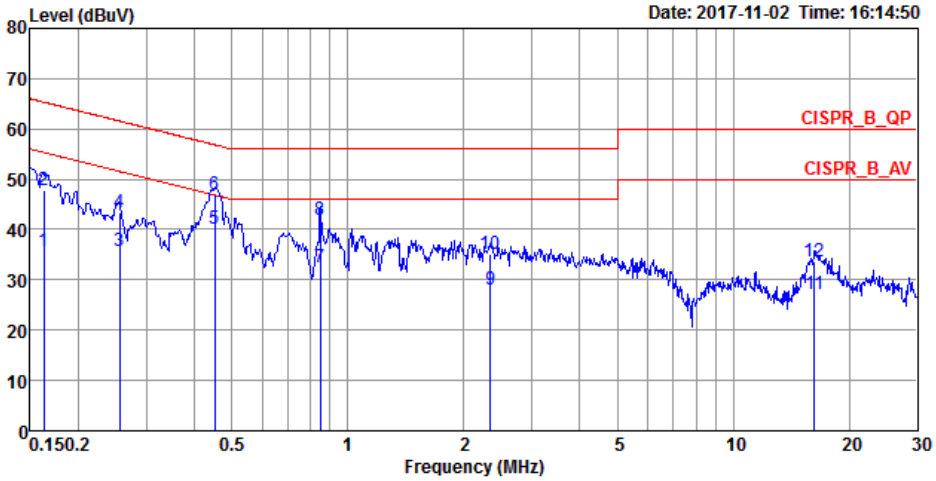
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	CTX - EUT 2.4GHz (802.11g CH6, power level: 91)		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1540	38.41	-17.37	55.78	28.25	10.00	0.16	Average	LINE
2	0.1540	50.69	-15.09	65.78	40.53	10.00	0.16	QP	LINE
3	0.2197	33.63	-19.20	52.83	23.60	9.92	0.11	Average	LINE
4	0.2197	41.88	-20.95	62.83	31.85	9.92	0.11	QP	LINE
5	0.4515	41.12	-5.73	46.85	31.14	9.95	0.03	Average	LINE
6	0.4515	47.60	-9.25	56.85	37.62	9.95	0.03	QP	LINE
7	0.8483	32.89	-13.11	46.00	22.77	9.96	0.16	Average	LINE
8	0.8483	42.40	-13.60	56.00	32.28	9.96	0.16	QP	LINE
9	1.7437	29.20	-16.80	46.00	19.03	9.96	0.21	Average	LINE
10	1.7437	36.42	-19.58	56.00	26.25	9.96	0.21	QP	LINE
11	16.3985	27.81	-22.19	50.00	17.36	10.26	0.19	Average	LINE
12	16.3985	34.41	-25.59	60.00	23.96	10.26	0.19	QP	LINE

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	CTX - EUT 2.4GHz (802.11g CH6, power level: 91)		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1624	35.69	-19.65	55.34	25.44	10.10	0.15	Average	NEUTRAL
2	0.1624	47.93	-17.41	65.34	37.68	10.10	0.15	QP	NEUTRAL
3	0.2562	35.85	-15.71	51.56	25.68	10.08	0.09	Average	NEUTRAL
4	0.2562	43.29	-18.27	61.56	33.12	10.08	0.09	QP	NEUTRAL
5	0.4511	40.20	-6.66	46.86	29.93	10.24	0.03	Average	NEUTRAL
6	0.4511	46.90	-9.96	56.86	36.63	10.24	0.03	QP	NEUTRAL
7	0.8483	32.55	-13.45	46.00	22.29	10.10	0.16	Average	NEUTRAL
8	0.8483	41.83	-14.17	56.00	31.57	10.10	0.16	QP	NEUTRAL
9	2.3460	27.99	-18.01	46.00	17.86	9.95	0.18	Average	NEUTRAL
10	2.3460	35.06	-20.94	56.00	24.93	9.95	0.18	QP	NEUTRAL
11	16.2256	27.24	-22.76	50.00	16.76	10.29	0.19	Average	NEUTRAL
12	16.2256	33.68	-26.32	60.00	23.20	10.29	0.19	QP	NEUTRAL

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

For 1TX
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	8.05M	10.195M	10M2G1D	7.55M	10.07M
802.11g_Nss1,(6Mbps)_1TX	16.325M	17.191M	17M2D1D	16.3M	16.592M

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;

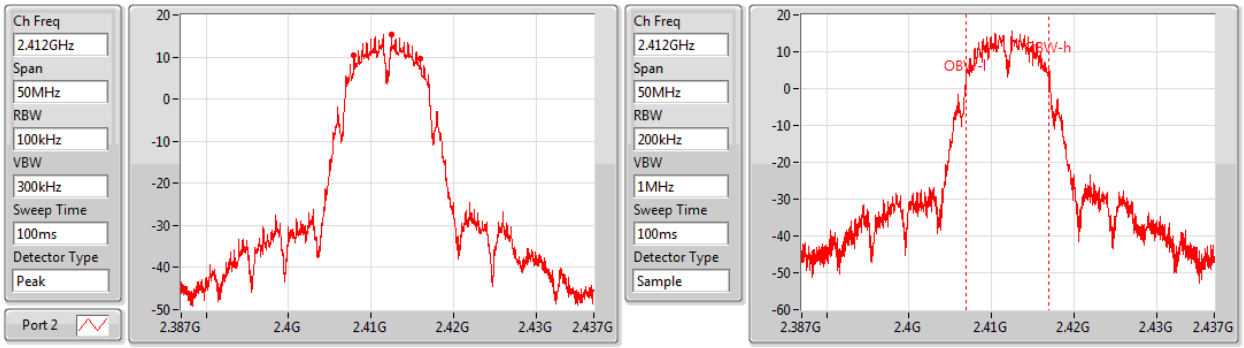
Result

Mode	Result	Limit (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	8M	10.07M
2437MHz	Pass	500k	8.05M	10.12M
2462MHz	Pass	500k	7.55M	10.195M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.325M	16.592M
2437MHz	Pass	500k	16.3M	17.191M
2462MHz	Pass	500k	16.325M	16.592M

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

802.11b_Nss1,(1Mbps)_1TX EBW

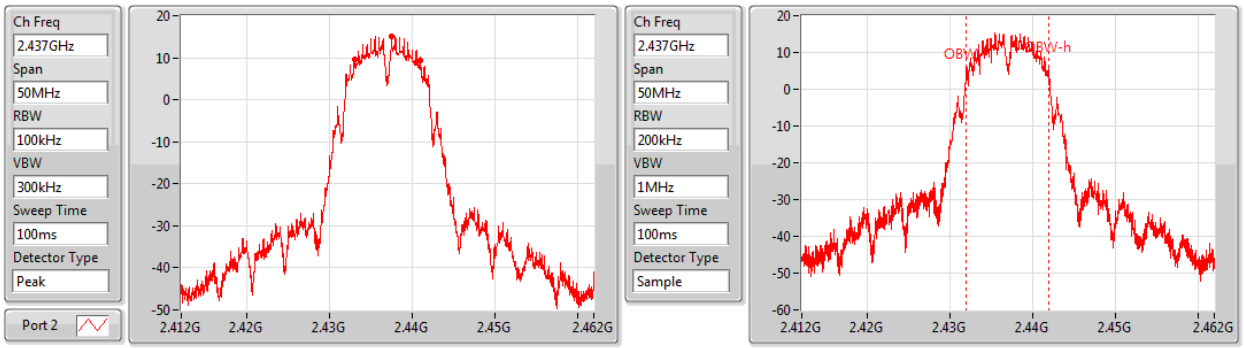
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8M	2.40795G	2.41595G	10.07M	2.406928G	2.416998G	500k	2

802.11b_Nss1,(1Mbps)_1TX EBW

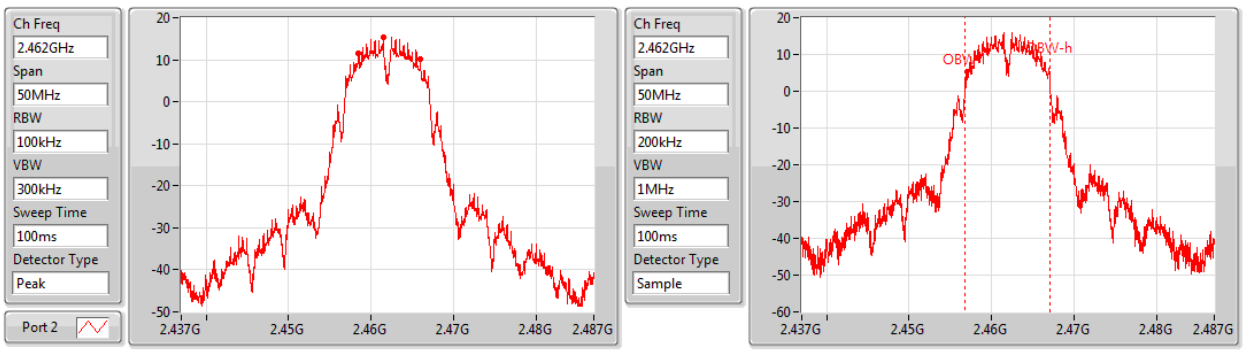
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.05M	2.432975G	2.441025G	10.12M	2.431878G	2.441998G	500k	2

802.11b_Nss1,(1Mbps)_1TX EBW

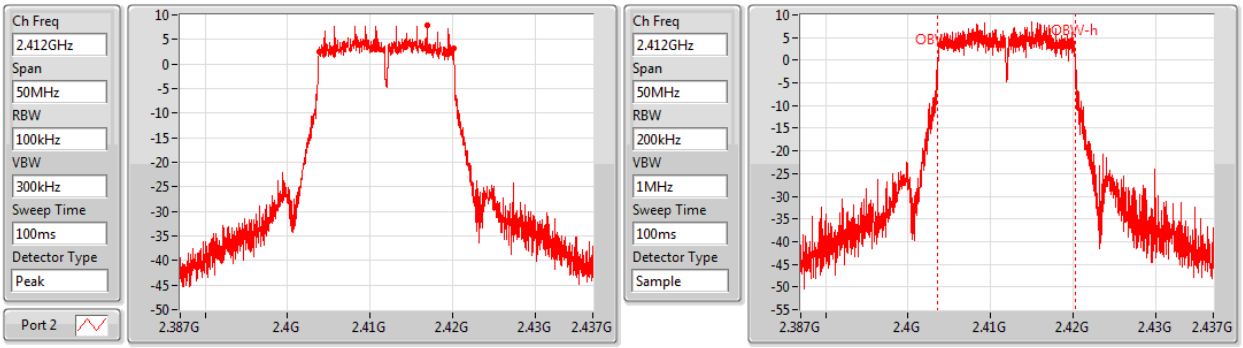
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.55M	2.45845G	2.466G	10.195M	2.456828G	2.467022G	500k	2

802.11g_Nss1,(6Mbps)_1TX **EBW**

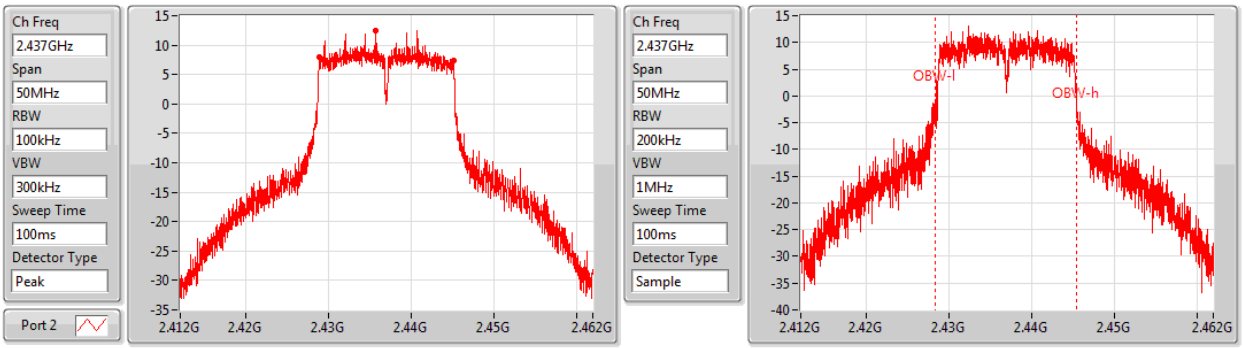
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.4038G	2.420125G	16.592M	2.403629G	2.420221G	500k	2

802.11g_Nss1,(6Mbps)_1TX **EBW**

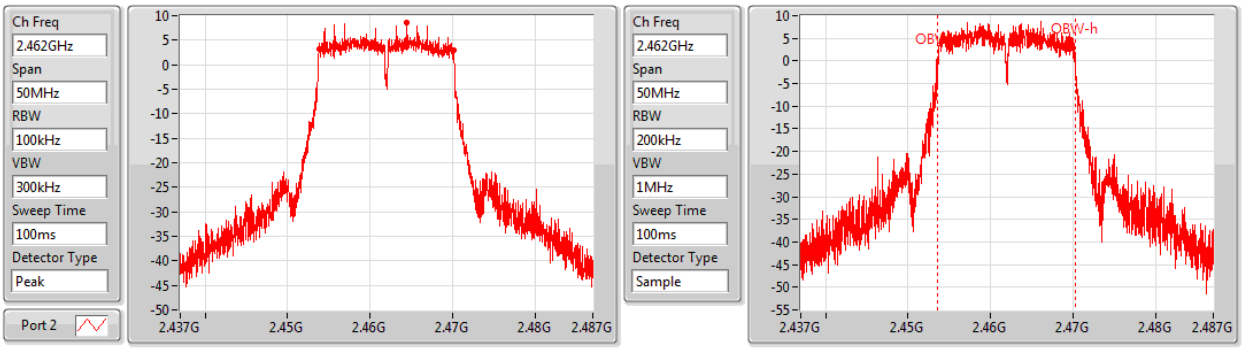
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	2.428825G	2.445125G	17.191M	2.428304G	2.445496G	500k	2

802.11g_Nss1,(6Mbps)_1TX **EBW**

2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.4538G	2.470125G	16.592M	2.453629G	2.470221G	500k	2

For 2TX

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_2TX	17.6M	17.841M	17M8D1D	17.55M	17.641M
802.11n HT40_Nss1,(MCS0)_2TX	35.65M	36.132M	36M1D1D	35.3M	36.082M

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;

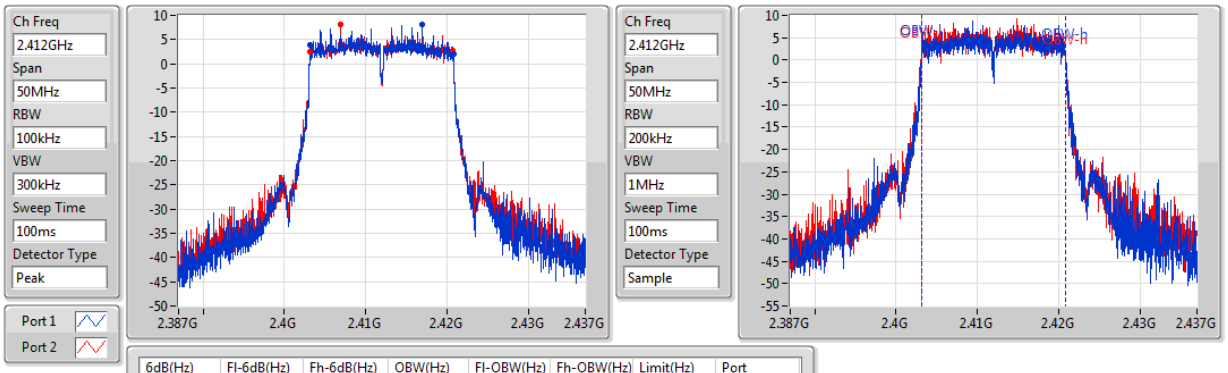
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.575M	17.666M	17.55M	17.666M
2437MHz	Pass	500k	17.6M	17.791M	17.55M	17.841M
2462MHz	Pass	500k	17.55M	17.666M	17.55M	17.641M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.65M	36.082M	35.3M	36.082M
2437MHz	Pass	500k	35.65M	36.082M	35.45M	36.082M
2452MHz	Pass	500k	35.3M	36.132M	35.3M	36.132M

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

802.11n HT20_Nss1,(MCS0)_2TX EBW

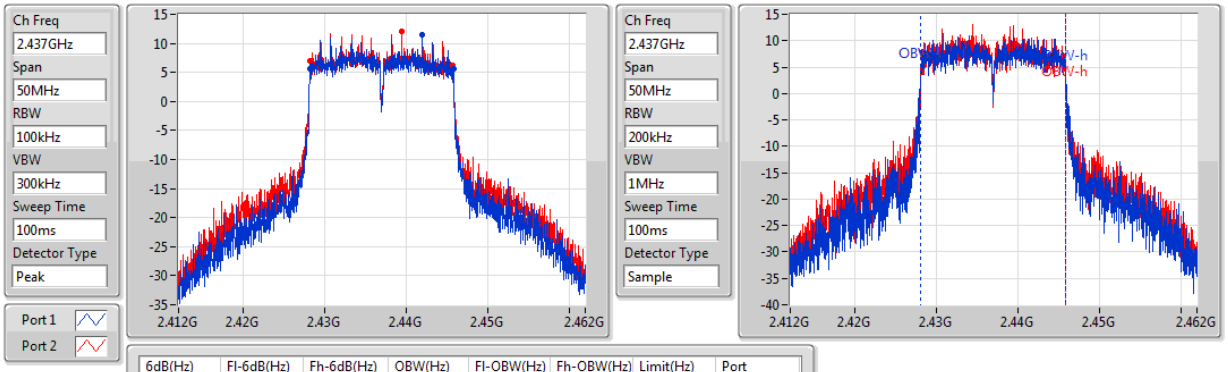
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	2.4032G	2.420775G	17.666M	2.403129G	2.420796G	500k	1
17.55M	2.4032G	2.42075G	17.666M	2.403129G	2.420796G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

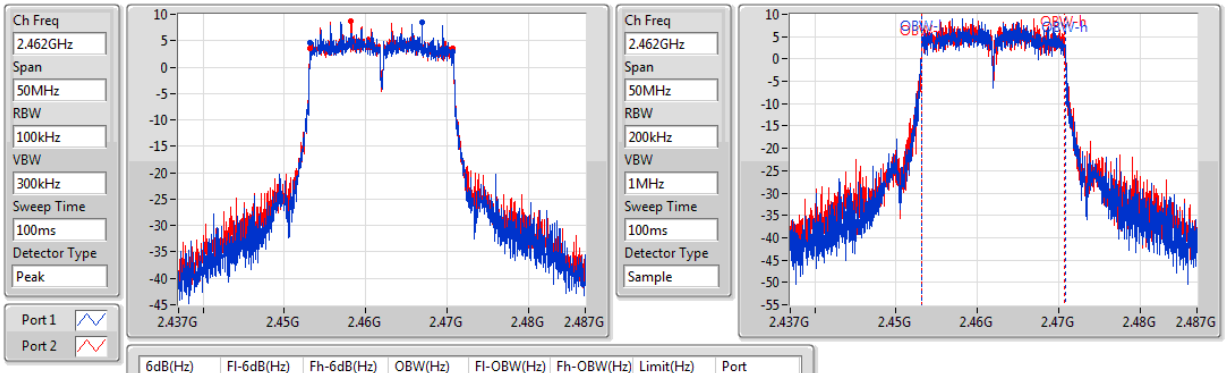
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.6M	2.428175G	2.445775G	17.791M	2.428054G	2.445846G	500k	1
17.55M	2.4282G	2.44575G	17.841M	2.428054G	2.445896G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

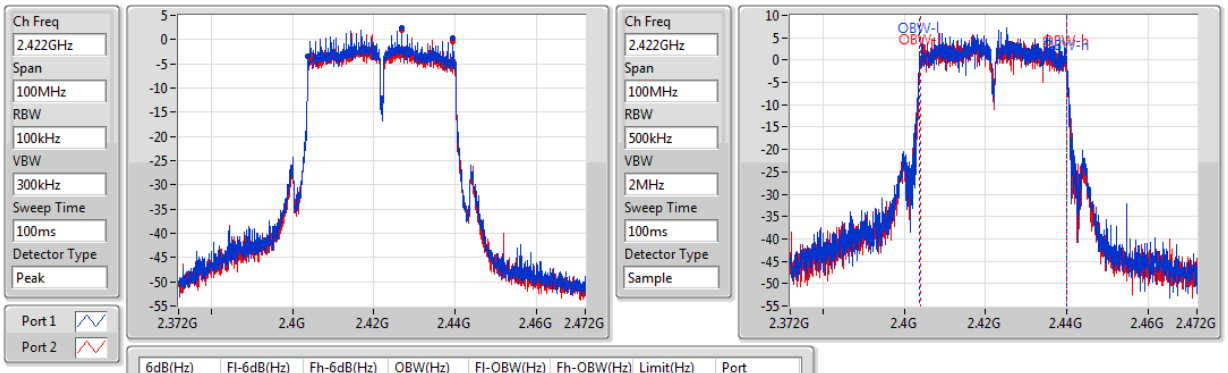
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	2.4532G	2.47075G	17.666M	2.453129G	2.470796G	500k	1
17.55M	2.4532G	2.47075G	17.641M	2.453129G	2.470771G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX EBW

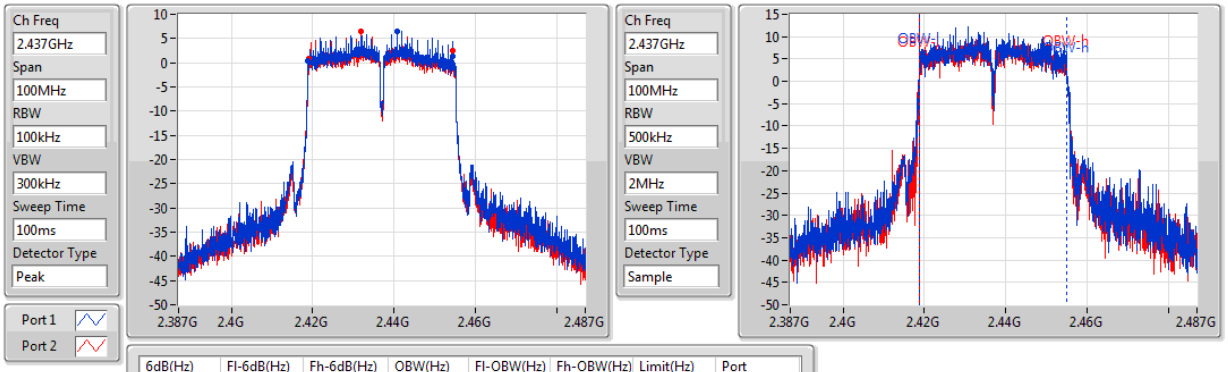
2422MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.65M	2.40385G	2.4395G	36.082M	2.403859G	2.439941G	500k	1
35.3M	2.4042G	2.4395G	36.082M	2.403909G	2.439991G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX EBW

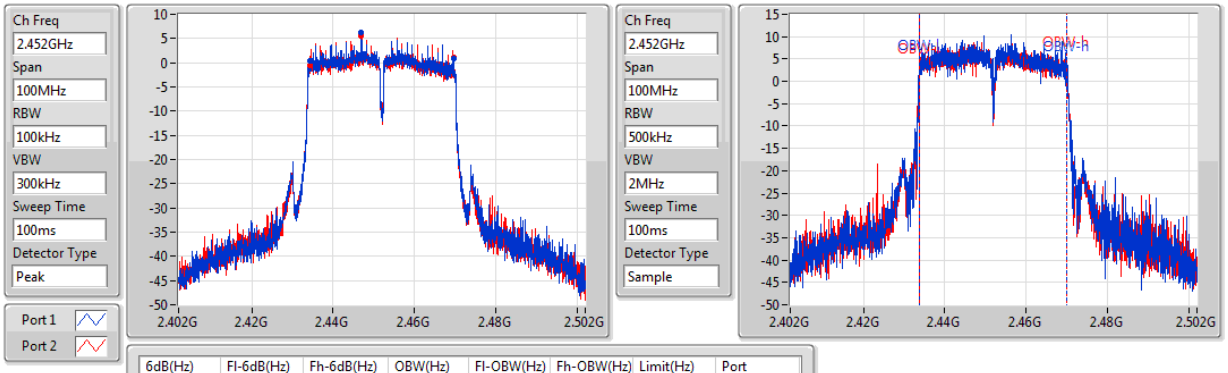
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.65M	2.41885G	2.4545G	36.082M	2.418859G	2.454941G	500k	1
35.45M	2.41905G	2.4545G	36.082M	2.418859G	2.454941G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX EBW

2452MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.3M	2.43425G	2.46955G	36.132M	2.433859G	2.469991G	500k	1
35.3M	2.43425G	2.46955G	36.132M	2.433809G	2.469941G	500k	2

For 1TX
Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	23.31	0.21429
802.11g_Nss1,(6Mbps)_1TX	23.10	0.20417

Result

Mode	Result	DG (dBi)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.40	23.05	23.05	30.00
2437MHz	Pass	3.30	23.03	23.03	30.00
2462MHz	Pass	3.50	23.31	23.31	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.40	19.31	19.31	30.00
2437MHz	Pass	3.30	23.10	23.10	30.00
2462MHz	Pass	3.50	19.46	19.46	30.00

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

For 2TX
Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11n HT20_Nss1,(MCS0)_2TX	25.25	0.33497
802.11n HT40_Nss1,(MCS0)_2TX	22.68	0.18535

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.40	19.07	19.58	22.34	30.00
2437MHz	Pass	3.30	22.08	22.40	25.25	30.00
2462MHz	Pass	3.50	19.39	19.81	22.62	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.40	15.98	15.33	18.68	30.00
2437MHz	Pass	3.30	19.83	19.51	22.68	30.00
2452MHz	Pass	3.40	18.78	18.37	21.59	30.00

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

For 1TX
Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	0.32
802.11g_Nss1,(6Mbps)_1TX	-1.95

RBW=3kHz.

