



FCC RADIO TEST REPORT

FCC ID : S9GR320
Equipment : R320 Access Point
Brand Name : Ruckus
Model Name : R320
Applicant : Ruckus Wireless, Inc.
350 W. Java Dr., Sunnyvale, CA 94089 USA
Manufacturer : Lite-On Network Communication (Dongguan)
Limited
30#Keji Rd., Yin Hu Industrial Area, Qingxi Town,
DongGuan City, Guangdong, China
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 09, 2018, and testing was started from Oct. 11, 2018 and completed on Jan. 16, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Cindy Peng



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20)	5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5250-5350	n (HT40), ac (VHT40)	5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5250-5350	ac (VHT80)	5290	58 [1]
5470-5725		5530-5690	106-138 [3]

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	2TX
5.25-5.35GHz	802.11n HT20	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ac VHT20-BF	20	2TX
5.25-5.35GHz	802.11n HT40	40	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ac VHT40-BF	40	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.25-5.35GHz	802.11ac VHT80-BF	80	2TX
5.47-5.725GHz	802.11a	20	2TX
5.47-5.725GHz	802.11n HT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT20-BF	20	2TX
5.47-5.725GHz	802.11n HT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT40-BF	40	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT80-BF	80	2TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 and VHT80 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)	
	2.4GHz	5GHz					2.4GHz	5GHz
1	1	2	Ruckus	R310	PCB Antenna	I-PEX	0	3
2	2	1	Ruckus	R310	PCB Antenna	I-PEX	0	3

Note 1: The above information was declared by manufacturer.

Note 2: The EUT has two antennas (2TX/2RX).

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.968	0.141	2.081m	1k
802.11ac VHT20	0.984	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	0.971	0.128	2.441m	1k
802.11ac VHT80	0.939	0.273	1.155m	1k

Note:

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

**1.1.4 EUT Operational Condition**

EUT Power Type	From power adapter or PoE		
Beamforming Function	☒ With beamforming	☐ Without beamforming	
	The product has beam-forming function for 802.11ac.		
Weather Band	☒ With 5600~5650MHz	☐ Without 5600~5650MHz	
Function	☐ Outdoor P2M	☒ Indoor P2M	
	☐ Fixed P2P	☐ Client	
TPC Function	☒ With TPC	☐ Without TPC	
Test Software Version	QRCT V3.0.210.0		

Note: The above information was declared by manufacturer.

1.1.5 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR8O0618

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Adding 5GHz band 2 and band 3 (5250~5350 MHz, 5470~5725 MHz) for this device	1. Emission Bandwidth. 2. Maximum Conducted Output Power. 3. Peak Power Spectral Density. 4. Unwanted Emissions Above 1GHz.



1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location			
☐	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
☒	JHUBEI	ADD : No.8, 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	Owen Hsu	22°C / 51%	Oct. 11, 2018~Jan. 16, 2019
Radiated	03CH01-CB	Paul Chen	22°C / 54%	Dec. 28, 2018~Jan. 14, 2019

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
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
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	20
5300MHz	20
5320MHz	20
5500MHz	20
5580MHz	20
5700MHz	20
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5260MHz	20
5300MHz	20
5320MHz	20
5500MHz	20
5580MHz	20
5700MHz	20
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5270MHz	20
5310MHz	18
5510MHz	18
5550MHz	19.5
5670MHz	19.5
5710MHz Straddle 5.47-5.725GHz	20
5710MHz Straddle 5.725-5.85GHz	20
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5290MHz	16
5530MHz	17
5610MHz	20
5690MHz Straddle 5.47-5.725GHz	20



Mode	Power Setting
5690MHz Straddle 5.725-5.85GHz	20

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.
- ♦ The device(2T2R) supports TX-Beamforming . The power setting will be 3dB lower than Non-TXBF.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode > 1GHz	CTX
The EUT was performed at Y axis and Z axis position. The worst case was found at Y axis, so it was selected to perform test and its test result was written in the report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA8O0618-01 for Co-location RF Exposure Evaluation.	

Note: The adapter and PoE were for measurement only, it would not be marketed.

Equipment	Brand Name	Model Name	FCC ID
Adapter	Ruckus	HK-AR-120A100-US	N/A
PoE	GOSPELL	G0720-480-050	N/A

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories	T-bar bracket*1 and Locking tab*1
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2.5 Support Equipment

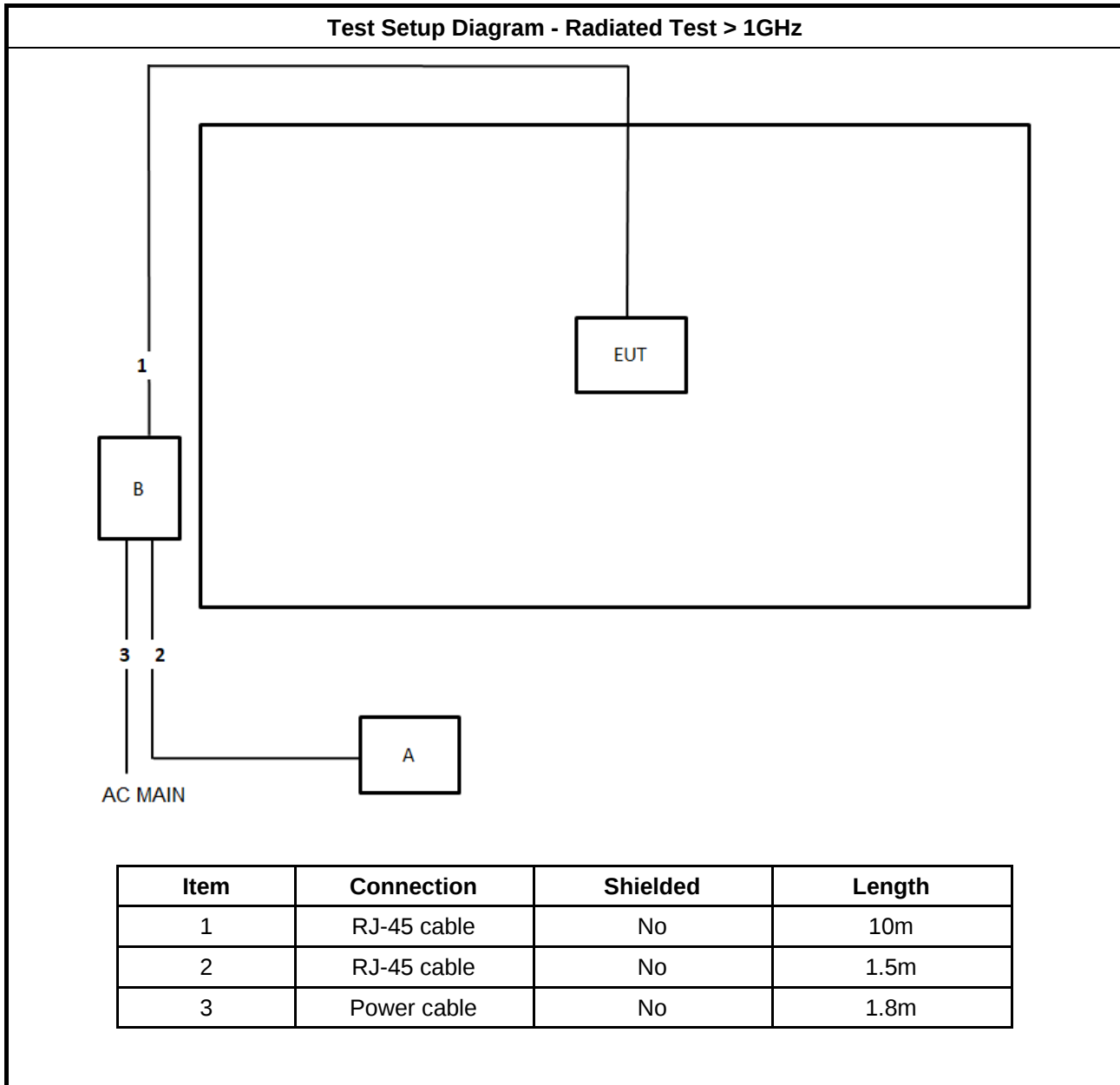
For Test Site No: 03CH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE	GOSPELL	G0720-480-050	N/A

For Test Site No: TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Adapter	Ruckus	HK-AR-120A100-US	N/A

2.6 Test Setup Diagram



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☐	For the 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

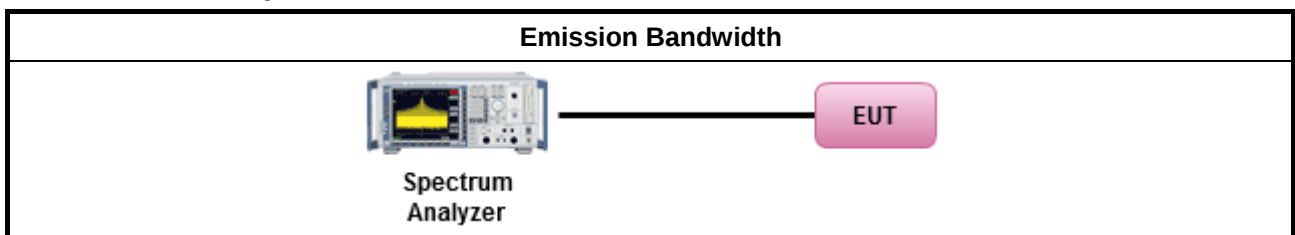
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☐ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
☐ For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.2.2 Measuring Instruments

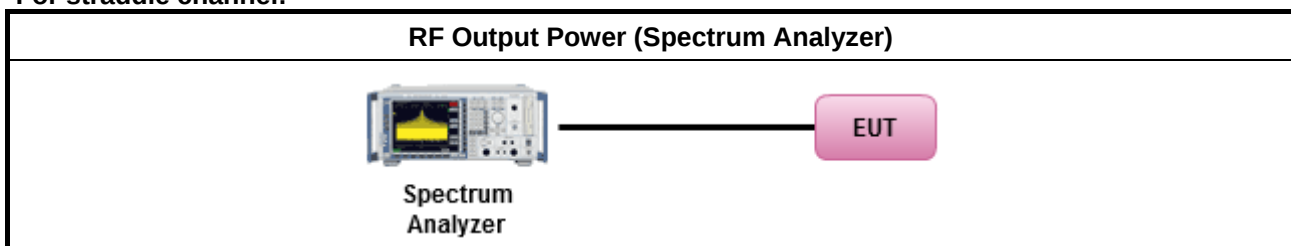
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

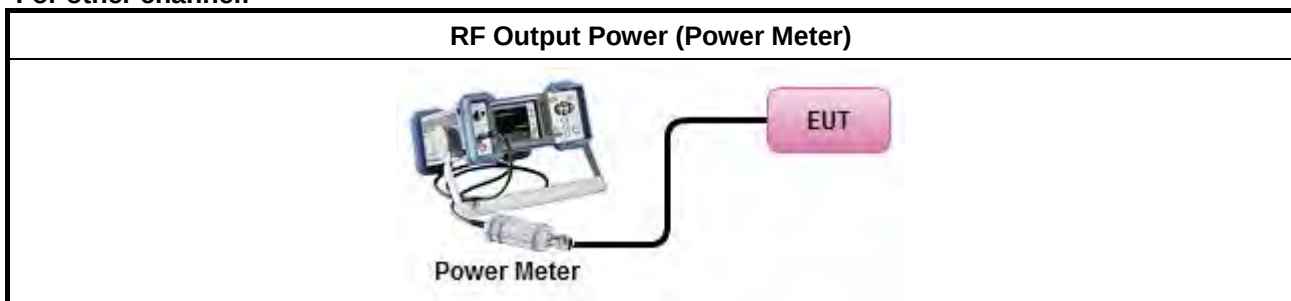
Test Method	
Maximum Conducted Output Power	
Average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging) for straddle channel.
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter) for other channel.
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]) $EIRP_{total} = P_{total} + DG$	

3.2.4 Test Setup

For straddle channel:



For other channel:



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☐ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that the same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

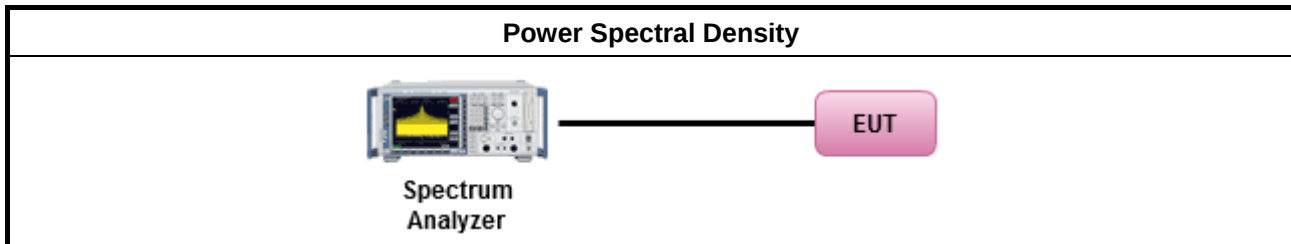
3.3.2 Measuring Instruments

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

**3.3.3 Test Procedures**

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
☒	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with 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.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C



3.4 Unwanted Emissions

3.4.1 Transmitter Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz 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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
☐ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note 1: 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).

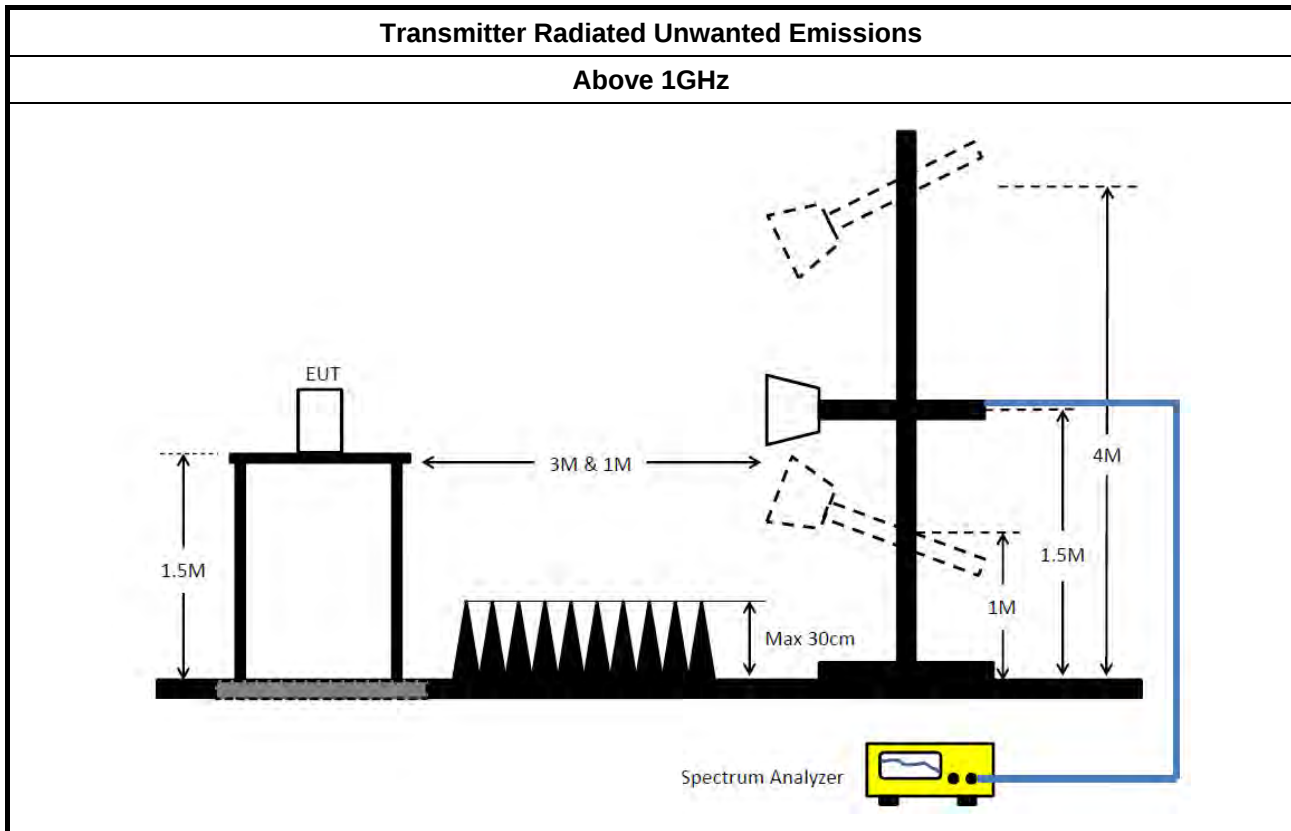
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
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. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. 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).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.	
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.4.4 Test Setup



3.4.5 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA917025 2	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC12630S E	980383	1GHz ~ 26.5GHz	Aug. 09, 2018	Aug. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35- HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jun. 22, 2018	Jun. 21, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 05, 2018	Nov. 04, 2019	Conducted (TH01-CB)

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.25M	16.467M	16M5D1D	20.95M	16.417M
802.11ac VHT20_Nss1,(MCS0)_2TX	25.15M	17.641M	17M6D1D	20.9M	17.616M
802.11ac VHT40_Nss1,(MCS0)_2TX	60.55M	36.182M	36M2D1D	39.85M	36.032M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.4M	75.762M	75M8D1D	83.3M	75.662M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23M	16.467M	16M5D1D	15.18M	13.29M
802.11ac VHT20_Nss1,(MCS0)_2TX	22.85M	17.666M	17M7D1D	15.45M	13.875M
802.11ac VHT40_Nss1,(MCS0)_2TX	48.335M	36.082M	36M1D1D	39.445M	33.075M
802.11ac VHT80_Nss1,(MCS0)_2TX	84.2M	75.862M	75M9D1D	76.425M	72.375M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.14M	5.2M	5M20D1D	3.12M	3.66M
802.11ac VHT20_Nss1,(MCS0)_2TX	3.86M	4.72M	4M72D1D	3.74M	4.08M
802.11ac VHT40_Nss1,(MCS0)_2TX	3.12M	17.18M	17M2D1D	3.12M	9.96M
802.11ac VHT80_Nss1,(MCS0)_2TX	3.14M	29.18M	29M2D1D	3.12M	22.18M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

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)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	20.95M	16.442M	21.1M	16.442M
5300MHz	Pass	Inf	21.075M	16.417M	20.975M	16.417M
5320MHz	Pass	Inf	21M	16.442M	21.25M	16.467M
5500MHz	Pass	Inf	21.025M	16.417M	20.725M	16.467M
5580MHz	Pass	Inf	21.15M	16.417M	20.375M	16.442M
5700MHz	Pass	Inf	23M	16.467M	20.55M	16.417M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.26M	13.335M	15.18M	13.29M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	5.2M	3.14M	3.66M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.575M	17.641M	25.15M	17.641M
5300MHz	Pass	Inf	20.9M	17.616M	22.825M	17.616M
5320MHz	Pass	Inf	22.275M	17.641M	22.4M	17.641M
5500MHz	Pass	Inf	20.55M	17.591M	21.15M	17.641M
5580MHz	Pass	Inf	20.825M	17.641M	20.925M	17.641M
5700MHz	Pass	Inf	22.85M	17.666M	21.025M	17.641M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	18.285M	13.89M	15.45M	13.875M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.86M	4.72M	3.74M	4.08M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	51.55M	36.132M	60.55M	36.182M
5310MHz	Pass	Inf	39.85M	36.032M	39.95M	36.032M
5510MHz	Pass	Inf	39.55M	36.032M	39.7M	35.932M
5550MHz	Pass	Inf	44.1M	36.082M	45.8M	36.032M
5670MHz	Pass	Inf	46.1M	35.932M	39.65M	35.982M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	48.335M	33.11M	39.445M	33.075M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	17.18M	3.12M	9.96M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	83.3M	75.762M	83.4M	75.662M
5530MHz	Pass	Inf	83.8M	75.662M	82.9M	75.462M
5610MHz	Pass	Inf	84.2M	75.862M	83.3M	75.862M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	83.55M	72.525M	76.425M	72.375M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	29.18M	3.12M	22.18M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

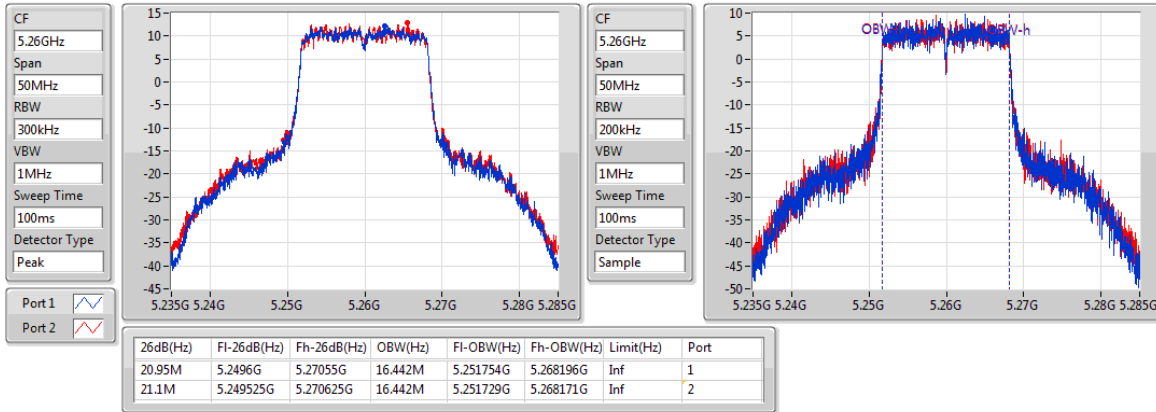
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

5260MHz

03/01/2019

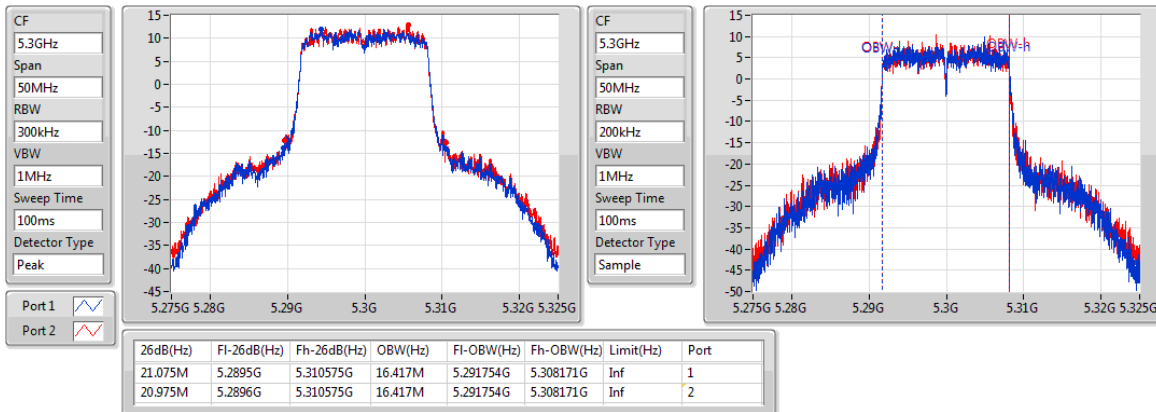


802.11a_Nss1,(6Mbps)_2TX

EBW

5300MHz

03/01/2019

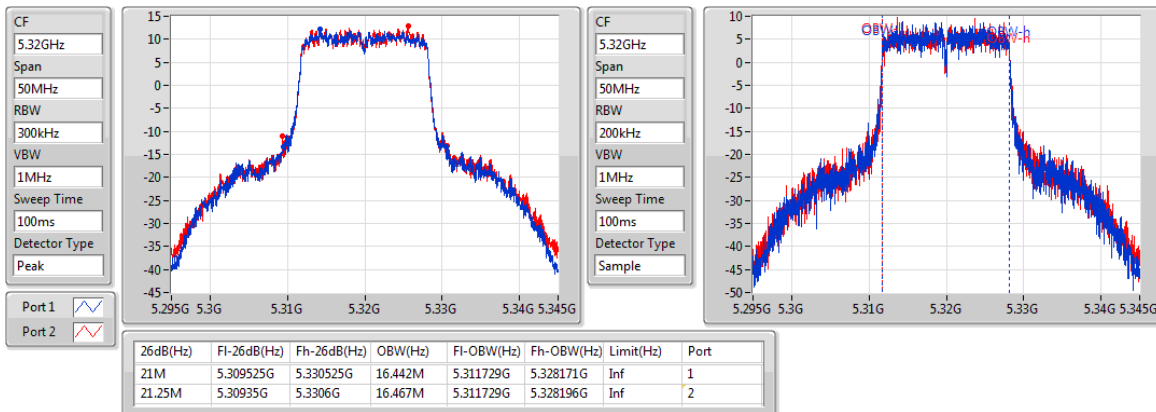


802.11a_Nss1,(6Mbps)_2TX

EBW

5320MHz

03/01/2019

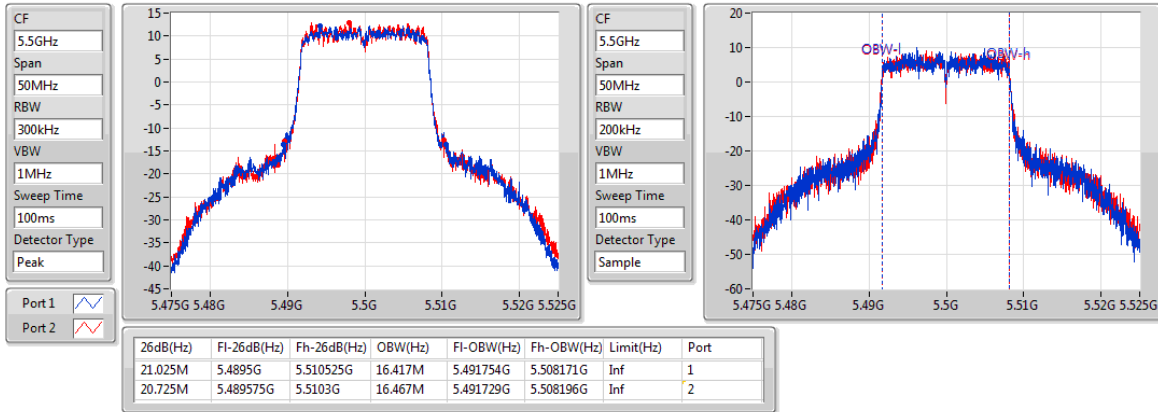


802.11a_Nss1,(6Mbps)_2TX

EBW

5500MHz

03/01/2019

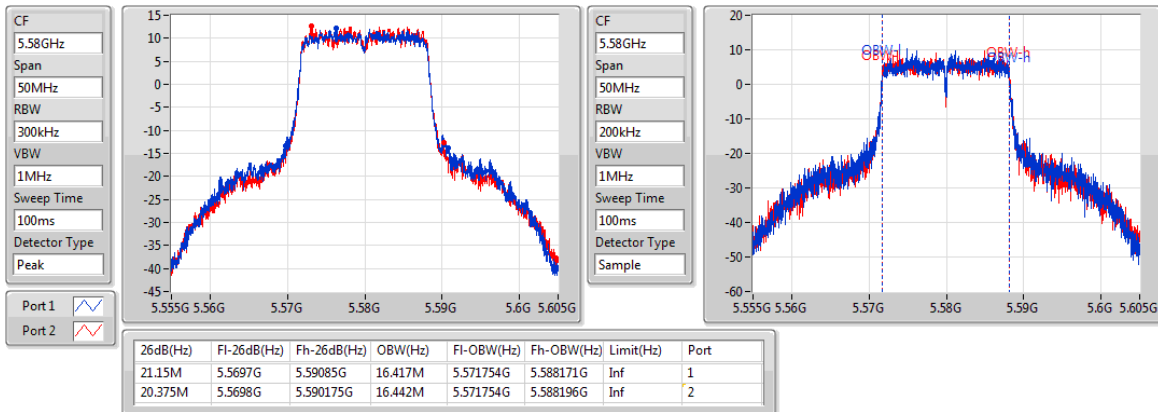


802.11a_Nss1,(6Mbps)_2TX

EBW

5580MHz

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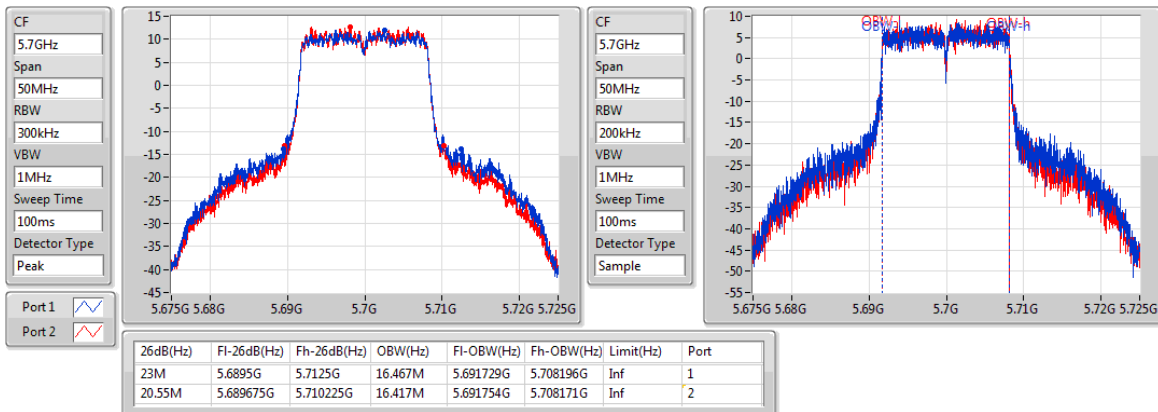


