FCC Test Report

Equipment	:	Home Wi-Fi Solution Kit
Brand Name	:	AirTies
Model No.	:	Air 4930
FCC ID	:	Z3WAIR4930
Standard	:	47 CFR FCC Part 15.407
Operating Band	:	5250 MHz – 5350 MHz 5470 MHz – 5725 MHz
Applicant	:	AirTies Wireless Networks Mithat Uluunlu Sokak No. 23 Esentepe, Sisli Istanbul, 34394 Turkey
Manufacturer	:	AirTies Wireless Networks Mithat Uluunlu Sokak No. 23 Esentepe, Sisli Istanbul, 34394 Turkey
Function	:	☐ Outdoor; ☒ Indoor; ☐ Fixed P2P ☐ Client
TPC Function	:	☒ With TPC ☐ Without TPC

The product sample received on Sep. 29, 2017 and completely tested on Feb. 22, 2018. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Cliff Chang
SPORTON INTERNATIONAL INC.

Testing Laboratory
1190

Table of Contents

Summary of Test Result

Conformance Test Specifications			
Report Clause	**Ref. Std. Clause**	**Description**	**Result**
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.407(a)	Emission Bandwidth	Complied
3.2	15.407(a)	Maximum Conducted Output Power	Complied
3.3	15.407(a)	Peak Power Spectral Density	Complied
3.4	15.407(b)	Unwanted Emissions	Complied
3.5	15.407(g)	Frequency Stability	Complied

Revision History

Report No.	Version	Description	Issued Date
FR792934-01	Rev. 01	Initial issue of report	Mar. 09, 2018

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20)	5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [9]
5250-5350	n (HT40), ac (VHT40)	5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [4]
5250-5350	ac (VHT80)	5290	58 [1]
5470-5725		5530-5690	106-138 [2]

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	4TX
5.25-5.35GHz	802.11n HT20	20	4TX
5.25-5.35GHz	802.11n HT20-BF	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT20-BF	20	4TX
5.25-5.35GHz	802.11n HT40	40	4TX
5.25-5.35GHz	802.11n HT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.25-5.35GHz	802.11ac VHT80-BF	80	4TX
5.47-5.725GHz	802.11a	20	4TX
5.47-5.725GHz	802.11n HT20	20	4TX
5.47-5.725GHz	802.11n HT20-BF	20	4TX
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20-BF	20	4TX
5.47-5.725GHz	802.11n HT40	40	4TX
5.47-5.725GHz	802.11n HT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80-BF	80	4TX

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.	Brand	Model No.	Type	Connector	Gain (dBi)					Remark	
					2.4GHz	5GHz Band 1	5GHz Band 2	5GHz Band 3	5GHz Band 4	2.4GHz	5GHz
1	Airties	Airties#1	Printed	N/A	1.7	1.5	2.3	1.9	3	Port 1	Port 1
2	Airties	Airties#1	Printed	N/A	-	1.5	2.3	1.9	3	-	Port 2
3	Airties	Airties#1	Printed	N/A	-	1.5	2.3	1.9	3	-	Port 3
4	Airties	Airties#1	Printed	N/A	1.7	1.5	2.3	1.9	3	Port 2	Port 4

Note: 1. The EUT has four antennas.

2. For WLAN 2.4GHz:

For IEEE 802.11b/g mode (1TX/1RX):

Only Ant. 1(Port 1) can be used as transmitting/receiving antenna.

For IEEE 802.11n mode (2TX/2RX):

Ant. 1(Port 1) and Ant. 4(Port 4)can be used as transmitting/receiving antenna.

Ant. 1(Port 1) and Ant. 4(Port 4)could transmit/receive simultaneously.

3. For WLAN 5GHz:

For IEEE 802.11a/n/ac mode (4TX/4RX):

Ant. 1(Port 1), Ant. 2(Port 2), Ant. 3(Port 3) and Ant. 4(Port 4)can be used as transmitting/receiving antenna.

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

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.957	0.191	2.058m	1k
802.11ac VHT20-BF	0.948	0.232	1.921m	1k
802.11ac VHT40-BF	0.936	0.287	937.5u	3k
802.11ac VHT80-BF	0.865	0.63	445u	3k

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming for IEEE 802.11 n/ac in 5GHz	☐	Without beamforming
Weather Band	☐	With 5600~5650MHz	☒	Without 5600~5650MHz
Test Software Version	Mtool_3.0.0.2			

Note: This device supports AP and Mesh mode.

