

NCC Test Report

Equipment : BANDOTT 無線 Mesh 子機
Brand Name : Ubee
Model No. : 95.2225T
Standard : LP0002 Section 3.10.1 (2016-08-23)
Operating Band : 2400 MHz – 2483.5 MHz
Function : ☒ Point-to-multipoint; ☐ Point-to-point
Applicant : 鴻海精密工業股份有限公司
 新北市土城區中山路 66 號
Manufacturer : 鴻海精密工業股份有限公司
 新北市土城區中山路 66 號

The product sample received on Sep. 29, 2017 and completely tested on Oct. 07, 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.


Cliff Chang
SPORTON INTERNATIONAL INC.



Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Testing Applied Standards	7
1.3	Testing Location Information	7
1.4	Measurement Uncertainty	7
2	TEST CONFIGURATION OF EUT	8
2.1	Test Channel Mode	8
2.2	The Worst Case Measurement Configuration.....	9
2.3	EUT Operation during Test	10
2.4	Accessories	10
2.5	Support Equipment.....	11
2.6	Test Setup Diagram	12
3	TRANSMITTER TEST RESULT	16
3.1	AC Power-line Conducted Emissions	16
3.2	DTS Bandwidth	18
3.3	Maximum Conducted Output Power	19
3.4	Power Spectral Density	21
3.5	Emissions in Non-restricted Frequency Bands	23
3.6	Emissions in Restricted Frequency Bands.....	24
4	TEST EQUIPMENT AND CALIBRATION DATA	29
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS		
APPENDIX B. TEST RESULTS OF DTS BANDWIDTH		
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER		
APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY		
APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS		
APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS		
APPENDIX G. TEST PHOTOS		
PHOTOGRAPHS OF EUT V02		

Summary of Test Result

Conformance Test Specifications				
Report Clause	Ref. Std. Clause	Description	Limit	Result
1.1.2	3.10.1.4	Antenna Requirement	LP0002-2.2	Complied
3.1	2.3	AC Power-line Conducted Emissions	LP0002-2.3	Complied
3.2	3.10.1.6	DTS Bandwidth	≥500kHz	Complied
3.3	3.10.1.2	Maximum Conducted Output Power	Power [dBm]:30	Complied
3.4	3.10.1.6	Power Spectral Density	PSD [dBm/3kHz]:8	Complied
3.5	3.10.1.5	Emissions in Non-restricted Frequency Bands	Non-Restricted Bands: > 30 dBc	Complied
3.6	3.10.1.5	Emissions in Restricted Frequency Bands	Restricted Bands: LP0002-2.8	Complied



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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	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT20-BF	20	2TX
2.4-2.4835GHz	802.11ac VHT20	20	2TX
2.4-2.4835GHz	802.11ac VHT20-BF	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11n HT40-BF	40	2TX
2.4-2.4835GHz	802.11ac VHT40	40	2TX
2.4-2.4835GHz	802.11ac VHT40-BF	40	2TX

Note:

- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)		
						WLAN 2.4GHz	WLAN 5GHz	BT
1	1	Master Wave	902P00165S0	PIFA Antenna	N/A	4.69	4.79	-
2	2	Master Wave	902P00165S0	PIFA Antenna	N/A	4.70	4.78	-
3	1	INPAQ	N/A	Chip Antenna	N/A	-	-	2.73

Note: The EUT has three antennas.

For 2.4GHz Functions

For IEEE 802. 11b/g/n/ac mode (2TX/2RX):

Port 1 and Port 2 can be use as transmitting/receive antennas.

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz Functions

For IEEE 802. 11a/n/ac mode (2TX/2RX):

Port 1 and Port 2 can be use as transmitting/receive antennas.

Port 1 and Port 2 could transmit/receive simultaneously.

For Bluetooth Functions

Only Port 1 can be use as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.992	0.035	0.035	n/a (DC $\geq$ 0.98)
802.11g	0.961	0.173	0.173	2.068m
802.11ac VHT20	0.984	0.07	0.07	n/a (DC $\geq$ 0.98)
802.11ac VHT20-BF	0.918	0.372	0.372	1.815m
802.11ac VHT40	0.966	0.15	0.15	2.468m
802.11ac VHT40-BF	0.913	0.395	0.395	1.743m

1.1.4 EUT Operational Condition

EUT Power Type	From Internal Power Supply			
Beamforming Function	☒	With beamforming for IEEE 802 n/ac in 2.4GHz and 5GHz	☐	Without beamforming
Test Software Version	QRCT Version3.0.233.0			

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ NCC LP0002 (2016-08-23)
- ♦ 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	Eddie Weng / Brian Sun	22°C / 54%	Oct. 02, 2017~Oct. 07, 2017
Radiated	03CH01-CB	Welson Chen / Paul Chen / Justin Lin	22°C / 54%	Sep. 29, 2017~Oct. 07, 2017
AC Conduction	CO01-CB	Deven Huang	23°C / 60%	Oct. 06, 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	9.74×10^{-8}	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	19.5
2437MHz	22
2462MHz	21.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	16
2437MHz	23
2462MHz	15.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
2412MHz	15.5
2437MHz	23
2462MHz	15.5
802.11ac VHT40_Nss1,(MCS0)_2TX	-
2422MHz	13.5
2437MHz	17
2452MHz	16
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
2412MHz	18
2437MHz	25
2462MHz	19
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
2422MHz	16
2437MHz	25
2452MHz	18

Note:

- ♦ 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.
- ♦ There are two modes of EUT for 802.11n/ac in 2.4GHz/5GHz. One is beamforming mode, and the other is non-beamforming mode. Both modes have been tested and recorded in this test 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	Intentional - CTX
1	CTX - 2.4GHz
2	CTX - 5GHz
3	CTX - Bluetooth 4.0
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode	Unintentional - CRX
1	CRX - 2.4GHz
2	CRX - 5GHz
3	CRX - Bluetooth 4.0
For operating mode 2 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Intentional - CTX
1	CTX - 2.4GHz
2	CTX - 5GHz
3	CTX - Bluetooth 4.0
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode < 1GHz	Unintentional - CRX
1	CRX - 2.4GHz
2	CRX - 5GHz
3	CRX - Bluetooth 4.0
For operating mode 1 is the worst case and it was record in this test report.	

Operating Mode Unintentional 1GHz~5th	Unintentional - CRX
1	CRX - 2.4GHz
2	CRX - 5GHz
3	CRX - Bluetooth 4.0
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode Unintentional 1GHz~10th	Intentional - CTX
1	2.4GHz

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

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 Telnet.
3. Executed "Telnet" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

For CRX Mode:

The EUT was programmed to be in continuously receiving mode.

2.4 Accessories

N/A

2.5 Support Equipment

For Test Site No: 03CH01-CB (below 1GHz) / Intentional-CTX and Unintentional-CRX

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

For Test Site No: 03CH01-CB (above 1GHz) / Intentional-CRX 1GHz ~5th

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

For Test Site No: 03CH01-CB (above 1GHz) / Intentional-CTX 1GHz ~10th

For Non-Beamfoming Mode

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

For Beamfoming Mode

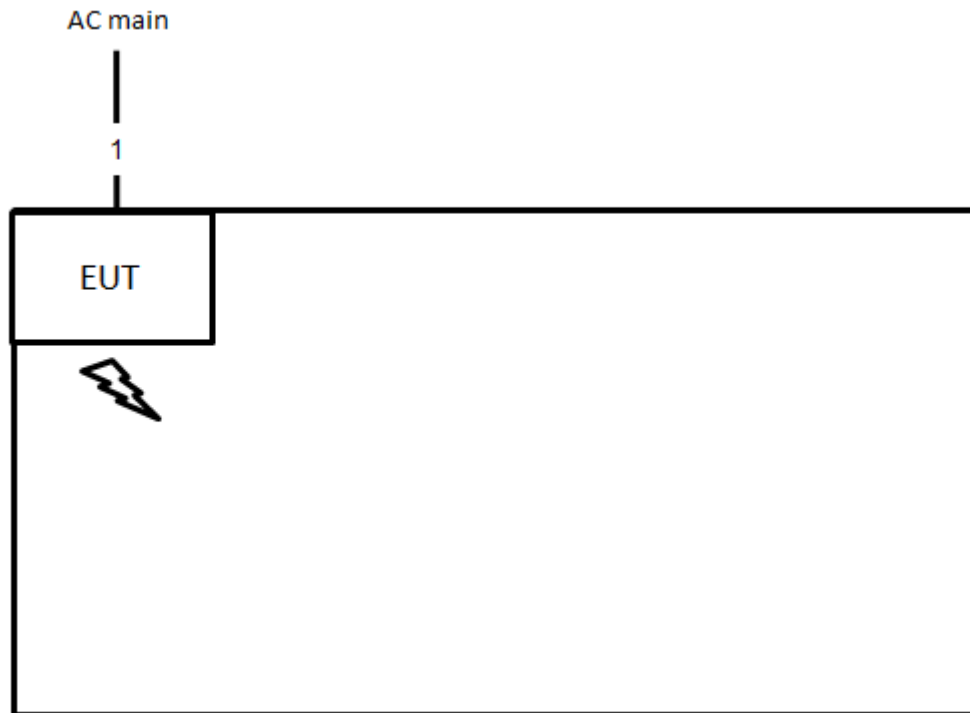
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	DoC
2	RX Device	Foxconn	T77H981	RX Device
3	Test Fixture	N/A	N/A	Test Fixture

For Test Site No: TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

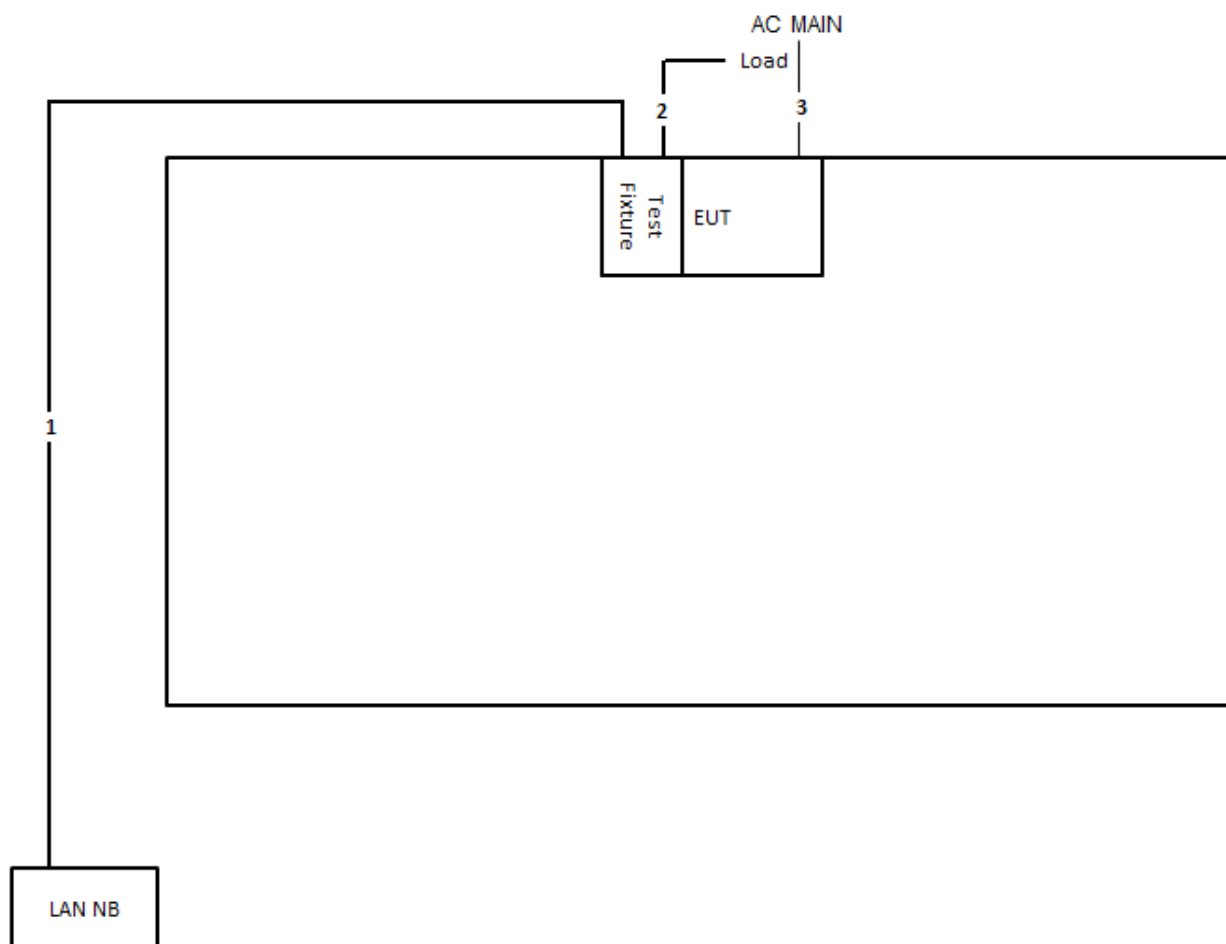
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test
Intentional-CTX and Unintentional-CRX



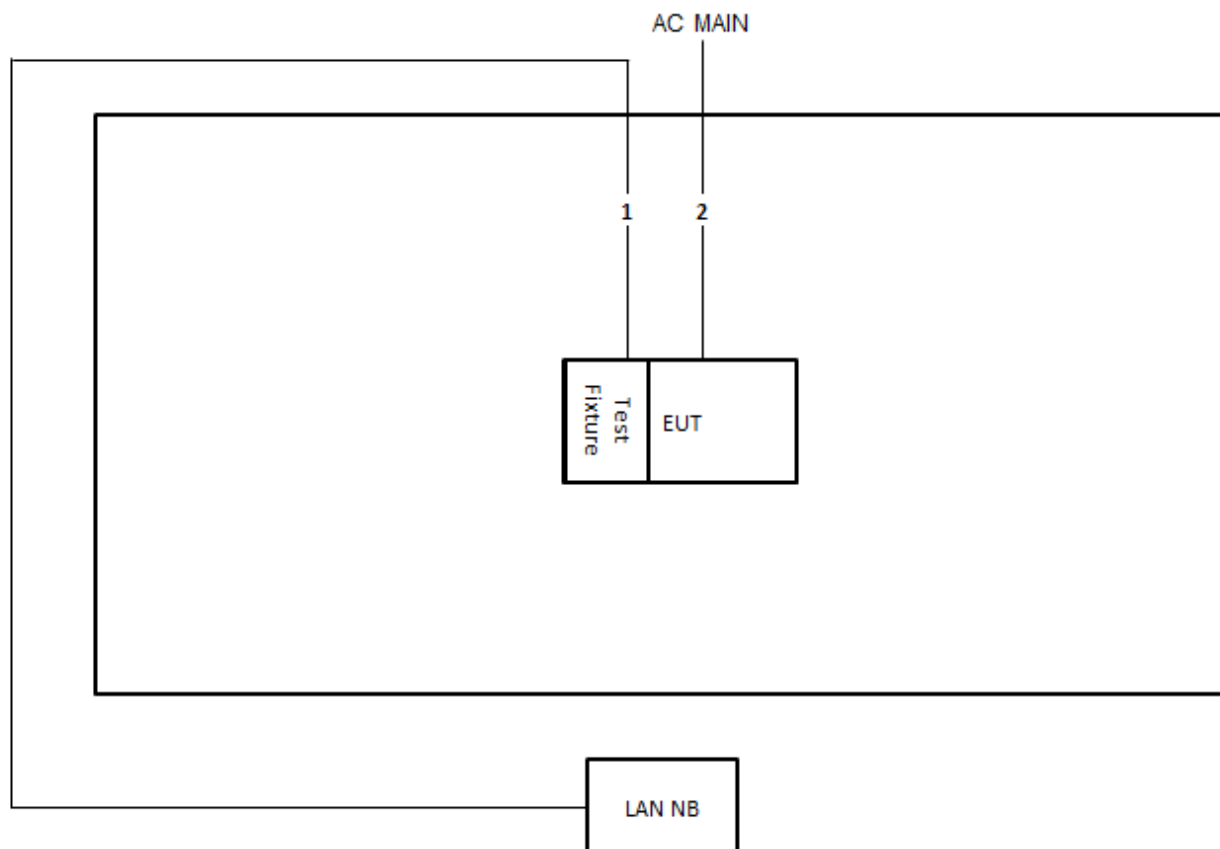
Item	Connection	Shielded	Length
1	Power cable	No	0.8m

Test Setup Diagram - Radiated Test < 1GHz / Intentional-CTX and Unintentional-CRX /
Radiated Test > 1GHz / Unintentional-CRX 1GHz~5th



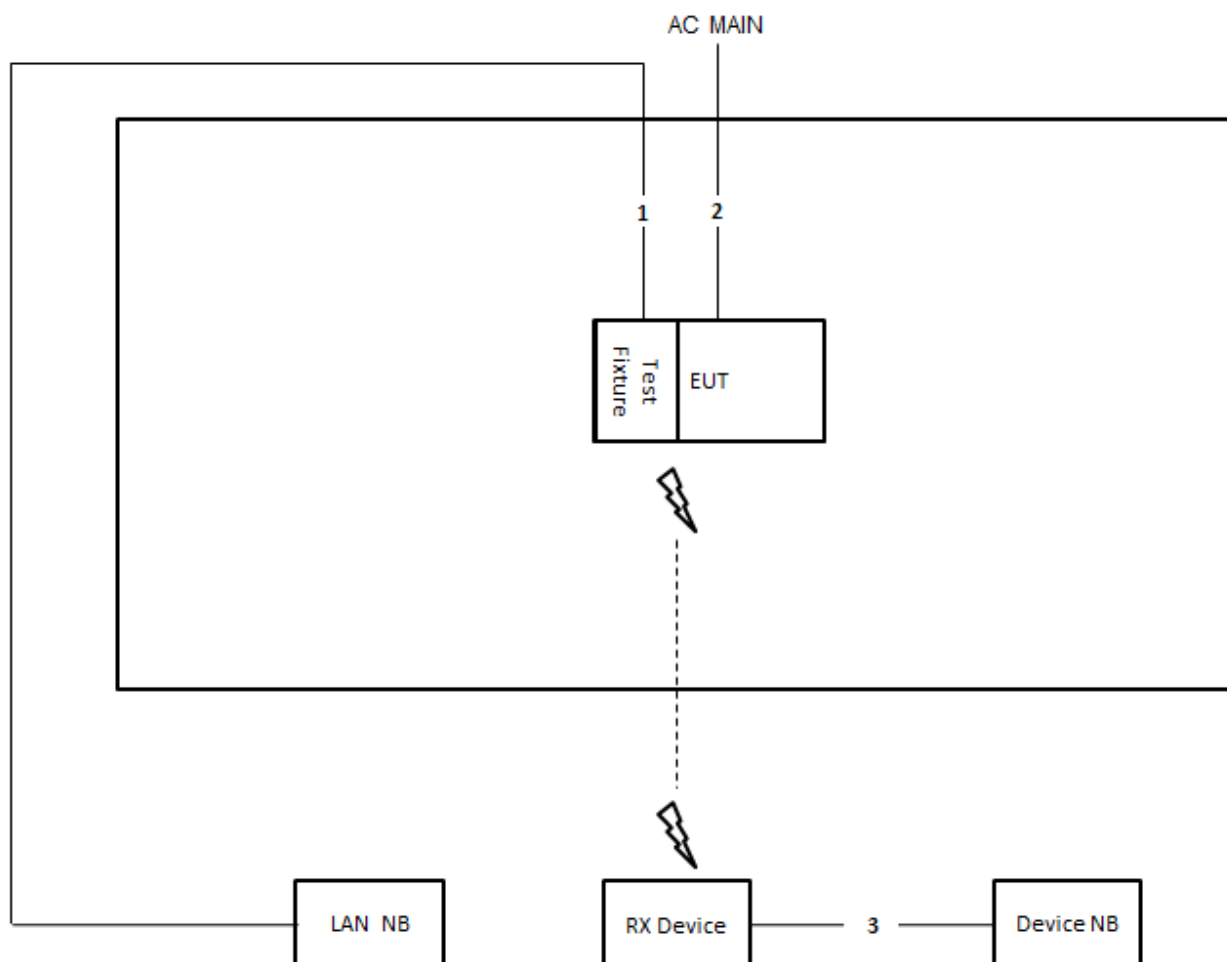
Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	1.8m

**Test Setup Diagram - Radiated Test > 1GHz / Intentional-CTX 1GHz ~10th
For non-beamforming mode**



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

Test Setup Diagram - Radiated Test > 1GHz / Intentional-CTX 1GHz ~10th
For Beamforming mode



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

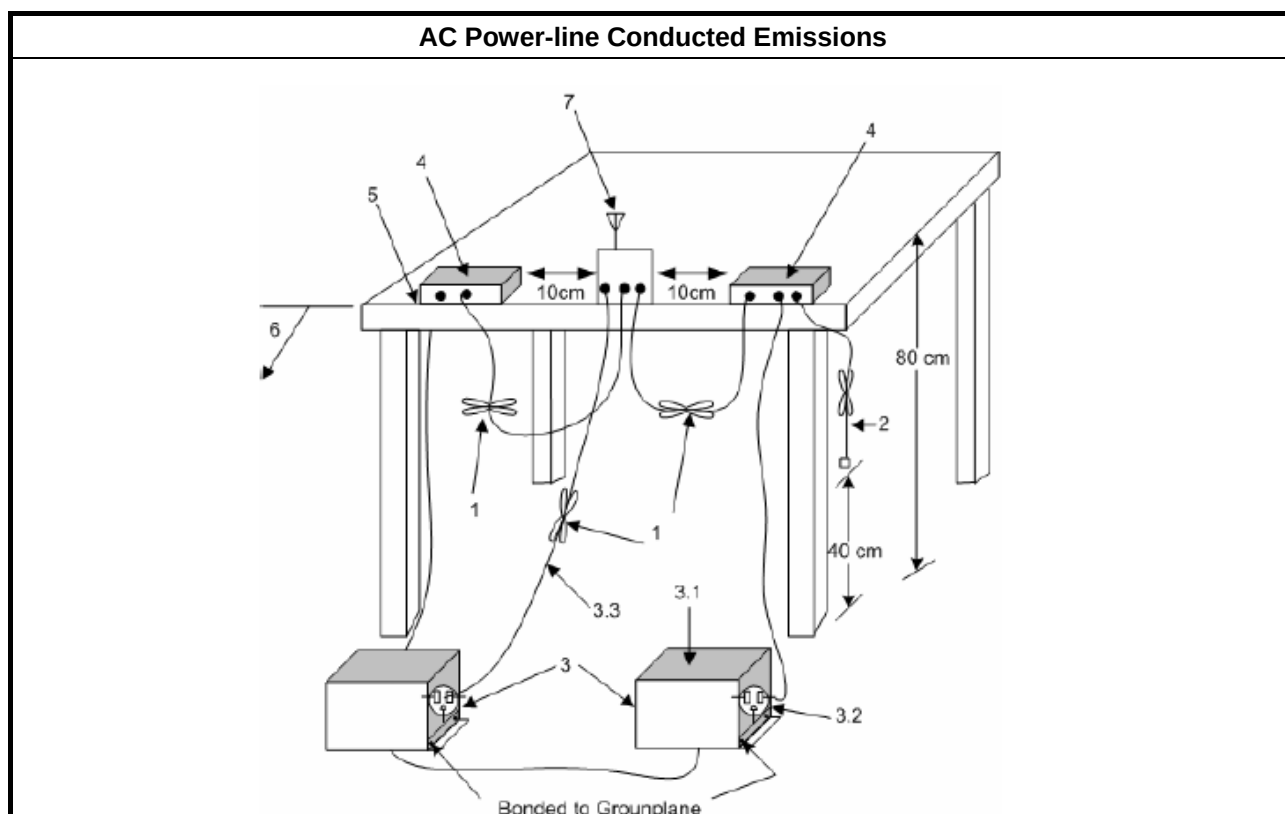
3.1.2 Measuring Instruments

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.

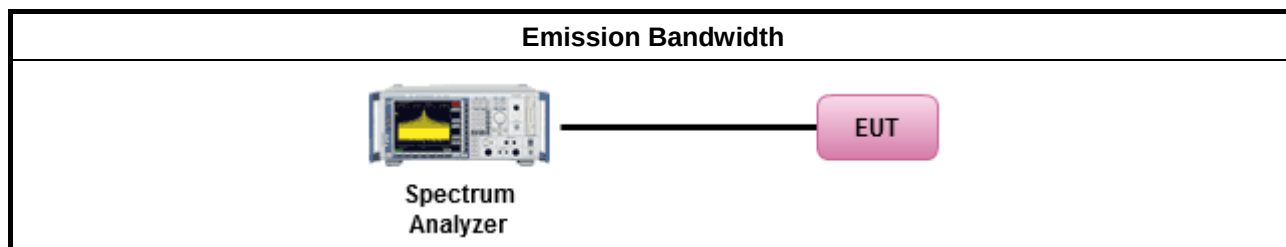
3.2.2 Measuring Instruments

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 $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

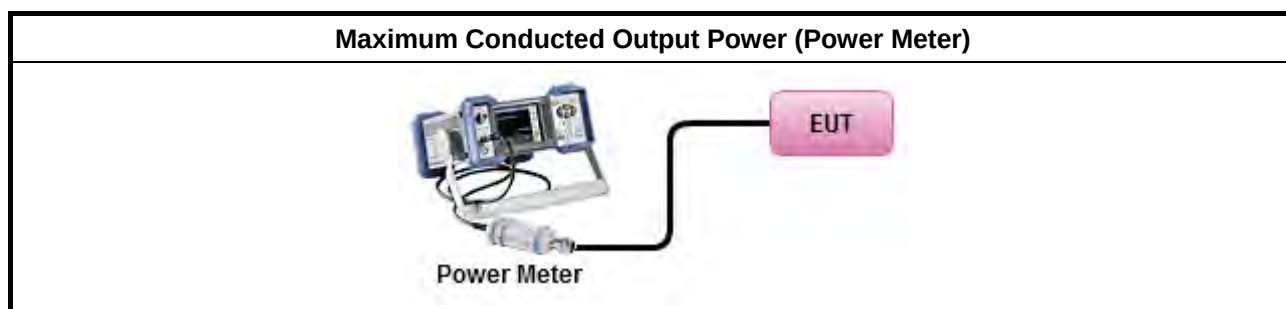
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
Power Spectral Density (PSD) $\leq$ 8 dBm/3kHz

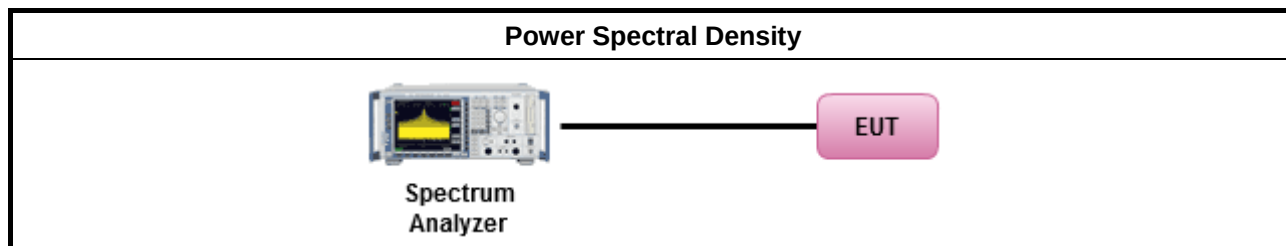
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
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.	

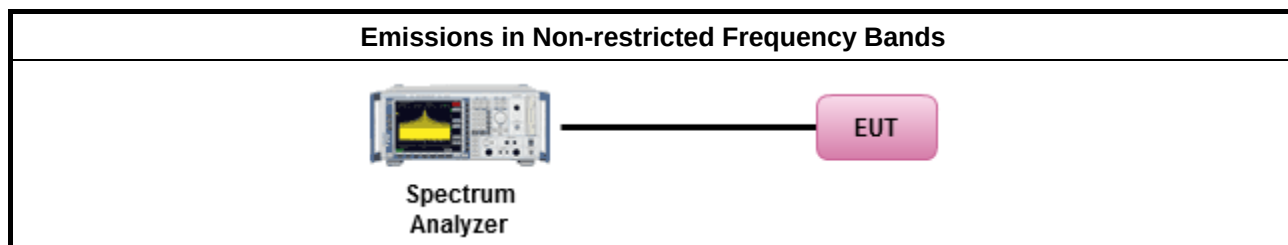
3.5.2 Measuring Instruments

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.

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

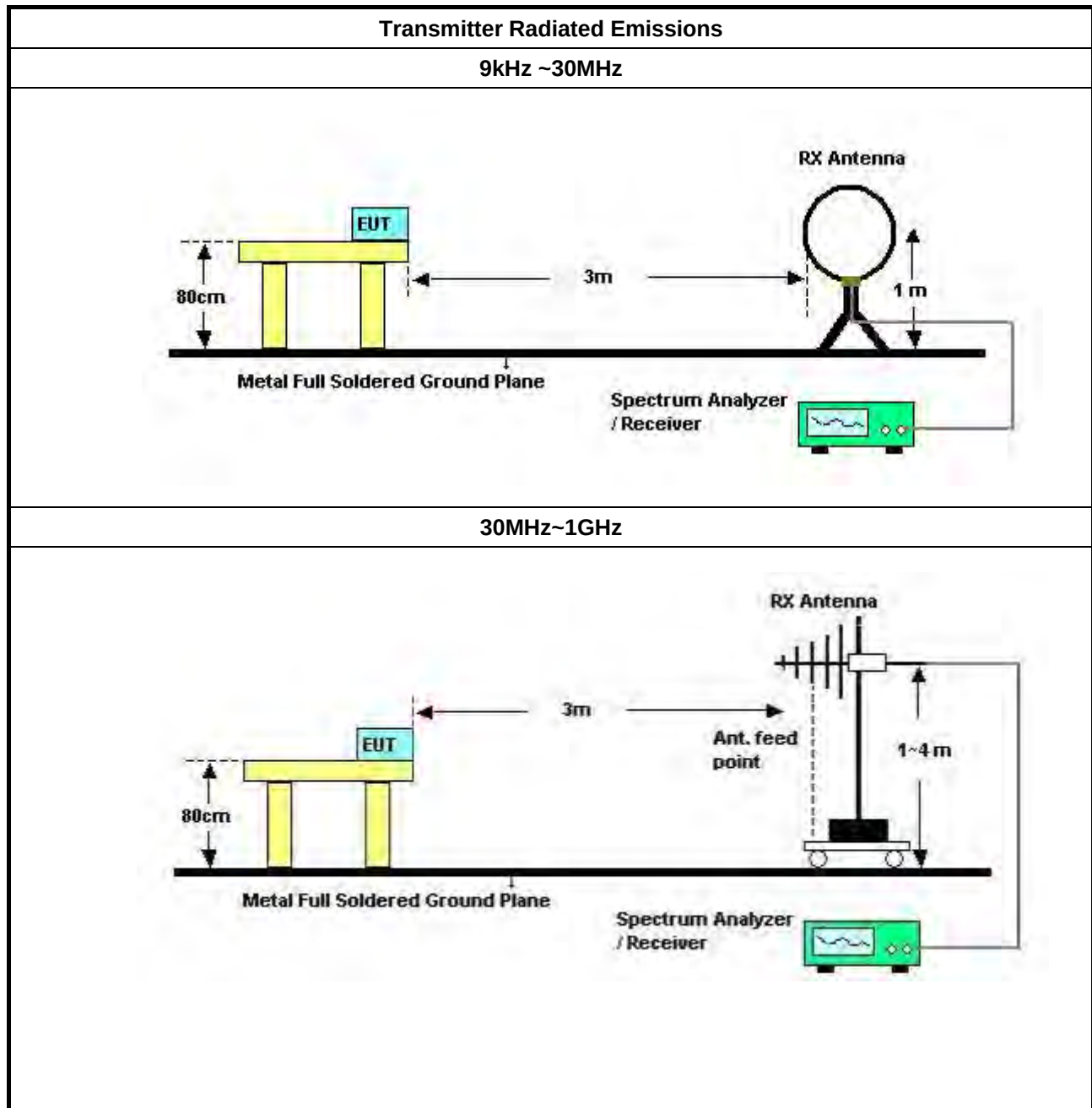
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

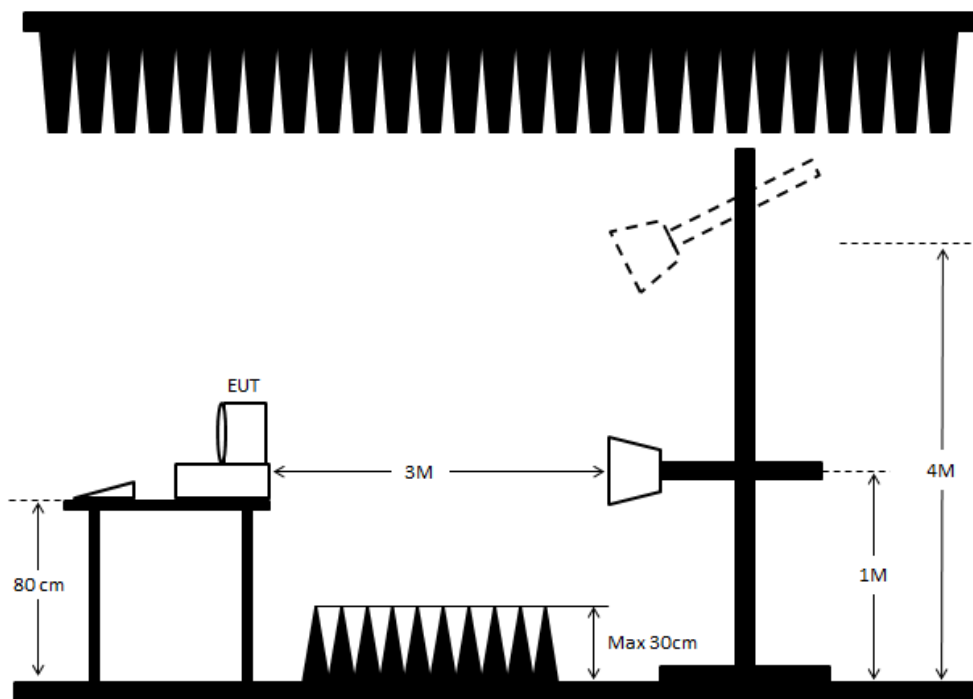
Test Method	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.9.2.2 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$)
	☐ 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

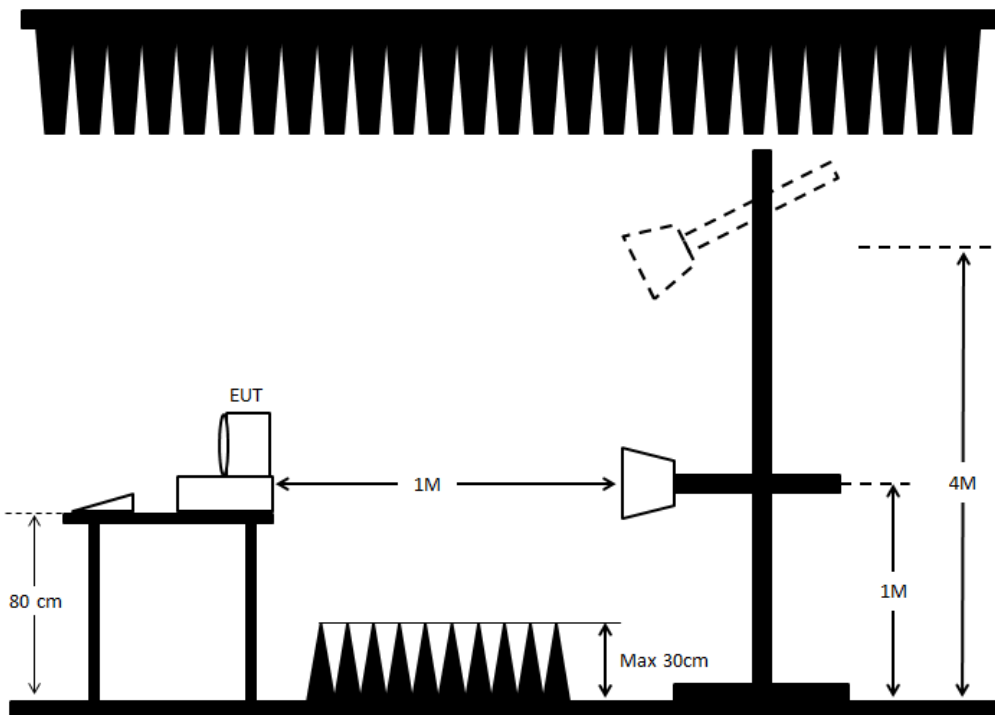


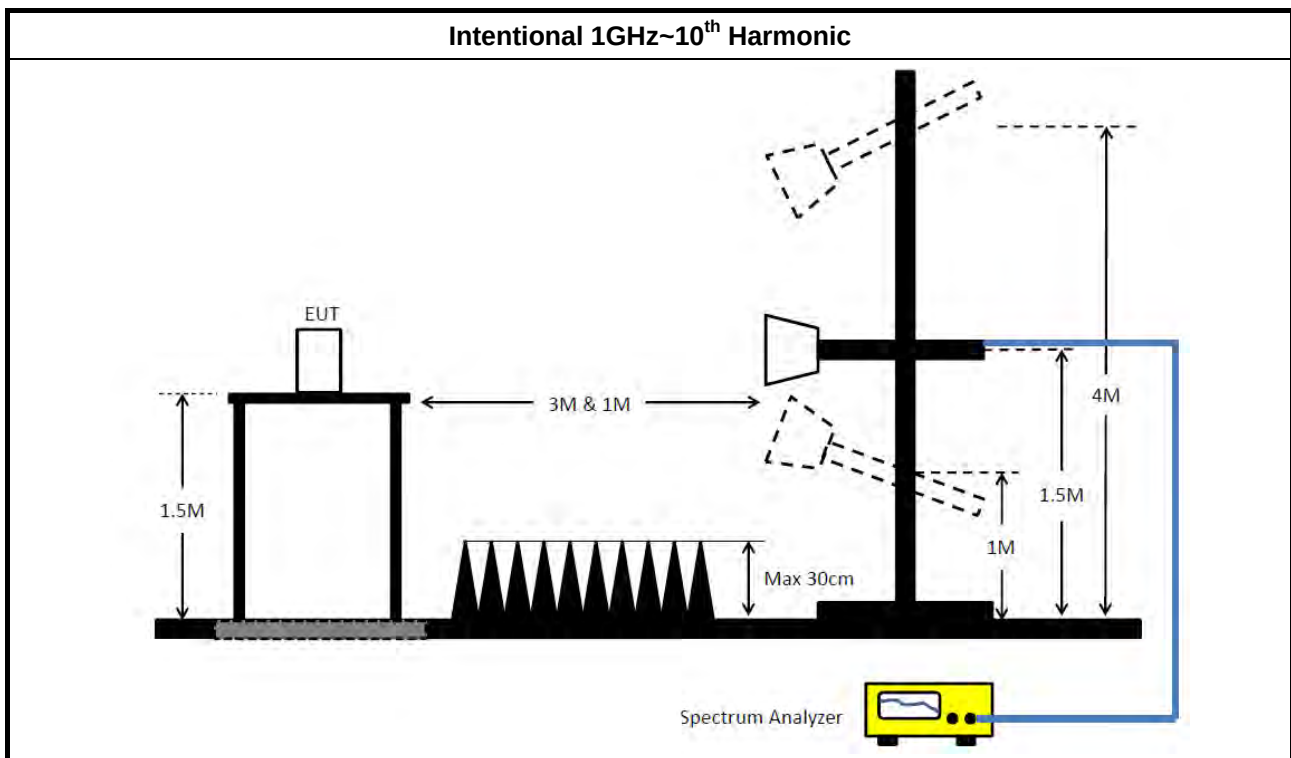
Unintentional 1GHz~5th Harmonic

1,000~18,000 MHz



18,000~30,000 MHz





3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Jan. 22, 2018	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 14, 2016	Dec. 13, 2017	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Dec. 20, 2017	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Nov. 09, 2017	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA917025 2	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Jan. 15, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Nov. 21, 2017	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Dec. 25, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz ~ 26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz ~ 26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)



NCC Test Report

Report No. : TR7O1217AA

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Nov. 21, 2017	Conducted (TH01-CB)

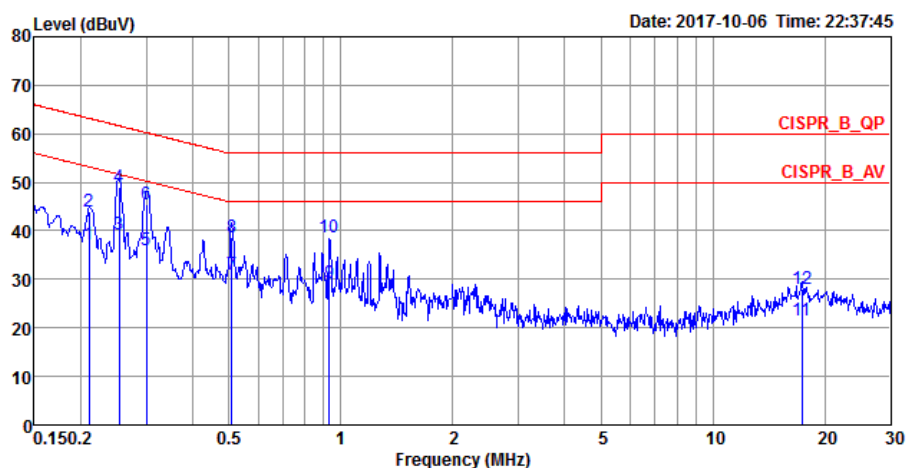
Note: Calibration Interval of instruments listed above is one year.