802.11a_Nss1,(6Mbps)_2TX

EBW

5700MHz

03/01/2019

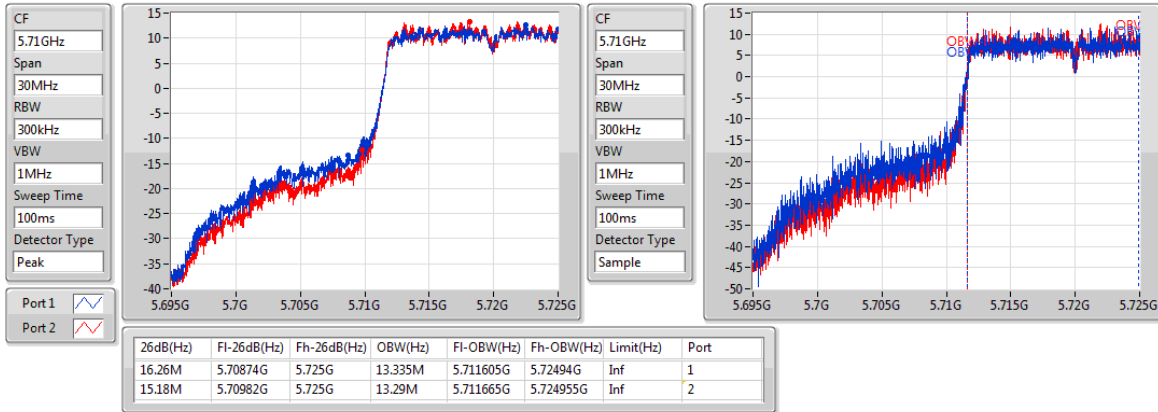


802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

16/01/2019

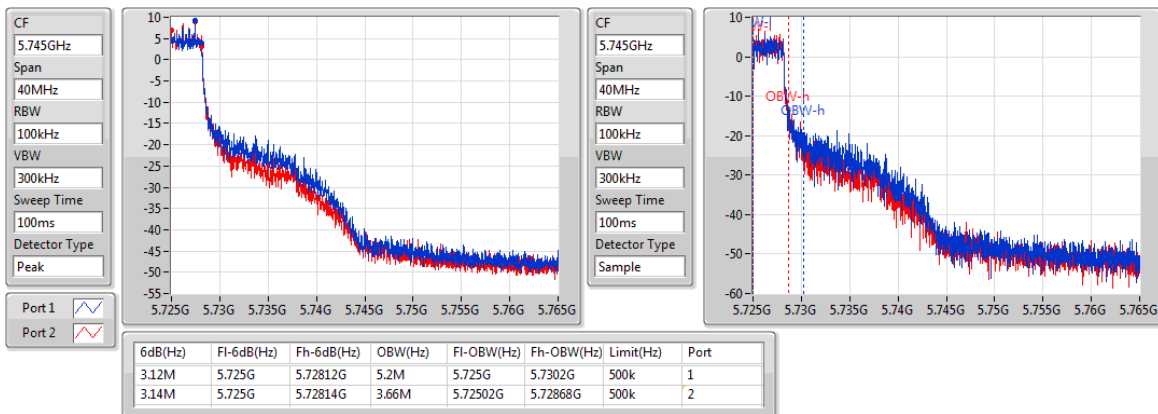


802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

16/01/2019

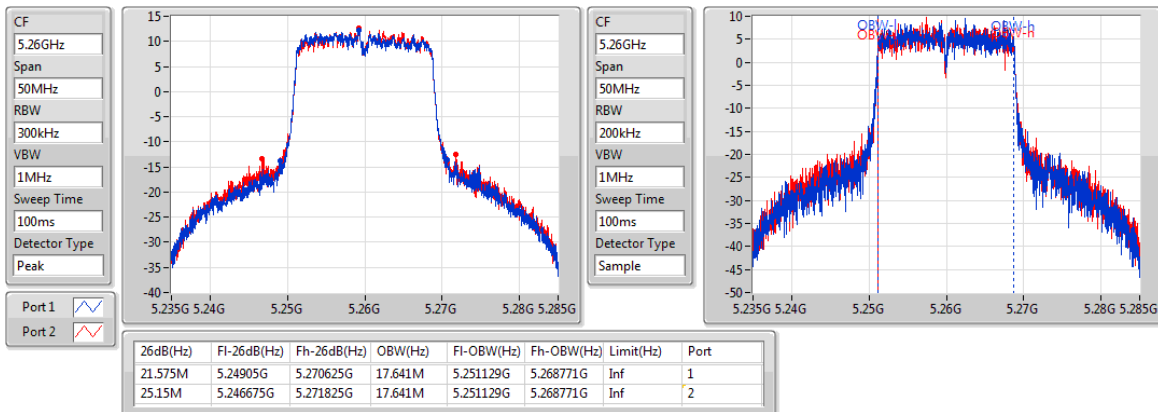


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5260MHz

03/01/2019

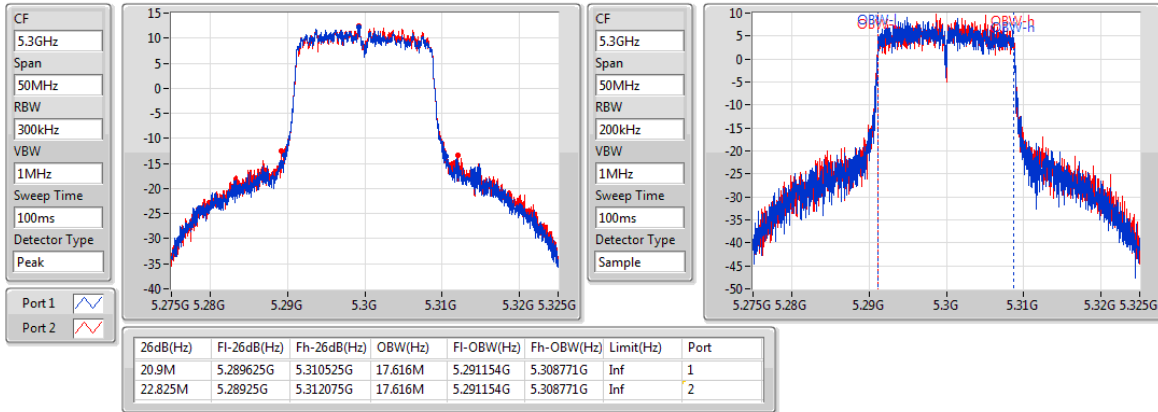


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5300MHz

03/01/2019

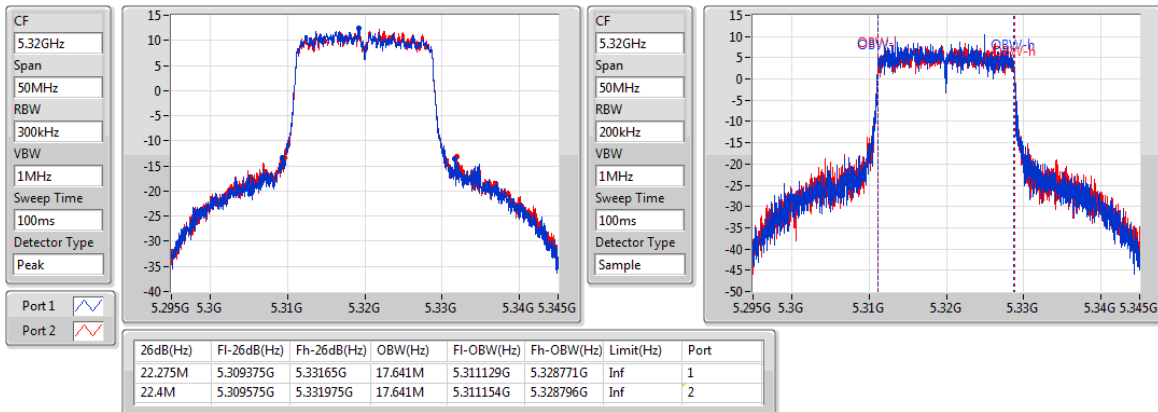


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5320MHz

03/01/2019

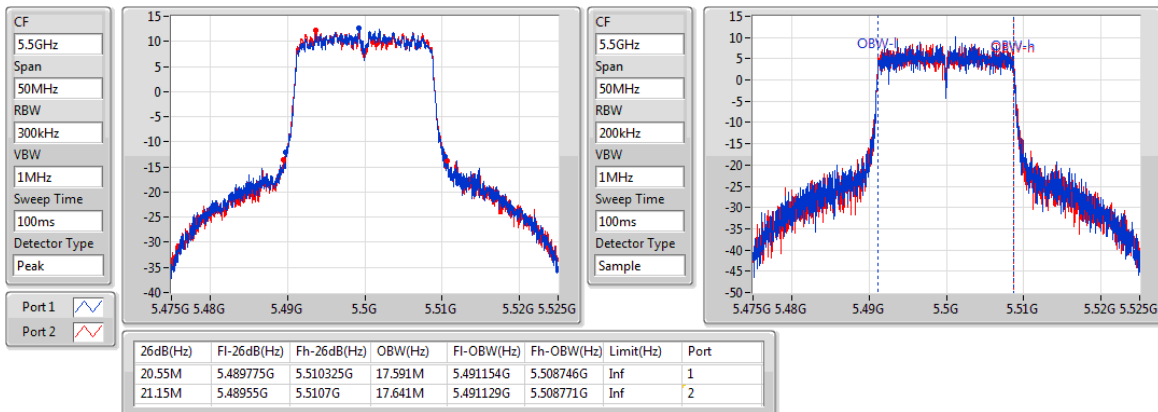


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5500MHz

03/01/2019

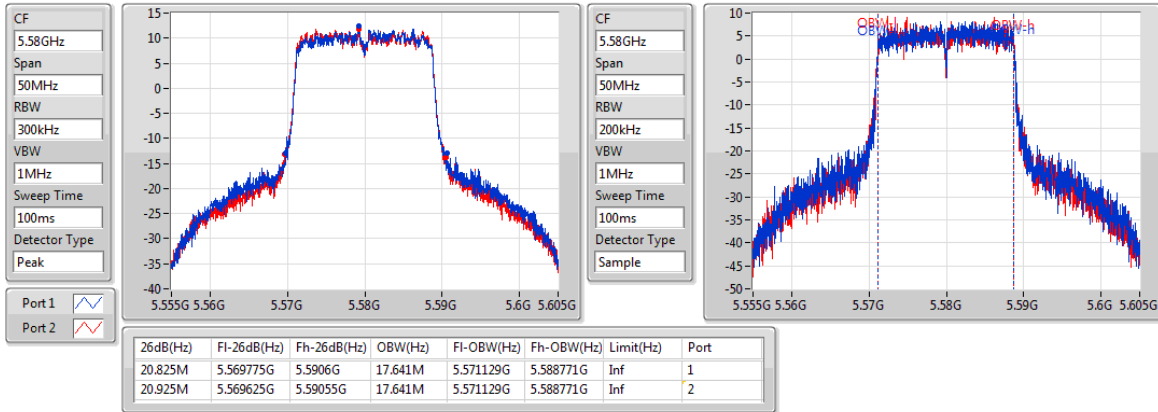


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5580MHz

03/01/2019

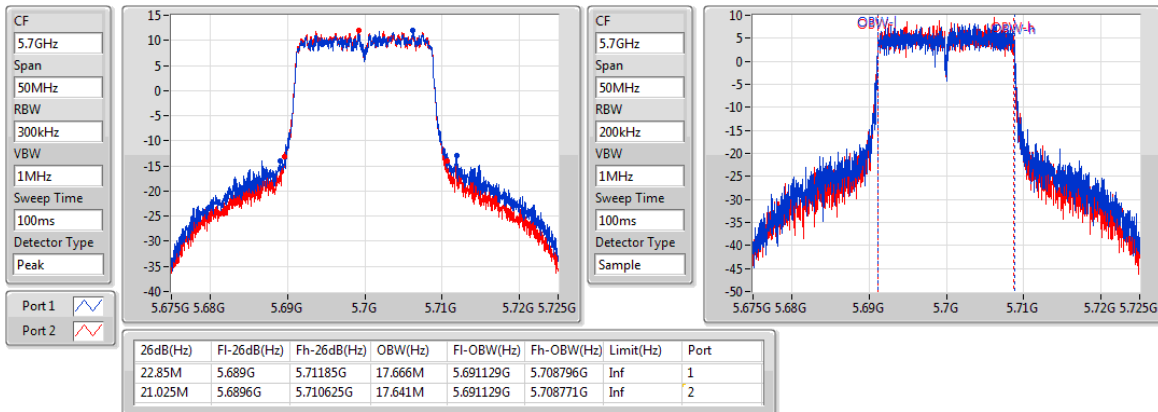


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5700MHz

03/01/2019

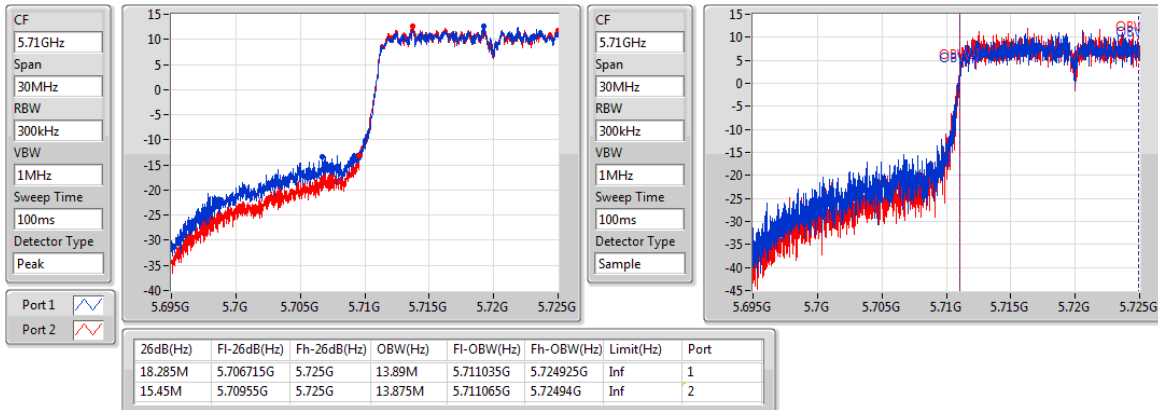


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

16/01/2019

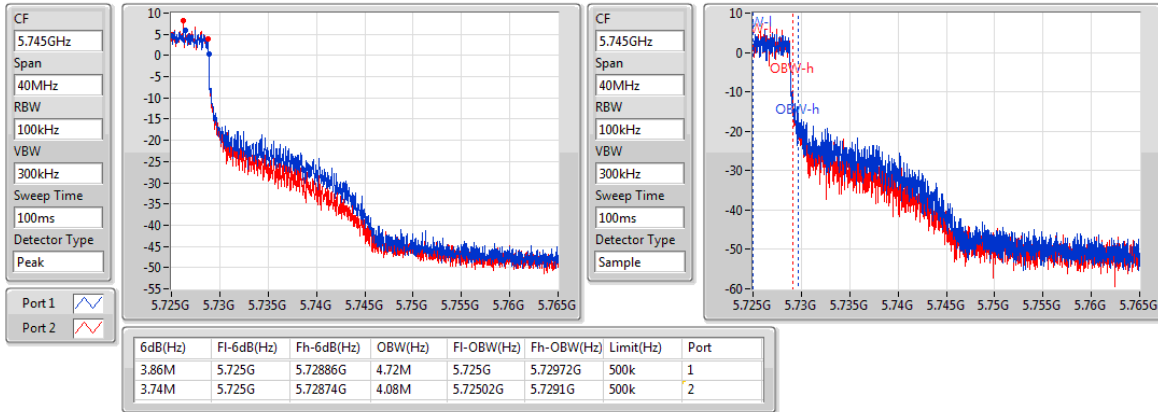


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

16/01/2019

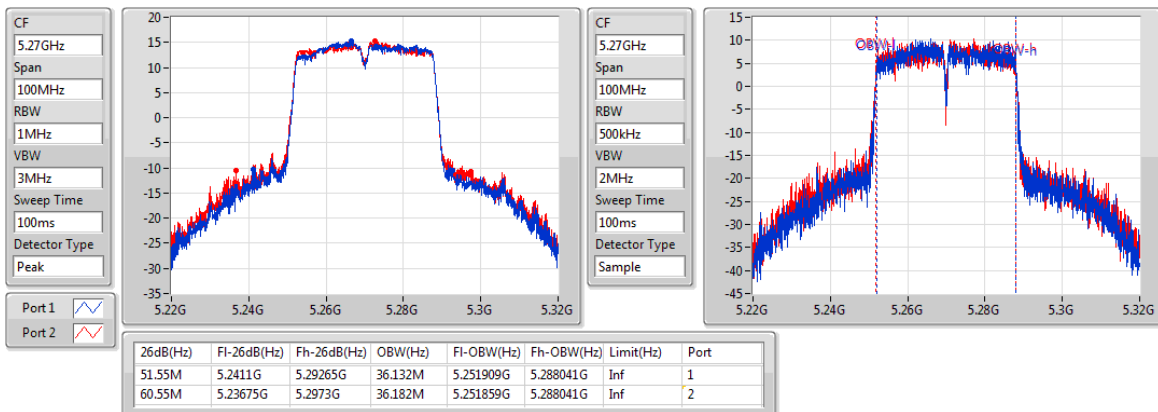


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5270MHz

03/01/2019

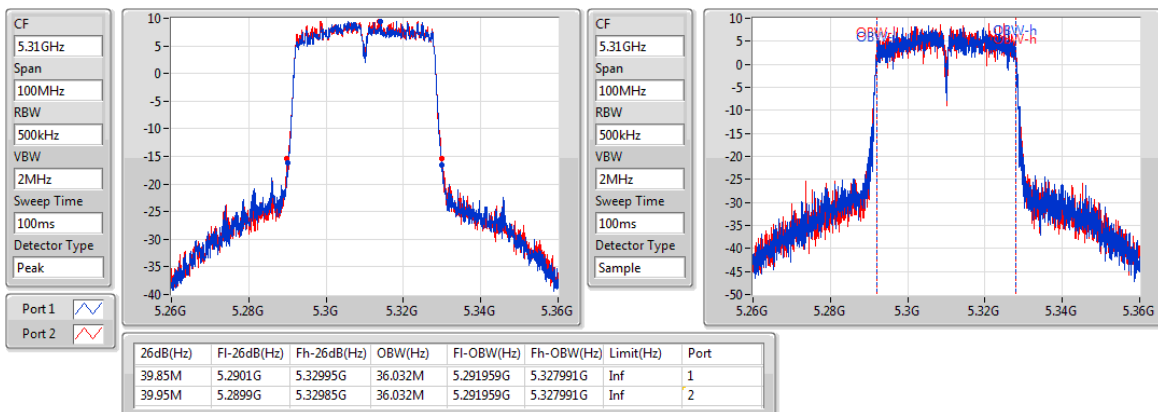


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5310MHz

03/01/2019

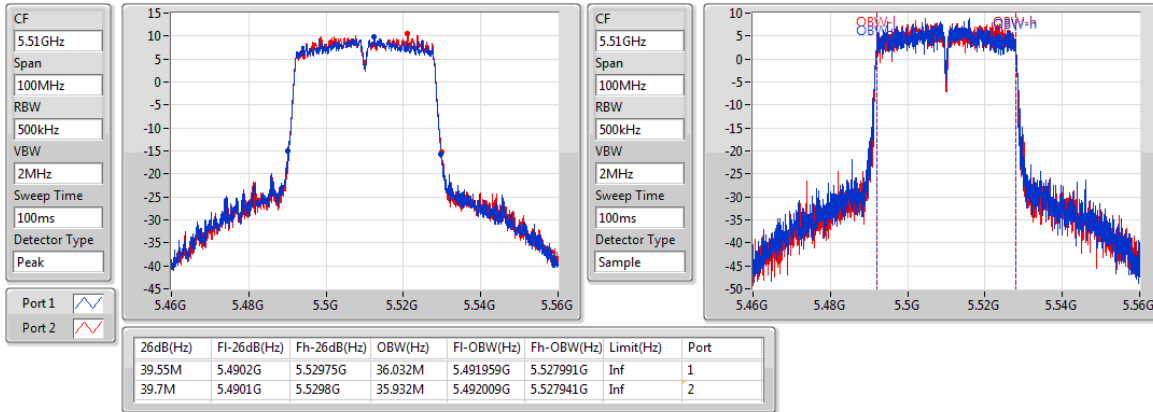


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5510MHz

03/01/2019

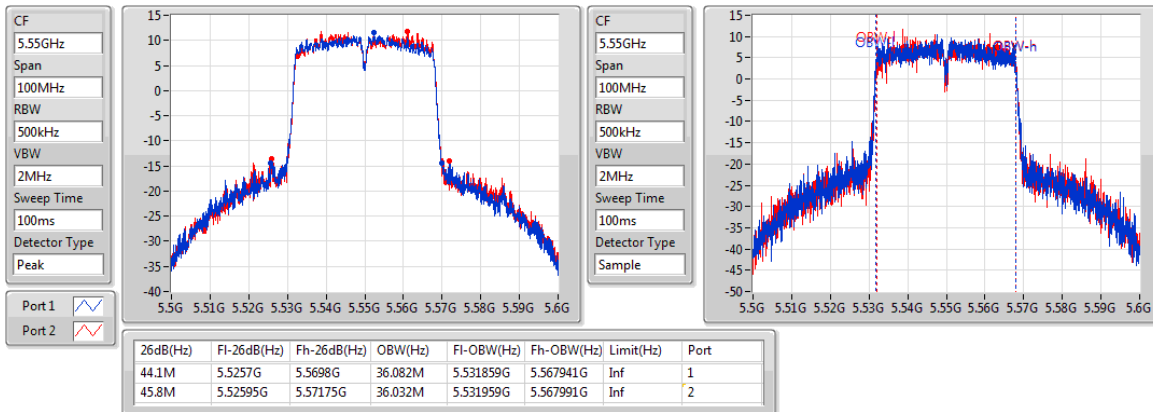


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5550MHz

03/01/2019

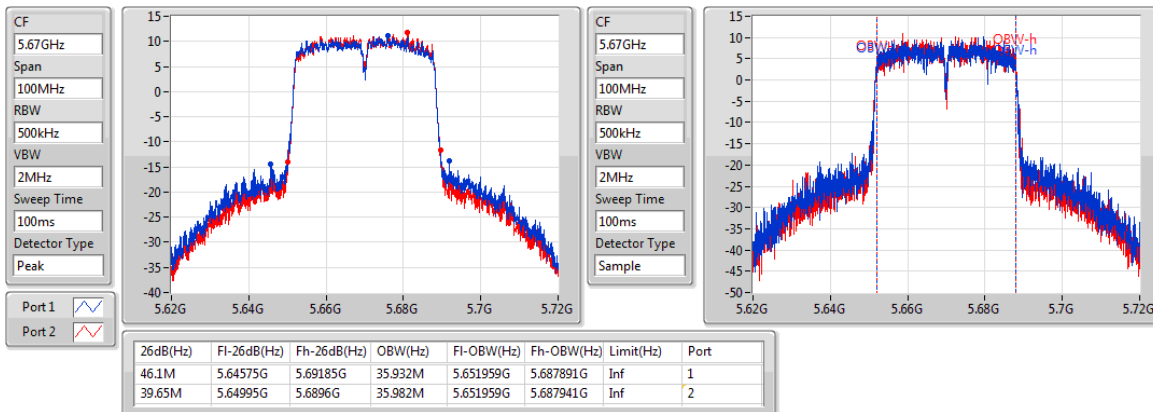


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5670MHz

03/01/2019

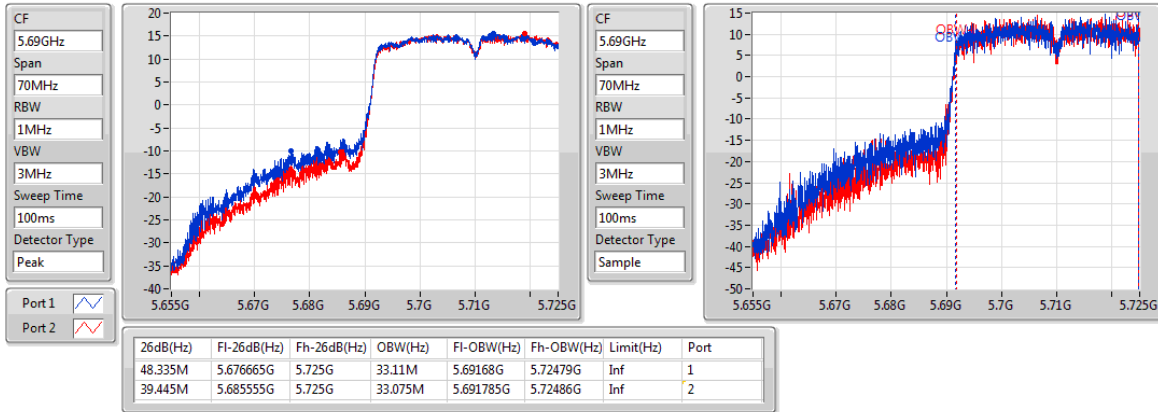


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.47-5.725GHz

16/01/2019

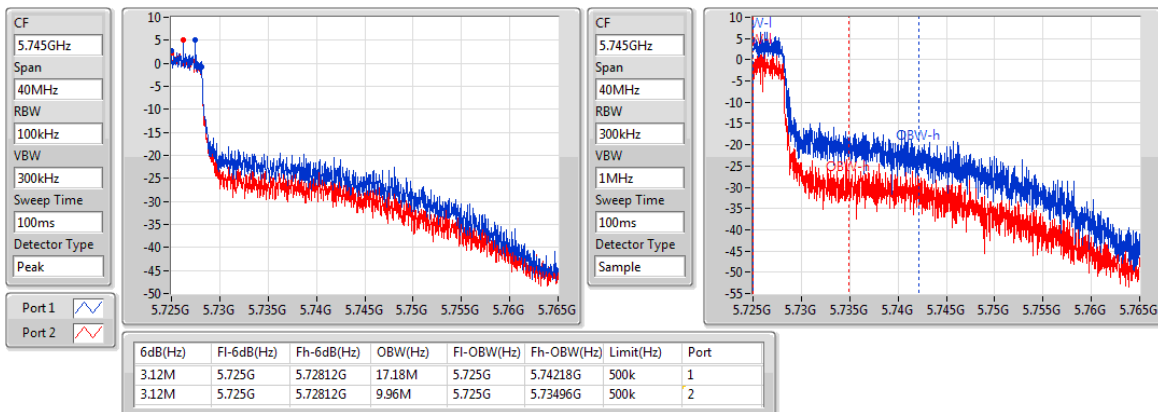


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

16/01/2019

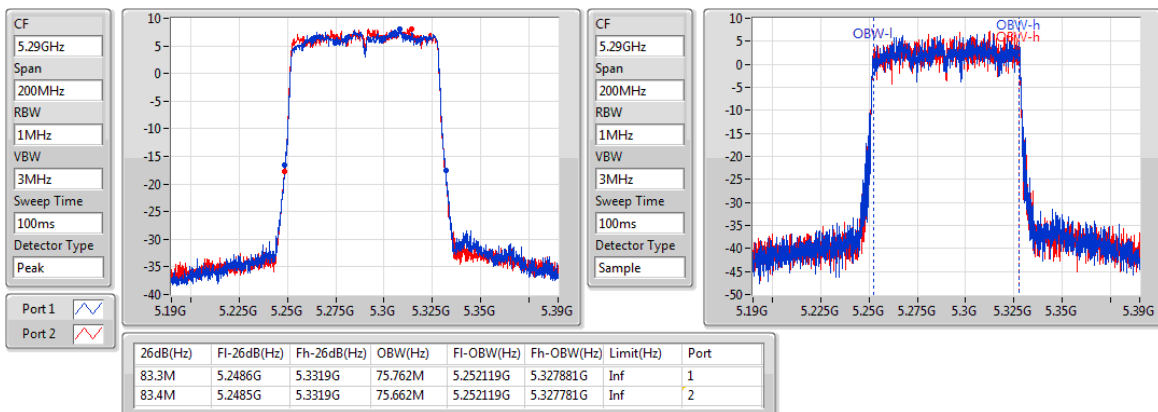


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5290MHz

03/01/2019

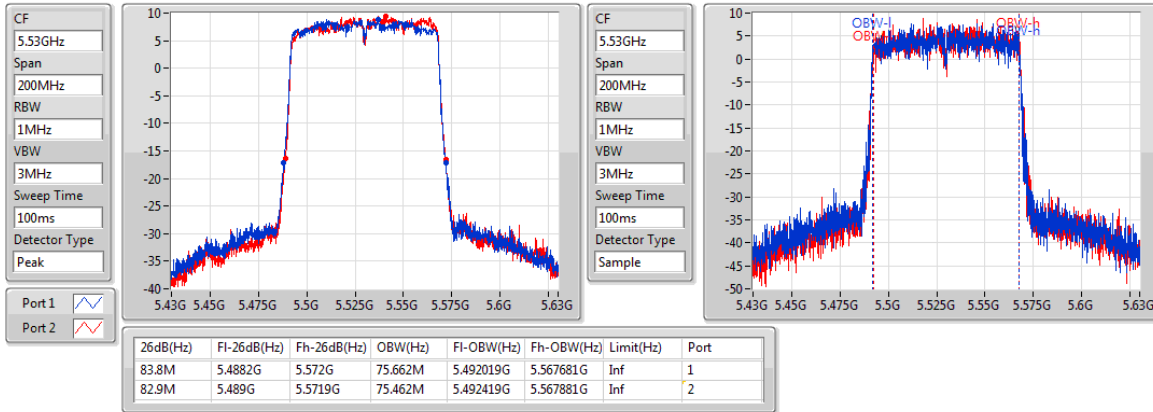


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5530MHz

03/01/2019

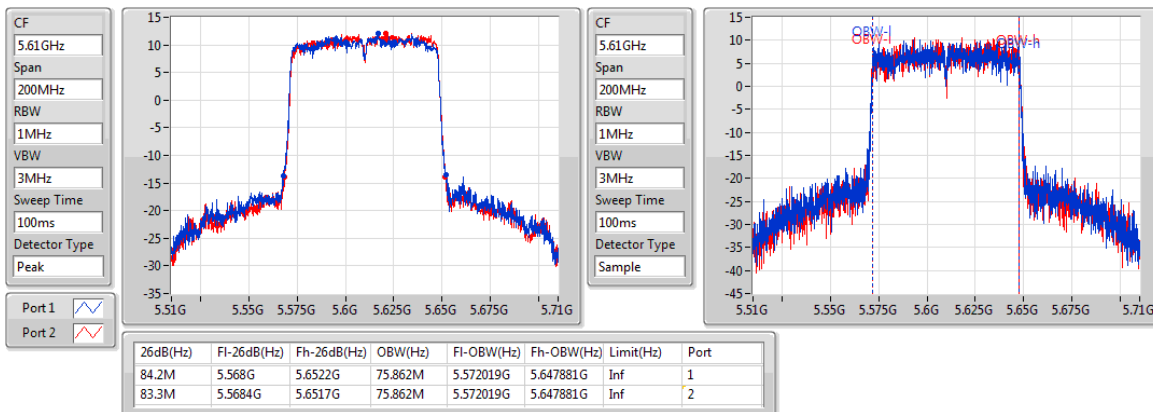


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5610MHz

03/01/2019

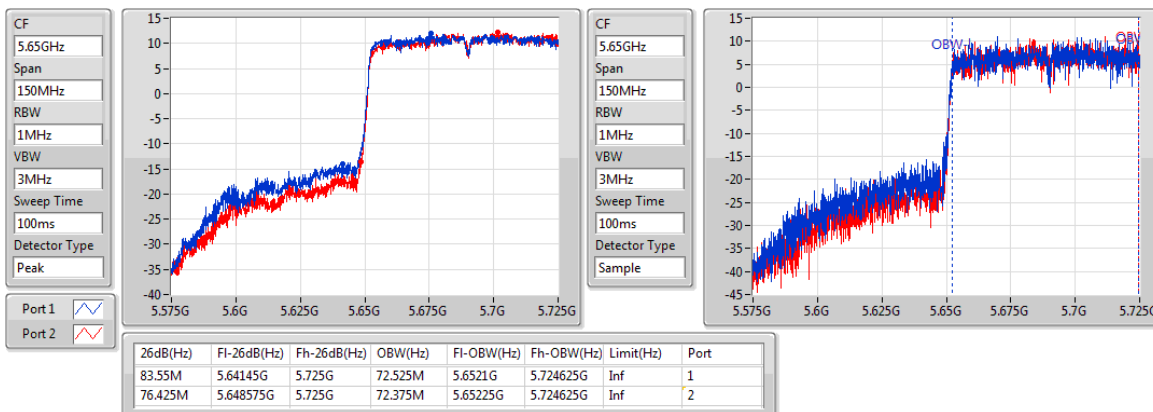


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

16/01/2019

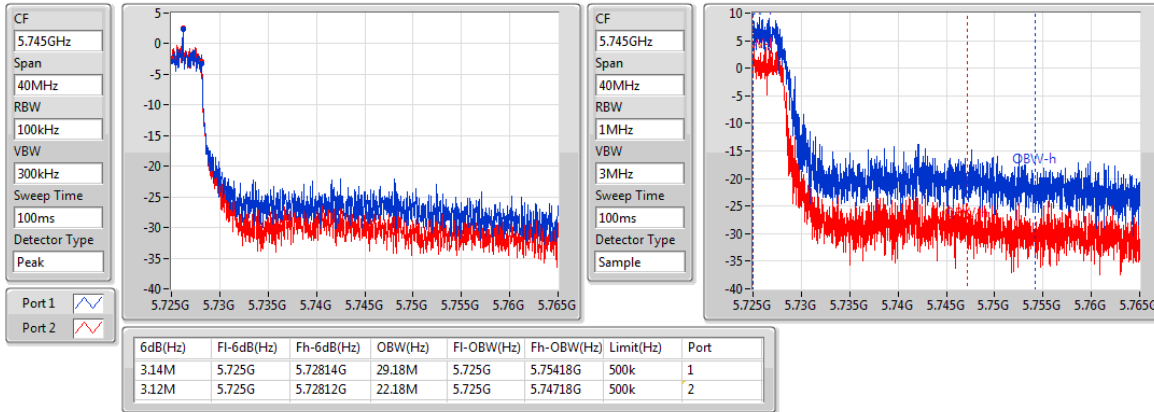


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

16/01/2019





Power Result

Appendix B

Summary

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	23.45	0.22131
802.11ac VHT20_Nss1,(MCS0)_2TX	23.85	0.24266
802.11ac VHT40_Nss1,(MCS0)_2TX	23.95	0.24831
802.11ac VHT80_Nss1,(MCS0)_2TX	19.82	0.09594
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	23.46	0.22182
802.11ac VHT20_Nss1,(MCS0)_2TX	23.83	0.24155
802.11ac VHT40_Nss1,(MCS0)_2TX	23.76	0.23768
802.11ac VHT80_Nss1,(MCS0)_2TX	23.71	0.23496
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	14.19	0.02624
802.11ac VHT20_Nss1,(MCS0)_2TX	14.57	0.02864
802.11ac VHT40_Nss1,(MCS0)_2TX	10.20	0.01047
802.11ac VHT80_Nss1,(MCS0)_2TX	7.48	0.00560

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	3.00	20.45	20.41	23.44	23.98
5300MHz	Pass	3.00	20.36	20.37	23.38	23.98
5320MHz	Pass	3.00	20.49	20.39	23.45	23.98
5500MHz	Pass	3.00	20.42	20.47	23.46	23.98
5580MHz	Pass	3.00	20.32	20.57	23.46	23.98
5700MHz	Pass	3.00	20.15	20.61	23.40	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	3.00	17.35	17.52	20.45	22.81
5720MHz Straddle 5.725-5.85GHz	Pass	3.00	11.08	11.28	14.19	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	3.00	20.77	20.90	23.85	23.98
5300MHz	Pass	3.00	20.67	20.74	23.72	23.98
5320MHz	Pass	3.00	20.75	20.80	23.79	23.98
5500MHz	Pass	3.00	20.89	20.75	23.83	23.98
5580MHz	Pass	3.00	20.72	20.79	23.77	23.98
5700MHz	Pass	3.00	20.55	20.83	23.70	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	3.00	17.22	17.34	20.29	22.89
5720MHz Straddle 5.725-5.85GHz	Pass	3.00	11.46	11.65	14.57	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	3.00	20.88	21.00	23.95	23.98
5310MHz	Pass	3.00	19.08	19.20	22.15	23.98
5510MHz	Pass	3.00	19.13	19.31	22.23	23.98
5550MHz	Pass	3.00	20.65	20.85	23.76	23.98
5670MHz	Pass	3.00	20.47	20.71	23.60	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	3.00	18.54	18.52	21.54	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	3.00	7.14	7.23	10.20	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	3.00	16.77	16.85	19.82	23.98
5530MHz	Pass	3.00	17.72	17.96	20.85	23.98
5610MHz	Pass	3.00	20.56	20.83	23.71	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	3.00	18.22	18.14	21.19	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	3.00	4.33	4.61	7.48	30.00

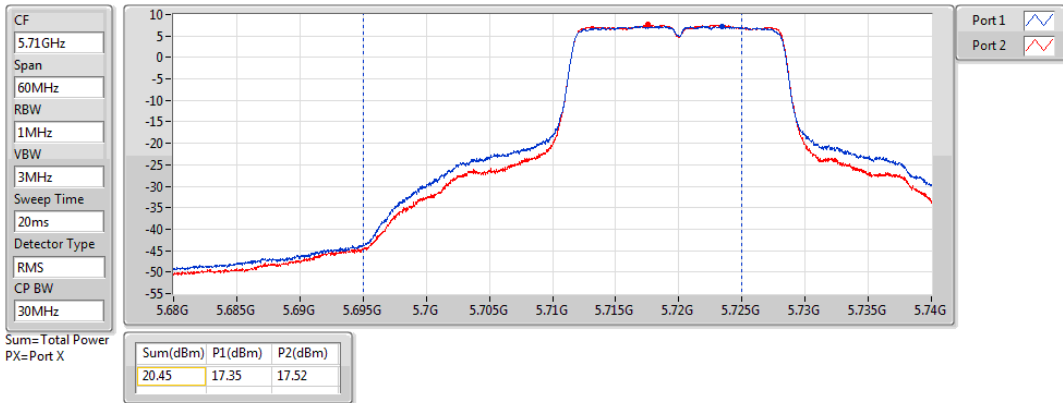
DG = Directional Gain; Port X = Port X output power

