

NCC Test Report

Equipment : BANDOTT 無線 Mesh 路由器
Brand Name : Ubee
Model No. : 95.2224T
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. 28, 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.

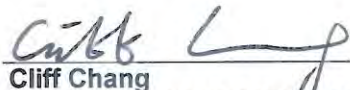

Cliff Chang
SPORTON INTERNATIONAL INC.



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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



SPORTON INTERNATIONAL INC.
TEL : 886-3-3273456
FAX : 886-3-3270973

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	Foxconn	SSP-15772	PIFA Antenna	I-PEX	3.37	4.08	-
2	2	Foxconn	SSP-15772	PIFA Antenna	I-PEX	3.16	4.32	-
3	1	Foxconn	N/A	Chip Antenna	N/A	-	-	2.73

Note: The EUT has three of 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	0.991	0.039	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.963	0.164	2.068m	1k
802.11ac VHT20	0.988	0.052	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20-BF	0.912	0.4	1.815m	1k
802.11ac VHT40	0.968	0.141	2.44m	1k
802.11ac VHT40-BF	0.923	0.348	1.75m	1k

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming for in IEEE 802.11 n/ac in 2.4GHz/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	Brian Sun	22°C / 54%	Sep. 30, 2017 ~ Oct. 07, 2017
Radiated	03CH01-CB	Welson Chen	22°C / 54%	Sep. 28, 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 x10 ⁻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
2437MHz	21
2462MHz	20.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	15
2437MHz	23
2462MHz	16
802.11ac VHT20_Nss1,(MCS0)_2TX	-
2412MHz	16
2437MHz	22.5
2462MHz	15
802.11ac VHT40_Nss1,(MCS0)_2TX	-
2422MHz	15
2437MHz	16.5
2452MHz	14.5
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
2412MHz	19
2437MHz	25
2462MHz	20
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
2422MHz	18
2437MHz	20
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, one is beamforming mode, and the other is non-beamforming mode for 802.11n/ac. All test results were recorded in the report.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Intentional-CTX
1	CTX-EUT (2.4G)
2	CTX-EUT (5G)
3	CTX-EUT (BT)
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode	Unintentional-CRX
1	CRX-EUT (2.4G)
2	CRX-EUT (5G)
3	CRX-EUT (BT)
For operating mode 1 is the worst case and it was record in this test report.	

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

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

Operating Mode > 1GHz	Unintentional-CRX 1GHz~5 th :
1	CRX- EUT in Z axis (2.4G)
2	CRX- EUT in Z axis (5G)
3	CRX- EUT in Z axis (BT)
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	Intentional-CTX 1GHz~10 th :
1	CTX- EUT in Z axis (2.4G)

Note: The EUT can only use Z 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 "Lantest.exe" 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

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	Ktec	KSAS0181200135VU	INPUT: 100-240V ~ 50/60Hz, 0.5A OUTPUT: 12V, 1.35A
Other			
RJ-45 cable*1, non-shielded, 2m			

2.5 Support Equipment

For Test Site No: CO01-CB / Intentional-CTX and Unintentional-CRX

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	DoC

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

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

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

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

For non-beamforming mode

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

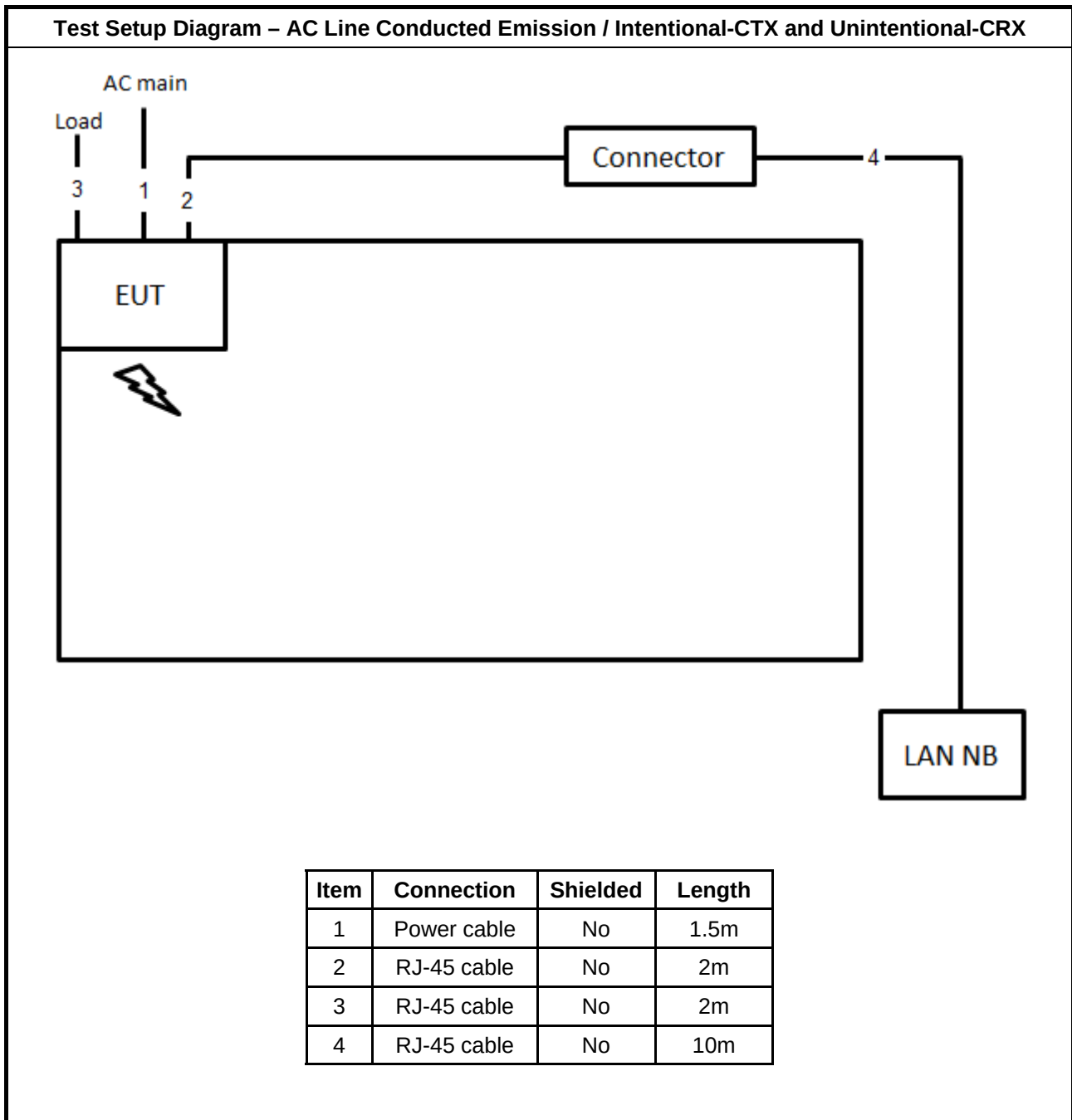
For beamforming mode

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	DoC
2	RX Device	Amped Wireless	AC1200 Repeater Router	N/A

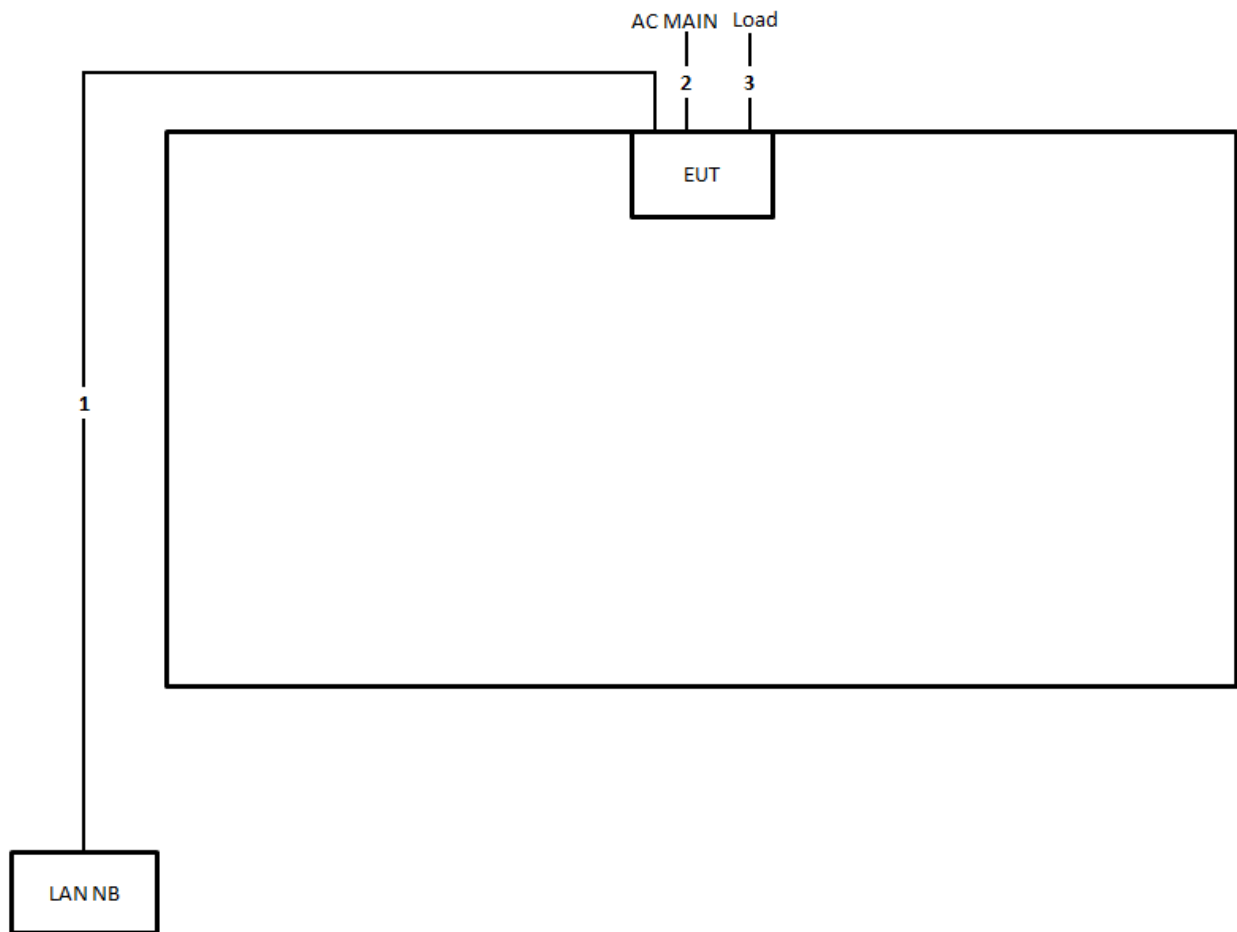
For Test Site No: TH01-CB

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

2.6 Test Setup Diagram

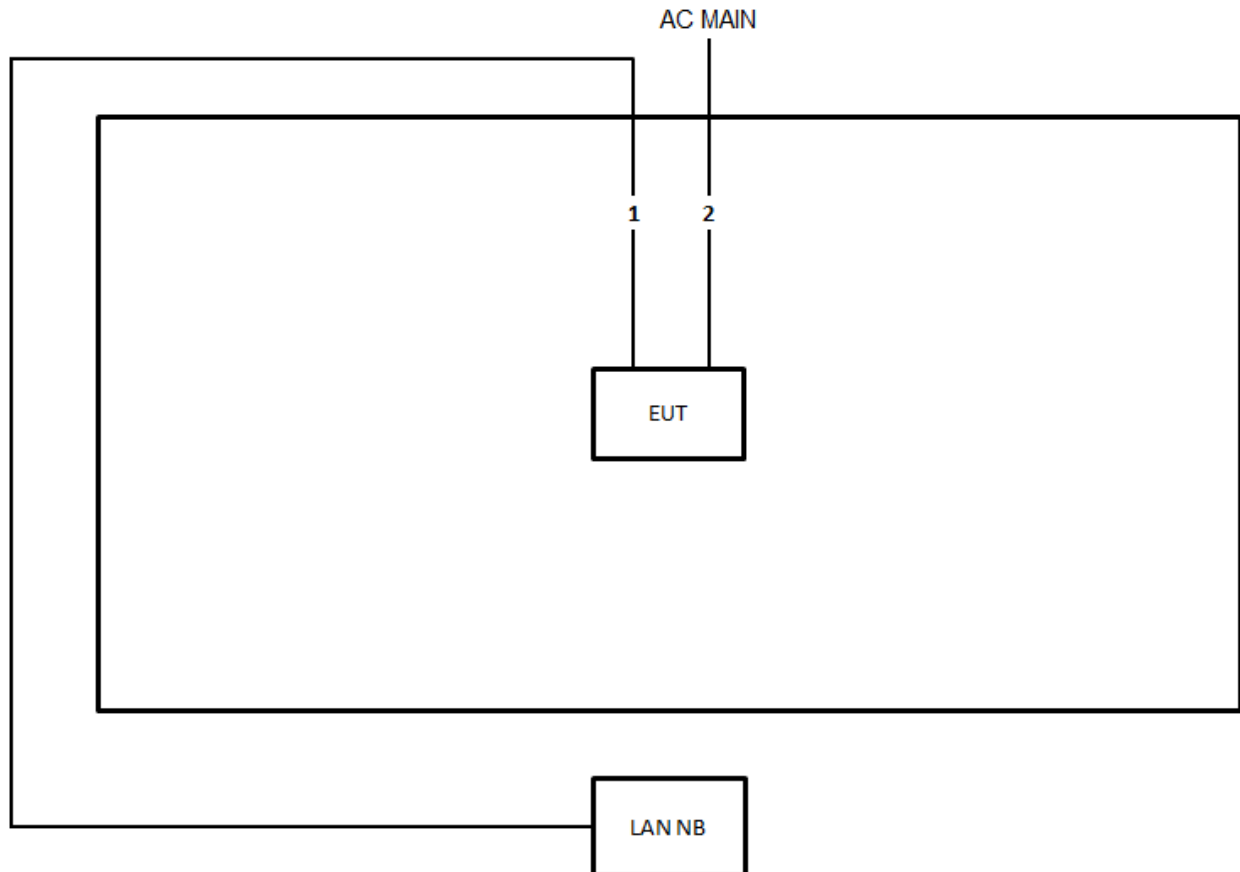


**Test Setup Diagram - Radiated Test < 1GHz / Intentional-CTX and Unintentional-CRX /
Radiated Test > 1GHz / Unintentional-CRX 1GHz~5th**



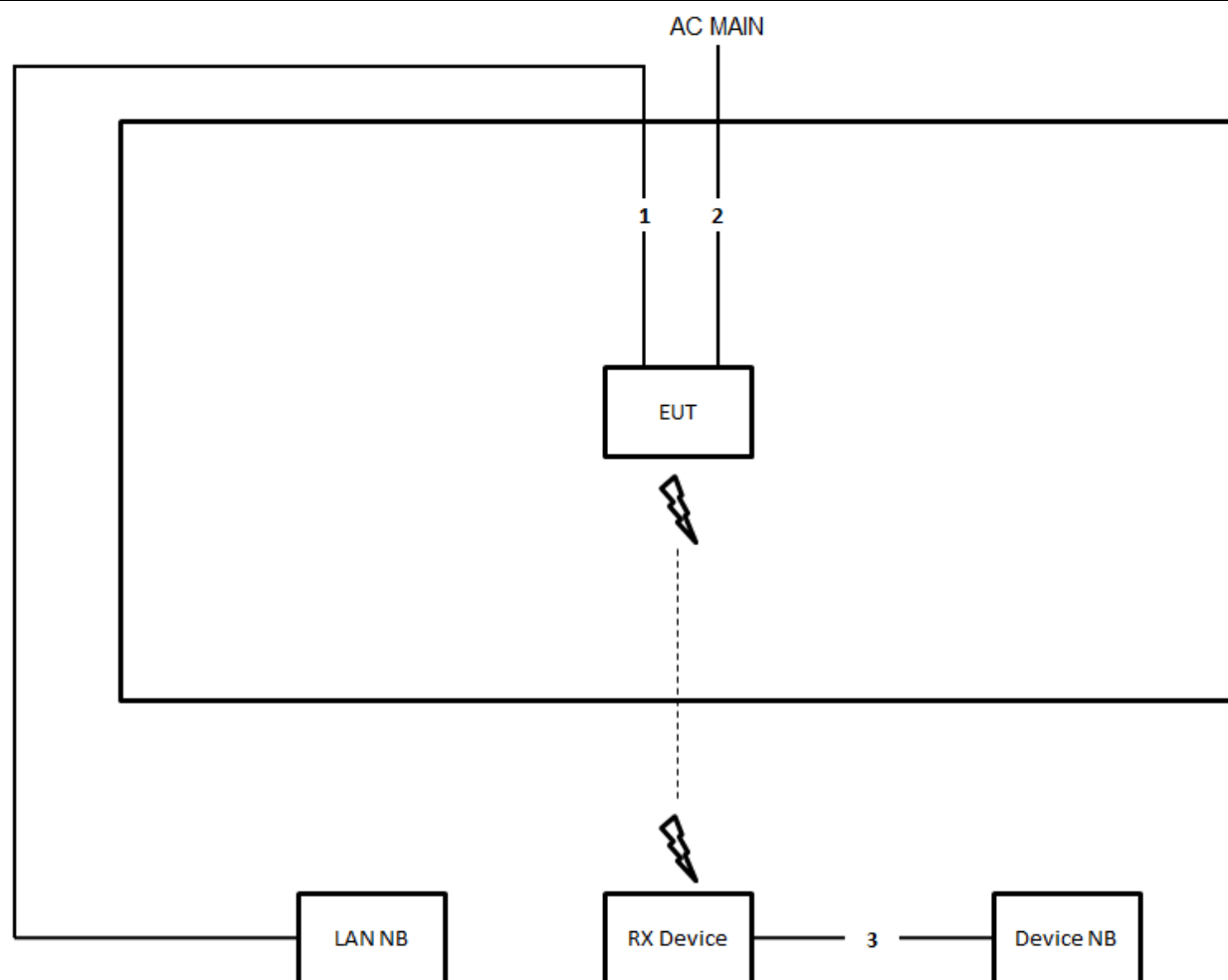
Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.5m
3	RJ-45 cable	No	2m

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	1.5m

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	1.5m
3	RJ-45 cable	No	1.5m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

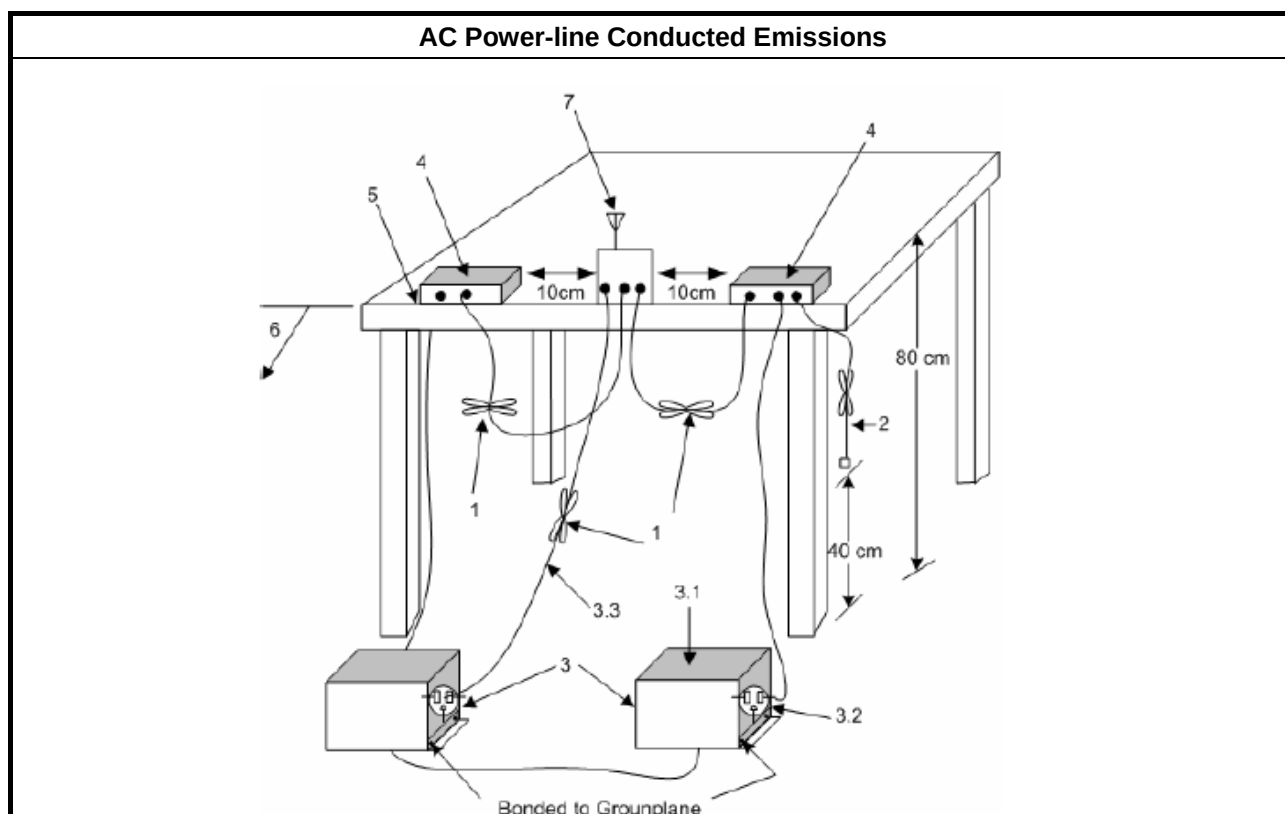
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup





3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

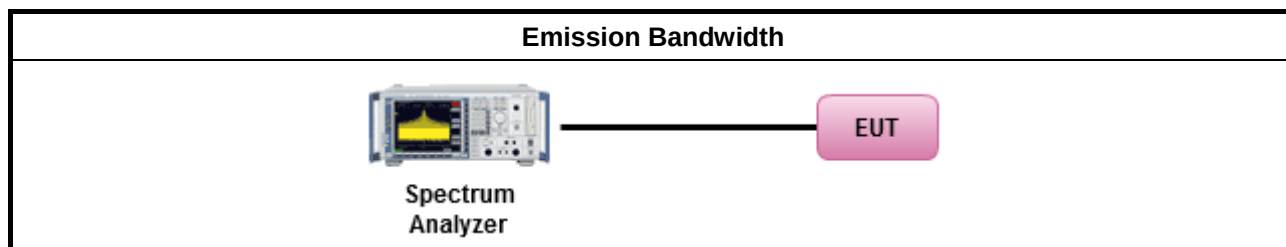
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

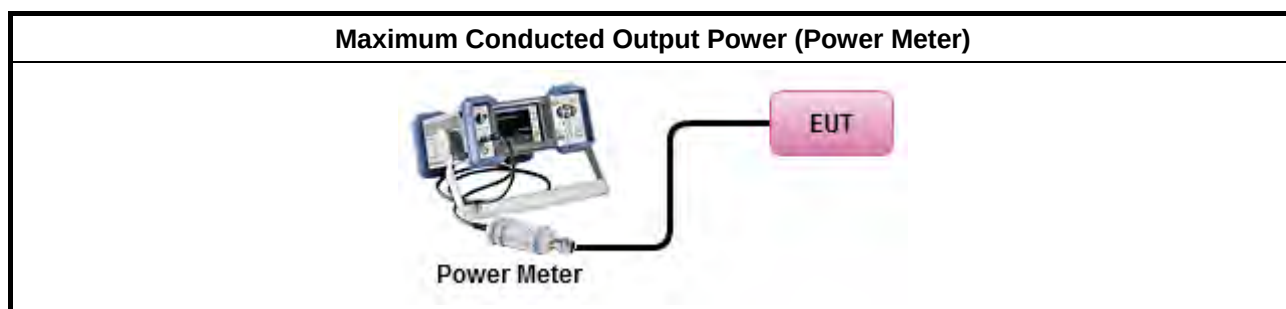
3.3.2 Measuring Instruments

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) ≤ 8 dBm/3kHz

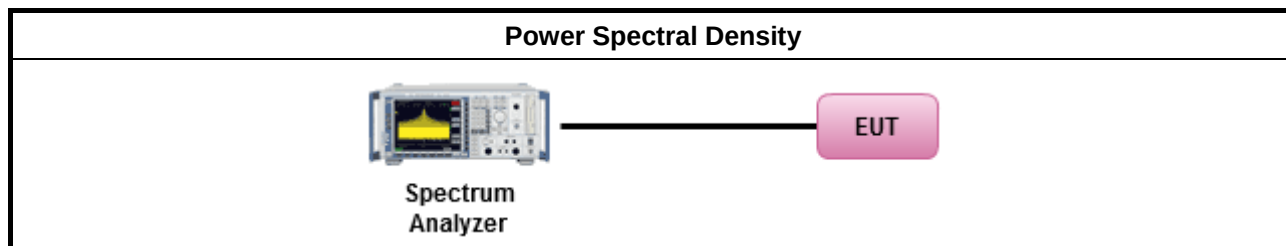
3.4.2 Measuring Instruments

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 AVGPS-1 (spectral trace averaging).
☐ Refer as FCC KDB 558074, clause 10.4 Method AVGPS-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 AVGPS-1 Alt (spectral trace averaging).
☐ Refer as FCC KDB 558074, clause 10.6 Method AVGPS-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.	

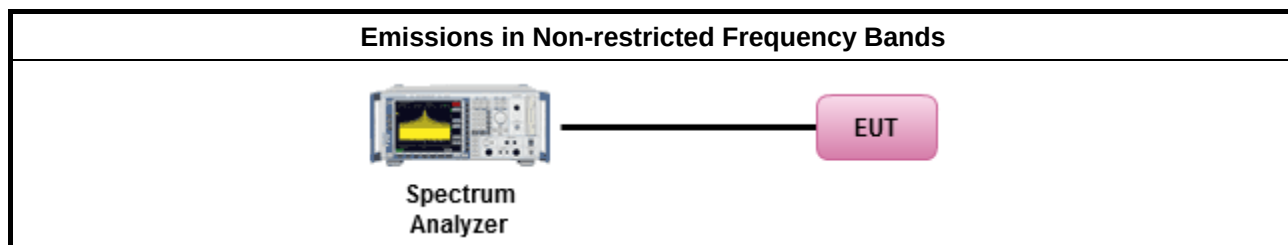
3.5.2 Measuring Instruments

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.

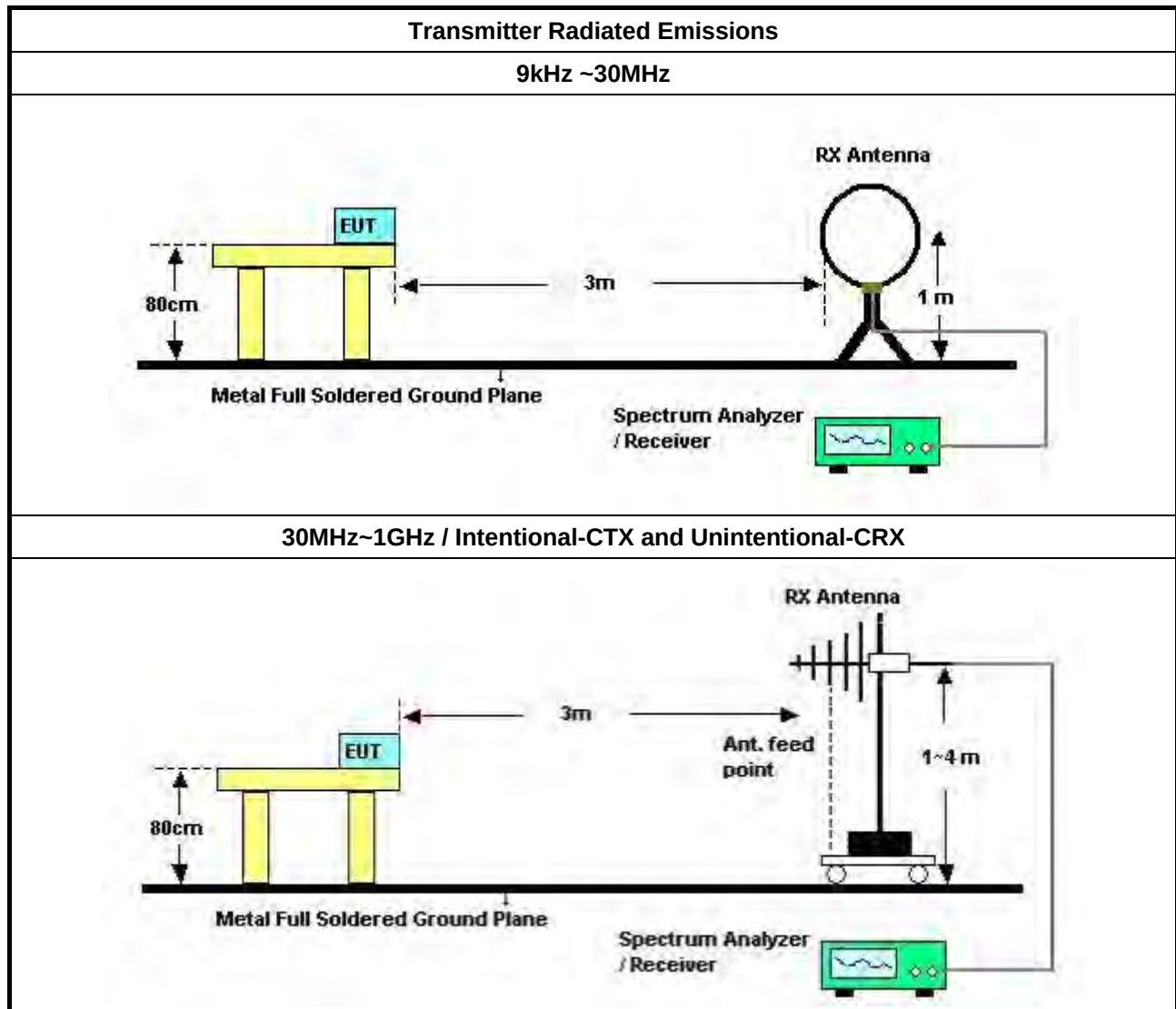
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

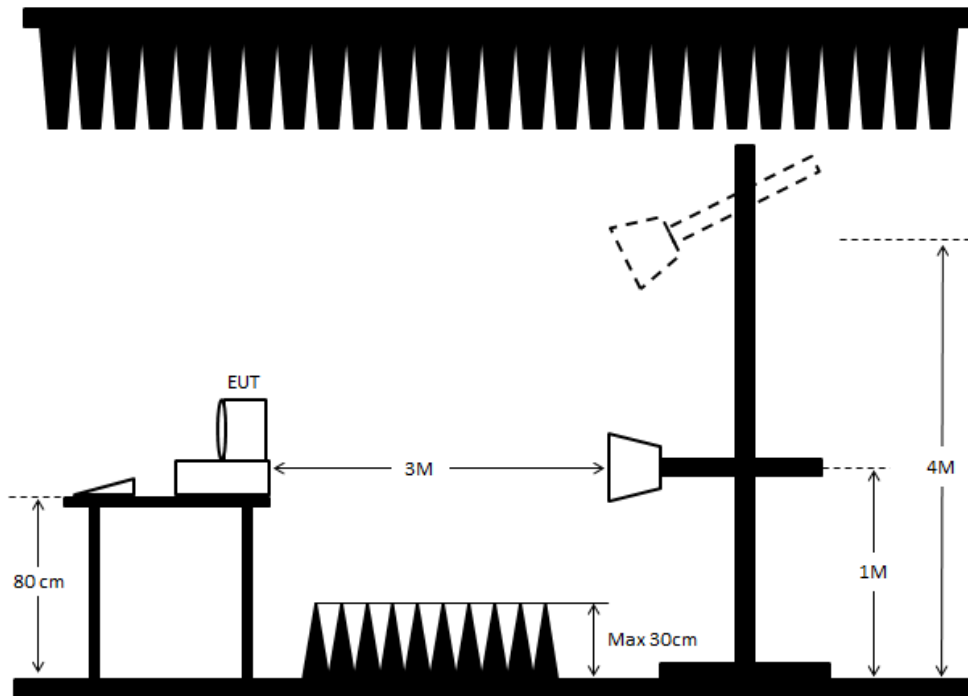
Test Method	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.9.2.2 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions 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

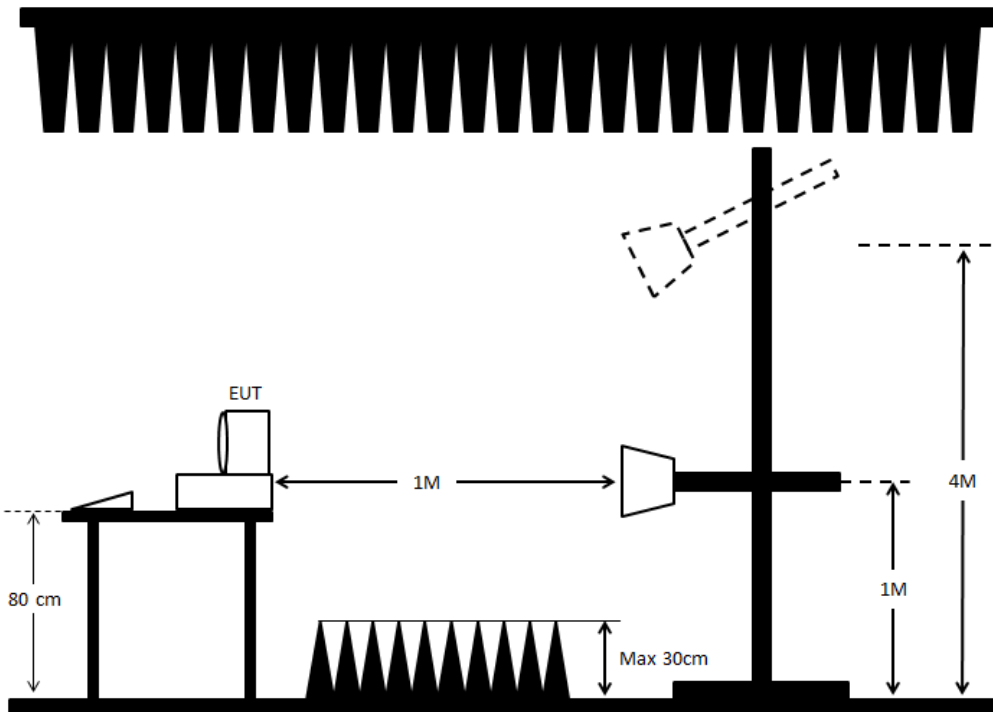


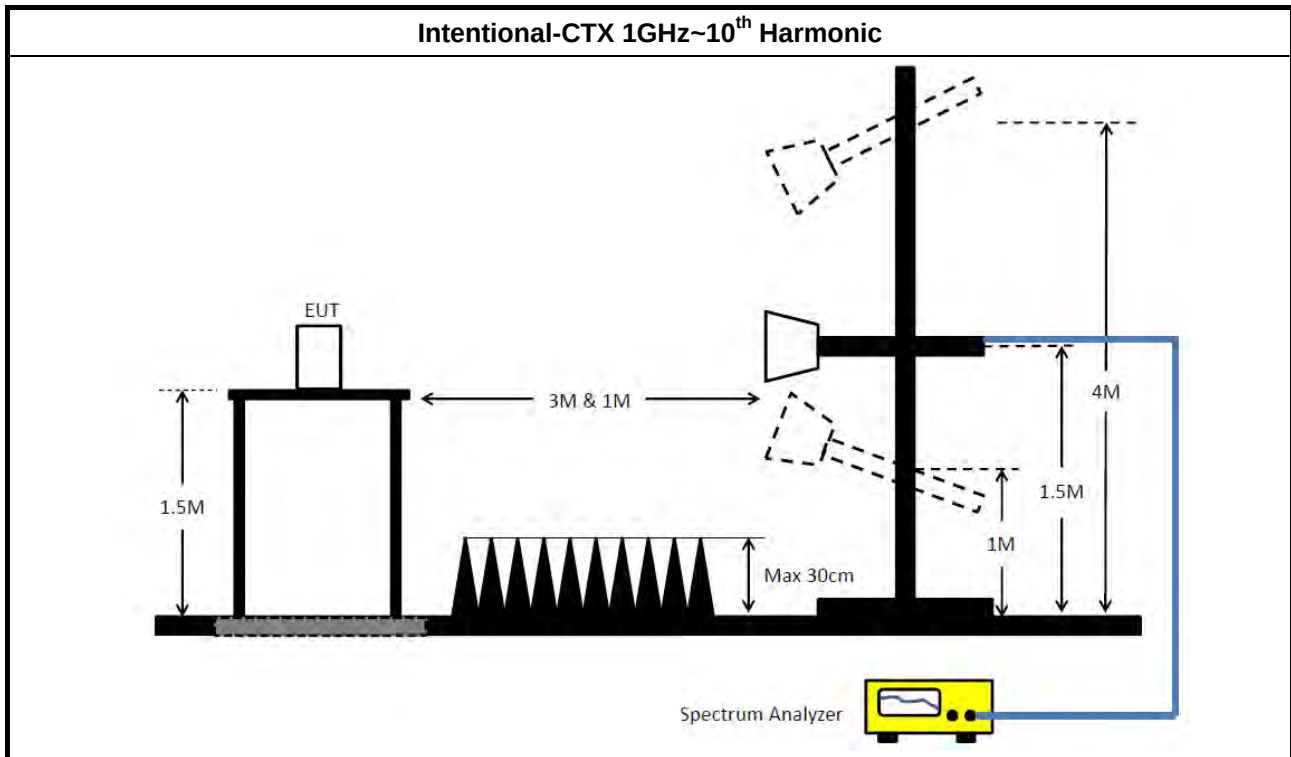
Unintentional – CRX 1GHz~5th Harmonic

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-50-1 6-2	04083	150kHz~ 00MHz	Dec. 14, 2016	Dec. 13, 2017	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Dec. 20, 2017	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 16, 2018*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz~18GHz	Nov. 10, 2016	Nov. 09, 2017	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Jan. 15, 2018	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Nov. 21, 2017	Radiation (03CH01-CB)
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	6.2009-10-7	N/A	N/A	N/A	Radiation (03CH01-CB)



NCC Test Report

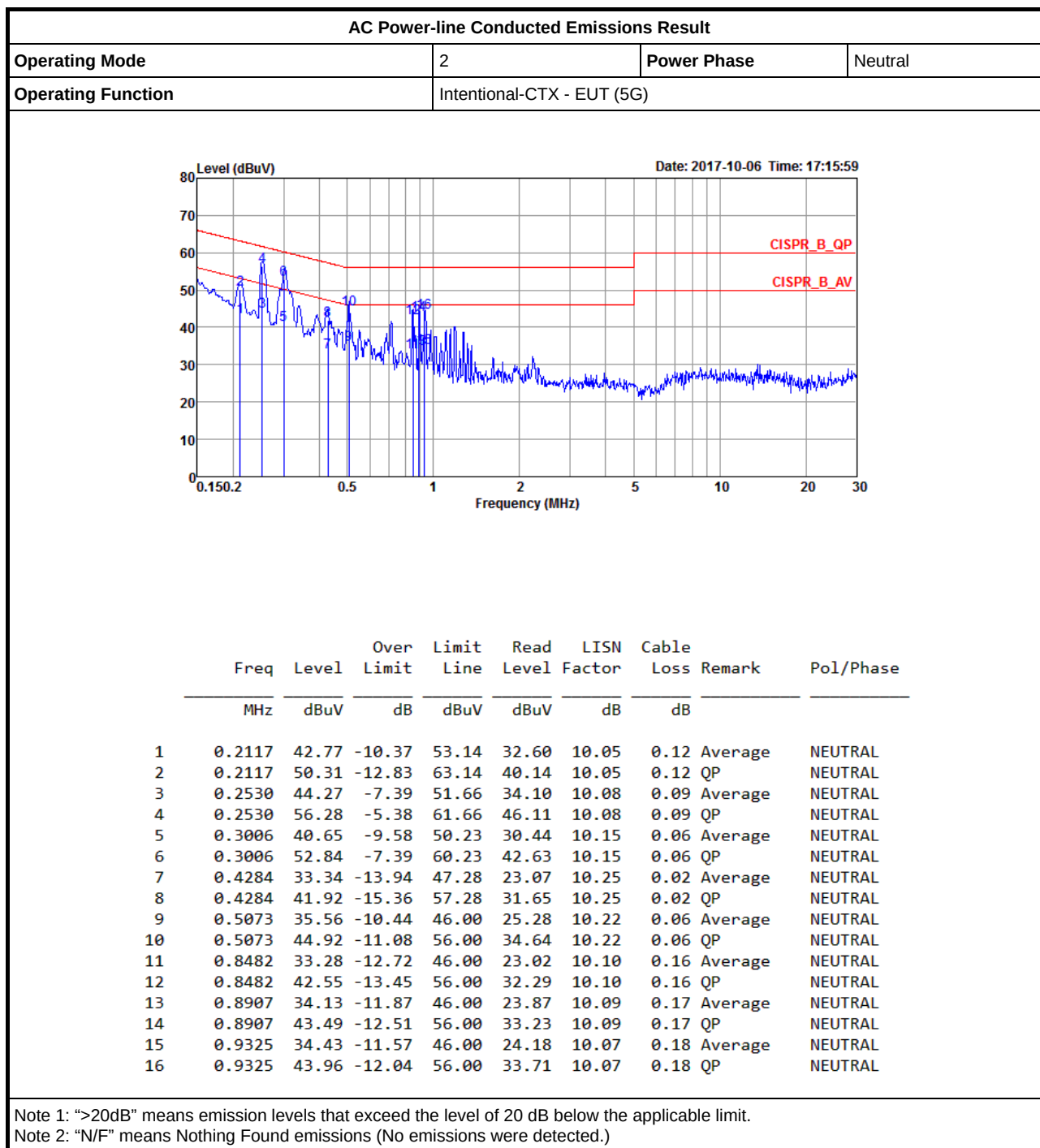
Report No. : TR7O1215AA

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
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)
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.

