

FCC Test Report

Equipment : Dual-Band 802.11ac 4x4 MIMO PCI Express Mini Card Wireless Network Adapter

Brand Name : LITE-ON

Model No. : WM6687

FCC ID : PPQ-WM6687

Standard : 47 CFR FCC Part 15.247

Operating Band : 2400 MHz – 2483.5 MHz

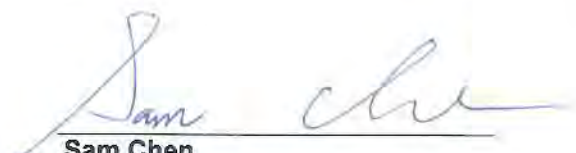
Function : ☒ Point-to-multipoint; ☐ Point-to-point

Applicant : Lite-On Technology Corp.
Bldg. C, 90, Chien 1 Road, Chung Ho, New Taipei City
23585, Taiwan, R.O.C

Manufacturer : Lite-On Network Communication (Dongguan) Limited
30#Keji Rd., Yin Hu Industrial Area, Qingxi
Town, DongGuan City, Guangdong, China

The product sample received on May 02, 2017 and completely tested on Jun. 15, 2017. 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.



Sam Chen
SPORTON INTERNATIONAL INC.



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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



SPORTON INTERNATIONAL INC.
TEL : 886-3-3273456
FAX : 886-3-3270973
FCC ID: PPQ-WM6687

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), ac (VHT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), ac (VHT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	4TX
2.4-2.4835GHz	802.11g	20	4TX
2.4-2.4835GHz	802.11n HT20	20	4TX
2.4-2.4835GHz	802.11ac VHT20	20	4TX
2.4-2.4835GHz	802.11ac VHT20-BF	20	4TX
2.4-2.4835GHz	802.11n HT40	40	4TX
2.4-2.4835GHz	802.11ac VHT40	40	4TX
2.4-2.4835GHz	802.11ac VHT40-BF	40	4TX

Note:

- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 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

Set	Brand	Model Name (P/N)	Antenna Type	Connector	Gain (dBi)	Remark
1	PSA	RFDPA171300SBLB802	Dipole Antenna	Reversed-SMA	Note 1	-
2	ethertronics	M830520	Ceramic Antenna	N/A	Note 1	Connect with Black Cable or Grey Cable

Note 1:

Set	Gain (dBi)		Cable loss (dB)		True Gain (dBi)		Remark
	2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz	
1	4.03	5.4	0.5	0.5	3.53	4.9	-
2	1.1	3.2	1.2	2.2	-0.1	1	Black Cable (Long)
			0.5	0.9	0.6	2.3	Gray Cable (Short)

Note 2:

The EUT has two sets of antennas and there are four antennas for each set.

The Set 2 antennas can connect with black and gray cable. After evaluating, gray cable was select as the representative cable for the test and its data was recorded in this report.

<For 2.4GHz Function>
For IEEE 802.11b/g/n/ac mode (4TX, 4RX):

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

<For 5GHz Function>
For IEEE 802.11a/n/ac mode (4TX, 4RX):

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

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)
802.11b	0.998	0.009
802.11g	0.953	0.209
802.11ac VHT20	0.958	0.186
802.11ac VHT20-BF	0.987	0.057
802.11ac VHT40	0.974	0.114
802.11ac VHT40-BF	0.973	0.119

1.1.4 EUT Operational Condition

EUT Power Type	From Host system		
Beamforming Function	☒	With beamforming	☐ Without beamforming

Note: The product has beamforming function for 802.11n in 5GHz and 802.11ac in 2.4GHz/5GHz.

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 644545 D01 v01r02
- ♦ 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	Lucke Hsieh & Stim Song	22°C / 54%	May 04, 2017~ Jun. 12, 2017
Radiated	03CH01-CB	Mason Chen & Paul Chen & Zero Chen & Welson Chen & Eason Chen	22°C / 54%	May 03, 2017~ Jun. 15, 2017
AC Conduction	CO01-CB	Kane Liu	23°C / 56%	Jun. 14, 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

For Mode 1 (Antenna Set 1):

Mode	Power Setting
802.11b_(1Mbps)_4TX	-
2412MHz	71
2437MHz	85
2462MHz	75
802.11g_(6Mbps)_4TX	-
2412MHz	56
2437MHz	90
2462MHz	56
802.11ac VHT20_Nss1,(MCS0)_4TX	-
2412MHz	50
2437MHz	85
2462MHz	56
802.11ac VHT40_Nss1,(MCS0)_4TX	-
2422MHz	41
2437MHz	58
2452MHz	60
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
2412MHz	60
2437MHz	85
2462MHz	60
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
2422MHz	48
2437MHz	56
2452MHz	55

For Mode 2 (Antenna Set 2 with Gray Cable):

Mode	Power Setting
802.11b_(1Mbps)_4TX	-
2412MHz	83
2437MHz	83
2462MHz	86
802.11g_(6Mbps)_4TX	-
2412MHz	77
2437MHz	89
2462MHz	70
802.11ac VHT20_Nss1,(MCS0)_4TX	-
2412MHz	65
2437MHz	93
2462MHz	68
802.11ac VHT40_Nss1,(MCS0)_4TX	-
2422MHz	64
2437MHz	70
2452MHz	68
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
2412MHz	72
2437MHz	85
2462MHz	76
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
2422MHz	66
2437MHz	70
2452MHz	67

Note1:

VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.

Note2:

There are two functions of EUT, one is beamforming function, and the other is non-beamforming function for 802.11n in 5GHz band / 802.11ac in 2.4GHz band and 5GHz band. All test results were recorded in the report

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT + Antenna Set 1
2	EUT + Antenna Set 2 with Gray Cable
For operating mode 2 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
Operating Mode	CTX
1	EUT + Antenna Set 1
2	EUT + Antenna Set 2 with Gray Cable

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT at X-axis + Antenna Set 1
2	EUT at Y-axis + Antenna Set 1
3	EUT at Z-axis + Antenna Set 1
4	EUT at X-axis + Antenna Set 2 with Gray Cable
5	EUT at Y-axis + Antenna Set 2 with Gray Cable
6	EUT at Z-axis + Antenna Set 2 with Gray Cable
For operating mode 6 is the worst case and it was record in this test report.	

Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at X axis. So the measurement will follow this same test configuration for Antenna Set 1. The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Z axis. So the measurement will follow this same test configuration for Antenna Set 2.	
1	EUT at X-axis + Antenna Set 1
2	EUT at Z-axis + Antenna Set 2 with Gray Cable

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	DoC
2	AP Router	Planex	GW-AP54SGX	KA220030603014-1
3	Fixture	BCM	BCM58535EAP	N/A

For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	WLAN AP	D-LINK	DIR860L	KA21R860LA1
3	Fixture	BCM	BCM58535EAP	N/A

For Test Site No: 03CH01-CB (above 1GHz)
For Non-Beamforming Mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	Fixture	BCM	BCM58535EAP	N/A

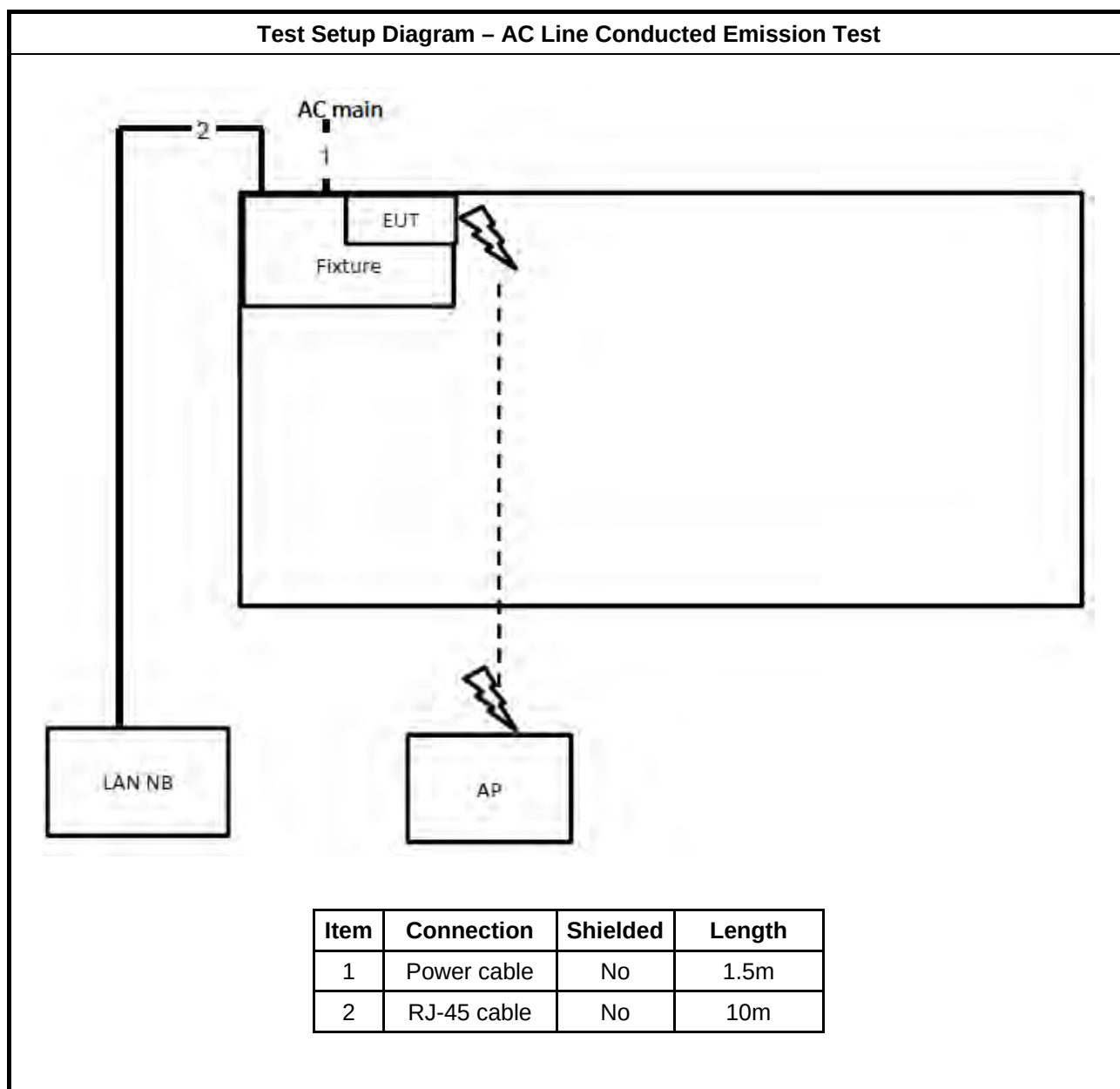
For Beamforming Mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	DoC
2	RX Device (Dual-Band 802.11ac 4x4 MIMO PCI Express Mini Card Wireless Network Adapter)	LITE-ON	WM6687	PPQ-WM6687
3	Fixture	BCM	BCM58535EAP	N/A

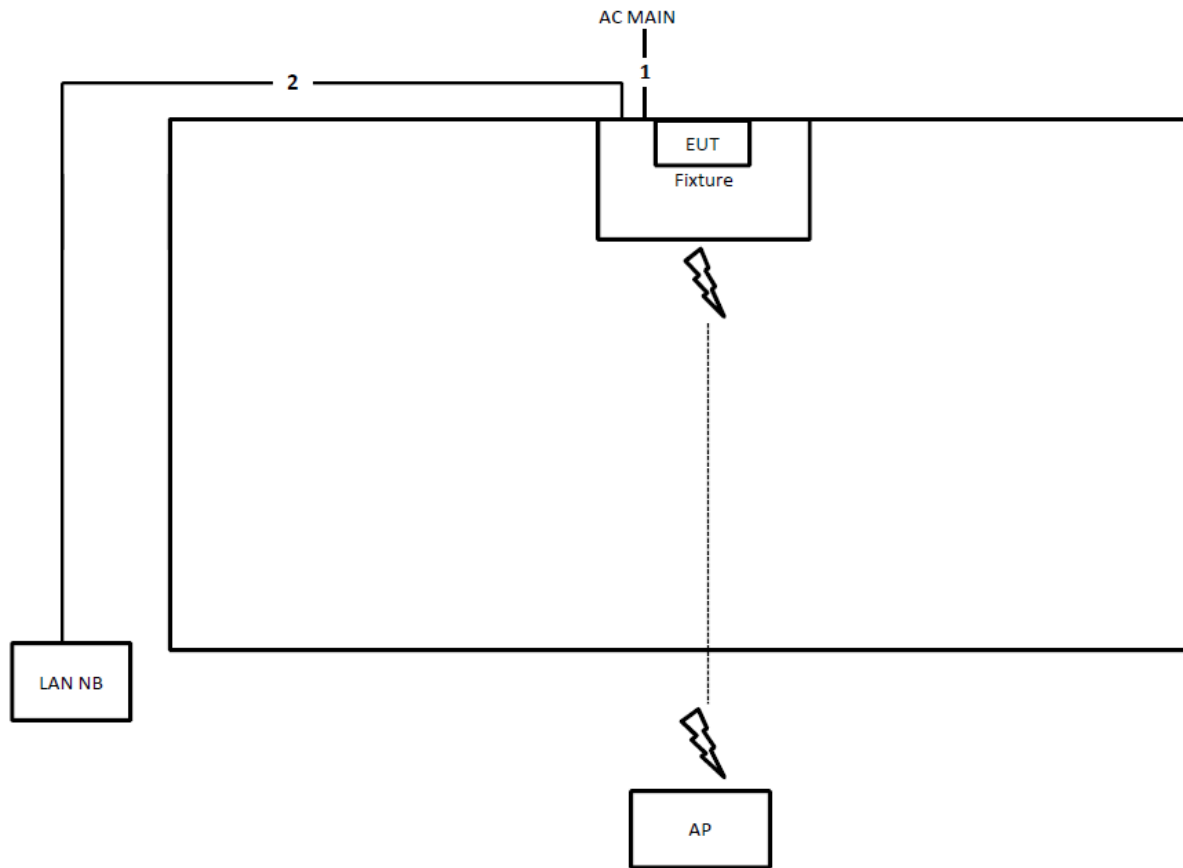
For Test Site No: TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	Fixture	BCM	BCM58535EAP	N/A

2.6 Test Setup Diagram



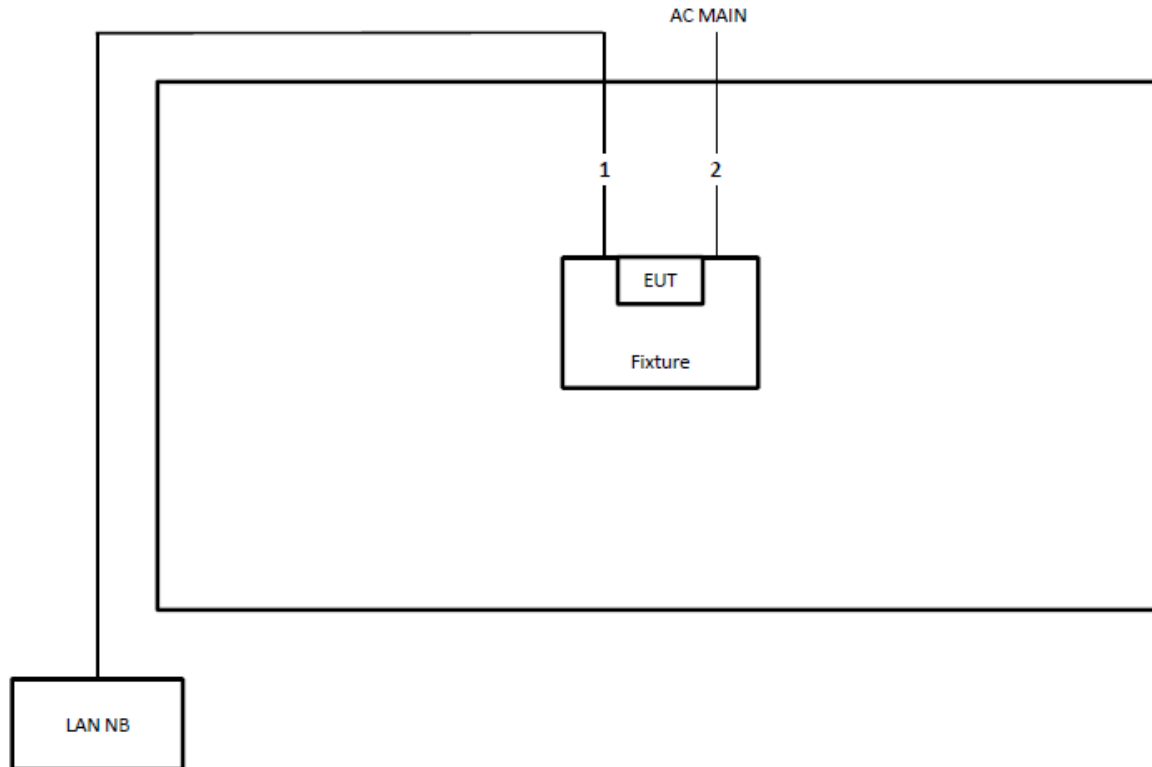
Test Setup Diagram - Radiated Test < 1GHz



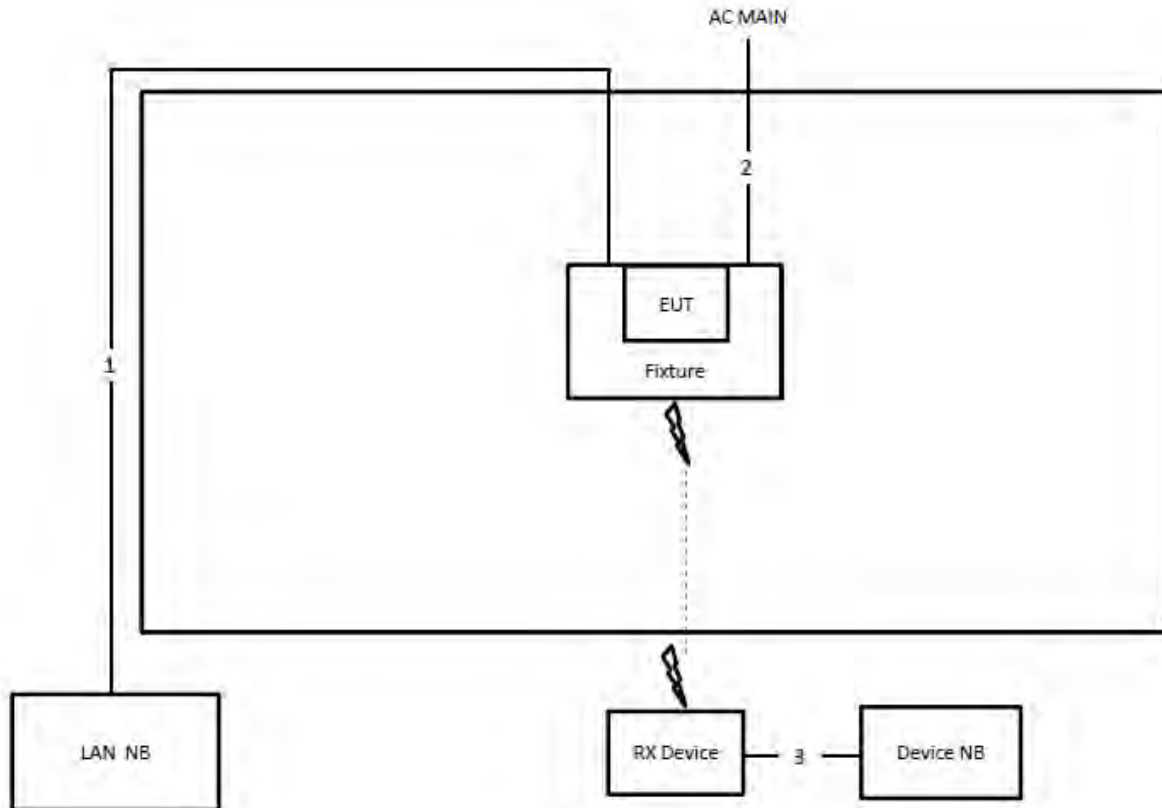
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m

For Non-Beamforming Mode:

Test Setup Diagram - Radiated Test > 1GHz



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

For Beamforming Mode:
Test Setup Diagram - Radiated Test > 1GHz


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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

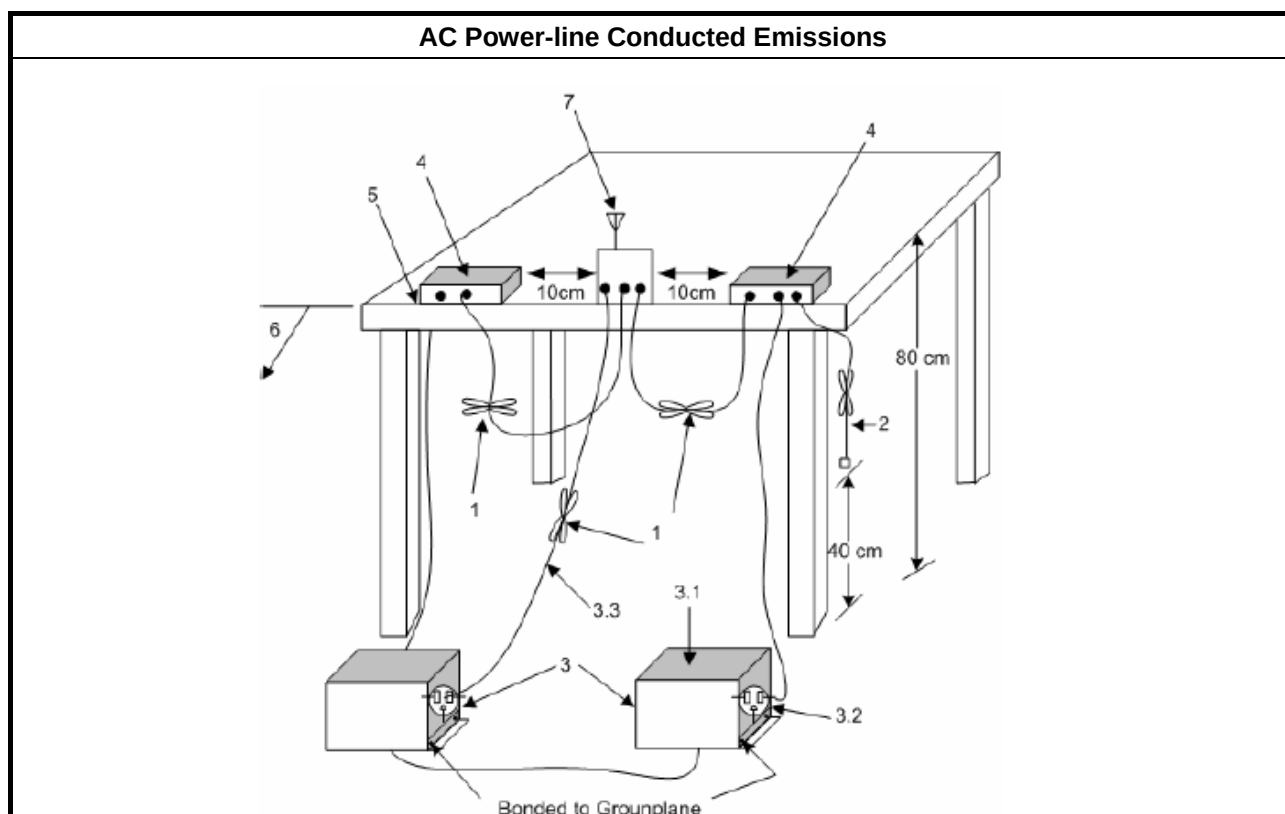
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup





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 $\geq$ 500 kHz.

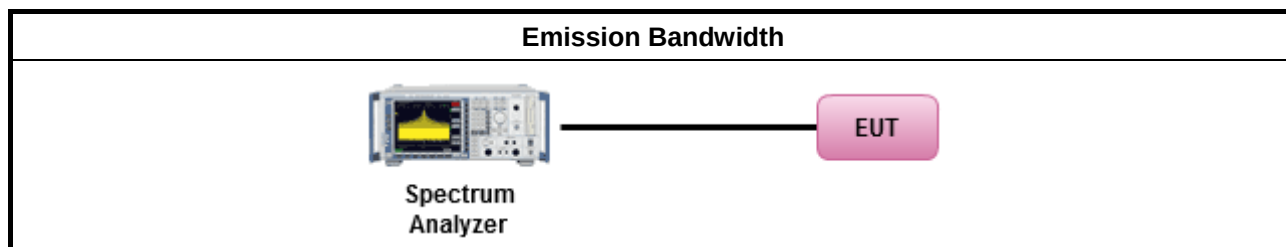
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as FCC KDB 558074, clause 8.1 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



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 $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ 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.	

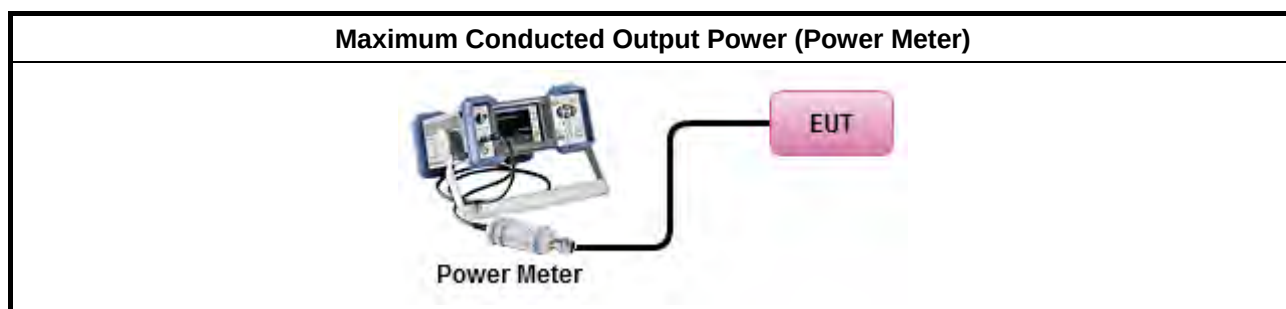
3.3.2 Measuring Instruments

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: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

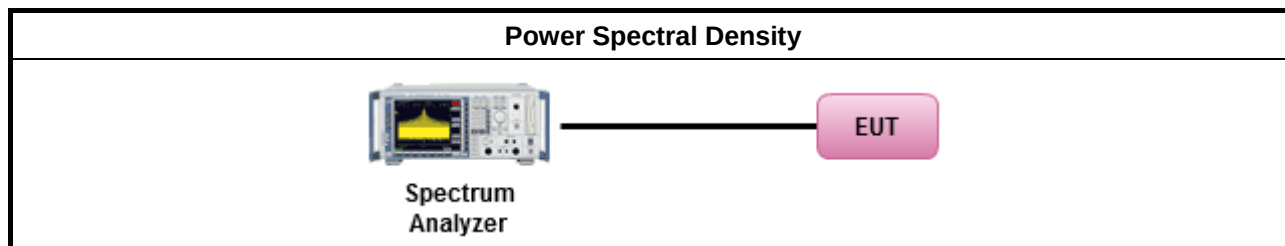
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒ Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak). [duty cycle $\geq 98\%$ 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



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.	

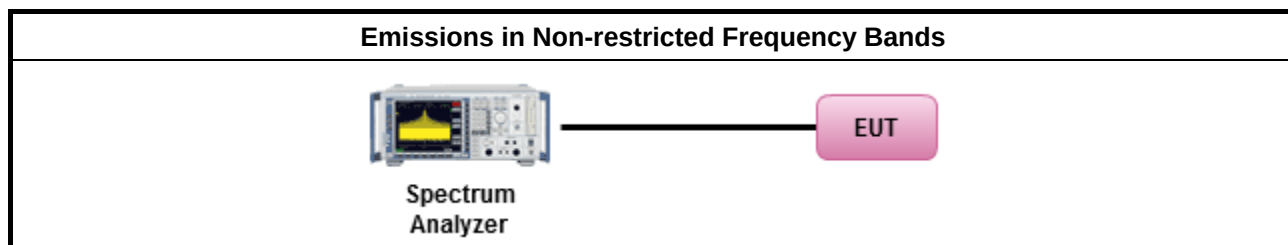
3.5.2 Measuring Instruments

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



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.

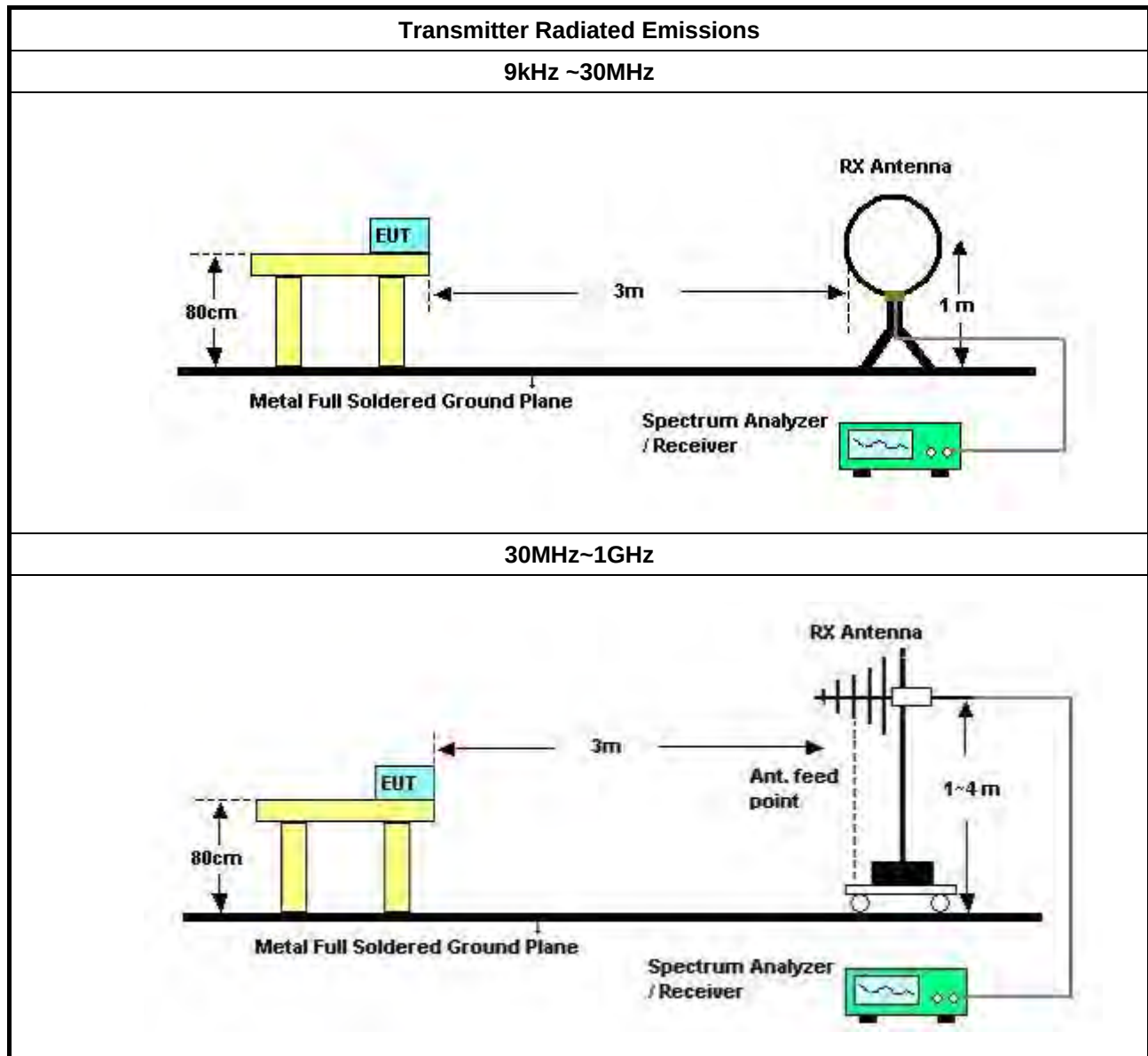
3.6.2 Measuring Instruments

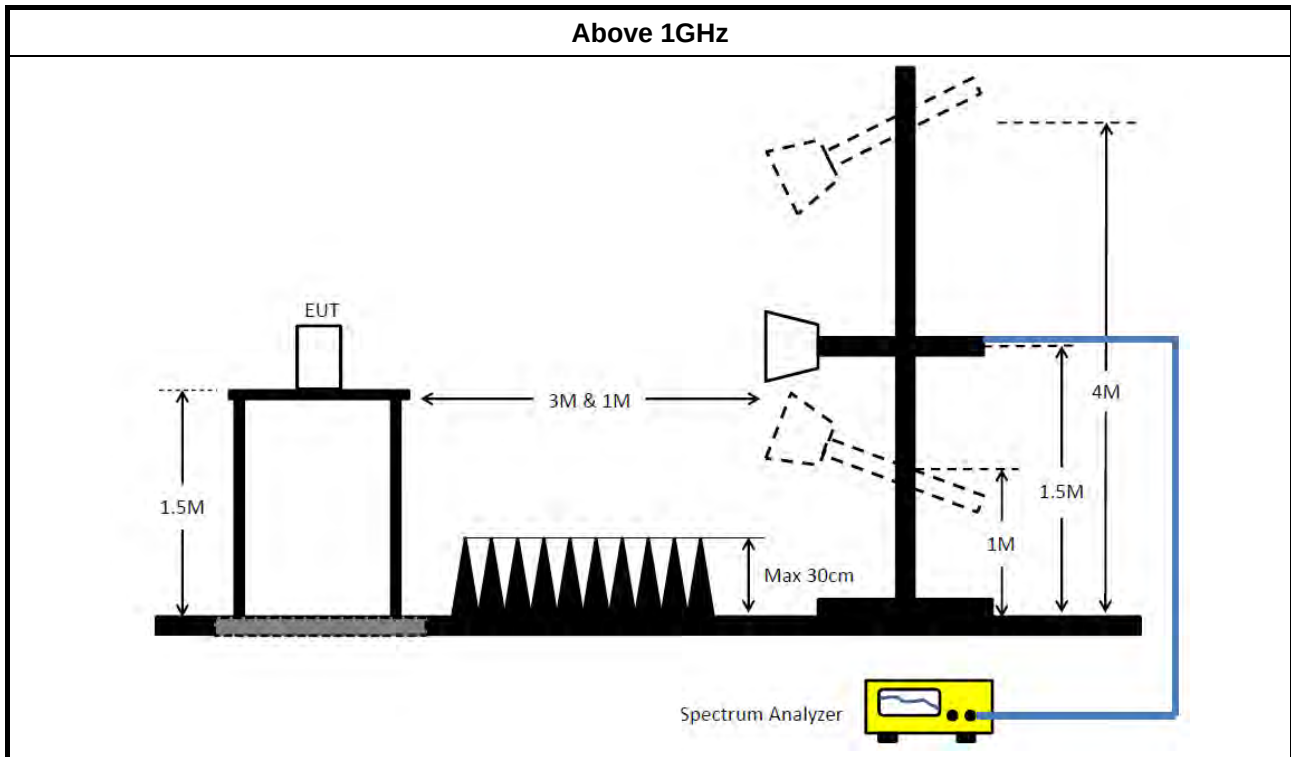
Refer a test equipment and calibration data table in this test report.

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 $\geq 98\%$)
	☐ 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 $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$, 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





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	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 14, 2016	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2016	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jun. 28, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)

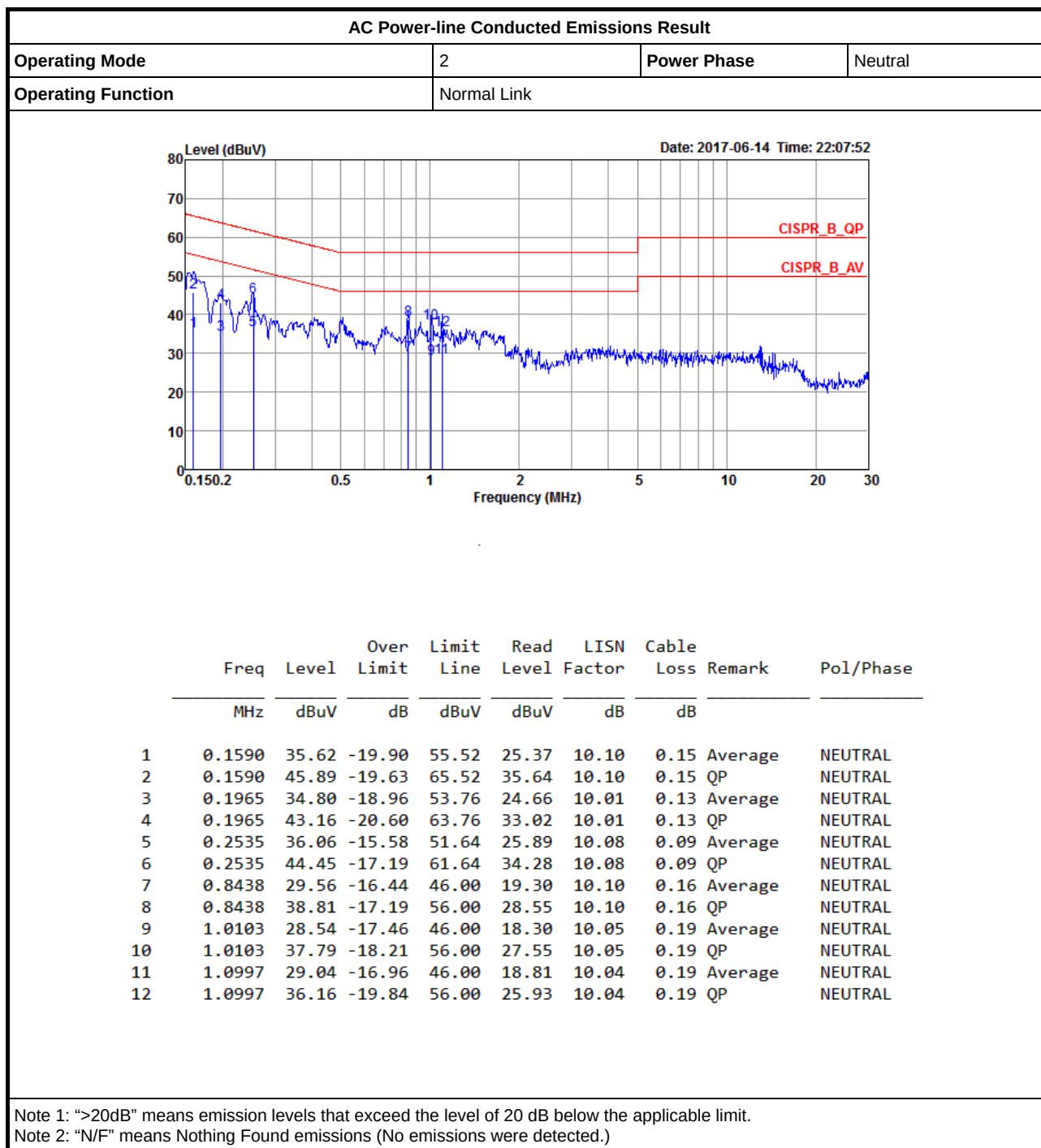


Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Conducted (TH01-CB)

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

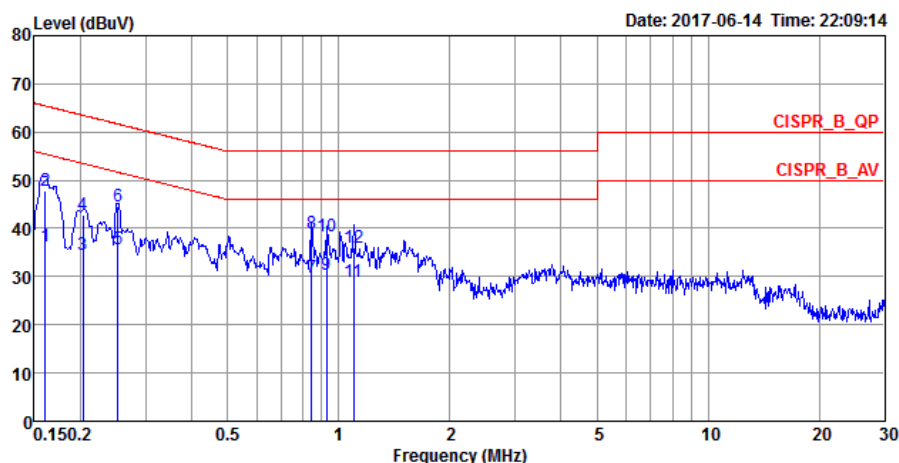
“*” Calibration Interval of instruments listed above is two years.

NCR means Non-Calibration required.



AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Line
Operating Function	Normal Link		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase
	MHz	dBuV	Limit	Line	Level	Factor	Loss		
			dB	dBuV	dBuV	dB	dB		
1	0.1607	36.35	-19.08	55.43	26.20	10.00	0.15	Average	LINE
2	0.1607	47.90	-17.53	65.43	37.75	10.00	0.15	QP	LINE
3	0.2029	34.67	-18.82	53.49	24.63	9.91	0.13	Average	LINE
4	0.2029	42.80	-20.69	63.49	32.76	9.91	0.13	QP	LINE
5	0.2521	35.72	-15.97	51.69	25.71	9.92	0.09	Average	LINE
6	0.2521	44.43	-17.26	61.69	34.42	9.92	0.09	QP	LINE
7	0.8438	29.70	-16.30	46.00	19.58	9.96	0.16	Average	LINE
8	0.8438	39.04	-16.96	56.00	28.92	9.96	0.16	QP	LINE
9	0.9282	30.43	-15.57	46.00	20.29	9.96	0.18	Average	LINE
10	0.9282	38.26	-17.74	56.00	28.12	9.96	0.18	QP	LINE
11	1.0997	29.02	-16.98	46.00	18.87	9.96	0.19	Average	LINE
12	1.0997	36.09	-19.91	56.00	25.94	9.96	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.)

**For Mode 1 (Antenna Set 1):
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11b_(1Mbps)_4TX	-	-	-	-	-
2.4-2.4835GHz	9M	11.619M	11M6G1D	8.025M	10.645M
802.11g_(6Mbps)_4TX	-	-	-	-	-
2.4-2.4835GHz	16.5M	16.917M	16M9D1D	16.3M	16.517M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-
2.4-2.4835GHz	17.6M	17.866M	17M9D1D	17.55M	17.741M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-
2.4-2.4835GHz	36.35M	36.282M	36M3D1D	35.6M	36.132M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
2.4-2.4835GHz	16.275M	17.641M	17M6D1D	14.1M	17.516M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
2.4-2.4835GHz	36.35M	36.332M	36M3D1D	35.75M	36.132M

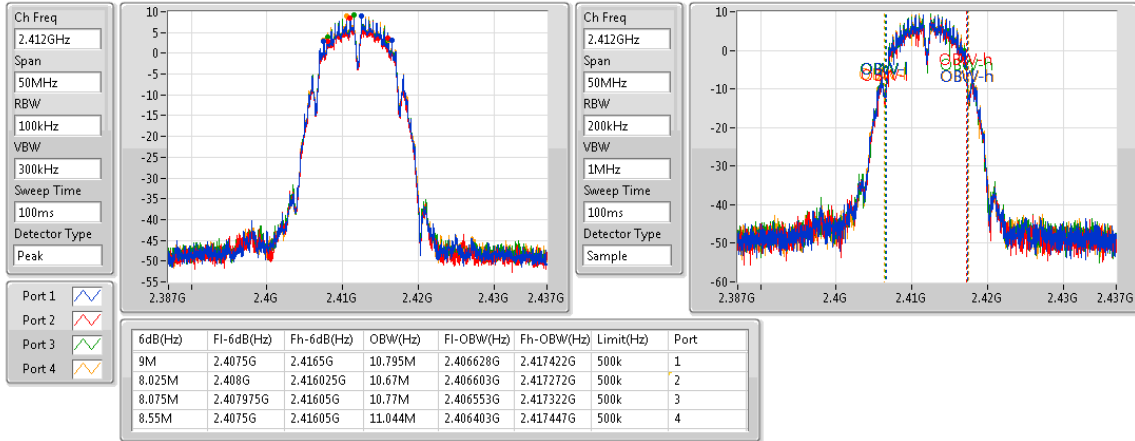
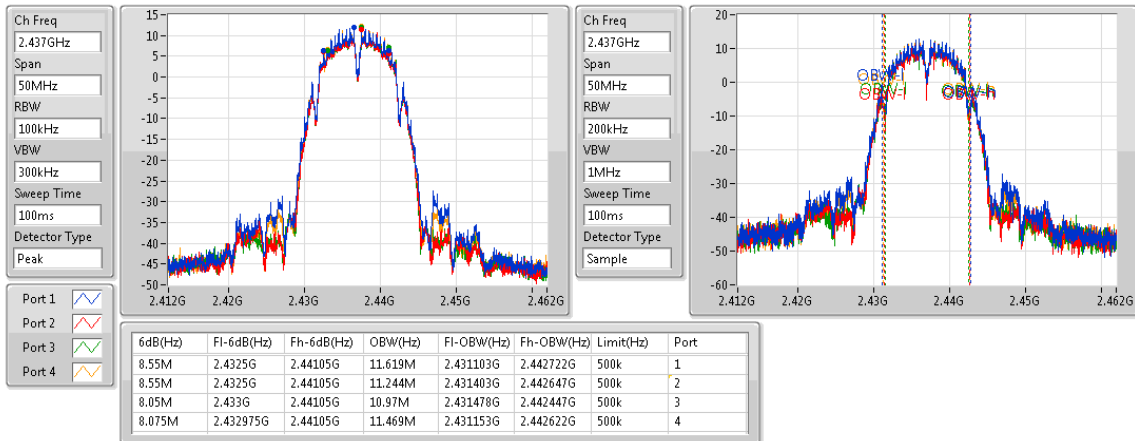
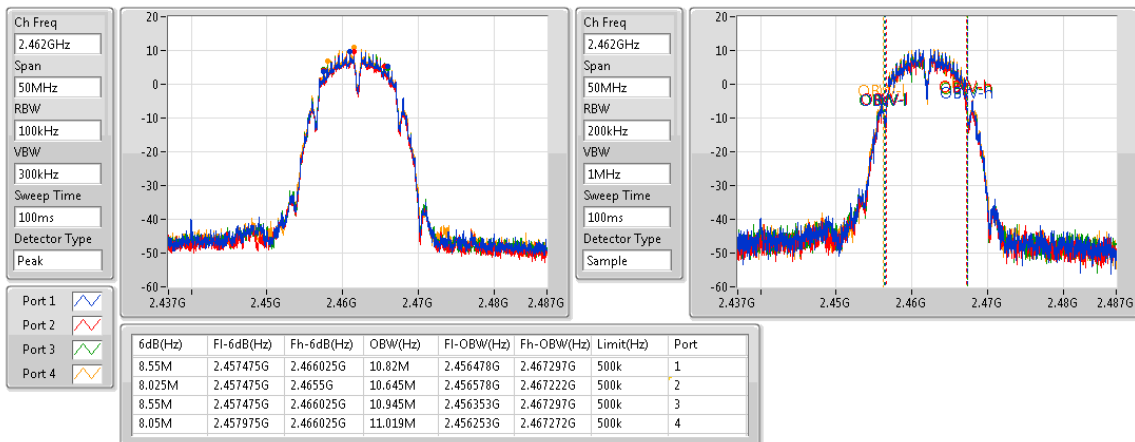
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

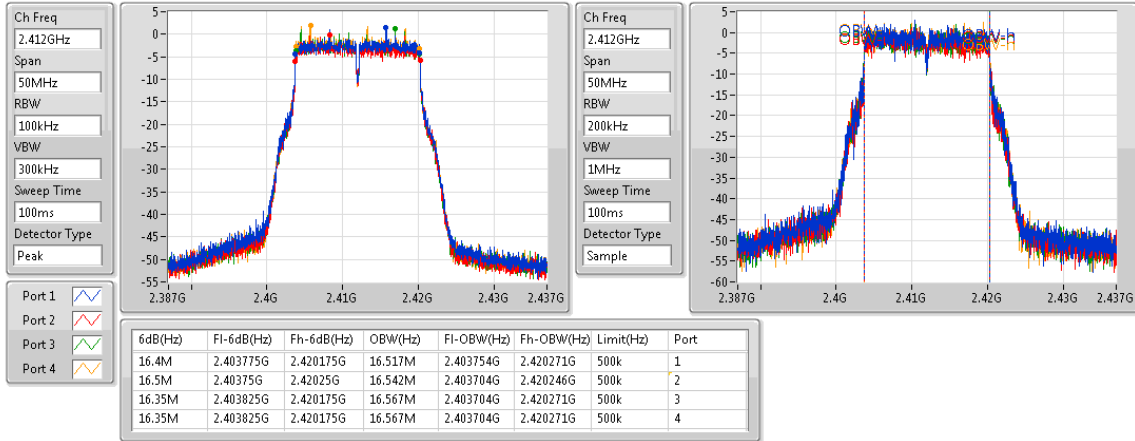
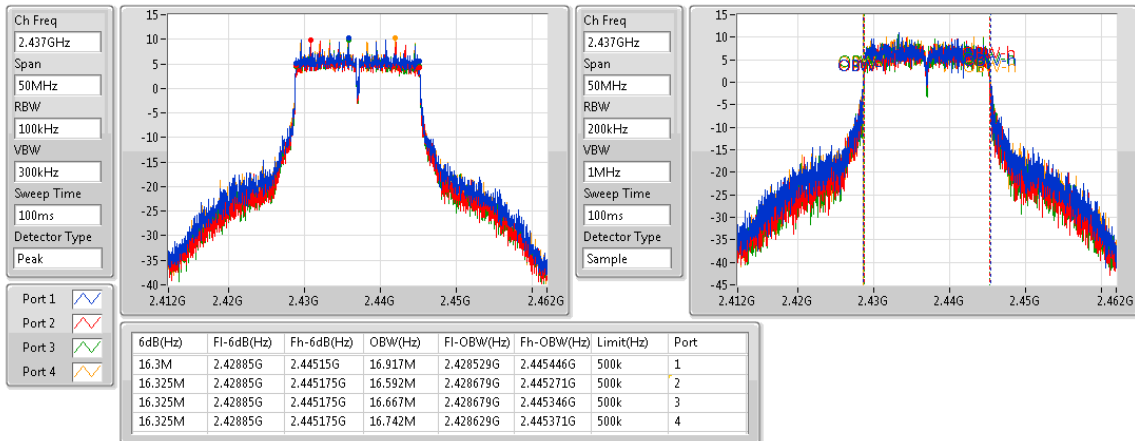
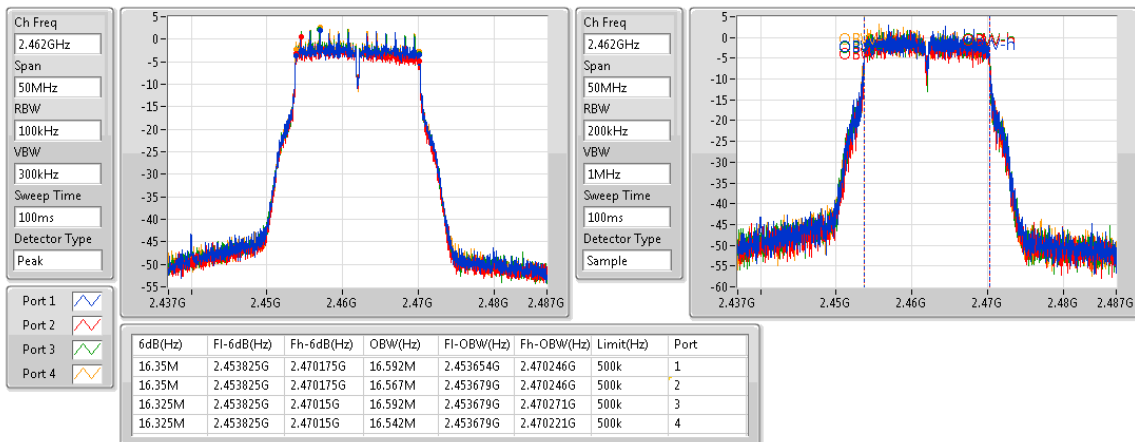
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

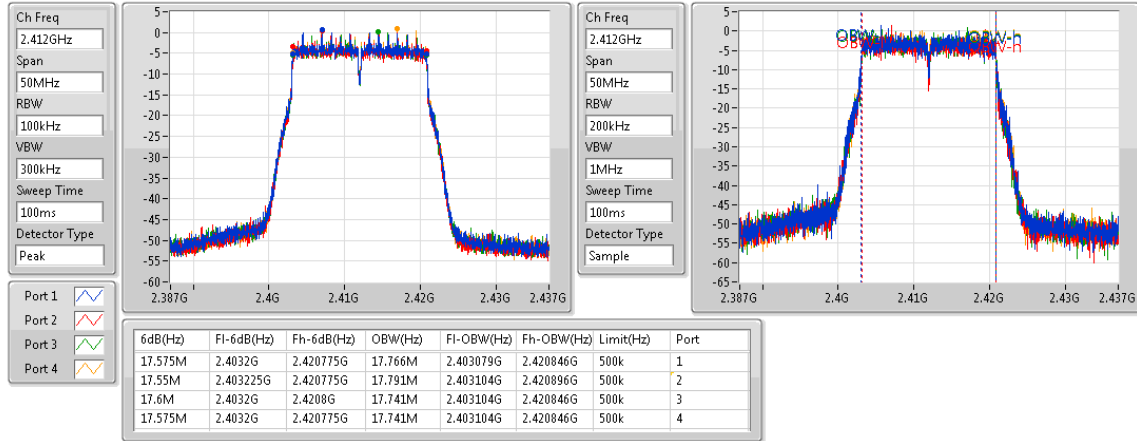
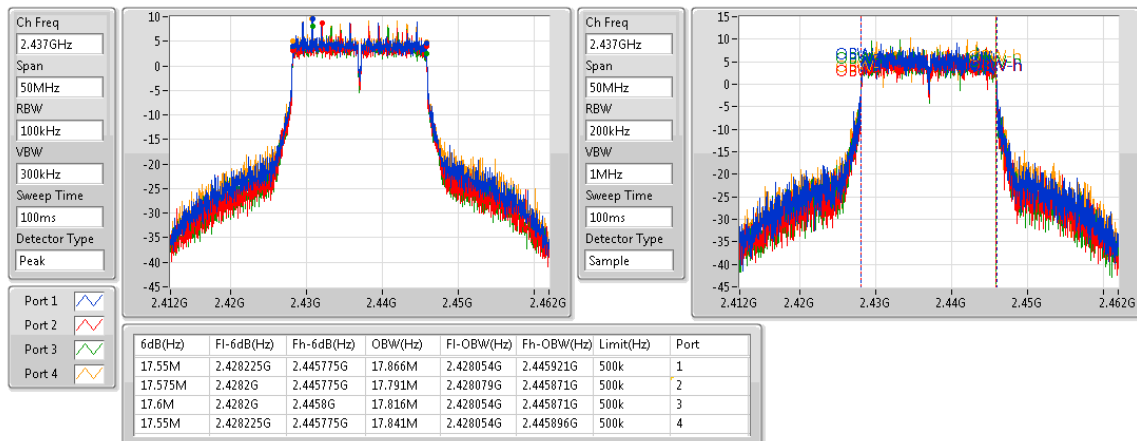
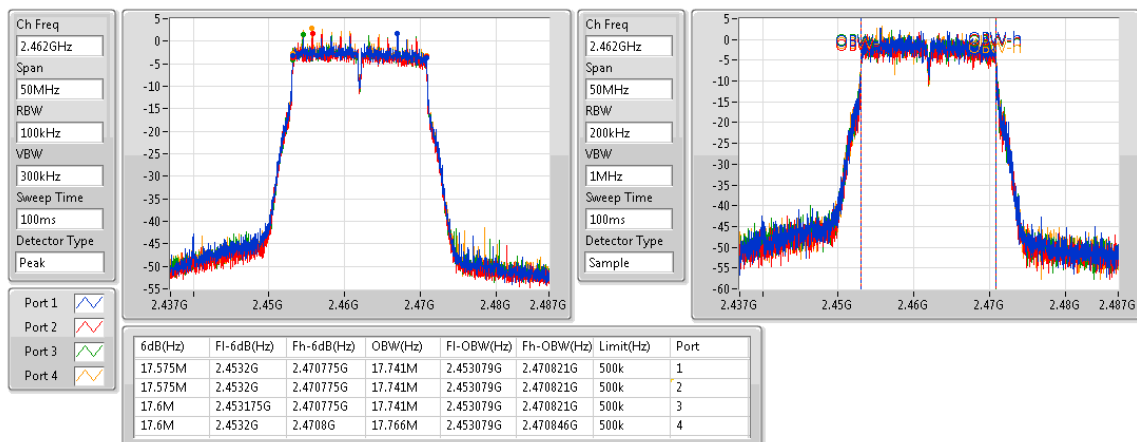
Result

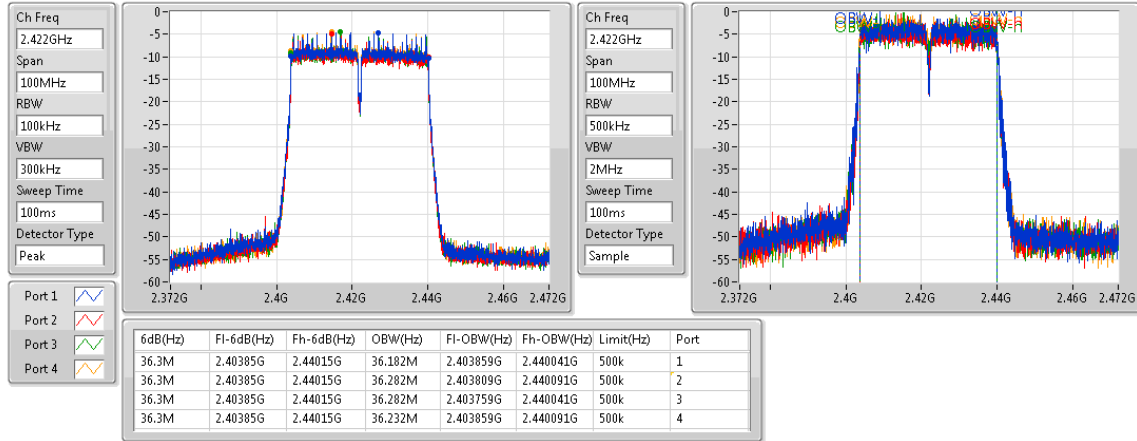
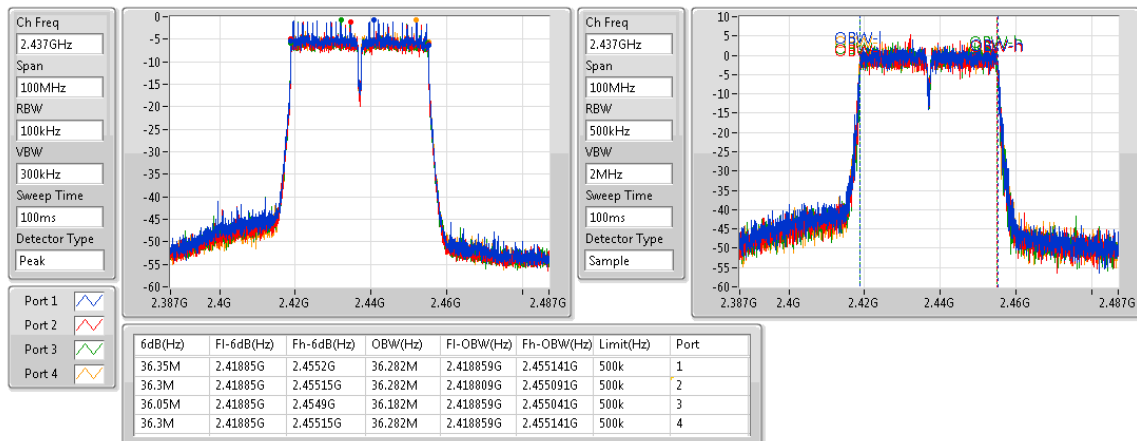
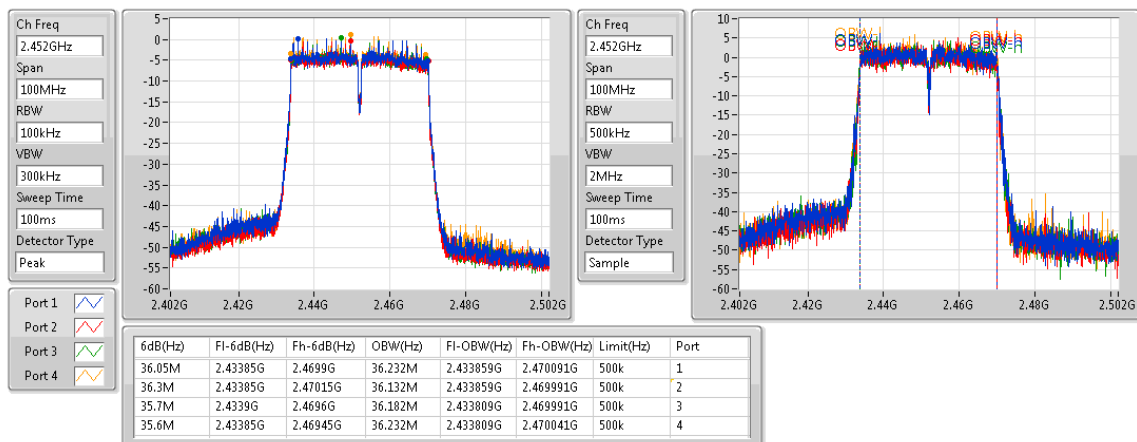
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	9M	10.795M	8.025M	10.67M	8.075M	10.77M	8.55M	11.044M
2437MHz	Pass	500k	8.55M	11.619M	8.55M	11.244M	8.05M	10.97M	8.075M	11.469M
2462MHz	Pass	500k	8.55M	10.82M	8.025M	10.645M	8.55M	10.945M	8.05M	11.019M
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.4M	16.517M	16.5M	16.542M	16.35M	16.567M	16.35M	16.567M
2437MHz	Pass	500k	16.3M	16.917M	16.325M	16.592M	16.325M	16.667M	16.325M	16.742M
2462MHz	Pass	500k	16.35M	16.592M	16.35M	16.567M	16.325M	16.592M	16.325M	16.542M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	17.575M	17.766M	17.55M	17.791M	17.6M	17.741M	17.575M	17.741M
2437MHz	Pass	500k	17.55M	17.866M	17.575M	17.791M	17.6M	17.816M	17.55M	17.841M
2462MHz	Pass	500k	17.575M	17.741M	17.575M	17.741M	17.6M	17.741M	17.6M	17.766M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	36.3M	36.182M	36.3M	36.282M	36.3M	36.282M	36.3M	36.232M
2437MHz	Pass	500k	36.35M	36.282M	36.3M	36.282M	36.05M	36.182M	36.3M	36.282M
2452MHz	Pass	500k	36.05M	36.232M	36.3M	36.132M	35.7M	36.182M	35.6M	36.232M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	15.025M	17.541M	16.275M	17.541M	15M	17.566M	15M	17.566M
2437MHz	Pass	500k	15M	17.641M	16.275M	17.616M	15.1M	17.566M	14.4M	17.616M
2462MHz	Pass	500k	14.1M	17.541M	15.075M	17.541M	15.075M	17.516M	15.6M	17.541M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	36.3M	36.232M	36.35M	36.282M	36.35M	36.132M	36.35M	36.232M
2437MHz	Pass	500k	36.35M	36.282M	36.35M	36.232M	36.3M	36.182M	36.35M	36.282M
2452MHz	Pass	500k	36.3M	36.232M	35.75M	36.182M	36.3M	36.332M	36M	36.282M