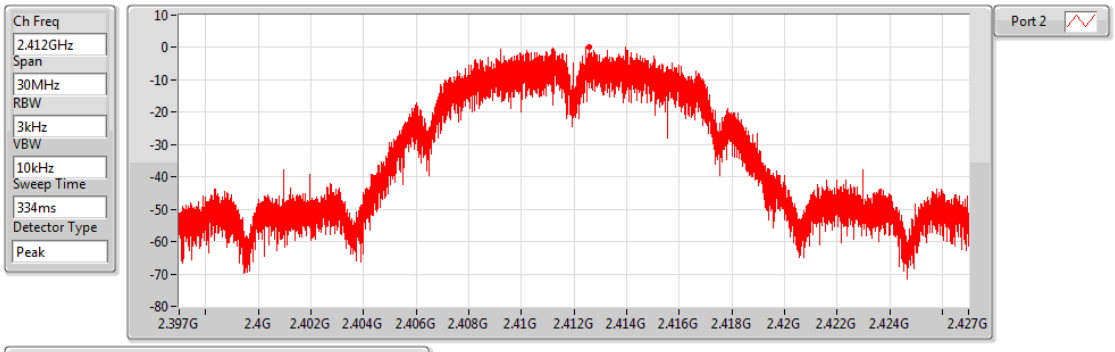
Result

Mode	Result	DG (dBi)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.40	0.25	0.25	8.00
2437MHz	Pass	3.30	0.32	0.32	8.00
2462MHz	Pass	3.50	-0.01	-0.01	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.40	-5.80	-5.80	8.00
2437MHz	Pass	3.30	-1.95	-1.95	8.00
2462MHz	Pass	3.50	-4.27	-4.27	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)_1TX **PSD**

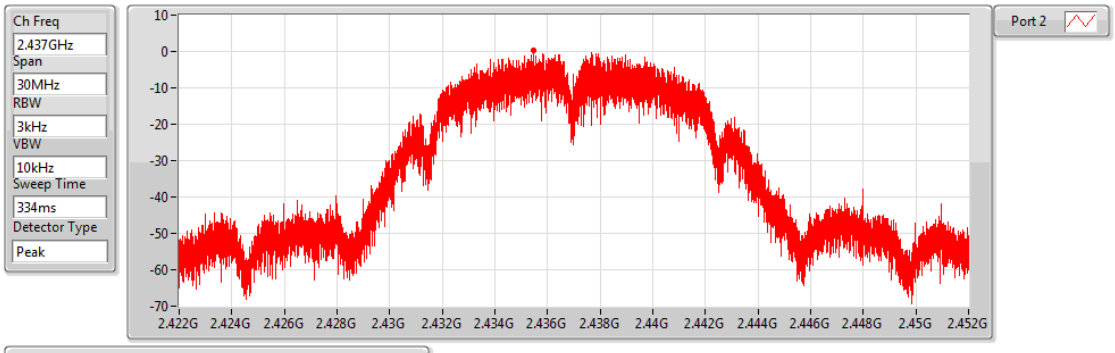
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.25	0.25		0.25

802.11b_Nss1,(1Mbps)_1TX **PSD**

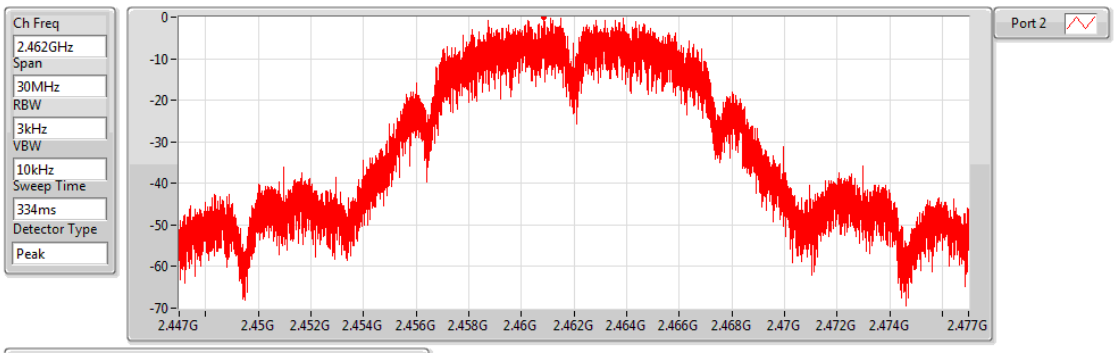
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.32	0.32		0.32

802.11b_Nss1,(1Mbps)_1TX **PSD**

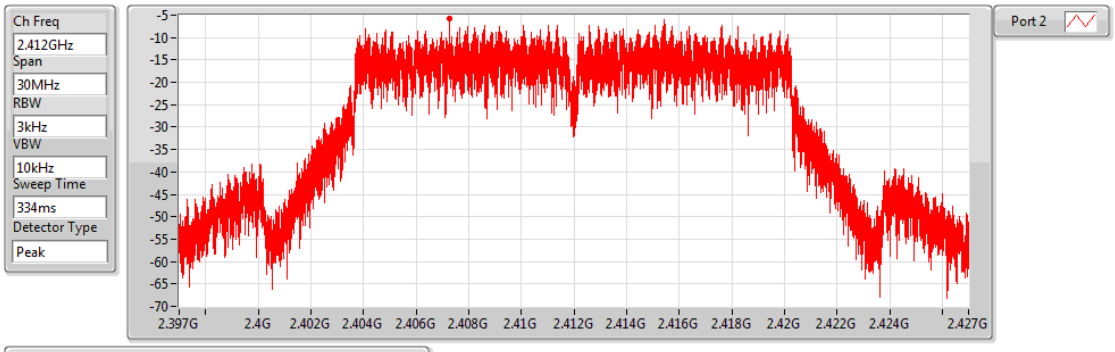
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.01	-0.01		-0.01

802.11g_Nss1,(6Mbps)_1TX **PSD**

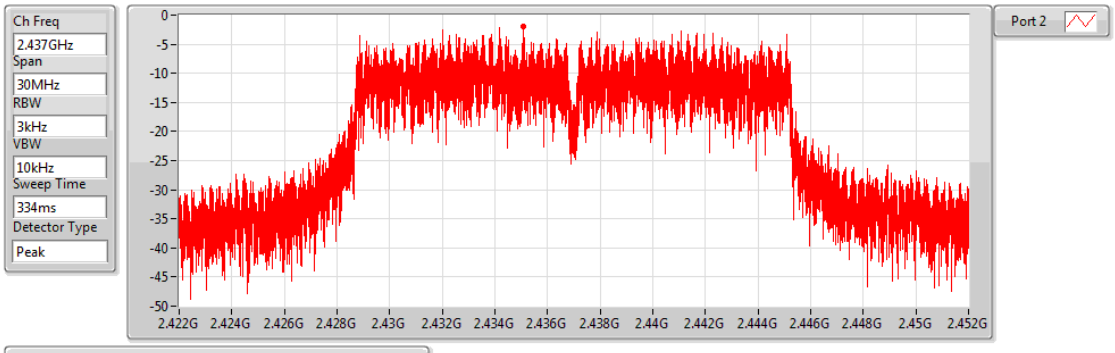
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.80	-5.80		-5.80

802.11g_Nss1,(6Mbps)_1TX **PSD**

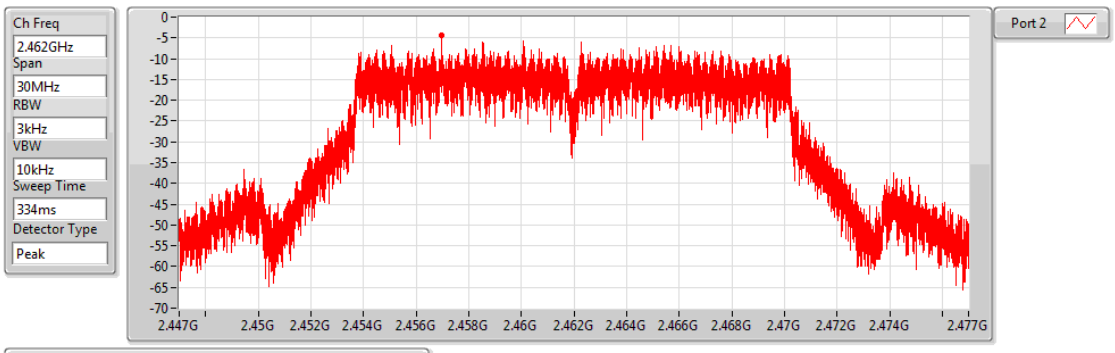
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.95	-1.95		-1.95

802.11g_Nss1,(6Mbps)_1TX **PSD**

2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.27	-4.27		-4.27

For 2TX

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11n HT20_Nss1,(MCS0)_2TX	-1.29
802.11n HT40_Nss1,(MCS0)_2TX	-6.08

RBW=3kHz.

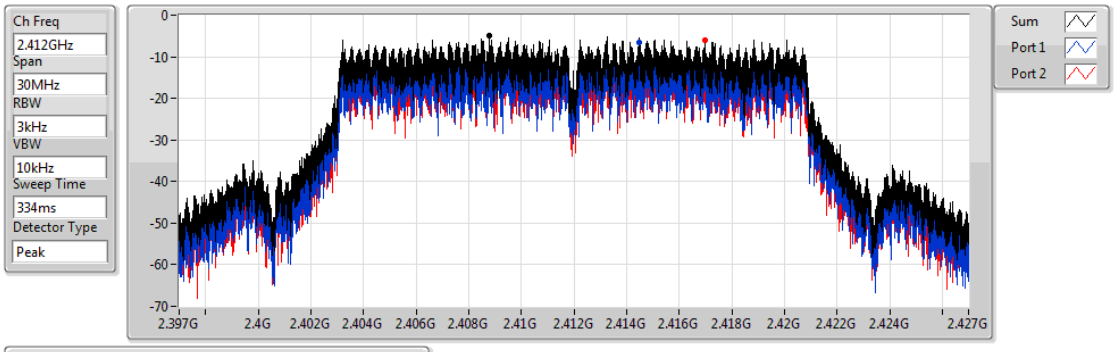
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.20	-6.66	-6.01	-4.82	8.00
2437MHz	Pass	5.20	-3.86	-2.57	-1.29	8.00
2462MHz	Pass	5.20	-4.78	-6.13	-4.08	8.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.20	-11.86	-13.17	-10.32	8.00
2437MHz	Pass	5.20	-8.31	-8.20	-6.08	8.00
2452MHz	Pass	5.20	-9.14	-8.99	-7.59	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;

802.11n HT20_Nss1,(MCS0)_2TX PSD

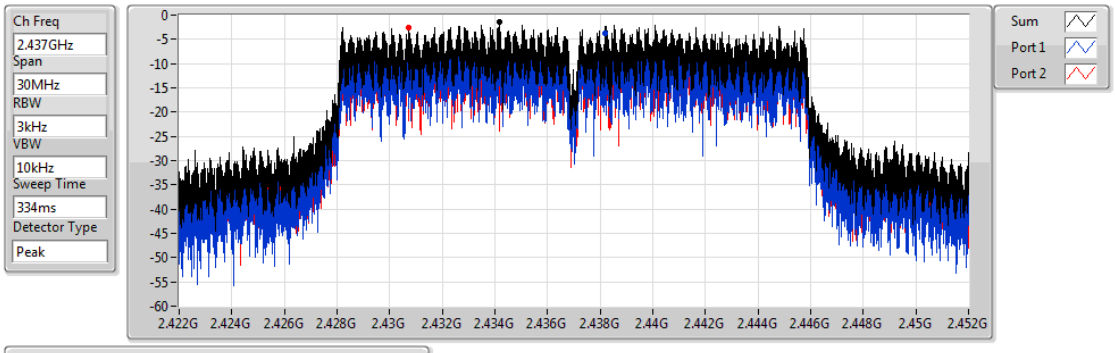
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.82	-4.82	-6.66	-6.01

802.11n HT20_Nss1,(MCS0)_2TX PSD

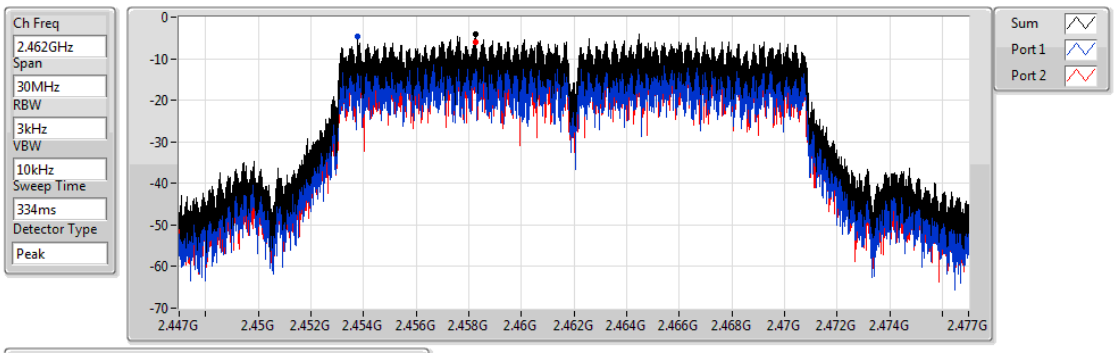
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.29	-1.29	-3.86	-2.57

802.11n HT20_Nss1,(MCS0)_2TX PSD

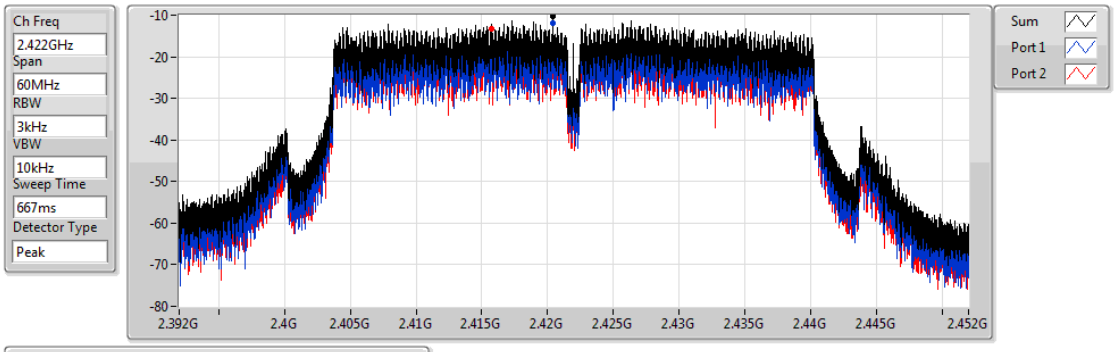
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.08	-4.08	-4.78	-6.13

802.11n HT40_Nss1,(MCS0)_2TX PSD

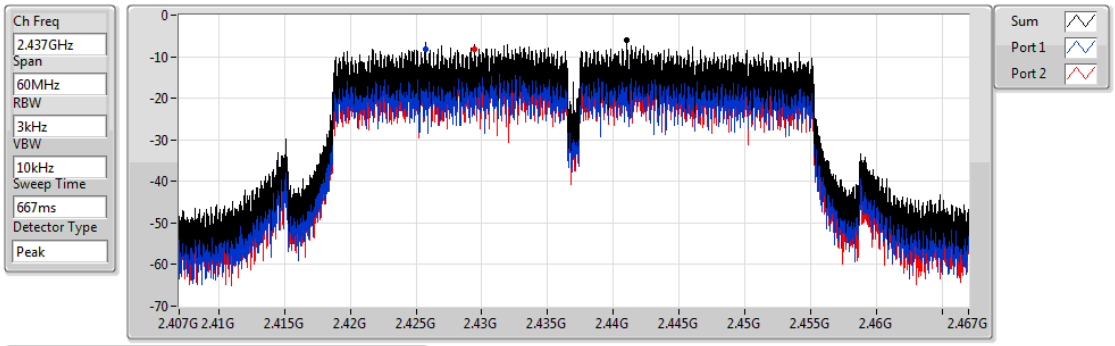
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.32	-10.32	-11.86	-13.17

802.11n HT40_Nss1,(MCS0)_2TX PSD

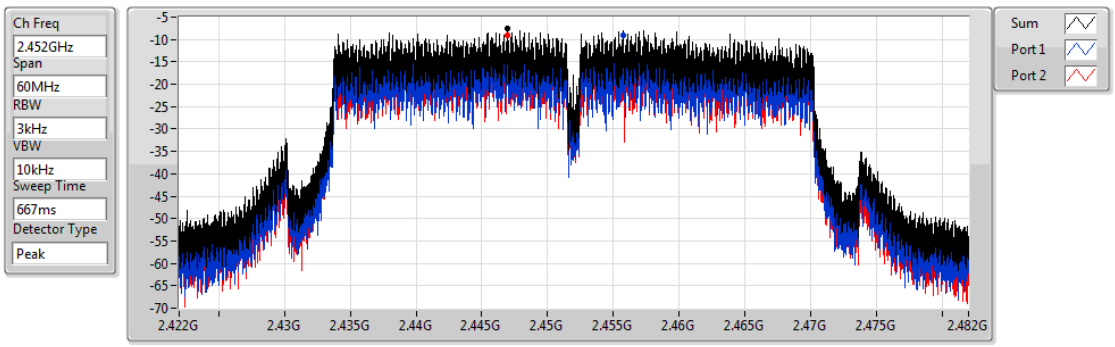
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.08	-6.08	-8.31	-8.20

802.11n HT40_Nss1,(MCS0)_2TX PSD

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.59	-7.59	-9.14	-8.99

For 1TX
Summary

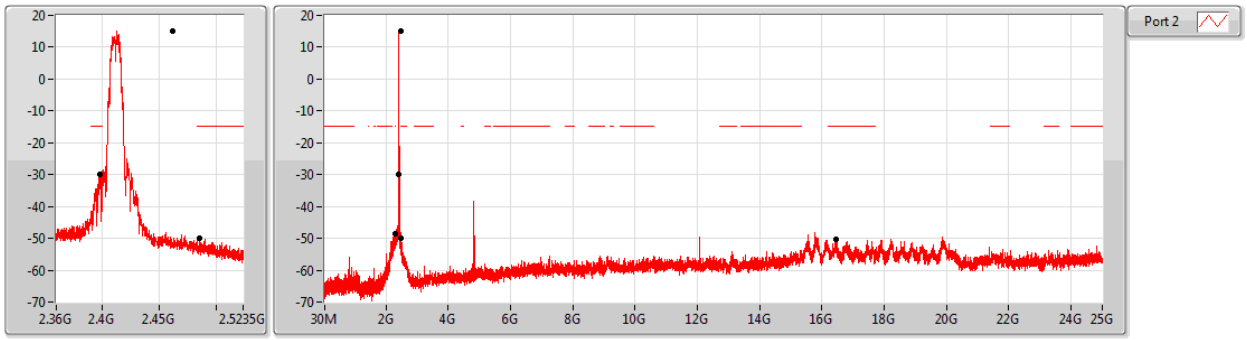
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.461456G	15.24	-14.76	2.302915G	-48.43	2.39848G	-29.89	2.4855G	-50.01	16.447692G	-50.25	2
802.11g_Nss1,(6Mbps)_1TX	Pass	2.440748G	12.43	-17.57	2.309905G	-52.21	2.39952G	-22.71	2.4867G	-53.07	17.61647G	-51.03	2

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.461456G	15.24	-14.76	2.302915G	-48.43	2.39848G	-29.89	2.4855G	-50.01	16.447692G	-50.25	2
2437MHz	Pass	2.461456G	15.24	-14.76	2.307575G	-49.09	2.39896G	-46.19	2.48606G	-48.29	16.793268G	-50.82	2
2462MHz	Pass	2.461456G	15.24	-14.76	2.160785G	-48.47	2.39424G	-46.39	2.48646G	-40.08	16.784839G	-49.87	2
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.440748G	12.43	-17.57	2.309905G	-52.21	2.39952G	-22.71	2.4867G	-53.07	17.61647G	-51.03	2
2437MHz	Pass	2.440748G	12.43	-17.57	2.160785G	-48.11	2.39976G	-35.60	2.48574G	-40.91	16.770791G	-50.75	2
2462MHz	Pass	2.440748G	12.43	-17.57	2.160785G	-51.03	2.3964G	-48.45	2.48414G	-34.62	16.776411G	-51.24	2

802.11b_Nss1,(1Mbps)_1TX **CSE NdB**

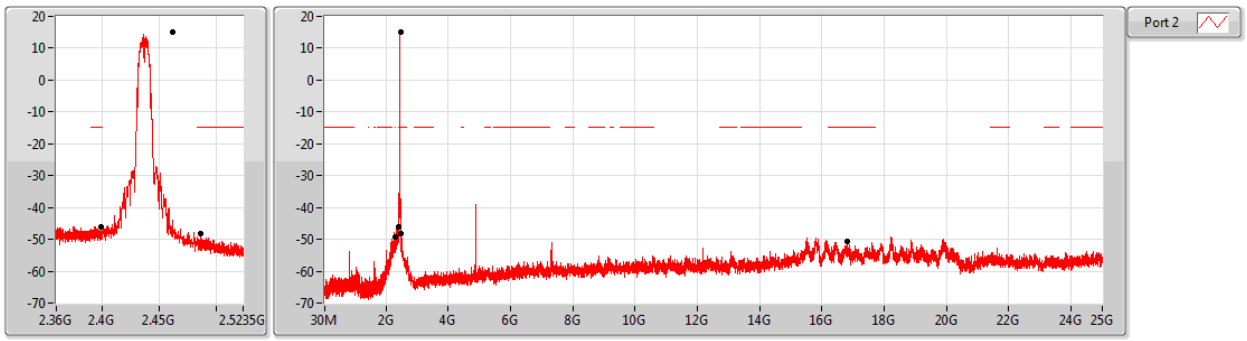
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.461456G	15.24	-14.76	2.302915G	-48.43	2.39848G	-29.89	2.4855G	-50.01	16.447692G	-50.25	2

802.11b_Nss1,(1Mbps)_1TX **CSE NdB**

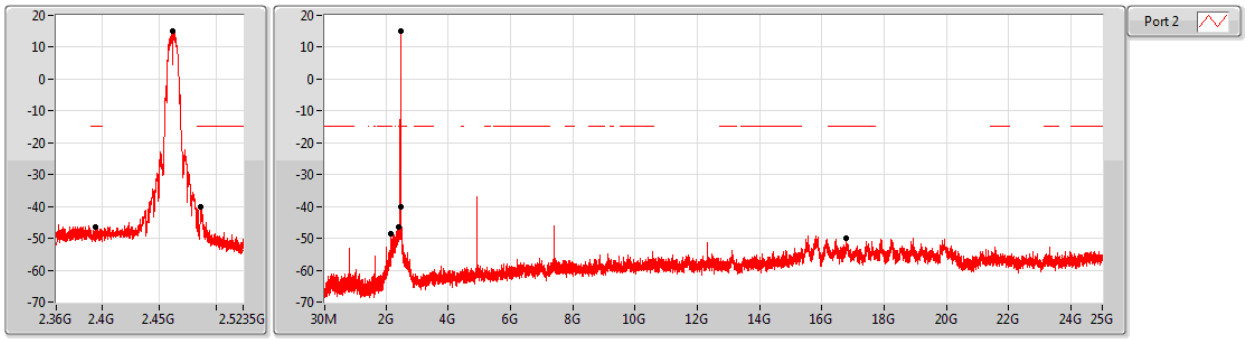
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.461456G	15.24	-14.76	2.307575G	-49.09	2.39896G	-46.19	2.48606G	-48.29	16.793268G	-50.82	2

802.11b_Nss1,(1Mbps)_1TX **CSE NdB**

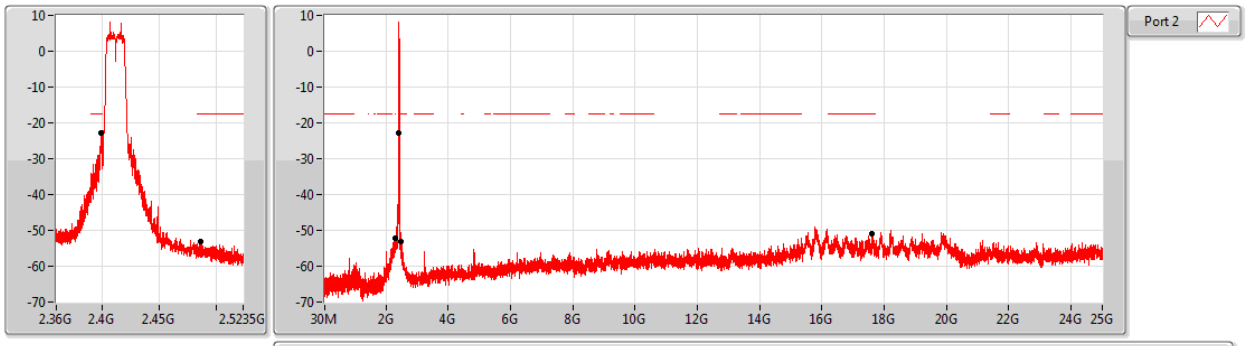
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.461456G	15.24	-14.76	2.160785G	-48.47	2.39424G	-46.39	2.48646G	-40.08	16.784839G	-49.87	2

802.11g_Nss1,(6Mbps)_1TX **CSE NdB**

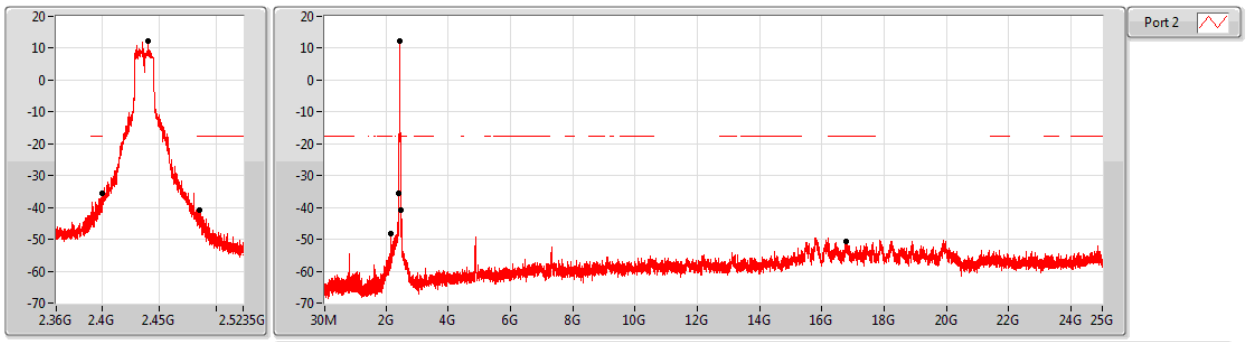
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.440748G	12.43	-17.57	2.309905G	-52.21	2.39952G	-22.71	2.4867G	-53.07	17.61647G	-51.03	2

802.11g_Nss1,(6Mbps)_1TX **CSE NdB**

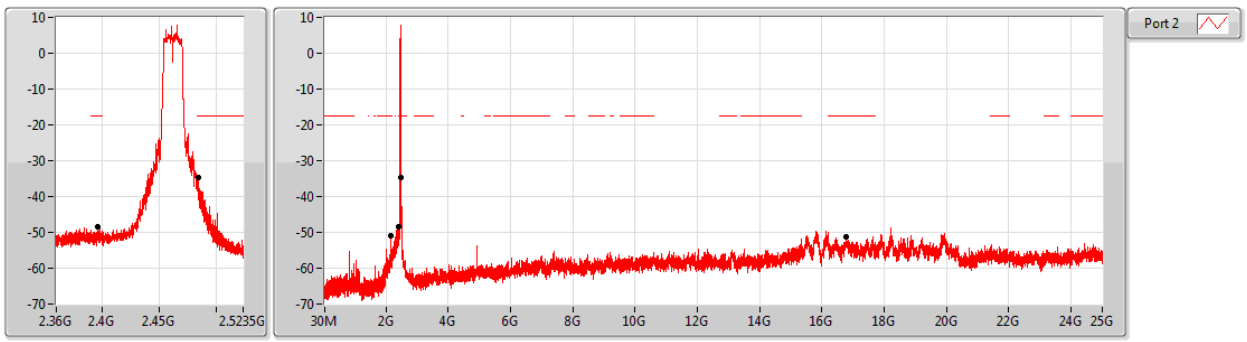
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.440748G	12.43	-17.57	2.160785G	-48.11	2.39976G	-35.60	2.48574G	-40.91	16.770791G	-50.75	2

802.11g_Nss1,(6Mbps)_1TX **CSE NdB**

2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.440748G	12.43	-17.57	2.160785G	-51.03	2.3964G	-48.45	2.48414G	-34.62	16.776411G	-51.24	2

For 2TX

Summary

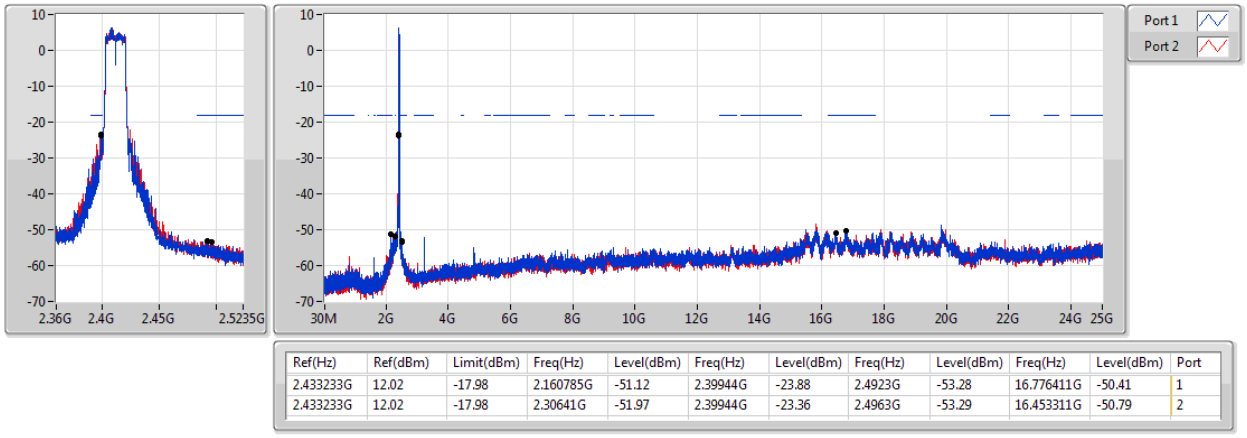
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.433233G	12.02	-17.98	2.30641G	-51.97	2.39944G	-23.36	2.4963G	-53.29	16.453311G	-50.79	2
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.434402G	6.33	-23.67	2.080695G	-50.45	2.39984G	-26.31	2.50334G	-54.72	16.763G	-50.16	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)	Port
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.433233G	12.02	-17.98	2.160785G	-51.12	2.39944G	-23.88	2.4923G	-53.28	16.776411G	-50.41	1
2412MHz	Pass	2.433233G	12.02	-17.98	2.30641G	-51.97	2.39944G	-23.36	2.4963G	-53.29	16.453311G	-50.79	2
2437MHz	Pass	2.433233G	12.02	-17.98	2.302915G	-50.29	2.39864G	-39.80	2.48486G	-42.49	16.450501G	-50.73	1
2437MHz	Pass	2.433233G	12.02	-17.98	2.160785G	-49.51	2.39736G	-36.75	2.48382G	-41.27	17.608041G	-50.20	2
2462MHz	Pass	2.433233G	12.02	-17.98	2.160785G	-51.72	2.39176G	-49.57	2.48422G	-35.41	16.416787G	-50.98	1
2462MHz	Pass	2.433233G	12.02	-17.98	2.160785G	-50.90	2.39256G	-48.97	2.48446G	-31.84	16.430834G	-51.04	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.434402G	6.33	-23.67	2.080695G	-50.45	2.39984G	-26.31	2.50334G	-54.72	16.763G	-50.16	1
2422MHz	Pass	2.434402G	6.33	-23.67	2.302825G	-55.54	2.39952G	-27.30	2.48958G	-55.01	17.430486G	-49.31	2
2437MHz	Pass	2.434402G	6.33	-23.67	2.080695G	-46.63	2.39872G	-33.40	2.48446G	-38.17	16.432062G	-50.47	1
2437MHz	Pass	2.434402G	6.33	-23.67	2.080695G	-51.40	2.39952G	-33.04	2.48478G	-39.20	17.458531G	-50.53	2
2452MHz	Pass	2.434402G	6.33	-23.67	2.080695G	-48.18	2.39392G	-42.73	2.48542G	-33.84	16.432062G	-49.92	1
2452MHz	Pass	2.434402G	6.33	-23.67	2.080695G	-51.05	2.39824G	-43.95	2.48942G	-32.07	16.782632G	-50.86	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

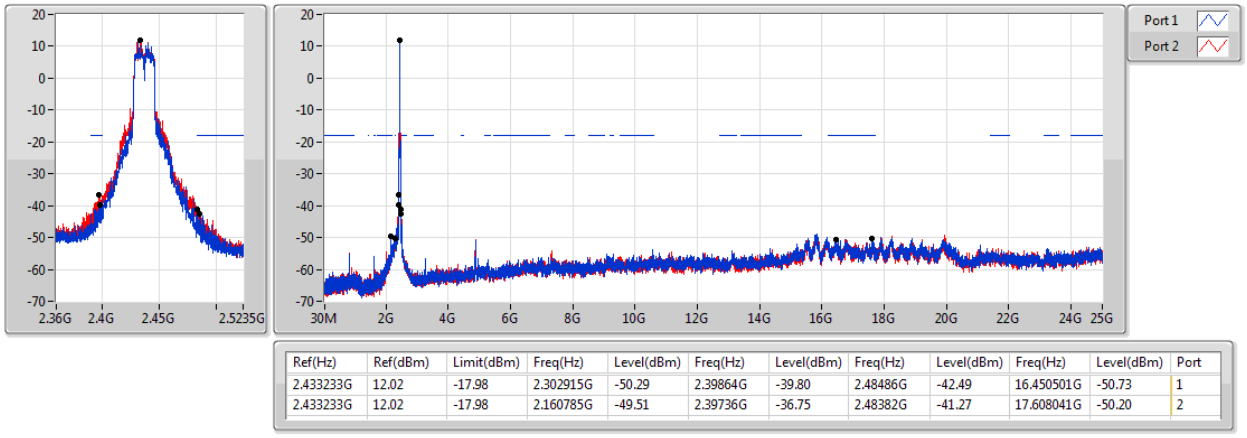
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.433233G	12.02	-17.98	2.160785G	-51.12	2.39944G	-23.88	2.4923G	-53.28	16.776411G	-50.41	1
2.433233G	12.02	-17.98	2.30641G	-51.97	2.39944G	-23.36	2.4963G	-53.29	16.453311G	-50.79	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