802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz

16/01/2019

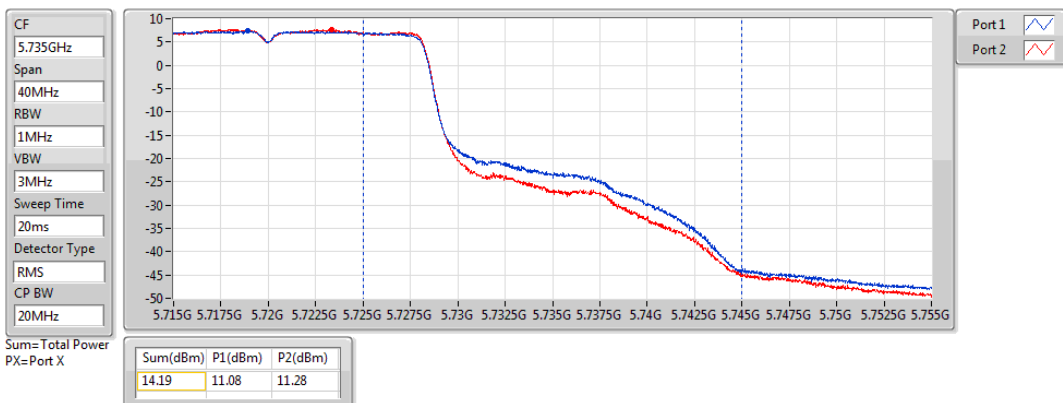


802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz

16/01/2019

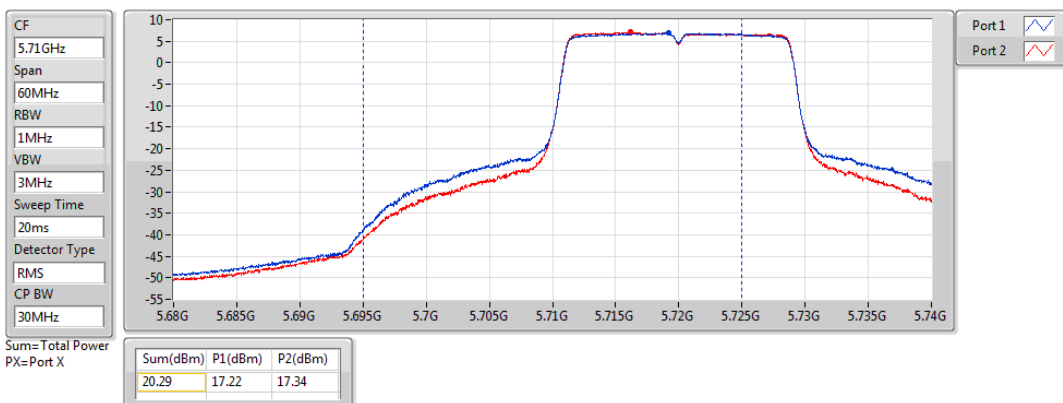


802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz

16/01/2019

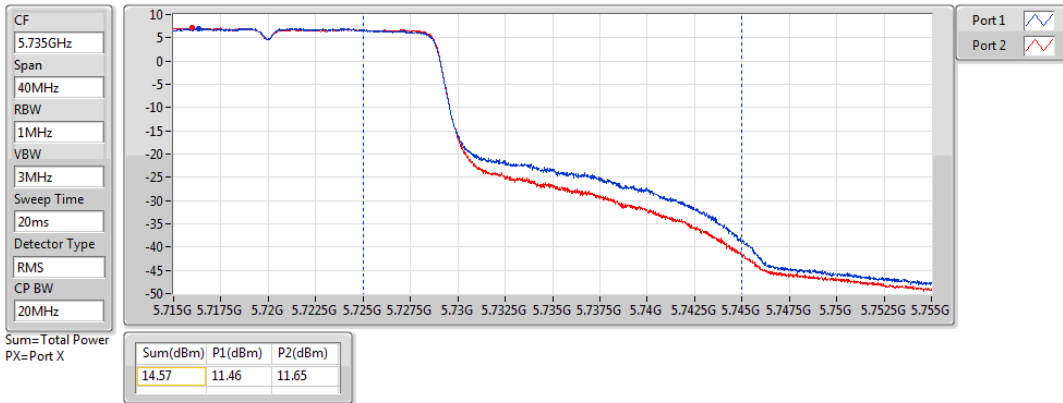


802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz

16/01/2019

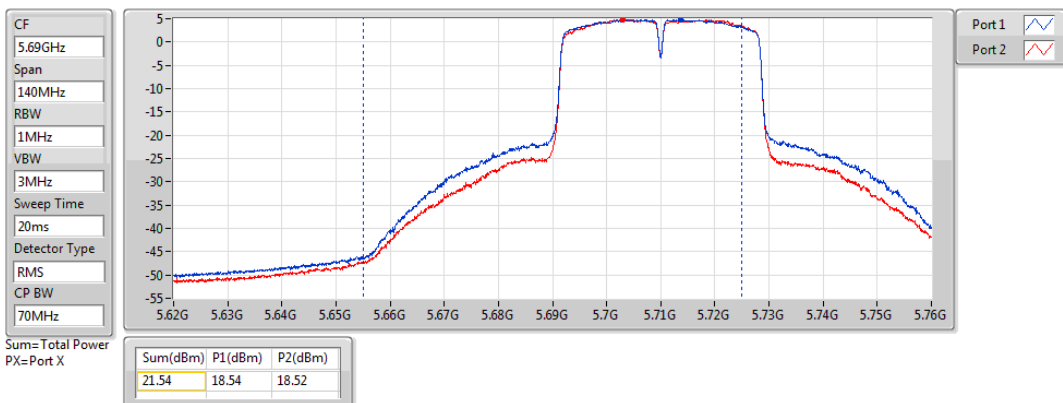


802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz

16/01/2019

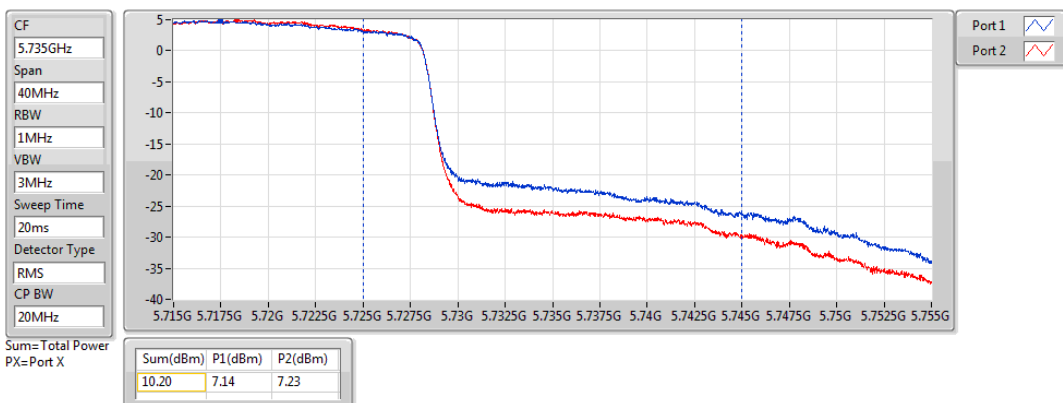


802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz

16/01/2019

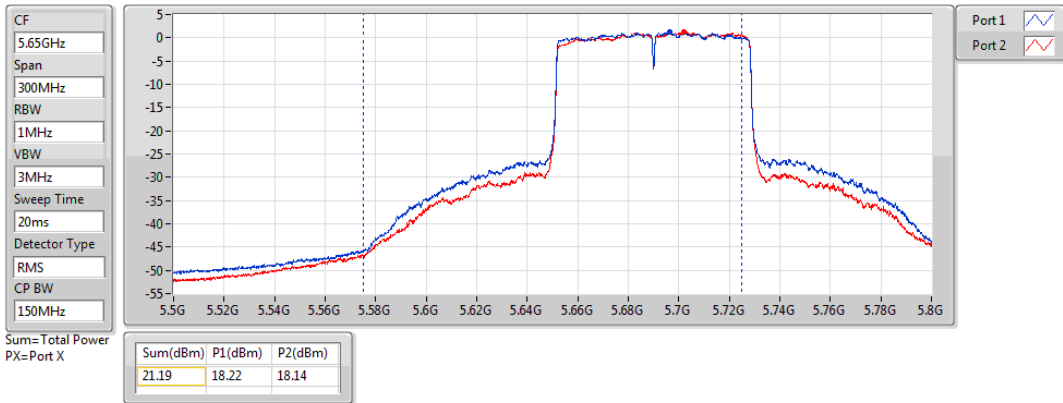


802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz

16/01/2019

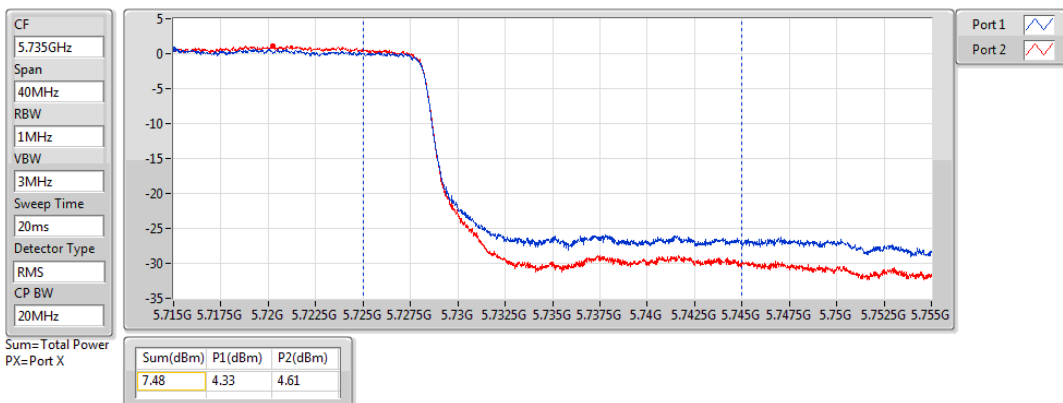


802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz

16/01/2019





PSD Result

Appendix C

Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_2TX	10.96
802.11ac VHT20_Nss1,(MCS0)_2TX	10.77
802.11ac VHT40_Nss1,(MCS0)_2TX	8.31
802.11ac VHT80_Nss1,(MCS0)_2TX	0.97
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_2TX	10.94
802.11ac VHT20_Nss1,(MCS0)_2TX	10.77
802.11ac VHT40_Nss1,(MCS0)_2TX	7.75
802.11ac VHT80_Nss1,(MCS0)_2TX	4.59
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	6.97
802.11ac VHT20_Nss1,(MCS0)_2TX	6.75
802.11ac VHT40_Nss1,(MCS0)_2TX	3.29
802.11ac VHT80_Nss1,(MCS0)_2TX	0.35

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



PSD Result

Appendix C

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	6.01	8.14	8.04	10.96	10.99
5300MHz	Pass	6.01	7.96	7.95	10.88	10.99
5320MHz	Pass	6.01	7.99	7.94	10.86	10.99
5500MHz	Pass	6.01	7.95	8.12	10.94	10.99
5580MHz	Pass	6.01	7.83	8.06	10.70	10.99
5700MHz	Pass	6.01	7.82	7.87	10.77	10.99
5720MHz Straddle 5.47-5.725GHz	Pass	6.01	7.14	7.52	10.31	10.99
5720MHz Straddle 5.725-5.85GHz	Pass	6.01	3.92	4.19	6.97	29.99
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	6.01	7.88	7.95	10.77	10.99
5300MHz	Pass	6.01	7.73	7.86	10.69	10.99
5320MHz	Pass	6.01	7.78	7.73	10.73	10.99
5500MHz	Pass	6.01	7.96	7.80	10.77	10.99
5580MHz	Pass	6.01	7.75	7.51	10.44	10.99
5700MHz	Pass	6.01	7.43	7.48	10.40	10.99
5720MHz Straddle 5.47-5.725GHz	Pass	6.01	6.80	6.94	9.82	10.99
5720MHz Straddle 5.725-5.85GHz	Pass	6.01	3.74	3.80	6.75	29.99
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	6.01	5.50	5.38	8.31	10.99
5310MHz	Pass	6.01	3.46	3.42	6.39	10.99
5510MHz	Pass	6.01	3.51	3.50	6.38	10.99
5550MHz	Pass	6.01	4.99	4.95	7.75	10.99
5670MHz	Pass	6.01	4.83	4.72	7.71	10.99
5710MHz Straddle 5.47-5.725GHz	Pass	6.01	4.68	4.85	7.67	10.99
5710MHz Straddle 5.725-5.85GHz	Pass	6.01	0.15	0.48	3.29	29.99
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	6.01	-1.90	-2.07	0.97	10.99
5530MHz	Pass	6.01	-1.02	-0.82	1.83	10.99
5610MHz	Pass	6.01	1.66	1.77	4.59	10.99
5690MHz Straddle 5.47-5.725GHz	Pass	6.01	0.96	1.37	4.15	10.99
5690MHz Straddle 5.725-5.85GHz	Pass	6.01	-2.79	-2.42	0.35	29.99

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

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

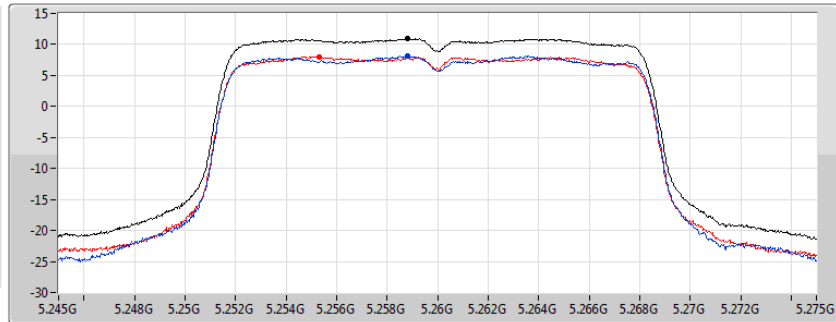
802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz

03/01/2019

CF
5.26GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.96	10.96	8.14	8.04

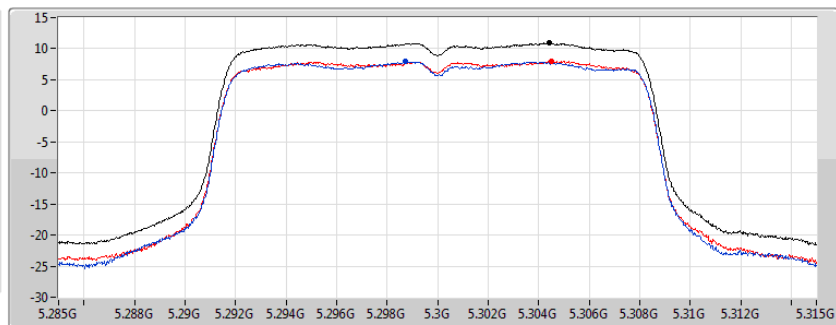
802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

03/01/2019

CF
5.3GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.88	10.88	7.96	7.95

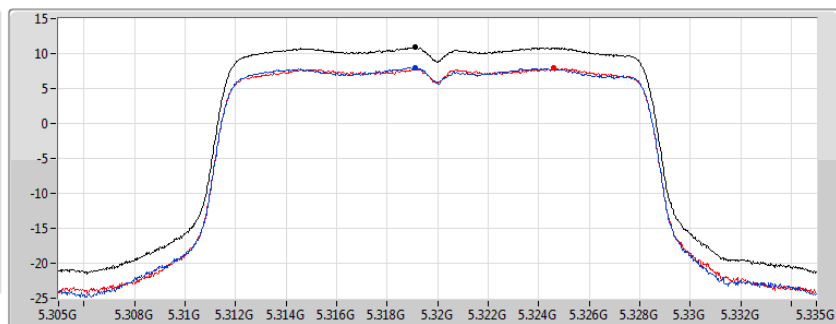
802.11a_Nss1,(6Mbps)_2TX

PSD

5320MHz

03/01/2019

CF
5.32GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

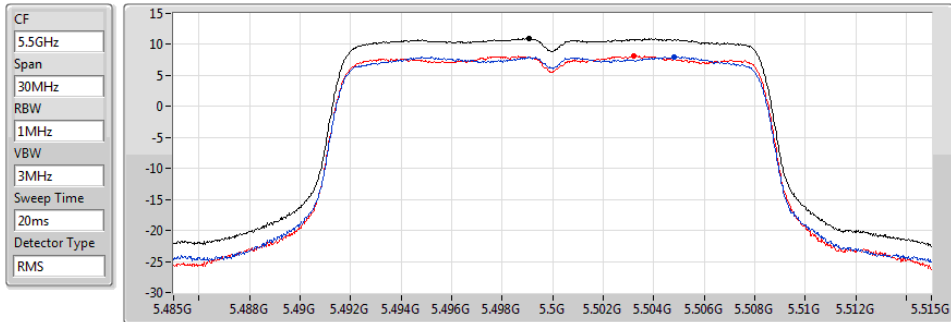
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.86	10.86	7.99	7.94

802.11a_Nss1,(6Mbps)_2TX

PSD

5500MHz

03/01/2019



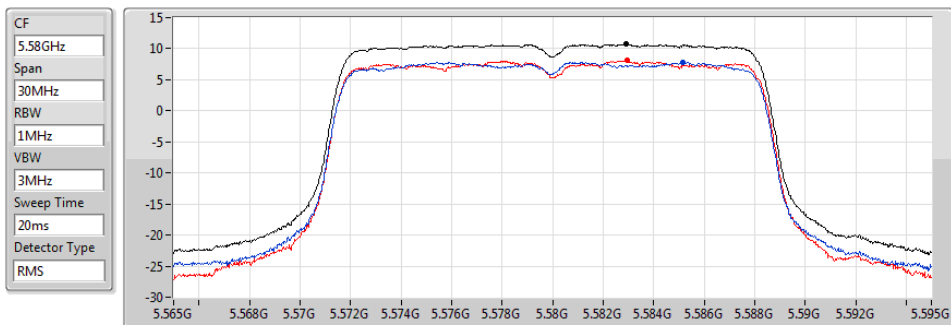
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.94	10.94	7.95	8.12

802.11a_Nss1,(6Mbps)_2TX

PSD

5580MHz

03/01/2019



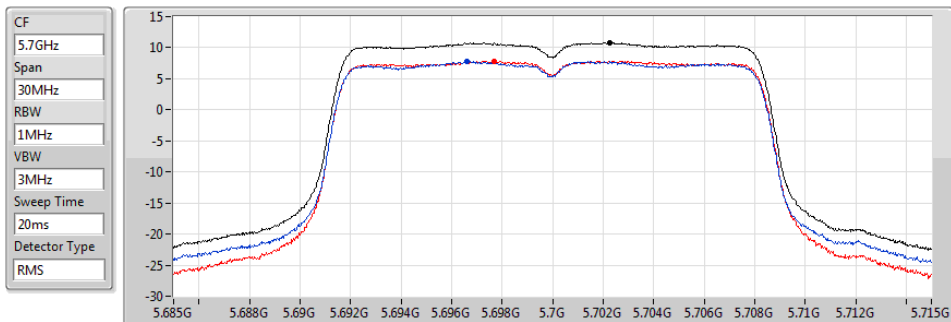
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.70	10.70	7.83	8.06

802.11a_Nss1,(6Mbps)_2TX

PSD

5700MHz

03/01/2019

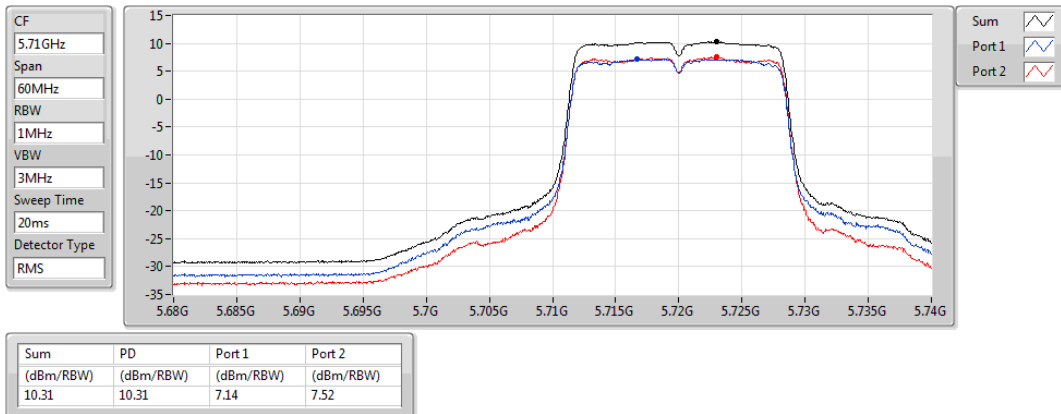


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.77	10.77	7.82	7.87

802.11a_Nss1,(6Mbps)_2TX 5720MHz Straddle 5.47-5.725GHz

PSD

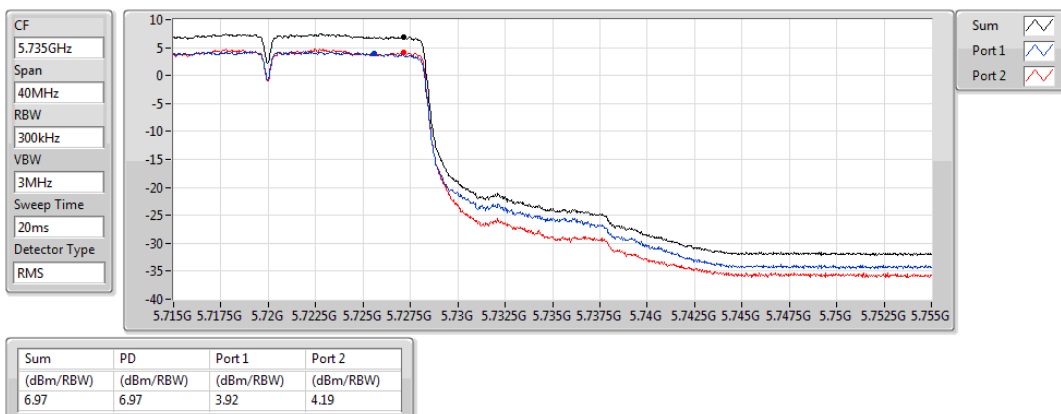
16/01/2019



802.11a_Nss1,(6Mbps)_2TX 5720MHz Straddle 5.725-5.85GHz

PSD

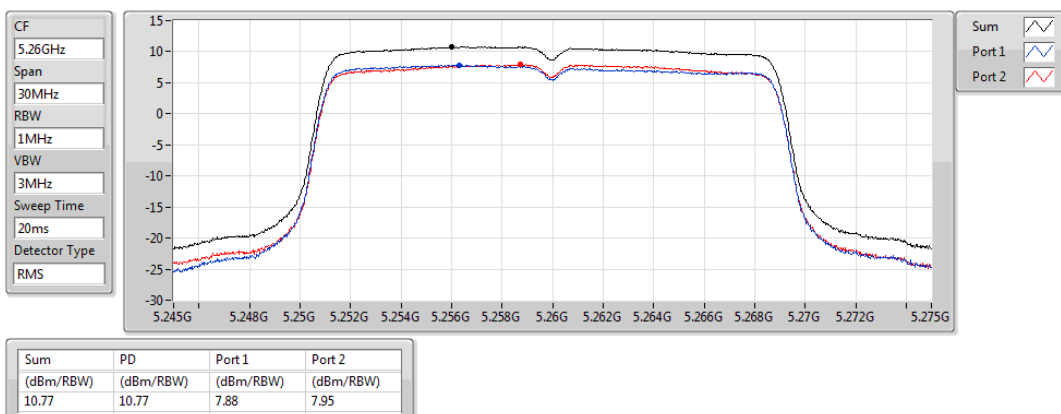
16/01/2019



802.11ac VHT20_Nss1,(MCS0)_2TX 5260MHz

PSD

03/01/2019

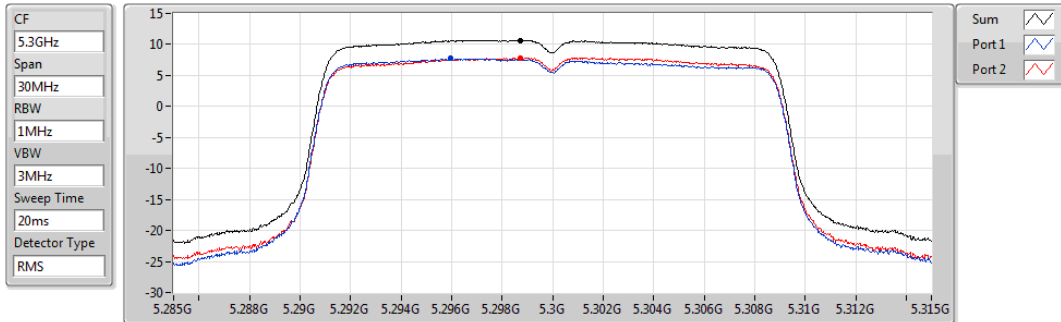


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5300MHz

03/01/2019



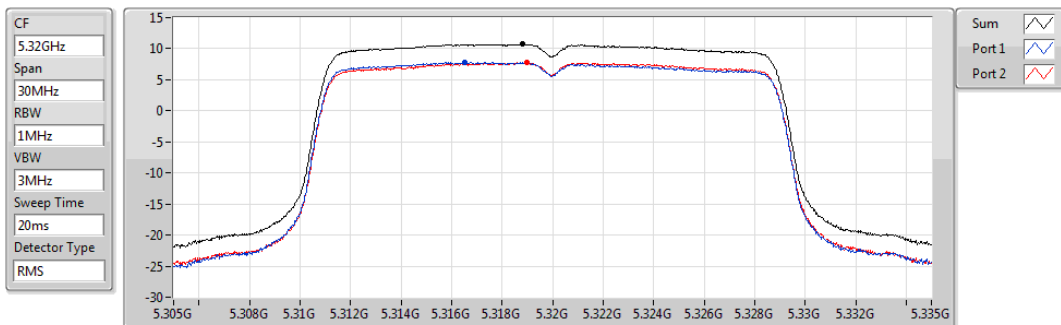
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.69	10.69	7.73	7.86

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5320MHz

03/01/2019



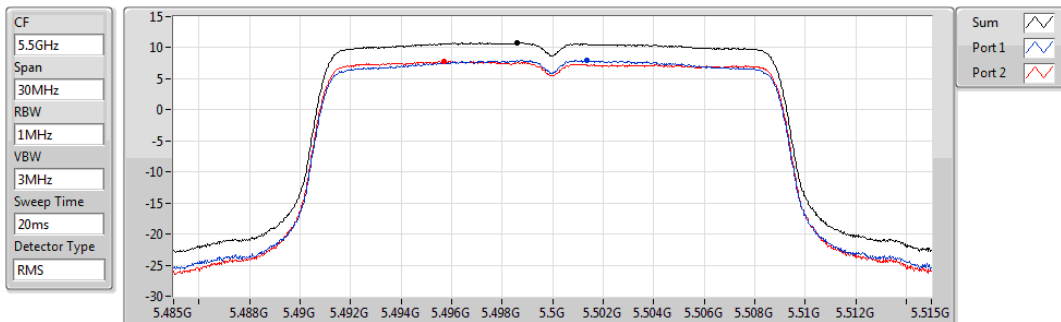
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.73	10.73	7.78	7.73

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5500MHz

03/01/2019



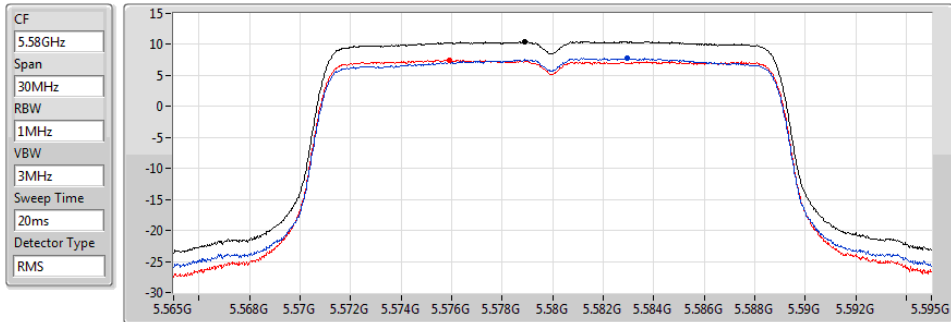
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.77	10.77	7.96	7.80

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5580MHz

03/01/2019



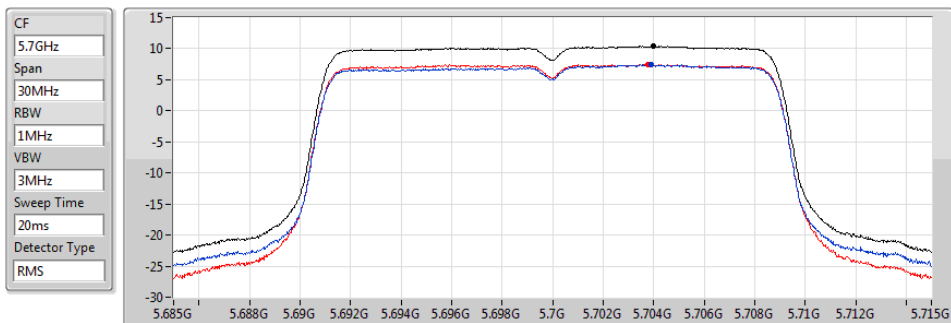
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.44	10.44	7.75	7.51

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5700MHz

03/01/2019



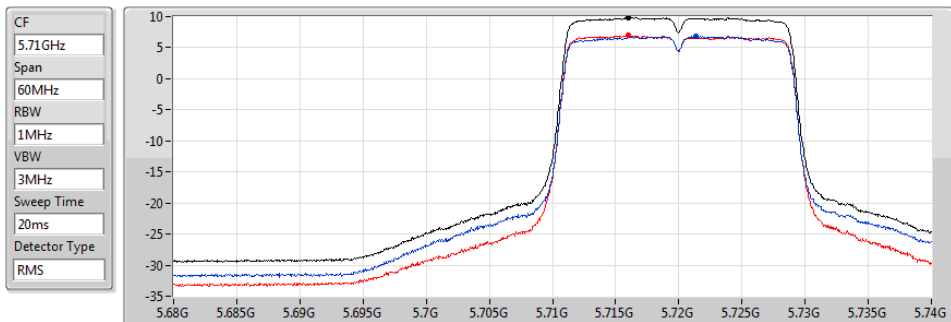
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.40	10.40	7.43	7.48

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

16/01/2019



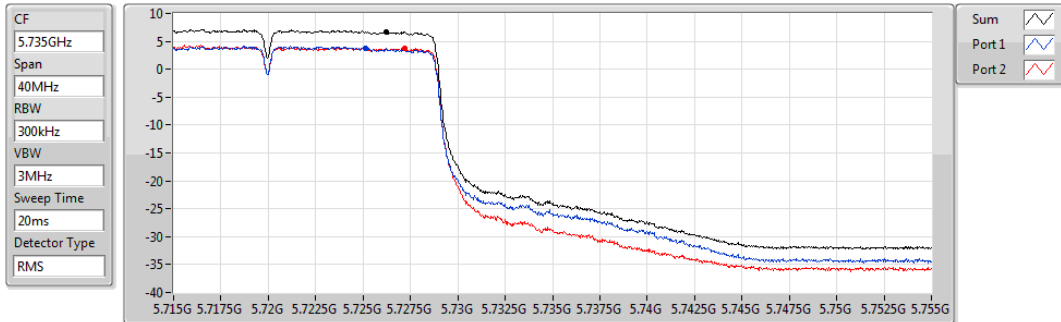
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.82	9.82	6.80	6.94

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

16/01/2019



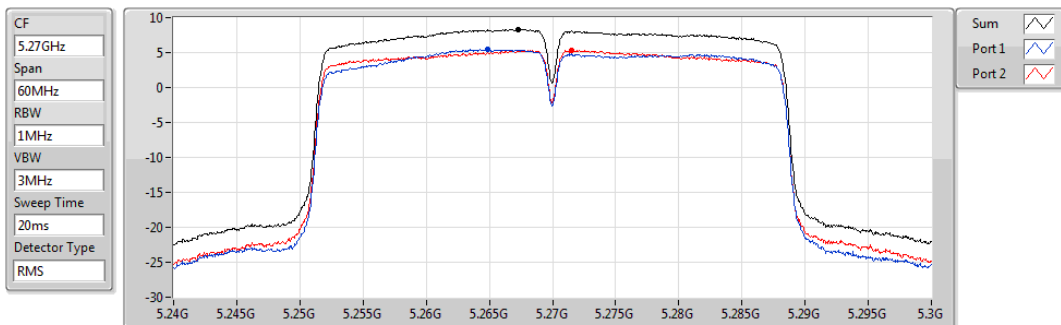
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.75	6.75	3.74	3.80

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5270MHz

03/01/2019



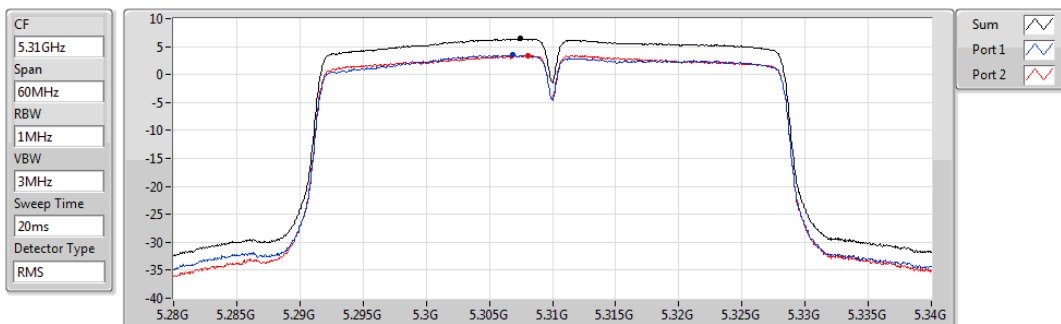
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.31	8.31	5.50	5.38

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5310MHz

03/01/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.39	6.39	3.46	3.42

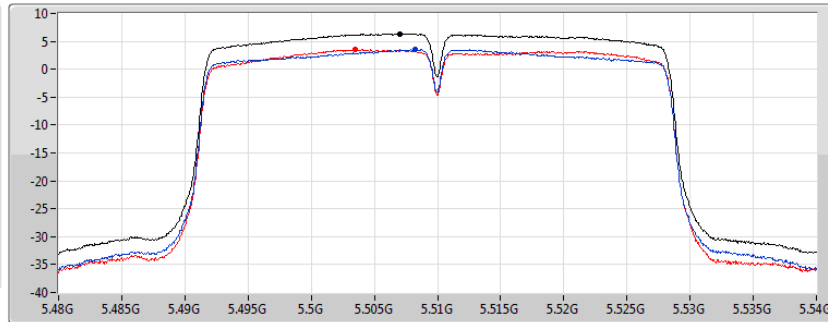
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5510MHz