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

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

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Intentional - CTX		



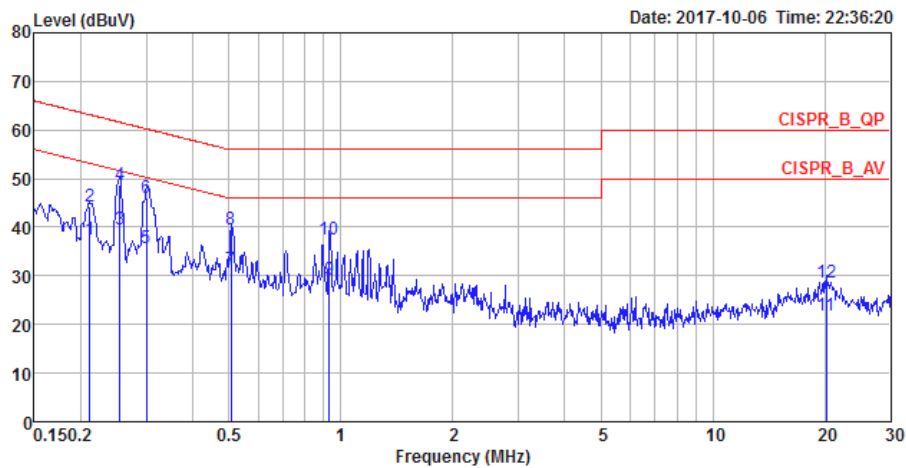
	Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase
	MHz	dBuV	Limit	Line	Level	Factor	Loss		
			dB	dBuV	dBuV	dB	dB		
1	0.2106	37.06	-16.12	53.18	26.89	10.05	0.12	Average	NEUTRAL
2	0.2106	44.03	-19.15	63.18	33.86	10.05	0.12	QP	NEUTRAL
3	0.2535	39.32	-12.32	51.64	29.15	10.08	0.09	Average	NEUTRAL
4	0.2535	48.86	-12.78	61.64	38.69	10.08	0.09	QP	NEUTRAL
5	0.3003	36.05	-14.19	50.24	25.84	10.15	0.06	Average	NEUTRAL
6	0.3003	45.37	-14.87	60.24	35.16	10.15	0.06	QP	NEUTRAL
7	0.5101	30.97	-15.03	46.00	20.69	10.22	0.06	Average	NEUTRAL
8	0.5101	38.77	-17.23	56.00	28.49	10.22	0.06	QP	NEUTRAL
9	0.9331	29.15	-16.85	46.00	18.90	10.07	0.18	Average	NEUTRAL
10	0.9331	38.56	-17.44	56.00	28.31	10.07	0.18	QP	NEUTRAL
11	17.3826	21.55	-28.45	50.00	11.05	10.30	0.20	Average	NEUTRAL
12	17.3826	28.17	-31.83	60.00	17.67	10.30	0.20	QP	NEUTRAL

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Intentional - CTX		

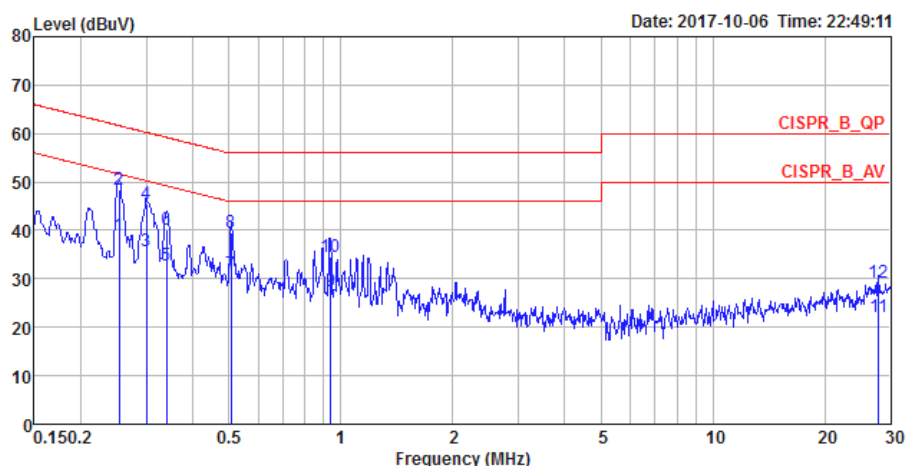


	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark	Pol/Phase
			dB	dBuV	dBuV	dB	dB		
1	0.2117	37.39	-15.75	53.14	27.35	9.92	0.12	Average	LINE
2	0.2117	44.41	-18.73	63.14	34.37	9.92	0.12	QP	LINE
3	0.2548	39.57	-12.03	51.60	29.56	9.92	0.09	Average	LINE
4	0.2548	48.68	-12.92	61.60	38.67	9.92	0.09	QP	LINE
5	0.3003	35.85	-14.39	50.24	25.86	9.93	0.06	Average	LINE
6	0.3003	46.09	-14.15	60.24	36.10	9.93	0.06	QP	LINE
7	0.5074	31.15	-14.85	46.00	21.14	9.95	0.06	Average	LINE
8	0.5074	39.57	-16.43	56.00	29.56	9.95	0.06	QP	LINE
9	0.9331	29.23	-16.77	46.00	19.09	9.96	0.18	Average	LINE
10	0.9331	37.35	-18.65	56.00	27.21	9.96	0.18	QP	LINE
11	20.1625	21.97	-28.03	50.00	11.43	10.34	0.20	Average	LINE
12	20.1625	28.64	-31.36	60.00	18.10	10.34	0.20	QP	LINE

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

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Neutral
Operating Function	Unintentional - CRX		



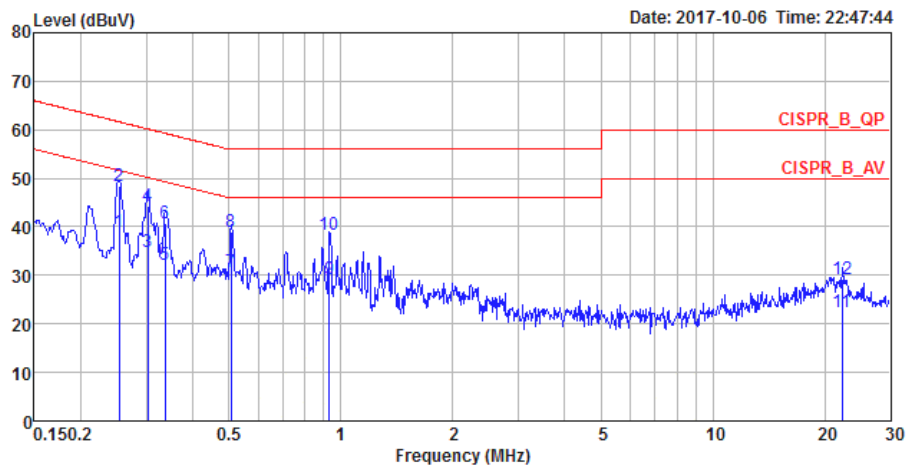
	Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase
	MHz	dBuV	Limit	Line	Level	Factor	Loss		
			dB	dBuV	dBuV	dB	dB		
1	0.2535	39.01	-12.63	51.64	28.84	10.08	0.09	Average	NEUTRAL
2	0.2535	48.50	-13.14	61.64	38.33	10.08	0.09	QP	NEUTRAL
3	0.3003	35.68	-14.56	50.24	25.47	10.15	0.06	Average	NEUTRAL
4	0.3003	45.43	-14.81	60.24	35.22	10.15	0.06	QP	NEUTRAL
5	0.3392	32.66	-16.56	49.22	22.43	10.19	0.04	Average	NEUTRAL
6	0.3392	40.06	-19.16	59.22	29.83	10.19	0.04	QP	NEUTRAL
7	0.5074	30.91	-15.09	46.00	20.63	10.22	0.06	Average	NEUTRAL
8	0.5074	39.52	-16.48	56.00	29.24	10.22	0.06	QP	NEUTRAL
9	0.9381	27.49	-18.51	46.00	17.24	10.07	0.18	Average	NEUTRAL
10	0.9381	34.61	-21.39	56.00	24.36	10.07	0.18	QP	NEUTRAL
11	27.8552	22.23	-27.77	50.00	11.43	10.53	0.27	Average	NEUTRAL
12	27.8552	29.20	-30.80	60.00	18.40	10.53	0.27	QP	NEUTRAL

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Line
Operating Function	Unintentional - CRX		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase
	MHz	dBuV	Limit	Line	Level	Factor	Loss		
			dB	dBuV	dBuV	dB	dB		
1	0.2535	38.82	-12.82	51.64	28.81	9.92	0.09	Average	LINE
2	0.2535	48.48	-13.16	61.64	38.47	9.92	0.09	QP	LINE
3	0.3035	34.78	-15.37	50.15	24.79	9.93	0.06	Average	LINE
4	0.3035	44.31	-15.84	60.15	34.32	9.93	0.06	QP	LINE
5	0.3374	32.27	-17.00	49.27	22.29	9.94	0.04	Average	LINE
6	0.3374	40.80	-18.47	59.27	30.82	9.94	0.04	QP	LINE
7	0.5074	30.72	-15.28	46.00	20.71	9.95	0.06	Average	LINE
8	0.5074	39.05	-16.95	56.00	29.04	9.95	0.06	QP	LINE
9	0.9331	29.22	-16.78	46.00	19.08	9.96	0.18	Average	LINE
10	0.9331	38.27	-17.73	56.00	28.13	9.96	0.18	QP	LINE
11	22.2979	22.53	-27.47	50.00	11.93	10.38	0.22	Average	LINE
12	22.2979	29.31	-30.69	60.00	18.71	10.38	0.22	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.)

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	9.575M	15.442M	15M4G1D	7.1M	12.994M
802.11g_Nss1,(6Mbps)_2TX	16.325M	29.91M	29M9D1D	15.9M	16.392M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.575M	30.035M	30M0D1D	17.55M	17.591M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.25M	35.982M	36M0D1D	33.4M	35.932M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	17.575M	24.188M	24M2D1D	16.725M	17.541M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	36.3M	36.182M	36M2D1D	28.8M	35.582M

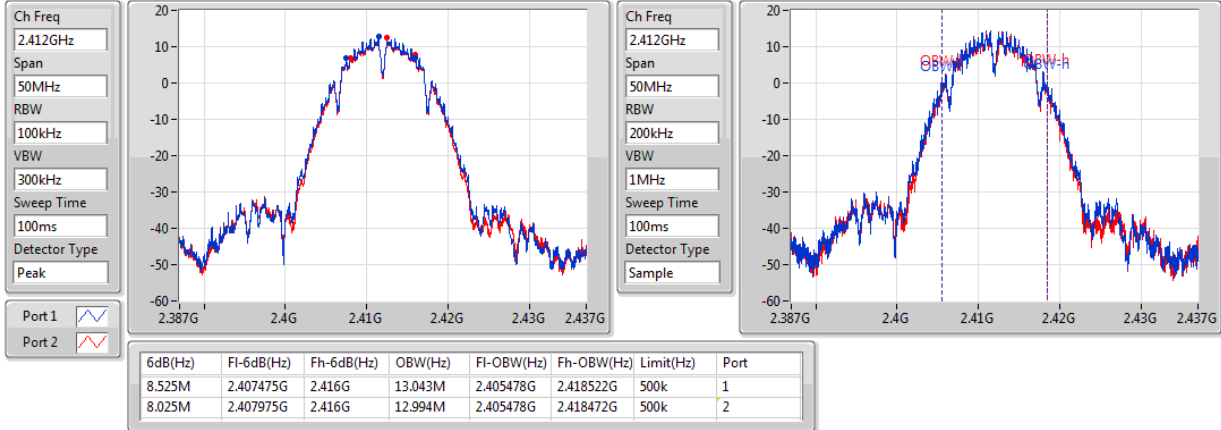
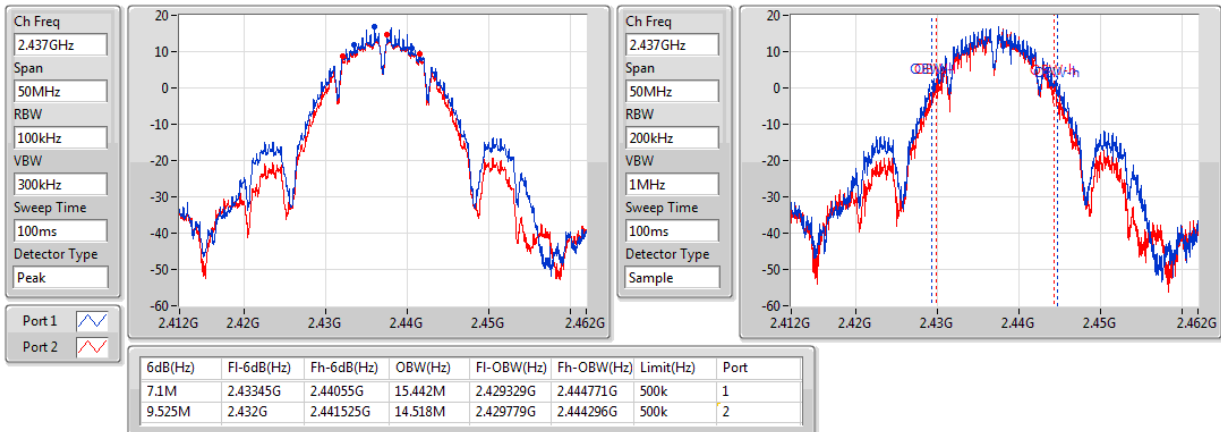
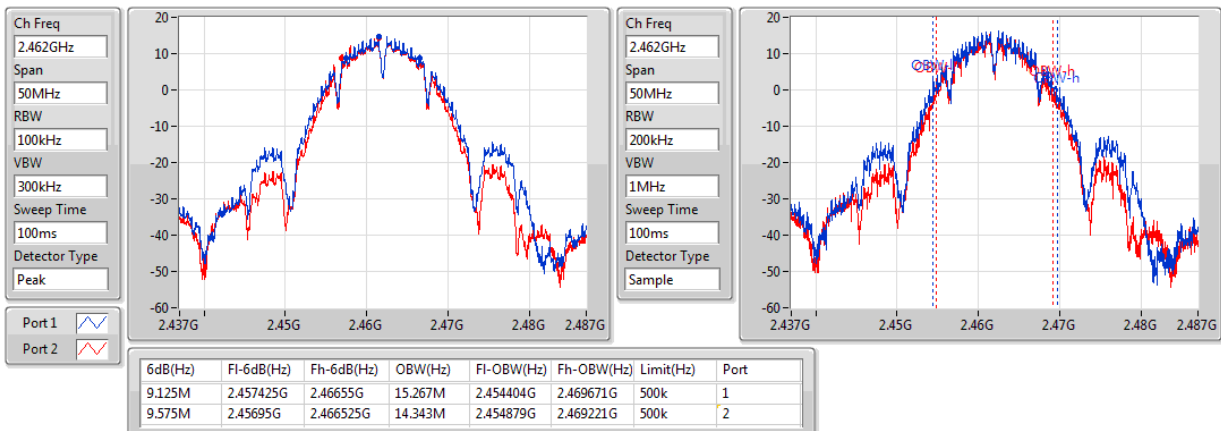
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

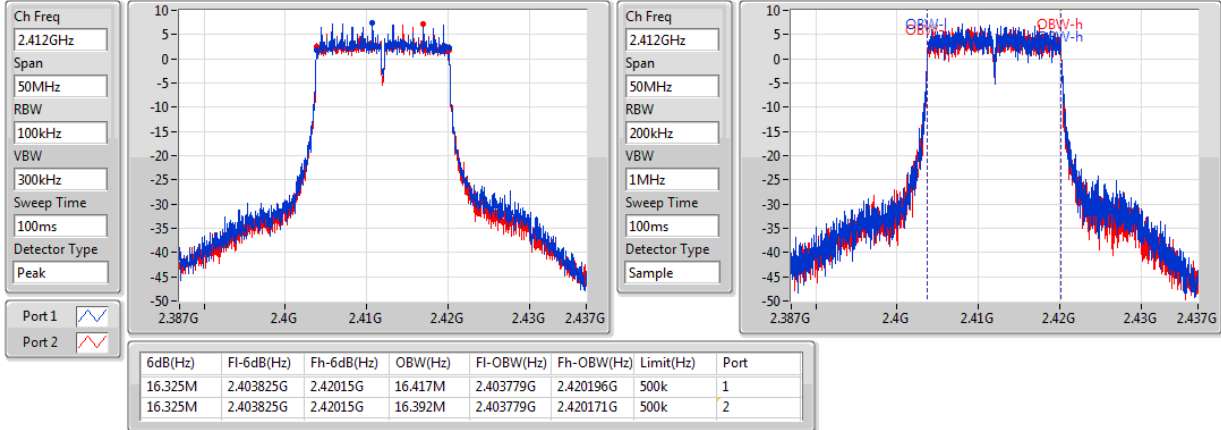
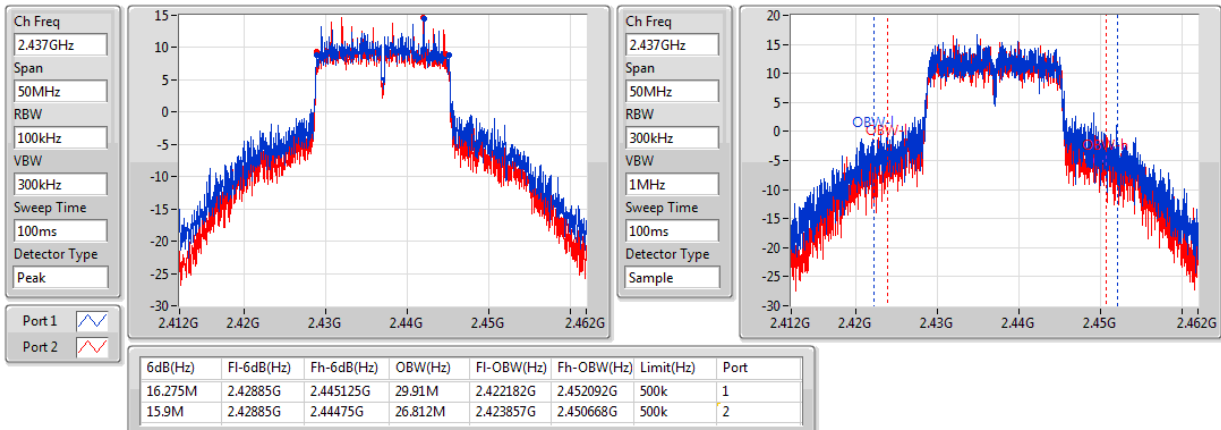
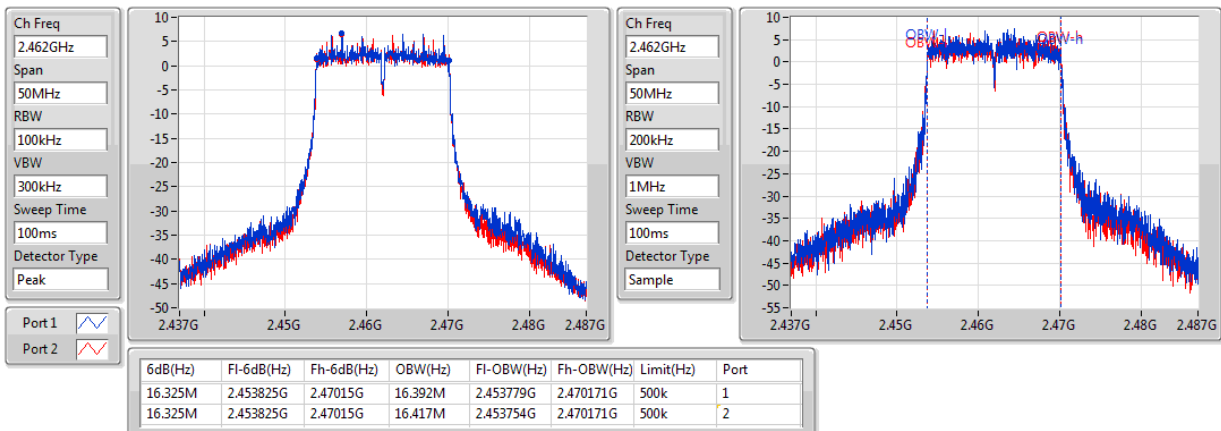
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

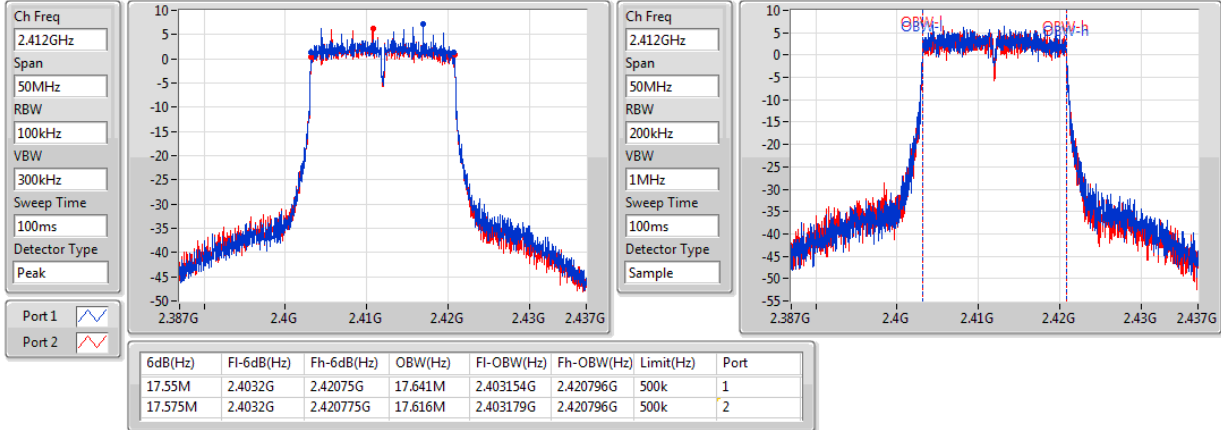
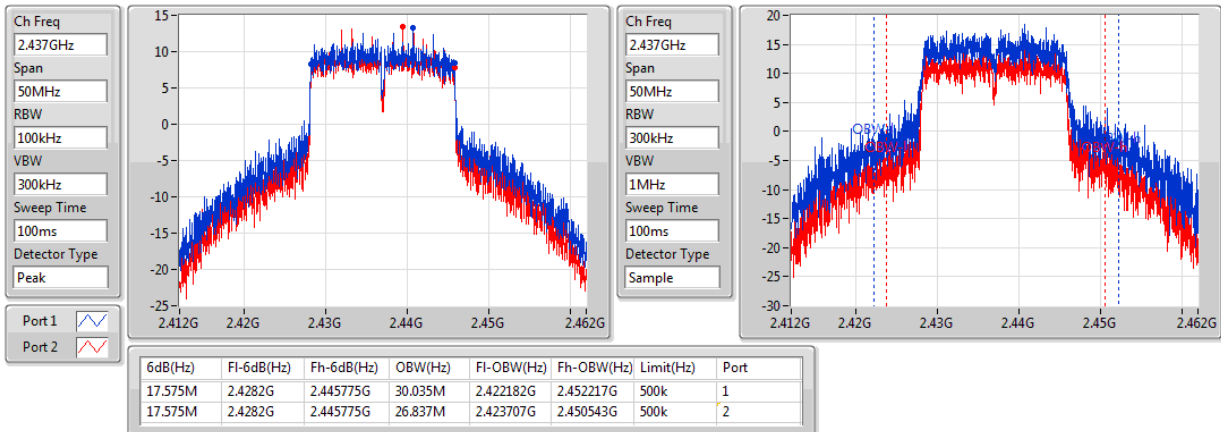
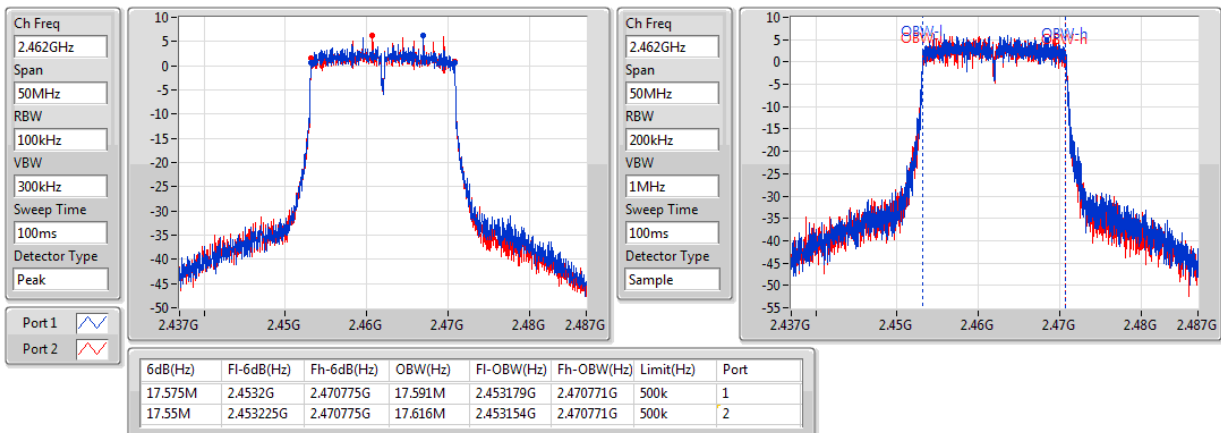
Result

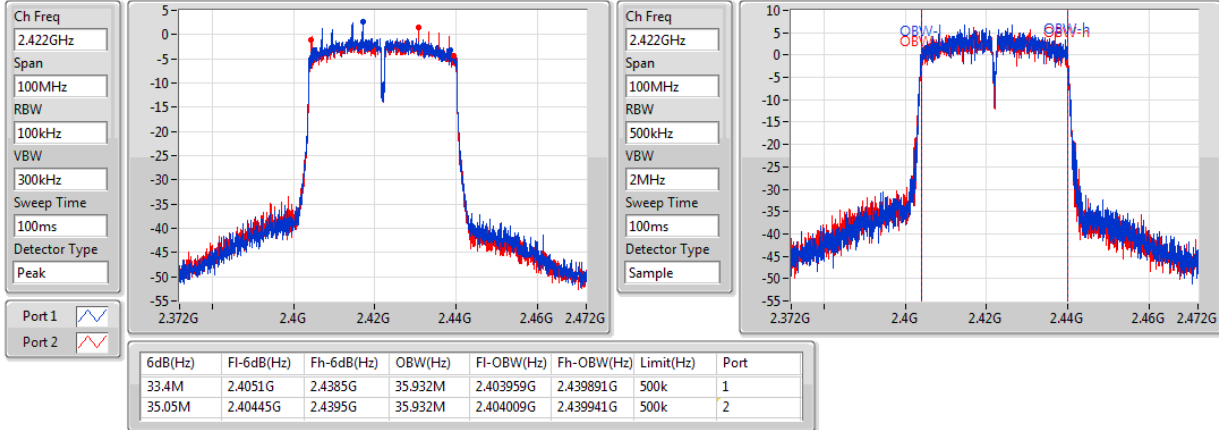
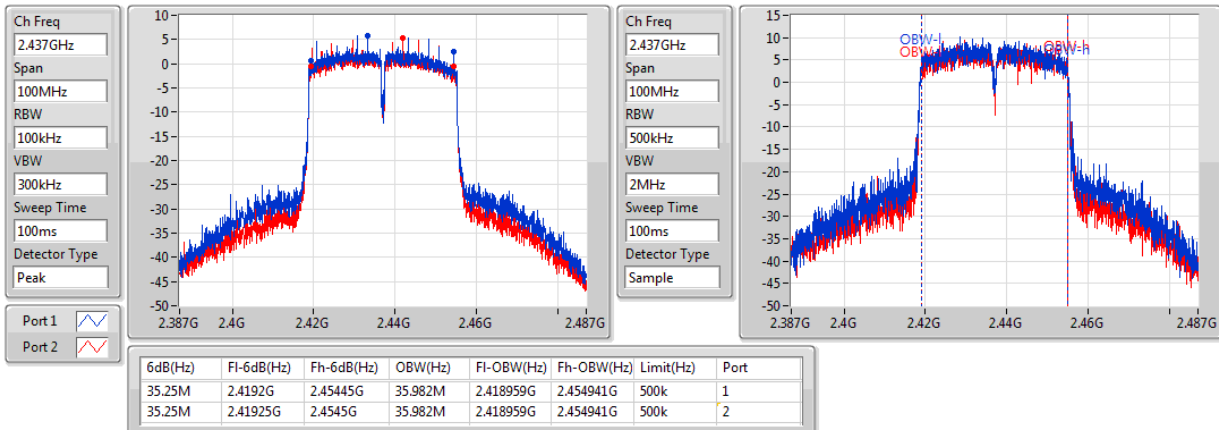
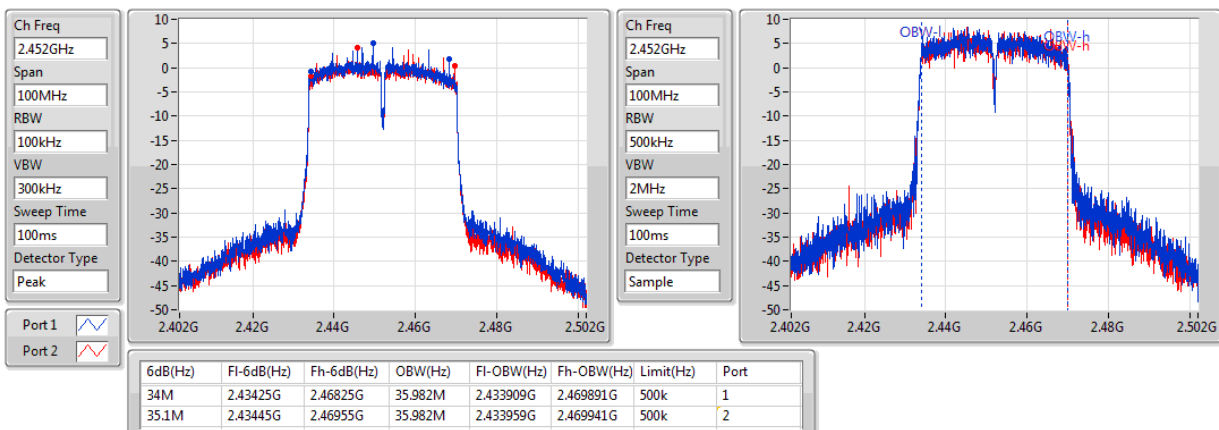
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.525M	13.043M	8.025M	12.994M
2437MHz	Pass	500k	7.1M	15.442M	9.525M	14.518M
2462MHz	Pass	500k	9.125M	15.267M	9.575M	14.343M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.417M	16.325M	16.392M
2437MHz	Pass	500k	16.275M	29.91M	15.9M	26.812M
2462MHz	Pass	500k	16.325M	16.392M	16.325M	16.417M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.55M	17.641M	17.575M	17.616M
2437MHz	Pass	500k	17.575M	30.035M	17.575M	26.837M
2462MHz	Pass	500k	17.575M	17.591M	17.55M	17.616M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	33.4M	35.932M	35.05M	35.932M
2437MHz	Pass	500k	35.25M	35.982M	35.25M	35.982M
2452MHz	Pass	500k	34M	35.982M	35.1M	35.982M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.275M	17.641M	16.725M	17.541M
2437MHz	Pass	500k	17.575M	24.188M	17.35M	21.964M
2462MHz	Pass	500k	17.525M	17.591M	17.375M	17.641M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.9M	36.182M	35.05M	35.582M
2437MHz	Pass	500k	34.4M	35.982M	28.8M	35.832M
2452MHz	Pass	500k	28.8M	35.982M	36.3M	35.982M

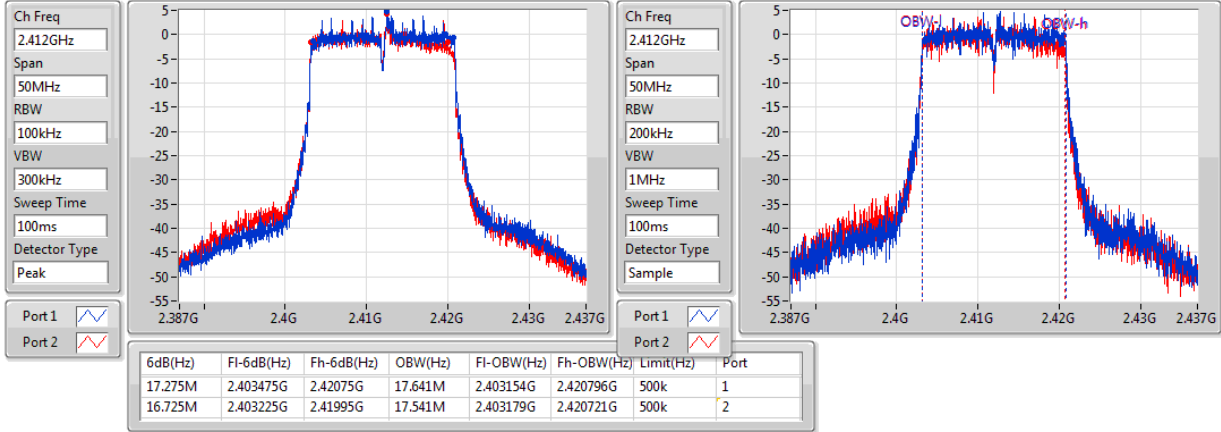
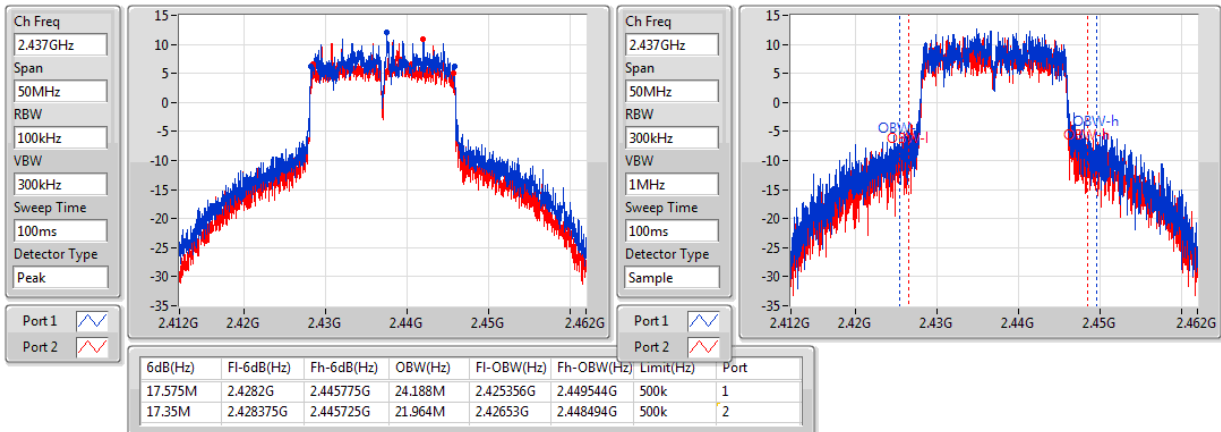
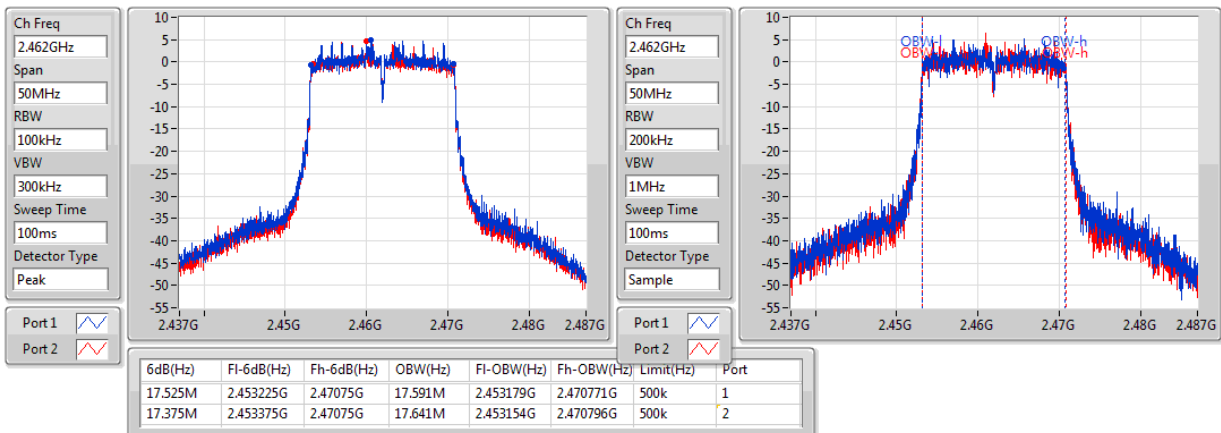
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