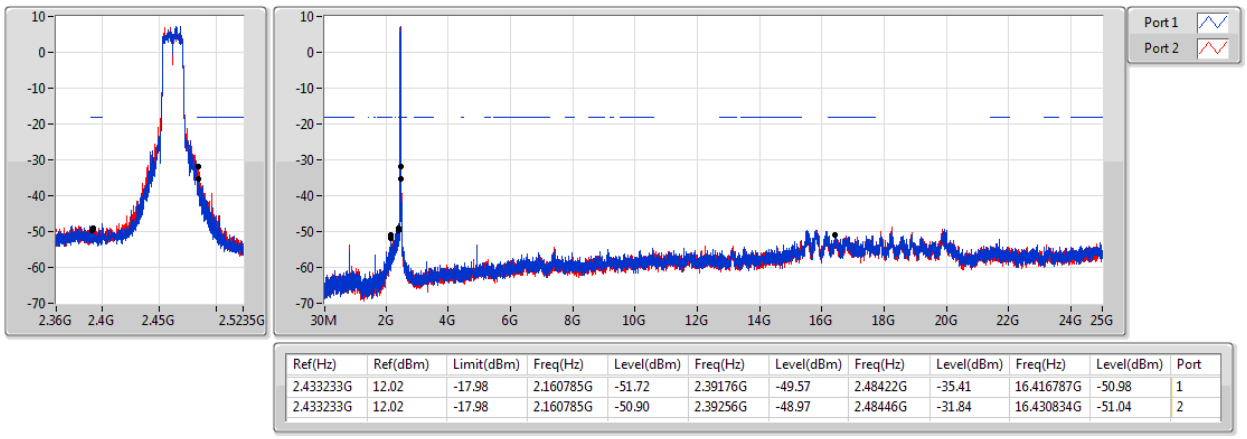
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.433233G	12.02	-17.98	2.302915G	-50.29	2.39864G	-39.80	2.48486G	-42.49	16.450501G	-50.73	1
2.433233G	12.02	-17.98	2.160785G	-49.51	2.39736G	-36.75	2.48382G	-41.27	17.608041G	-50.20	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

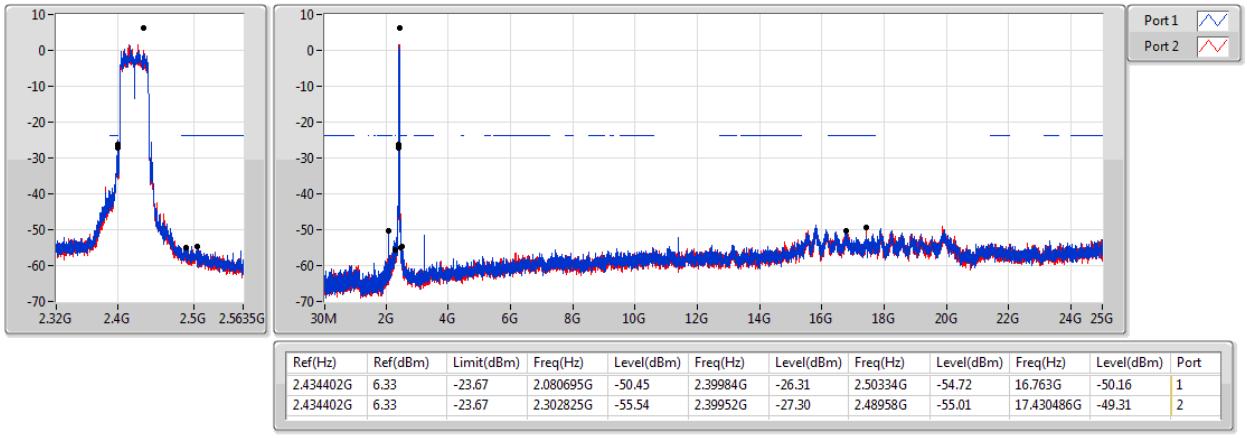
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.433233G	12.02	-17.98	2.160785G	-51.72	2.39176G	-49.57	2.48422G	-35.41	16.416787G	-50.98	1
2.433233G	12.02	-17.98	2.160785G	-50.90	2.39256G	-48.97	2.48446G	-31.84	16.430834G	-51.04	2

802.11n HT40_Nss1,(MCS0)_2TX **CSE NdB**

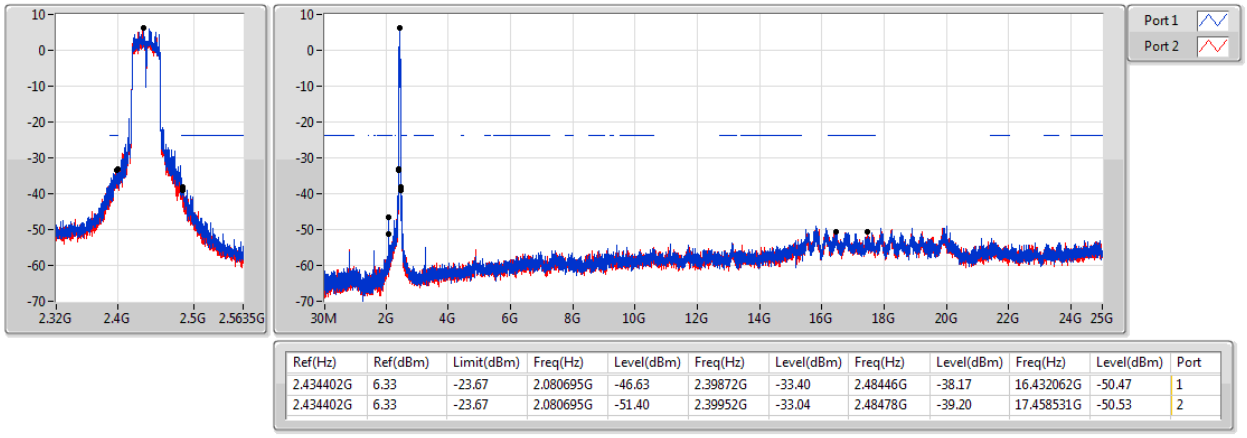
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.434402G	6.33	-23.67	2.080695G	-50.45	2.39984G	-26.31	2.50334G	-54.72	16.763G	-50.16	1
2.434402G	6.33	-23.67	2.302825G	-55.54	2.39952G	-27.30	2.48958G	-55.01	17.430486G	-49.31	2

802.11n HT40_Nss1,(MCS0)_2TX **CSE NdB**

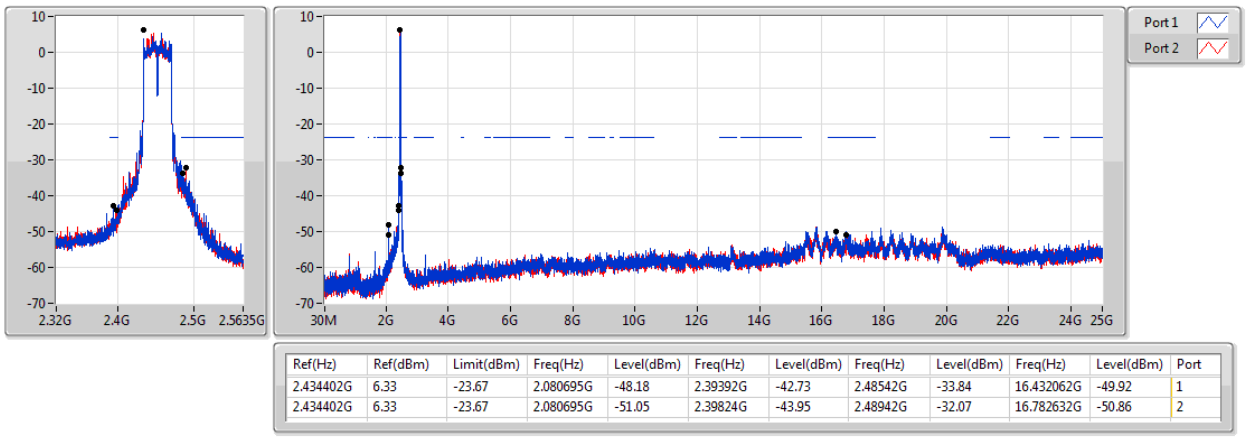
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.434402G	6.33	-23.67	2.080695G	-46.63	2.39872G	-33.40	2.48446G	-38.17	16.432062G	-50.47	1
2.434402G	6.33	-23.67	2.080695G	-51.40	2.39952G	-33.04	2.48478G	-39.20	17.458531G	-50.53	2

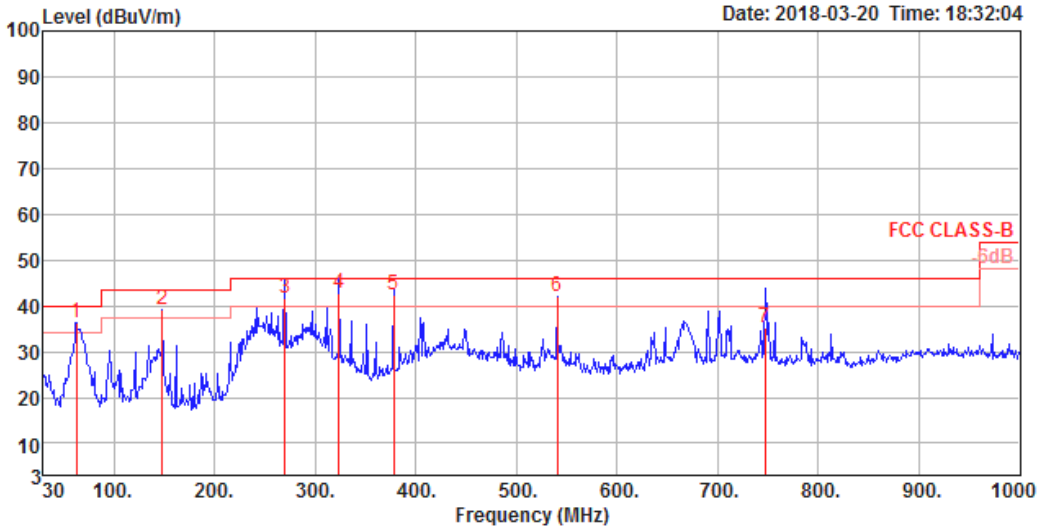
802.11n HT40_Nss1,(MCS0)_2TX **CSE NdB**

2452MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.434402G	6.33	-23.67	2.080695G	-48.18	2.39392G	-42.73	2.48542G	-33.84	16.432062G	-49.92	1
2.434402G	6.33	-23.67	2.080695G	-51.05	2.39824G	-43.95	2.48942G	-32.07	16.782632G	-50.86	2

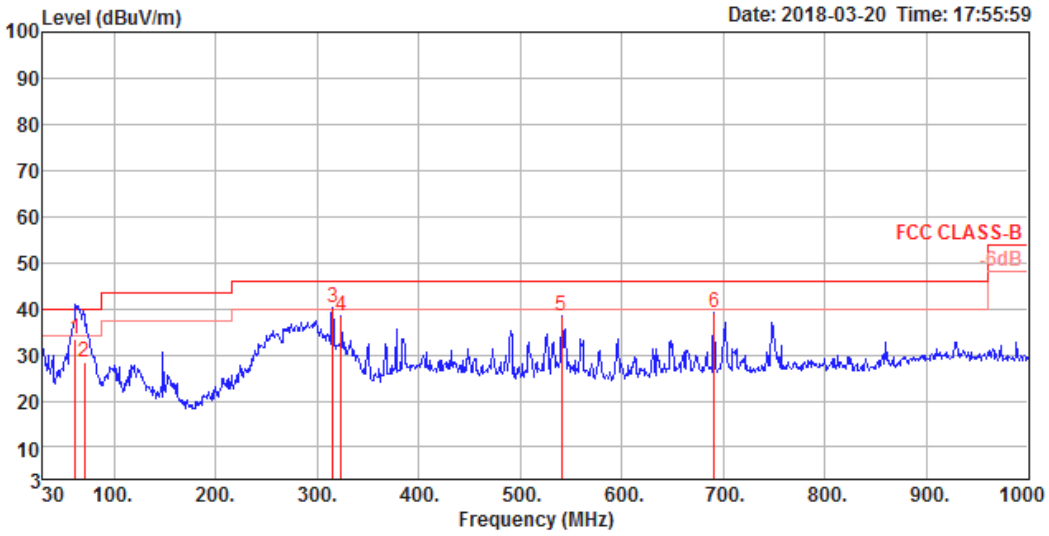
RSE below 1GHz Result			
Operating Mode	1	**Polarization**	Horizontal
Operating Function	CTX – 2.4GHz (802.11g CH6, power level: 91)		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	62.98	36.41	40.00	-3.59	54.43	1.19	12.67	31.88	300	15	Peak	HORIZONTAL
2	148.34	39.11	43.50	-4.39	52.92	1.09	17.02	31.92	200	159	Peak	HORIZONTAL
3	269.59	41.52	46.00	-4.48	51.54	2.48	19.34	31.84	100	33	QP	HORIZONTAL
4	323.91	42.70	46.00	-3.30	52.10	2.00	20.40	31.80	100	207	QP	HORIZONTAL
5	378.23	42.40	46.00	-3.60	50.01	2.30	21.85	31.76	100	225	QP	HORIZONTAL
6	540.22	41.89	46.00	-4.11	46.37	2.78	24.35	31.61	200	200	Peak	HORIZONTAL
7	746.83	35.19	46.00	-10.81	36.84	3.75	26.07	31.47	100	205	QP	HORIZONTAL

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

RSE below 1GHz Result			
Operating Mode	1	**Polarization**	Vertical
Operating Function	CTX – 2.4GHz (802.11g CH6, power level: 91)		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	62.01	33.40	40.00	-6.60	51.38	1.21	12.68	31.87	100	313	QP	VERTICAL
2	70.74	28.57	40.00	-11.43	46.89	0.91	12.66	31.89	100	116	QP	VERTICAL
3	315.18	40.13	46.00	-5.87	49.56	2.23	20.15	31.81	200	164	Peak	VERTICAL
4	323.91	38.45	46.00	-7.55	47.85	2.00	20.40	31.80	125	261	Peak	VERTICAL
5	540.22	38.55	46.00	-7.45	43.03	2.78	24.35	31.61	100	206	Peak	VERTICAL
6	690.57	39.11	46.00	-6.89	41.80	3.34	25.48	31.51	100	298	Peak	VERTICAL

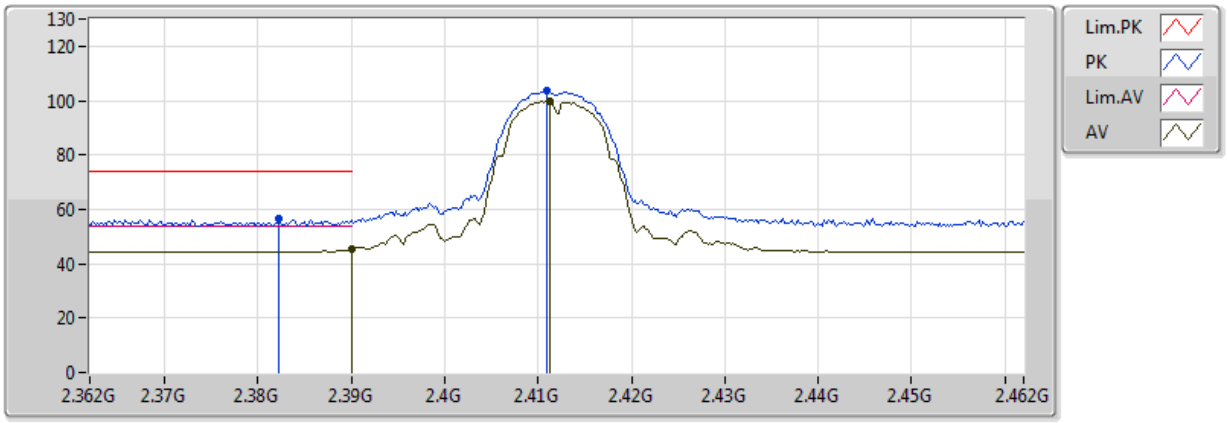
Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.483502G	53.99	54.00	-0.01	32.53	3	Horizontal	288	1.50	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

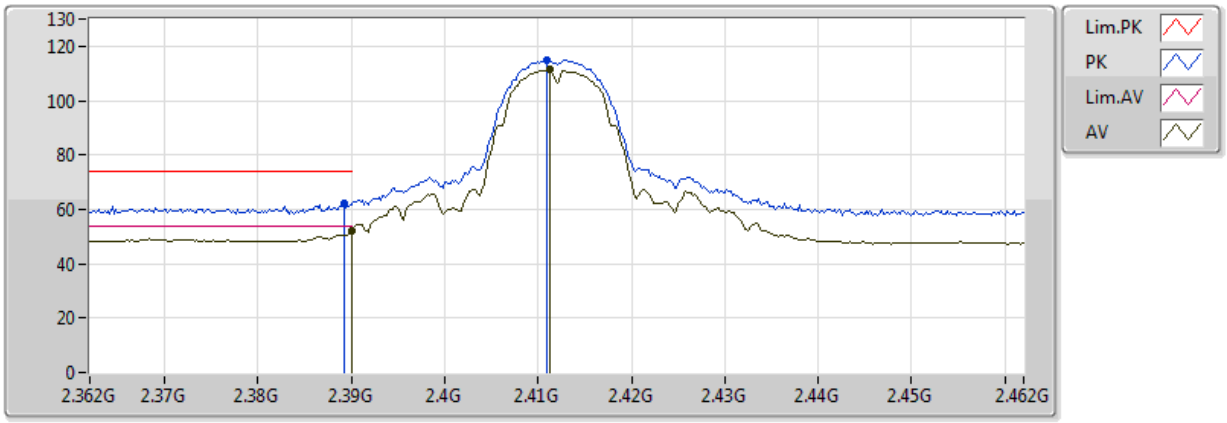


20171025
EUT Z_1TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	45.15	54.00	-8.85	32.28	3	Vertical	349	1.49
AV	2.4112G	99.88	Inf	-Inf	32.34	3	Vertical	349	1.49
PK	2.3822G	56.32	74.00	-17.68	32.27	3	Vertical	349	1.49
PK	2.411G	103.65	Inf	-Inf	32.34	3	Vertical	349	1.49

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX



20171025
EUT Z_1TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	52.14	54.00	-1.86	32.28	3	Horizontal	0	2.03
AV	2.4112G	111.24	Inf	-Inf	32.34	3	Horizontal	0	2.03
PK	2.3892G	61.96	74.00	-12.04	32.28	3	Horizontal	0	2.03
PK	2.411G	115.05	Inf	-Inf	32.34	3	Horizontal	0	2.03

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

20171025
EUT Z_1TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.824G	42.73	54.00	-11.27	5.01	3	Vertical	215	1.32
PK	4.82392G	48.57	74.00	-25.43	5.01	3	Vertical	215	1.32

802.11b_Nss1,(1Mbps)_1TX

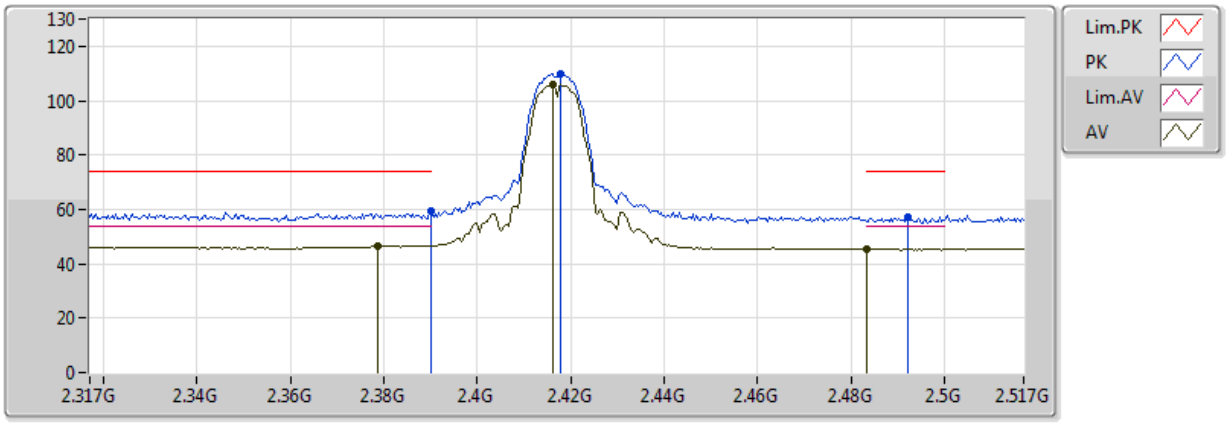
2412MHz_TX

20171025
EUT Z_1TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.82392G	38.50	54.00	-15.50	5.01	3	Horizontal	78	2.37
PK	4.82412G	47.10	74.00	-26.90	5.01	3	Horizontal	78	2.37

802.11b_Nss1,(1Mbps)_1TX

2417MHz_TX

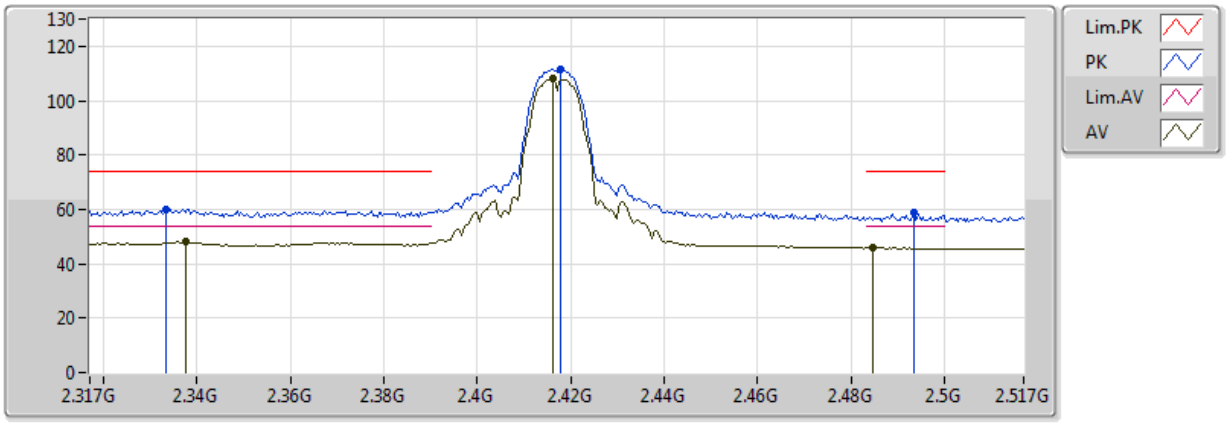


20171102
EUT Z_1TX
Setting 88
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3786G	46.63	54.00	-7.37	32.26	3	Vertical	115	2.81
AV	2.4162G	105.98	Inf	-Inf	32.35	3	Vertical	115	2.81
AV	2.483502G	45.49	54.00	-8.51	32.53	3	Vertical	115	2.81
PK	2.389998G	59.17	74.00	-14.83	32.28	3	Vertical	115	2.81
PK	2.4178G	109.81	Inf	-Inf	32.36	3	Vertical	115	2.81
PK	2.4922G	57.37	74.00	-16.63	32.55	3	Vertical	115	2.81

802.11b_Nss1,(1Mbps)_1TX

2417MHz_TX

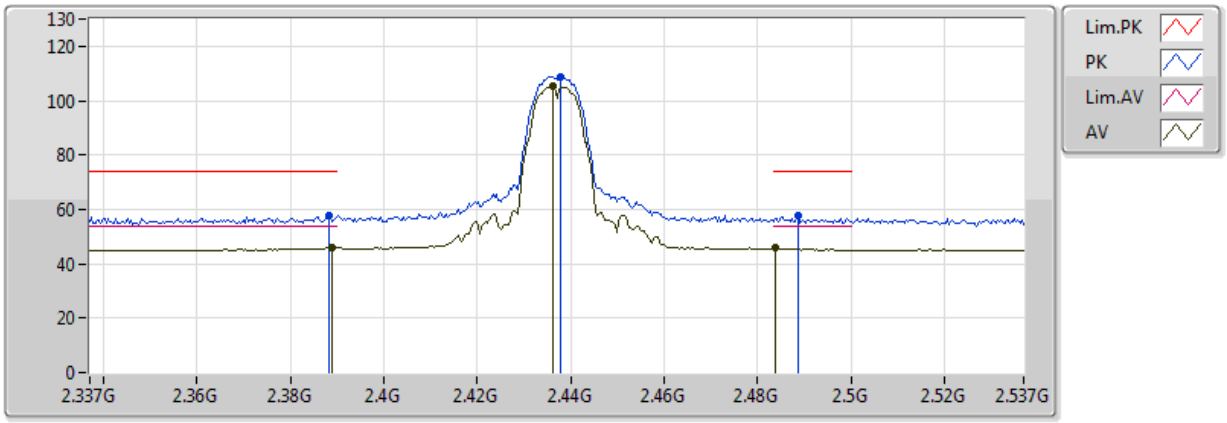


20171102
EUT Z_1TX
Setting 88
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3374G	47.97	54.00	-6.03	32.15	3	Horizontal	19	1.50
AV	2.4162G	107.90	Inf	-Inf	32.35	3	Horizontal	19	1.50
AV	2.4846G	45.80	54.00	-8.20	32.53	3	Horizontal	19	1.50
PK	2.3334G	60.22	74.00	-13.78	32.14	3	Horizontal	19	1.50
PK	2.4178G	111.58	Inf	-Inf	32.36	3	Horizontal	19	1.50
PK	2.4934G	58.70	74.00	-15.30	32.55	3	Horizontal	19	1.50

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

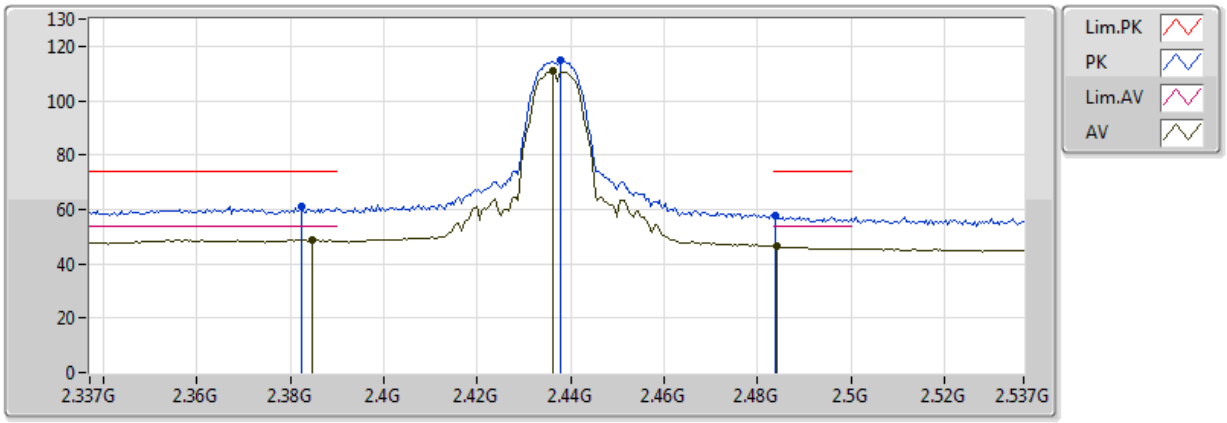


20171025
EUT Z_1TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389G	45.77	54.00	-8.23	32.28	3	Vertical	111	2.82
AV	2.4362G	105.18	Inf	-Inf	32.40	3	Vertical	111	2.82
AV	2.4838G	45.74	54.00	-8.26	32.53	3	Vertical	111	2.82
PK	2.3882G	57.89	74.00	-16.11	32.28	3	Vertical	111	2.82
PK	2.4378G	108.94	Inf	-Inf	32.41	3	Vertical	111	2.82
PK	2.4886G	57.55	74.00	-16.45	32.54	3	Vertical	111	2.82

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

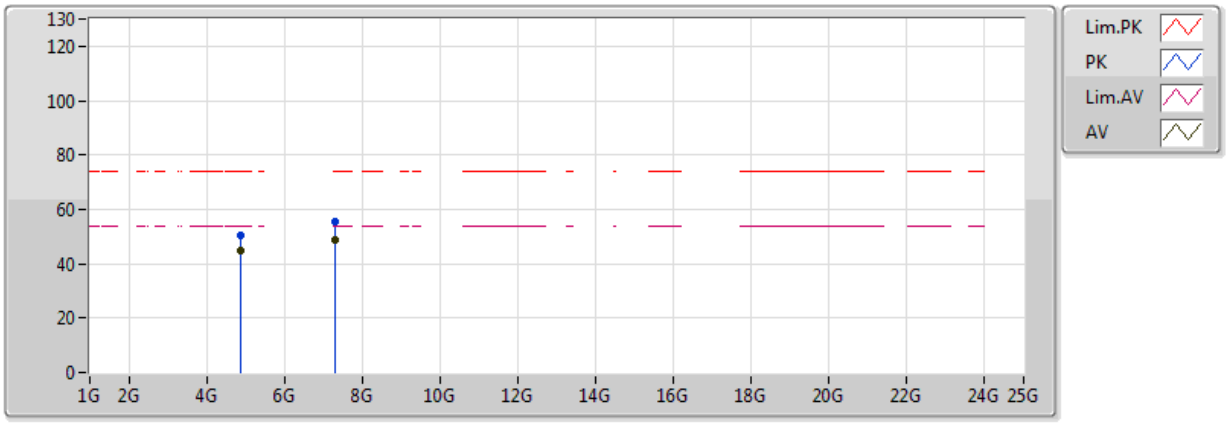


20171025
EUT Z_1TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3846G	48.76	54.00	-5.24	32.27	3	Horizontal	358	1.82
AV	2.4362G	110.81	Inf	-Inf	32.40	3	Horizontal	358	1.82
AV	2.4842G	46.27	54.00	-7.73	32.53	3	Horizontal	358	1.82
PK	2.3822G	61.33	74.00	-12.67	32.27	3	Horizontal	358	1.82
PK	2.4378G	114.74	Inf	-Inf	32.41	3	Horizontal	358	1.82
PK	2.4838G	57.74	74.00	-16.26	32.53	3	Horizontal	358	1.82