03/01/2019

CF
5.51GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.38	6.38	3.51	3.50

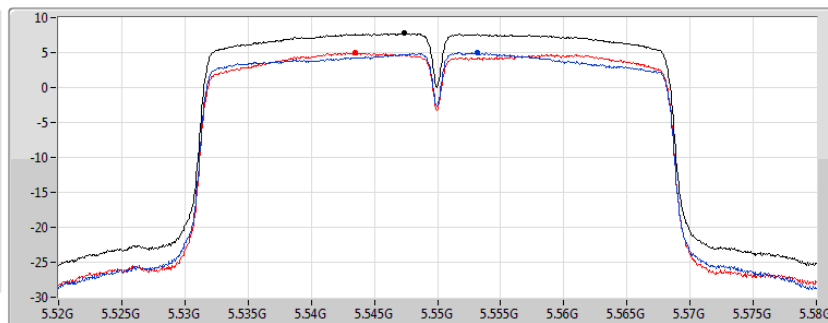
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5550MHz

03/01/2019

CF
5.55GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.75	7.75	4.99	4.95

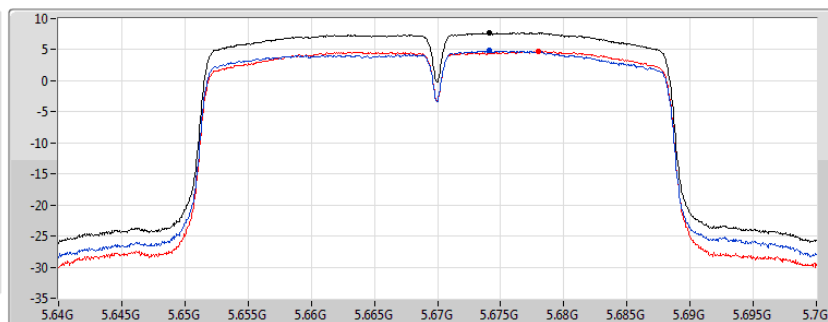
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5670MHz

03/01/2019

CF
5.67GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

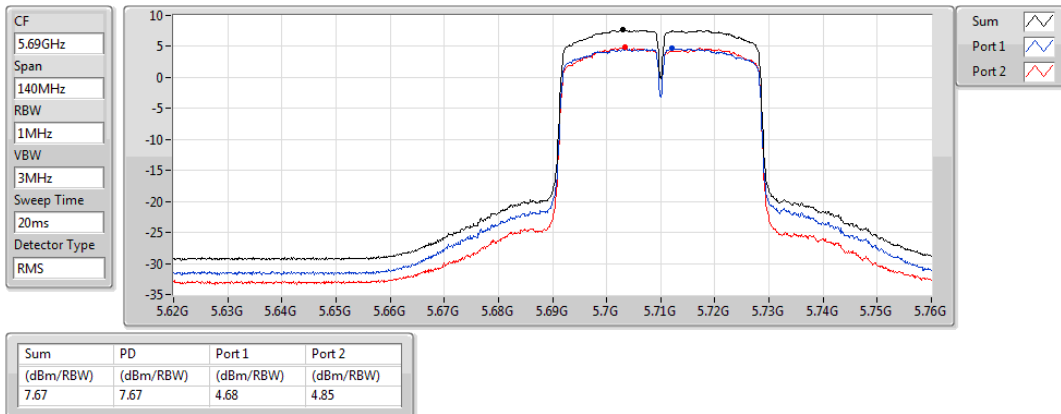
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.71	7.71	4.83	4.72

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.47-5.725GHz

16/01/2019

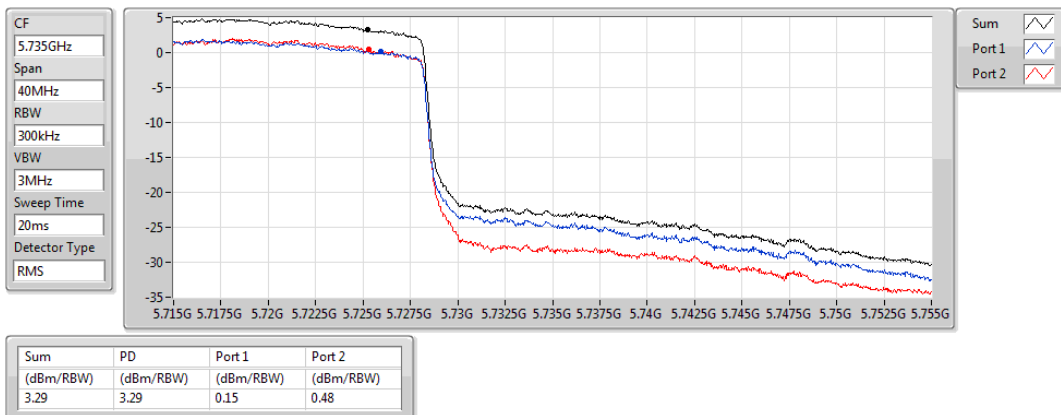


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.725-5.85GHz

16/01/2019

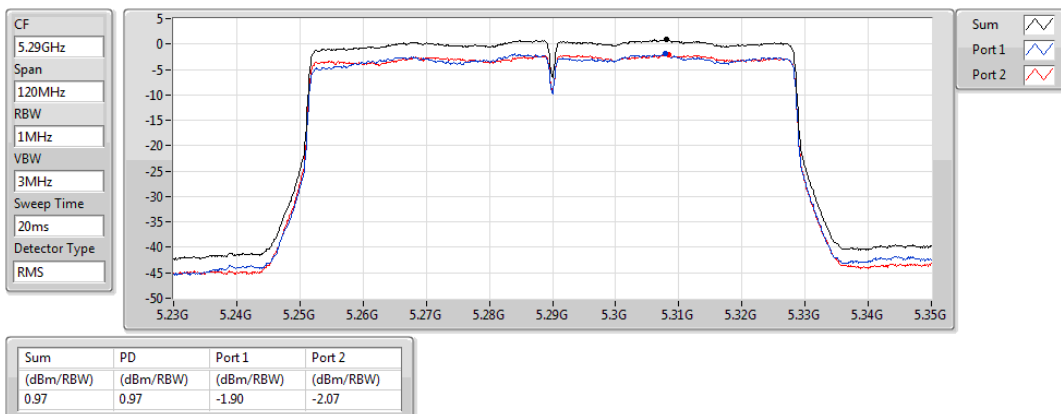


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5290MHz

03/01/2019

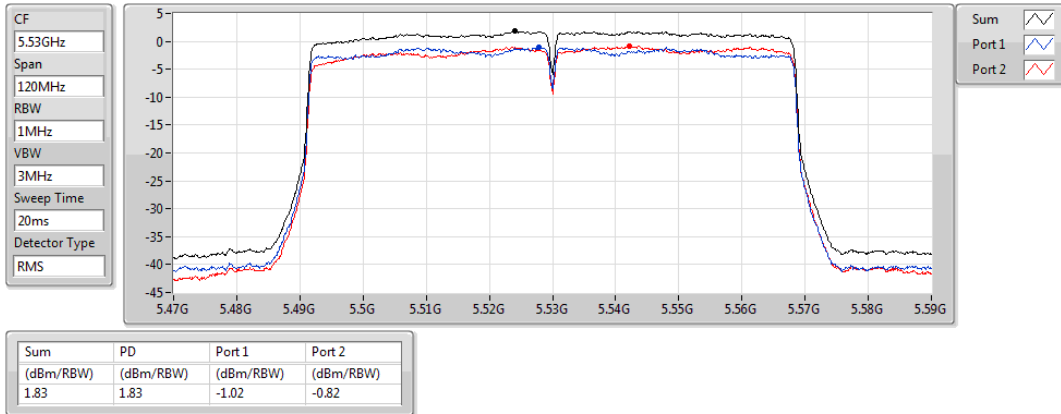


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5530MHz

03/01/2019

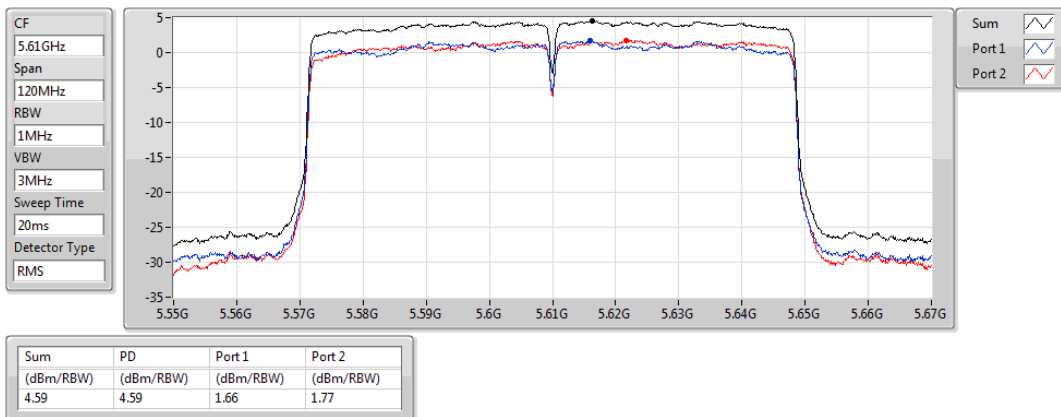


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5610MHz

03/01/2019

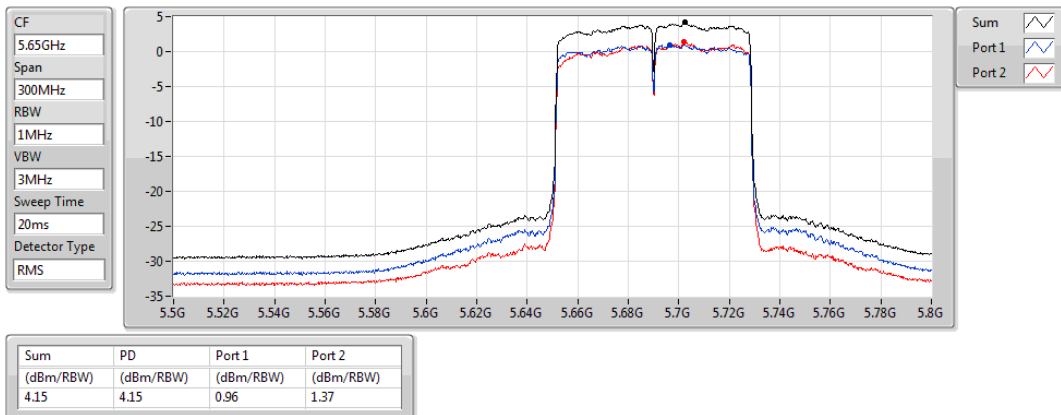


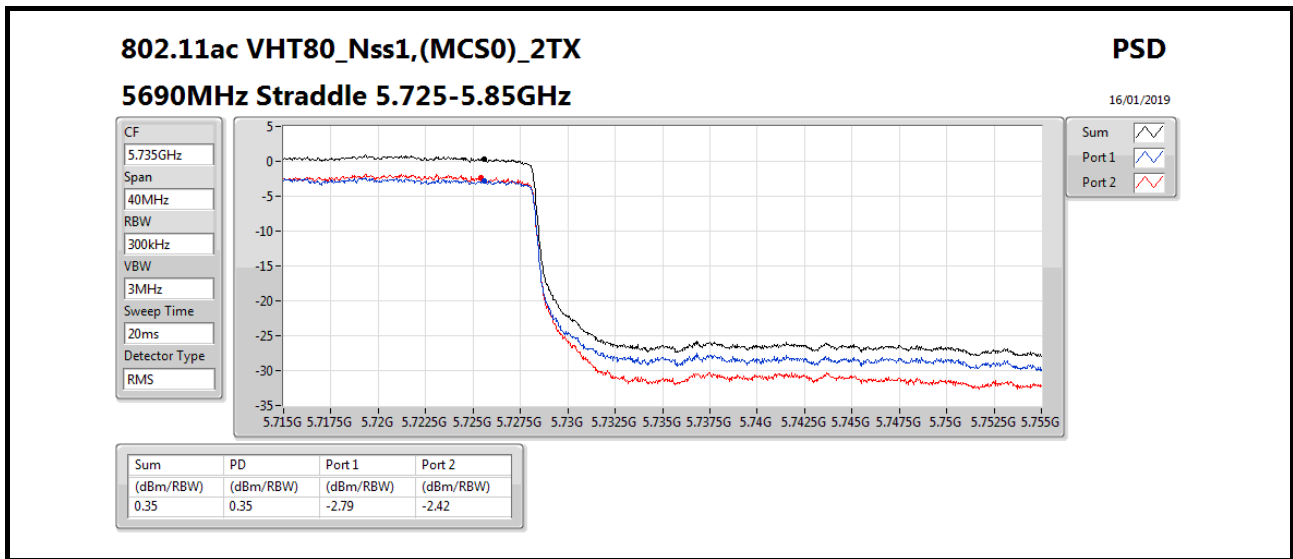
802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.47-5.725GHz

16/01/2019







RSE TX above 1GHz Result

Appendix D

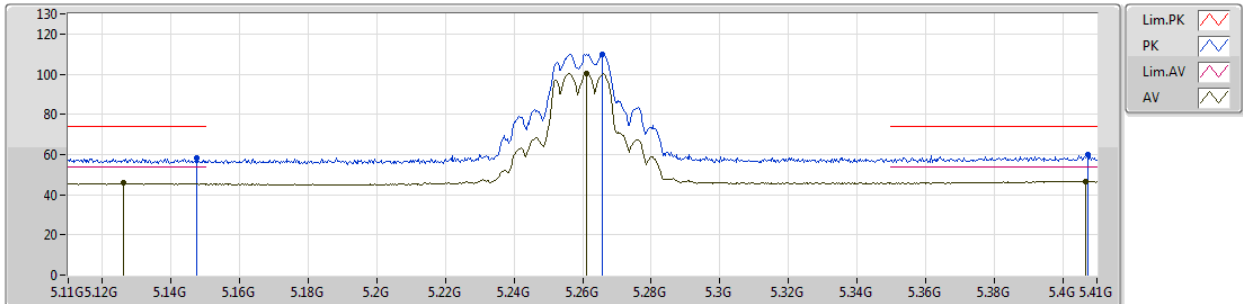
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	5.35G	53.82	54.00	-0.18	8.56	3	Horizontal	68	2.99	-

802.11a_Nss1,(6Mbps)_2TX

28/12/2018

5260MHz_TX



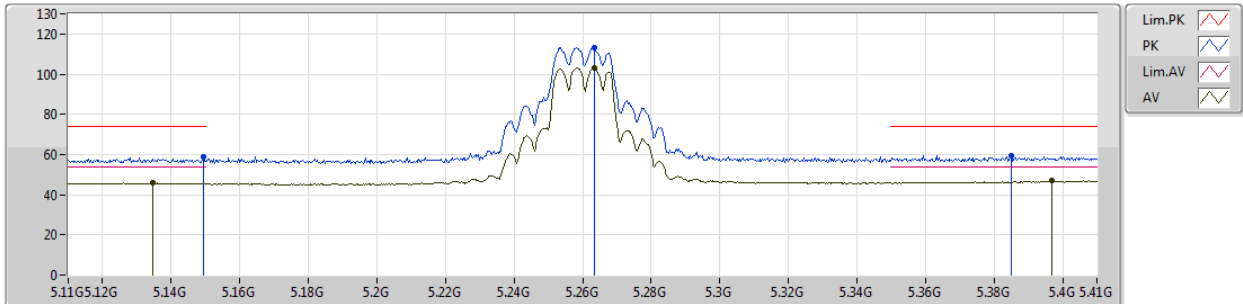
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1475G	58.33	74.00	-15.67	5.85	3	Vertical	189	2.67	-
AV	5.1262G	45.75	54.00	-8.25	5.79	3	Vertical	189	2.67	-
PK	5.2657G	110.03	Inf	-Inf	6.16	3	Vertical	189	2.67	-
AV	5.2612G	100.46	Inf	-Inf	6.15	3	Vertical	189	2.67	-
PK	5.4073G	59.87	74.00	-14.13	6.53	3	Vertical	189	2.67	-
AV	5.4067G	46.78	54.00	-7.22	6.53	3	Vertical	189	2.67	-

802.11a_Nss1,(6Mbps)_2TX

28/12/2018

5260MHz_TX



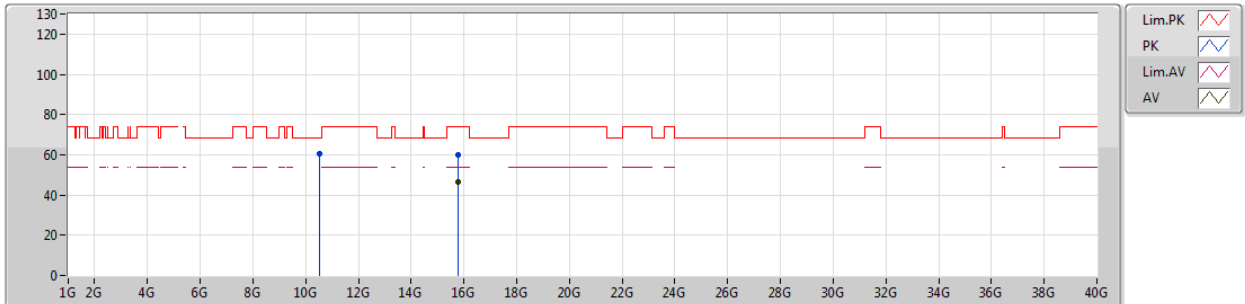
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1493G	58.63	74.00	-15.37	5.85	3	Horizontal	71	2.80	-
AV	5.1346G	45.73	54.00	-8.27	5.81	3	Horizontal	71	2.80	-
PK	5.2633G	113.29	Inf	-Inf	6.15	3	Horizontal	71	2.80	-
AV	5.2633G	103.33	Inf	-Inf	6.15	3	Horizontal	71	2.80	-
PK	5.3851G	59.20	74.00	-14.80	6.48	3	Horizontal	71	2.80	-
AV	5.3968G	46.84	54.00	-7.16	6.51	3	Horizontal	71	2.80	-

802.11a_Nss1,(6Mbps)_2TX

28/12/2018

5260MHz_TX



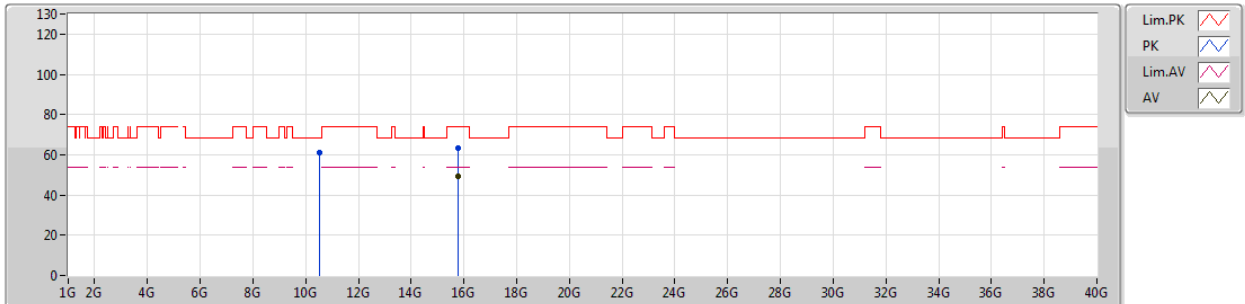
EUT_Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	10.5221G	60.41	68.20	-7.79	13.20	3	Vertical	320	2.66	-						
PK	15.7758G	59.92	74.00	-14.08	14.72	3	Vertical	182	1.58	-						
AV	15.785G	46.43	54.00	-7.57	14.69	3	Vertical	182	1.58	-						

802.11a_Nss1,(6Mbps)_2TX

28/12/2018

5260MHz_TX



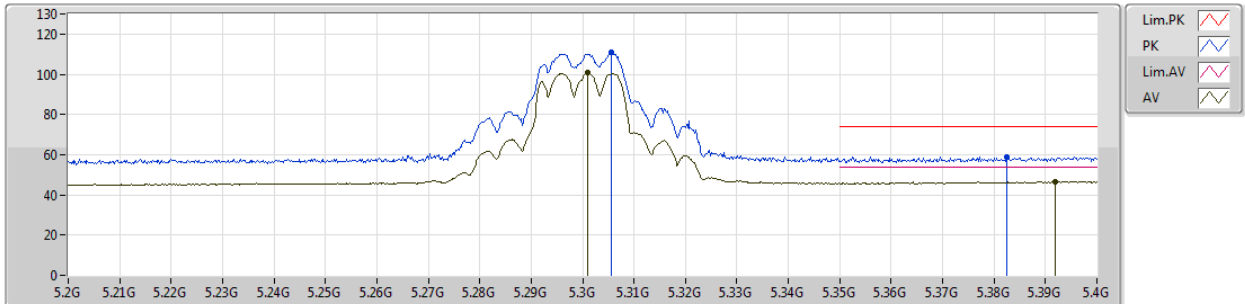
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	10.5143G	61.22	68.20	-6.98	13.18	3	Horizontal	298	2.27	-
PK	15.78635G	63.44	74.00	-10.56	14.68	3	Horizontal	307	1.63	-
AV	15.78125G	49.20	54.00	-4.80	14.70	3	Horizontal	307	1.63	-

802.11a_Nss1.(6Mbps)_2TX

28/12/2018

5300MHz_TX



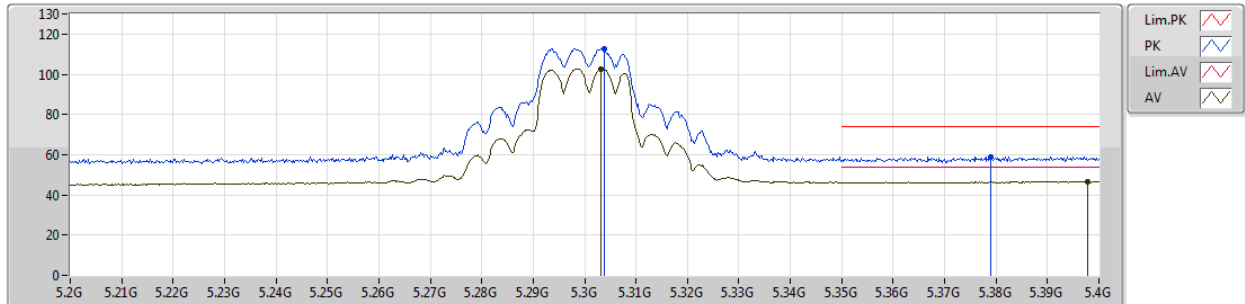
EUT_Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3056G	110.80	Inf	-Inf	6.28	3	Vertical	187	2.77	-
AV	5.301G	100.64	Inf	-Inf	6.26	3	Vertical	187	2.77	-
PK	5.3824G	58.81	74.00	-15.19	6.47	3	Vertical	187	2.77	-
AV	5.392G	46.58	54.00	-7.42	6.50	3	Vertical	187	2.77	-

802.11a_Nss1,(6Mbps)_2TX

28/12/2018

5300MHz_TX



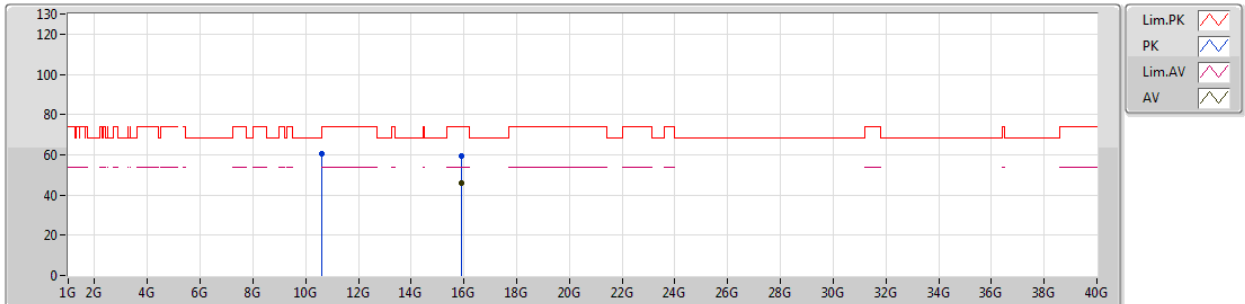
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3038G	112.85	Inf	-Inf	6.27	3	Horizontal	69	2.79	-
AV	5.3032G	102.77	Inf	-Inf	6.27	3	Horizontal	69	2.79	-
PK	5.379G	59.08	74.00	-14.92	6.46	3	Horizontal	69	2.79	-
AV	5.3978G	46.72	54.00	-7.28	6.52	3	Horizontal	69	2.79	-

802.11a_Nss1,(6Mbps)_2TX

28/12/2018

5300MHz_TX



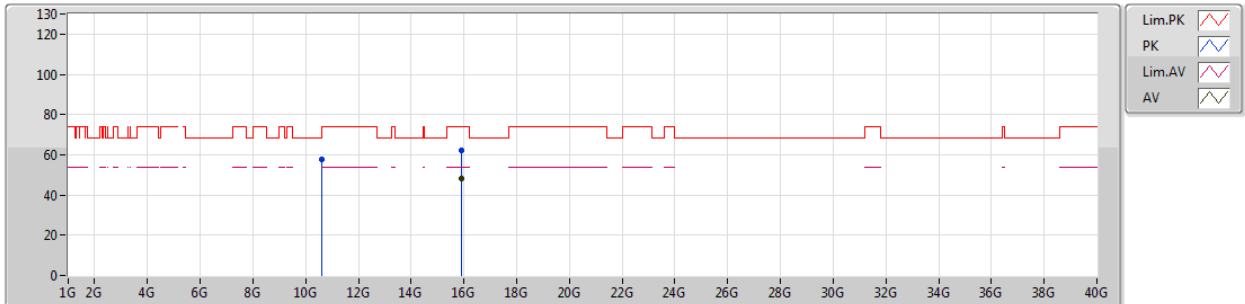
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	10.59775G	60.40	68.20	-7.80	13.30	3	Vertical	322	2.57	-						
PK	15.89655G	59.61	74.00	-14.39	14.29	3	Vertical	360	2.65	-						
AV	15.9011G	45.89	54.00	-8.11	14.28	3	Vertical	360	2.65	-						

802.11a_Nss1,(6Mbps)_2TX

28/12/2018

5300MHz_TX



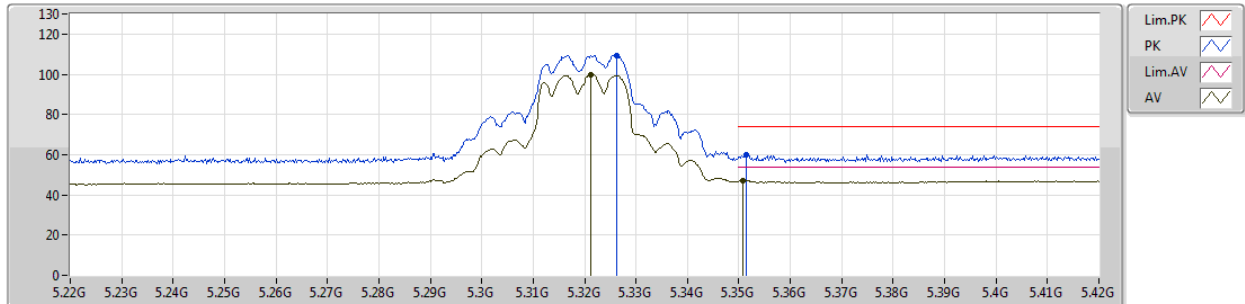
EUT_Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	10.5976G	57.91	68.20	-10.29	13.30	3	Horizontal	283	1.50	-						
PK	15.906G	62.34	74.00	-11.66	14.25	3	Horizontal	304	1.97	-						
AV	15.9012G	48.08	54.00	-5.92	14.28	3	Horizontal	304	1.97	-						

802.11a_Nss1.(6Mbps)_2TX

28/12/2018

5320MHz_TX



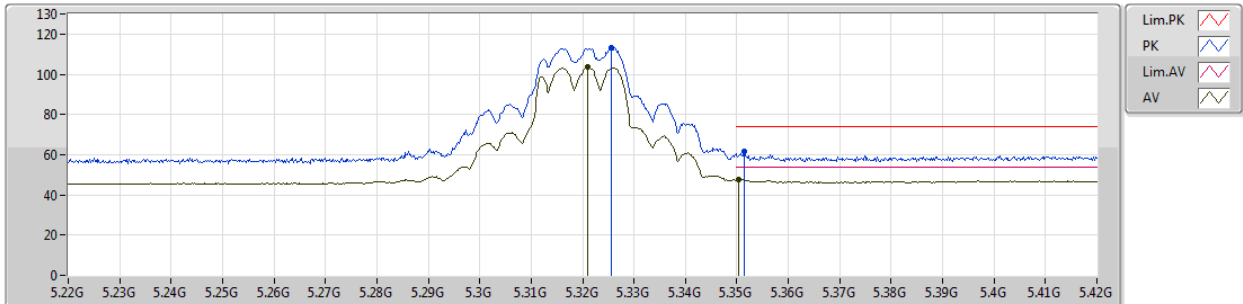
EUT_Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3262G	109.52	Inf	-Inf	6.33	3	Vertical	183	1.28	-
AV	5.3212G	99.89	Inf	-Inf	6.32	3	Vertical	183	1.28	-
PK	5.3514G	59.93	74.00	-14.07	6.39	3	Vertical	183	1.28	-
AV	5.3508G	47.16	54.00	-6.84	6.39	3	Vertical	183	1.28	-

802.11a_Nss1.(6Mbps)_2TX

28/12/2018

5320MHz_TX



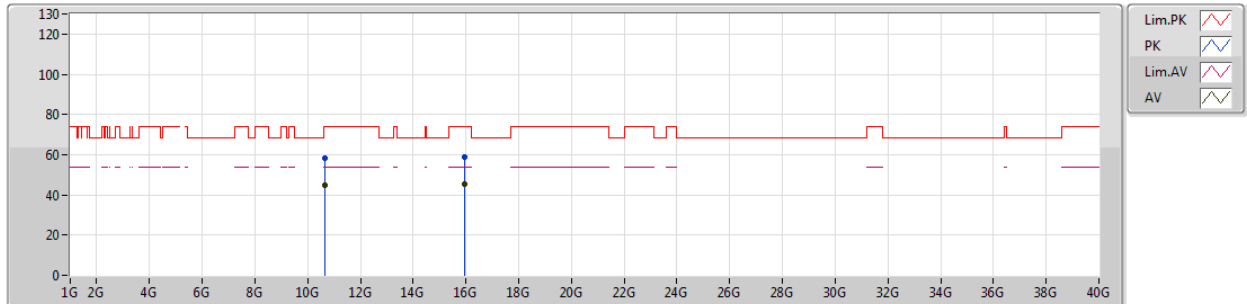
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Setting 20
03-P-2-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3256G	113.34	Inf	-Inf	6.33	3	Horizontal	290	2.70	-
AV	5.321G	103.47	Inf	-Inf	6.32	3	Horizontal	290	2.70	-
PK	5.3514G	61.57	74.00	-12.43	6.39	3	Horizontal	290	2.70	-
AV	5.3504G	47.88	54.00	-6.12	6.39	3	Horizontal	290	2.70	-

802.11a_Nss1,(6Mbps)_2TX

28/12/2018

5320MHz_TX



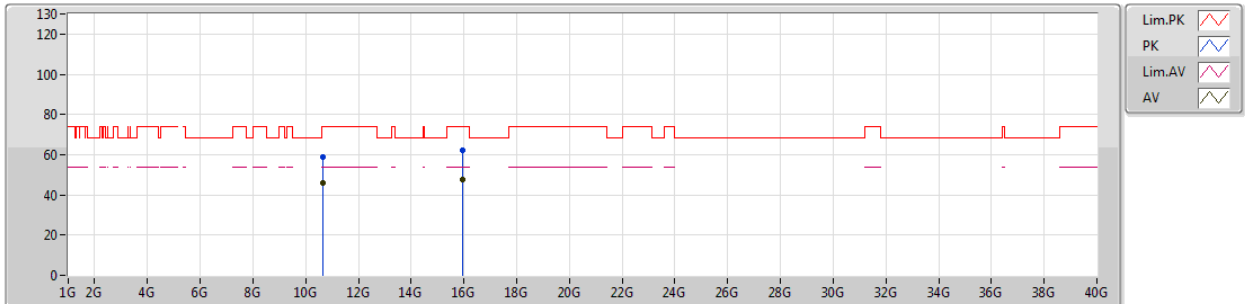
EUT_Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments							
PK	10.6416G	58.41	74.00	-15.59	13.36	3	Vertical	25	2.33	-							
AV	10.6417G	45.05	54.00	-8.95	13.36	3	Vertical	25	2.33	-							
PK	15.9367G	58.61	74.00	-15.39	14.15	3	Vertical	357	1.50	-							
AV	15.96175G	45.31	54.00	-8.69	14.06	3	Vertical	357	1.50	-							

802.11a_Nss1.(6Mbps)_2TX

28/12/2018

5320MHz_TX



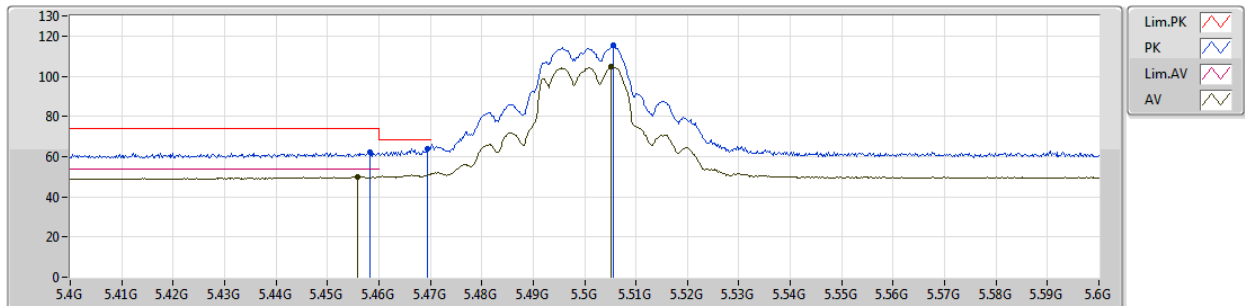
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Setting 20
03-P-2
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	10.6422G	58.99	74.00	-15.01	13.36	3	Horizontal	300	1.07	-						
AV	10.6422G	45.90	54.00	-8.10	13.36	3	Horizontal	300	1.07	-						
PK	15.96135G	62.00	74.00	-12.00	14.06	3	Horizontal	309	2.01	-						
AV	15.9613G	47.77	54.00	-6.23	14.06	3	Horizontal	309	2.01	-						