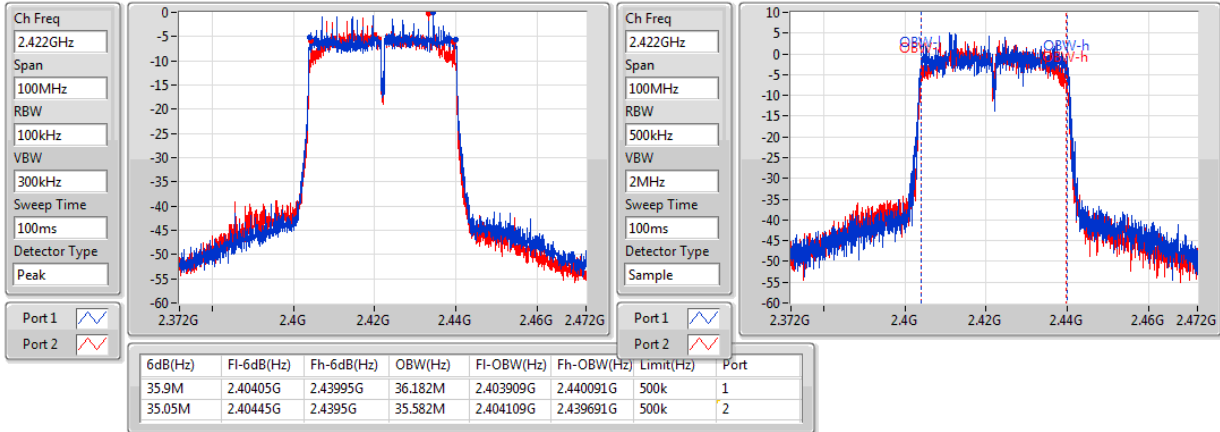
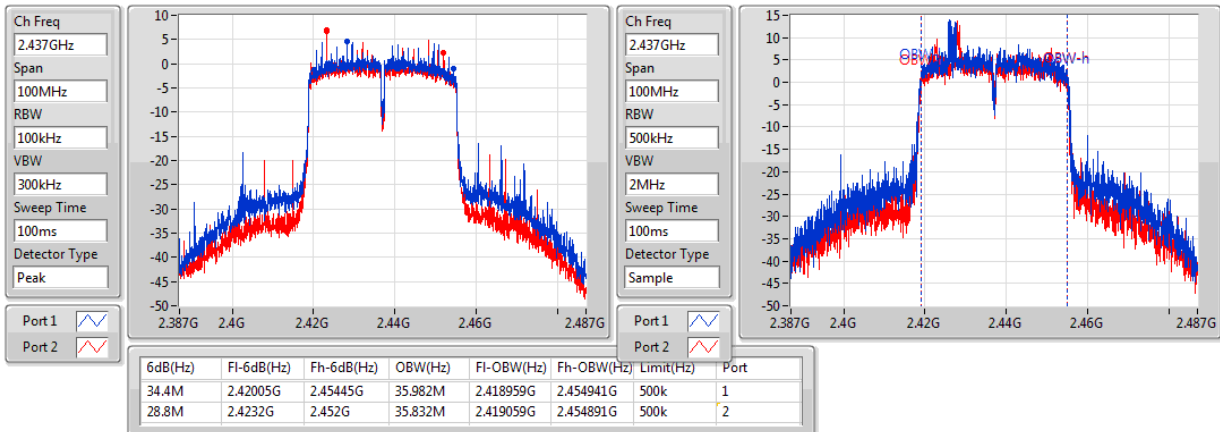
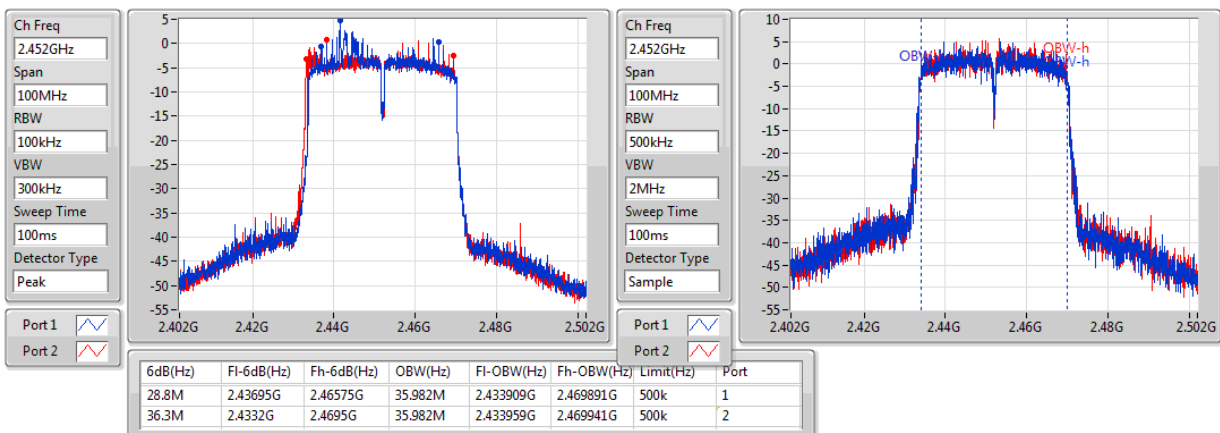
802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz


802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
2412MHz

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
2437MHz

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
2462MHz


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
2422MHz

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
2437MHz

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
2452MHz


802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
2412MHz

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
2462MHz


802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
2422MHz

802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
2452MHz


Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	25.97	0.39537
802.11g_Nss1,(6Mbps)_2TX	26.20	0.41687
802.11ac VHT20_Nss1,(MCS0)_2TX	26.24	0.42073
802.11ac VHT40_Nss1,(MCS0)_2TX	21.11	0.12912
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	25.65	0.36728
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	22.16	0.16444

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.70	20.90	20.55	23.74	30.00
2437MHz	Pass	4.70	23.18	22.73	25.97	30.00
2462MHz	Pass	4.70	23.06	22.51	25.80	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.70	17.06	16.76	19.92	30.00
2437MHz	Pass	4.70	23.38	22.99	26.20	30.00
2462MHz	Pass	4.70	16.48	16.05	19.28	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.70	16.63	16.28	19.47	30.00
2437MHz	Pass	4.70	23.44	23.01	26.24	30.00
2462MHz	Pass	4.70	16.44	16.09	19.28	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.70	14.80	14.43	17.63	30.00
2437MHz	Pass	4.70	18.24	17.95	21.11	30.00
2452MHz	Pass	4.70	16.99	16.68	19.85	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.71	16.40	16.32	19.37	28.29
2437MHz	Pass	7.71	22.71	22.56	25.65	28.29
2462MHz	Pass	7.71	17.25	17.04	20.16	28.29
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.71	13.98	13.86	16.93	28.29
2437MHz	Pass	7.71	19.25	19.04	22.16	28.29
2452MHz	Pass	7.71	15.70	15.79	18.76	28.29

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	4.67
802.11g_Nss1,(6Mbps)_2TX	-1.04
802.11ac VHT20_Nss1,(MCS0)_2TX	-0.18
802.11ac VHT40_Nss1,(MCS0)_2TX	-7.73
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-1.51
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-4.43

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.71	4.67	-3.64	4.67	6.29
2437MHz	Pass	7.71	-0.34	-0.73	0.05	6.29
2462MHz	Pass	7.71	-0.19	-2.67	0.12	6.29
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.71	-9.72	-8.79	-7.29	6.29
2437MHz	Pass	7.71	-2.99	-2.84	-1.04	6.29
2462MHz	Pass	7.71	-9.84	-10.73	-8.31	6.29
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.71	-9.47	-8.87	-7.10	6.29
2437MHz	Pass	7.71	-1.65	-2.51	-0.18	6.29
2462MHz	Pass	7.71	-9.62	-8.94	-7.76	6.29
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.71	-12.41	-14.28	-11.09	6.29
2437MHz	Pass	7.71	-10.60	-9.76	-7.73	6.29
2452MHz	Pass	7.71	-11.21	-10.28	-9.27	6.29
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.71	-9.52	-9.65	-8.56	6.29
2437MHz	Pass	7.71	-3.87	-2.42	-1.51	6.29
2462MHz	Pass	7.71	-11.02	-9.16	-7.79	6.29
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.71	-11.81	-10.29	-10.17	6.29
2437MHz	Pass	7.71	-4.64	-4.95	-4.43	6.29
2452MHz	Pass	7.71	-11.58	-9.91	-9.31	6.29

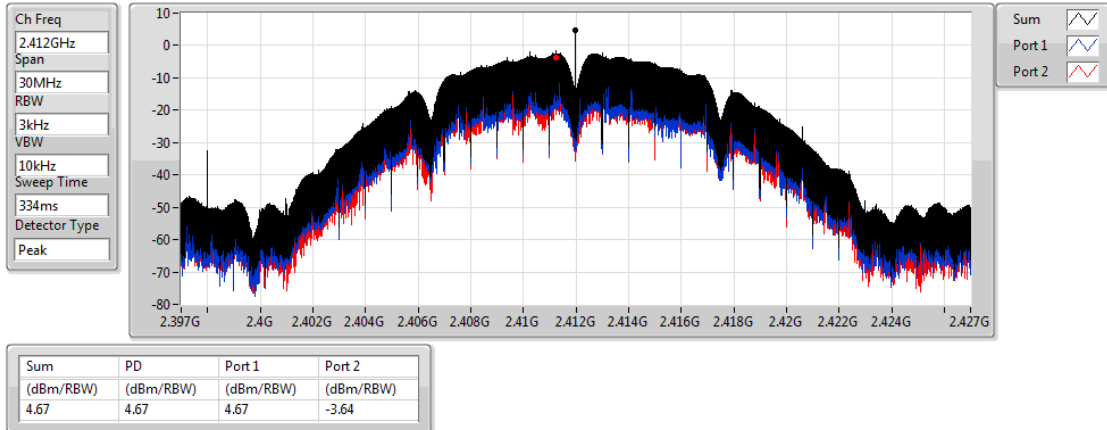
DG = Directional Gain; RBW=3kHz;

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

802.11b_Nss1,(1Mbps)_2TX

PSD

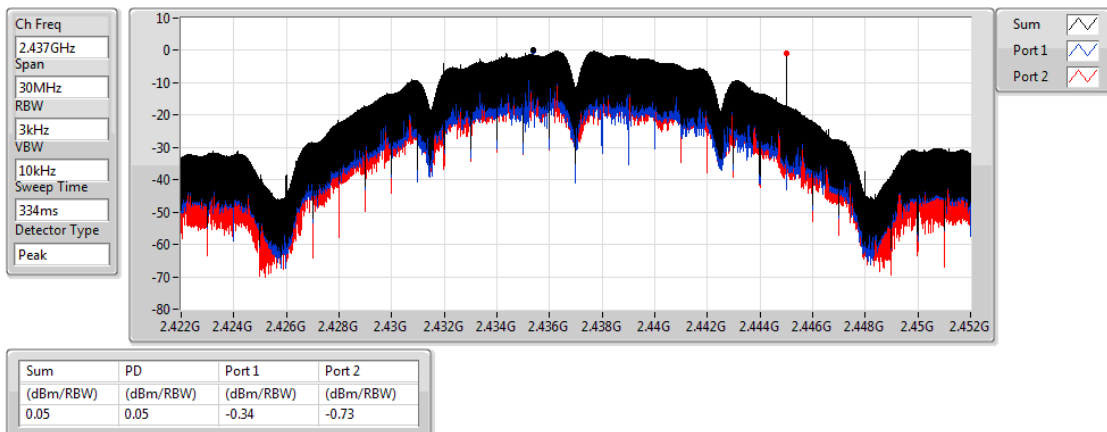
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802.11b_Nss1,(1Mbps)_2TX

PSD

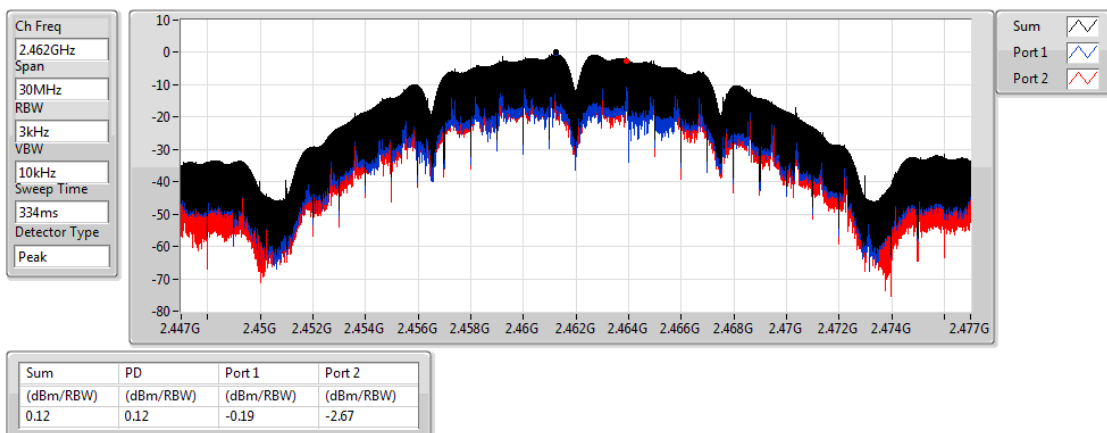
2437MHz



802.11b_Nss1,(1Mbps)_2TX

PSD

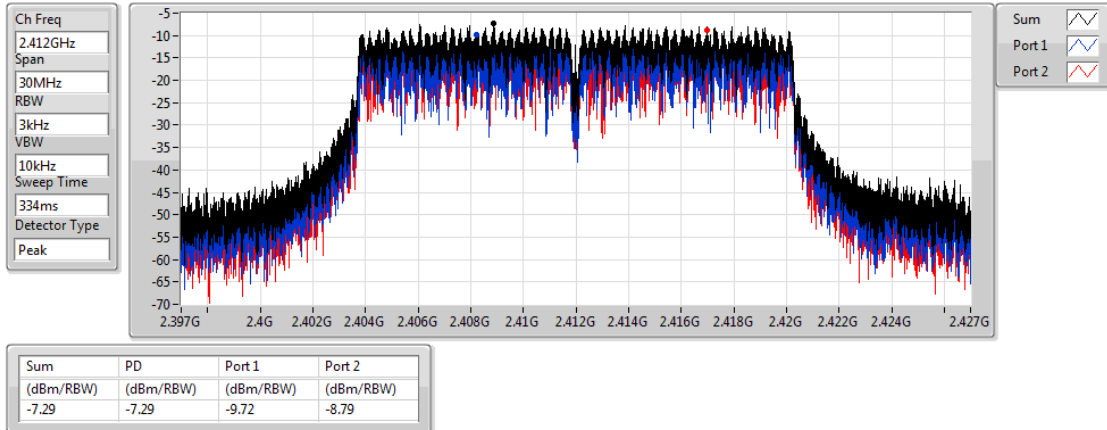
2462MHz



802.11g_Nss1,(6Mbps)_2TX

PSD

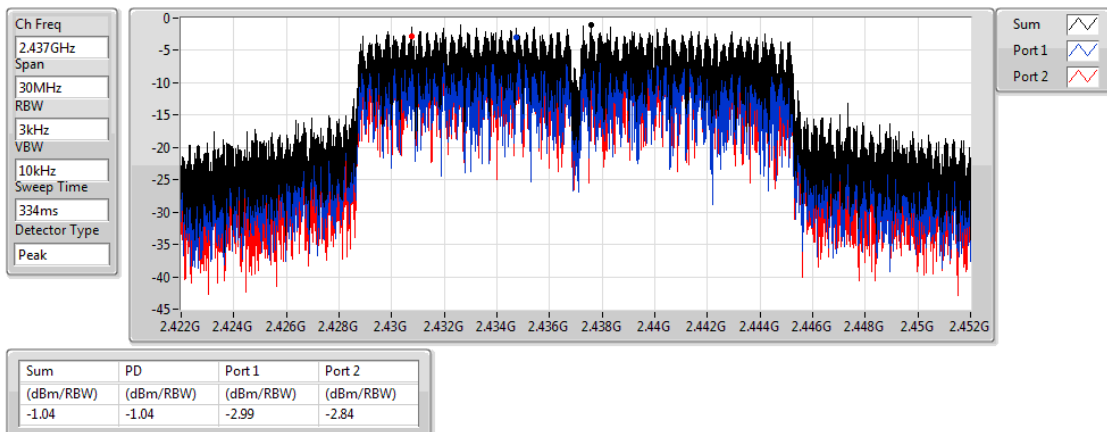
2412MHz



802.11g_Nss1,(6Mbps)_2TX

PSD

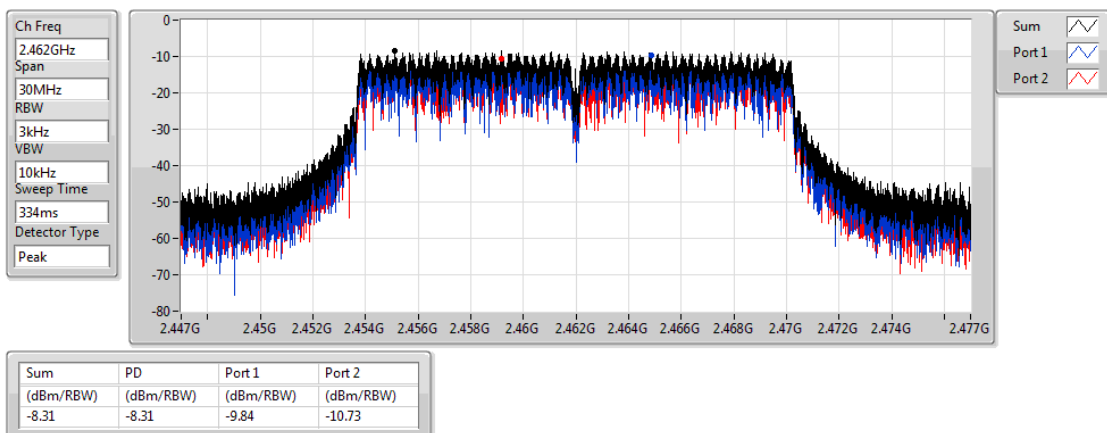
2437MHz



802.11g_Nss1,(6Mbps)_2TX

PSD

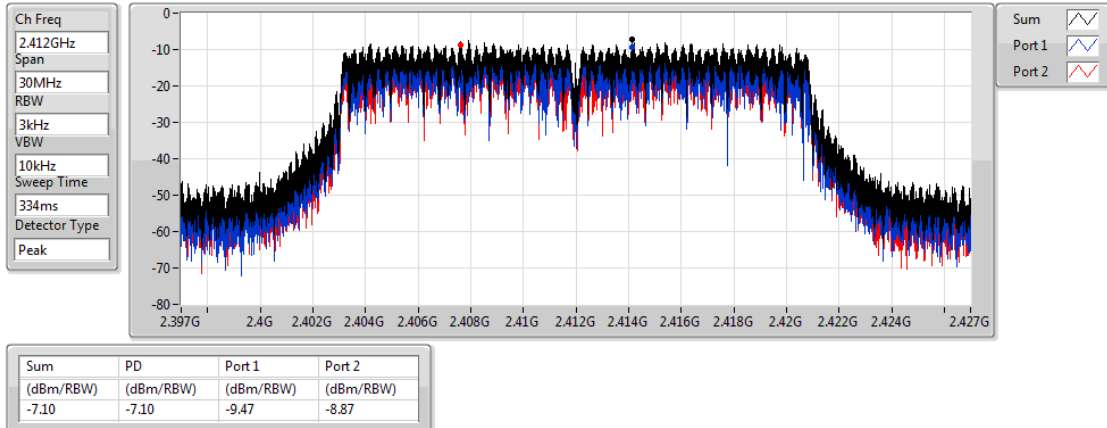
2462MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

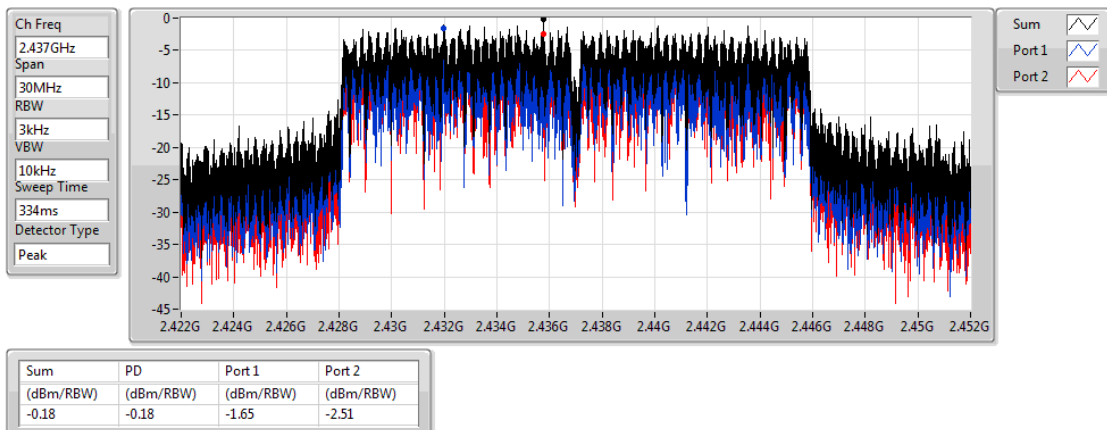
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802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

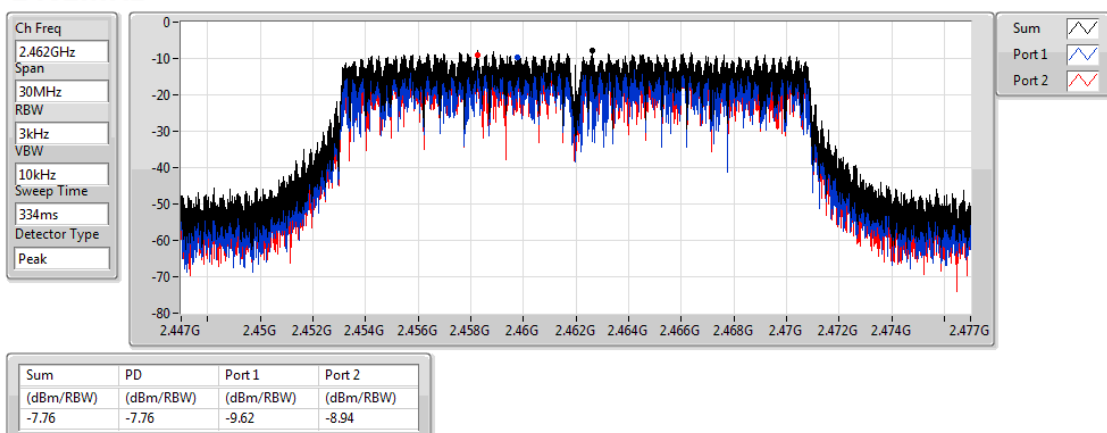
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802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

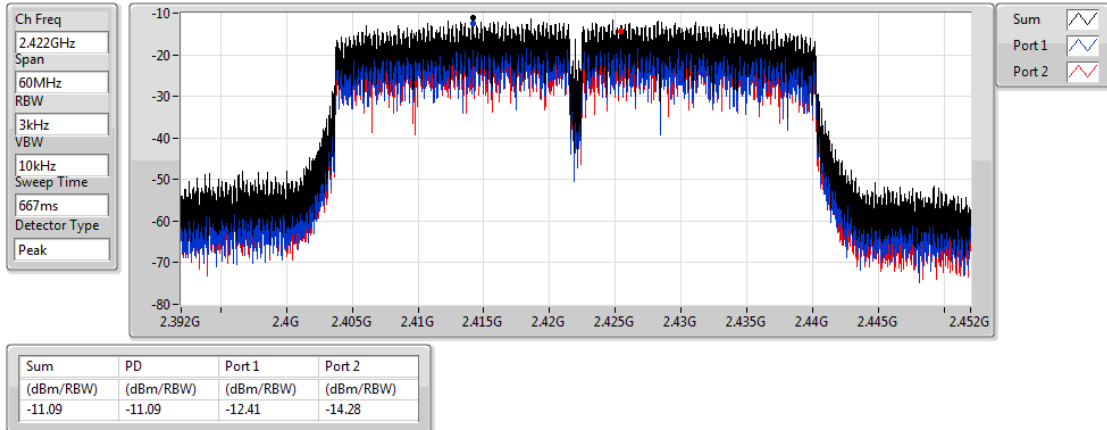
2462MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

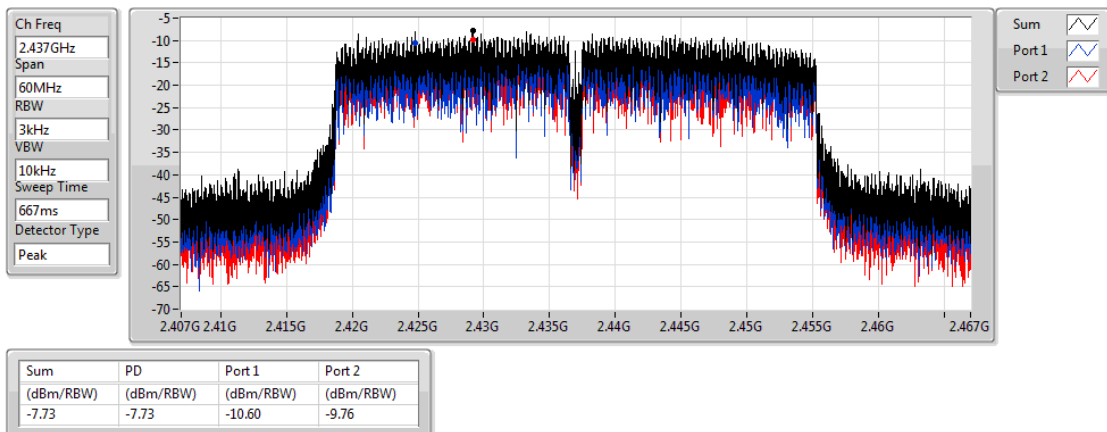
2422MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

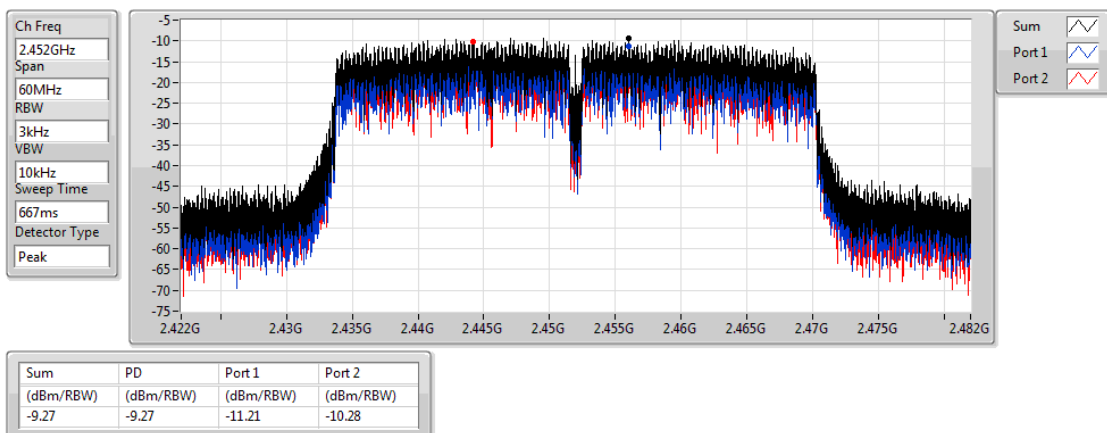
2437MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

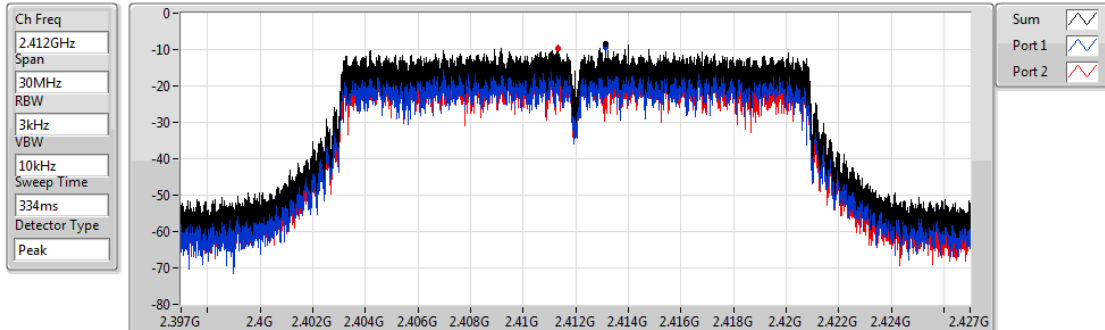
2452MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

2412MHz

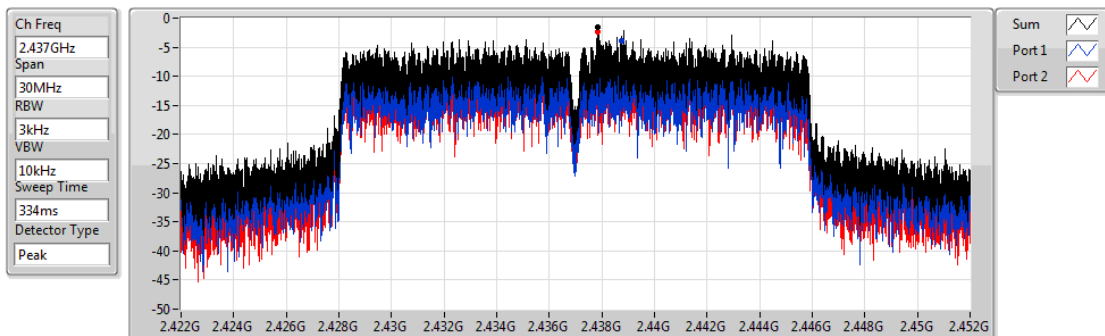


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.56	-8.56	-9.52	-9.65

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

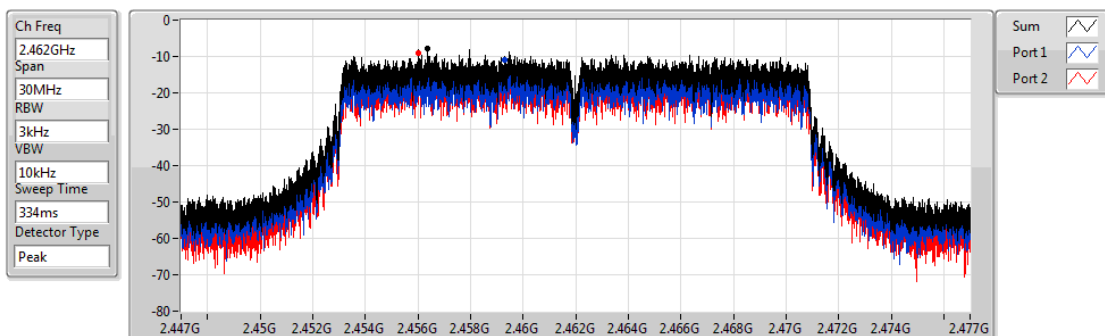


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.51	-1.51	-3.87	-2.42

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

2462MHz

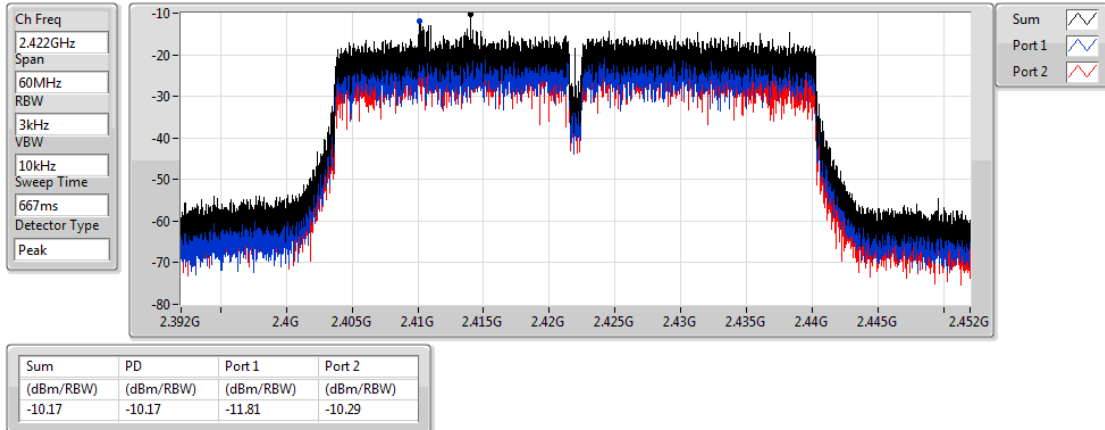


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.79	-7.79	-11.02	-9.16

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

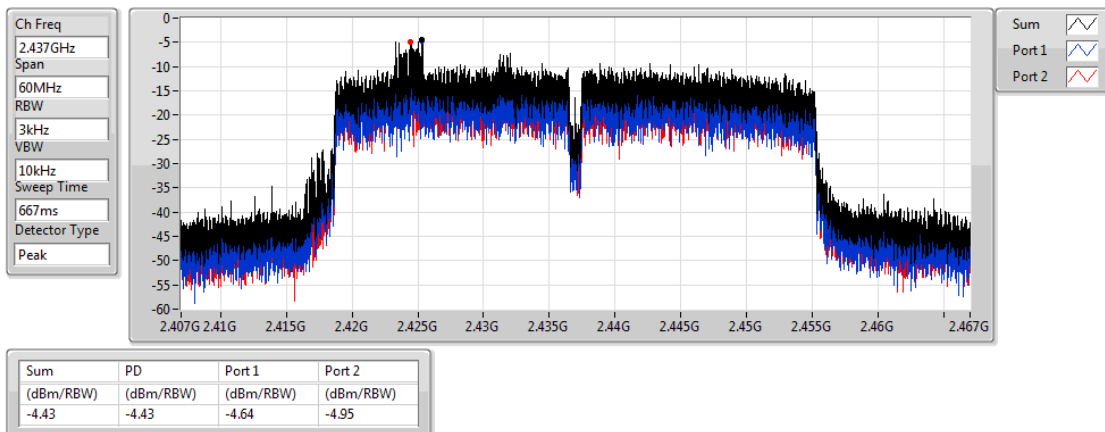
2422MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

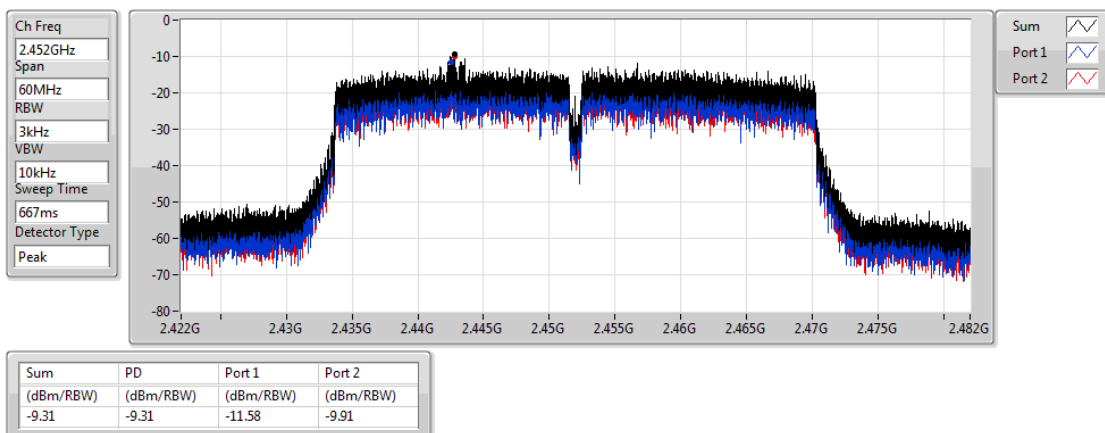
2437MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

2452MHz



**Summary**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	2.440748G	5.29	-24.71	1.62613G	-45.98	2.39984G	-30.61	2.48382G	-40.11	3.247813G	-30.31	1

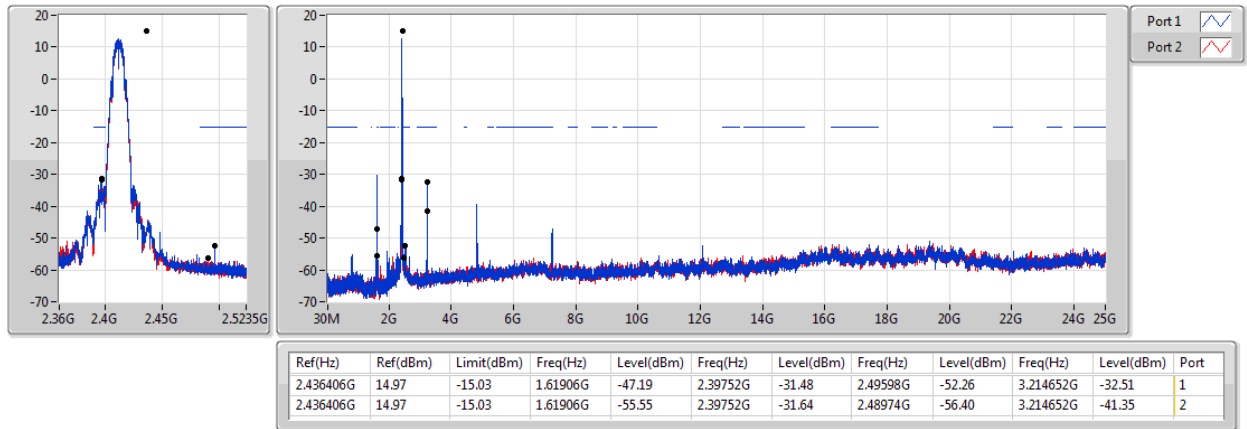
Result

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_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.436406G	14.97	-15.03	1.61906G	-47.19	2.39752G	-31.48	2.49598G	-52.26	3.214652G	-32.51	1
2412MHz	Pass	2.436406G	14.97	-15.03	1.61906G	-55.55	2.39752G	-31.64	2.48974G	-56.40	3.214652G	-41.35	2
2437MHz	Pass	2.436406G	14.97	-15.03	1.624885G	-30.03	2.39952G	-39.83	2.4855G	-44.99	3.248367G	-34.67	1
2437MHz	Pass	2.436406G	14.97	-15.03	1.624885G	-35.85	2.39952G	-43.07	2.48374G	-50.54	3.248367G	-39.73	2
2462MHz	Pass	2.436406G	14.97	-15.03	1.641195G	-31.03	2.39968G	-54.76	2.48846G	-35.02	3.282082G	-37.73	1
2462MHz	Pass	2.436406G	14.97	-15.03	1.641195G	-36.50	2.39944G	-56.75	2.48846G	-38.71	3.282082G	-42.15	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.432064G	14.87	-15.13	1.617895G	-47.59	2.39984G	-29.36	2.49598G	-50.60	3.214652G	-30.17	1
2412MHz	Pass	2.432064G	14.87	-15.13	2.111855G	-54.94	2.39704G	-30.46	2.49598G	-52.76	3.214652G	-39.18	2
2437MHz	Pass	2.432064G	14.87	-15.13	1.620225G	-44.24	2.39952G	-29.13	2.4843G	-38.78	3.248367G	-34.10	1
2437MHz	Pass	2.432064G	14.87	-15.13	1.62605G	-47.24	2.39912G	-34.20	2.48358G	-42.03	3.248367G	-38.21	2
2462MHz	Pass	2.432064G	14.87	-15.13	1.641195G	-44.28	2.39992G	-50.04	2.48382G	-42.16	3.282082G	-32.98	1
2462MHz	Pass	2.432064G	14.87	-15.13	1.64469G	-52.34	2.39568G	-55.92	2.4839G	-41.76	3.282082G	-40.03	2
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.432064G	14.32	-15.68	1.61906G	-46.10	2.39944G	-32.22	2.49598G	-49.86	3.214652G	-29.17	1
2412MHz	Pass	2.432064G	14.32	-15.68	1.61673G	-55.63	2.398G	-31.38	2.49598G	-55.30	3.214652G	-40.19	2
2437MHz	Pass	2.432064G	14.32	-15.68	1.62372G	-41.66	2.39984G	-28.08	2.48438G	-39.04	3.248367G	-32.83	1
2437MHz	Pass	2.432064G	14.32	-15.68	1.62372G	-45.63	2.39952G	-32.38	2.48486G	-41.31	3.248367G	-37.58	2
2462MHz	Pass	2.432064G	14.32	-15.68	1.64702G	-44.08	2.39992G	-50.92	2.48358G	-40.11	3.282082G	-32.27	1
2462MHz	Pass	2.432064G	14.32	-15.68	1.638865G	-52.02	2.3968G	-55.13	2.48446G	-40.86	3.282082G	-39.71	2
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.440748G	5.29	-24.71	1.618115G	-51.59	2.39456G	-36.34	2.56014G	-51.09	3.228181G	-31.79	1
2422MHz	Pass	2.440748G	5.29	-24.71	1.618115G	-58.60	2.39872G	-35.60	2.4851G	-54.61	3.228181G	-40.77	2
2437MHz	Pass	2.440748G	5.29	-24.71	1.62613G	-45.98	2.39984G	-30.61	2.48382G	-40.11	3.247813G	-30.31	1
2437MHz	Pass	2.440748G	5.29	-24.71	1.61926G	-50.36	2.39984G	-35.04	2.48446G	-41.41	3.247813G	-35.51	2
2452MHz	Pass	2.440748G	5.29	-24.71	1.629565G	-45.13	2.3992G	-43.87	2.48398G	-34.57	3.267445G	-31.52	1
2452MHz	Pass	2.440748G	5.29	-24.71	1.62613G	-51.34	2.39952G	-42.75	2.4843G	-35.71	3.267445G	-36.79	2
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.432064G	10.82	-19.18	1.61673G	-51.43	2.39704G	-37.65	2.49598G	-53.63	3.214652G	-33.83	1
2412MHz	Pass	2.432064G	10.82	-19.18	2.11302G	-58.16	2.39984G	-34.92	2.49662G	-58.43	3.214652G	-43.11	2
2437MHz	Pass	2.432064G	10.82	-19.18	1.62372G	-42.63	2.39976G	-38.46	2.48358G	-45.51	3.248367G	-34.80	1
2437MHz	Pass	2.432064G	10.82	-19.18	1.622555G	-50.18	2.39944G	-38.92	2.4839G	-46.37	3.248367G	-39.81	2
2462MHz	Pass	2.432064G	10.82	-19.18	1.643525G	-46.10	2.39992G	-52.68	2.48382G	-43.17	3.282082G	-35.32	1
2462MHz	Pass	2.432064G	10.82	-19.18	1.643525G	-53.06	2.39784G	-54.47	2.48446G	-44.17	3.282082G	-40.51	2
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.429559G	10.91	-19.09	1.61926G	-52.26	2.3984G	-39.74	2.56014G	-53.92	3.228181G	-34.21	1
2422MHz	Pass	2.429559G	10.91	-19.09	2.30168G	-59.50	2.39824G	-37.60	2.48446G	-56.26	3.228181G	-44.14	2
2437MHz	Pass	2.429559G	10.91	-19.09	1.62155G	-47.17	2.3992G	-19.50	2.48382G	-38.82	3.247813G	-32.80	1
2437MHz	Pass	2.429559G	10.91	-19.09	1.62155G	-46.17	2.3992G	-30.40	2.4843G	-36.21	3.247813G	-32.77	2
2452MHz	Pass	2.429559G	10.91	-19.09	1.62155G	-54.97	2.39584G	-47.90	2.48446G	-41.83	3.267445G	-39.77	1
2452MHz	Pass	2.429559G	10.91	-19.09	1.63071G	-53.69	2.39952G	-47.34	2.48446G	-42.72	3.267445G	-39.51	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