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

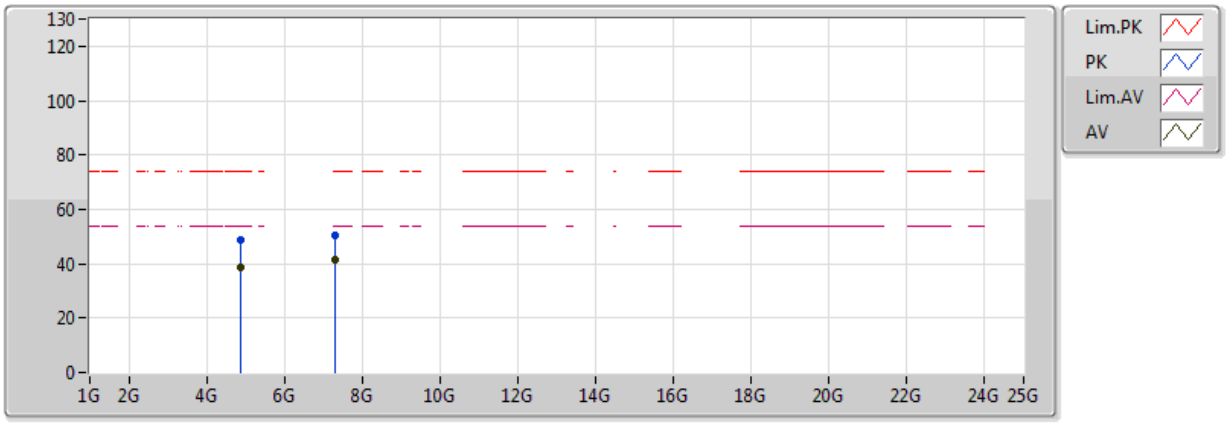


20171025
EUT Z_1TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.87396G	44.57	54.00	-9.43	5.23	3	Vertical	217	1.27
AV	7.31024G	48.78	54.00	-5.22	9.09	3	Vertical	50	1.06
PK	4.87396G	50.38	74.00	-23.62	5.23	3	Vertical	217	1.27
PK	7.3118G	55.25	74.00	-18.75	9.09	3	Vertical	50	1.06

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

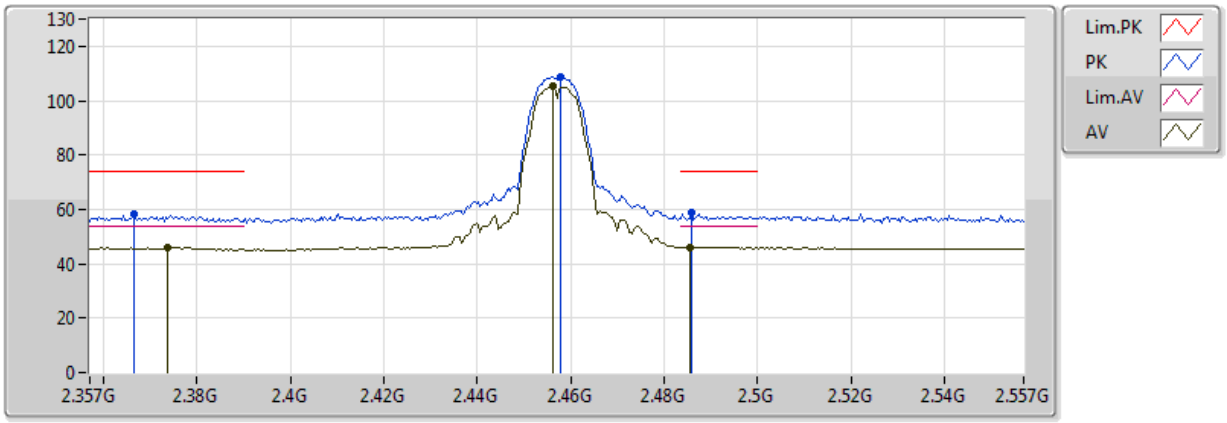


20171025
EUT Z_1TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.874G	38.69	54.00	-15.31	5.23	3	Horizontal	69	1.39
AV	7.31168G	41.32	54.00	-12.68	9.09	3	Horizontal	20	1.42
PK	4.87412G	48.79	74.00	-25.21	5.23	3	Horizontal	69	1.39
PK	7.31164G	50.71	74.00	-23.29	9.09	3	Horizontal	20	1.42

802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX

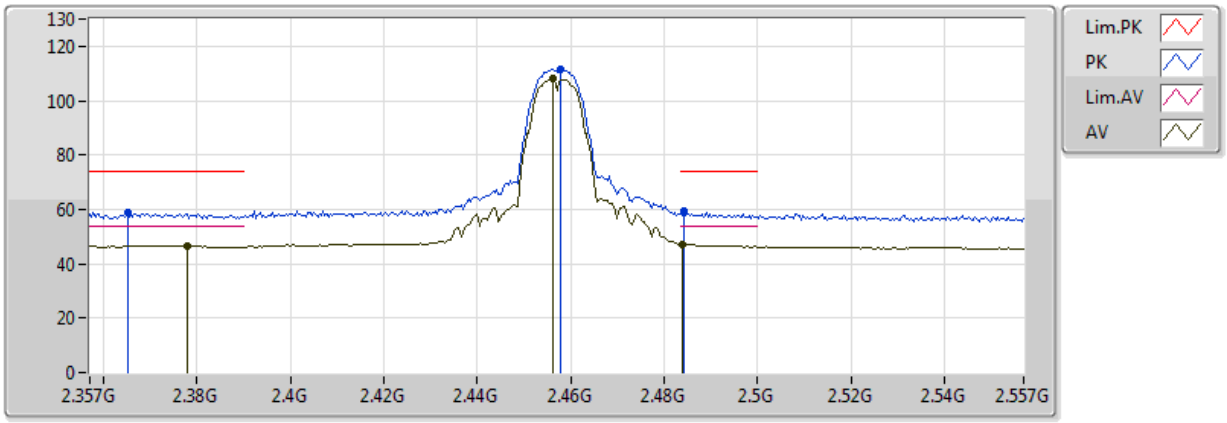


20171102
EUT Z_1TX
Setting 88
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3738G	45.84	54.00	-8.16	32.24	3	Vertical	105	2.67
AV	2.4562G	105.19	Inf	-Inf	32.46	3	Vertical	105	2.67
AV	2.4854G	46.22	54.00	-7.78	32.53	3	Vertical	105	2.67
PK	2.3666G	58.12	74.00	-15.88	32.23	3	Vertical	105	2.67
PK	2.4578G	108.91	Inf	-Inf	32.46	3	Vertical	105	2.67
PK	2.4858G	58.67	74.00	-15.33	32.53	3	Vertical	105	2.67

802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX

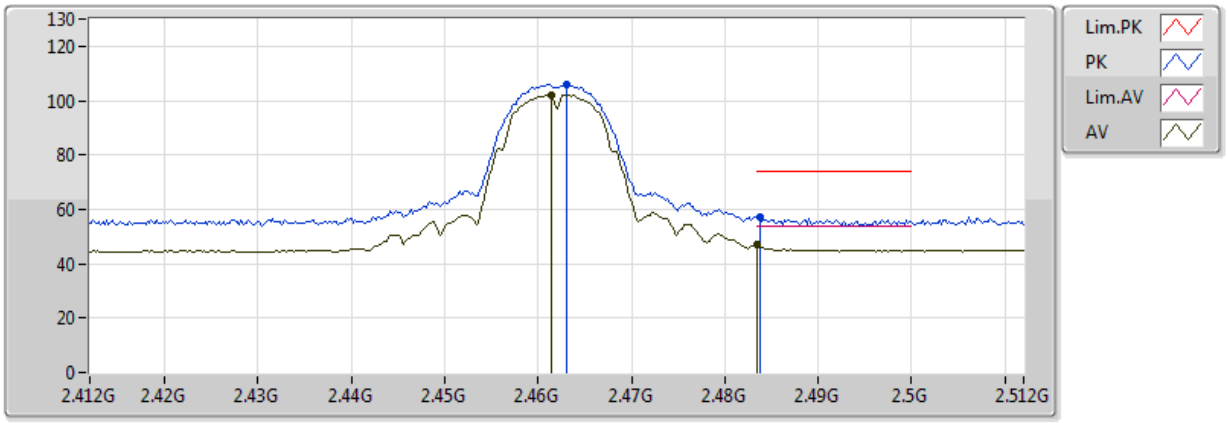


20171102
EUT Z_1TX
Setting 88
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3778G	46.63	54.00	-7.37	32.25	3	Horizontal	10	1.50
AV	2.4562G	107.95	Inf	-Inf	32.46	3	Horizontal	10	1.50
AV	2.4838G	47.33	54.00	-6.67	32.53	3	Horizontal	10	1.50
PK	2.365G	59.05	74.00	-14.95	32.22	3	Horizontal	10	1.50
PK	2.4578G	111.70	Inf	-Inf	32.46	3	Horizontal	10	1.50
PK	2.4842G	59.40	74.00	-14.60	32.53	3	Horizontal	10	1.50

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

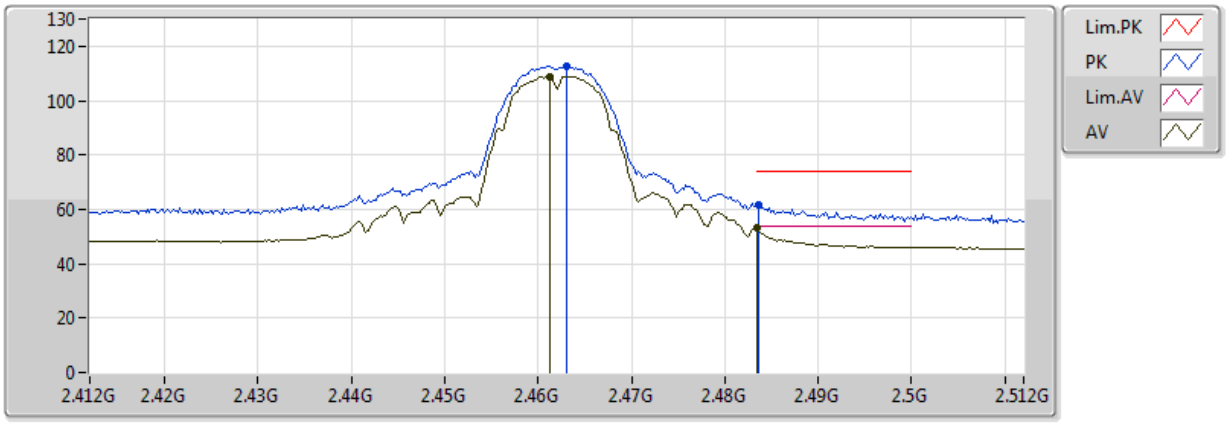


20171025
EUT Z_1TX
Setting 89
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.4614G	102.17	Inf	-Inf	32.47	3	Vertical	101	1.87
AV	2.483502G	46.97	54.00	-7.03	32.53	3	Vertical	101	1.87
PK	2.463G	106.01	Inf	-Inf	32.47	3	Vertical	101	1.87
PK	2.4838G	56.96	74.00	-17.04	32.53	3	Vertical	101	1.87

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

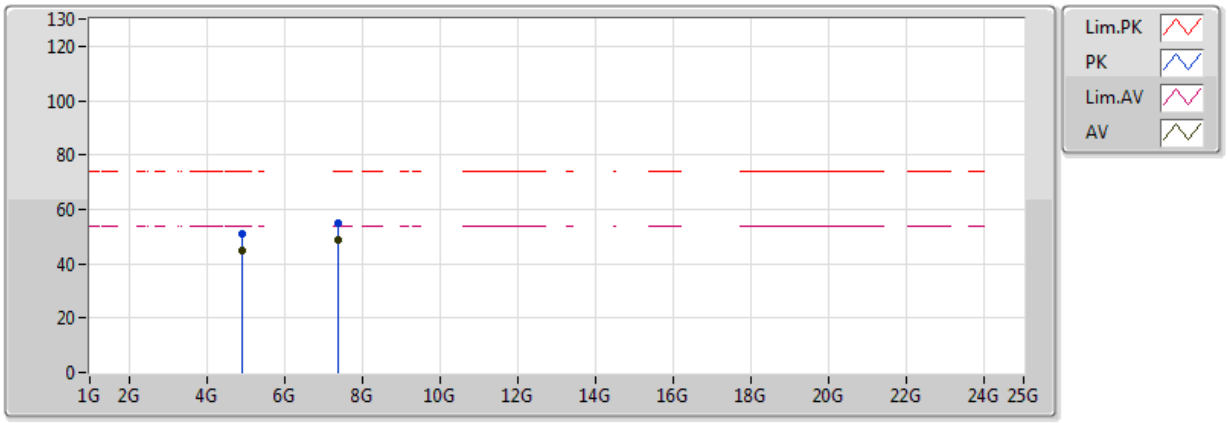


20171025
EUT Z_1TX
Setting 89
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.4612G	108.98	Inf	-Inf	32.47	3	Horizontal	349	1.62
AV	2.483502G	53.09	54.00	-0.91	32.53	3	Horizontal	349	1.62
PK	2.463G	112.89	Inf	-Inf	32.47	3	Horizontal	349	1.62
PK	2.4836G	61.57	74.00	-12.43	32.53	3	Horizontal	349	1.62

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

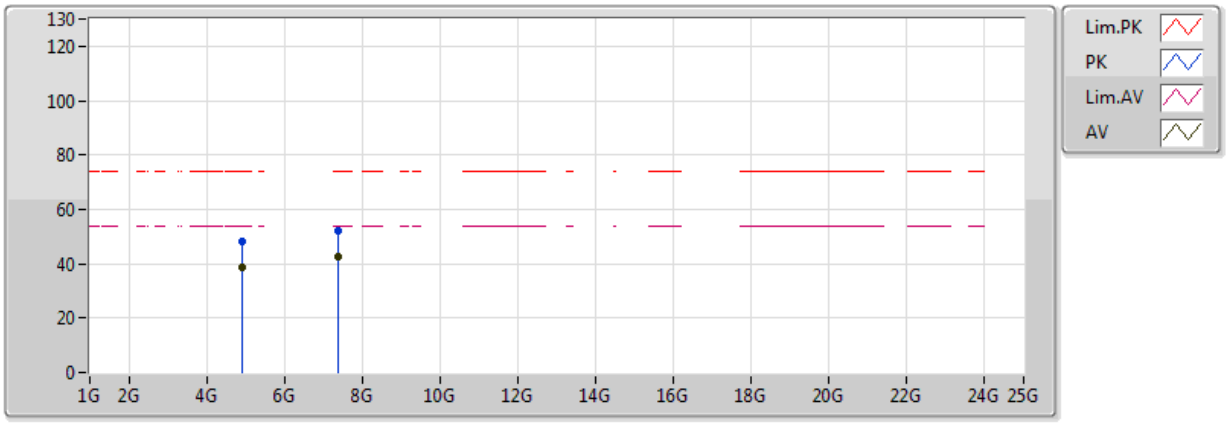


20171025
EUT Z_1TX
Setting 89
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.92394G	44.74	54.00	-9.26	5.45	3	Vertical	215	1.14
AV	7.38664G	48.75	54.00	-5.25	9.06	3	Vertical	49	1.03
PK	4.9238G	50.97	74.00	-23.03	5.45	3	Vertical	215	1.14
PK	7.38502G	55.08	74.00	-18.92	9.06	3	Vertical	49	1.03

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

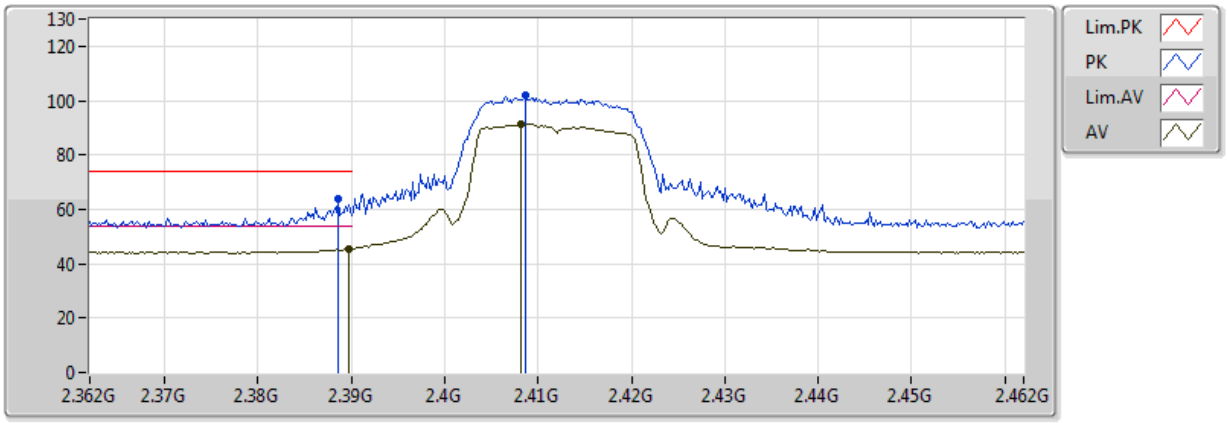


20171025
EUT Z_1TX
Setting 89
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.92394G	38.64	54.00	-15.36	5.45	3	Horizontal	68	1.16
AV	7.38514G	42.31	54.00	-11.69	9.06	3	Horizontal	18	1.50
PK	4.92404G	48.23	74.00	-25.77	5.45	3	Horizontal	68	1.16
PK	7.38502G	52.30	74.00	-21.70	9.06	3	Horizontal	18	1.50

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

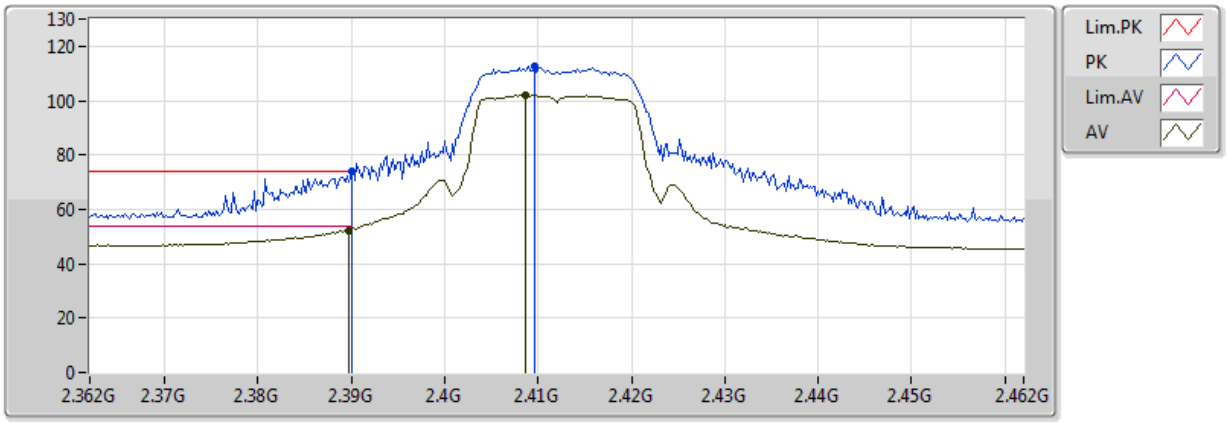


20171025
EUT Z_1TX
Setting 74
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3898G	45.51	54.00	-8.49	32.28	3	Vertical	349	1.49
AV	2.4082G	91.19	Inf	-Inf	32.33	3	Vertical	349	1.49
PK	2.3886G	64.08	74.00	-9.92	32.28	3	Vertical	349	1.49
PK	2.4086G	102.06	Inf	-Inf	32.33	3	Vertical	349	1.49

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

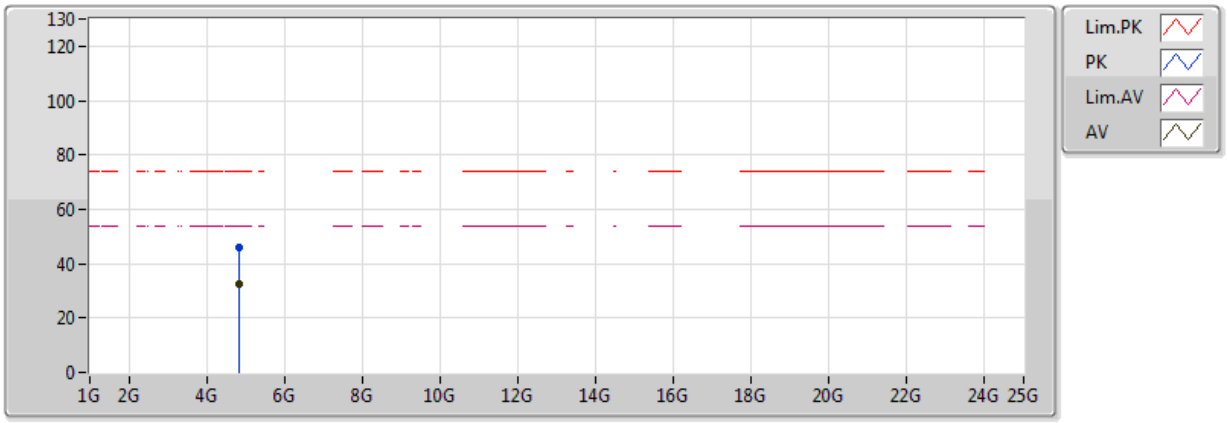


20171025
EUT Z_1TX
Setting 74
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3898G	52.39	54.00	-1.61	32.28	3	Horizontal	357	1.64
AV	2.4086G	101.97	Inf	-Inf	32.33	3	Horizontal	357	1.64
PK	2.39G	73.98	74.00	-0.02	32.28	3	Horizontal	357	1.64
PK	2.4096G	112.49	Inf	-Inf	32.33	3	Horizontal	357	1.64

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

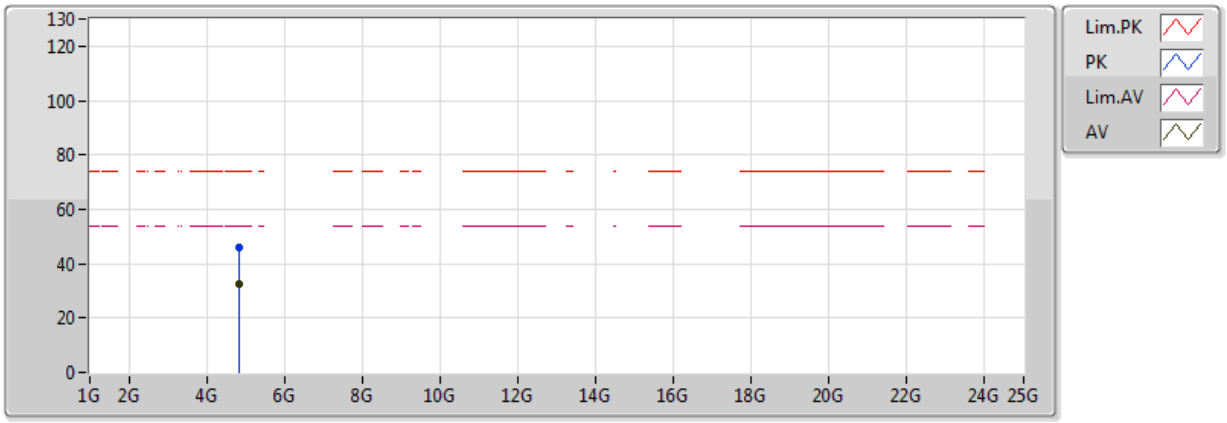


20171025
EUT Z_1TX
Setting 74
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.82324G	32.65	54.00	-21.35	5.00	3	Vertical	216	1.24
PK	4.82352G	45.92	74.00	-28.08	5.00	3	Vertical	216	1.24

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

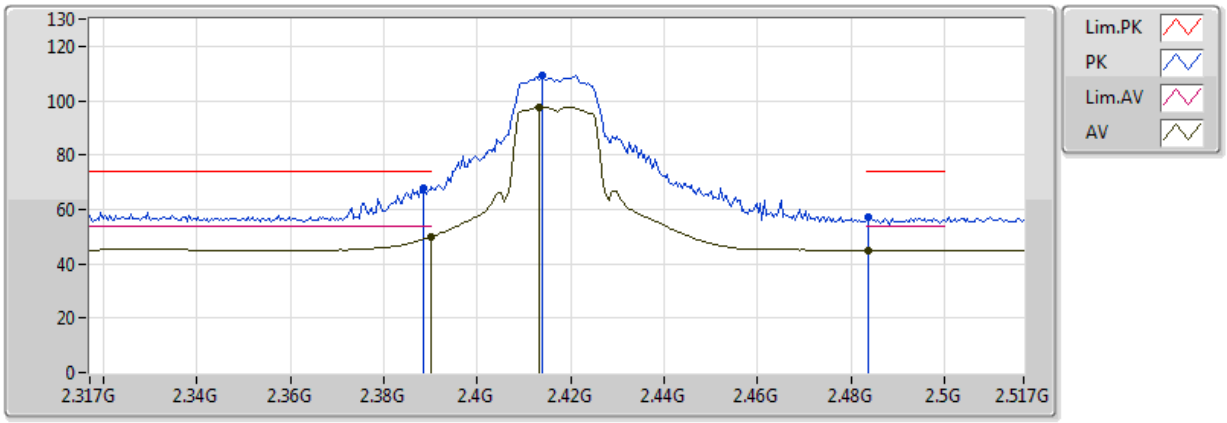


20171025
EUT Z_1TX
Setting 74
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.8225G	32.59	54.00	-21.41	5.00	3	Horizontal	276	2.32
PK	4.82236G	45.99	74.00	-28.01	5.00	3	Horizontal	276	2.32

802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX

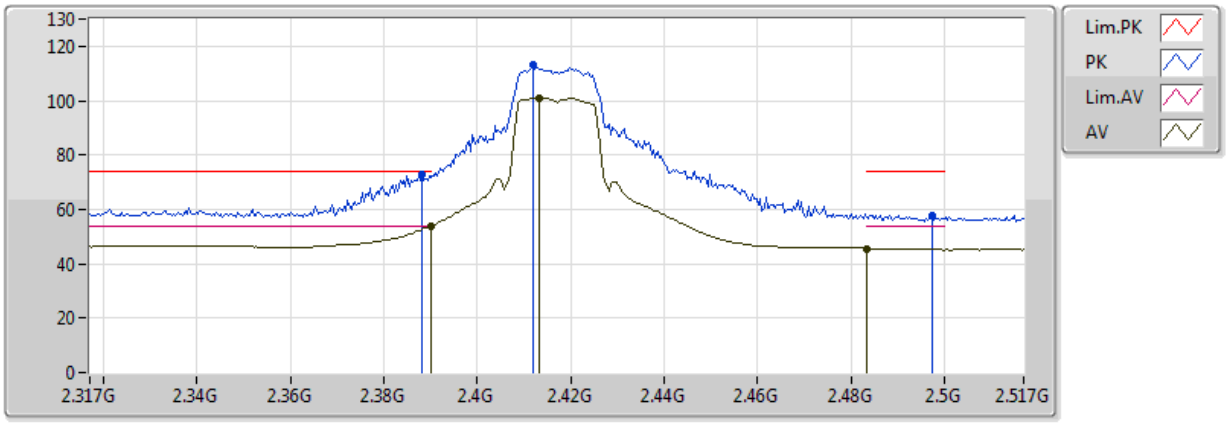


20171102
EUT Z_1TX
Setting 85
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	49.82	54.00	-4.18	32.28	3	Vertical	110	2.81
AV	2.4134G	97.63	Inf	-Inf	32.34	3	Vertical	110	2.81
AV	2.4838G	44.76	54.00	-9.24	32.53	3	Vertical	110	2.81
PK	2.3886G	67.95	74.00	-6.05	32.28	3	Vertical	110	2.81
PK	2.4138G	109.25	Inf	-Inf	32.35	3	Vertical	110	2.81
PK	2.4838G	56.97	74.00	-17.03	32.53	3	Vertical	110	2.81