802.11a_Nss1,(6Mbps)_2TX

02/01/2019

5500MHz_TX



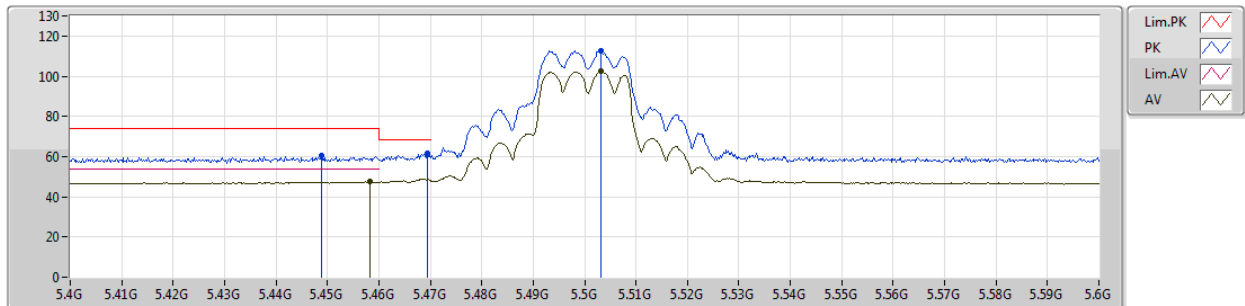
EUT_Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
PK	5.4582G	62.01	74.00	-11.99	9.01	3	Vertical	34	2.95	-								
AV	5.4558G	49.92	54.00	-4.08	9.00	3	Vertical	34	2.95	-								
PK	5.4694G	64.06	68.20	-4.14	9.06	3	Vertical	34	2.95	-								
PK	5.5056G	115.37	Inf	-Inf	9.18	3	Vertical	34	2.95	-								
AV	5.5052G	104.60	Inf	-Inf	9.18	3	Vertical	34	2.95	-								

802.11a_Nss1,(6Mbps)_2TX

28/12/2018

5500MHz_TX



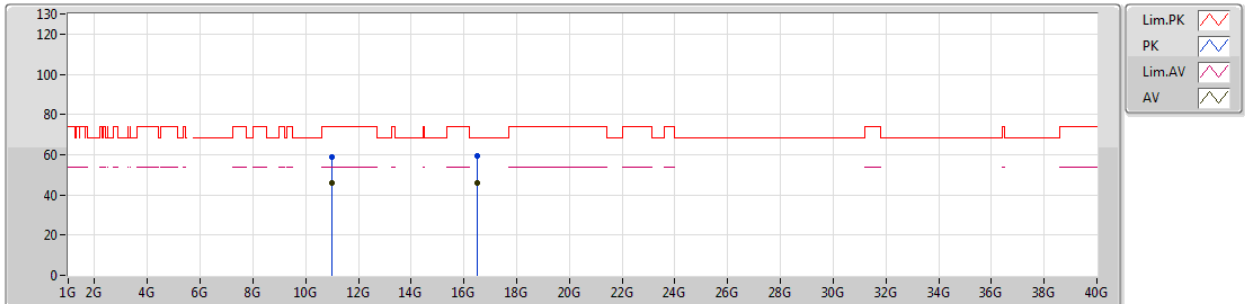
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4488G	60.31	74.00	-13.69	6.61	3	Horizontal	67	2.74	-
AV	5.4582G	47.55	54.00	-6.45	6.61	3	Horizontal	67	2.74	-
PK	5.4694G	61.39	68.20	-6.81	6.63	3	Horizontal	67	2.74	-
PK	5.5032G	112.49	Inf	-Inf	6.69	3	Horizontal	67	2.74	-
AV	5.5032G	102.41	Inf	-Inf	6.69	3	Horizontal	67	2.74	-

802.11a_Nss1.(6Mbps)_2TX

28/12/2018

5500MHz_TX



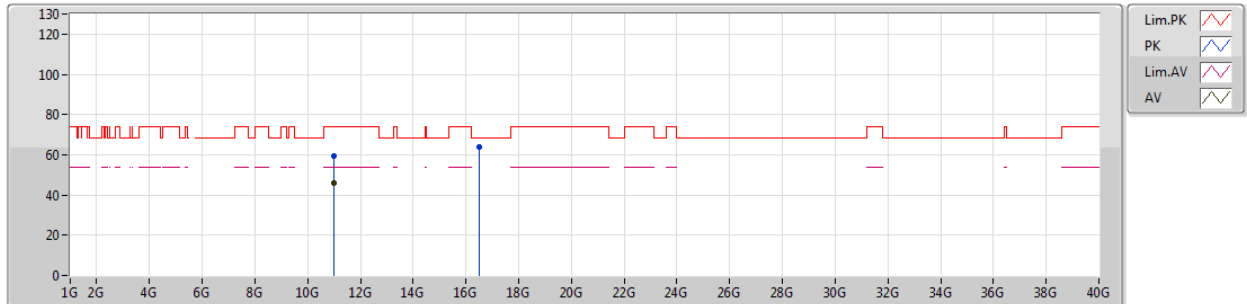
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	11.00015G	58.74	74.00	-15.26	13.84	3	Vertical	342	2.15	-						
AV	11.00015G	46.01	54.00	-7.99	13.84	3	Vertical	342	2.15	-						
PK	16.4862G	59.34	68.20	-8.86	15.45	3	Vertical	180	1.50	-						
AV	16.50485G	46.21	Inf	-Inf	15.52	3	Vertical	180	1.50	-						

802.11a_Nss1.(6Mbps)_2TX

28/12/2018

5500MHz_TX



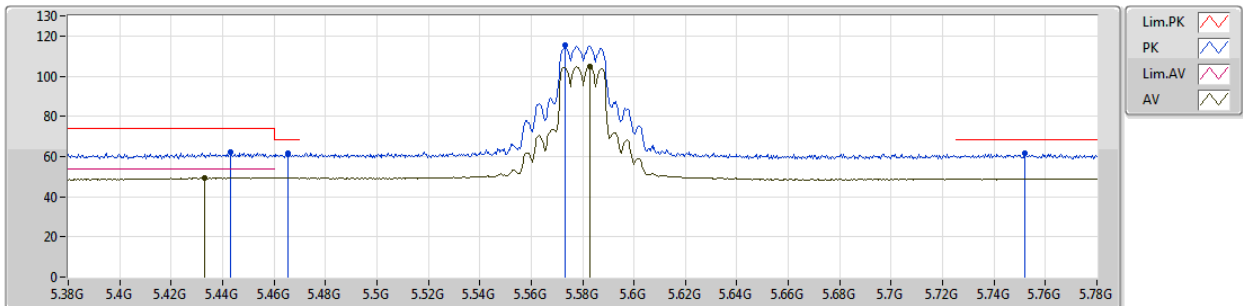
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Setting 20
03-P-2
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	11.0017G	59.57	74.00	-14.43	13.84	3	Horizontal	301	1.59	-						
AV	11.00175G	45.90	54.00	-8.10	13.84	3	Horizontal	301	1.59	-						
PK	16.506G	63.61	68.20	-4.59	15.52	3	Horizontal	302	1.60	-						

802.11a_Nss1,(6Mbps)_2TX

02/01/2019

5580MHz_TX



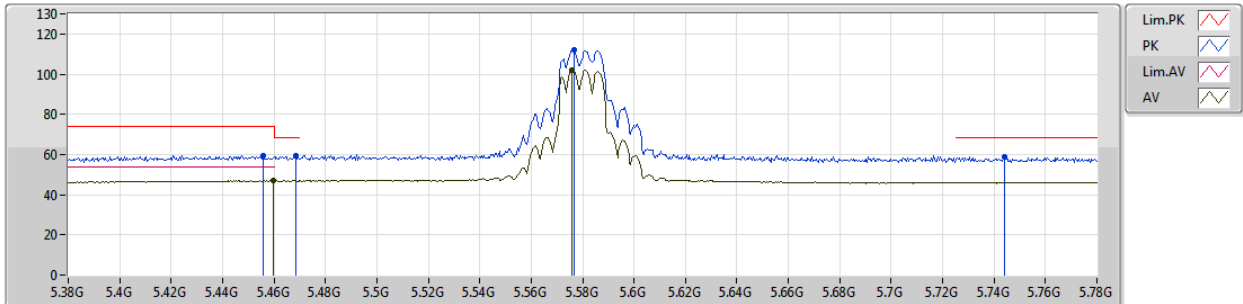
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4432G	61.93	74.00	-12.07	8.95	3	Vertical	9	2.89	-
AV	5.4332G	49.42	54.00	-4.58	8.91	3	Vertical	9	2.89	-
PK	5.4656G	61.56	68.20	-6.64	9.04	3	Vertical	9	2.89	-
PK	5.5732G	115.19	Inf	-Inf	9.28	3	Vertical	9	2.89	-
AV	5.5828G	104.81	Inf	-Inf	9.30	3	Vertical	9	2.89	-
PK	5.752G	61.46	68.20	-6.74	9.36	3	Vertical	9	2.89	-

802.11a_Nss1,(6Mbps)_2TX

02/01/2019

5580MHz_TX



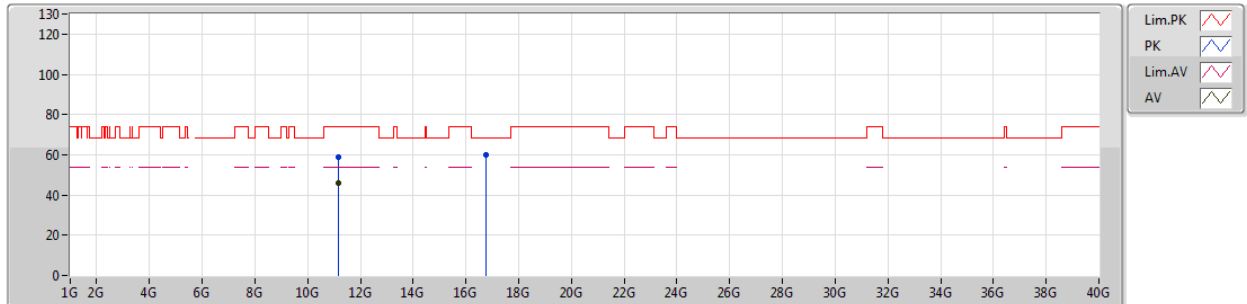
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4556G	59.60	74.00	-14.40	6.61	3	Horizontal	69	1.00	-
AV	5.4596G	47.00	54.00	-7.00	6.62	3	Horizontal	69	1.00	-
PK	5.4684G	59.32	68.20	-8.88	6.63	3	Horizontal	69	1.00	-
PK	5.5768G	112.10	Inf	-Inf	6.69	3	Horizontal	69	1.00	-
AV	5.576G	102.26	Inf	-Inf	6.69	3	Horizontal	69	1.00	-
PK	5.744G	58.63	68.20	-9.57	6.86	3	Horizontal	9	2.89	-

802.11a_Nss1.(6Mbps)_2TX

28/12/2018

5580MHz_TX



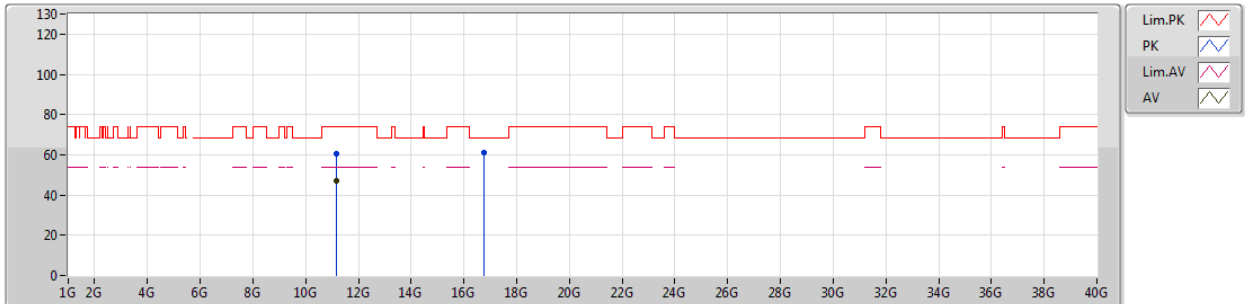
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.167G	58.95	74.00	-15.05	14.01	3	Vertical	342	2.01	-
AV	11.1622G	45.79	54.00	-8.21	14.01	3	Vertical	342	2.01	-
PK	16.76005G	59.99	68.20	-8.21	16.33	3	Vertical	230	1.84	-

802.11a_Nss1.(6Mbps)_2TX

28/12/2018

5580MHz_TX



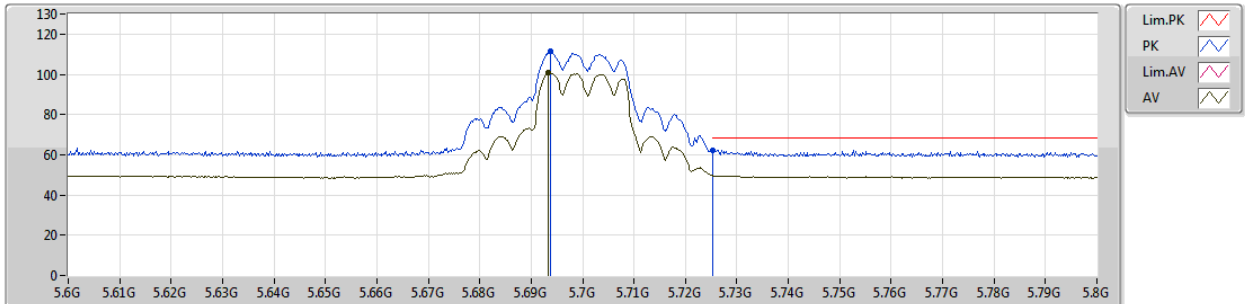
EUT_Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	11.16105G	60.69	74.00	-13.31	14.01	3	Horizontal	304	1.66	-						
AV	11.16165G	47.20	54.00	-6.80	14.01	3	Horizontal	304	1.66	-						
PK	16.74725G	60.98	68.20	-7.22	16.29	3	Horizontal	302	1.60	-						

802.11a_Nss1,(6Mbps)_2TX

02/01/2019

5700MHz_TX



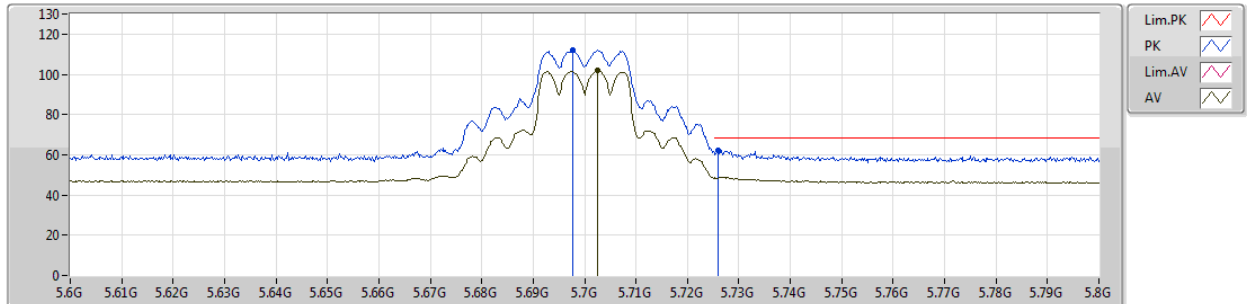
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.6938G	111.33	Inf	-Inf	9.32	3	Vertical	329	2.89	-
AV	5.6934G	100.68	Inf	-Inf	9.32	3	Vertical	329	2.89	-
PK	5.7254G	62.45	68.20	-5.75	9.34	3	Vertical	329	2.89	-

802.11a_Nss1.(6Mbps)_2TX

28/12/2018

5700MHz_TX



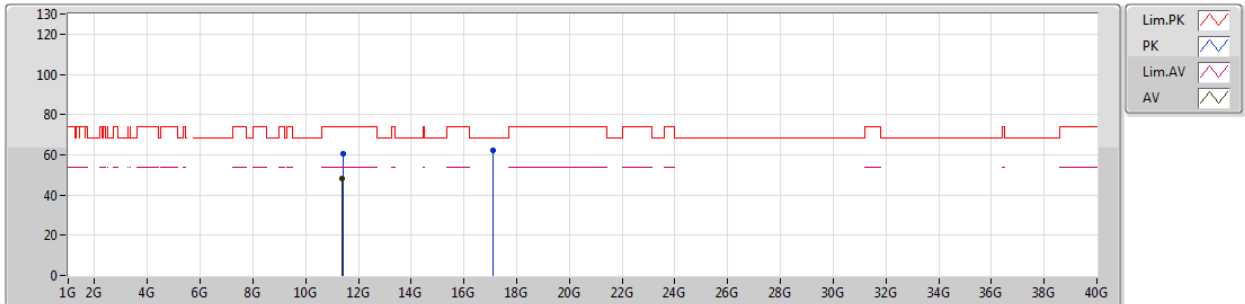
EUT_Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.6976G	111.94	Inf	-Inf	6.81	3	Horizontal	52	1.05	-
AV	5.7026G	101.91	Inf	-Inf	6.81	3	Horizontal	52	1.05	-
PK	5.726G	62.29	68.20	-5.91	6.84	3	Horizontal	52	1.05	-

802.11a_Nss1,(6Mbps)_2TX

28/12/2018

5700MHz_TX



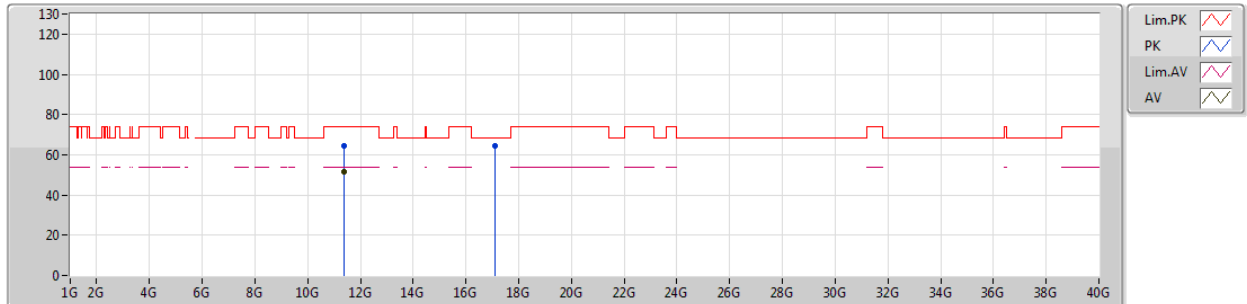
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.40775G	60.70	74.00	-13.30	14.28	3	Vertical	341	2.94	-
AV	11.3978G	48.05	54.00	-5.95	14.27	3	Vertical	341	2.94	-
PK	17.10125G	62.00	68.20	-6.20	17.59	3	Vertical	13	1.49	-

802.11a_Nss1.(6Mbps)_2TX

28/12/2018

5700MHz_TX



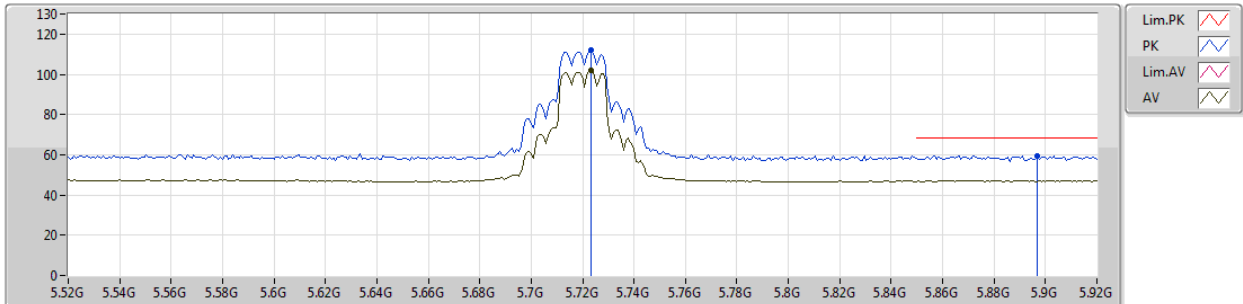
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Setting 20
03-P-2
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	11.4006G	64.49	74.00	-9.51	14.27	3	Horizontal	292	1.50	-						
AV	11.40025G	51.37	54.00	-2.63	14.27	3	Horizontal	292	1.50	-						
PK	17.0971G	64.49	68.20	-3.71	17.58	3	Horizontal	299	1.61	-						

802.11a_Nss1,(6Mbps)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

16/01/2019



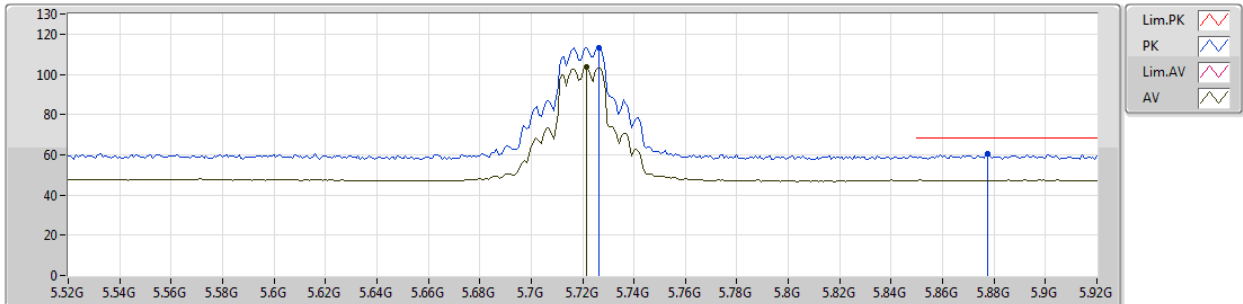
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Setting 20
02-C-5-10
FSP(100056)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.7232G	111.95	Inf	-Inf	8.79	3	Vertical	20	1.04	-
AV	5.7232G	101.91	Inf	-Inf	8.79	3	Vertical	20	1.04	-
PK	5.8968G	59.21	68.20	-8.99	8.86	3	Vertical	20	1.04	-

802.11a_Nss1,(6Mbps)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

16/01/2019



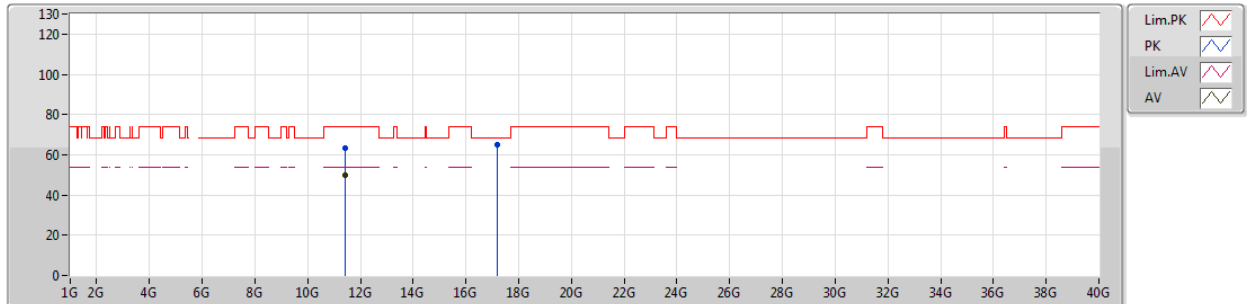
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Setting 20
02-C-5-10
FSP(100056)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.7264G	113.38	Inf	-Inf	8.80	3	Horizontal	54	1.26	-
AV	5.7216G	103.47	Inf	-Inf	8.79	3	Horizontal	54	1.26	-
PK	5.8776G	60.42	68.20	-7.78	8.87	3	Horizontal	54	1.26	-

802.11a_Nss1,(6Mbps)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

16/01/2019



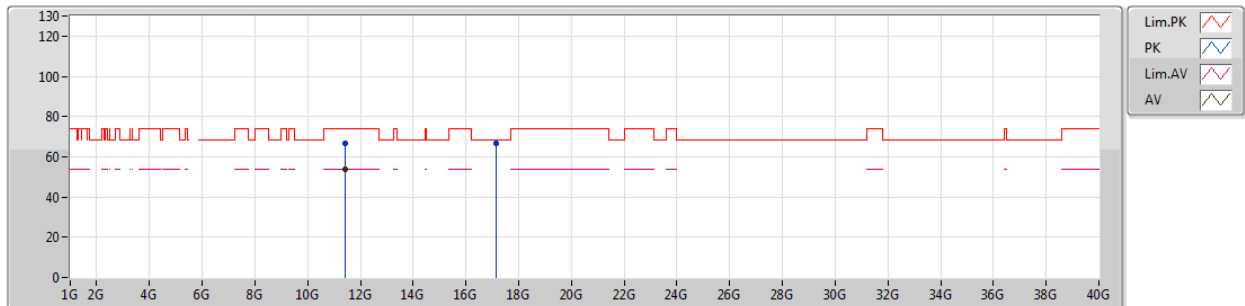
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Setting 20
02-C-5
FSP(100056)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.44264G	63.17	74.00	-10.83	14.87	3	Vertical	346	2.98	-
AV	11.4424G	49.85	54.00	-4.15	14.87	3	Vertical	346	2.98	-
PK	17.1741G	65.12	68.20	-3.08	20.37	3	Vertical	219	1.44	-

802.11a_Nss1,(6Mbps)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

16/01/2019



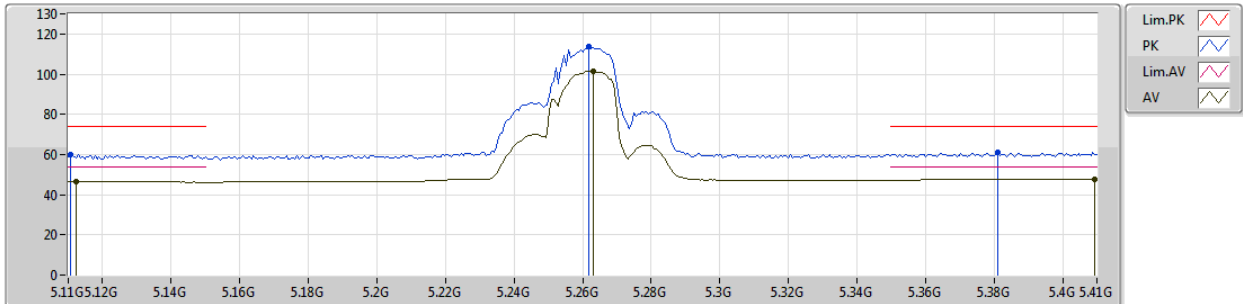
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Setting 20
02-C-5
FSP(100056)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.4406G	66.72	74.00	-7.28	14.87	3	Horizontal	280	1.62	-
AV	11.4403G	53.58	54.00	-0.42	14.87	3	Horizontal	280	1.62	-
PK	17.15382G	66.58	68.20	-1.62	20.24	3	Horizontal	313	2.83	-

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5260MHz_TX



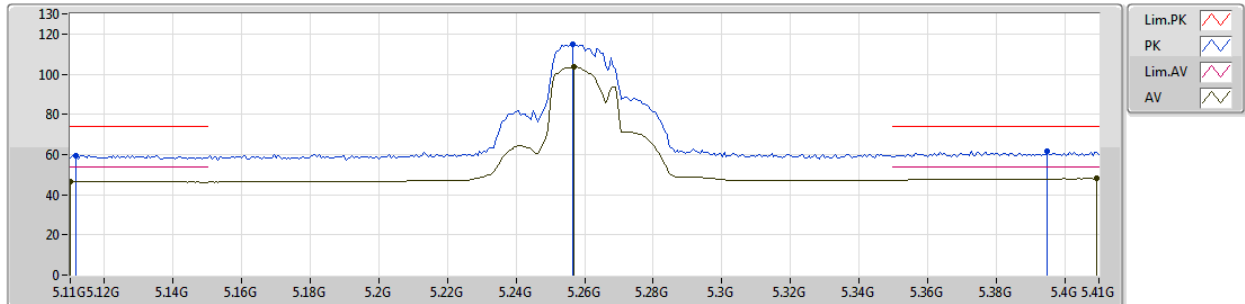
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Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1106G	60.21	74.00	-13.79	7.80	3	Vertical	346	2.91	-
AV	5.1124G	46.67	54.00	-7.33	7.80	3	Vertical	346	2.91	-
PK	5.2618G	113.61	Inf	-Inf	8.17	3	Vertical	346	2.91	-
AV	5.263G	101.66	Inf	-Inf	8.18	3	Vertical	346	2.91	-
PK	5.3812G	61.33	74.00	-12.67	8.69	3	Vertical	346	2.91	-
AV	5.4094G	47.86	54.00	-6.14	8.83	3	Vertical	346	2.91	-

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5260MHz_TX



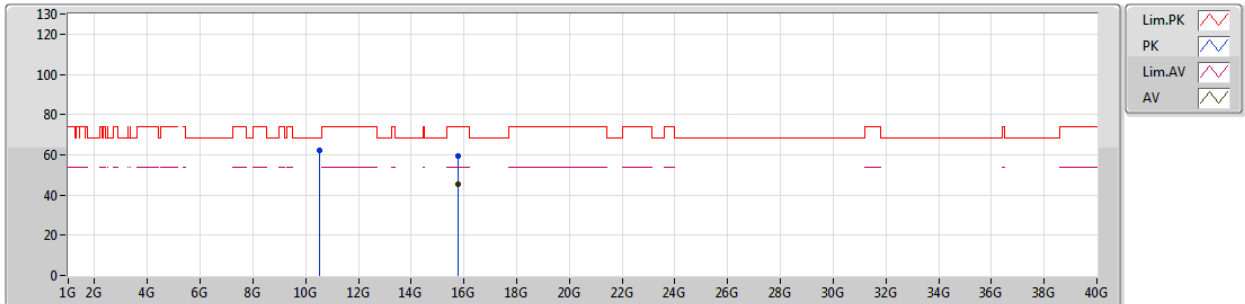
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Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1118G	59.64	74.00	-14.36	7.80	3	Horizontal	60	2.91	-
AV	5.11G	46.68	54.00	-7.32	7.80	3	Horizontal	60	2.91	-
PK	5.2564G	114.81	Inf	-Inf	8.15	3	Horizontal	60	2.91	-
AV	5.257G	103.60	Inf	-Inf	8.15	3	Horizontal	60	2.91	-
PK	5.395G	61.73	74.00	-12.27	8.76	3	Horizontal	60	2.91	-
AV	5.4094G	47.95	54.00	-6.05	8.83	3	Horizontal	60	2.91	-

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5260MHz_TX



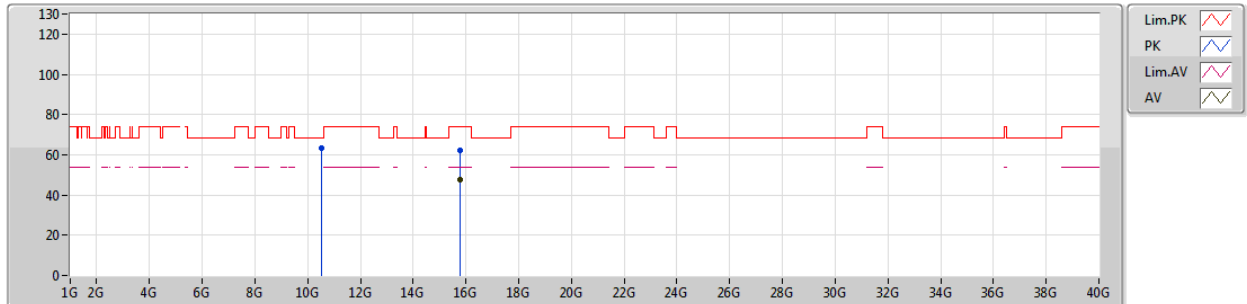
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Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	10.51175G	61.97	68.20	-6.23	15.17	3	Vertical	339	2.91	-						
PK	15.7797G	59.65	74.00	-14.35	15.88	3	Vertical	347	1.50	-						
AV	15.7683G	45.47	54.00	-8.53	15.89	3	Vertical	347	1.50	-						

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5260MHz_TX



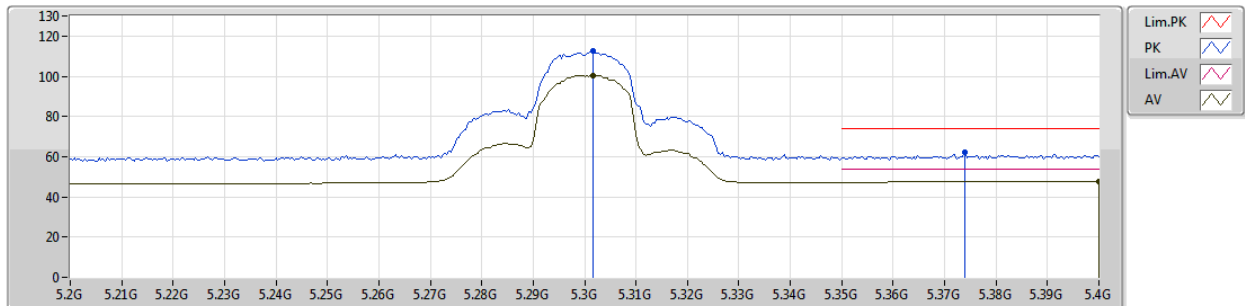
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Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	10.52255G	63.32	68.20	-4.88	15.17	3	Horizontal	50	2.21	-						
PK	15.76835G	62.14	74.00	-11.86	15.89	3	Horizontal	305	1.68	-						
AV	15.78455G	47.44	54.00	-6.56	15.88	3	Horizontal	305	1.68	-						

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5300MHz_TX



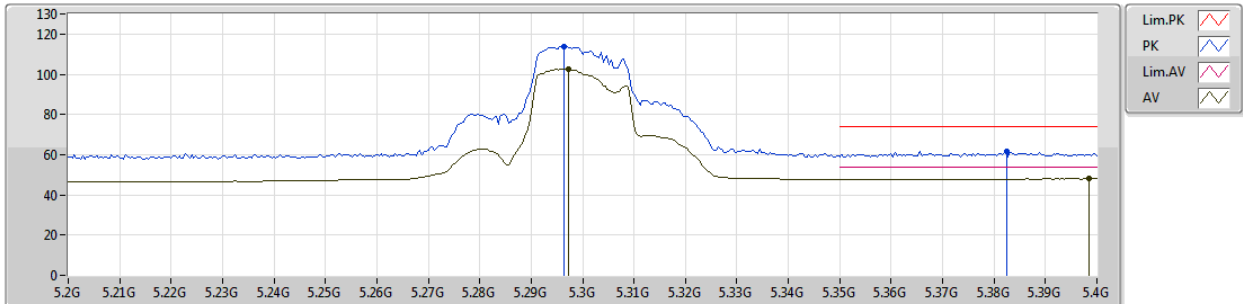
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments								
PK	5.3016G	112.83	Inf	-Inf	8.32	3	Vertical	183	2.88	-								
AV	5.3016G	100.58	Inf	-Inf	8.32	3	Vertical	183	2.88	-								
PK	5.374G	62.01	74.00	-11.99	8.66	3	Vertical	183	2.88	-								
AV	5.4G	47.81	54.00	-6.19	8.79	3	Vertical	183	2.88	-								