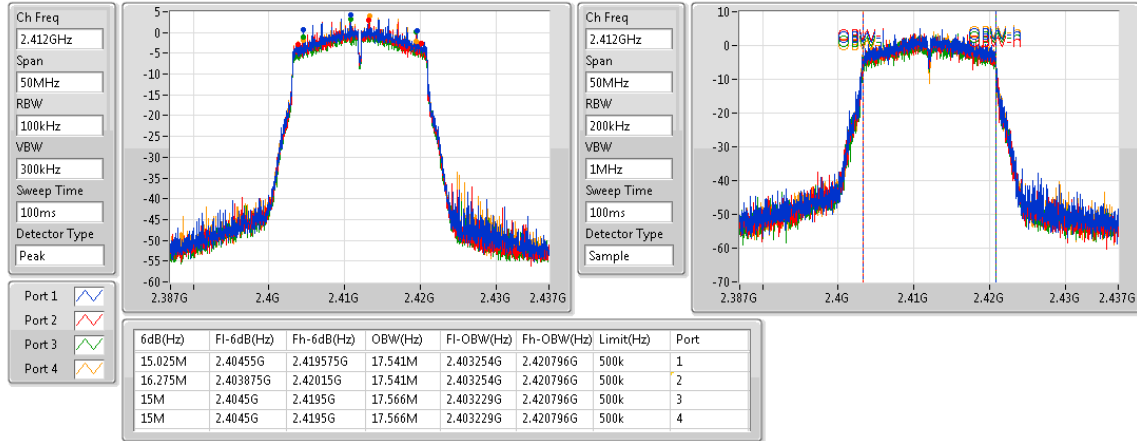
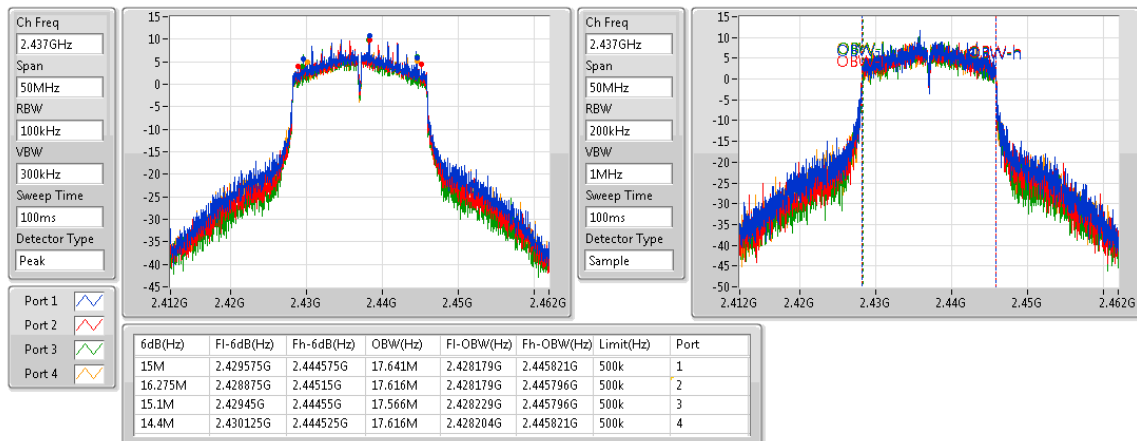
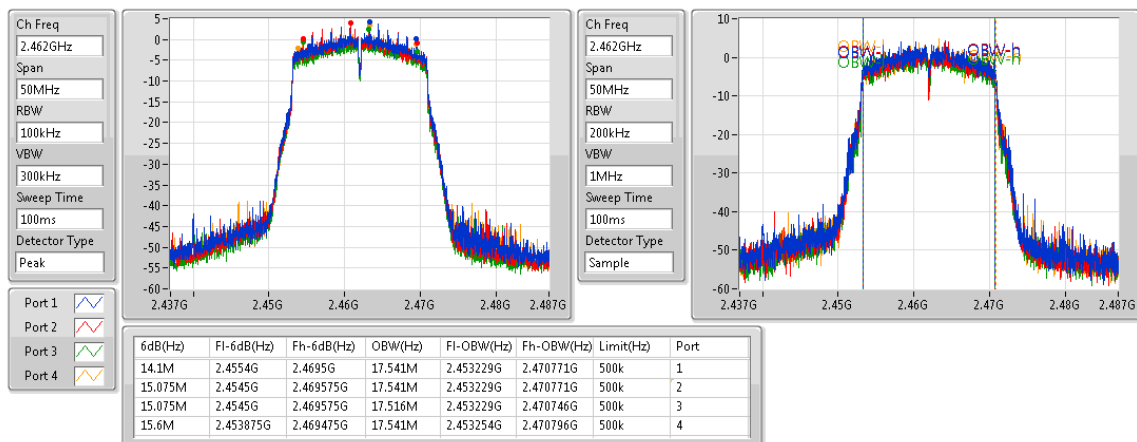
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

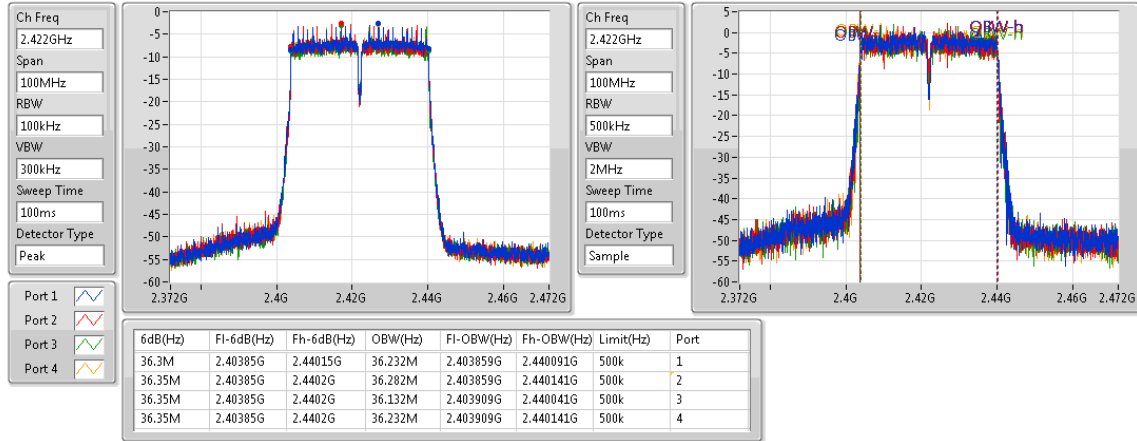
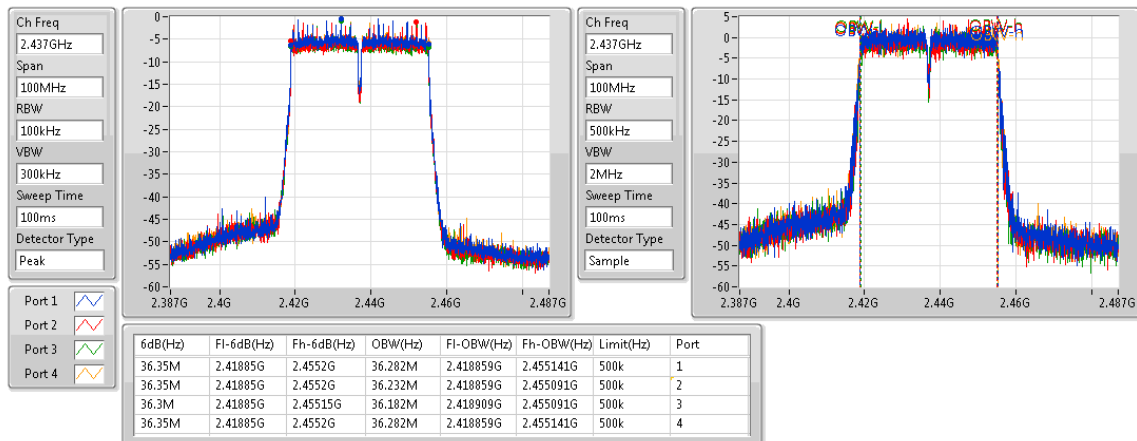
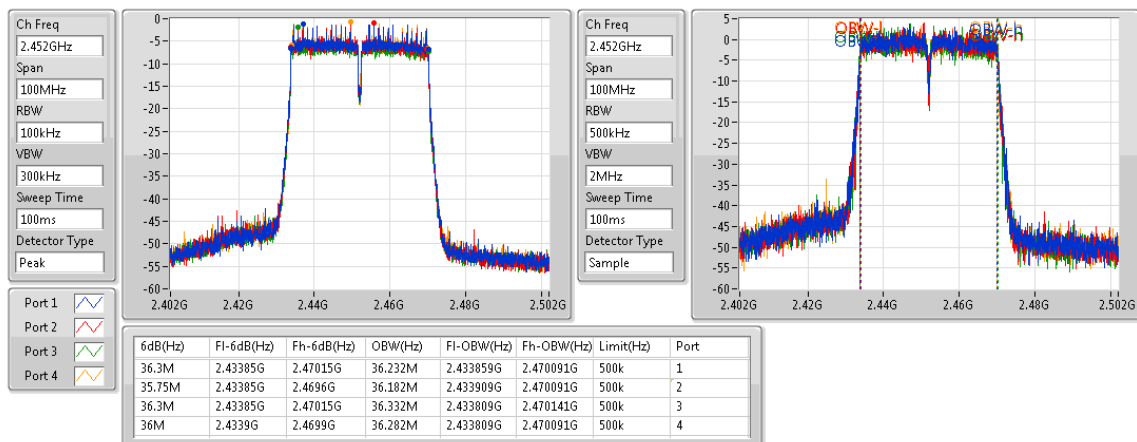
802.11b_(1Mbps)_4TX
EBW
2412MHz

802.11b_(1Mbps)_4TX
EBW
2437MHz

802.11b_(1Mbps)_4TX
EBW
2462MHz


802.11g_(6Mbps)_4TX
EBW
2412MHz

802.11g_(6Mbps)_4TX
EBW
2437MHz

802.11g_(6Mbps)_4TX
EBW
2462MHz


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
2412MHz

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
2437MHz

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
2462MHz


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
2422MHz

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
2437MHz

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
2452MHz


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
2412MHz

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
2437MHz

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
2462MHz


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
2422MHz

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
2437MHz

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
2452MHz


**For Mode 2 (Antenna Set 2 with Gray Cable):
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11b_(1Mbps)_4TX	-	-	-	-	-
2.4-2.4835GHz	9.025M	11.644M	11M6G1D	8.05M	10.77M
802.11g_(6Mbps)_4TX	-	-	-	-	-
2.4-2.4835GHz	16.35M	17.216M	17M2D1D	16.3M	16.592M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-
2.4-2.4835GHz	17.6M	18.766M	18M8D1D	17.55M	17.741M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-
2.4-2.4835GHz	36.35M	36.332M	36M3D1D	35.65M	36.132M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
2.4-2.4835GHz	16.85M	17.691M	17M7D1D	14.975M	17.541M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
2.4-2.4835GHz	36.35M	36.332M	36M3D1D	36.25M	36.182M

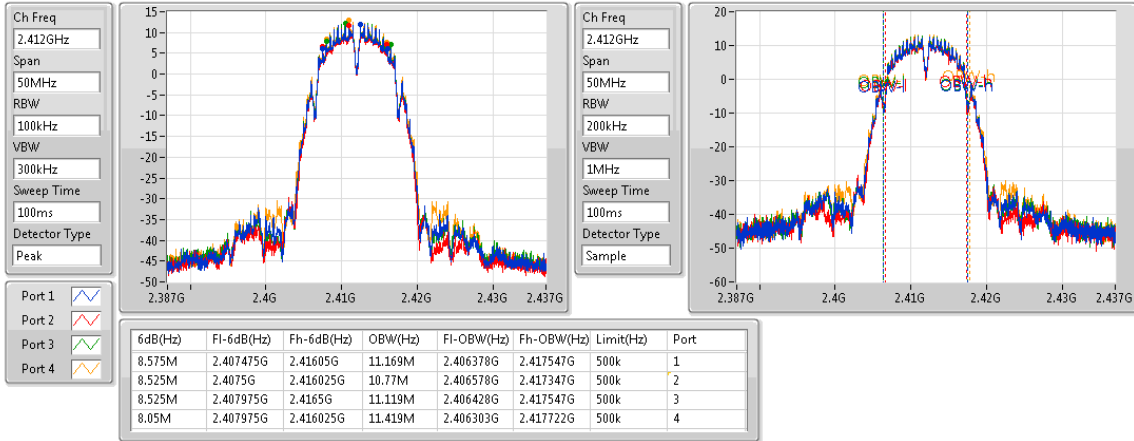
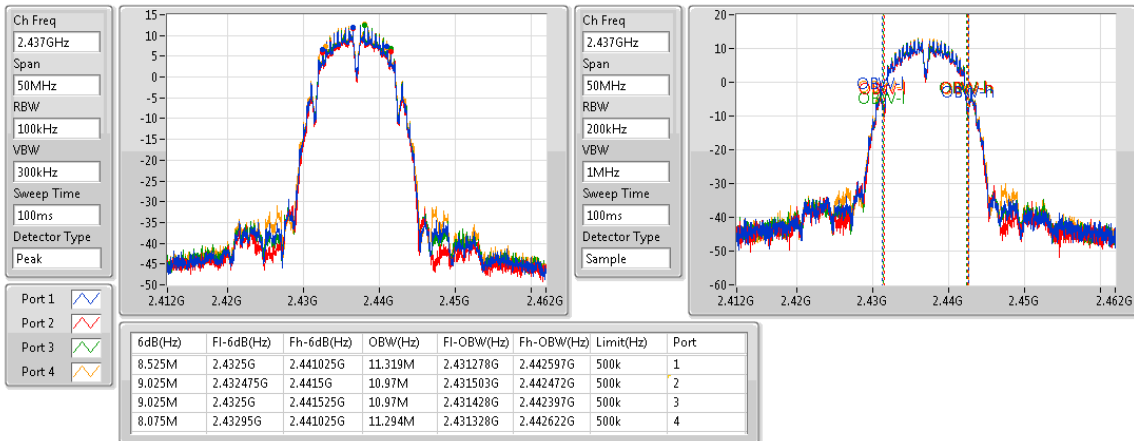
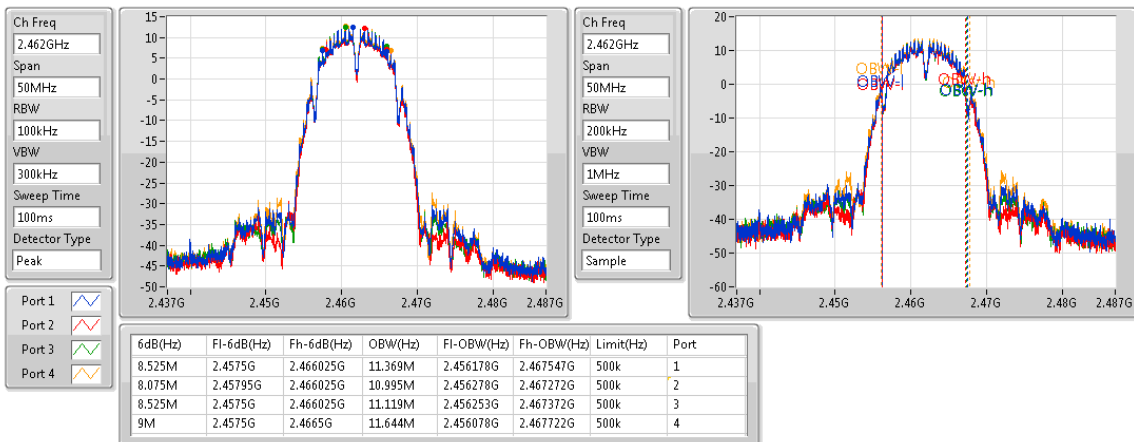
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

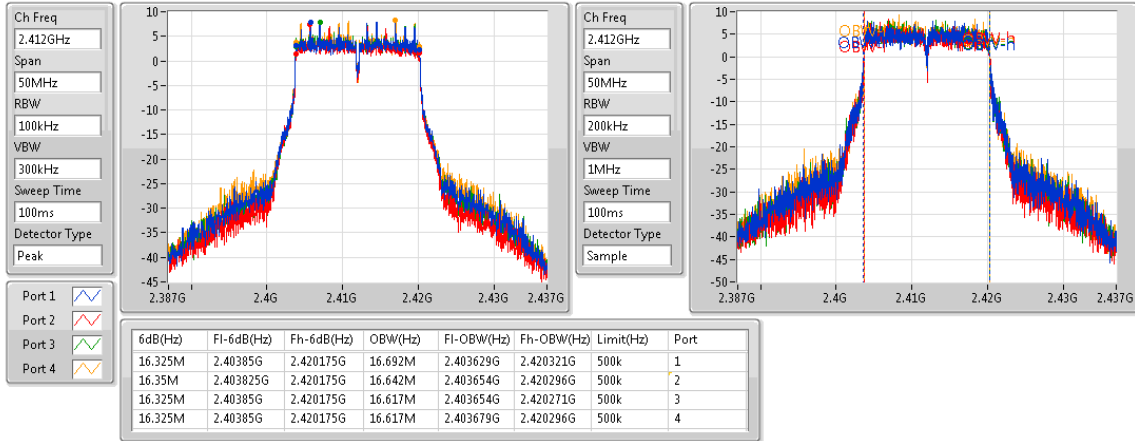
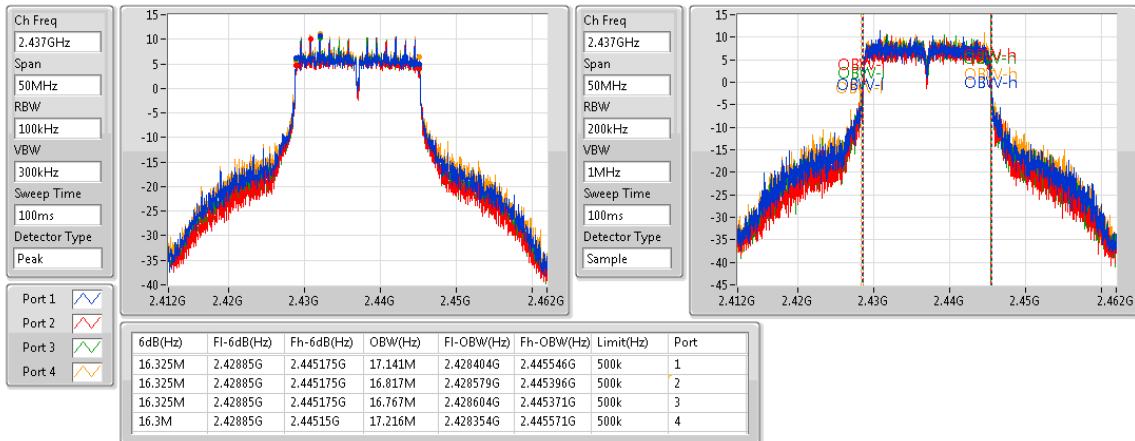
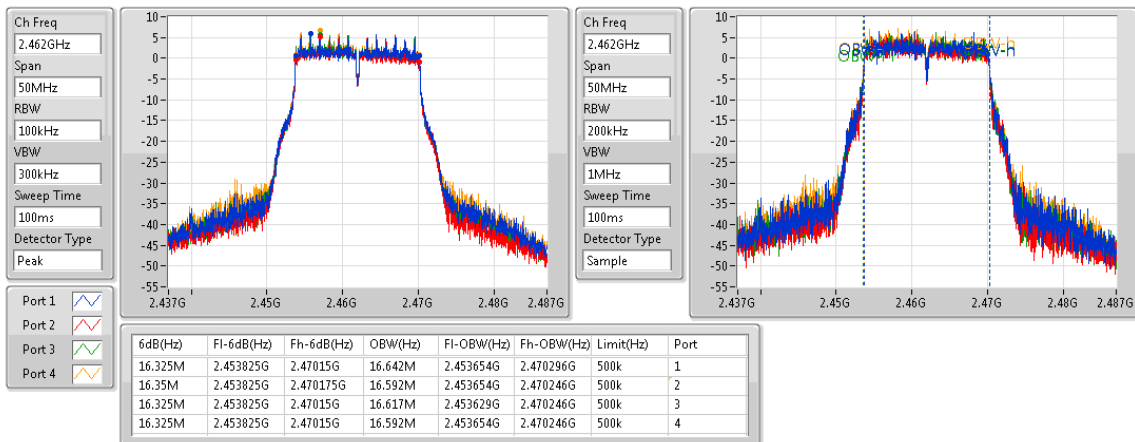
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

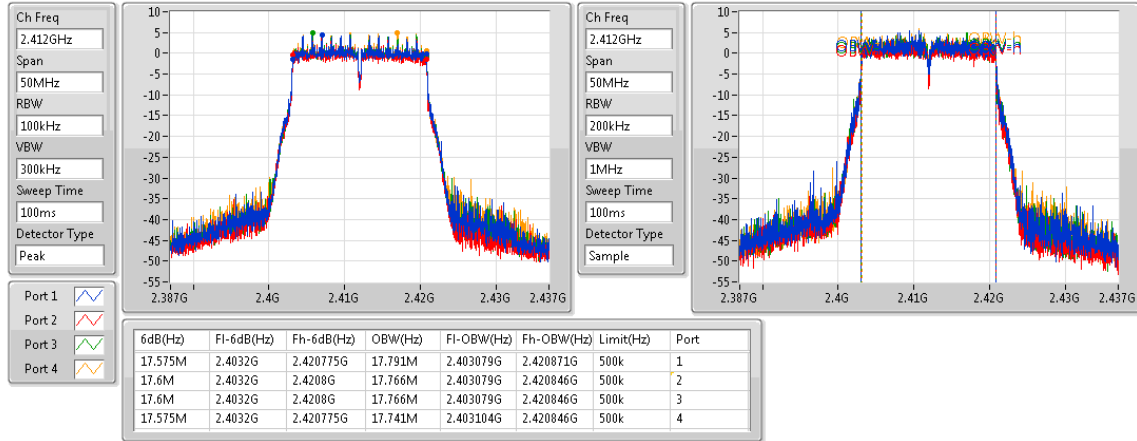
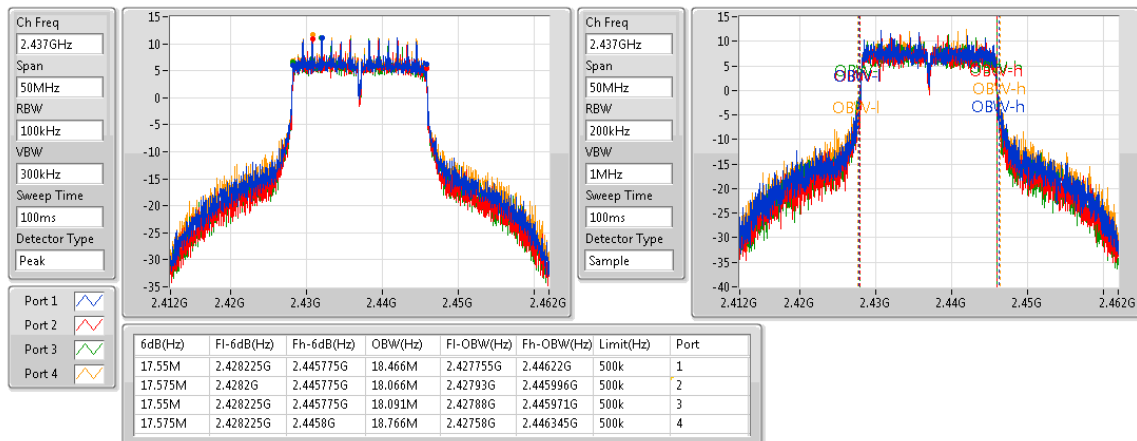
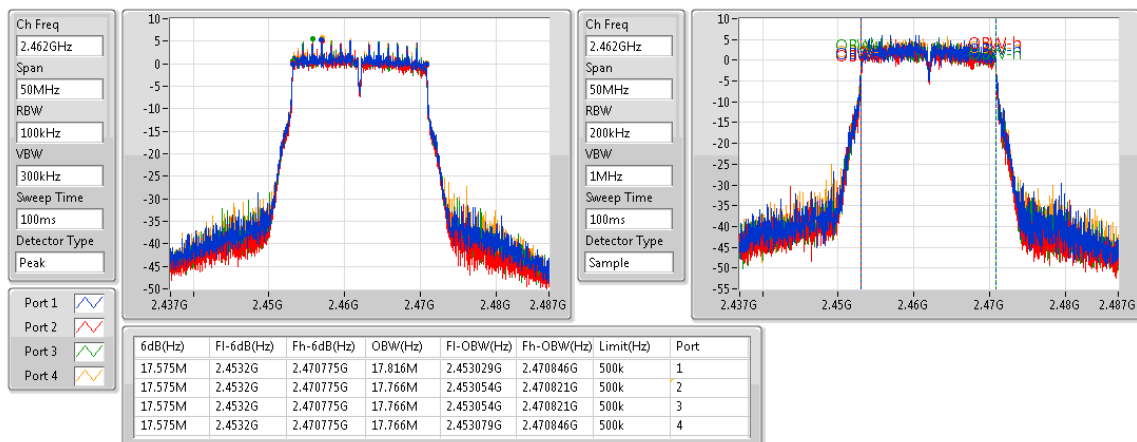
Result

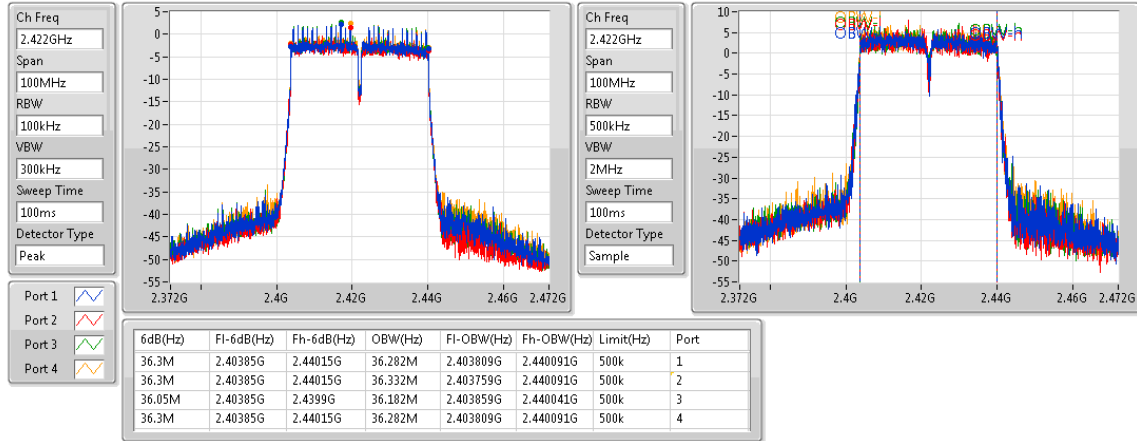
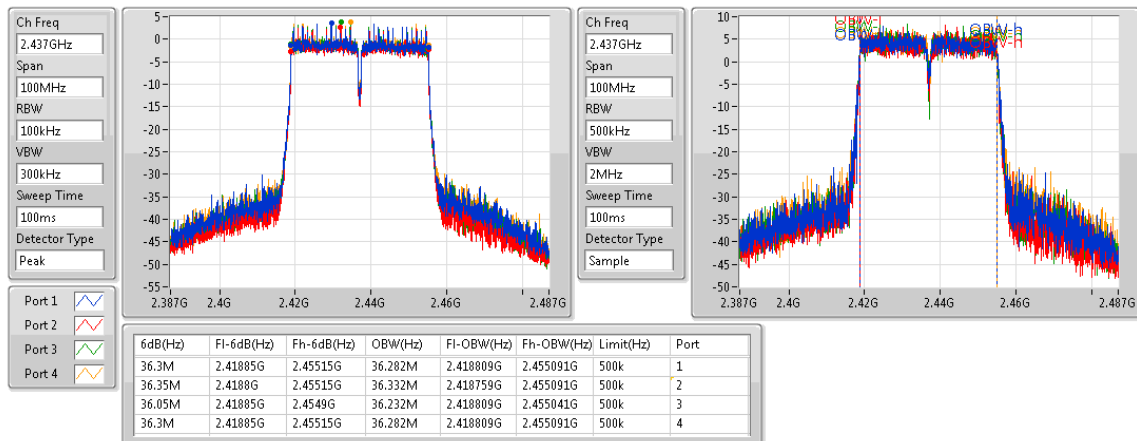
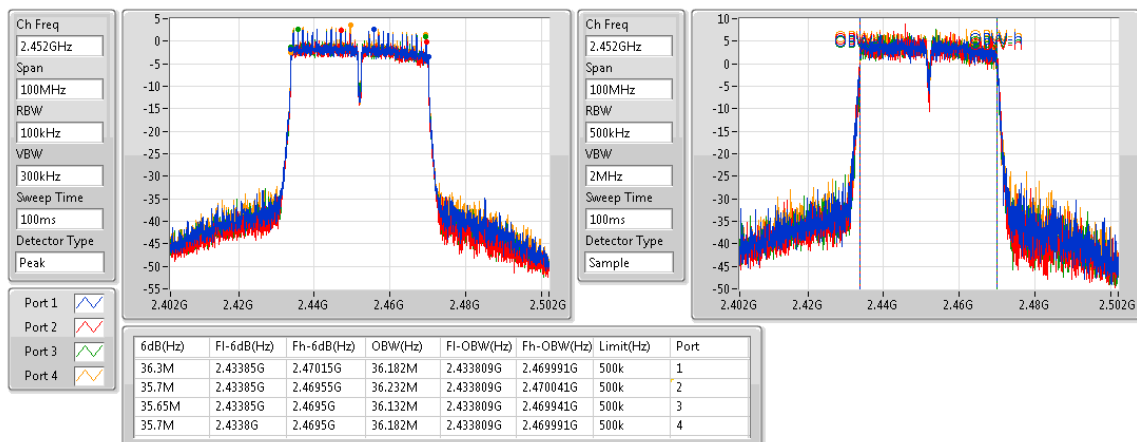
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	8.575M	11.169M	8.525M	10.77M	8.525M	11.119M	8.05M	11.419M
2437MHz	Pass	500k	8.525M	11.319M	9.025M	10.97M	9.025M	10.97M	8.075M	11.294M
2462MHz	Pass	500k	8.525M	11.369M	8.075M	10.995M	8.525M	11.119M	9M	11.644M
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.692M	16.35M	16.642M	16.325M	16.617M	16.325M	16.617M
2437MHz	Pass	500k	16.325M	17.141M	16.325M	16.817M	16.325M	16.767M	16.3M	17.216M
2462MHz	Pass	500k	16.325M	16.642M	16.35M	16.592M	16.325M	16.617M	16.325M	16.592M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	17.575M	17.791M	17.6M	17.766M	17.6M	17.766M	17.575M	17.741M
2437MHz	Pass	500k	17.55M	18.466M	17.575M	18.066M	17.55M	18.091M	17.575M	18.766M
2462MHz	Pass	500k	17.575M	17.816M	17.575M	17.766M	17.575M	17.766M	17.575M	17.766M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	36.3M	36.282M	36.3M	36.332M	36.05M	36.182M	36.3M	36.282M
2437MHz	Pass	500k	36.3M	36.282M	36.35M	36.332M	36.05M	36.232M	36.3M	36.282M
2452MHz	Pass	500k	36.3M	36.182M	35.7M	36.232M	35.65M	36.132M	35.7M	36.182M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	15.025M	17.541M	16.25M	17.541M	15.625M	17.541M	15.125M	17.566M
2437MHz	Pass	500k	15.15M	17.691M	16.85M	17.616M	14.975M	17.591M	14.975M	17.641M
2462MHz	Pass	500k	14.975M	17.591M	15.1M	17.591M	15.025M	17.541M	15.7M	17.541M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	36.3M	36.332M	36.35M	36.282M	36.3M	36.232M	36.35M	36.232M
2437MHz	Pass	500k	36.3M	36.282M	36.35M	36.282M	36.3M	36.182M	36.25M	36.332M
2452MHz	Pass	500k	36.35M	36.282M	36.35M	36.332M	36.3M	36.282M	36.35M	36.182M

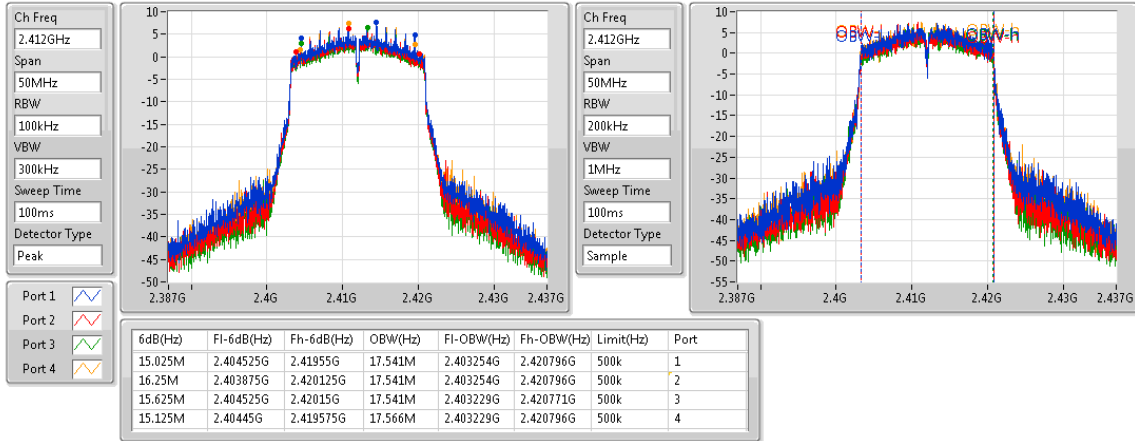
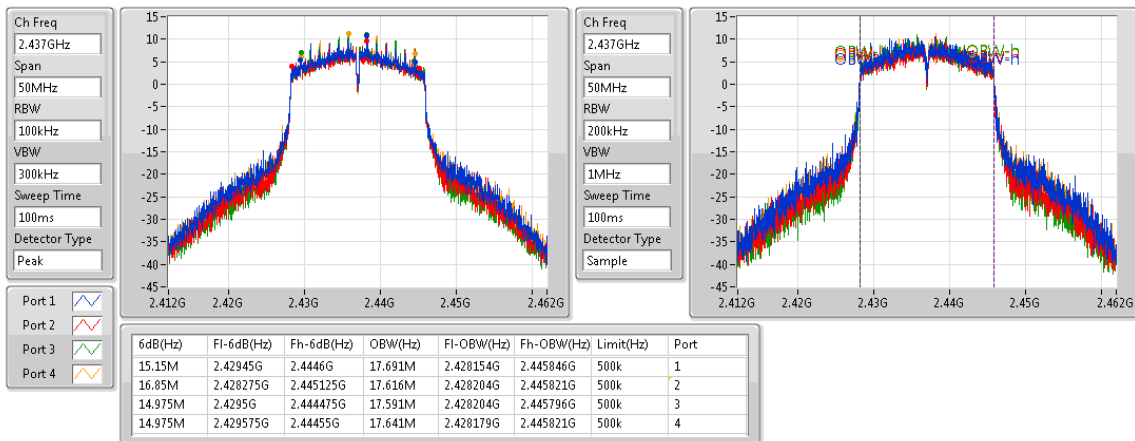
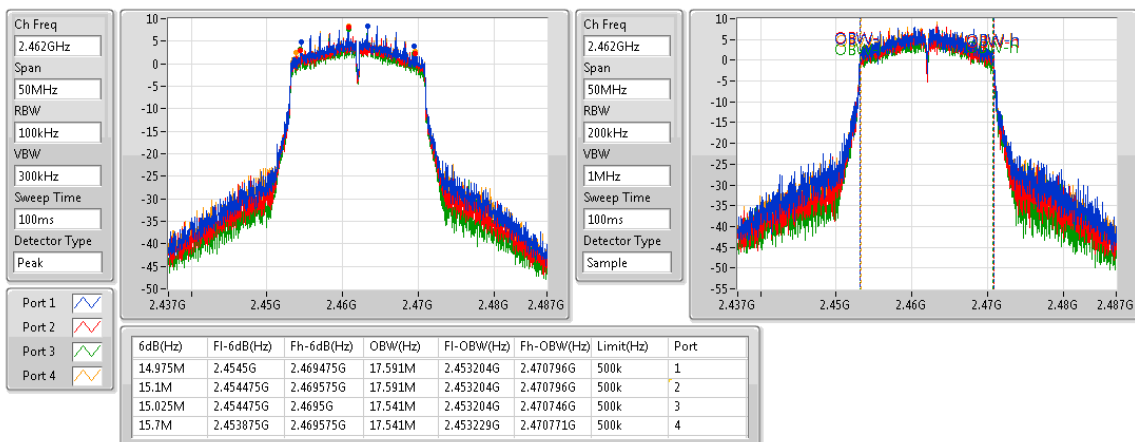
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

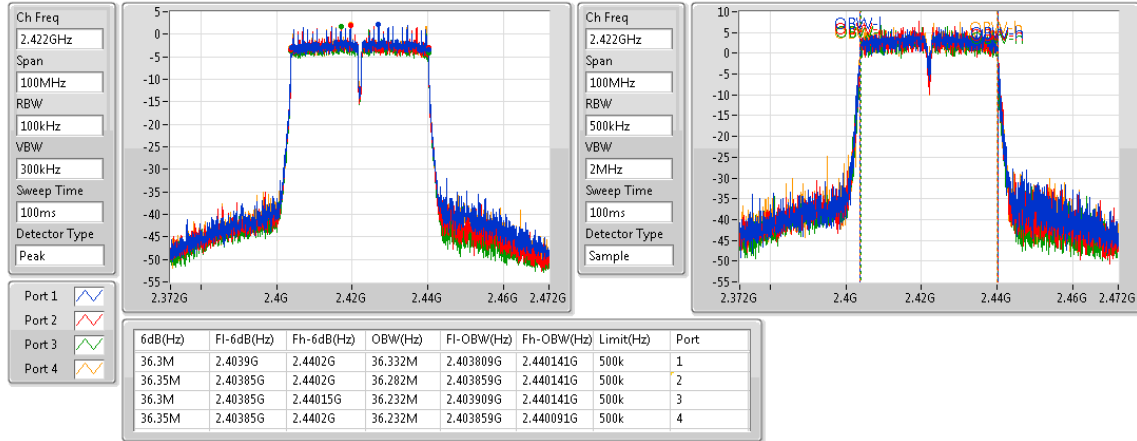
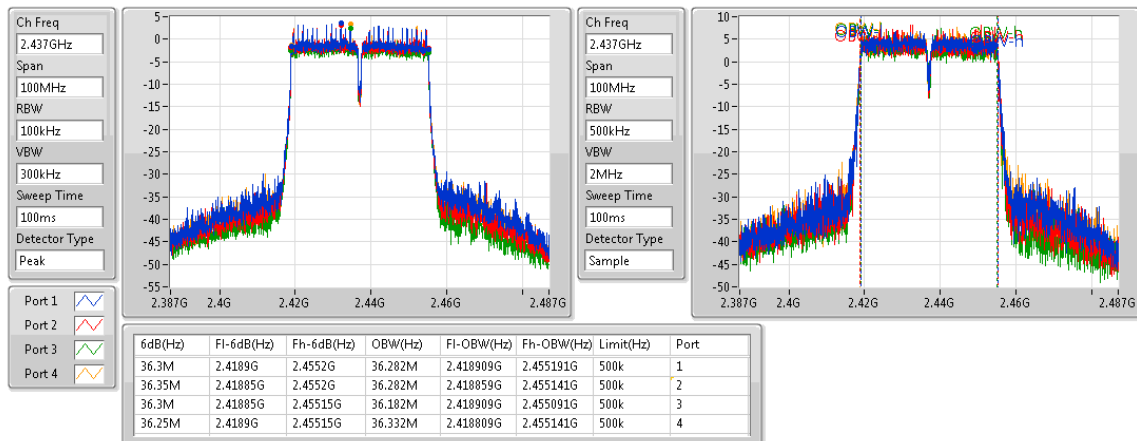
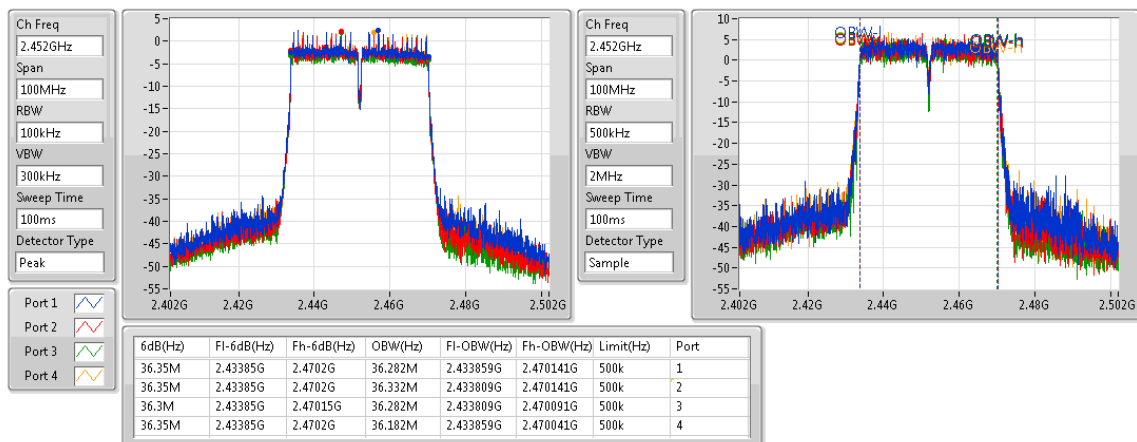
802.11b_(1Mbps)_4TX
EBW
2412MHz

802.11b_(1Mbps)_4TX
EBW
2437MHz

802.11b_(1Mbps)_4TX
EBW
2462MHz


802.11g_(6Mbps)_4TX
EBW
2412MHz

802.11g_(6Mbps)_4TX
EBW
2437MHz

802.11g_(6Mbps)_4TX
EBW
2462MHz


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
2412MHz

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
2437MHz

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
2462MHz


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
2422MHz

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
2437MHz

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
2452MHz


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
2412MHz

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
2437MHz

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
2462MHz


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
2422MHz

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
2437MHz

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
2452MHz


**For Mode 1 (Antenna Set 1):
Summary**

Mode	Total Power (dBm)	Total Power (W)
802.11b_(1Mbps)_4TX	-	-
2.4-2.4835GHz	27.25	0.53088
802.11g_(6Mbps)_4TX	-	-
2.4-2.4835GHz	28.05	0.63826
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	26.20	0.41687
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	20.01	0.10023
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	26.43	0.43954
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	19.36	0.08630

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.53	17.32	17.31	17.20	17.09	23.25	30.00
2437MHz	Pass	3.53	21.13	20.88	21.29	21.59	27.25	30.00
2462MHz	Pass	3.53	18.03	18.02	18.14	18.12	24.10	30.00
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.53	13.48	13.21	12.36	13.67	19.23	30.00
2437MHz	Pass	3.53	21.98	22.05	21.98	22.09	28.05	30.00
2462MHz	Pass	3.53	13.21	13.20	13.21	13.53	19.31	30.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.53	12.04	12.01	12.02	12.06	18.05	30.00
2437MHz	Pass	3.53	20.09	20.12	20.07	20.43	26.20	30.00
2462MHz	Pass	3.53	13.44	13.24	13.35	13.74	19.47	30.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	3.53	9.83	9.11	9.48	9.96	15.63	30.00
2437MHz	Pass	3.53	13.77	12.84	13.39	13.57	19.43	30.00
2452MHz	Pass	3.53	14.13	13.46	13.88	14.44	20.01	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.55	14.90	14.48	13.75	14.64	20.48	26.45
2437MHz	Pass	9.55	20.91	20.37	19.77	20.51	26.43	26.45
2462MHz	Pass	9.55	14.98	14.54	13.76	14.52	20.49	26.45
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	9.55	11.84	11.49	10.99	11.70	17.54	26.45
2437MHz	Pass	9.55	13.73	13.13	12.93	13.52	19.36	26.45
2452MHz	Pass	9.55	13.33	13.12	12.70	13.28	19.14	26.45

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

**For Mode 2 (Antenna Set 2 with Gray Cable):
Summary**

Mode	Total Power (dBm)	Total Power (W)
802.11b_(1Mbps)_4TX	-	-
2.4-2.4835GHz	27.80	0.60256
802.11g_(6Mbps)_4TX	-	-
2.4-2.4835GHz	27.91	0.61802
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	28.41	0.69343
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	23.76	0.23768
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	26.43	0.43954
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	22.92	0.19588

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	0.60	21.06	20.73	21.26	21.60	27.19	30.00
2437MHz	Pass	0.60	20.37	20.22	20.32	20.71	26.43	30.00
2462MHz	Pass	0.60	22.00	21.30	21.69	22.09	27.80	30.00
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	0.60	19.52	18.94	19.55	19.87	25.50	30.00
2437MHz	Pass	0.60	21.88	21.51	22.10	22.05	27.91	30.00
2462MHz	Pass	0.60	17.55	16.93	17.42	17.91	23.49	30.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	0.60	16.66	15.90	16.39	16.77	22.46	30.00
2437MHz	Pass	0.60	22.37	21.99	22.49	22.69	28.41	30.00
2462MHz	Pass	0.60	17.19	16.59	16.99	17.48	23.10	30.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	0.60	16.15	15.75	16.34	16.92	22.33	30.00
2437MHz	Pass	0.60	17.62	17.38	17.84	18.10	23.76	30.00
2452MHz	Pass	0.60	17.17	16.84	17.26	17.76	23.29	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.62	18.08	17.37	16.90	17.64	23.54	29.38
2437MHz	Pass	6.62	20.91	20.37	19.77	20.51	26.43	29.38
2462MHz	Pass	6.62	18.78	18.15	17.89	18.53	24.37	29.38
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	6.62	16.24	15.74	15.53	16.26	21.98	29.38
2437MHz	Pass	6.62	17.32	16.78	16.37	17.07	22.92	29.38
2452MHz	Pass	6.62	16.53	16.03	15.40	16.26	22.10	29.38

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

**For Mode 1 (Antenna Set 1):
Summary**

Mode	PD (dBm/RBW)
802.11b_(1Mbps)_4TX	-
2.4-2.4835GHz	0.60
802.11g_(6Mbps)_4TX	-
2.4-2.4835GHz	1.04
802.11ac VHT20_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	-1.52
802.11ac VHT40_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	-10.12
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	-0.18
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	-10.32

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.55	-6.95	-6.66	-4.94	-5.49	-2.58	4.45
2437MHz	Pass	9.55	-2.96	-2.95	-2.45	-2.50	0.60	4.45
2462MHz	Pass	9.55	-4.13	-6.21	-5.16	-4.32	-1.25	4.45
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.55	-11.95	-12.94	-11.96	-12.27	-7.23	4.45
2437MHz	Pass	9.55	-3.76	-3.80	-3.65	-4.41	1.04	4.45
2462MHz	Pass	9.55	-12.25	-12.11	-13.18	-12.03	-7.93	4.45
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.55	-13.16	-13.42	-14.25	-13.81	-10.41	4.45
2437MHz	Pass	9.55	-4.90	-5.57	-5.70	-4.72	-1.52	4.45
2462MHz	Pass	9.55	-10.99	-13.06	-12.19	-12.14	-8.32	4.45
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	9.55	-17.03	-19.76	-17.71	-17.97	-15.00	4.45
2437MHz	Pass	9.55	-13.38	-15.76	-13.59	-15.12	-10.53	4.45
2452MHz	Pass	9.55	-12.92	-13.35	-14.36	-13.51	-10.12	4.45
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.55	-9.90	-9.43	-8.96	-10.71	-5.47	4.45
2437MHz	Pass	9.55	-4.46	-3.99	-4.33	-4.77	-0.18	4.45
2462MHz	Pass	9.55	-11.17	-10.36	-11.70	-10.94	-7.43	4.45
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	9.55	-16.22	-15.21	-17.21	-17.28	-13.56	4.45
2437MHz	Pass	9.55	-12.10	-14.17	-15.18	-15.01	-10.32	4.45
2452MHz	Pass	9.55	-15.56	-15.65	-15.42	-14.59	-11.43	4.45

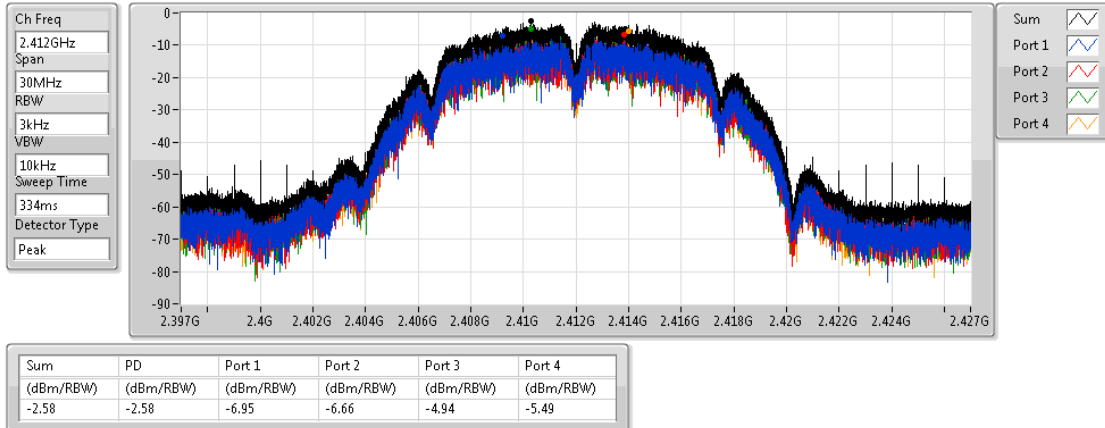
DG = Directional Gain; RBW=3kHz;

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

802.11b_(1Mbps)_4TX

PSD

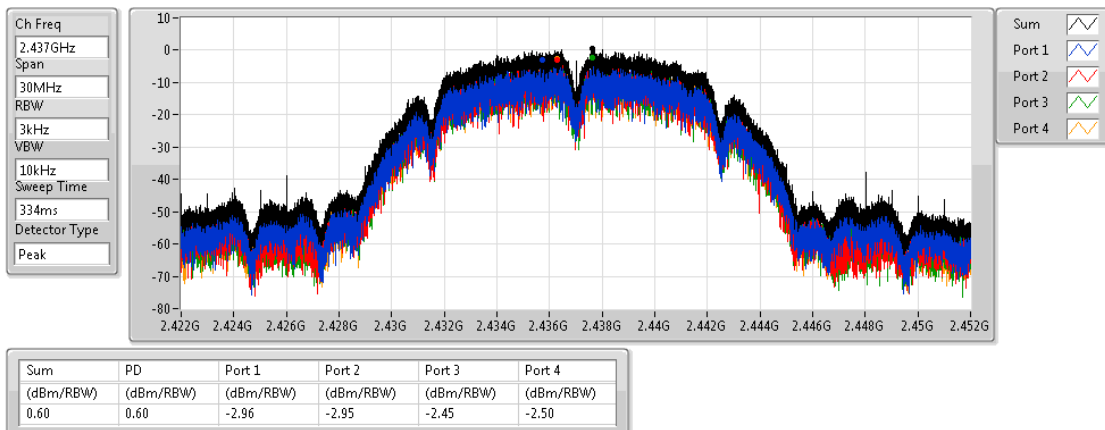
2412MHz



802.11b_(1Mbps)_4TX

PSD

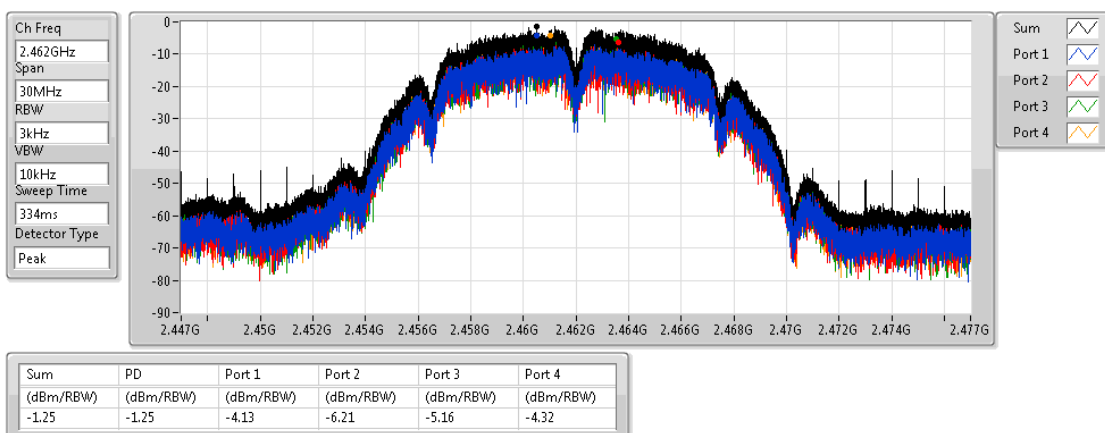
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802.11b_(1Mbps)_4TX

PSD

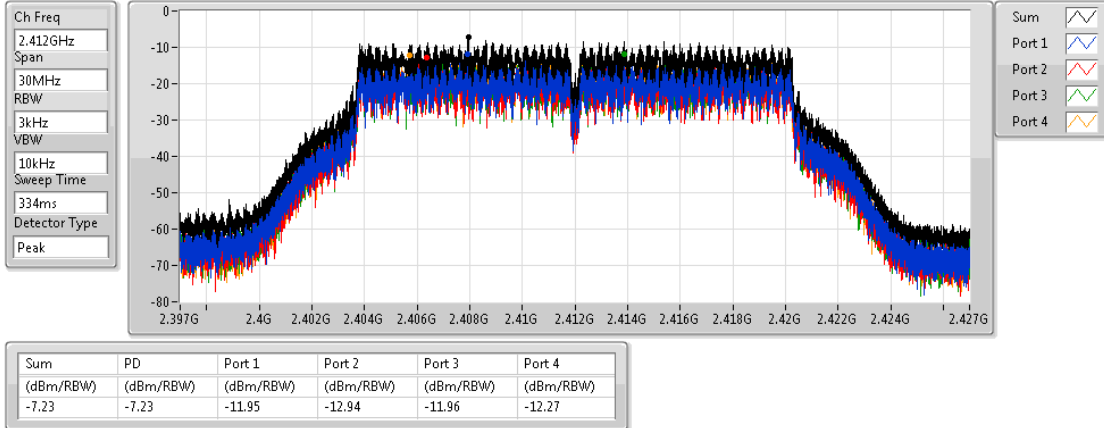
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802.11g_(6Mbps)_4TX

PSD

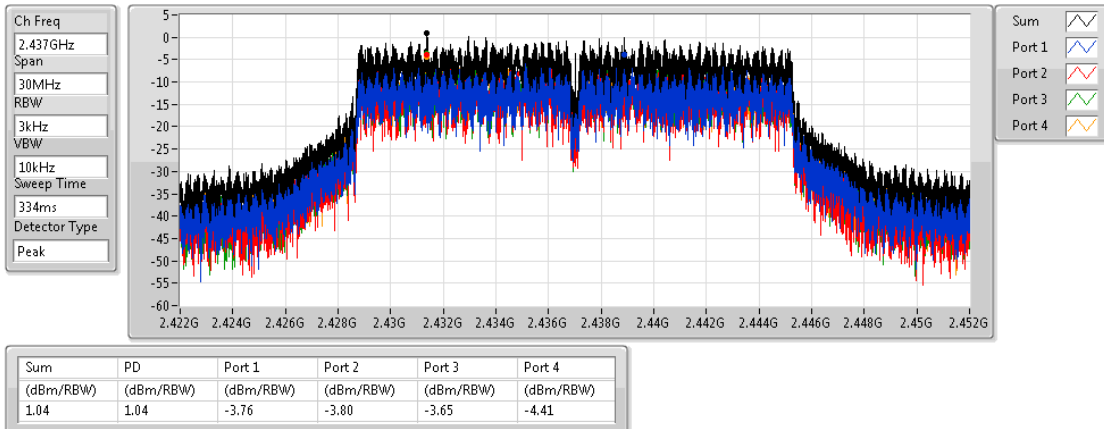
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802.11g_(6Mbps)_4TX

PSD

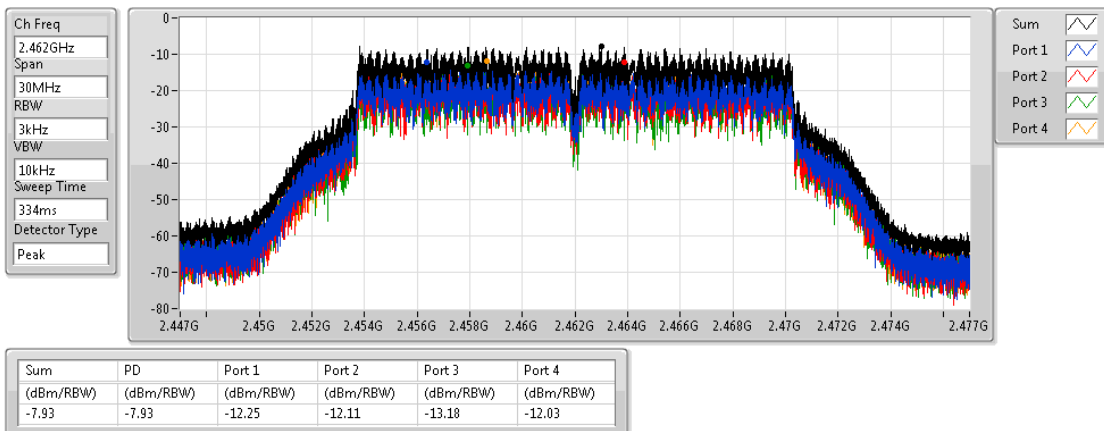
2437MHz



802.11g_(6Mbps)_4TX

PSD

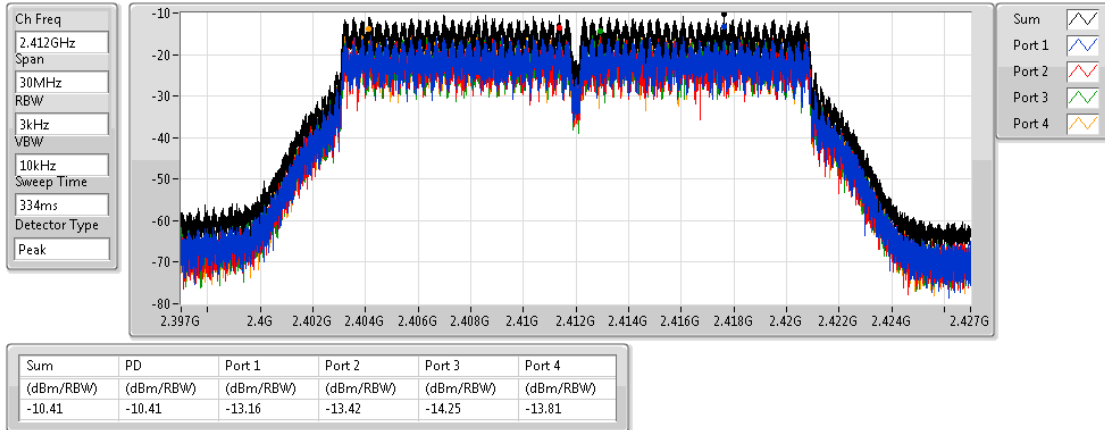
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802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

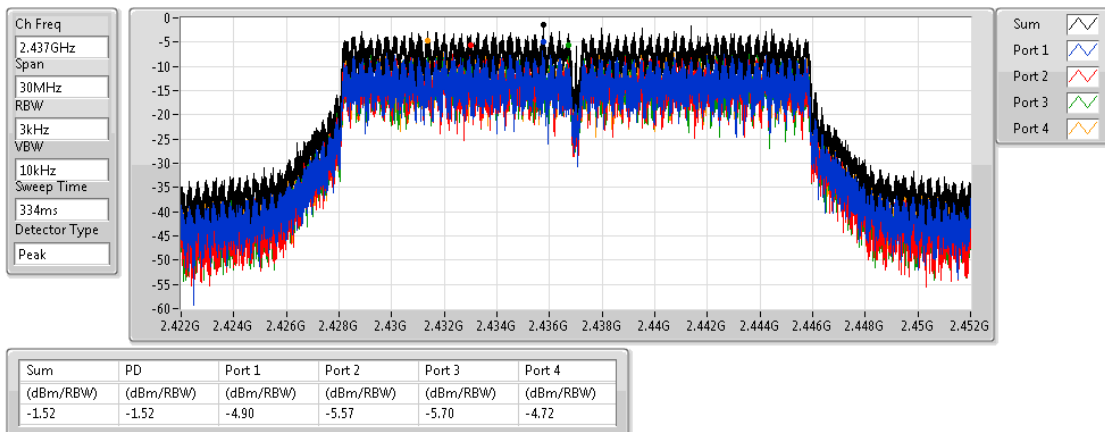
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802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

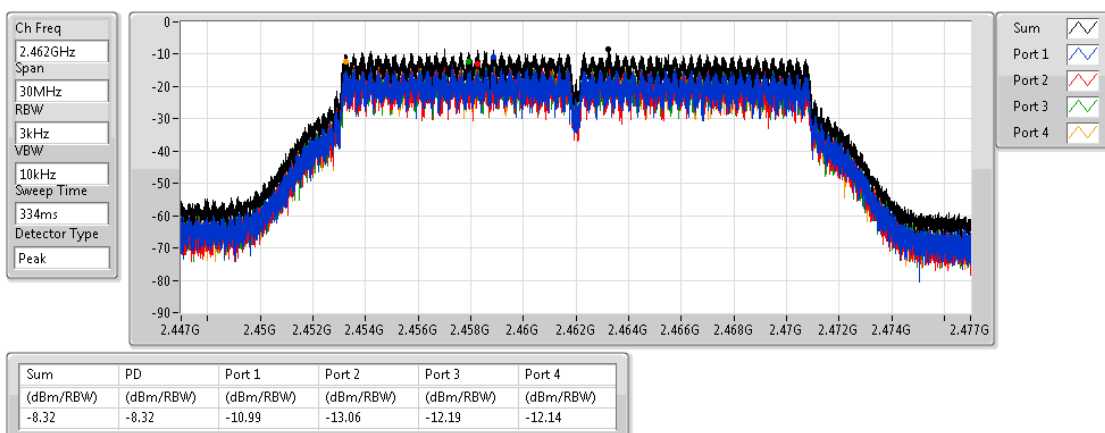
2437MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

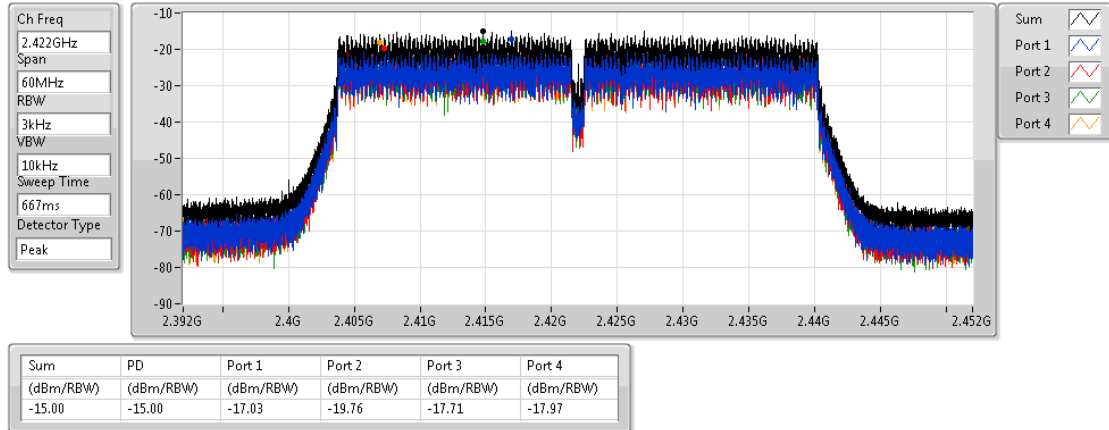
2462MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