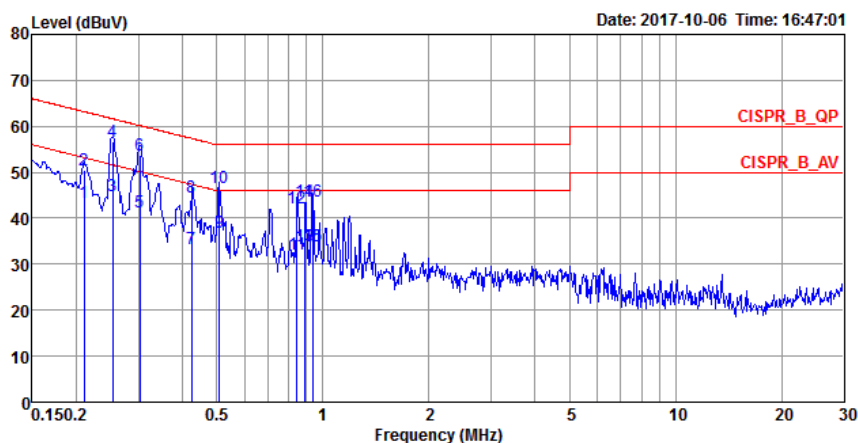
“*” Calibration Interval of instruments listed above is two years.

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



AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Line
Operating Function	Intentional-CTX - EUT (5G)		



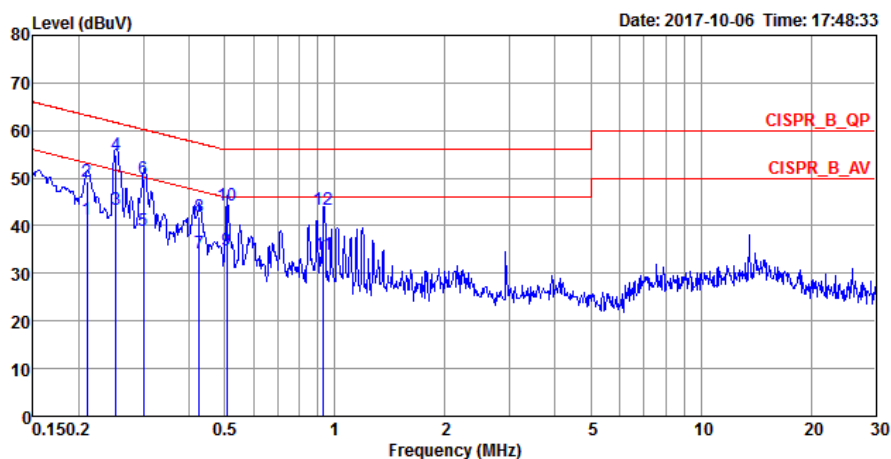
	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark	Pol/Phase
			dB	dBuV	dBuV	dB	dB		
1	0.2106	43.46	-9.72	53.18	33.42	9.92	0.12	Average	LINE
2	0.2106	50.62	-12.56	63.18	40.58	9.92	0.12	QP	LINE
3	0.2535	45.00	-6.64	51.64	34.99	9.92	0.09	Average	LINE
4	0.2535	56.76	-4.88	61.64	46.75	9.92	0.09	QP	LINE
5	0.3035	41.21	-8.94	50.15	31.22	9.93	0.06	Average	LINE
6	0.3035	53.66	-6.49	60.15	43.67	9.93	0.06	QP	LINE
7	0.4235	33.25	-14.13	47.38	23.28	9.95	0.02	Average	LINE
8	0.4235	44.46	-12.92	57.38	34.49	9.95	0.02	QP	LINE
9	0.5081	36.91	-9.09	46.00	26.90	9.95	0.06	Average	LINE
10	0.5081	46.65	-9.35	56.00	36.64	9.95	0.06	QP	LINE
11	0.8454	32.18	-13.82	46.00	22.06	9.96	0.16	Average	LINE
12	0.8454	42.28	-13.72	56.00	32.16	9.96	0.16	QP	LINE
13	0.8911	33.99	-12.01	46.00	23.86	9.96	0.17	Average	LINE
14	0.8911	43.72	-12.28	56.00	33.59	9.96	0.17	QP	LINE
15	0.9332	33.84	-12.16	46.00	23.70	9.96	0.18	Average	LINE
16	0.9332	43.61	-12.39	56.00	33.47	9.96	0.18	QP	LINE

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

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

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Unintentional-CRX - EUT (2.4G)		



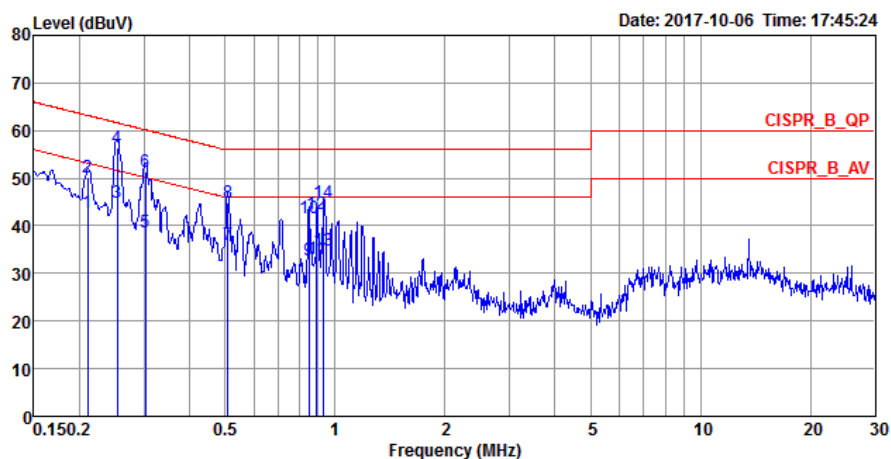
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.2106	41.32	-11.86	53.18	31.15	10.05	0.12	Average	NEUTRAL
2	0.2106	49.16	-14.02	63.18	38.99	10.05	0.12	QP	NEUTRAL
3	0.2530	43.29	-8.37	51.66	33.12	10.08	0.09	Average	NEUTRAL
4	0.2530	54.84	-6.82	61.66	44.67	10.08	0.09	QP	NEUTRAL
5	0.3003	38.86	-11.38	50.24	28.65	10.15	0.06	Average	NEUTRAL
6	0.3003	49.92	-10.32	60.24	39.71	10.15	0.06	QP	NEUTRAL
7	0.4260	34.16	-13.17	47.33	23.89	10.25	0.02	Average	NEUTRAL
8	0.4260	42.06	-15.27	57.33	31.79	10.25	0.02	QP	NEUTRAL
9	0.5074	34.98	-11.02	46.00	24.70	10.22	0.06	Average	NEUTRAL
10	0.5074	44.23	-11.77	56.00	33.95	10.22	0.06	QP	NEUTRAL
11	0.9331	33.99	-12.01	46.00	23.74	10.07	0.18	Average	NEUTRAL
12	0.9331	43.52	-12.48	56.00	33.27	10.07	0.18	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	Unintentional-CRX - EUT (2.4G)		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.2107	42.75	-10.43	53.18	32.71	9.92	0.12	Average	LINE
2	0.2107	50.30	-12.88	63.18	40.26	9.92	0.12	QP	LINE
3	0.2535	44.87	-6.77	51.64	34.86	9.92	0.09	Average	LINE
4	0.2535	56.43	-5.21	61.64	46.42	9.92	0.09	QP	LINE
5	0.3028	38.77	-11.40	50.17	28.78	9.93	0.06	Average	LINE
6	0.3028	51.44	-8.73	60.17	41.45	9.93	0.06	QP	LINE
7	0.5082	35.99	-10.01	46.00	25.98	9.95	0.06	Average	LINE
8	0.5082	44.99	-11.01	56.00	34.98	9.95	0.06	QP	LINE
9	0.8483	32.62	-13.38	46.00	22.50	9.96	0.16	Average	LINE
10	0.8483	41.63	-14.37	56.00	31.51	9.96	0.16	QP	LINE
11	0.8897	33.18	-12.82	46.00	23.05	9.96	0.17	Average	LINE
12	0.8897	42.65	-13.35	56.00	32.52	9.96	0.17	QP	LINE
13	0.9331	34.92	-11.08	46.00	24.78	9.96	0.18	Average	LINE
14	0.9331	44.76	-11.24	56.00	34.62	9.96	0.18	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	9.075M	14.193M	14M2G1D	7.075M	12.869M
802.11g_Nss1,(6Mbps)_2TX	16.325M	25.612M	25M6D1D	16.325M	16.392M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.575M	27.036M	27M0D1D	17.525M	17.591M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.3M	36.032M	36M0D1D	31.65M	35.882M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	17.6M	25.337M	25M3D1D	16.325M	17.191M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	34.75M	36.282M	36M3D1D	28.05M	35.682M

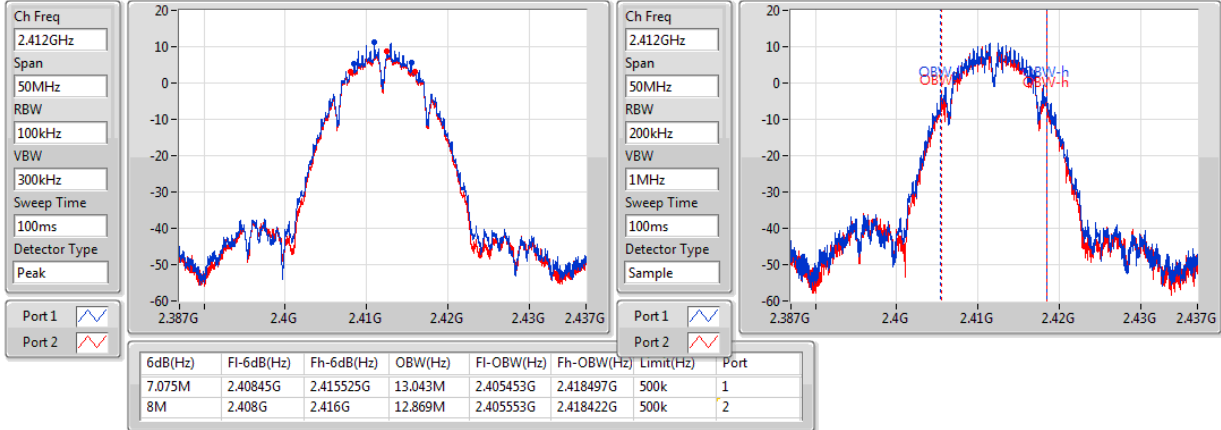
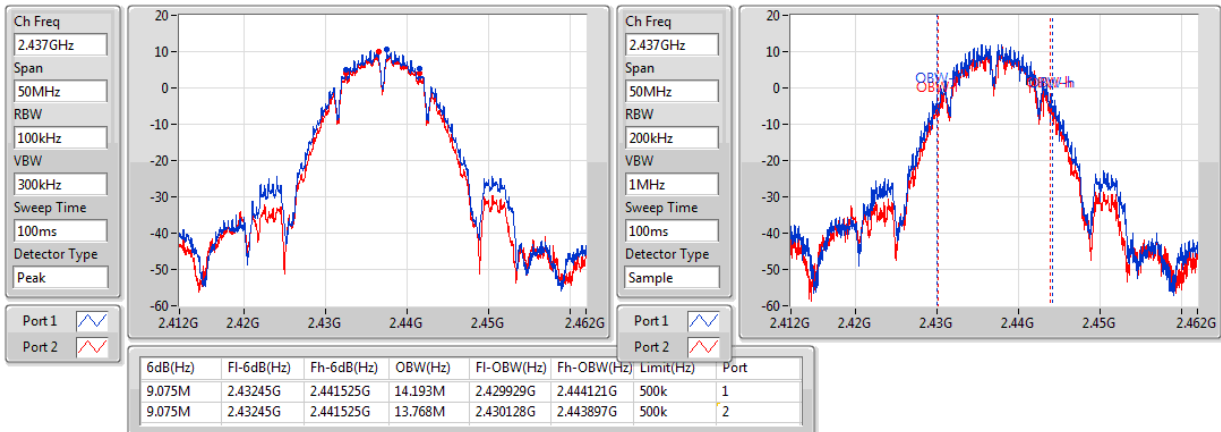
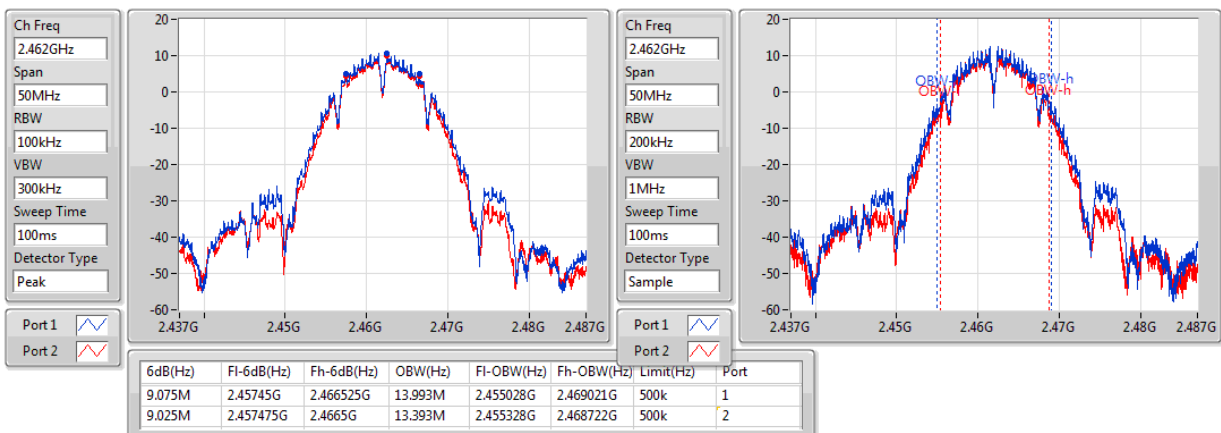
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

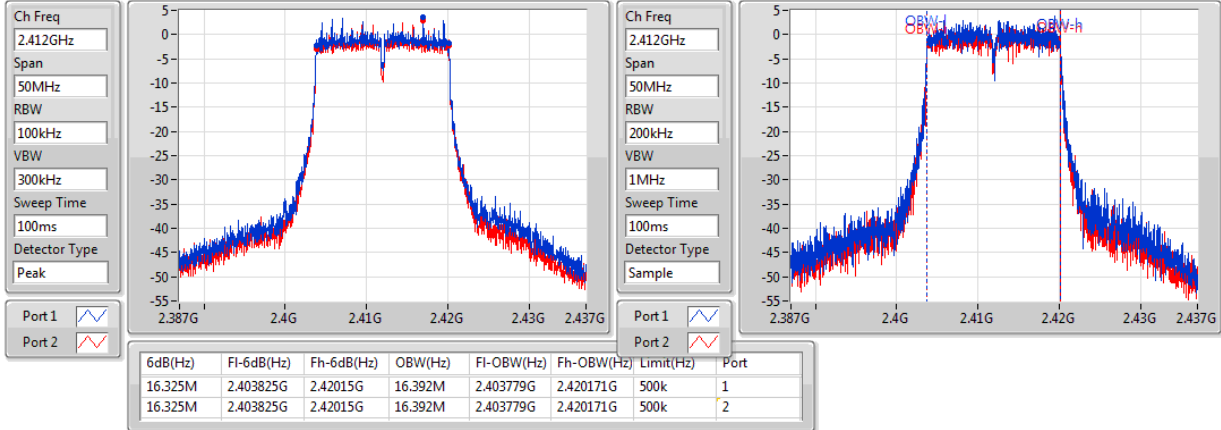
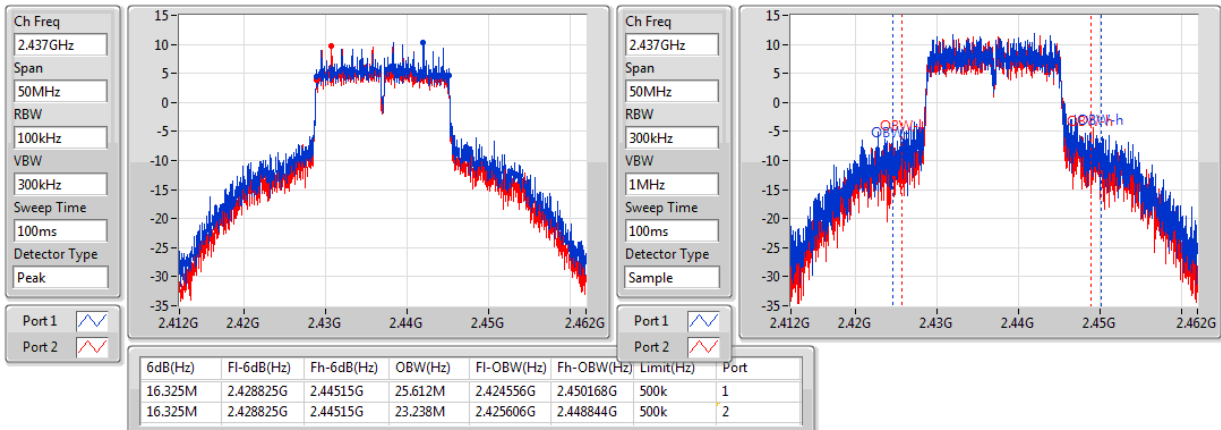
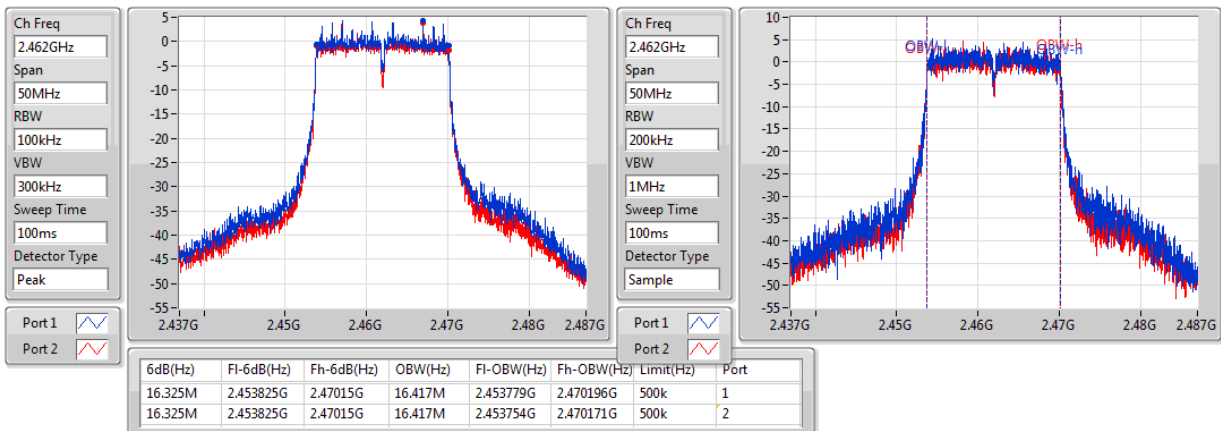
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

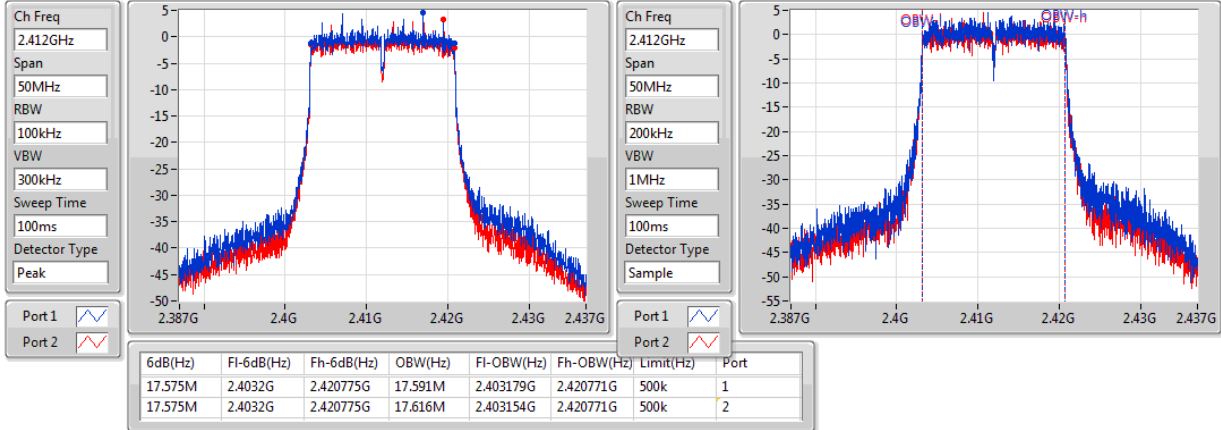
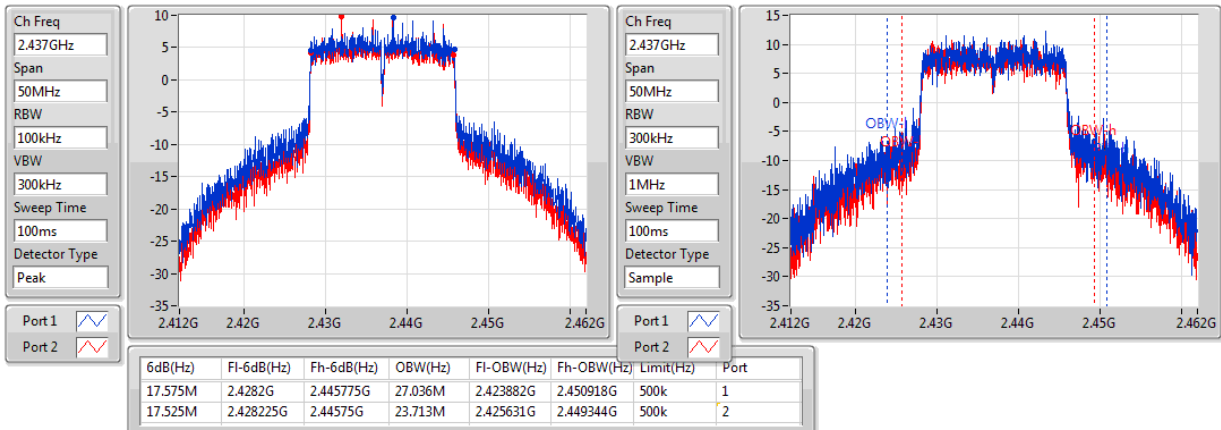
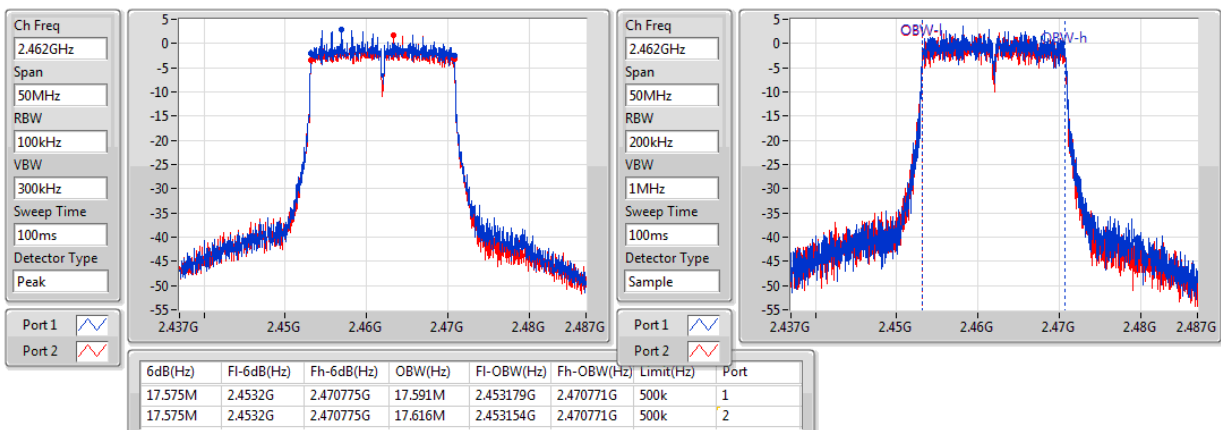
Result

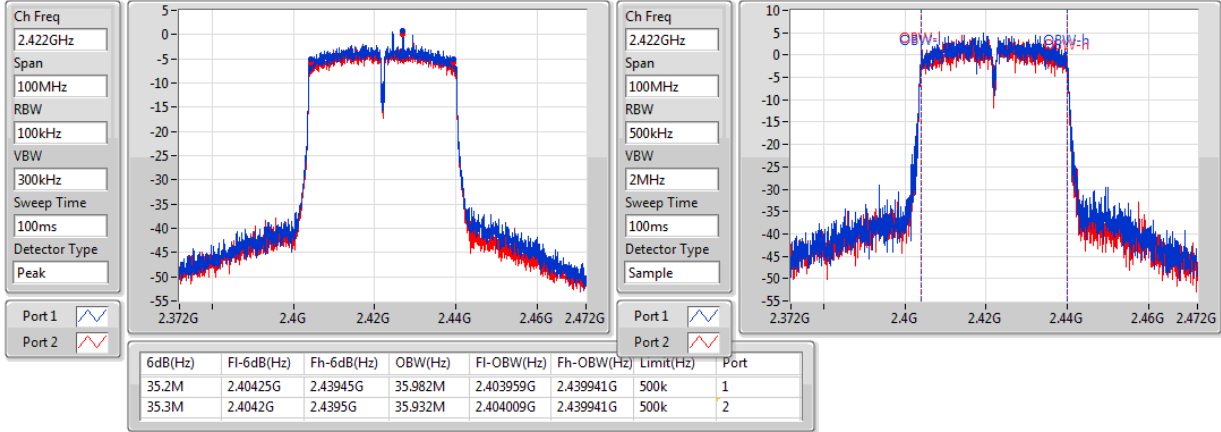
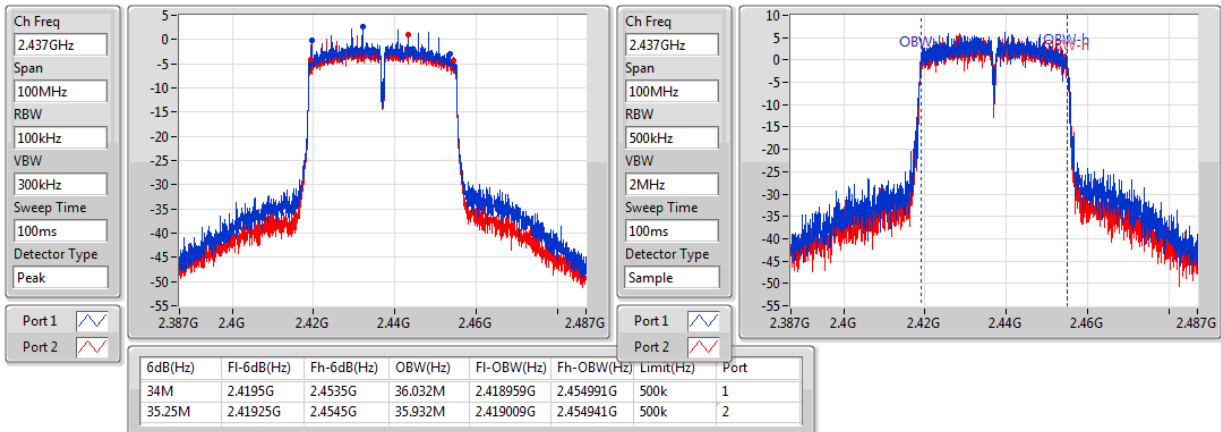
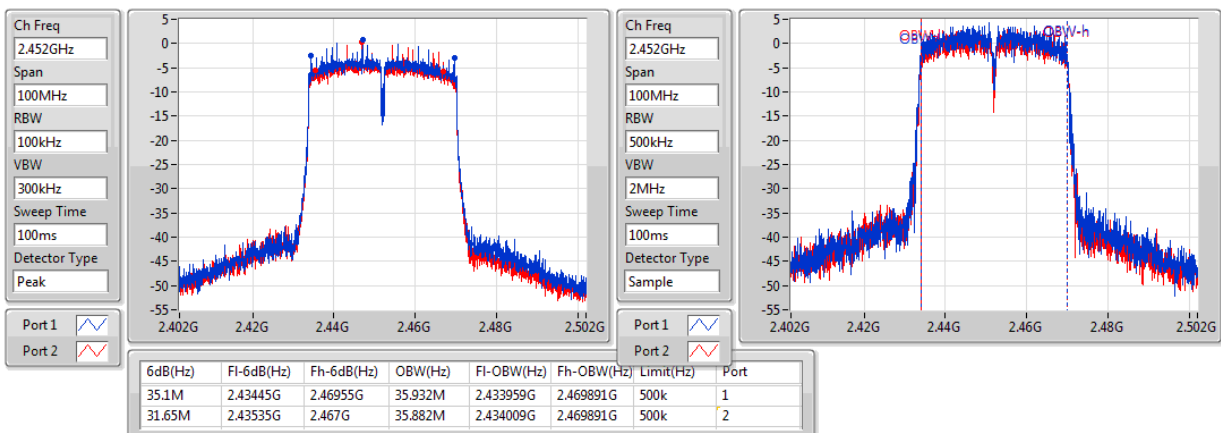
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.075M	13.043M	8M	12.869M
2437MHz	Pass	500k	9.075M	14.193M	9.075M	13.768M
2462MHz	Pass	500k	9.075M	13.993M	9.025M	13.393M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.392M	16.325M	16.392M
2437MHz	Pass	500k	16.325M	25.612M	16.325M	23.238M
2462MHz	Pass	500k	16.325M	16.417M	16.325M	16.417M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.575M	17.591M	17.575M	17.616M
2437MHz	Pass	500k	17.575M	27.036M	17.525M	23.713M
2462MHz	Pass	500k	17.575M	17.591M	17.575M	17.616M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.2M	35.982M	35.3M	35.932M
2437MHz	Pass	500k	34M	36.032M	35.25M	35.932M
2452MHz	Pass	500k	35.1M	35.932M	31.65M	35.882M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.475M	17.191M	16.375M	17.441M
2437MHz	Pass	500k	16.975M	25.337M	17.6M	22.889M
2462MHz	Pass	500k	16.65M	17.591M	16.325M	17.691M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	31.3M	35.682M	33.65M	36.182M
2437MHz	Pass	500k	33.8M	36.082M	34.75M	36.282M
2452MHz	Pass	500k	28.05M	35.732M	33.7M	36.032M

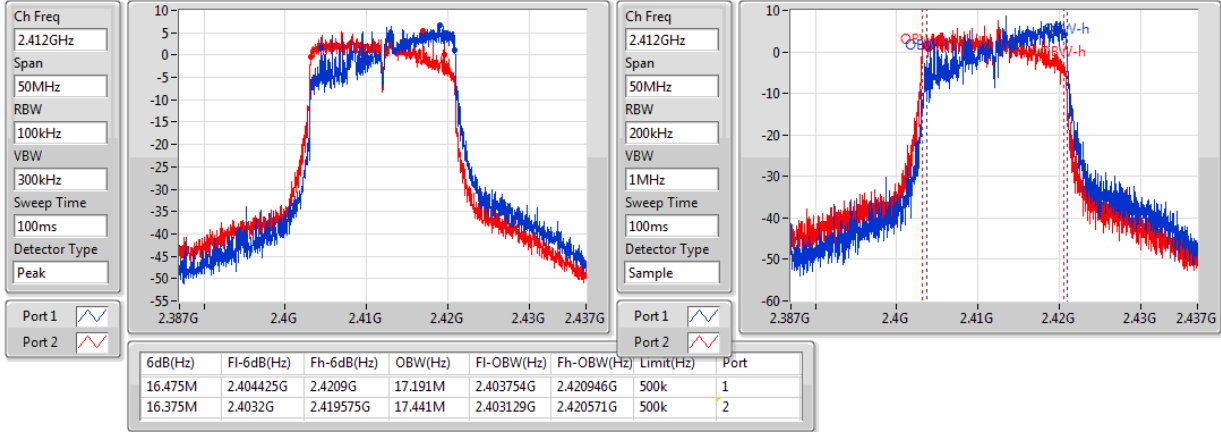
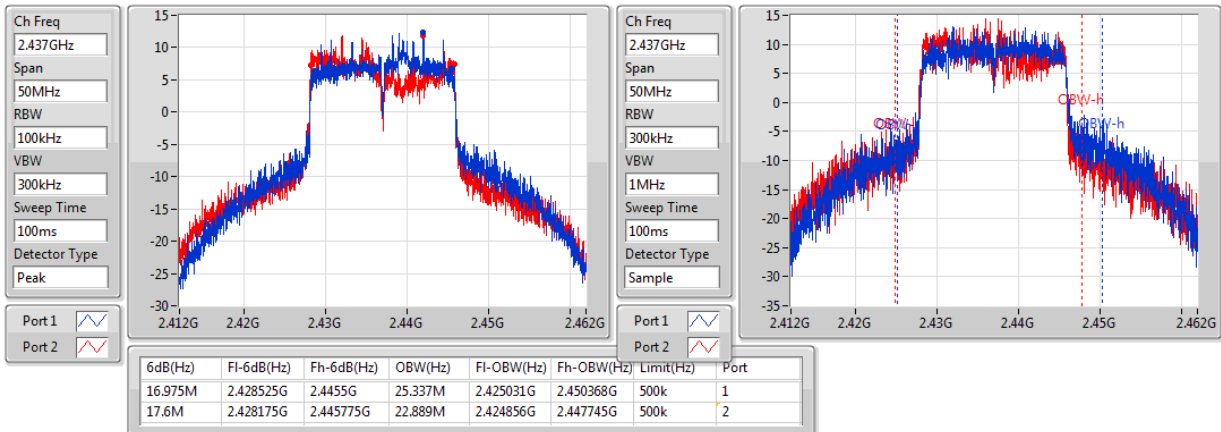
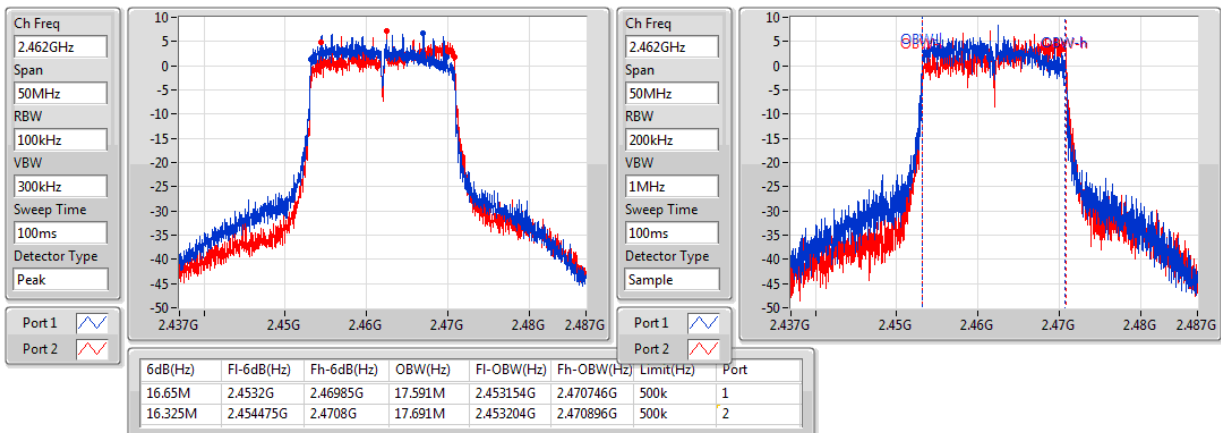
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