1.1.5 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR792934AB

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

Description	Performance Checking
Adding 5 GHz Band 2 and Band3 (5250~5350 MHz, 5470~5725 MHz)	1. Emission Bandwidth 2. Maximum Conducted Output Power 3. Spectral Density 4. Unwanted Emissions 5. Frequency Stability

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

1.3 Testing Location Information

Testing Location			
☐	HWA YA	ADD :	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
		TEL :	886-3-327-3456 FAX : 886-3-318-0055
☒	JHUBEI	ADD :	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
		TEL :	886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Brian Sun	20°C / 56%	Feb. 13, 2018
Radiated	03CH01-CB	Justin Lin	22°C / 54%	Feb. 09, 2018~Feb. 22, 2018

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	9.74×10^{-8}	Confidence levels of 95%
Frequency Stability	6.06×10^{-8}	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	63
5300MHz	63
5320MHz	63
5500MHz	65
5580MHz	65
5700MHz	60
5720MHz Straddle 5.47-5.725GHz	61
5720MHz Straddle 5.725-5.85GHz	61
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5260MHz	62
5300MHz	62
5320MHz	62
5500MHz	64
5580MHz	64
5700MHz	59
5720MHz Straddle 5.47-5.725GHz	60
5720MHz Straddle 5.725-5.85GHz	60
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5270MHz	63
5310MHz	63
5510MHz	66
5550MHz	65
5670MHz	60
5710MHz Straddle 5.47-5.725GHz	62
5710MHz Straddle 5.725-5.85GHz	62
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5290MHz	64
5530MHz	64
5690MHz Straddle 5.47-5.725GHz	62
5690MHz Straddle 5.725-5.85GHz	62

Note:
- VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- There are two modes of EUT, one is beamforming mode, and the other is non-beamforming mode for 802.11n/ac in 5GHz. Only the beamforming mode had been tested and recorded in this test report.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density Frequency Stability
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 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.: FA792934-01 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used at standing position.

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

During the test, the following programs under WIN XP were executed.
The program was executed as follows:
1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under telnet.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

2.4 Accessories

Accessories				
No.	**Equipment Name**	**Brand Name**	**Model Name**	**Rating**
1	Adapter	MOSO	MSA-C1000CS12.0-12A-US	INPUT: 100-240V, 50/60Hz 0.5A max OUTPUT: 12V, 1A

2.5 Support Equipment

For Test Site No: 03CH01-CB
Non-Beamforming Mode

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

Beamforming Mode

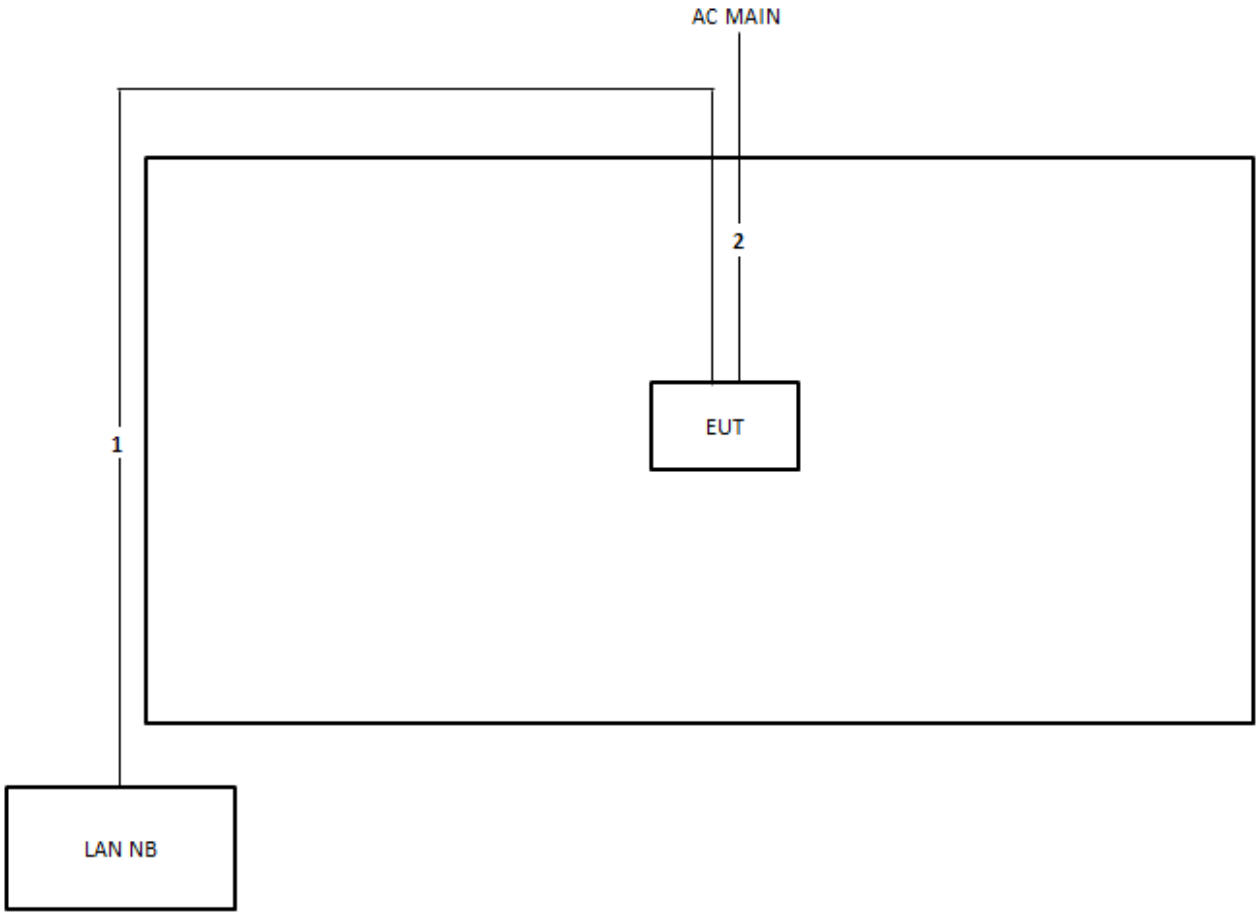
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB	DELL	E4300	DoC
2	RX Device	ASUS	PCE-88U	MSQ-PCIE0U00
3	PC	DELL	T3400	DoC