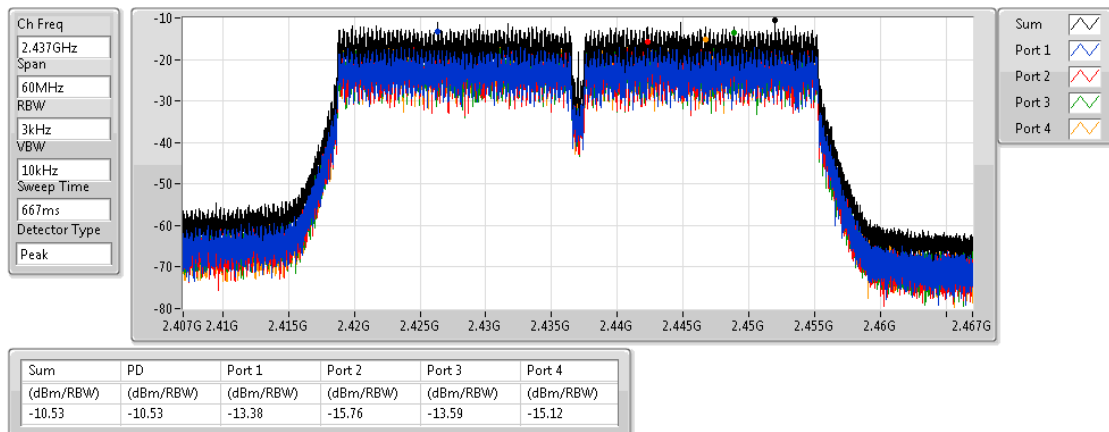
2422MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

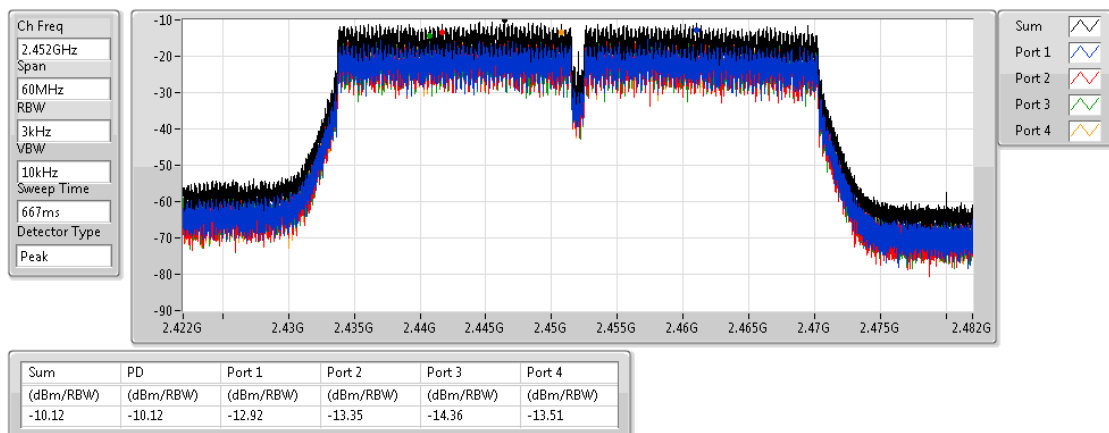
2437MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

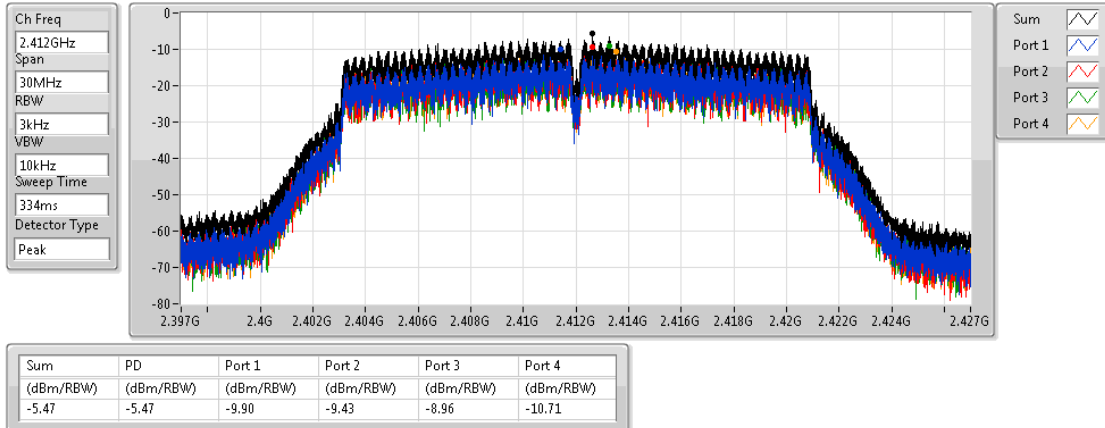
2452MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

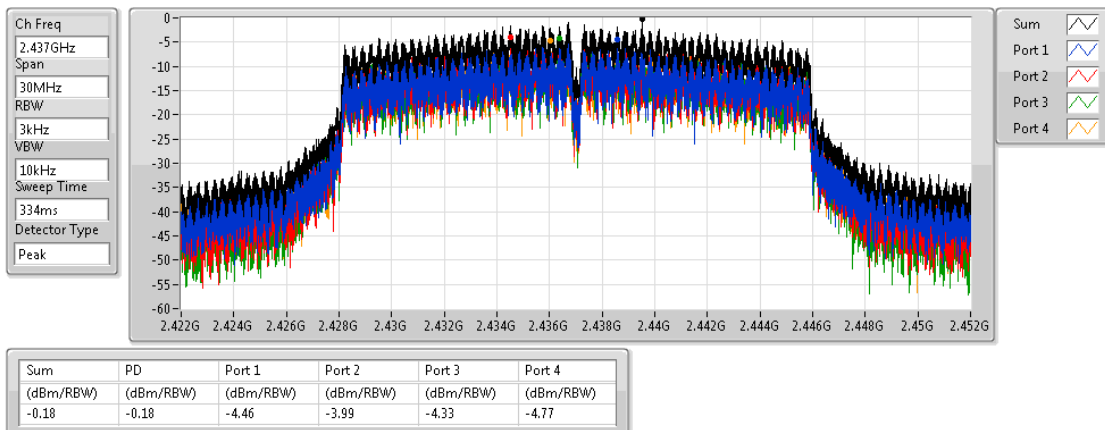
2412MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

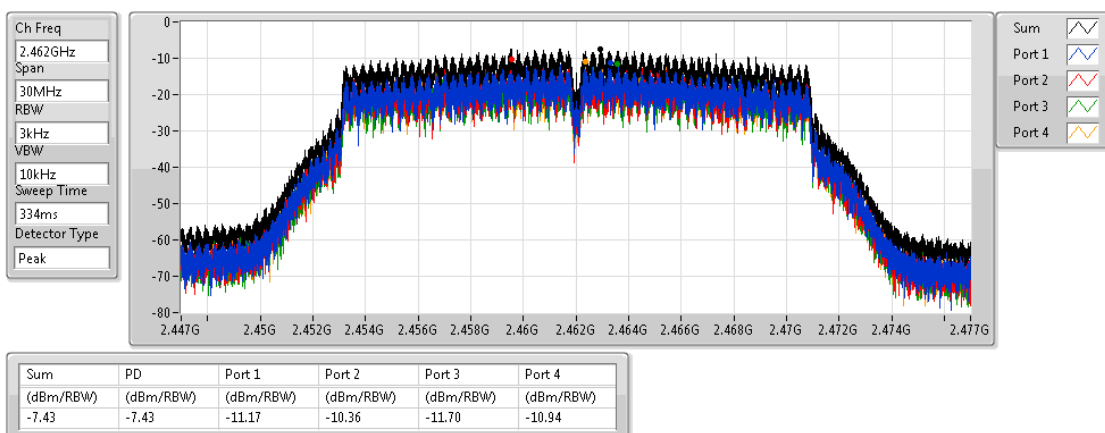
2437MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

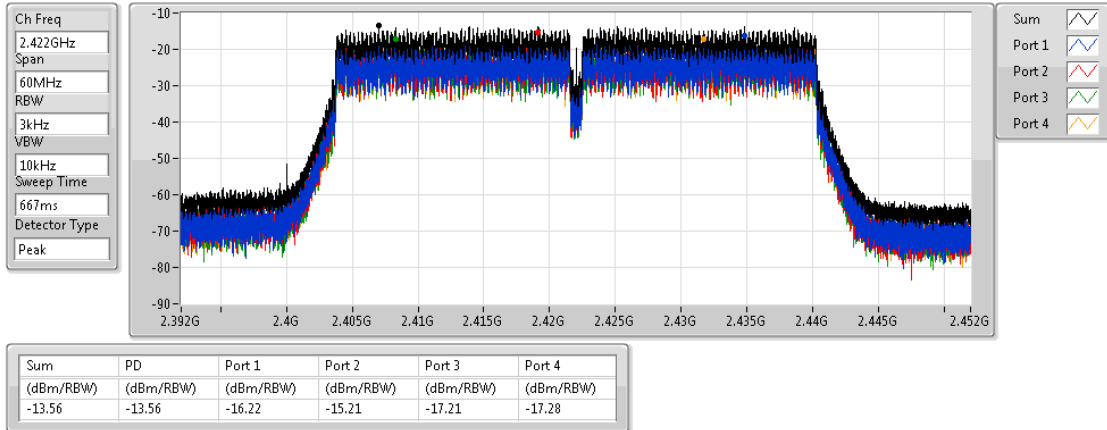
2462MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

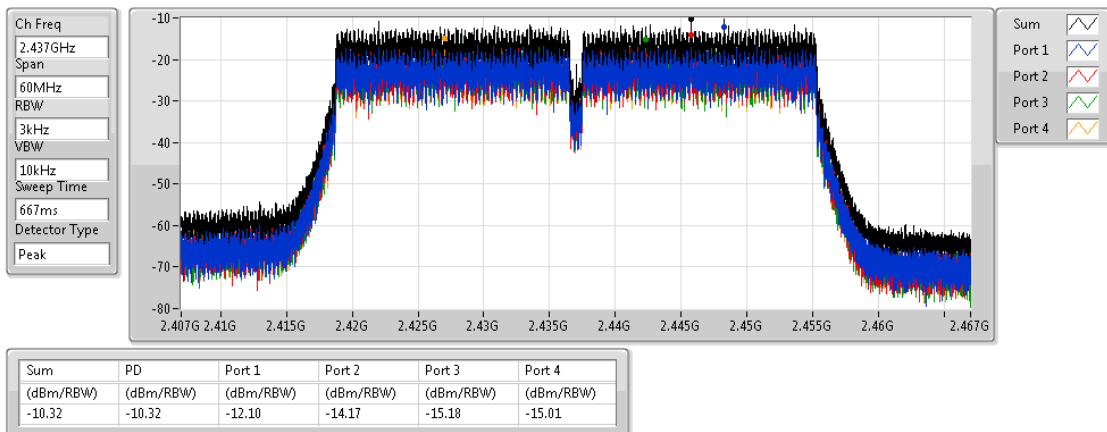
2422MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

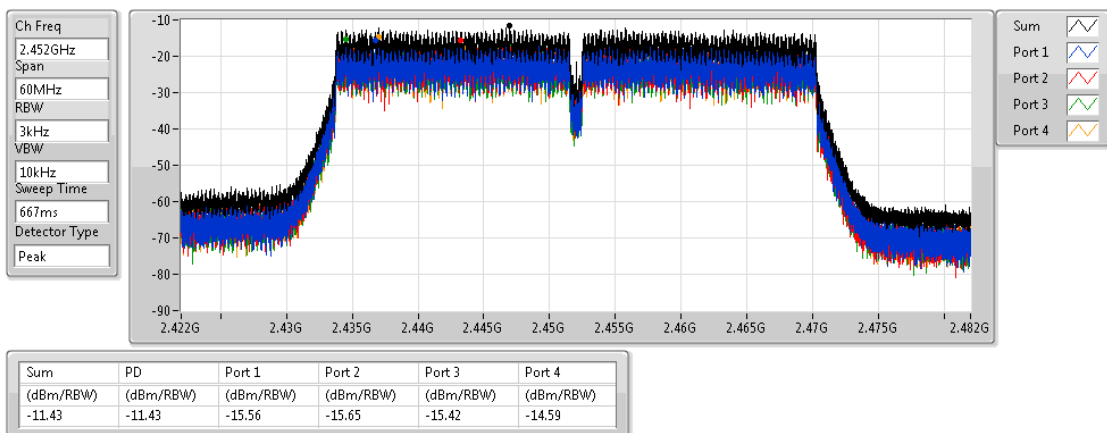
2437MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

2452MHz



For Mode 2 (Antenna Set 2 with Gray Cable):
Summary

Mode	PD (dBm/RBW)
802.11b_(1Mbps)_4TX	-
2.4-2.4835GHz	2.55
802.11g_(6Mbps)_4TX	-
2.4-2.4835GHz	1.90
802.11ac VHT20_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	0.50
802.11ac VHT40_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	-6.78
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	0.85
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	-6.49

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.62	-2.51	-2.32	-1.82	-0.70	1.85	7.38
2437MHz	Pass	6.62	-1.28	-2.45	-2.36	-1.96	1.66	7.38
2462MHz	Pass	6.62	-1.09	-2.00	-1.54	-1.08	2.55	7.38
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.62	-6.24	-6.16	-5.31	-5.23	0.11	7.38
2437MHz	Pass	6.62	-4.05	-3.67	-2.83	-3.17	1.90	7.38
2462MHz	Pass	6.62	-7.36	-8.31	-7.20	-6.89	-1.79	7.38
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.62	-8.70	-9.59	-8.66	-9.46	-5.05	7.38
2437MHz	Pass	6.62	-2.94	-2.68	-3.57	-3.22	0.50	7.38
2462MHz	Pass	6.62	-7.40	-9.31	-9.13	-7.61	-4.51	7.38
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	6.62	-10.00	-11.95	-11.48	-11.49	-7.39	7.38
2437MHz	Pass	6.62	-10.52	-10.55	-9.82	-10.21	-6.78	7.38
2452MHz	Pass	6.62	-11.18	-10.75	-10.91	-9.54	-6.82	7.38
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	6.62	-6.35	-6.86	-7.60	-6.44	-2.50	7.38
2437MHz	Pass	6.62	-4.46	-3.99	-4.33	-4.77	0.85	7.38
2462MHz	Pass	6.62	-5.68	-4.72	-6.47	-5.53	-0.70	7.38
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	6.62	-12.33	-12.13	-11.86	-11.94	-7.62	7.38
2437MHz	Pass	6.62	-10.55	-11.38	-12.10	-9.91	-6.49	7.38
2452MHz	Pass	6.62	-11.48	-12.35	-12.55	-11.56	-7.19	7.38

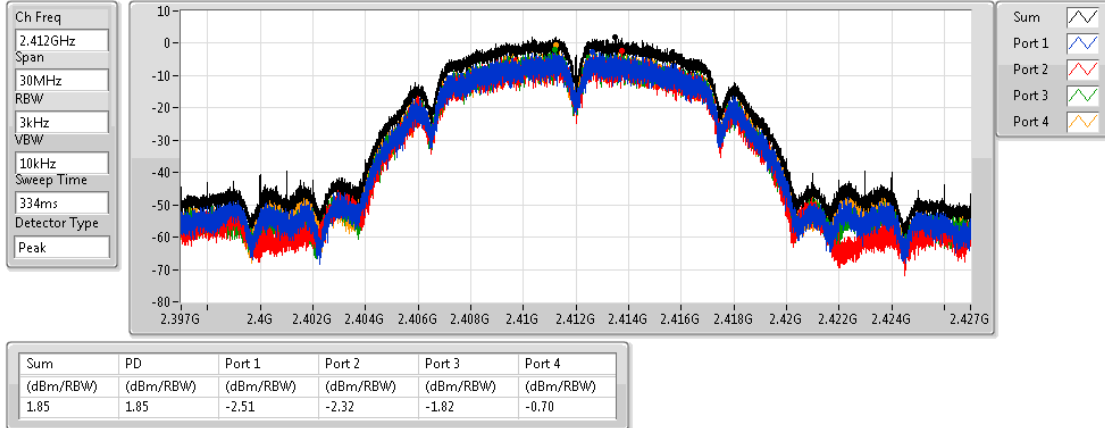
DG = Directional Gain; RBW=3kHz;

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

802.11b_(1Mbps)_4TX

PSD

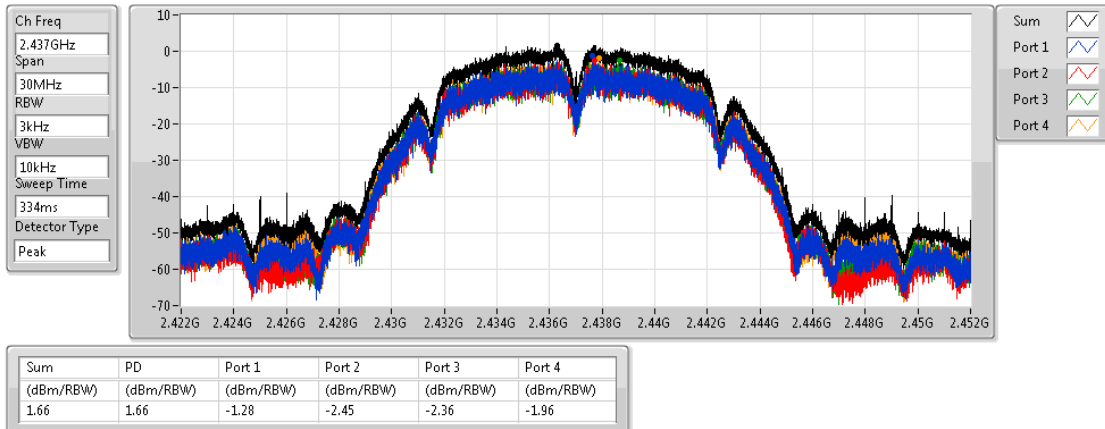
2412MHz



802.11b_(1Mbps)_4TX

PSD

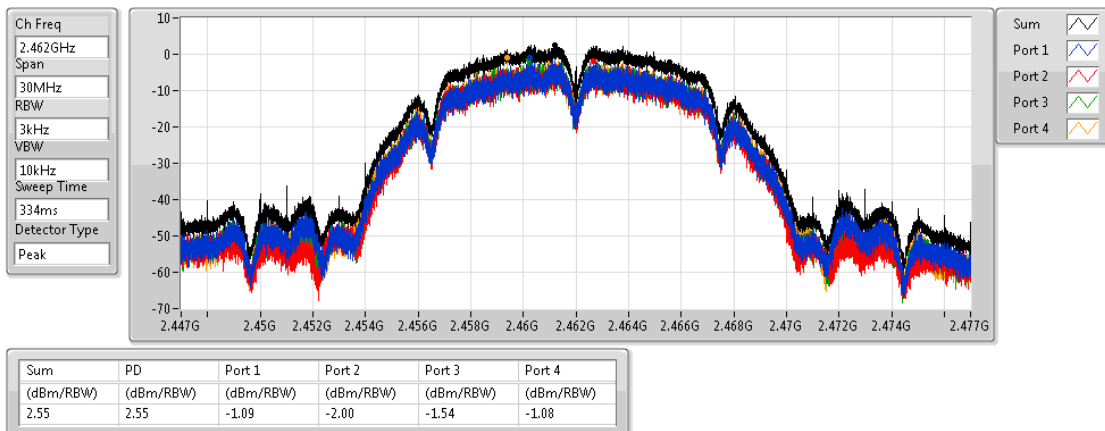
2437MHz



802.11b_(1Mbps)_4TX

PSD

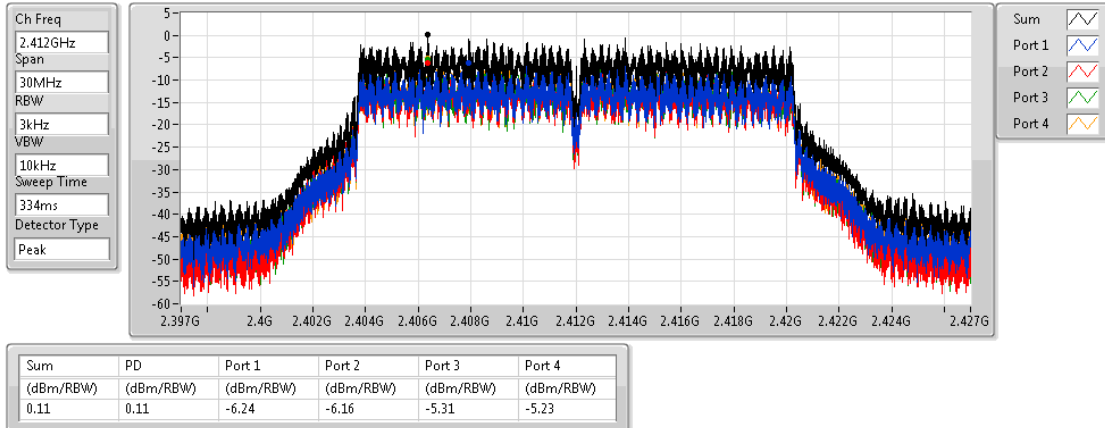
2462MHz



802.11g_(6Mbps)_4TX

PSD

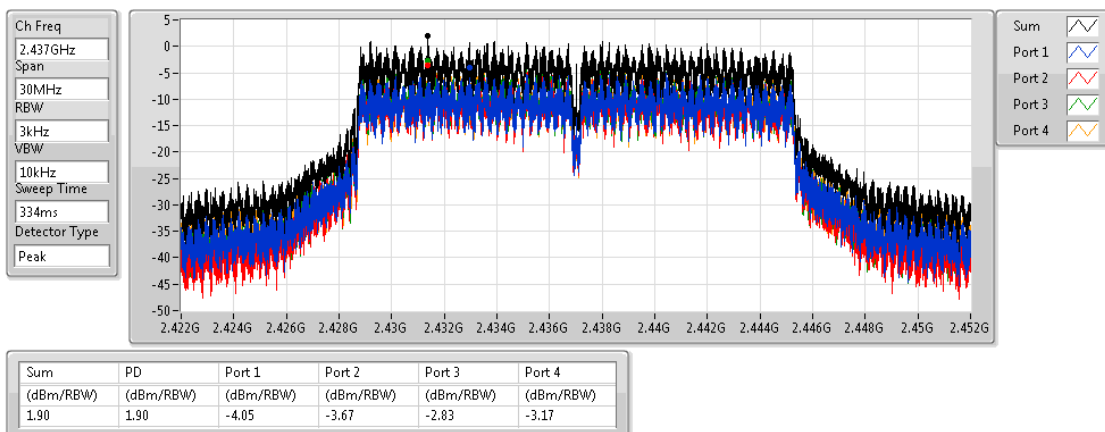
2412MHz



802.11g_(6Mbps)_4TX

PSD

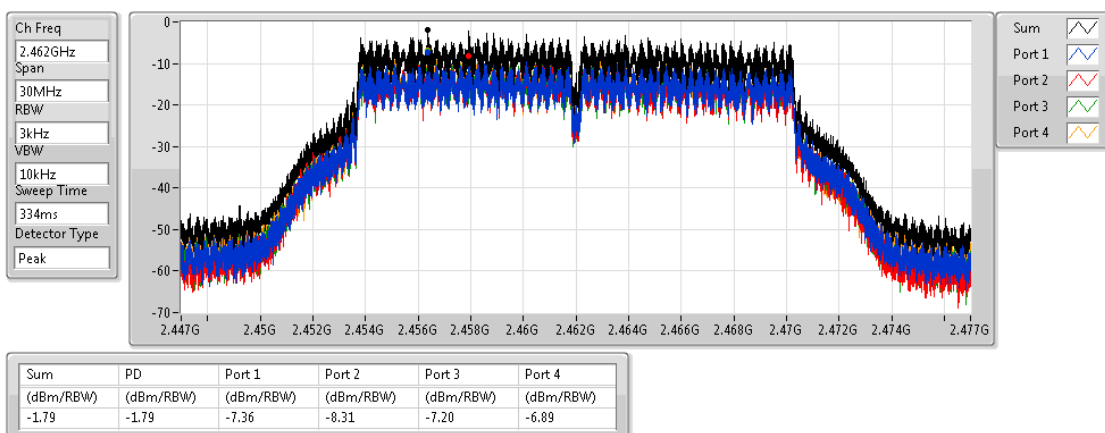
2437MHz



802.11g_(6Mbps)_4TX

PSD

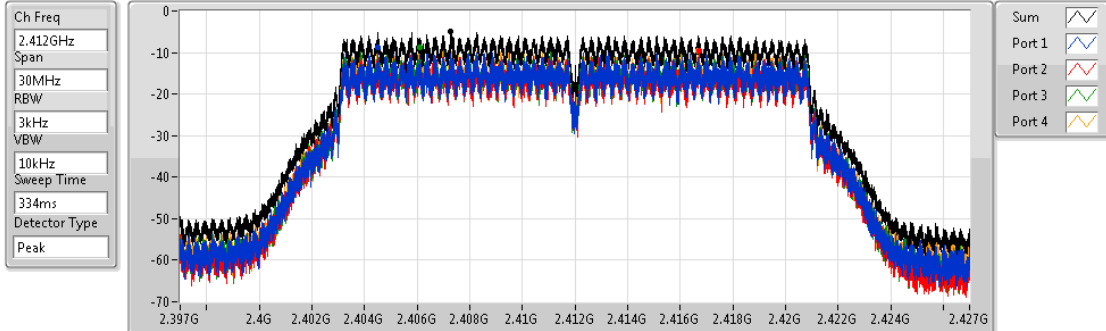
2462MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

2412MHz

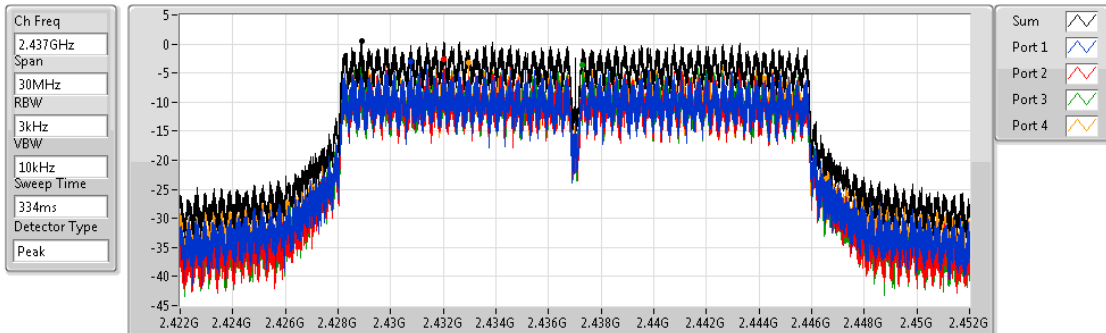


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.05	-5.05	-8.70	-9.59	-8.66	-9.46

802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

2437MHz

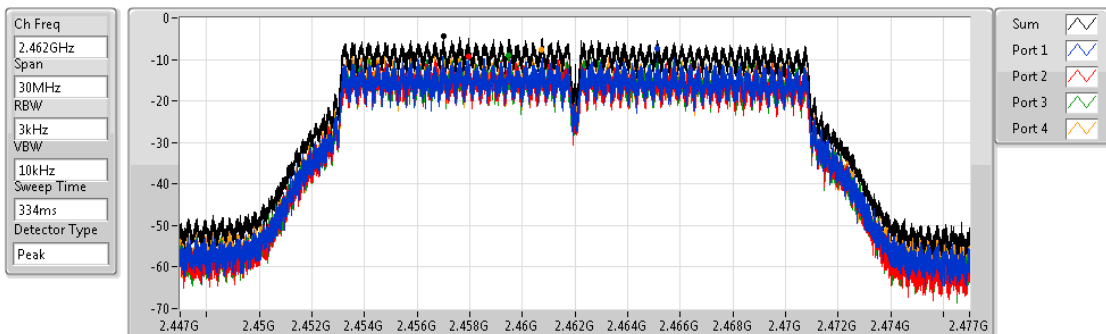


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.50	0.50	-2.94	-2.68	-3.57	-3.22

802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

2462MHz

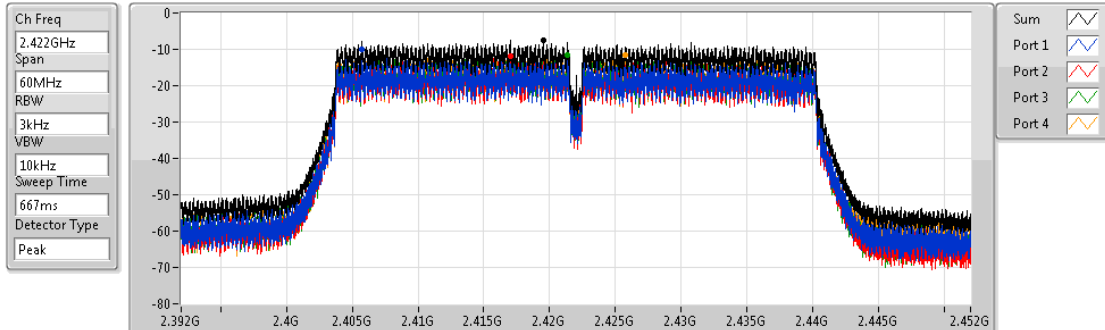


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.51	-4.51	-7.40	-9.31	-9.13	-7.61

802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

2422MHz

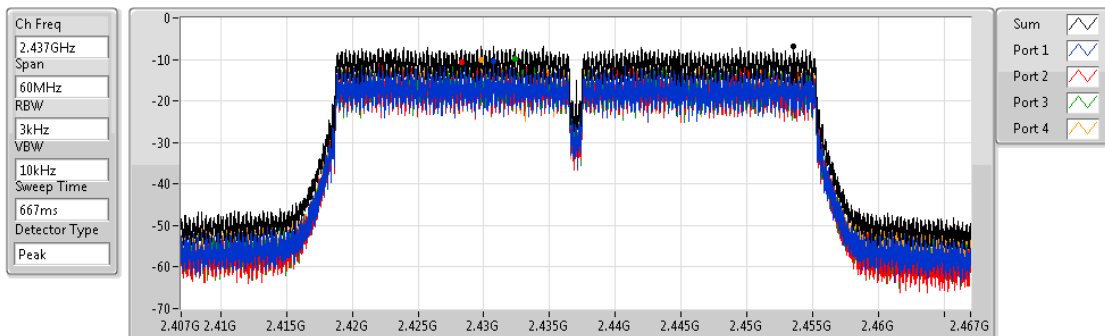


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.39	-7.39	-10.00	-11.95	-11.48	-11.49

802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

2437MHz

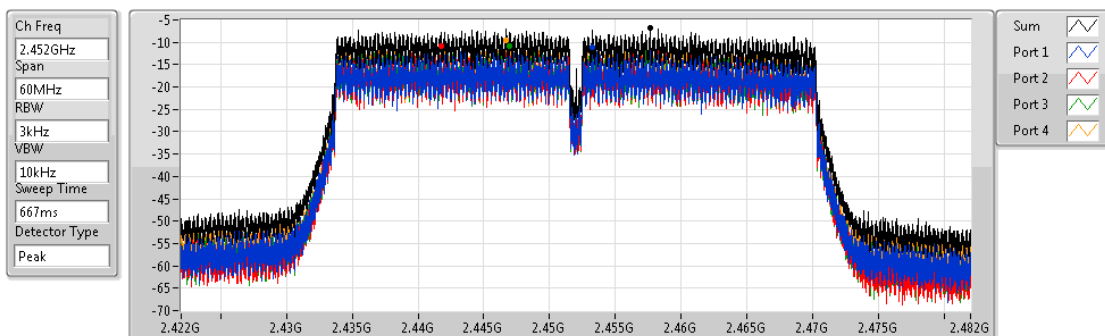


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-6.78	-6.78	-10.52	-10.55	-9.82	-10.21

802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

2452MHz

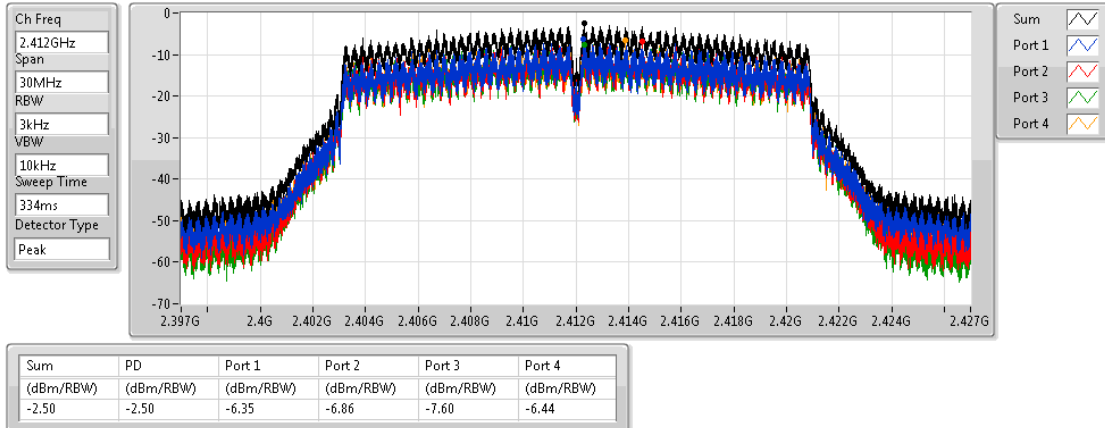


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-6.82	-6.82	-11.18	-10.75	-10.91	-9.54

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

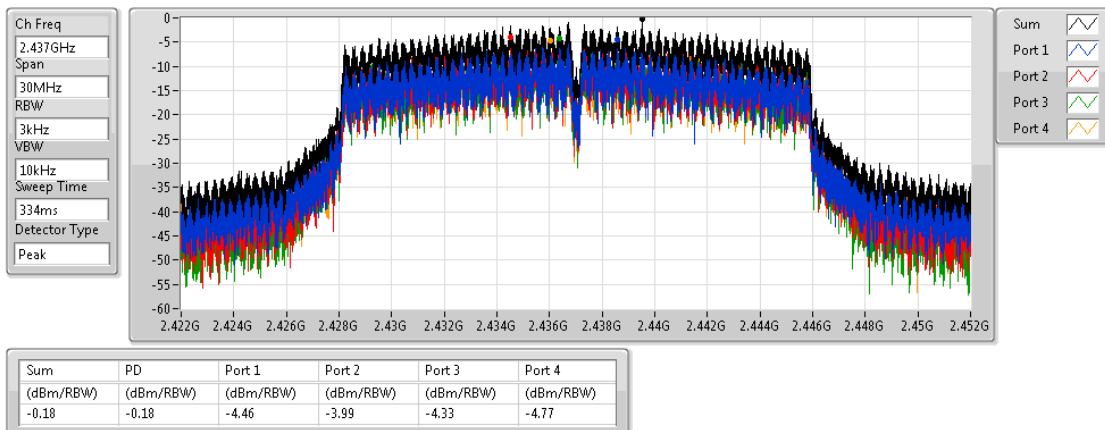
2412MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

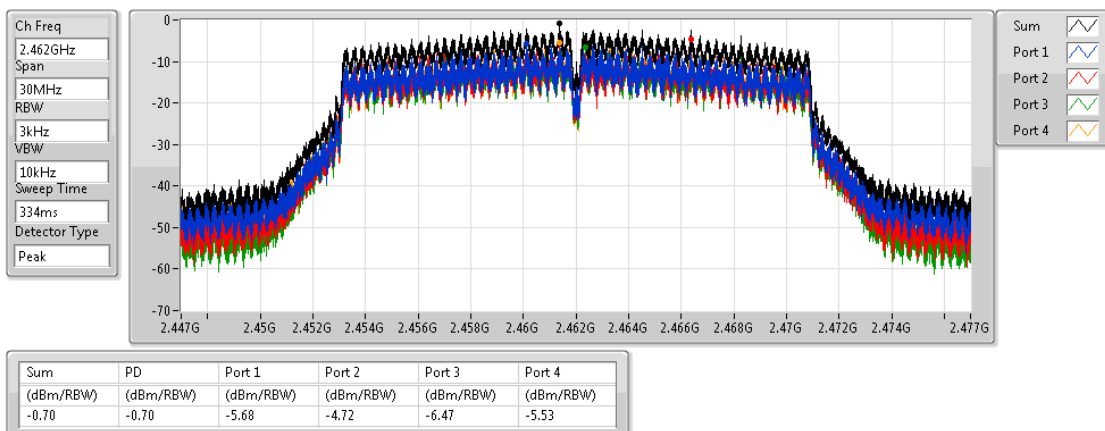
2437MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

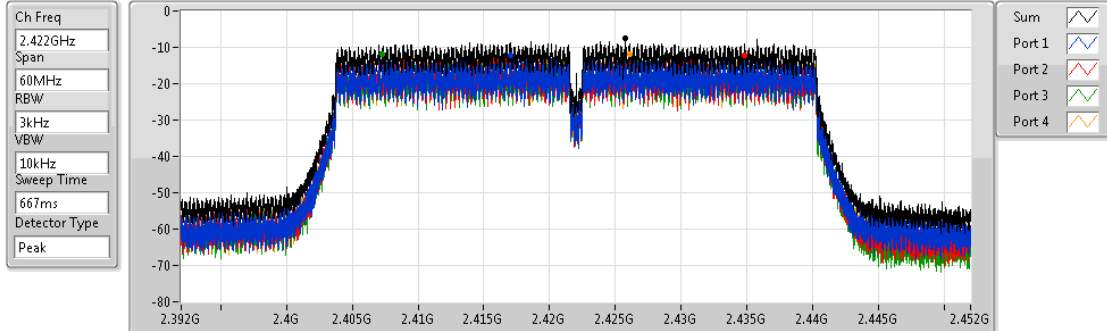
2462MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

2422MHz

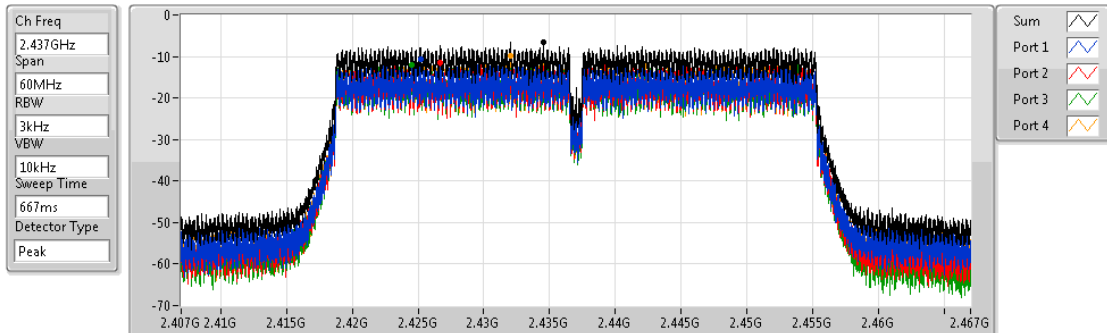


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.62	-7.62	-12.33	-12.13	-11.86	-11.94

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

2437MHz

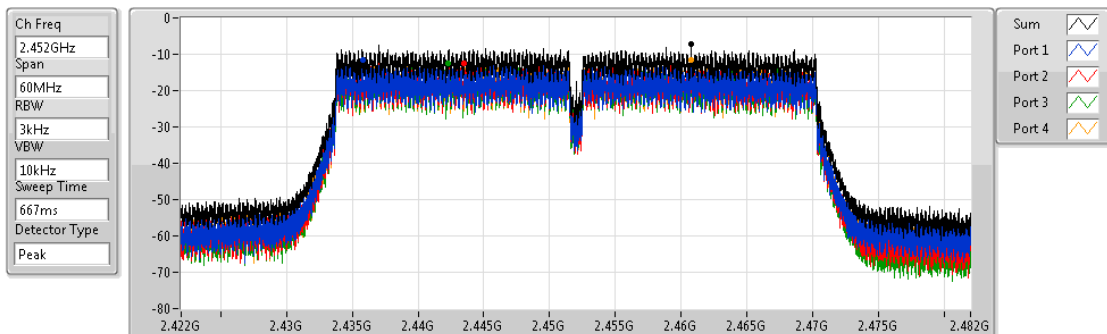


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-6.49	-6.49	-10.55	-11.38	-12.10	-9.91

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

2452MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.19	-7.19	-11.48	-12.35	-12.55	-11.56



For Mode 1 (Antenna Set 1): 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
802.11ac VHT40_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	2.454609G	0.35	-29.65	49.465M	-54.17	2.39952G	-42.57	2.48718G	-54.01	24.750394G	-53.54	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
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.438076G	11.80	-18.20	83.59M	-58.66	2.39752G	-41.84	2.48734G	-52.51	7.235136G	-53.59	1
2412MHz	Pass	2.438076G	11.80	-18.20	49.805M	-60.53	2.398G	-42.64	2.48734G	-53.34	16.708981G	-53.71	2
2412MHz	Pass	2.438076G	11.80	-18.20	83.59M	-61.18	2.39904G	-41.92	2.48734G	-56.65	16.770791G	-54.19	3
2412MHz	Pass	2.438076G	11.80	-18.20	49.805M	-60.83	2.39904G	-41.22	2.48734G	-54.37	24.749949G	-53.64	4
2437MHz	Pass	2.438076G	11.80	-18.20	87.085M	-60.60	2.39784G	-51.36	2.51318G	-54.29	16.65279G	-53.44	1
2437MHz	Pass	2.438076G	11.80	-18.20	84.755M	-60.65	2.3996G	-51.95	2.51318G	-55.49	24.887618G	-53.78	2
2437MHz	Pass	2.438076G	11.80	-18.20	49.805M	-61.59	2.3968G	-51.82	2.48486G	-55.73	24.738711G	-53.59	3
2437MHz	Pass	2.438076G	11.80	-18.20	99.9M	-52.05	2.39944G	-52.10	2.51318G	-54.03	21.867338G	-53.87	4
2462MHz	Pass	2.438076G	11.80	-18.20	87.085M	-60.24	2.398G	-55.90	2.48486G	-46.46	16.354976G	-53.48	1
2462MHz	Pass	2.438076G	11.80	-18.20	47.475M	-61.46	2.39976G	-56.38	2.48374G	-47.43	24.401563G	-53.99	2
2462MHz	Pass	2.438076G	11.80	-18.20	47.475M	-59.87	2.3904G	-55.75	2.48478G	-47.83	21.437475G	-52.78	3
2462MHz	Pass	2.438076G	11.80	-18.20	87.085M	-61.08	2.3992G	-56.59	2.48598G	-47.30	16.725838G	-53.87	4
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.439412G	9.82	-20.18	49.805M	-54.81	2.39992G	-41.12	2.48742G	-56.59	21.561096G	-53.77	1
2412MHz	Pass	2.439412G	9.82	-20.18	49.805M	-54.42	2.3992G	-42.08	2.48734G	-56.34	24.926951G	-54.05	2
2412MHz	Pass	2.439412G	9.82	-20.18	49.805M	-55.32	2.39952G	-40.61	2.48734G	-53.81	24.494279G	-54.43	3
2412MHz	Pass	2.439412G	9.82	-20.18	49.805M	-55.27	2.39824G	-43.62	2.48734G	-54.07	16.666838G	-53.37	4
2437MHz	Pass	2.439412G	9.82	-20.18	49.805M	-55.28	2.39992G	-41.08	2.48478G	-48.61	24.561708G	-53.73	1
2437MHz	Pass	2.439412G	9.82	-20.18	49.805M	-56.45	2.39984G	-42.86	2.48414G	-51.37	16.346548G	-53.59	2
2437MHz	Pass	2.439412G	9.82	-20.18	49.805M	-54.80	2.39872G	-43.21	2.48638G	-50.59	16.762363G	-53.73	3
2437MHz	Pass	2.439412G	9.82	-20.18	49.805M	-54.91	2.3996G	-41.80	2.48382G	-49.58	24.820188G	-53.38	4
2462MHz	Pass	2.439412G	9.82	-20.18	49.805M	-55.64	2.39992G	-58.24	2.4843G	-50.33	24.828617G	-53.77	1
2462MHz	Pass	2.439412G	9.82	-20.18	49.805M	-55.47	2.39536G	-58.17	2.48358G	-51.24	21.774622G	-53.74	2
2462MHz	Pass	2.439412G	9.82	-20.18	49.805M	-55.33	2.39816G	-58.61	2.4867G	-52.07	24.842665G	-53.95	3
2462MHz	Pass	2.439412G	9.82	-20.18	49.805M	-55.15	2.39128G	-59.01	2.48582G	-49.57	16.770791G	-53.81	4
802.11ac VHT20_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.430728G	9.48	-20.52	49.805M	-54.57	2.39984G	-42.37	2.48734G	-54.80	23.421026G	-53.91	1
2412MHz	Pass	2.430728G	9.48	-20.52	49.805M	-53.63	2.39992G	-44.87	2.48734G	-59.39	21.482428G	-53.46	2
2412MHz	Pass	2.430728G	9.48	-20.52	49.805M	-54.04	2.39992G	-44.09	2.48734G	-58.64	21.454332G	-54.13	3
2412MHz	Pass	2.430728G	9.48	-20.52	49.805M	-54.50	2.39992G	-43.60	2.48742G	-55.30	21.738098G	-53.42	4
2437MHz	Pass	2.430728G	9.48	-20.52	49.805M	-54.26	2.39984G	-42.42	2.48374G	-48.43	16.686505G	-54.12	1
2437MHz	Pass	2.430728G	9.48	-20.52	49.805M	-54.52	2.39984G	-43.33	2.4867G	-53.34	24.505517G	-53.99	2
2437MHz	Pass	2.430728G	9.48	-20.52	49.805M	-54.23	2.39896G	-43.52	2.48702G	-53.17	21.760574G	-53.27	3
2437MHz	Pass	2.430728G	9.48	-20.52	49.805M	-54.55	2.39968G	-43.02	2.48414G	-48.57	16.377453G	-54.07	4
2462MHz	Pass	2.430728G	9.48	-20.52	49.805M	-53.21	2.39816G	-58.01	2.48438G	-49.58	16.737077G	-53.40	1
2462MHz	Pass	2.430728G	9.48	-20.52	49.805M	-53.82	2.39632G	-58.95	2.48462G	-51.55	16.377453G	-53.77	2
2462MHz	Pass	2.430728G	9.48	-20.52	49.805M	-54.98	2.39208G	-59.73	2.4851G	-51.84	16.71741G	-52.98	3
2462MHz	Pass	2.430728G	9.48	-20.52	49.805M	-54.10	2.3956G	-58.29	2.48478G	-50.97	16.77922G	-53.20	4
802.11ac VHT40_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.454609G	0.35	-29.65	49.465M	-54.62	2.39712G	-49.50	2.49198G	-58.60	16.763G	-53.00	1
2422MHz	Pass	2.454609G	0.35	-29.65	49.465M	-54.92	2.3992G	-49.55	2.49502G	-59.18	16.757391G	-54.22	2



CSE Non-restricted Band Result

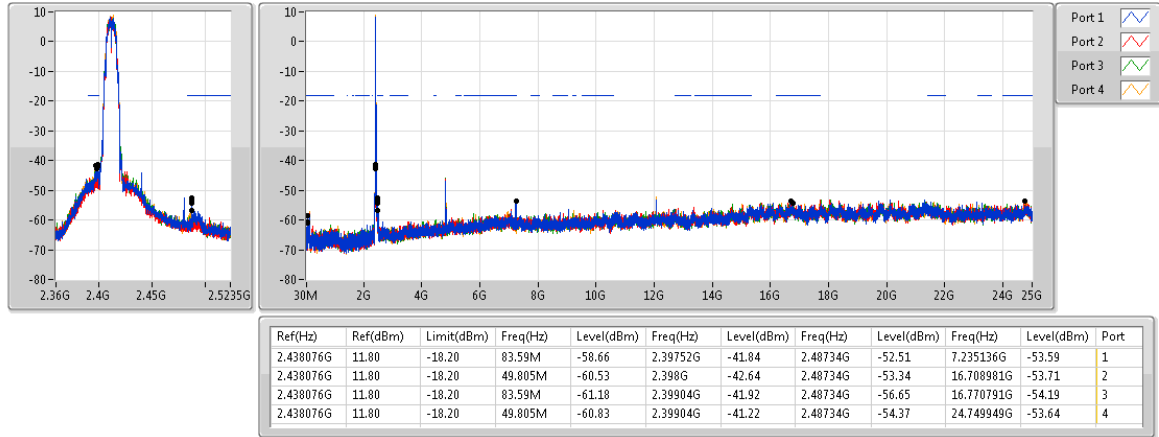
Appendix E

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
2422MHz	Pass	2.454609G	0.35	-29.65	49.465M	-54.70	2.39712G	-48.22	2.48526G	-58.70	24.744785G	-53.21	3
2422MHz	Pass	2.454609G	0.35	-29.65	49.465M	-55.30	2.3992G	-49.31	2.4923G	-59.16	24.814899G	-54.31	4
2437MHz	Pass	2.454609G	0.35	-29.65	49.465M	-54.17	2.39952G	-42.57	2.48718G	-54.01	24.750394G	-53.54	1
2437MHz	Pass	2.454609G	0.35	-29.65	49.465M	-55.49	2.39952G	-44.15	2.49038G	-54.77	16.967733G	-54.08	2
2437MHz	Pass	2.454609G	0.35	-29.65	49.465M	-55.86	2.39968G	-42.76	2.48766G	-54.34	16.737759G	-54.12	3
2437MHz	Pass	2.454609G	0.35	-29.65	49.465M	-55.43	2.39984G	-45.88	2.48414G	-52.71	17.40244G	-52.80	4
2452MHz	Pass	2.454609G	0.35	-29.65	49.465M	-55.41	2.39888G	-50.07	2.48798G	-49.78	16.746173G	-53.22	1
2452MHz	Pass	2.454609G	0.35	-29.65	49.465M	-54.99	2.39648G	-50.38	2.48622G	-50.03	16.729345G	-53.97	2
2452MHz	Pass	2.454609G	0.35	-29.65	49.465M	-55.54	2.39952G	-49.69	2.48382G	-49.17	17.699724G	-53.38	3
2452MHz	Pass	2.454609G	0.35	-29.65	49.465M	-55.57	2.39952G	-50.70	2.48414G	-46.63	24.080104G	-53.77	4
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.435738G	10.31	-19.69	1.9872G	-62.83	2.39928G	-39.18	2.48734G	-52.29	16.821364G	-54.52	1
2412MHz	Pass	2.435738G	10.31	-19.69	83.59M	-62.12	2.39712G	-40.82	2.48734G	-51.39	16.301595G	-54.76	2
2412MHz	Pass	2.435738G	10.31	-19.69	904.915M	-62.96	2.39984G	-42.15	2.48734G	-54.45	17.68109G	-54.51	3
2412MHz	Pass	2.435738G	10.31	-19.69	828.025M	-63.59	2.39736G	-41.27	2.48734G	-58.52	17.68109G	-53.96	4
2437MHz	Pass	2.435738G	10.31	-19.69	76.6M	-61.63	2.39768G	-44.31	2.48414G	-51.60	17.658613G	-54.60	1
2437MHz	Pass	2.435738G	10.31	-19.69	68.445M	-60.26	2.39992G	-45.17	2.4839G	-50.87	17.346752G	-54.81	2
2437MHz	Pass	2.435738G	10.31	-19.69	70.775M	-61.14	2.3996G	-46.04	2.51318G	-53.42	16.26788G	-53.28	3
2437MHz	Pass	2.435738G	10.31	-19.69	66.115M	-62.13	2.39952G	-45.82	2.48502G	-52.92	24.218942G	-54.81	4
2462MHz	Pass	2.435738G	10.31	-19.69	75.435M	-62.05	2.39008G	-58.71	2.48374G	-48.94	16.234165G	-54.41	1
2462MHz	Pass	2.435738G	10.31	-19.69	75.435M	-62.18	2.39664G	-59.74	2.48422G	-53.29	17.343942G	-55.07	2
2462MHz	Pass	2.435738G	10.31	-19.69	829.19M	-62.96	2.39944G	-59.52	2.48606G	-51.17	17.644565G	-55.00	3
2462MHz	Pass	2.435738G	10.31	-19.69	76.6M	-62.61	2.39032G	-59.55	2.48478G	-48.46	17.42261G	-54.83	4
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.441917G	-0.80	-30.80	90.685M	-61.32	2.39872G	-47.77	2.4867G	-56.88	17.680092G	-54.30	1
2422MHz	Pass	2.441917G	-0.80	-30.80	75.8M	-62.10	2.39712G	-45.35	2.48478G	-57.70	16.440475G	-53.90	2
2422MHz	Pass	2.441917G	-0.80	-30.80	75.8M	-62.60	2.39712G	-44.88	2.49422G	-58.63	24.368973G	-53.35	3
2422MHz	Pass	2.441917G	-0.80	-30.80	75.8M	-62.35	2.39936G	-47.68	2.49086G	-56.60	16.347925G	-54.63	4
2437MHz	Pass	2.441917G	-0.80	-30.80	78.09M	-62.24	2.39968G	-45.00	2.48942G	-52.43	24.318491G	-54.61	1
2437MHz	Pass	2.441917G	-0.80	-30.80	75.8M	-62.12	2.39952G	-44.53	2.48782G	-55.09	16.437671G	-53.85	2
2437MHz	Pass	2.441917G	-0.80	-30.80	75.8M	-62.74	2.39968G	-47.45	2.48862G	-54.83	24.363364G	-54.68	3
2437MHz	Pass	2.441917G	-0.80	-30.80	76.945M	-61.55	2.39968G	-44.59	2.48542G	-54.66	17.688506G	-54.74	4
2452MHz	Pass	2.441917G	-0.80	-30.80	75.8M	-61.87	2.3992G	-52.76	2.4875G	-52.75	16.370361G	-54.23	1
2452MHz	Pass	2.441917G	-0.80	-30.80	76.945M	-61.93	2.39968G	-53.41	2.48398G	-52.97	17.556691G	-54.94	2
2452MHz	Pass	2.441917G	-0.80	-30.80	76.945M	-62.39	2.39984G	-54.97	2.48542G	-55.05	17.654851G	-54.38	3
2452MHz	Pass	2.441917G	-0.80	-30.80	75.8M	-61.18	2.39664G	-53.72	2.48606G	-54.13	17.668874G	-53.44	4

802.11b_(1Mbps)_4TX

CSE NdB

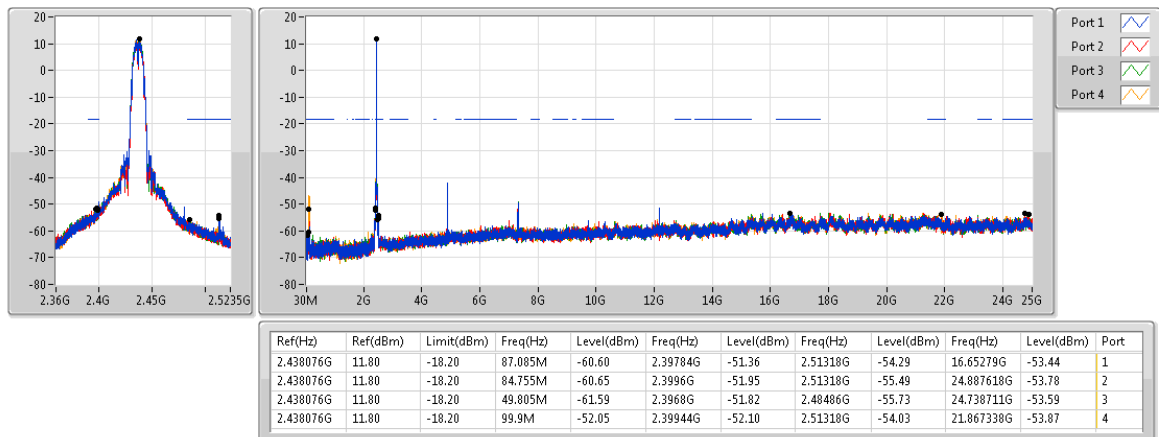
2412MHz



802.11b_(1Mbps)_4TX

CSE NdB

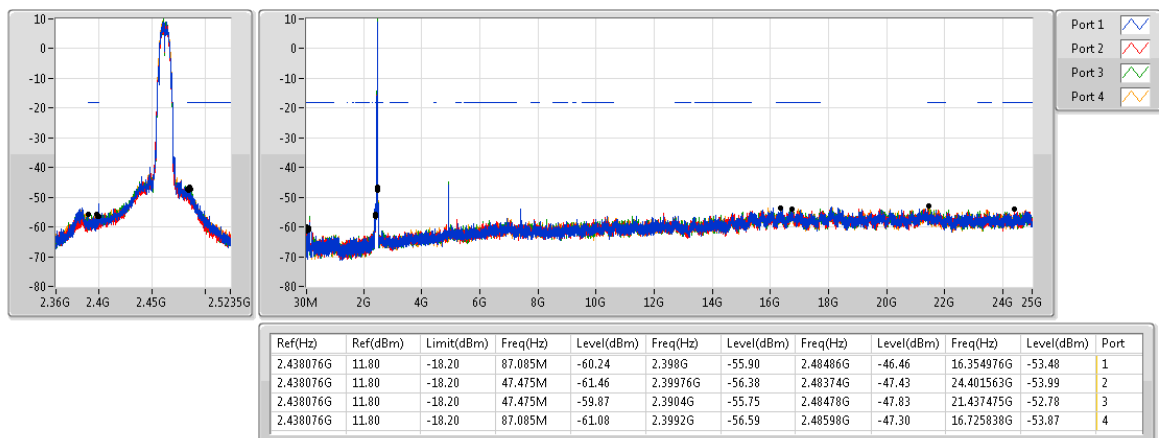
2437MHz



802.11b_(1Mbps)_4TX

CSE NdB

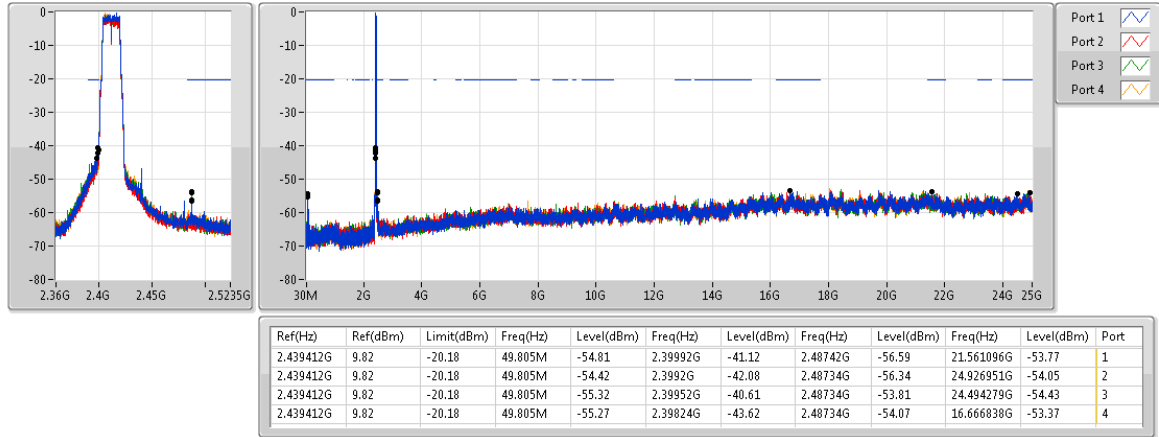
2462MHz



802.11g_(6Mbps)_4TX

CSE NdB

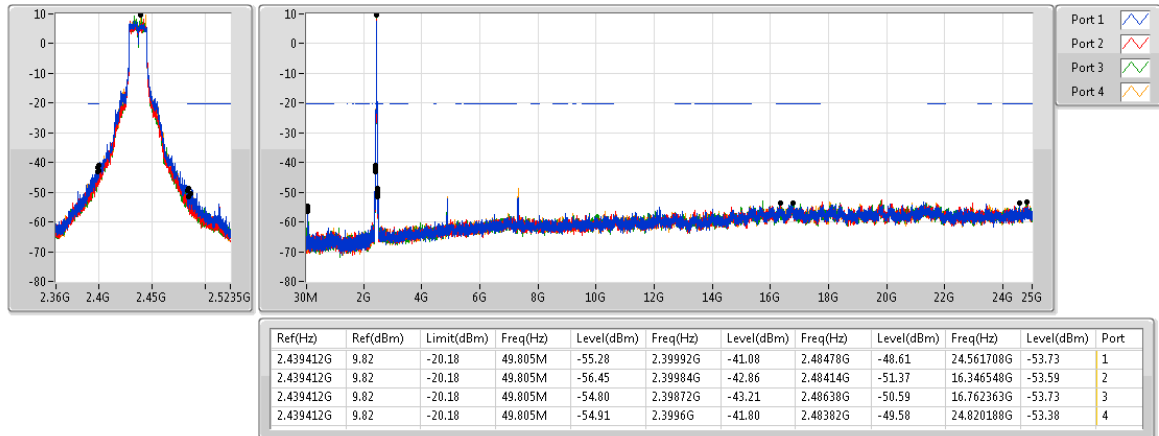
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802.11g_(6Mbps)_4TX

CSE NdB

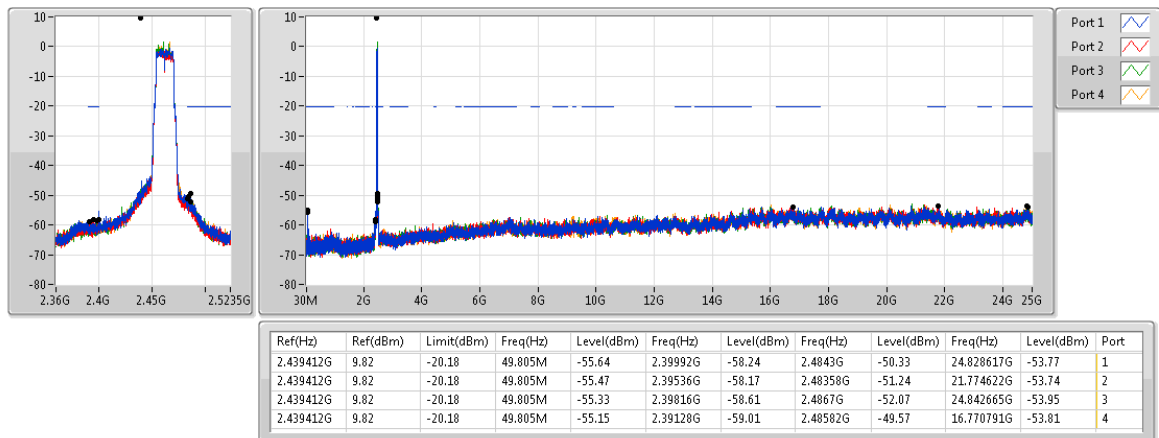
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802.11g_(6Mbps)_4TX

CSE NdB

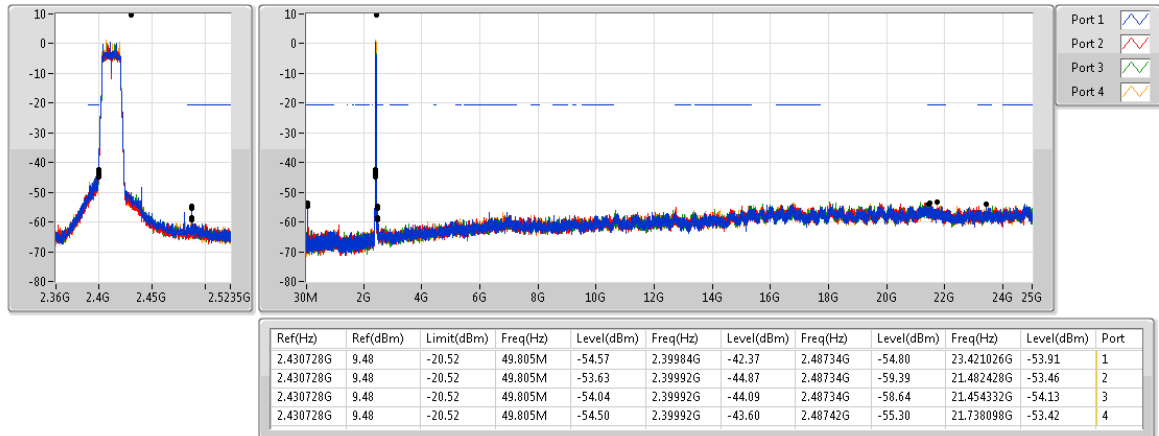
2462MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