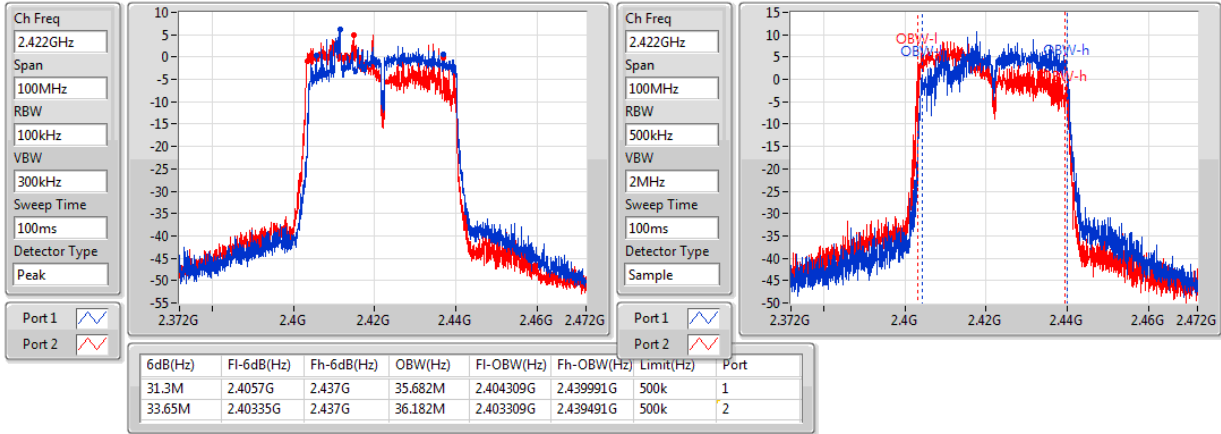
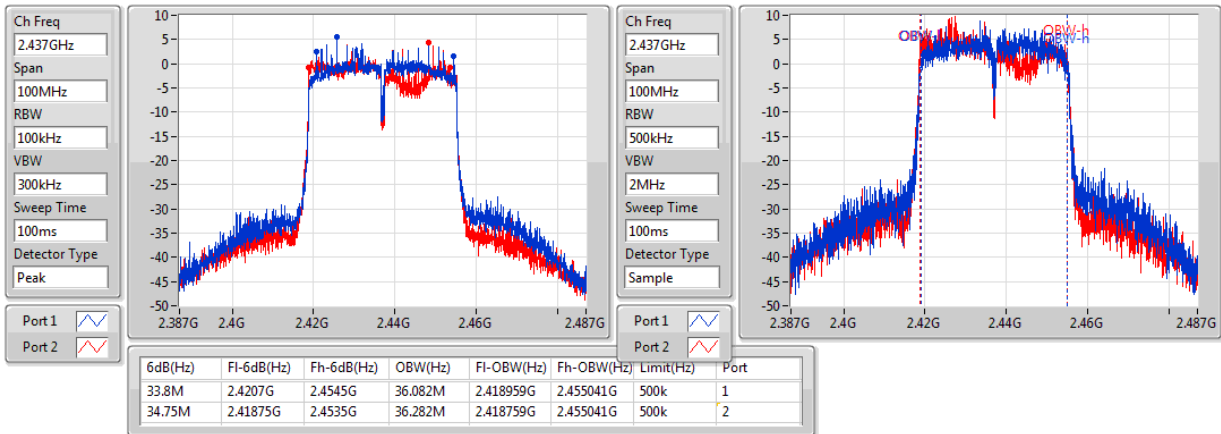
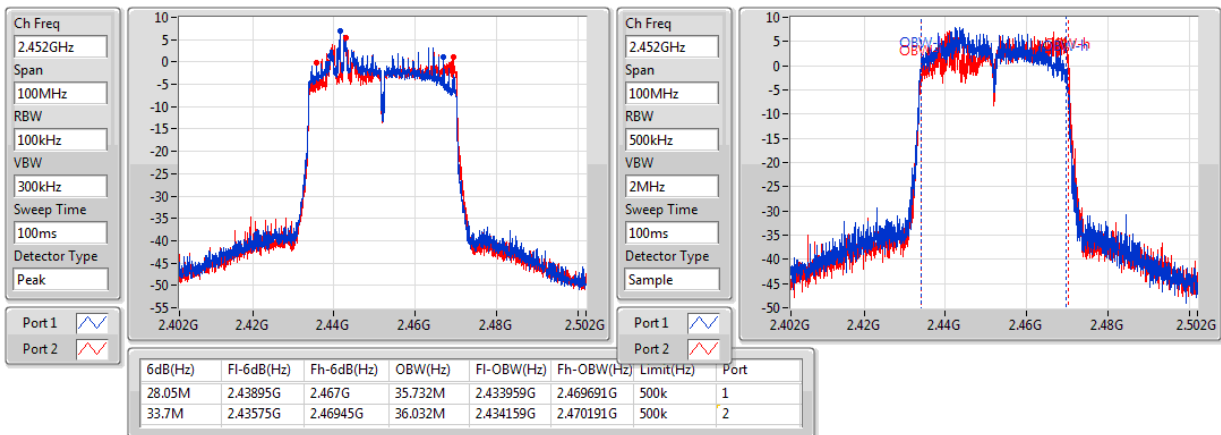
802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

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	25.05	0.31989
802.11g_Nss1,(6Mbps)_2TX	25.98	0.39628
802.11ac VHT20_Nss1,(MCS0)_2TX	25.86	0.38548
802.11ac VHT40_Nss1,(MCS0)_2TX	20.25	0.10593
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	25.72	0.37325
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	20.90	0.12303

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.37	20.09	19.83	22.97	30.00
2437MHz	Pass	3.37	22.43	21.62	25.05	30.00
2462MHz	Pass	3.37	22.17	21.34	24.79	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.37	16.26	15.72	19.01	30.00
2437MHz	Pass	3.37	23.57	22.28	25.98	30.00
2462MHz	Pass	3.37	17.03	16.47	19.77	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.37	17.02	16.40	19.73	30.00
2437MHz	Pass	3.37	23.13	22.54	25.86	30.00
2462MHz	Pass	3.37	16.07	15.44	18.78	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.37	16.20	15.72	18.98	30.00
2437MHz	Pass	3.37	17.64	16.79	20.25	30.00
2452MHz	Pass	3.37	15.64	14.87	18.28	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.28	17.47	17.02	20.26	29.72
2437MHz	Pass	6.28	22.94	22.46	25.72	29.72
2462MHz	Pass	6.28	18.38	17.85	21.13	29.72
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.28	16.31	15.91	19.12	29.72
2437MHz	Pass	6.28	18.14	17.62	20.90	29.72
2452MHz	Pass	6.28	16.16	15.73	18.96	29.72

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-3.57
802.11g_Nss1,(6Mbps)_2TX	-3.95
802.11ac VHT20_Nss1,(MCS0)_2TX	-4.34
802.11ac VHT40_Nss1,(MCS0)_2TX	-11.00
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-1.40
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-5.09

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	6.28	-6.20	-9.66	-4.97	7.72
2437MHz	Pass	6.28	-5.34	-5.54	-3.60	7.72
2462MHz	Pass	6.28	-6.24	-5.64	-3.57	7.72
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.28	-12.58	-13.87	-11.43	7.72
2437MHz	Pass	6.28	-6.99	-5.48	-3.95	7.72
2462MHz	Pass	6.28	-11.59	-12.91	-10.25	7.72
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.28	-11.94	-12.63	-10.07	7.72
2437MHz	Pass	6.28	-6.61	-7.50	-4.34	7.72
2462MHz	Pass	6.28	-12.54	-13.69	-10.22	7.72
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.28	-14.11	-15.13	-13.02	7.72
2437MHz	Pass	6.28	-13.29	-14.52	-11.00	7.72
2452MHz	Pass	6.28	-12.89	-15.73	-12.79	7.72
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.28	-5.67	-8.36	-5.27	7.72
2437MHz	Pass	6.28	-2.62	-2.02	-1.40	7.72
2462MHz	Pass	6.28	-5.82	-7.19	-5.58	7.72
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.28	-8.45	-10.07	-7.94	7.72
2437MHz	Pass	6.28	-5.39	-7.91	-5.09	7.72
2452MHz	Pass	6.28	-10.99	-10.37	-9.86	7.72

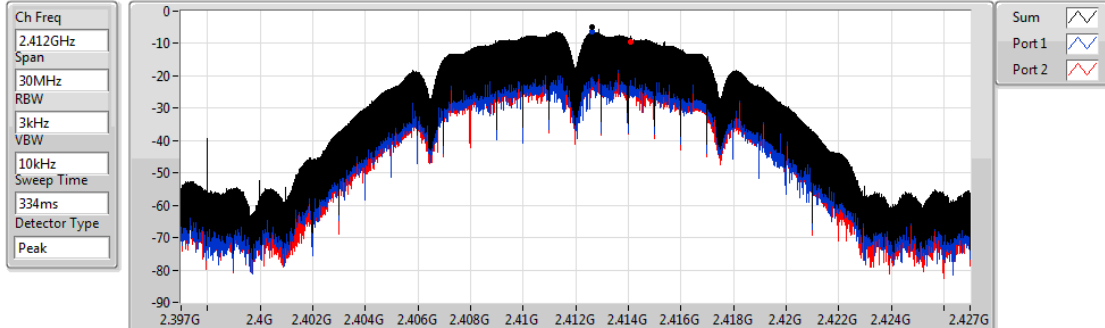
DG = Directional Gain; RBW=3kHz;

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

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

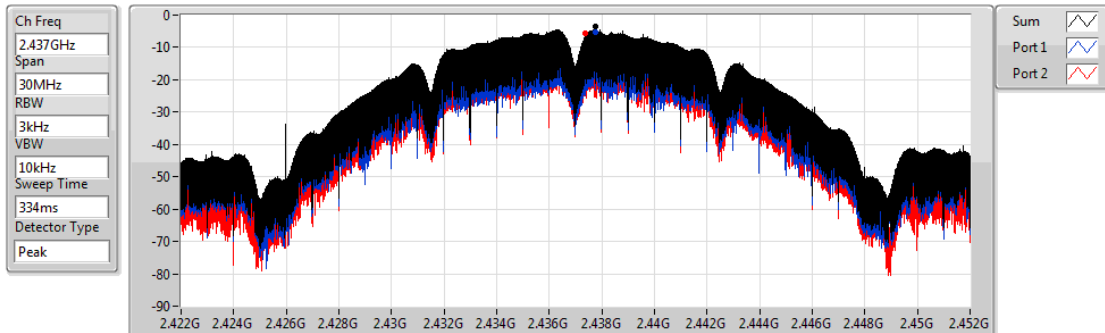


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.97	-4.97	-6.20	-9.66

802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

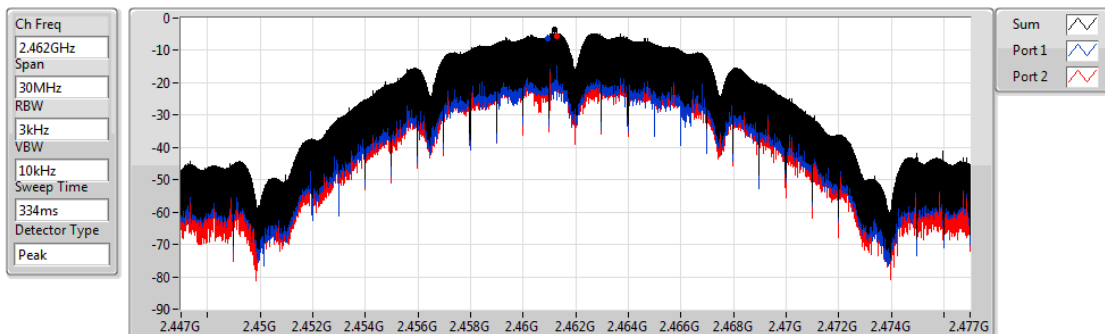


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.60	-3.60	-5.34	-5.54

802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

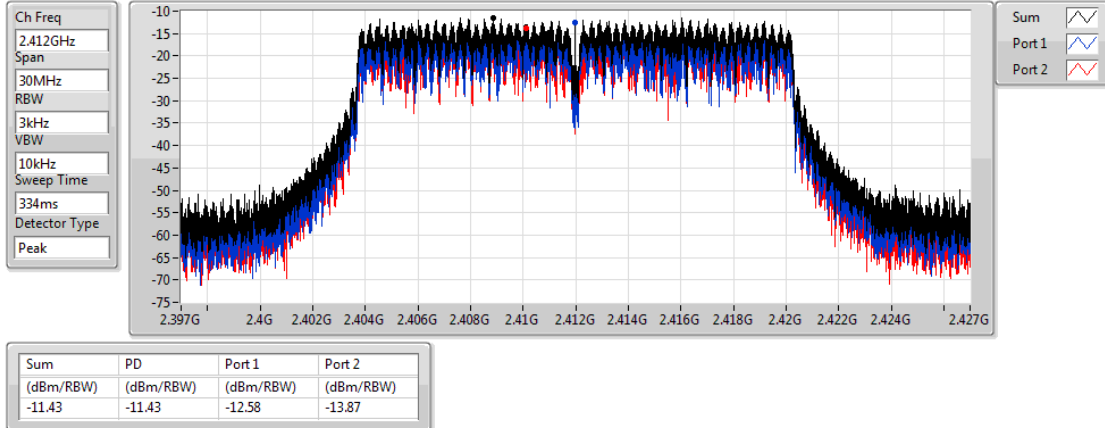


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.57	-3.57	-6.24	-5.64

802.11g_Nss1,(6Mbps)_2TX

PSD

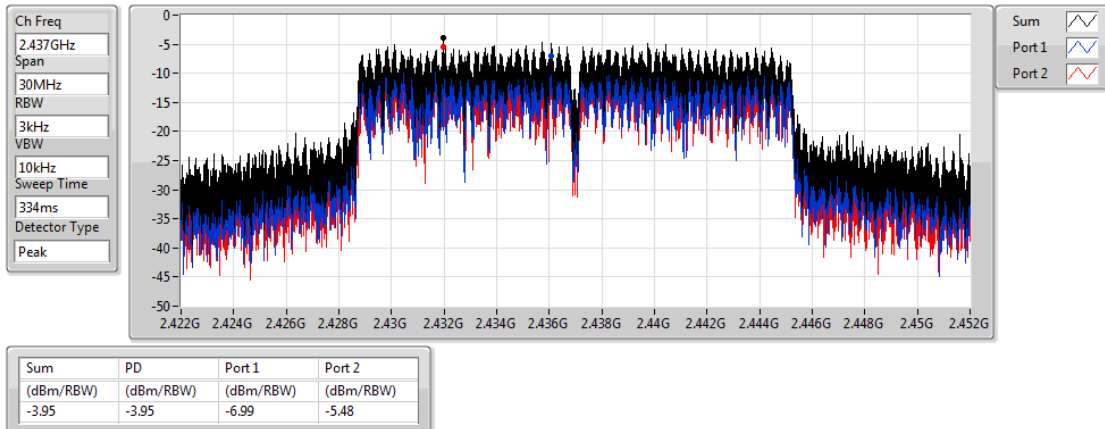
2412MHz



802.11g_Nss1,(6Mbps)_2TX

PSD

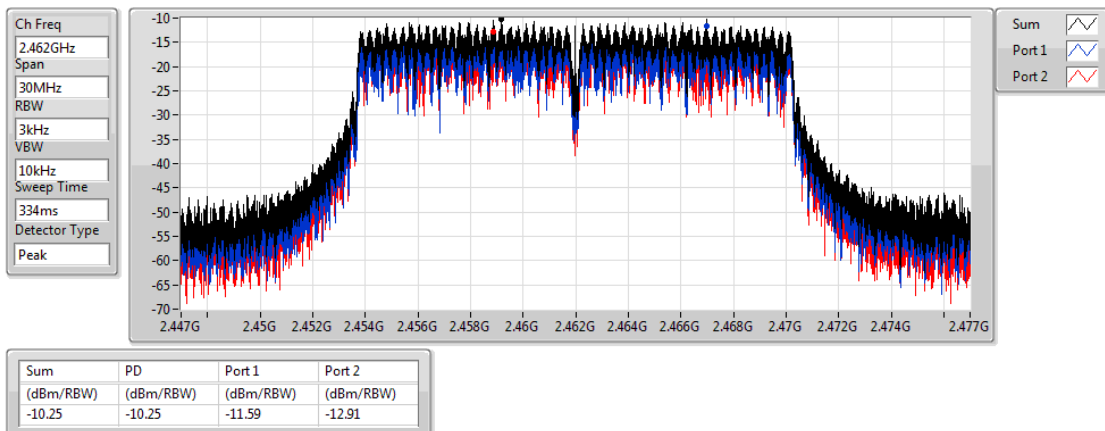
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802.11g_Nss1,(6Mbps)_2TX

PSD

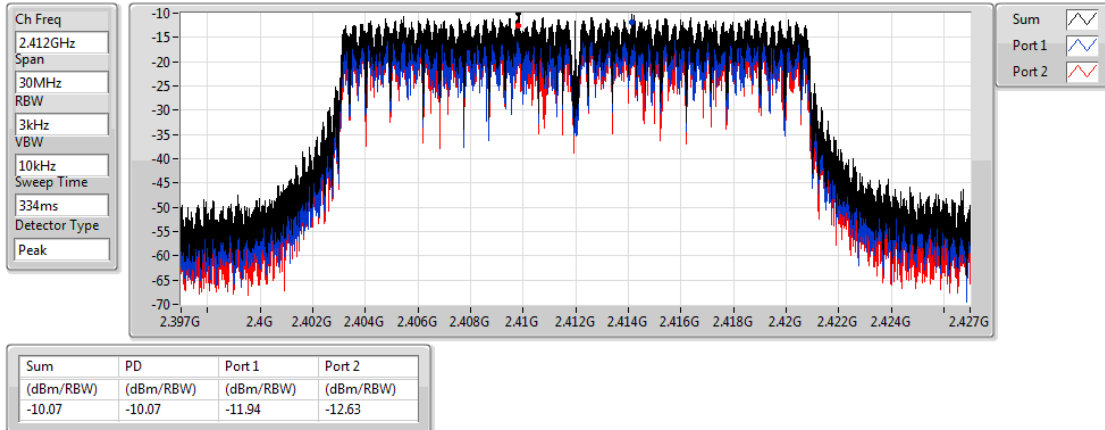
2462MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

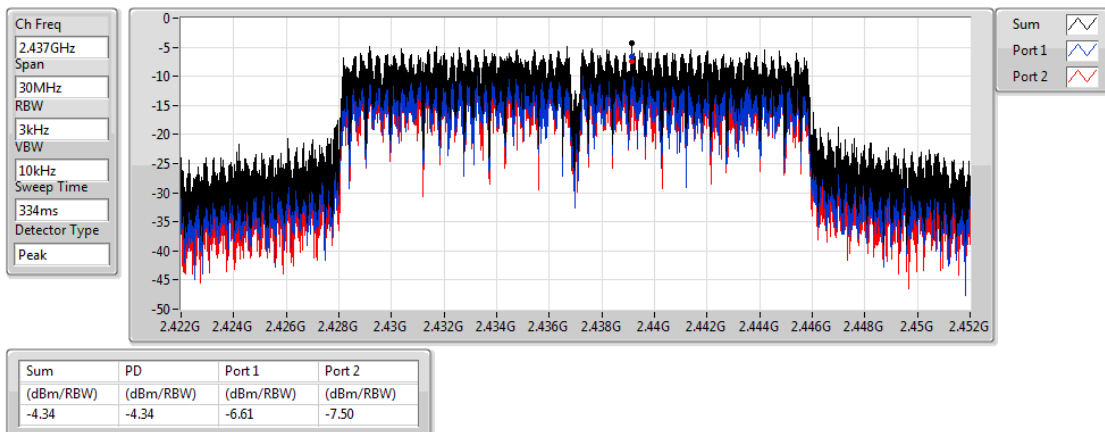
2412MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

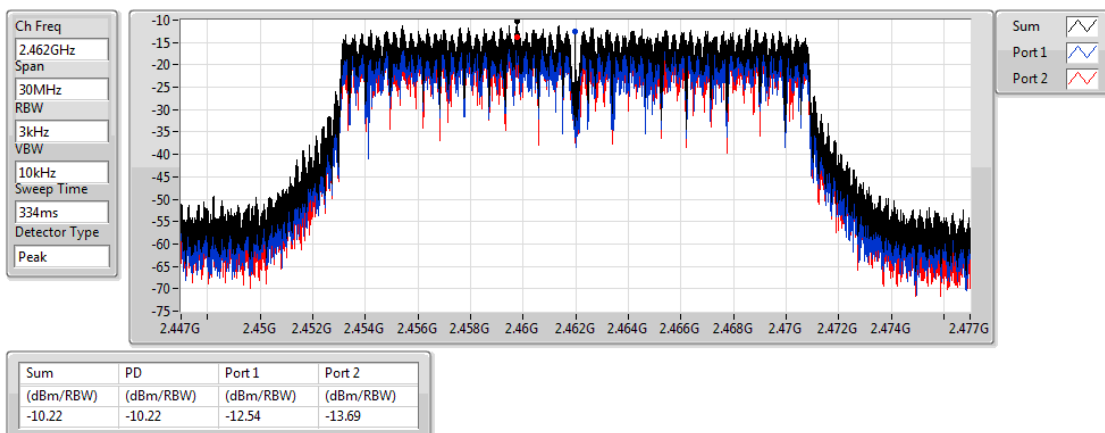
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802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

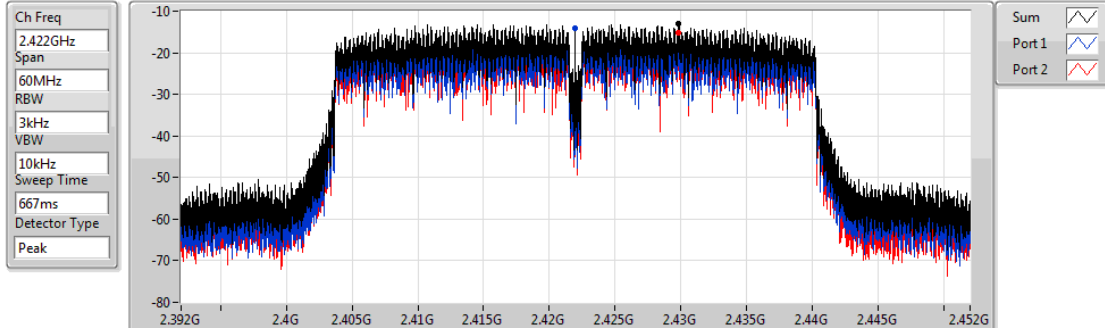
2462MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

2422MHz

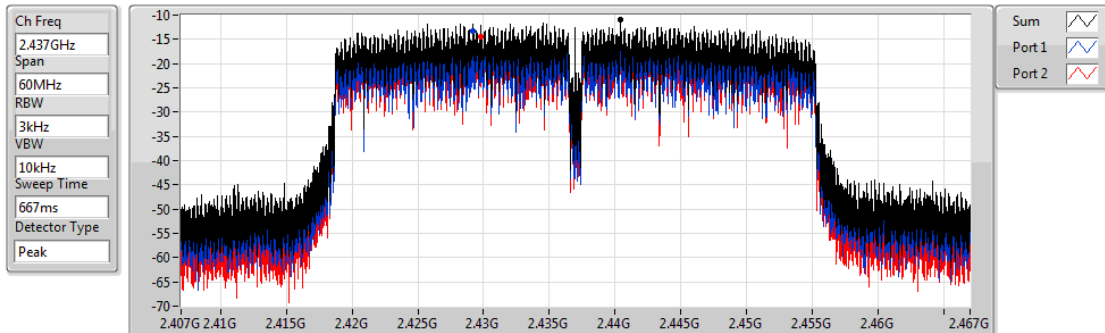


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.02	-13.02	-14.11	-15.13

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

2437MHz

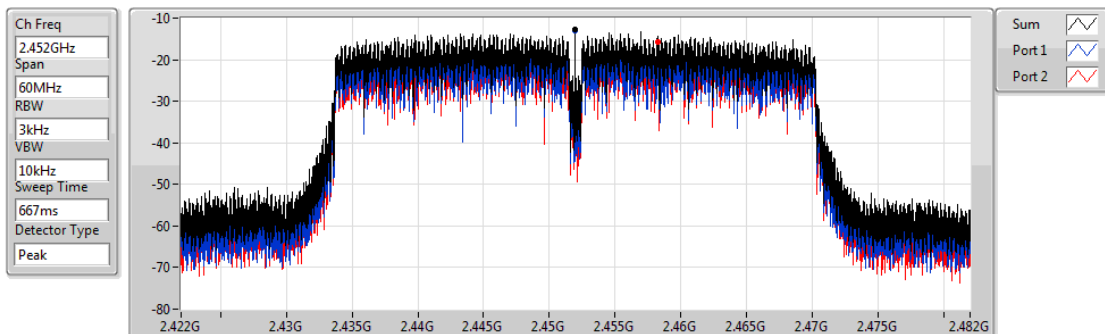


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.00	-11.00	-13.29	-14.52

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

2452MHz

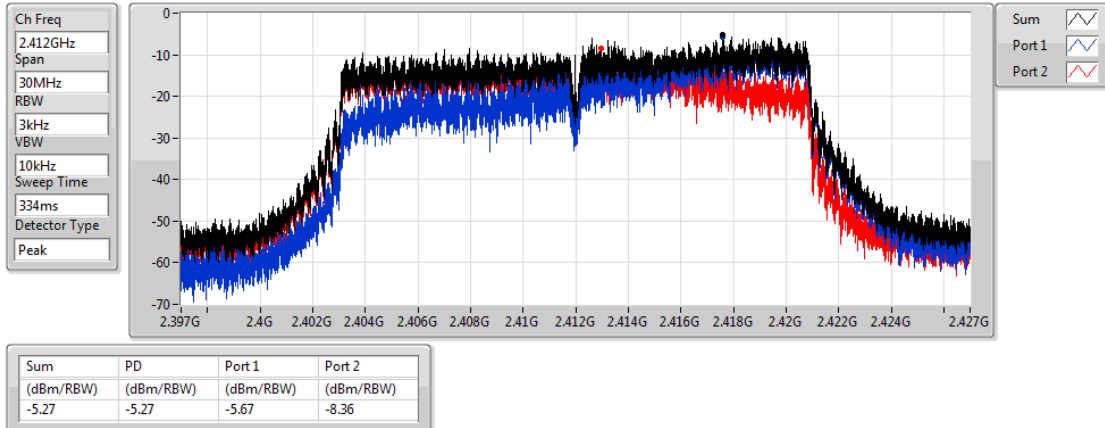


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.79	-12.79	-12.89	-15.73

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

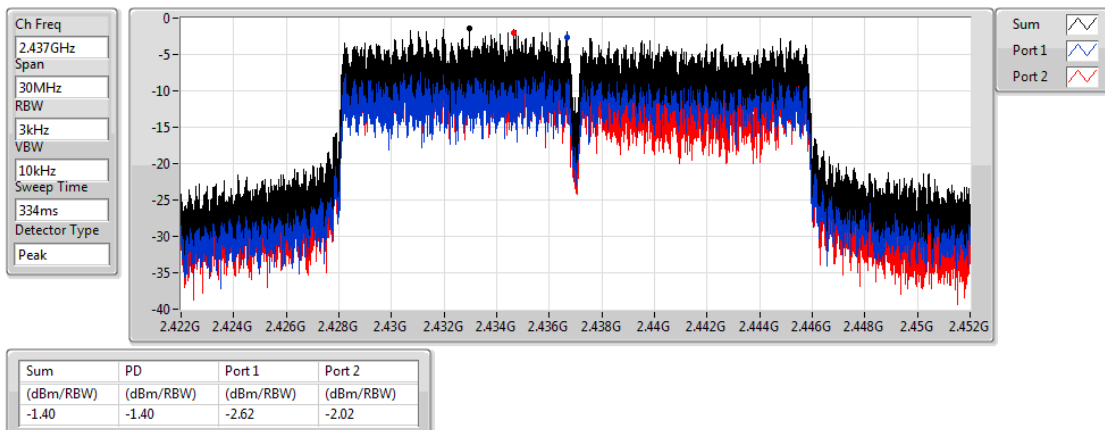
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802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

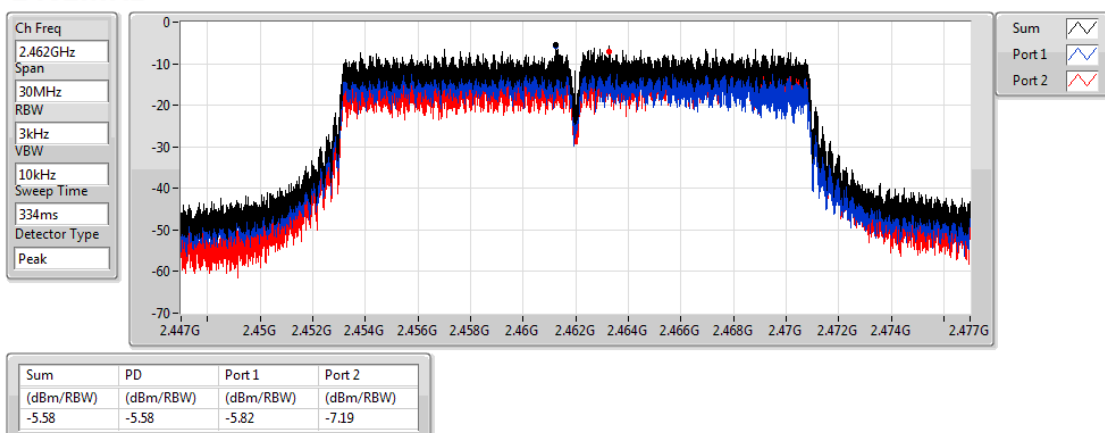
2437MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

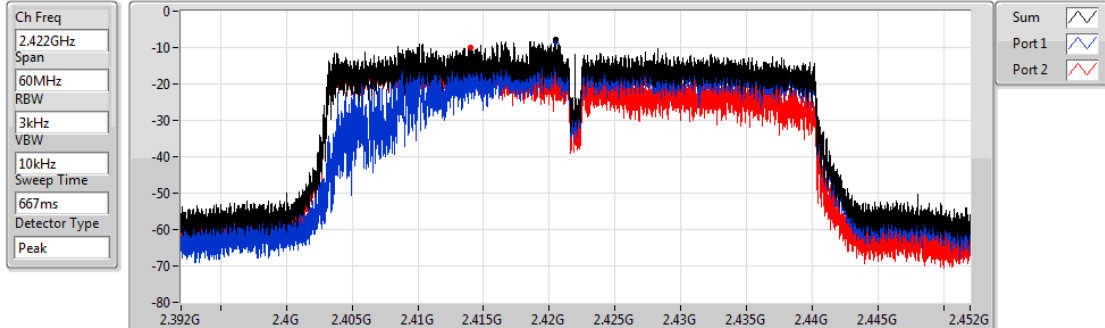
2462MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

2422MHz

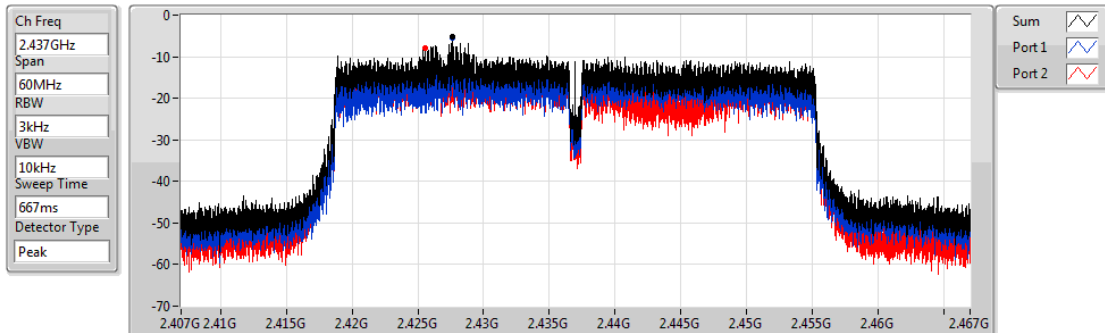


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.94	-7.94	-8.45	-10.07

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

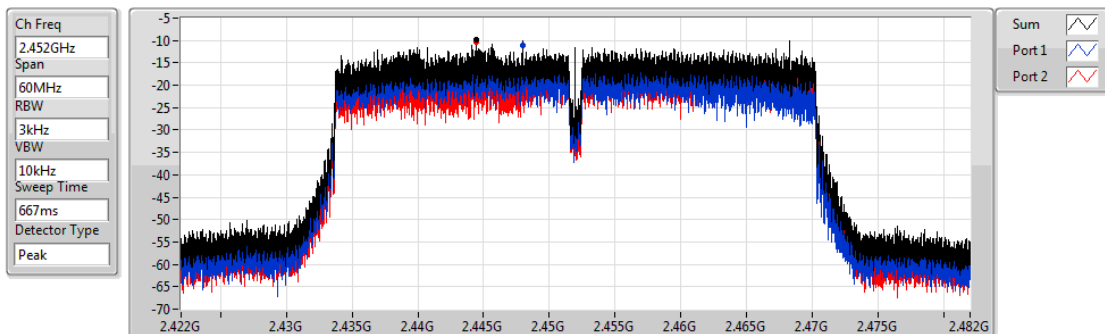


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.09	-5.09	-5.39	-7.91

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.86	-9.86	-10.99	-10.37

**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	2.431897G	2.71	-27.29	1.62613G	-46.30	2.39792G	-37.88	2.56014G	-50.85	3.228181G	-33.90	1

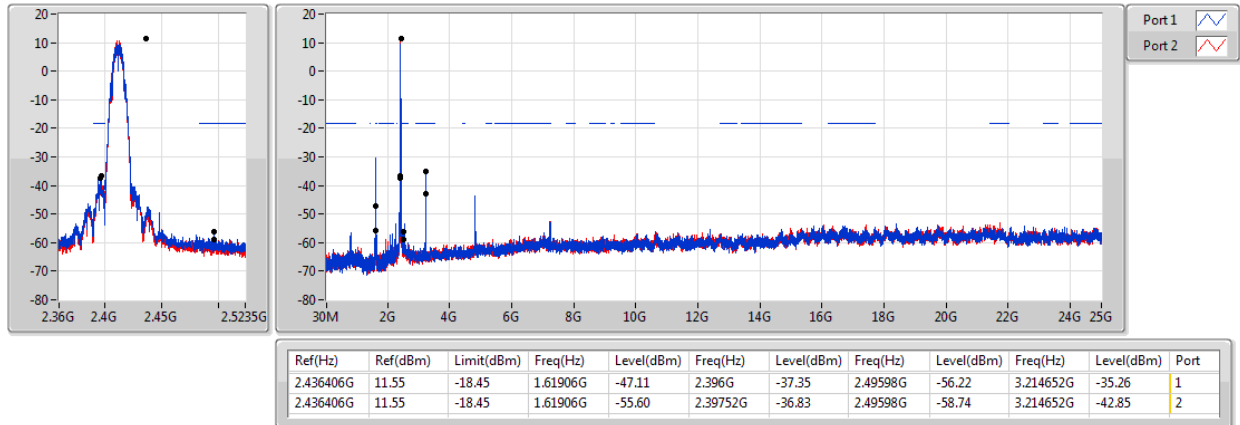
Result

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	11.55	-18.45	1.61906G	-47.11	2.396G	-37.35	2.49598G	-56.22	3.214652G	-35.26	1
2412MHz	Pass	2.436406G	11.55	-18.45	1.61906G	-55.60	2.39752G	-36.83	2.49598G	-58.74	3.214652G	-42.85	2
2437MHz	Pass	2.436406G	11.55	-18.45	1.624885G	-31.38	2.39952G	-46.68	2.48446G	-53.77	3.248367G	-38.45	1
2437MHz	Pass	2.436406G	11.55	-18.45	1.624885G	-40.01	2.39952G	-48.76	2.48478G	-57.53	3.248367G	-46.84	2
2462MHz	Pass	2.436406G	11.55	-18.45	1.641195G	-30.89	2.39992G	-58.21	2.48846G	-44.33	3.282082G	-37.98	1
2462MHz	Pass	2.436406G	11.55	-18.45	1.641195G	-37.92	2.39888G	-59.11	2.48894G	-43.62	3.282082G	-44.25	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.432064G	9.46	-20.54	1.61673G	-47.77	2.39992G	-35.57	2.49598G	-51.90	3.214652G	-33.69	1
2412MHz	Pass	2.432064G	9.46	-20.54	1.61673G	-54.91	2.39832G	-38.67	2.49318G	-56.42	3.214652G	-40.58	2
2437MHz	Pass	2.432064G	9.46	-20.54	1.622555G	-44.19	2.39952G	-38.41	2.48382G	-45.40	3.248367G	-38.05	1
2437MHz	Pass	2.432064G	9.46	-20.54	1.62605G	-50.61	2.3976G	-39.17	2.48382G	-46.92	3.248367G	-45.73	2
2462MHz	Pass	2.432064G	9.46	-20.54	1.6377G	-44.45	2.3984G	-55.00	2.48382G	-41.89	3.282082G	-35.39	1
2462MHz	Pass	2.432064G	9.46	-20.54	1.6377G	-50.40	2.39168G	-56.56	2.4839G	-43.25	3.282082G	-41.00	2
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.429559G	9.08	-20.92	1.61673G	-46.70	2.3992G	-32.50	2.49598G	-52.79	3.214652G	-33.54	1
2412MHz	Pass	2.429559G	9.08	-20.92	1.61673G	-54.89	2.39992G	-35.28	2.49598G	-56.88	3.214652G	-40.75	2
2437MHz	Pass	2.429559G	9.08	-20.92	1.62372G	-44.22	2.3992G	-36.91	2.48574G	-43.92	3.248367G	-37.94	1
2437MHz	Pass	2.429559G	9.08	-20.92	1.63537G	-53.12	2.3992G	-37.95	2.48374G	-45.41	3.248367G	-45.88	2
2462MHz	Pass	2.429559G	9.08	-20.92	1.643525G	-44.49	2.39968G	-55.35	2.4839G	-45.47	3.282082G	-35.15	1
2462MHz	Pass	2.429559G	9.08	-20.92	1.63537G	-51.87	2.39992G	-55.69	2.48406G	-45.33	3.282082G	-41.03	2
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.431897G	2.71	-27.29	1.62613G	-46.30	2.39792G	-37.88	2.56014G	-50.85	3.228181G	-33.90	1
2422MHz	Pass	2.431897G	2.71	-27.29	1.622695G	-55.68	2.39696G	-39.01	2.49598G	-53.83	3.228181G	-41.84	2
2437MHz	Pass	2.431897G	2.71	-27.29	1.636435G	-47.00	2.39968G	-33.90	2.48382G	-43.69	3.247813G	-35.44	1
2437MHz	Pass	2.431897G	2.71	-27.29	1.620405G	-56.62	2.39696G	-40.96	2.48414G	-46.73	3.247813G	-44.05	2
2452MHz	Pass	2.431897G	2.71	-27.29	1.627275G	-47.48	2.39584G	-48.30	2.4859G	-43.47	3.267445G	-36.07	1
2452MHz	Pass	2.431897G	2.71	-27.29	1.63529G	-57.76	2.39872G	-49.57	2.48446G	-43.81	3.267445G	-45.15	2
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.430728G	11.65	-18.35	1.620225G	-40.28	2.39792G	-35.19	2.49598G	-53.02	3.214652G	-33.12	1
2412MHz	Pass	2.430728G	11.65	-18.35	1.61906G	-54.24	2.39848G	-34.98	2.49598G	-56.34	3.214652G	-39.71	2
2437MHz	Pass	2.430728G	11.65	-18.35	1.62139G	-43.94	2.39984G	-37.20	2.4863G	-45.85	3.248367G	-37.05	1
2437MHz	Pass	2.430728G	11.65	-18.35	1.62605G	-51.08	2.39976G	-37.14	2.48694G	-46.05	3.248367G	-44.45	2
2462MHz	Pass	2.430728G	11.65	-18.35	1.63304G	-43.21	2.39328G	-55.30	2.48358G	-37.58	3.282082G	-35.35	1
2462MHz	Pass	2.430728G	11.65	-18.35	1.64003G	-43.14	2.39672G	-55.12	2.48374G	-36.46	5.807879G	-33.63	2
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.434402G	3.66	-26.34	1.62384G	-45.78	2.39456G	-39.33	2.49182G	-50.07	3.228181G	-32.58	1
2422MHz	Pass	2.434402G	3.66	-26.34	2.305115G	-57.64	2.3984G	-36.47	2.48702G	-54.73	3.228181G	-40.81	2
2437MHz	Pass	2.434402G	3.66	-26.34	1.62155G	-46.49	2.39984G	-35.89	2.49198G	-41.35	3.247813G	-34.51	1
2437MHz	Pass	2.434402G	3.66	-26.34	1.631855G	-54.18	2.39824G	-36.81	2.4851G	-42.93	3.247813G	-42.89	2
2452MHz	Pass	2.434402G	3.66	-26.34	1.63758G	-48.45	2.39952G	-46.39	2.48382G	-40.61	3.267445G	-35.52	1
2452MHz	Pass	2.434402G	3.66	-26.34	1.64216G	-57.99	2.39456G	-46.94	2.4859G	-42.51	3.267445G	-44.42	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