For Test Site No: TH01-CB

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB*2	DELL	E4300	DoC
2	WLAN module (RX Device)	Broadcom	BCM943162ZP	QDS-BRCM1075

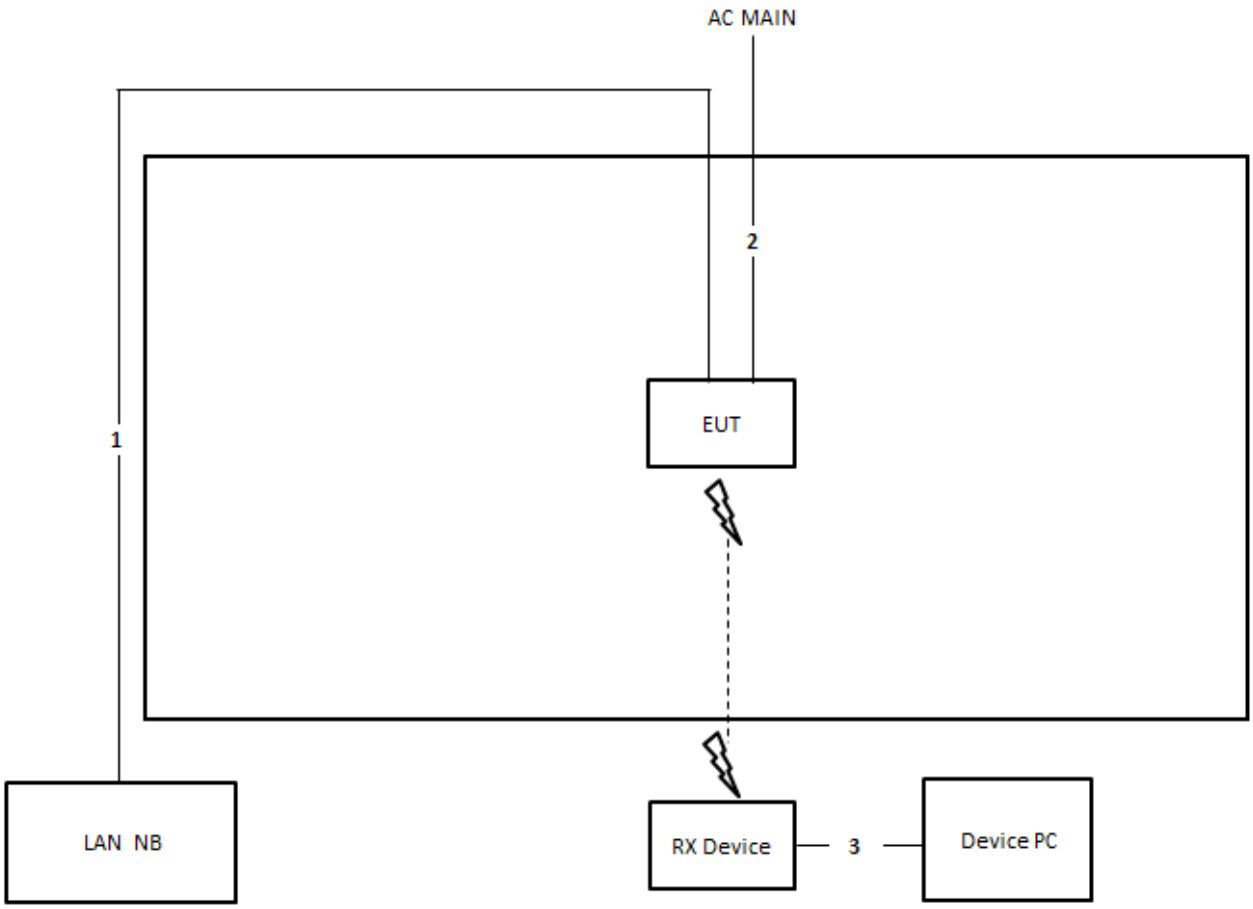
2.6 Test Setup Diagram

Test Setup Diagram - Radiated Test
Non-Beamforming Mode



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

Test Setup Diagram - Radiated Test
Beamforming Mode



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

3 Transmitter Test Result

3.1 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 ≥ 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 ≥ 500kHz.

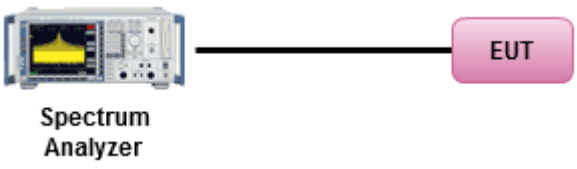
3.1.2 Measuring Instruments

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

Emission Bandwidth


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

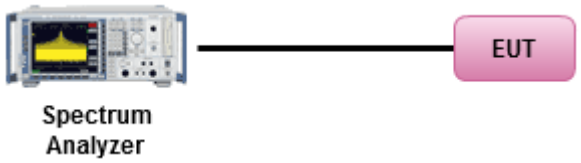
Refer a test equipment and calibration data table in this test report.