CSE NdB

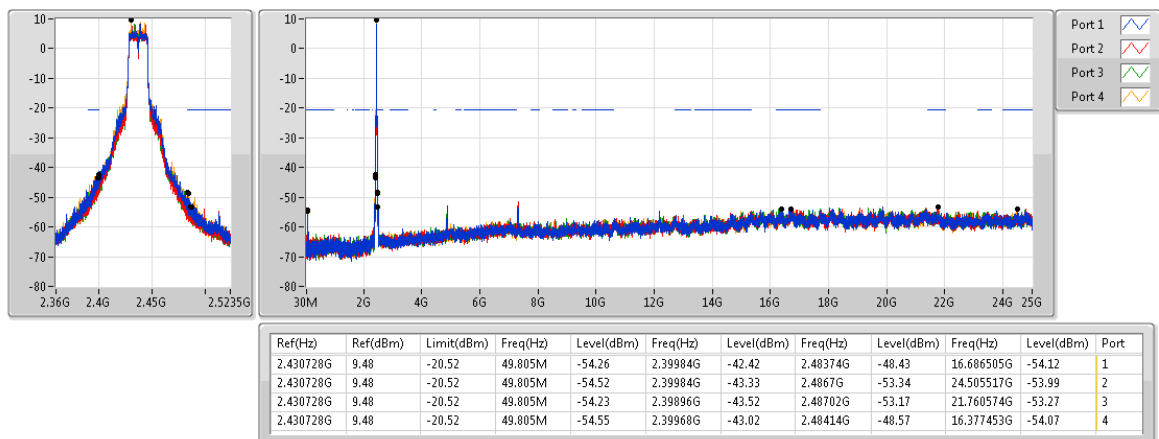
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802.11ac VHT20_Nss1,(MCS0)_4TX

CSE NdB

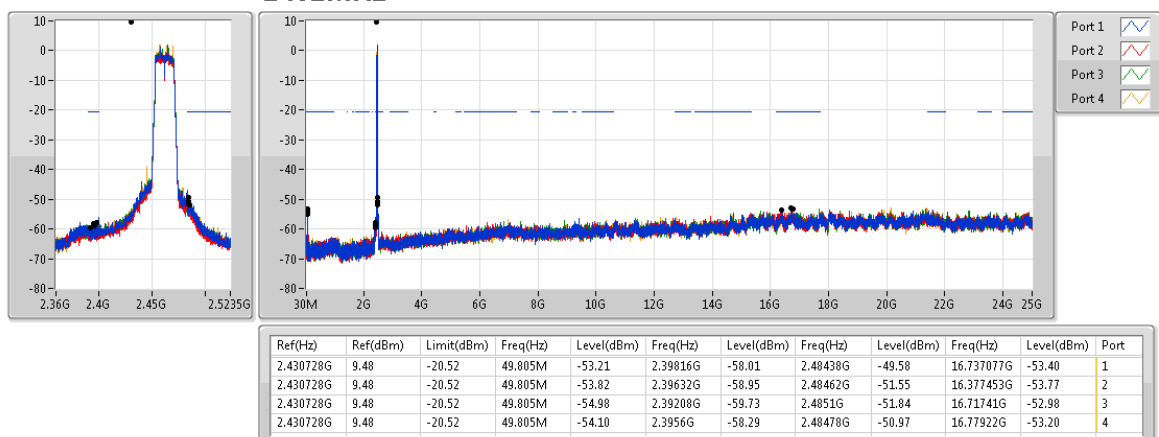
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802.11ac VHT20_Nss1,(MCS0)_4TX

CSE NdB

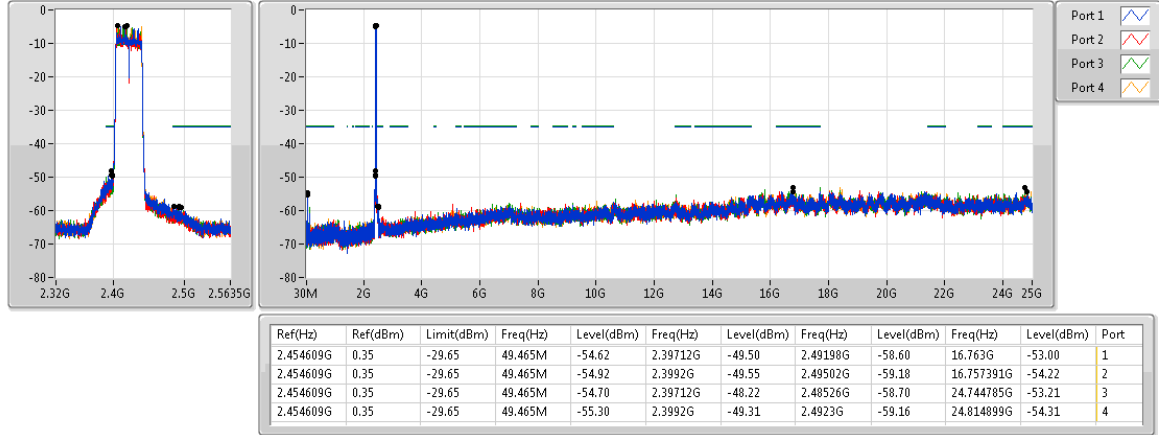
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802.11ac VHT40_Nss1,(MCS0)_4TX

CSE NdB

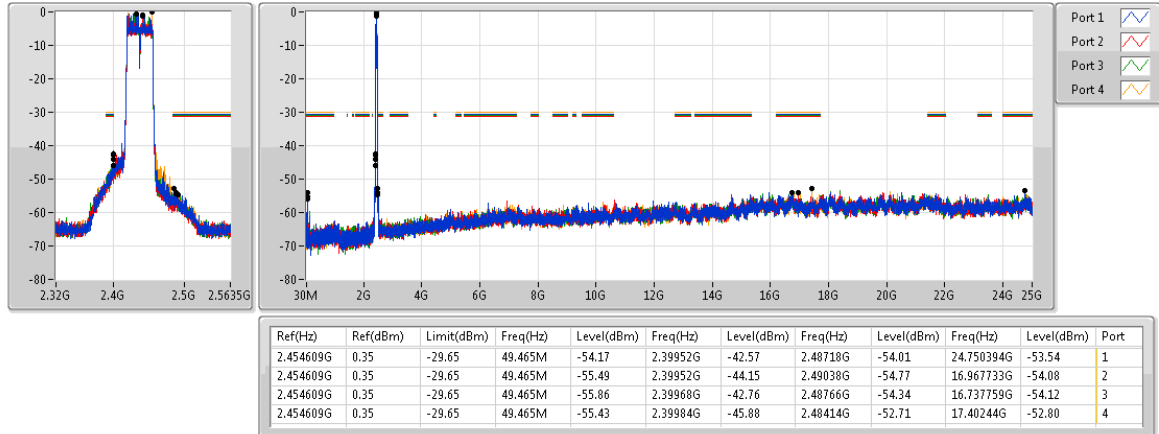
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802.11ac VHT40_Nss1,(MCS0)_4TX

CSE NdB

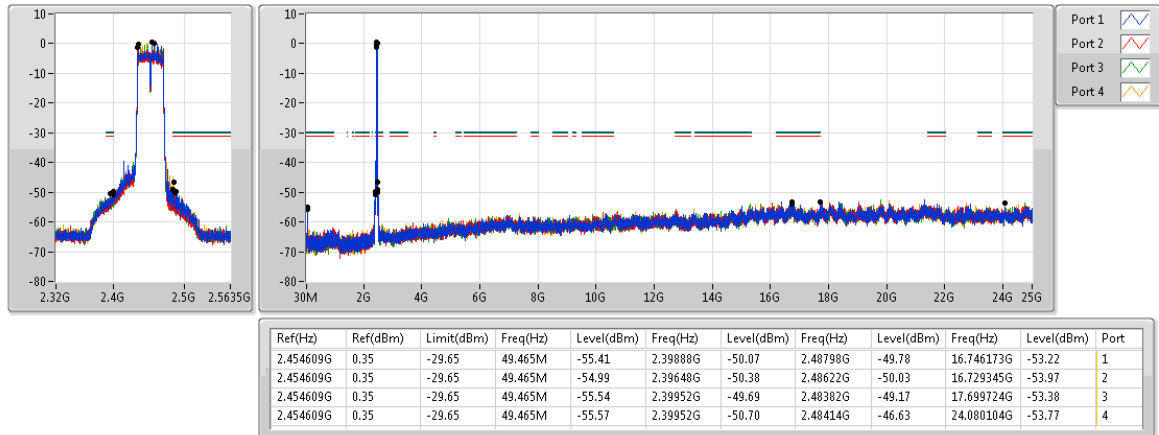
2437MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

CSE NdB

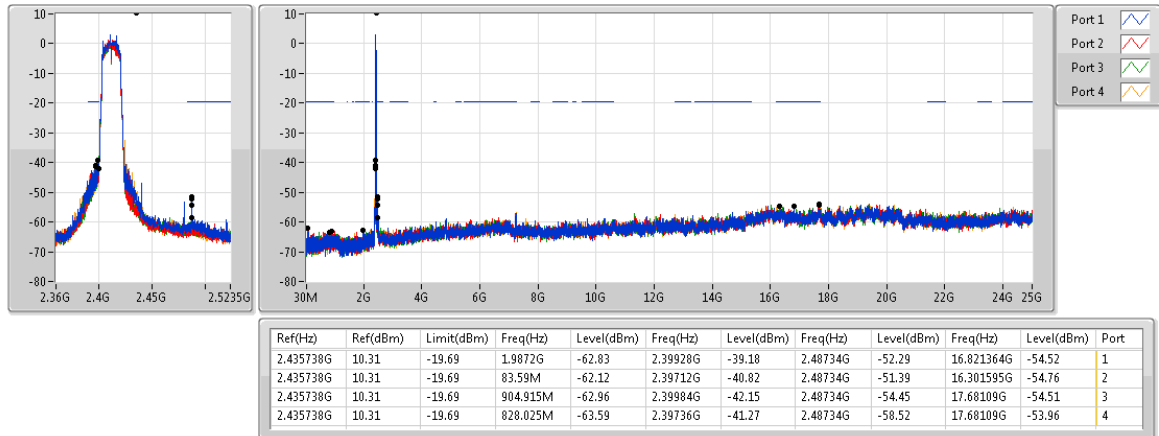
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802.11ac VHT20-BF_Nss1,(MCS0)_4TX

CSE NdB

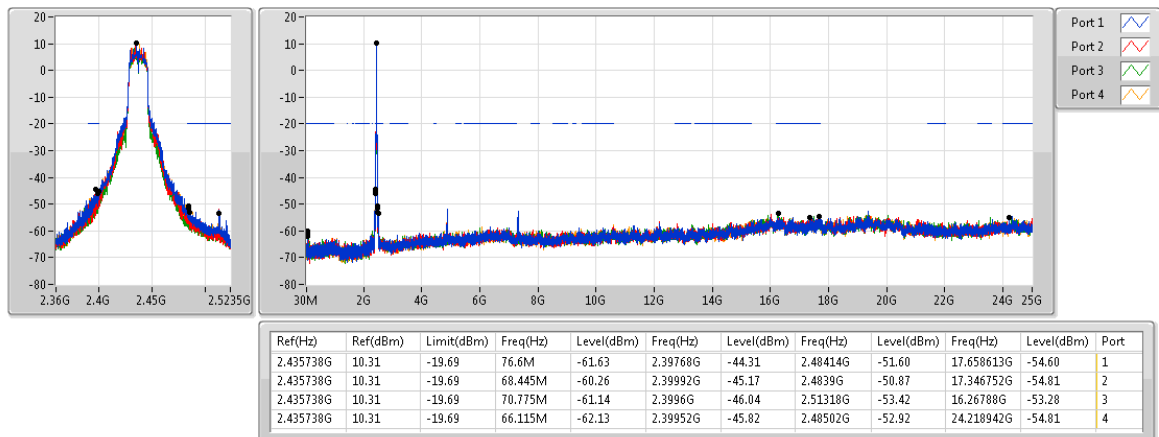
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802.11ac VHT20-BF_Nss1,(MCS0)_4TX

CSE NdB

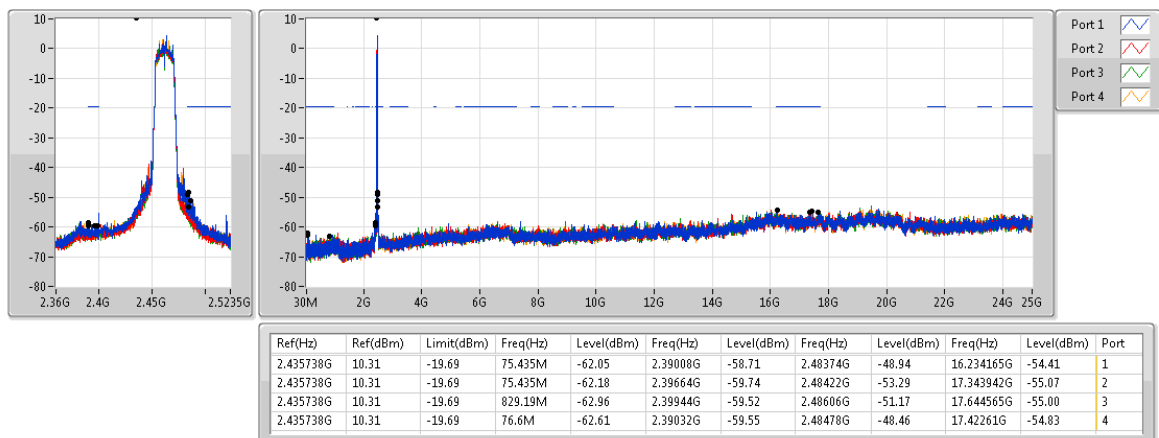
2437MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

CSE NdB

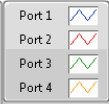
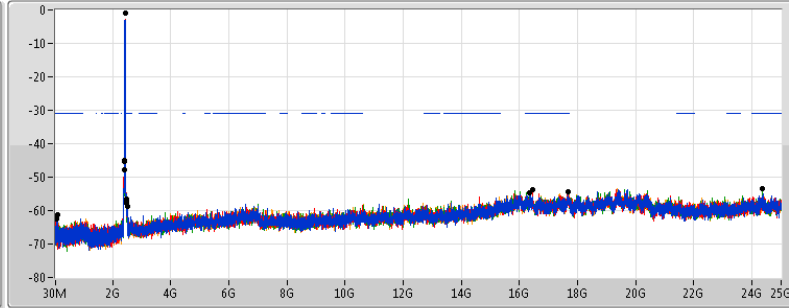
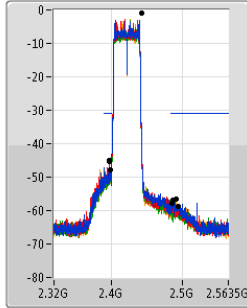
2462MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

CSE NdB

2422MHz

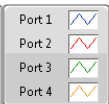
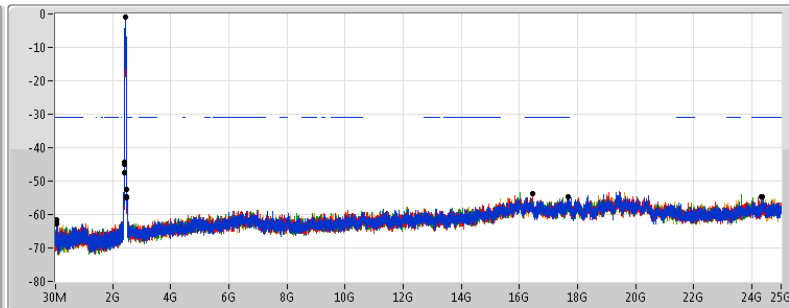
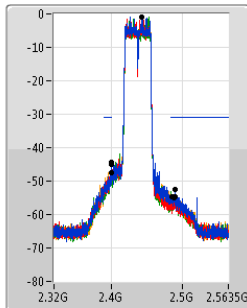


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.441917G	-0.80	-30.80	90.685M	-61.32	2.39872G	-47.77	2.4867G	-56.88	17.680092G	-54.30	1
2.441917G	-0.80	-30.80	75.8M	-62.10	2.39712G	-45.35	2.48478G	-57.70	16.440475G	-53.90	2
2.441917G	-0.80	-30.80	75.8M	-62.60	2.39712G	-44.88	2.49422G	-58.63	24.368973G	-53.35	3
2.441917G	-0.80	-30.80	75.0M	-62.35	2.39936G	-47.60	2.49086G	-56.60	16.347925G	-54.63	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

CSE NdB

2437MHz

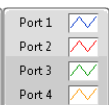
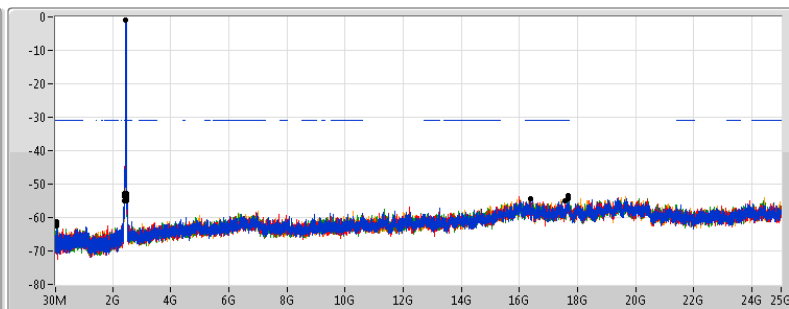
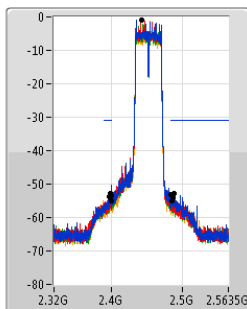


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.441917G	-0.80	-30.80	78.09M	-62.24	2.39968G	-45.00	2.48942G	-52.43	24.318491G	-54.61	1
2.441917G	-0.80	-30.80	75.8M	-62.12	2.39952G	-44.53	2.48782G	-55.09	16.437671G	-53.85	2
2.441917G	-0.80	-30.80	75.8M	-62.74	2.39968G	-47.45	2.48862G	-54.83	24.363364G	-54.68	3
2.441917G	-0.80	-30.80	76.945M	-61.55	2.39968G	-44.59	2.48542G	-54.66	17.688506G	-54.74	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

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
2.441917G	-0.80	-30.80	75.8M	-61.87	2.3992G	-52.76	2.4875G	-52.75	16.370361G	-54.23	1
2.441917G	-0.80	-30.80	76.945M	-61.93	2.39968G	-53.41	2.48398G	-52.97	17.556691G	-54.94	2
2.441917G	-0.80	-30.80	76.945M	-62.39	2.39984G	-54.97	2.48542G	-55.05	17.654851G	-54.38	3
2.441917G	-0.80	-30.80	75.8M	-61.18	2.39664G	-53.72	2.48606G	-54.13	17.668874G	-53.44	4



For Mode 2 (Antenna Set 2 with Gray Cable):

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
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	2.430728G	10.24	-19.76	366.685M	-62.01	2.39952G	-22.53	2.48734G	-53.96	16.683695G	-53.36	4

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_(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.46012G	11.04	-17.35	2.30874G	-62.03	2.39904G	-31.77	2.48734G	-52.15	17.046129G	-53.41	1
2412MHz	Pass	2.46012G	11.04	-18.96	2.30175G	-61.06	2.39904G	-35.58	2.48734G	-49.85	24.42123G	-53.56	2
2412MHz	Pass	2.46012G	11.04	-18.96	1.9639G	-61.81	2.39904G	-32.55	2.48734G	-51.32	16.753934G	-52.90	3
2412MHz	Pass	2.46012G	11.04	-18.96	2.305245G	-61.88	2.39904G	-33.25	2.4883G	-56.40	24.42404G	-53.46	4
2437MHz	Pass	2.46012G	11.04	-18.15	2.04545G	-61.76	2.39968G	-50.00	2.51318G	-54.30	16.672457G	-54.01	1
2437MHz	Pass	2.46012G	11.04	-18.96	2.302915G	-62.08	2.3988G	-52.43	2.51318G	-52.68	16.689314G	-52.20	2
2437MHz	Pass	2.46012G	11.04	-18.96	2.30641G	-61.51	2.3992G	-51.70	2.48526G	-55.57	16.675266G	-52.79	3
2437MHz	Pass	2.46012G	11.04	-18.96	2.300585G	-62.21	2.39808G	-52.24	2.48574G	-56.29	16.748315G	-53.19	4
2462MHz	Pass	2.46012G	11.04	-18.96	1.95691G	-62.53	2.39976G	-55.14	2.48598G	-44.11	16.692124G	-52.80	1
2462MHz	Pass	2.46012G	11.04	-18.96	2.300585G	-59.55	2.3972G	-54.60	2.48398G	-43.77	16.298785G	-54.05	2
2462MHz	Pass	2.46012G	11.04	-18.96	365.52M	-61.52	2.3988G	-54.87	2.4867G	-43.99	16.32969G	-53.25	3
2462MHz	Pass	2.46012G	11.04	-18.96	735.99M	-61.79	2.39792G	-54.29	2.48646G	-43.58	16.706172G	-53.25	4
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.430728G	10.24	-19.76	887.44M	-62.20	2.39984G	-24.05	2.48734G	-51.10	24.792092G	-52.89	1
2412MHz	Pass	2.430728G	10.24	-19.76	2.03147G	-62.52	2.39992G	-27.90	2.48734G	-52.38	16.708981G	-53.15	2
2412MHz	Pass	2.430728G	10.24	-19.76	90.58M	-62.50	2.39992G	-25.89	2.48734G	-55.90	16.776411G	-53.19	3
2412MHz	Pass	2.430728G	10.24	-19.76	366.685M	-62.01	2.39952G	-22.53	2.48734G	-53.96	16.683695G	-53.36	4
2437MHz	Pass	2.430728G	10.24	-19.76	1.962735G	-62.94	2.39992G	-41.30	2.48382G	-47.17	16.697743G	-53.90	1
2437MHz	Pass	2.430728G	10.24	-19.76	2.30641G	-61.71	2.39984G	-43.27	2.48358G	-50.48	16.689314G	-53.32	2
2437MHz	Pass	2.430728G	10.24	-19.76	2.30874G	-60.90	2.39992G	-41.66	2.48414G	-47.97	23.465979G	-53.04	3
2437MHz	Pass	2.430728G	10.24	-19.76	864.14M	-61.88	2.39704G	-39.82	2.4839G	-48.56	16.273499G	-51.79	4
2462MHz	Pass	2.430728G	10.24	-19.76	893.265M	-62.57	2.39992G	-54.83	2.48358G	-42.44	21.462761G	-53.71	1
2462MHz	Pass	2.430728G	10.24	-19.76	492.505M	-62.12	2.39472G	-56.91	2.4863G	-44.94	15.278914G	-53.28	2
2462MHz	Pass	2.430728G	10.24	-19.76	2.309905G	-62.42	2.39664G	-55.56	2.48502G	-43.74	16.720219G	-53.32	3
2462MHz	Pass	2.430728G	10.24	-19.76	2.305245G	-61.91	2.3996G	-56.26	2.48382G	-40.40	16.655599G	-53.11	4
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.439579G	10.93	-19.07	1.95458G	-61.96	2.39856G	-35.18	2.48734G	-53.18	24.825807G	-53.08	1
2412MHz	Pass	2.439579G	10.93	-19.07	889.77M	-62.53	2.39456G	-36.24	2.48734G	-52.91	16.672457G	-53.25	2
2412MHz	Pass	2.439579G	10.93	-19.07	740.65M	-62.16	2.39984G	-33.37	2.48734G	-55.74	16.97027G	-53.24	3
2412MHz	Pass	2.439579G	10.93	-19.07	869.965M	-61.87	2.3996G	-29.39	2.48734G	-52.25	21.563905G	-53.19	4
2437MHz	Pass	2.439579G	10.93	-19.07	2.305245G	-60.75	2.39576G	-38.77	2.48382G	-46.81	16.748315G	-53.16	1
2437MHz	Pass	2.439579G	10.93	-19.07	2.30408G	-61.77	2.3996G	-40.73	2.48382G	-46.49	24.086892G	-53.54	2
2437MHz	Pass	2.439579G	10.93	-19.07	723.175M	-61.29	2.39952G	-39.07	2.48382G	-46.98	16.610646G	-52.84	3
2437MHz	Pass	2.439579G	10.93	-19.07	815.21M	-61.78	2.3964G	-39.45	2.4851G	-44.19	16.801697G	-53.13	4
2462MHz	Pass	2.439579G	10.93	-19.07	2.09671G	-61.63	2.39928G	-55.35	2.48358G	-41.86	16.998366G	-53.20	1
2462MHz	Pass	2.439579G	10.93	-19.07	2.300585G	-62.35	2.39032G	-57.02	2.48486G	-43.18	16.354976G	-53.60	2
2462MHz	Pass	2.439579G	10.93	-19.07	861.81M	-61.69	2.39024G	-57.19	2.48446G	-41.73	24.752759G	-53.07	3
2462MHz	Pass	2.439579G	10.93	-19.07	2.30874G	-62.27	2.39768G	-56.64	2.48454G	-39.43	23.415407G	-53.36	4
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.441917G	3.15	-26.85	2.05665G	-62.33	2.39712G	-37.70	2.48766G	-53.67	24.826117G	-52.71	1



CSE Non-restricted Band Result

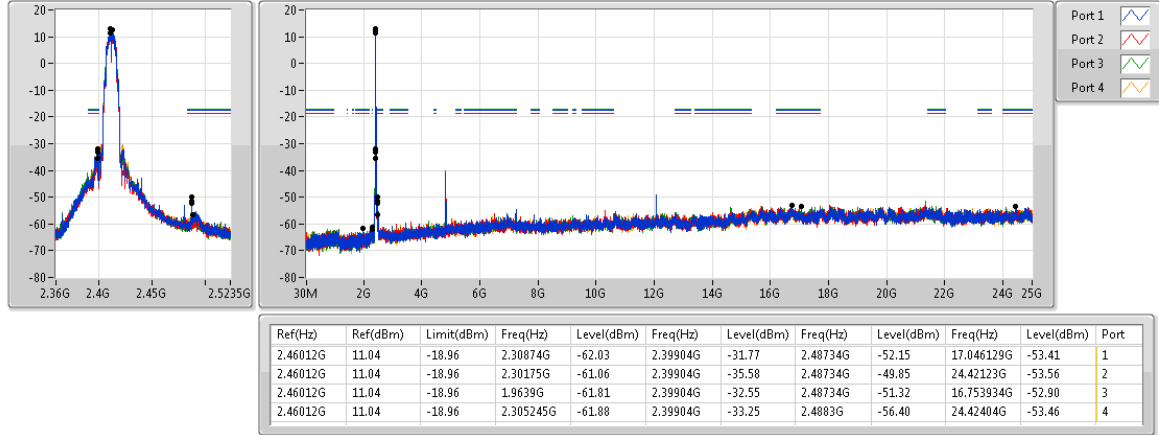
Appendix E

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
2422MHz	Pass	2.441917G	3.15	-26.85	2.16886G	-62.92	2.39808G	-40.09	2.4867G	-54.43	21.79719G	-52.05	2
2422MHz	Pass	2.441917G	3.15	-26.85	2.30626G	-61.26	2.39712G	-34.14	2.48734G	-54.97	24.77283G	-53.07	3
2422MHz	Pass	2.441917G	3.15	-26.85	2.126495G	-61.95	2.39776G	-35.27	2.49038G	-52.69	16.381579G	-53.40	4
2437MHz	Pass	2.441917G	3.15	-26.85	920.81M	-62.94	2.3992G	-37.22	2.48446G	-43.92	16.751782G	-52.13	1
2437MHz	Pass	2.441917G	3.15	-26.85	753.64M	-62.83	2.39968G	-36.99	2.48878G	-44.91	16.678863G	-53.10	2
2437MHz	Pass	2.441917G	3.15	-26.85	2.153975G	-62.33	2.39952G	-37.24	2.48558G	-45.35	16.333902G	-53.07	3
2437MHz	Pass	2.441917G	3.15	-26.85	1.979935G	-62.49	2.39952G	-35.05	2.48462G	-43.45	24.820508G	-52.65	4
2452MHz	Pass	2.441917G	3.15	-26.85	828.065M	-62.84	2.39856G	-45.54	2.48494G	-34.55	16.690081G	-53.35	1
2452MHz	Pass	2.441917G	3.15	-26.85	736.465M	-62.84	2.39904G	-46.22	2.48366G	-38.97	15.304627G	-53.45	2
2452MHz	Pass	2.441917G	3.15	-26.85	924.245M	-62.63	2.39728G	-44.03	2.48366G	-39.20	16.353534G	-52.95	3
2452MHz	Pass	2.441917G	3.15	-26.85	1.73605G	-62.44	2.39776G	-46.04	2.48478G	-38.64	16.37597G	-53.27	4
802.11ac VHT20-BF_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.435738G	11.27	-18.73	83.59M	-62.74	2.39984G	-26.12	2.48734G	-50.76	17.695138G	-54.02	1
2412MHz	Pass	2.435738G	11.27	-18.73	89.415M	-62.86	2.39988G	-31.52	2.48734G	-48.94	16.32969G	-53.57	2
2412MHz	Pass	2.435738G	11.27	-18.73	83.59M	-62.09	2.39832G	-32.73	2.48734G	-50.19	16.369024G	-54.11	3
2412MHz	Pass	2.435738G	11.27	-18.73	76.6M	-61.42	2.39976G	-27.82	2.48734G	-49.17	7.229517G	-53.42	4
2437MHz	Pass	2.435738G	11.27	-18.73	149.995M	-61.09	2.39976G	-44.09	2.51318G	-49.24	16.416787G	-54.05	1
2437MHz	Pass	2.435738G	11.27	-18.73	2.302915G	-62.52	2.39952G	-45.10	2.4867G	-54.08	17.644565G	-54.14	2
2437MHz	Pass	2.435738G	11.27	-18.73	2.305245G	-61.23	2.39768G	-44.70	2.51318G	-52.19	17.641756G	-52.73	3
2437MHz	Pass	2.435738G	11.27	-18.73	1.84973G	-61.97	2.39952G	-44.01	2.51318G	-48.45	17.397324G	-51.83	4
2462MHz	Pass	2.435738G	11.27	-18.73	75.435M	-61.20	2.3924G	-57.07	2.48366G	-35.16	24.398754G	-54.79	1
2462MHz	Pass	2.435738G	11.27	-18.73	888.605M	-62.13	2.39776G	-56.87	2.48574G	-37.83	16.251022G	-55.07	2
2462MHz	Pass	2.435738G	11.27	-18.73	2.300585G	-62.31	2.39656G	-58.35	2.48446G	-39.24	24.328515G	-54.95	3
2462MHz	Pass	2.435738G	11.27	-18.73	2.04778G	-62.81	2.39016G	-57.02	2.48422G	-37.04	17.001176G	-54.69	4
802.11ac VHT40-BF_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.440748G	3.33	-26.67	75.8M	-60.22	2.39952G	-36.60	2.48382G	-50.78	17.652046G	-54.78	1
2422MHz	Pass	2.440748G	3.33	-26.67	809.745M	-62.66	2.39936G	-37.17	2.4851G	-53.67	16.303052G	-54.63	2
2422MHz	Pass	2.440748G	3.33	-26.67	86.105M	-62.07	2.39712G	-36.93	2.49438G	-52.56	17.652046G	-53.67	3
2422MHz	Pass	2.440748G	3.33	-26.67	2.041765G	-62.55	2.39696G	-36.16	2.4851G	-52.64	17.680092G	-53.50	4
2437MHz	Pass	2.440748G	3.33	-26.67	75.8M	-62.81	2.39952G	-36.05	2.48462G	-43.06	17.640828G	-54.64	1
2437MHz	Pass	2.440748G	3.33	-26.67	78.09M	-62.88	2.39952G	-38.00	2.48446G	-44.14	24.792462G	-55.00	2
2437MHz	Pass	2.440748G	3.33	-26.67	149.08M	-60.52	2.3992G	-39.85	2.48462G	-45.20	16.210501G	-54.58	3
2437MHz	Pass	2.440748G	3.33	-26.67	78.09M	-61.04	2.39952G	-37.59	2.48878G	-44.75	16.275006G	-54.83	4
2452MHz	Pass	2.440748G	3.33	-26.67	2.305115G	-62.00	2.39888G	-44.40	2.48366G	-37.00	17.685701G	-54.08	1
2452MHz	Pass	2.440748G	3.33	-26.67	78.09M	-62.56	2.39888G	-45.55	2.48366G	-40.91	17.696919G	-54.00	2
2452MHz	Pass	2.440748G	3.33	-26.67	83.815M	-62.54	2.39648G	-47.45	2.48942G	-42.75	17.680092G	-53.50	3
2452MHz	Pass	2.440748G	3.33	-26.67	2.096725G	-62.31	2.3984G	-45.17	2.48382G	-37.31	17.66046G	-55.33	4

802.11b_(1Mbps)_4TX

CSE NdB

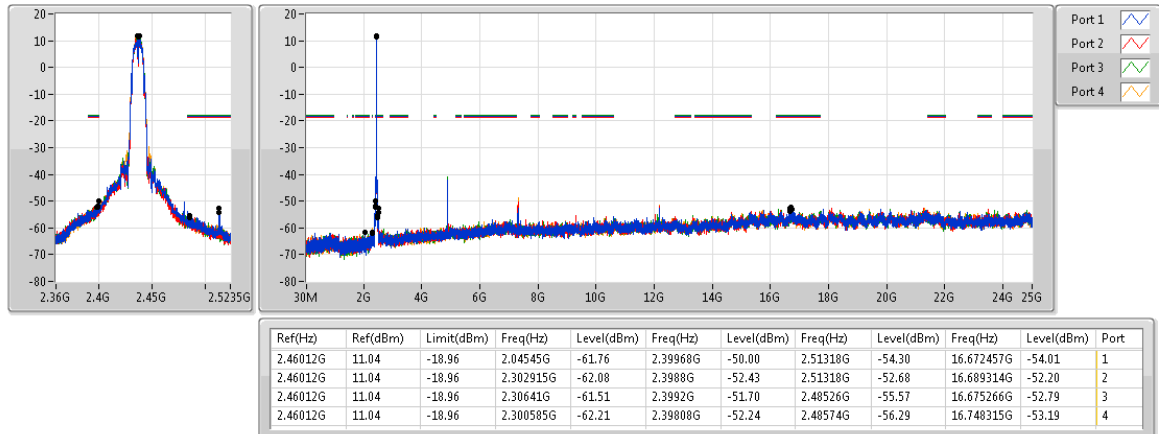
2412MHz



802.11b_(1Mbps)_4TX

CSE NdB

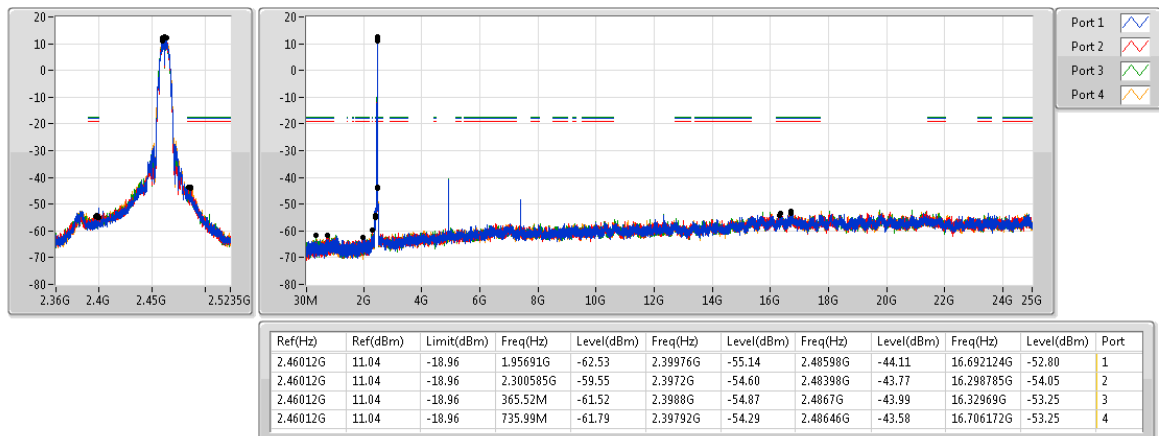
2437MHz



802.11b_(1Mbps)_4TX

CSE NdB

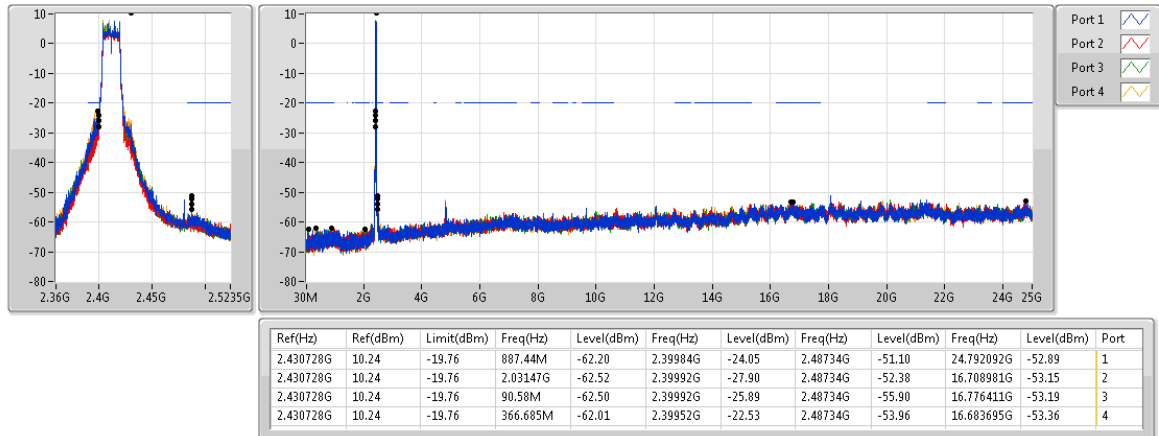
2462MHz



802.11g_(6Mbps)_4TX

CSE NdB

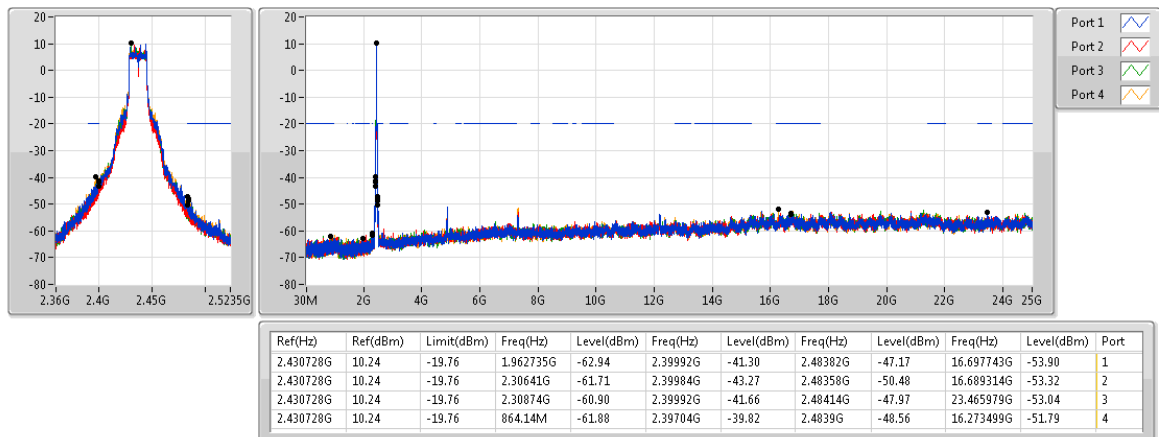
2412MHz



802.11g_(6Mbps)_4TX

CSE NdB

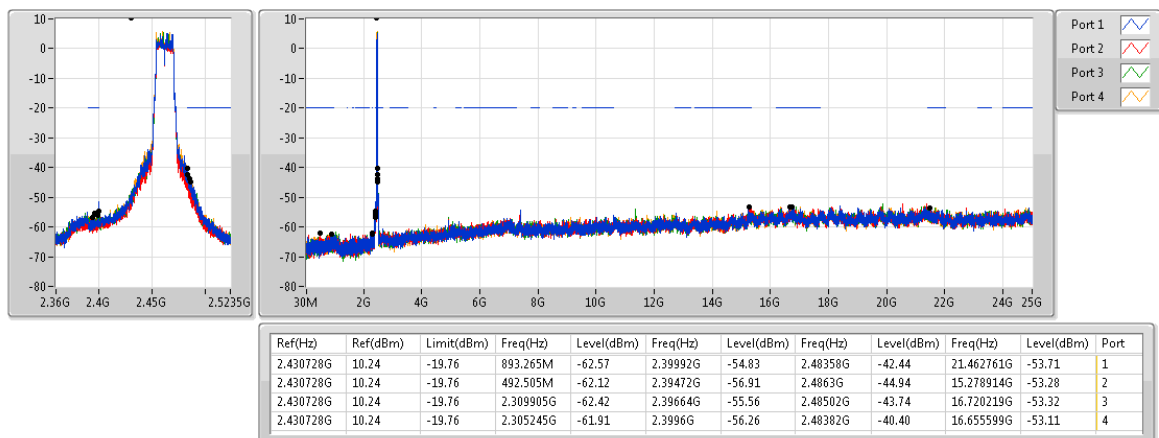
2437MHz



802.11g_(6Mbps)_4TX

CSE NdB

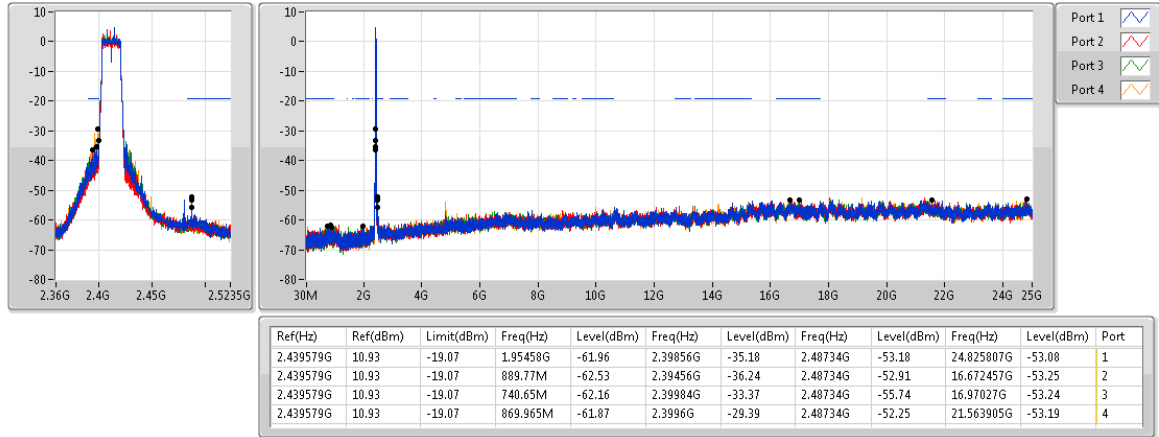
2462MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

CSE NdB

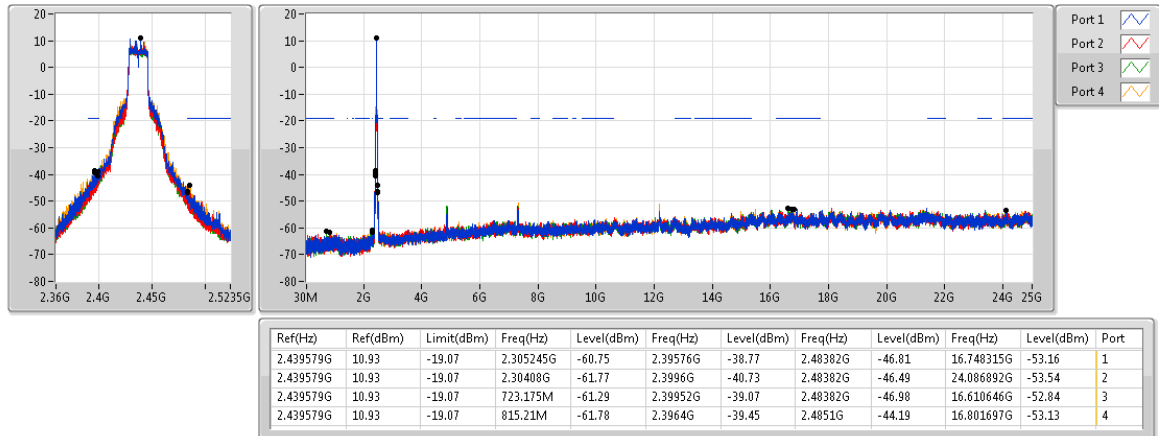
2412MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

CSE NdB

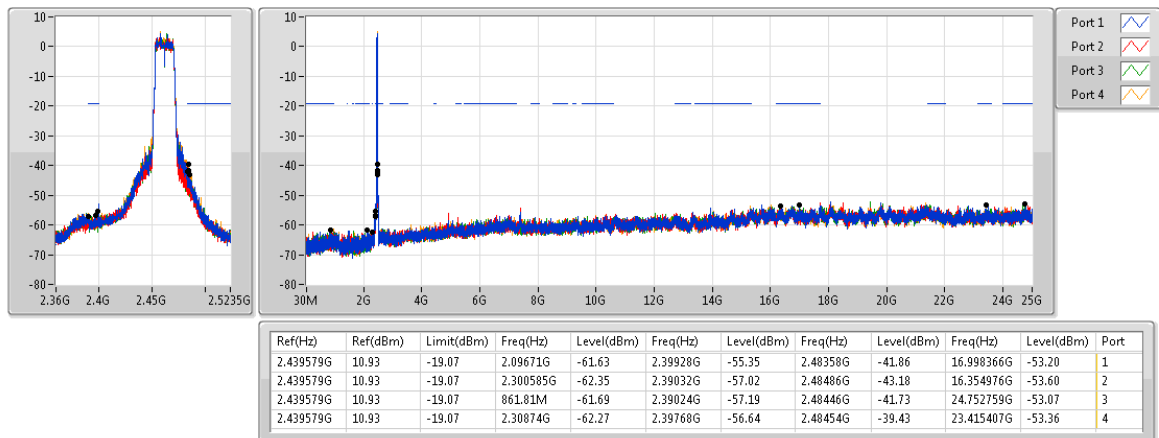
2437MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

CSE NdB

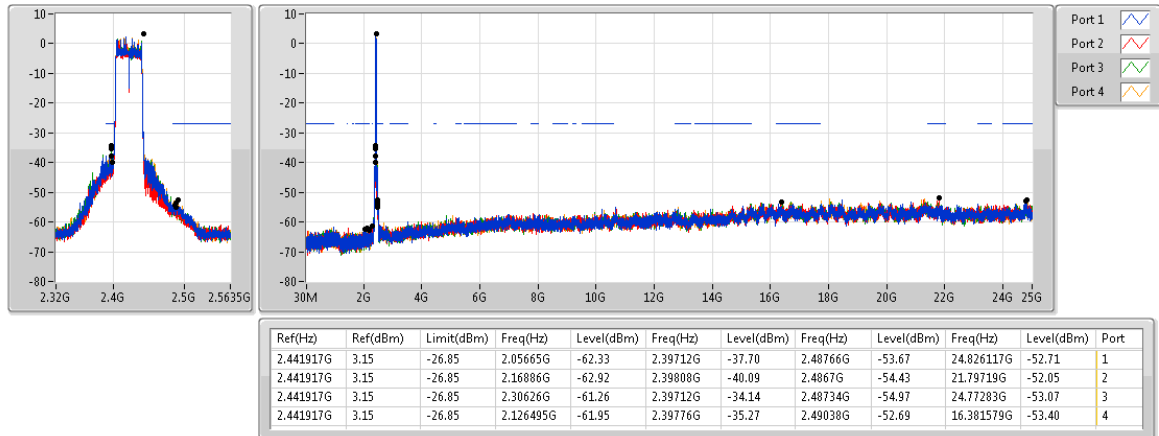
2462MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

CSE NdB

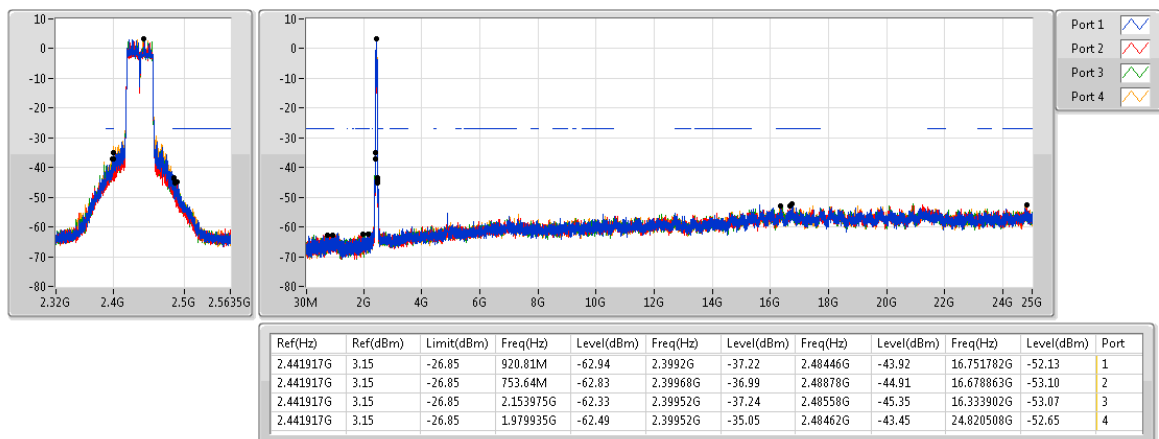
2422MHz



802.11ac VHT40_Nss1,(MCS0)_4TX

CSE NdB

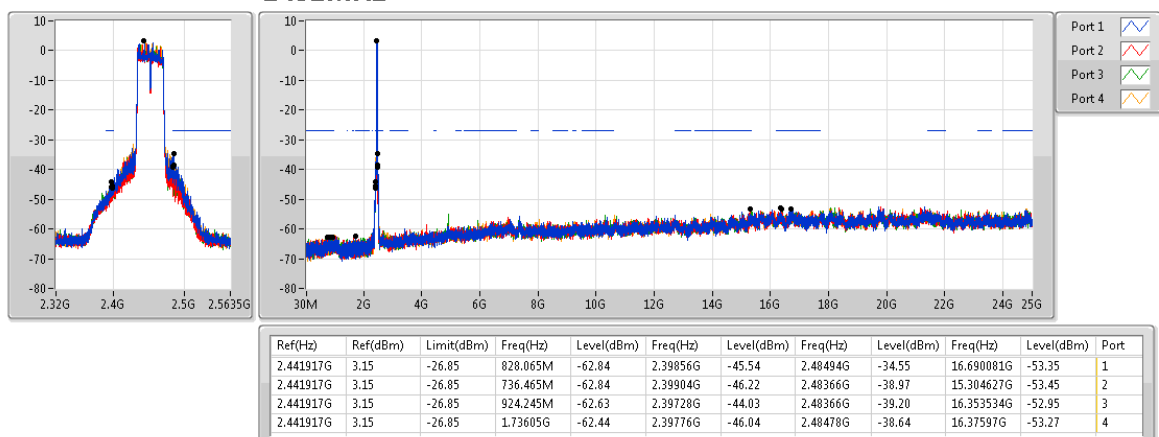
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802.11ac VHT40_Nss1,(MCS0)_4TX

CSE NdB

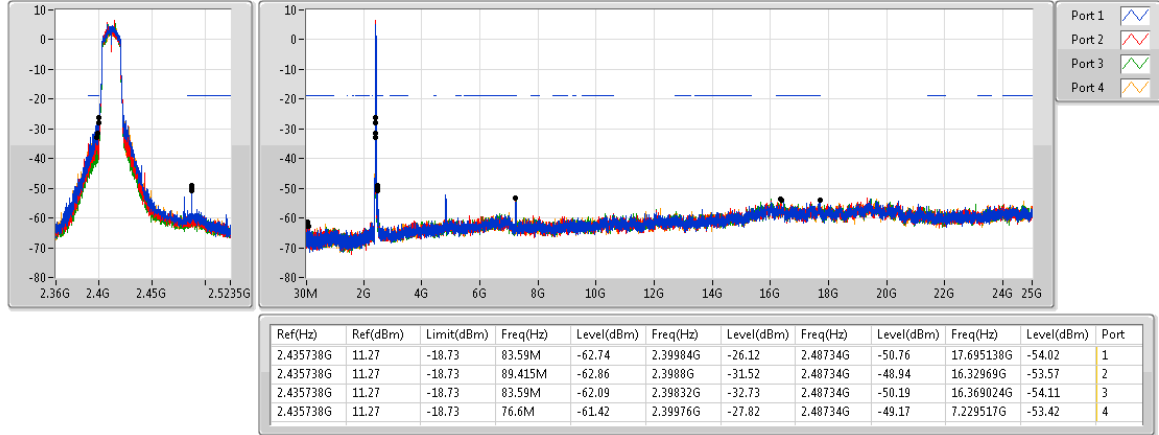
2452MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

CSE NdB

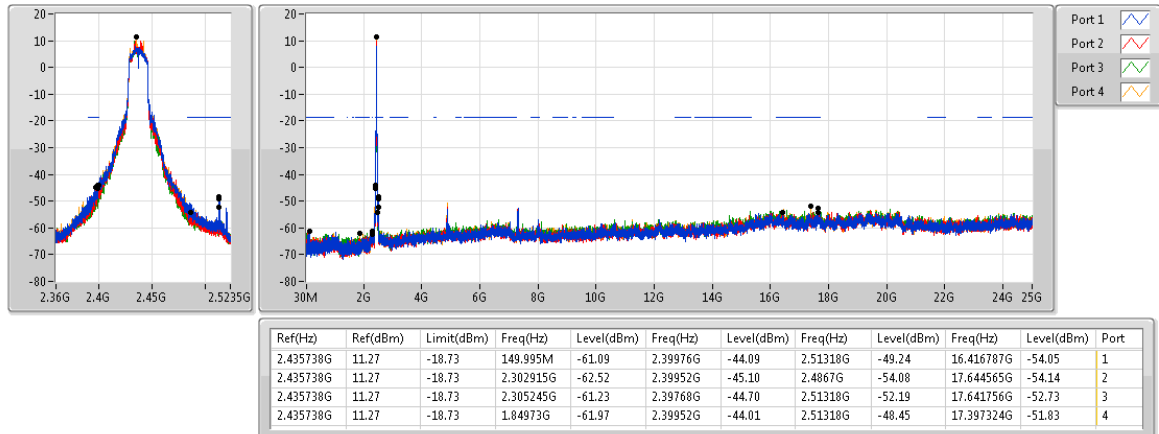
2412MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

CSE NdB

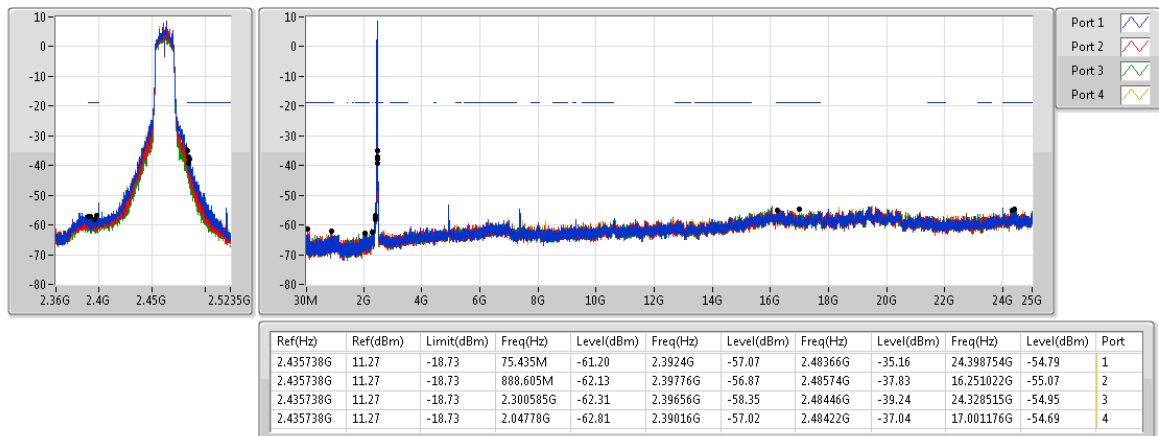
2437MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

CSE NdB

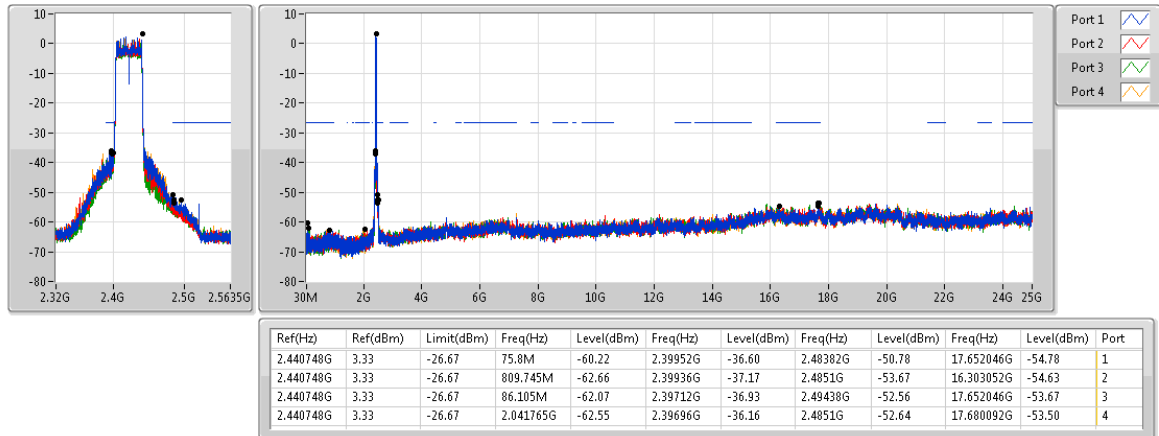
2462MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

CSE NdB

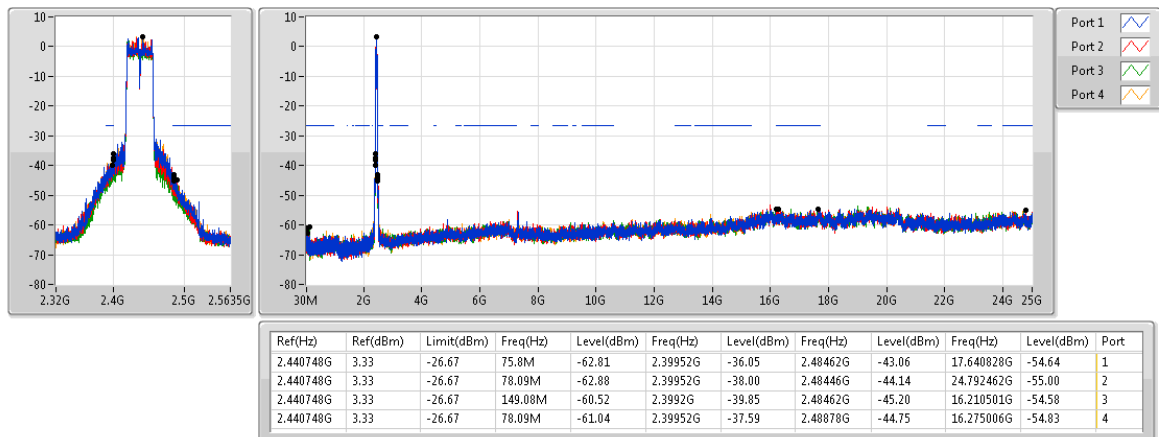
2422MHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