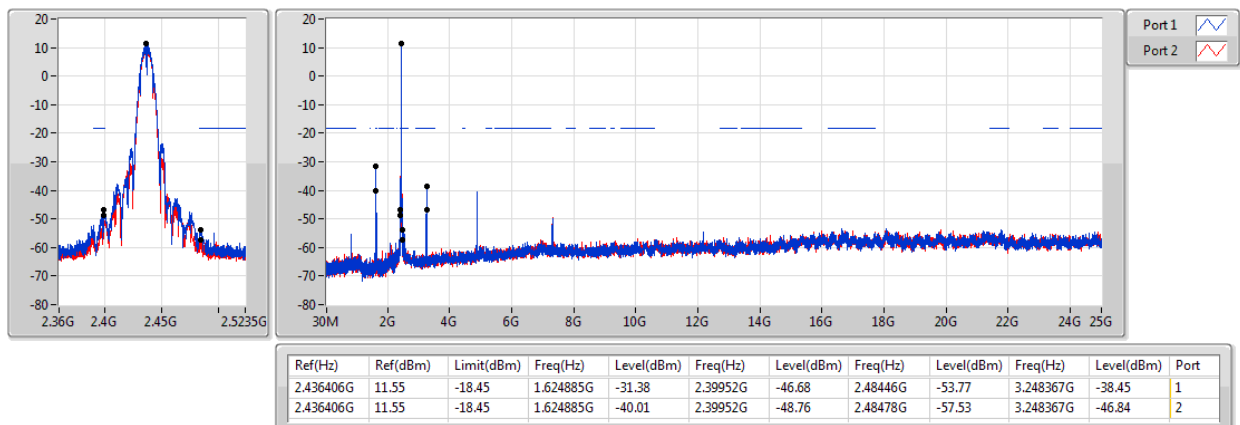
2412MHz



802.11b_Nss1,(1Mbps)_2TX

CSE NdB

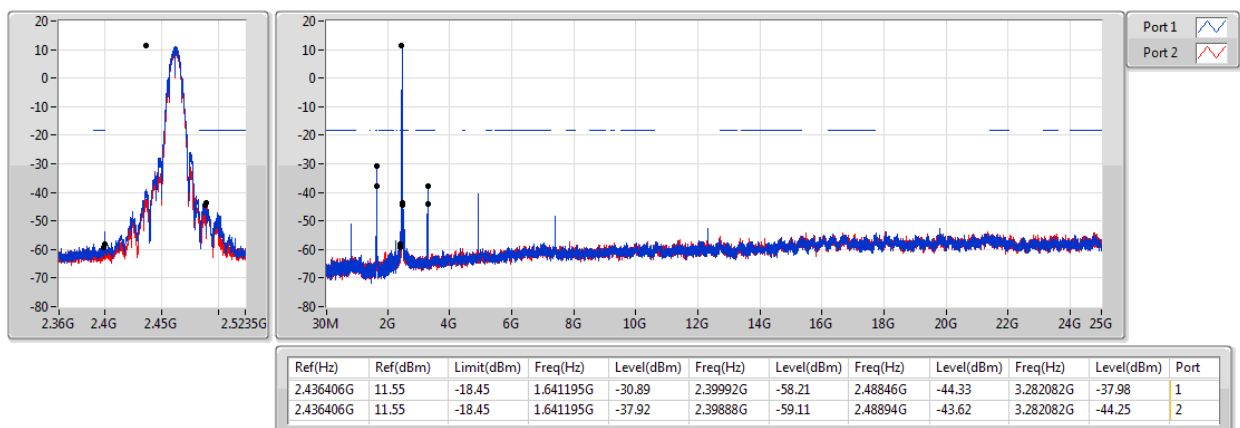
2437MHz



802.11b_Nss1,(1Mbps)_2TX

CSE NdB

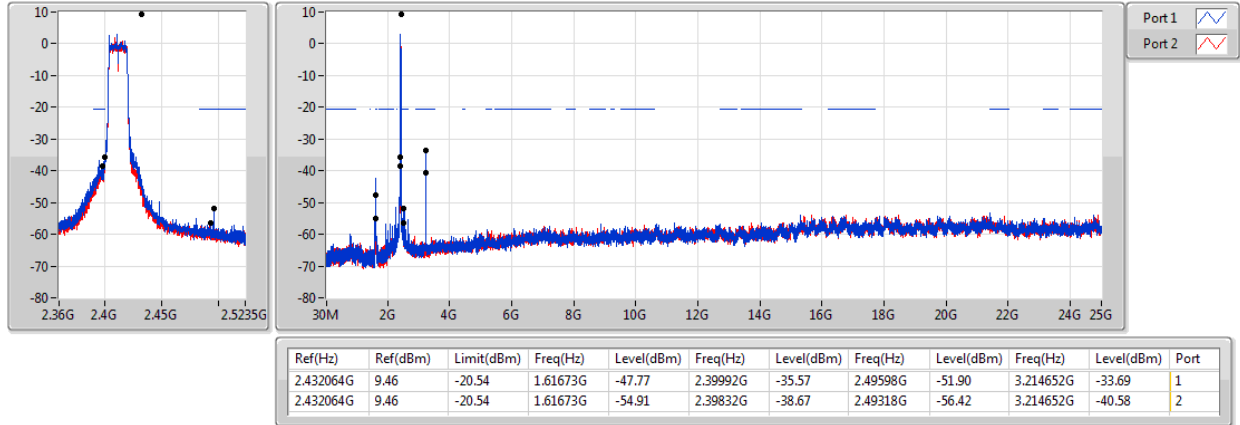
2462MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

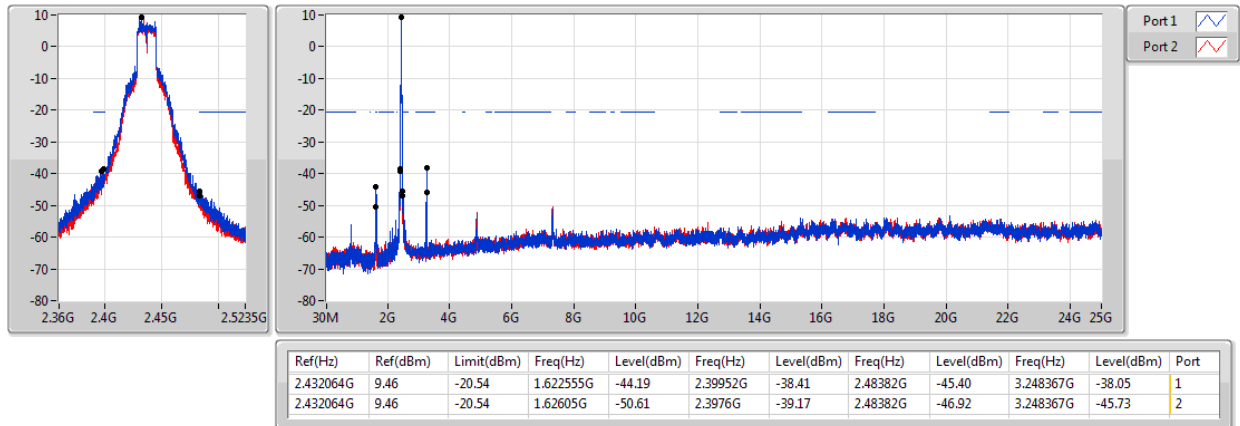
2412MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

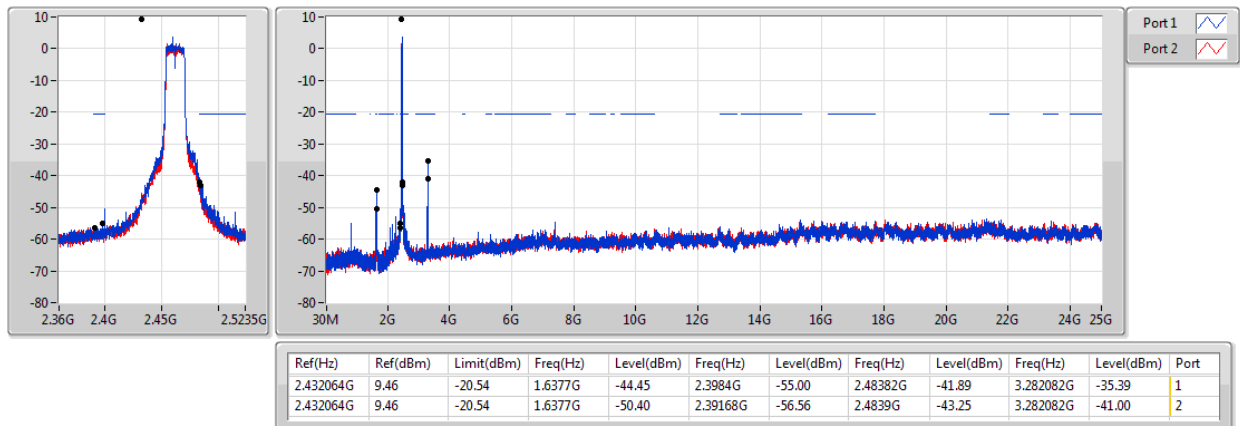
2437MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

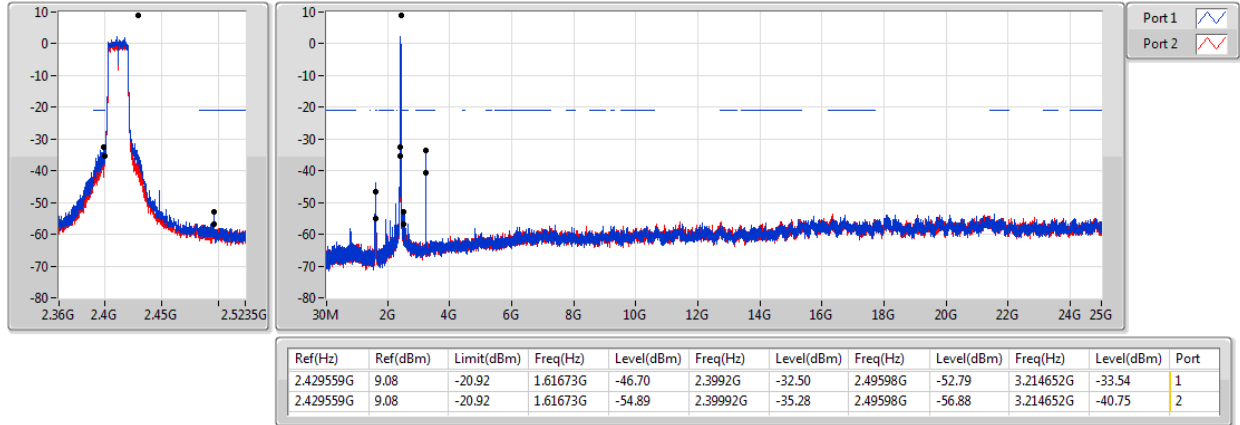
2462MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

CSE NdB

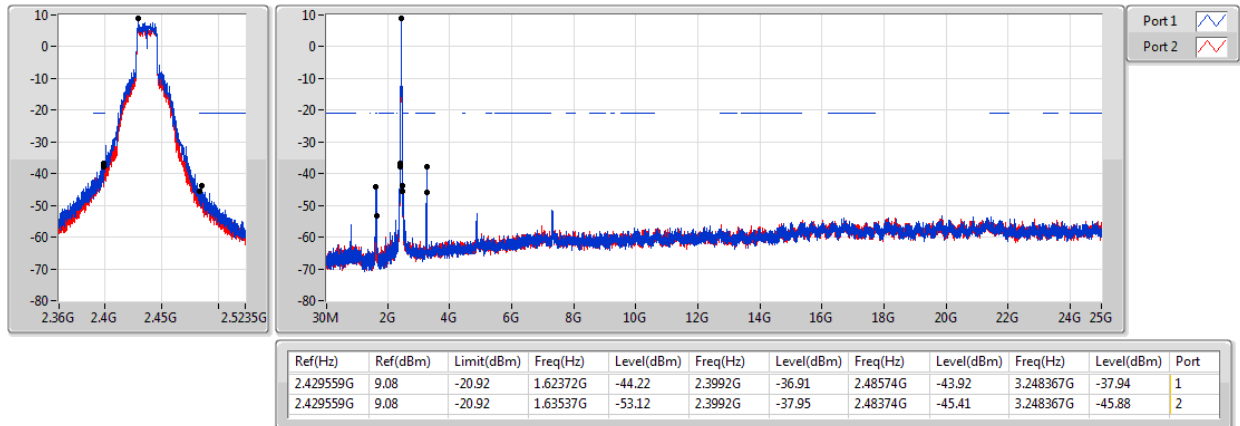
2412MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

CSE NdB

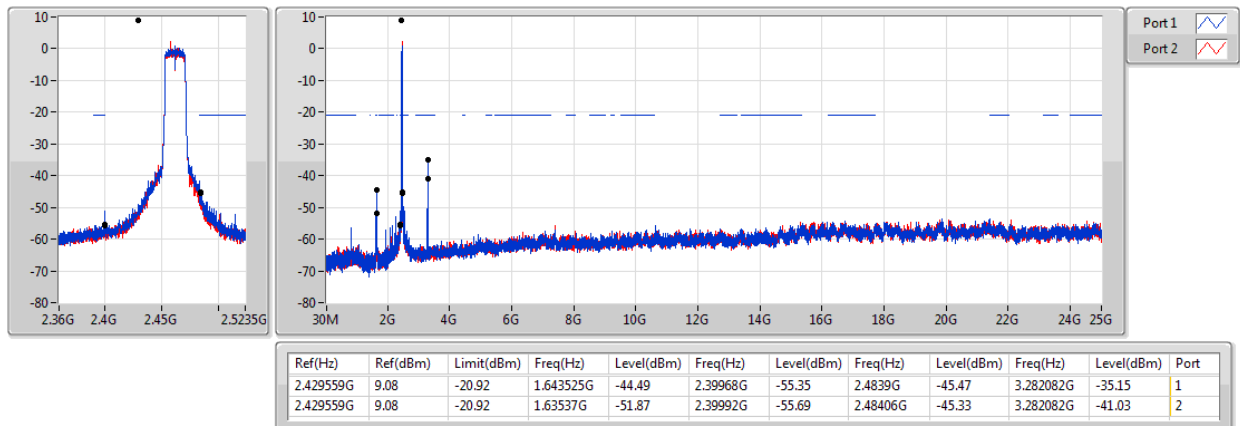
2437MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

CSE NdB

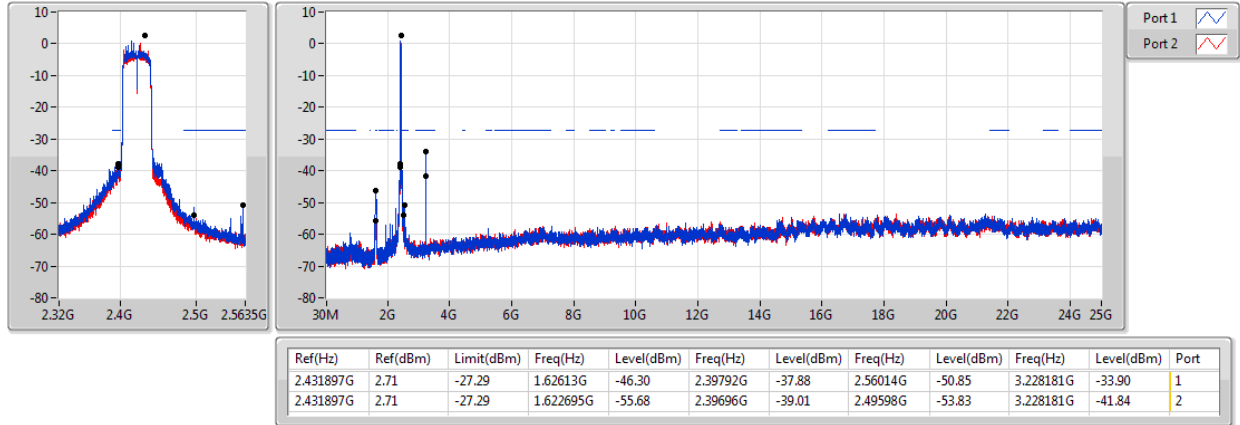
2462MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

CSE NdB

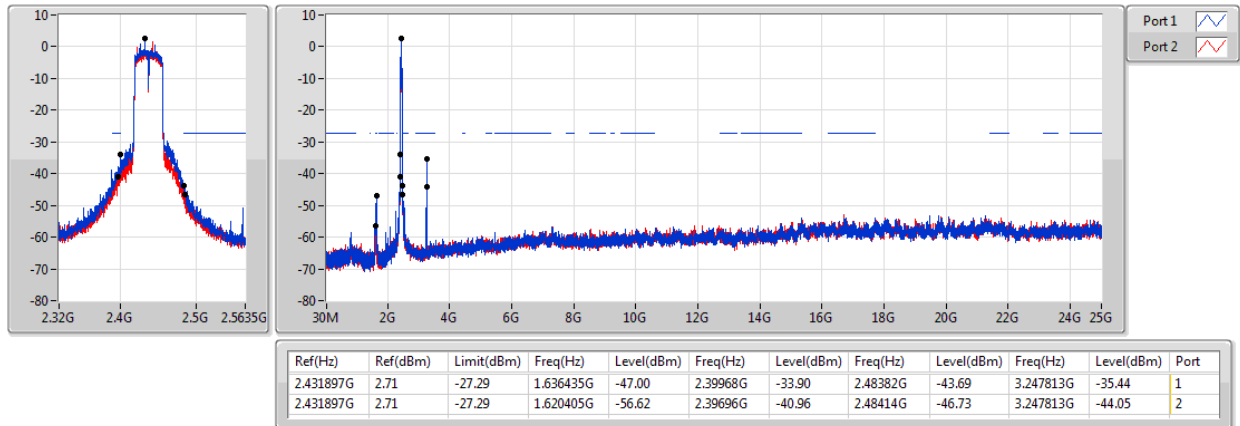
2422MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

CSE NdB

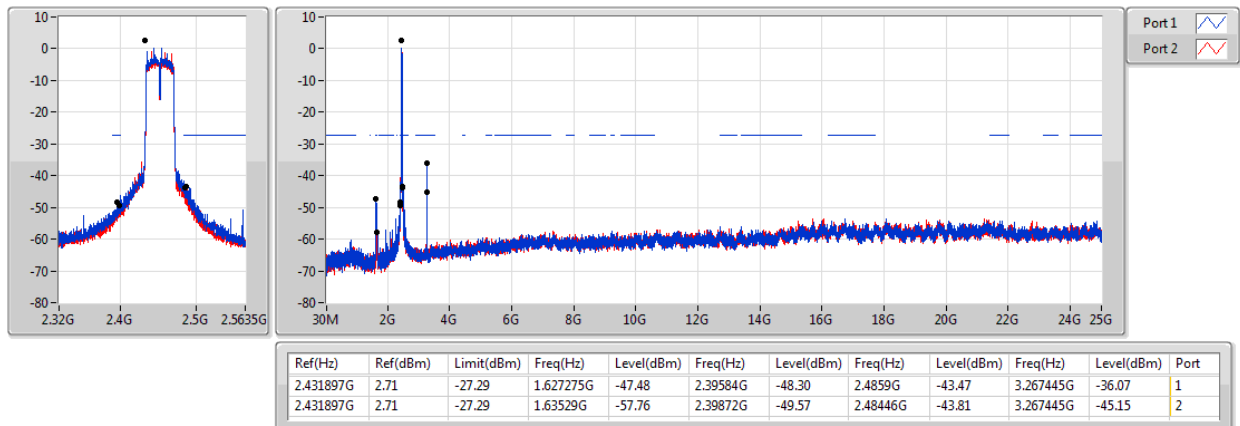
2437MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

CSE NdB

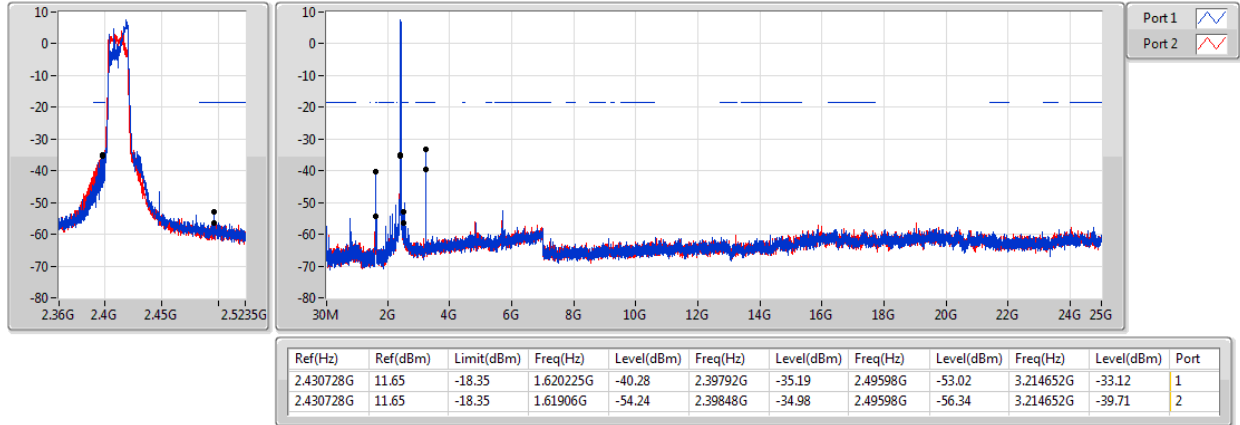
2452MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

CSE NdB

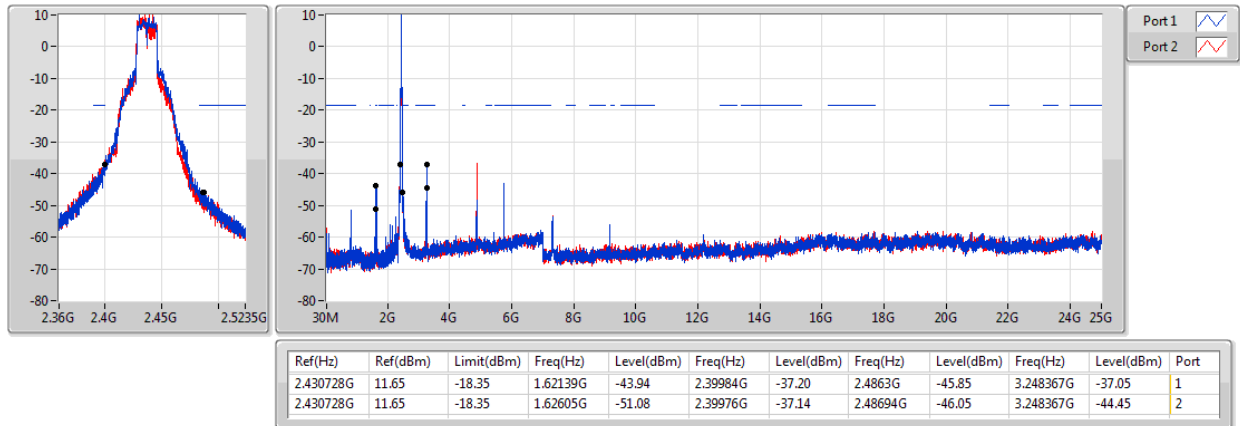
2412MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

CSE NdB

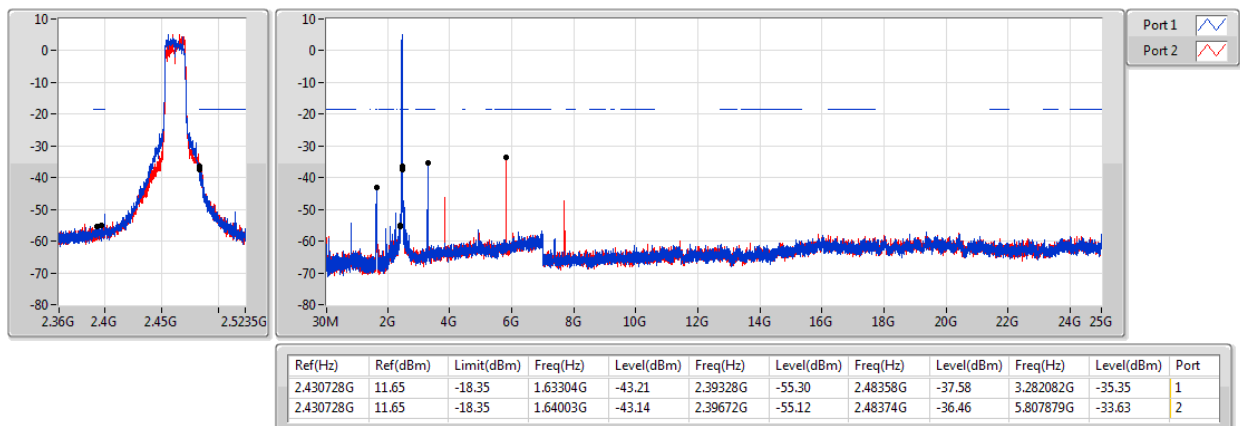
2437MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

CSE NdB

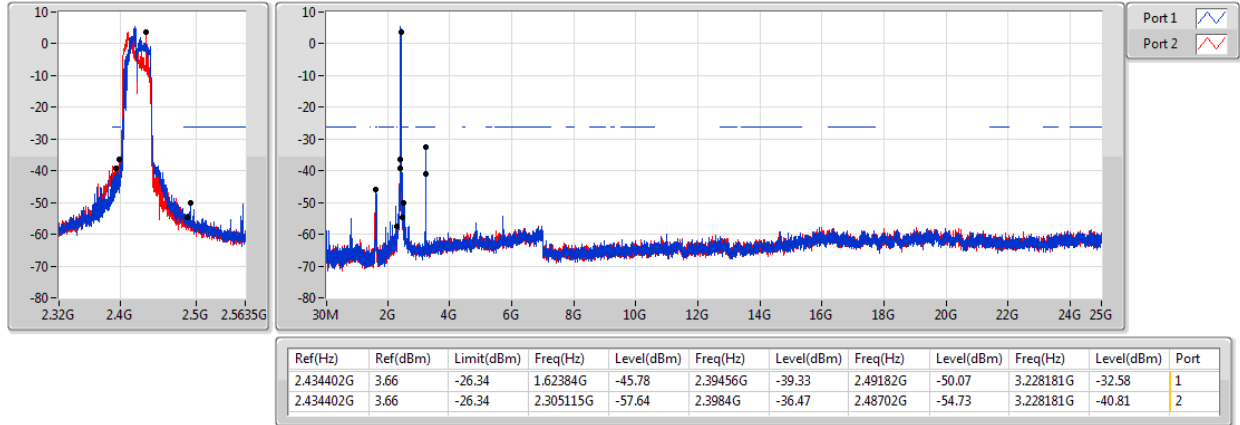
2462MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

CSE NdB

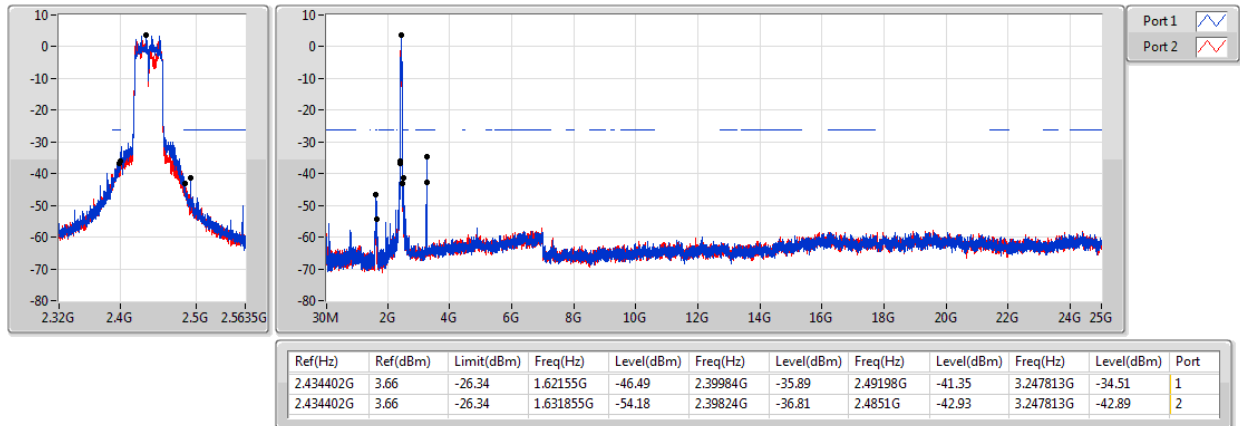
2422MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

CSE NdB

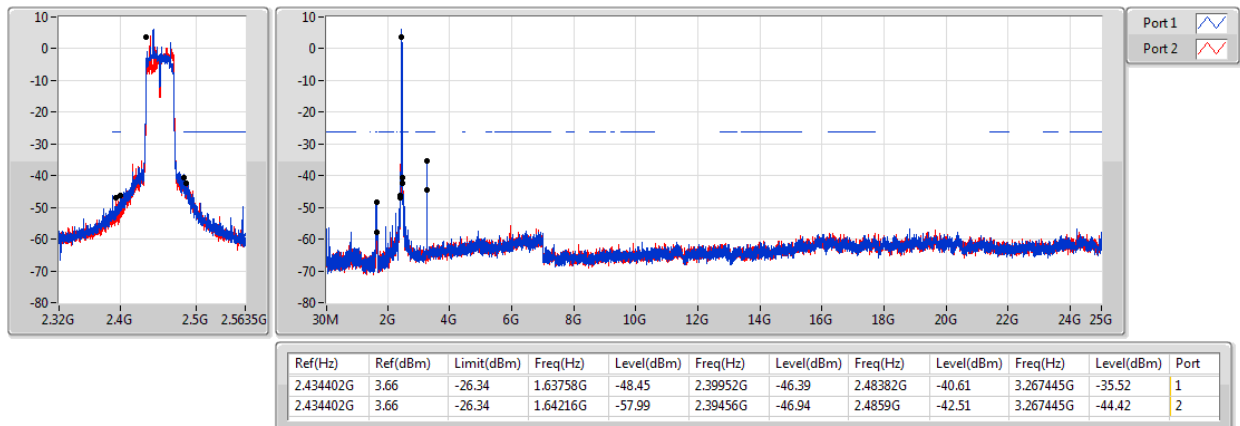
2437MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

CSE NdB

2452MHz



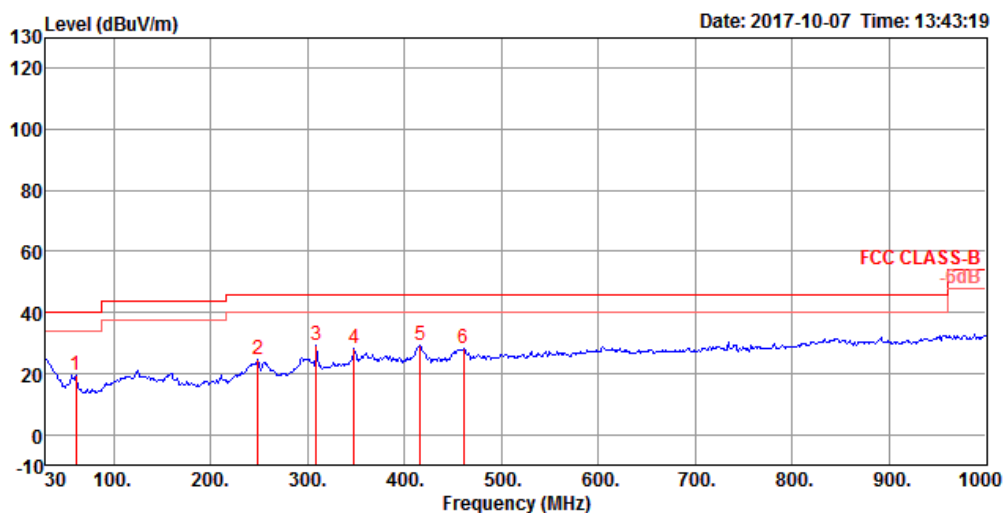


RSE (30-1GHz and Unintentional 1GHz~5th Harmonic) Result

Appendix F.1

RSE below 1GHz Result

Operating Mode	1	Polarization	Horizontal
Operating Function	Intentional-CTX - EUT in Z axis (2.4G)		



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	61.04	19.44	40.00	-20.56	38.26	0.90	12.69	32.41	200	0 Peak	HORIZONTAL
2	249.22	24.61	46.00	-21.39	36.34	1.83	18.73	32.29	200	0 Peak	HORIZONTAL
3	309.36	29.36	46.00	-16.64	39.65	2.03	19.95	32.27	200	0 Peak	HORIZONTAL
4	348.16	28.25	46.00	-17.75	37.32	2.17	21.04	32.28	200	0 Peak	HORIZONTAL
5	416.06	29.19	46.00	-16.81	36.53	2.36	22.60	32.30	200	0 Peak	HORIZONTAL
6	460.68	28.04	46.00	-17.96	34.68	2.49	23.19	32.32	200	0 Peak	HORIZONTAL

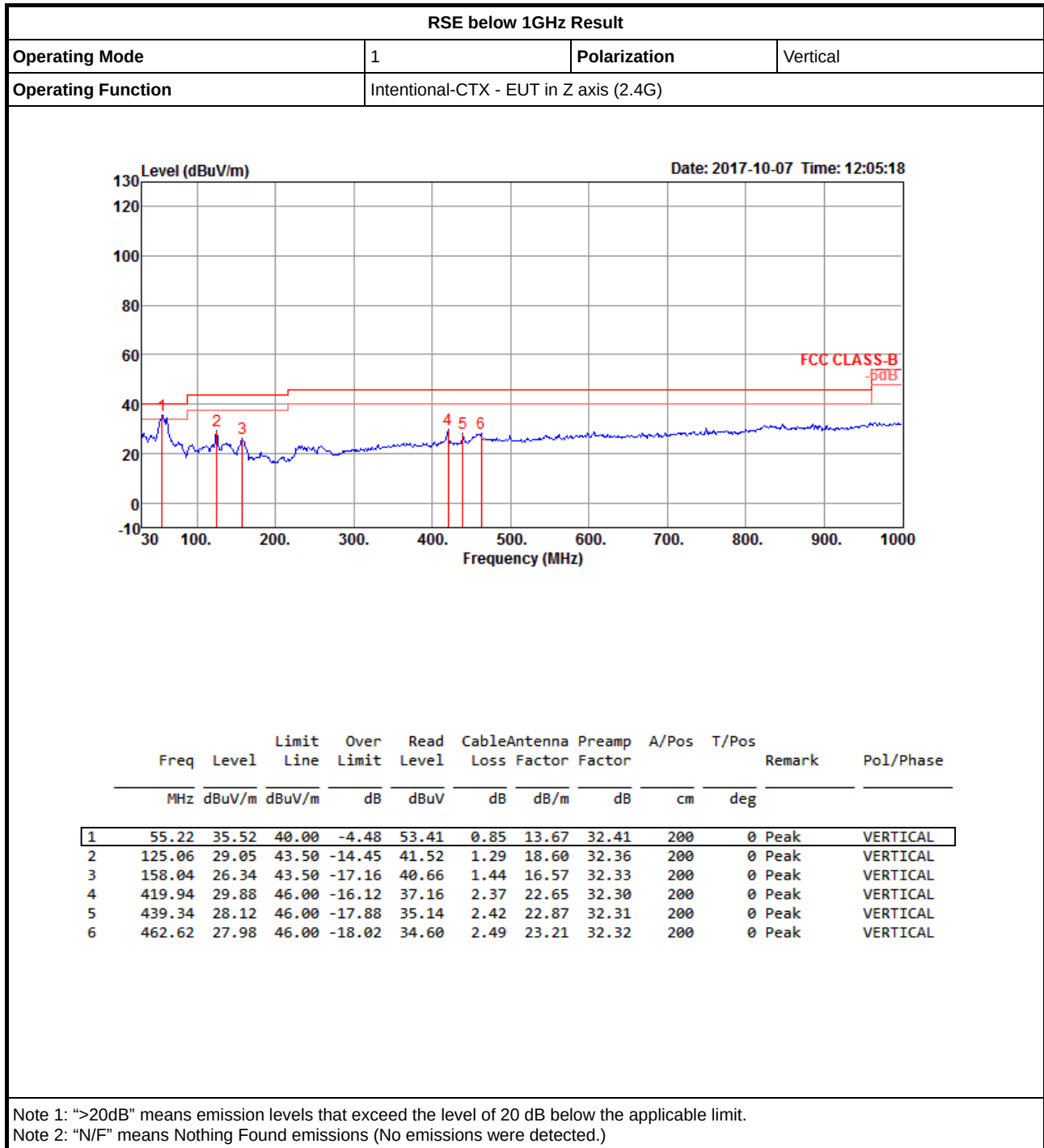
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

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



RSE (30-1GHz and Unintentional 1GHz~5th Harmonic) Result

Appendix F.1



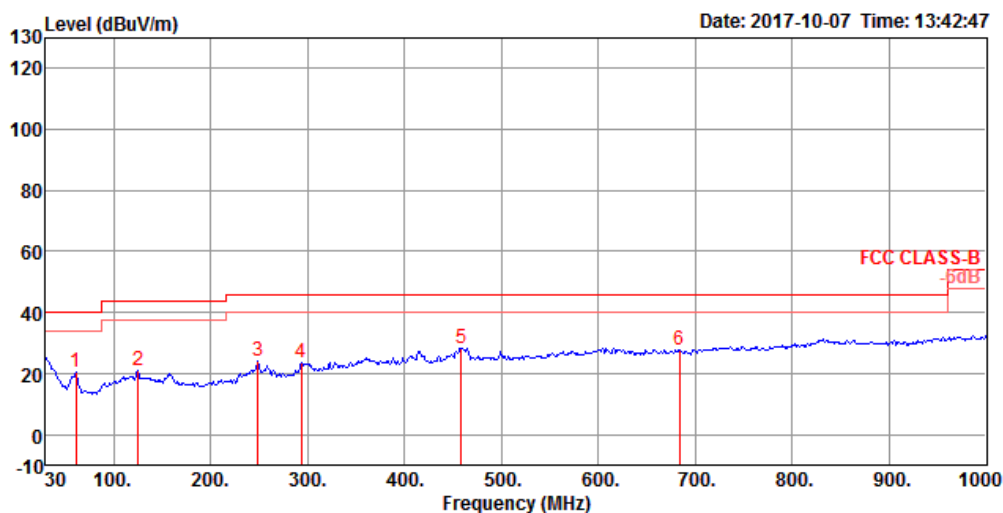


RSE (30-1GHz and Unintentional 1GHz~5th Harmonic) Result

Appendix F.1

RSE below 1GHz Result

Operating Mode	1	Polarization	Horizontal
Operating Function	Unintentional-CRX - EUT in Z axis (2.4G)		