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).
	☐ 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 conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.2.4 Test Setup

For Straddle Channel Test:

RF Output Power (Spectrum Analyzer)


For Other Test:

RF Output Power (Power Meter)


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 peak power spectral density (PPSD) ≤ 4 dBm/MHz and 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 and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 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° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40° -35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45°
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 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.

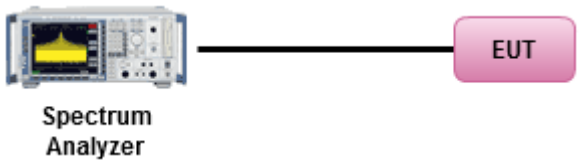
3.3.2 Measuring Instruments

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: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.3.4 Test Setup

Power Spectral Density


3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 Transmitter Radiated 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

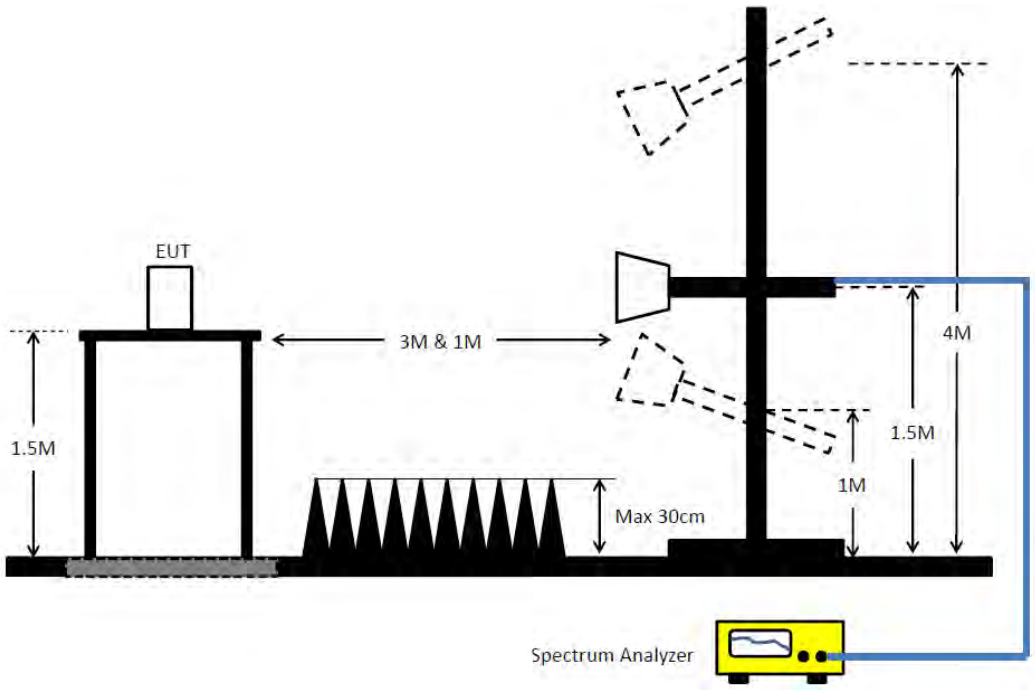
Refer a test equipment and calibration data table in this test report.

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 ≥ 98 or duty factor].		
▪ For the transmitter unwanted emissions shall be measured using following options below:		
	▪ Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.	
	▪ Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.	
		☐ Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
		☒ Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
		☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
		☒ Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
		☐ Refer as ANSI C63.10, clause 4.2.3.2.2 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

Transmitter Radiated Unwanted Emissions
Above 1GHz



3.4.5 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D

3.5 Frequency Stability

3.5.1 Frequency Stability Limit

Frequency Stability Limit
UNII Devices
▪ In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
LE-LAN Devices
▪ N/A
IEEE Std. 802.11
▪ The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

3.5.2 Measuring Instruments

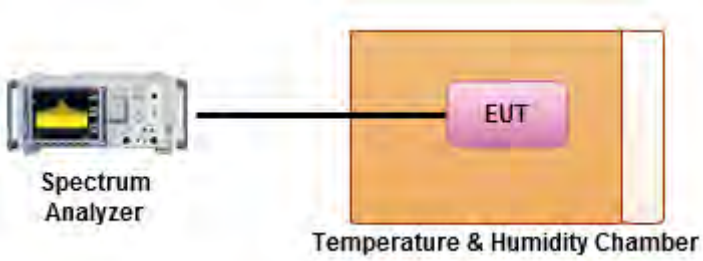
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
▪ Refer as ANSI C63.10, clause 6.8 for frequency stability tests	
	▪ Frequency stability with respect to ambient temperature
	▪ Frequency stability when varying supply voltage
	▪ Extreme temperature is 0℃~40℃.