CSE NdB

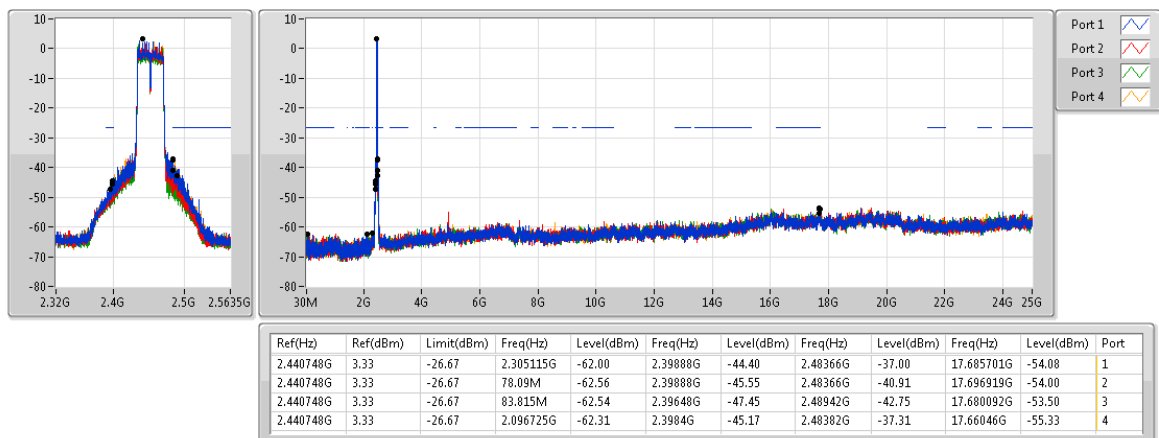
2437MHz

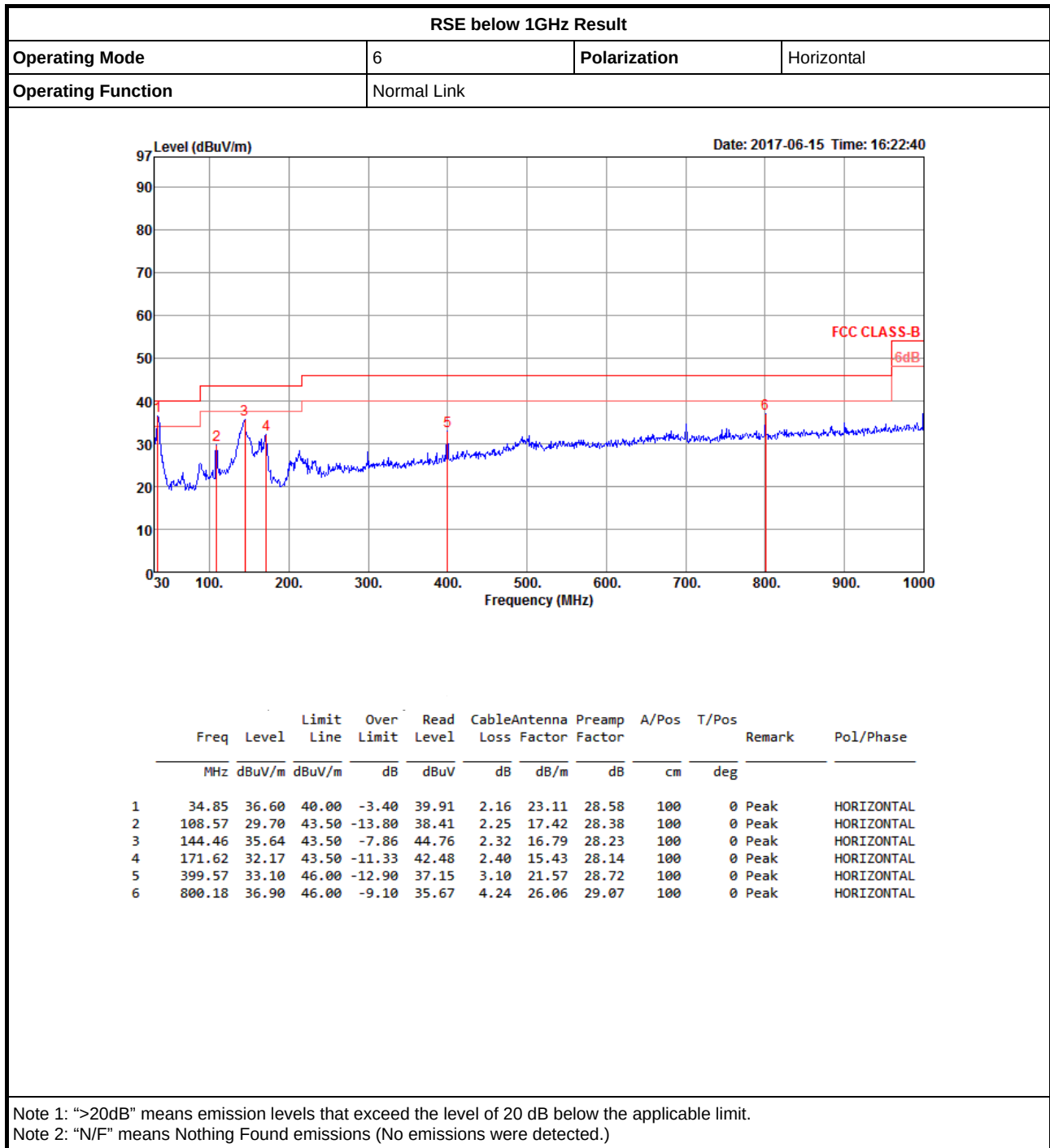


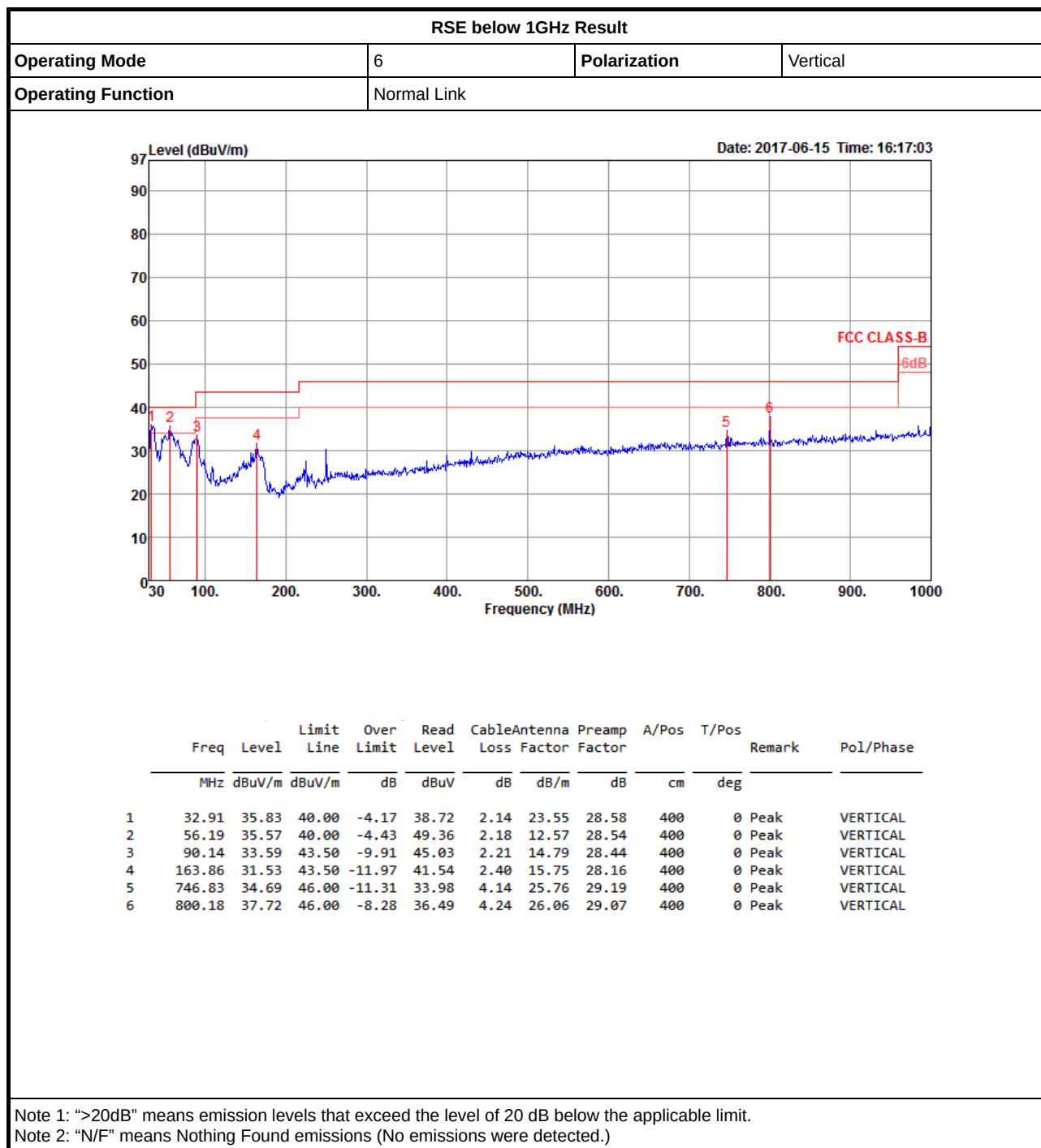
802.11ac VHT40-BF_Nss1,(MCS0)_4TX

CSE NdB

2452MHz





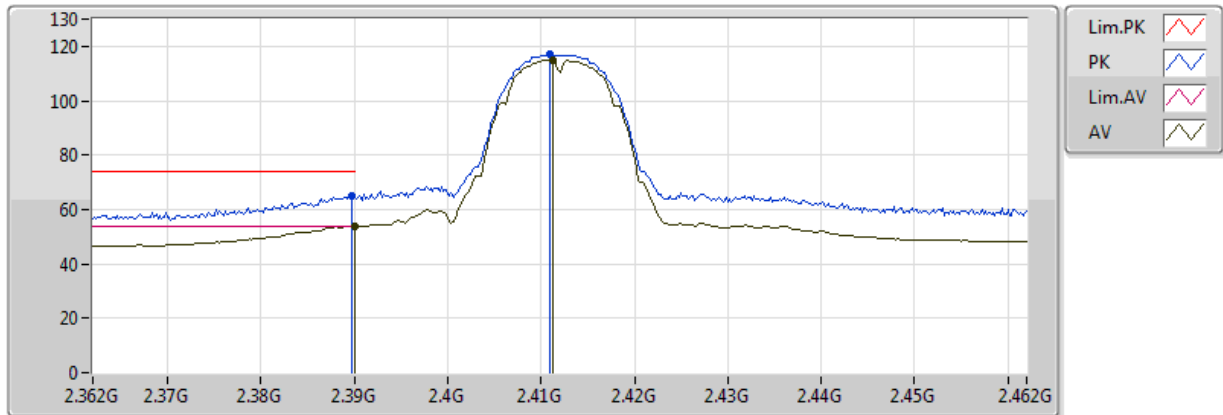


**For Mode 1 (Antenna Set 1):
Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.39G	53.99	54.00	-0.01	31.91	3	V	346	1.01	-

802.11b_(1Mbps)_4TX

2412MHz_TX

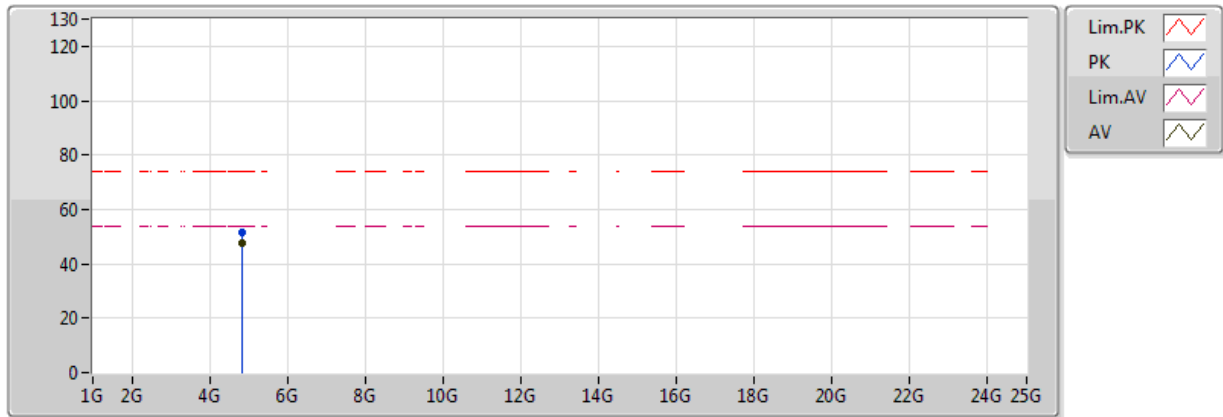


20170502
EUT X 4TX ANT Dipole
Setting 71
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	53.99	54.00	-0.01	31.91	3	V	346	1.01	-
AV	2.4112G	114.81	Inf	-Inf	31.97	3	V	346	1.01	-
PK	2.3898G	64.84	74.00	-9.16	31.91	3	V	346	1.01	-
PK	2.411G	116.91	Inf	-Inf	31.97	3	V	346	1.01	-

802.11b_(1Mbps)_4TX

2412MHz_TX

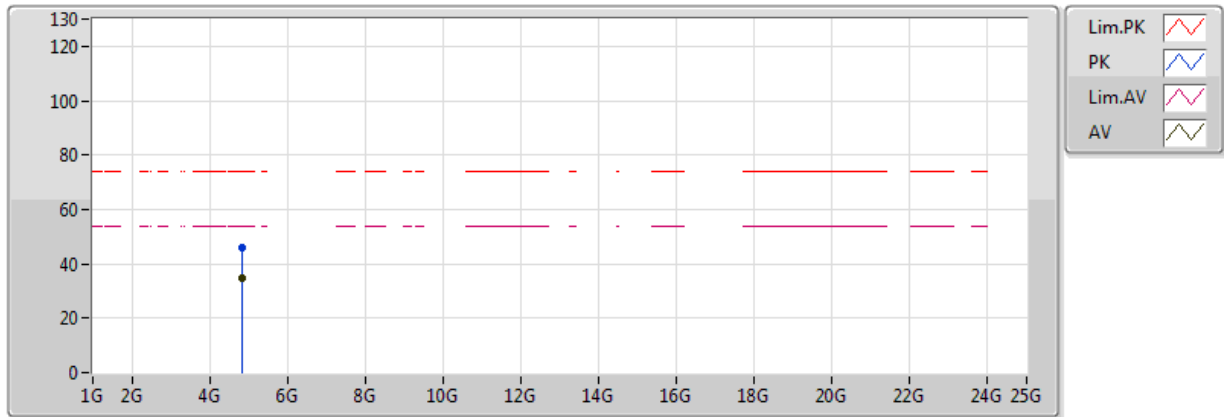


20170502
EUT X 4TX ANT Dipole
Setting 71
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.824G	47.74	54.00	-6.26	4.72	3	V	354	1.00	-
PK	4.82406G	51.80	74.00	-22.20	4.72	3	V	354	1.00	-

802.11b_(1Mbps)_4TX

2412MHz_TX

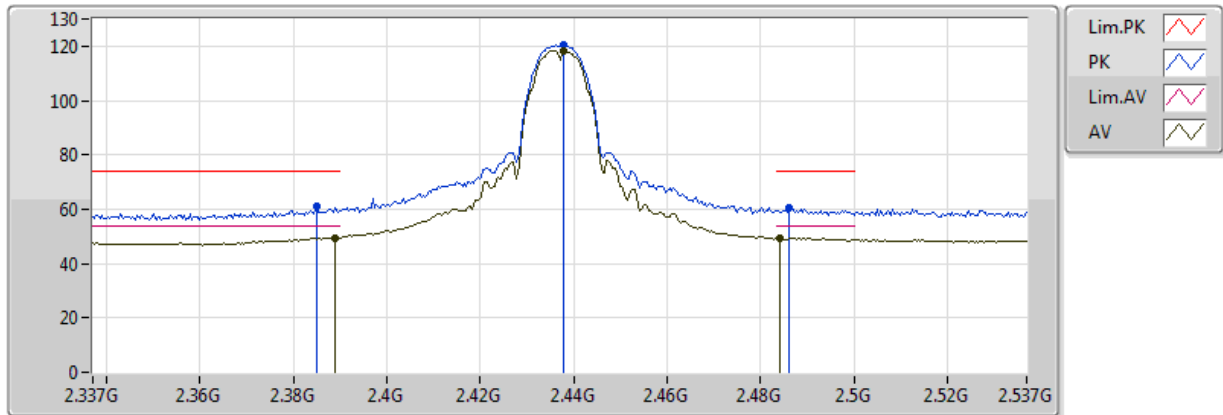


20170502
EUT X 4TX ANT Dipole
Setting 71
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82382G	34.49	54.00	-19.51	4.72	3	H	16	1.63	-
PK	4.82108G	45.92	74.00	-28.08	4.71	3	H	16	1.63	-

802.11b_(1Mbps)_4TX

2437MHz_TX

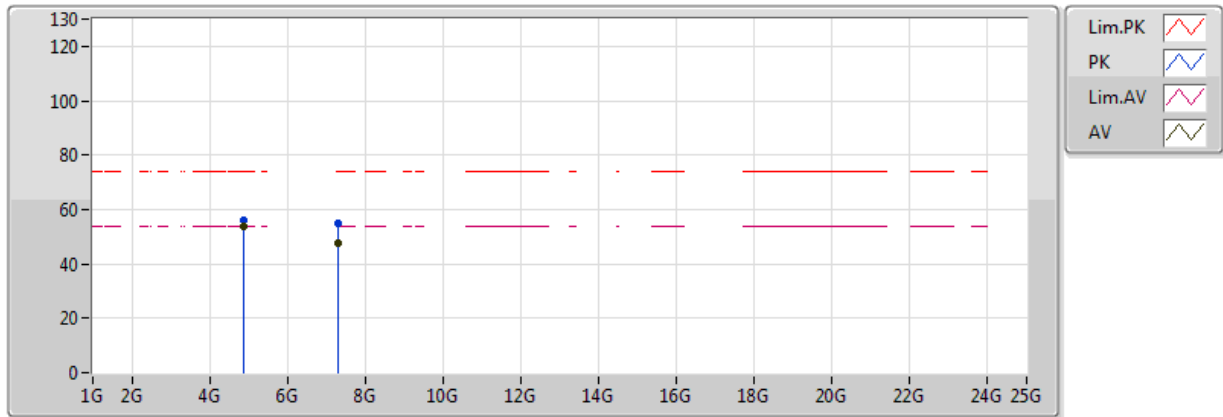


20170502
EUT X 4TX ANT Dipole
Setting 85
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389G	49.56	54.00	-4.44	31.91	3	V	342	1.00	-
AV	2.4378G	118.28	Inf	-Inf	32.03	3	V	342	1.00	-
AV	2.4842G	49.25	54.00	-4.75	32.14	3	V	342	1.00	-
PK	2.385G	61.24	74.00	-12.76	31.90	3	V	342	1.00	-
PK	2.4378G	120.32	Inf	-Inf	32.03	3	V	342	1.00	-
PK	2.4862G	60.71	74.00	-13.29	32.15	3	V	342	1.00	-

802.11b_(1Mbps)_4TX

2437MHz_TX

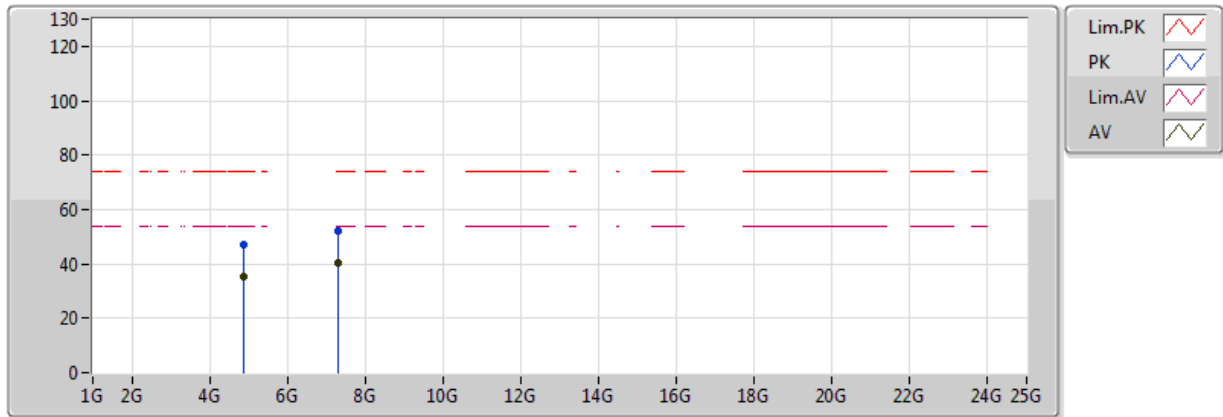


20170502
EUT X 4TX ANT Dipole
Setting 85
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.874G	53.99	54.00	-0.01	4.82	3	V	346	1.09	-
AV	7.31192G	47.38	54.00	-6.62	8.80	3	V	11	2.67	-
PK	4.87394G	56.21	74.00	-17.79	4.82	3	V	346	1.09	-
PK	7.31192G	54.82	74.00	-19.18	8.80	3	V	11	2.67	-

802.11b_(1Mbps)_4TX

2437MHz_TX

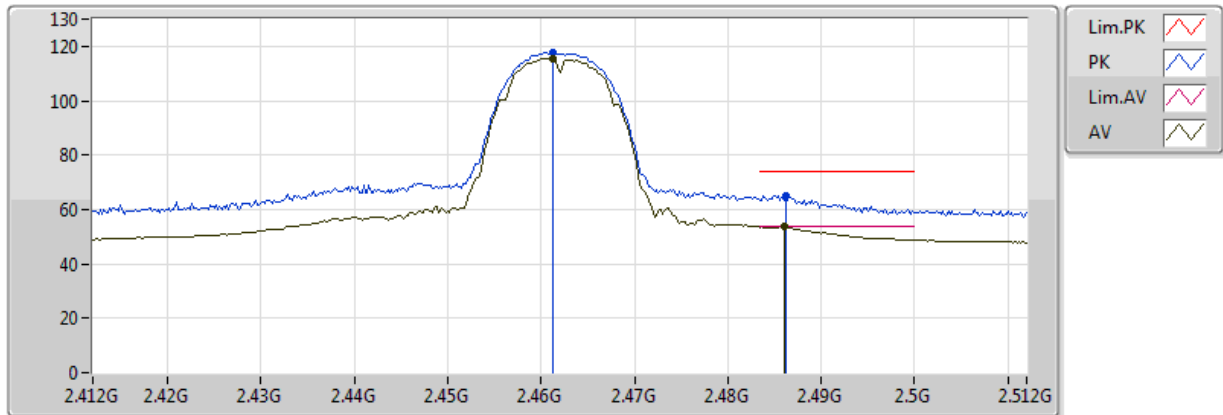


20170502
EUT X 4TX ANT Dipole
Setting 85
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.86508G	35.12	54.00	-18.88	4.80	3	H	19	2.14	-
AV	7.31188G	40.12	54.00	-13.88	8.80	3	H	264	1.55	-
PK	4.88368G	47.34	74.00	-26.66	4.84	3	H	19	2.14	-
PK	7.30732G	52.15	74.00	-21.85	8.80	3	H	264	1.55	-

802.11b_(1Mbps)_4TX

2462MHz_TX

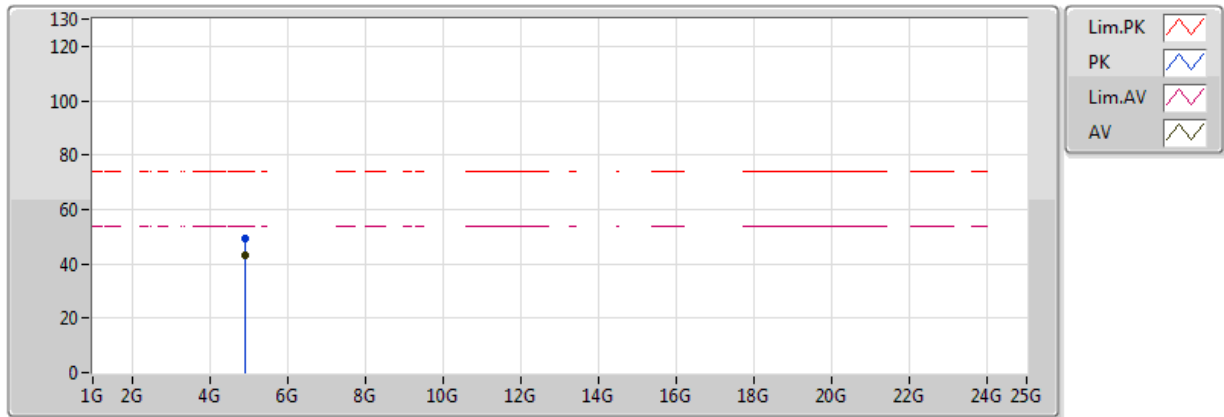


20170502
EUT X 4TX ANT Dipole
Setting 75
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4612G	115.45	Inf	-Inf	32.09	3	V	341	1.00	-
AV	2.486G	53.98	54.00	-0.02	32.15	3	V	341	1.00	-
PK	2.4612G	117.59	Inf	-Inf	32.09	3	V	341	1.00	-
PK	2.4862G	65.13	74.00	-8.87	32.15	3	V	341	1.00	-

802.11b_(1Mbps)_4TX

2462MHz_TX

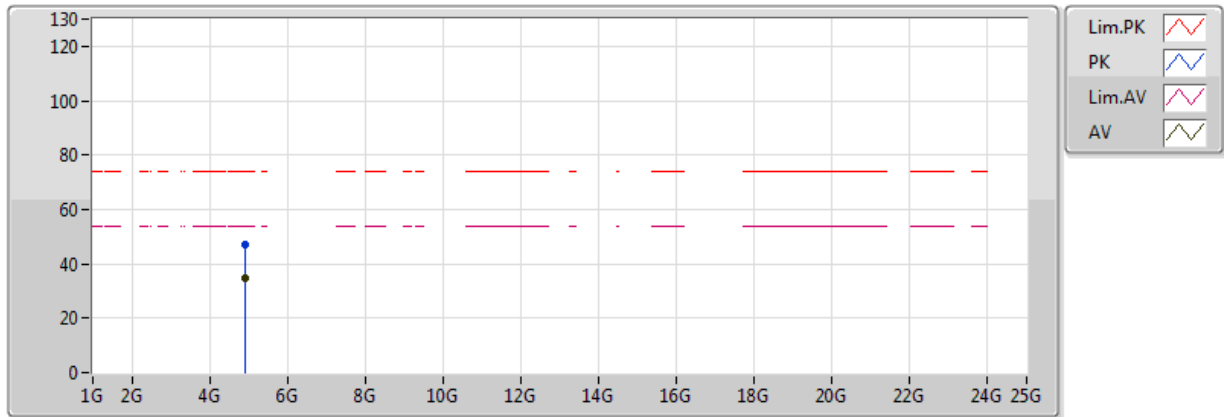


20170502
EUT X 4TX ANT Dipole
Setting 75
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92402G	43.00	54.00	-11.00	4.92	3	V	345	1.00	-
PK	4.92416G	49.49	74.00	-24.51	4.92	3	V	345	1.00	-

802.11b_(1Mbps)_4TX

2462MHz_TX

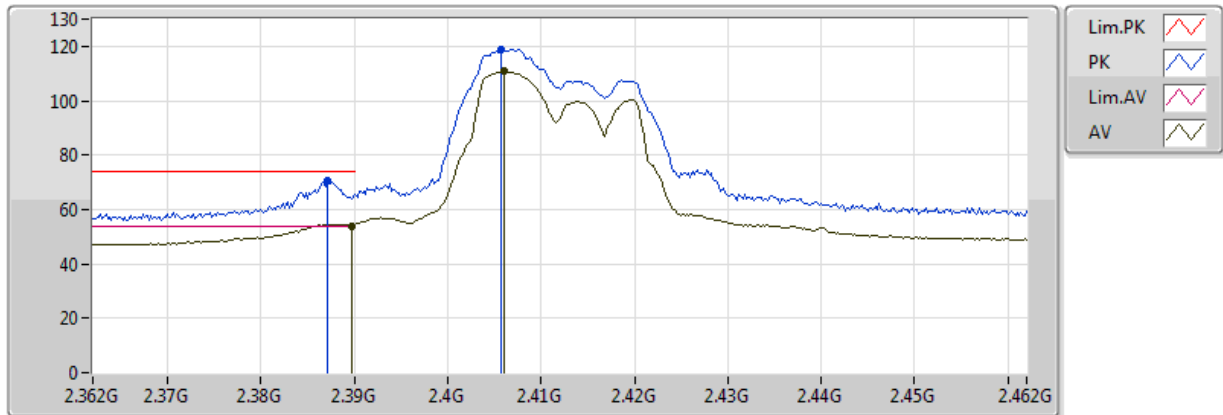


20170502
EUT X 4TX ANT Dipole
Setting 75
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91908G	34.89	54.00	-19.11	4.91	3	H	251	2.33	-
PK	4.92112G	47.24	74.00	-26.76	4.92	3	H	251	2.33	-

802.11g_(6Mbps)_4TX

2412MHz_TX

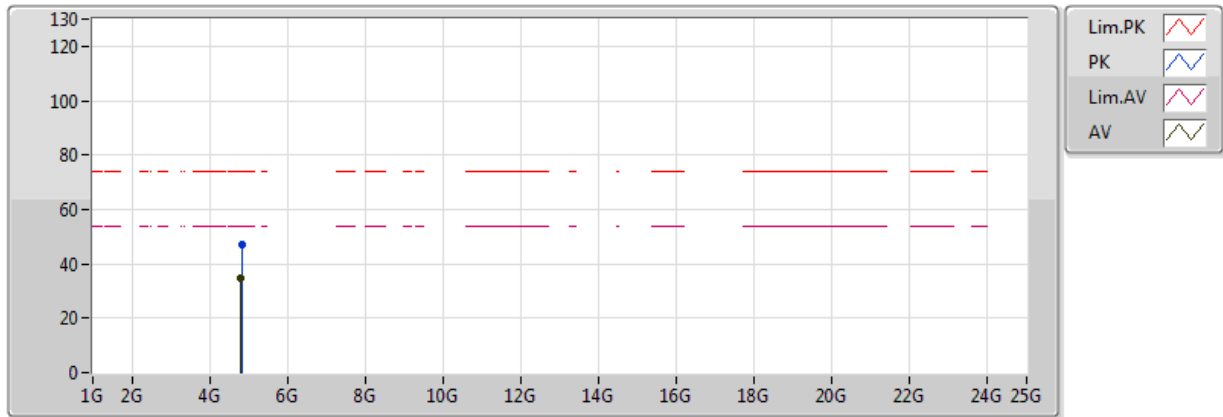


20170502
EUT X 4TX ANT Dipole
Setting 56
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	53.99	54.00	-0.01	31.91	3	V	281	1.01	-
AV	2.406G	110.74	Inf	-Inf	31.95	3	V	281	1.01	-
PK	2.3872G	70.65	74.00	-3.35	31.91	3	V	281	1.01	-
PK	2.4058G	118.94	Inf	-Inf	31.95	3	V	281	1.01	-

802.11g_(6Mbps)_4TX

2412MHz_TX

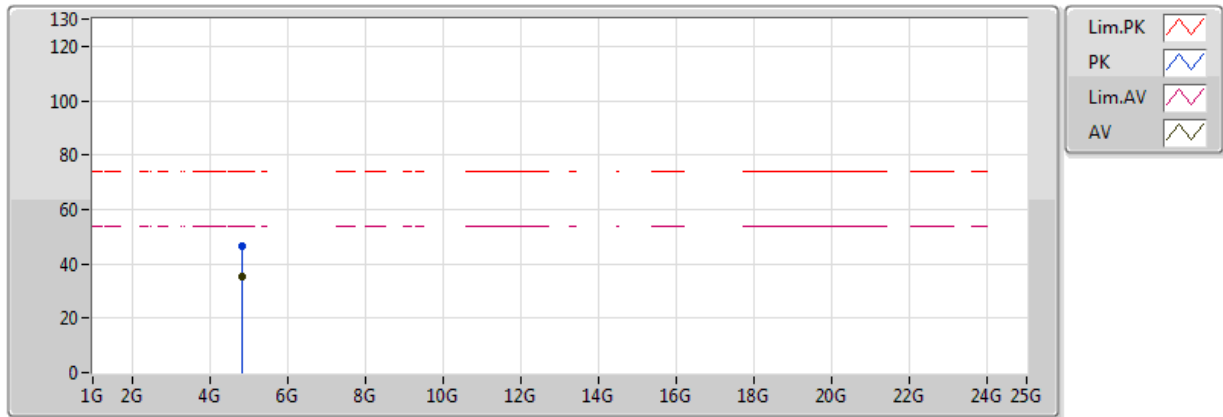


20170502
EUT X 4TX ANT Dipole
Setting 56
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.81524G	34.90	54.00	-19.10	4.70	3	V	41	2.20	-
PK	4.81868G	47.24	74.00	-26.76	4.71	3	V	41	2.20	-

802.11g_(6Mbps)_4TX

2412MHz_TX

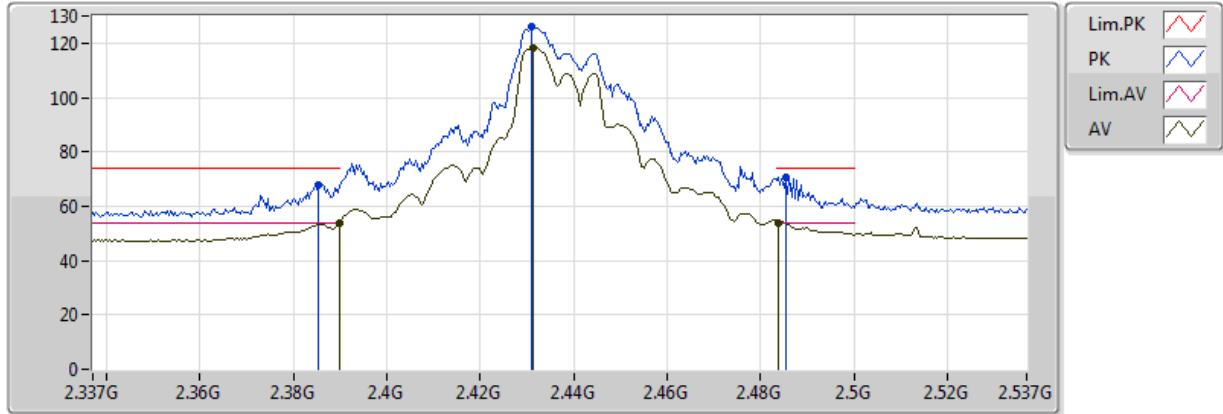


20170502
EUT X 4TX ANT Dipole
Setting 56
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82728G	35.32	54.00	-18.68	4.72	3	H	48	1.30	-
PK	4.82928G	46.63	74.00	-27.37	4.73	3	H	48	1.30	-

802.11g_(6Mbps)_4TX

2437MHz_TX

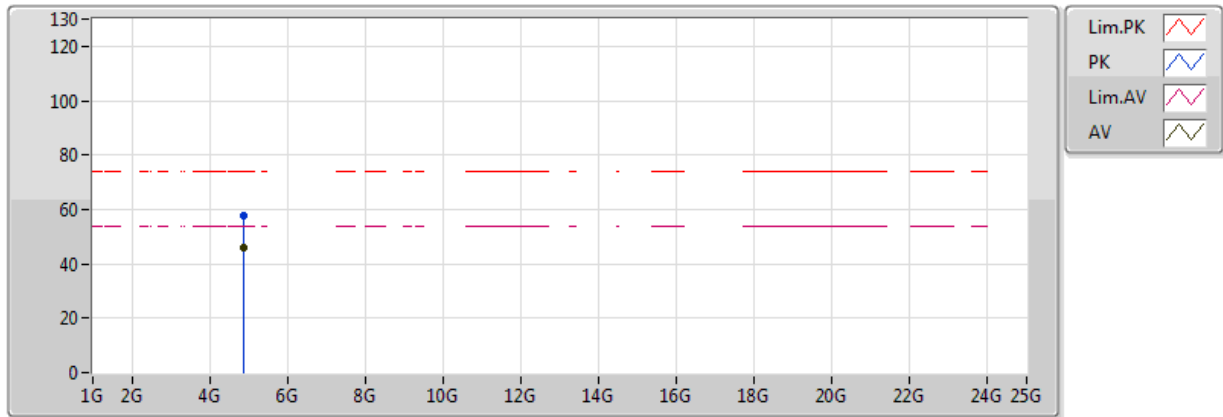


20170502
EUT X 4TX ANT Dipole
Setting 90
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	53.61	54.00	-0.39	31.91	3	V	281	1.12	-
AV	2.4314G	118.32	Inf	-Inf	32.02	3	V	281	1.12	-
AV	2.4838G	53.98	54.00	-0.02	32.14	3	V	281	1.12	-
PK	2.3854G	68.03	74.00	-5.97	31.90	3	V	281	1.12	-
PK	2.431G	126.27	Inf	-Inf	32.01	3	V	281	1.12	-
PK	2.4854G	70.63	74.00	-3.37	32.14	3	V	281	1.12	-

802.11g_(6Mbps)_4TX

2437MHz_TX

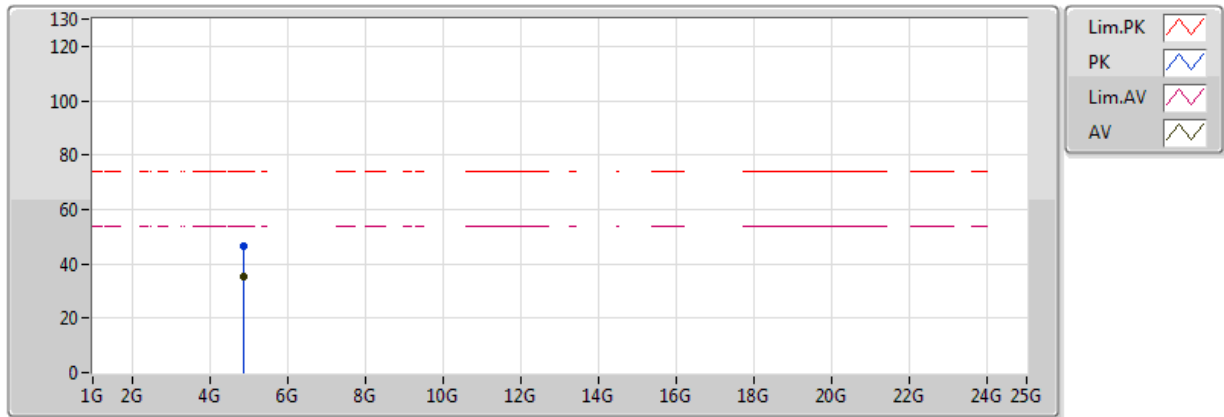


20170502
EUT X 4TX ANT Dipole
Setting 90
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87048G	45.89	54.00	-8.11	4.81	3	V	336	1.25	-
PK	4.87144G	57.87	74.00	-16.13	4.81	3	V	336	1.25	-

802.11g_(6Mbps)_4TX

2437MHz_TX

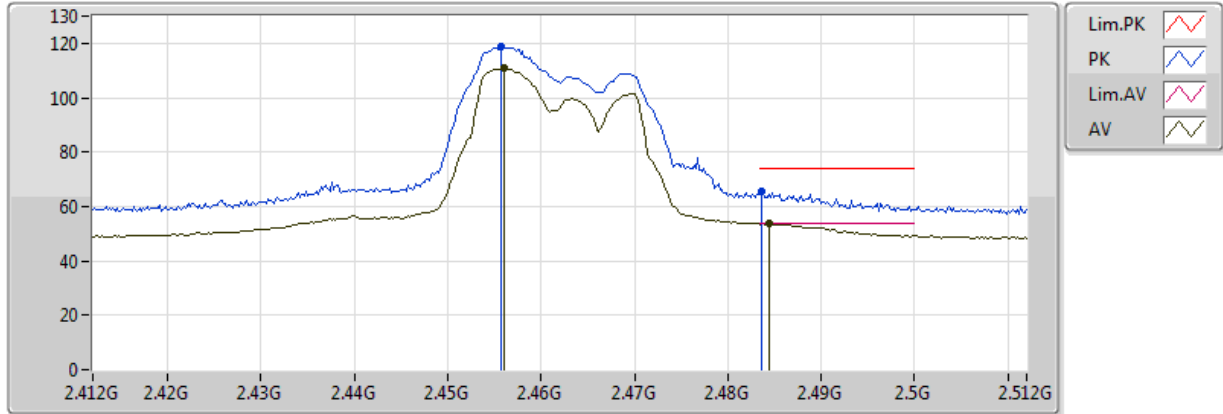


20170502
EUT X 4TX ANT Dipole
Setting 90
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87368G	35.04	54.00	-18.96	4.82	3	H	222	1.00	-
PK	4.87792G	46.69	74.00	-27.31	4.83	3	H	222	1.00	-

802.11g_(6Mbps)_4TX

2462MHz_TX

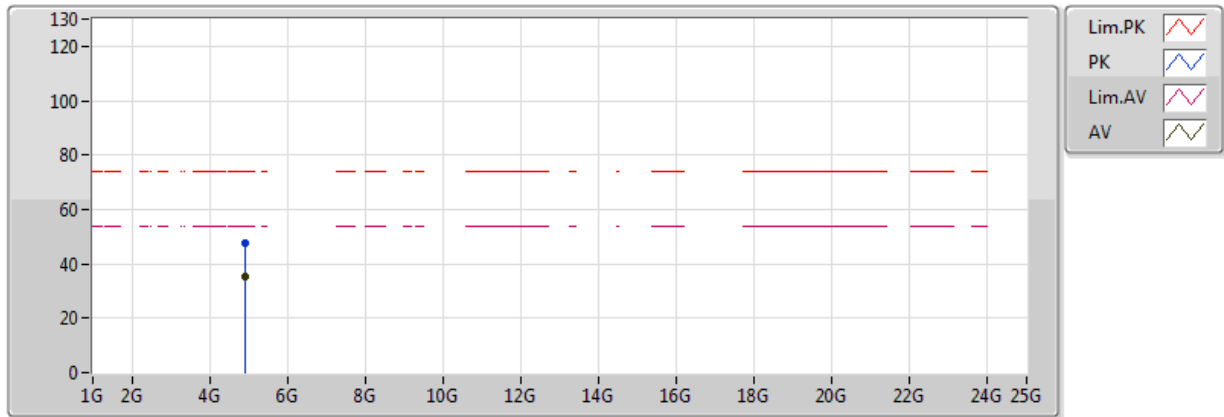


20170502
EUT X 4TX ANT Dipole
Setting 56
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.456G	110.76	Inf	-Inf	32.07	3	V	277	1.07	-
AV	2.4844G	53.96	54.00	-0.04	32.14	3	V	277	1.07	-
PK	2.4558G	118.90	Inf	-Inf	32.07	3	V	277	1.07	-
PK	2.4836G	65.82	74.00	-8.18	32.14	3	V	277	1.07	-

802.11g_(6Mbps)_4TX

2462MHz_TX

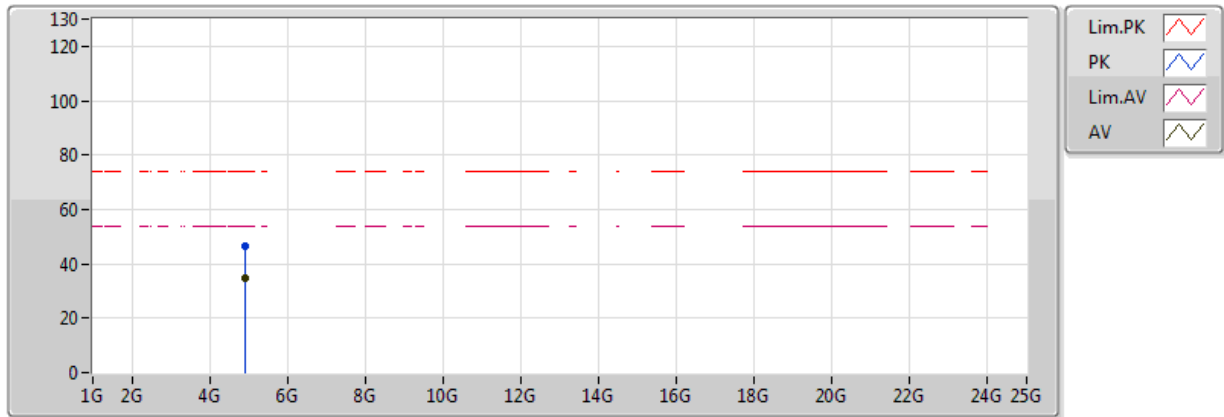


20170502
EUT X 4TX ANT Dipole
Setting 56
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92816G	35.04	54.00	-18.96	4.93	3	V	262	2.27	-
PK	4.92432G	47.65	74.00	-26.35	4.92	3	V	262	2.27	-

802.11g_(6Mbps)_4TX

2462MHz_TX

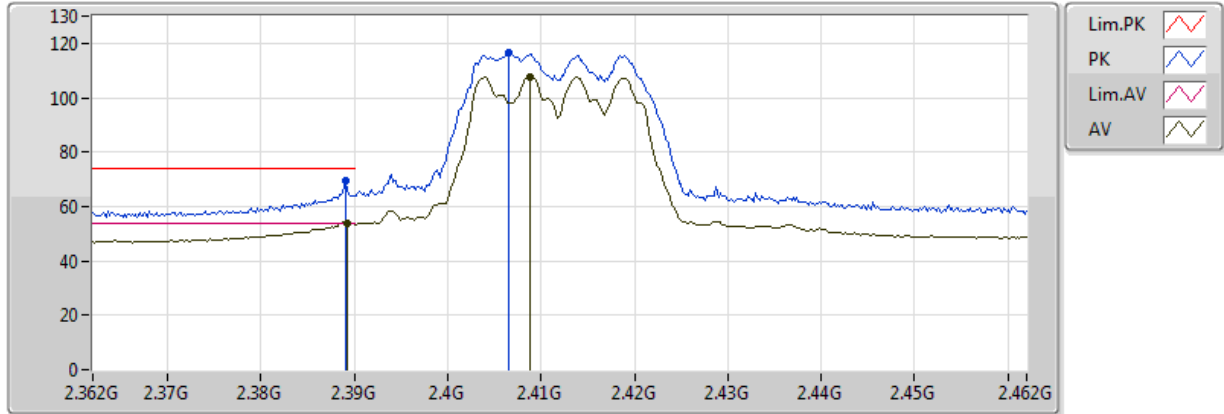


20170502
EUT X 4TX ANT Dipole
Setting 56
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.927G	34.96	54.00	-19.04	4.93	3	H	311	1.04	-
PK	4.92248G	46.64	74.00	-27.36	4.92	3	H	311	1.04	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

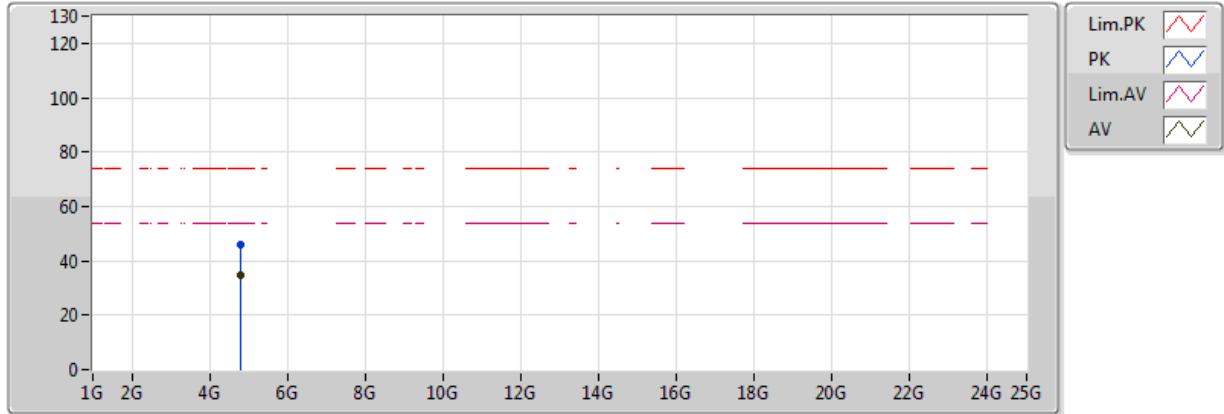


20170502
EUT X 4TX ANT Dipole
Setting 50
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3892G	53.98	54.00	-0.02	31.91	3	V	280	1.01	-
AV	2.4088G	107.64	Inf	-Inf	31.96	3	V	280	1.01	-
PK	2.389G	69.26	74.00	-4.74	31.91	3	V	280	1.01	-
PK	2.4066G	116.45	Inf	-Inf	31.96	3	V	280	1.01	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

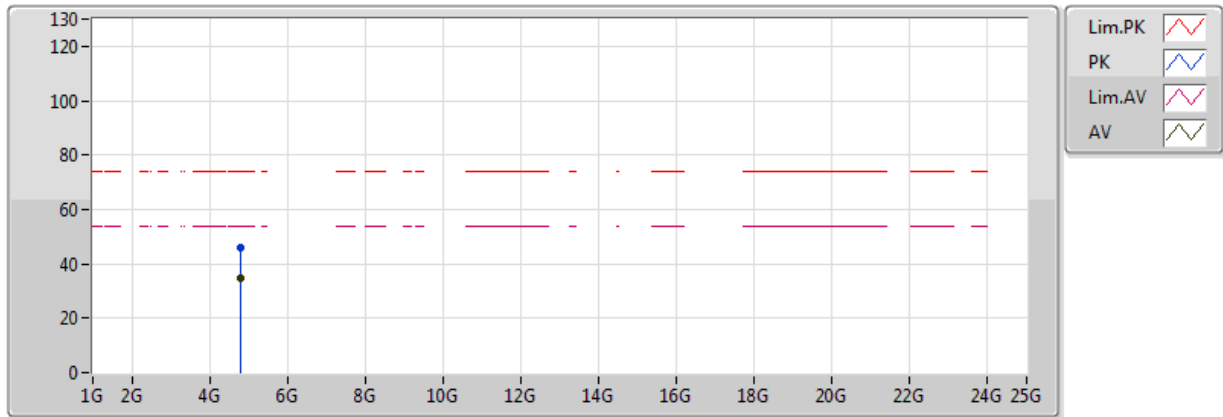


20170502
EUT X 4TX ANT Dipole
Setting 50
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.81692G	34.48	54.00	-19.52	4.70	3	V	56	2.18	-
PK	4.815G	46.14	74.00	-27.86	4.70	3	V	56	2.18	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

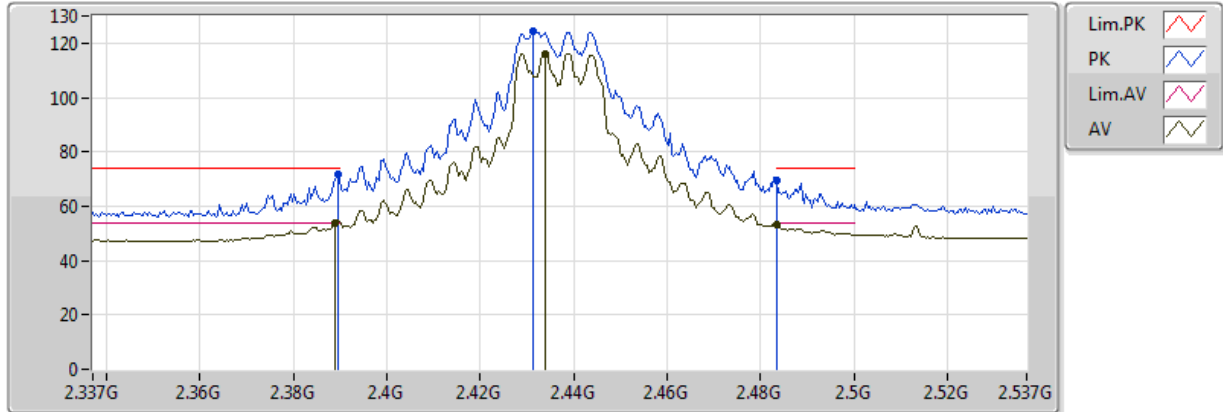


20170502
EUT X 4TX ANT Dipole
Setting 50
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.81516G	34.49	54.00	-19.51	4.70	3	H	218	2.42	-
PK	4.81636G	45.90	74.00	-28.10	4.70	3	H	218	2.42	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

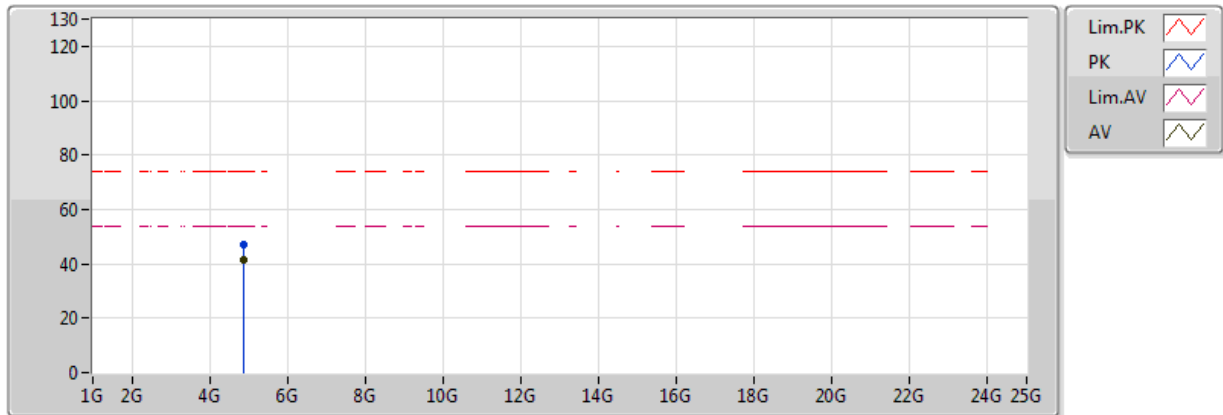


20170502
EUT X 4TX ANT Dipole
Setting 85
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389G	53.99	54.00	-0.01	31.91	3	V	281	1.11	-
AV	2.4338G	116.15	Inf	-Inf	32.02	3	V	281	1.11	-
AV	2.483502G	53.50	54.00	-0.50	32.14	3	V	281	1.11	-
PK	2.3894G	71.66	74.00	-2.34	31.91	3	V	281	1.11	-
PK	2.4314G	124.46	Inf	-Inf	32.02	3	V	281	1.11	-
PK	2.483502G	69.63	74.00	-4.37	32.14	3	V	281	1.11	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

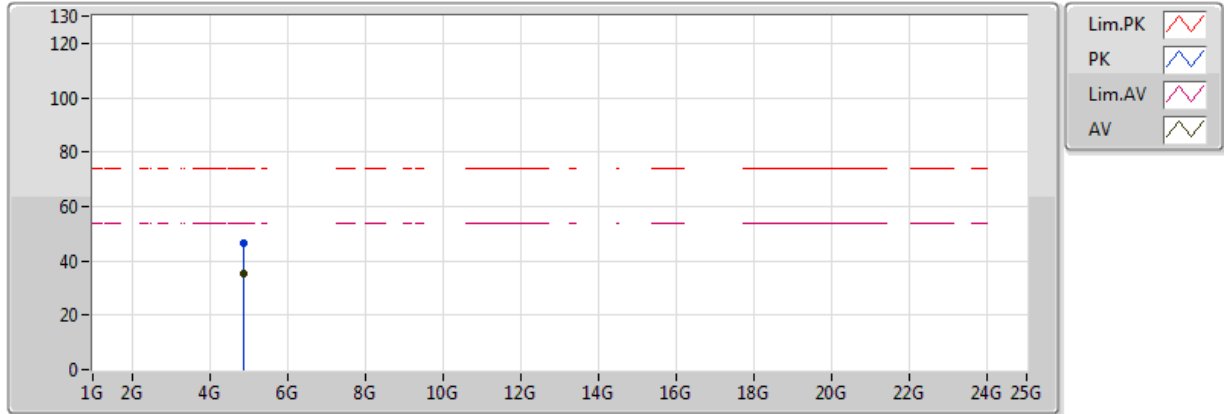


20170502
EUT X 4TX ANT Dipole
Setting 85
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87352G	41.62	54.00	-12.38	4.82	3	V	343	1.23	-
PK	4.87272G	46.95	74.00	-27.05	4.82	3	V	343	1.23	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

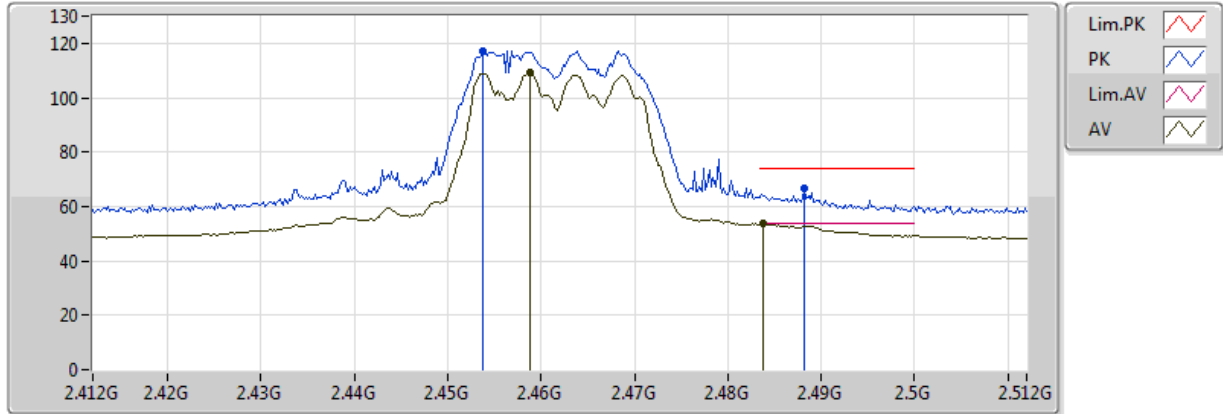


20170502
EUT X 4TX ANT Dipole
Setting 85
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.86032G	35.04	54.00	-18.96	4.79	3	H	214	2.27	-
PK	4.86016G	46.41	74.00	-27.59	4.79	3	H	214	2.27	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

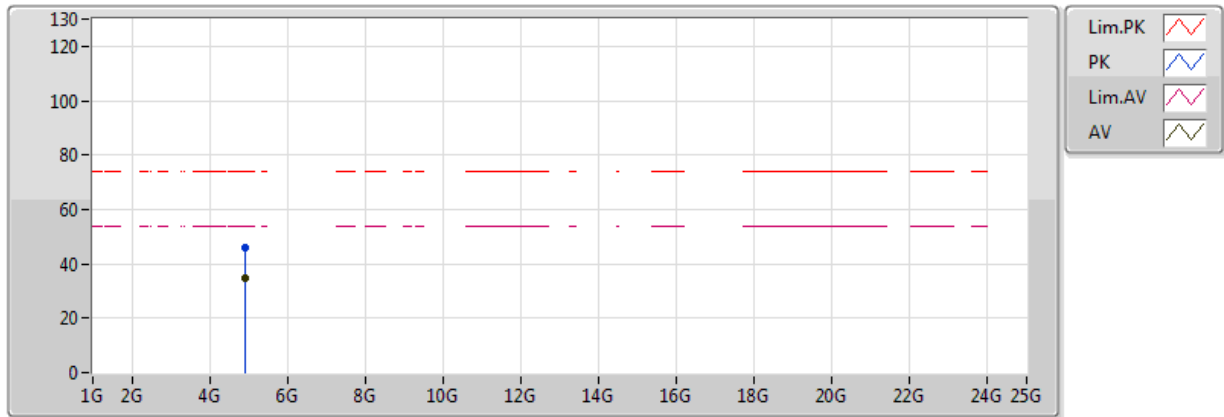


20170502
EUT X 4TX ANT Dipole
Setting 56
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4588G	109.01	Inf	-Inf	32.08	3	V	276	1.14	-
AV	2.4838G	53.78	54.00	-0.22	32.14	3	V	276	1.14	-
PK	2.4538G	117.18	Inf	-Inf	32.07	3	V	276	1.14	-
PK	2.4882G	66.59	74.00	-7.41	32.15	3	V	276	1.14	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

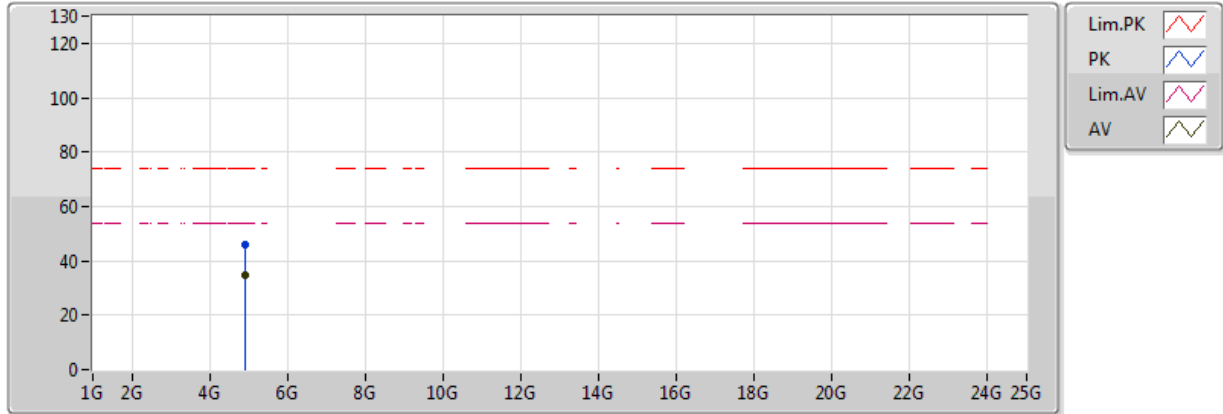


20170502
EUT X 4TX ANT Dipole
Setting 56
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92572G	34.68	54.00	-19.32	4.93	3	V	162	2.45	-
PK	4.92704G	45.89	74.00	-28.11	4.93	3	V	162	2.45	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

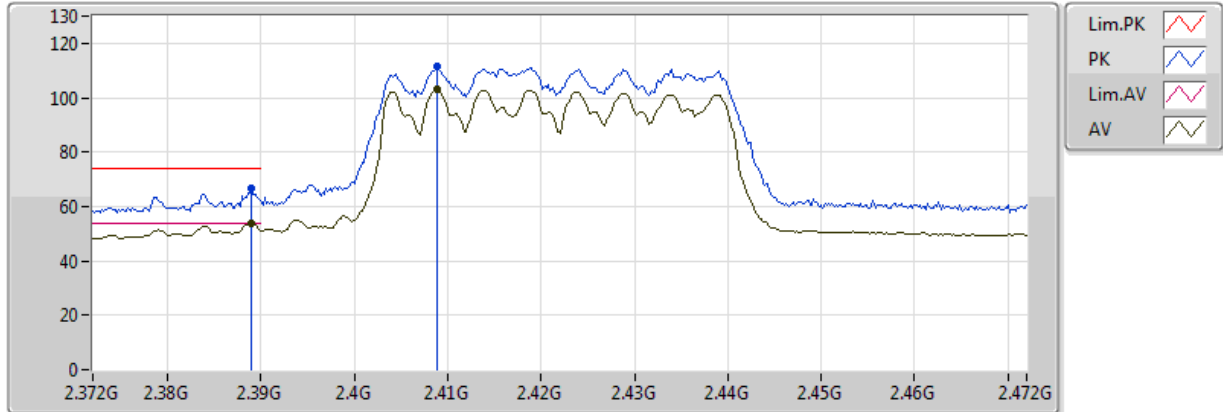


20170502
EUT X 4TX ANT Dipole
Setting 56
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.921G	34.49	54.00	-19.51	4.92	3	H	53	2.00	-
PK	4.92664G	45.91	74.00	-28.09	4.93	3	H	53	2.00	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

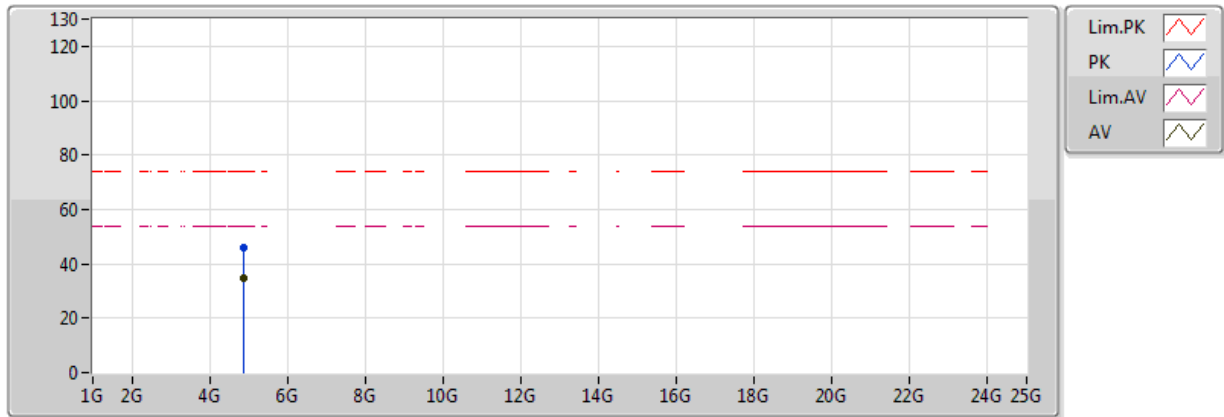


20170502
EUT X 4TX ANT Dipole
Setting 41
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389G	53.96	54.00	-0.04	31.91	3	V	281	1.01	-
AV	2.4088G	102.91	Inf	-Inf	31.96	3	V	281	1.01	-
PK	2.389G	66.82	74.00	-7.18	31.91	3	V	281	1.01	-
PK	2.4088G	111.31	Inf	-Inf	31.96	3	V	281	1.01	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

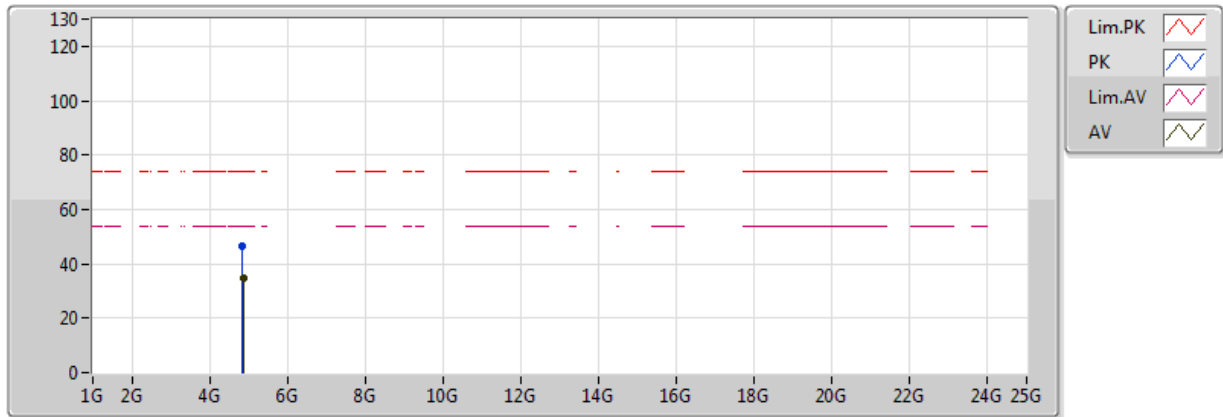


20170502
EUT X 4TX ANT Dipole
Setting 41
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.86264G	34.79	54.00	-19.21	4.80	3	V	21	1.53	-
PK	4.862G	46.15	74.00	-27.85	4.79	3	V	21	1.53	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