802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX

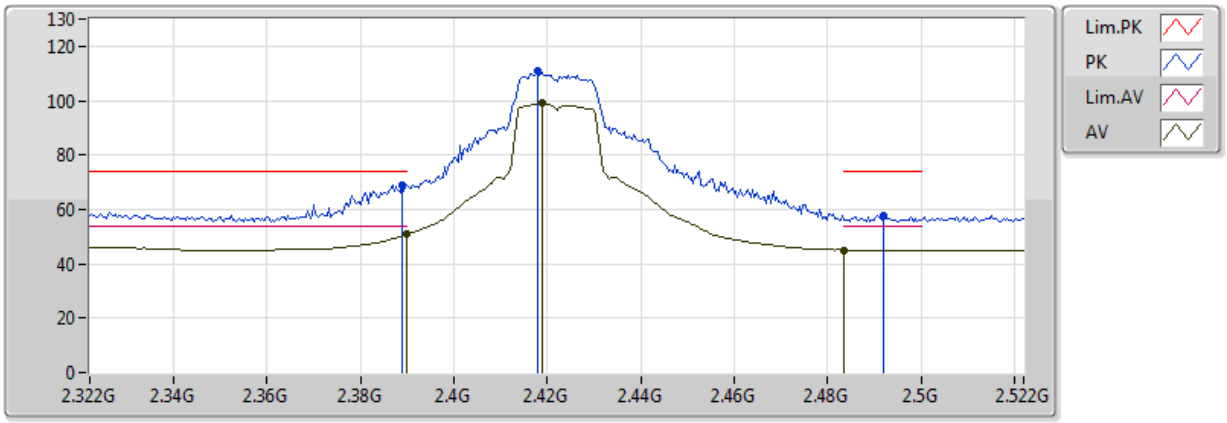


20171102
EUT Z_1TX
Setting 85
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	53.75	54.00	-0.25	32.28	3	Horizontal	18	1.10
AV	2.4134G	101.12	Inf	-Inf	32.34	3	Horizontal	18	1.10
AV	2.483502G	45.62	54.00	-8.38	32.53	3	Horizontal	18	1.10
PK	2.3882G	72.78	74.00	-1.22	32.28	3	Horizontal	18	1.10
PK	2.4118G	112.98	Inf	-Inf	32.34	3	Horizontal	18	1.10
PK	2.4974G	57.98	74.00	-16.02	32.56	3	Horizontal	18	1.10

802.11g_Nss1,(6Mbps)_1TX

2422MHz_TX

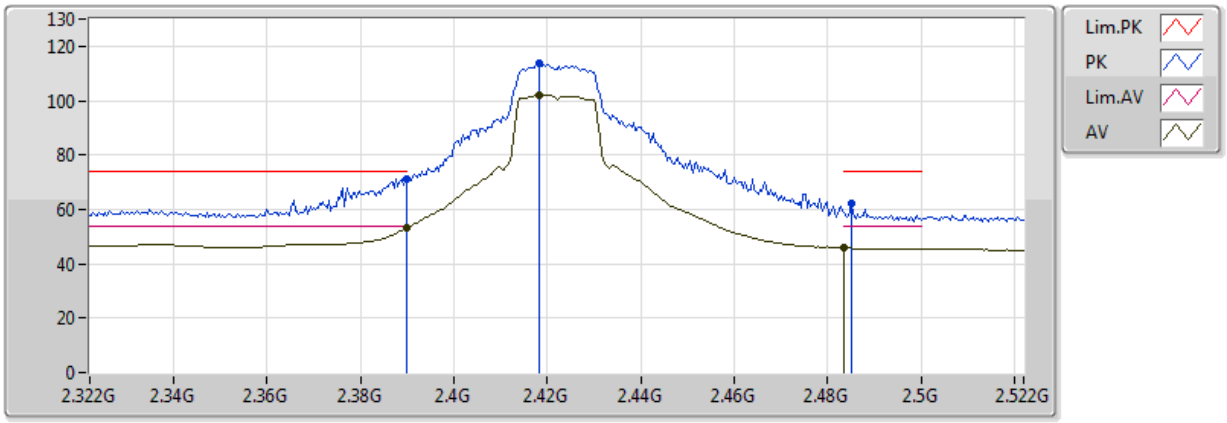


20171102
EUT Z_1TX
Setting 91
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	50.76	54.00	-3.24	32.28	3	Vertical	106	2.81
AV	2.4188G	99.07	Inf	-Inf	32.36	3	Vertical	106	2.81
AV	2.4836G	45.10	54.00	-8.90	32.53	3	Vertical	106	2.81
PK	2.3888G	68.86	74.00	-5.14	32.28	3	Vertical	106	2.81
PK	2.418G	110.74	Inf	-Inf	32.36	3	Vertical	106	2.81
PK	2.492G	57.87	74.00	-16.13	32.55	3	Vertical	106	2.81

802.11g_Nss1,(6Mbps)_1TX

2422MHz_TX

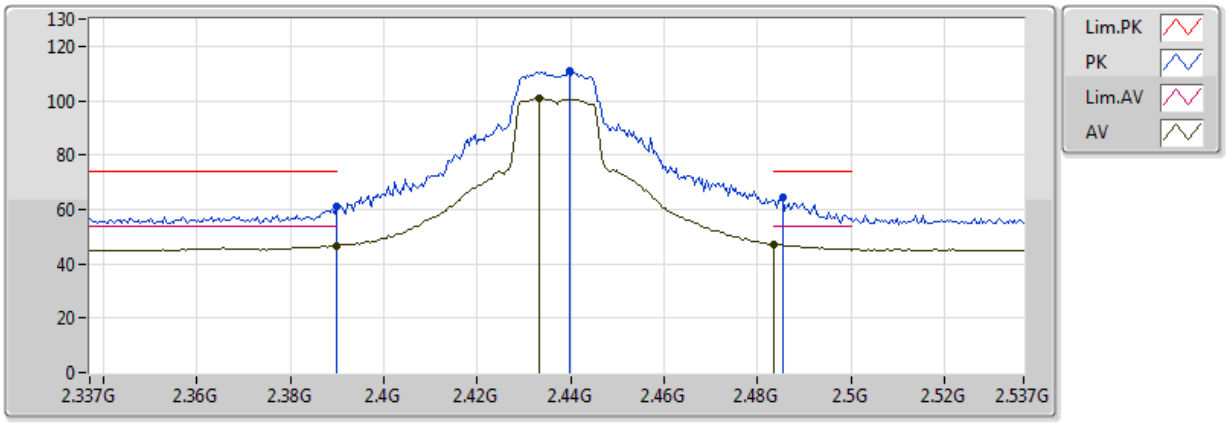


20171102
EUT Z_1TX
Setting 91
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	53.26	54.00	-0.74	32.28	3	Horizontal	21	1.50
AV	2.4184G	102.23	Inf	-Inf	32.36	3	Horizontal	21	1.50
AV	2.4836G	45.77	54.00	-8.23	32.53	3	Horizontal	21	1.50
PK	2.39G	71.04	74.00	-2.96	32.28	3	Horizontal	21	1.50
PK	2.4184G	113.96	Inf	-Inf	32.36	3	Horizontal	21	1.50
PK	2.4852G	62.13	74.00	-11.87	32.53	3	Horizontal	21	1.50

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

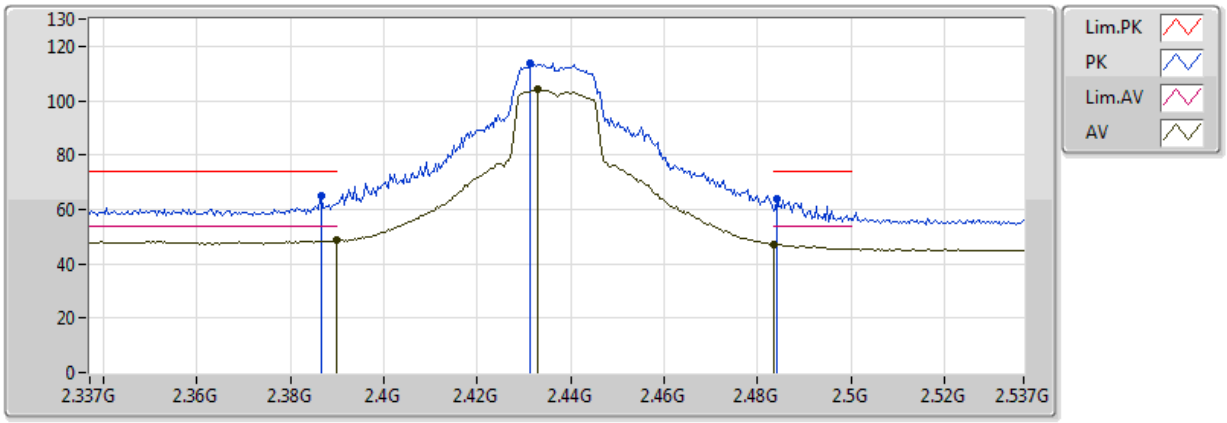


20171025
EUT Z_1TX
Setting 91
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	46.67	54.00	-7.33	32.28	3	Vertical	109	2.83
AV	2.4334G	100.92	Inf	-Inf	32.40	3	Vertical	109	2.83
AV	2.483502G	47.20	54.00	-6.80	32.53	3	Vertical	109	2.83
PK	2.389998G	61.09	74.00	-12.91	32.28	3	Vertical	109	2.83
PK	2.4398G	110.84	Inf	-Inf	32.41	3	Vertical	109	2.83
PK	2.4854G	64.38	74.00	-9.62	32.53	3	Vertical	109	2.83

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



20171025
EUT Z_1TX
Setting 91
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	48.52	54.00	-5.48	32.28	3	Horizontal	20	1.48
AV	2.433G	104.04	Inf	-Inf	32.40	3	Horizontal	20	1.48
AV	2.483502G	47.16	54.00	-6.84	32.53	3	Horizontal	20	1.48
PK	2.3866G	64.80	74.00	-9.20	32.28	3	Horizontal	20	1.48
PK	2.4314G	113.62	Inf	-Inf	32.39	3	Horizontal	20	1.48
PK	2.4842G	63.69	74.00	-10.31	32.53	3	Horizontal	20	1.48

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

20171025
EUT Z_1TX
Setting 91
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	7.31032G	45.61	54.00	-8.39	9.09	3	Vertical	49	1.06
PK	7.3118G	60.79	74.00	-13.21	9.09	3	Vertical	49	1.06

802.11g_Nss1,(6Mbps)_1TX

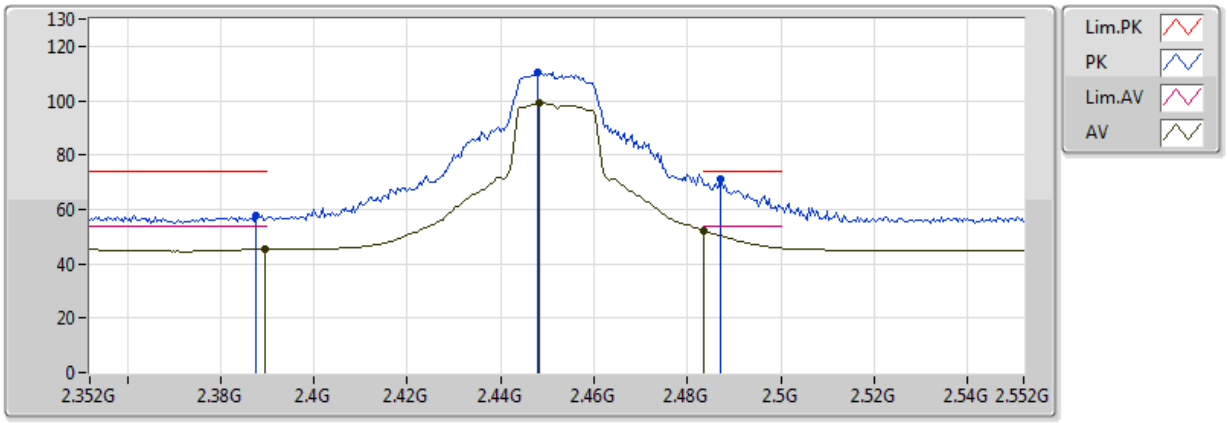
2437MHz_TX

20171025
EUT Z_1TX
Setting 91
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	7.30892G	39.76	54.00	-14.24	9.09	3	Horizontal	20	1.40
PK	7.30544G	54.43	74.00	-19.57	9.09	3	Horizontal	20	1.40

802.11g_Nss1,(6Mbps)_1TX

2452MHz_TX

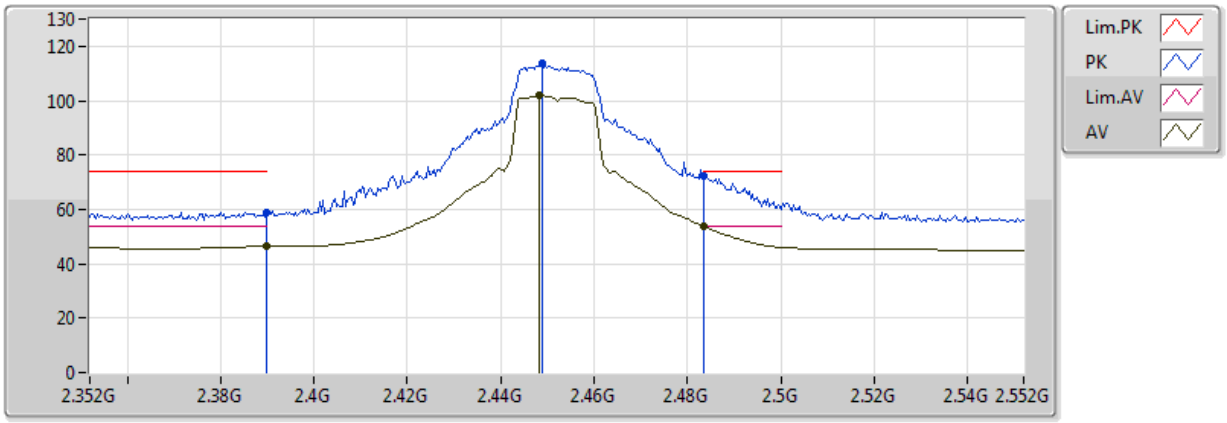


20171102
EUT Z_1TX
Setting 91
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3896G	45.29	54.00	-8.71	32.28	3	Vertical	102	2.74
AV	2.4484G	99.20	Inf	-Inf	32.44	3	Vertical	102	2.74
AV	2.4836G	52.14	54.00	-1.86	32.53	3	Vertical	102	2.74
PK	2.3876G	57.76	74.00	-16.24	32.28	3	Vertical	102	2.74
PK	2.448G	110.18	Inf	-Inf	32.43	3	Vertical	102	2.74
PK	2.4872G	71.12	74.00	-2.88	32.54	3	Vertical	102	2.74

802.11g_Nss1,(6Mbps)_1TX

2452MHz_TX

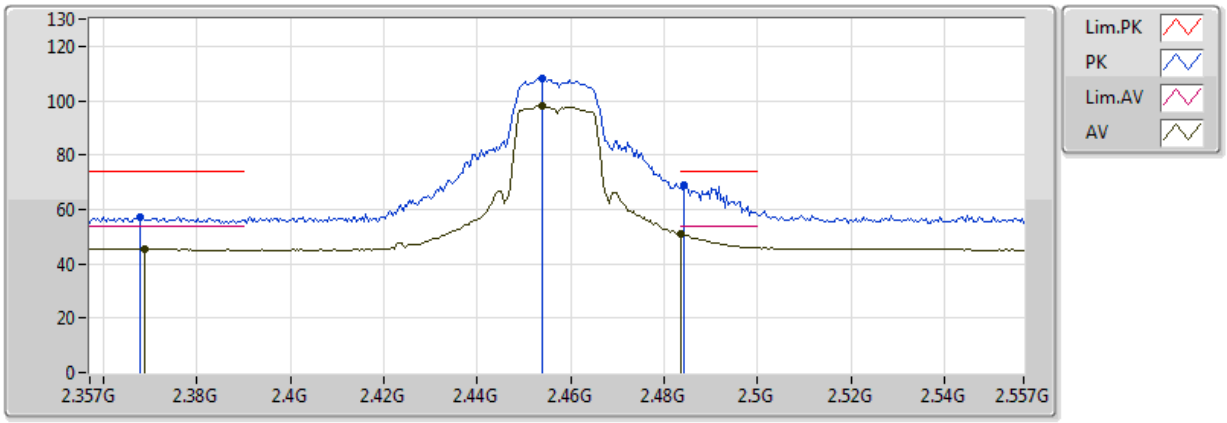


20171102
EUT Z_1TX
Setting 91
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	46.50	54.00	-7.50	32.28	3	Horizontal	15	2.45
AV	2.4484G	101.90	Inf	-Inf	32.44	3	Horizontal	15	2.45
AV	2.4836G	53.59	54.00	-0.41	32.53	3	Horizontal	15	2.45
PK	2.39G	59.02	74.00	-14.98	32.28	3	Horizontal	15	2.45
PK	2.4488G	113.72	Inf	-Inf	32.44	3	Horizontal	15	2.45
PK	2.4836G	72.25	74.00	-1.75	32.53	3	Horizontal	15	2.45

802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX

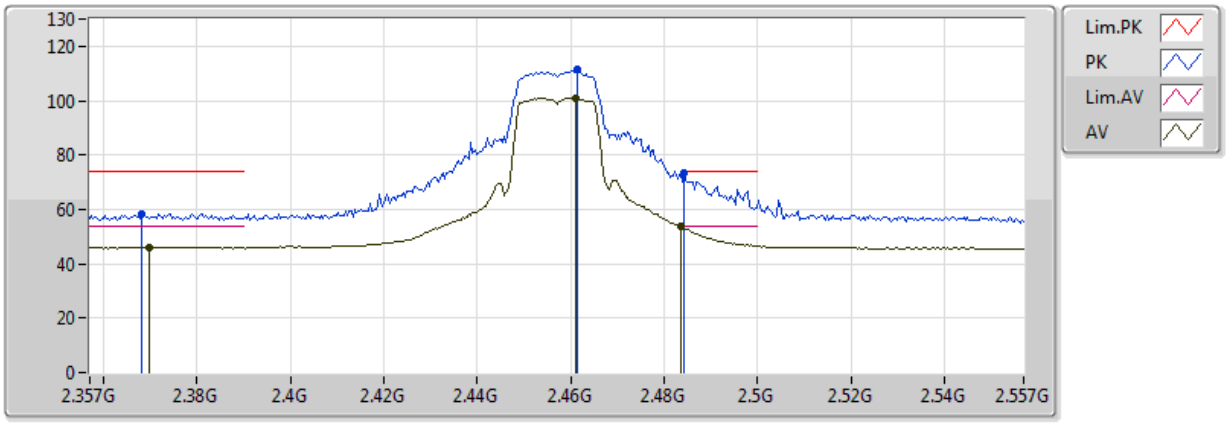


20171102
EUT Z_1TX
Setting 83
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3686G	45.59	54.00	-8.41	32.23	3	Vertical	107	2.65
AV	2.4538G	98.16	Inf	-Inf	32.45	3	Vertical	107	2.65
AV	2.483502G	50.78	54.00	-3.22	32.53	3	Vertical	107	2.65
PK	2.3678G	57.04	74.00	-16.96	32.23	3	Vertical	107	2.65
PK	2.4538G	108.27	Inf	-Inf	32.45	3	Vertical	107	2.65
PK	2.4842G	68.81	74.00	-5.19	32.53	3	Vertical	107	2.65

802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX

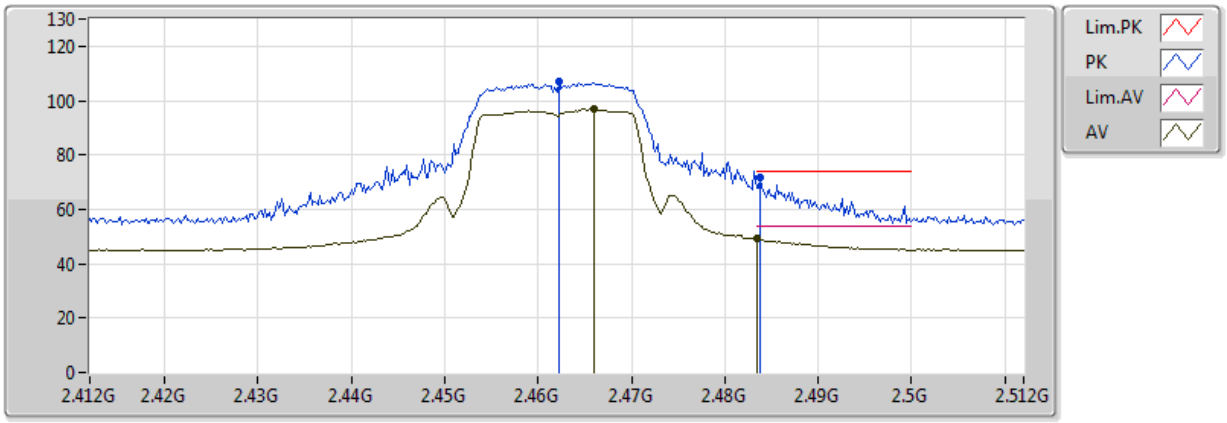


20171102
EUT Z_1TX
Setting 83
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3698G	46.20	54.00	-7.80	32.23	3	Horizontal	4	1.50
AV	2.461G	100.89	Inf	-Inf	32.47	3	Horizontal	4	1.50
AV	2.483502G	53.65	54.00	-0.35	32.53	3	Horizontal	4	1.50
PK	2.3682G	58.43	74.00	-15.57	32.23	3	Horizontal	4	1.50
PK	2.4614G	111.49	Inf	-Inf	32.47	3	Horizontal	4	1.50
PK	2.4842G	73.58	74.00	-0.42	32.53	3	Horizontal	4	1.50

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

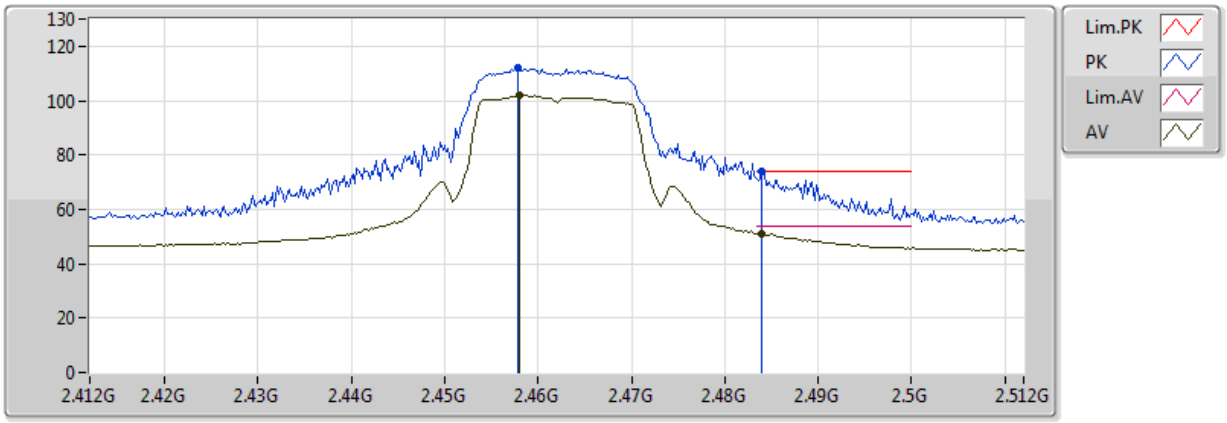


20171025
EUT Z_1TX
Setting 75
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.466G	96.86	Inf	-Inf	32.48	3	Vertical	107	2.97
AV	2.483502G	49.19	54.00	-4.81	32.53	3	Vertical	107	2.97
PK	2.4622G	107.02	Inf	-Inf	32.47	3	Vertical	107	2.97
PK	2.4838G	71.51	74.00	-2.49	32.53	3	Vertical	107	2.97

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



20171025
EUT Z_1TX
Setting 75
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.458G	101.84	Inf	-Inf	32.46	3	Horizontal	358	2.02
AV	2.484G	51.24	54.00	-2.76	32.53	3	Horizontal	358	2.02
PK	2.4578G	111.89	Inf	-Inf	32.46	3	Horizontal	358	2.02
PK	2.484G	73.85	74.00	-0.15	32.53	3	Horizontal	358	2.02

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

20171025
EUT Z_1TX
Setting 75
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	7.3844G	36.85	54.00	-17.15	9.06	3	Vertical	18	1.46
PK	7.388G	50.53	74.00	-23.47	9.05	3	Vertical	18	1.46

802.11g_Nss1,(6Mbps)_1TX

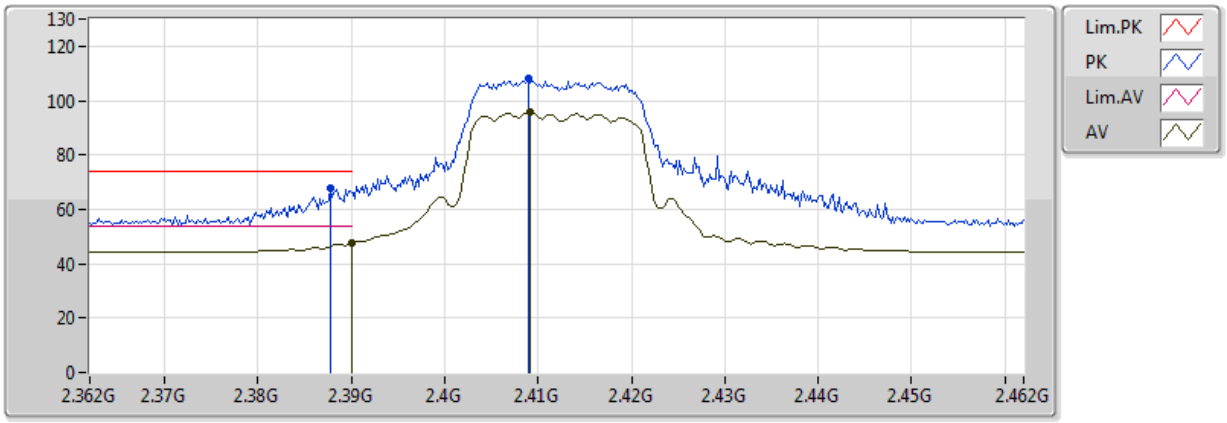
2462MHz_TX

20171025
EUT Z_1TX
Setting 75
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	7.39592G	35.98	54.00	-18.02	9.05	3	Horizontal	53	2.88
PK	7.38268G	49.50	74.00	-24.50	9.06	3	Horizontal	53	2.88

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

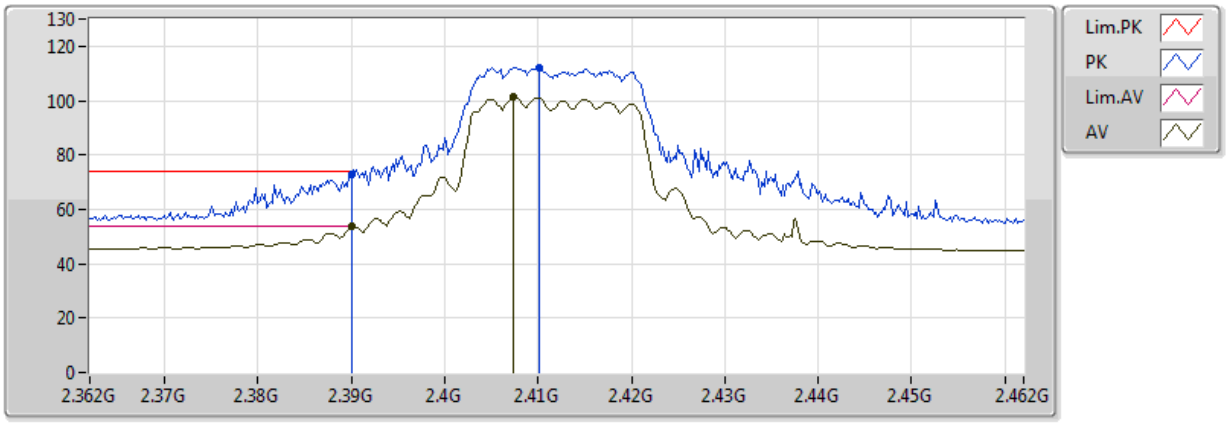


20171025
EUT Z_2TX
Setting 75
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	47.39	54.00	-6.61	32.28	3	Vertical	38	2.35
AV	2.4092G	95.84	Inf	-Inf	32.33	3	Vertical	38	2.35
PK	2.3878G	67.55	74.00	-6.45	32.28	3	Vertical	38	2.35
PK	2.409G	108.25	Inf	-Inf	32.33	3	Vertical	38	2.35

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

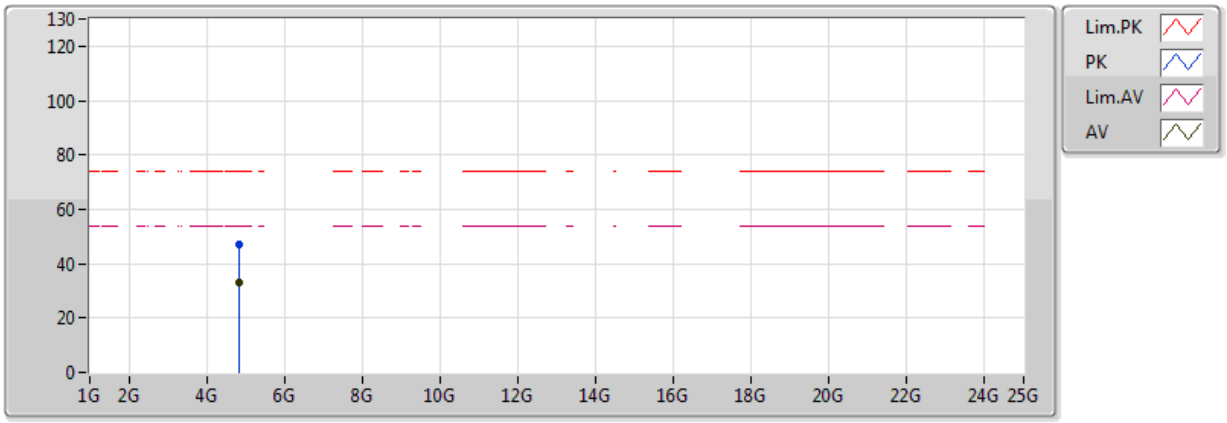


20171025
EUT Z_2TX
Setting 75
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	53.52	54.00	-0.48	32.28	3	Horizontal	73	1.10
AV	2.4074G	101.17	Inf	-Inf	32.33	3	Horizontal	73	1.10
PK	2.39G	72.82	74.00	-1.18	32.28	3	Horizontal	73	1.10
PK	2.4102G	112.14	Inf	-Inf	32.34	3	Horizontal	73	1.10