3.5.4 Test Setup

Frequency Stability



3.5.5 Test Result of Frequency Stability

Refer as Appendix E

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. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 09, 2018	Jan. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-l0-7	N/A	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2017	Jun. 01, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	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)_4TX	21.65M	16.617M	16M6D1D	21.325M	16.542M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.95M	17.791M	17M8D1D	21.5M	17.716M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.5M	36.332M	36M3D1D	39.65M	36.232M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	82.2M	75.862M	75M9D1D	81.4M	75.662M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.625M	16.667M	16M7D1D	15.615M	13.283M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.925M	17.816M	17M8D1D	15.645M	13.838M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.35M	36.332M	36M3D1D	34.93M	32.989M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	82.1M	75.962M	76M0D1D	75.45M	72.414M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.16M	3.998M	4M00D1D	3.16M	3.898M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	3.82M	4.318M	4M32D1D	3.78M	4.198M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	3.16M	3.558M	3M56D1D	3.14M	3.518M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	3.16M	3.718M	3M72D1D	3.14M	3.658M

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)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.65M	16.617M	21.525M	16.542M	21.35M	16.617M	21.4M	16.542M
5300MHz	Pass	Inf	21.55M	16.567M	21.375M	16.592M	21.325M	16.592M	21.45M	16.542M
5320MHz	Pass	Inf	21.65M	16.592M	21.65M	16.542M	21.575M	16.567M	21.4M	16.617M
5500MHz	Pass	Inf	21.625M	16.592M	21.45M	16.517M	21.425M	16.567M	21.375M	16.542M
5580MHz	Pass	Inf	21.45M	16.667M	21.45M	16.567M	21.525M	16.542M	21.3M	16.567M
5700MHz	Pass	Inf	21.625M	16.617M	21.5M	16.567M	21.5M	16.542M	21.35M	16.617M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.735M	13.283M	15.63M	13.298M	15.615M	13.283M	15.615M	13.283M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	3.958M	3.16M	3.998M	3.16M	3.958M	3.16M	3.898M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.75M	17.766M	21.625M	17.791M	21.675M	17.791M	21.65M	17.741M
5300MHz	Pass	Inf	21.95M	17.741M	21.55M	17.741M	21.65M	17.741M	21.5M	17.741M
5320MHz	Pass	Inf	21.85M	17.791M	21.7M	17.716M	21.575M	17.741M	21.625M	17.741M
5500MHz	Pass	Inf	21.825M	17.816M	21.5M	17.716M	21.525M	17.741M	21.45M	17.791M
5580MHz	Pass	Inf	21.775M	17.741M	21.525M	17.741M	21.325M	17.691M	21.55M	17.741M
5700MHz	Pass	Inf	21.925M	17.716M	21.425M	17.716M	21.675M	17.741M	21.525M	17.741M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.795M	13.838M	15.645M	13.898M	15.705M	13.883M	15.84M	13.883M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.8M	4.198M	3.78M	4.258M	3.78M	4.218M	3.82M	4.318M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.5M	36.282M	39.8M	36.232M	39.7M	36.282M	39.9M	36.232M
5310MHz	Pass	Inf	40.2M	36.232M	39.65M	36.282M	39.65M	36.332M	40.05M	36.232M
5510MHz	Pass	Inf	40.35M	36.232M	39.7M	36.232M	39.65M	36.332M	39.85M	36.282M
5550MHz	Pass	Inf	40.2M	36.232M	39.8M	36.332M	39.7M	36.232M	39.8M	36.182M
5670MHz	Pass	Inf	40.35M	36.282M	39.9M	36.232M	39.75M	36.182M	39.8M	36.282M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.98M	32.989M	34.93M	33.023M	34.93M	33.023M	35.735M	33.023M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.538M	3.16M	3.518M	3.16M	3.538M	3.16M	3.558M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	82.2M	75.862M	81.5M	75.762M	81.6M	75.662M	81.4M	75.862M
5530MHz	Pass	Inf	81.7M	75.762M	82.1M	75.862M	81.7M	75.862M	81.5M	75.962M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.125M	72.414M	75.825M	72.564M	75.45M	72.714M	75.975M	72.489M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.718M	3.16M	3.718M	3.16M	3.658M	3.14M	3.678M

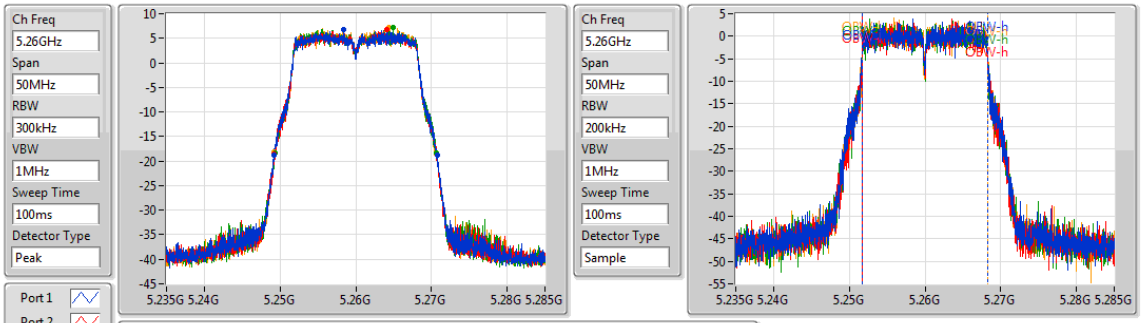
Port X-N dB = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port **X** 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5260MHz