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5300MHz_TX



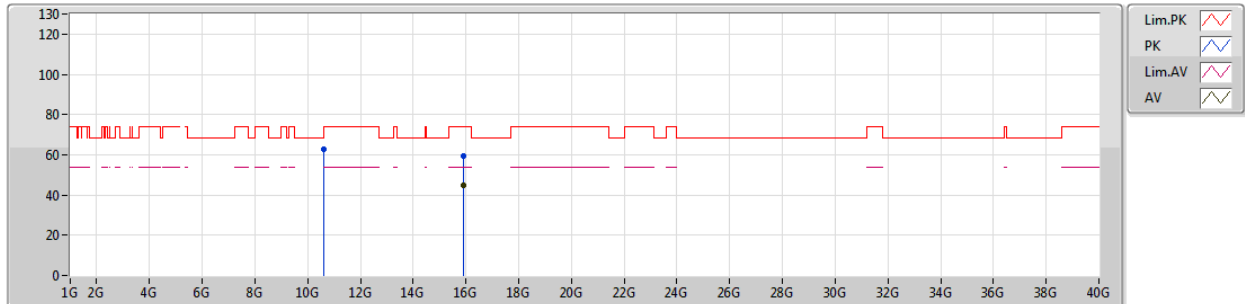
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Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.2964G	113.82	Inf	-Inf	8.30	3	Horizontal	69	2.40	-
AV	5.2972G	102.49	Inf	-Inf	8.31	3	Horizontal	69	2.40	-
PK	5.3824G	61.65	74.00	-12.35	8.71	3	Horizontal	69	2.40	-
AV	5.3984G	47.97	54.00	-6.03	8.79	3	Horizontal	69	2.40	-

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5300MHz_TX



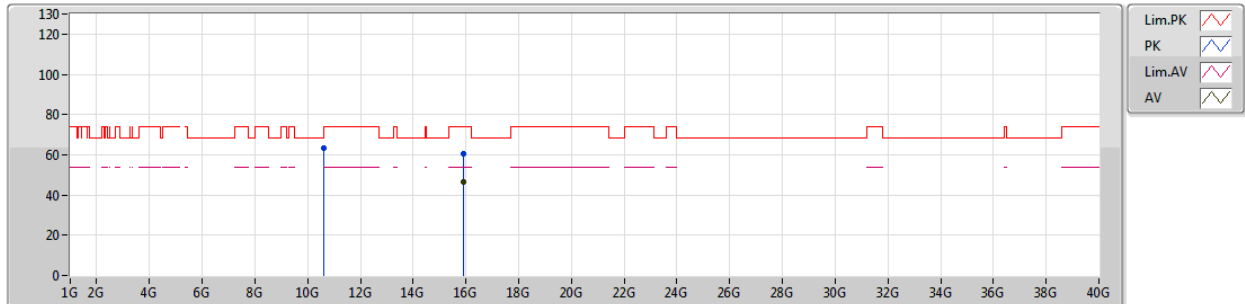
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Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	10.598G	62.60	68.20	-5.60	15.20	3	Vertical	359	2.93	-						
PK	15.8878G	59.27	74.00	-14.73	15.81	3	Vertical	282	1.50	-						
AV	15.8912G	45.03	54.00	-8.97	15.81	3	Vertical	282	1.50	-						

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5300MHz_TX



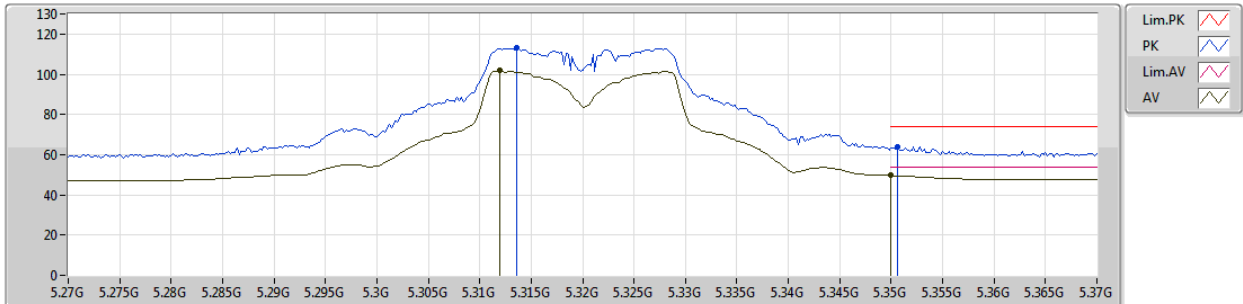
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Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	10.5991G	63.19	68.20	-5.01	15.19	3	Horizontal	299	2.34	-						
PK	15.90505G	60.60	74.00	-13.40	15.81	3	Horizontal	290	1.50	-						
AV	15.90485G	46.44	54.00	-7.56	15.81	3	Horizontal	290	1.50	-						

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5320MHz_TX



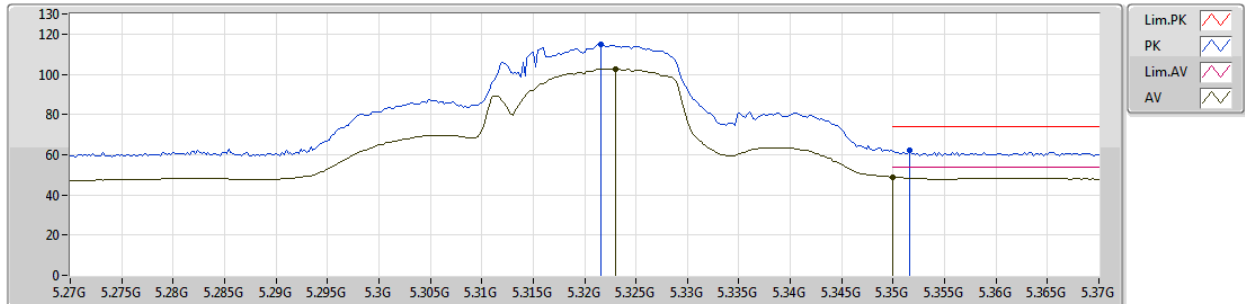
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Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments								
PK	5.3136G	112.97	Inf	-Inf	8.38	3	Vertical	14	2.99	-								
AV	5.312G	101.73	Inf	-Inf	8.38	3	Vertical	14	2.99	-								
PK	5.3506G	63.83	74.00	-10.17	8.56	3	Vertical	14	2.99	-								
AV	5.35G	49.63	54.00	-4.37	8.56	3	Vertical	14	2.99	-								

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5320MHz_TX



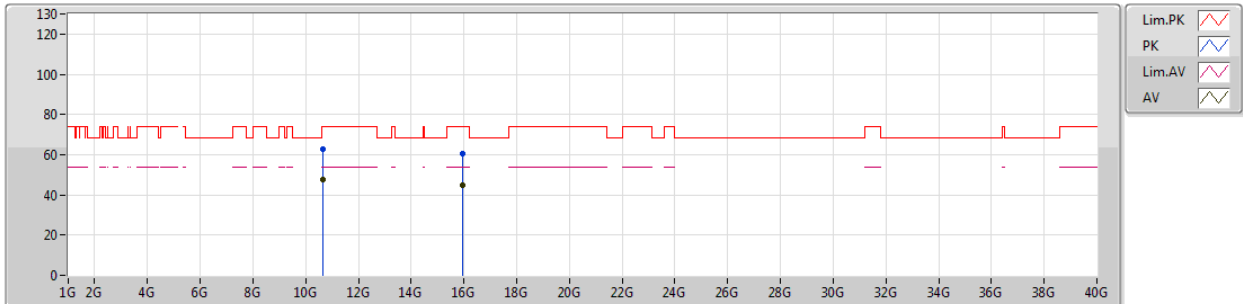
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Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.3216G	115.06	Inf	-Inf	8.42	3	Horizontal	285	2.91	-
AV	5.323G	102.73	Inf	-Inf	8.43	3	Horizontal	285	2.91	-
PK	5.3516G	62.11	74.00	-11.89	8.56	3	Horizontal	285	2.91	-
AV	5.35G	48.82	54.00	-5.18	8.56	3	Horizontal	285	2.91	-

802.11ac VHT20_Nss1,(MCS0)_2TX

14/01/2019

5320MHz_TX



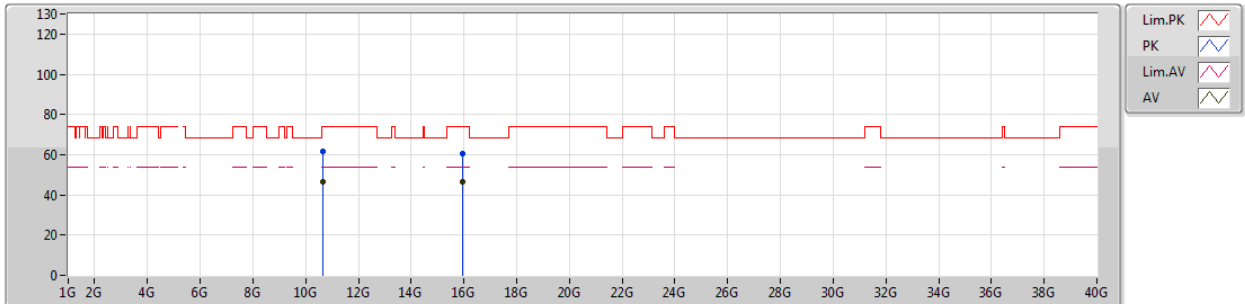
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Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.6445G	62.86	74.00	-11.14	15.22	3	Vertical	337	2.37	-
AV	10.64345G	47.73	54.00	-6.27	15.20	3	Vertical	337	2.37	-
PK	15.9546G	60.32	74.00	-13.68	15.78	3	Vertical	181	1.50	-
AV	15.9485G	44.84	54.00	-9.16	15.78	3	Vertical	181	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

14/01/2019

5320MHz_TX



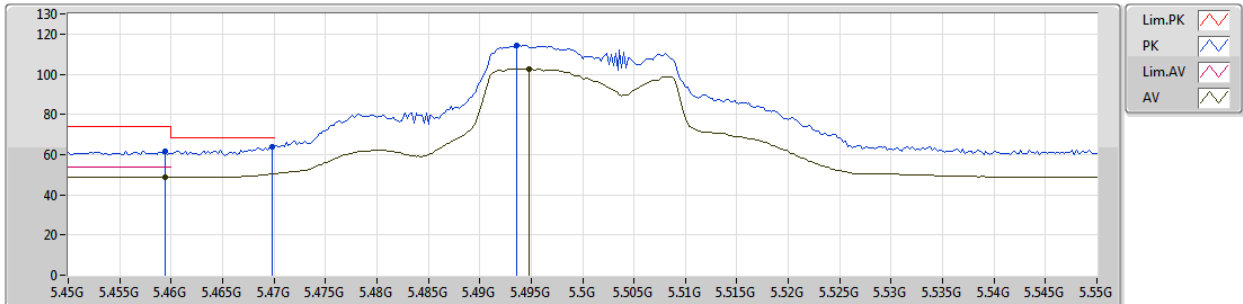
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Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.6379G	61.73	74.00	-12.27	15.21	3	Horizontal	302	2.30	-
AV	10.63975G	46.62	54.00	-7.38	15.21	3	Horizontal	302	2.30	-
PK	15.9681G	60.72	74.00	-13.28	15.78	3	Horizontal	289	1.50	-
AV	15.96475G	46.25	54.00	-7.75	15.77	3	Horizontal	289	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

03/01/2019

5500MHz_TX



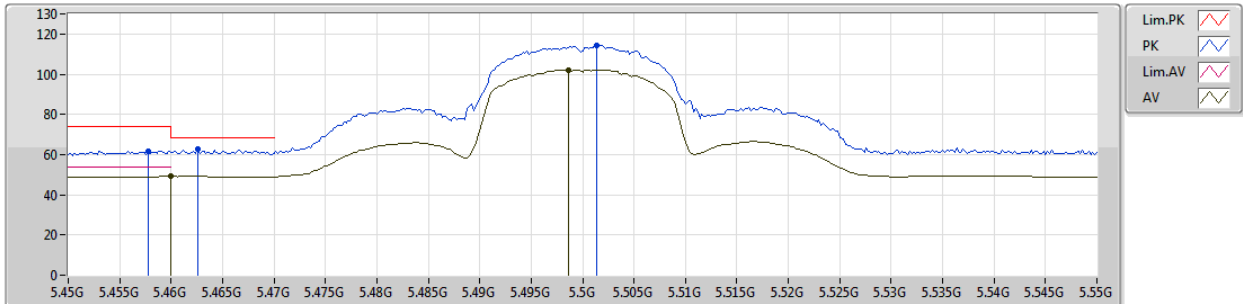
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Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.4594G	61.83	74.00	-12.17	9.02	3	Vertical	2	2.97	-
AV	5.4594G	48.89	54.00	-5.11	9.02	3	Vertical	2	2.97	-
PK	5.4698G	64.15	68.20	-4.05	9.06	3	Vertical	2	2.97	-
PK	5.4936G	114.47	Inf	-Inf	9.14	3	Vertical	2	2.97	-
AV	5.4948G	102.66	Inf	-Inf	9.15	3	Vertical	2	2.97	-

802.11ac VHT20_Nss1,(MCS0)_2TX

03/01/2019

5500MHz_TX



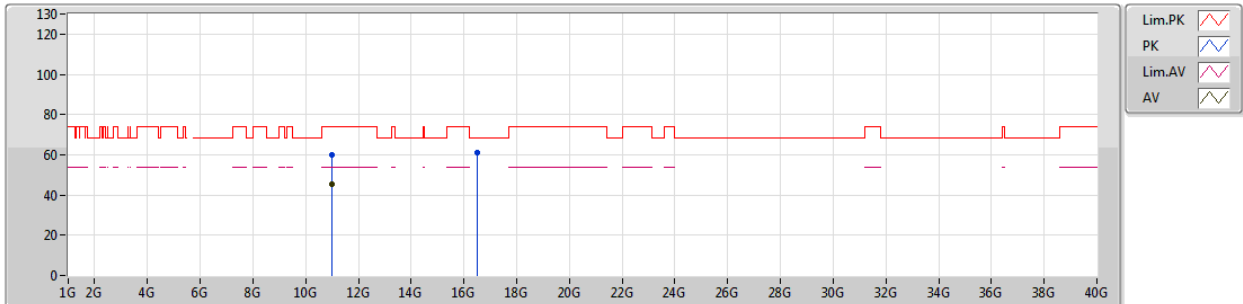
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Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.4578G	61.74	74.00	-12.26	9.01	3	Horizontal	297	2.99	-
AV	5.46G	49.12	54.00	-4.88	9.02	3	Horizontal	297	2.99	-
PK	5.4626G	62.80	68.20	-5.40	9.03	3	Horizontal	297	2.99	-
PK	5.5014G	114.53	Inf	-Inf	9.17	3	Horizontal	297	2.99	-
AV	5.4986G	102.25	Inf	-Inf	9.16	3	Horizontal	297	2.99	-

802.11ac VHT20_Nss1,(MCS0)_2TX

03/01/2019

5500MHz_TX



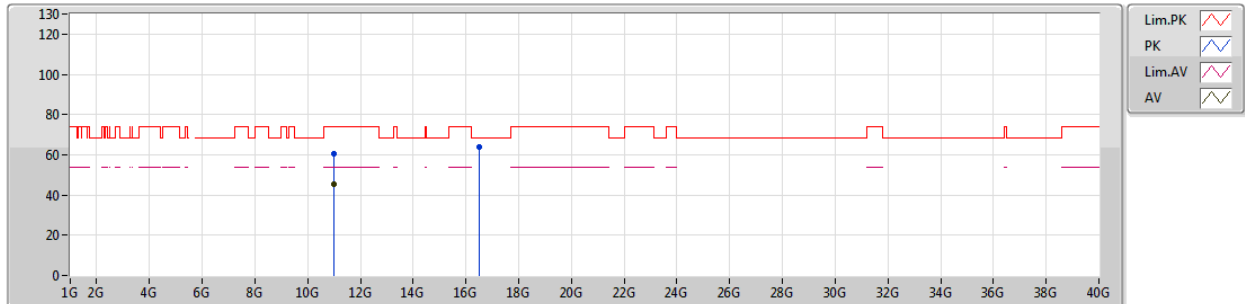
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.9982G	60.03	74.00	-13.97	15.34	3	Vertical	350	2.06	-
AV	10.99905G	45.35	54.00	-8.65	15.34	3	Vertical	350	2.06	-
PK	16.493G	60.93	68.20	-7.27	16.76	3	Vertical	153	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

03/01/2019

5500MHz_TX



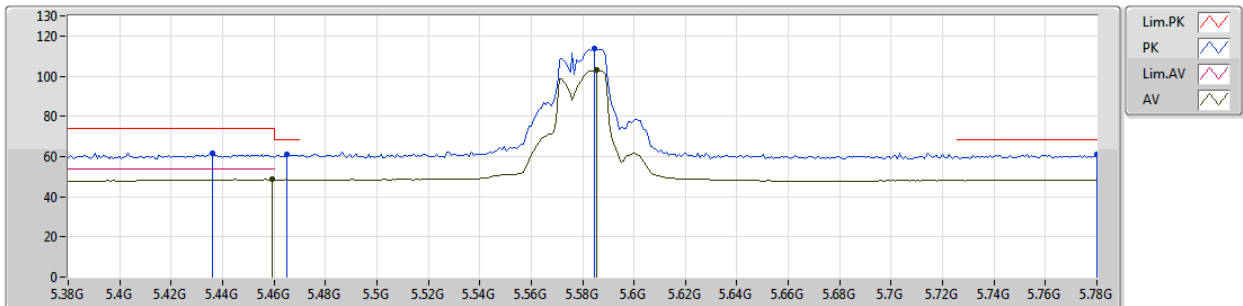
EUT_Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.00055G	60.71	74.00	-13.29	15.34	3	Horizontal	301	2.15	-
AV	10.99895G	45.56	54.00	-8.44	15.34	3	Horizontal	301	2.15	-
PK	16.5004G	63.99	68.20	-4.21	16.78	3	Horizontal	294	1.69	-

802.11ac VHT20_Nss1,(MCS0)_2TX

03/01/2019

5580MHz_TX



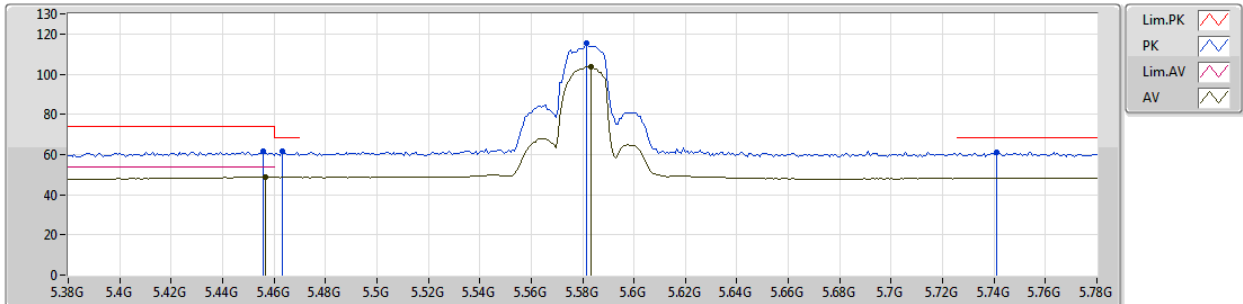
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.436G	61.51	74.00	-12.49	8.92	3	Vertical	22	2.89	-
AV	5.4592G	48.51	54.00	-5.49	9.02	3	Vertical	22	2.89	-
PK	5.4648G	60.82	68.20	-7.38	9.04	3	Vertical	22	2.89	-
PK	5.5848G	113.75	Inf	-Inf	9.30	3	Vertical	22	2.89	-
AV	5.5856G	102.99	Inf	-Inf	9.30	3	Vertical	22	2.89	-
PK	5.78G	61.28	68.20	-6.92	9.39	3	Vertical	22	2.89	-

802.11ac VHT20_Nss1,(MCS0)_2TX

03/01/2019

5580MHz_TX



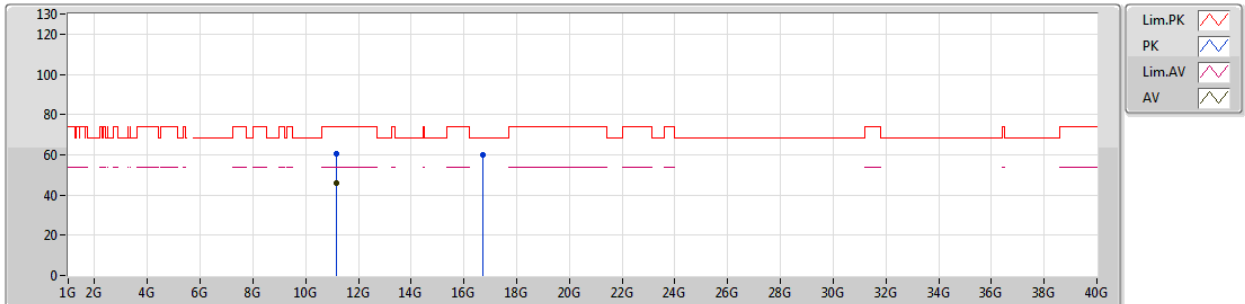
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Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.456G	61.42	74.00	-12.58	9.00	3	Horizontal	294	2.91	-
AV	5.4568G	48.63	54.00	-5.37	9.01	3	Horizontal	294	2.91	-
PK	5.4632G	61.39	68.20	-6.81	9.03	3	Horizontal	294	2.91	-
PK	5.5816G	115.32	Inf	-Inf	9.29	3	Horizontal	294	2.91	-
AV	5.5832G	103.50	Inf	-Inf	9.30	3	Horizontal	294	2.91	-
PK	5.7408G	61.07	68.20	-7.13	9.36	3	Horizontal	294	2.91	-

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5580MHz_TX



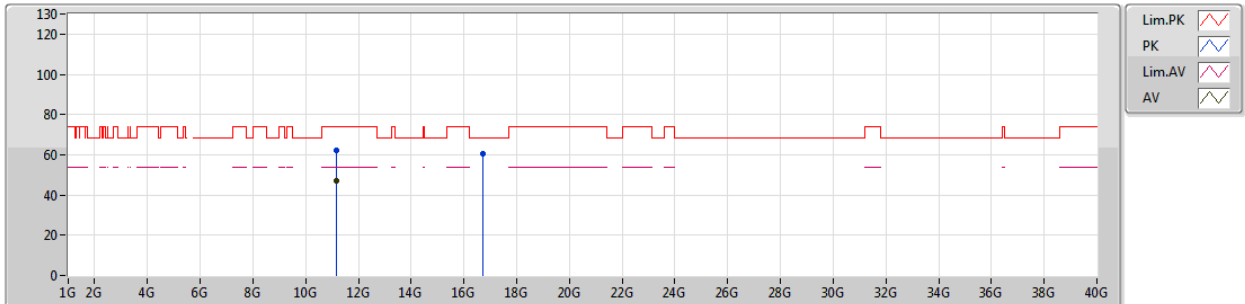
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.1624G	60.76	74.00	-13.24	15.30	3	Vertical	343	2.27	-						
AV	11.16355G	45.90	54.00	-8.10	15.29	3	Vertical	343	2.27	-						
PK	16.73105G	59.87	68.20	-8.33	17.25	3	Vertical	360	2.13	-						

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5580MHz_TX



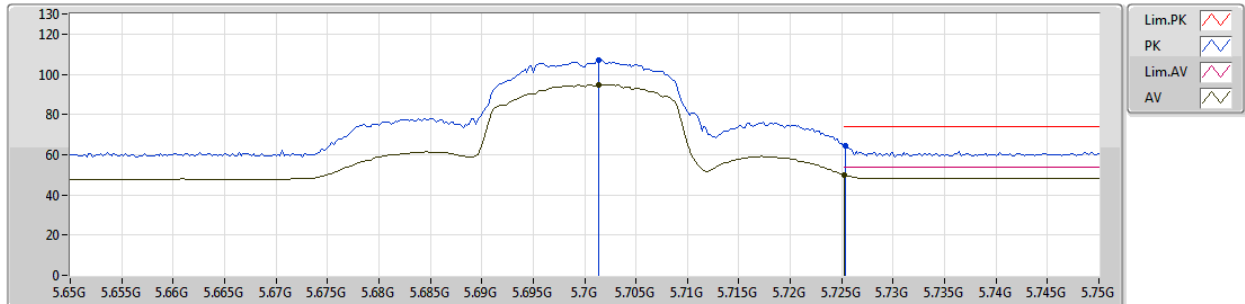
EUT_Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.16265G	62.20	74.00	-11.80	15.29	3	Horizontal	307	1.72	-						
AV	11.16355G	46.96	54.00	-7.04	15.29	3	Horizontal	307	1.72	-						
PK	16.7365G	60.78	68.20	-7.42	17.26	3	Horizontal	311	1.50	-						

802.11ac VHT20_Nss1,(MCS0)_2TX

03/01/2019

5700MHz_TX



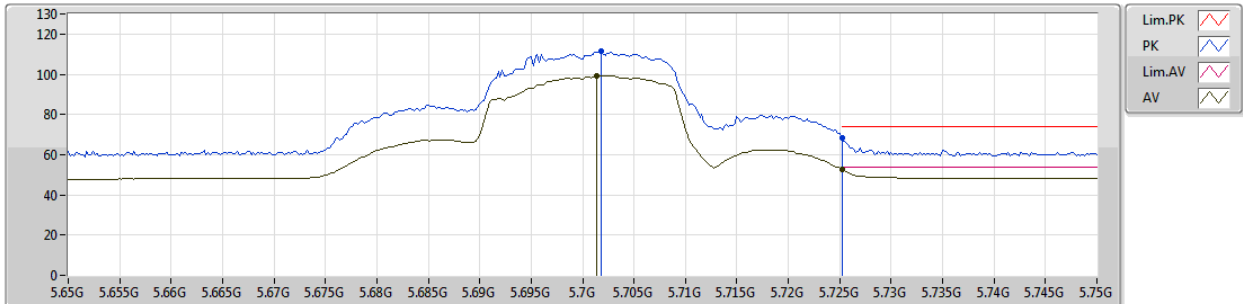
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.7014G	107.18	Inf	-Inf	9.32	3	Vertical	316	1.50	-
AV	5.7014G	94.84	Inf	-Inf	9.32	3	Vertical	316	1.50	-
PK	5.7254G	64.19	74.00	-9.81	9.34	3	Vertical	316	1.50	-
AV	5.7252G	50.06	54.00	-3.94	9.34	3	Vertical	316	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

03/01/2019

5700MHz_TX



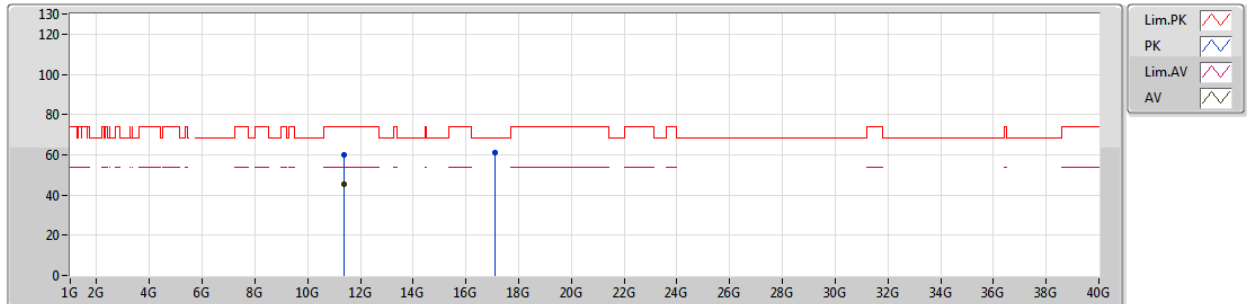
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Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.7018G	111.33	Inf	-Inf	9.32	3	Horizontal	66	1.49	-
AV	5.7014G	99.13	Inf	-Inf	9.32	3	Horizontal	66	1.49	-
PK	5.7252G	68.38	74.00	-5.62	9.34	3	Horizontal	66	1.49	-
AV	5.7252G	52.69	54.00	-1.31	9.34	3	Horizontal	66	1.49	-

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5700MHz_TX



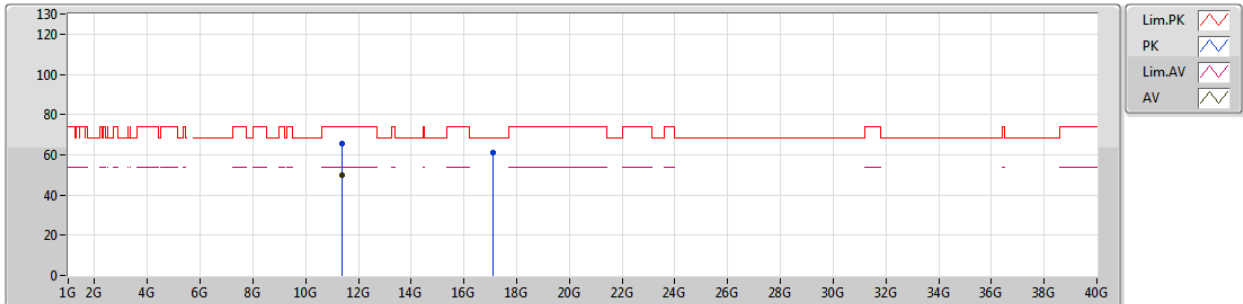
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Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.39945G	59.91	74.00	-14.09	15.23	3	Vertical	24	1.50	-						
AV	11.4001G	45.56	54.00	-8.44	15.23	3	Vertical	24	1.50	-						
PK	17.09375G	60.90	68.20	-7.30	17.95	3	Vertical	94	1.50	-						

802.11ac VHT20_Nss1,(MCS0)_2TX

02/01/2019

5700MHz_TX



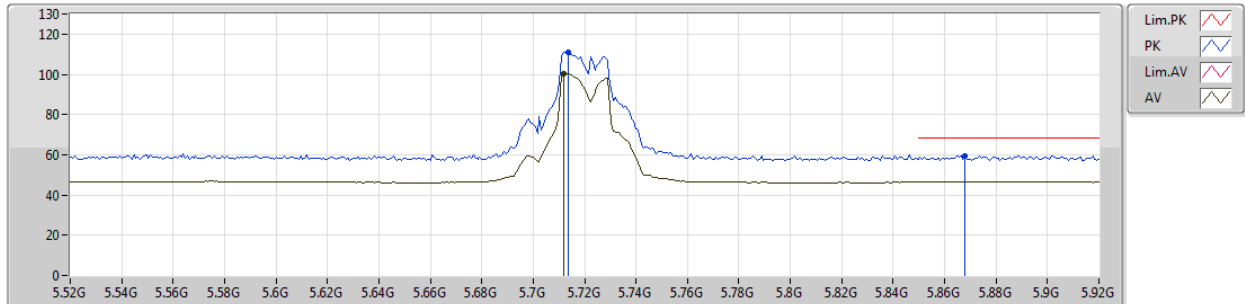
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Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.39935G	65.50	74.00	-8.50	15.23	3	Horizontal	300	1.67	-						
AV	11.3997G	49.70	54.00	-4.30	15.23	3	Horizontal	300	1.67	-						
PK	17.0934G	61.08	68.20	-7.12	17.95	3	Horizontal	302	1.50	-						

802.11ac VHT20_Nss1,(MCS0)_2TX

16/01/2019

5720MHz Straddle 5.47-5.725GHz_TX



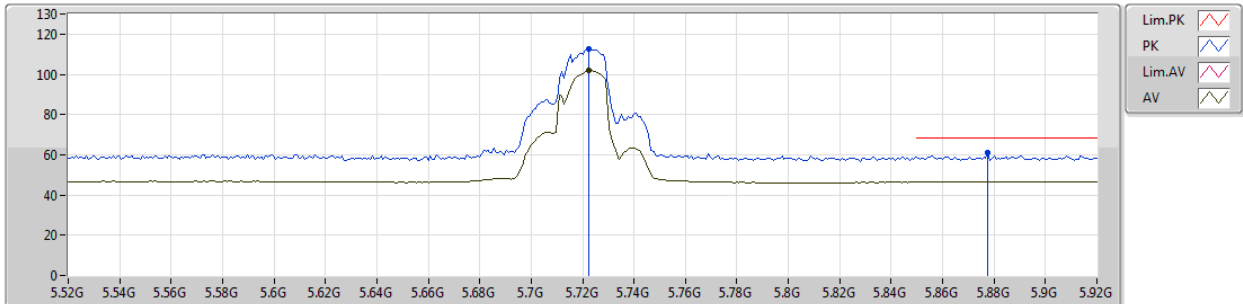
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Setting 20
02-C-5-10
FSP(100056)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.7136G	111.03	Inf	-Inf	8.78	3	Vertical	20	1.08	-
AV	5.712G	100.28	Inf	-Inf	8.79	3	Vertical	20	1.08	-
PK	5.868G	59.54	68.20	-8.66	8.86	3	Vertical	20	1.08	-

802.11ac VHT20_Nss1,(MCS0)_2TX

16/01/2019

5720MHz Straddle 5.47-5.725GHz_TX



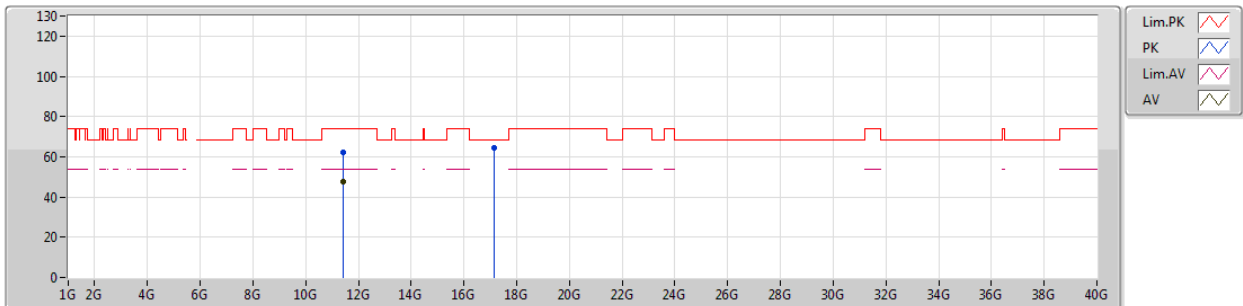
EUT Y_2TX
Setting 20
02-C-5-10
FSP(100056)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.7224G	112.44	Inf	-Inf	8.79	3	Horizontal	54	1.37	-
AV	5.7224G	101.89	Inf	-Inf	8.79	3	Horizontal	54	1.37	-
PK	5.8776G	60.84	68.20	-7.36	8.87	3	Horizontal	54	1.37	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