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

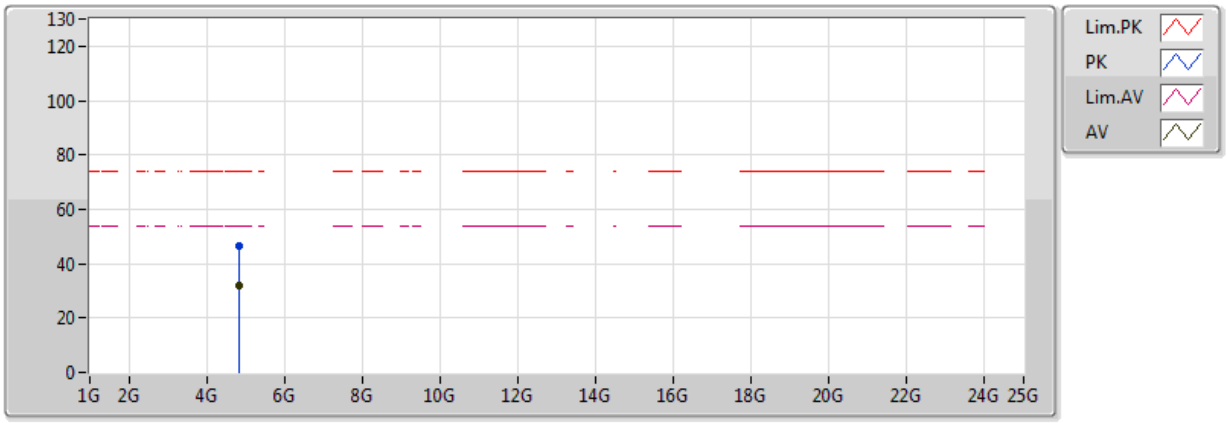


20171025
EUT Z_2TX
Setting 75
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.82344G	33.13	54.00	-20.87	5.00	3	Vertical	220	1.44
PK	4.83088G	46.92	74.00	-27.08	5.04	3	Vertical	220	1.44

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

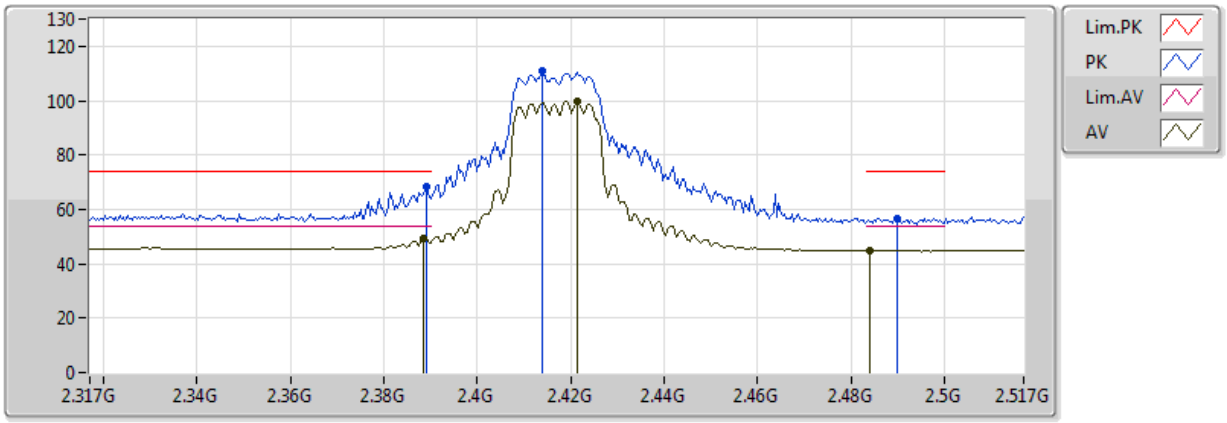


20171025
EUT Z_2TX
Setting 75
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.83284G	31.83	54.00	-22.17	5.04	3	Horizontal	48	1.03
PK	4.82656G	46.33	74.00	-27.67	5.02	3	Horizontal	48	1.03

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

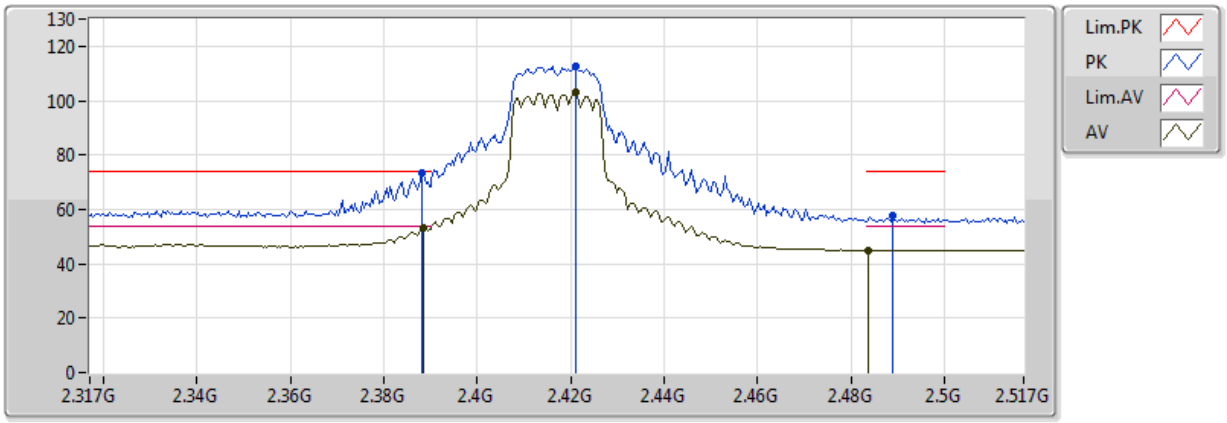


20171102
EUT Z_2TX
Setting 82
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3886G	49.30	54.00	-4.70	32.28	3	Vertical	41	2.92
AV	2.4214G	99.59	Inf	-Inf	32.37	3	Vertical	41	2.92
AV	2.4842G	44.81	54.00	-9.19	32.53	3	Vertical	41	2.92
PK	2.389G	68.24	74.00	-5.76	32.28	3	Vertical	41	2.92
PK	2.4138G	110.76	Inf	-Inf	32.35	3	Vertical	41	2.92
PK	2.4898G	56.77	74.00	-17.23	32.54	3	Vertical	41	2.92

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

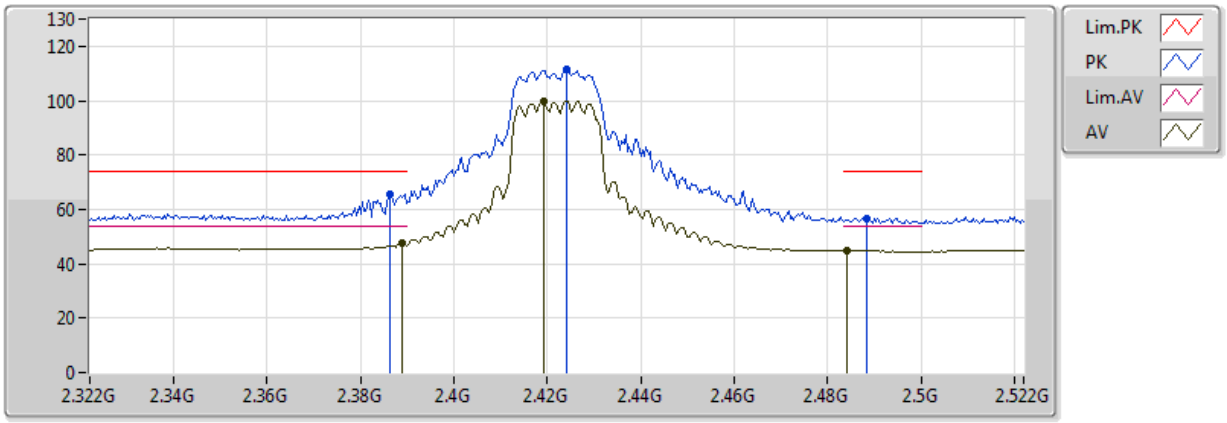


20171102
EUT Z_2TX
Setting 82
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3886G	53.37	54.00	-0.63	32.28	3	Horizontal	331	1.50
AV	2.421G	102.87	Inf	-Inf	32.36	3	Horizontal	331	1.50
AV	2.4838G	45.03	54.00	-8.97	32.53	3	Horizontal	331	1.50
PK	2.3882G	73.46	74.00	-0.54	32.28	3	Horizontal	331	1.50
PK	2.421G	112.88	Inf	-Inf	32.36	3	Horizontal	331	1.50
PK	2.489G	57.77	74.00	-16.23	32.54	3	Horizontal	331	1.50

802.11n HT20_Nss1,(MCS0)_2TX

2422MHz_TX

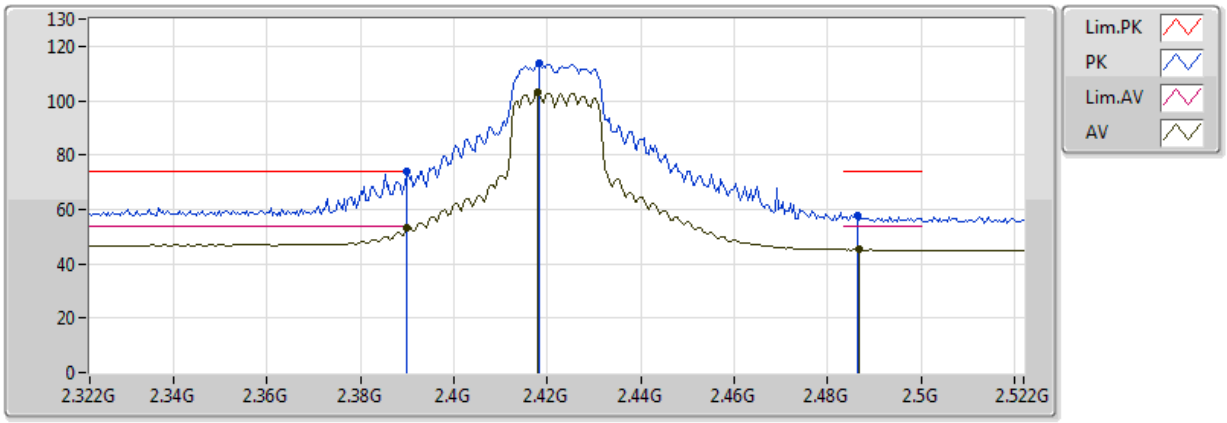


20171102
EUT Z_2TX
Setting 85
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3888G	47.79	54.00	-6.21	32.28	3	Vertical	41	2.94
AV	2.4192G	99.85	Inf	-Inf	32.36	3	Vertical	41	2.94
AV	2.484G	44.76	54.00	-9.24	32.53	3	Vertical	41	2.94
PK	2.3864G	65.84	74.00	-8.16	32.28	3	Vertical	41	2.94
PK	2.424G	111.43	Inf	-Inf	32.37	3	Vertical	41	2.94
PK	2.4884G	56.80	74.00	-17.20	32.54	3	Vertical	41	2.94

802.11n HT20_Nss1,(MCS0)_2TX

2422MHz_TX

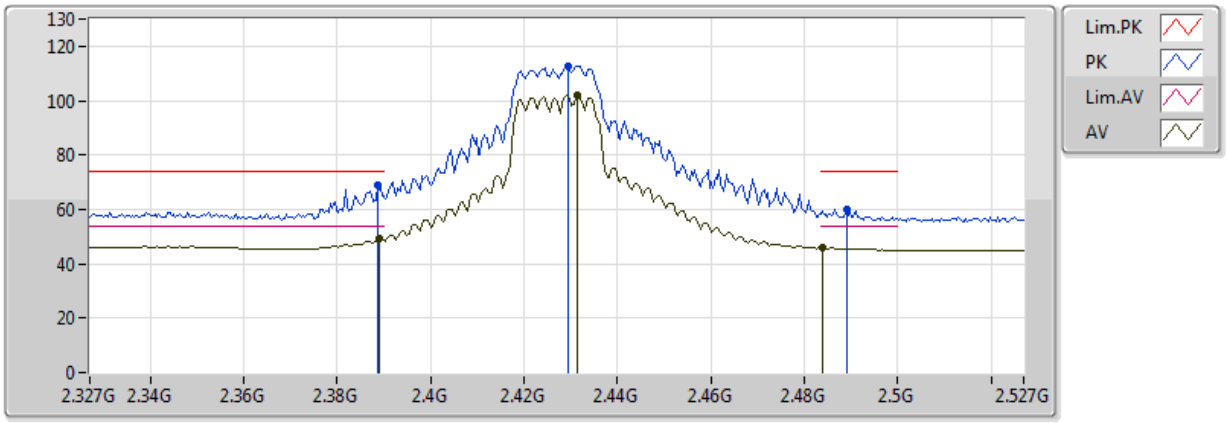


20171102
EUT Z_2TX
Setting 85
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	52.99	54.00	-1.01	32.28	3	Horizontal	323	1.29
AV	2.418G	102.98	Inf	-Inf	32.36	3	Horizontal	323	1.29
AV	2.4868G	45.14	54.00	-8.86	32.54	3	Horizontal	323	1.29
PK	2.39G	73.91	74.00	-0.09	32.28	3	Horizontal	323	1.29
PK	2.4184G	113.77	Inf	-Inf	32.36	3	Horizontal	323	1.29
PK	2.4864G	57.64	74.00	-16.36	32.53	3	Horizontal	323	1.29

802.11n HT20_Nss1,(MCS0)_2TX

2427MHz_TX

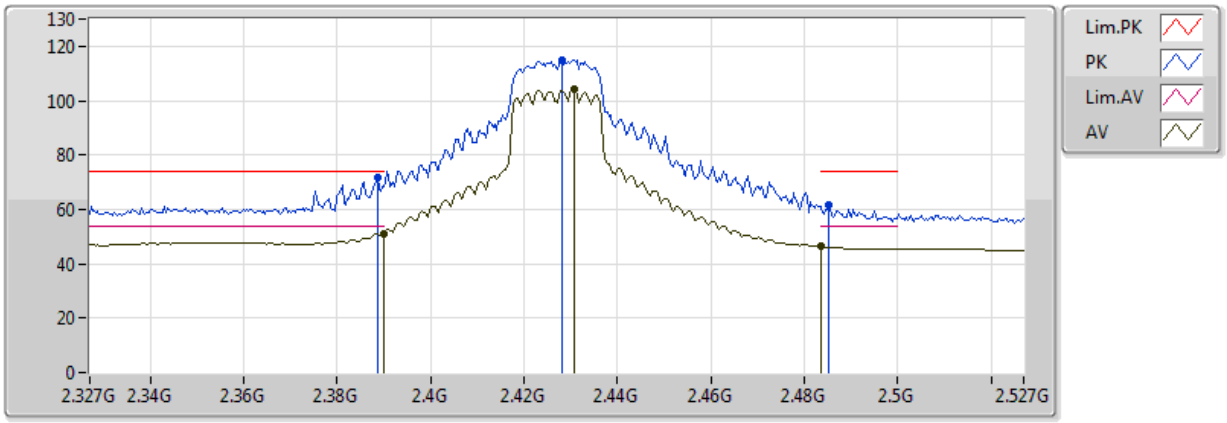


20171102
EUT Z_2TX
Setting 89
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389G	49.20	54.00	-4.80	32.28	3	Vertical	103	2.72
AV	2.4314G	102.01	Inf	-Inf	32.39	3	Vertical	103	2.72
AV	2.4838G	45.82	54.00	-8.18	32.53	3	Vertical	103	2.72
PK	2.3886G	68.76	74.00	-5.24	32.28	3	Vertical	103	2.72
PK	2.4294G	112.78	Inf	-Inf	32.39	3	Vertical	103	2.72
PK	2.489G	60.00	74.00	-14.00	32.54	3	Vertical	103	2.72

802.11n HT20_Nss1,(MCS0)_2TX

2427MHz_TX

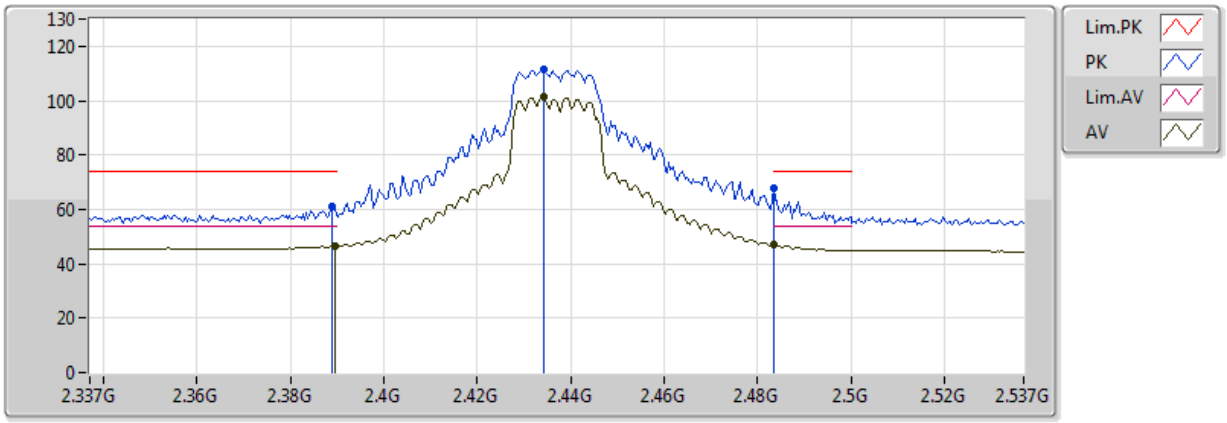


20171102
EUT Z_2TX
Setting 89
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	51.19	54.00	-2.81	32.28	3	Horizontal	326	1.01
AV	2.4306G	104.18	Inf	-Inf	32.39	3	Horizontal	326	1.01
AV	2.483502G	46.24	54.00	-7.76	32.53	3	Horizontal	326	1.01
PK	2.3886G	71.79	74.00	-2.21	32.28	3	Horizontal	326	1.01
PK	2.4282G	114.81	Inf	-Inf	32.38	3	Horizontal	326	1.01
PK	2.4854G	61.62	74.00	-12.38	32.53	3	Horizontal	326	1.01

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

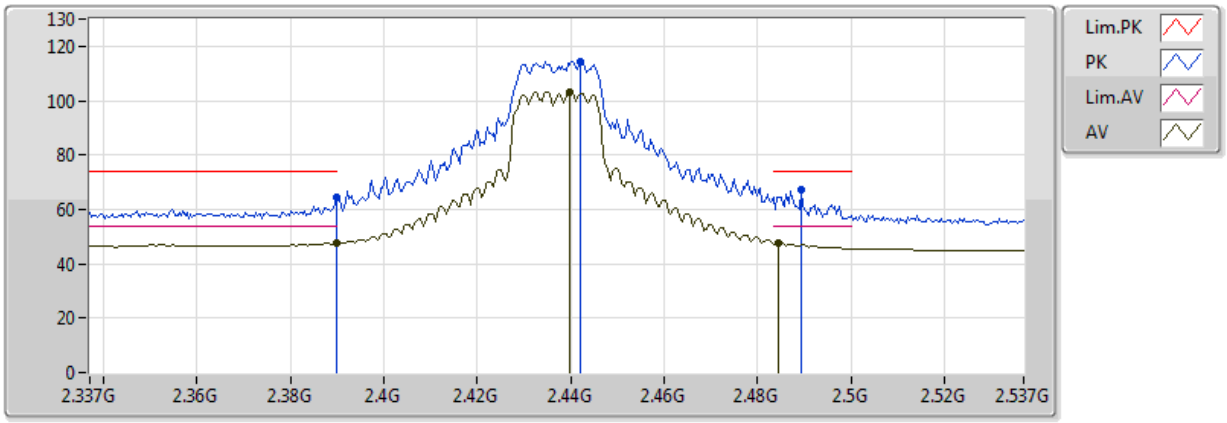


20171025
EUT Z_2TX
Setting 89
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3894G	46.67	54.00	-7.33	32.28	3	Vertical	107	2.80
AV	2.4342G	101.28	Inf	-Inf	32.40	3	Vertical	107	2.80
AV	2.483502G	46.98	54.00	-7.02	32.53	3	Vertical	107	2.80
PK	2.389G	61.29	74.00	-12.71	32.28	3	Vertical	107	2.80
PK	2.4342G	111.56	Inf	-Inf	32.40	3	Vertical	107	2.80
PK	2.483502G	68.08	74.00	-5.92	32.53	3	Vertical	107	2.80

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

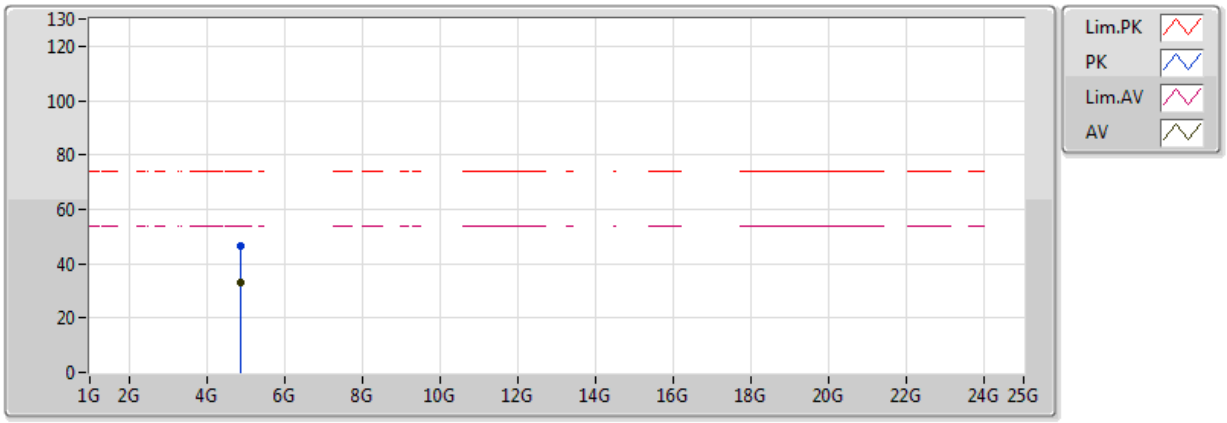


20171025
EUT Z_2TX
Setting 89
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	47.78	54.00	-6.22	32.28	3	Horizontal	69	1.46
AV	2.4398G	103.34	Inf	-Inf	32.41	3	Horizontal	69	1.46
AV	2.4846G	47.89	54.00	-6.11	32.53	3	Horizontal	69	1.46
PK	2.389998G	64.64	74.00	-9.36	32.28	3	Horizontal	69	1.46
PK	2.4422G	114.38	Inf	-Inf	32.42	3	Horizontal	69	1.46
PK	2.4894G	67.13	74.00	-6.87	32.54	3	Horizontal	69	1.46

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

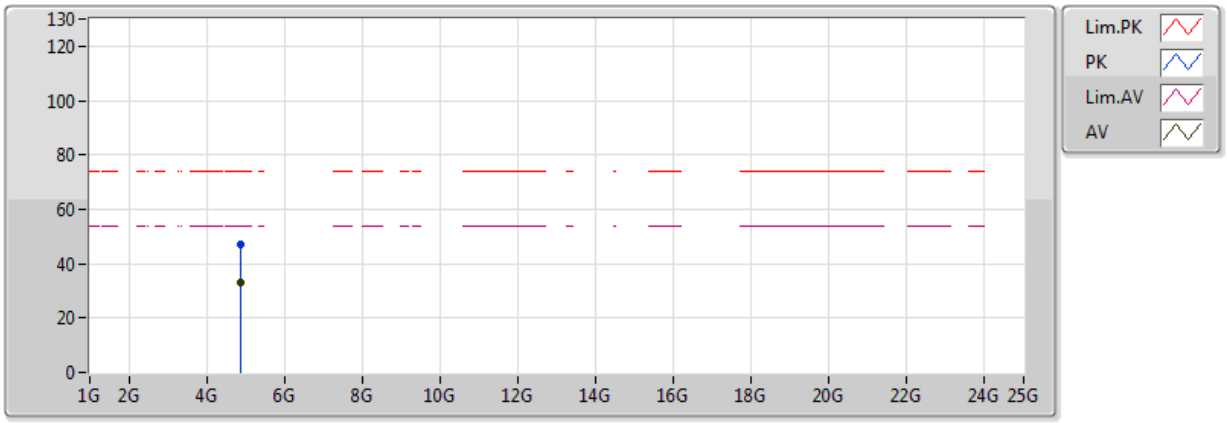


20171025
EUT Z_2TX
Setting 89
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.86852G	33.04	54.00	-20.96	5.20	3	Vertical	89	2.03
PK	4.86612G	46.41	74.00	-27.59	5.19	3	Vertical	89	2.03

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

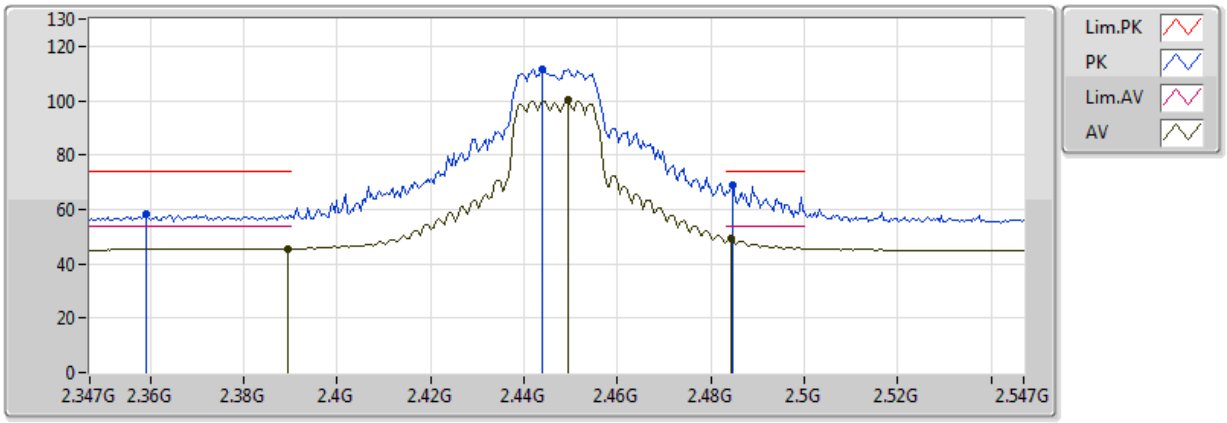


20171025
EUT Z_2TX
Setting 89
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.87104G	33.02	54.00	-20.98	5.21	3	Horizontal	264	2.37
PK	4.8736G	47.10	74.00	-26.90	5.22	3	Horizontal	264	2.37

802.11n HT20_Nss1,(MCS0)_2TX

2447MHz_TX

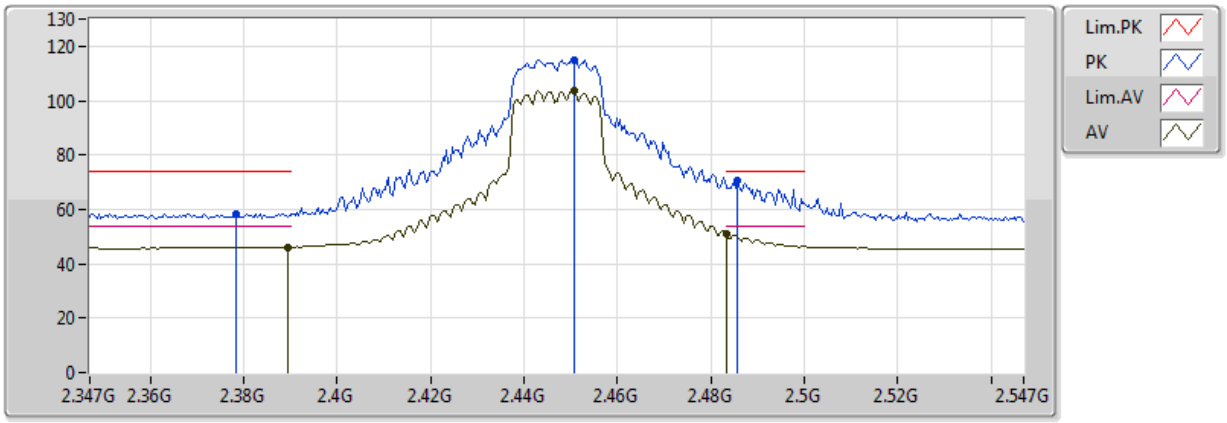


20171102
EUT Z_2TX
Setting 89
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3894G	45.55	54.00	-8.45	32.28	3	Vertical	40	2.58
AV	2.4494G	100.06	Inf	-Inf	32.44	3	Vertical	40	2.58
AV	2.4842G	49.08	54.00	-4.92	32.53	3	Vertical	40	2.58
PK	2.359G	58.41	74.00	-15.59	32.21	3	Vertical	40	2.58
PK	2.4438G	111.71	Inf	-Inf	32.42	3	Vertical	40	2.58
PK	2.4846G	68.78	74.00	-5.22	32.53	3	Vertical	40	2.58

802.11n HT20_Nss1,(MCS0)_2TX

2447MHz_TX

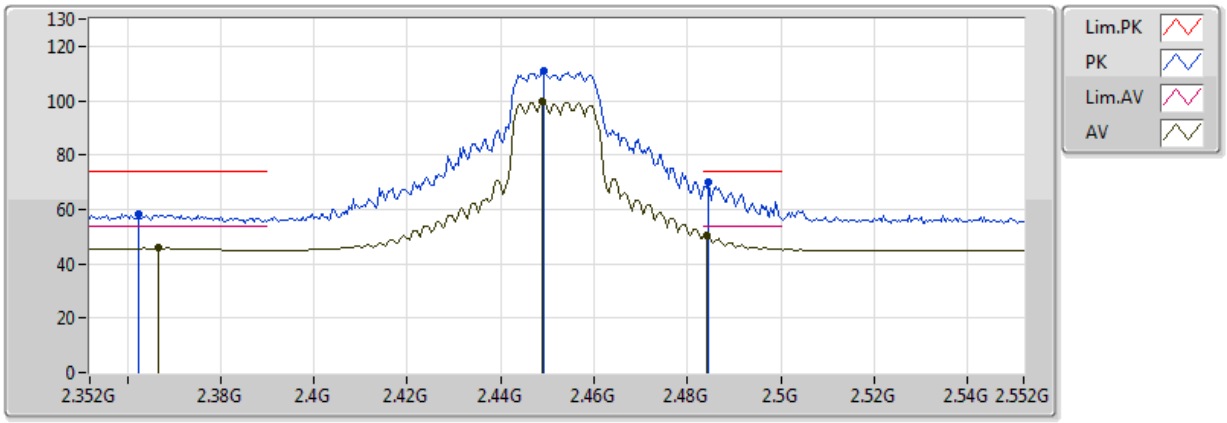


20171102
EUT Z_2TX
Setting 89
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3894G	46.12	54.00	-7.88	32.28	3	Horizontal	288	1.49
AV	2.4506G	103.89	Inf	-Inf	32.44	3	Horizontal	288	1.49
AV	2.483502G	50.89	54.00	-3.11	32.53	3	Horizontal	288	1.49
PK	2.3782G	58.52	74.00	-15.48	32.26	3	Horizontal	288	1.49
PK	2.4506G	115.14	Inf	-Inf	32.44	3	Horizontal	288	1.49
PK	2.4858G	70.55	74.00	-3.45	32.53	3	Horizontal	288	1.49