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	61.04	20.23	40.00	-19.77	39.05	0.90	12.69	32.41	200	360 Peak	HORIZONTAL
2	125.06	20.74	43.50	-22.76	33.21	1.29	18.60	32.36	200	360 Peak	HORIZONTAL
3	249.22	24.04	46.00	-21.96	35.77	1.83	18.73	32.29	200	360 Peak	HORIZONTAL
4	293.84	23.50	46.00	-22.50	34.21	1.98	19.58	32.27	200	360 Peak	HORIZONTAL
5	458.74	28.40	46.00	-17.60	35.07	2.48	23.16	32.31	200	360 Peak	HORIZONTAL
6	683.78	27.92	46.00	-18.08	31.76	3.04	25.47	32.35	200	360 Peak	HORIZONTAL

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

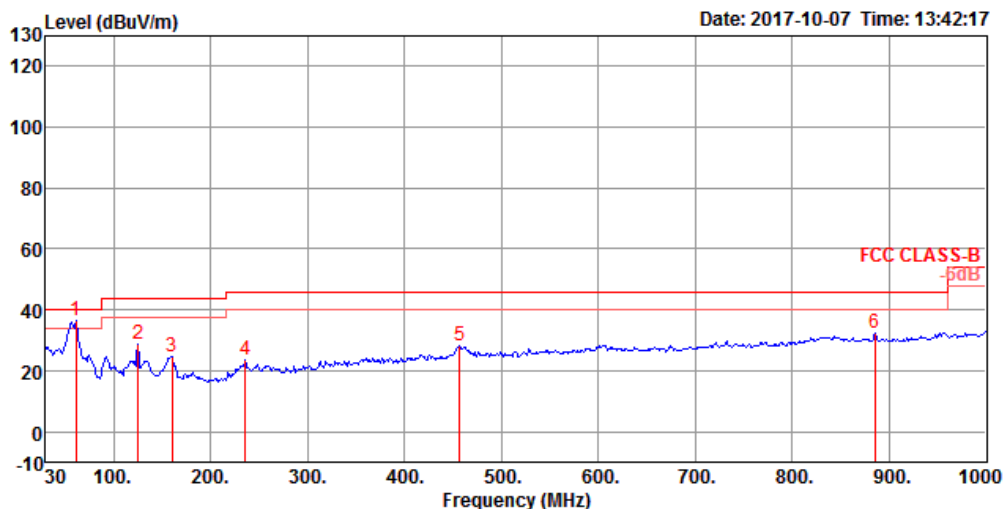


RSE (30-1GHz and Unintentional 1GHz~5th Harmonic) Result

Appendix F.1

RSE below 1GHz Result

Operating Mode	1	Polarization	Vertical
Operating Function	Unintentional-CRX - EUT in Z axis (2.4G)		



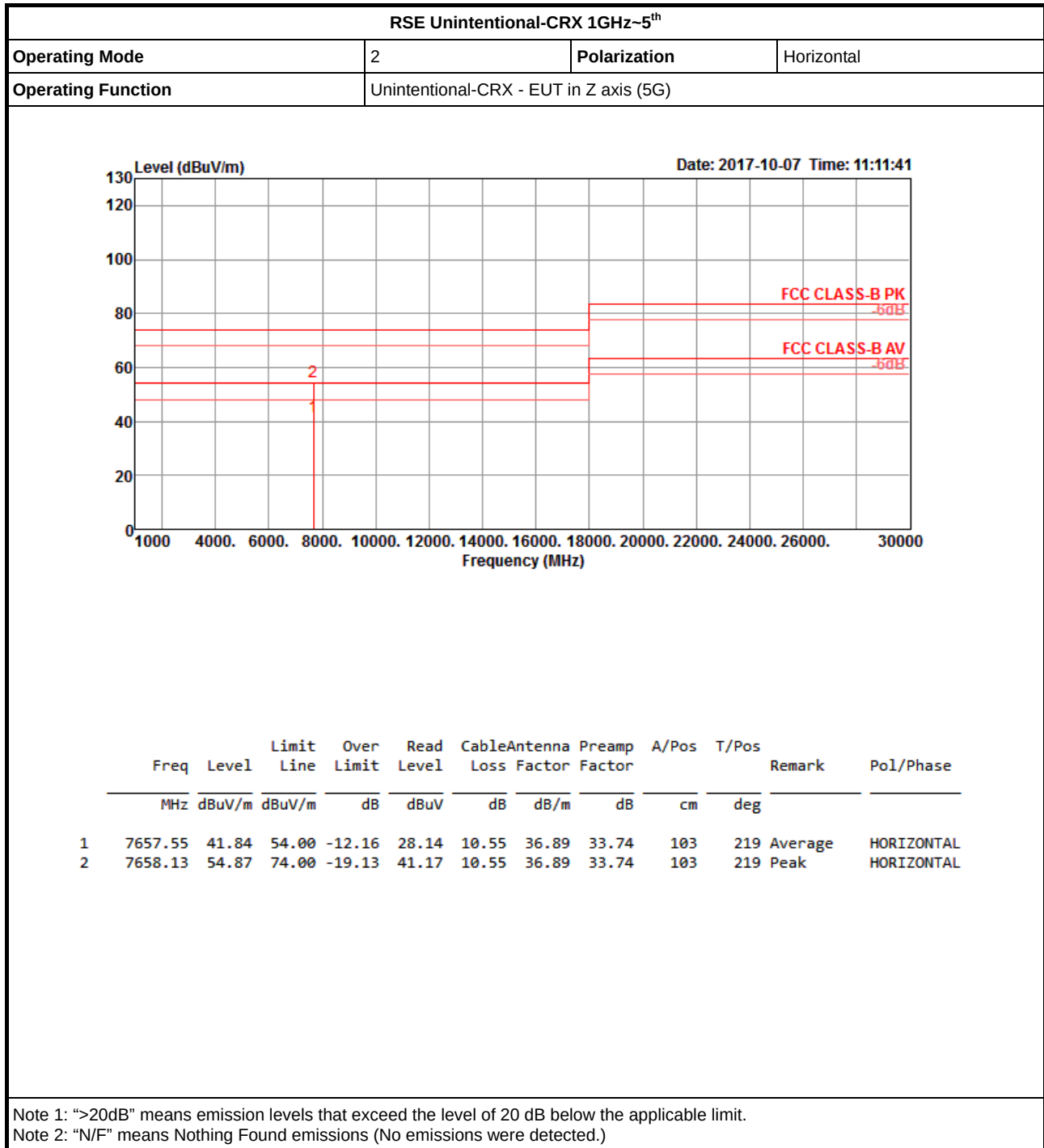
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	Remark
1	61.04	36.30	40.00	-3.70	55.12	0.90	12.69	32.41	200	360	Peak
2	125.06	28.59	43.50	-14.91	41.06	1.29	18.60	32.36	200	360	Peak
3	159.98	24.74	43.50	-18.76	39.12	1.45	16.50	32.33	200	360	Peak
4	235.64	23.73	46.00	-22.27	36.62	1.78	17.62	32.29	200	360	Peak
5	456.80	28.07	46.00	-17.93	34.77	2.48	23.13	32.31	200	360	Peak
6	885.54	32.29	46.00	-13.71	33.07	3.47	27.41	31.66	200	360	Peak

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



RSE (30-1GHz and Unintentional 1GHz~5th Harmonic) Result

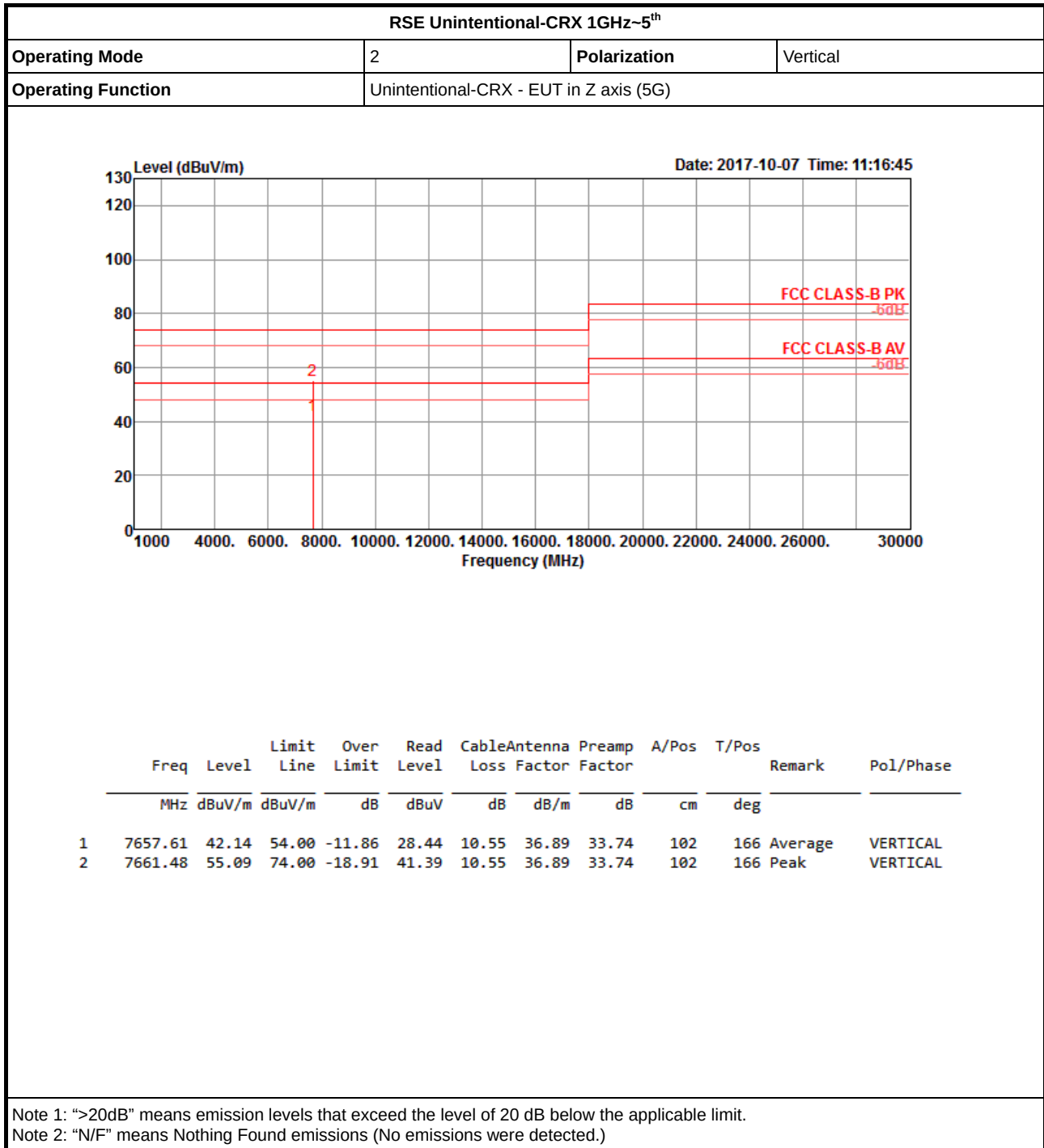
Appendix F.1





RSE (30-1GHz and Unintentional 1GHz~5th Harmonic) Result

Appendix F.1





RSE TX above 1GHz Result

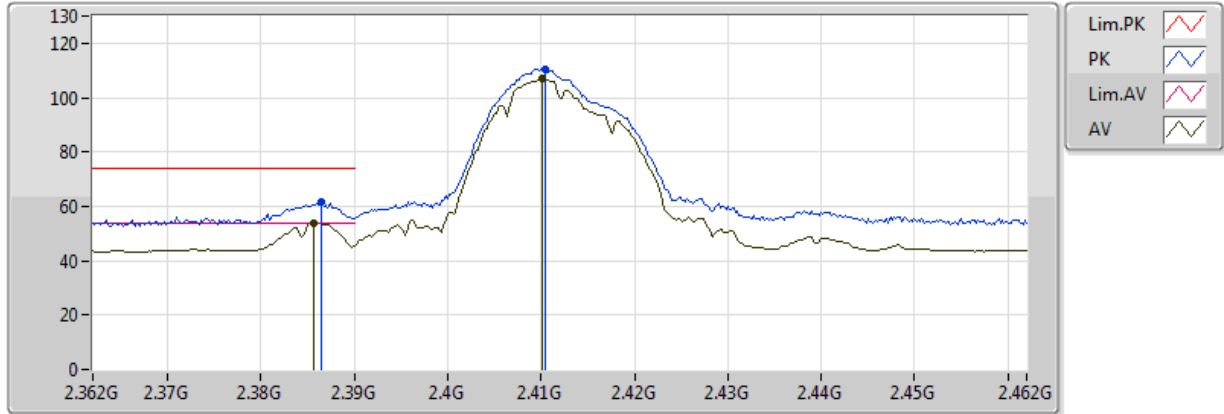
Appendix F.2

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	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	Pass	AV	2.39G	53.99	54.00	-0.01	31.94	3	Vertical	297	2.80	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

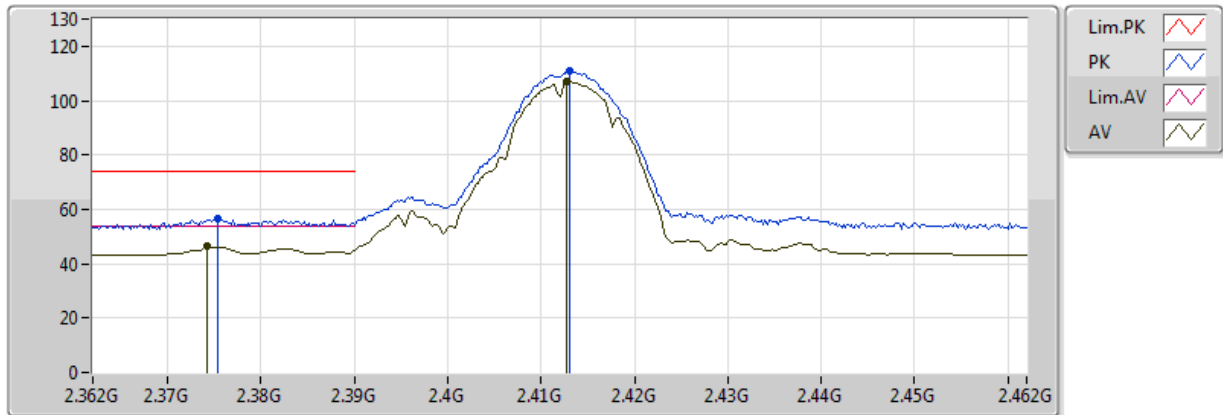


20170928
EUT_Z_2TX
Setting 19
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3856G	53.81	54.00	-0.19	30.96	3	Vertical	356	2.89					
AV	2.4102G	106.75	Inf	-Inf	30.93	3	Vertical	356	2.89					
PK	2.3864G	61.36	74.00	-12.64	30.96	3	Vertical	356	2.89					
PK	2.4104G	110.24	Inf	-Inf	30.93	3	Vertical	356	2.89					

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

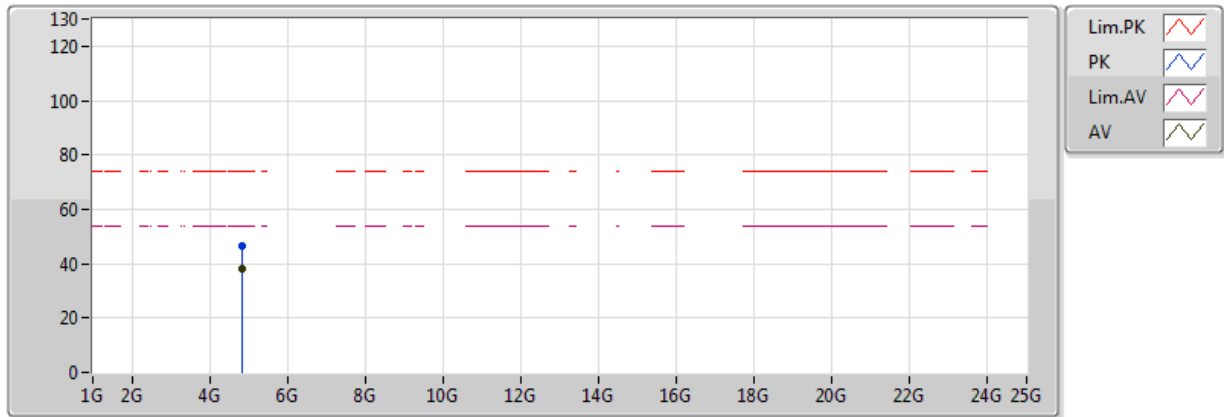


20170928
EUT_Z_2TX
Setting 19
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3742G	46.30	54.00	-7.70	30.97	3	Horizontal	253	1.83					
AV	2.4128G	106.77	Inf	-Inf	30.93	3	Horizontal	253	1.83					
PK	2.3754G	56.51	74.00	-17.49	30.97	3	Horizontal	253	1.83					
PK	2.413G	110.94	Inf	-Inf	30.93	3	Horizontal	253	1.83					

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

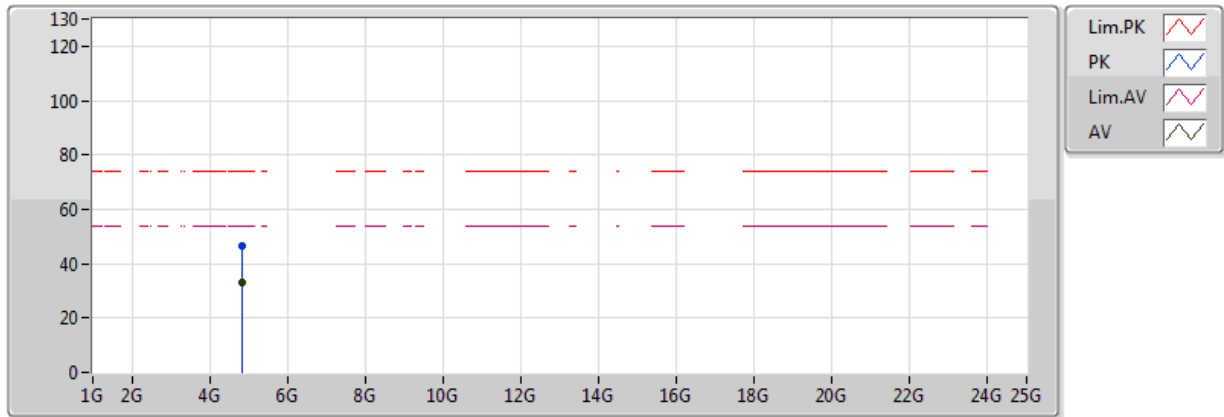


20170928
EUT_Z_2TX
Setting 19
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.824G	37.95	54.00	-16.05	3.23	3	Vertical	325	2.94					
PK	4.824G	46.54	74.00	-27.46	3.23	3	Vertical	325	2.94					

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

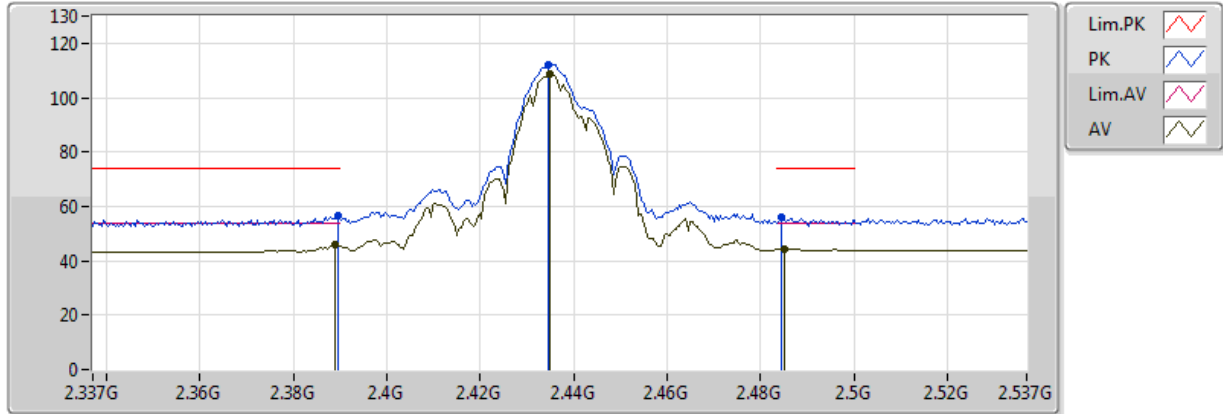


20170928
EUT_Z_2TX
Setting 19
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.82402G	33.25	54.00	-20.75	3.23	3	Horizontal	242	2.44					
PK	4.82368G	46.33	74.00	-27.67	3.23	3	Horizontal	242	2.44					

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

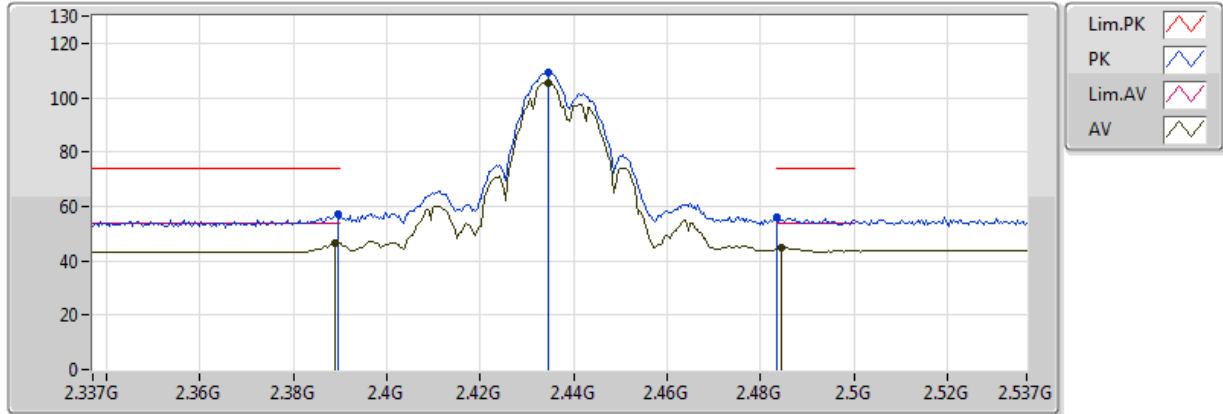


20170928
EUT_Z_2TX
Setting 21
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389G	45.88	54.00	-8.12	30.95	3	Vertical	357	2.81					
AV	2.435G	108.50	Inf	-Inf	30.91	3	Vertical	357	2.81					
AV	2.485G	44.54	54.00	-9.46	30.86	3	Vertical	357	2.81					
PK	2.3894G	56.36	74.00	-17.64	30.95	3	Vertical	357	2.81					
PK	2.4346G	112.20	Inf	-Inf	30.91	3	Vertical	357	2.81					
PK	2.4846G	55.95	74.00	-18.05	30.86	3	Vertical	357	2.81					

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

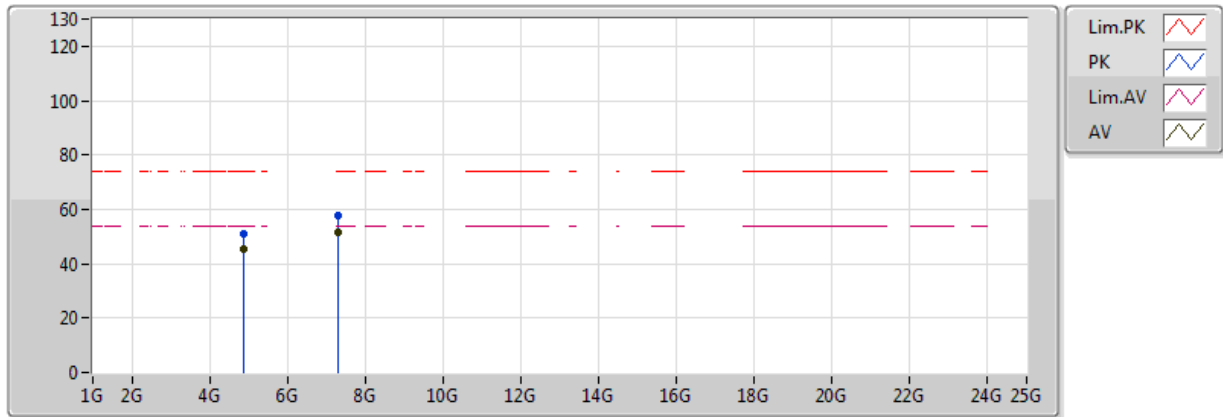


20170928
EUT_Z_2TX
Setting 21
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389G	46.43	54.00	-7.57	30.95	3	Horizontal	23	1.45					
AV	2.4346G	105.46	Inf	-Inf	30.91	3	Horizontal	23	1.45					
AV	2.4846G	44.79	54.00	-9.21	30.86	3	Horizontal	23	1.45					
PK	2.3894G	56.95	74.00	-17.05	30.95	3	Horizontal	23	1.45					
PK	2.4346G	109.42	Inf	-Inf	30.91	3	Horizontal	23	1.45					
PK	2.483502G	55.89	74.00	-18.11	30.86	3	Horizontal	23	1.45					

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

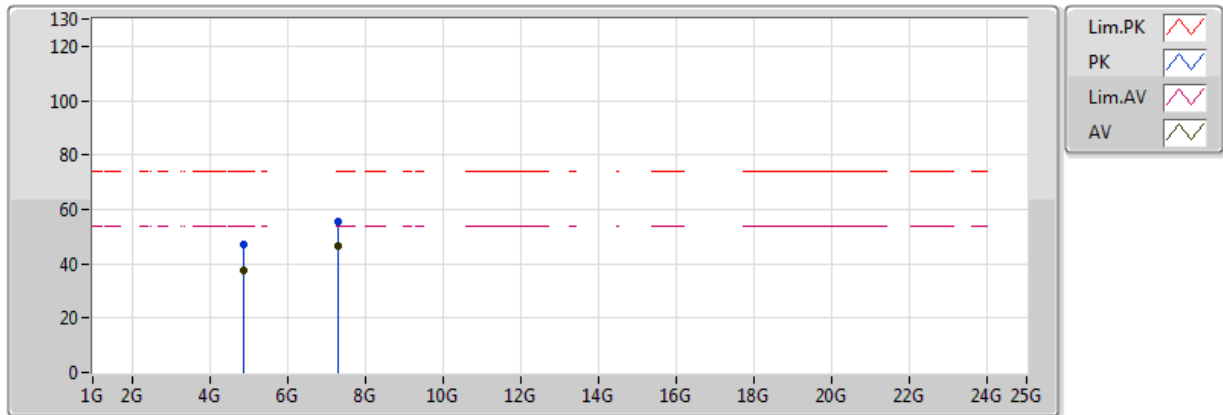


20170928
EUT_Z_2TX
Setting 21
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.87398G	45.58	54.00	-8.42	3.39	3	Vertical	325	2.51					
AV	7.31276G	51.53	54.00	-2.47	8.85	3	Vertical	360	2.74					
PK	4.87404G	50.76	74.00	-23.24	3.39	3	Vertical	325	2.51					
PK	7.31188G	57.84	74.00	-16.16	8.85	3	Vertical	360	2.74					

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

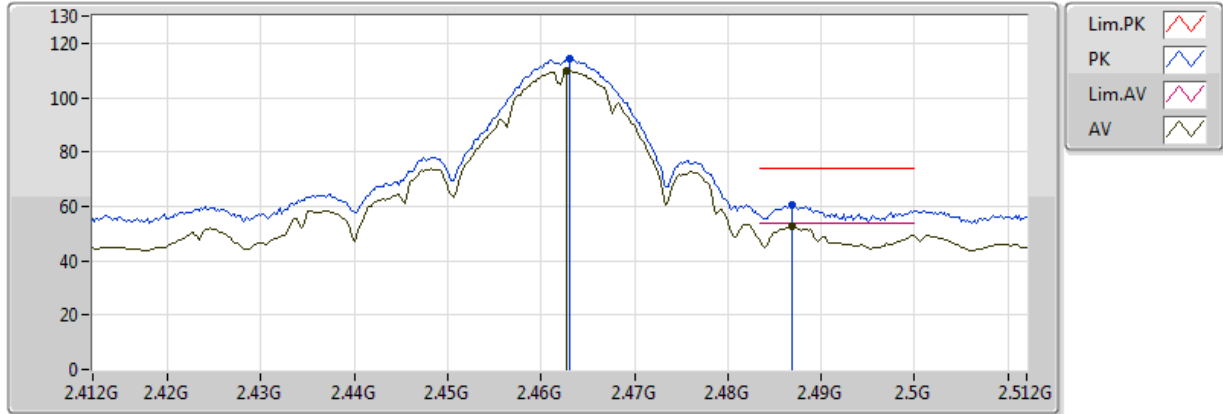


20170928
EUT_Z_2TX
Setting 21
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.874G	37.34	54.00	-16.66	3.39	3	Horizontal	231	2.43					
AV	7.31276G	46.75	54.00	-7.25	8.85	3	Horizontal	63	2.23					
PK	4.87392G	47.10	74.00	-26.90	3.39	3	Horizontal	231	2.43					
PK	7.31204G	55.28	74.00	-18.72	8.85	3	Horizontal	63	2.23					

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

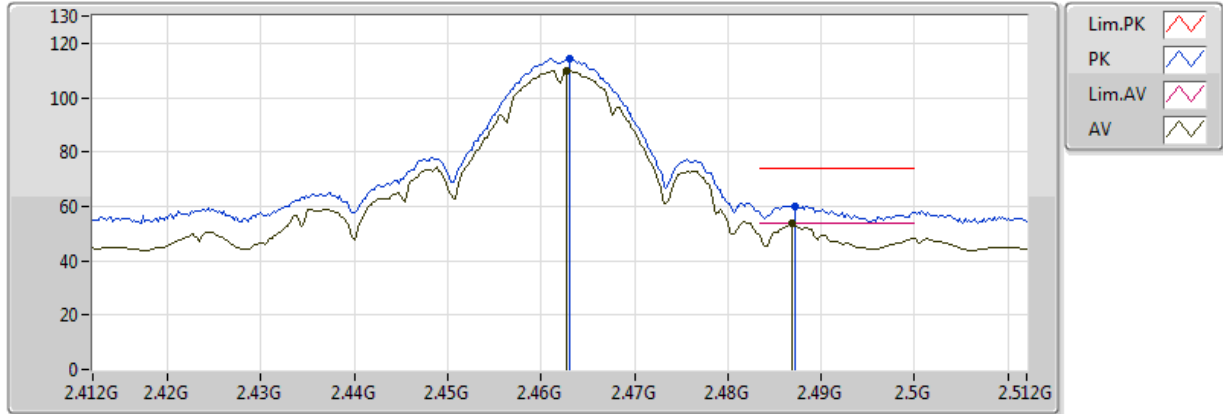


20170928
EUT_Z_2TX
Setting 20.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4628G	109.80	Inf	-Inf	30.88	3	Vertical	355	2.97					
AV	2.4868G	52.93	54.00	-1.07	30.86	3	Vertical	355	2.97					
PK	2.463G	114.21	Inf	-Inf	30.88	3	Vertical	355	2.97					
PK	2.4868G	60.44	74.00	-13.56	30.86	3	Vertical	355	2.97					

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

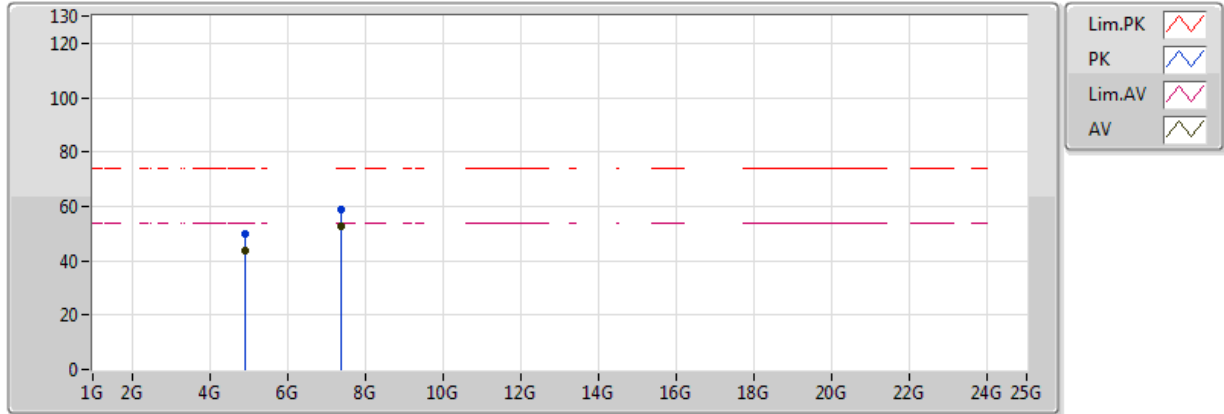


20170928
EUT_Z_2TX
Setting 20.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4628G	110.09	Inf	-Inf	30.88	3	Horizontal	24	1.45					
AV	2.4868G	53.54	54.00	-0.46	30.86	3	Horizontal	24	1.45					
PK	2.463G	114.44	Inf	-Inf	30.88	3	Horizontal	24	1.45					
PK	2.4872G	60.16	74.00	-13.84	30.86	3	Horizontal	24	1.45					

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

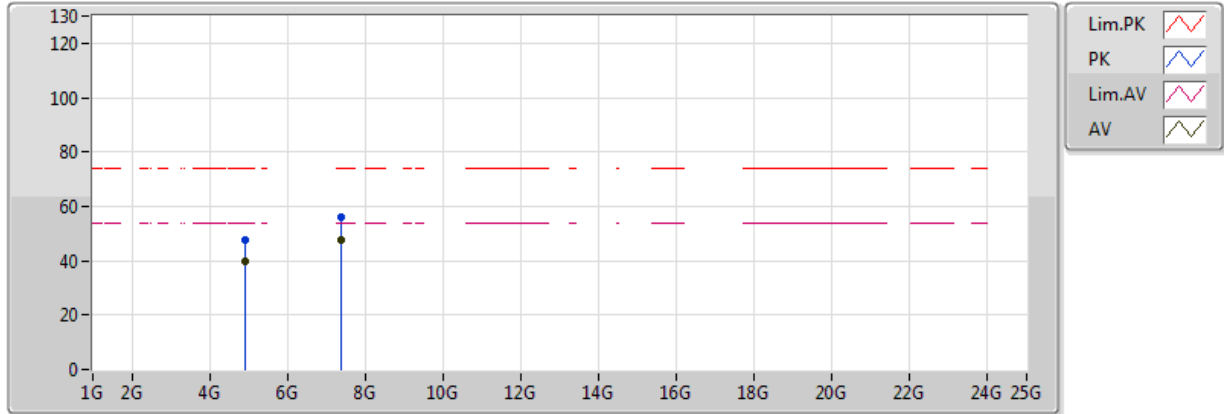


20170928
EUT_Z_2TX
Setting 20.5
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.92398G	43.69	54.00	-10.31	3.55	3	Vertical	330	2.41					
AV	7.3842G	52.86	54.00	-1.14	8.95	3	Vertical	0	2.71					
PK	4.92408G	49.95	74.00	-24.05	3.55	3	Vertical	330	2.41					
PK	7.3844G	58.95	74.00	-15.05	8.95	3	Vertical	0	2.71					

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

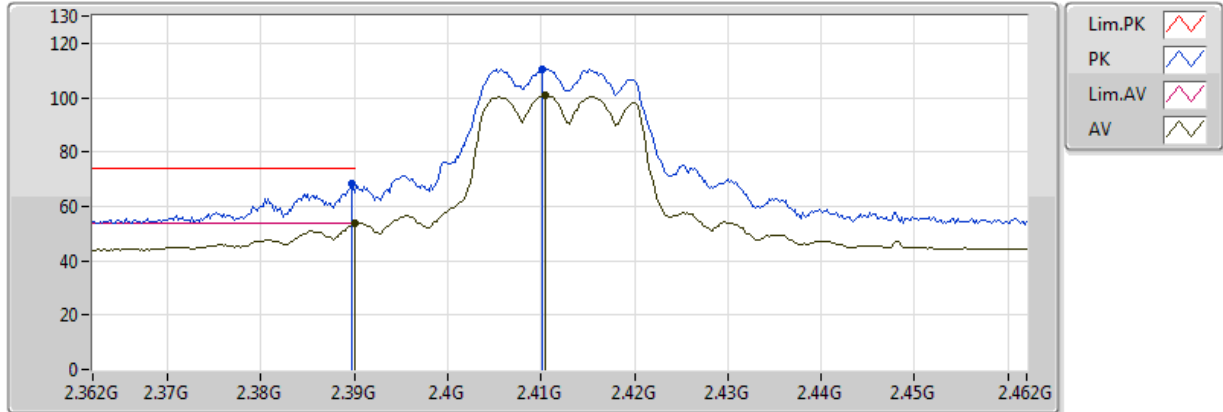


20170928
EUT_Z_2TX
Setting 20.5
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.92398G	39.53	54.00	-14.47	3.55	3	Horizontal	242	2.50					
AV	7.3842G	47.50	54.00	-6.50	8.95	3	Horizontal	232	2.53					
PK	4.92398G	47.38	74.00	-26.62	3.55	3	Horizontal	242	2.50					
PK	7.38484G	55.83	74.00	-18.17	8.95	3	Horizontal	232	2.53					

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

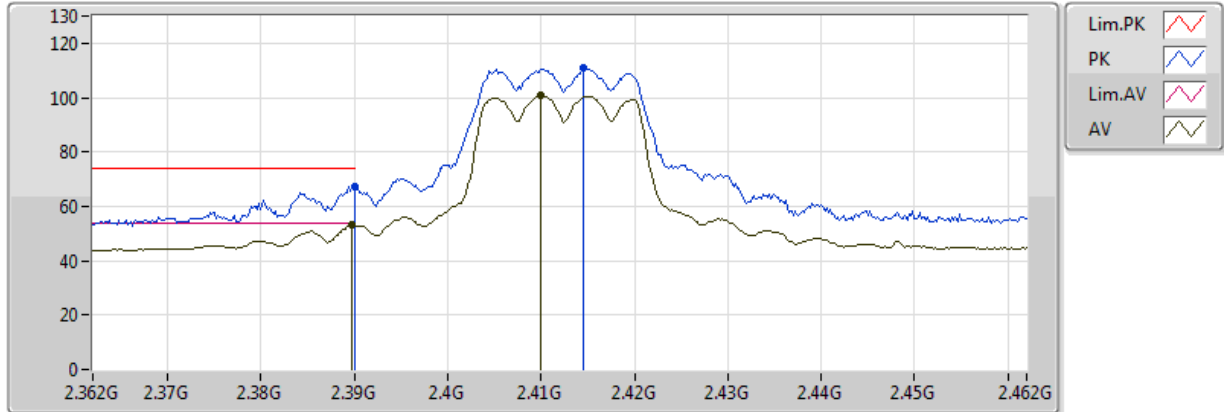


20170928
EUT_Z_2TX
Setting 15
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.389998G	53.69	54.00	-0.31	30.95	3	Vertical	360	2.97					
AV	2.4104G	100.62	Inf	-Inf	30.93	3	Vertical	360	2.97					
PK	2.3898G	68.38	74.00	-5.62	30.95	3	Vertical	360	2.97					
PK	2.4102G	110.34	Inf	-Inf	30.93	3	Vertical	360	2.97					