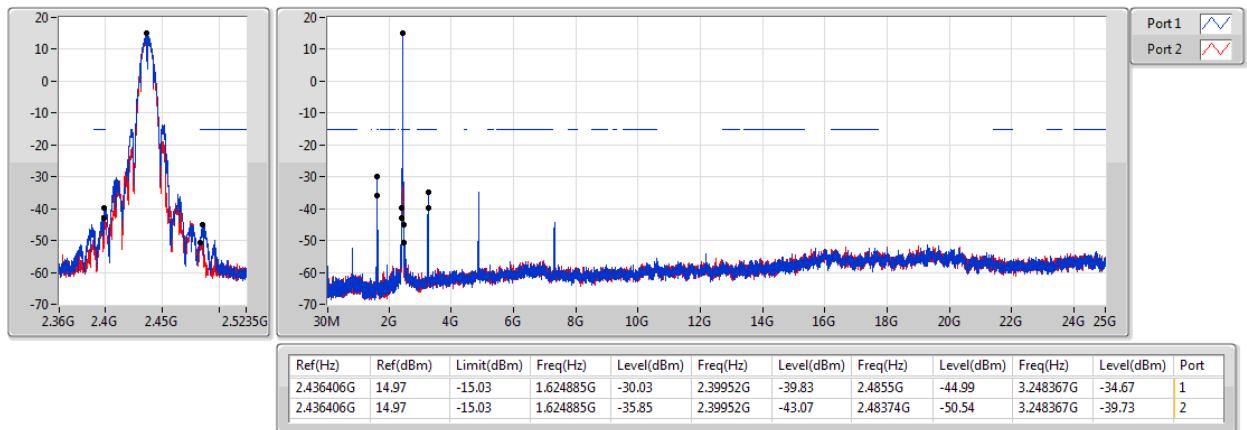
2412MHz



802.11b_Nss1,(1Mbps)_2TX

CSE NdB

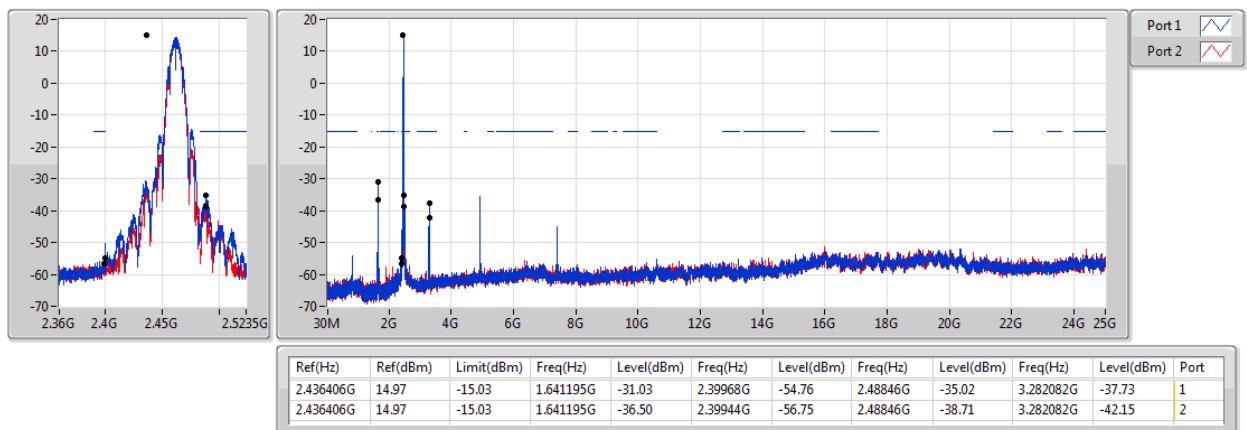
2437MHz



802.11b_Nss1,(1Mbps)_2TX

CSE NdB

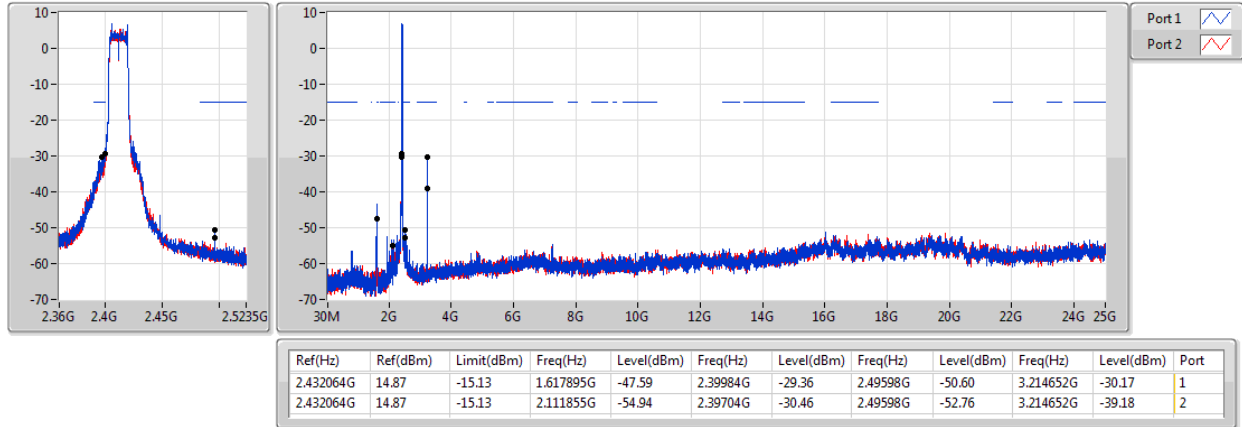
2462MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

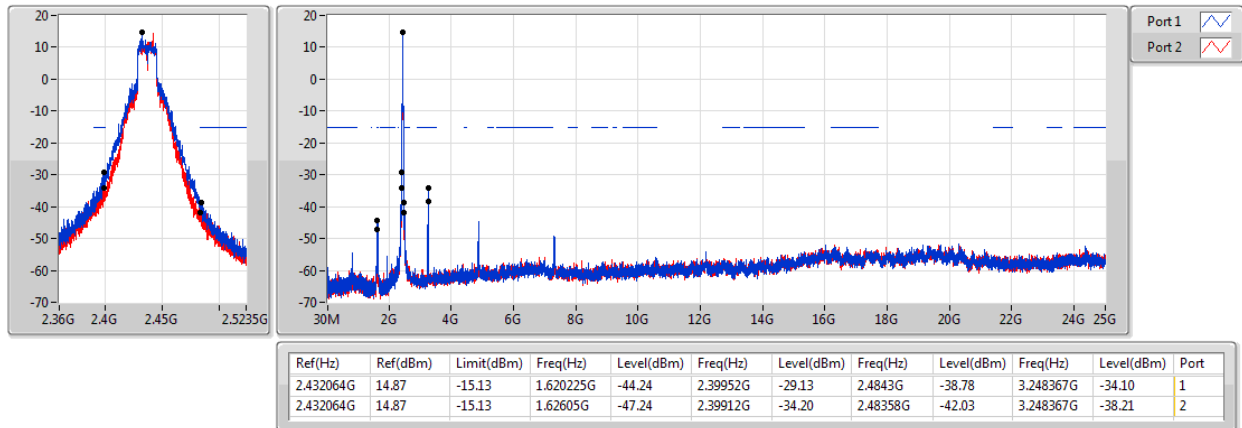
2412MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

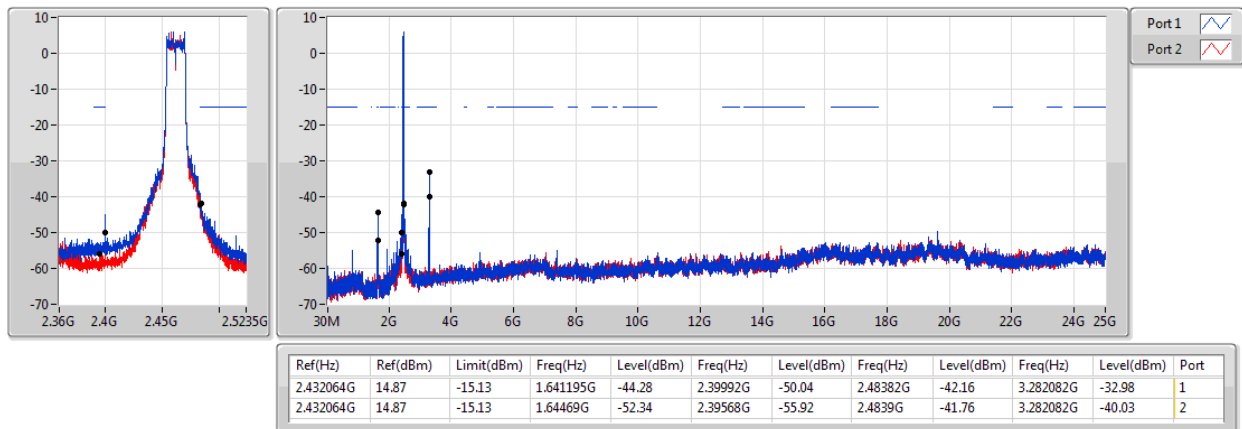
2437MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

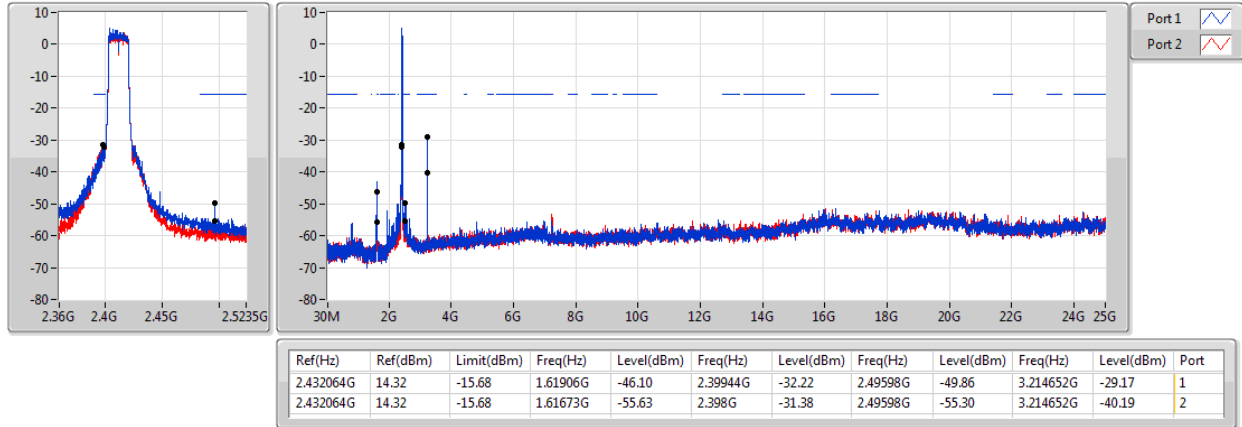
2462MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

CSE NdB

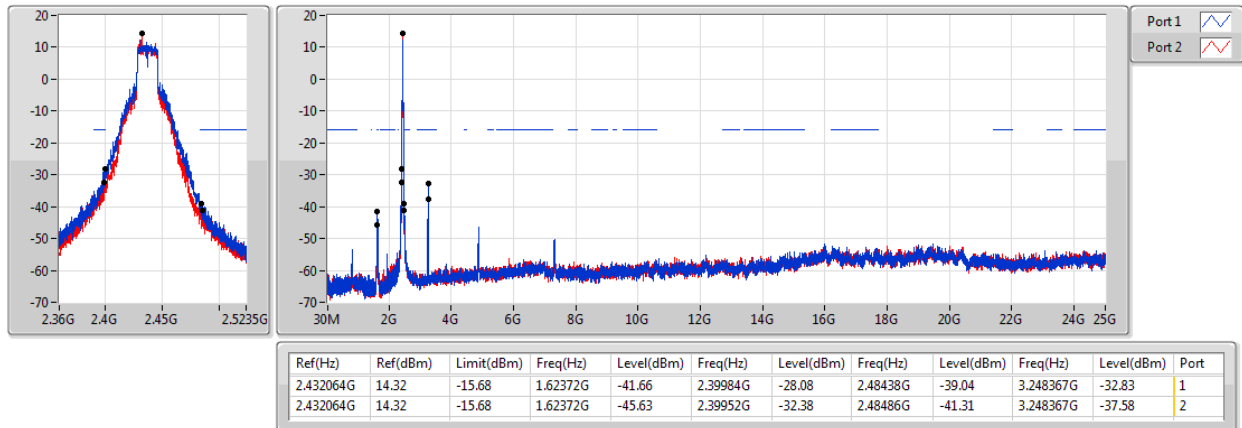
2412MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

CSE NdB

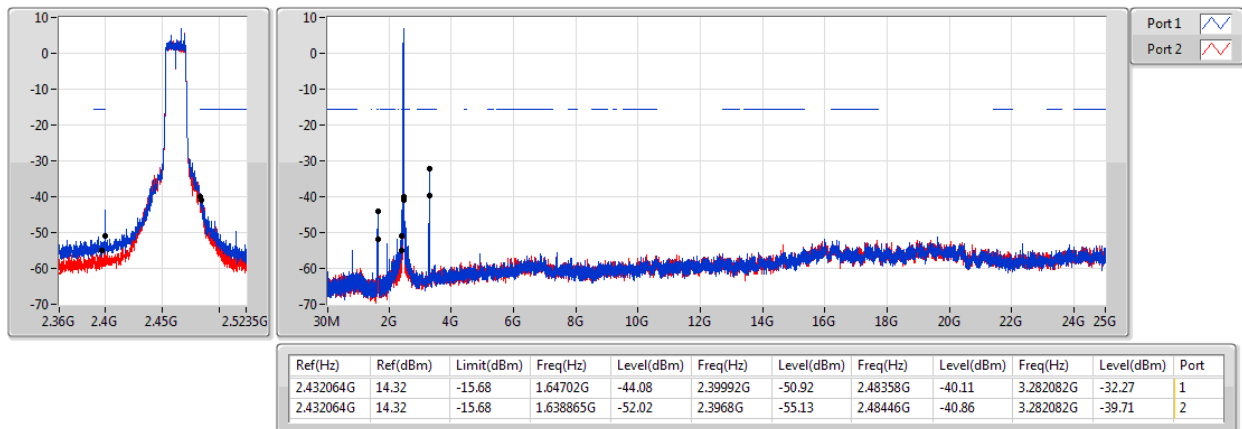
2437MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

CSE NdB

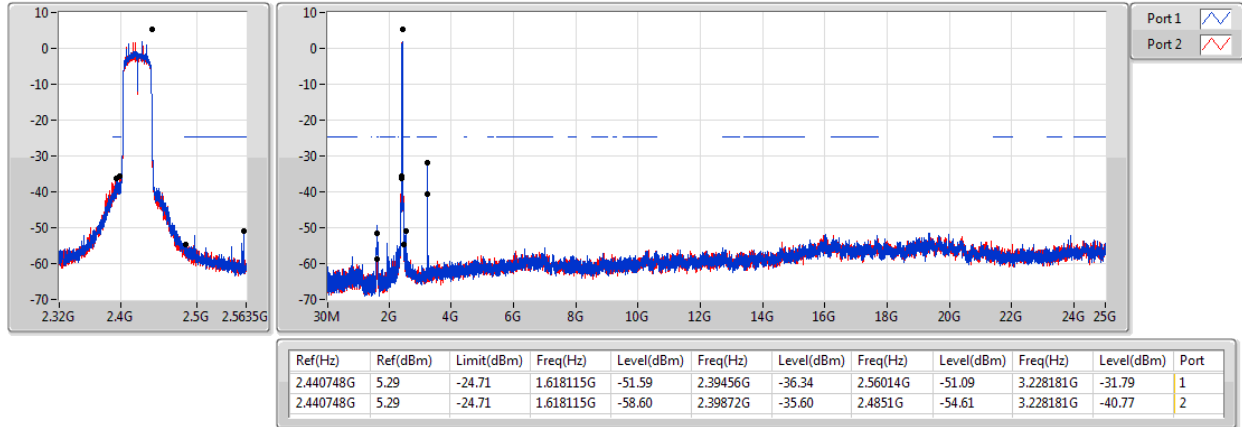
2462MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

CSE NdB

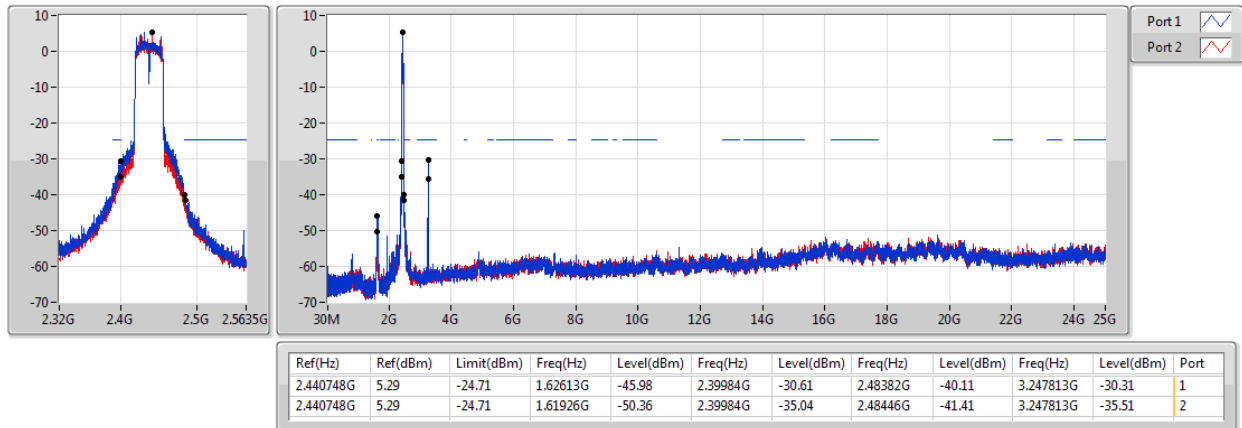
2422MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

CSE NdB

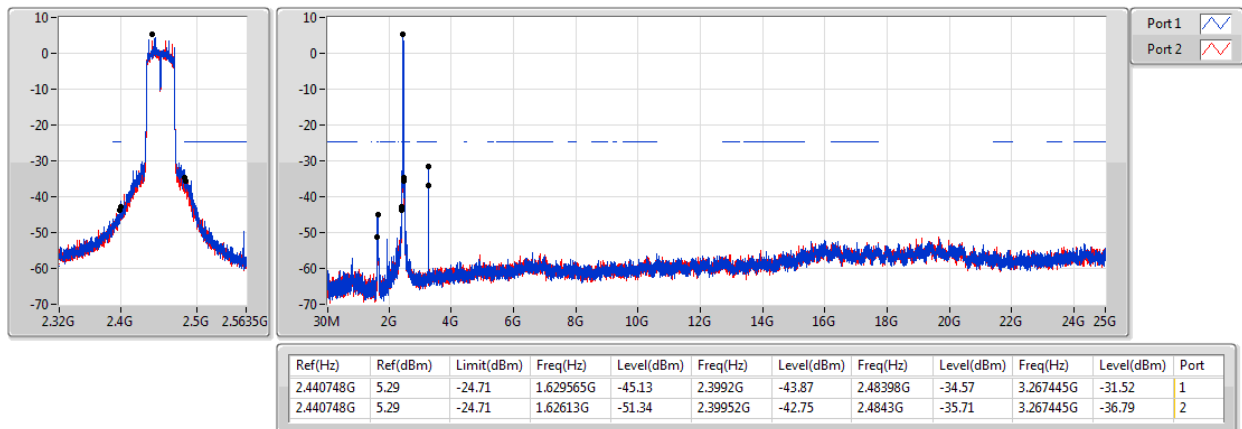
2437MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

CSE NdB

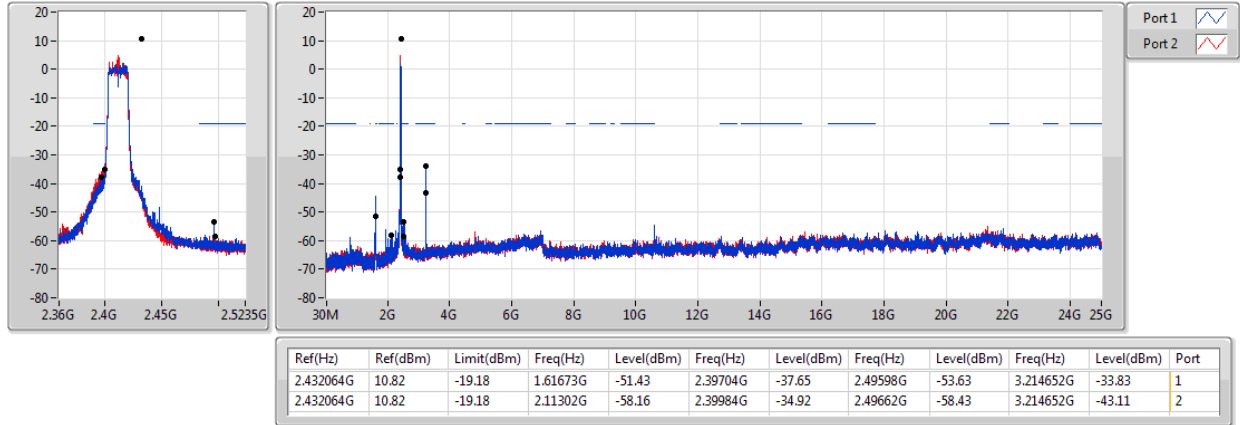
2452MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

CSE NdB

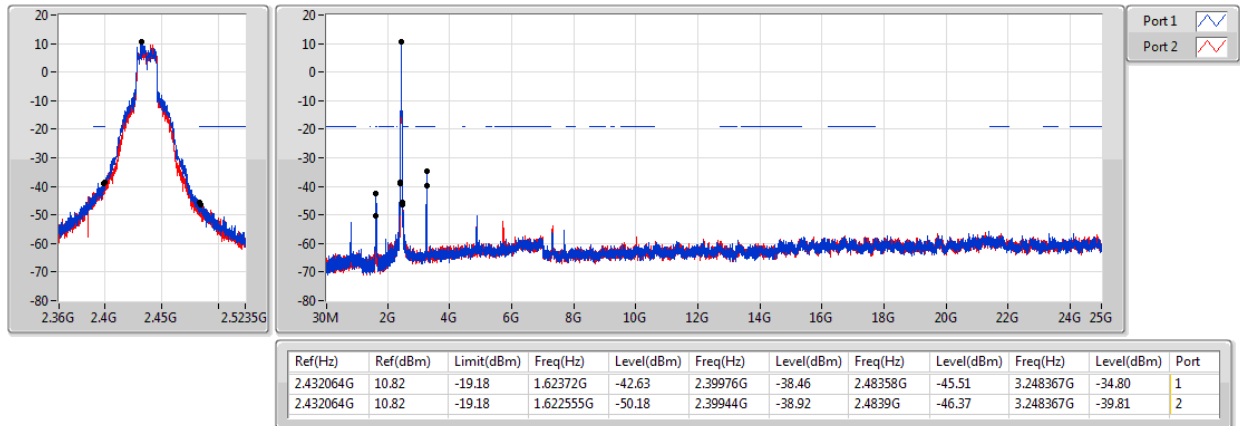
2412MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

CSE NdB

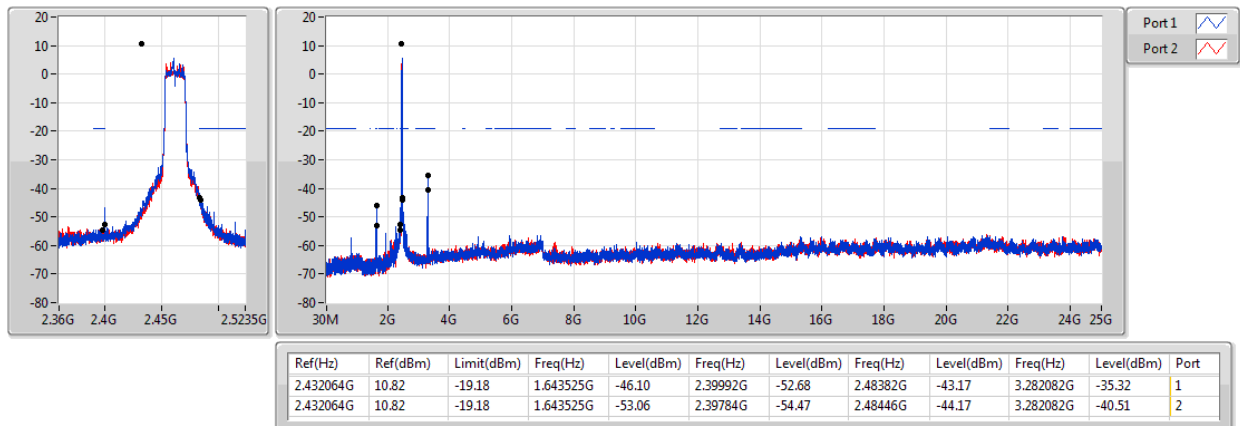
2437MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

CSE NdB

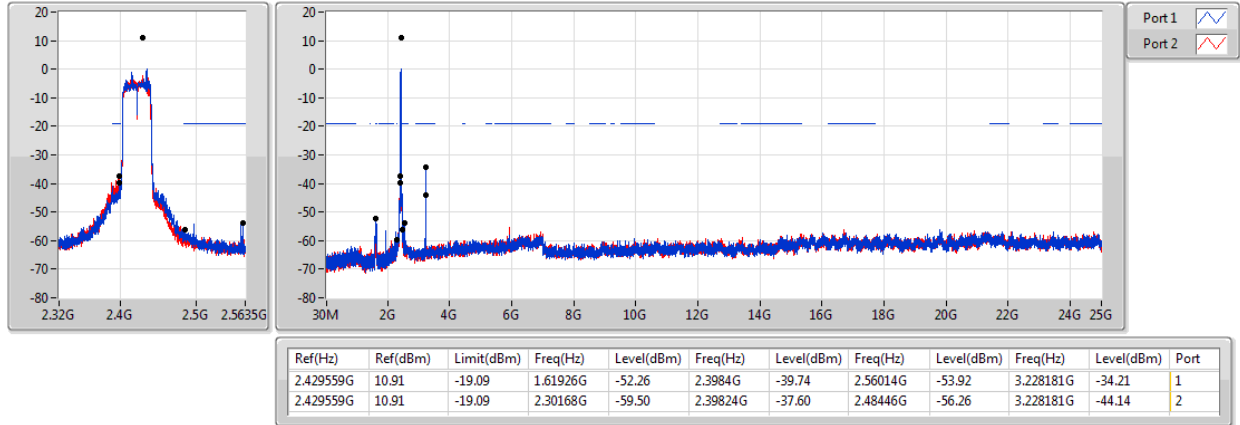
2462MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

CSE NdB

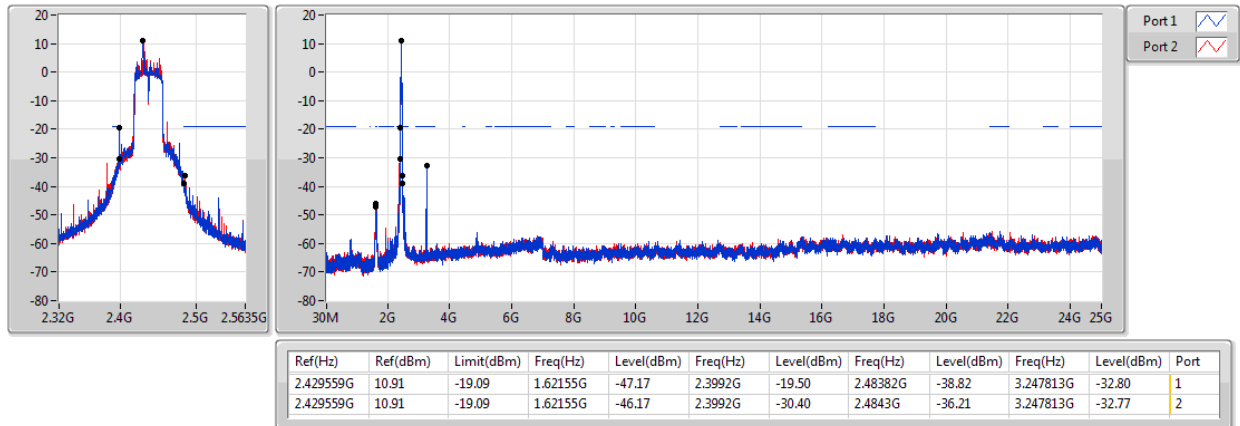
2422MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

CSE NdB

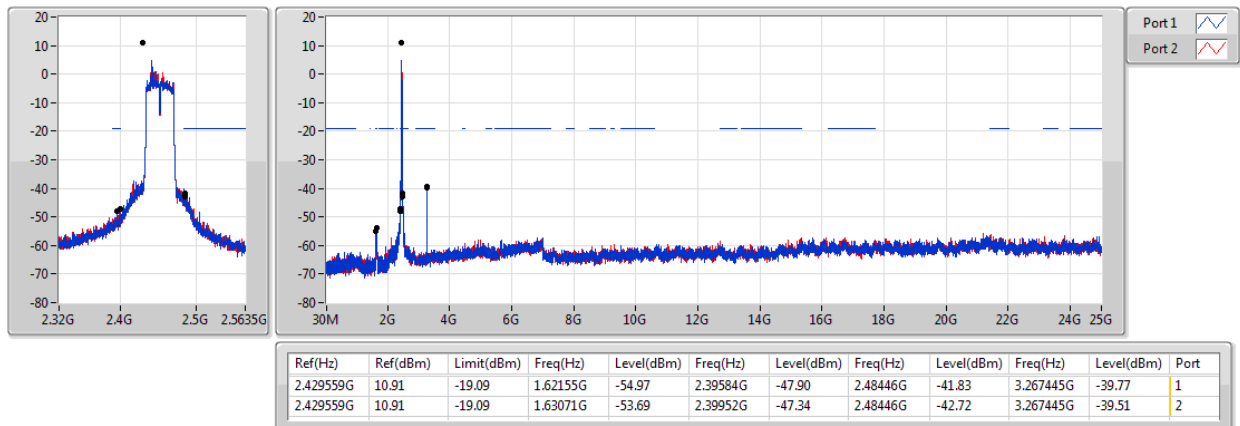
2437MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