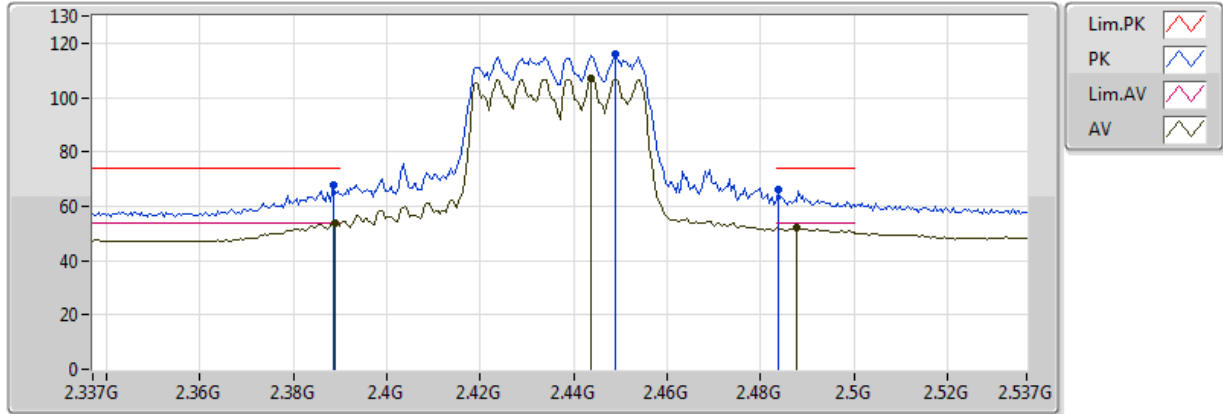


20170502
EUT X 4TX ANT Dipole
Setting 41
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8592G	34.78	54.00	-19.22	4.79	3	H	158	2.31	-
PK	4.84048G	46.68	74.00	-27.32	4.75	3	H	158	2.31	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

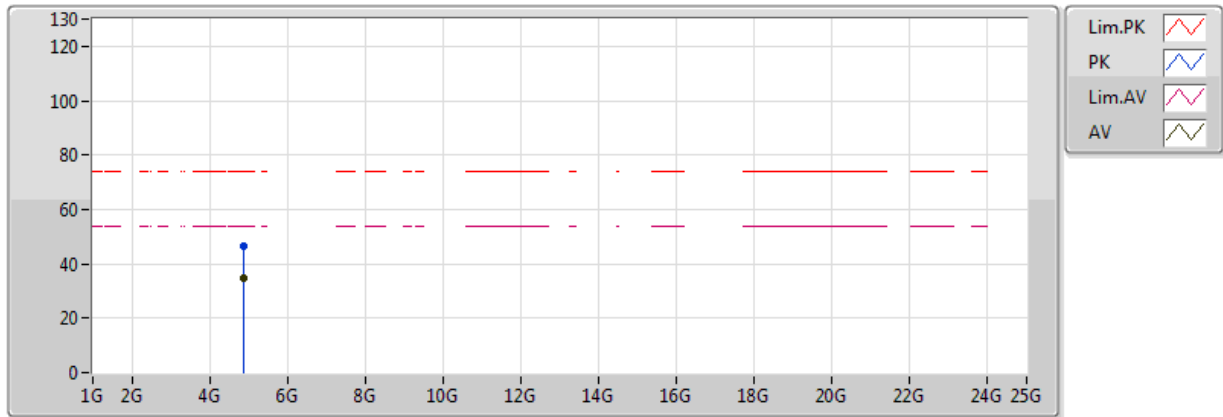


20170502
EUT X 4TX ANT Dipole
Setting 58
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389G	53.99	54.00	-0.01	31.91	3	V	279	1.08	-
AV	2.4438G	106.92	Inf	-Inf	32.05	3	V	279	1.08	-
AV	2.4878G	52.32	54.00	-1.68	32.15	3	V	279	1.08	-
PK	2.3886G	67.75	74.00	-6.25	31.91	3	V	279	1.08	-
PK	2.449G	115.83	Inf	-Inf	32.06	3	V	279	1.08	-
PK	2.4838G	66.33	74.00	-7.67	32.14	3	V	279	1.08	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

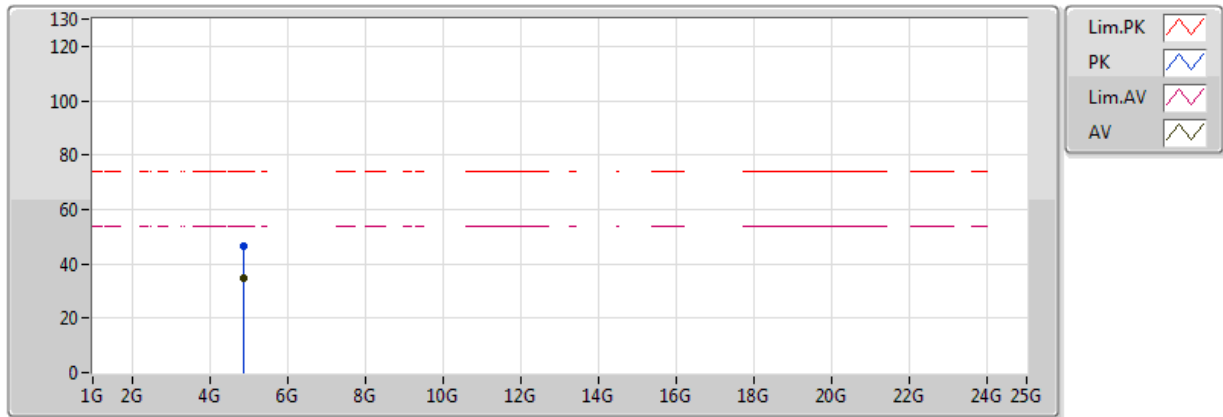


20170502
EUT X 4TX ANT Dipole
Setting 58
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.86216G	34.79	54.00	-19.21	4.79	3	V	222	2.49	-
PK	4.88224G	46.39	74.00	-27.61	4.83	3	V	222	2.49	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

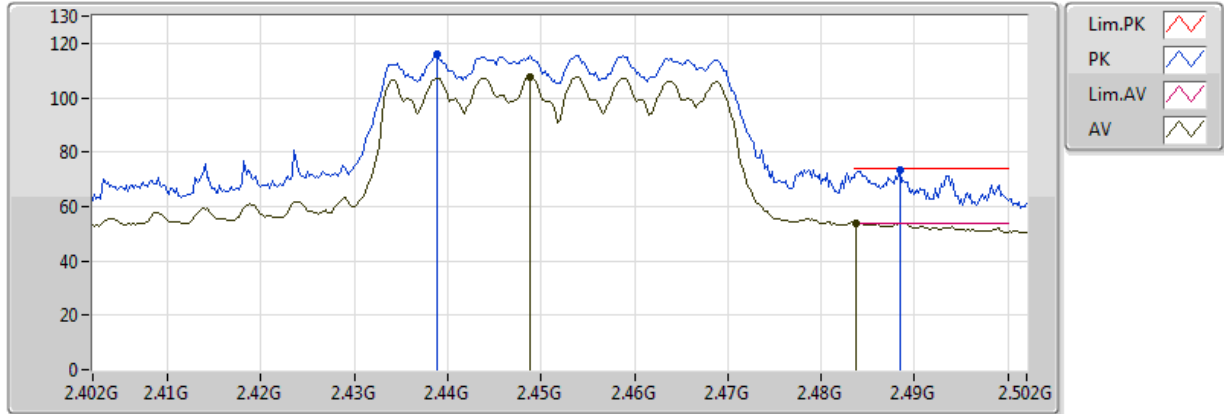


20170502
EUT X 4TX ANT Dipole
Setting 58
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.86048G	34.91	54.00	-19.09	4.79	3	H	9	1.62	-
PK	4.86184G	46.49	74.00	-27.51	4.79	3	H	9	1.62	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

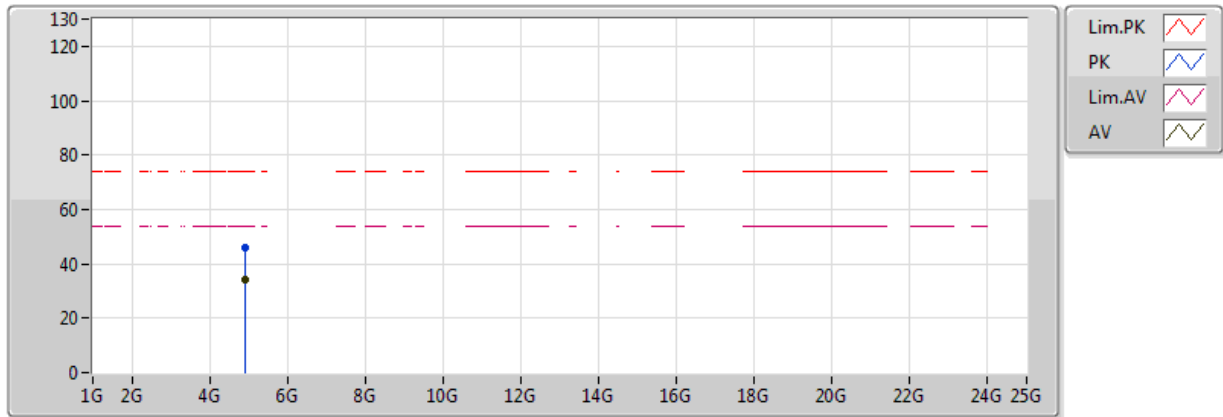


20170502
EUT X 4TX ANT Dipole
Setting 60
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4488G	107.43	Inf	-Inf	32.06	3	V	279	1.05	-
AV	2.4838G	53.99	54.00	-0.01	32.14	3	V	279	1.05	-
PK	2.4388G	116.08	Inf	-Inf	32.03	3	V	279	1.05	-
PK	2.4884G	73.60	74.00	-0.40	32.15	3	V	279	1.05	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

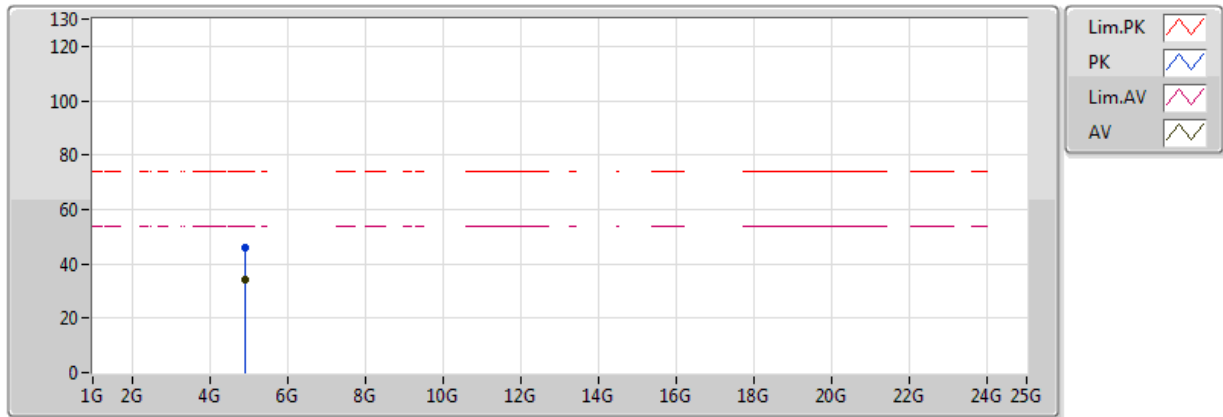


20170502
EUT X 4TX ANT Dipole
Setting 60
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.90912G	34.23	54.00	-19.77	4.89	3	V	292	1.31	-
PK	4.91864G	45.90	74.00	-28.10	4.91	3	V	292	1.31	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

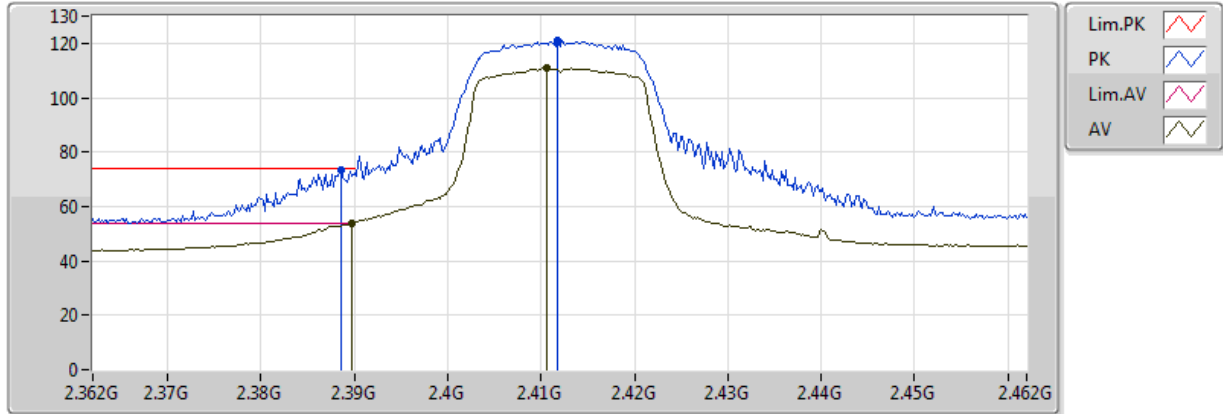


20170502
EUT X 4TX ANT Dipole
Setting 60
03-Z-1
FSV(101027)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9164G	34.30	54.00	-19.70	4.91	3	H	347	2.46	-
PK	4.91768G	46.21	74.00	-27.79	4.91	3	H	347	2.46	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

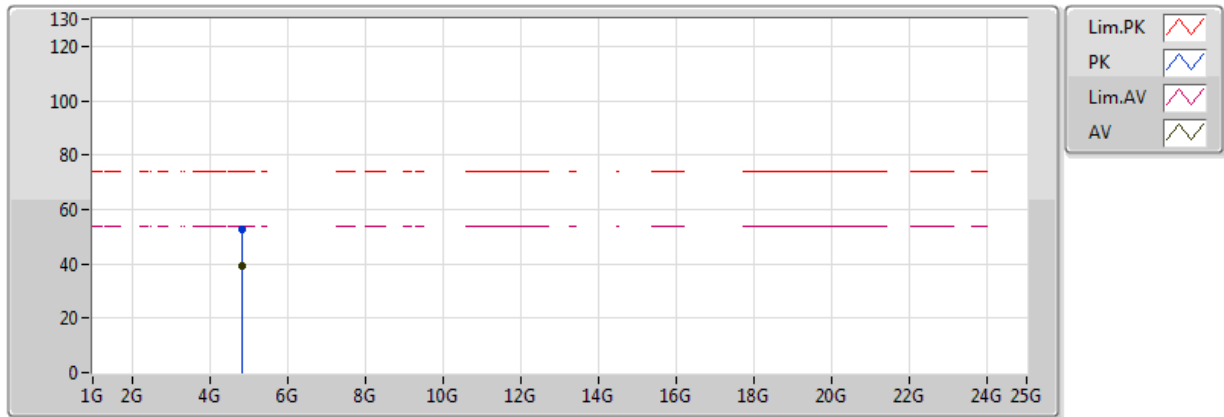


20170605
EUT X 4TX ANT Dipole
Setting 60
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	53.94	54.00	-0.06	31.94	3	V	285	1.34	-
AV	2.4106G	110.83	Inf	-Inf	32.00	3	V	285	1.34	-
PK	2.3886G	73.17	74.00	-0.83	31.93	3	V	285	1.34	-
PK	2.4118G	120.93	Inf	-Inf	32.01	3	V	285	1.34	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

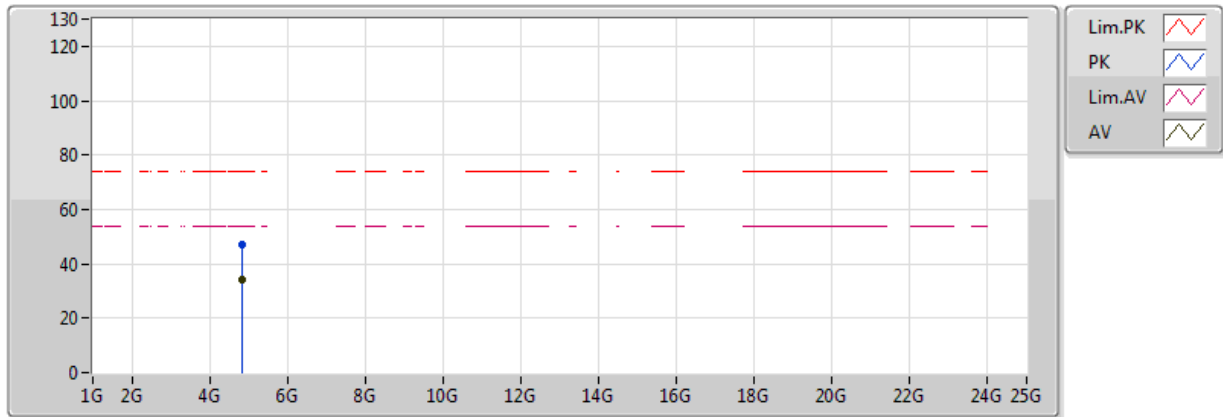


20170605
EUT X 4TX ANT Dipole
Setting 60
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82702G	38.96	54.00	-15.04	8.09	3	V	357	2.35	-
PK	4.82412G	52.59	74.00	-21.41	8.08	3	V	357	2.35	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

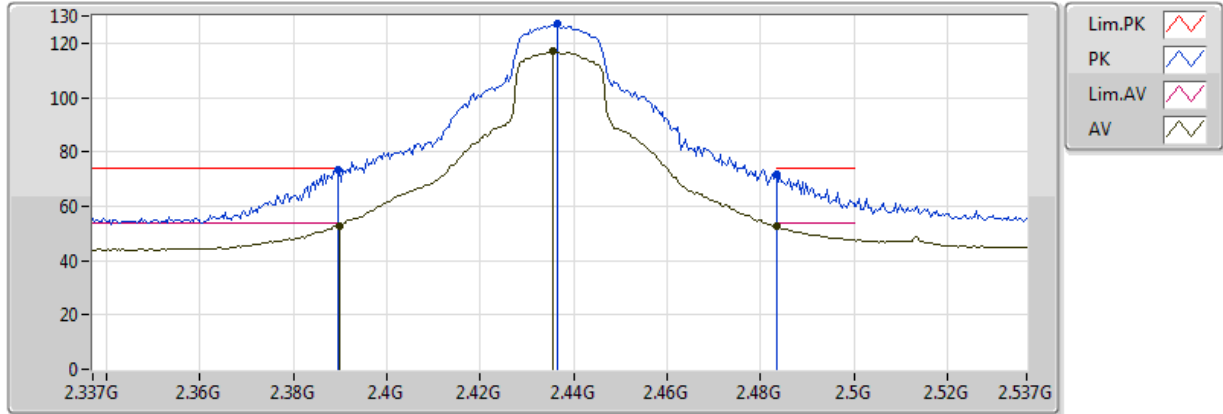


20170605
EUT X 4TX ANT Dipole
Setting 60
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.829G	33.99	54.00	-20.01	8.10	3	H	210	1.42	-
PK	4.82544G	47.27	74.00	-26.73	8.09	3	H	210	1.42	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

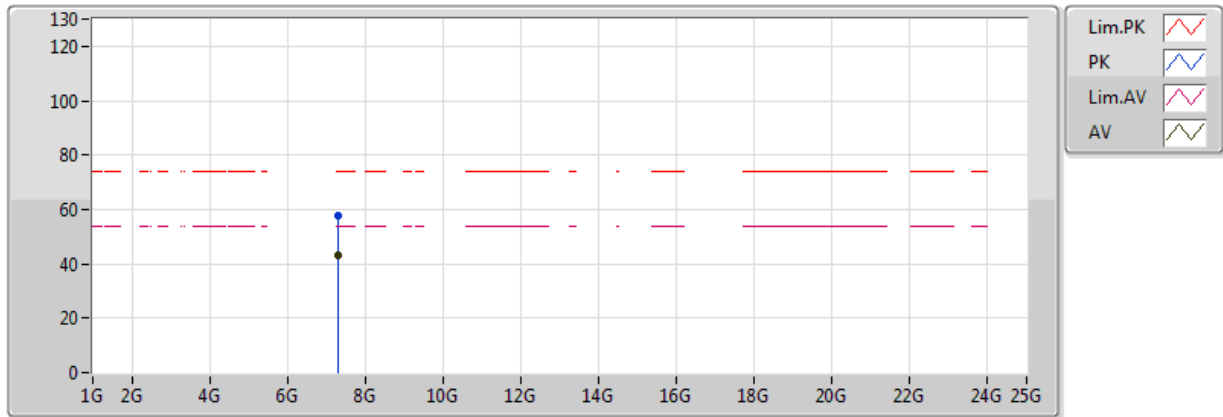


20170605
EUT X 4TX ANT Dipole
Setting 88
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	52.90	54.00	-1.10	31.94	3	V	280	1.32	-
AV	2.4354G	116.89	Inf	-Inf	32.08	3	V	280	1.32	-
AV	2.483502G	52.74	54.00	-1.26	32.22	3	V	280	1.32	-
PK	2.3894G	73.56	74.00	-0.44	31.94	3	V	280	1.32	-
PK	2.4366G	126.93	Inf	-Inf	32.08	3	V	280	1.32	-
PK	2.483502G	71.50	74.00	-2.50	32.22	3	V	280	1.32	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

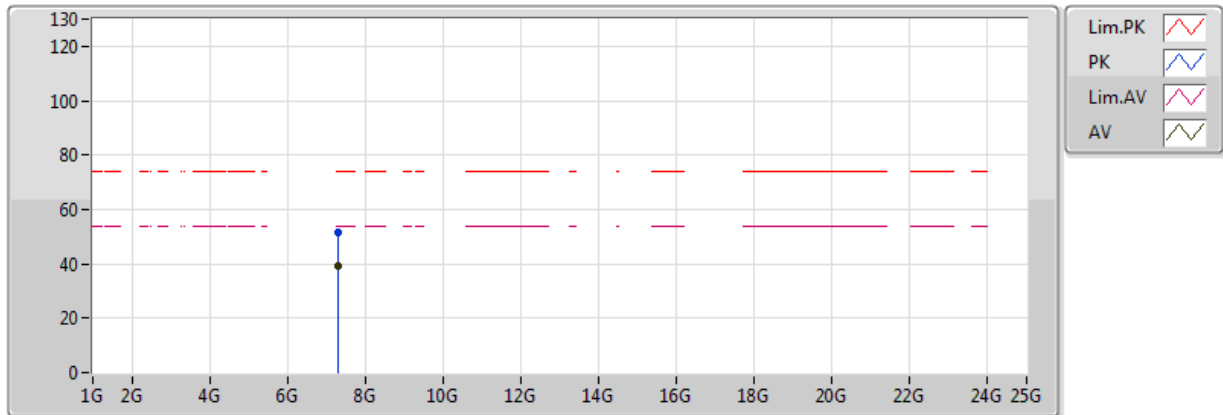


20170605
EUT X 4TX ANT Dipole
Setting 88
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	7.3114G	43.12	54.00	-10.88	12.19	3	V	355	1.44	-
PK	7.30904G	57.57	74.00	-16.43	12.19	3	V	355	1.44	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

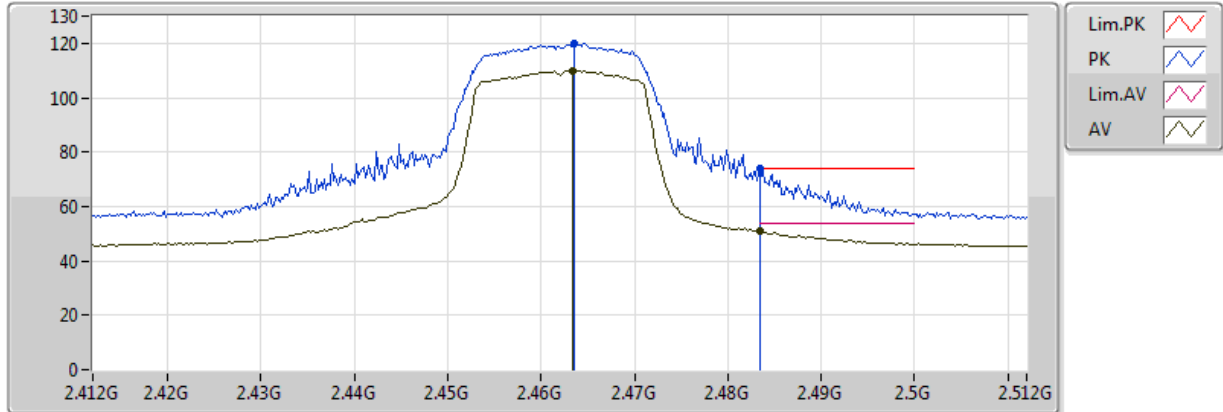


20170605
EUT X 4TX ANT Dipole
Setting 88
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	7.3102G	38.99	54.00	-15.01	12.19	3	H	80	1.77	-
PK	7.31592G	51.34	74.00	-22.66	12.20	3	H	80	1.77	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

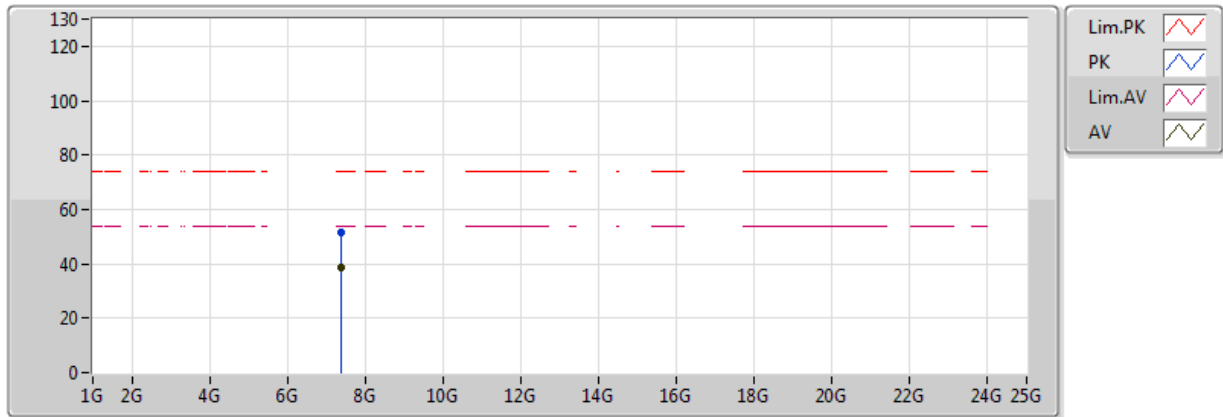


20170605
EUT X 4TX ANT Dipole
Setting 60
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4634G	109.92	Inf	-Inf	32.16	3	V	284	1.44	-
AV	2.483502G	50.96	54.00	-3.04	32.22	3	V	284	1.44	-
PK	2.4636G	120.14	Inf	-Inf	32.16	3	V	284	1.44	-
PK	2.483502G	73.96	74.00	-0.04	32.22	3	V	284	1.44	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

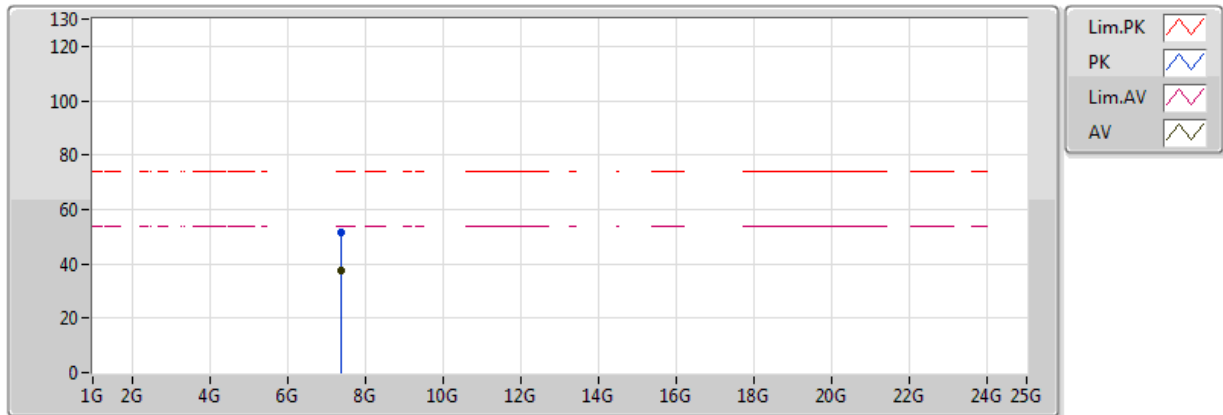


20170605
EUT X 4TX ANT Dipole
Setting 60
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	7.386G	38.89	54.00	-15.11	12.35	3	V	346	1.07	-
PK	7.386G	51.78	74.00	-22.22	12.35	3	V	346	1.07	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

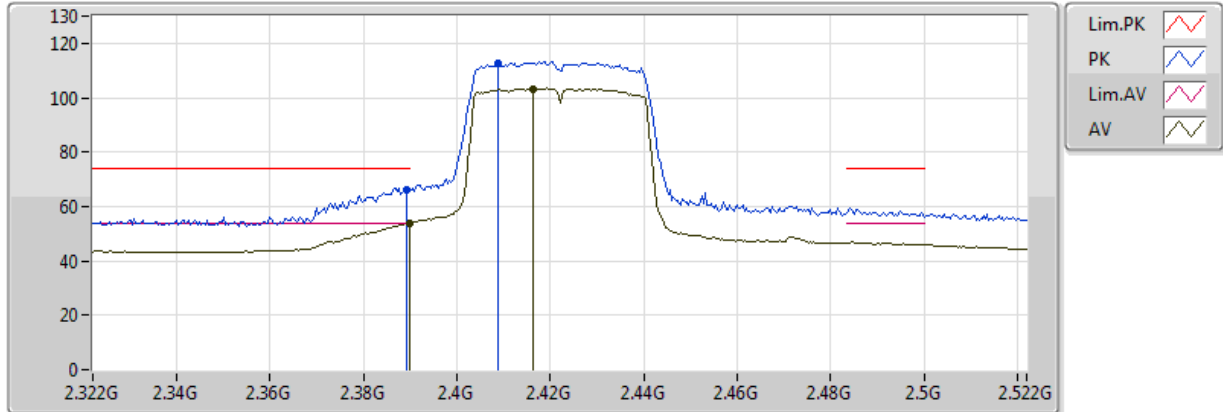


20170605
EUT X 4TX ANT Dipole
Setting 60
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	7.39232G	37.58	54.00	-16.42	12.36	3	H	197	2.37	-
PK	7.3908G	51.51	74.00	-22.49	12.36	3	H	197	2.37	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

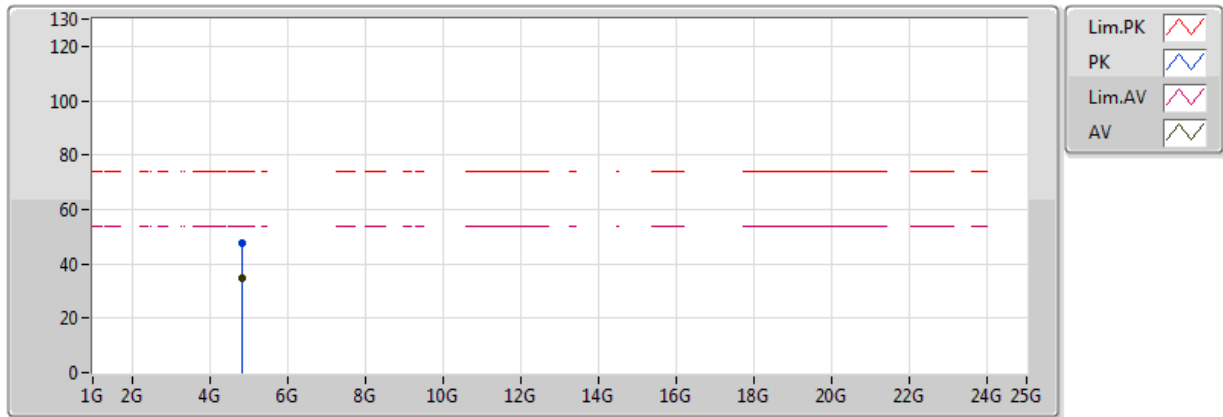


20170605
EUT X 4TX ANT Dipole
Setting 48
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	53.97	54.00	-0.03	31.94	3	V	283	1.49	-
AV	2.4164G	102.98	Inf	-Inf	32.02	3	V	283	1.49	-
PK	2.3892G	66.28	74.00	-7.72	31.94	3	V	283	1.49	-
PK	2.4088G	112.90	Inf	-Inf	32.00	3	V	283	1.49	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

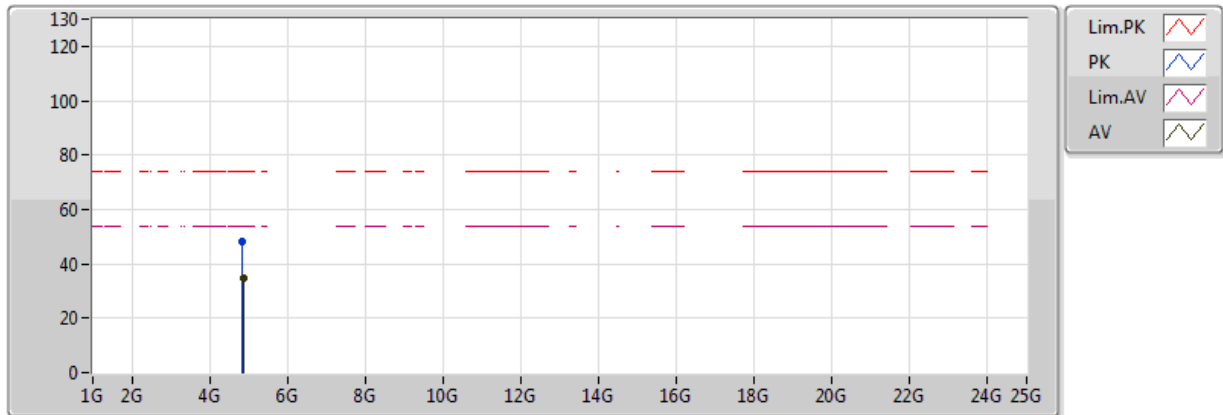


20170605
EUT X 4TX ANT Dipole
Setting 48
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.85184G	34.50	54.00	-19.50	8.17	3	V	38	1.83	-
PK	4.85632G	47.89	74.00	-26.11	8.18	3	V	38	1.83	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

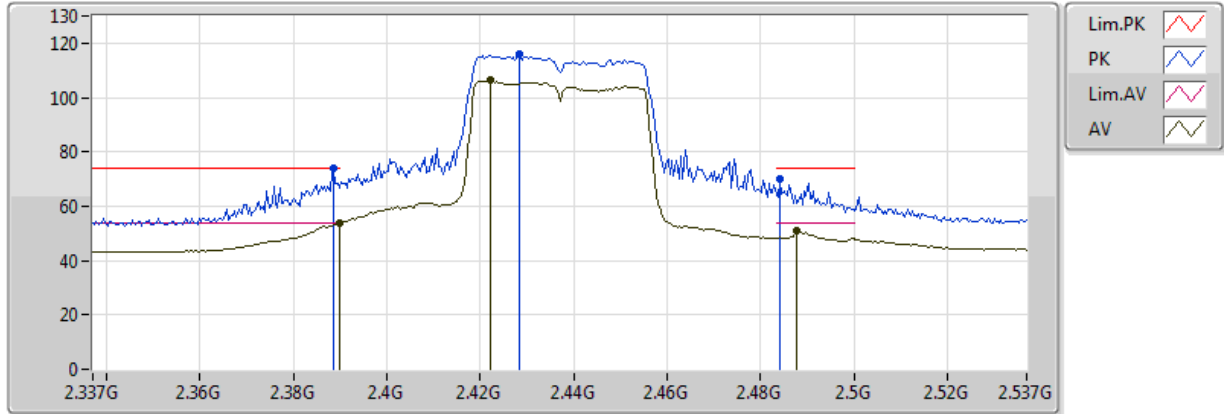


20170605
EUT X 4TX ANT Dipole
Setting 48
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.85704G	34.55	54.00	-19.45	8.19	3	H	216	1.64	-
PK	4.84104G	48.19	74.00	-25.81	8.14	3	H	216	1.64	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

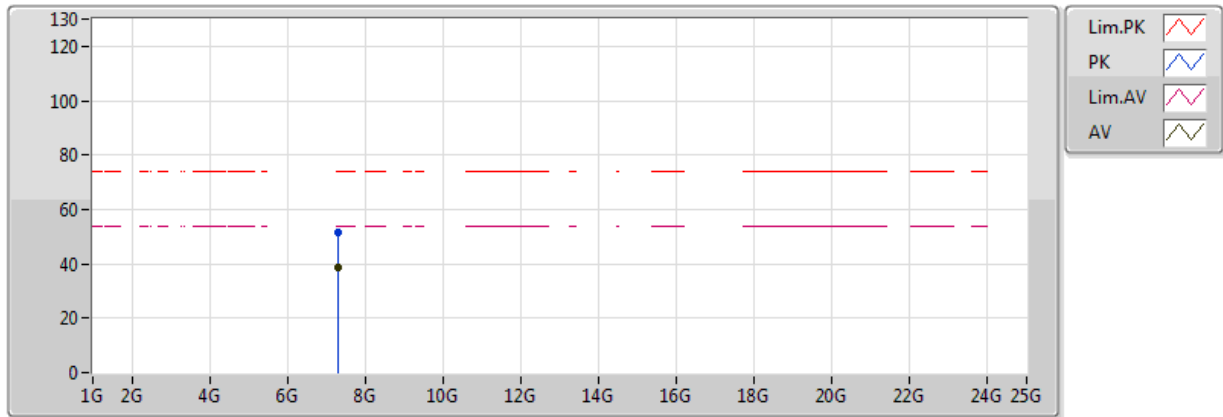


20170605
EUT X 4TX ANT Dipole
Setting 56
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	53.91	54.00	-0.09	31.94	3	V	280	1.01	-
AV	2.4222G	106.67	Inf	-Inf	32.04	3	V	280	1.01	-
AV	2.4878G	51.08	54.00	-2.92	32.23	3	V	280	1.01	-
PK	2.3886G	73.84	74.00	-0.16	31.93	3	V	280	1.01	-
PK	2.4282G	116.03	Inf	-Inf	32.05	3	V	280	1.01	-
PK	2.4842G	70.04	74.00	-3.96	32.22	3	V	280	1.01	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

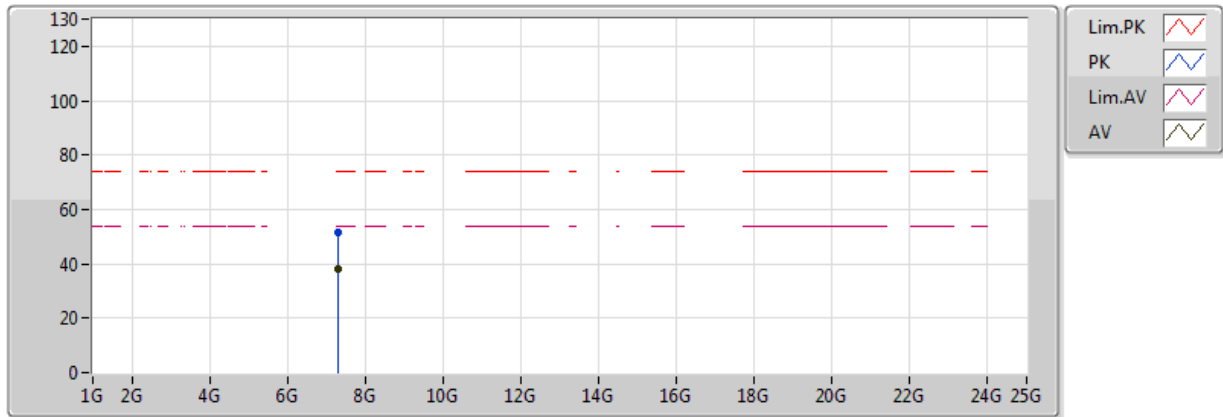


20170605
EUT X 4TX ANT Dipole
Setting 56
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	7.32268G	38.49	54.00	-15.51	12.22	3	V	124	1.38	-
PK	7.31316G	51.74	74.00	-22.26	12.20	3	V	124	1.38	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

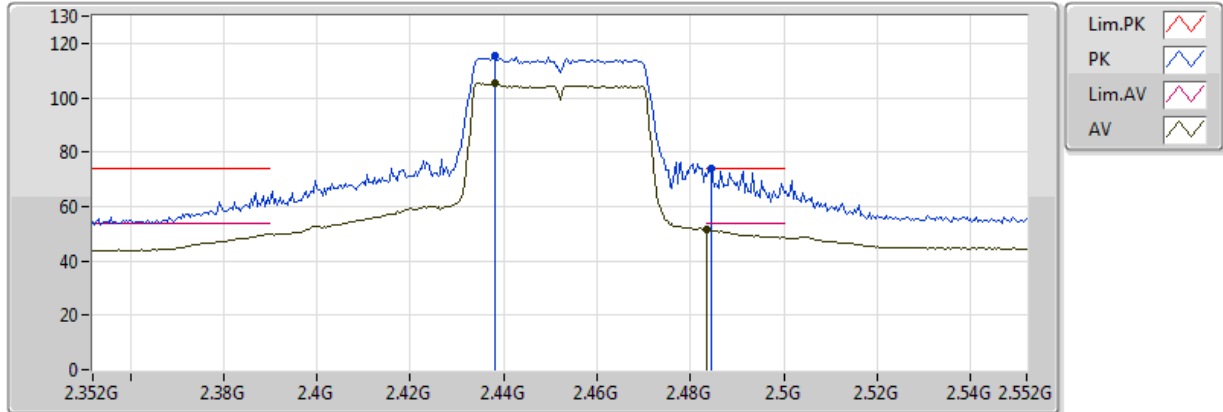


20170605
EUT X 4TX ANT Dipole
Setting 56
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	7.31012G	38.25	54.00	-15.75	12.19	3	H	349	1.55	-
PK	7.30284G	51.37	74.00	-22.63	12.18	3	H	349	1.55	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

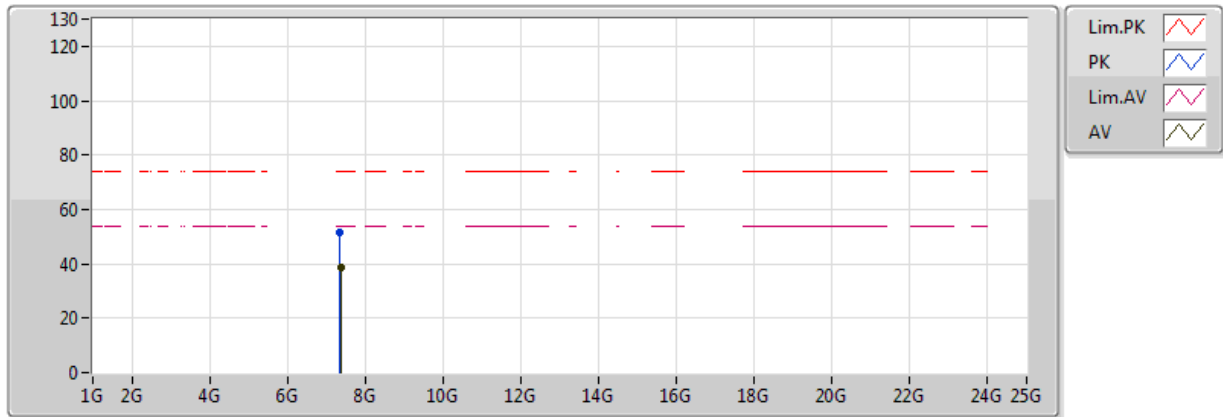


20170605
EUT X 4TX ANT Dipole
Setting 55
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.438G	105.31	Inf	-Inf	32.08	3	V	280	1.00	-
AV	2.4836G	51.77	54.00	-2.23	32.22	3	V	280	1.00	-
PK	2.438G	115.35	Inf	-Inf	32.08	3	V	280	1.00	-
PK	2.4844G	73.95	74.00	-0.05	32.22	3	V	280	1.00	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

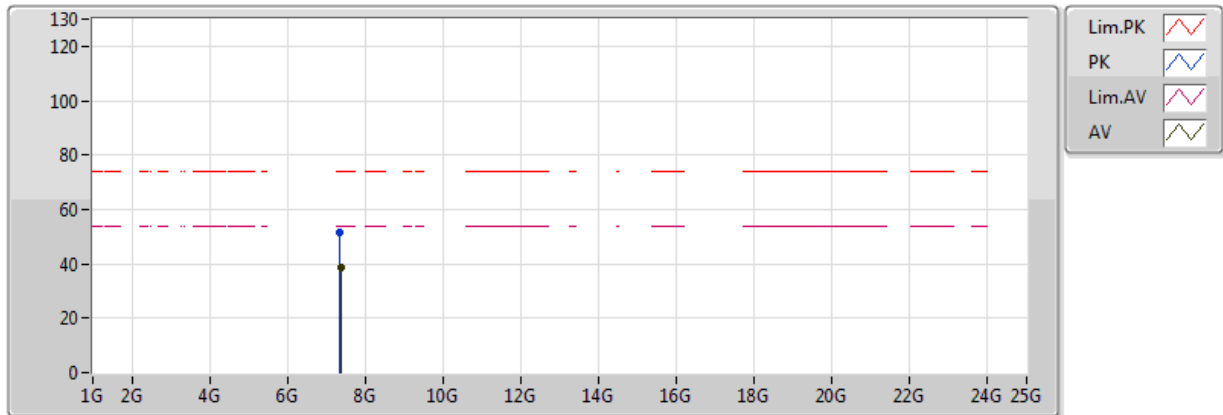


20170605
EUT X 4TX ANT Dipole
Setting 55
02-Z-1
FSP(100056)
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	7.37408G	38.46	54.00	-15.54	12.33	3	V	56	2.04	-
PK	7.3504G	51.50	74.00	-22.50	12.28	3	V	56	2.04	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX



20170605
EUT X 4TX ANT Dipole
Setting 55
02-Z-1
FSP(100056)
TXBF

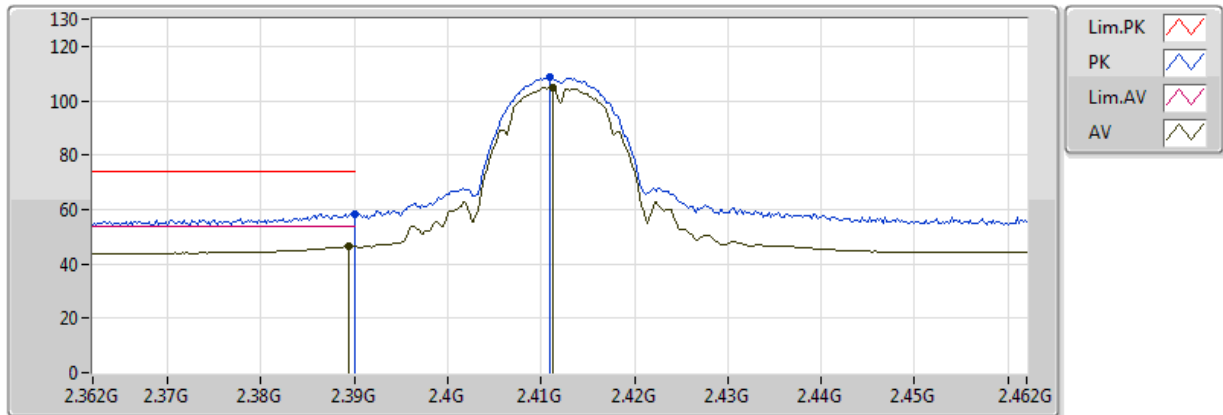
Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	7.37264G	38.50	54.00	-15.50	12.32	3	H	339	2.00	-
PK	7.34032G	51.59	74.00	-22.41	12.25	3	H	339	2.00	-

For Mode 2 (Antenna Set 2 with Gray Cable):
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.39G	53.99	54.00	-0.01	31.91	3	H	312	1.09	-

802.11b_(1Mbps)_4TX

2412MHz_TX

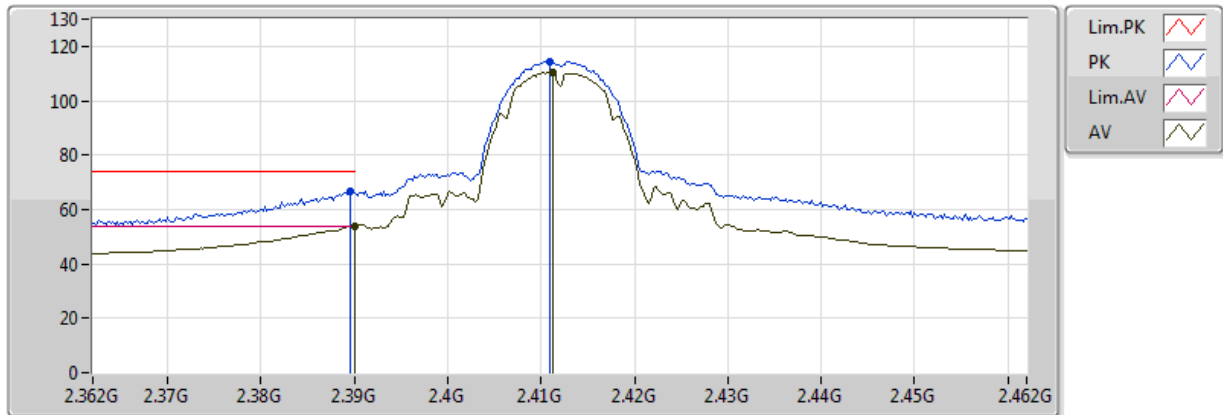


20170506
EUT_Z_4TX
Setting 83
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3894G	46.47	54.00	-7.53	31.91	3	V	112	2.83	-
AV	2.4112G	104.67	Inf	-Inf	31.97	3	V	112	2.83	-
PK	2.39G	58.37	74.00	-15.63	31.91	3	V	112	2.83	-
PK	2.411G	108.58	Inf	-Inf	31.97	3	V	112	2.83	-

802.11b_(1Mbps)_4TX

2412MHz_TX

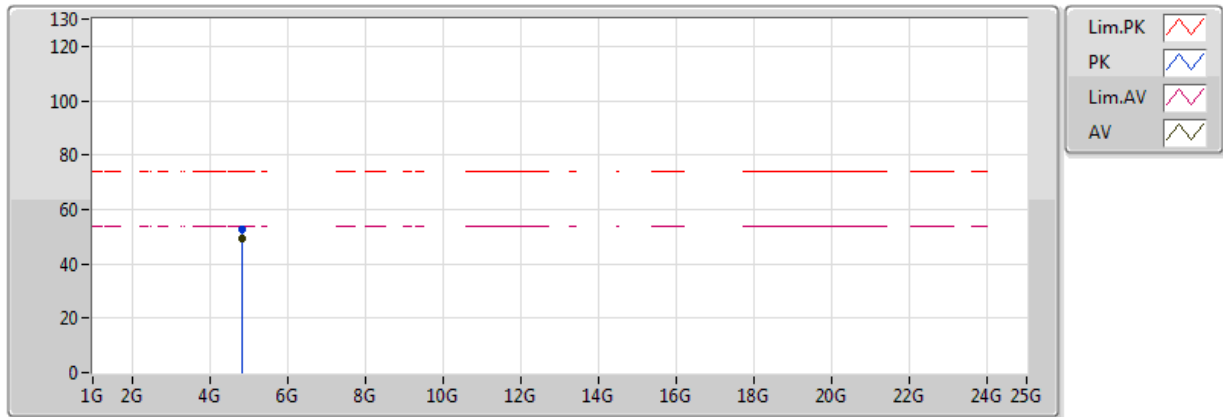


20170506
EUT_Z_4TX
Setting 83
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	53.95	54.00	-0.05	31.91	3	H	314	1.01	-
AV	2.4112G	110.44	Inf	-Inf	31.97	3	H	314	1.01	-
PK	2.3896G	66.56	74.00	-7.44	31.91	3	H	314	1.01	-
PK	2.411G	114.54	Inf	-Inf	31.97	3	H	314	1.01	-

802.11b_(1Mbps)_4TX

2412MHz_TX

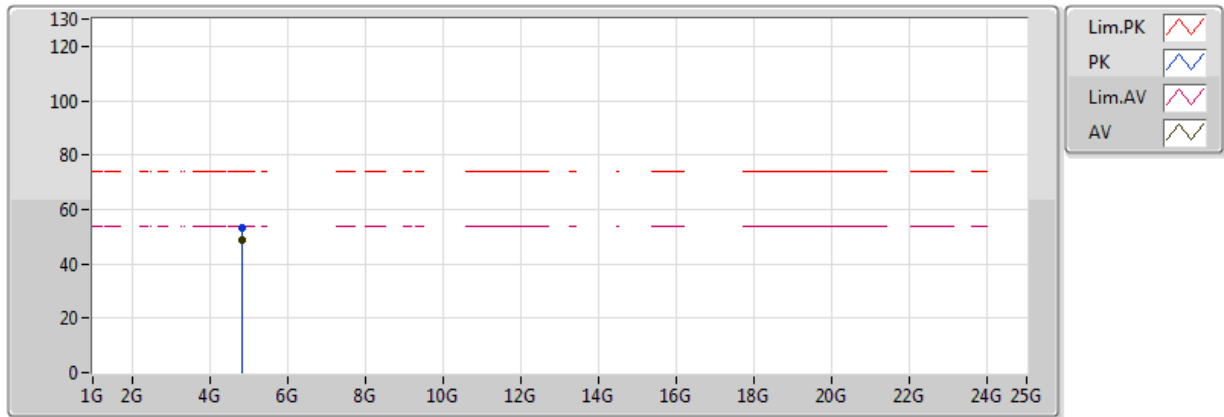


20170506
EUT_Z_4TX
Setting 83
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82422G	49.06	54.00	-4.94	4.72	3	V	72	2.46	-
PK	4.82416G	52.94	74.00	-21.06	4.72	3	V	72	2.46	-

802.11b_(1Mbps)_4TX

2412MHz_TX

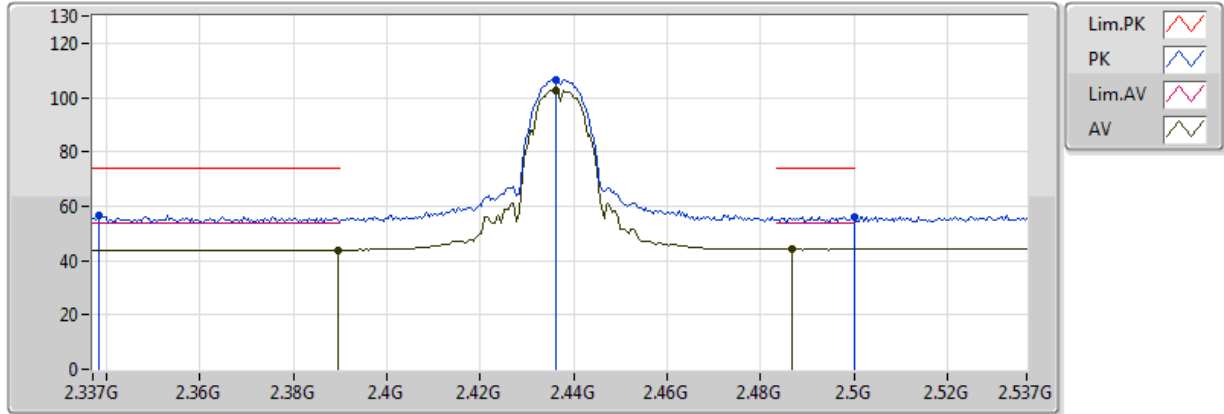


20170506
EUT_Z_4TX
Setting 83
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8242G	48.99	54.00	-5.01	4.72	3	H	295	1.02	-
PK	4.82422G	53.46	74.00	-20.54	4.72	3	H	295	1.02	-

802.11b_(1Mbps)_4TX

2437MHz_TX

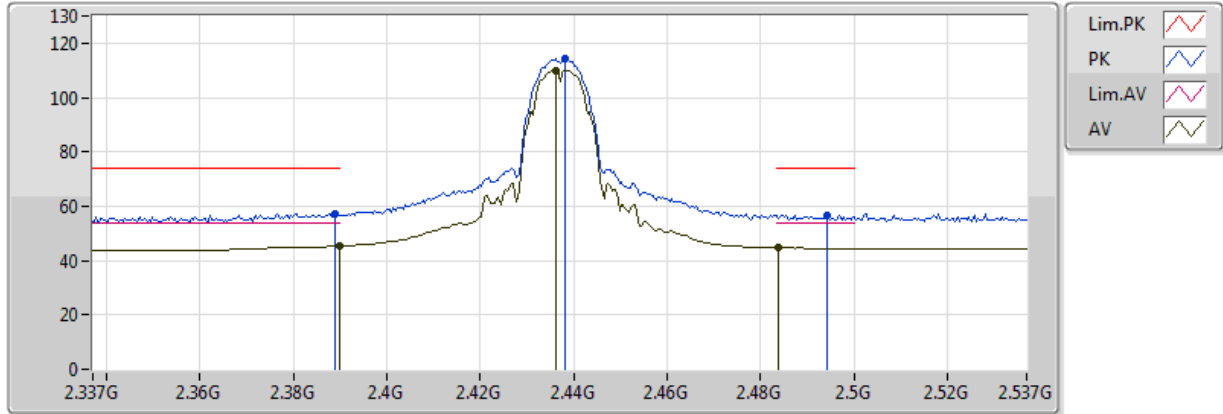


20170506
EUT_Z_4TX
Setting 83
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3894G	43.95	54.00	-10.05	31.91	3	V	183	2.86	-
AV	2.4362G	102.63	Inf	-Inf	32.03	3	V	183	2.86	-
AV	2.4866G	44.13	54.00	-9.87	32.15	3	V	183	2.86	-
PK	2.3382G	56.72	74.00	-17.28	31.78	3	V	183	2.86	-
PK	2.4362G	106.62	Inf	-Inf	32.03	3	V	183	2.86	-
PK	2.499998G	56.26	74.00	-17.74	32.18	3	V	183	2.86	-

802.11b_(1Mbps)_4TX

2437MHz_TX

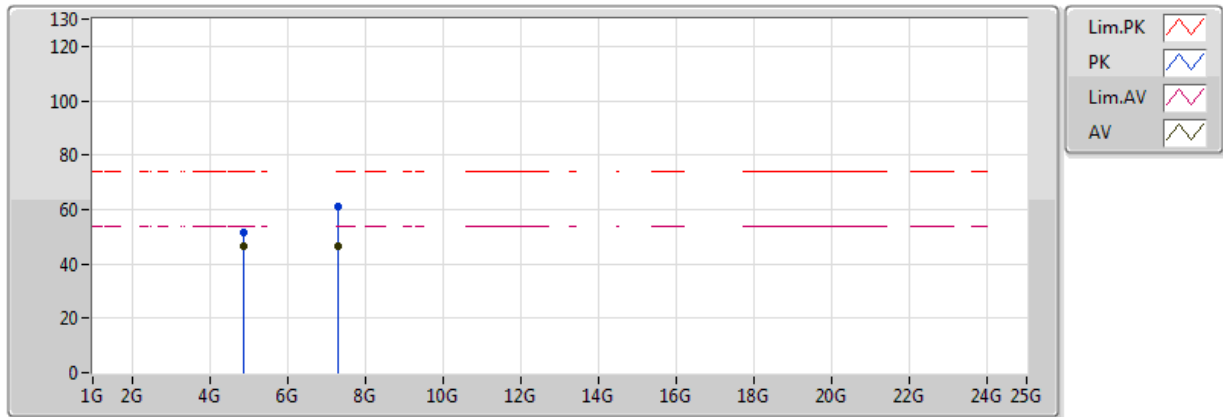


20170506
EUT_Z_4TX
Setting 83
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	45.33	54.00	-8.67	31.91	3	H	319	1.00	-
AV	2.4362G	110.04	Inf	-Inf	32.03	3	H	319	1.00	-
AV	2.4838G	44.66	54.00	-9.34	32.14	3	H	319	1.00	-
PK	2.389G	57.38	74.00	-16.62	31.91	3	H	319	1.00	-
PK	2.4382G	114.22	Inf	-Inf	32.03	3	H	319	1.00	-
PK	2.4942G	56.65	74.00	-17.35	32.17	3	H	319	1.00	-

802.11b_(1Mbps)_4TX

2437MHz_TX

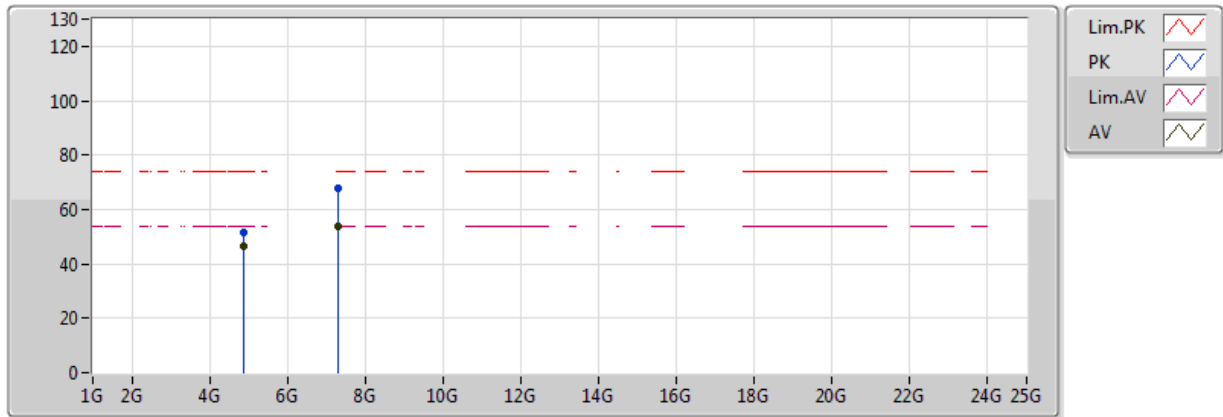


20170506
EUT_Z_4TX
Setting 83
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8742G	46.78	54.00	-7.22	4.82	3	V	72	2.87	-
AV	7.3106G	46.40	54.00	-7.60	8.80	3	V	135	2.91	-
PK	4.87424G	51.55	74.00	-22.45	4.82	3	V	72	2.87	-
PK	7.31136G	61.34	74.00	-12.66	8.80	3	V	135	2.91	-

802.11b_(1Mbps)_4TX

2437MHz_TX

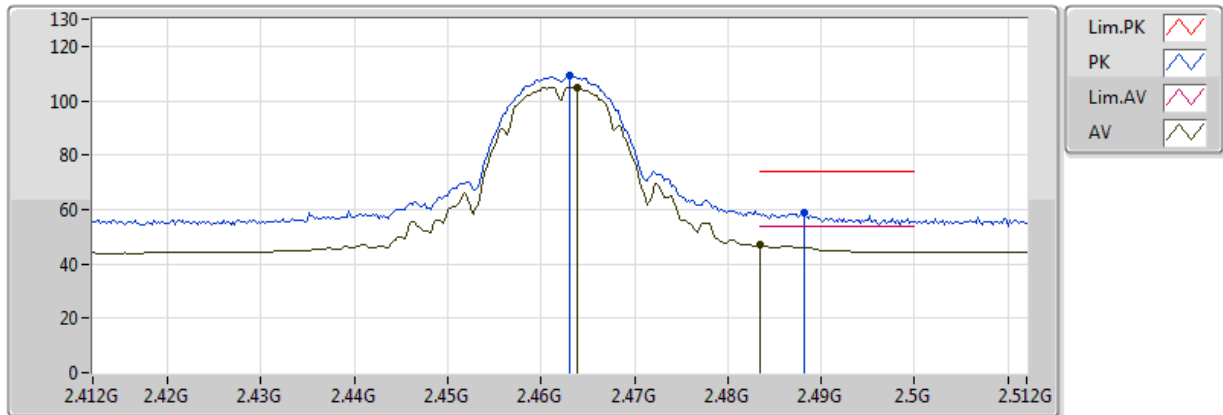


20170506
EUT_Z_4TX
Setting 83
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8742G	46.59	54.00	-7.41	4.82	3	H	290	1.01	-
AV	7.31046G	53.87	54.00	-0.13	8.80	3	H	353	2.76	-
PK	4.8743G	51.55	74.00	-22.45	4.82	3	H	290	1.01	-
PK	7.31118G	68.03	74.00	-5.97	8.80	3	H	353	2.76	-