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

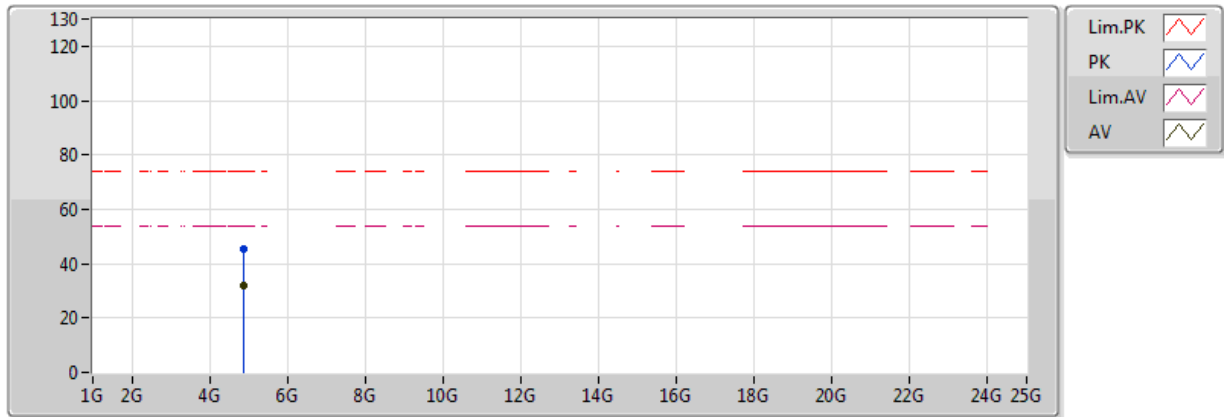


20170928
EUT_Z_2TX
Setting 15
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3898G	53.05	54.00	-0.95	30.95	3	Horizontal	24	1.00					
AV	2.41G	100.74	Inf	-Inf	30.93	3	Horizontal	24	1.00					
PK	2.389998G	67.45	74.00	-6.55	30.95	3	Horizontal	24	1.00					
PK	2.4146G	110.75	Inf	-Inf	30.93	3	Horizontal	24	1.00					

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

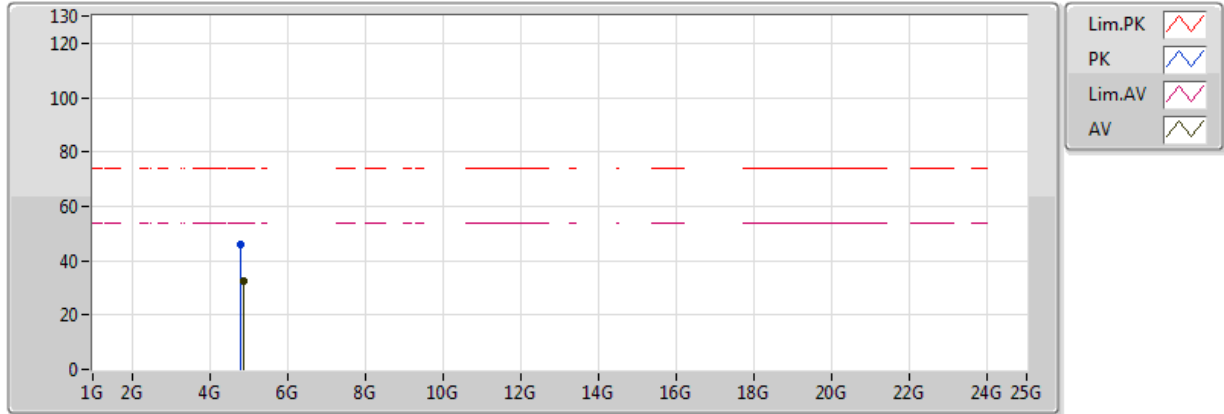


20170928
EUT_Z_2TX
Setting 15
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.8684G	32.10	54.00	-21.90	3.37	3	Vertical	343	1.33					
PK	4.8708G	45.59	74.00	-28.41	3.38	3	Vertical	343	1.33					

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

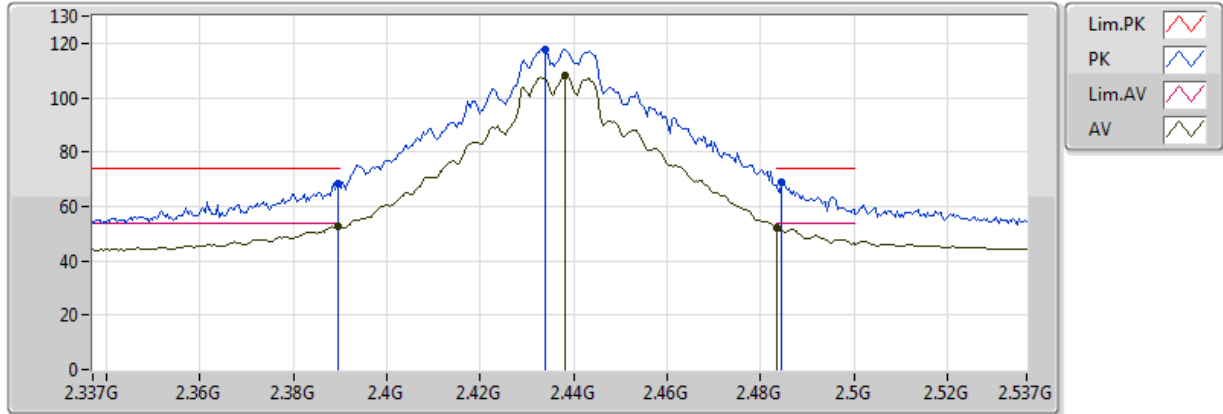


20170928
EUT_Z_2TX
Setting 15
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.8708G	32.30	54.00	-21.70	3.38	3	Horizontal	262	1.16					
PK	4.785G	45.99	74.00	-28.01	3.11	3	Horizontal	262	1.16					

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

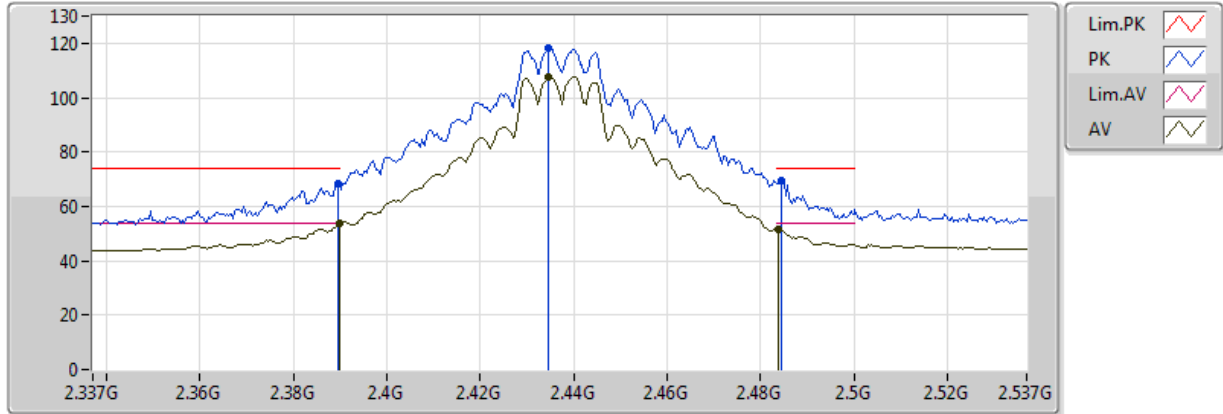


20170928
EUT_Z_2TX
Setting 23
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3894G	52.83	54.00	-1.17	30.95	3	Vertical	280	2.25					
AV	2.4382G	107.87	Inf	-Inf	30.91	3	Vertical	280	2.25					
AV	2.483502G	51.93	54.00	-2.07	30.86	3	Vertical	280	2.25					
PK	2.3894G	68.46	74.00	-5.54	30.95	3	Vertical	280	2.25					
PK	2.4338G	117.82	Inf	-Inf	30.91	3	Vertical	280	2.25					
PK	2.4846G	69.13	74.00	-4.87	30.86	3	Vertical	280	2.25					

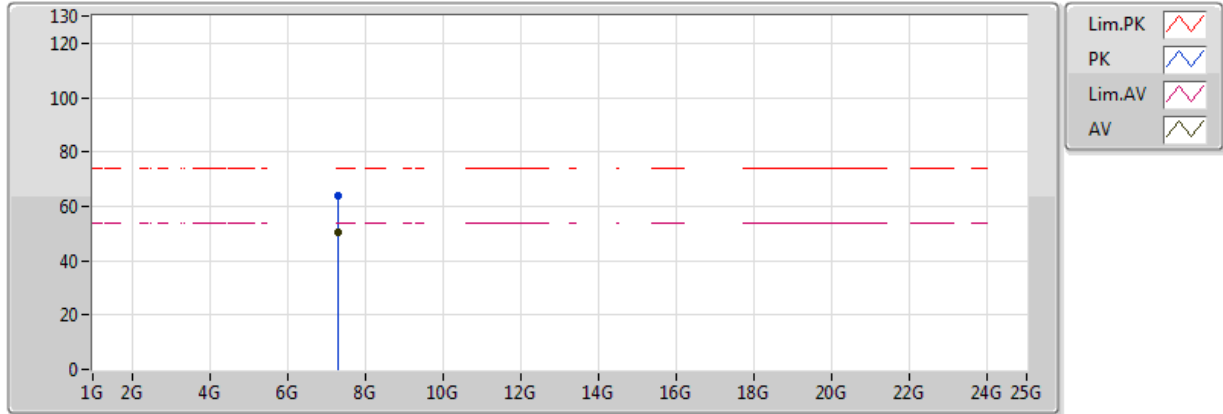
802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX



802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

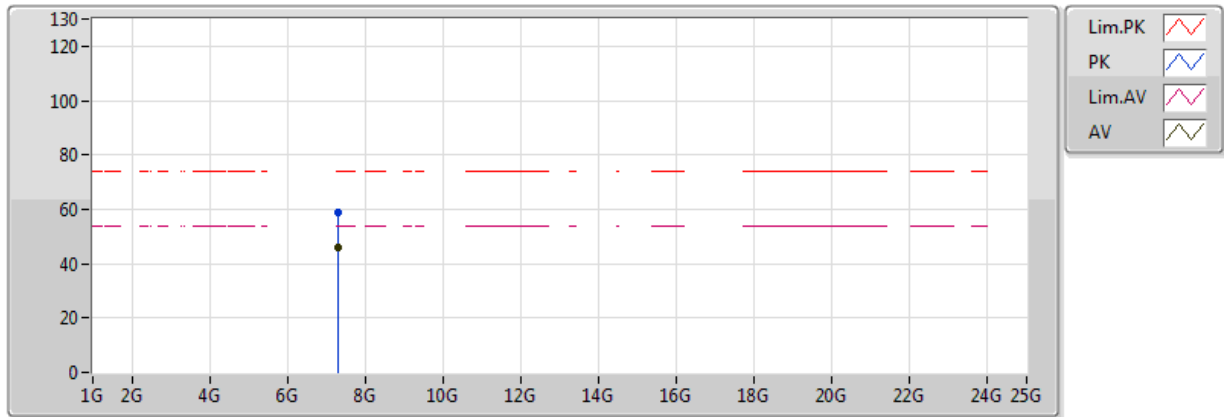


20170928
EUT_Z_2TX
Setting 23
01-C-5
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.3079G	50.51	54.00	-3.49	8.84	3	Vertical	344	2.73					
PK	7.308G	63.90	74.00	-10.10	8.84	3	Vertical	344	2.73					

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

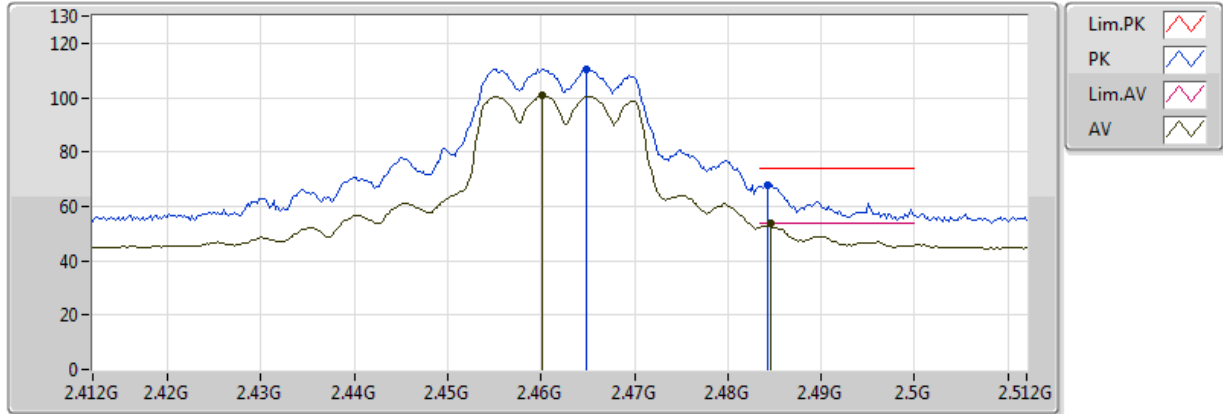


20170928
EUT_Z_2TX
Setting 23
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.3081G	45.72	54.00	-8.28	8.84	3	Horizontal	62	2.65					
PK	7.3129G	58.86	74.00	-15.14	8.85	3	Horizontal	62	2.65					

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

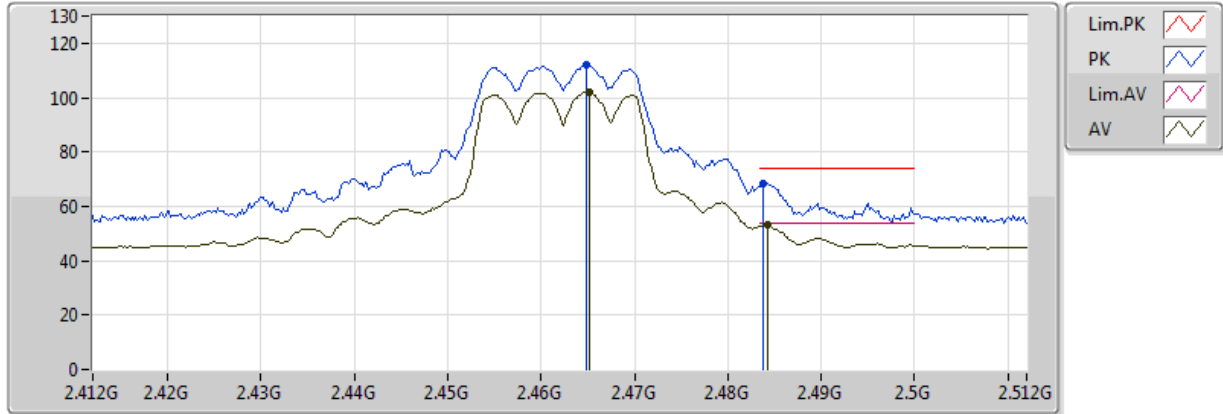


20170928
EUT_Z_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4602G	100.63	Inf	-Inf	30.89	3	Vertical	0	2.41					
AV	2.4846G	53.58	54.00	-0.42	30.86	3	Vertical	0	2.41					
PK	2.4648G	110.48	Inf	-Inf	30.88	3	Vertical	0	2.41					
PK	2.4842G	67.84	74.00	-6.16	30.86	3	Vertical	0	2.41					

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

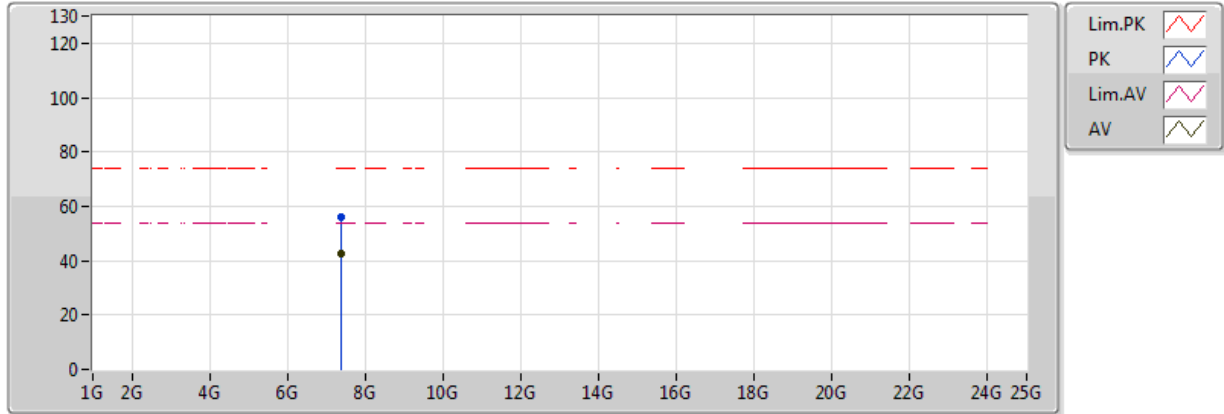


20170928
EUT_Z_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4652G	101.99	Inf	-Inf	30.88	3	Horizontal	29	1.40					
AV	2.4842G	53.09	54.00	-0.91	30.86	3	Horizontal	29	1.40					
PK	2.4648G	112.26	Inf	-Inf	30.88	3	Horizontal	29	1.40					
PK	2.4838G	68.52	74.00	-5.48	30.86	3	Horizontal	29	1.40					

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

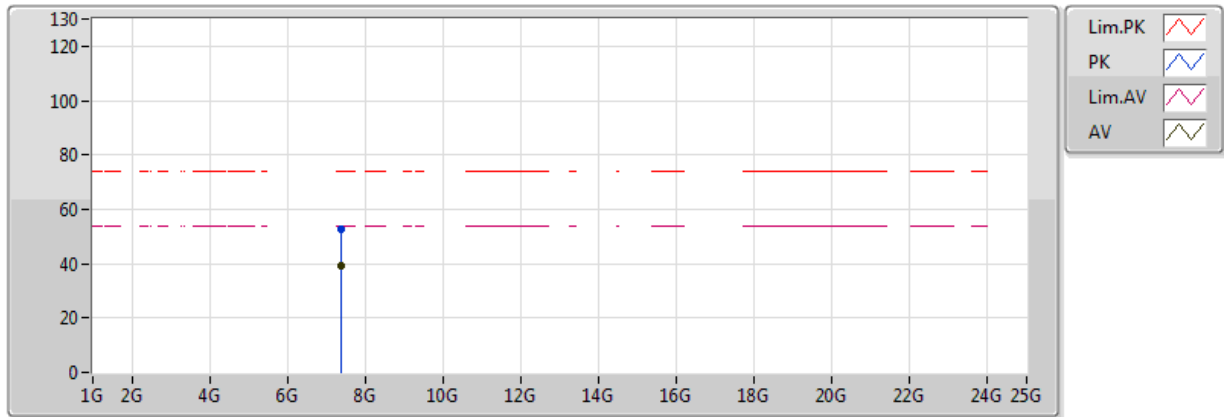


20170928
EUT_Z_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.38168G	42.75	54.00	-11.25	8.94	3	Vertical	350	2.75					
PK	7.38248G	55.87	74.00	-18.13	8.95	3	Vertical	350	2.75					

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

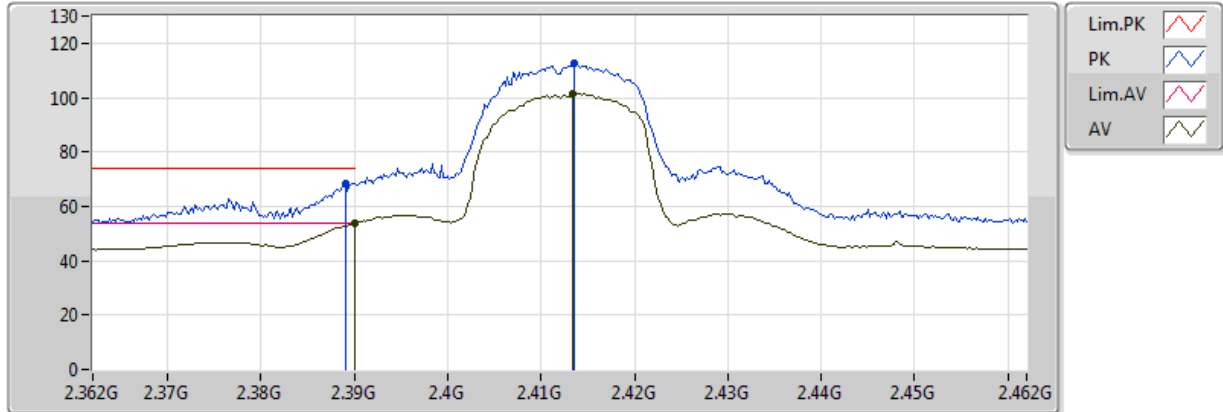


20170928
EUT_Z_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.38636G	39.43	54.00	-14.57	8.95	3	Horizontal	228	2.96					
PK	7.38252G	52.59	74.00	-21.41	8.95	3	Horizontal	228	2.96					

802.11ac VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

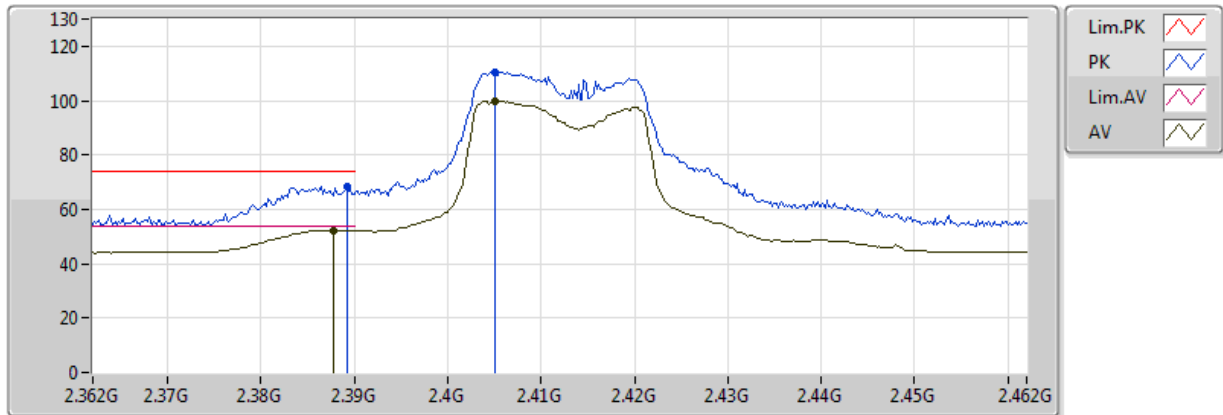


20170928
EUT_Z_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	53.67	54.00	-0.33	30.95	3	Vertical	136	1.38					
AV	2.4134G	101.39	Inf	-Inf	30.93	3	Vertical	136	1.38					
PK	2.389G	68.43	74.00	-5.57	30.95	3	Vertical	136	1.38					
PK	2.4136G	112.61	Inf	-Inf	30.93	3	Vertical	136	1.38					

802.11ac VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

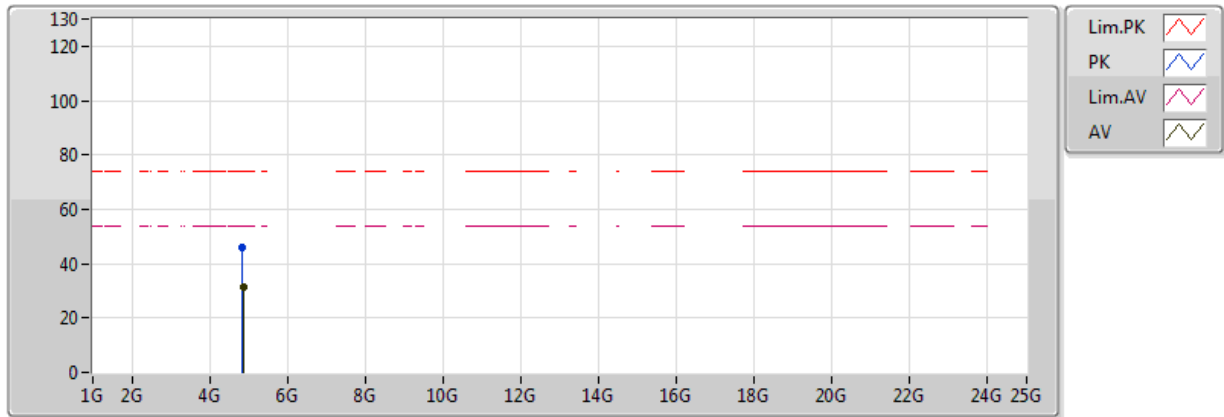


20170928
EUT_Z_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3878G	52.37	54.00	-1.63	30.96	3	Horizontal	27	1.45					
AV	2.405G	99.90	Inf	-Inf	30.94	3	Horizontal	27	1.45					
PK	2.3892G	68.46	74.00	-5.54	30.95	3	Horizontal	27	1.45					
PK	2.405G	110.43	Inf	-Inf	30.94	3	Horizontal	27	1.45					

802.11ac VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

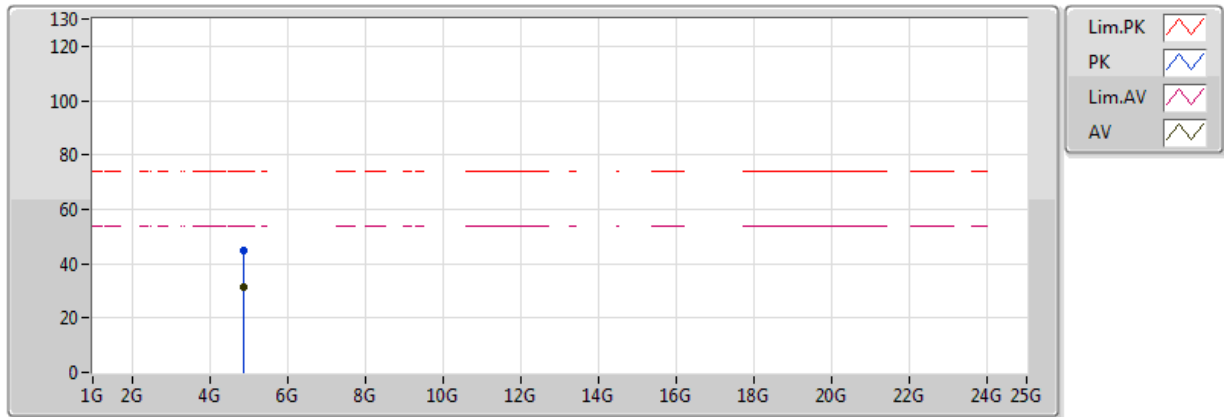


20170928
EUT_Z_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.8738G	31.56	54.00	-22.44	3.39	3	Vertical	75	1.94					
PK	4.843G	45.67	74.00	-28.33	3.29	3	Vertical	75	1.94					

802.11ac VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

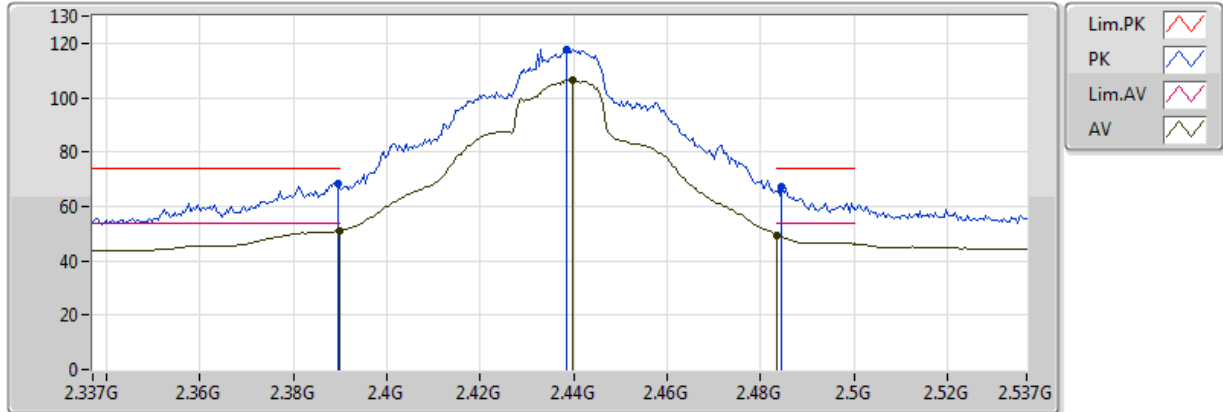


20170928
EUT_Z_2TX
Setting 16
01-C-5
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.8674G	31.49	54.00	-22.51	3.37	3	Horizontal	76	2.02					
PK	4.8716G	44.73	74.00	-29.27	3.38	3	Horizontal	76	2.02					

802.11ac VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

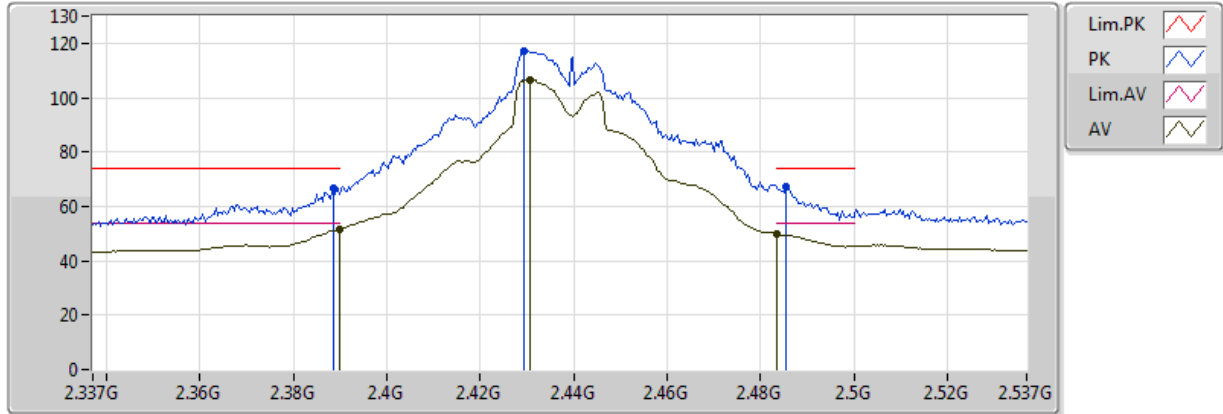


20170928
EUT_Z_2TX
Setting 22.5(23 over 0.5)
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3898G	51.03	54.00	-2.97	30.95	3	Vertical	288	2.25					
AV	2.4398G	106.69	Inf	-Inf	30.90	3	Vertical	288	2.25					
AV	2.483502G	49.44	54.00	-4.56	30.86	3	Vertical	288	2.25					
PK	2.3894G	68.63	74.00	-5.37	30.95	3	Vertical	288	2.25					
PK	2.4386G	117.93	Inf	-Inf	30.91	3	Vertical	288	2.25					
PK	2.4846G	67.07	74.00	-6.93	30.86	3	Vertical	288	2.25					

802.11ac VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

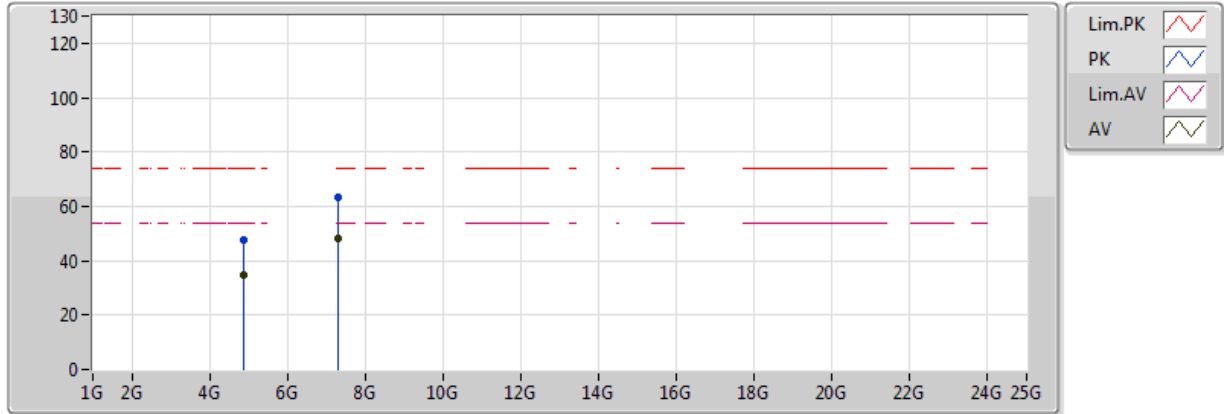


20170928
EUT_Z_2TX
Setting 22.5(23 over 0.5)
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3898G	51.55	54.00	-2.45	30.95	3	Horizontal	29	1.23					
AV	2.4306G	106.26	Inf	-Inf	30.91	3	Horizontal	29	1.23					
AV	2.483502G	49.89	54.00	-4.11	30.86	3	Horizontal	29	1.23					
PK	2.3886G	66.89	74.00	-7.11	30.95	3	Horizontal	29	1.23					
PK	2.4294G	117.09	Inf	-Inf	30.91	3	Horizontal	29	1.23					
PK	2.4854G	67.49	74.00	-6.51	30.86	3	Horizontal	29	1.23					

802.11ac VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

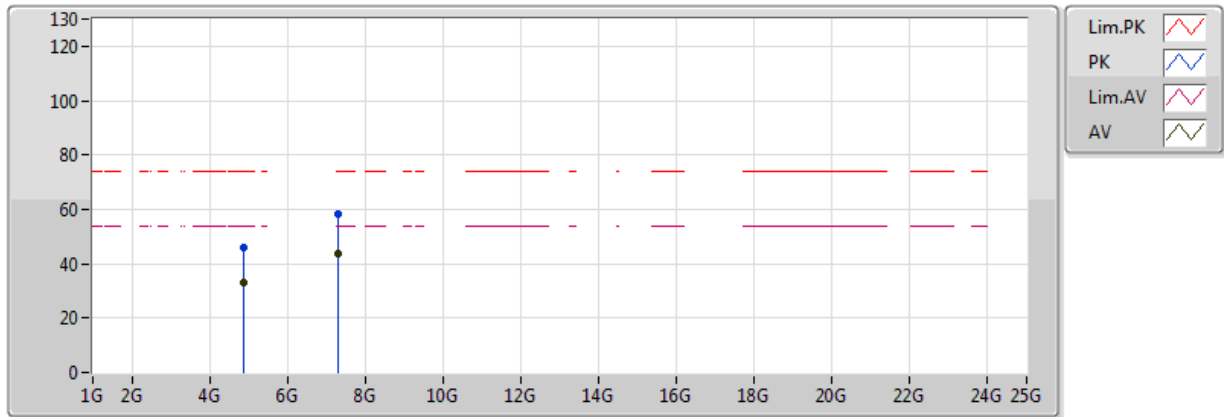


20170928
EUT_Z_2TX
Setting 22.5(23 over 0.5)
01-W-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.874028G	34.89	54.00	-19.11	3.39	3	Vertical	314	2.57					
AV	7.3156G	48.18	54.00	-5.82	8.85	3	Vertical	351	2.63					
PK	4.874056G	47.73	74.00	-26.27	3.39	3	Vertical	314	2.57					
PK	7.31772G	63.23	74.00	-10.77	8.85	3	Vertical	351	2.63					

802.11ac VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

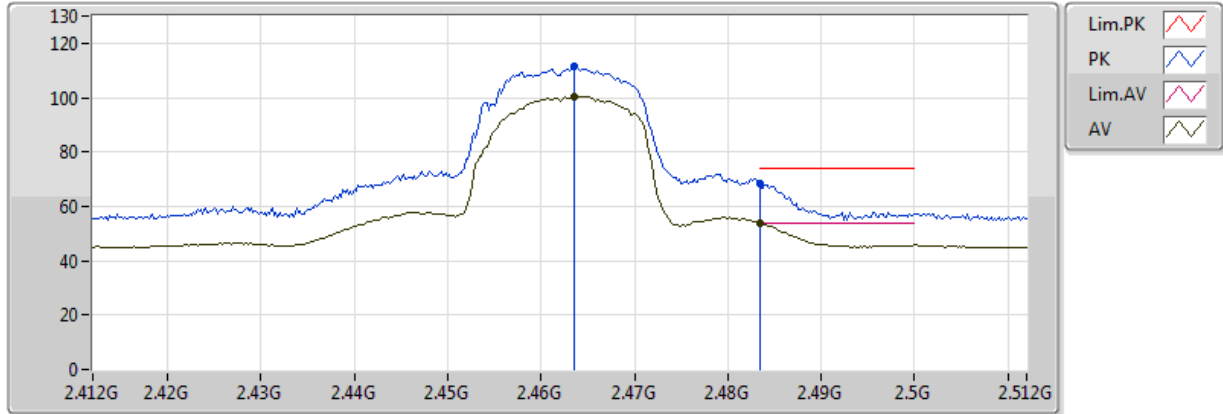


20170928
EUT_Z_2TX
Setting 22.5(23 over 0.5)
01-W-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.874052G	32.94	54.00	-21.06	3.39	3	Horizontal	241	2.44					
AV	7.3156G	43.97	54.00	-10.03	8.85	3	Horizontal	61	2.28					
PK	4.873972G	46.00	74.00	-28.00	3.39	3	Horizontal	241	2.44					
PK	7.3176G	58.37	74.00	-15.63	8.85	3	Horizontal	61	2.28					