13/02/2018



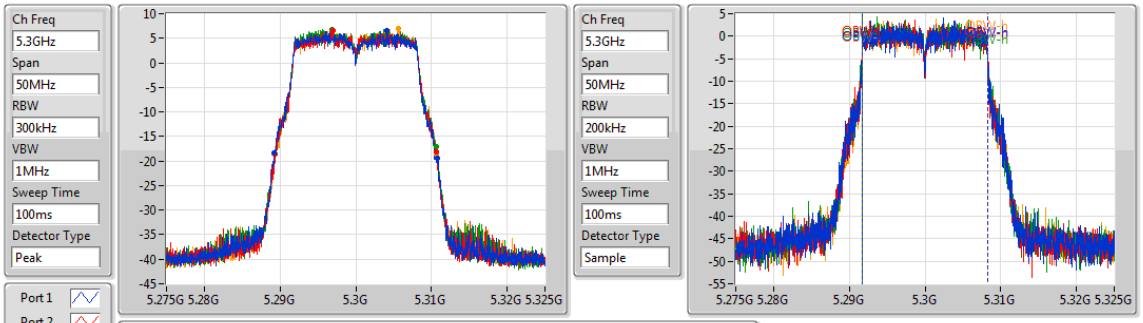
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.65M	5.24915G	5.2708G	16.617M	5.251654G	5.268271G	Inf	1
21.525M	5.2492G	5.270725G	16.542M	5.251729G	5.268271G	Inf	2
21.35M	5.249325G	5.270675G	16.617M	5.251654G	5.268271G	Inf	3
21.4M	5.249275G	5.270675G	16.542M	5.251704G	5.268246G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5300MHz

13/02/2018



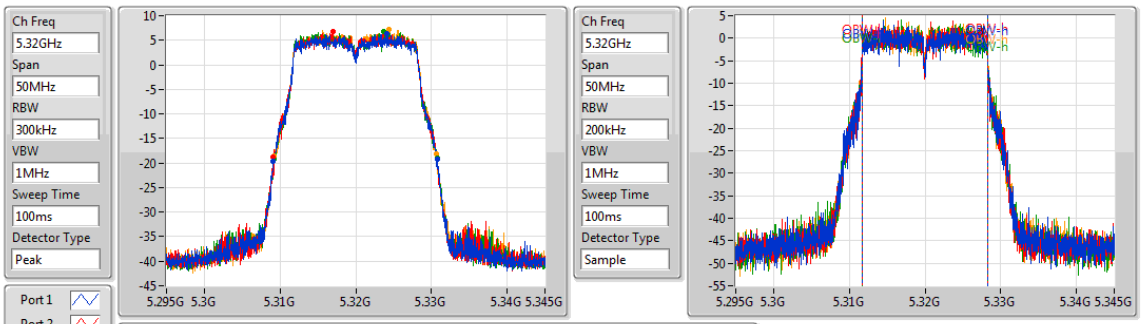
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.55M	5.289275G	5.310825G	16.567M	5.291704G	5.308271G	Inf	1
21.375M	5.289325G	5.3107G	16.592M	5.291679G	5.308271G	Inf	2
21.325M	5.289275G	5.3106G	16.592M	5.291679G	5.308271G	Inf	3
21.45M	5.28925G	5.3107G	16.542M	5.291704G	5.308246G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5320MHz

13/02/2018



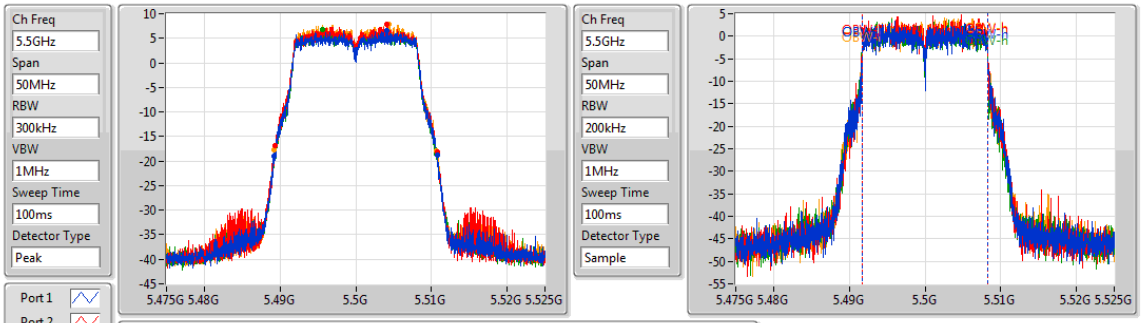
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.65M	5.309125G	5.330775G	16.592M	5.311679G	5.328271G	Inf	1
21.65M	5.309125G	5.330775G	16.542M	5.311704G	5.328246G	Inf	2
21.575M	5.30925G	5.330825G	16.567M	5.311704G	5.328271G	Inf	3
21.4M	5.30925G	5.33065G	16.617M	5.311679G	5.328296G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5500MHz