802.11n HT20_Nss1,(MCS0)_2TX

2452MHz_TX

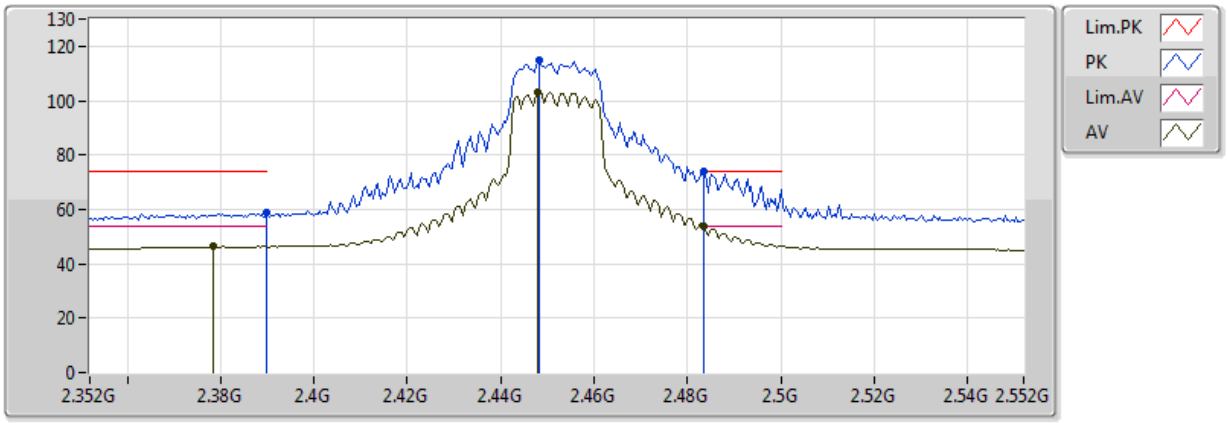


20171102
EUT Z_2TX
Setting 87
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3668G	45.71	54.00	-8.29	32.23	3	Vertical	42	2.91
AV	2.4488G	99.57	Inf	-Inf	32.44	3	Vertical	42	2.91
AV	2.484G	50.61	54.00	-3.39	32.53	3	Vertical	42	2.91
PK	2.3624G	58.26	74.00	-15.74	32.22	3	Vertical	42	2.91
PK	2.4492G	110.69	Inf	-Inf	32.44	3	Vertical	42	2.91
PK	2.4844G	70.20	74.00	-3.80	32.53	3	Vertical	42	2.91

802.11n HT20_Nss1,(MCS0)_2TX

2452MHz_TX

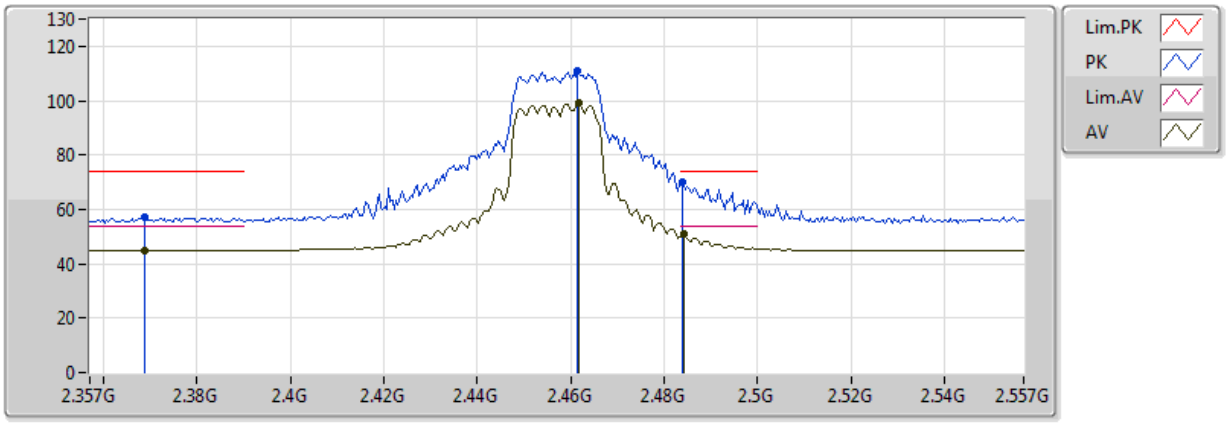


20171102
EUT Z_2TX
Setting 87
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3784G	46.33	54.00	-7.67	32.26	3	Horizontal	296	1.50
AV	2.448G	103.27	Inf	-Inf	32.43	3	Horizontal	296	1.50
AV	2.4836G	53.66	54.00	-0.34	32.53	3	Horizontal	296	1.50
PK	2.39G	58.67	74.00	-15.33	32.28	3	Horizontal	296	1.50
PK	2.4484G	114.68	Inf	-Inf	32.44	3	Horizontal	296	1.50
PK	2.4836G	73.77	74.00	-0.23	32.53	3	Horizontal	296	1.50

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

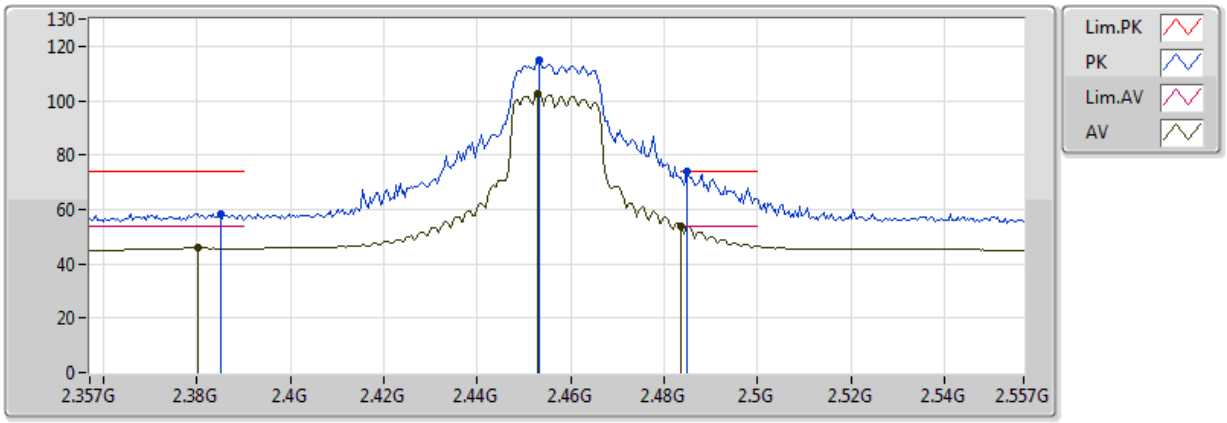


20171102
EUT Z_2TX
Setting 83
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3686G	44.94	54.00	-9.06	32.23	3	Vertical	36	2.28
AV	2.4618G	98.92	Inf	-Inf	32.47	3	Vertical	36	2.28
AV	2.4842G	50.99	54.00	-3.01	32.53	3	Vertical	36	2.28
PK	2.3686G	57.13	74.00	-16.87	32.23	3	Vertical	36	2.28
PK	2.4614G	110.70	Inf	-Inf	32.47	3	Vertical	36	2.28
PK	2.4838G	70.23	74.00	-3.77	32.53	3	Vertical	36	2.28

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

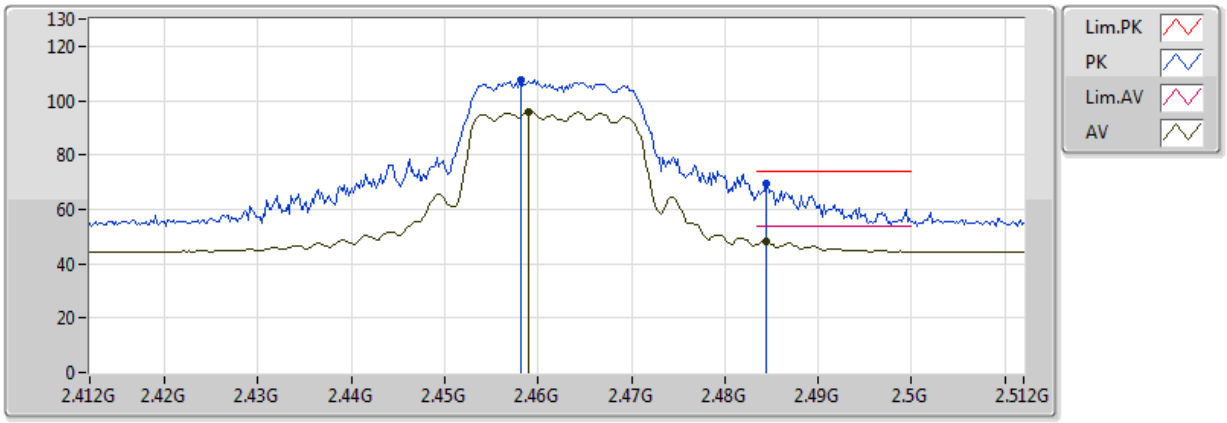


20171102
EUT Z_2TX
Setting 83
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3802G	45.82	54.00	-8.18	32.26	3	Horizontal	288	1.50
AV	2.453G	102.57	Inf	-Inf	32.45	3	Horizontal	288	1.50
AV	2.483502G	53.99	54.00	-0.01	32.53	3	Horizontal	288	1.50
PK	2.385G	58.46	74.00	-15.54	32.27	3	Horizontal	288	1.50
PK	2.4534G	114.60	Inf	-Inf	32.45	3	Horizontal	288	1.50
PK	2.485G	73.89	74.00	-0.11	32.53	3	Horizontal	288	1.50

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

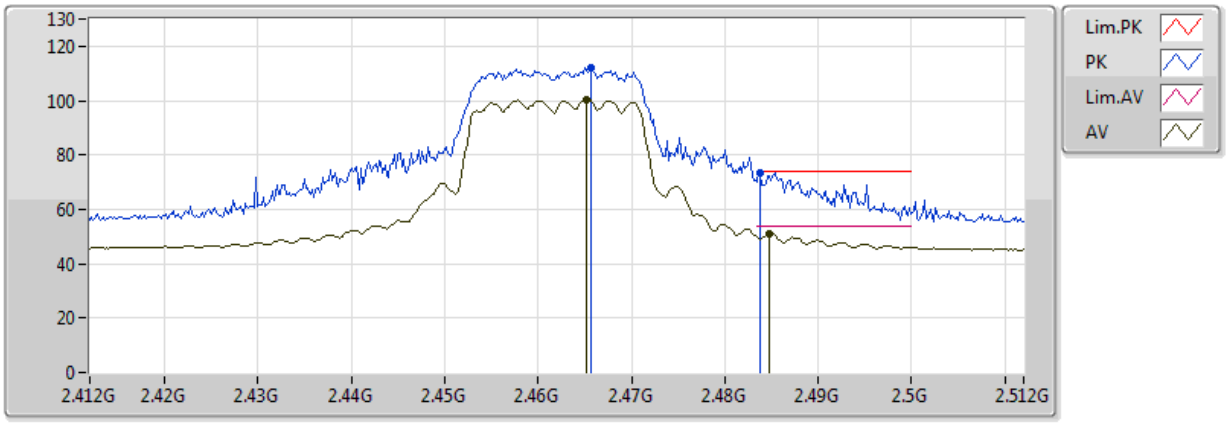


20171025
EUT Z_2TX
Setting 77
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.459G	95.87	Inf	-Inf	32.46	3	Vertical	62	1.26
AV	2.4844G	48.28	54.00	-5.72	32.53	3	Vertical	62	1.26
PK	2.4582G	107.85	Inf	-Inf	32.46	3	Vertical	62	1.26
PK	2.4844G	69.48	74.00	-4.52	32.53	3	Vertical	62	1.26

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

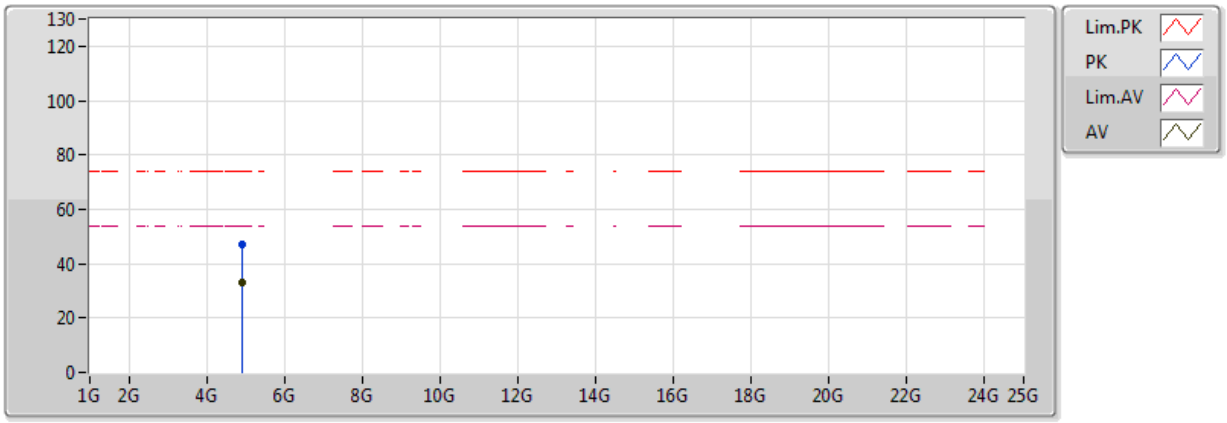


20171025
EUT Z_2TX
Setting 77
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.4652G	100.38	Inf	-Inf	32.48	3	Horizontal	209	1.13
AV	2.4848G	51.16	54.00	-2.84	32.53	3	Horizontal	209	1.13
PK	2.4656G	111.91	Inf	-Inf	32.48	3	Horizontal	209	1.13
PK	2.4838G	73.63	74.00	-0.37	32.53	3	Horizontal	209	1.13

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

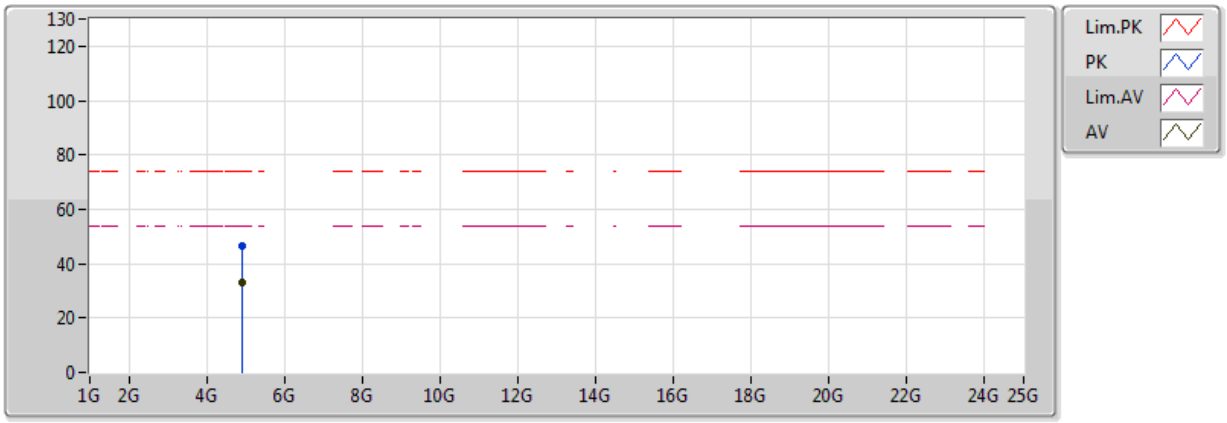


20171025
EUT Z_2TX
Setting 77
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.92328G	32.92	54.00	-21.08	5.44	3	Vertical	144	1.67
PK	4.924G	46.95	74.00	-27.05	5.45	3	Vertical	144	1.67

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

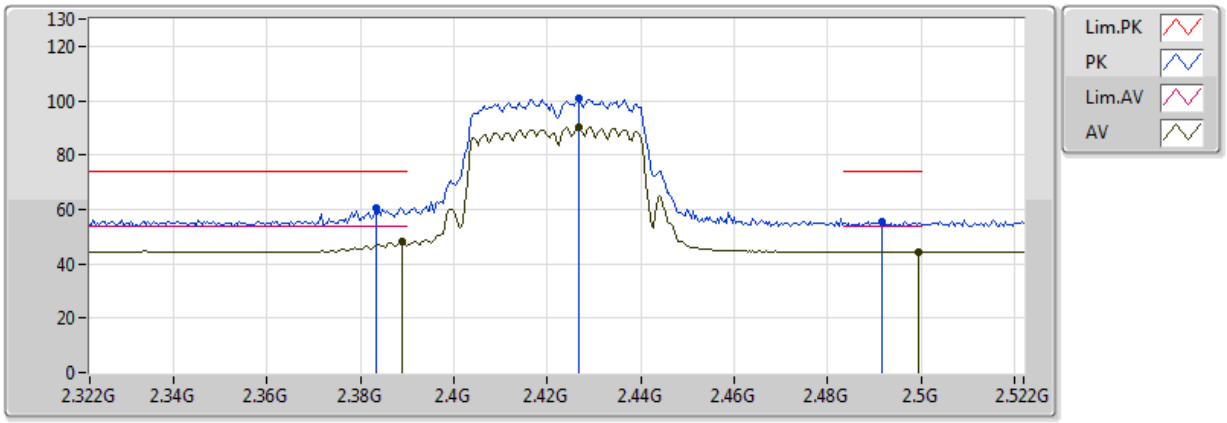


20171025
EUT Z_2TX
Setting 77
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.92396G	33.07	54.00	-20.93	5.45	3	Horizontal	331	1.43
PK	4.91724G	46.29	74.00	-27.71	5.42	3	Horizontal	331	1.43

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

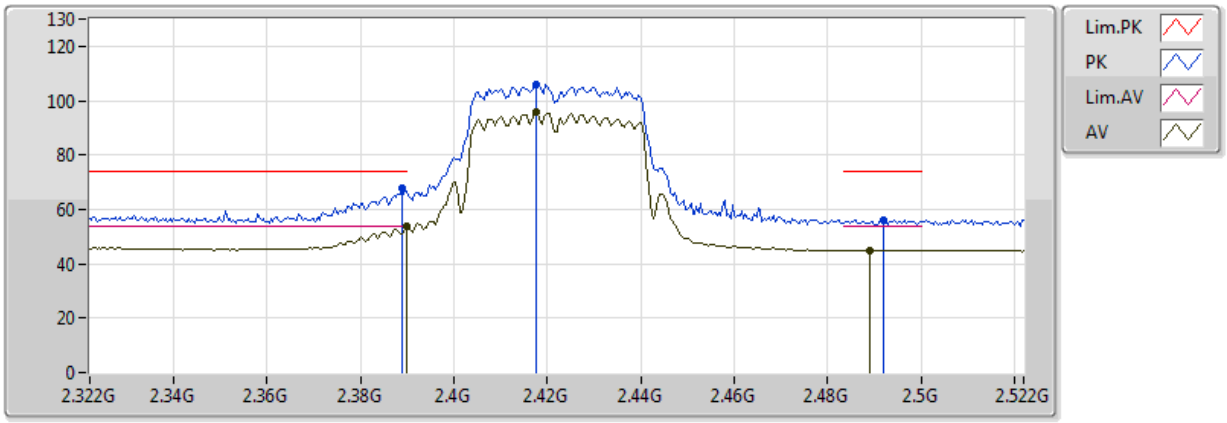


20171025
EUT Z_2TX
Setting 59
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3888G	47.99	54.00	-6.01	32.28	3	Vertical	44	2.95
AV	2.4268G	90.35	Inf	-Inf	32.38	3	Vertical	44	2.95
AV	2.4996G	44.45	54.00	-9.55	32.57	3	Vertical	44	2.95
PK	2.3832G	60.63	74.00	-13.37	32.27	3	Vertical	44	2.95
PK	2.4268G	100.84	Inf	-Inf	32.38	3	Vertical	44	2.95
PK	2.4916G	55.46	74.00	-18.54	32.55	3	Vertical	44	2.95

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX



20171025
EUT Z_2TX
Setting 59
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	53.61	54.00	-0.39	32.28	3	Horizontal	72	1.02
AV	2.4176G	95.65	Inf	-Inf	32.36	3	Horizontal	72	1.02
AV	2.4892G	45.02	54.00	-8.98	32.54	3	Horizontal	72	1.02
PK	2.3888G	68.05	74.00	-5.95	32.28	3	Horizontal	72	1.02
PK	2.4176G	106.08	Inf	-Inf	32.36	3	Horizontal	72	1.02
PK	2.492G	56.24	74.00	-17.76	32.55	3	Horizontal	72	1.02

802.11n HT40_Nss1,(MCS0)_2TX

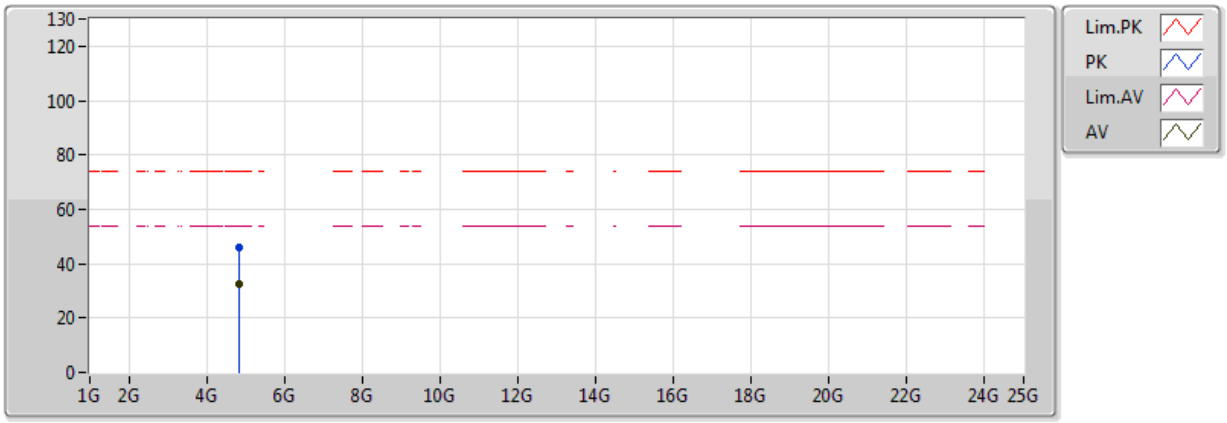
2422MHz_TX

20171025
EUT Z_2TX
Setting 59
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.8534G	32.76	54.00	-21.24	5.13	3	Vertical	110	1.09
PK	4.84724G	45.71	74.00	-28.29	5.11	3	Vertical	110	1.09

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

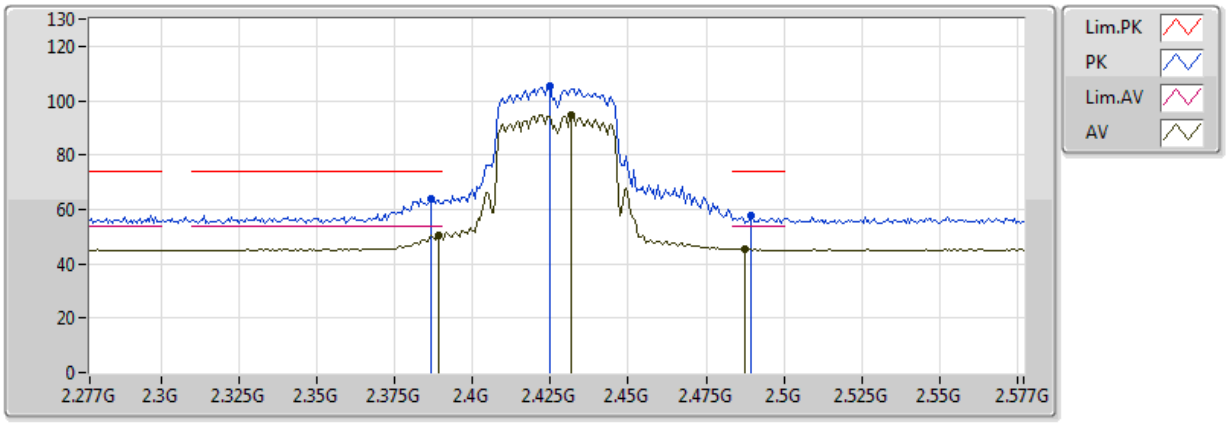


20171025
EUT Z_2TX
Setting 59
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.84796G	32.61	54.00	-21.39	5.11	3	Horizontal	268	2.44
PK	4.84932G	45.84	74.00	-28.16	5.12	3	Horizontal	268	2.44

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

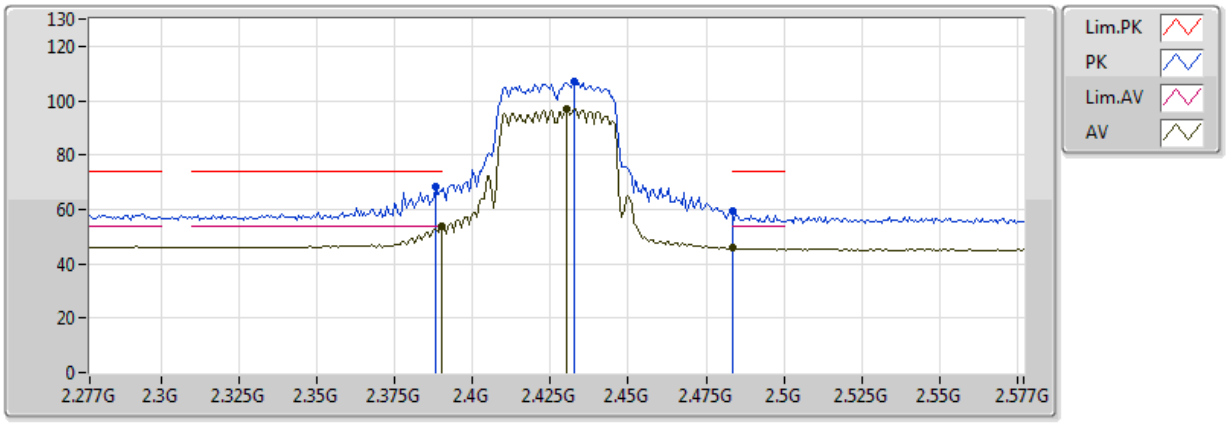


20171102
EUT Z_2TX
Setting 68
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3892G	50.56	54.00	-3.44	32.28	3	Vertical	47	2.94
AV	2.4318G	94.69	Inf	-Inf	32.39	3	Vertical	47	2.94
AV	2.4876G	45.31	54.00	-8.69	32.54	3	Vertical	47	2.94
PK	2.3868G	63.94	74.00	-10.06	32.28	3	Vertical	47	2.94
PK	2.4246G	105.10	Inf	-Inf	32.37	3	Vertical	47	2.94
PK	2.4894G	57.92	74.00	-16.08	32.54	3	Vertical	47	2.94

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

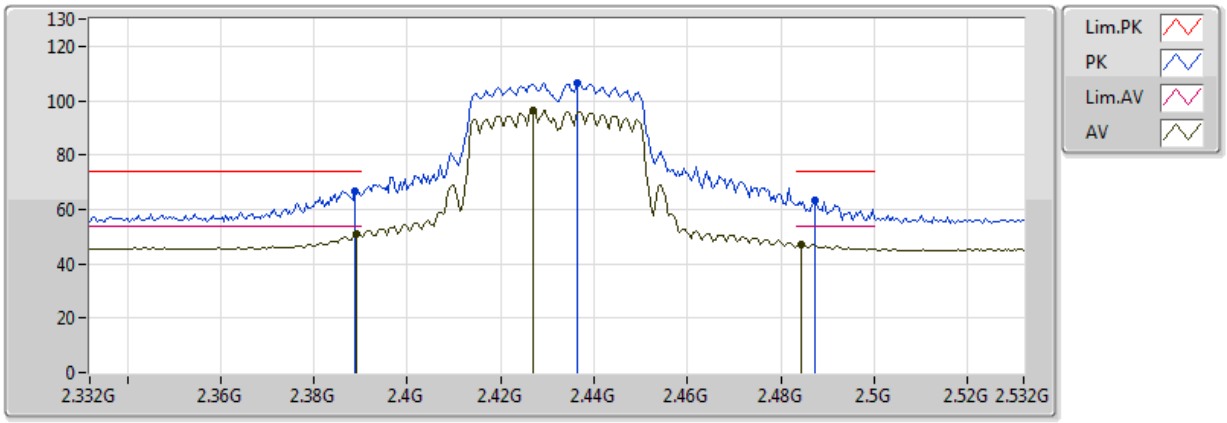


20171102
EUT Z_2TX
Setting 68
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	53.65	54.00	-0.35	32.28	3	Horizontal	321	1.01
AV	2.43G	97.17	Inf	-Inf	32.39	3	Horizontal	321	1.01
AV	2.483502G	45.72	54.00	-8.28	32.53	3	Horizontal	321	1.01
PK	2.388G	68.62	74.00	-5.38	32.28	3	Horizontal	321	1.01
PK	2.4324G	107.15	Inf	-Inf	32.39	3	Horizontal	321	1.01
PK	2.483502G	59.49	74.00	-14.51	32.53	3	Horizontal	321	1.01