802.11ac VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

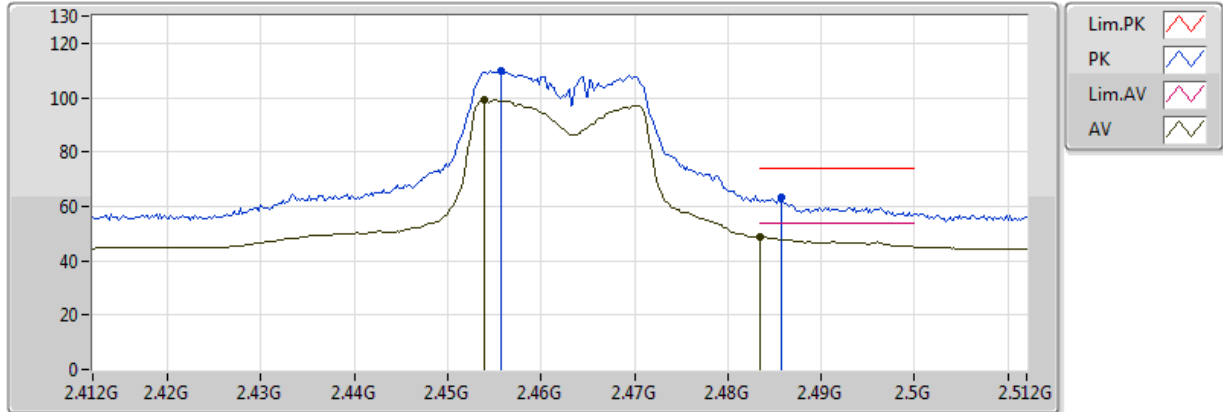


20170928
EUT_Z_2TX
Setting 15
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4636G	100.48	Inf	-Inf	30.88	3	Vertical	120	1.57					
AV	2.483502G	53.97	54.00	-0.03	30.86	3	Vertical	120	1.57					
PK	2.4636G	111.57	Inf	-Inf	30.88	3	Vertical	120	1.57					
PK	2.483502G	68.33	74.00	-5.67	30.86	3	Vertical	120	1.57					

802.11ac VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

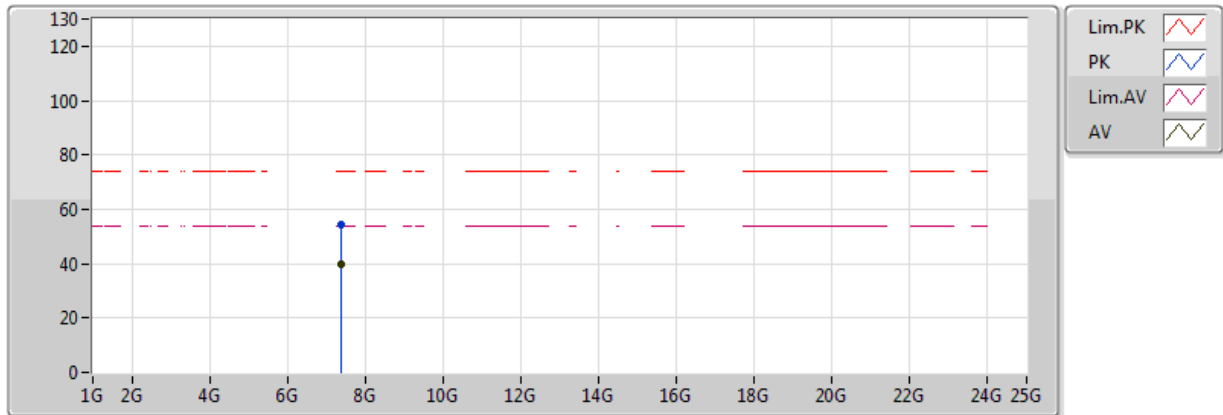


20170928
EUT_Z_2TX
Setting 15
01-W-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height						
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)						
AV	2.454G	99.03	Inf	-Inf	30.89	3	Horizontal	30	1.15						
AV	2.483502G	48.54	54.00	-5.46	30.86	3	Horizontal	30	1.15						
PK	2.4558G	109.77	Inf	-Inf	30.89	3	Horizontal	30	1.15						
PK	2.4858G	63.23	74.00	-10.77	30.86	3	Horizontal	30	1.15						

802.11ac VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

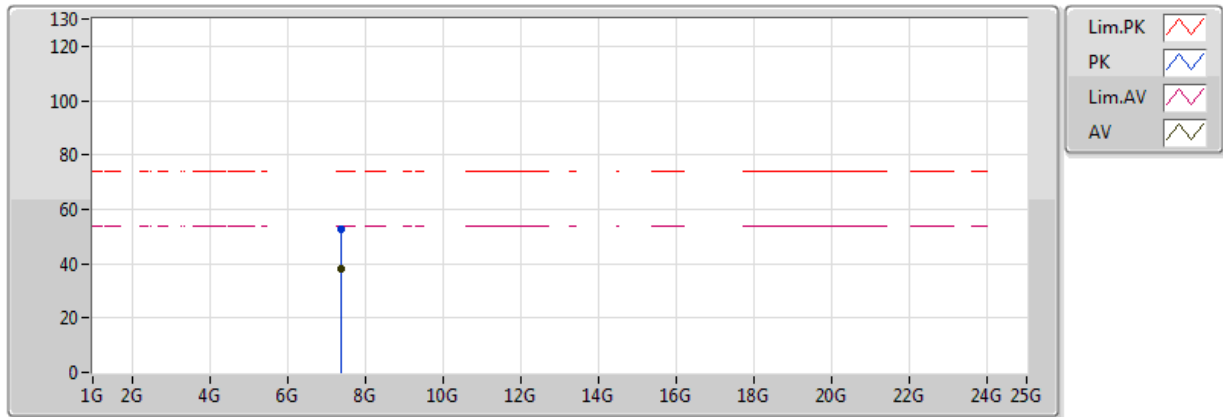


20170928
EUT_Z_2TX
Setting 15
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.38764G	39.74	54.00	-14.26	8.95	3	Vertical	0	2.58					
PK	7.38908G	54.35	74.00	-19.65	8.95	3	Vertical	0	2.58					

802.11ac VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

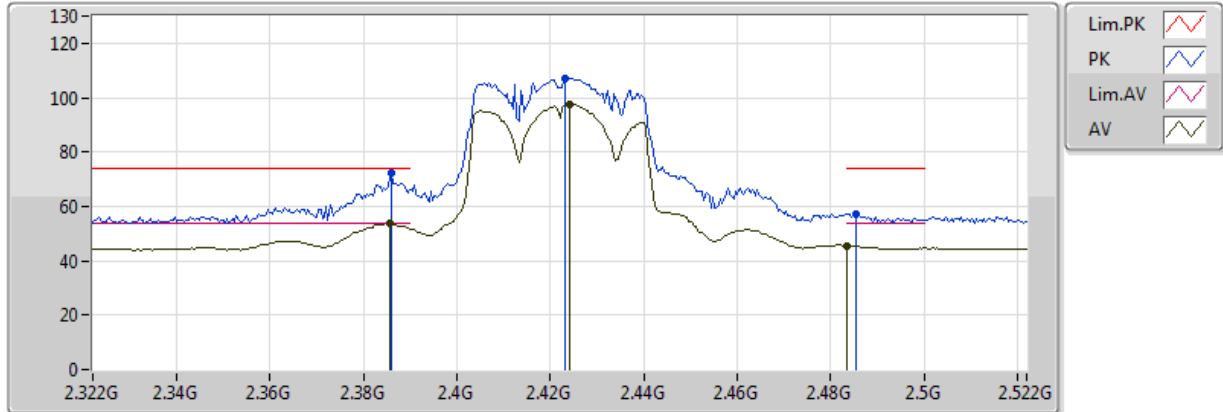


20170928
EUT_Z_2TX
Setting 15
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.3904G	38.30	54.00	-15.70	8.96	3	Horizontal	65	2.99					
PK	7.38672G	52.69	74.00	-21.31	8.95	3	Horizontal	65	2.99					

802.11ac VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

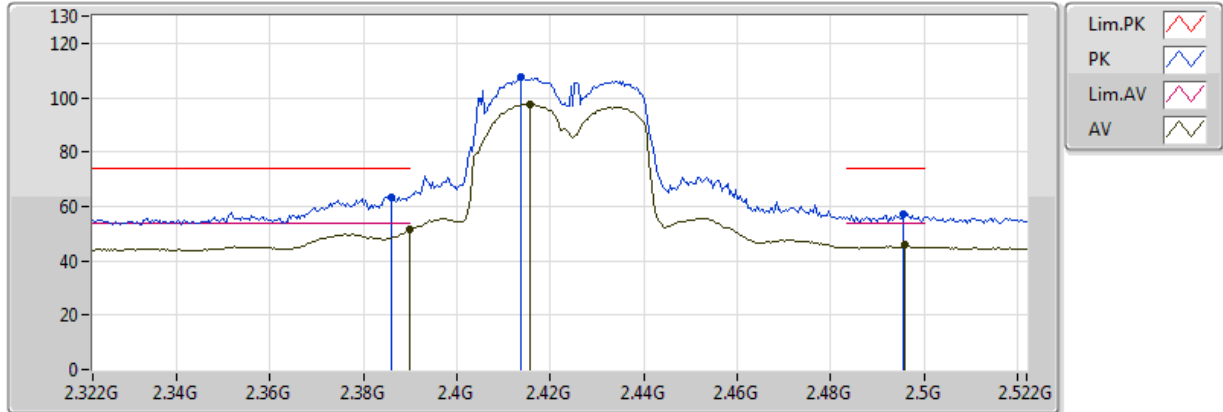


20170928
EUT_Z_2TX
Setting 15
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3856G	53.85	54.00	-0.15	30.96	3	Vertical	115	1.48					
AV	2.424G	97.78	Inf	-Inf	30.92	3	Vertical	115	1.48					
AV	2.483502G	45.51	54.00	-8.49	30.86	3	Vertical	115	1.48					
PK	2.386G	72.28	74.00	-1.72	30.96	3	Vertical	115	1.48					
PK	2.4232G	107.29	Inf	-Inf	30.92	3	Vertical	115	1.48					
PK	2.4856G	57.33	74.00	-16.67	30.86	3	Vertical	115	1.48					

802.11ac VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

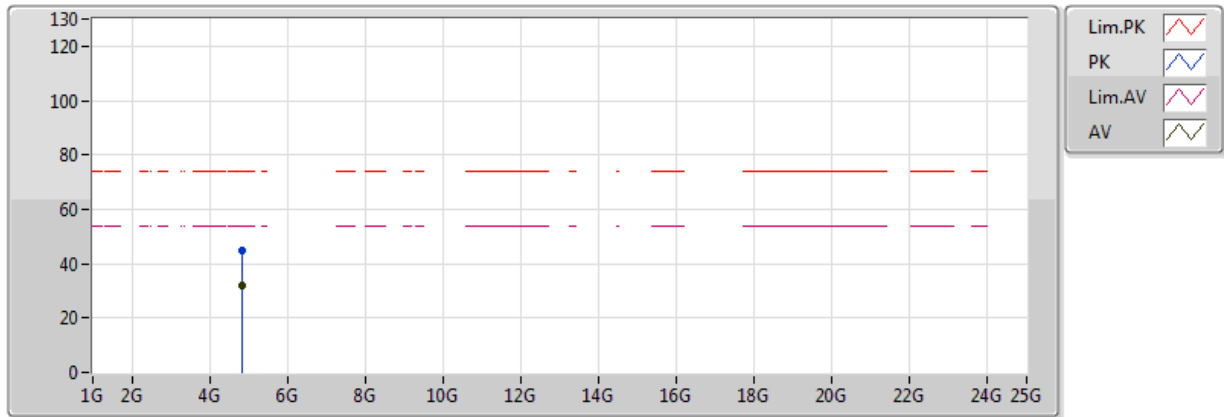


20170928
EUT_Z_2TX
Setting 15
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	51.57	54.00	-2.43	30.95	3	Horizontal	28	1.19					
AV	2.4156G	97.70	Inf	-Inf	30.93	3	Horizontal	28	1.19					
AV	2.496G	45.89	54.00	-8.11	30.85	3	Horizontal	28	1.19					
PK	2.386G	63.59	74.00	-10.41	30.96	3	Horizontal	28	1.19					
PK	2.4136G	107.33	Inf	-Inf	30.93	3	Horizontal	28	1.19					
PK	2.4956G	57.09	74.00	-16.91	30.85	3	Horizontal	28	1.19					

802.11ac VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

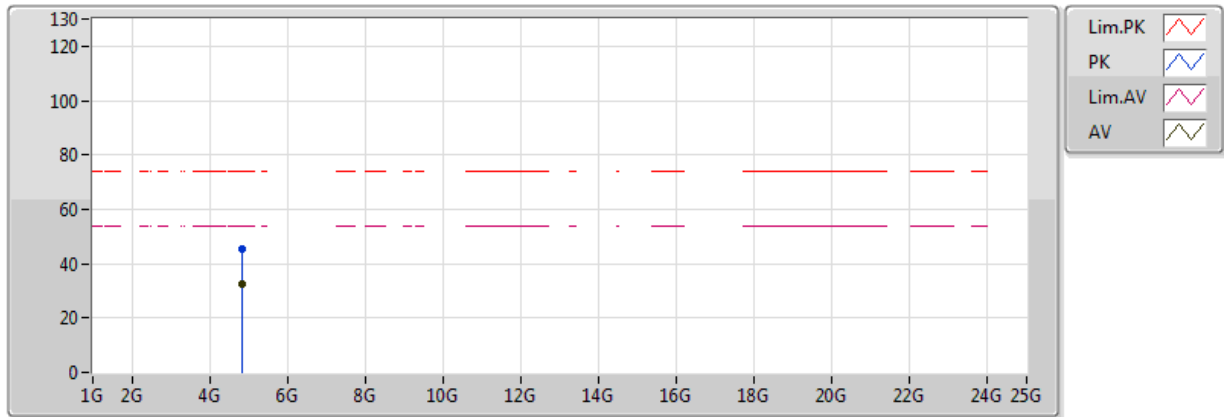


20170928
EUT_Z_2TX
Setting 15
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.843916G	32.06	54.00	-21.94	3.29	3	Vertical	284	1.73					
PK	4.84414G	44.99	74.00	-29.01	3.29	3	Vertical	284	1.73					

802.11ac VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

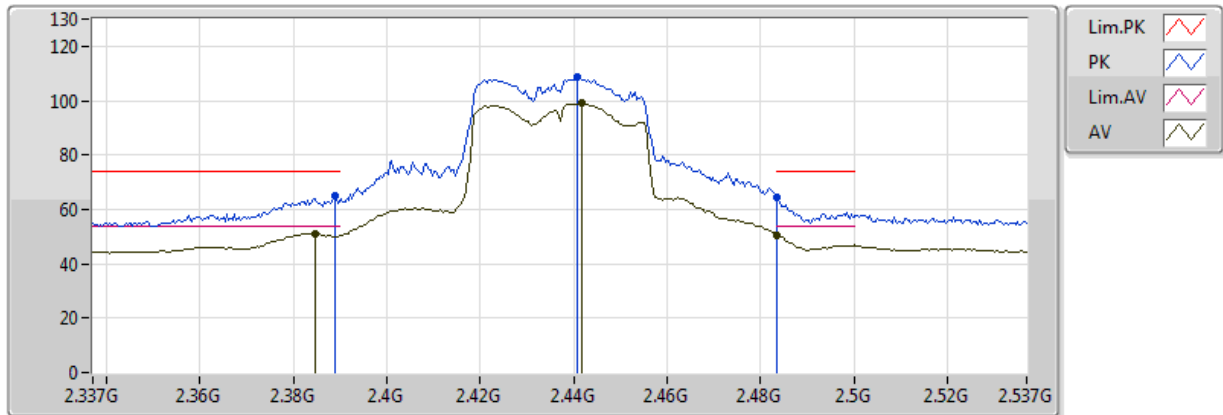


20170928
EUT_Z_2TX
Setting 15
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.844072G	32.49	54.00	-21.51	3.29	3	Horizontal	288	2.43					
PK	4.84392G	45.22	74.00	-28.78	3.29	3	Horizontal	288	2.43					

802.11ac VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

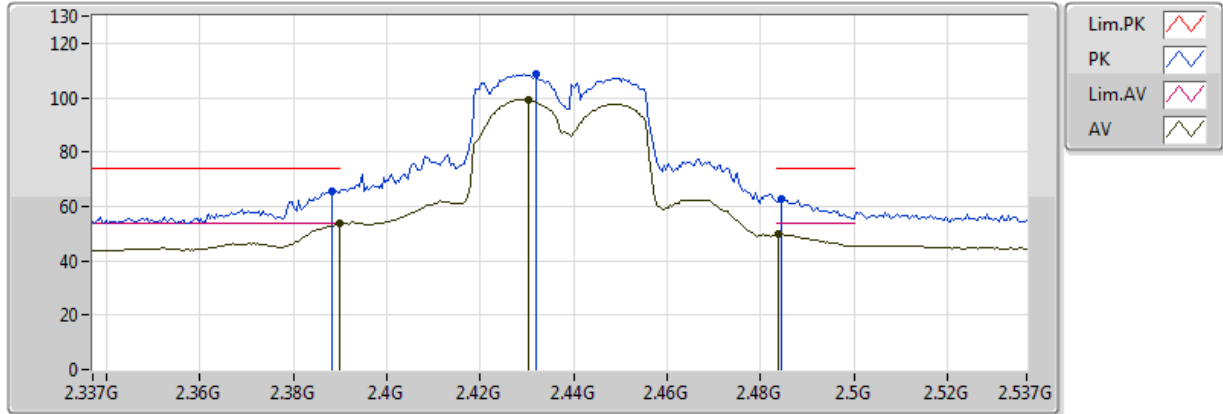


20170928
EUT_Z_2TX
Setting 16.5
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3846G	51.10	54.00	-2.90	30.96	3	Vertical	281	2.26					
AV	2.4418G	99.04	Inf	-Inf	30.90	3	Vertical	281	2.26					
AV	2.483502G	50.59	54.00	-3.41	30.86	3	Vertical	281	2.26					
PK	2.389G	65.27	74.00	-8.73	30.95	3	Vertical	281	2.26					
PK	2.4406G	108.46	Inf	-Inf	30.90	3	Vertical	281	2.26					
PK	2.483502G	64.16	74.00	-9.84	30.86	3	Vertical	281	2.26					

802.11ac VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

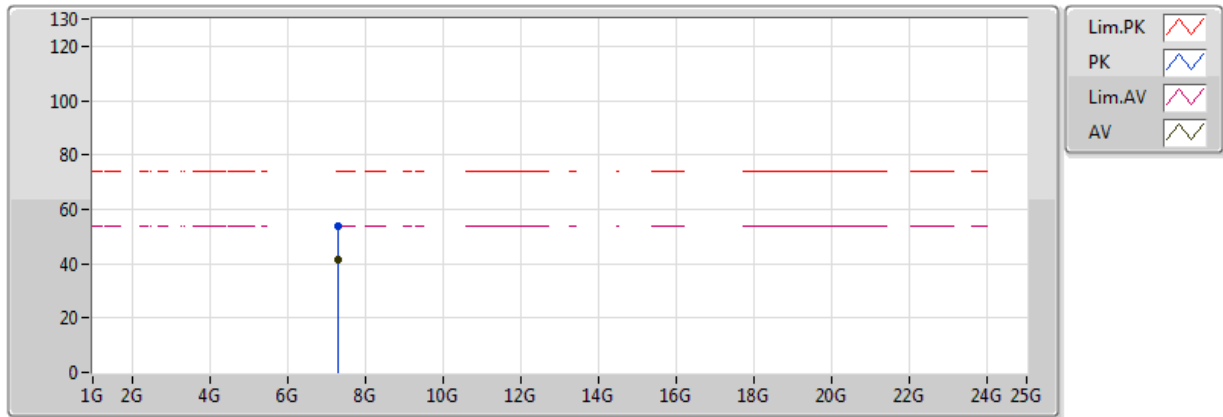


20170928
EUT_Z_2TX
Setting 16.5
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3898G	53.78	54.00	-0.22	30.95	3	Horizontal	26	1.20					
AV	2.4302G	99.22	Inf	-Inf	30.91	3	Horizontal	26	1.20					
AV	2.4838G	50.06	54.00	-3.94	30.86	3	Horizontal	26	1.20					
PK	2.3882G	65.65	74.00	-8.35	30.96	3	Horizontal	26	1.20					
PK	2.4318G	108.54	Inf	-Inf	30.91	3	Horizontal	26	1.20					
PK	2.4846G	62.60	74.00	-11.40	30.86	3	Horizontal	26	1.20					

802.11ac VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

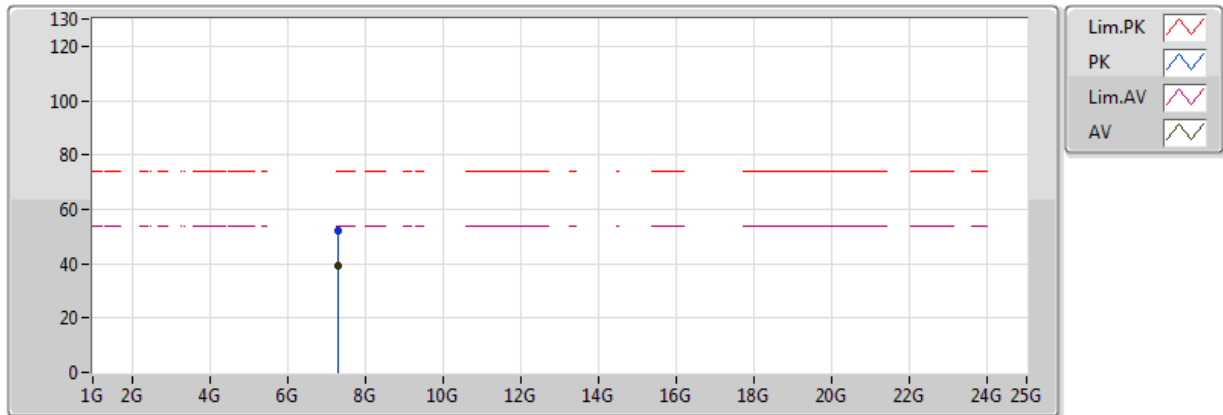


20170928
EUT_Z_2TX
Setting 16.5
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.30104G	41.24	54.00	-12.76	8.83	3	Vertical	353	2.68					
PK	7.30026G	53.88	74.00	-20.12	8.83	3	Vertical	353	2.68					

802.11ac VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

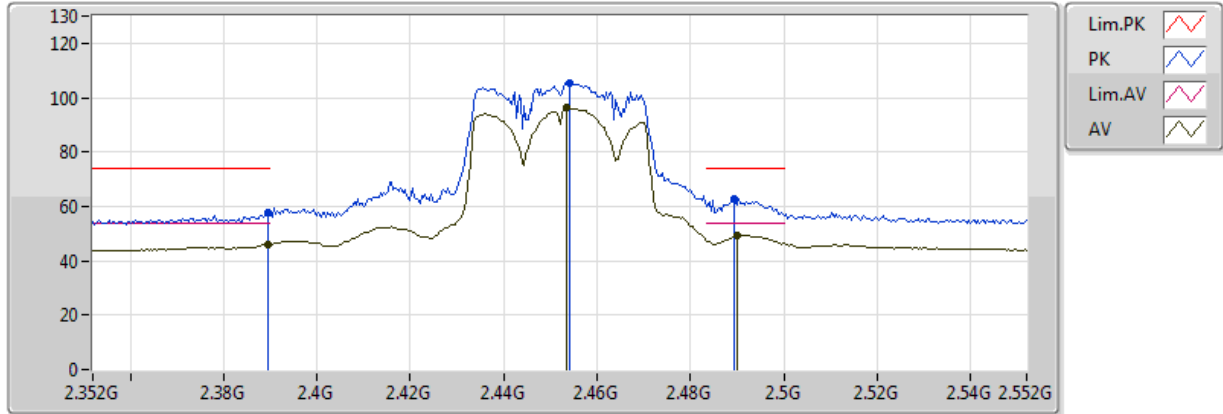


20170928
EUT_Z_2TX
Setting 16.5
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	7.30008G	38.98	54.00	-15.02	8.83	3	Horizontal	96	2.98					
PK	7.30494G	51.87	74.00	-22.13	8.84	3	Horizontal	96	2.98					

802.11ac VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

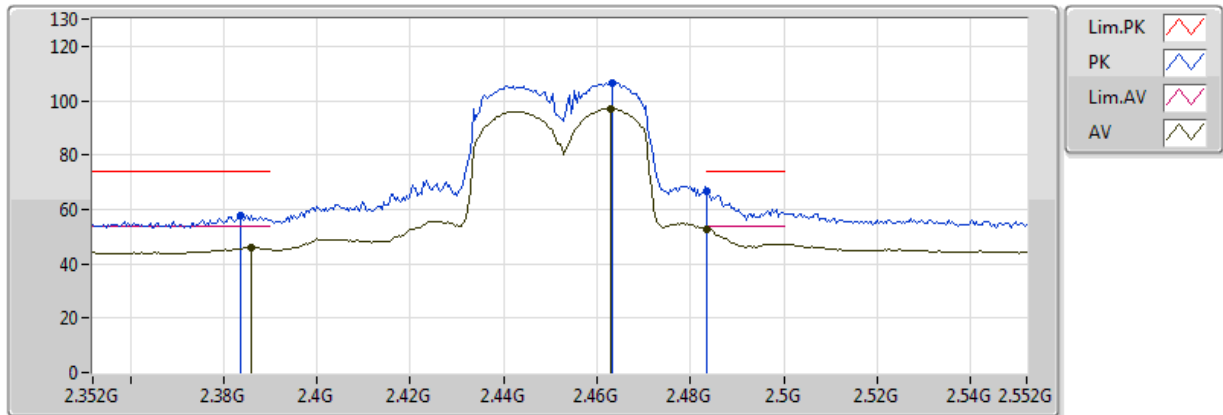


20170928
EUT_Z_2TX
Setting 14.5(15 over 0.48)
01-W-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3896G	46.14	54.00	-7.86	30.95	3	Vertical	209	1.55					
AV	2.4536G	96.28	Inf	-Inf	30.89	3	Vertical	209	1.55					
AV	2.49G	49.40	54.00	-4.60	30.86	3	Vertical	209	1.55					
PK	2.3896G	57.72	74.00	-16.28	30.95	3	Vertical	209	1.55					
PK	2.454G	105.50	Inf	-Inf	30.89	3	Vertical	209	1.55					
PK	2.4892G	62.93	74.00	-11.07	30.86	3	Vertical	209	1.55					

802.11ac VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

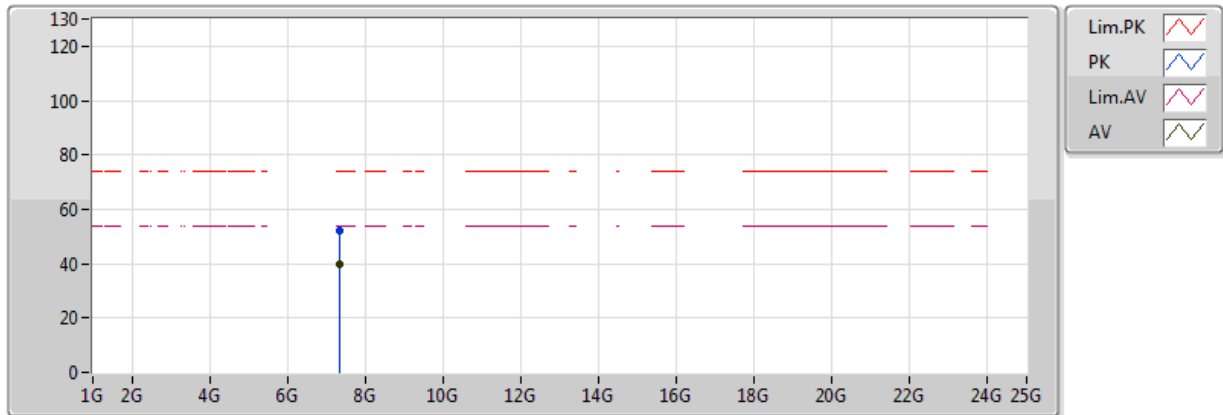


20170928
EUT_Z_2TX
Setting 14.5(15 over 0.48)
01-W-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.386G	45.98	54.00	-8.02	30.96	3	Horizontal	27	1.38					
AV	2.4628G	97.19	Inf	-Inf	30.88	3	Horizontal	27	1.38					
AV	2.483502G	52.84	54.00	-1.16	30.86	3	Horizontal	27	1.38					
PK	2.3836G	57.66	74.00	-16.34	30.96	3	Horizontal	27	1.38					
PK	2.4632G	106.72	Inf	-Inf	30.88	3	Horizontal	27	1.38					
PK	2.483502G	66.93	74.00	-7.07	30.86	3	Horizontal	27	1.38					

802.11ac VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

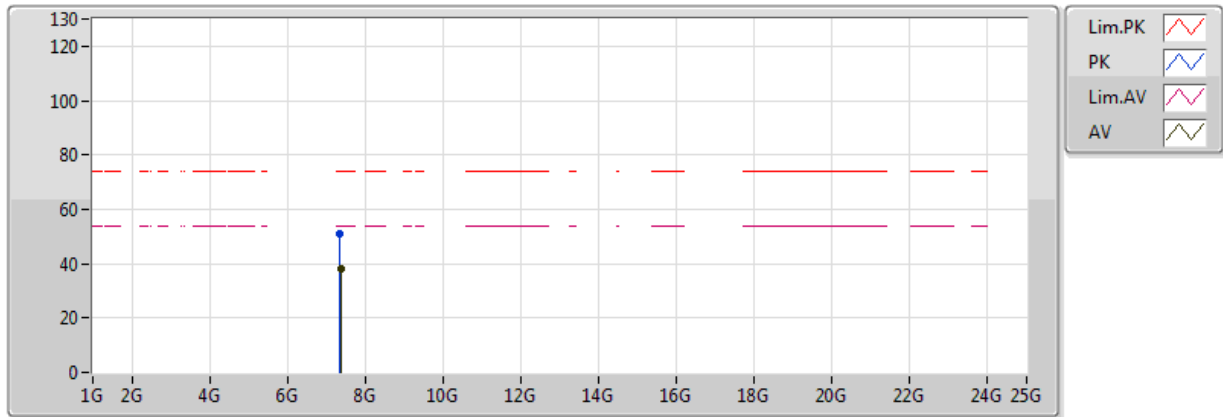


20170928
EUT_Z_2TX
Setting 14.5(15 over 0.48)
01-W-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.3582G	39.75	54.00	-14.25	8.91	3	Vertical	344	2.72					
PK	7.35668G	52.24	74.00	-21.76	8.91	3	Vertical	344	2.72					

802.11ac VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

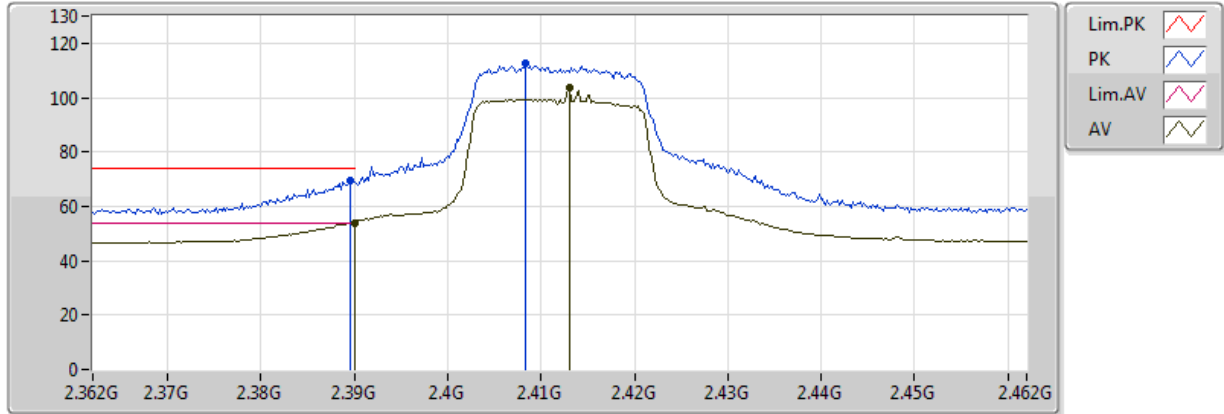


20170928
EUT_Z_2TX
Setting 14.5(15 over 0.48)
01-W-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	7.36324G	38.12	54.00	-15.88	8.92	3	Horizontal	162	1.50					
PK	7.35408G	51.25	74.00	-22.75	8.91	3	Horizontal	162	1.50					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

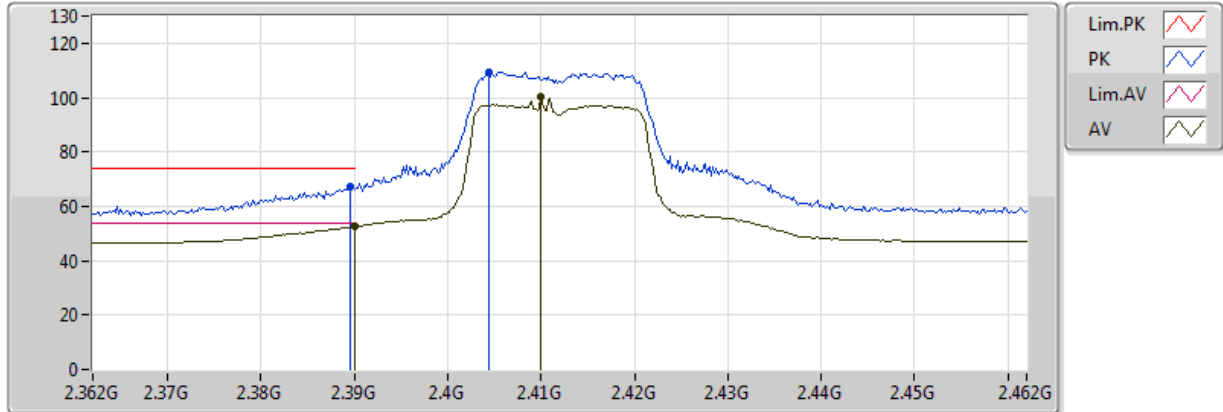


20171005
EUT_Z_2TX
Setting 19
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	53.99	54.00	-0.01	31.94	3	Vertical	297	2.80					
AV	2.413G	103.57	Inf	-Inf	32.01	3	Vertical	297	2.80					
PK	2.3896G	69.34	74.00	-4.66	31.94	3	Vertical	297	2.80					
PK	2.4084G	112.69	Inf	-Inf	32.00	3	Vertical	297	2.80					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

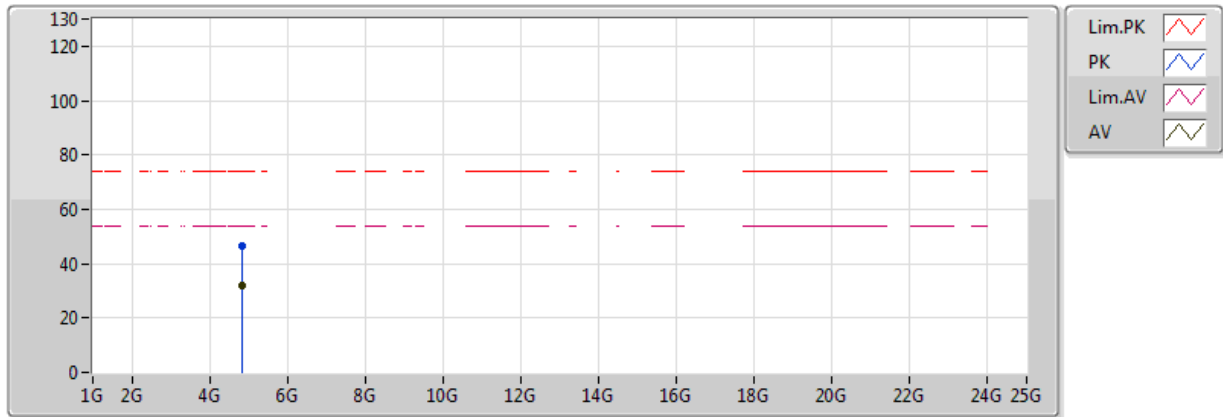


20171005
EUT_Z_2TX
Setting 19
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	52.66	54.00	-1.34	31.94	3	Horizontal	256	2.47					
AV	2.41G	100.15	Inf	-Inf	32.00	3	Horizontal	256	2.47					
PK	2.3896G	67.38	74.00	-6.62	31.94	3	Horizontal	256	2.47					
PK	2.4044G	109.20	Inf	-Inf	31.98	3	Horizontal	256	2.47					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

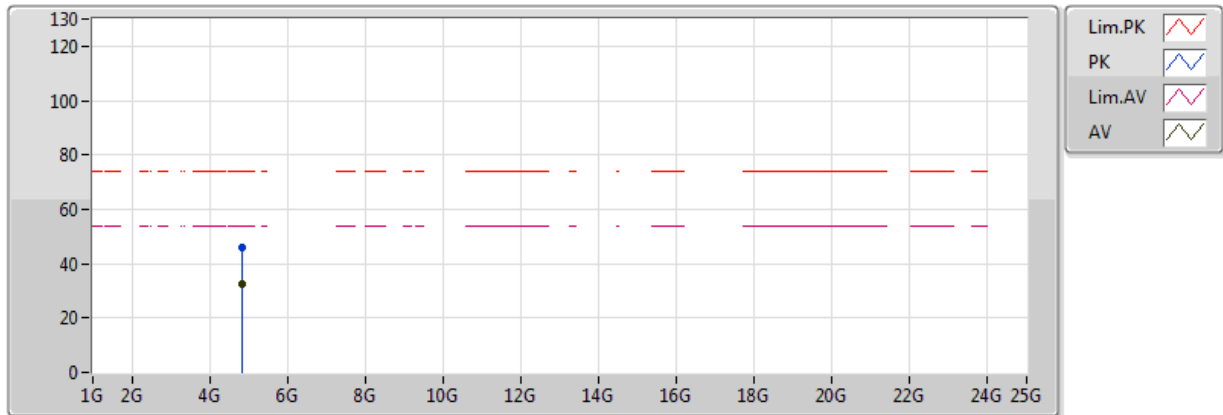


20171005
EUT_Z_2TX
Setting 19
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.82766G	32.18	54.00	-21.82	8.10	3	Vertical	349	2.49					
PK	4.82068G	46.67	74.00	-27.33	8.07	3	Vertical	349	2.49					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

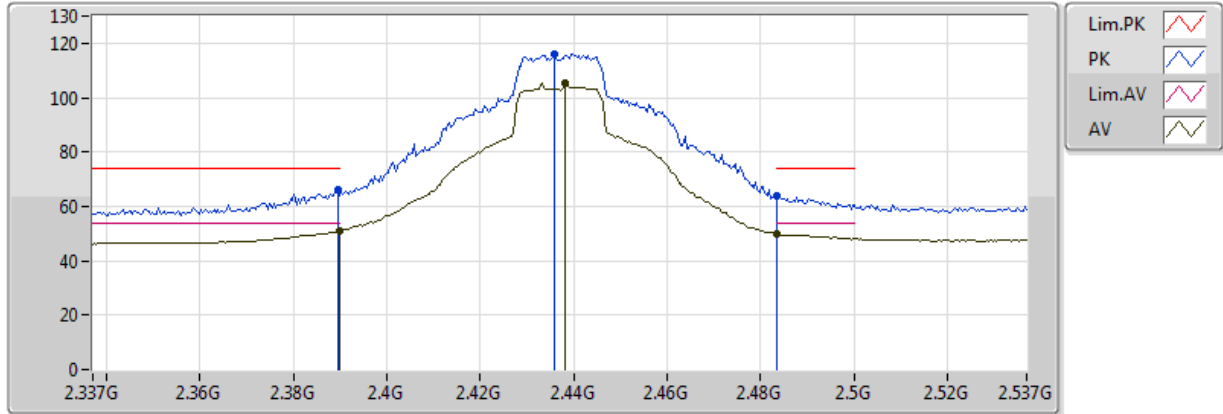


20171005
EUT_Z_2TX
Setting 19
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.82808G	32.22	54.00	-21.78	8.10	3	Horizontal	336	2.14					
PK	4.82576G	46.16	74.00	-27.84	8.09	3	Horizontal	336	2.14					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