802.11b_(1Mbps)_4TX

2462MHz_TX

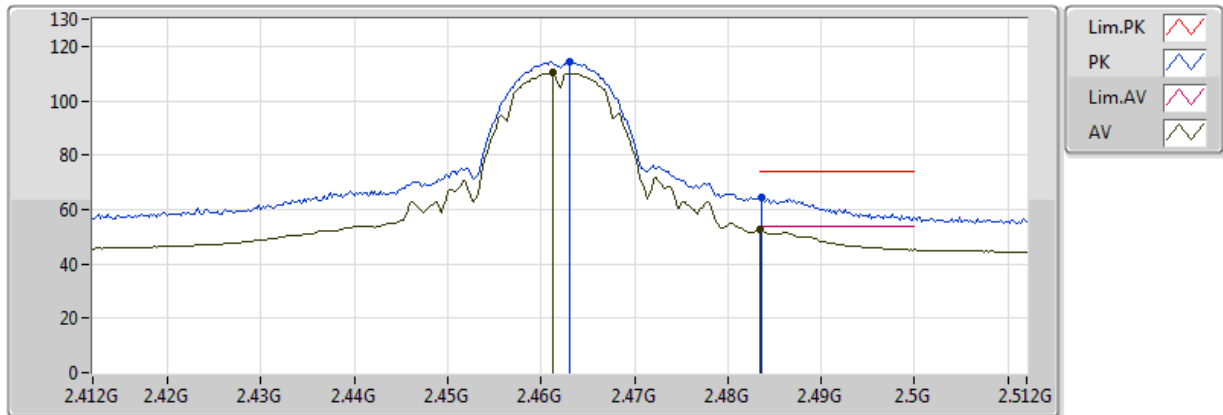


20170506
EUT_Z_4TX
Setting 86
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4638G	105.06	Inf	-Inf	32.09	3	V	111	2.66	-
AV	2.483502G	46.93	54.00	-7.07	32.14	3	V	111	2.66	-
PK	2.463G	109.09	Inf	-Inf	32.09	3	V	111	2.66	-
PK	2.4882G	59.03	74.00	-14.97	32.15	3	V	111	2.66	-

802.11b_(1Mbps)_4TX

2462MHz_TX

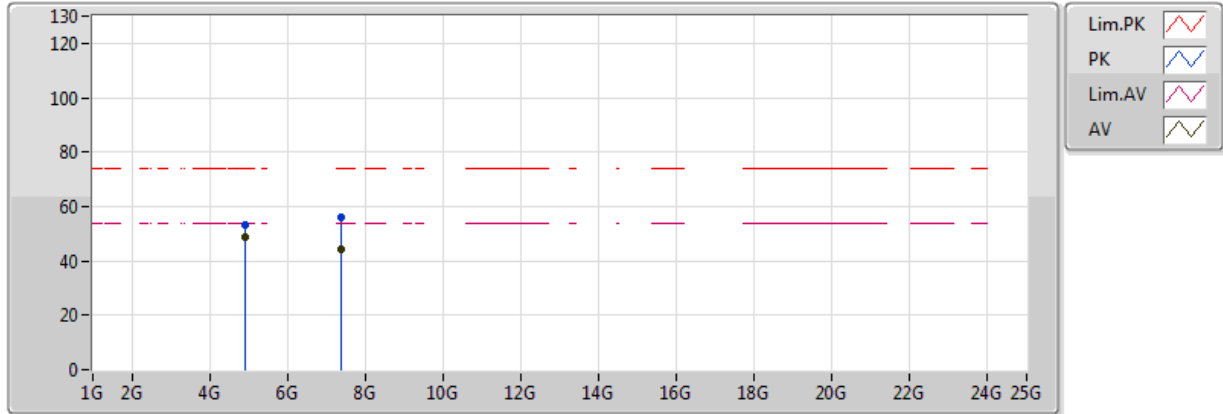


20170506
EUT_Z_4TX
Setting 86
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4612G	110.13	Inf	-Inf	32.09	3	H	315	1.17	-
AV	2.483502G	52.66	54.00	-1.34	32.14	3	H	315	1.17	-
PK	2.463G	114.28	Inf	-Inf	32.09	3	H	315	1.17	-
PK	2.4836G	64.51	74.00	-9.49	32.14	3	H	315	1.17	-

802.11b_(1Mbps)_4TX

2462MHz_TX

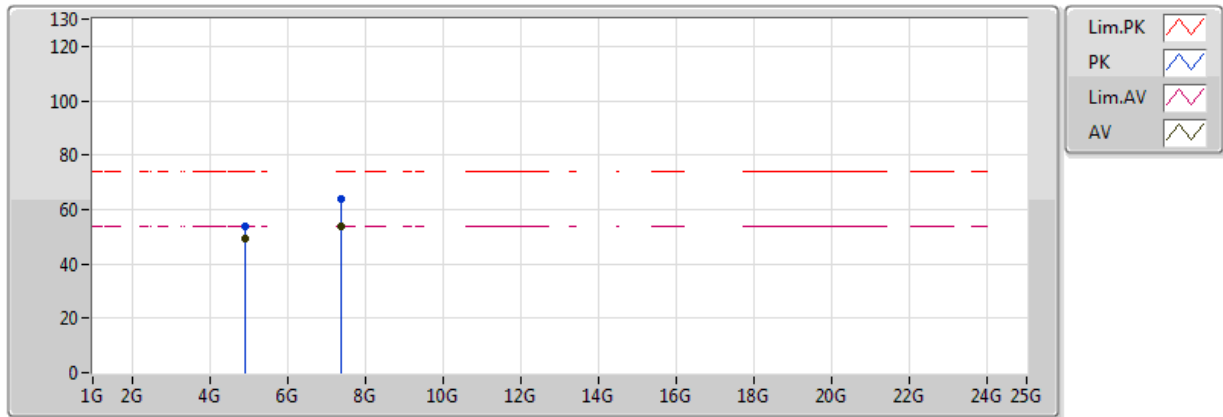


20170506
EUT_Z_4TX
Setting 86
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9242G	48.93	54.00	-5.07	4.92	3	V	71	2.68	-
AV	7.3856G	44.30	54.00	-9.70	8.83	3	V	136	2.96	-
PK	4.9242G	53.16	74.00	-20.84	4.92	3	V	71	2.68	-
PK	7.38648G	56.21	74.00	-17.79	8.83	3	V	136	2.96	-

802.11b_(1Mbps)_4TX

2462MHz_TX

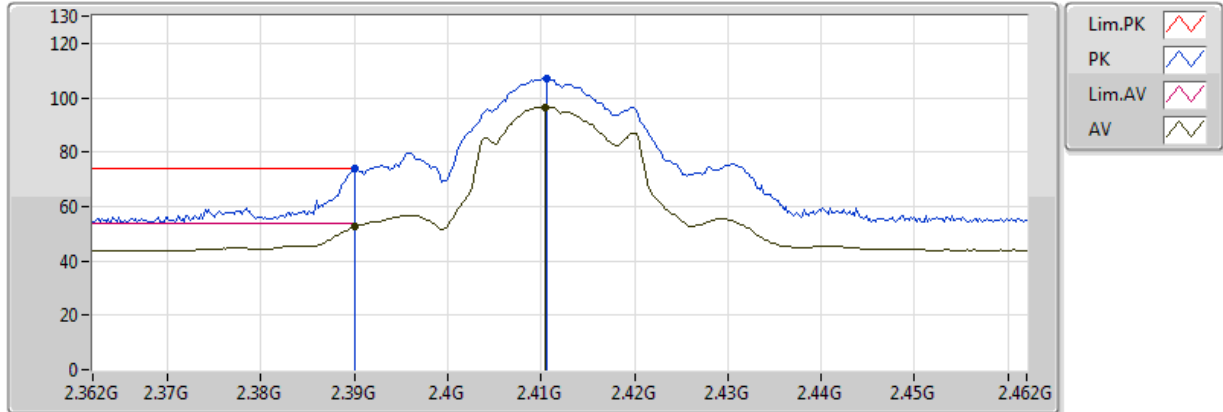


20170506
EUT_Z_4TX
Setting 86
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92424G	49.59	54.00	-4.41	4.92	3	H	36	1.01	-
AV	7.38688G	53.79	54.00	-0.21	8.83	3	H	351	2.70	-
PK	4.92412G	53.73	74.00	-20.27	4.92	3	H	36	1.01	-
PK	7.38608G	63.62	74.00	-10.38	8.83	3	H	351	2.70	-

802.11g_(6Mbps)_4TX

2412MHz_TX

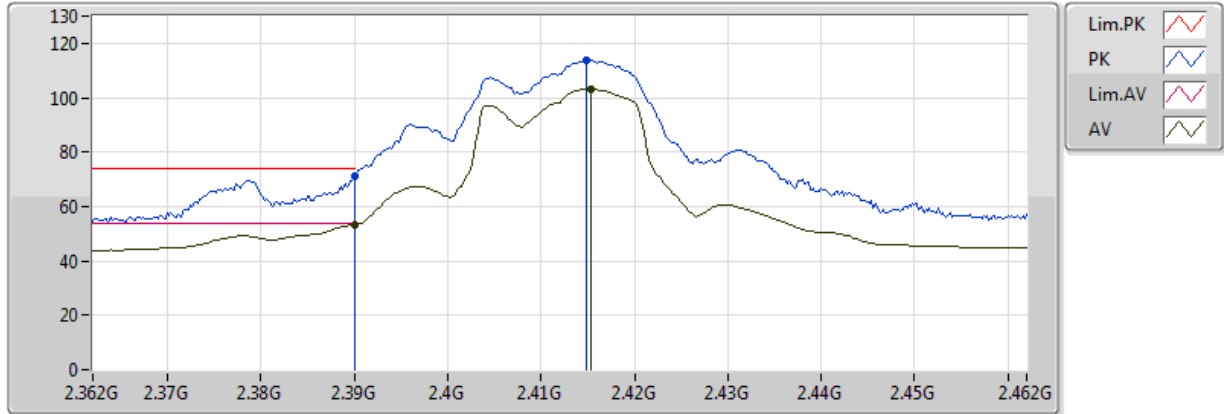


20170506
EUT_Z_4TX
Setting 77
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	52.62	54.00	-1.38	31.91	3	V	31	2.96	-
AV	2.4104G	96.61	Inf	-Inf	31.96	3	V	31	2.96	-
PK	2.39G	73.79	74.00	-0.21	31.91	3	V	31	2.96	-
PK	2.4106G	106.91	Inf	-Inf	31.97	3	V	31	2.96	-

802.11g_(6Mbps)_4TX

2412MHz_TX

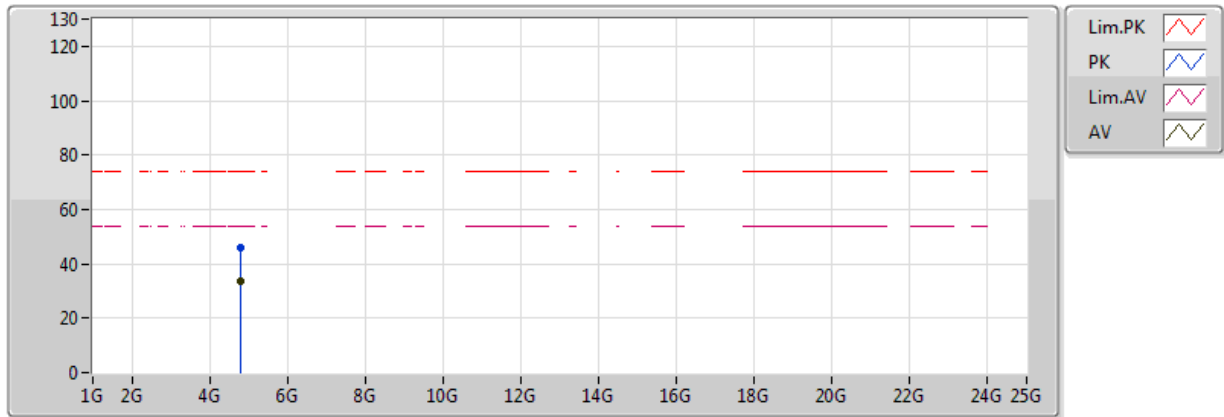


20170506
EUT_Z_4TX
Setting 77
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	53.32	54.00	-0.68	31.91	3	H	33	1.00	-
AV	2.4154G	103.34	Inf	-Inf	31.98	3	H	33	1.00	-
PK	2.39G	71.40	74.00	-2.60	31.91	3	H	33	1.00	-
PK	2.4148G	113.54	Inf	-Inf	31.98	3	H	33	1.00	-

802.11g_(6Mbps)_4TX

2412MHz_TX

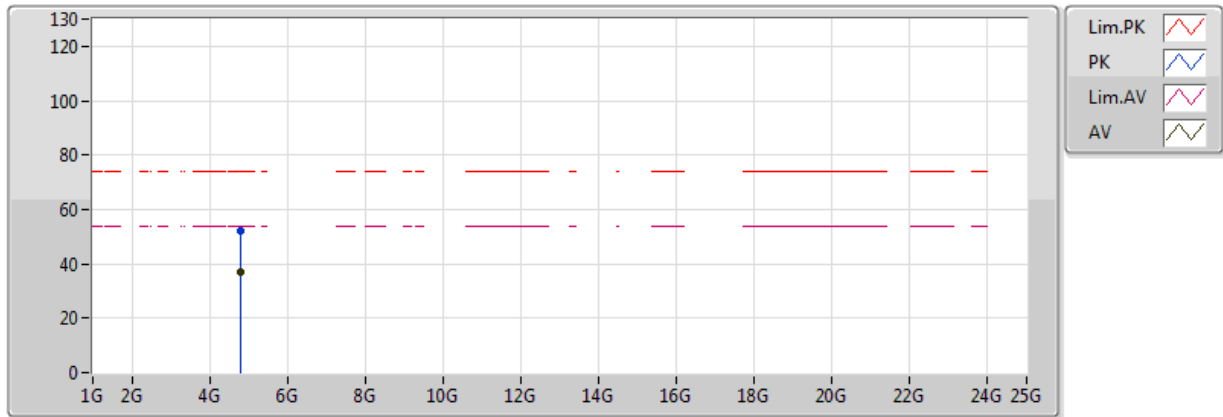


20170506
EUT_Z_4TX
Setting 77
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8002G	33.37	54.00	-20.63	4.67	3	V	283	1.92	-
PK	4.8099G	45.72	74.00	-28.28	4.69	3	V	283	1.92	-

802.11g_(6Mbps)_4TX

2412MHz_TX

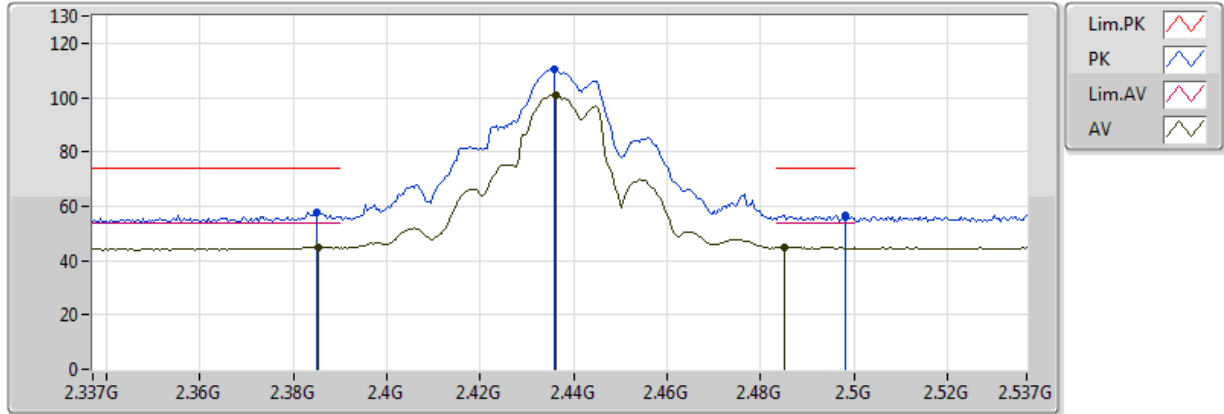


20170506
EUT_Z_4TX
Setting 77
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8147G	36.95	54.00	-17.05	4.70	3	H	306	1.02	-
PK	4.8151G	52.08	74.00	-21.92	4.70	3	H	306	1.02	-

802.11g_(6Mbps)_4TX

2437MHz_TX

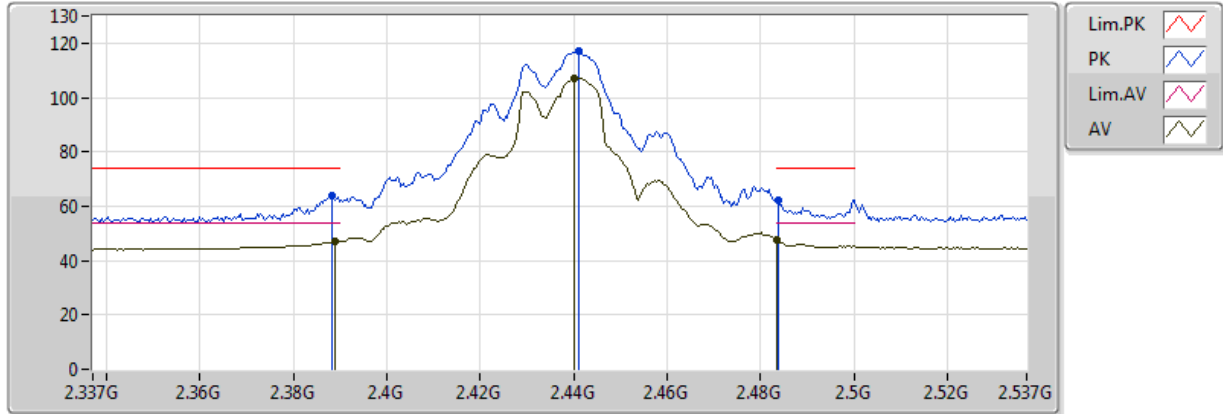


20170506
EUT_Z_4TX
Setting 89
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3854G	44.88	54.00	-9.12	31.90	3	V	123	2.96	-
AV	2.4362G	101.02	Inf	-Inf	32.03	3	V	123	2.96	-
AV	2.485G	44.90	54.00	-9.10	32.14	3	V	123	2.96	-
PK	2.385G	57.69	74.00	-16.31	31.90	3	V	123	2.96	-
PK	2.4358G	110.50	Inf	-Inf	32.03	3	V	123	2.96	-
PK	2.4982G	56.60	74.00	-17.40	32.18	3	V	123	2.96	-

802.11g_(6Mbps)_4TX

2437MHz_TX

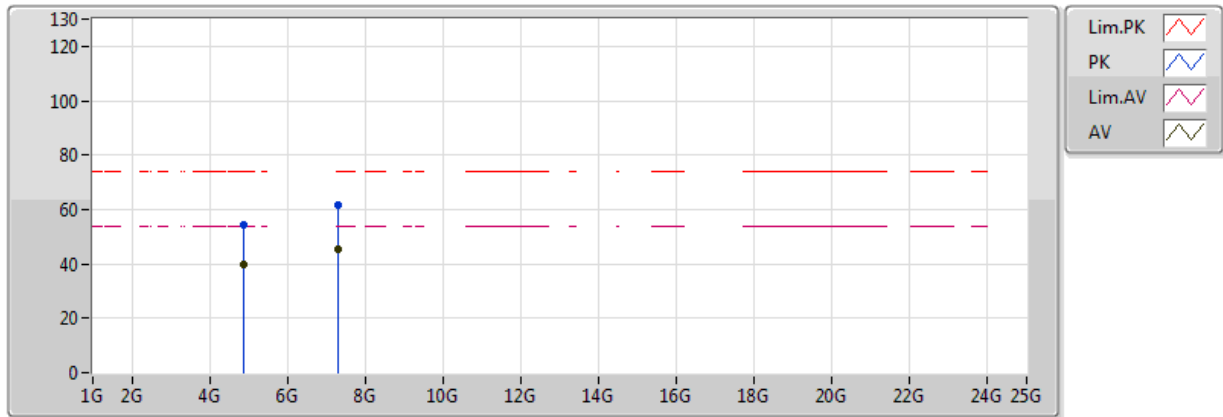


20170506
EUT_Z_4TX
Setting 89
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389G	47.17	54.00	-6.83	31.91	3	H	32	1.11	-
AV	2.4402G	107.10	Inf	-Inf	32.04	3	H	32	1.11	-
AV	2.483502G	47.57	54.00	-6.43	32.14	3	H	32	1.11	-
PK	2.3882G	63.72	74.00	-10.28	31.91	3	H	32	1.11	-
PK	2.441G	117.11	Inf	-Inf	32.04	3	H	32	1.11	-
PK	2.4838G	62.05	74.00	-11.95	32.14	3	H	32	1.11	-

802.11g_(6Mbps)_4TX

2437MHz_TX

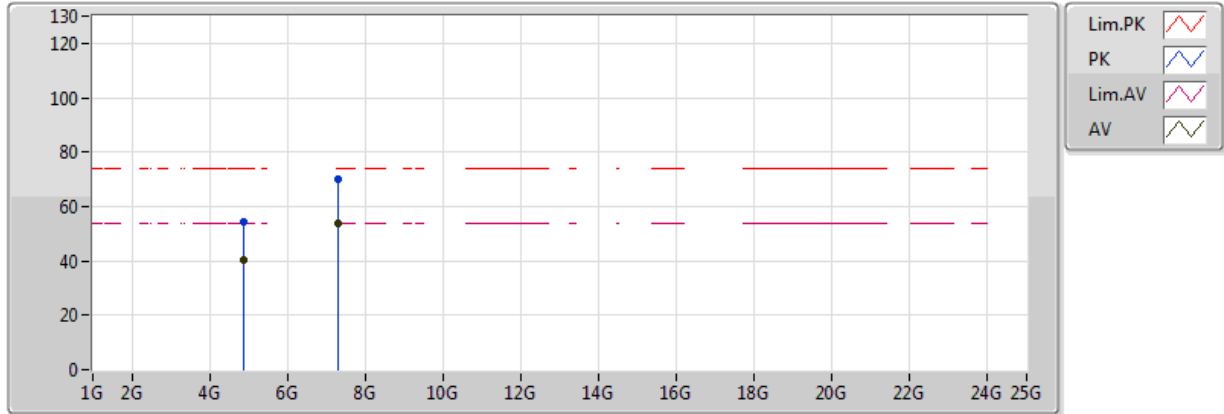


20170506
EUT_Z_4TX
Setting 89
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8721G	39.77	54.00	-14.23	4.81	3	V	75	2.99	-
AV	7.30818G	45.52	54.00	-8.48	8.80	3	V	134	2.59	-
PK	4.8726G	54.08	74.00	-19.92	4.82	3	V	75	2.99	-
PK	7.3131G	61.69	74.00	-12.31	8.80	3	V	134	2.59	-

802.11g_(6Mbps)_4TX

2437MHz_TX

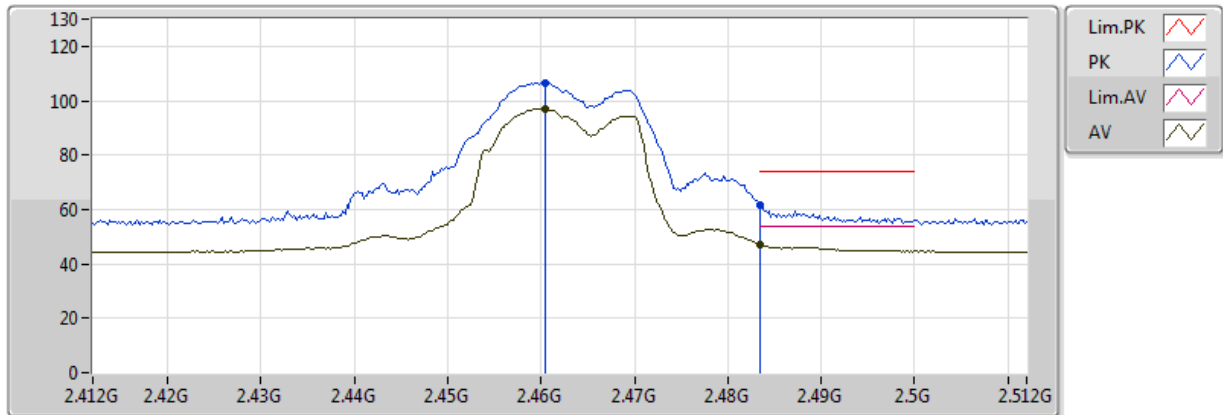


20170506
EUT_Z_4TX
Setting 89
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8655G	40.46	54.00	-13.54	4.80	3	H	310	1.05	-
AV	7.3084G	53.87	54.00	-0.13	8.80	3	H	350	2.75	-
PK	4.8654G	54.15	74.00	-19.85	4.80	3	H	310	1.05	-
PK	7.3129G	69.84	74.00	-4.16	8.80	3	H	350	2.75	-

802.11g_(6Mbps)_4TX

2462MHz_TX

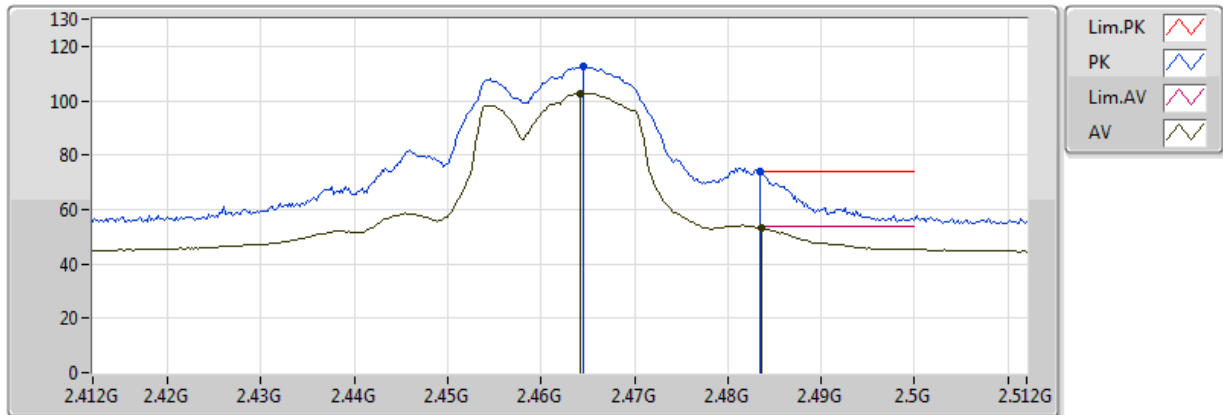


20170506
EUT_Z_4TX
Setting 70
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4604G	96.92	Inf	-Inf	32.08	3	V	124	2.48	-
AV	2.483502G	47.32	54.00	-6.68	32.14	3	V	124	2.48	-
PK	2.4604G	106.37	Inf	-Inf	32.08	3	V	124	2.48	-
PK	2.483502G	61.59	74.00	-12.41	32.14	3	V	124	2.48	-

802.11g_(6Mbps)_4TX

2462MHz_TX

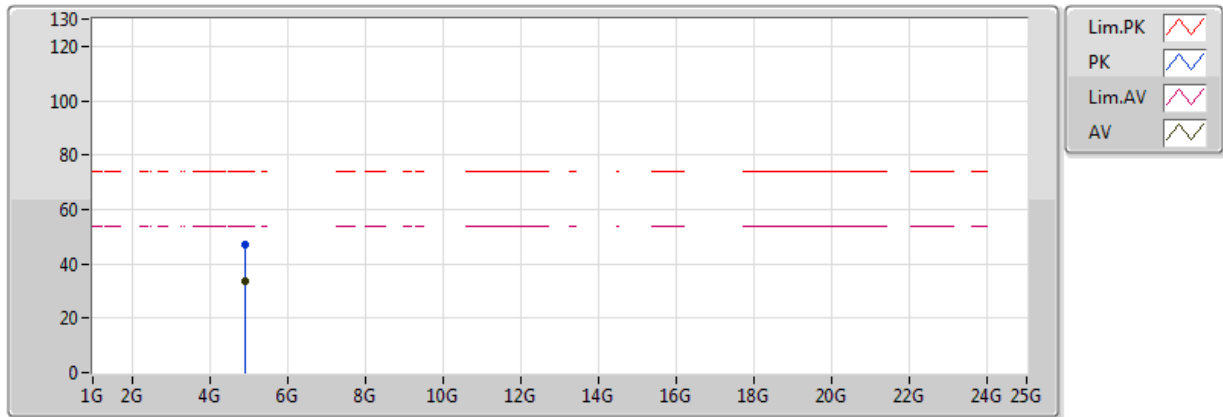


20170506
EUT_Z_4TX
Setting 70
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4642G	102.80	Inf	-Inf	32.09	3	H	32	1.18	-
AV	2.4836G	53.36	54.00	-0.64	32.14	3	H	32	1.18	-
PK	2.4646G	112.39	Inf	-Inf	32.10	3	H	32	1.18	-
PK	2.483502G	73.88	74.00	-0.12	32.14	3	H	32	1.18	-

802.11g_(6Mbps)_4TX

2462MHz_TX

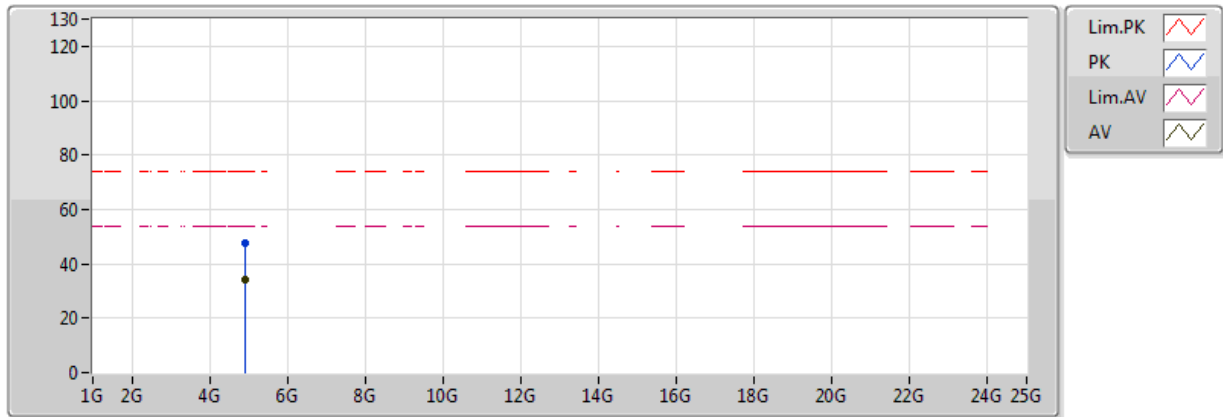


20170506
EUT_Z_4TX
Setting 70
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91632G	33.49	54.00	-20.51	4.91	3	V	56	2.18	-
PK	4.91672G	46.86	74.00	-27.14	4.91	3	V	56	2.18	-

802.11g_(6Mbps)_4TX

2462MHz_TX

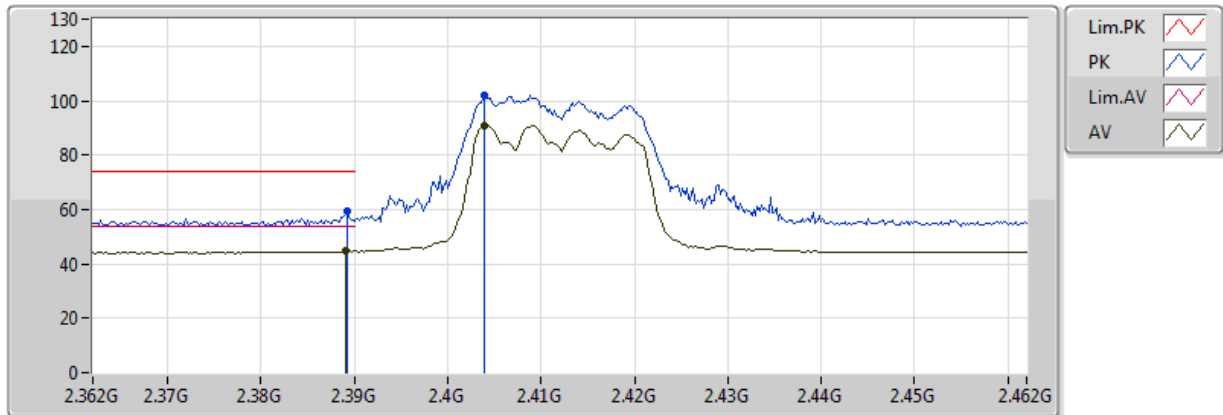


20170506
EUT_Z_4TX
Setting 70
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91856G	34.12	54.00	-19.88	4.91	3	H	205	1.52	-
PK	4.91824G	47.46	74.00	-26.54	4.91	3	H	205	1.52	-

802.11ac VHT20_Nss1,(MCS0)_4TX

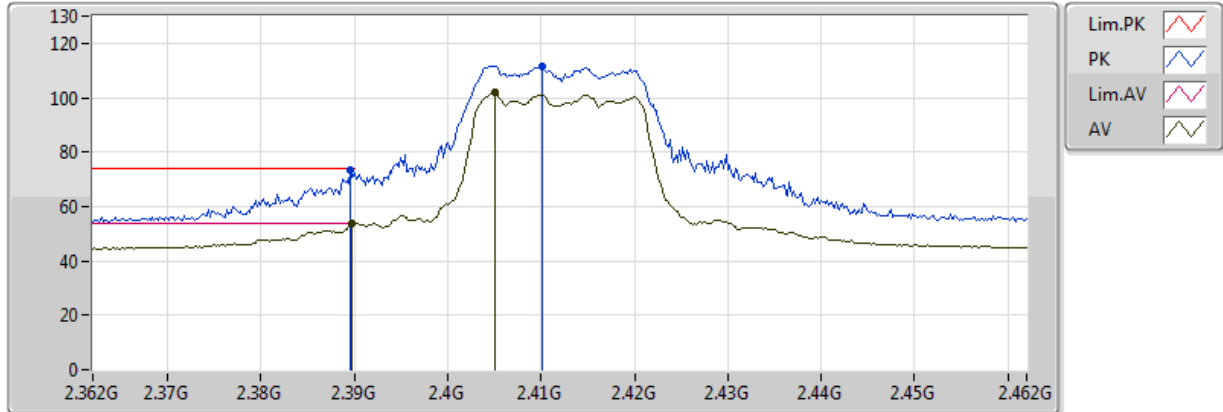
2412MHz_TX



Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389G	44.62	54.00	-9.38	31.91	3	V	121	1.16	-
AV	2.404G	91.02	Inf	-Inf	31.95	3	V	121	1.16	-
PK	2.3892G	59.37	74.00	-14.63	31.91	3	V	121	1.16	-
PK	2.404G	101.79	Inf	-Inf	31.95	3	V	121	1.16	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

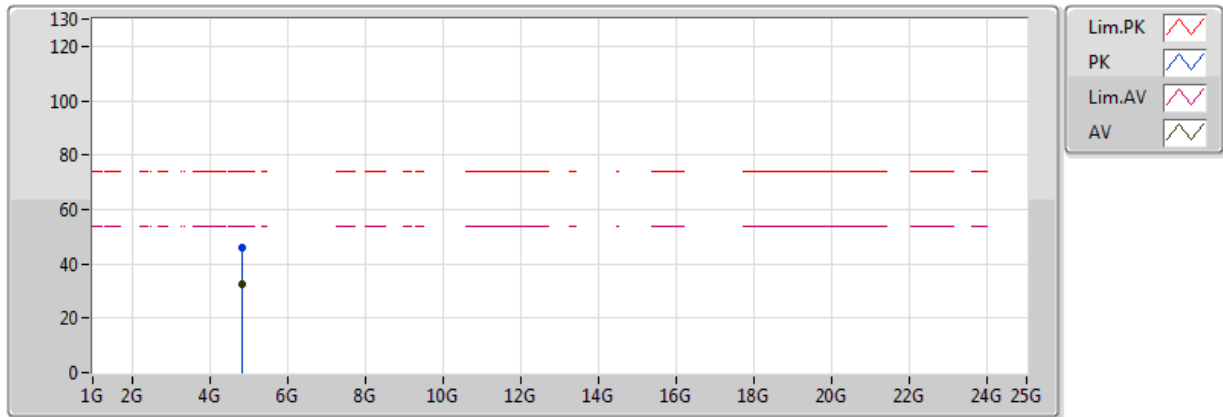


20170506
EUT_Z_4TX
Setting 65
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	53.83	54.00	-0.17	31.91	3	H	308	1.09	-
AV	2.405G	101.86	Inf	-Inf	31.95	3	H	308	1.09	-
PK	2.3896G	73.43	74.00	-0.57	31.91	3	H	308	1.09	-
PK	2.4102G	111.76	Inf	-Inf	31.96	3	H	308	1.09	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

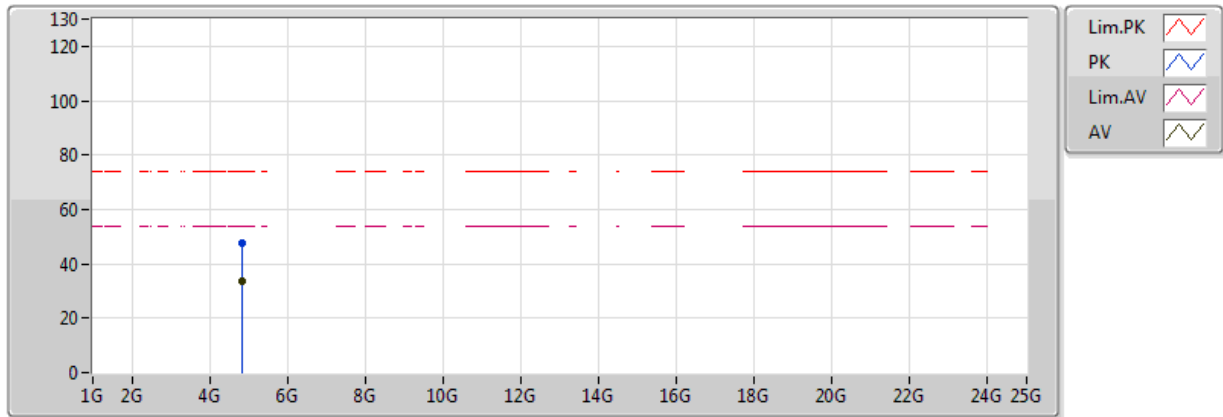


20170506
EUT_Z_4TX
Setting 65
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.819G	32.68	54.00	-21.32	4.71	3	V	16	1.59	-
PK	4.82344G	46.14	74.00	-27.86	4.72	3	V	16	1.59	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

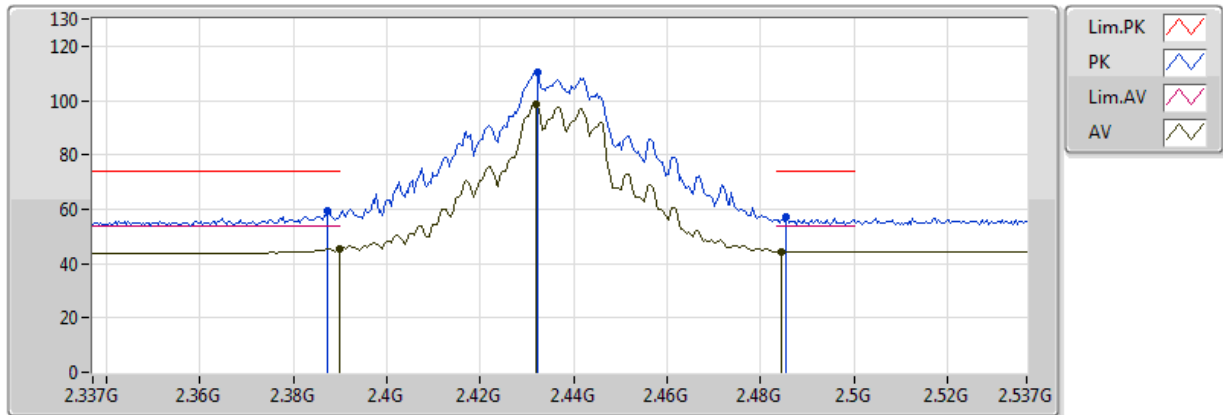


20170506
EUT_Z_4TX
Setting 65
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.81992G	33.88	54.00	-20.12	4.71	3	H	307	2.26	-
PK	4.81962G	47.49	74.00	-26.51	4.71	3	H	307	2.26	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

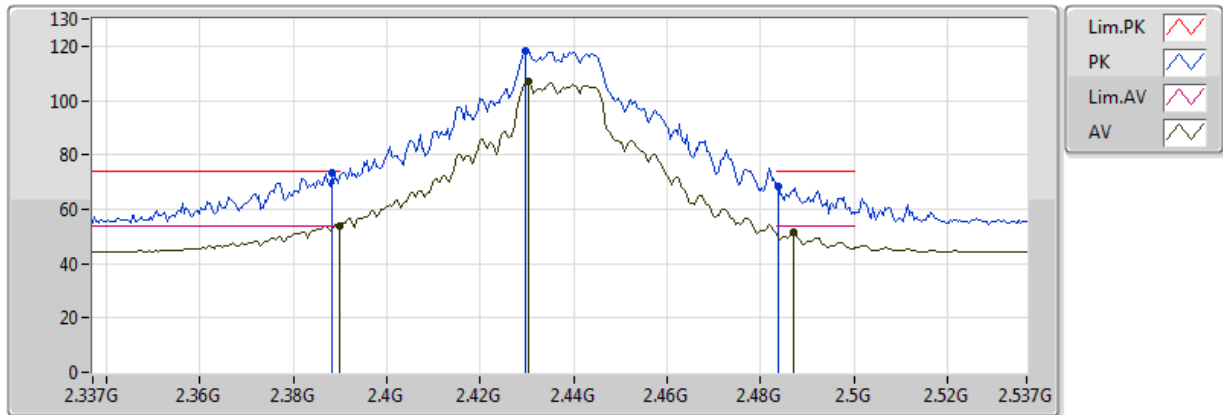


20170506
EUT_Z_4TX
Setting 93
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	45.42	54.00	-8.58	31.91	3	V	38	2.58	-
AV	2.4318G	98.80	Inf	-Inf	32.02	3	V	38	2.58	-
AV	2.4846G	44.49	54.00	-9.51	32.14	3	V	38	2.58	-
PK	2.3874G	59.13	74.00	-14.87	31.91	3	V	38	2.58	-
PK	2.4322G	110.49	Inf	-Inf	32.02	3	V	38	2.58	-
PK	2.4854G	57.32	74.00	-16.68	32.14	3	V	38	2.58	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

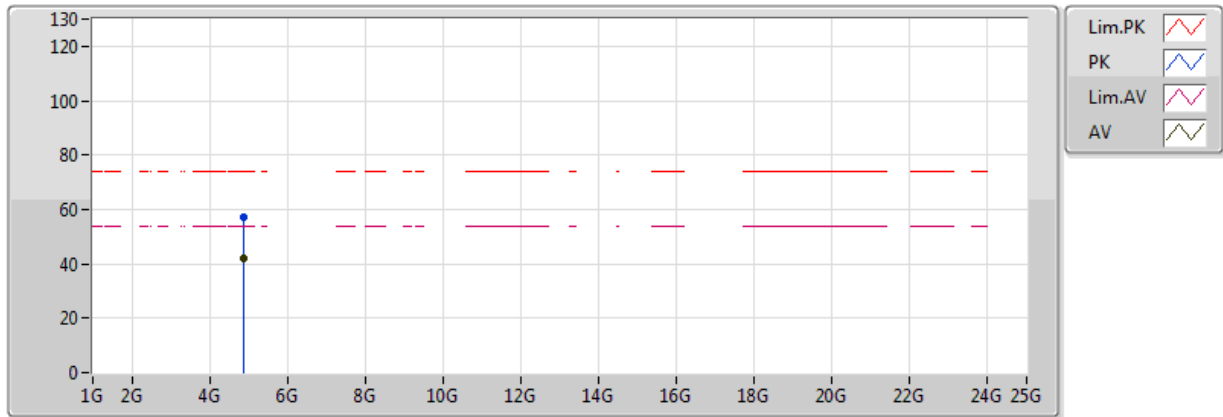


20170506
EUT_Z_4TX
Setting 93
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	53.89	54.00	-0.11	31.91	3	H	313	1.27	-
AV	2.4302G	106.79	Inf	-Inf	32.01	3	H	313	1.27	-
AV	2.487G	51.48	54.00	-2.52	32.15	3	H	313	1.27	-
PK	2.3882G	73.23	74.00	-0.77	31.91	3	H	313	1.27	-
PK	2.4298G	118.38	Inf	-Inf	32.01	3	H	313	1.27	-
PK	2.4838G	68.27	74.00	-5.73	32.14	3	H	313	1.27	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

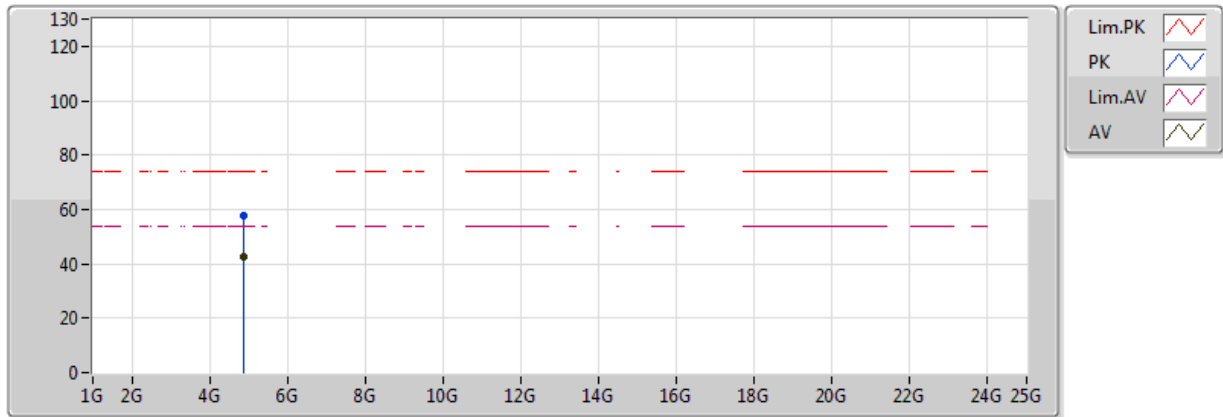


20170506
EUT_Z_4TX
Setting 93
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.872G	41.85	54.00	-12.15	4.81	3	V	75	2.99	-
PK	4.87176G	56.92	74.00	-17.08	4.81	3	V	75	2.99	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

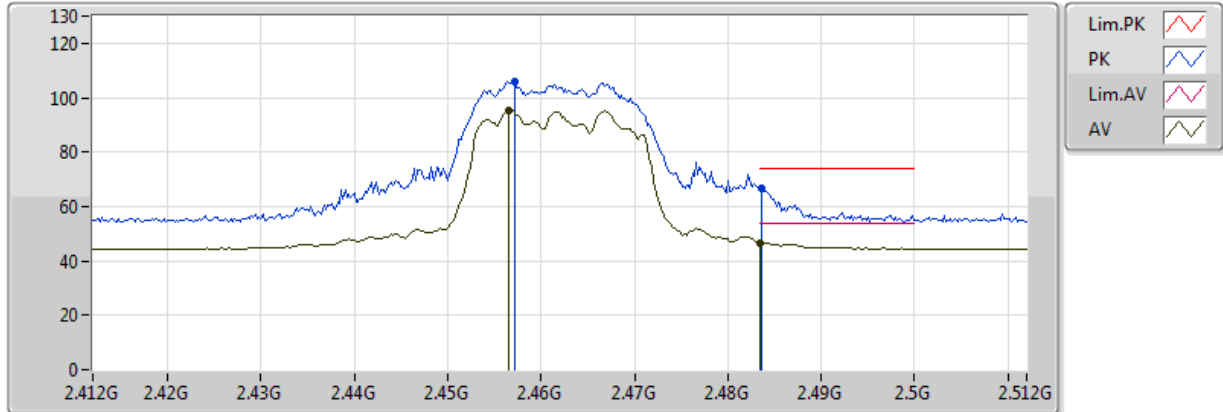


20170506
EUT_Z_4TX
Setting 93
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8751G	42.82	54.00	-11.18	4.82	3	H	309	1.01	-
PK	4.8702G	57.97	74.00	-16.03	4.81	3	H	309	1.01	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

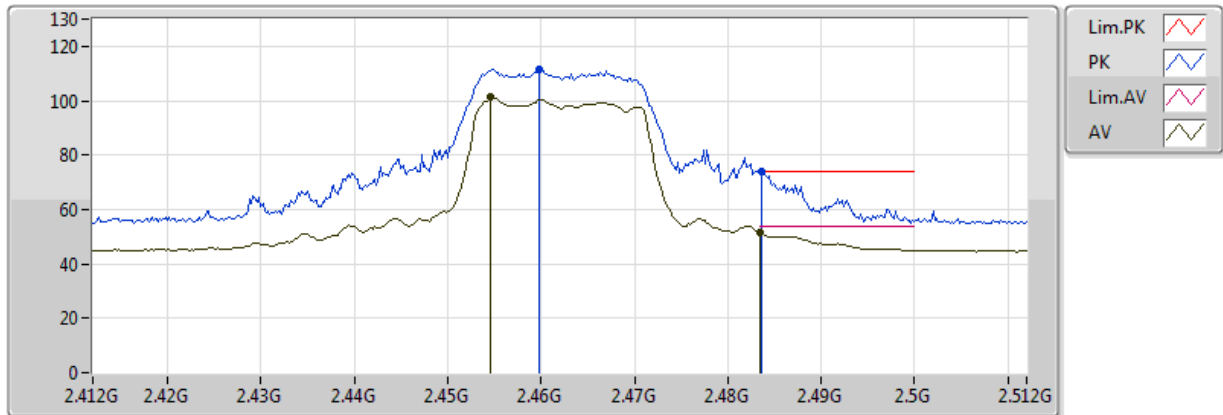


20170506
EUT_Z_4TX
Setting 68
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4566G	95.34	Inf	-Inf	32.08	3	V	66	2.83	-
AV	2.483502G	46.56	54.00	-7.44	32.14	3	V	66	2.83	-
PK	2.4572G	105.91	Inf	-Inf	32.08	3	V	66	2.83	-
PK	2.4836G	66.92	74.00	-7.08	32.14	3	V	66	2.83	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

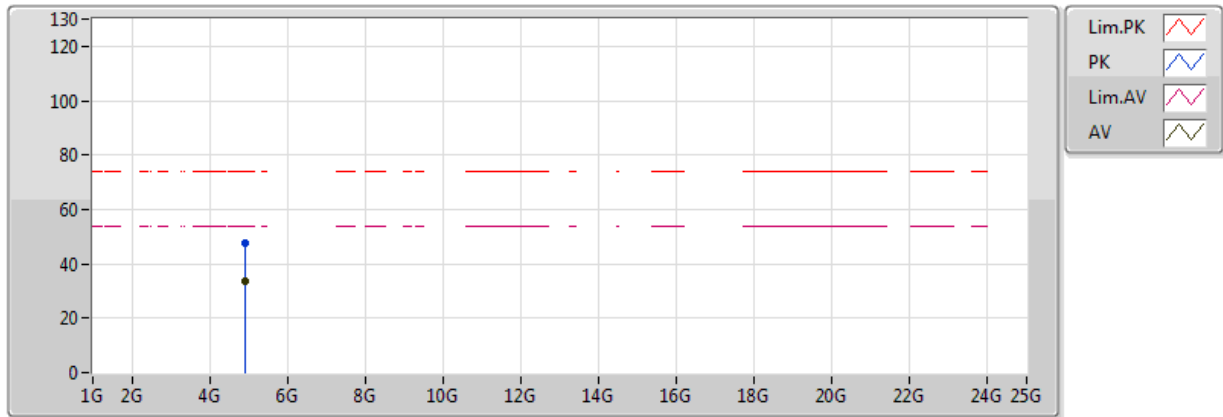


20170506
EUT_Z_4TX
Setting 68
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4546G	101.20	Inf	-Inf	32.07	3	H	34	1.07	-
AV	2.483502G	51.80	54.00	-2.20	32.14	3	H	34	1.07	-
PK	2.4598G	111.51	Inf	-Inf	32.08	3	H	34	1.07	-
PK	2.4836G	73.81	74.00	-0.19	32.14	3	H	34	1.07	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

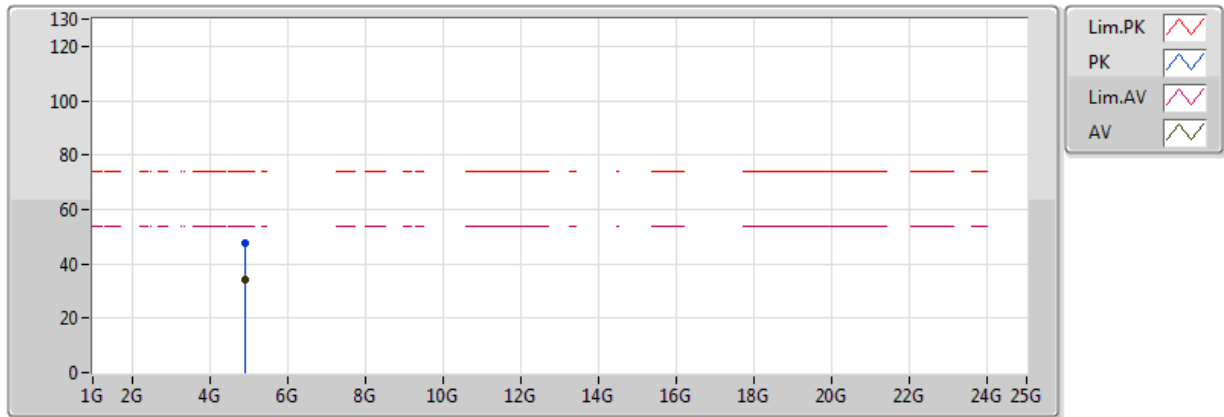


20170506
EUT_Z_4TX
Setting 68
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91926G	33.58	54.00	-20.42	4.91	3	V	86	1.50	-
PK	4.9257G	47.86	74.00	-26.14	4.93	3	V	86	1.50	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

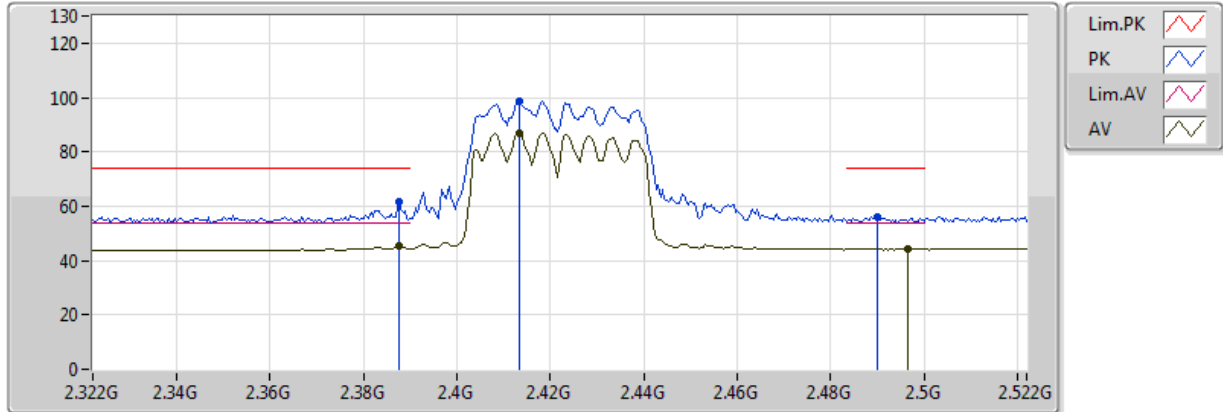


20170506
EUT_Z_4TX
Setting 68
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9285G	34.31	54.00	-19.69	4.93	3	H	298	1.10	-
PK	4.92394G	47.90	74.00	-26.10	4.92	3	H	298	1.10	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

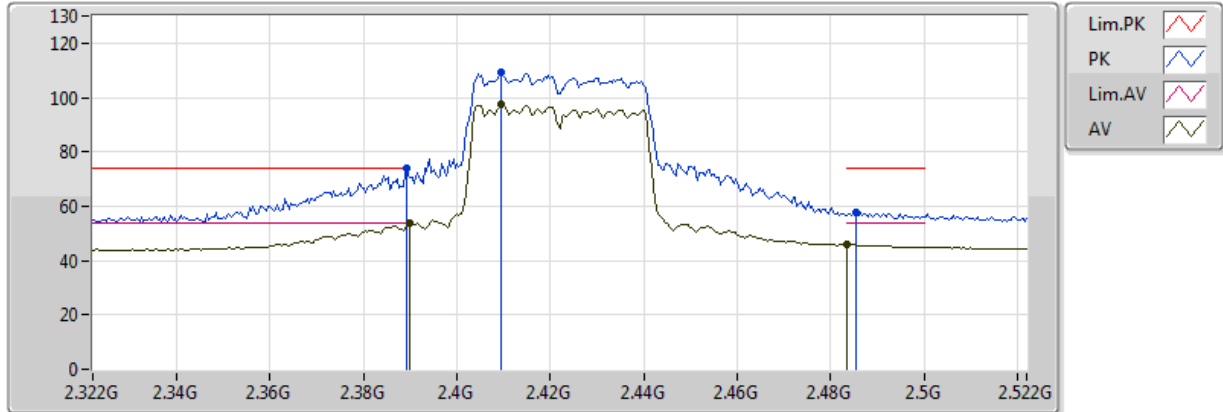


20170506
EUT_Z_4TX
Setting 64
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3876G	45.31	54.00	-8.69	31.91	3	V	355	1.14	-
AV	2.4132G	87.06	Inf	-Inf	31.97	3	V	355	1.14	-
AV	2.4964G	44.15	54.00	-9.85	32.17	3	V	355	1.14	-
PK	2.3876G	61.38	74.00	-12.62	31.91	3	V	355	1.14	-
PK	2.4132G	98.67	Inf	-Inf	31.97	3	V	355	1.14	-
PK	2.49G	56.02	74.00	-17.98	32.16	3	V	355	1.14	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

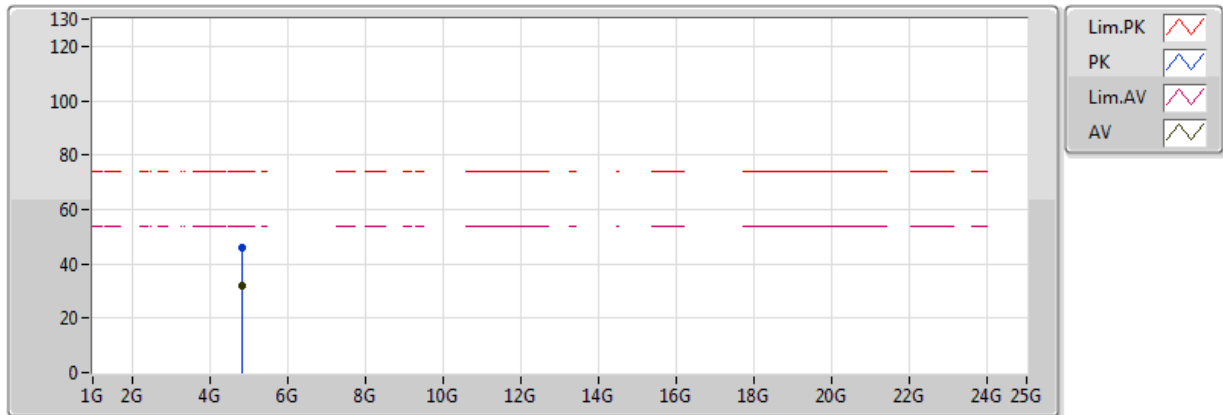


20170506
EUT_Z_4TX
Setting 64
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	53.99	54.00	-0.01	31.91	3	H	312	1.09	-
AV	2.4096G	97.25	Inf	-Inf	31.96	3	H	312	1.09	-
AV	2.4836G	45.77	54.00	-8.23	32.14	3	H	312	1.09	-
PK	2.3892G	73.89	74.00	-0.11	31.91	3	H	312	1.09	-
PK	2.4096G	109.11	Inf	-Inf	31.96	3	H	312	1.09	-
PK	2.4856G	57.57	74.00	-16.43	32.15	3	H	312	1.09	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

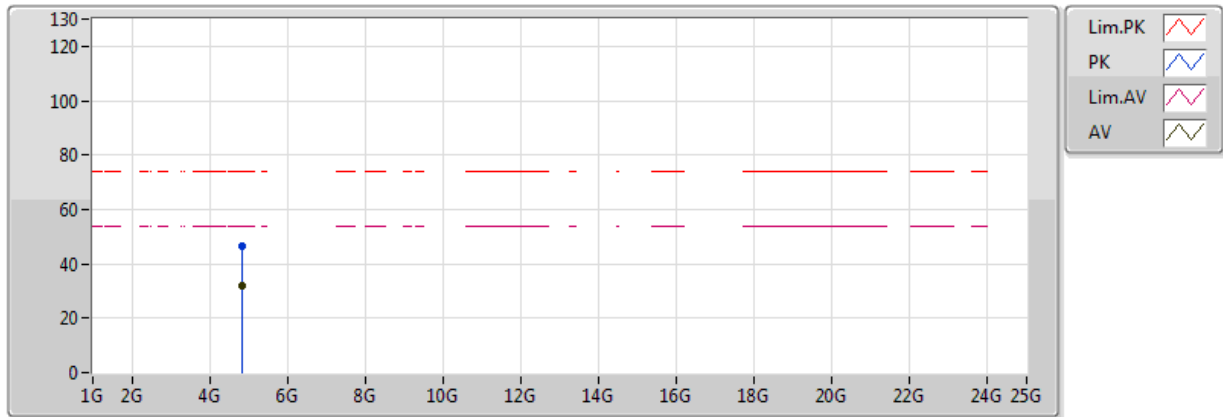


20170506
EUT_Z_4TX
Setting 64
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.83994G	31.66	54.00	-22.34	4.75	3	V	187	1.47	-
PK	4.84476G	45.74	74.00	-28.26	4.76	3	V	187	1.47	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