CSE NdB

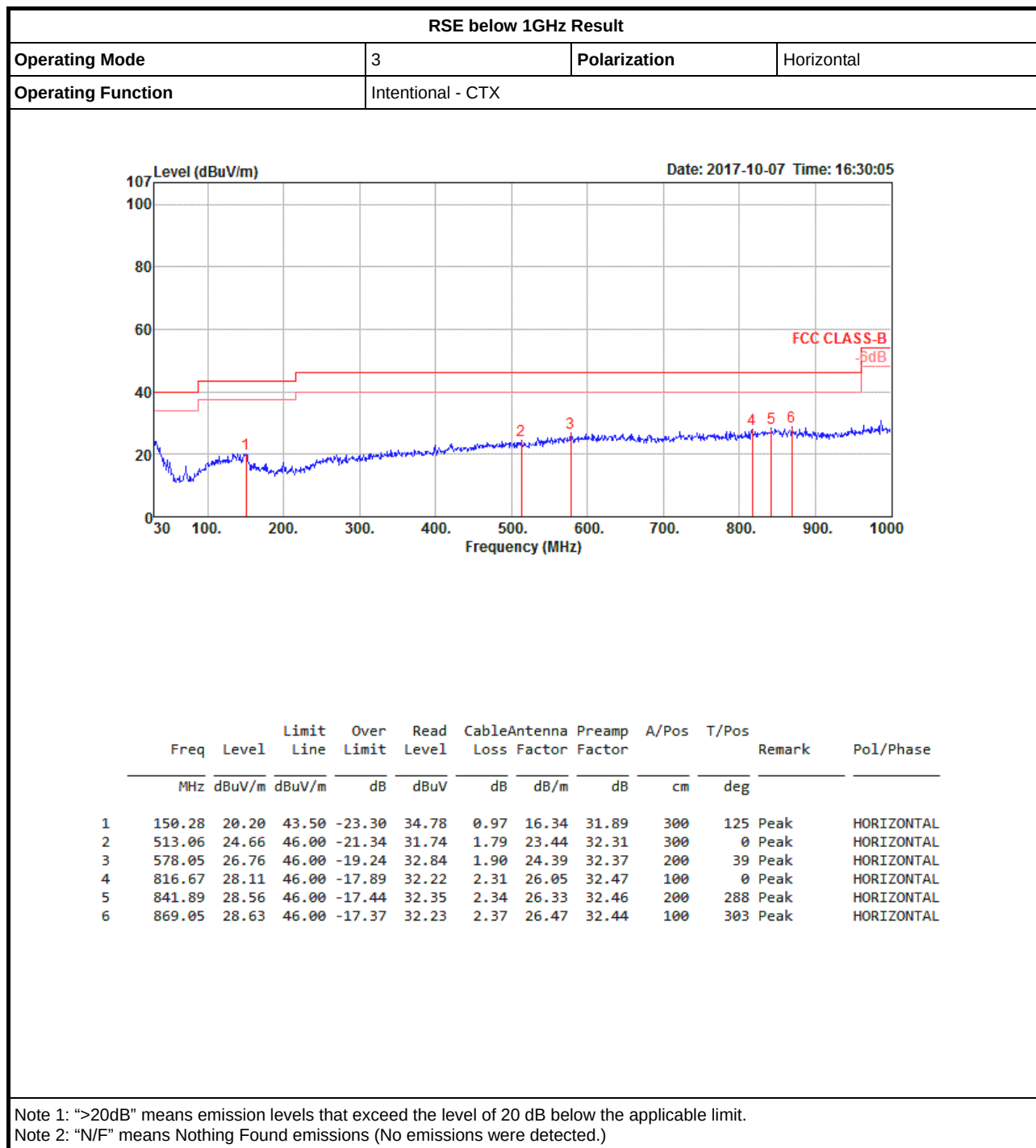
2452MHz





RSE below 1GHz Result and RSE Unintentional 1GHz~5th Result

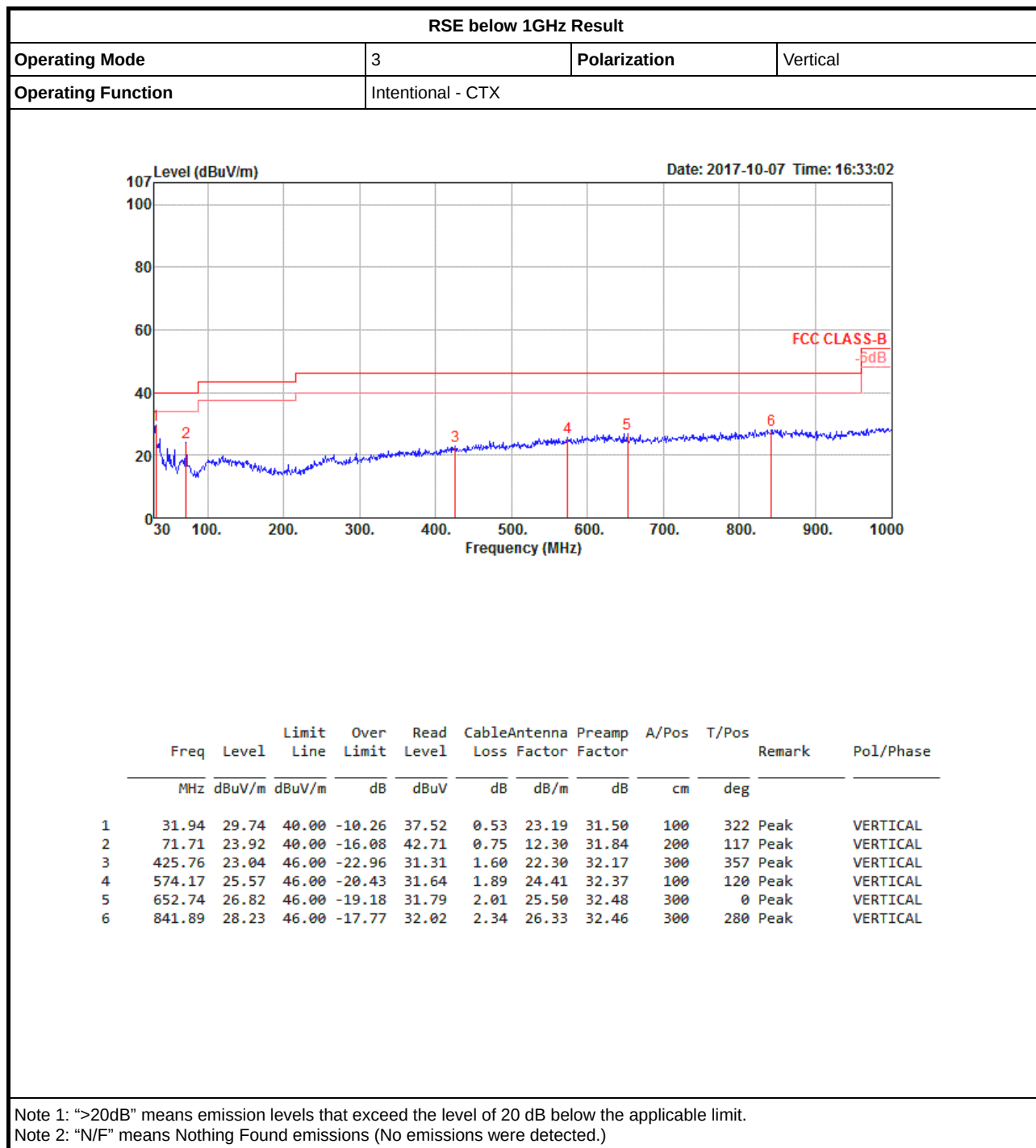
Appendix F.1





RSE below 1GHz Result and RSE Unintentional 1GHz~5th Result

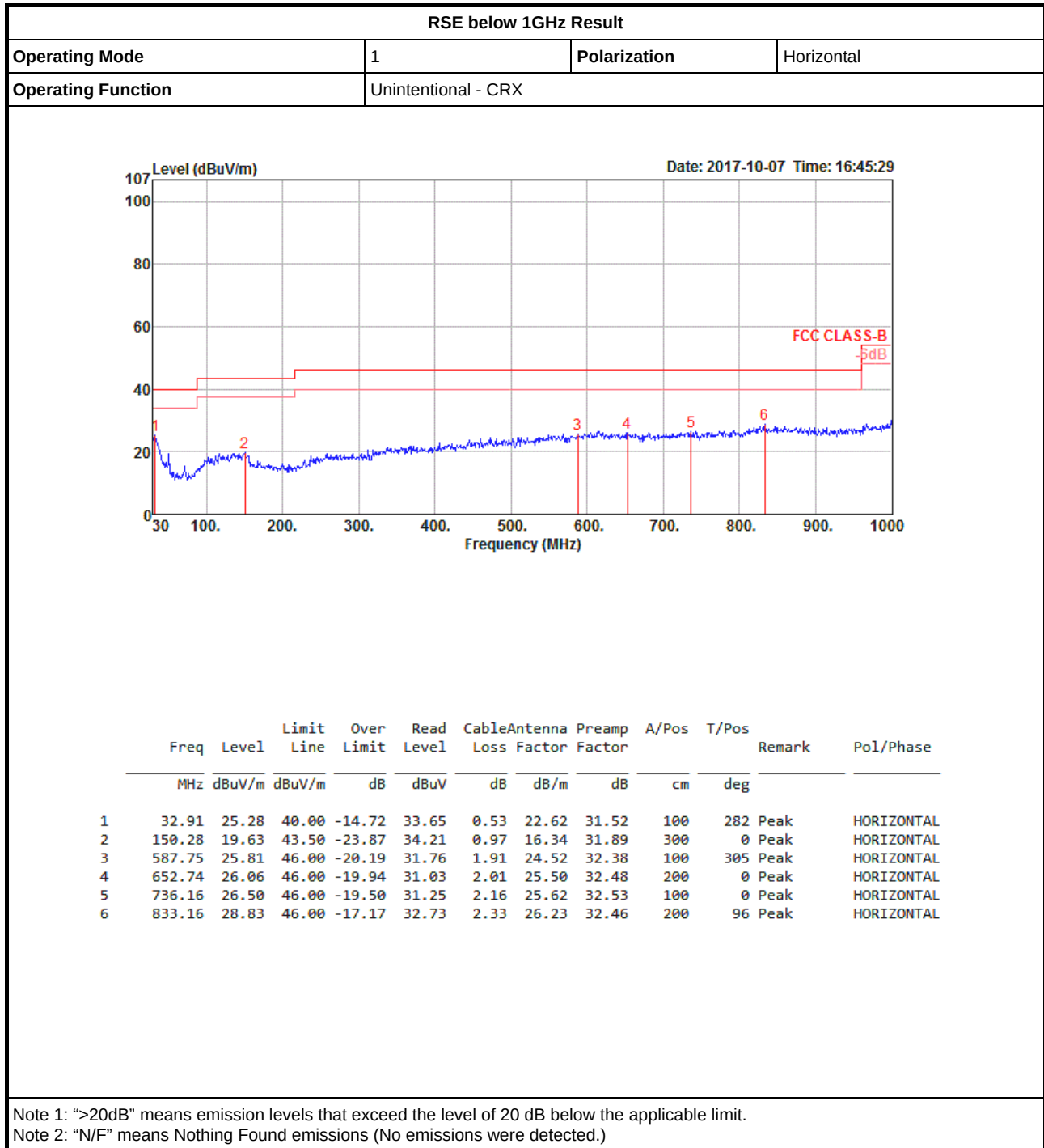
Appendix F.1





RSE below 1GHz Result and RSE Unintentional 1GHz~5th Result

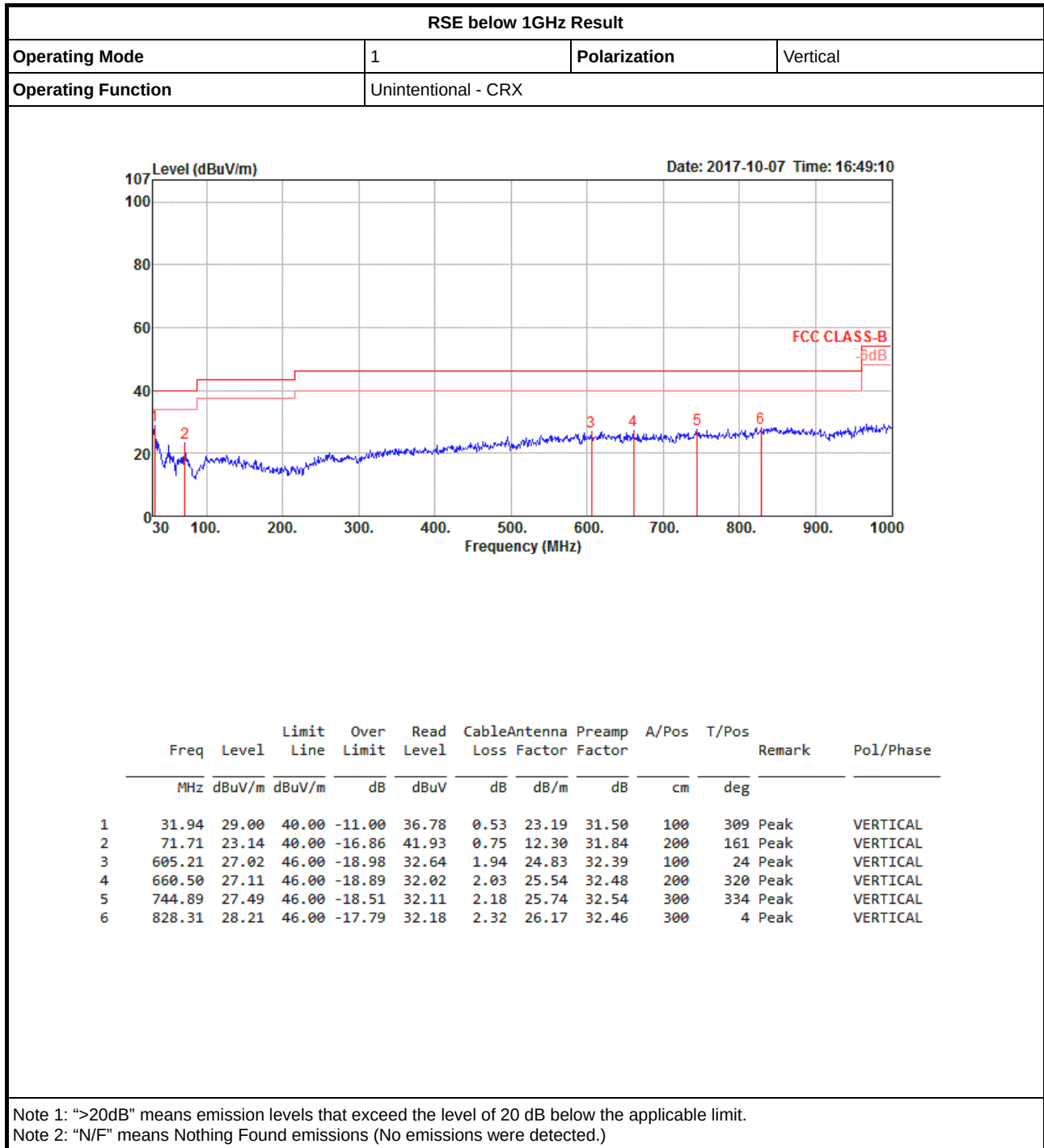
Appendix F.1





RSE below 1GHz Result and RSE Unintentional 1GHz~5th Result

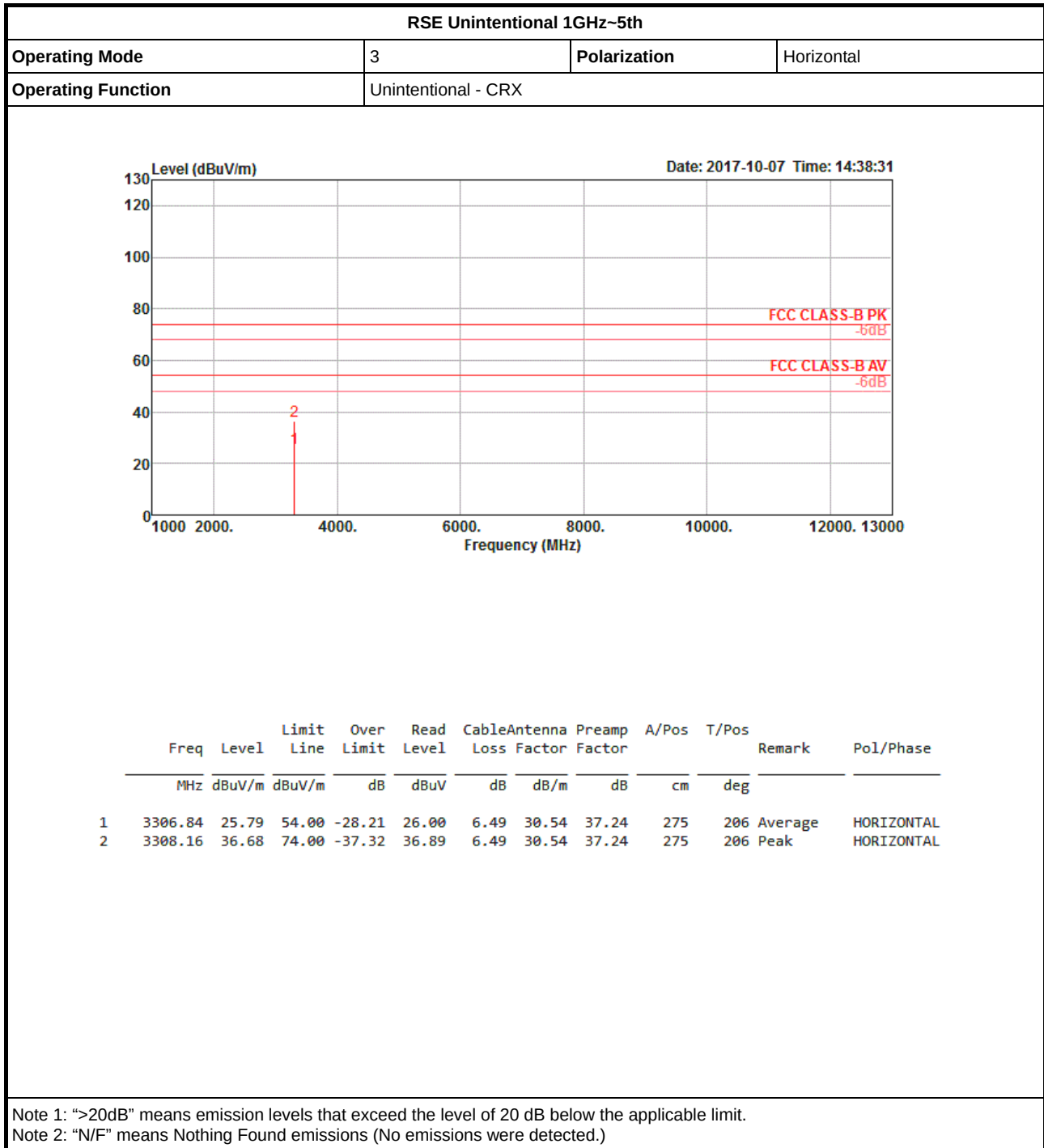
Appendix F.1





RSE below 1GHz Result and RSE Unintentional 1GHz~5th Result

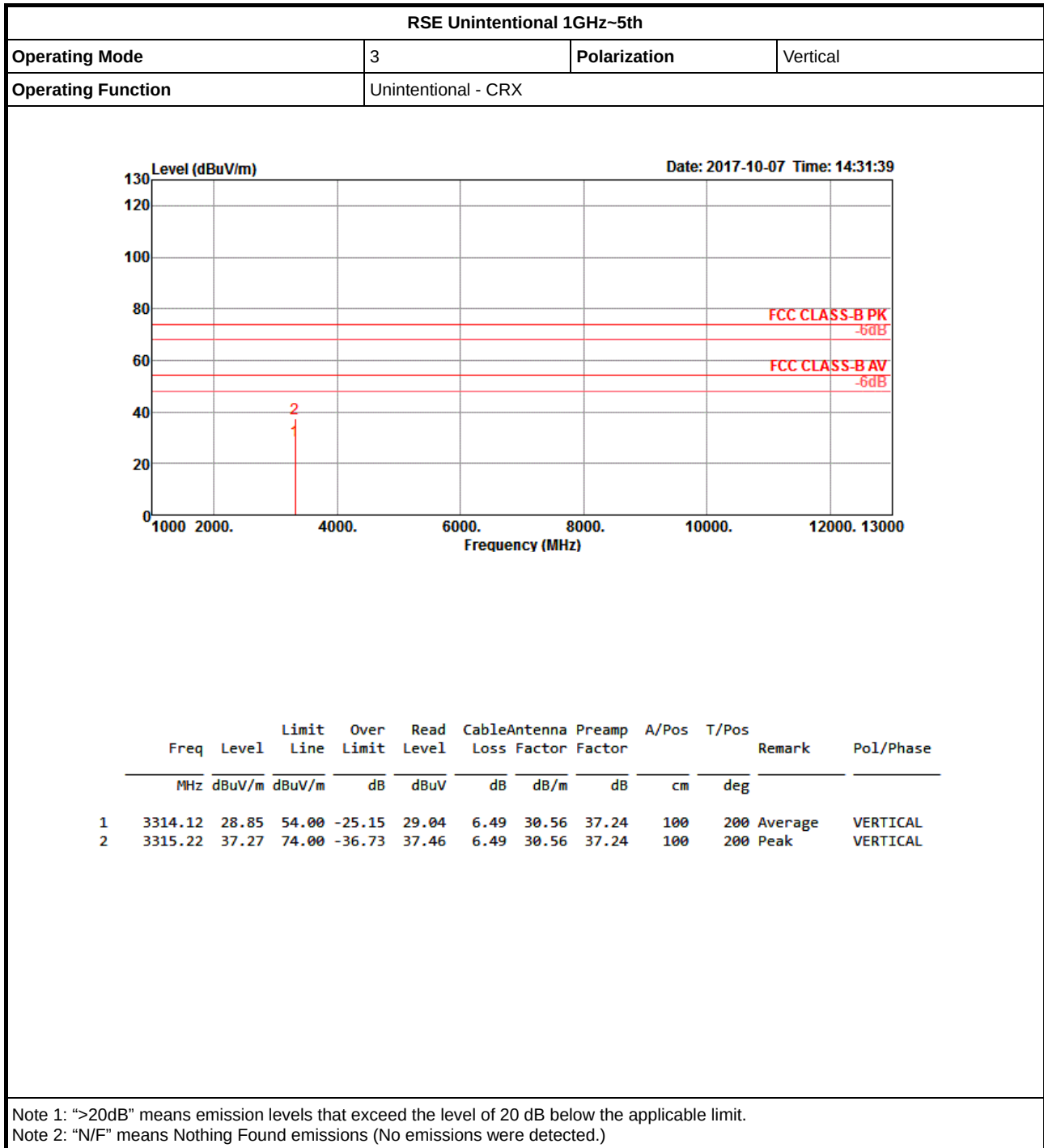
Appendix F.1





RSE below 1GHz Result and RSE Unintentional 1GHz~5th Result

Appendix F.1

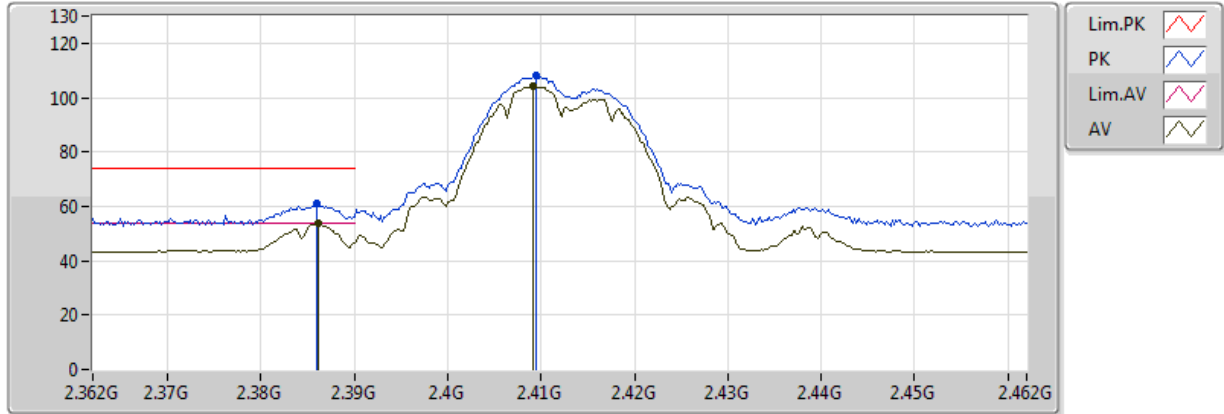


**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.3882G	53.95	54.00	-0.05	30.96	3	Vertical	189	2.13	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

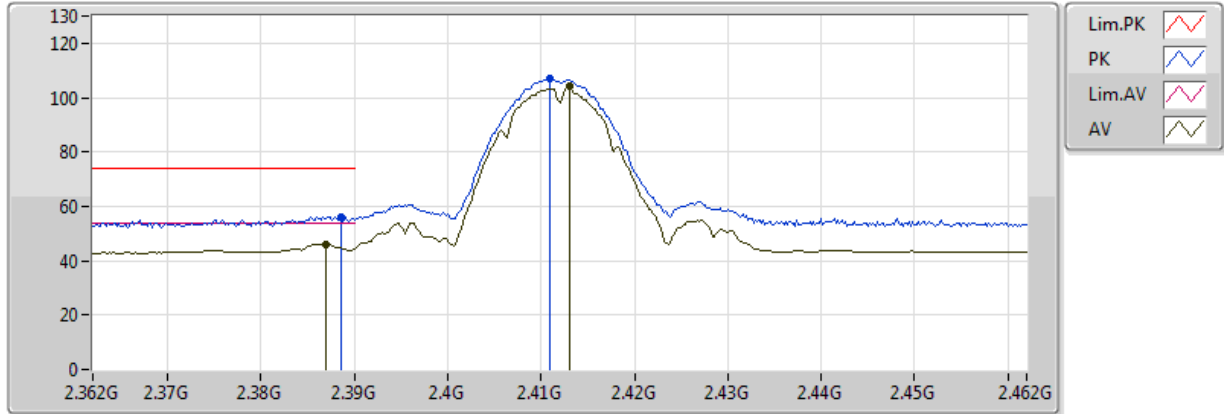


20170929
EUT Y_2TX
Setting 19.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3862G	53.64	54.00	-0.36	30.96	3	Vertical	235	1.50					
AV	2.4092G	104.06	Inf	-Inf	30.93	3	Vertical	235	1.50					
PK	2.386G	61.02	74.00	-12.98	30.96	3	Vertical	235	1.50					
PK	2.4094G	108.00	Inf	-Inf	30.93	3	Vertical	235	1.50					

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

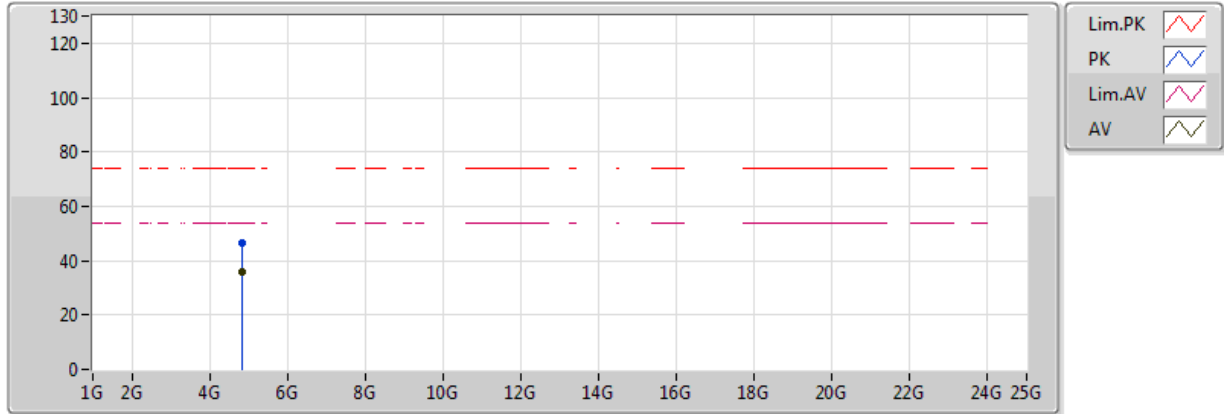


20170929
EUT Y_2TX
Setting 19.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.387G	46.02	54.00	-7.98	30.96	3	Horizontal	241	1.52					
AV	2.413G	104.25	Inf	-Inf	30.93	3	Horizontal	241	1.52					
PK	2.3886G	56.23	74.00	-17.77	30.95	3	Horizontal	241	1.52					
PK	2.411G	107.24	Inf	-Inf	30.93	3	Horizontal	241	1.52					

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

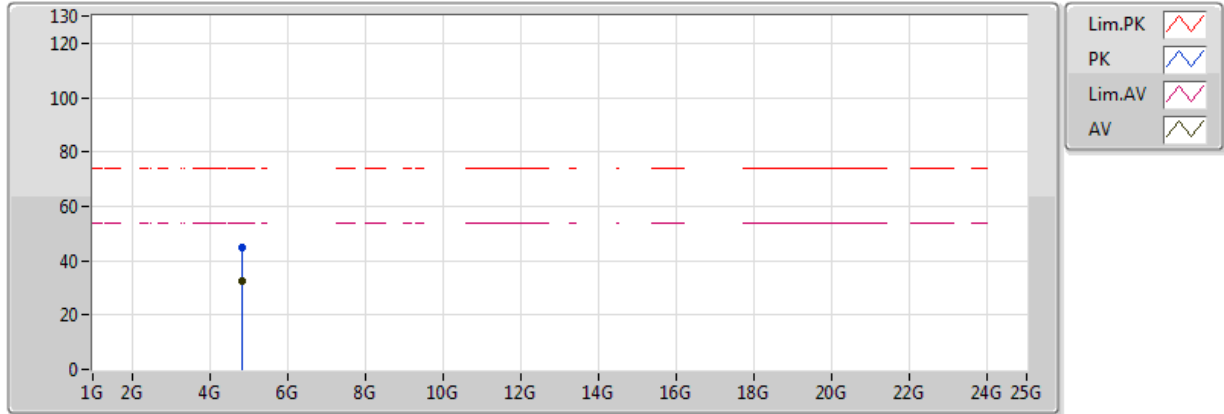


20170929
EUT_Y_2TX
Setting 19.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.82398G	35.84	54.00	-18.16	3.23	3	Vertical	201	1.04					
PK	4.82408G	46.30	74.00	-27.70	3.23	3	Vertical	201	1.04					

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

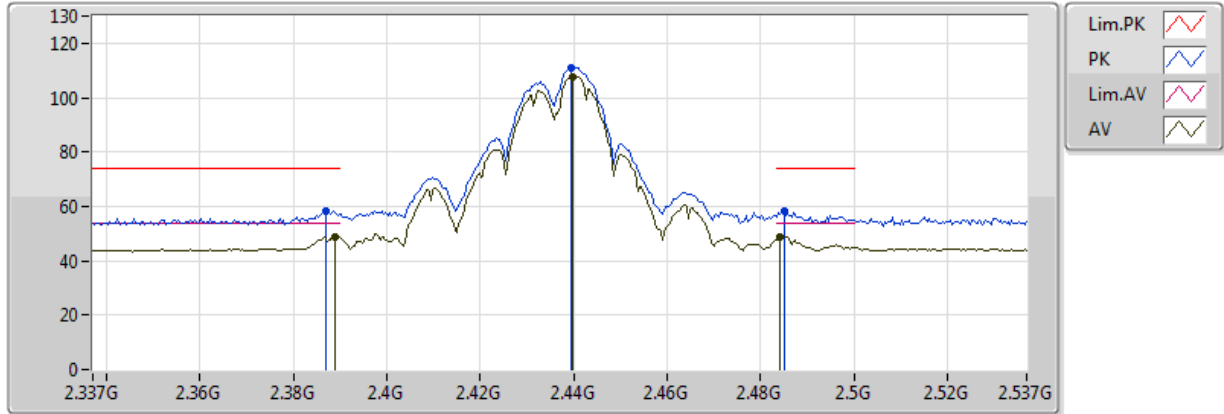


20170929
EUT_Y_2TX
Setting 19.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.824G	32.54	54.00	-21.46	3.23	3	Horizontal	241	1.98					
PK	4.82378G	44.75	74.00	-29.25	3.23	3	Horizontal	241	1.98					

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

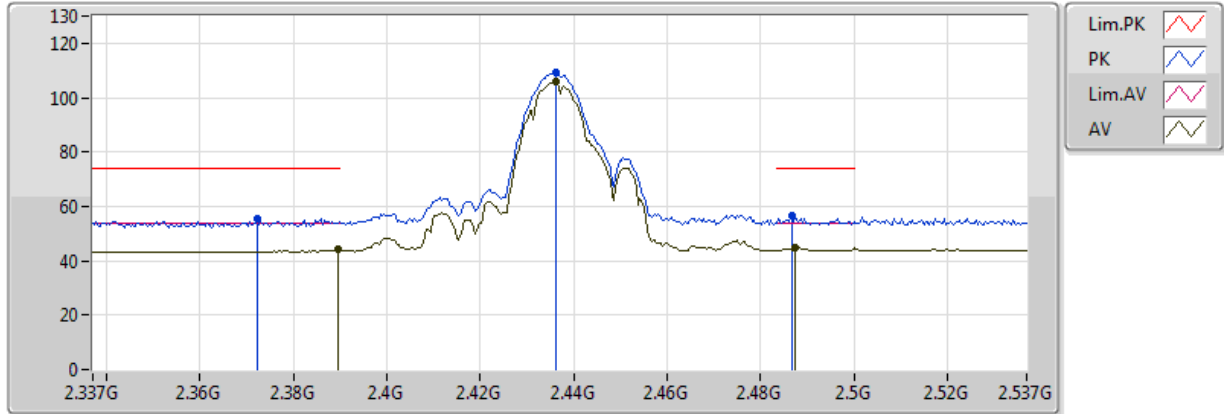


20170929
EUT Y_2TX
Setting 22
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389G	48.96	54.00	-5.04	30.95	3	Vertical	306	2.47					
AV	2.4398G	107.50	Inf	-Inf	30.90	3	Vertical	306	2.47					
AV	2.4842G	48.96	54.00	-5.04	30.86	3	Vertical	306	2.47					
PK	2.387G	58.34	74.00	-15.66	30.96	3	Vertical	306	2.47					
PK	2.4394G	111.20	Inf	-Inf	30.90	3	Vertical	306	2.47					
PK	2.485G	58.16	74.00	-15.84	30.86	3	Vertical	306	2.47					

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

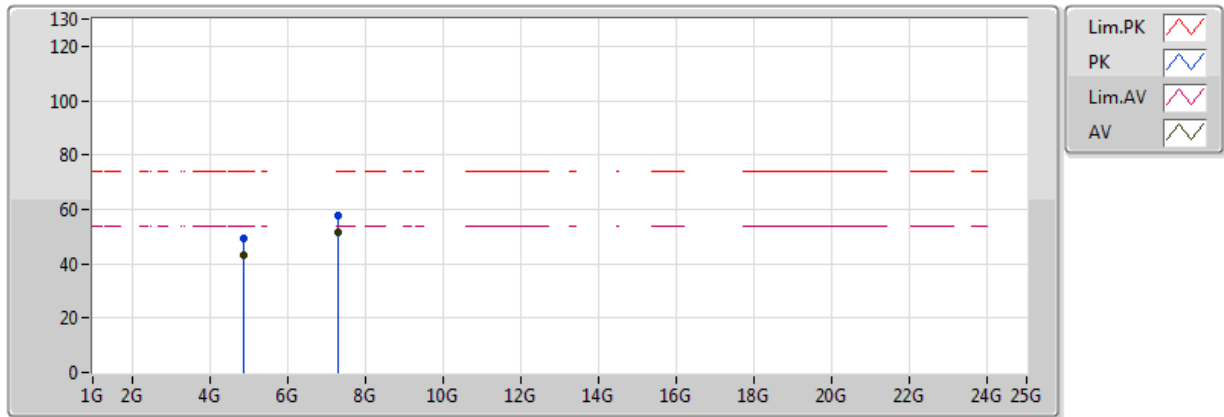


20170929
EUT Y_2TX
Setting 22
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3894G	44.06	54.00	-9.94	30.95	3	Horizontal	228	1.03					
AV	2.4362G	105.65	Inf	-Inf	30.91	3	Horizontal	228	1.03					
AV	2.4874G	44.78	54.00	-9.22	30.86	3	Horizontal	228	1.03					
PK	2.3722G	55.35	74.00	-18.65	30.98	3	Horizontal	228	1.03					
PK	2.4362G	109.39	Inf	-Inf	30.91	3	Horizontal	228	1.03					
PK	2.4866G	56.32	74.00	-17.68	30.86	3	Horizontal	228	1.03					

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

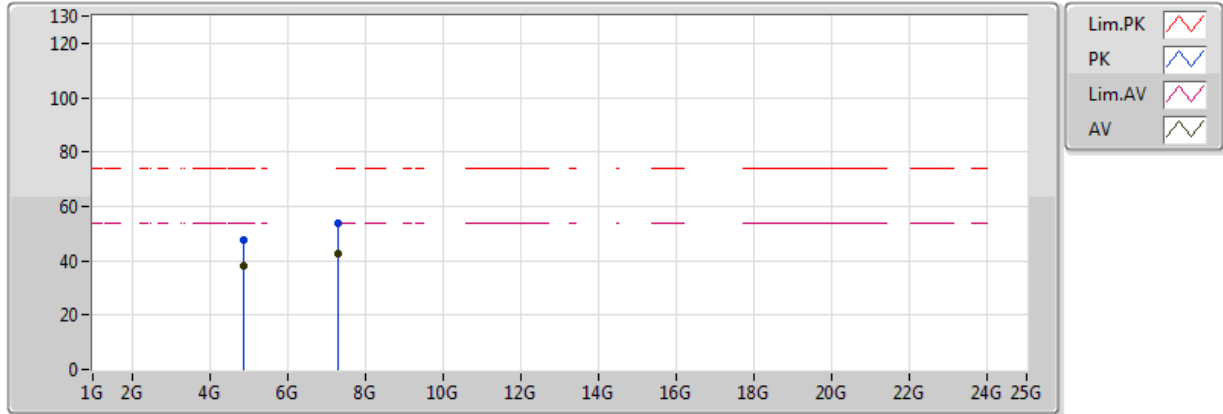


20170929
EUT Y_2TX
Setting 22
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.874G	43.39	54.00	-10.61	3.39	3	Vertical	211	1.01					
AV	7.31024G	51.50	54.00	-2.50	8.84	3	Vertical	27	2.14					
PK	4.87404G	49.21	74.00	-24.79	3.39	3	Vertical	211	1.01					
PK	7.31004G	57.92	74.00	-16.08	8.84	3	Vertical	27	2.14					

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

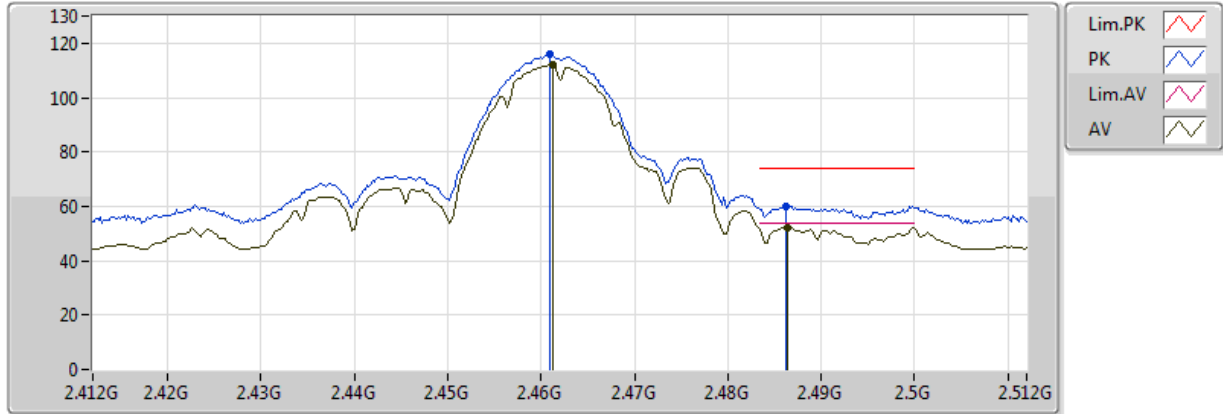


20170929
EUT Y_2TX
Setting 22
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.874G	38.04	54.00	-15.96	3.39	3	Horizontal	27	1.77					
AV	7.31028G	42.33	54.00	-11.67	8.84	3	Horizontal	147	2.63					
PK	4.87384G	47.49	74.00	-26.51	3.39	3	Horizontal	27	1.77					
PK	7.30736G	53.60	74.00	-20.40	8.84	3	Horizontal	147	2.63					

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

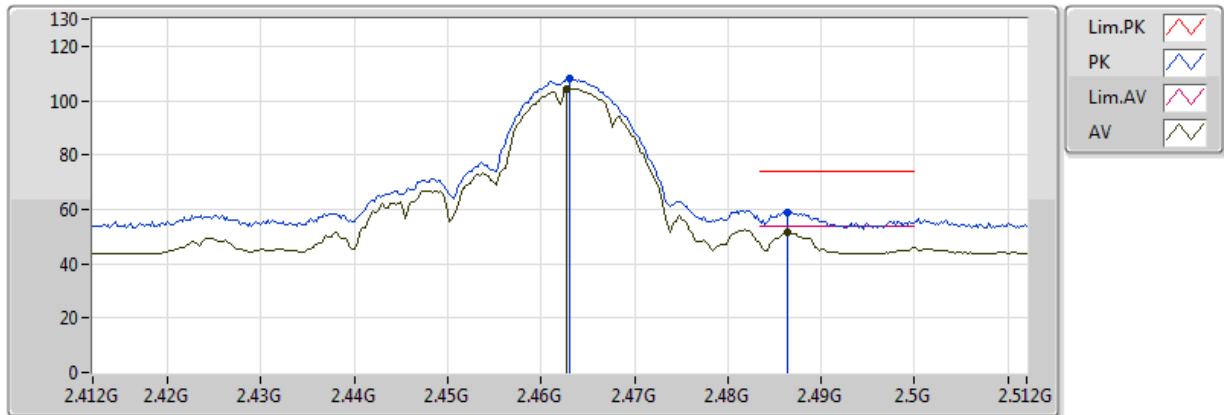


20170929
EUT Y_2TX
Setting 21.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4612G	112.06	Inf	-Inf	30.88	3	Vertical	293	2.62					
AV	2.4864G	52.10	54.00	-1.90	30.86	3	Vertical	293	2.62					
PK	2.461G	115.82	Inf	-Inf	30.89	3	Vertical	293	2.62					
PK	2.4862G	60.07	74.00	-13.93	30.86	3	Vertical	293	2.62					

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

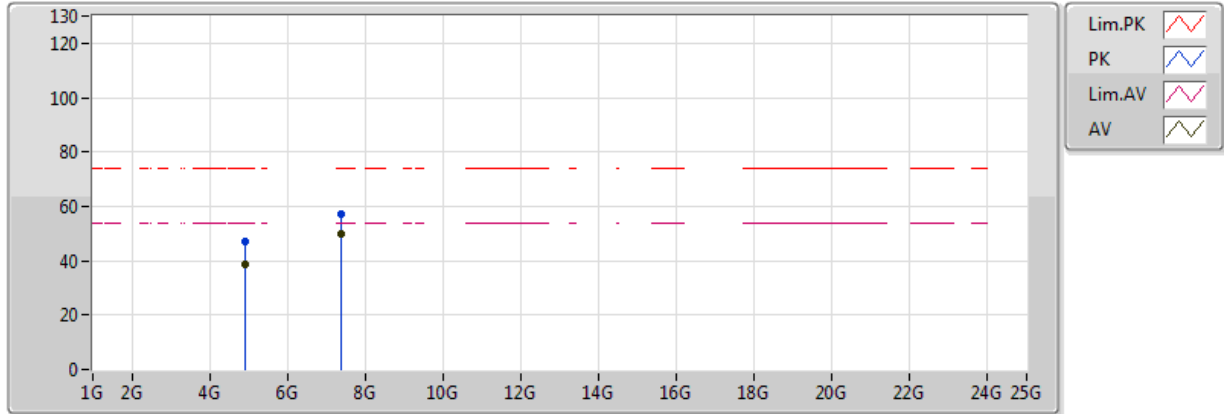


20170929
EUT Y_2TX
Setting 21.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4628G	104.28	Inf	-Inf	30.88	3	Horizontal	55	1.50					
AV	2.4864G	51.36	54.00	-2.64	30.86	3	Horizontal	55	1.50					
PK	2.463G	108.21	Inf	-Inf	30.88	3	Horizontal	55	1.50					
PK	2.4864G	58.72	74.00	-15.28	30.86	3	Horizontal	55	1.50					

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

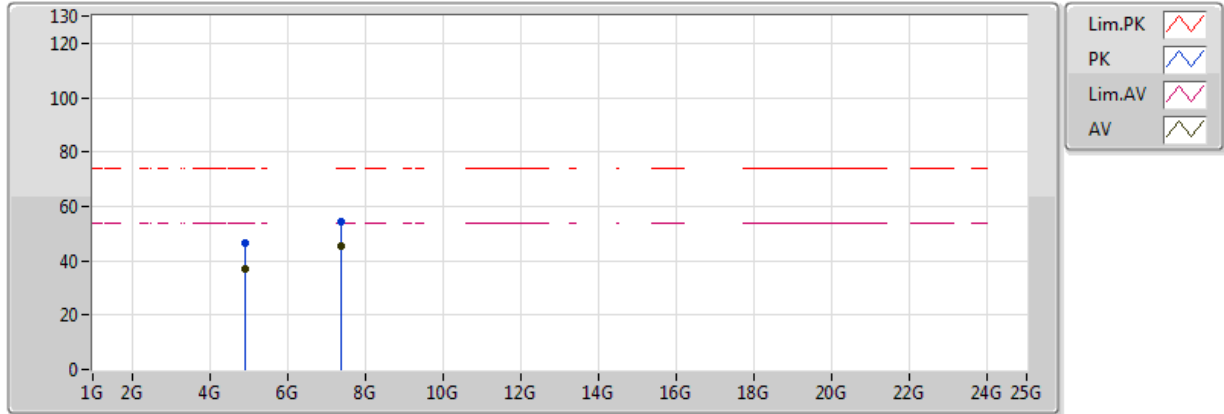


20170929
EUT Y_2TX
Setting 21.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.92398G	38.85	54.00	-15.15	3.55	3	Vertical	273	1.47					
AV	7.38528G	49.88	54.00	-4.12	8.95	3	Vertical	5	1.80					
PK	4.9241G	47.15	74.00	-26.85	3.55	3	Vertical	273	1.47					
PK	7.38512G	56.89	74.00	-17.11	8.95	3	Vertical	5	1.80					