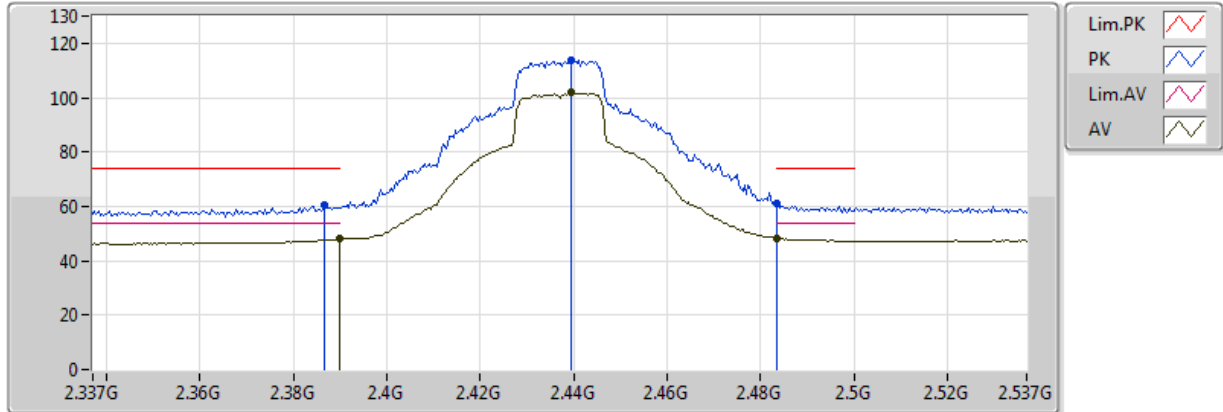


20171005
EUT_Z_2TX
Setting 25
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	51.05	54.00	-2.95	31.94	3	Vertical	255	2.11					
AV	2.4382G	105.16	Inf	-Inf	32.08	3	Vertical	255	2.11					
AV	2.483502G	49.78	54.00	-4.22	32.22	3	Vertical	255	2.11					
PK	2.3894G	65.99	74.00	-8.01	31.94	3	Vertical	255	2.11					
PK	2.4358G	116.14	Inf	-Inf	32.08	3	Vertical	255	2.11					
PK	2.483502G	64.13	74.00	-9.87	32.22	3	Vertical	255	2.11					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

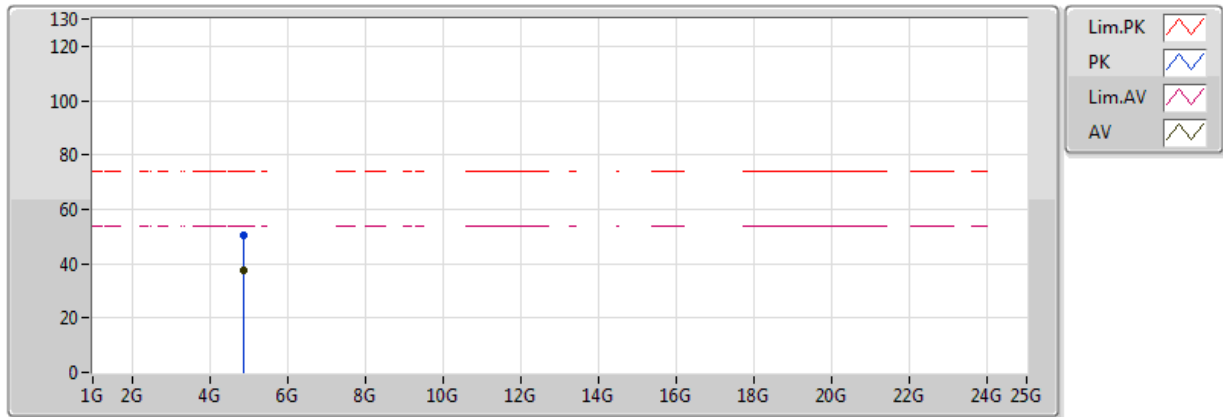


20171005
EUT_Z_2TX
Setting 25
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	47.95	54.00	-6.05	31.94	3	Horizontal	100	2.70					
AV	2.4394G	101.79	Inf	-Inf	32.09	3	Horizontal	100	2.70					
AV	2.483502G	48.38	54.00	-5.62	32.22	3	Horizontal	100	2.70					
PK	2.3866G	60.28	74.00	-13.72	31.93	3	Horizontal	100	2.70					
PK	2.4394G	113.54	Inf	-Inf	32.09	3	Horizontal	100	2.70					
PK	2.483502G	61.20	74.00	-12.80	32.22	3	Horizontal	100	2.70					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

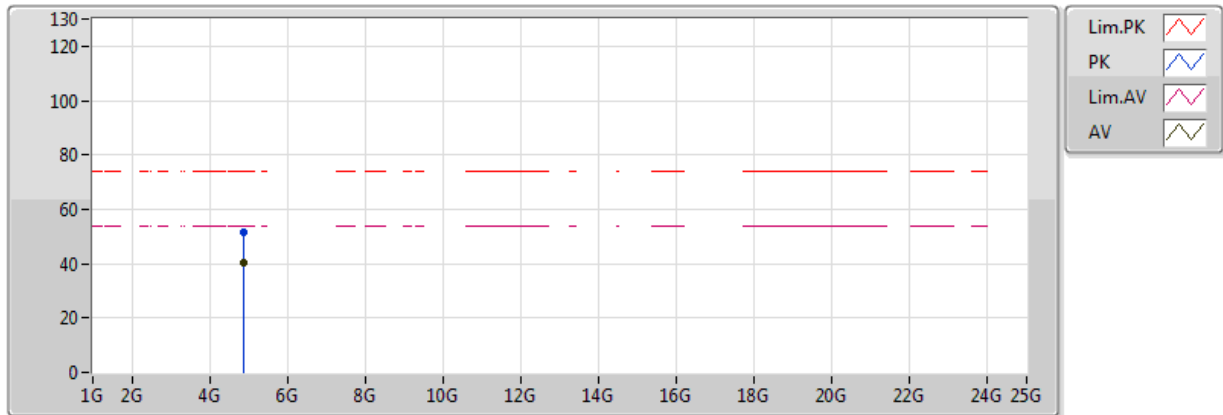


20171005
EUT_Z_2TX
Setting 25
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.8741G	37.43	54.00	-16.57	8.24	3	Vertical	176	1.61					
PK	4.87374G	50.24	74.00	-23.76	8.24	3	Vertical	176	1.61					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

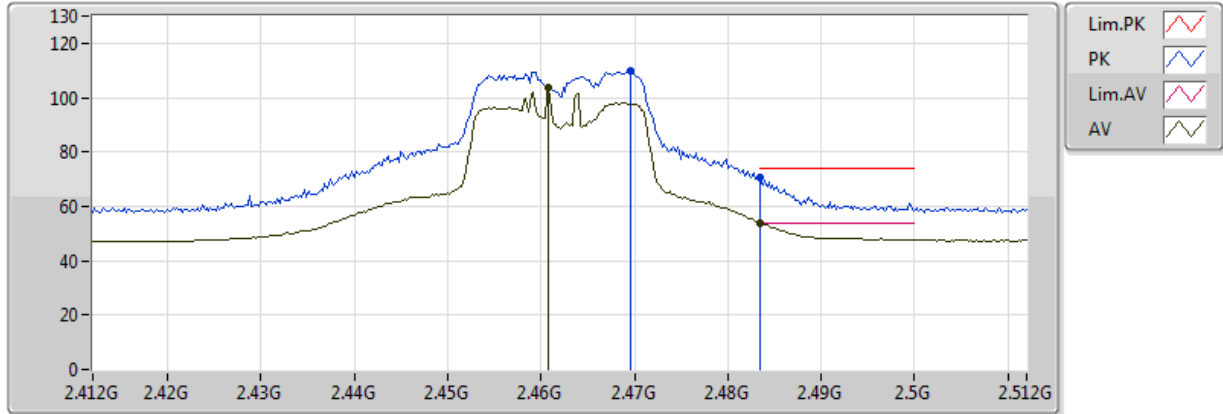


20171005
EUT_Z_2TX
Setting 25
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.87398G	40.40	54.00	-13.60	8.24	3	Horizontal	357	1.25					
PK	4.87388G	51.36	74.00	-22.64	8.24	3	Horizontal	357	1.25					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

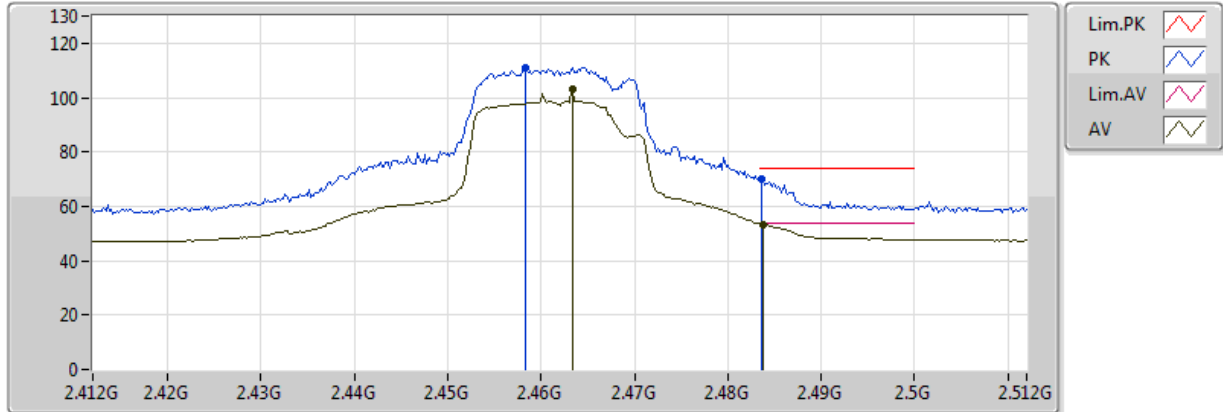


20171005
EUT_Z_2TX
Setting 20
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4608G	103.42	Inf	-Inf	32.15	3	Vertical	276	2.79					
AV	2.483502G	53.91	54.00	-0.09	32.22	3	Vertical	276	2.79					
PK	2.4696G	109.65	Inf	-Inf	32.18	3	Vertical	276	2.79					
PK	2.483502G	70.44	74.00	-3.56	32.22	3	Vertical	276	2.79					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

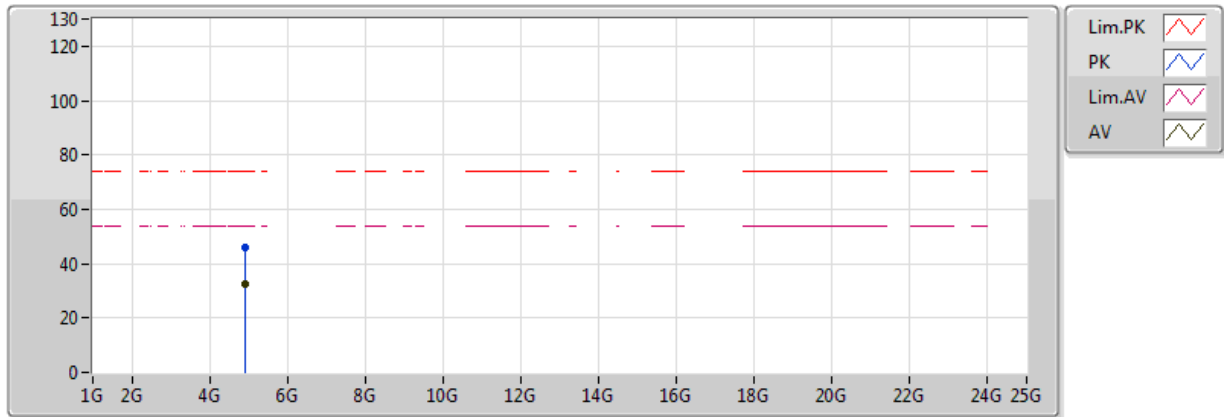


20171005
EUT_Z_2TX
Setting 20
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4634G	103.27	Inf	-Inf	32.16	3	Horizontal	296	1.57					
AV	2.4838G	53.35	54.00	-0.65	32.22	3	Horizontal	296	1.57					
PK	2.4584G	111.17	Inf	-Inf	32.15	3	Horizontal	296	1.57					
PK	2.4836G	70.29	74.00	-3.71	32.22	3	Horizontal	296	1.57					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

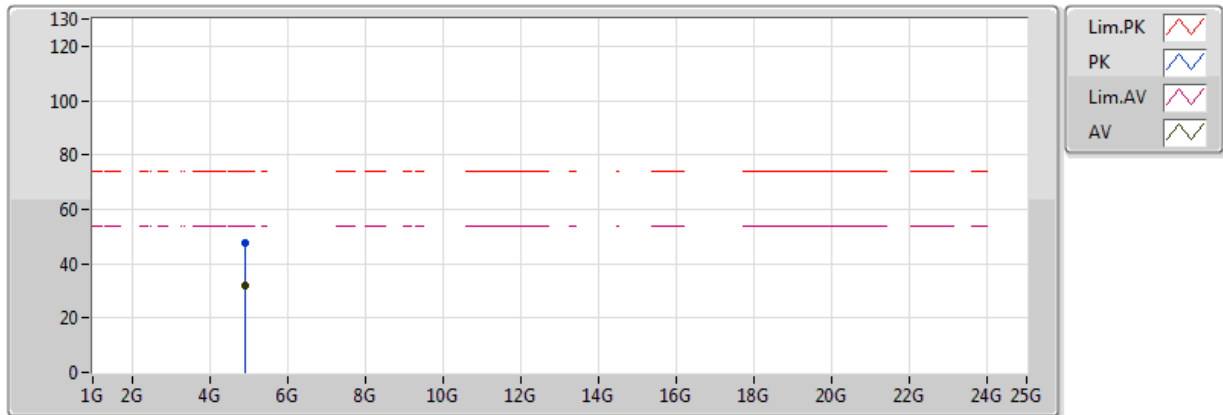


20171005
EUT_Z_2TX
Setting 20
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.92796G	32.34	54.00	-21.66	8.41	3	Vertical	88	1.23					
PK	4.92824G	46.04	74.00	-27.96	8.41	3	Vertical	88	1.23					

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

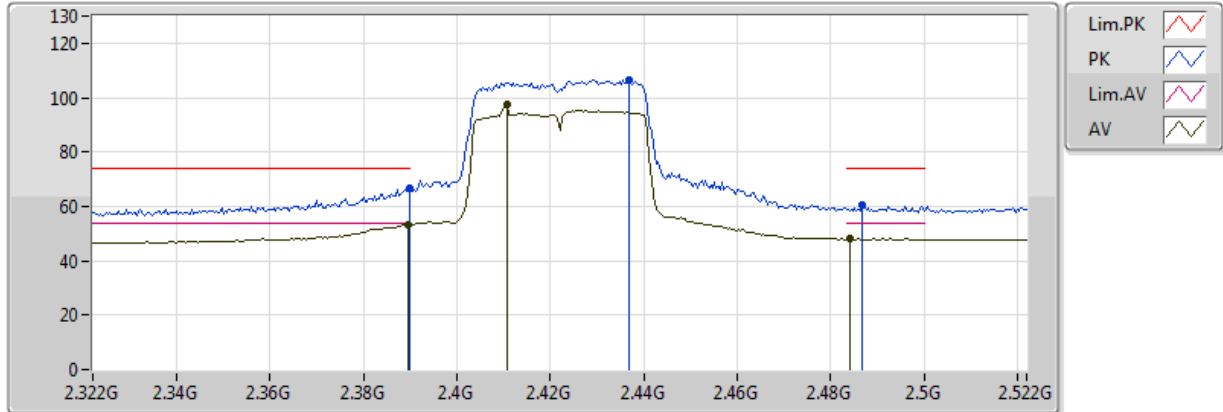


20171005
EUT_Z_2TX
Setting 20
02-G2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.92782G	32.13	54.00	-21.87	8.41	3	Horizontal	237	1.38					
PK	4.92782G	47.40	74.00	-26.60	8.39	3	Horizontal	237	1.38					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

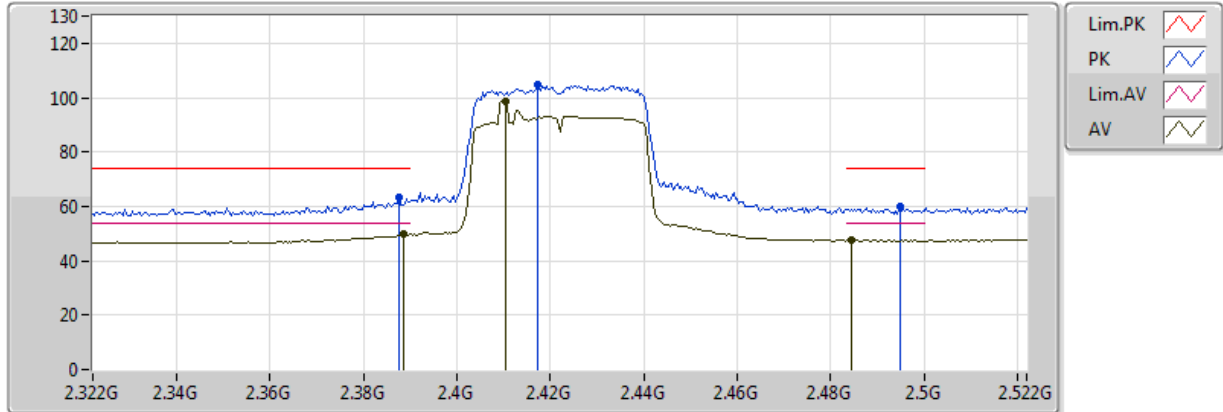


20171005
EUT_Z_2TX
Setting 18
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3896G	53.45	54.00	-0.55	31.94	3	Vertical	132	2.77					
AV	2.4108G	97.49	Inf	-Inf	32.00	3	Vertical	132	2.77					
AV	2.484G	47.98	54.00	-6.02	32.22	3	Vertical	132	2.77					
PK	2.39G	66.50	74.00	-7.50	31.94	3	Vertical	132	2.77					
PK	2.4368G	106.58	Inf	-Inf	32.08	3	Vertical	132	2.77					
PK	2.4868G	60.25	74.00	-13.75	32.23	3	Vertical	132	2.77					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

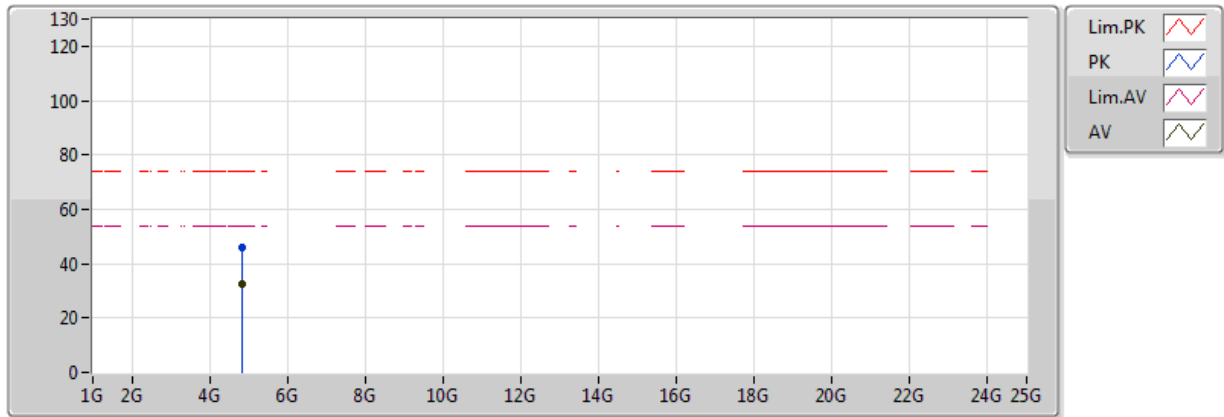


20171005
EUT_Z_2TX
Setting 18
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3884G	49.85	54.00	-4.15	31.93	3	Horizontal	238	2.70					
AV	2.4104G	98.86	Inf	-Inf	32.00	3	Horizontal	238	2.70					
AV	2.4844G	47.58	54.00	-6.42	32.22	3	Horizontal	238	2.70					
PK	2.3876G	63.05	74.00	-10.95	31.93	3	Horizontal	238	2.70					
PK	2.4172G	104.63	Inf	-Inf	32.02	3	Horizontal	238	2.70					
PK	2.4948G	59.74	74.00	-14.26	32.25	3	Horizontal	238	2.70					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

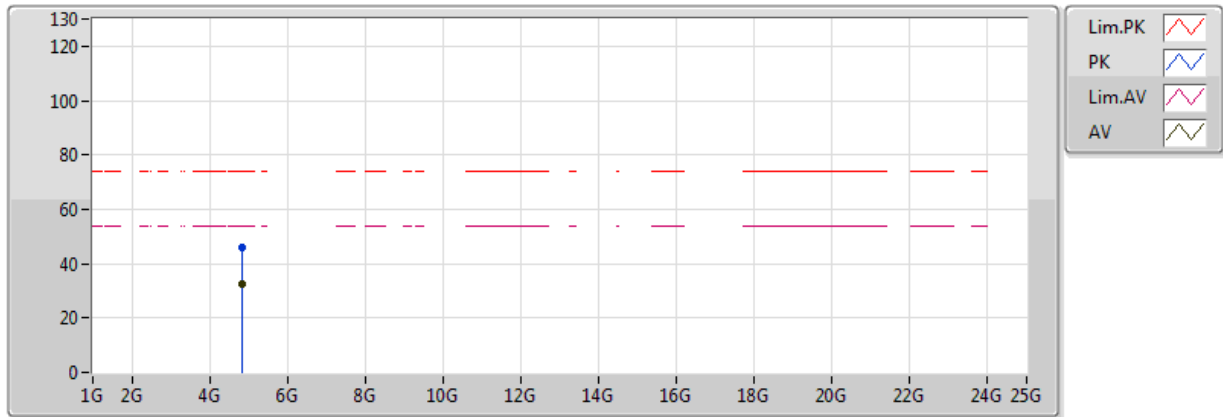


20171005
EUT_Z_2TX
Setting 18
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.8424G	32.35	54.00	-21.65	8.14	3	Vertical	314	1.13					
PK	4.84576G	45.89	74.00	-28.11	8.15	3	Vertical	314	1.13					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

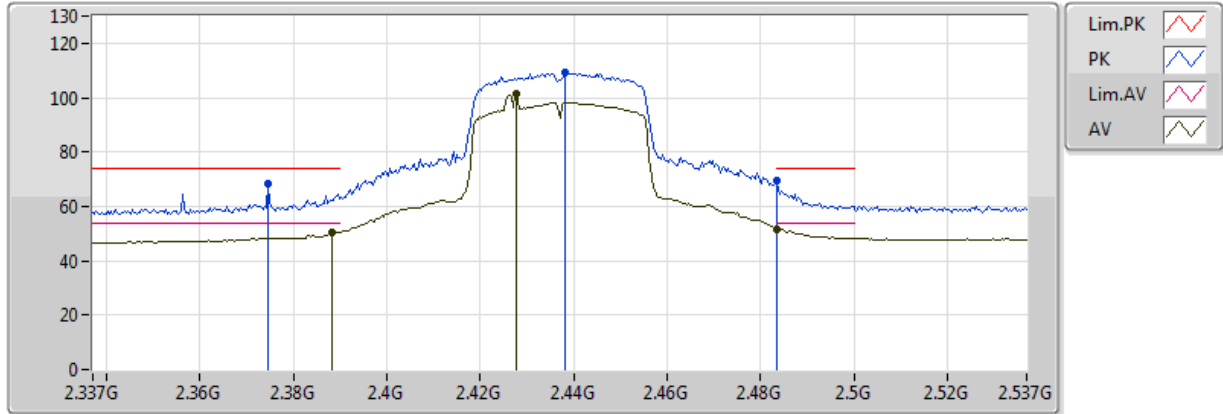


20171005
EUT_Z_2TX
Setting 18
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.83872G	32.40	54.00	-21.60	8.13	3	Horizontal	105	1.80					
PK	4.83824G	45.97	74.00	-28.03	8.13	3	Horizontal	105	1.80					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

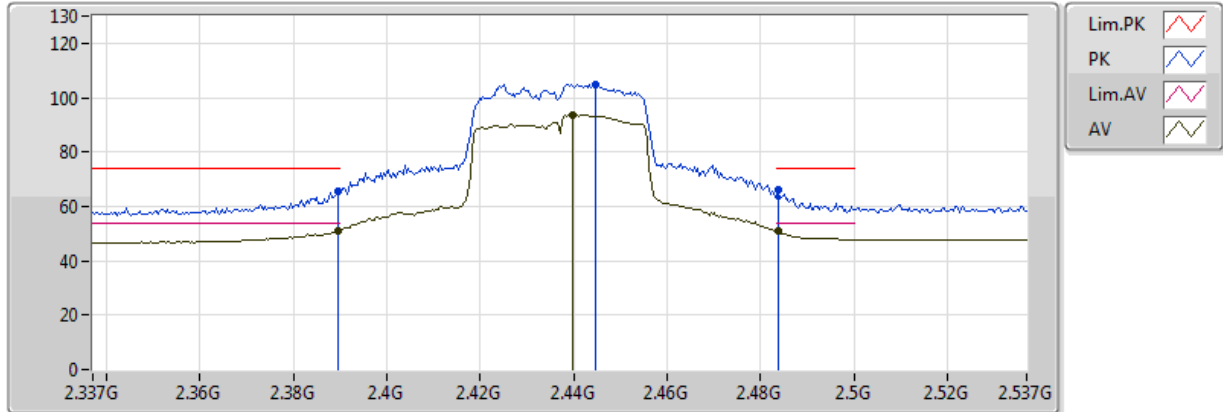


20171005
EUT_Z_2TX
Setting 20
02-G2
FSU
↑ 1 FAIL

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3882G	50.25	54.00	-3.75	31.93	3	Vertical	237	2.61					
AV	2.4278G	101.64	Inf	-Inf	32.05	3	Vertical	237	2.61					
AV	2.483502G	51.79	54.00	-2.21	32.22	3	Vertical	237	2.61					
PK	2.3746G	68.47	74.00	-5.53	31.89	3	Vertical	237	2.61					
PK	2.4382G	109.28	Inf	-Inf	32.08	3	Vertical	237	2.61					
PK	2.483502G	69.51	74.00	-4.49	32.22	3	Vertical	237	2.61					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

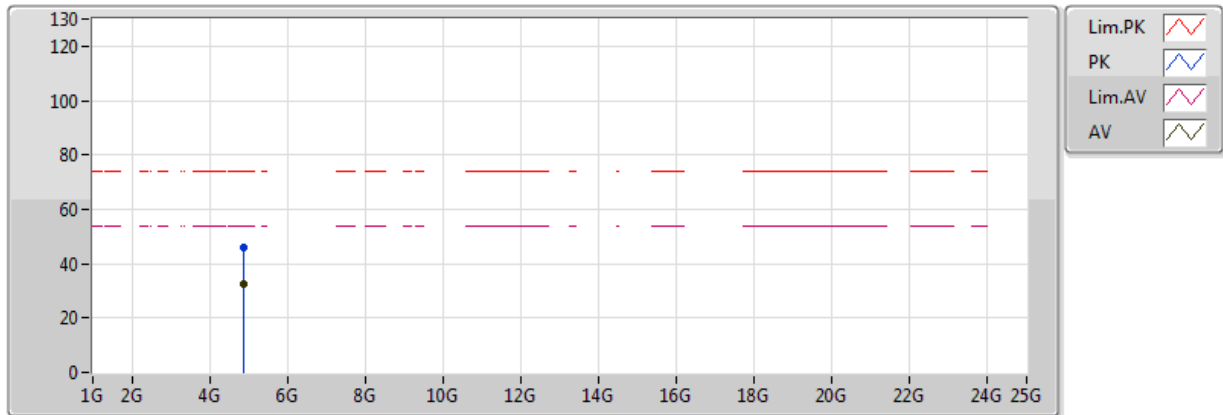


20171005
EUT_Z_2TX
Setting 20
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3894G	51.24	54.00	-2.76	31.94	3	Horizontal	103	1.23					
AV	2.4398G	93.63	Inf	-Inf	32.09	3	Horizontal	103	1.23					
AV	2.4838G	50.86	54.00	-3.14	32.22	3	Horizontal	103	1.23					
PK	2.3894G	65.55	74.00	-8.45	31.94	3	Horizontal	103	1.23					
PK	2.4446G	104.97	Inf	-Inf	32.10	3	Horizontal	103	1.23					
PK	2.4838G	66.25	74.00	-7.75	32.22	3	Horizontal	103	1.23					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

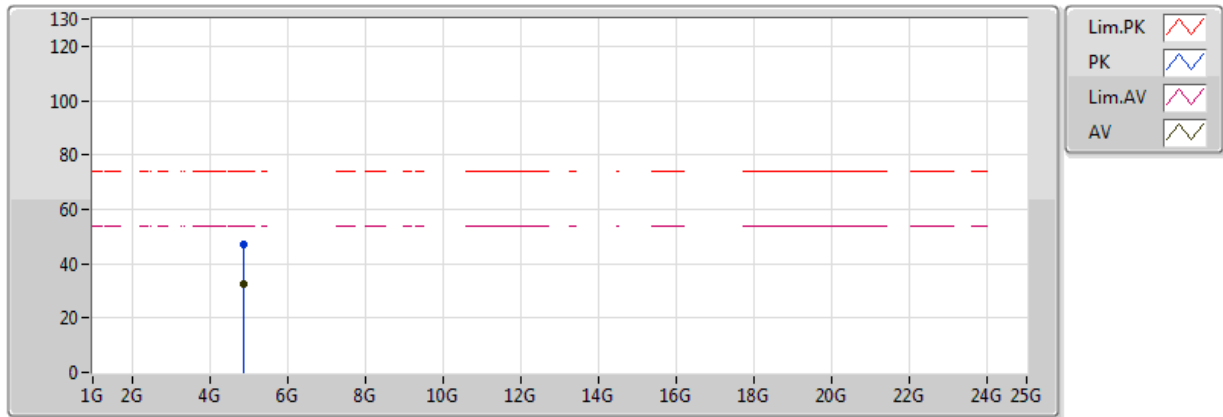


20171005
EUT_Z_2TX
Setting 20
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.87256G	32.41	54.00	-21.59	8.23	3	Vertical	64	1.07					
PK	4.88G	46.04	74.00	-27.96	8.26	3	Vertical	64	1.07					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

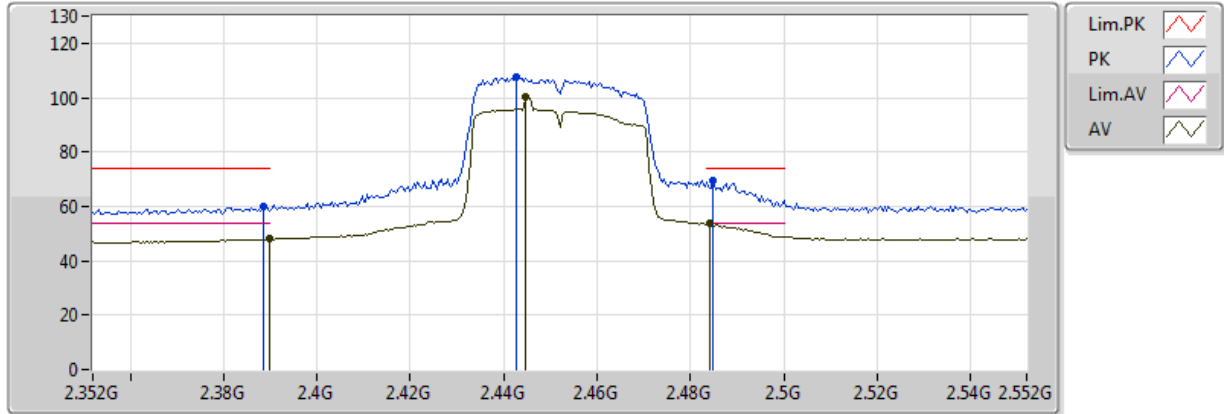


20171005
EUT_Z_2TX
Setting 20
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.884G	32.45	54.00	-21.55	8.27	3	Horizontal	258	1.38					
PK	4.8828G	47.12	74.00	-26.88	8.27	3	Horizontal	258	1.38					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

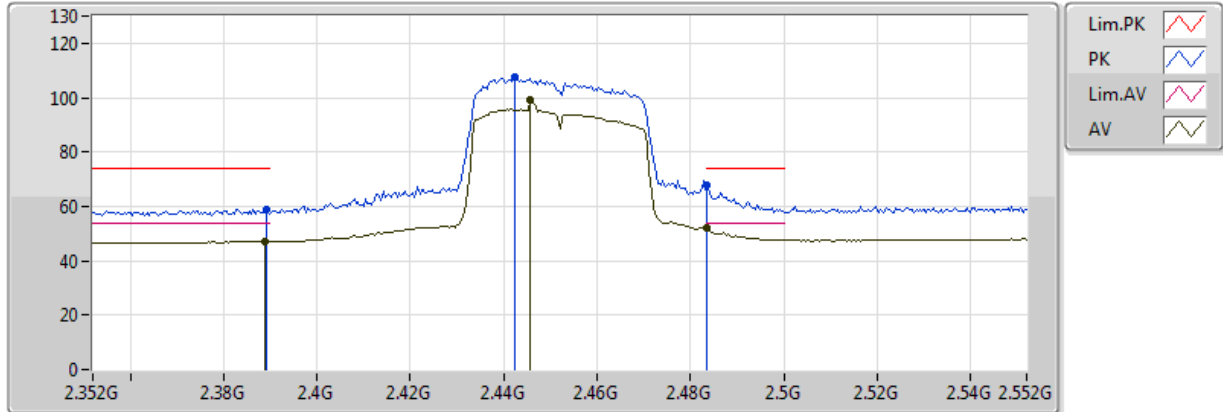


20171005
EUT_Z_2TX
Setting 18
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	48.05	54.00	-5.95	31.94	3	Vertical	26	1.03					
AV	2.4448G	100.49	Inf	-Inf	32.10	3	Vertical	26	1.03					
AV	2.484G	53.59	54.00	-0.41	32.22	3	Vertical	26	1.03					
PK	2.3884G	60.01	74.00	-13.99	31.93	3	Vertical	26	1.03					
PK	2.4428G	107.85	Inf	-Inf	32.10	3	Vertical	26	1.03					
PK	2.4848G	69.35	74.00	-4.65	32.22	3	Vertical	26	1.03					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

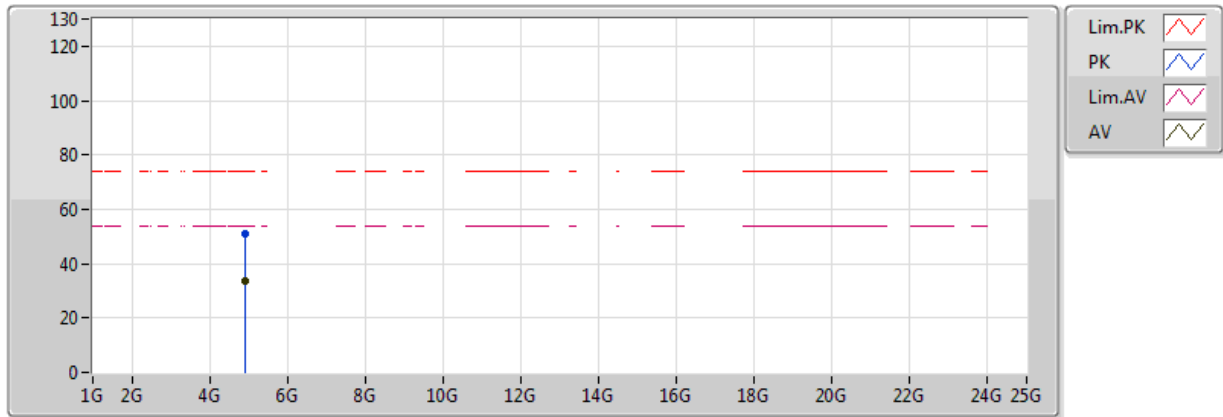


20171005
EUT_Z_2TX
Setting 18
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3888G	47.34	54.00	-6.66	31.94	3	Horizontal	77	2.69					
AV	2.4456G	99.32	Inf	-Inf	32.11	3	Horizontal	77	2.69					
AV	2.4836G	52.21	54.00	-1.79	32.22	3	Horizontal	77	2.69					
PK	2.3892G	58.73	74.00	-15.27	31.94	3	Horizontal	77	2.69					
PK	2.4424G	107.31	Inf	-Inf	32.10	3	Horizontal	77	2.69					
PK	2.4836G	67.99	74.00	-6.01	32.22	3	Horizontal	77	2.69					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

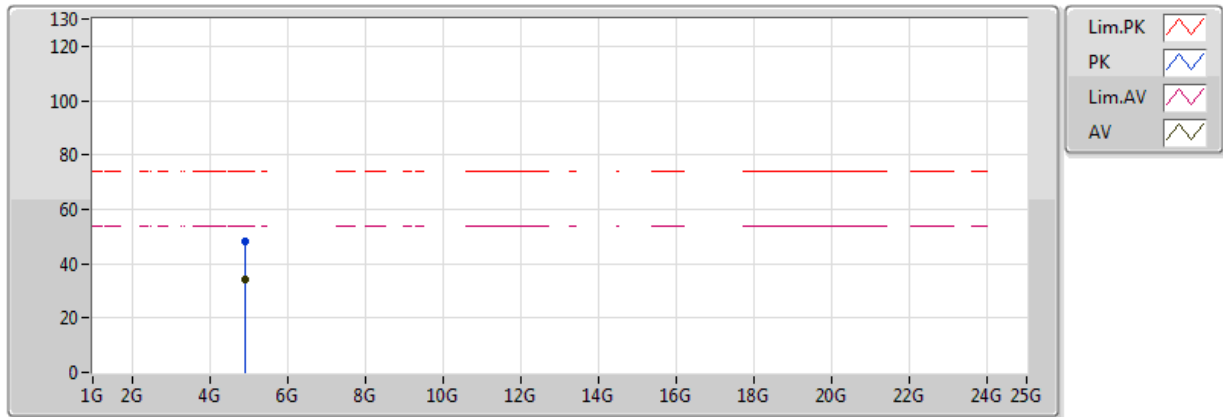


20171005
EUT_Z_2TX
Setting 18
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.90376G	33.69	54.00	-20.31	8.33	3	Vertical	71	1.83					
PK	4.9041G	50.86	74.00	-23.14	8.33	3	Vertical	71	1.83					

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX



20171005
EUT_Z_2TX
Setting 18
02-G2
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.90416G	33.94	54.00	-20.06	8.33	3	Horizontal	303	1.52					
PK	4.90344G	48.40	74.00	-25.60	8.33	3	Horizontal	303	1.52					