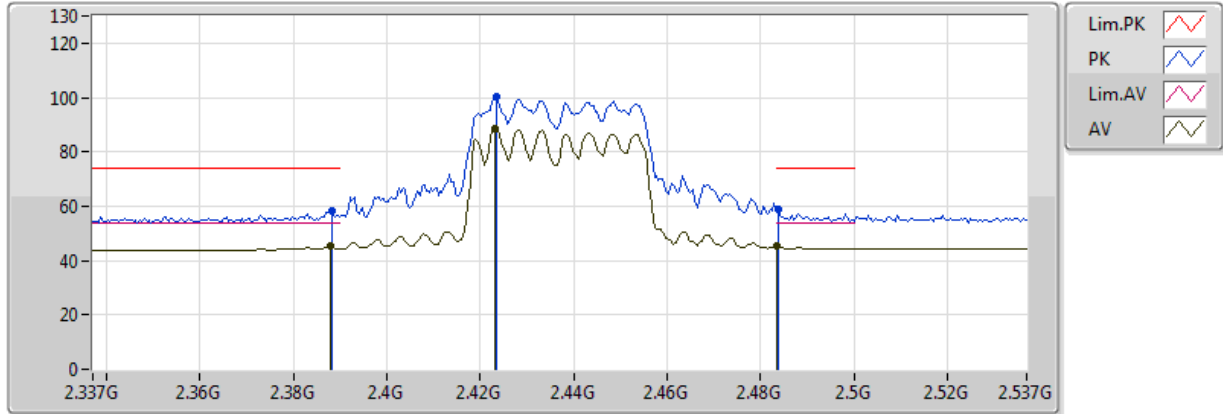


20170506
EUT_Z_4TX
Setting 64
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.84028G	31.85	54.00	-22.15	4.75	3	H	72	1.15	-
PK	4.84458G	46.64	74.00	-27.36	4.76	3	H	72	1.15	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

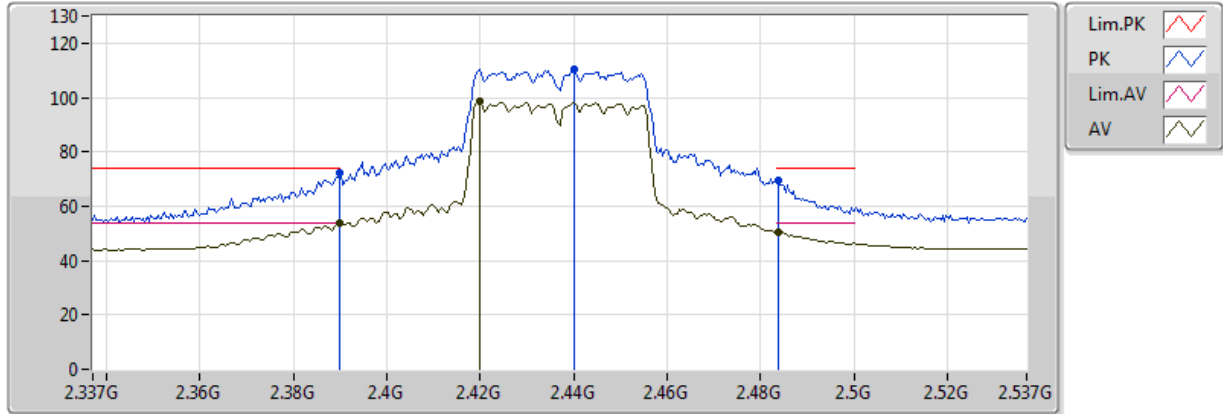


20170506
EUT_Z_4TX
Setting 70
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3878G	45.42	54.00	-8.58	31.91	3	V	353	1.13	-
AV	2.423G	88.44	Inf	-Inf	32.00	3	V	353	1.13	-
AV	2.483502G	45.35	54.00	-8.65	32.14	3	V	353	1.13	-
PK	2.3882G	58.21	74.00	-15.79	31.91	3	V	353	1.13	-
PK	2.4234G	100.30	Inf	-Inf	32.00	3	V	353	1.13	-
PK	2.4838G	58.96	74.00	-15.04	32.14	3	V	353	1.13	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

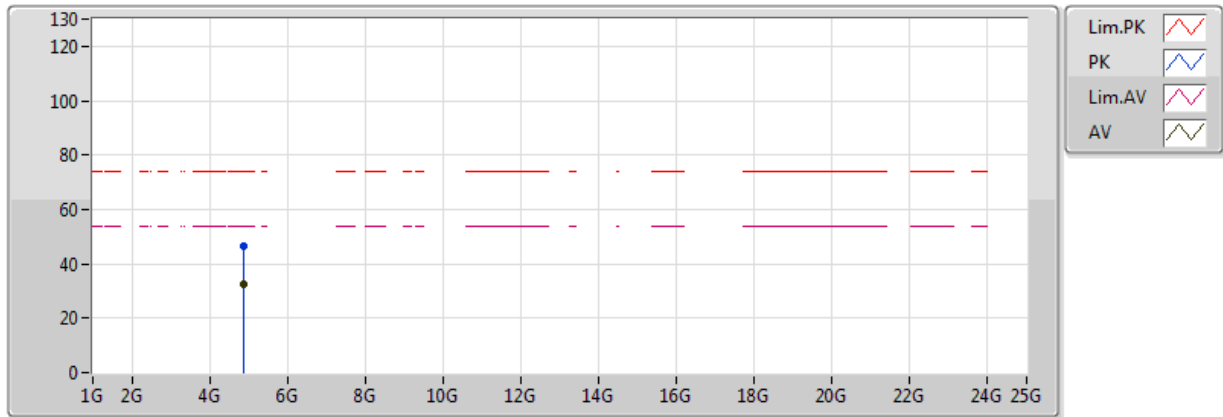


20170506
EUT_Z_4TX
Setting 70
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	53.87	54.00	-0.13	31.91	3	H	310	1.01	-
AV	2.4198G	98.44	Inf	-Inf	31.99	3	H	310	1.01	-
AV	2.4838G	50.65	54.00	-3.35	32.14	3	H	310	1.01	-
PK	2.389998G	72.36	74.00	-1.64	31.91	3	H	310	1.01	-
PK	2.4402G	110.41	Inf	-Inf	32.04	3	H	310	1.01	-
PK	2.4838G	69.54	74.00	-4.46	32.14	3	H	310	1.01	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

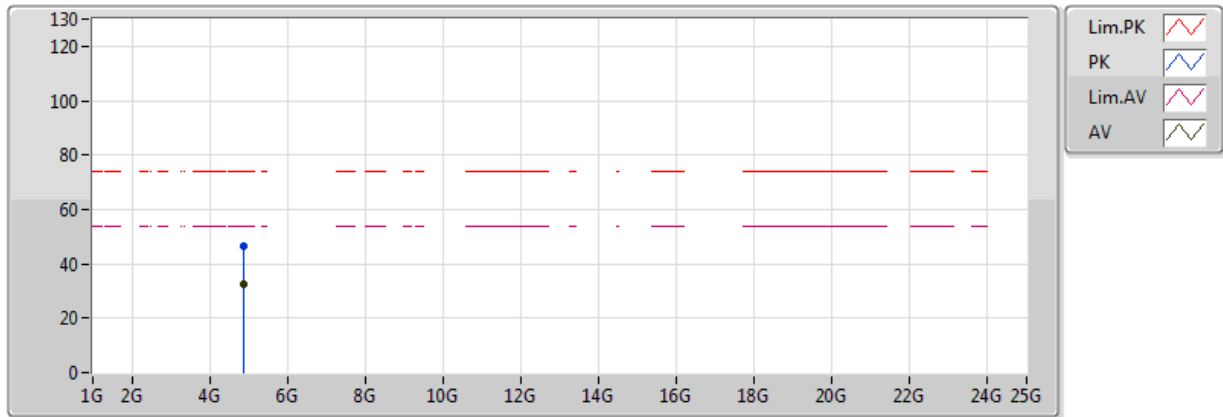


20170506
EUT_Z_4TX
Setting 70
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87464G	32.42	54.00	-21.58	4.82	3	V	308	1.17	-
PK	4.87538G	46.77	74.00	-27.23	4.82	3	V	308	1.17	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

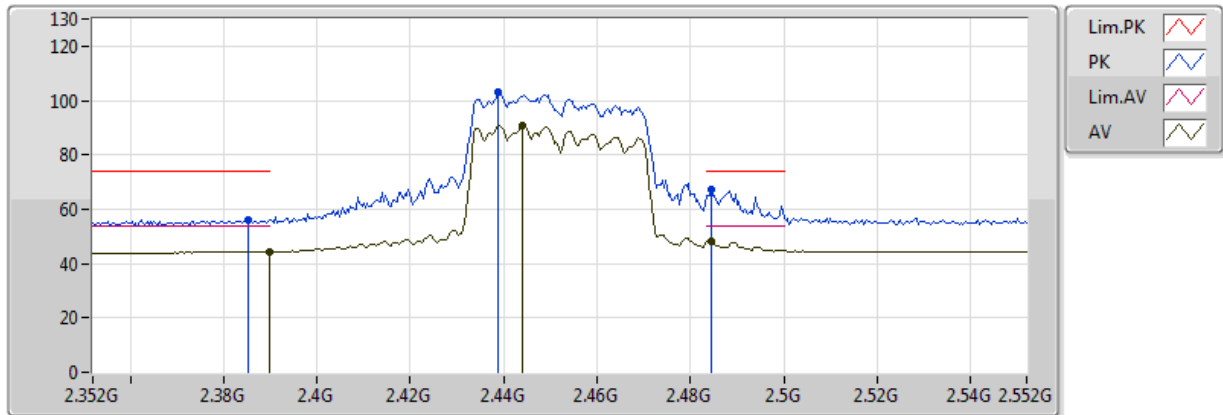


20170506
EUT_Z_4TX
Setting 70
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87228G	32.65	54.00	-21.35	4.81	3	H	351	1.93	-
PK	4.86976G	46.76	74.00	-27.24	4.81	3	H	351	1.93	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

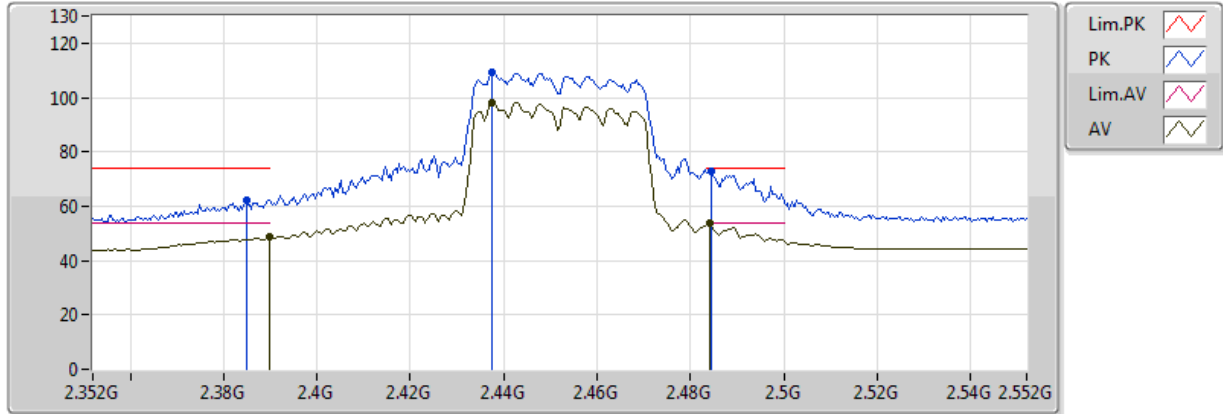


20170506
EUT_Z_4TX
Setting 68
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	44.52	54.00	-9.48	31.91	3	V	176	2.29	-
AV	2.444G	90.94	Inf	-Inf	32.05	3	V	176	2.29	-
AV	2.4844G	48.39	54.00	-5.61	32.14	3	V	176	2.29	-
PK	2.3852G	56.31	74.00	-17.69	31.90	3	V	176	2.29	-
PK	2.4388G	102.92	Inf	-Inf	32.03	3	V	176	2.29	-
PK	2.4844G	66.98	74.00	-7.02	32.14	3	V	176	2.29	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

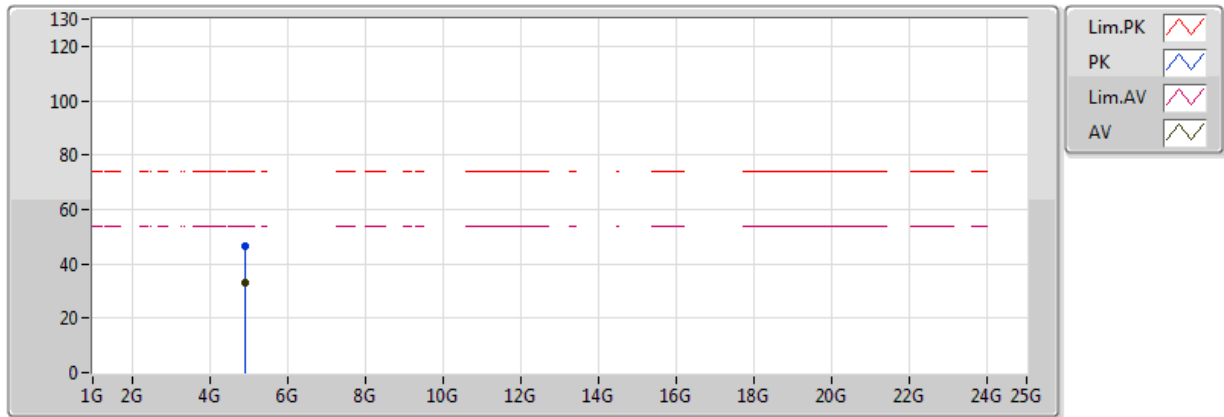


20170506
EUT_Z_4TX
Setting 68
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	48.84	54.00	-5.16	31.91	3	H	322	1.01	-
AV	2.4376G	98.02	Inf	-Inf	32.03	3	H	322	1.01	-
AV	2.484G	53.88	54.00	-0.12	32.14	3	H	322	1.01	-
PK	2.3848G	62.47	74.00	-11.53	31.90	3	H	322	1.01	-
PK	2.4376G	109.37	Inf	-Inf	32.03	3	H	322	1.01	-
PK	2.4844G	72.60	74.00	-1.40	32.14	3	H	322	1.01	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

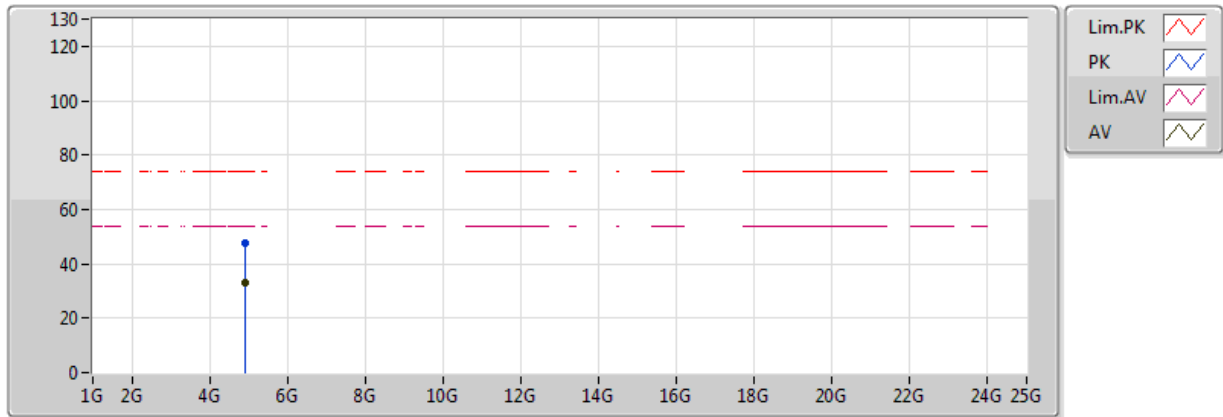


20170506
EUT_Z_4TX
Setting 68
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.90752G	33.08	54.00	-20.92	4.89	3	V	174	1.15	-
PK	4.9018G	46.71	74.00	-27.29	4.87	3	V	174	1.15	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

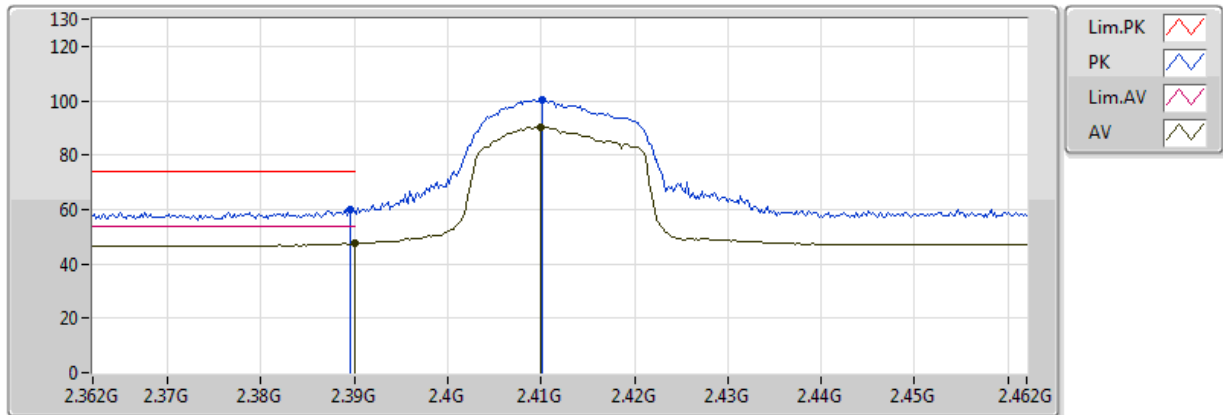


20170506
EUT_Z_4TX
Setting 68
03-N-2
FSP(100019)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9076G	33.14	54.00	-20.86	4.89	3	H	310	2.19	-
PK	4.90646G	47.46	74.00	-26.54	4.88	3	H	310	2.19	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

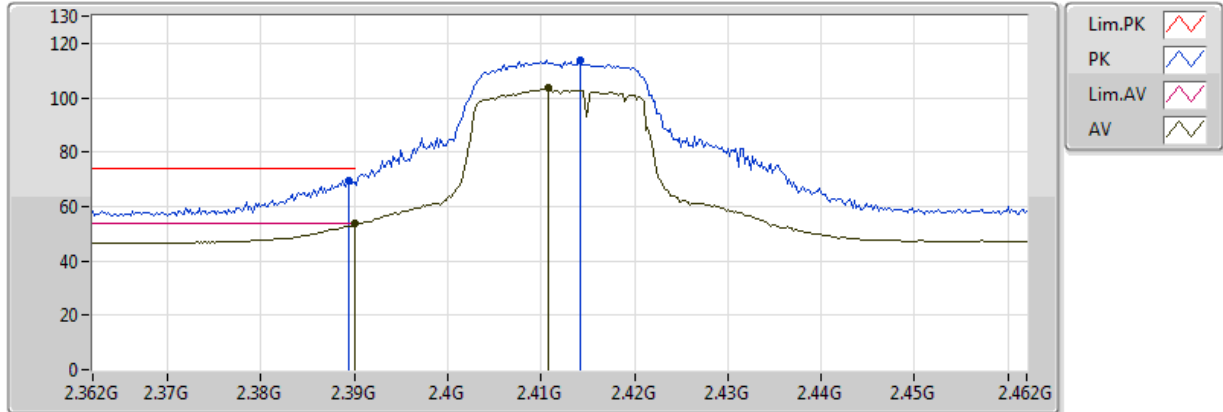


20170607
EUT_Z_4TX
Setting 72
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	47.47	54.00	-6.53	31.94	3	V	306	1.24	-
AV	2.41G	90.27	Inf	-Inf	32.00	3	V	306	1.24	-
PK	2.3896G	60.12	74.00	-13.88	31.94	3	V	306	1.24	-
PK	2.4102G	100.30	Inf	-Inf	32.00	3	V	306	1.24	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

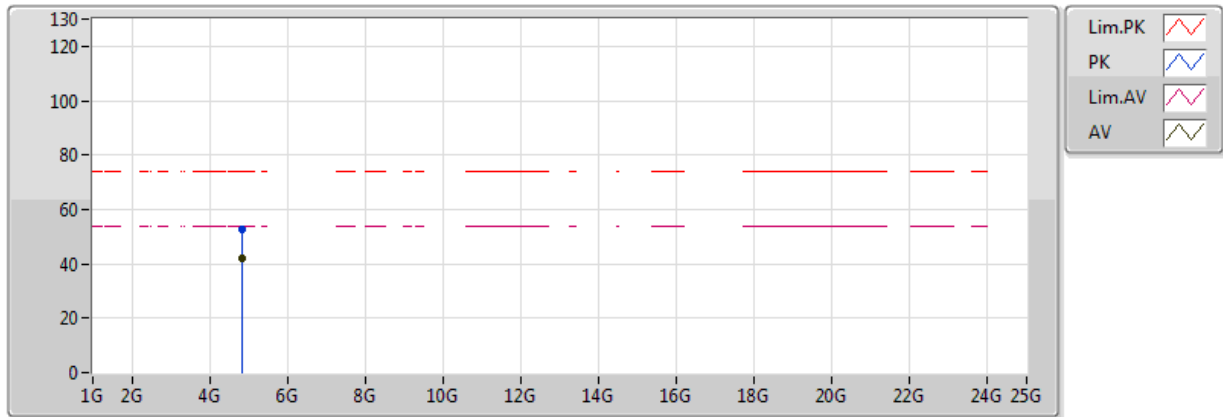


20170607
EUT_Z_4TX
Setting 72
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	53.76	54.00	-0.24	31.94	3	H	76	2.86	-
AV	2.4108G	103.51	Inf	-Inf	32.00	3	H	76	2.86	-
PK	2.3894G	69.74	74.00	-4.26	31.94	3	H	76	2.86	-
PK	2.4142G	113.86	Inf	-Inf	32.01	3	H	76	2.86	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

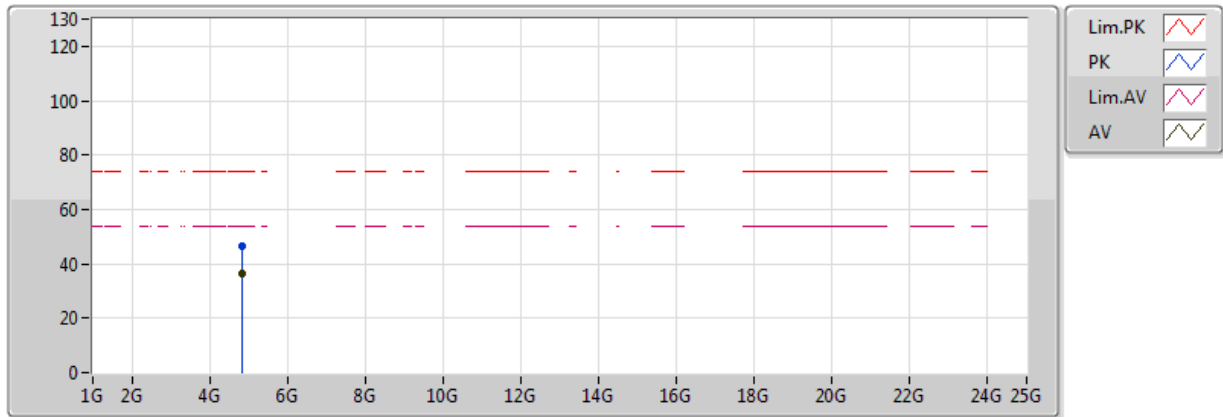


20170607
EUT_Z_4TX
Setting 72
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8239G	41.83	54.00	-12.17	8.08	3	V	54	2.98	-
PK	4.8248G	52.75	74.00	-21.25	8.09	3	V	54	2.98	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

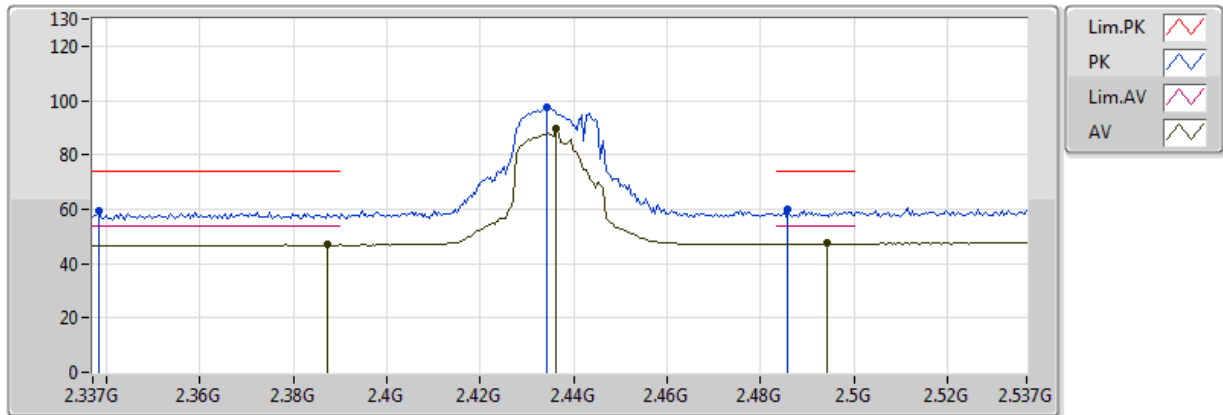


20170607
EUT_Z_4TX
Setting 72
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82378G	36.48	54.00	-17.52	8.08	3	H	228	2.49	-
PK	4.82614G	46.68	74.00	-27.32	8.09	3	H	228	2.49	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

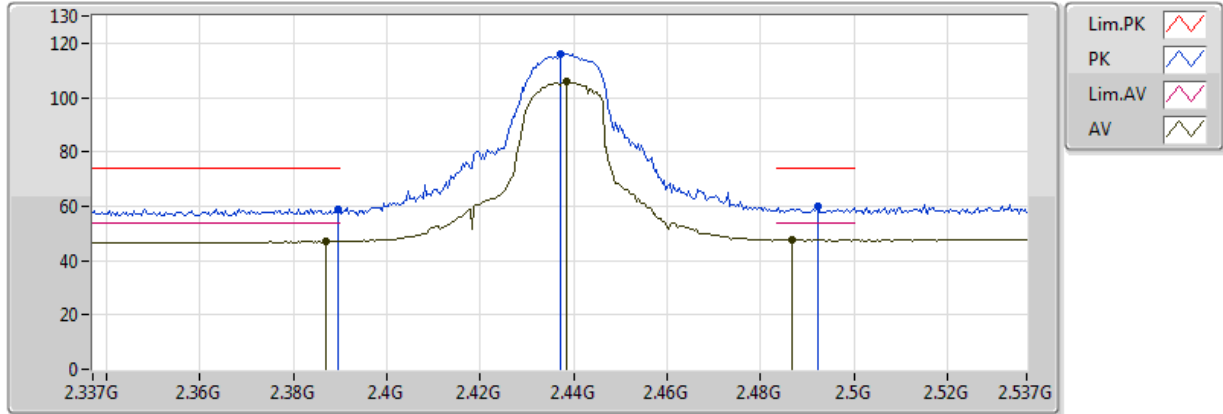


20170607
EUT_Z_4TX
Setting 85
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3874G	46.85	54.00	-7.15	31.93	3	V	245	1.50	-
AV	2.4362G	89.73	Inf	-Inf	32.08	3	V	245	1.50	-
AV	2.4942G	47.43	54.00	-6.57	32.25	3	V	245	1.50	-
PK	2.3382G	59.33	74.00	-14.67	31.78	3	V	245	1.50	-
PK	2.4342G	97.28	Inf	-Inf	32.07	3	V	245	1.50	-
PK	2.4858G	59.71	74.00	-14.29	32.23	3	V	245	1.50	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

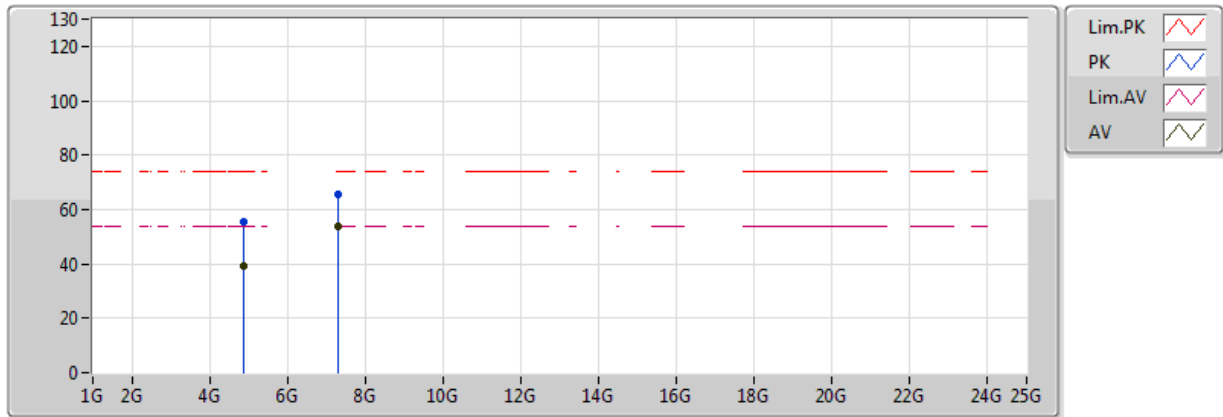


20170607
EUT_Z_4TX
Setting 85
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.387G	47.00	54.00	-7.00	31.93	3	H	293	1.15	-
AV	2.4386G	105.86	Inf	-Inf	32.09	3	H	293	1.15	-
AV	2.4866G	47.61	54.00	-6.39	32.23	3	H	293	1.15	-
PK	2.3894G	58.94	74.00	-15.06	31.94	3	H	293	1.15	-
PK	2.437G	116.24	Inf	-Inf	32.08	3	H	293	1.15	-
PK	2.4922G	59.97	74.00	-14.03	32.25	3	H	293	1.15	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

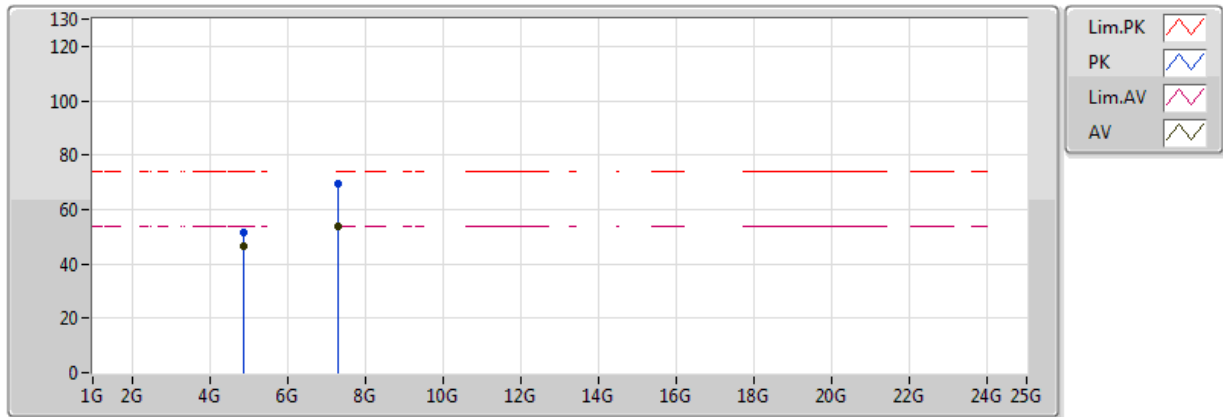


20170607
EUT_Z_4TX
Setting 85
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8746G	39.50	54.00	-14.50	8.24	3	V	74	2.92	-
AV	7.31264G	53.76	54.00	-0.24	12.20	3	V	179	2.38	-
PK	4.87252G	55.52	74.00	-18.48	8.23	3	V	74	2.92	-
PK	7.31164G	65.79	74.00	-8.21	12.19	3	V	179	2.38	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

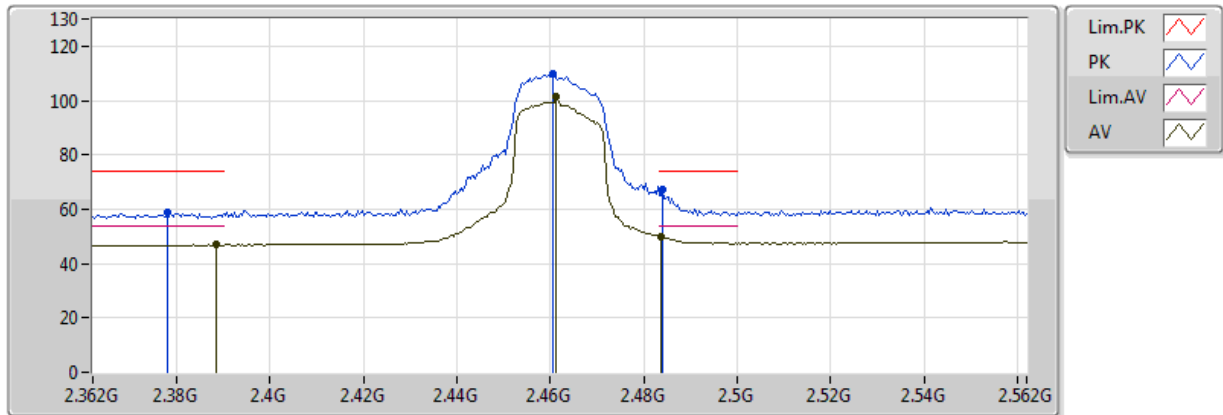


20170607
EUT_Z_4TX
Setting 85
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87394G	46.62	54.00	-7.38	8.24	3	H	108	2.75	-
AV	7.31186G	53.72	54.00	-0.28	12.19	3	H	8	2.60	-
PK	4.87416G	51.56	74.00	-22.44	8.24	3	H	108	2.75	-
PK	7.31168G	69.49	74.00	-4.51	12.19	3	H	8	2.60	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

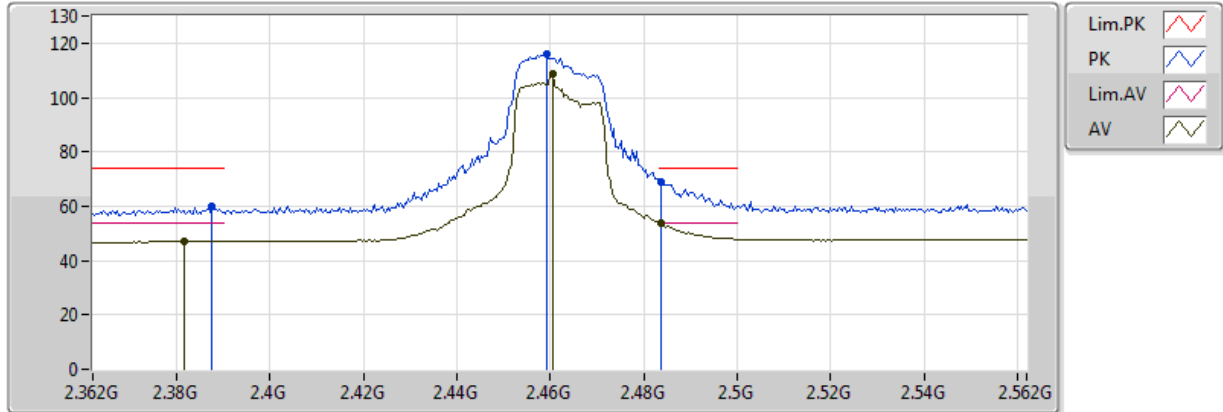


20170607
EUT_Z_4TX
Setting 76
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3884G	46.83	54.00	-7.17	31.93	3	V	295	2.29	-
AV	2.4612G	101.28	Inf	-Inf	32.15	3	V	295	2.29	-
AV	2.4836G	49.83	54.00	-4.17	32.22	3	V	295	2.29	-
PK	2.378G	58.84	74.00	-15.16	31.90	3	V	295	2.29	-
PK	2.4604G	109.91	Inf	-Inf	32.15	3	V	295	2.29	-
PK	2.484G	67.20	74.00	-6.80	32.22	3	V	295	2.29	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

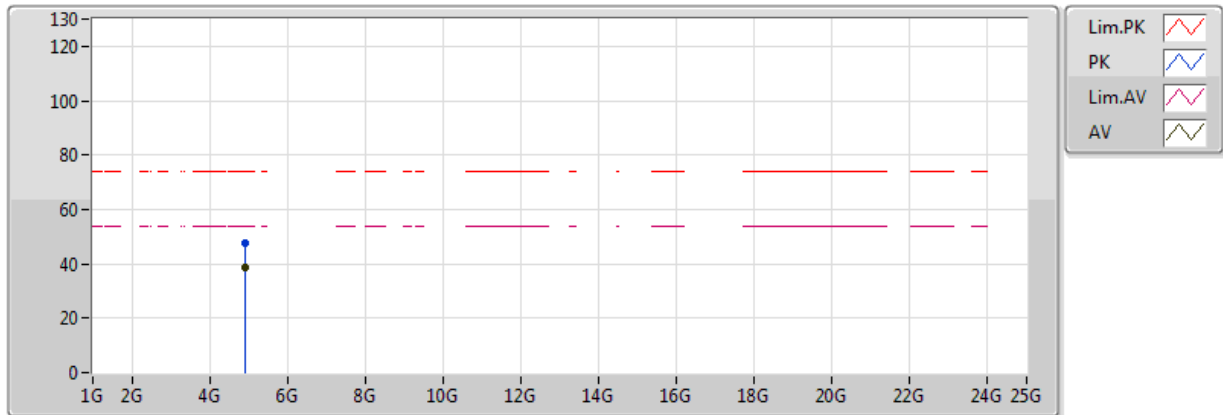


20170607
EUT_Z_4TX
Setting 76
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3816G	47.26	54.00	-6.74	31.91	3	H	306	2.77	-
AV	2.4604G	108.91	Inf	-Inf	32.15	3	H	306	2.77	-
AV	2.4836G	53.90	54.00	-0.10	32.22	3	H	306	2.77	-
PK	2.3876G	59.84	74.00	-14.16	31.93	3	H	306	2.77	-
PK	2.4592G	116.06	Inf	-Inf	32.15	3	H	306	2.77	-
PK	2.4836G	69.19	74.00	-4.81	32.22	3	H	306	2.77	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

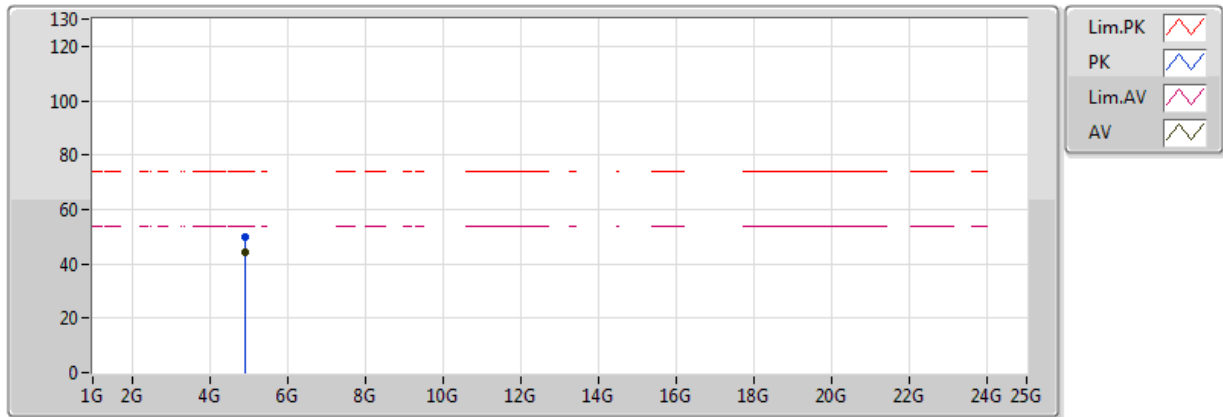


20170607
EUT_Z_4TX
Setting 76
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9238G	38.45	54.00	-15.55	8.39	3	V	276	2.80	-
PK	4.92384G	47.40	74.00	-26.60	8.39	3	V	276	2.80	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

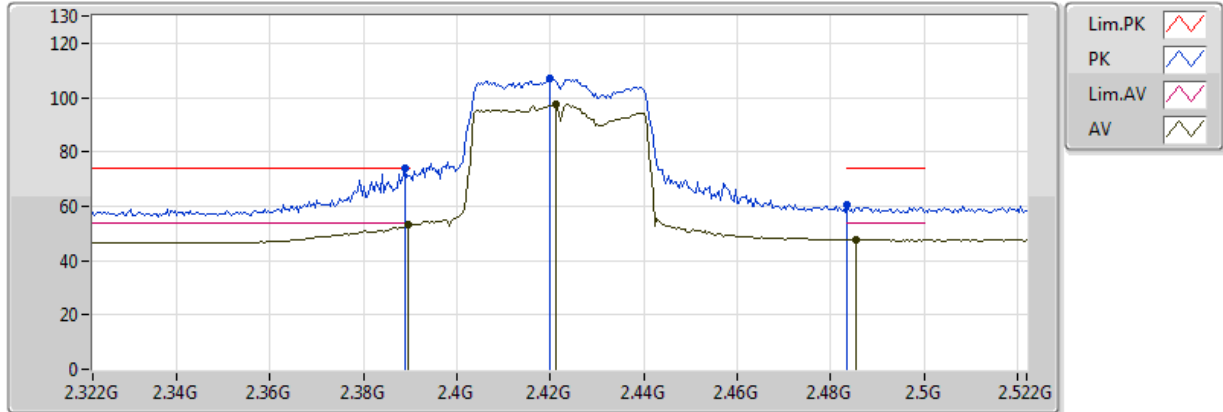


20170607
EUT_Z_4TX
Setting 76
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92384G	43.99	54.00	-10.01	8.39	3	H	56	2.31	-
PK	4.92862G	49.75	74.00	-24.25	8.41	3	H	56	2.31	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

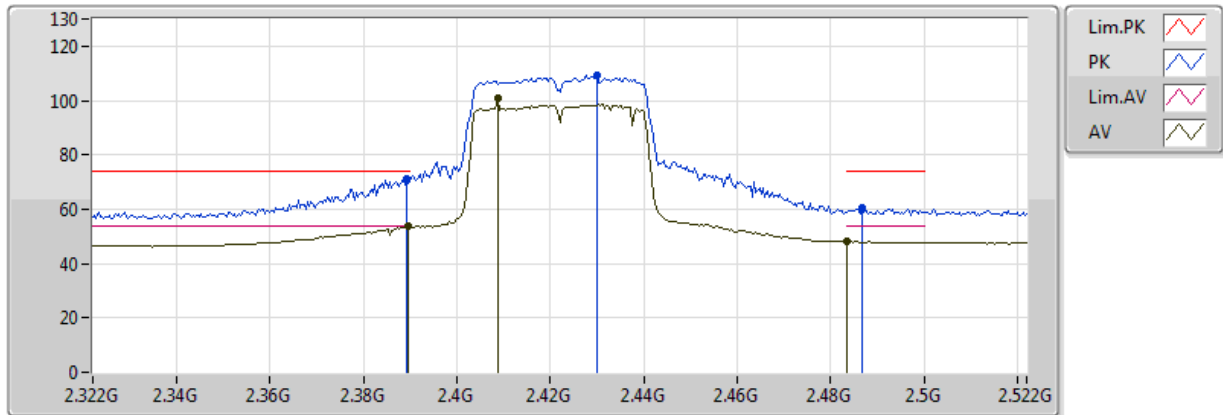


20170607
EUT_Z_4TX
Setting 66
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3896G	53.18	54.00	-0.82	31.94	3	V	284	2.88	-
AV	2.4212G	97.43	Inf	-Inf	32.03	3	V	284	2.88	-
AV	2.4856G	47.63	54.00	-6.37	32.23	3	V	284	2.88	-
PK	2.3888G	73.78	74.00	-0.22	31.94	3	V	284	2.88	-
PK	2.42G	106.85	Inf	-Inf	32.03	3	V	284	2.88	-
PK	2.4836G	60.46	74.00	-13.54	32.22	3	V	284	2.88	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

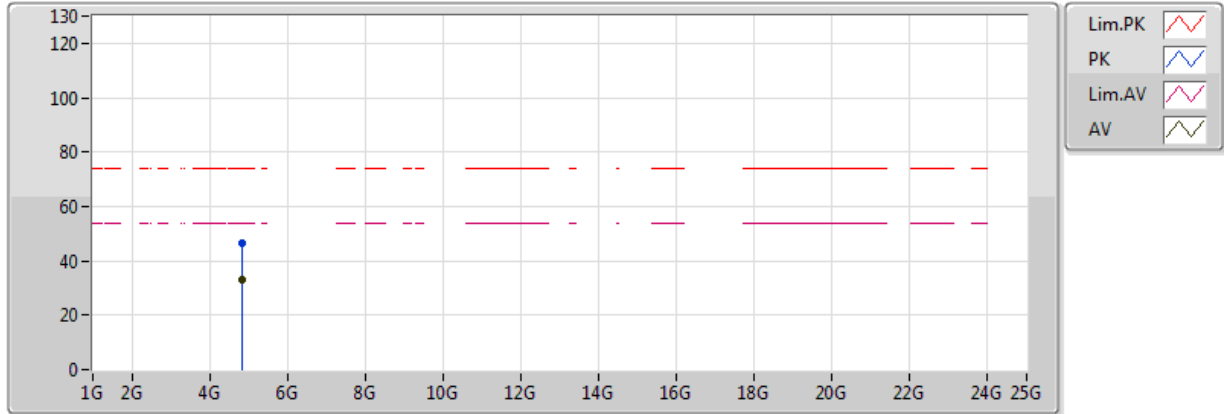


20170607
EUT_Z_4TX
Setting 66
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3896G	53.77	54.00	-0.23	31.94	3	H	64	1.90	-
AV	2.4088G	101.08	Inf	-Inf	32.00	3	H	64	1.90	-
AV	2.4836G	48.10	54.00	-5.90	32.22	3	H	64	1.90	-
PK	2.3892G	71.02	74.00	-2.98	31.94	3	H	64	1.90	-
PK	2.43G	109.47	Inf	-Inf	32.06	3	H	64	1.90	-
PK	2.4868G	60.34	74.00	-13.66	32.23	3	H	64	1.90	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

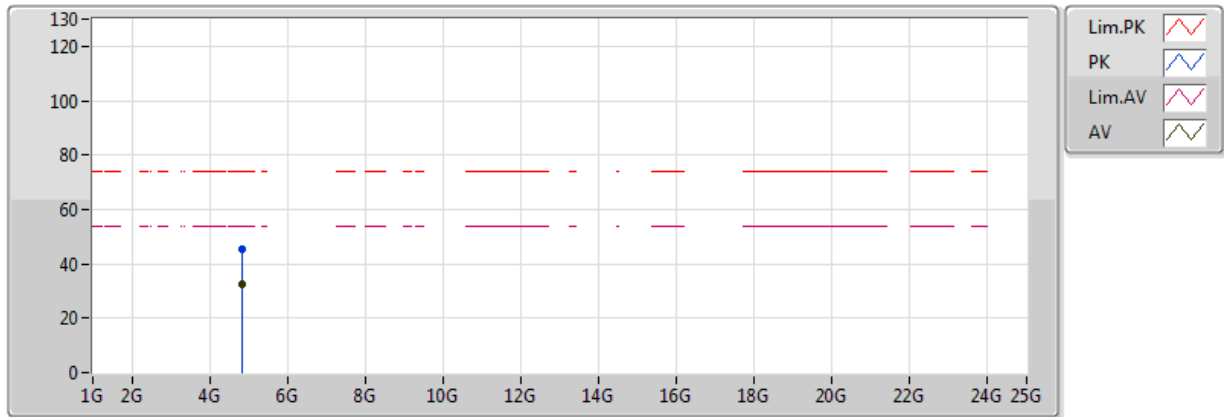


20170607
EUT_Z_4TX
Setting 66
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.83912G	32.89	54.00	-21.11	8.13	3	V	39	2.55	-
PK	4.84698G	46.39	74.00	-27.61	8.16	3	V	39	2.55	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

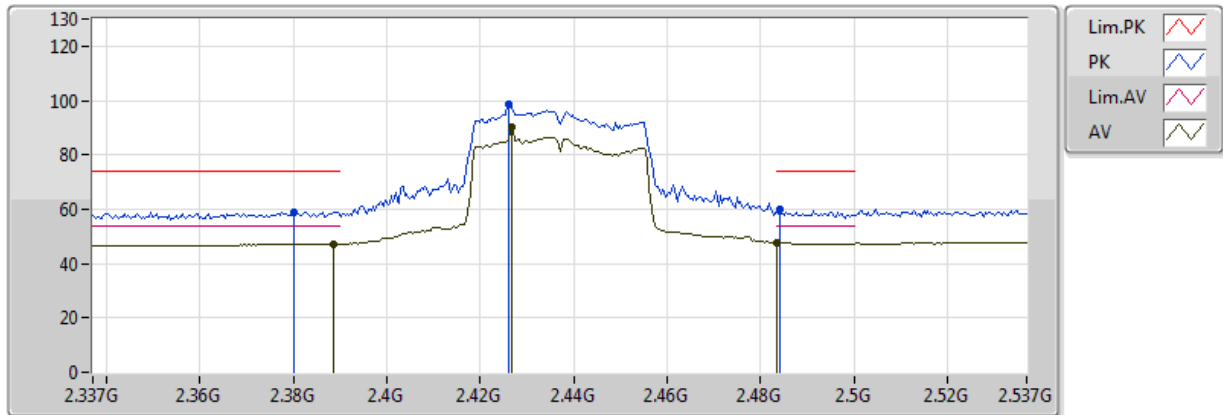


20170607
EUT_Z_4TX
Setting 66
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.84254G	32.35	54.00	-21.65	8.14	3	H	265	2.64	-
PK	4.84074G	45.61	74.00	-28.39	8.14	3	H	265	2.64	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

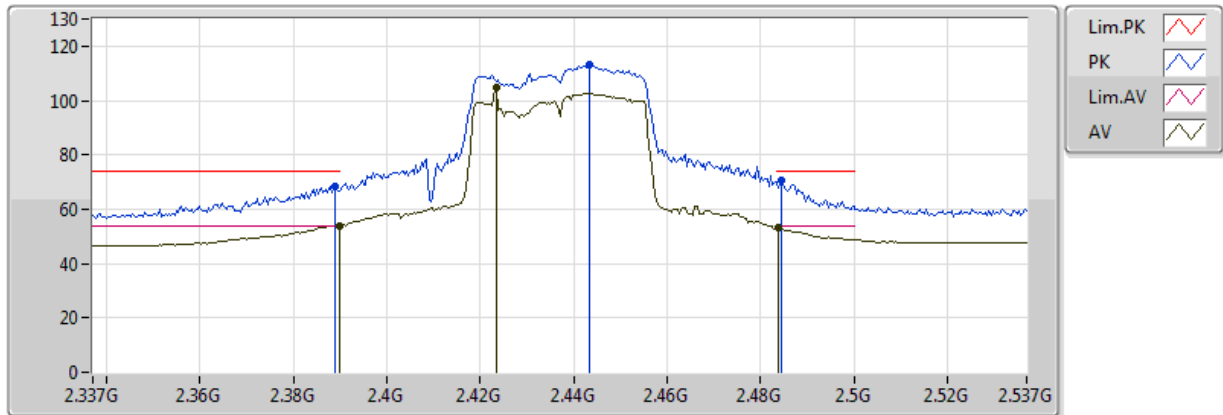


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EUT_Z_4TX
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02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3886G	47.22	54.00	-6.78	31.93	3	V	331	1.18	-
AV	2.4266G	90.42	Inf	-Inf	32.05	3	V	331	1.18	-
AV	2.483502G	47.75	54.00	-6.25	32.22	3	V	331	1.18	-
PK	2.3802G	59.09	74.00	-14.91	31.91	3	V	331	1.18	-
PK	2.4262G	98.54	Inf	-Inf	32.05	3	V	331	1.18	-
PK	2.4842G	60.16	74.00	-13.84	32.22	3	V	331	1.18	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

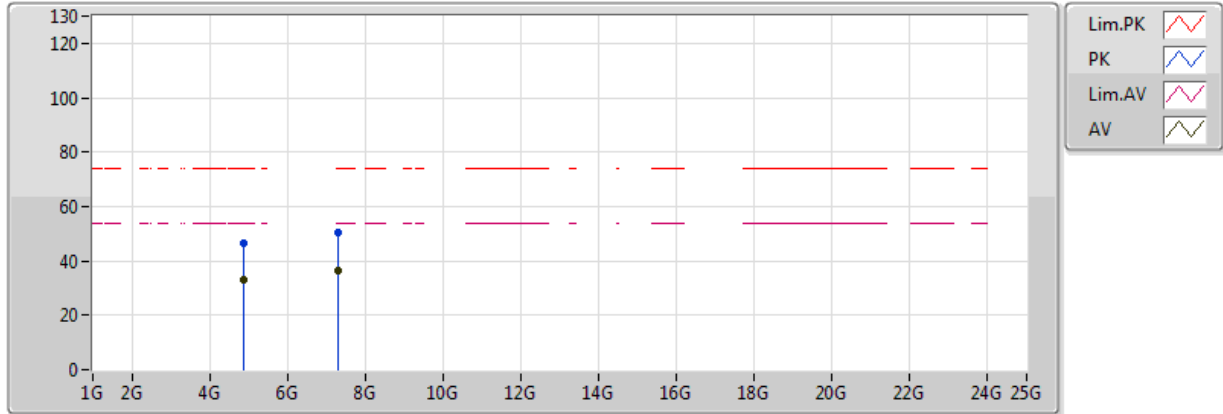


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EUT_Z_4TX
Setting 70
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	53.97	54.00	-0.03	31.94	3	H	311	1.30	-
AV	2.4234G	104.87	Inf	-Inf	32.04	3	H	311	1.30	-
AV	2.4838G	53.40	54.00	-0.60	32.22	3	H	311	1.30	-
PK	2.389G	68.24	74.00	-5.76	31.94	3	H	311	1.30	-
PK	2.4434G	112.98	Inf	-Inf	32.10	3	H	311	1.30	-
PK	2.4846G	70.41	74.00	-3.59	32.22	3	H	311	1.30	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

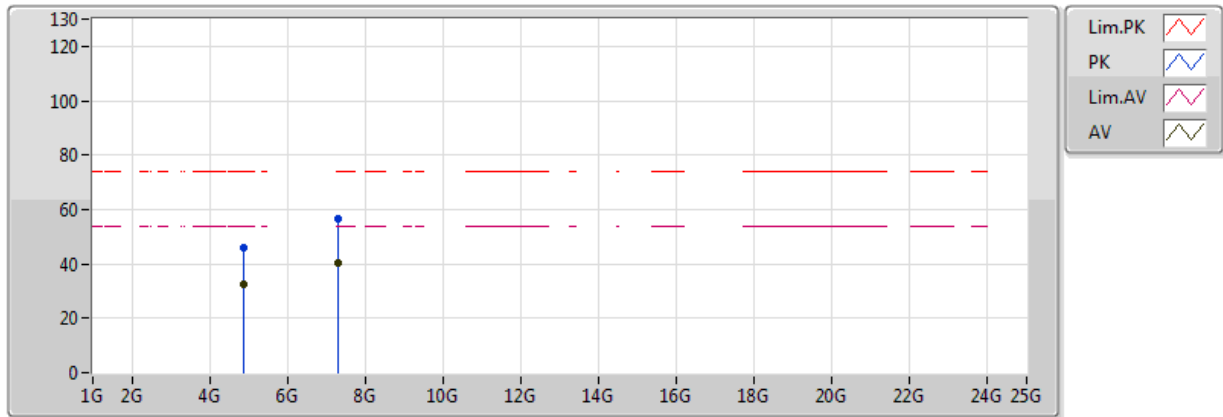


20170607
EUT_Z_4TX
Setting 70
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.86904G	33.16	54.00	-20.84	8.22	3	V	33	2.97	-
AV	7.31064G	36.51	54.00	-17.49	12.19	3	V	124	1.71	-
PK	4.86978G	46.57	74.00	-27.43	8.23	3	V	33	2.97	-
PK	7.31516G	50.50	74.00	-23.50	12.20	3	V	124	1.71	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

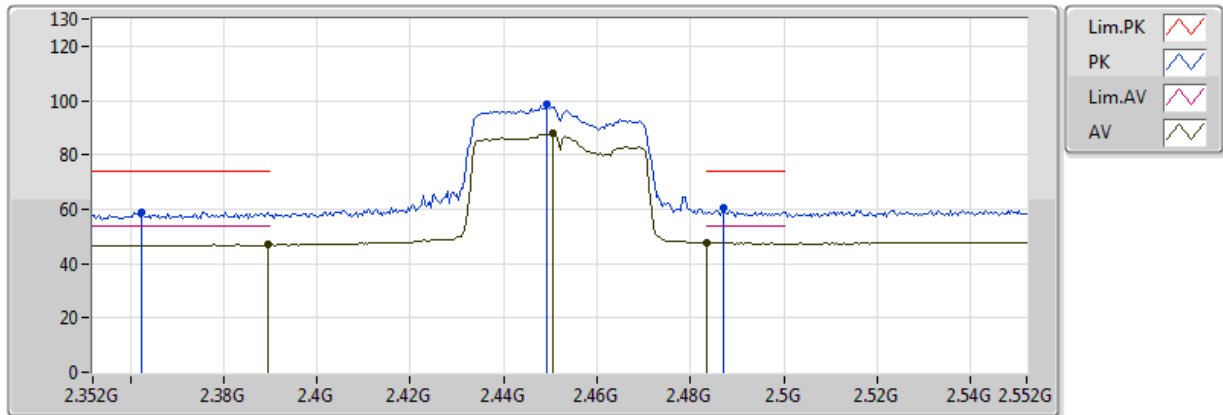


20170607
EUT_Z_4TX
Setting 70
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87134G	32.26	54.00	-21.74	8.23	3	H	81	1.57	-
AV	7.30764G	40.37	54.00	-13.63	12.19	3	H	3	2.94	-
PK	4.87828G	46.18	74.00	-27.82	8.25	3	H	81	1.57	-
PK	7.30942G	56.72	74.00	-17.28	12.19	3	H	3	2.94	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

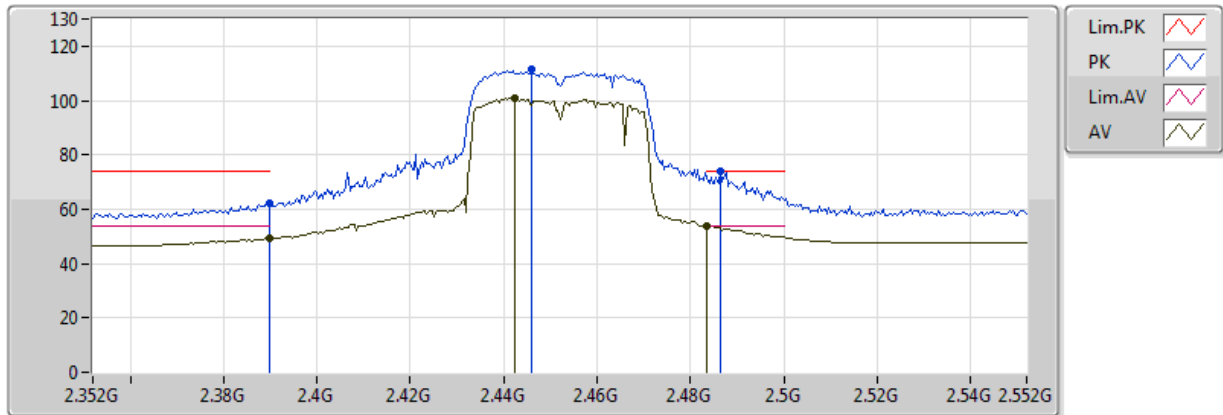


20170607
EUT_Z_4TX
Setting 67
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3896G	46.89	54.00	-7.11	31.94	3	V	262	1.50	-
AV	2.4504G	87.93	Inf	-Inf	32.12	3	V	262	1.50	-
AV	2.4836G	47.77	54.00	-6.23	32.22	3	V	262	1.50	-
PK	2.3624G	59.08	74.00	-14.92	31.85	3	V	262	1.50	-
PK	2.4492G	98.38	Inf	-Inf	32.12	3	V	262	1.50	-
PK	2.4872G	60.34	74.00	-13.66	32.23	3	V	262	1.50	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

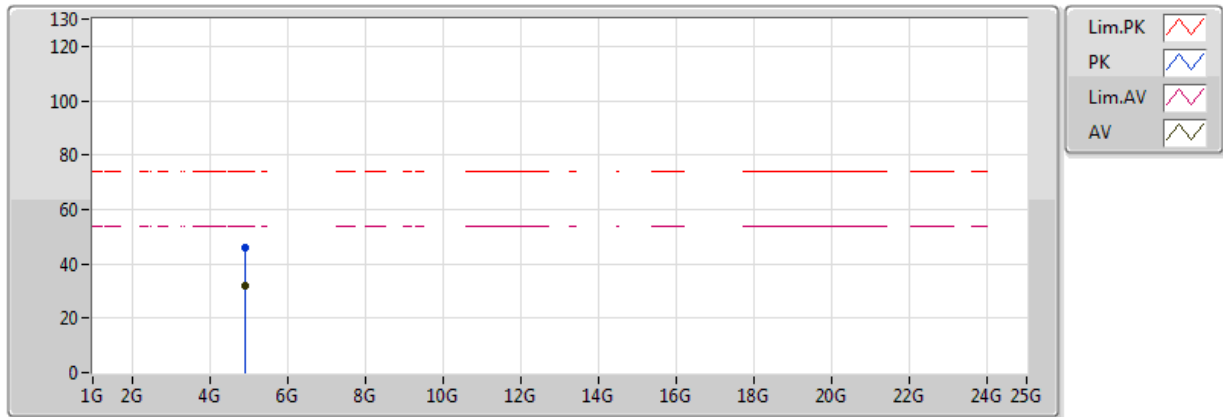


20170607
EUT_Z_4TX
Setting 67
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	49.47	54.00	-4.53	31.94	3	H	313	1.50	-
AV	2.4424G	100.64	Inf	-Inf	32.10	3	H	313	1.50	-
AV	2.4836G	53.82	54.00	-0.18	32.22	3	H	313	1.50	-
PK	2.39G	62.26	74.00	-11.74	31.94	3	H	313	1.50	-
PK	2.446G	111.23	Inf	-Inf	32.11	3	H	313	1.50	-
PK	2.4864G	73.82	74.00	-0.18	32.23	3	H	313	1.50	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

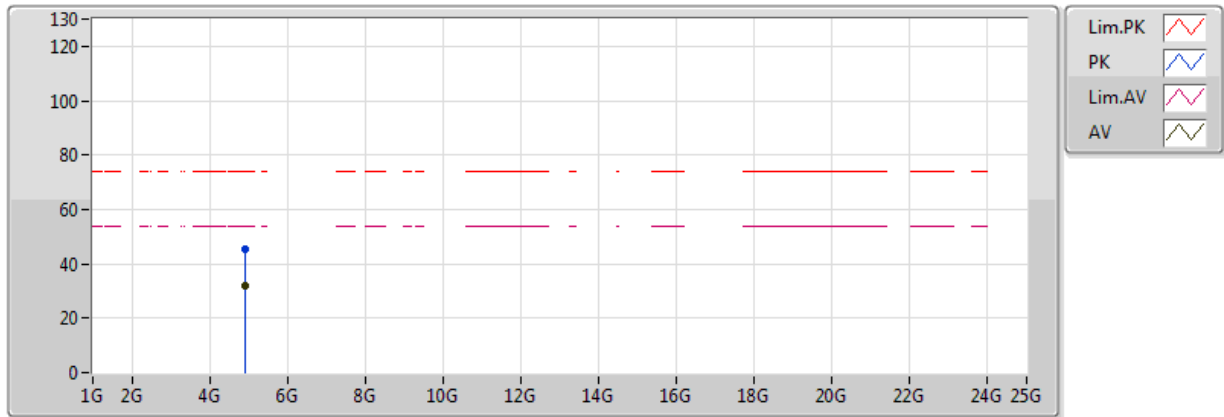


20170607
EUT_Z_4TX
Setting 67
02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.90562G	31.89	54.00	-22.11	8.34	3	V	57	1.13	-
PK	4.90518G	45.78	74.00	-28.22	8.34	3	V	57	1.13	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX



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02-W-3
FSU
TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.90404G	31.90	54.00	-22.10	8.33	3	H	17	1.32	-
PK	4.90172G	45.31	74.00	-28.69	8.33	3	H	17	1.32	-