16/01/2019



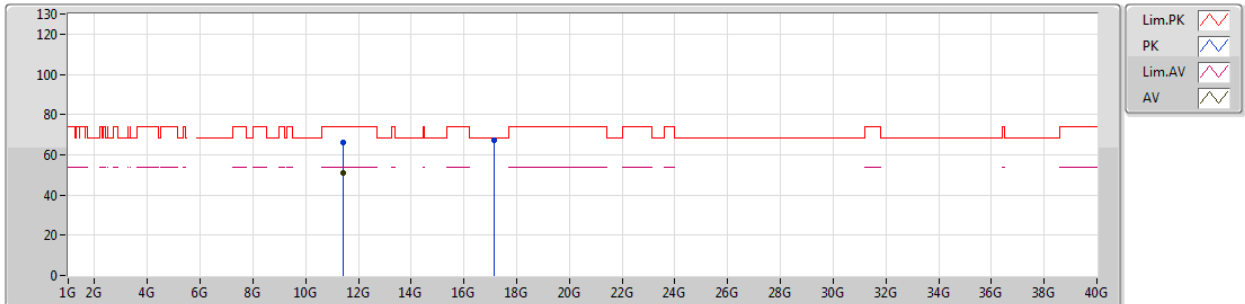
EUT Y_2TX
Setting 20
02-C-5-10
FSP(100056)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.43816G	62.19	74.00	-11.81	14.86	3	Vertical	327	2.98	-						
AV	11.44016G	47.45	54.00	-6.55	14.87	3	Vertical	327	2.98	-						
PK	17.15368G	64.70	68.20	-3.50	20.24	3	Vertical	100	2.23	-						

802.11ac VHT20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.47-5.725GHz_TX

16/01/2019



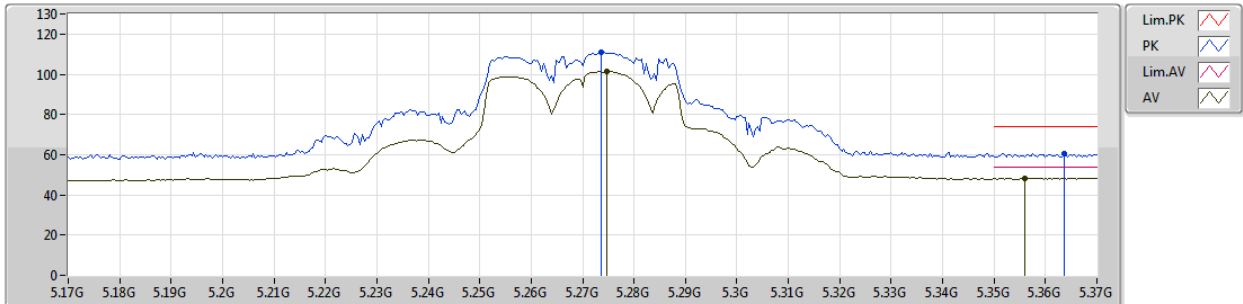
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Setting 20
02-C-5-10
FSP(100056)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments							
PK	11.43912G	66.22	74.00	-7.78	14.87	3	Horizontal	298	1.67	-							
AV	11.4388G	51.10	54.00	-2.90	14.86	3	Horizontal	298	1.67	-							
PK	17.15472G	67.46	68.20	-0.74	20.25	3	Horizontal	294	2.41	-							

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5270MHz_TX



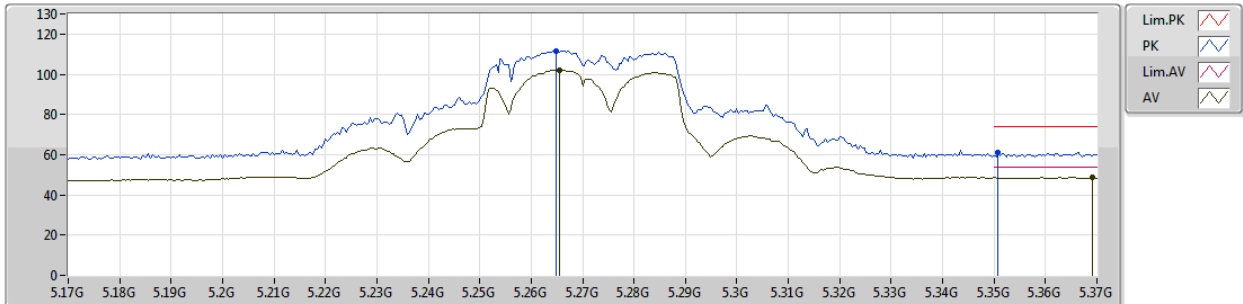
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.2736G	110.99	Inf	-Inf	8.22	3	Vertical	344	2.89	-
AV	5.2748G	101.32	Inf	-Inf	8.22	3	Vertical	344	2.89	-
PK	5.3636G	60.30	74.00	-13.70	8.62	3	Vertical	344	2.89	-
AV	5.356G	48.31	54.00	-5.69	8.59	3	Vertical	344	2.89	-

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5270MHz_TX



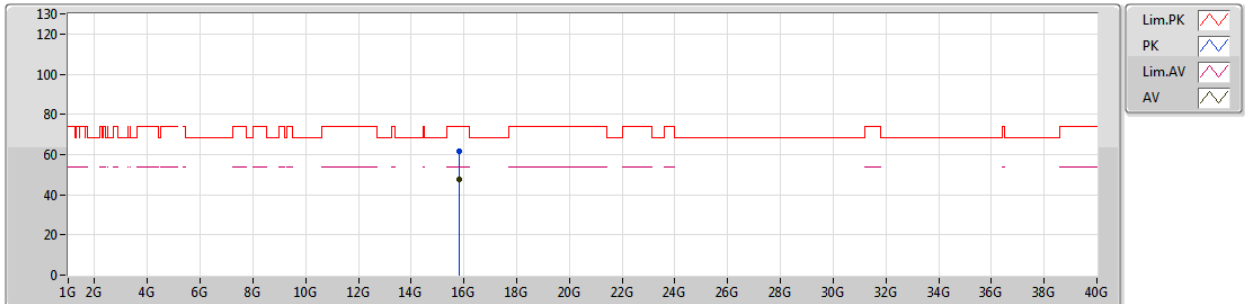
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Setting 20
04-L-3-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.2648G	111.48	Inf	-Inf	8.18	3	Horizontal	63	2.91	-
AV	5.2656G	102.11	Inf	-Inf	8.18	3	Horizontal	63	2.91	-
PK	5.3508G	60.97	74.00	-13.03	8.56	3	Horizontal	63	2.91	-
AV	5.3692G	48.65	54.00	-5.35	8.65	3	Horizontal	63	2.91	-

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5270MHz_TX



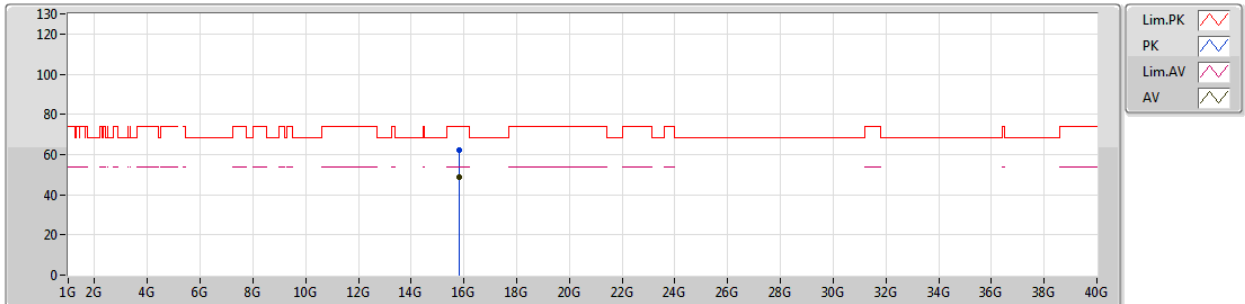
EUT_Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	15.8055G	61.48	74.00	-12.52	15.86	3	Vertical	360	1.50	-						
AV	15.8017G	47.57	54.00	-6.43	15.86	3	Vertical	360	1.50	-						

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5270MHz_TX



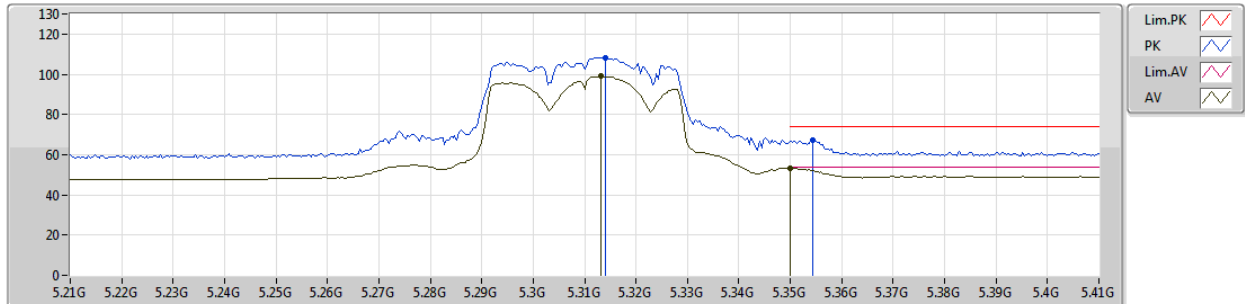
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Setting 20
04-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments								
PK	15.8124G	61.99	74.00	-12.01	15.86	3	Horizontal	301	1.68	-								
AV	15.8162G	48.77	54.00	-5.23	15.86	3	Horizontal	301	1.68	-								

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5310MHz_TX



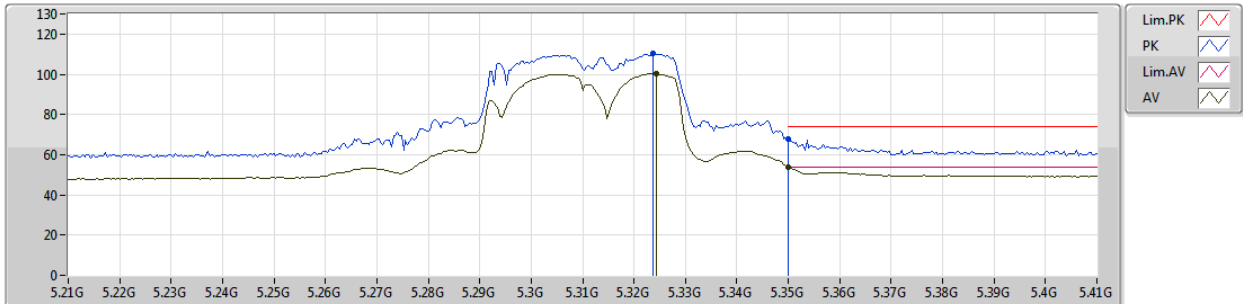
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Setting 18
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.314G	108.36	Inf	-Inf	8.38	3	Vertical	185	2.73	-
AV	5.3132G	98.99	Inf	-Inf	8.38	3	Vertical	185	2.73	-
PK	5.3544G	67.09	74.00	-6.91	8.58	3	Vertical	185	2.73	-
AV	5.35G	53.31	54.00	-0.69	8.56	3	Vertical	185	2.73	-

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5310MHz_TX



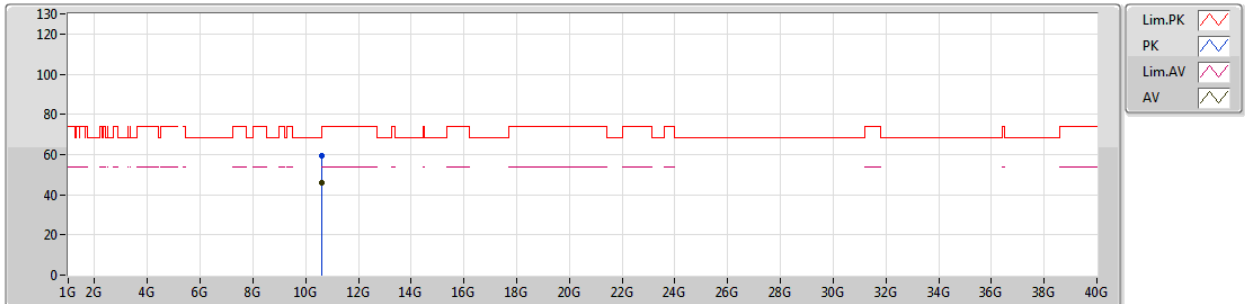
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Setting 18
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.3236G	110.19	Inf	-Inf	8.43	3	Horizontal	68	2.99	-
AV	5.3244G	100.29	Inf	-Inf	8.43	3	Horizontal	68	2.99	-
PK	5.35G	67.66	74.00	-6.34	8.56	3	Horizontal	68	2.99	-
AV	5.35G	53.82	54.00	-0.18	8.56	3	Horizontal	68	2.99	-

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5310MHz_TX



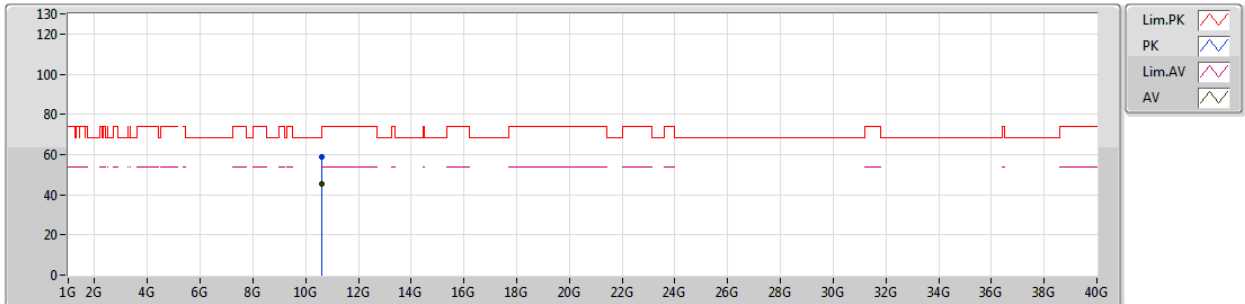
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Setting 18
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments								
PK	10.61952G	59.45	74.00	-14.55	15.21	3	Vertical	340	2.44	-								
AV	10.61997G	45.87	54.00	-8.13	15.20	3	Vertical	340	2.44	-								

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5310MHz_TX



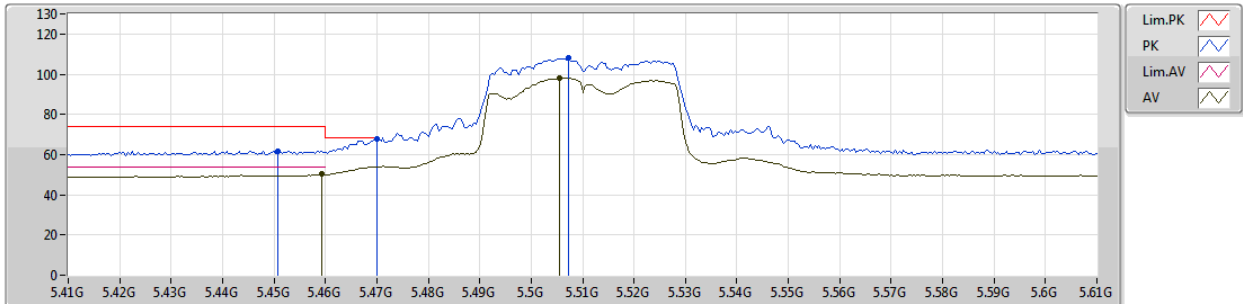
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Setting 18
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	10.61859G	59.02	74.00	-14.98	15.20	3	Horizontal	49	2.85	-						
AV	10.61963G	45.11	54.00	-8.89	15.21	3	Horizontal	49	2.85	-						

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5510MHz_TX



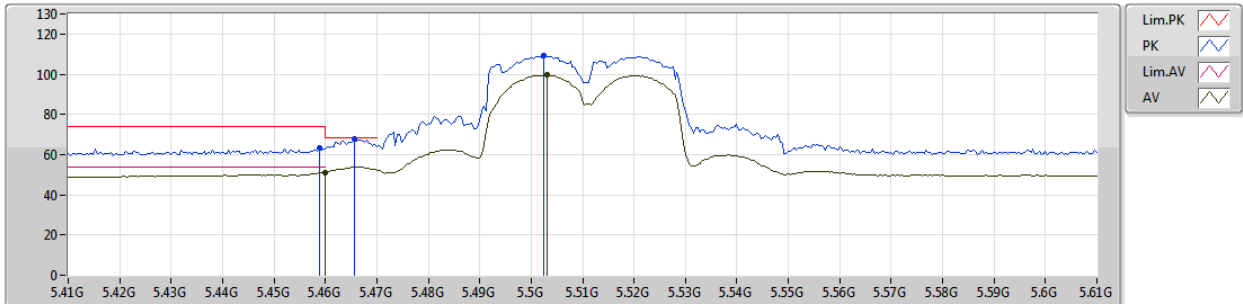
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Setting 18
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments								
PK	5.4508G	61.84	74.00	-12.16	8.98	3	Vertical	327	2.09	-								
AV	5.4592G	50.18	54.00	-3.82	9.02	3	Vertical	327	2.09	-								
PK	5.47G	67.97	68.20	-0.23	9.06	3	Vertical	327	2.09	-								
PK	5.5072G	107.91	Inf	-Inf	9.18	3	Vertical	327	2.09	-								
AV	5.5056G	98.08	Inf	-Inf	9.18	3	Vertical	327	2.09	-								

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5510MHz_TX



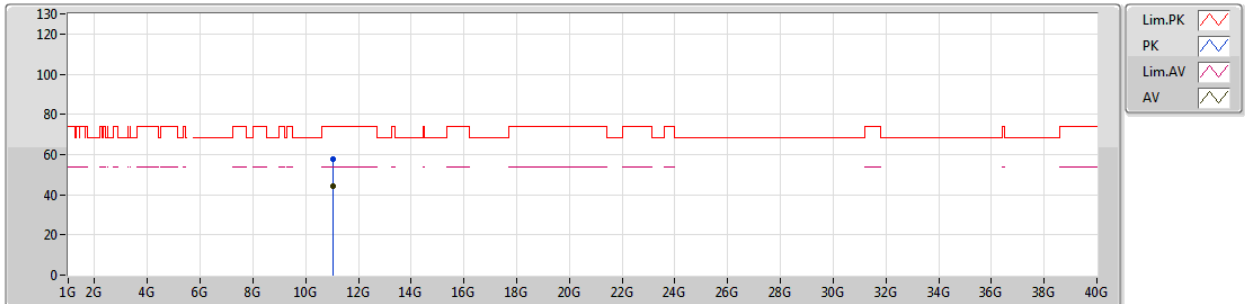
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Setting 18
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments								
PK	5.4588G	63.06	74.00	-10.94	9.02	3	Horizontal	75	2.99	-								
AV	5.46G	51.20	54.00	-2.80	9.02	3	Horizontal	75	2.99	-								
PK	5.4656G	67.73	68.20	-0.47	9.04	3	Horizontal	75	2.99	-								
PK	5.5024G	109.03	Inf	-Inf	9.17	3	Horizontal	75	2.99	-								
AV	5.5032G	99.49	Inf	-Inf	9.18	3	Horizontal	75	2.99	-								

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5510MHz_TX



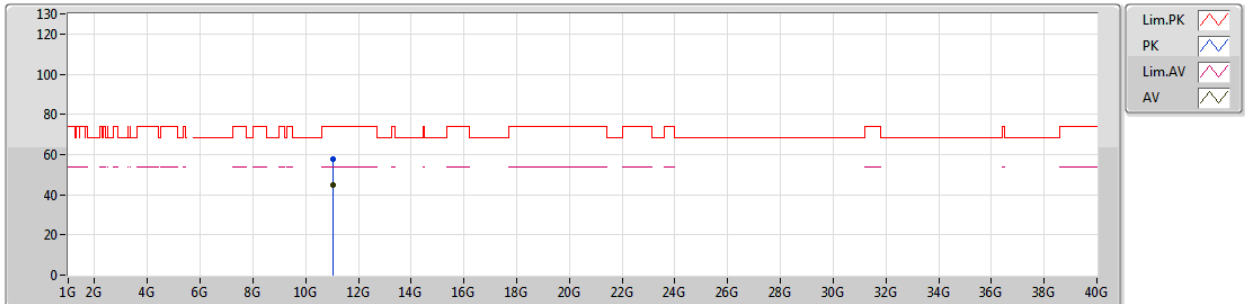
EUT Y_2TX
Setting 18
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments							
PK	11.02022G	57.68	74.00	-16.32	15.33	3	Vertical	340	2.35	-							
AV	11.02007G	44.39	54.00	-9.61	15.33	3	Vertical	340	2.35	-							

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5510MHz_TX



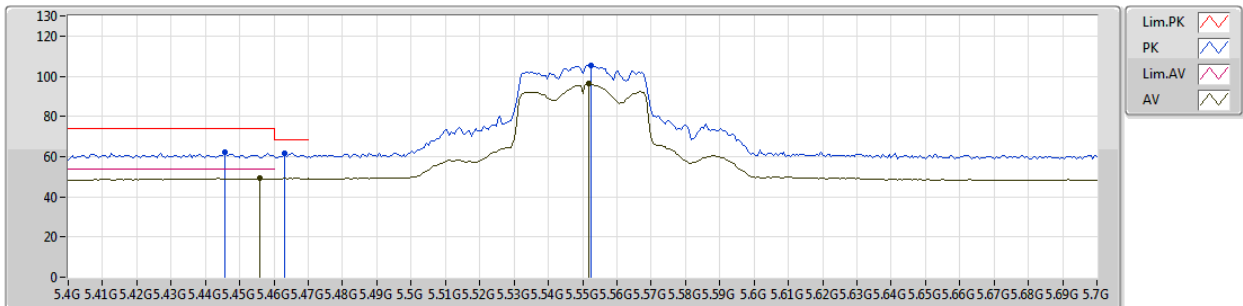
EUT Y_2TX
Setting 18
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.02029G	57.61	74.00	-16.39	15.33	3	Horizontal	306	1.72	-						
AV	11.02034G	44.74	54.00	-9.26	15.33	3	Horizontal	306	1.72	-						

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5550MHz_TX



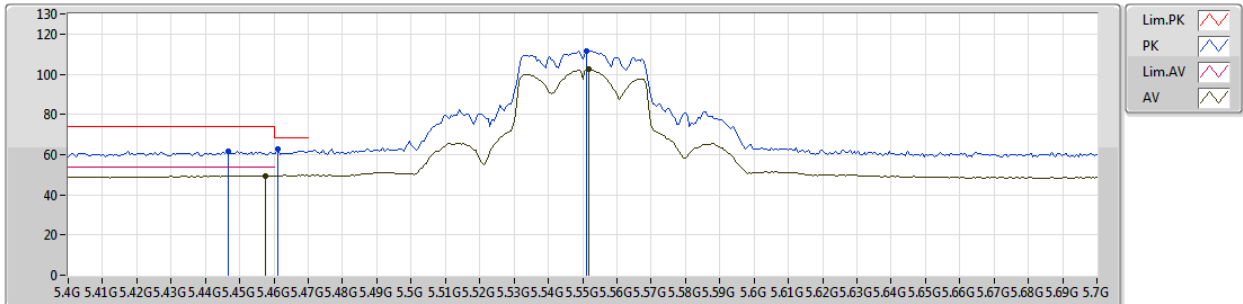
EUT Y_2TX
Setting 20
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.4456G	62.17	74.00	-11.83	8.96	3	Vertical	309	1.50	-
AV	5.4558G	49.18	54.00	-4.82	9.00	3	Vertical	309	1.50	-
PK	5.463G	61.50	68.20	-6.70	9.03	3	Vertical	309	1.50	-
PK	5.5524G	105.57	Inf	-Inf	9.24	3	Vertical	309	1.50	-
AV	5.5518G	96.16	Inf	-Inf	9.24	3	Vertical	309	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5550MHz_TX



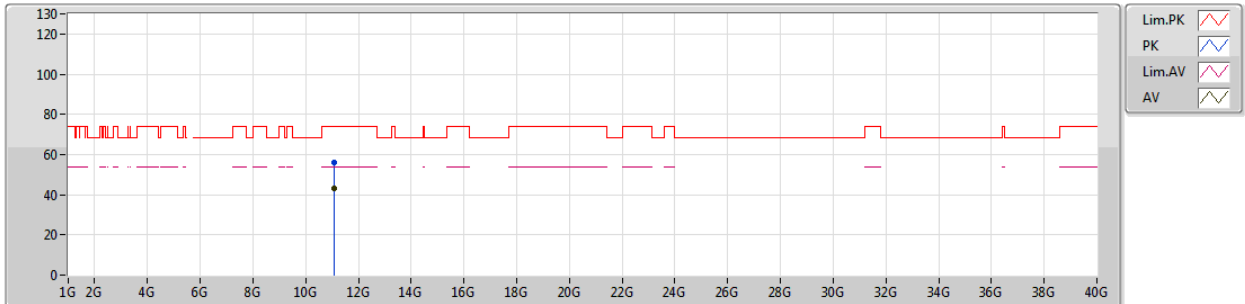
EUT Y_2TX
Setting 20
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.4468G	61.66	74.00	-12.34	8.97	3	Horizontal	293	2.99	-
AV	5.4576G	49.53	54.00	-4.47	9.01	3	Horizontal	293	2.99	-
PK	5.4612G	62.48	68.20	-5.72	9.02	3	Horizontal	293	2.99	-
PK	5.5512G	111.57	Inf	-Inf	9.24	3	Horizontal	293	2.99	-
AV	5.5518G	102.34	Inf	-Inf	9.24	3	Horizontal	293	2.99	-

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5550MHz_TX



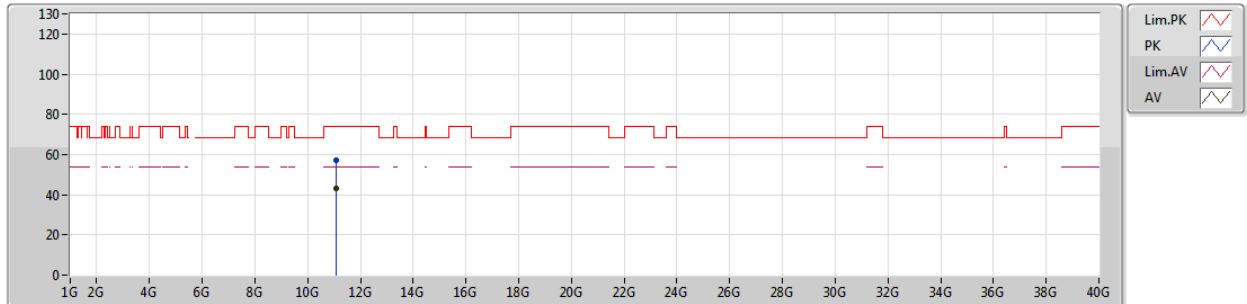
EUT_Y_2TX
Setting 20
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.09869G	56.30	74.00	-17.70	15.32	3	Vertical	305	1.08	-						
AV	11.10226G	43.24	54.00	-10.76	15.32	3	Vertical	305	1.08	-						

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5550MHz_TX



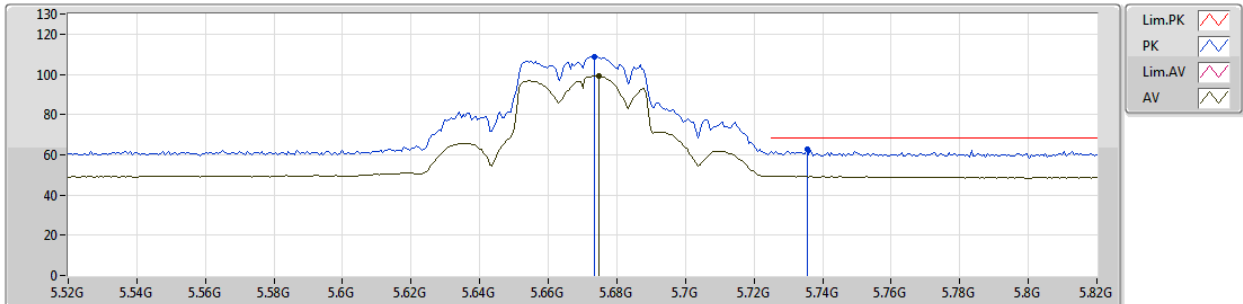
EUT_Y_2TX
Setting 20
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.09878G	56.89	74.00	-17.11	15.32	3	Horizontal	28	1.50	-						
AV	11.10112G	43.19	54.00	-10.81	15.32	3	Horizontal	28	1.50	-						

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5670MHz_TX



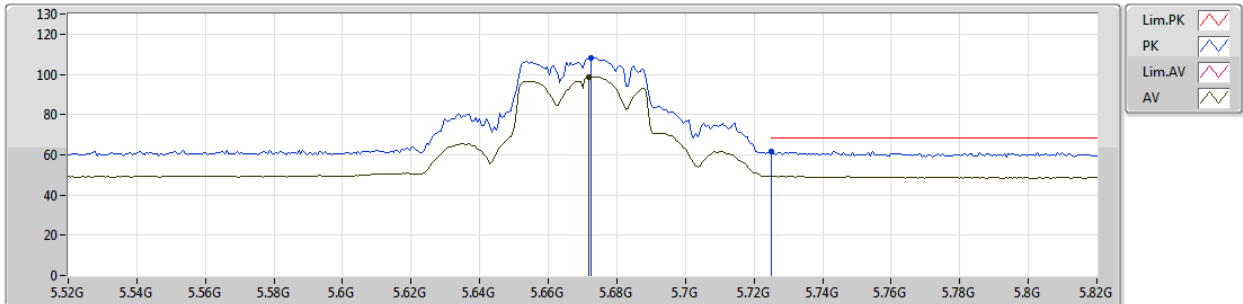
EUT Y_2TX
Setting 20
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments								
PK	5.6736G	108.65	Inf	-Inf	9.32	3	Vertical	68	1.31	-								
AV	5.6748G	99.15	Inf	-Inf	9.32	3	Vertical	68	1.31	-								
PK	5.7354G	62.55	68.20	-5.65	9.35	3	Vertical	68	1.31	-								

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5670MHz_TX



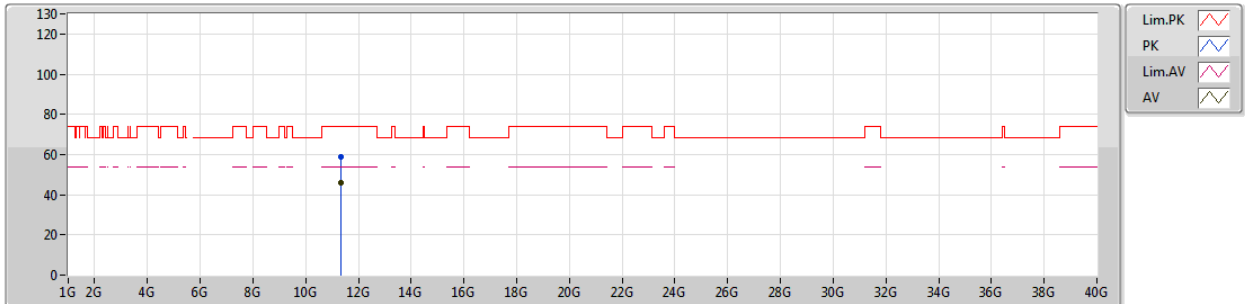
EUT Y_2TX
Setting 20
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.6724G	108.18	Inf	-Inf	9.32	3	Horizontal	70	1.30	-
AV	5.6718G	98.63	Inf	-Inf	9.32	3	Horizontal	70	1.30	-
PK	5.7252G	61.86	68.20	-6.34	9.34	3	Horizontal	70	1.30	-

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5670MHz_TX



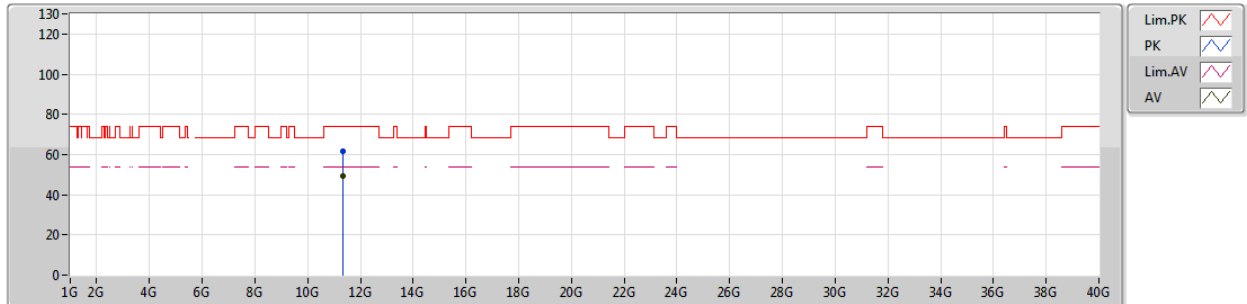
EUT Y_2TX
Setting 20
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.34128G	58.82	74.00	-15.18	15.24	3	Vertical	26	2.28	-						
AV	11.34013G	45.74	54.00	-8.26	15.24	3	Vertical	26	2.28	-						