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

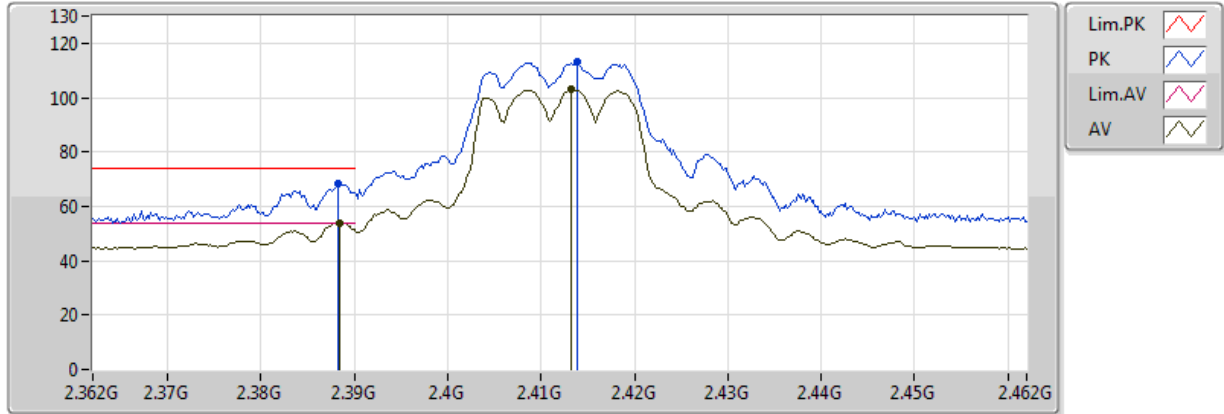


20170929
EUT_Y_2TX
Setting 21.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.924G	37.06	54.00	-16.94	3.55	3	Horizontal	230	2.14					
AV	7.387G	45.63	54.00	-8.37	8.95	3	Horizontal	304	1.73					
PK	4.92412G	46.51	74.00	-27.49	3.55	3	Horizontal	230	2.14					
PK	7.38404G	54.13	74.00	-19.87	8.95	3	Horizontal	304	1.73					

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

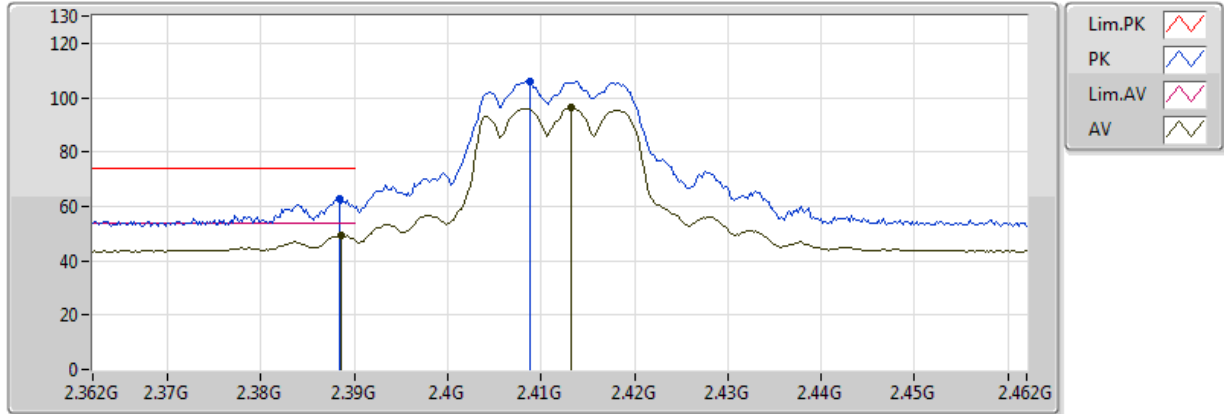


20170929
EUT Y_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3884G	53.79	54.00	-0.21	30.96	3	Vertical	194	1.49					
AV	2.4132G	102.88	Inf	-Inf	30.93	3	Vertical	194	1.49					
PK	2.3882G	68.15	74.00	-5.85	30.96	3	Vertical	194	1.49					
PK	2.4138G	112.96	Inf	-Inf	30.93	3	Vertical	194	1.49					

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

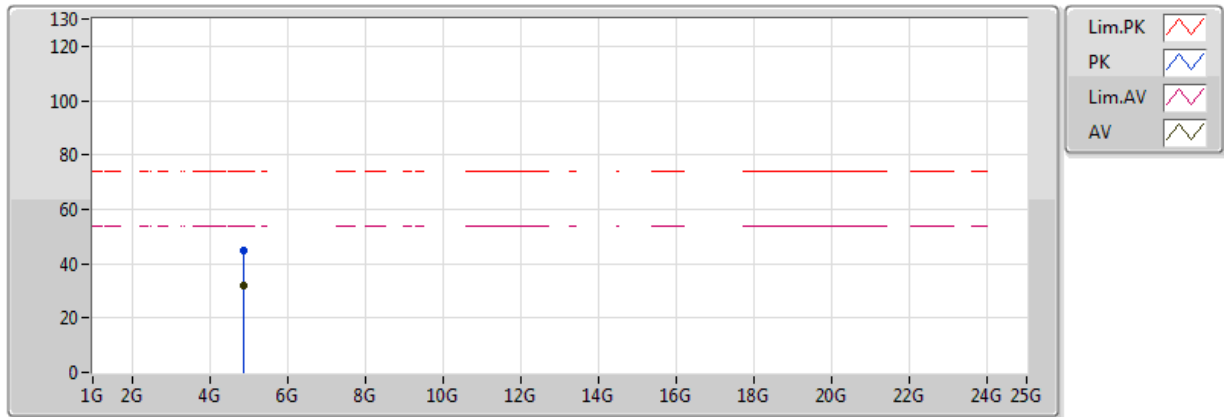


20170929
EUT Y_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3886G	49.54	54.00	-4.46	30.95	3	Horizontal	54	1.49					
AV	2.4132G	96.32	Inf	-Inf	30.93	3	Horizontal	54	1.49					
PK	2.3884G	62.72	74.00	-11.28	30.96	3	Horizontal	54	1.49					
PK	2.4088G	105.97	Inf	-Inf	30.93	3	Horizontal	54	1.49					

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

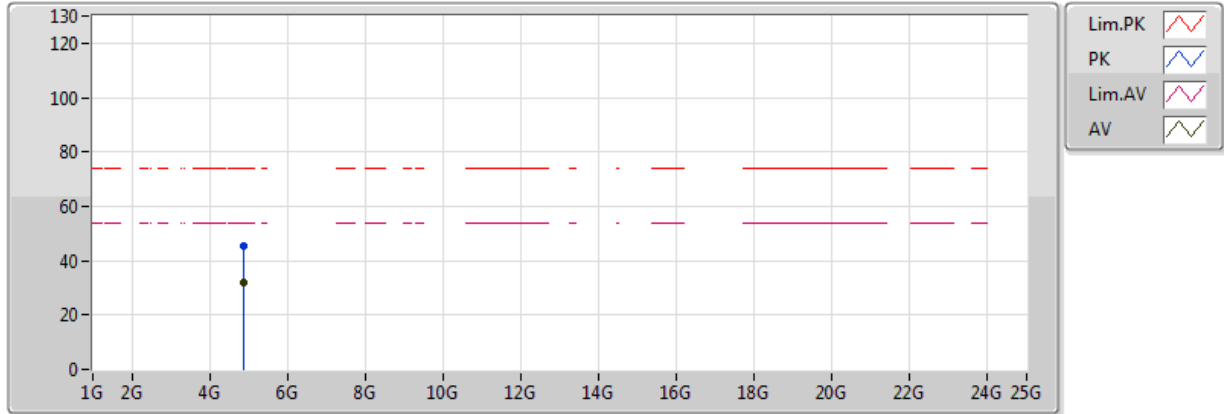


20170929
EUT_Y_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.8738G	32.07	54.00	-21.93	3.39	3	Vertical	294	1.50					
PK	4.863G	45.00	74.00	-29.00	3.35	3	Vertical	294	1.50					

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

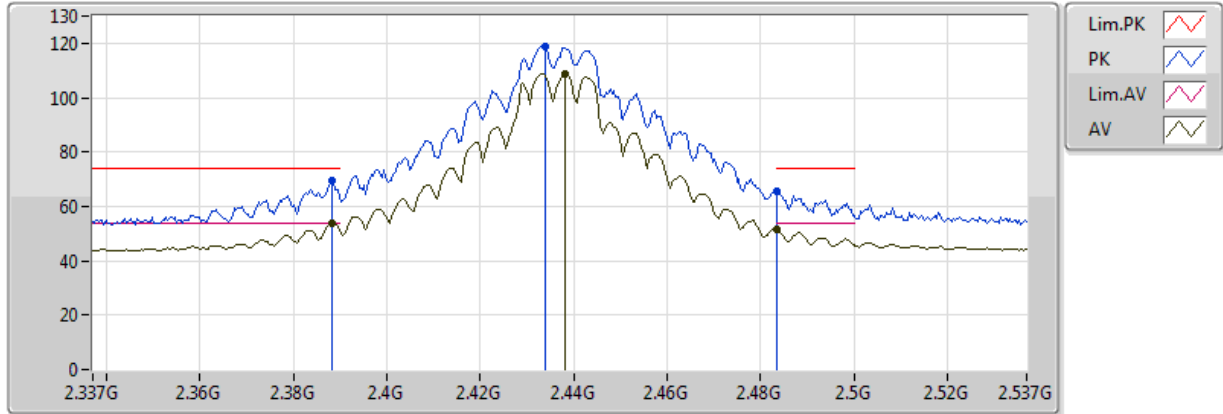


20170929
EUT_Y_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.8704G	32.02	54.00	-21.98	3.38	3	Horizontal	295	2.29					
PK	4.8572G	45.22	74.00	-28.78	3.33	3	Horizontal	295	2.29					

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

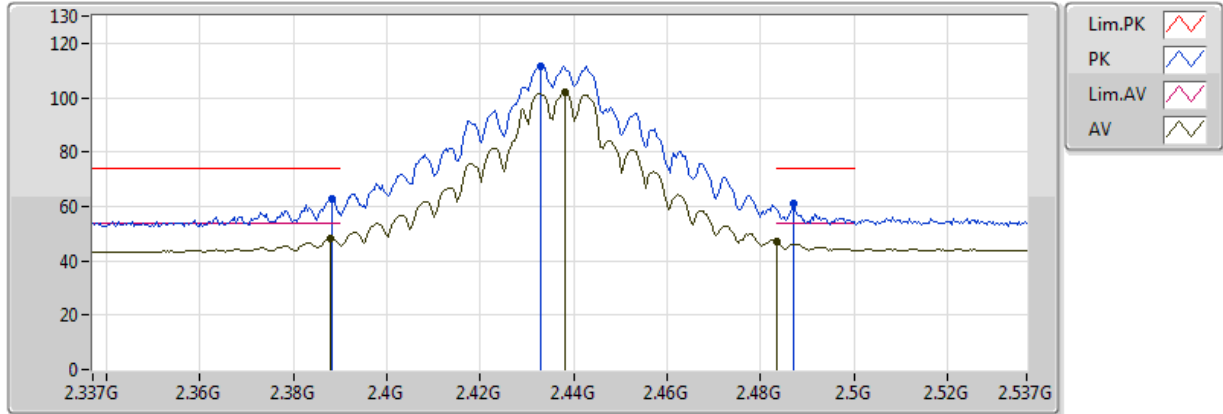


20170929
EUT Y_2TX
Setting 23
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3882G	53.95	54.00	-0.05	30.96	3	Vertical	189	2.13					
AV	2.4382G	108.89	Inf	-Inf	30.91	3	Vertical	189	2.13					
AV	2.483502G	51.83	54.00	-2.17	30.86	3	Vertical	189	2.13					
PK	2.3882G	69.37	74.00	-4.63	30.96	3	Vertical	189	2.13					
PK	2.4338G	118.80	Inf	-Inf	30.91	3	Vertical	189	2.13					
PK	2.483502G	65.78	74.00	-8.22	30.86	3	Vertical	189	2.13					

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

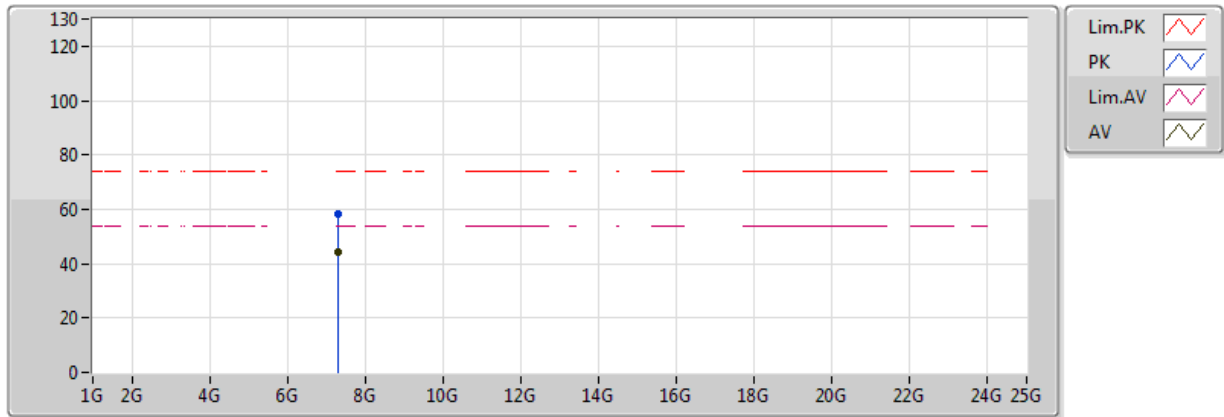


20170929
EUT Y_2TX
Setting 23
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3878G	48.16	54.00	-5.84	30.96	3	Horizontal	70	1.50					
AV	2.4382G	101.90	Inf	-Inf	30.91	3	Horizontal	70	1.50					
AV	2.483502G	47.15	54.00	-6.85	30.86	3	Horizontal	70	1.50					
PK	2.3882G	62.95	74.00	-11.05	30.96	3	Horizontal	70	1.50					
PK	2.433G	111.55	Inf	-Inf	30.91	3	Horizontal	70	1.50					
PK	2.487G	60.86	74.00	-13.14	30.86	3	Horizontal	70	1.50					

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

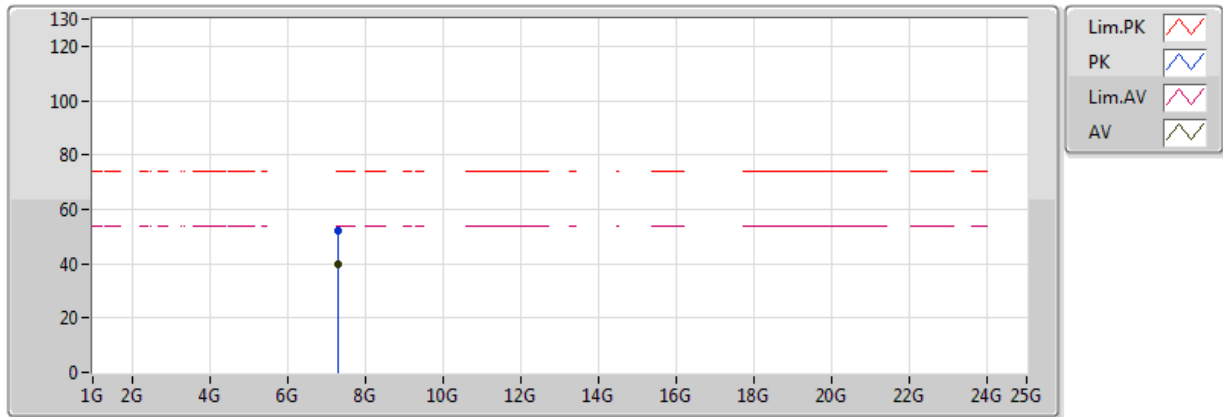


20170929
EUT Y_2TX
Setting 23
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.3109G	44.44	54.00	-9.56	8.85	3	Vertical	7	2.49					
PK	7.3113G	58.07	74.00	-15.93	8.85	3	Vertical	7	2.49					

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

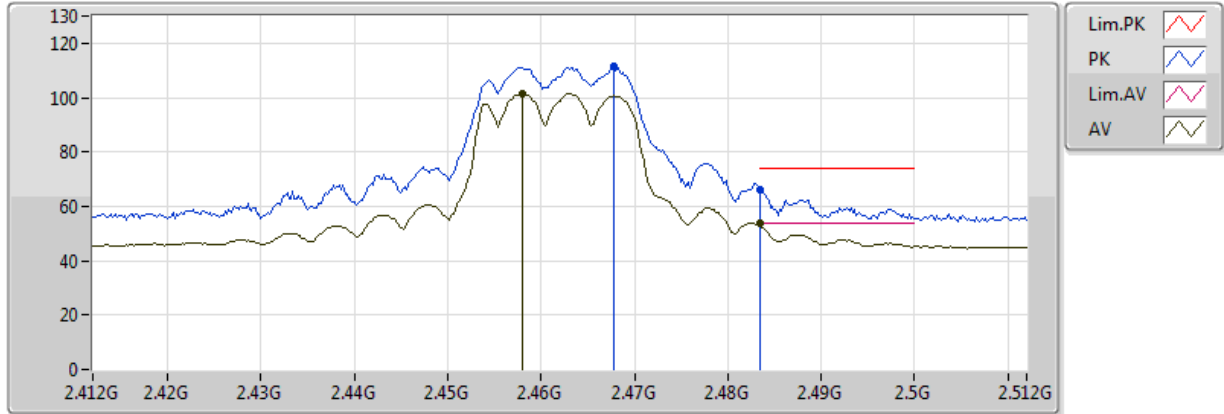


20170929
EUT Y_2TX
Setting 23
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.3062G	39.73	54.00	-14.27	8.84	3	Horizontal	291	1.05					
PK	7.3027G	52.11	74.00	-21.89	8.83	3	Horizontal	291	1.05					

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

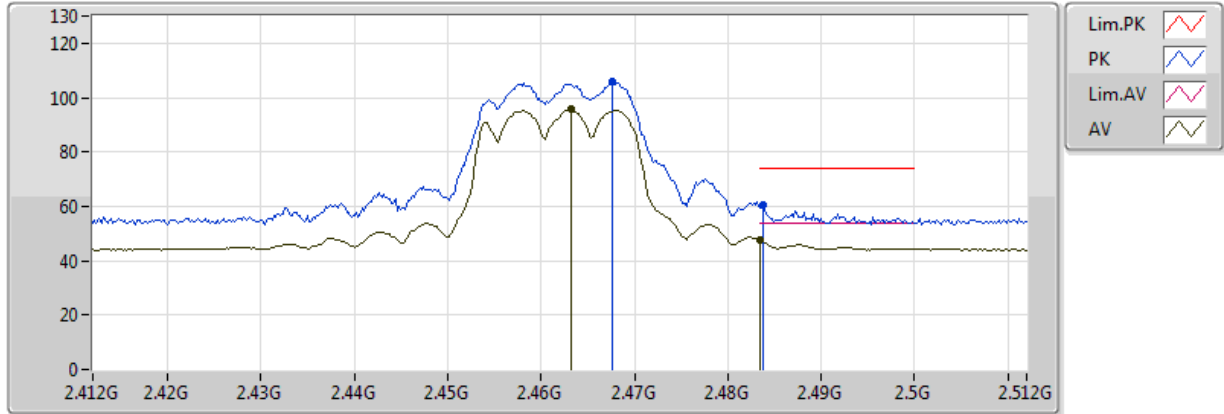


20170929
EUT Y_2TX
Setting 15.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.458G	101.42	Inf	-Inf	30.89	3	Vertical	192	1.64					
AV	2.483502G	53.54	54.00	-0.46	30.86	3	Vertical	192	1.64					
PK	2.4678G	111.25	Inf	-Inf	30.88	3	Vertical	192	1.64					
PK	2.483502G	66.33	74.00	-7.67	30.86	3	Vertical	192	1.64					

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

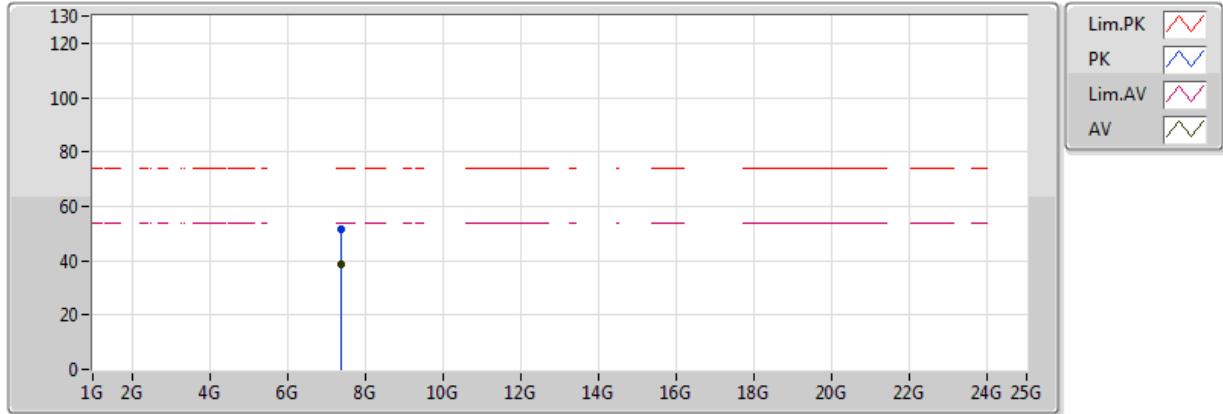


20170929
EUT Y_2TX
Setting 15.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4632G	95.63	Inf	-Inf	30.88	3	Horizontal	70	1.41					
AV	2.483502G	47.57	54.00	-6.43	30.86	3	Horizontal	70	1.41					
PK	2.4676G	105.64	Inf	-Inf	30.88	3	Horizontal	70	1.41					
PK	2.4838G	60.34	74.00	-13.66	30.86	3	Horizontal	70	1.41					

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

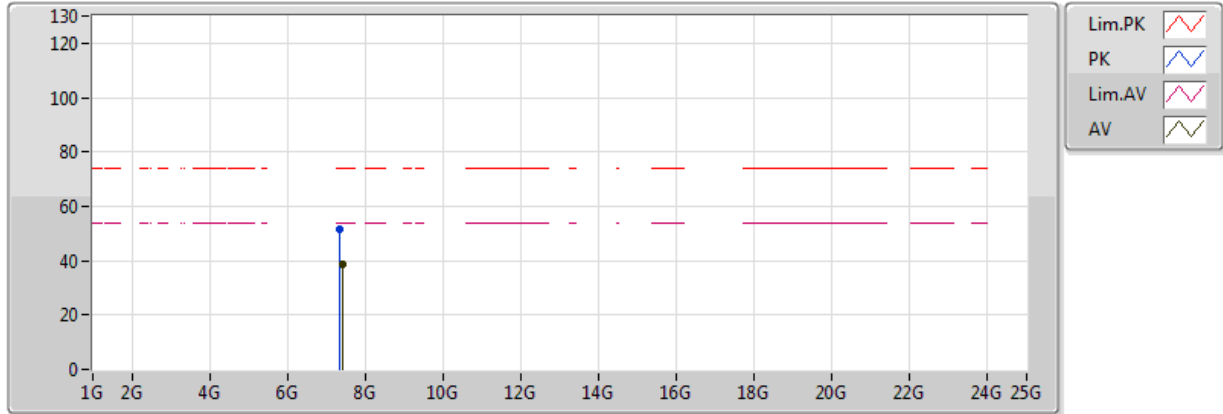


20170929
EUT Y_2TX
Setting 15.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.3856G	38.74	54.00	-15.26	8.95	3	Vertical	355	1.29					
PK	7.3964G	51.78	74.00	-22.22	8.96	3	Vertical	355	1.29					

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

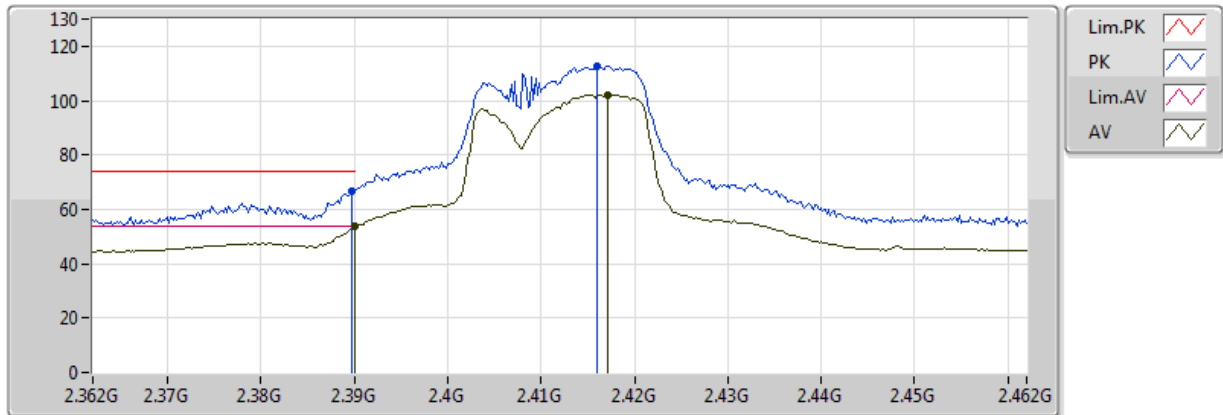


20170929
EUT_Y_2TX
Setting 15.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.4244G	38.39	54.00	-15.61	9.02	3	Horizontal	291	1.80					
PK	7.3588G	51.36	74.00	-22.64	8.91	3	Horizontal	291	1.80					

802.11ac VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

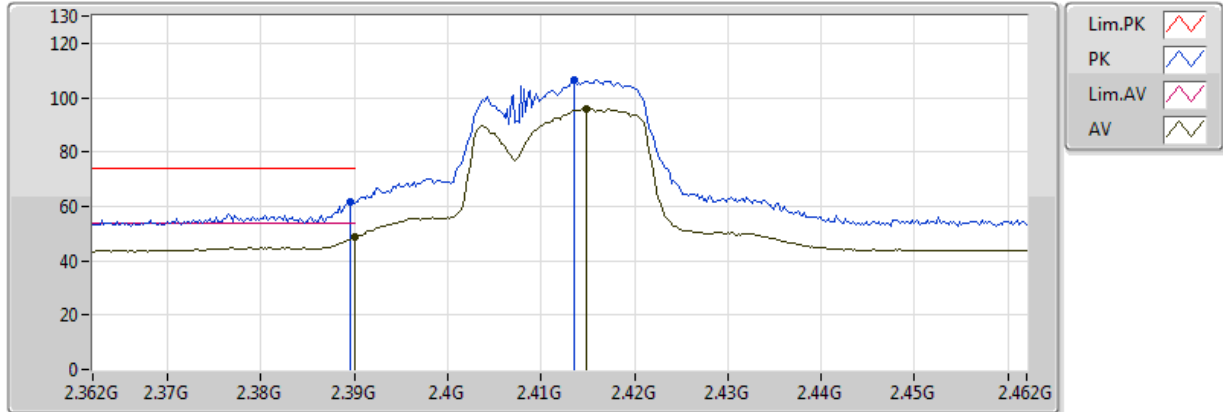


20170929
EUT Y_2TX
Setting 15.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	53.52	54.00	-0.48	30.95	3	Vertical	193	1.50					
AV	2.4172G	102.26	Inf	-Inf	30.92	3	Vertical	193	1.50					
PK	2.3898G	66.68	74.00	-7.32	30.95	3	Vertical	193	1.50					
PK	2.416G	112.74	Inf	-Inf	30.93	3	Vertical	193	1.50					

802.11ac VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

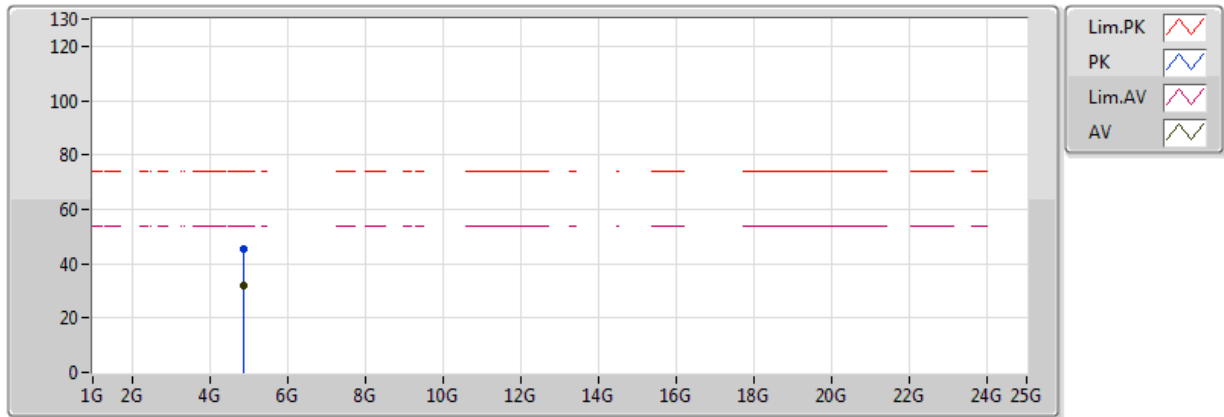


20170929
EUT Y_2TX
Setting 15.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	48.81	54.00	-5.19	30.95	3	Horizontal	56	1.53					
AV	2.4148G	95.99	Inf	-Inf	30.93	3	Horizontal	56	1.53					
PK	2.3896G	61.47	74.00	-12.53	30.95	3	Horizontal	56	1.53					
PK	2.4136G	106.34	Inf	-Inf	30.93	3	Horizontal	56	1.53					

802.11ac VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

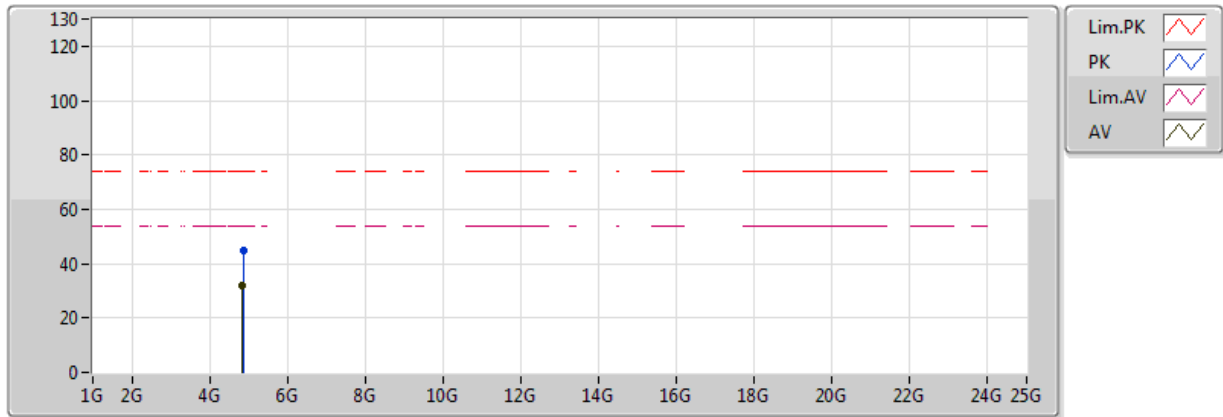


20170929
EUT_Y_2TX
Setting 15.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.873G	31.90	54.00	-22.10	3.38	3	Vertical	286	2.00					
PK	4.869G	45.21	74.00	-28.79	3.37	3	Vertical	286	2.00					

802.11ac VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

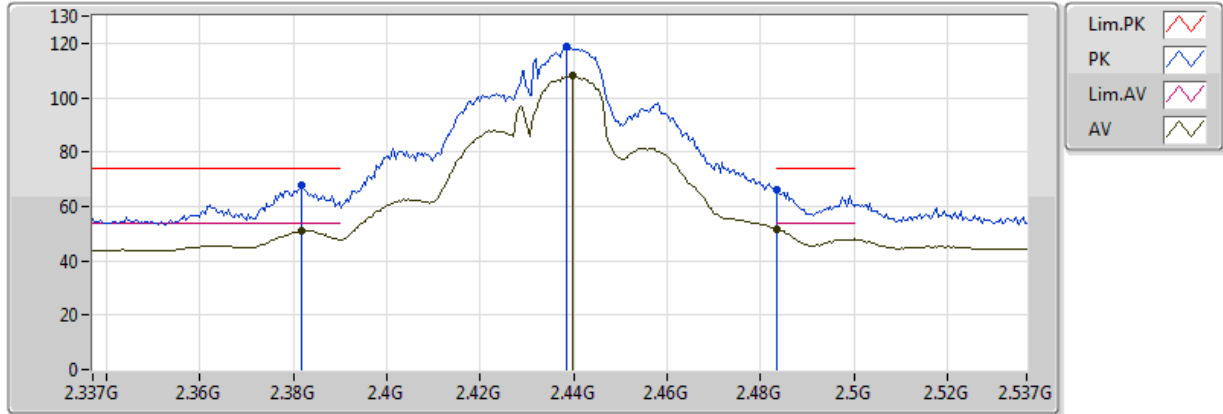


20170929
EUT_Y_2TX
Setting 15.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.8504G	32.04	54.00	-21.96	3.31	3	Horizontal	94	2.50					
PK	4.871G	45.00	74.00	-29.00	3.38	3	Horizontal	94	2.50					

802.11ac VHT20_Nss1,(MCS0)_2TX

2437MHz_TX



20170929
EUT Y_2TX
Setting 23
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3818G	51.06	54.00	-2.94	30.96	3	Vertical	193	1.09					
AV	2.4398G	108.25	Inf	-Inf	30.90	3	Vertical	193	1.09					
AV	2.483502G	51.66	54.00	-2.34	30.86	3	Vertical	193	1.09					
PK	2.3818G	67.88	74.00	-6.12	30.96	3	Vertical	193	1.09					
PK	2.4386G	119.07	Inf	-Inf	30.91	3	Vertical	193	1.09					
PK	2.483502G	66.26	74.00	-7.74	30.86	3	Vertical	193	1.09					

802.11ac VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

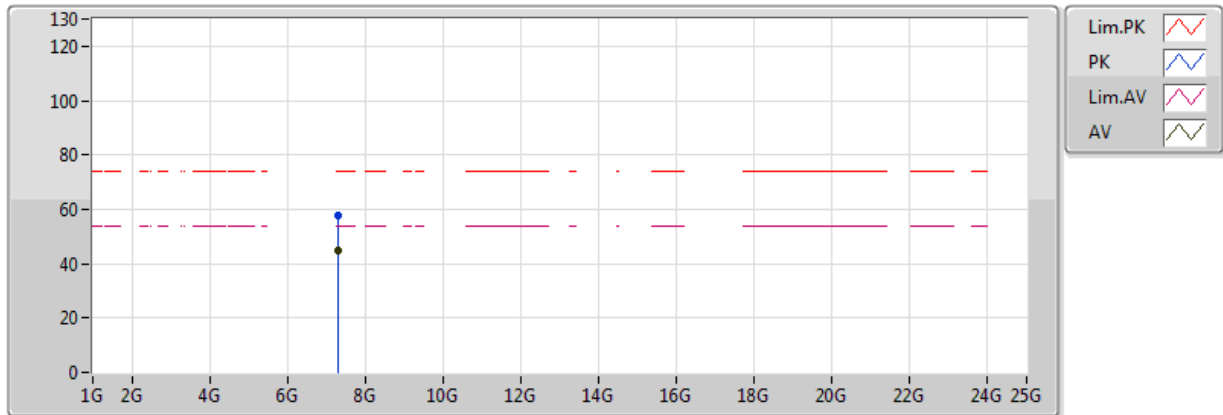


20170929
EUT Y_2TX
Setting 23
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.383G	46.70	54.00	-7.30	30.96	3	Horizontal	71	1.48					
AV	2.4398G	102.22	Inf	-Inf	30.90	3	Horizontal	71	1.48					
AV	2.483502G	47.67	54.00	-6.33	30.86	3	Horizontal	71	1.48					
PK	2.3822G	61.22	74.00	-12.78	30.96	3	Horizontal	71	1.48					
PK	2.4386G	112.63	Inf	-Inf	30.91	3	Horizontal	71	1.48					
PK	2.4838G	61.02	74.00	-12.98	30.86	3	Horizontal	71	1.48					

802.11ac VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

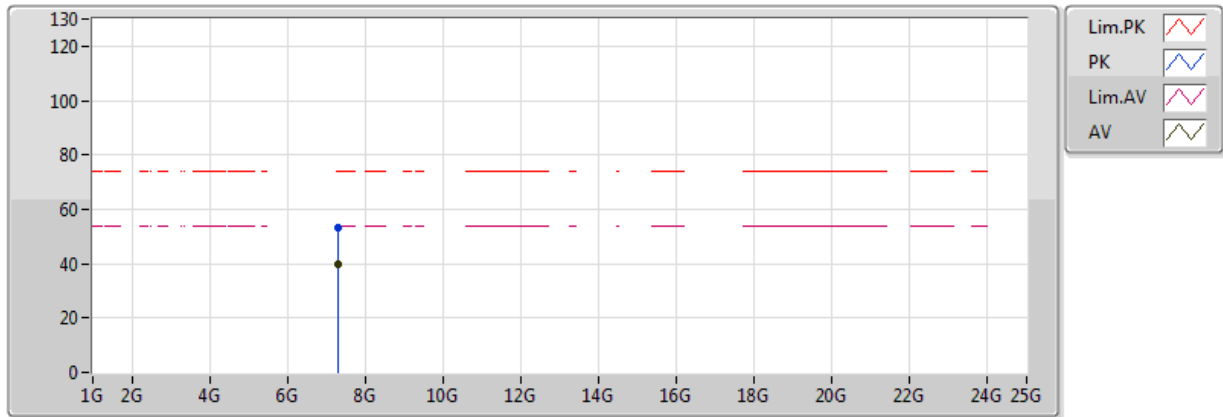


20170929
EUT Y_2TX
Setting 23
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.3115G	44.61	54.00	-9.39	8.85	3	Vertical	9	2.49					
PK	7.3116G	57.87	74.00	-16.13	8.85	3	Vertical	9	2.49					