802.11n HT40_Nss1,(MCS0)_2TX

2432MHz_TX

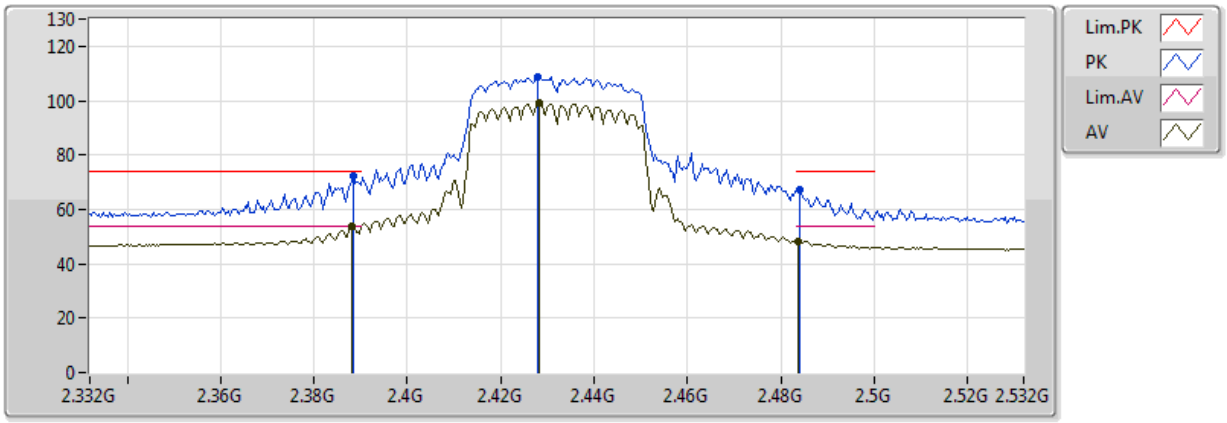


20171102
EUT Z_2TX
Setting 75
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3892G	51.09	54.00	-2.91	32.28	3	Vertical	46	2.97
AV	2.4268G	96.25	Inf	-Inf	32.38	3	Vertical	46	2.97
AV	2.4844G	46.91	54.00	-7.09	32.53	3	Vertical	46	2.97
PK	2.3888G	66.96	74.00	-7.04	32.28	3	Vertical	46	2.97
PK	2.4364G	106.68	Inf	-Inf	32.40	3	Vertical	46	2.97
PK	2.4872G	63.04	74.00	-10.96	32.54	3	Vertical	46	2.97

802.11n HT40_Nss1,(MCS0)_2TX

2432MHz_TX

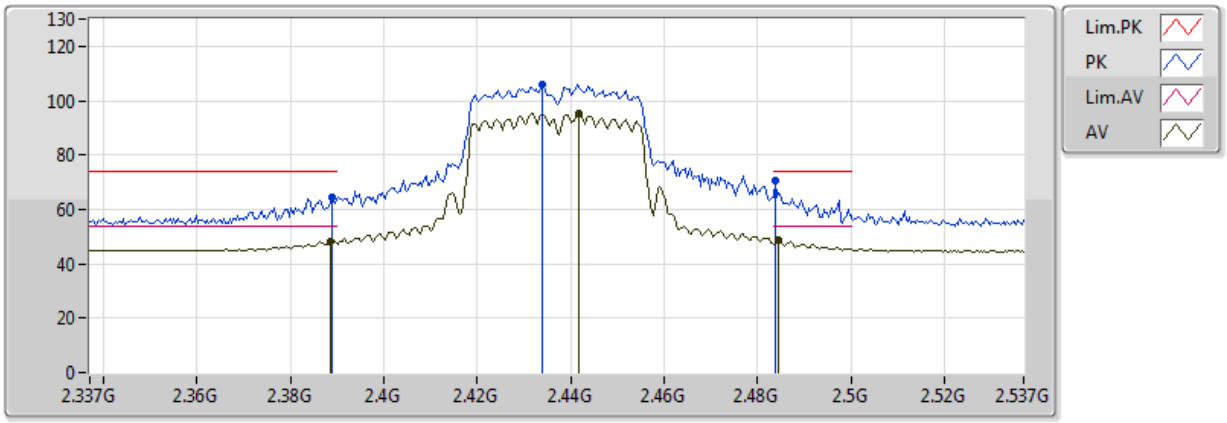


20171102
EUT Z_2TX
Setting 75
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.388G	53.81	54.00	-0.19	32.28	3	Horizontal	327	1.01
AV	2.4284G	99.02	Inf	-Inf	32.38	3	Horizontal	327	1.01
AV	2.4836G	48.32	54.00	-5.68	32.53	3	Horizontal	327	1.01
PK	2.3884G	72.06	74.00	-1.94	32.28	3	Horizontal	327	1.01
PK	2.428G	108.91	Inf	-Inf	32.38	3	Horizontal	327	1.01
PK	2.484G	67.12	74.00	-6.88	32.53	3	Horizontal	327	1.01

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

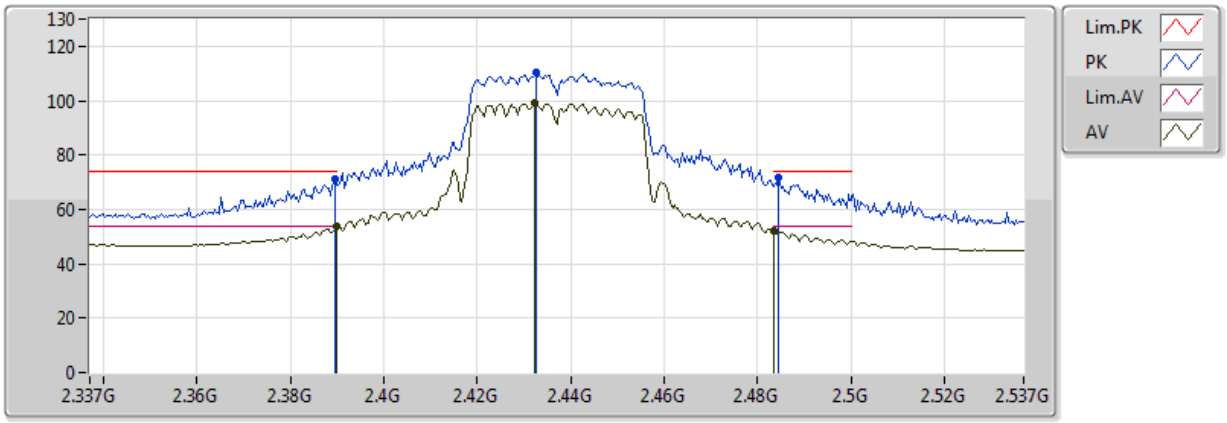


20171025
EUT Z_2TX
Setting 77
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3886G	48.40	54.00	-5.60	32.28	3	Vertical	353	1.46
AV	2.4418G	95.36	Inf	-Inf	32.42	3	Vertical	353	1.46
AV	2.4846G	48.82	54.00	-5.18	32.53	3	Vertical	353	1.46
PK	2.389G	64.17	74.00	-9.83	32.28	3	Vertical	353	1.46
PK	2.4338G	105.77	Inf	-Inf	32.40	3	Vertical	353	1.46
PK	2.4838G	70.35	74.00	-3.65	32.53	3	Vertical	353	1.46

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

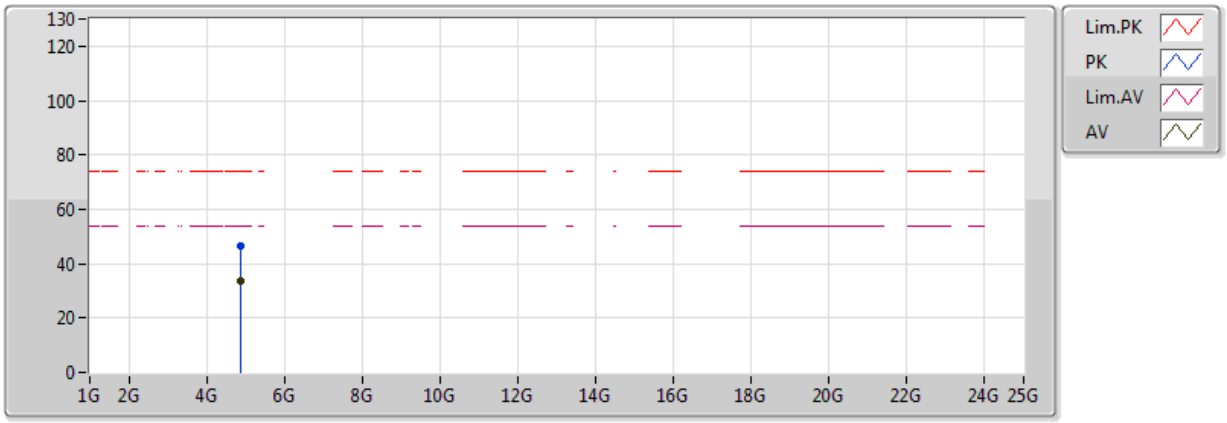


20171025
EUT Z_2TX
Setting 77
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	53.72	54.00	-0.28	32.28	3	Horizontal	330	2.39
AV	2.4322G	99.24	Inf	-Inf	32.39	3	Horizontal	330	2.39
AV	2.483502G	52.30	54.00	-1.70	32.53	3	Horizontal	330	2.39
PK	2.3894G	71.07	74.00	-2.93	32.28	3	Horizontal	330	2.39
PK	2.4326G	110.39	Inf	-Inf	32.39	3	Horizontal	330	2.39
PK	2.4846G	71.47	74.00	-2.53	32.53	3	Horizontal	330	2.39

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

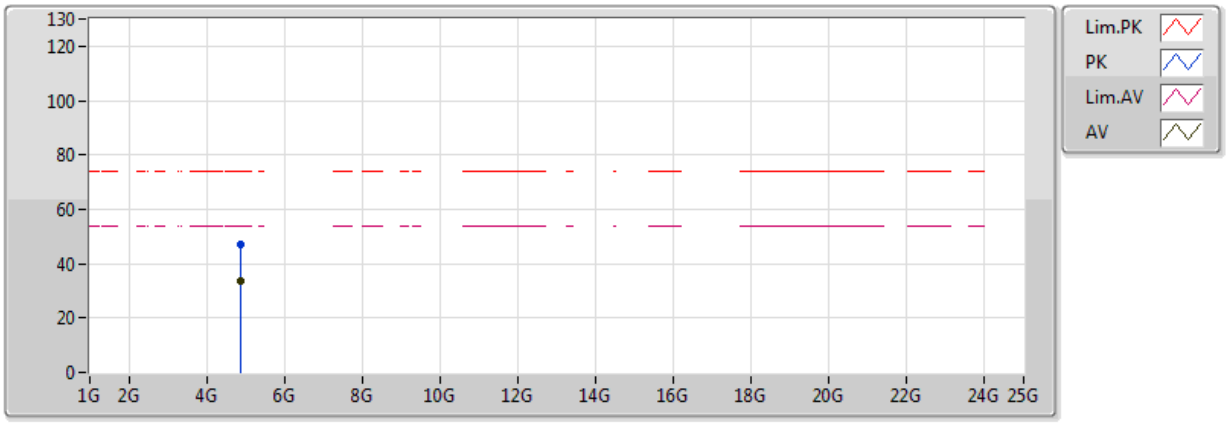


20171025
EUT Z_2TX
Setting 77
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.87032G	33.39	54.00	-20.61	5.21	3	Vertical	75	1.58
PK	4.86492G	46.45	74.00	-27.55	5.19	3	Vertical	75	1.58

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

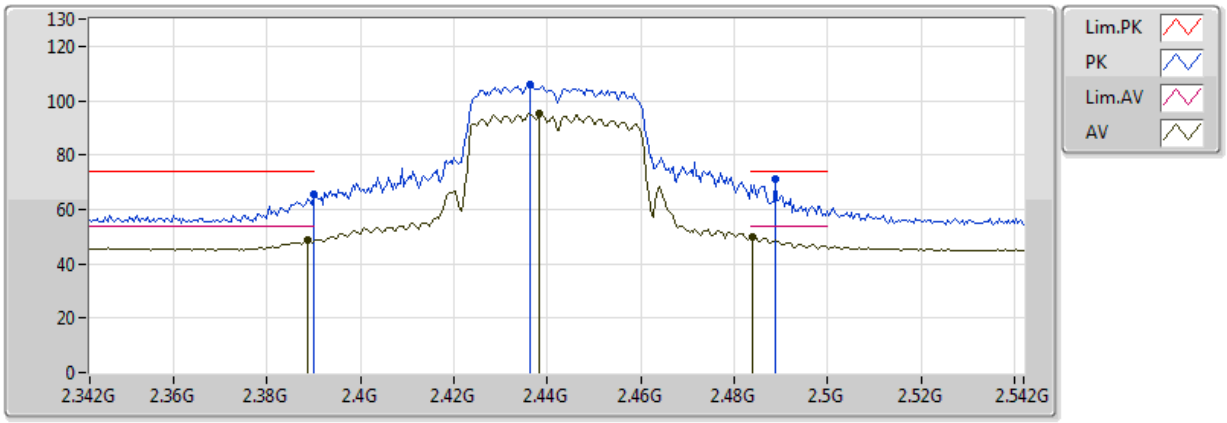


20171025
EUT Z_2TX
Setting 77
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.86892G	33.37	54.00	-20.63	5.20	3	Horizontal	179	1.71
PK	4.87812G	47.02	74.00	-26.98	5.24	3	Horizontal	179	1.71

802.11n HT40_Nss1,(MCS0)_2TX

2442MHz_TX

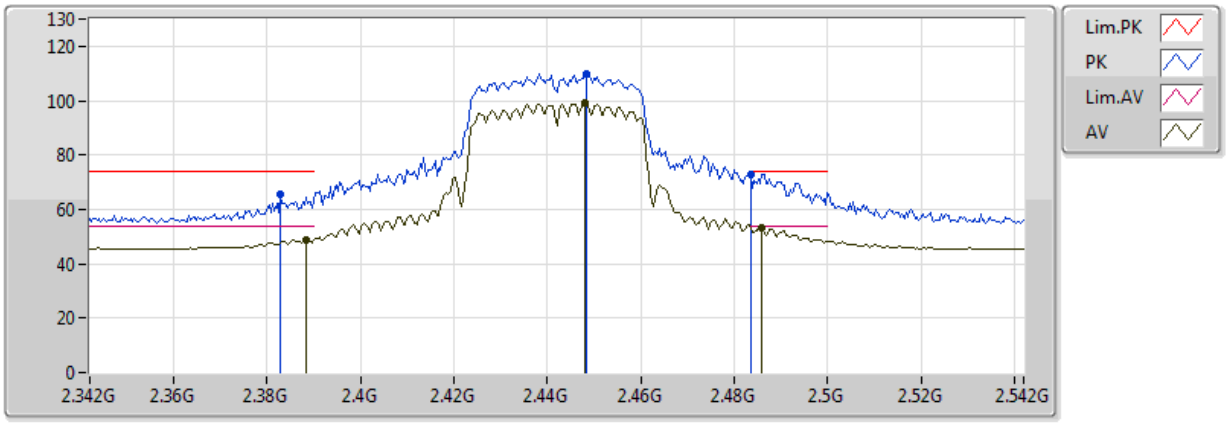


20171102
EUT Z_2TX
Setting 77
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3888G	48.51	54.00	-5.49	32.28	3	Vertical	31	2.33
AV	2.4384G	95.12	Inf	-Inf	32.41	3	Vertical	31	2.33
AV	2.484G	50.11	54.00	-3.89	32.53	3	Vertical	31	2.33
PK	2.39G	65.31	74.00	-8.69	32.28	3	Vertical	31	2.33
PK	2.4364G	105.68	Inf	-Inf	32.40	3	Vertical	31	2.33
PK	2.4888G	71.22	74.00	-2.78	32.54	3	Vertical	31	2.33

802.11n HT40_Nss1,(MCS0)_2TX

2442MHz_TX

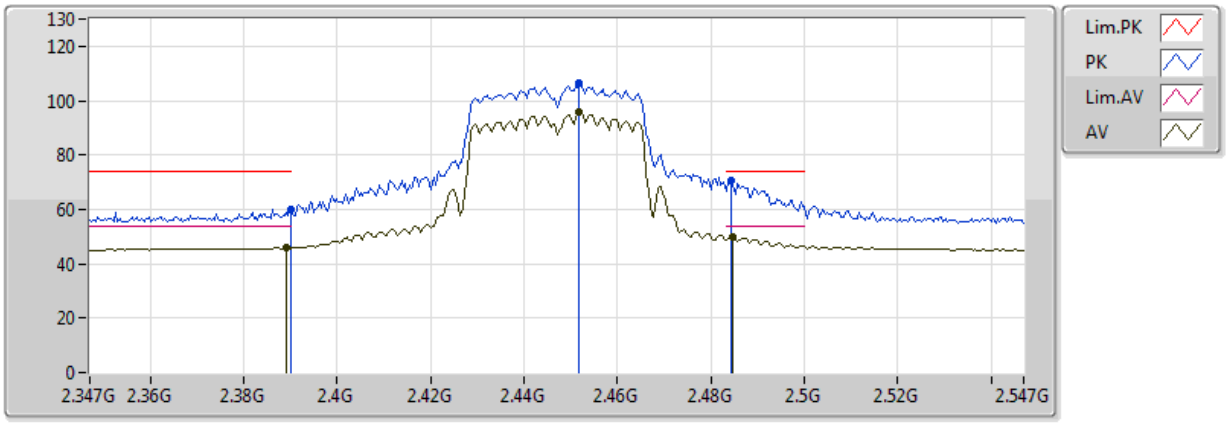


20171102
EUT Z_2TX
Setting 77
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3884G	49.01	54.00	-4.99	32.28	3	Horizontal	291	1.49
AV	2.448G	99.00	Inf	-Inf	32.43	3	Horizontal	291	1.49
AV	2.486G	53.49	54.00	-0.51	32.53	3	Horizontal	291	1.49
PK	2.3828G	65.71	74.00	-8.29	32.27	3	Horizontal	291	1.49
PK	2.4484G	109.90	Inf	-Inf	32.44	3	Horizontal	291	1.49
PK	2.4836G	73.12	74.00	-0.88	32.53	3	Horizontal	291	1.49

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

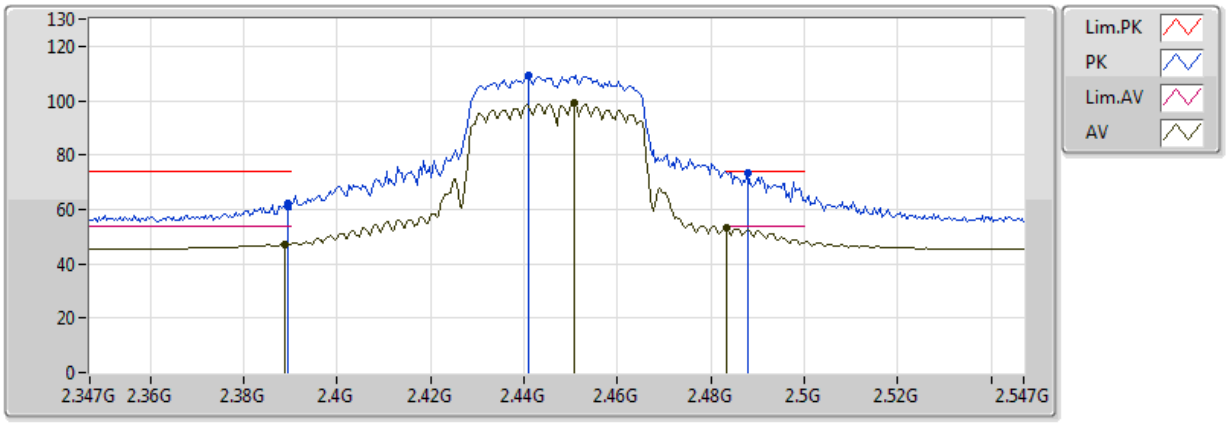


20171102
EUT Z_2TX
Setting 75
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389G	45.95	54.00	-8.05	32.28	3	Vertical	40	1.89
AV	2.4518G	95.71	Inf	-Inf	32.44	3	Vertical	40	1.89
AV	2.4846G	49.93	54.00	-4.07	32.53	3	Vertical	40	1.89
PK	2.389998G	60.01	74.00	-13.99	32.28	3	Vertical	40	1.89
PK	2.4518G	106.41	Inf	-Inf	32.44	3	Vertical	40	1.89
PK	2.4842G	70.87	74.00	-3.13	32.53	3	Vertical	40	1.89

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

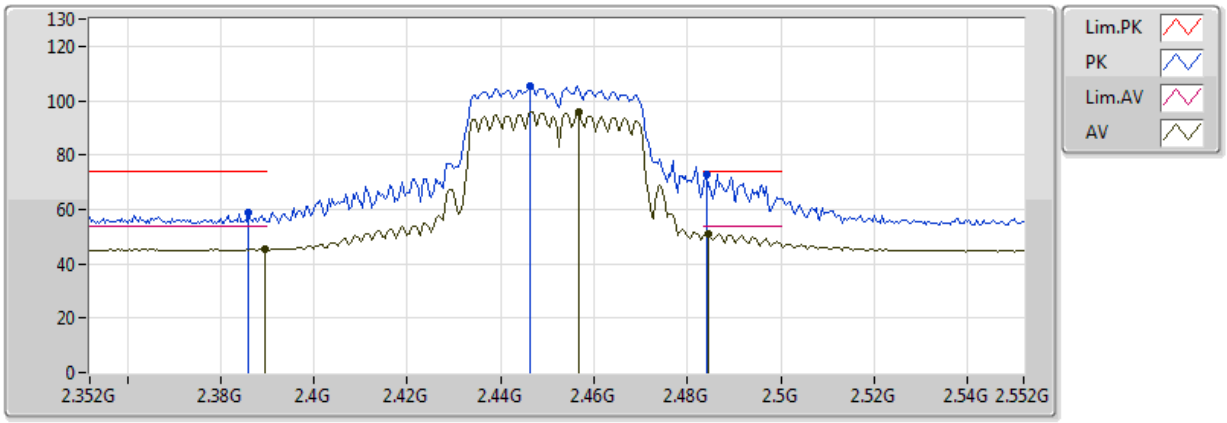


20171102
EUT Z_2TX
Setting 75
03-M-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3886G	47.09	54.00	-6.91	32.28	3	Horizontal	291	1.50
AV	2.4506G	99.01	Inf	-Inf	32.44	3	Horizontal	291	1.50
AV	2.483502G	53.12	54.00	-0.88	32.53	3	Horizontal	291	1.50
PK	2.3894G	62.41	74.00	-11.59	32.28	3	Horizontal	291	1.50
PK	2.441G	109.14	Inf	-Inf	32.42	3	Horizontal	291	1.50
PK	2.4878G	73.36	74.00	-0.64	32.54	3	Horizontal	291	1.50

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

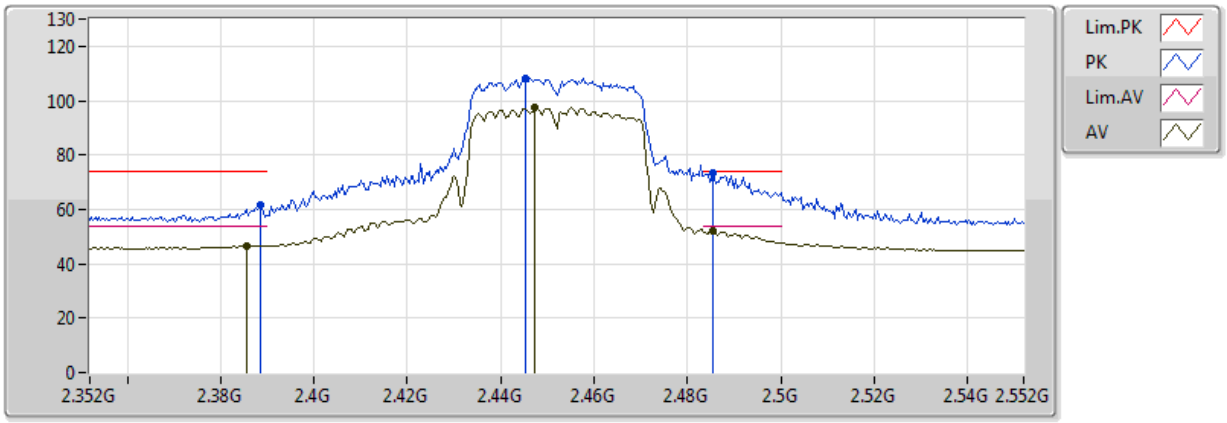


20171025
EUT Z_2TX
Setting 73
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3896G	45.43	54.00	-8.57	32.28	3	Vertical	108	2.95
AV	2.4568G	95.61	Inf	-Inf	32.46	3	Vertical	108	2.95
AV	2.4844G	50.86	54.00	-3.14	32.53	3	Vertical	108	2.95
PK	2.386G	59.08	74.00	-14.92	32.27	3	Vertical	108	2.95
PK	2.4464G	105.46	Inf	-Inf	32.43	3	Vertical	108	2.95
PK	2.484G	72.76	74.00	-1.24	32.53	3	Vertical	108	2.95

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

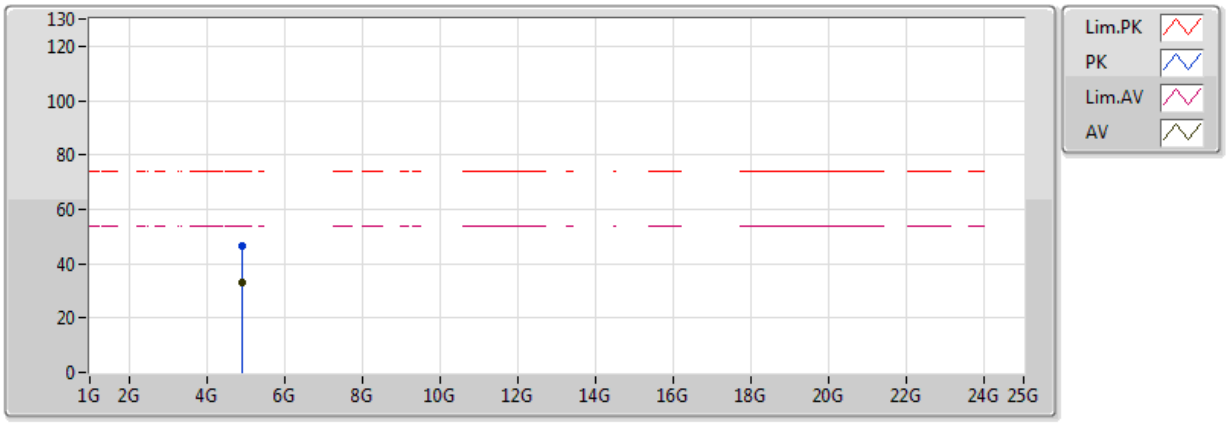


20171025
EUT Z_2TX
Setting 73
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3856G	46.66	54.00	-7.34	32.27	3	Horizontal	77	1.13
AV	2.4472G	97.43	Inf	-Inf	32.43	3	Horizontal	77	1.13
AV	2.4856G	52.18	54.00	-1.82	32.53	3	Horizontal	77	1.13
PK	2.3884G	61.84	74.00	-12.16	32.28	3	Horizontal	77	1.13
PK	2.4452G	108.08	Inf	-Inf	32.43	3	Horizontal	77	1.13
PK	2.4856G	73.52	74.00	-0.48	32.53	3	Horizontal	77	1.13

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

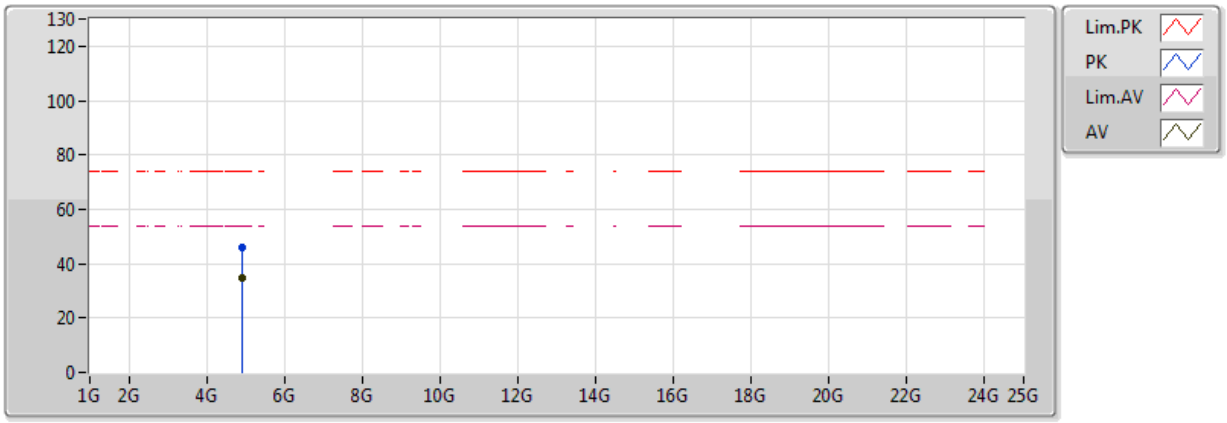


20171025
EUT Z_2TX
Setting 73
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.9134G	33.06	54.00	-20.94	5.40	3	Vertical	30	1.25
PK	4.90304G	46.46	74.00	-27.54	5.35	3	Vertical	30	1.25

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX



20171025
EUT Z_2TX
Setting 73
03-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.89596G	34.85	54.00	-19.15	5.32	3	Horizontal	232	1.31
PK	4.89624G	46.20	74.00	-27.80	5.32	3	Horizontal	232	1.31