13/02/2018



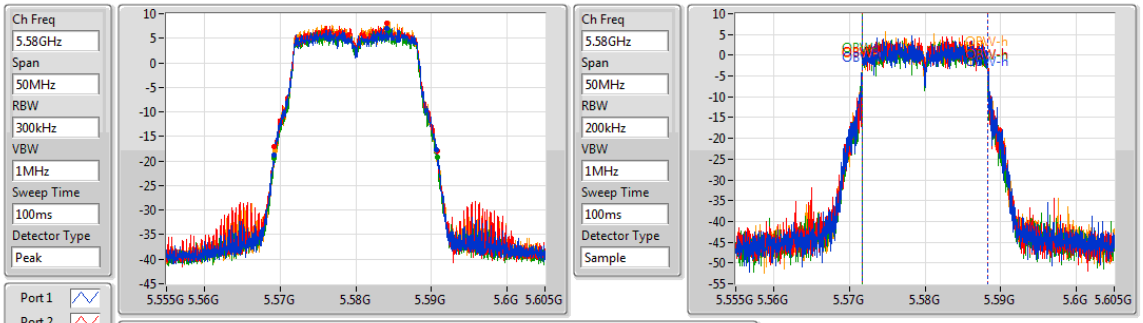
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.625M	5.489175G	5.5108G	16.592M	5.491704G	5.508296G	Inf	1
21.45M	5.489325G	5.510775G	16.517M	5.491754G	5.508271G	Inf	2
21.425M	5.48925G	5.510675G	16.567M	5.491679G	5.508246G	Inf	3
21.375M	5.489275G	5.51065G	16.542M	5.491729G	5.508271G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5580MHz

13/02/2018



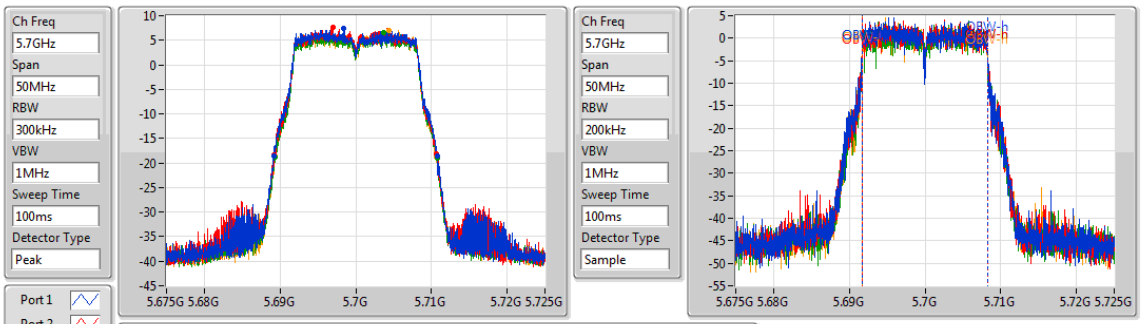
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.45M	5.569225G	5.590675G	16.667M	5.571654G	5.588321G	Inf	1
21.45M	5.569275G	5.590725G	16.567M	5.571729G	5.588296G	Inf	2
21.525M	5.56925G	5.590775G	16.542M	5.571704G	5.588246G	Inf	3
21.3M	5.5693G	5.5906G	16.567M	5.571704G	5.588271G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5700MHz

13/02/2018



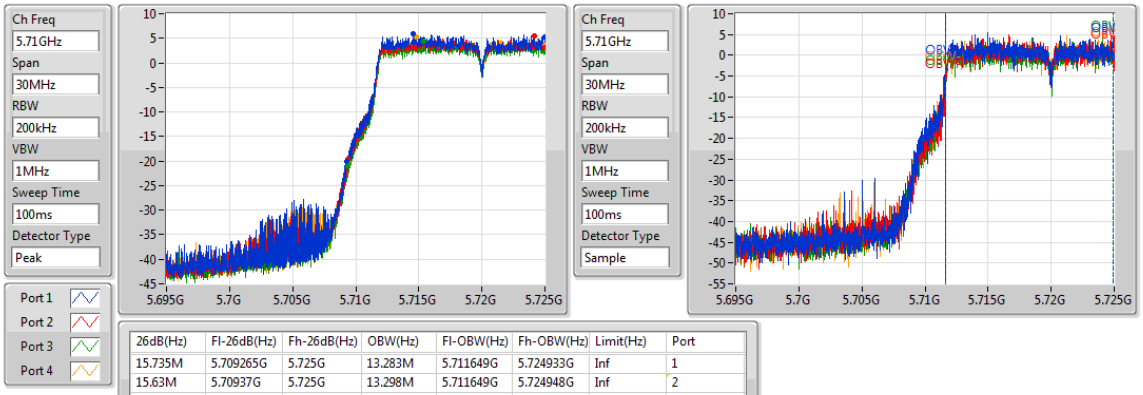
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.625M	5.68915G	5.710775G	16.617M	5.691679G	5.708296G	Inf	1
21.5M	5.68915G	5.71065G	16.567M	5.691704G	5.708271G	Inf	2
21.5M	5.6893G	5.7108G	16.542M	5.691704G	5.708246G	Inf	3
21.35M	5.6893G	5.71065G	16.617M	5.691679G	5.708296G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