802.11ac VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

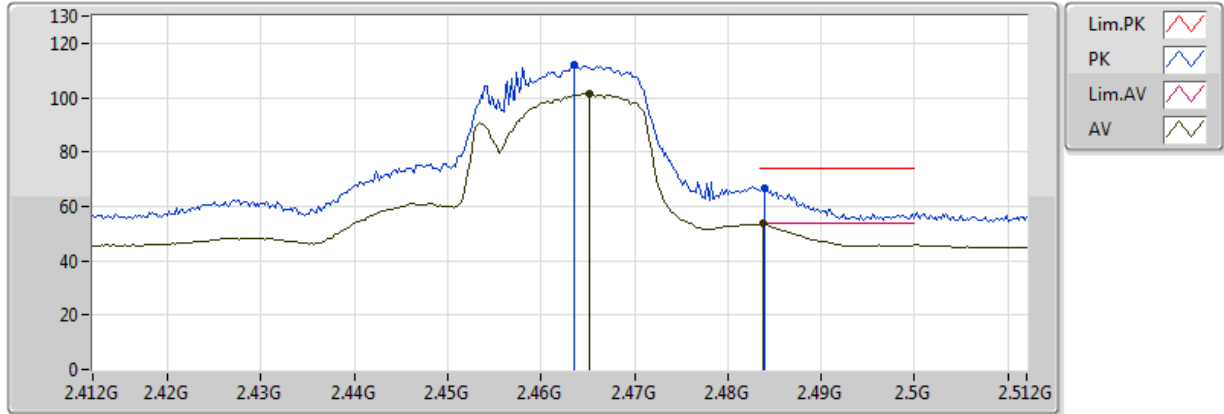


20170929
EUT Y_2TX
Setting 23
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.3118G	39.97	54.00	-14.03	8.85	3	Horizontal	303	1.01					
PK	7.3135G	53.02	74.00	-20.98	8.85	3	Horizontal	303	1.01					

802.11ac VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

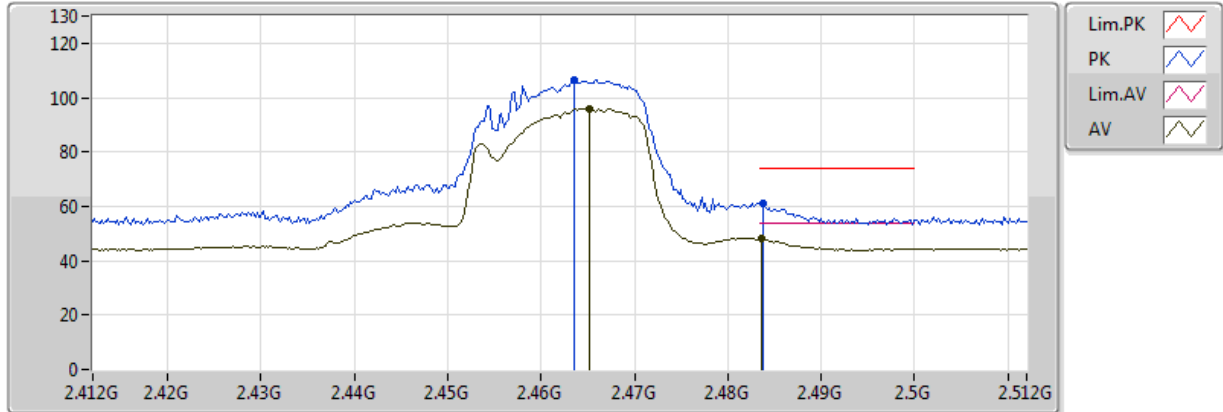


20170929
EUT Y_2TX
Setting 15.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4652G	101.48	Inf	-Inf	30.88	3	Vertical	192	1.65					
AV	2.4838G	53.53	54.00	-0.47	30.86	3	Vertical	192	1.65					
PK	2.4636G	112.15	Inf	-Inf	30.88	3	Vertical	192	1.65					
PK	2.484G	66.66	74.00	-7.34	30.86	3	Vertical	192	1.65					

802.11ac VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

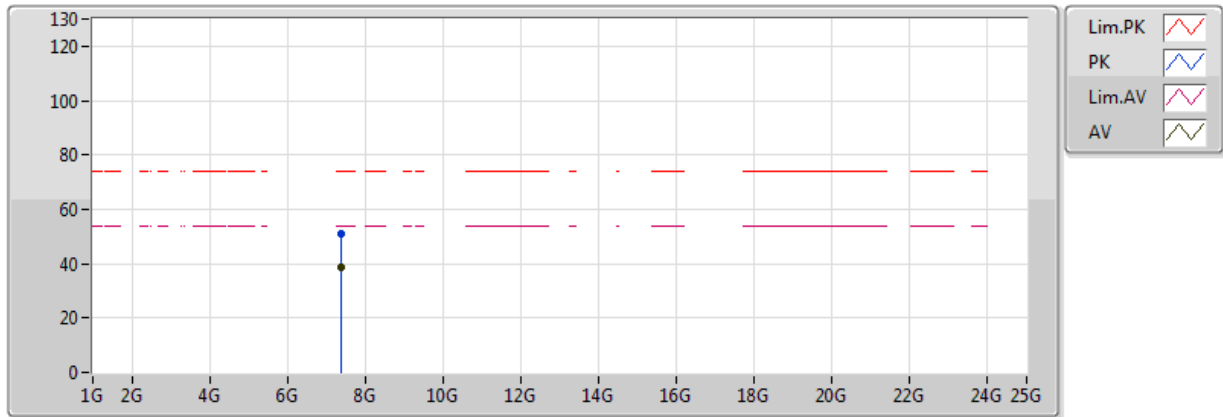


20170929
EUT Y_2TX
Setting 15.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4652G	96.03	Inf	-Inf	30.88	3	Horizontal	71	1.44					
AV	2.4836G	48.17	54.00	-5.83	30.86	3	Horizontal	71	1.44					
PK	2.4636G	106.58	Inf	-Inf	30.88	3	Horizontal	71	1.44					
PK	2.4838G	60.88	74.00	-13.12	30.86	3	Horizontal	71	1.44					

802.11ac VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

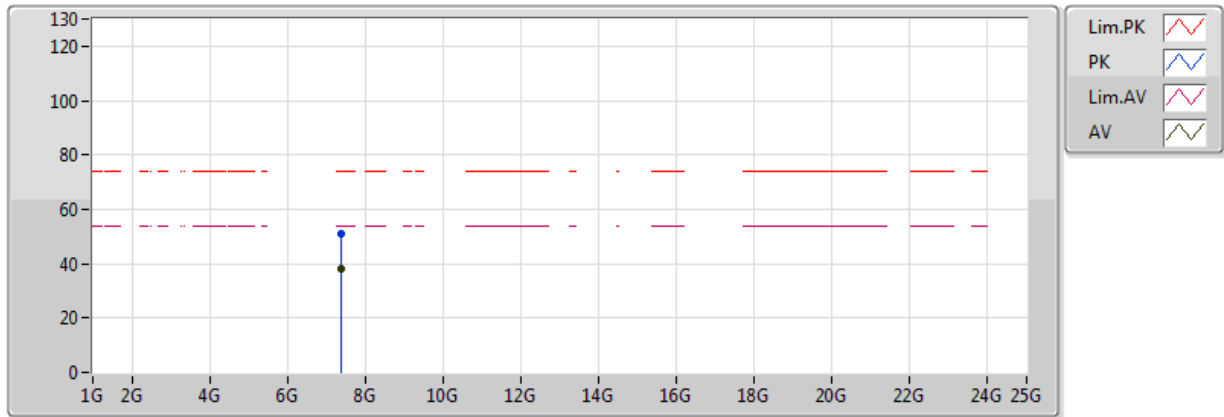


20170929
EUT Y_2TX
Setting 15.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.3812G	38.55	54.00	-15.45	8.94	3	Vertical	302	1.18					
PK	7.3798G	50.74	74.00	-23.26	8.94	3	Vertical	302	1.18					

802.11ac VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

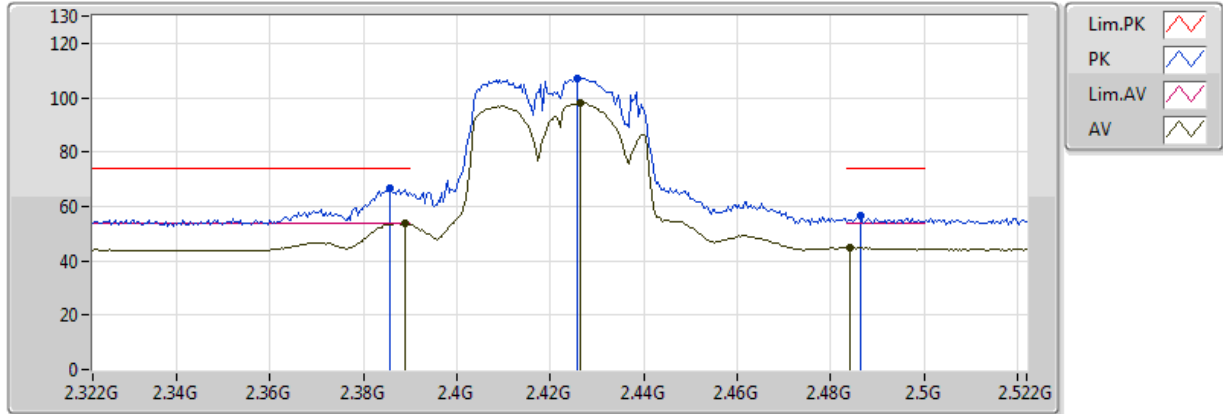


20170929
EUT_Y_2TX
Setting 15.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.3906G	38.00	54.00	-16.00	8.96	3	Horizontal	21	2.38					
PK	7.3823G	50.82	74.00	-23.18	8.95	3	Horizontal	21	2.38					

802.11ac VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

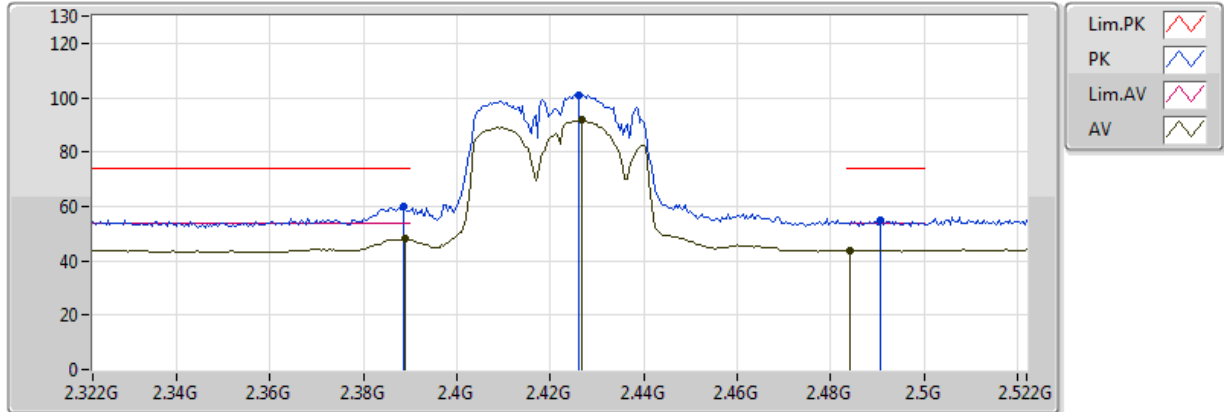


20170929
EUT Y_2TX
Setting 13.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3888G	53.88	54.00	-0.12	30.95	3	Vertical	194	1.52					
AV	2.4264G	98.02	Inf	-Inf	30.92	3	Vertical	194	1.52					
AV	2.484G	44.83	54.00	-9.17	30.86	3	Vertical	194	1.52					
PK	2.3856G	66.49	74.00	-7.51	30.96	3	Vertical	194	1.52					
PK	2.4256G	106.95	Inf	-Inf	30.92	3	Vertical	194	1.52					
PK	2.4864G	56.62	74.00	-17.38	30.86	3	Vertical	194	1.52					

802.11ac VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

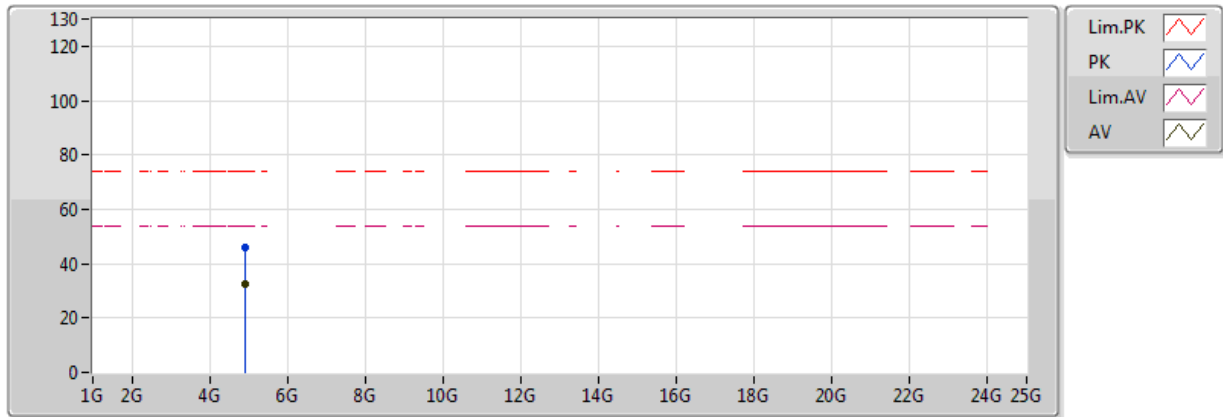


20170929
EUT Y_2TX
Setting 13.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3888G	48.09	54.00	-5.91	30.95	3	Horizontal	54	1.41					
AV	2.4268G	91.76	Inf	-Inf	30.92	3	Horizontal	54	1.41					
AV	2.484G	43.87	54.00	-10.13	30.86	3	Horizontal	54	1.41					
PK	2.3884G	59.69	74.00	-14.31	30.96	3	Horizontal	54	1.41					
PK	2.426G	101.01	Inf	-Inf	30.92	3	Horizontal	54	1.41					
PK	2.4908G	54.80	74.00	-19.20	30.86	3	Horizontal	54	1.41					

802.11ac VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

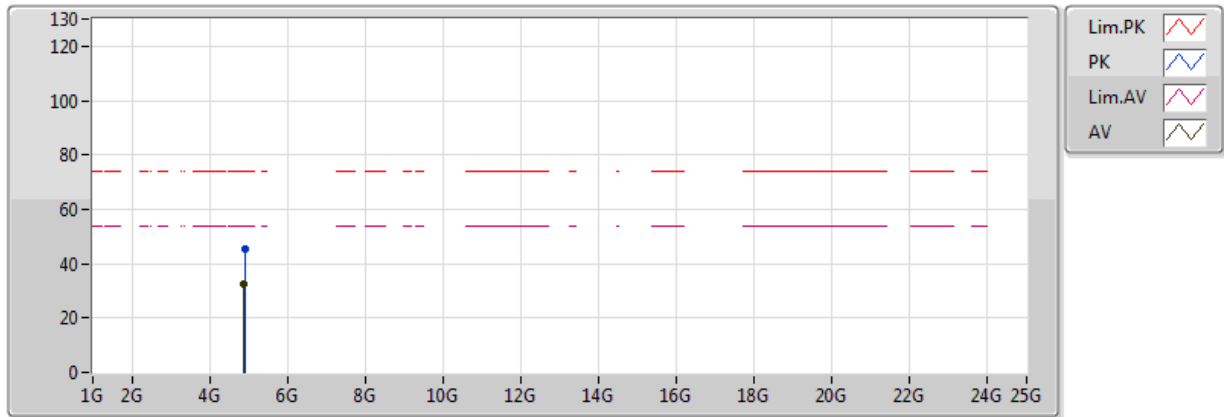


20170929
EUT_Y_2TX
Setting 13.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.9212G	32.48	54.00	-21.52	3.54	3	Vertical	66	1.76					
PK	4.9076G	45.76	74.00	-28.24	3.50	3	Vertical	66	1.76					

802.11ac VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

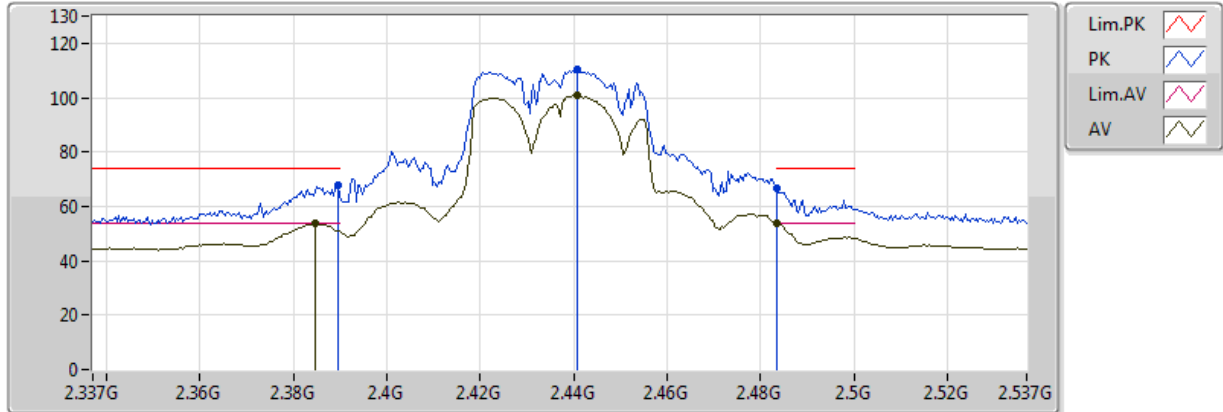


20170929
EUT_Y_2TX
Setting 13.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.89G	32.29	54.00	-21.71	3.44	3	Horizontal	294	1.66					
PK	4.9216G	45.45	74.00	-28.55	3.54	3	Horizontal	294	1.66					

802.11ac VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

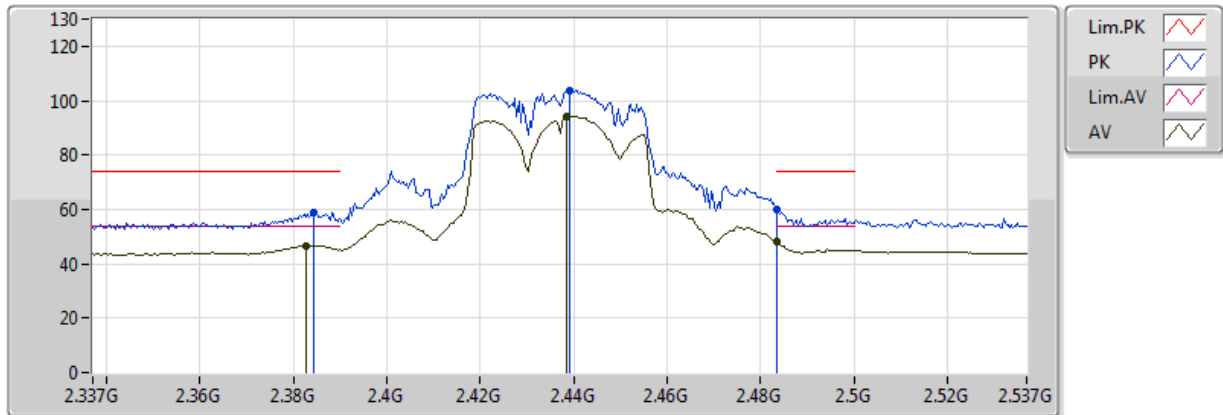


20170929
EUT Y_2TX
Setting 17
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3846G	53.82	54.00	-0.18	30.96	3	Vertical	189	1.89					
AV	2.4406G	100.63	Inf	-Inf	30.90	3	Vertical	189	1.89					
AV	2.483502G	53.91	54.00	-0.09	30.86	3	Vertical	189	1.89					
PK	2.3894G	67.65	74.00	-6.35	30.95	3	Vertical	189	1.89					
PK	2.4406G	110.19	Inf	-Inf	30.90	3	Vertical	189	1.89					
PK	2.483502G	66.73	74.00	-7.27	30.86	3	Vertical	189	1.89					

802.11ac VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

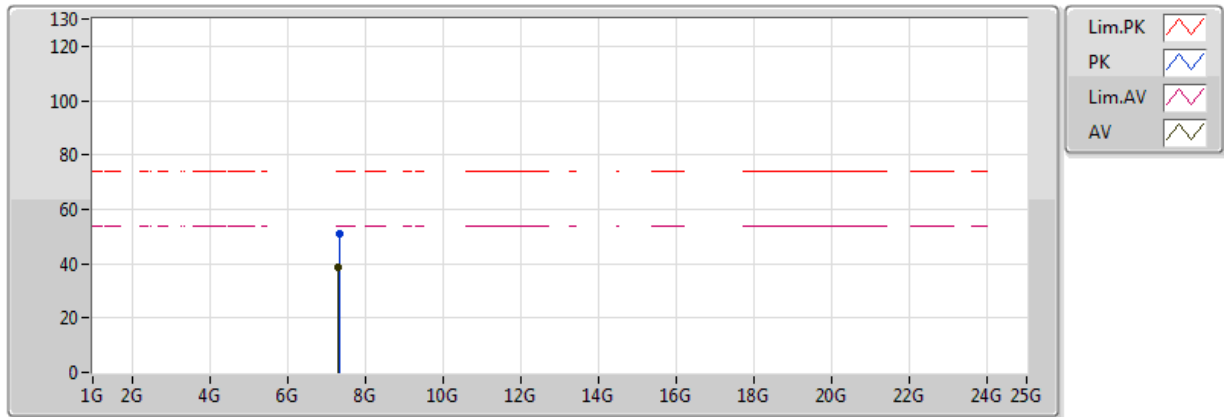


20170929
EUT Y_2TX
Setting 17
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3826G	46.77	54.00	-7.23	30.96	3	Horizontal	71	1.47					
AV	2.4386G	94.36	Inf	-Inf	30.91	3	Horizontal	71	1.47					
AV	2.483502G	48.09	54.00	-5.91	30.86	3	Horizontal	71	1.47					
PK	2.3842G	58.68	74.00	-15.32	30.96	3	Horizontal	71	1.47					
PK	2.439G	103.68	Inf	-Inf	30.90	3	Horizontal	71	1.47					
PK	2.483502G	60.10	74.00	-13.90	30.86	3	Horizontal	71	1.47					

802.11ac VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

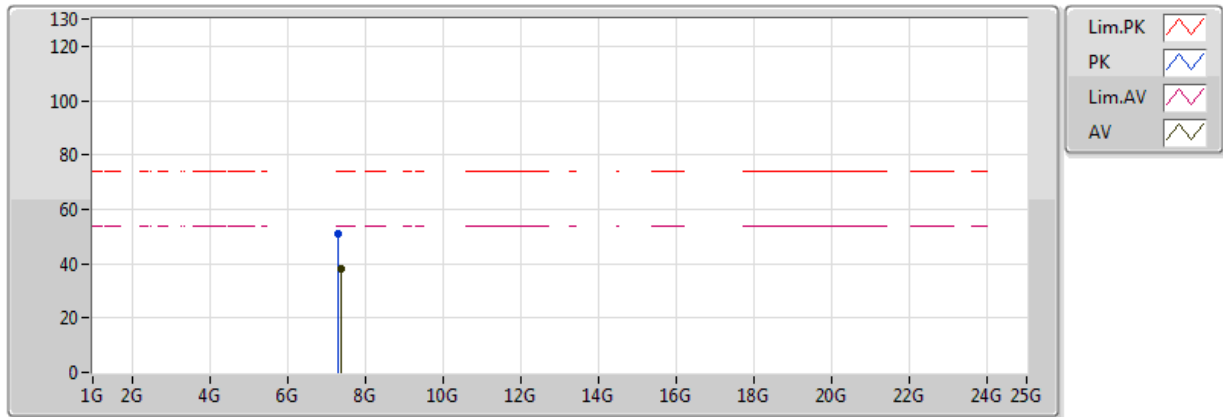


20170929
EUT_Y_2TX
Setting 17
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.309G	38.42	54.00	-15.58	8.84	3	Vertical	167	1.09					
PK	7.3258G	50.83	74.00	-23.17	8.87	3	Vertical	167	1.09					

802.11ac VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

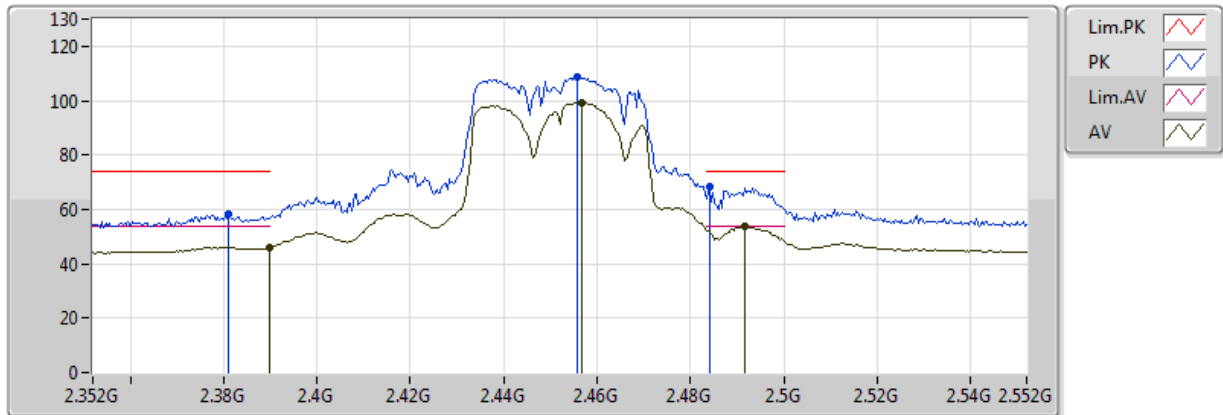


20170929
EUT Y_2TX
Setting 17
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.3834G	38.10	54.00	-15.90	8.95	3	Horizontal	116	1.38					
PK	7.3014G	51.26	74.00	-22.74	8.83	3	Horizontal	116	1.38					

802.11ac VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

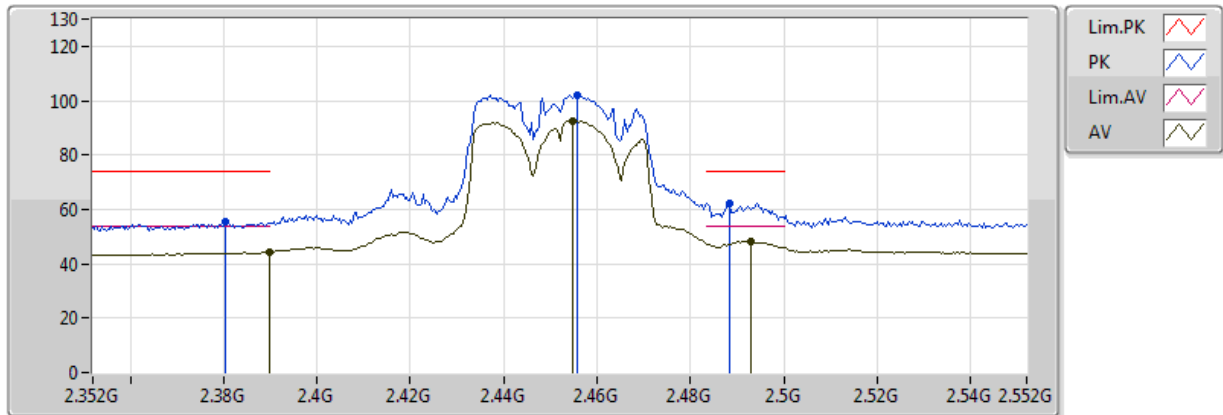


20170929
EUT Y_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	46.19	54.00	-7.81	30.95	3	Vertical	190	1.67					
AV	2.4568G	99.40	Inf	-Inf	30.89	3	Vertical	190	1.67					
AV	2.4916G	53.86	54.00	-0.14	30.86	3	Vertical	190	1.67					
PK	2.3812G	58.22	74.00	-15.78	30.96	3	Vertical	190	1.67					
PK	2.4556G	108.68	Inf	-Inf	30.89	3	Vertical	190	1.67					
PK	2.484G	68.13	74.00	-5.87	30.86	3	Vertical	190	1.67					

802.11ac VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

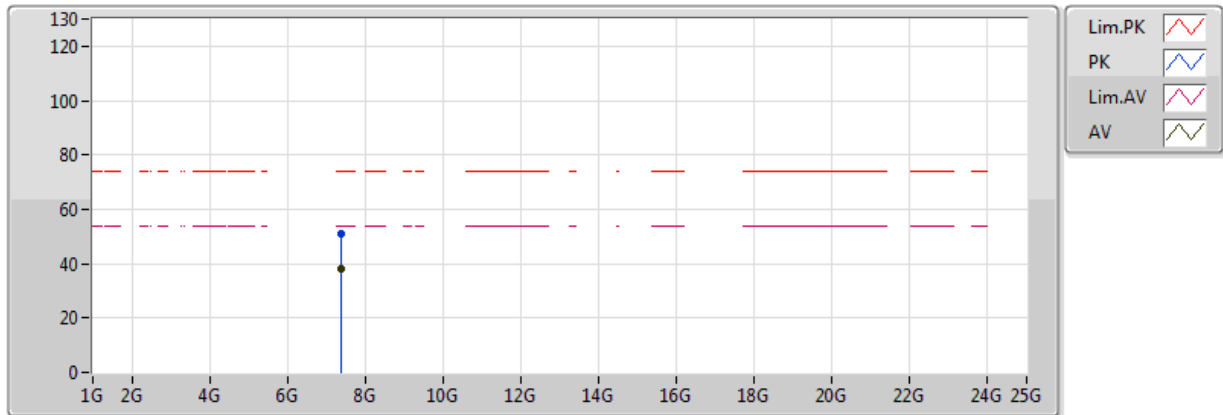


20170929
EUT Y_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	44.08	54.00	-9.92	30.95	3	Horizontal	46	1.02					
AV	2.4548G	92.40	Inf	-Inf	30.89	3	Horizontal	46	1.02					
AV	2.4928G	48.28	54.00	-5.72	30.86	3	Horizontal	46	1.02					
PK	2.3804G	55.36	74.00	-18.64	30.97	3	Horizontal	46	1.02					
PK	2.4556G	101.92	Inf	-Inf	30.89	3	Horizontal	46	1.02					
PK	2.4884G	62.19	74.00	-11.81	30.86	3	Horizontal	46	1.02					

802.11ac VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

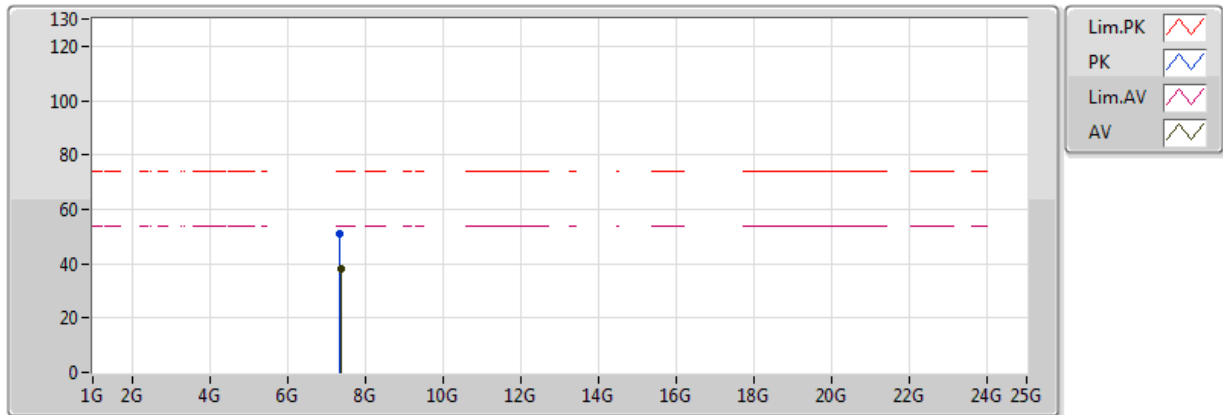


20170929
EUT Y_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.3715G	38.28	54.00	-15.72	8.93	3	Vertical	141	1.08					
PK	7.3734G	50.96	74.00	-23.04	8.93	3	Vertical	141	1.08					

802.11ac VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

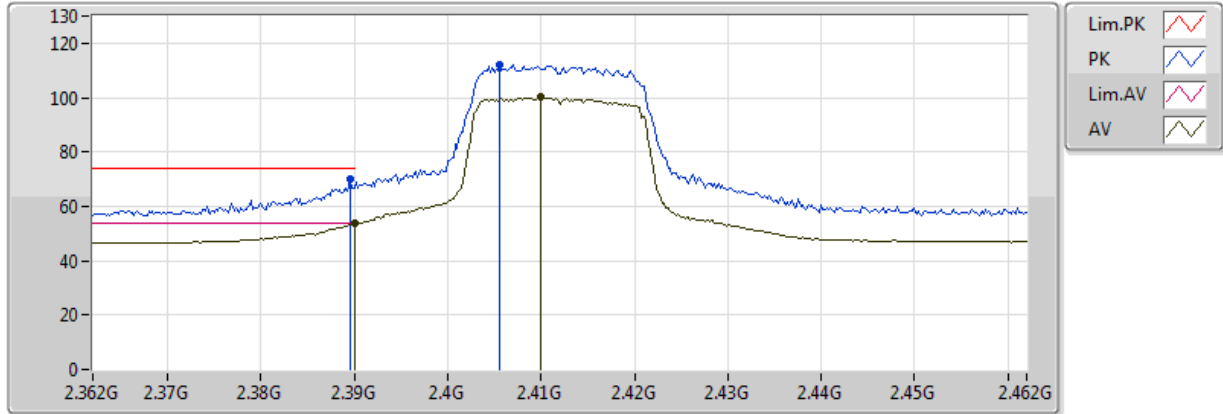


20170929
EUT Y_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.374G	38.03	54.00	-15.97	8.93	3	Horizontal	196	1.00					
PK	7.3577G	50.96	74.00	-23.04	8.91	3	Horizontal	196	1.00					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

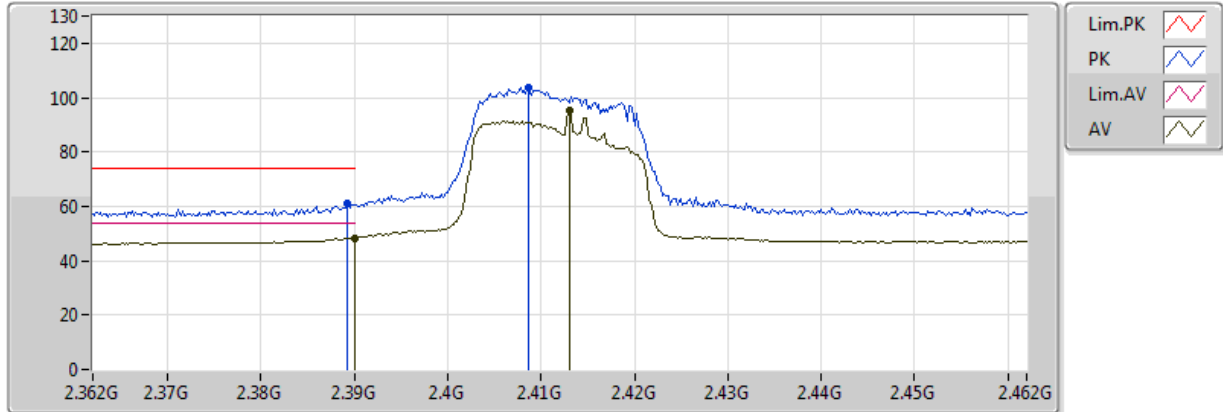


20171006
EUT Y_2TX
Setting 18
02-G-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.39G	53.52	54.00	-0.48	31.94	3	Vertical	170	2.58					
AV	2.41G	100.04	Inf	-Inf	32.00	3	Vertical	170	2.58					
PK	2.3896G	69.89	74.00	-4.11	31.94	3	Vertical	170	2.58					
PK	2.4056G	112.24	Inf	-Inf	31.99	3	Vertical	170	2.58					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

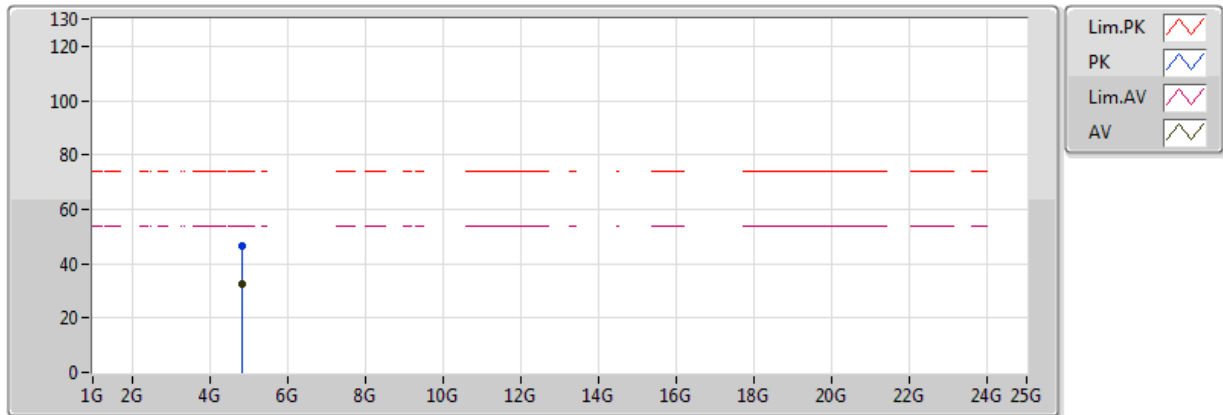


20171006
EUT Y_2TX
Setting 18
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	48.27	54.00	-5.73	31.94	3	Horizontal	218	1.39					
AV	2.413G	94.98	Inf	-Inf	32.01	3	Horizontal	218	1.39					
PK	2.3892G	61.12	74.00	-12.88	31.94	3	Horizontal	218	1.39					
PK	2.4086G	103.63	Inf	-Inf	32.00	3	Horizontal	218	1.39					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

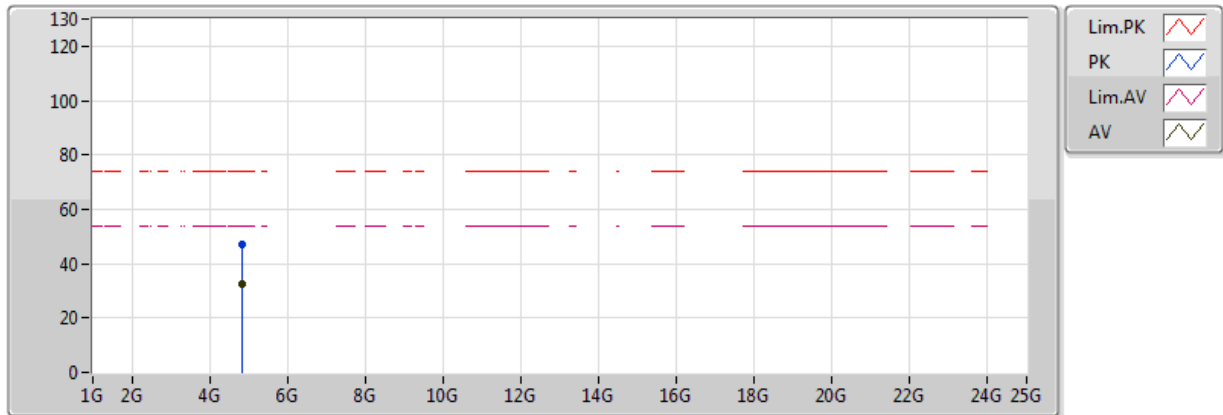


20171006
EUT_Y_2TX
Setting 18
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.82794G	32.67	54.00	-21.33	8.10	3	Vertical	31	1.68					
PK	4.82048G	46.57	74.00	-27.43	8.07	3	Vertical	31	1.68					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