802.11ac VHT40_Nss1,(MCS0)_2TX

03/01/2019

5670MHz_TX



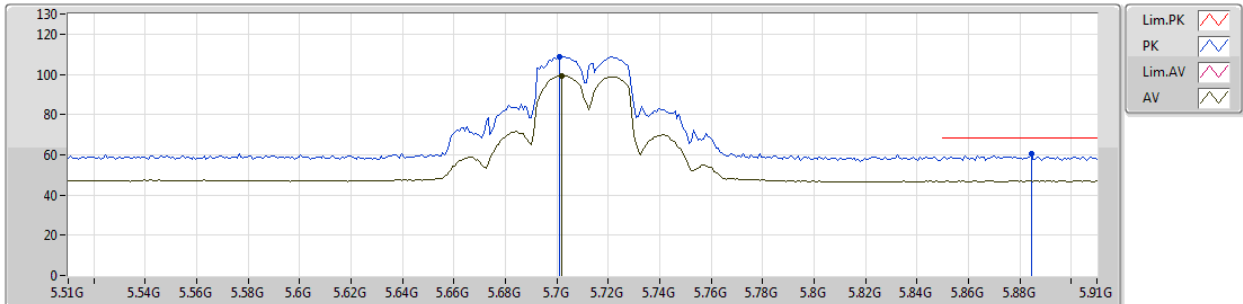
EUT_Y_2TX
Setting 20
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.33974G	61.86	74.00	-12.14	15.24	3	Horizontal	292	1.67	-						
AV	11.33993G	49.29	54.00	-4.71	15.24	3	Horizontal	292	1.67	-						

802.11ac VHT40_Nss1,(MCS0)_2TX

5710MHz Straddle 5.47-5.725GHz_TX

16/01/2019



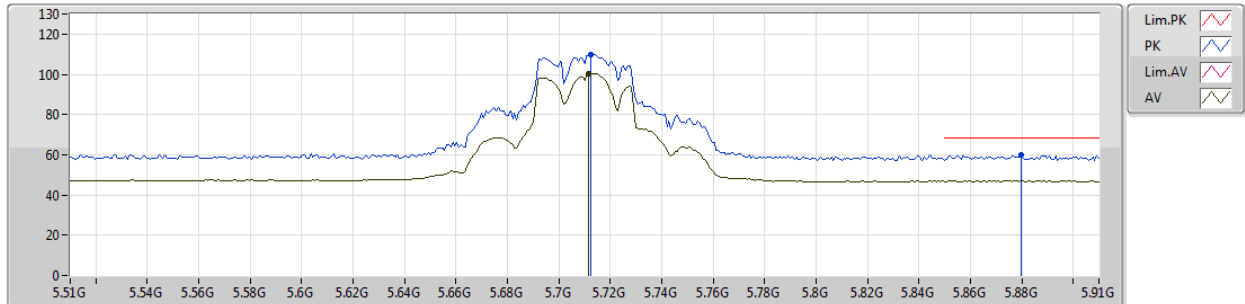
EUT Y_2TX
Setting 20
02-C-5
FSP(100059)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.7012G	108.78	Inf	-Inf	8.77	3	Vertical	26	1.05	-
AV	5.702G	99.24	Inf	-Inf	8.77	3	Vertical	26	1.05	-
PK	5.8844G	60.36	68.20	-7.84	8.86	3	Vertical	26	1.05	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5710MHz Straddle 5.47-5.725GHz_TX

16/01/2019



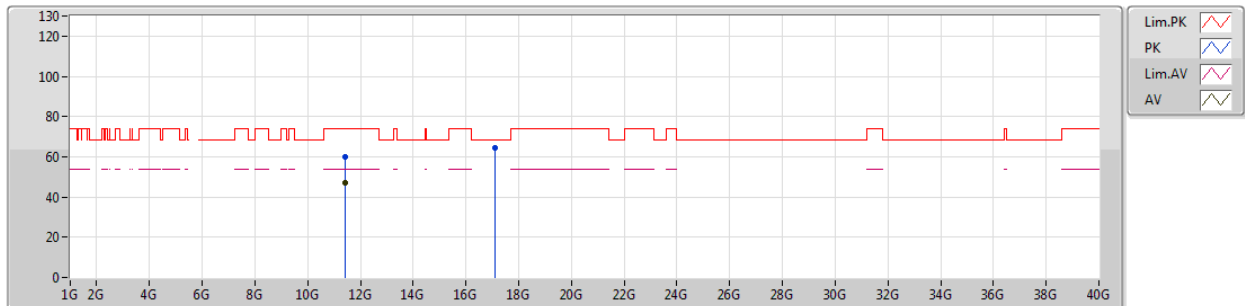
EUT_Y_2TX
Setting 20
02-C-5
FSP(100059)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.7124G	109.95	Inf	-Inf	8.79	3	Horizontal	56	1.32	-
AV	5.7116G	100.51	Inf	-Inf	8.79	3	Horizontal	56	1.32	-
PK	5.8796G	59.85	68.20	-8.35	8.87	3	Horizontal	56	1.32	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5710MHz Straddle 5.47-5.725GHz_TX

16/01/2019



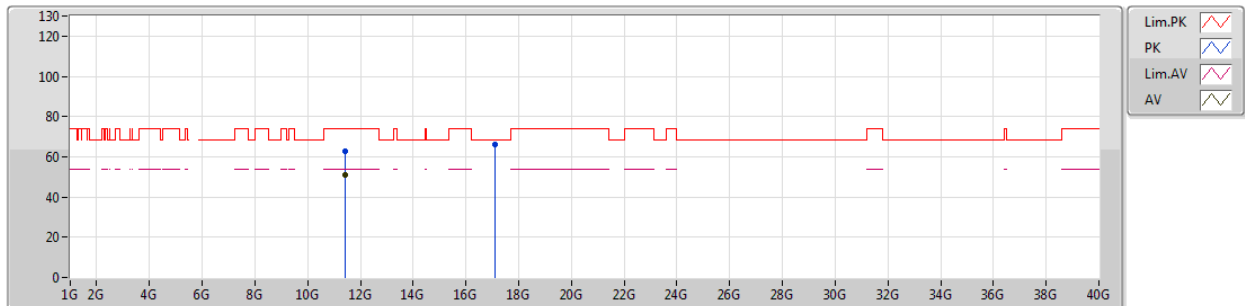
EUT Y_2TX
Setting 20
02-C-5
FSP(100059)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.42088G	60.07	74.00	-13.93	14.84	3	Vertical	331	2.98	-
AV	11.41992G	46.93	54.00	-7.07	14.84	3	Vertical	331	2.98	-
PK	17.11176G	64.21	68.20	-3.99	19.98	3	Vertical	230	2.18	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5710MHz Straddle 5.47-5.725GHz_TX

16/01/2019



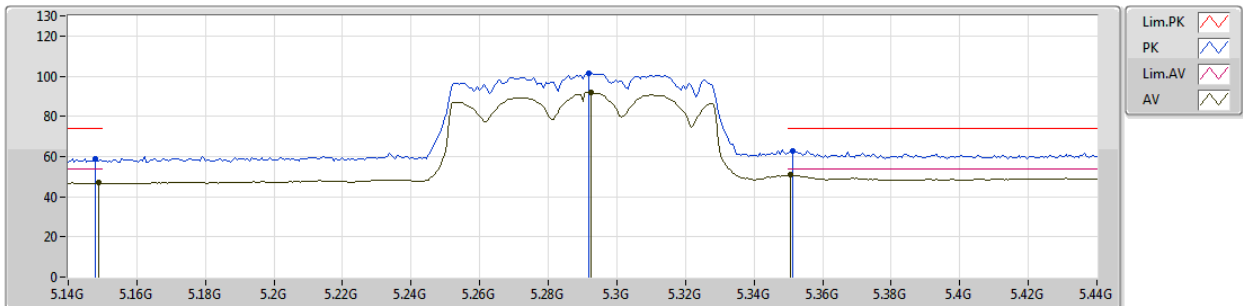
EUT_Y_2TX
Setting 20
02-C-5
FSP(100059)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.42032G	63.01	74.00	-10.99	14.84	3	Horizontal	287	1.67	-						
AV	11.41992G	50.96	54.00	-3.04	14.84	3	Horizontal	287	1.67	-						
PK	17.12456G	66.29	68.20	-1.91	20.06	3	Horizontal	296	2.42	-						

802.11ac VHT80_Nss1,(MCS0)_2TX

03/01/2019

5290MHz_TX



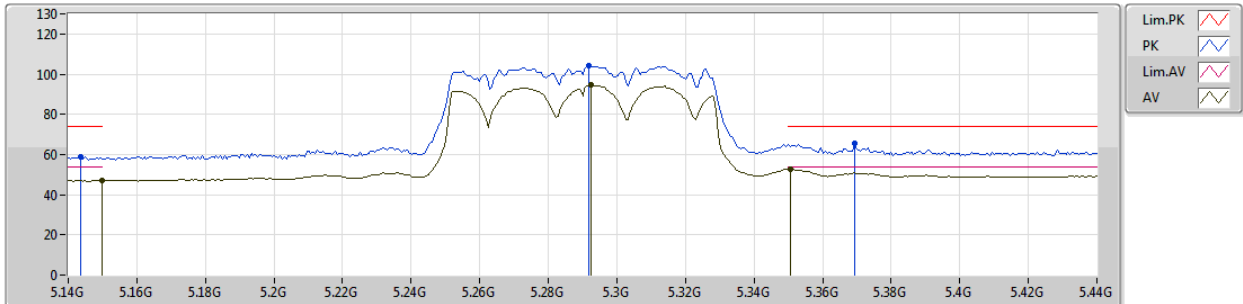
EUT Y_2TX
Setting 16
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1478G	58.78	74.00	-15.22	7.85	3	Vertical	184	2.88	-
AV	5.149G	46.96	54.00	-7.04	7.85	3	Vertical	184	2.88	-
PK	5.2918G	101.63	Inf	-Inf	8.29	3	Vertical	184	2.88	-
AV	5.2924G	91.94	Inf	-Inf	8.29	3	Vertical	184	2.88	-
PK	5.3512G	62.76	74.00	-11.24	8.56	3	Vertical	184	2.88	-
AV	5.3506G	50.83	54.00	-3.17	8.56	3	Vertical	184	2.88	-

802.11ac VHT80_Nss1,(MCS0)_2TX

03/01/2019

5290MHz_TX



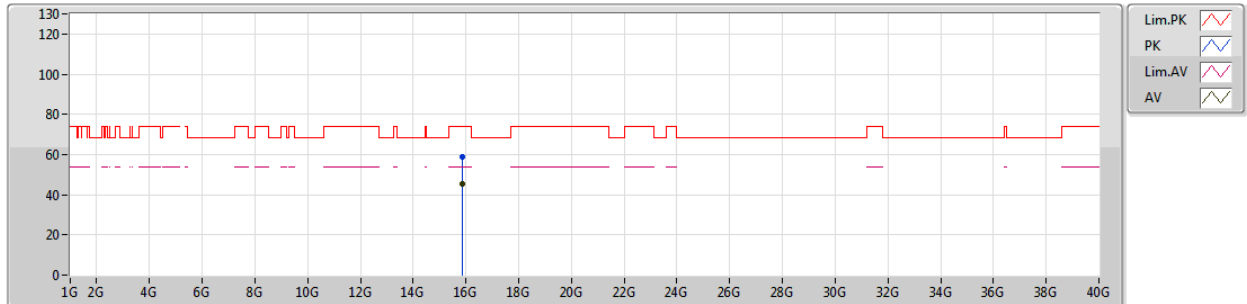
EUT Y_2TX
Setting 16
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1436G	59.01	74.00	-14.99	7.84	3	Horizontal	286	2.93	-
AV	5.15G	47.07	54.00	-6.93	7.85	3	Horizontal	286	2.93	-
PK	5.2918G	104.27	Inf	-Inf	8.29	3	Horizontal	286	2.93	-
AV	5.2924G	94.45	Inf	-Inf	8.29	3	Horizontal	286	2.93	-
PK	5.3692G	65.29	74.00	-8.71	8.65	3	Horizontal	286	2.93	-
AV	5.3506G	52.72	54.00	-1.28	8.56	3	Horizontal	286	2.93	-

802.11ac VHT80_Nss1,(MCS0)_2TX

03/01/2019

5290MHz_TX



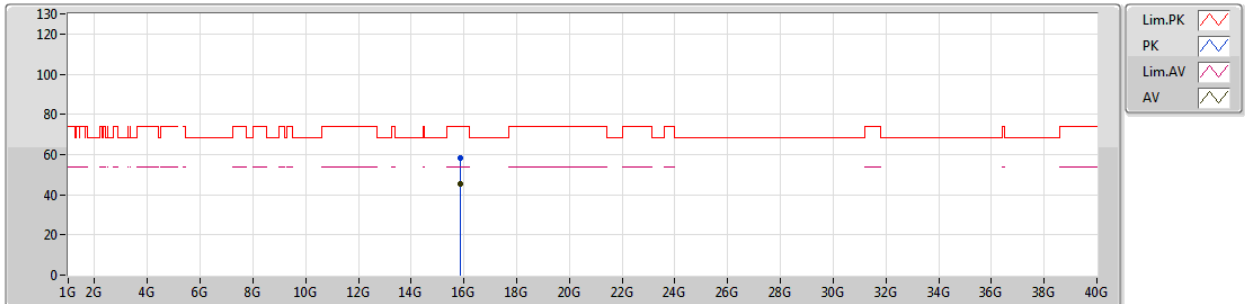
EUT_Y_2TX
Setting 16
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	15.87046G	58.57	74.00	-15.43	15.82	3	Vertical	189	2.20	-						
AV	15.87025G	45.18	54.00	-8.82	15.82	3	Vertical	189	2.20	-						

802.11ac VHT80_Nss1,(MCS0)_2TX

03/01/2019

5290MHz_TX



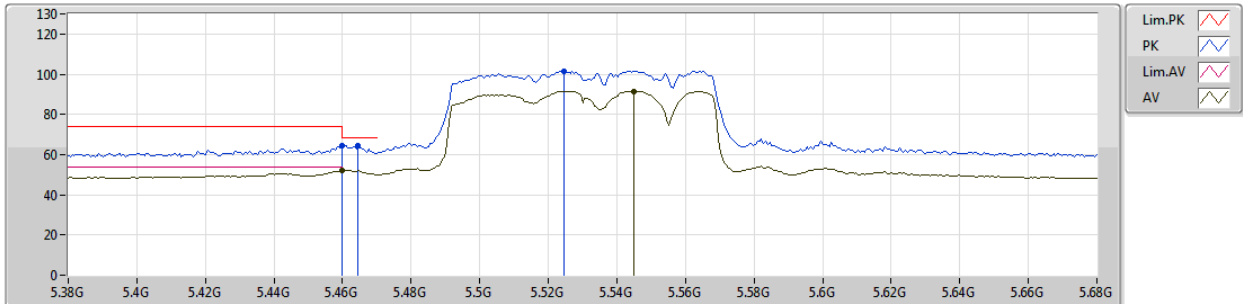
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Setting 16
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments							
PK	15.87097G	58.55	74.00	-15.45	15.82	3	Horizontal	108	1.50	-							
AV	15.87076G	45.40	54.00	-8.60	15.82	3	Horizontal	108	1.50	-							

802.11ac VHT80_Nss1,(MCS0)_2TX

03/01/2019

5530MHz_TX



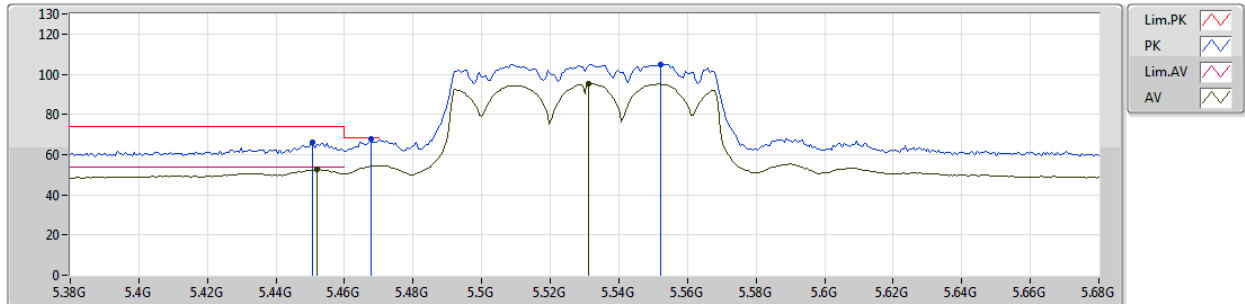
EUT Y_2TX
Setting 17
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments								
PK	5.4598G	64.19	74.00	-9.81	9.02	3	Vertical	322	2.99	-								
AV	5.4598G	52.02	54.00	-1.98	9.02	3	Vertical	322	2.99	-								
PK	5.4646G	64.61	68.20	-3.59	9.04	3	Vertical	322	2.99	-								
PK	5.5246G	101.67	Inf	-Inf	9.21	3	Vertical	322	2.99	-								
AV	5.545G	91.54	Inf	-Inf	9.24	3	Vertical	322	2.99	-								

802.11ac VHT80_Nss1,(MCS0)_2TX

03/01/2019

5530MHz_TX



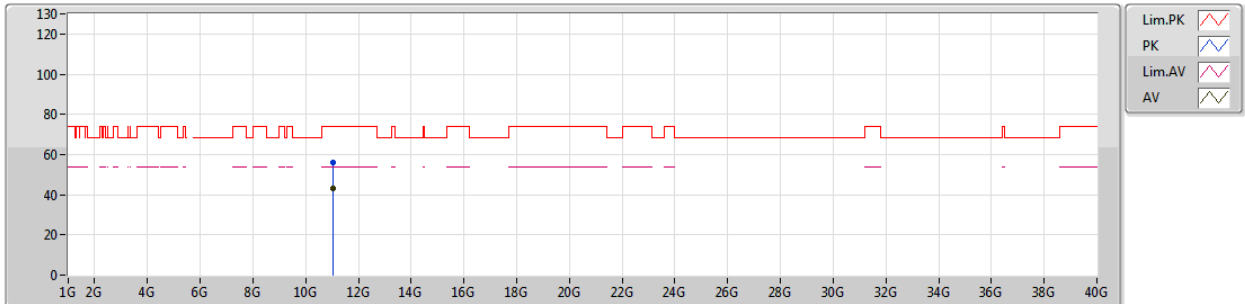
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Setting 17
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.4508G	66.21	74.00	-7.79	8.98	3	Horizontal	295	2.96	-
AV	5.452G	52.56	54.00	-1.44	8.99	3	Horizontal	295	2.96	-
PK	5.4676G	67.59	68.20	-0.61	9.05	3	Horizontal	295	2.96	-
PK	5.5522G	104.91	Inf	-Inf	9.24	3	Horizontal	295	2.96	-
AV	5.5312G	95.00	Inf	-Inf	9.21	3	Horizontal	295	2.96	-

802.11ac VHT80_Nss1,(MCS0)_2TX

03/01/2019

5530MHz_TX



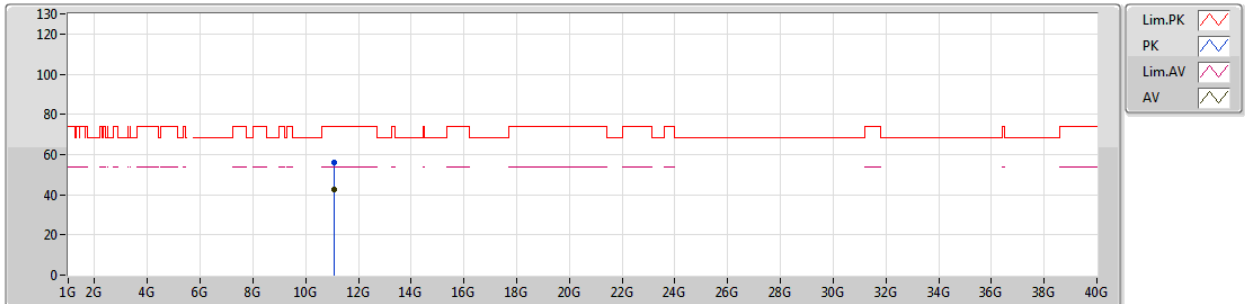
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Setting 17
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.0591G	56.02	74.00	-17.98	15.33	3	Vertical	23	2.98	-						
AV	11.05813G	43.11	54.00	-10.89	15.33	3	Vertical	23	2.98	-						

802.11ac VHT80_Nss1,(MCS0)_2TX

03/01/2019

5530MHz_TX



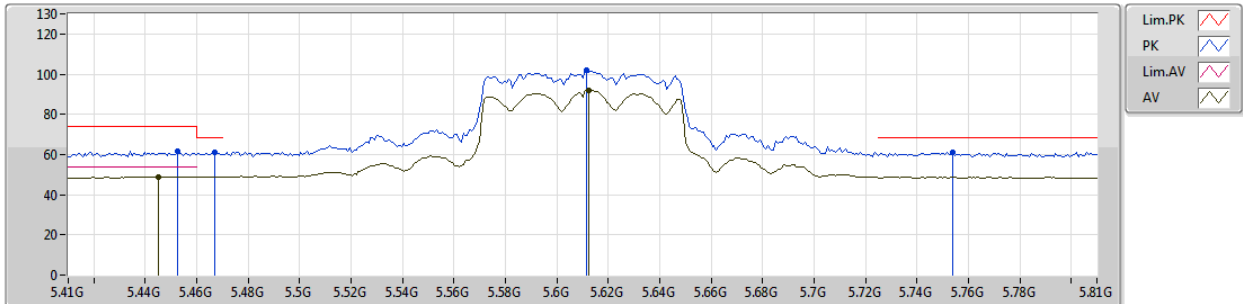
EUT Y_2TX
Setting 17
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.06138G	55.99	74.00	-18.01	15.33	3	Horizontal	88	2.47	-						
AV	11.05983G	42.70	54.00	-11.30	15.33	3	Horizontal	88	2.47	-						

802.11ac VHT80_Nss1,(MCS0)_2TX

03/01/2019

5610MHz_TX



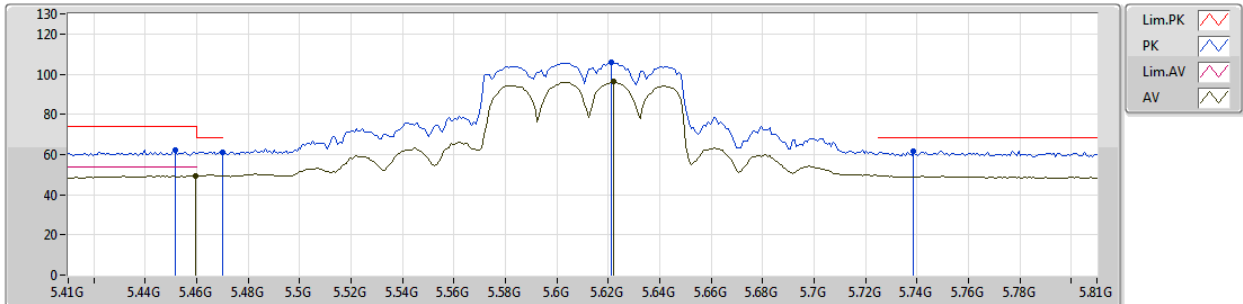
EUT Y_2TX
Setting 20
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.4524G	61.53	74.00	-12.47	8.99	3	Vertical	308	1.48	-
AV	5.4452G	49.00	54.00	-5.00	8.96	3	Vertical	308	1.48	-
PK	5.4668G	61.18	68.20	-7.02	9.05	3	Vertical	308	1.48	-
PK	5.6116G	102.06	Inf	-Inf	9.32	3	Vertical	308	1.48	-
AV	5.6124G	92.04	Inf	-Inf	9.32	3	Vertical	308	1.48	-
PK	5.754G	61.21	68.20	-6.99	9.37	3	Vertical	308	1.48	-

802.11ac VHT80_Nss1,(MCS0)_2TX

03/01/2019

5610MHz_TX



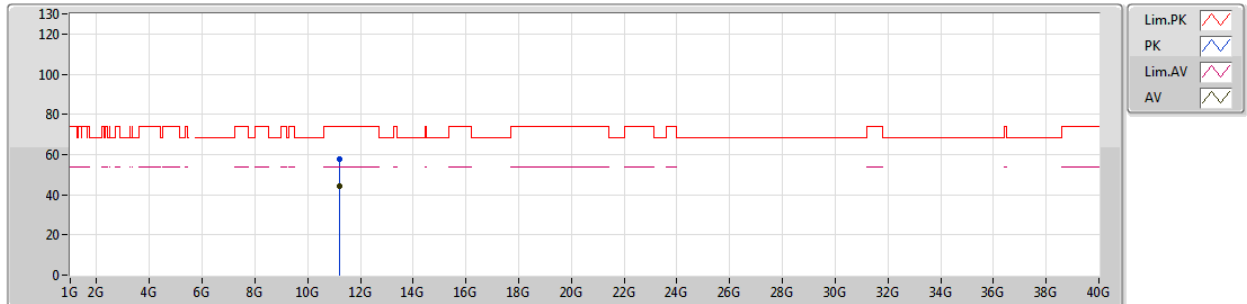
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Setting 20
04-B-1-10
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.4516G	62.42	74.00	-11.58	8.99	3	Horizontal	62	2.99	-
AV	5.4596G	49.51	54.00	-4.49	9.02	3	Horizontal	62	2.99	-
PK	5.47G	61.32	68.20	-6.88	9.06	3	Horizontal	62	2.99	-
PK	5.6212G	105.98	Inf	-Inf	9.32	3	Horizontal	62	2.99	-
AV	5.622G	96.30	Inf	-Inf	9.32	3	Horizontal	62	2.99	-
PK	5.7388G	61.76	68.20	-6.44	9.36	3	Horizontal	62	2.99	-

802.11ac VHT80_Nss1,(MCS0)_2TX

03/01/2019

5610MHz_TX



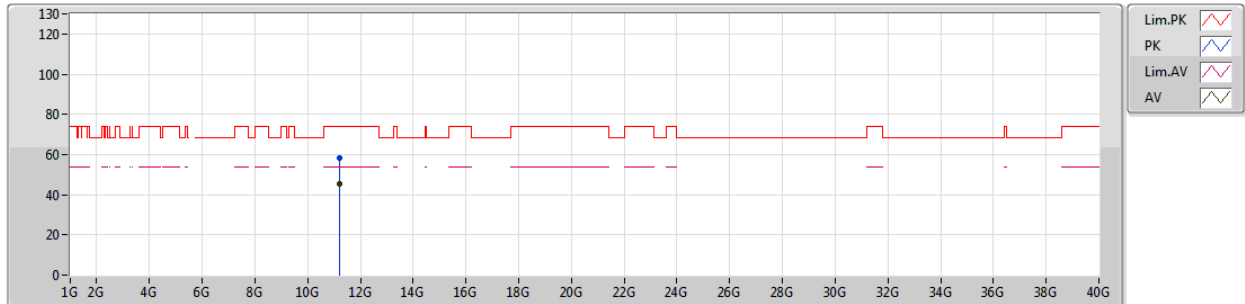
EUT_Y_2TX
Setting 20
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments							
PK	11.2188G	57.83	74.00	-16.17	15.28	3	Vertical	29	2.34	-							
AV	11.21938G	44.34	54.00	-9.66	15.28	3	Vertical	29	2.34	-							

802.11ac VHT80_Nss1,(MCS0)_2TX

03/01/2019

5610MHz_TX



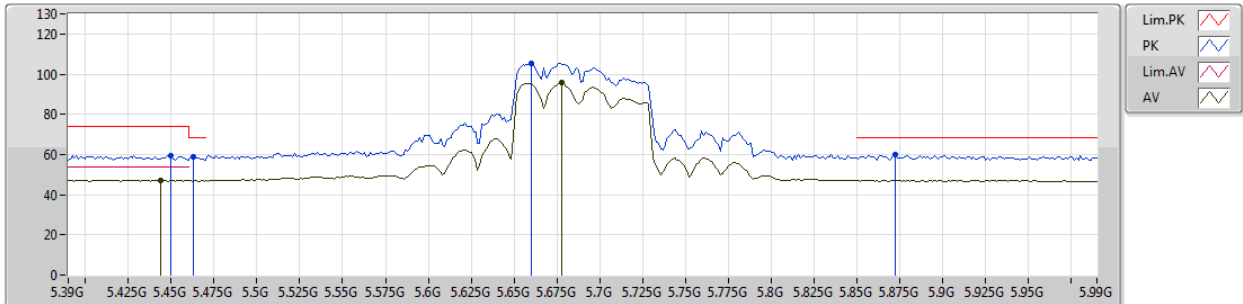
EUT_Y_2TX
Setting 20
04-B-1
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.21985G	58.35	74.00	-15.65	15.28	3	Horizontal	297	2.22	-						
AV	11.21989G	45.34	54.00	-8.66	15.28	3	Horizontal	297	2.22	-						

802.11ac VHT80_Nss1,(MCS0)_2TX

16/01/2019

5690MHz Straddle 5.47-5.725GHz_TX



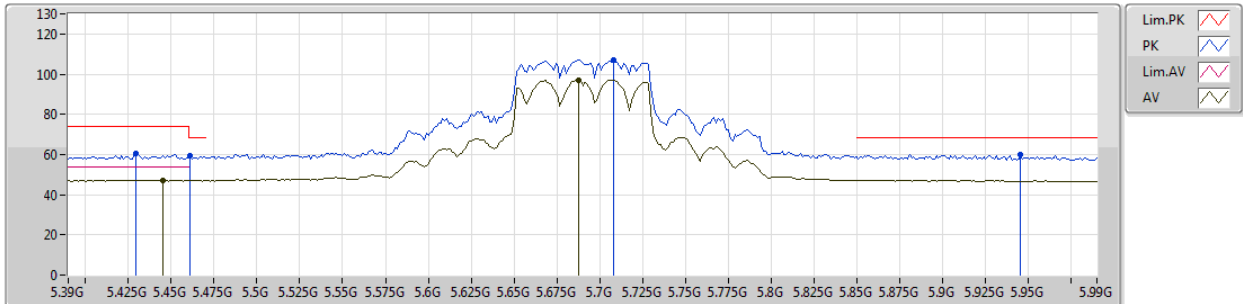
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Setting 20
02-C-5-10
FSP(100059)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.45G	59.50	74.00	-14.50	8.54	3	Vertical	4	2.90	-
AV	5.444G	47.17	54.00	-6.83	8.52	3	Vertical	4	2.90	-
PK	5.4632G	58.83	68.20	-9.37	8.55	3	Vertical	4	2.90	-
PK	5.66G	105.17	Inf	-Inf	8.71	3	Vertical	4	2.90	-
AV	5.678G	95.75	Inf	-Inf	8.75	3	Vertical	4	2.90	-
PK	5.8724G	59.71	68.20	-8.49	8.86	3	Vertical	4	2.90	-

802.11ac VHT80_Nss1,(MCS0)_2TX

16/01/2019

5690MHz Straddle 5.47-5.725GHz_TX



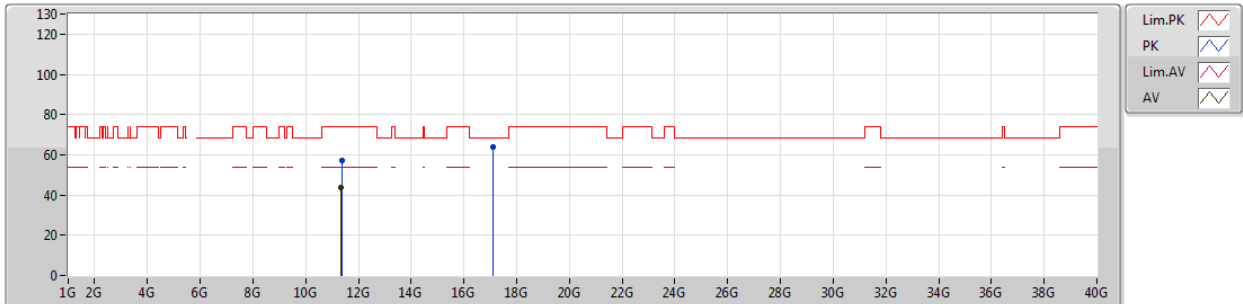
EUT Y_2TX
Setting 20
02-C-5-10
FSP(100059)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.4296G	60.29	74.00	-13.71	8.50	3	Horizontal	30	1.01	-
AV	5.4452G	47.24	54.00	-6.76	8.52	3	Horizontal	30	1.01	-
PK	5.4608G	59.53	68.20	-8.67	8.55	3	Horizontal	30	1.01	-
PK	5.708G	106.98	Inf	-Inf	8.78	3	Horizontal	30	1.01	-
AV	5.6876G	97.10	Inf	-Inf	8.75	3	Horizontal	30	1.01	-
PK	5.9456G	60.06	68.20	-8.14	8.86	3	Horizontal	30	1.01	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5690MHz Straddle 5.47-5.725GHz_TX

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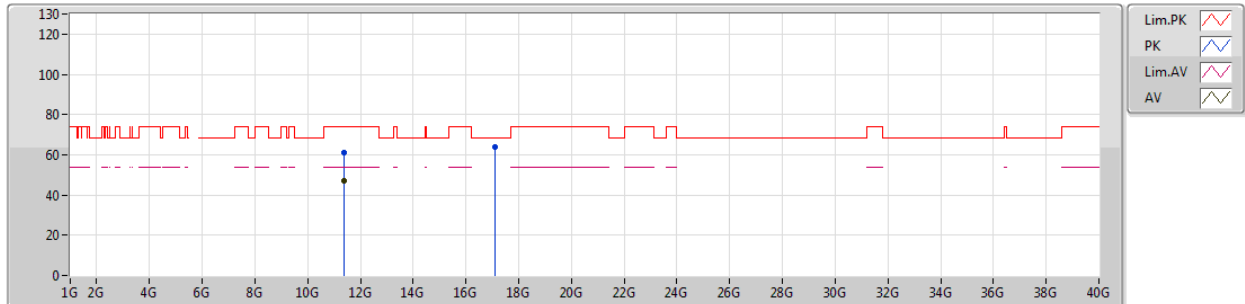
EUT Y_2TX
Setting 20
02-C-5-10
FSP(100059)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.38736G	57.14	74.00	-16.86	14.80	3	Vertical	345	1.01	-						
AV	11.35216G	43.58	54.00	-10.42	14.76	3	Vertical	345	1.01	-						
PK	17.10808G	64.02	68.20	-4.18	19.96	3	Vertical	257	1.29	-						

802.11ac VHT80_Nss1,(MCS0)_2TX

16/01/2019

5690MHz Straddle 5.47-5.725GHz_TX



EUT Y_2TX
Setting 20
02-C-5-10
FSP(100059)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments						
PK	11.359G	61.03	74.00	-12.97	14.76	3	Horizontal	283	1.64	-						
AV	11.3592G	47.21	54.00	-6.79	14.76	3	Horizontal	283	1.64	-						
PK	17.08664G	63.87	68.20	-4.33	19.83	3	Horizontal	235	1.27	-						