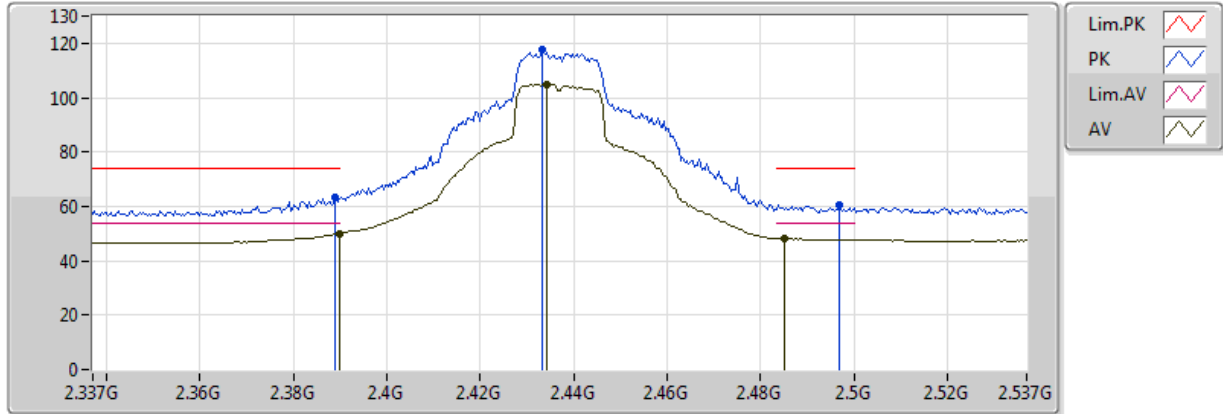


20171006
EUT_Y_2TX
Setting 18
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.82812G	32.55	54.00	-21.45	8.10	3	Horizontal	12	1.20					
PK	4.82736G	46.98	74.00	-27.02	8.09	3	Horizontal	12	1.20					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

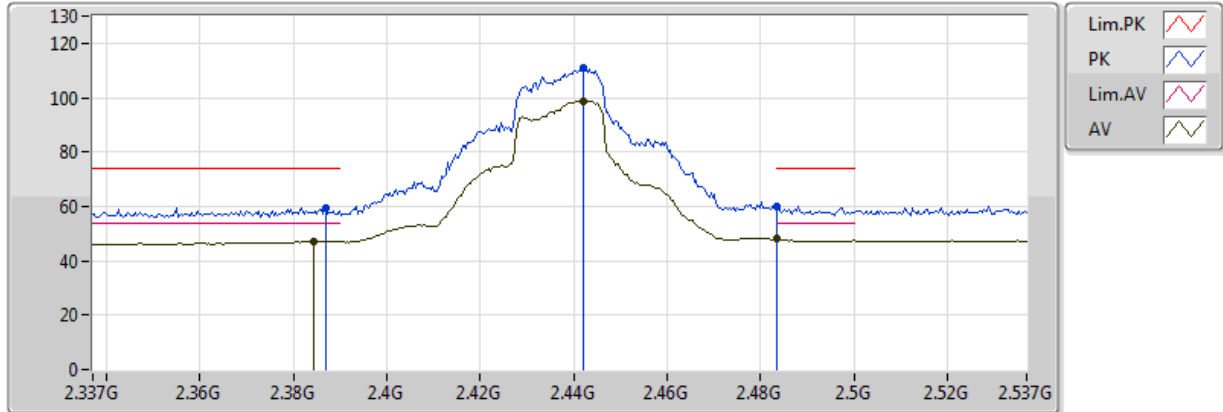


20171006
EUT Y_2TX
Setting 25
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	50.08	54.00	-3.92	31.94	3	Vertical	21	2.09					
AV	2.4342G	104.99	Inf	-Inf	32.07	3	Vertical	21	2.09					
AV	2.485G	48.12	54.00	-5.88	32.23	3	Vertical	21	2.09					
PK	2.389G	63.10	74.00	-10.90	31.94	3	Vertical	21	2.09					
PK	2.4334G	117.56	Inf	-Inf	32.07	3	Vertical	21	2.09					
PK	2.497G	60.49	74.00	-13.51	32.26	3	Vertical	21	2.09					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

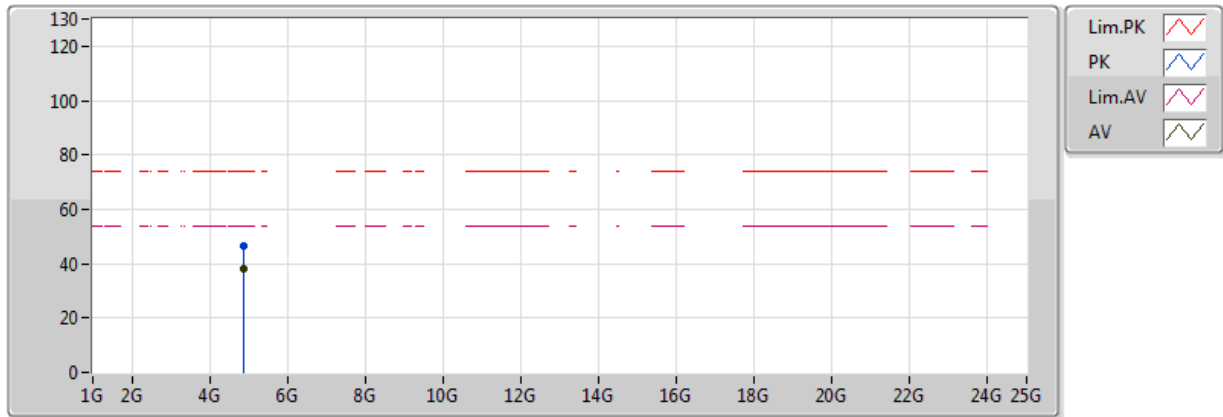


20171006
EUT Y_2TX
Setting 25
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3842G	47.02	54.00	-6.98	31.92	3	Horizontal	219	1.59					
AV	2.4422G	98.75	Inf	-Inf	32.10	3	Horizontal	219	1.59					
AV	2.483502G	47.92	54.00	-6.08	32.22	3	Horizontal	219	1.59					
PK	2.387G	59.36	74.00	-14.64	31.93	3	Horizontal	219	1.59					
PK	2.4422G	111.18	Inf	-Inf	32.10	3	Horizontal	219	1.59					
PK	2.483502G	59.83	74.00	-14.17	32.22	3	Horizontal	219	1.59					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

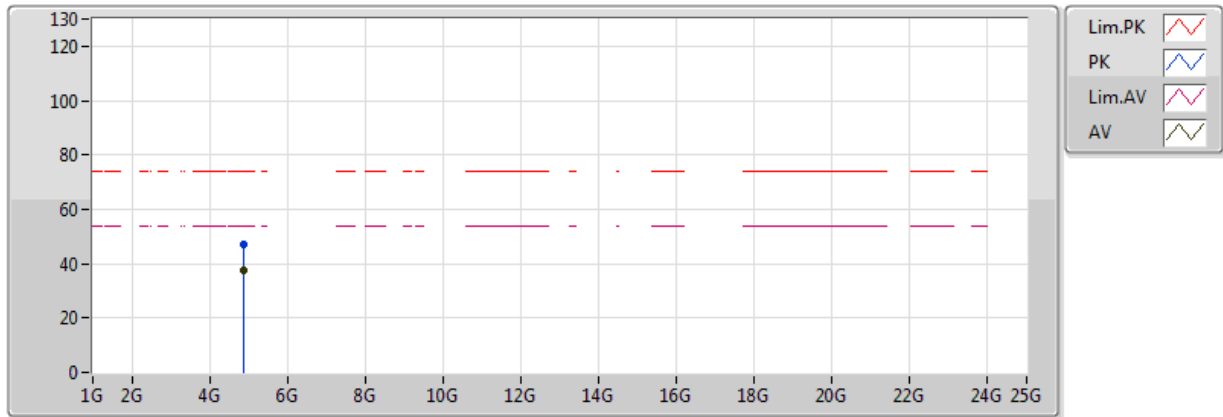


20171006
EUT Y_2TX
Setting 25
02-G-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.87398G	37.91	54.00	-16.09	8.24	3	Vertical	38	1.68					
PK	4.87262G	46.34	74.00	-27.66	8.24	3	Vertical	38	1.68					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

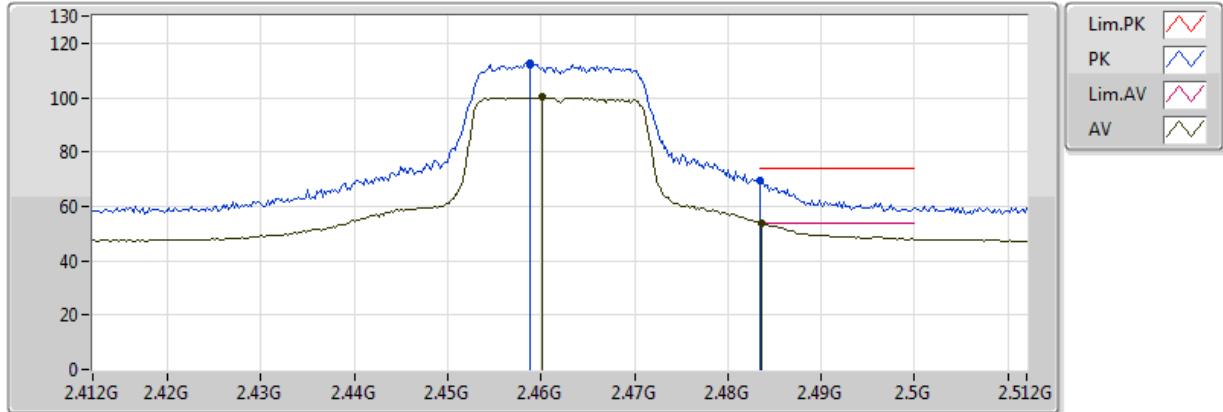


20171006
EUT Y_2TX
Setting 25
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.87424G	37.43	54.00	-16.57	8.24	3	Horizontal	140	2.48					
PK	4.87394G	47.19	74.00	-26.81	8.24	3	Horizontal	140	2.48					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

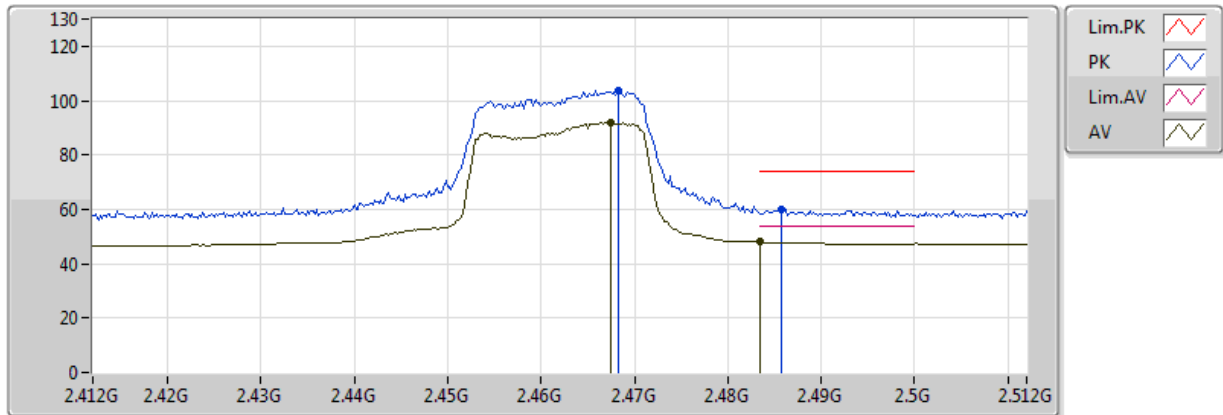


20171006
EUT Y_2TX
Setting 19
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4602G	100.11	Inf	-Inf	32.15	3	Vertical	294	1.87					
AV	2.4836G	53.87	54.00	-0.13	32.22	3	Vertical	294	1.87					
PK	2.4588G	112.67	Inf	-Inf	32.15	3	Vertical	294	1.87					
PK	2.483502G	69.28	74.00	-4.72	32.22	3	Vertical	294	1.87					

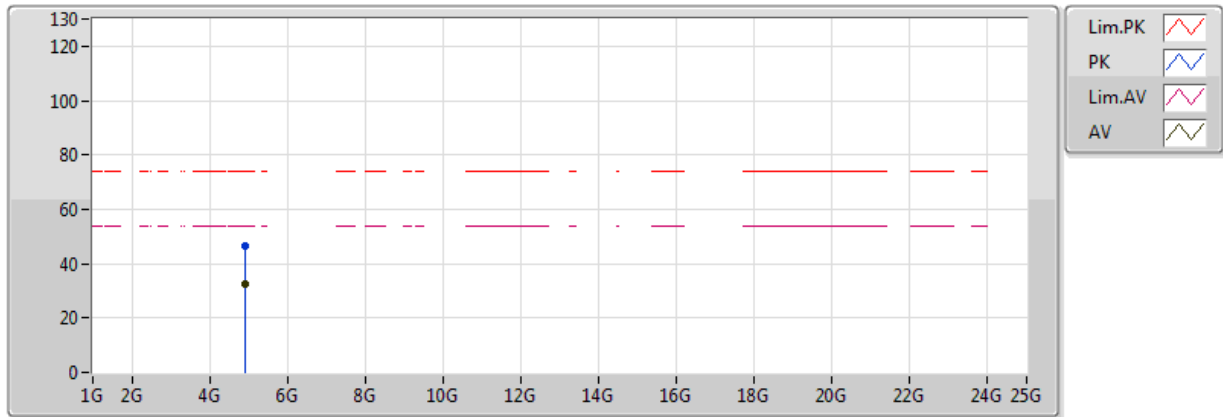
802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

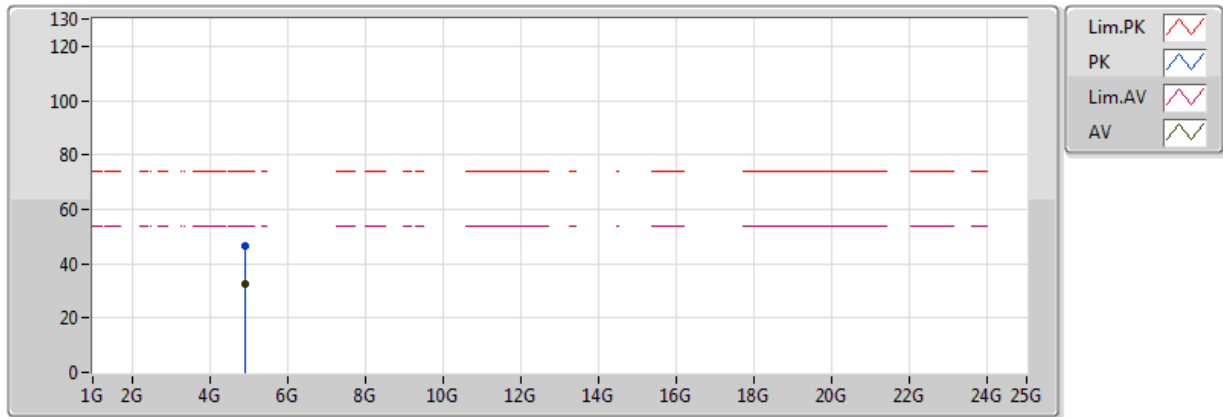


20171006
EUT Y_2TX
Setting 19
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.92774G	32.52	54.00	-21.48	8.41	3	Vertical	20	1.04					
PK	4.92044G	46.63	74.00	-27.37	8.38	3	Vertical	20	1.04					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

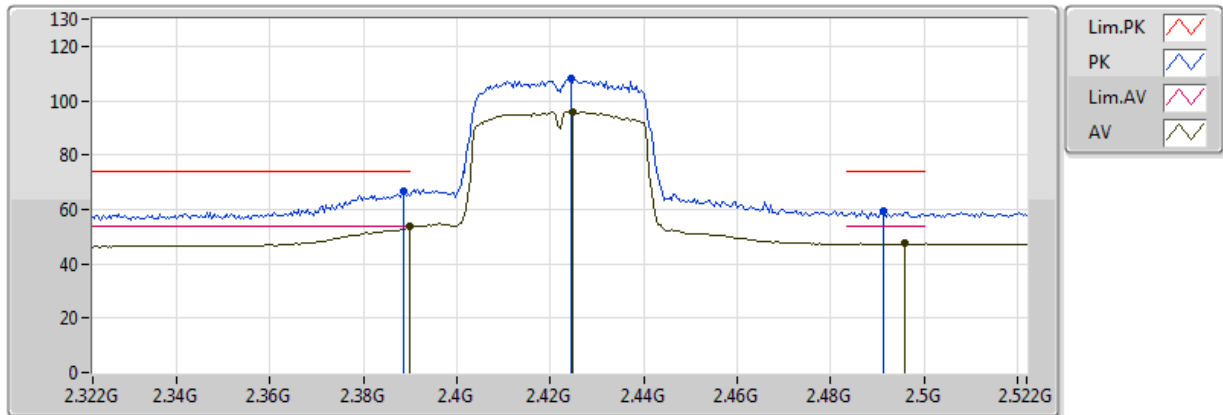


20171006
EUT Y_2TX
Setting 19
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.92786G	32.61	54.00	-21.39	8.41	3	Horizontal	25	2.01					
PK	4.92808G	46.33	74.00	-27.67	8.41	3	Horizontal	25	2.01					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

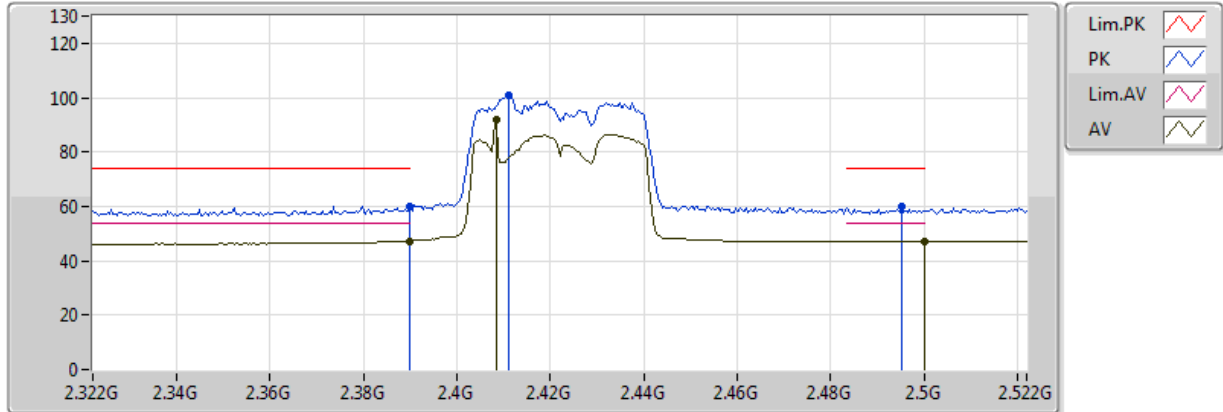


20171006
EUT Y_2TX
Setting 16
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	53.53	54.00	-0.47	31.94	3	Vertical	304	2.27					
AV	2.4248G	95.80	Inf	-Inf	32.04	3	Vertical	304	2.27					
AV	2.496G	47.43	54.00	-6.57	32.26	3	Vertical	304	2.27					
PK	2.3884G	66.44	74.00	-7.56	31.93	3	Vertical	304	2.27					
PK	2.4244G	107.98	Inf	-Inf	32.04	3	Vertical	304	2.27					
PK	2.4912G	59.19	74.00	-14.81	32.24	3	Vertical	304	2.27					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

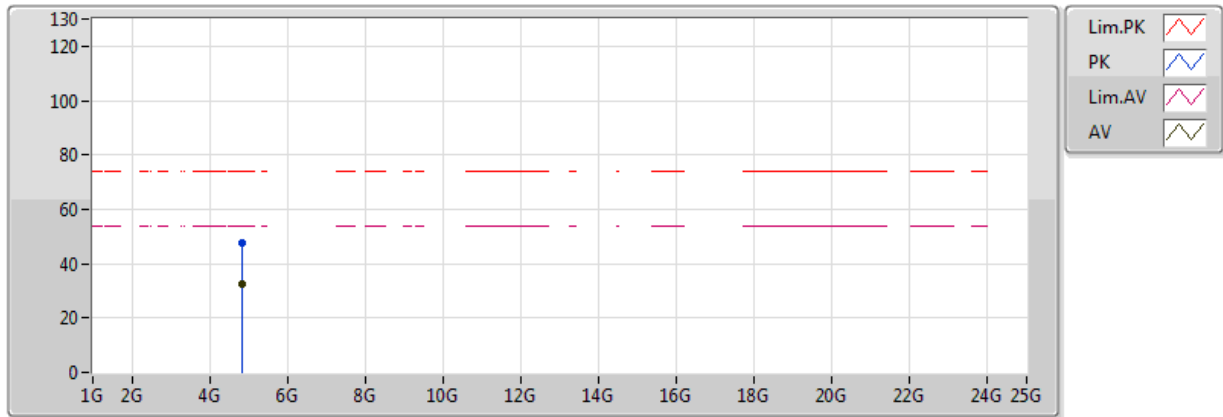


20171006
EUT Y_2TX
Setting 16
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	47.27	54.00	-6.73	31.94	3	Horizontal	163	1.45					
AV	2.4084G	92.02	Inf	-Inf	32.00	3	Horizontal	163	1.45					
AV	2.5G	47.11	54.00	-6.89	32.27	3	Horizontal	163	1.45					
PK	2.39G	60.13	74.00	-13.87	31.94	3	Horizontal	163	1.45					
PK	2.4112G	101.14	Inf	-Inf	32.00	3	Horizontal	163	1.45					
PK	2.4952G	60.00	74.00	-14.00	32.26	3	Horizontal	163	1.45					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

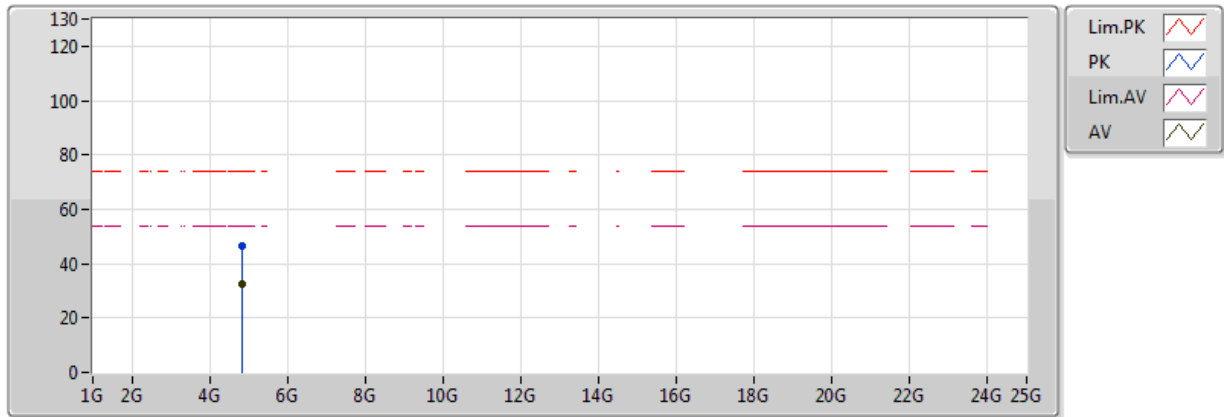


20171006
EUT Y_2TX
Setting 16
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.83916G	32.70	54.00	-21.30	8.13	3	Vertical	111	1.51					
PK	4.83908G	47.51	74.00	-26.49	8.13	3	Vertical	111	1.51					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

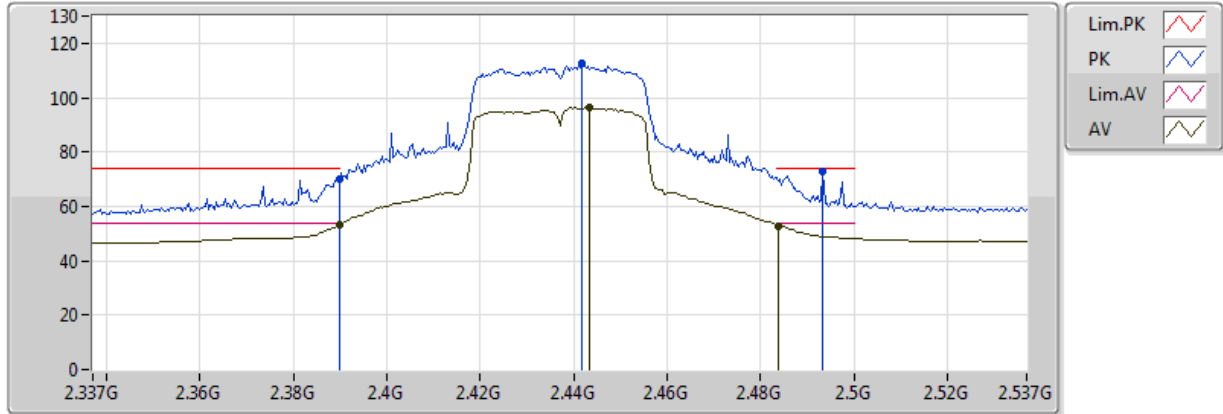


20171006
EUT Y_2TX
Setting 16
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.84102G	32.55	54.00	-21.45	8.14	3	Horizontal	343	2.11					
PK	4.8462G	46.41	74.00	-27.59	8.15	3	Horizontal	343	2.11					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

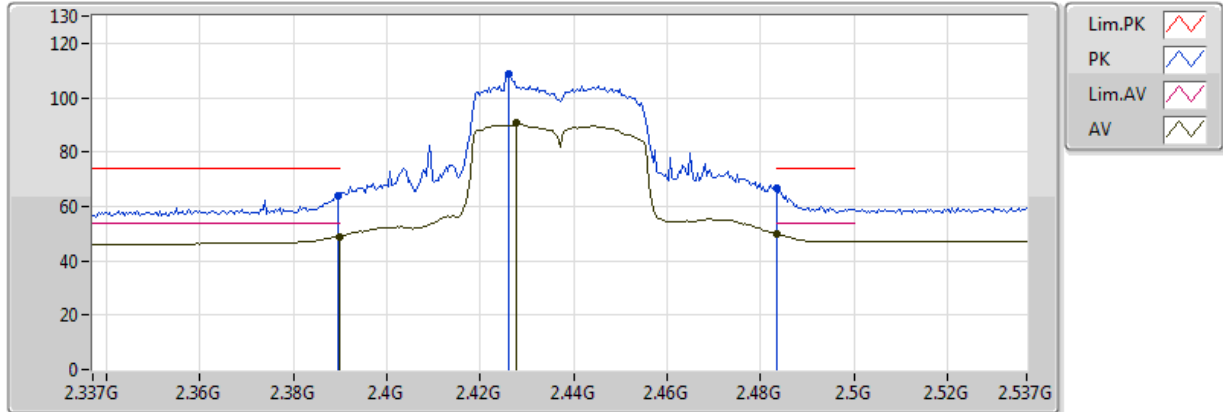


20171006
EUT Y_2TX
Setting 25
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	53.50	54.00	-0.50	31.94	3	Vertical	198	1.86					
AV	2.4434G	96.36	Inf	-Inf	32.10	3	Vertical	198	1.86					
AV	2.4838G	52.77	54.00	-1.23	32.22	3	Vertical	198	1.86					
PK	2.389998G	69.81	74.00	-4.19	31.94	3	Vertical	198	1.86					
PK	2.4418G	112.44	Inf	-Inf	32.10	3	Vertical	198	1.86					
PK	2.4934G	72.95	74.00	-1.05	32.25	3	Vertical	198	1.86					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

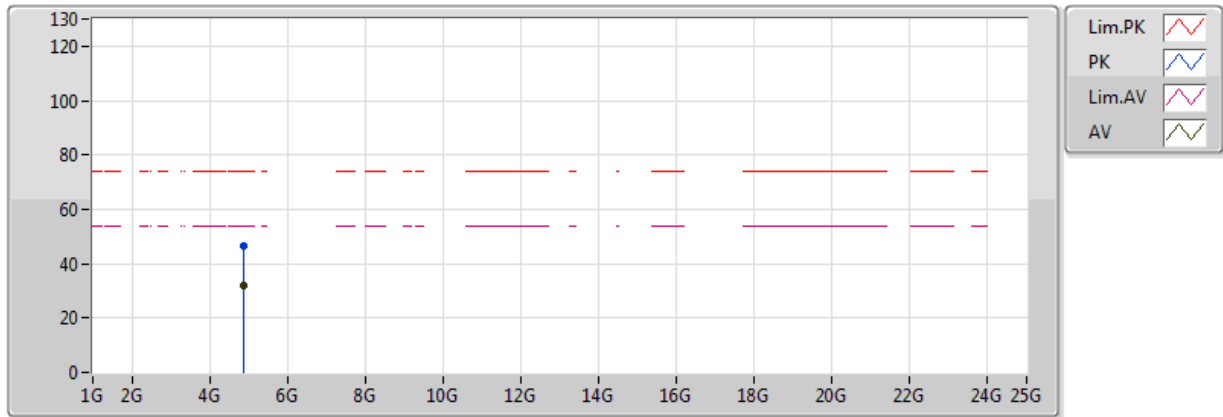


20171006
EUT Y_2TX
Setting 25
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	49.02	54.00	-4.98	31.94	3	Horizontal	37	2.46					
AV	2.4278G	90.63	Inf	-Inf	32.05	3	Horizontal	37	2.46					
AV	2.483502G	49.82	54.00	-4.18	32.22	3	Horizontal	37	2.46					
PK	2.3894G	63.93	74.00	-10.07	31.94	3	Horizontal	37	2.46					
PK	2.4262G	108.62	Inf	-Inf	32.05	3	Horizontal	37	2.46					
PK	2.483502G	66.67	74.00	-7.33	32.22	3	Horizontal	37	2.46					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

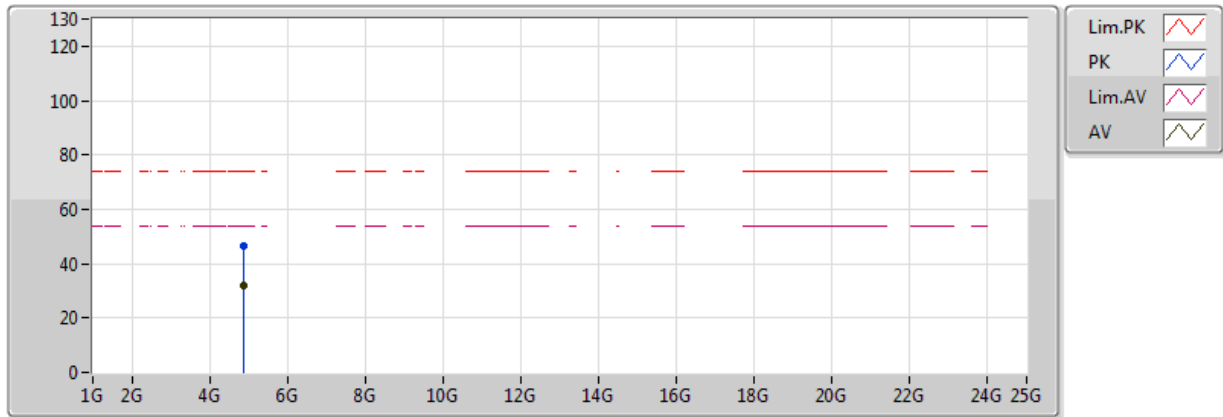


20171006
EUT Y_2TX
Setting 25
02-G-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.87278G	32.19	54.00	-21.81	8.24	3	Vertical	63	2.29					
PK	4.87152G	46.51	74.00	-27.49	8.23	3	Vertical	63	2.29					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

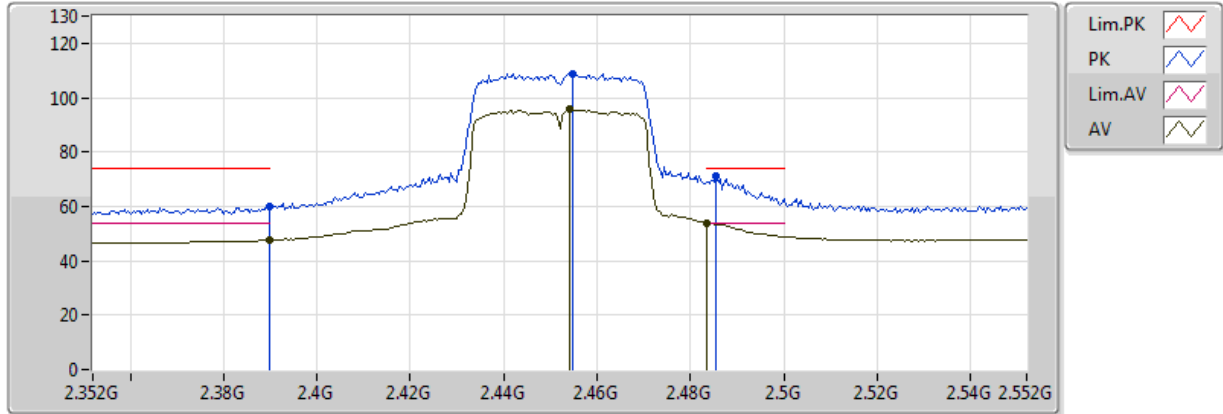


20171006
EUT Y_2TX
Setting 25
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.8727G	32.16	54.00	-21.84	8.24	3	Horizontal	95	2.17					
PK	4.87278G	46.61	74.00	-27.39	8.24	3	Horizontal	95	2.17					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

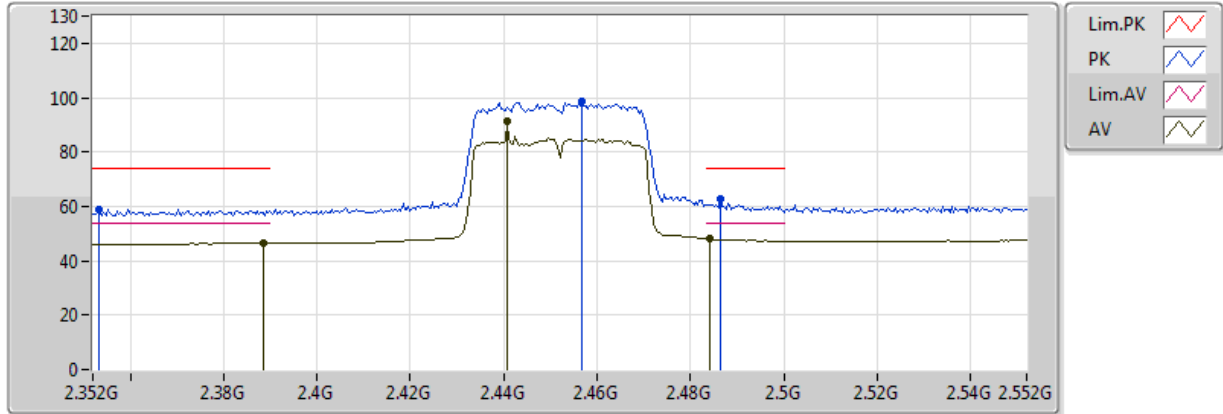


20171006
EUT Y_2TX
Setting 18
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	47.57	54.00	-6.43	31.94	3	Vertical	186	2.04					
AV	2.454G	95.55	Inf	-Inf	32.13	3	Vertical	186	2.04					
AV	2.4836G	53.79	54.00	-0.21	32.22	3	Vertical	186	2.04					
PK	2.39G	59.73	74.00	-14.27	31.94	3	Vertical	186	2.04					
PK	2.4548G	108.88	Inf	-Inf	32.13	3	Vertical	186	2.04					
PK	2.4856G	70.94	74.00	-3.06	32.23	3	Vertical	186	2.04					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

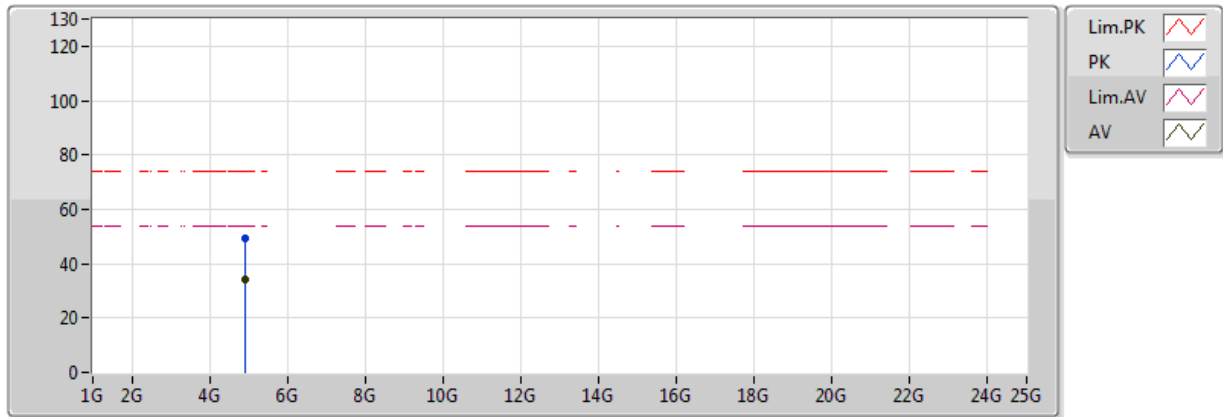


20171006
EUT Y_2TX
Setting 18
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3884G	46.47	54.00	-7.53	31.93	3	Horizontal	317	1.76					
AV	2.4408G	91.48	Inf	-Inf	32.09	3	Horizontal	317	1.76					
AV	2.484G	48.11	54.00	-5.89	32.22	3	Horizontal	317	1.76					
PK	2.3532G	58.90	74.00	-15.10	31.82	3	Horizontal	317	1.76					
PK	2.4568G	98.41	Inf	-Inf	32.14	3	Horizontal	317	1.76					
PK	2.4864G	62.73	74.00	-11.27	32.23	3	Horizontal	317	1.76					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

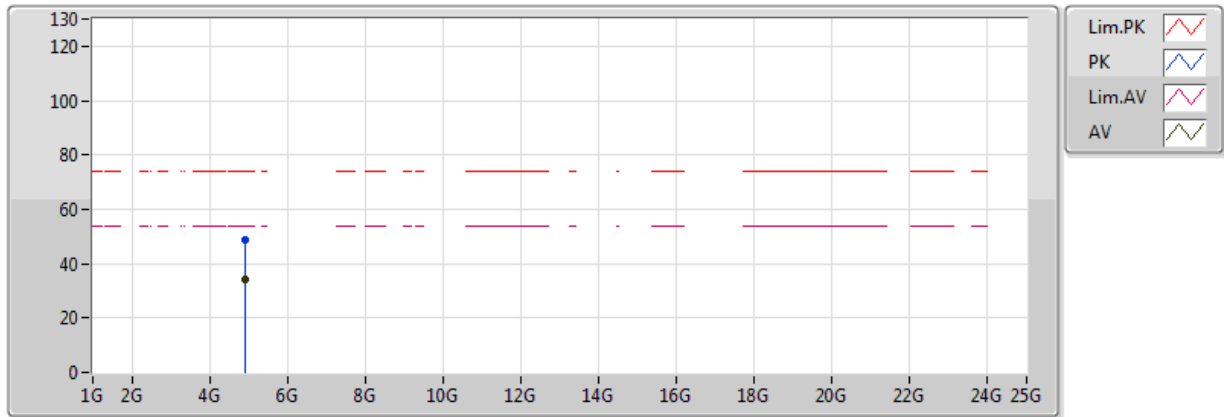


20171006
EUT_Y_2TX
Setting 18
02-G-2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.90392G	34.25	54.00	-19.75	8.33	3	Vertical	248	2.76					
PK	4.9039G	49.26	74.00	-24.74	8.33	3	Vertical	248	2.76					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX



20171006
EUT Y_2TX
Setting 18
02-G-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.9041G	33.96	54.00	-20.04	8.33	3	Horizontal	225	1.33					
PK	4.90384G	48.82	74.00	-25.18	8.33	3	Horizontal	225	1.33					