13/02/2018



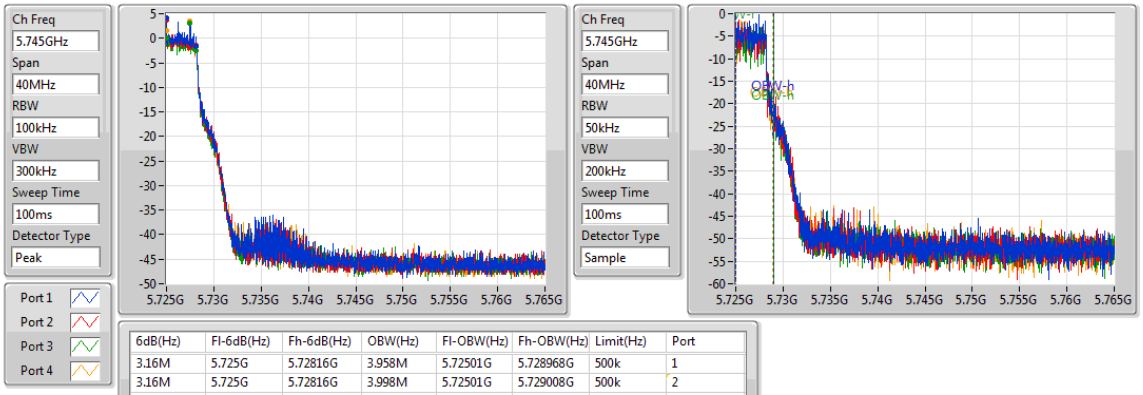
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.735M	5.709265G	5.725G	13.283M	5.711649G	5.724933G	Inf	1
15.63M	5.70937G	5.725G	13.298M	5.711649G	5.724948G	Inf	2
15.615M	5.709385G	5.725G	13.283M	5.711664G	5.724948G	Inf	3
15.615M	5.709385G	5.725G	13.283M	5.711634G	5.724918G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

13/02/2018



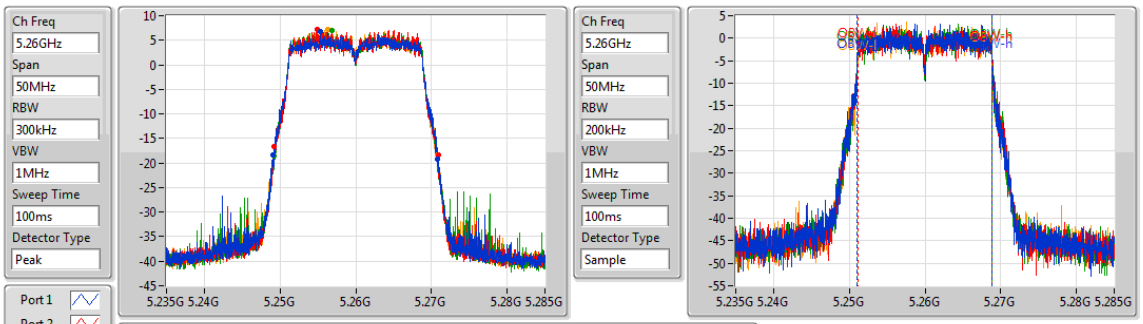
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.16M	5.725G	5.72816G	3.958M	5.72501G	5.728968G	500k	1
3.16M	5.725G	5.72816G	3.998M	5.72501G	5.729008G	500k	2
3.16M	5.725G	5.72816G	3.958M	5.72501G	5.728968G	500k	3
3.16M	5.725G	5.72816G	3.898M	5.72501G	5.728908G	500k	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5260MHz

13/02/2018

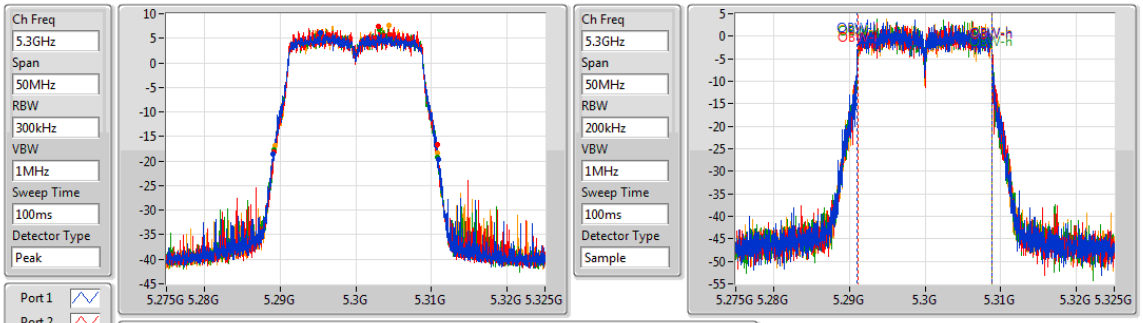


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.249025G	5.270775G	17.766M	5.251079G	5.268846G	Inf	1
21.625M	5.24925G	5.270875G	17.791M	5.251104G	5.268896G	Inf	2
21.675M	5.2492G	5.270875G	17.791M	5.251079G	5.268871G	Inf	3
21.65M	5.24915G	5.2708G	17.741M	5.251104G	5.268846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX EBW

5300MHz

13/02/2018

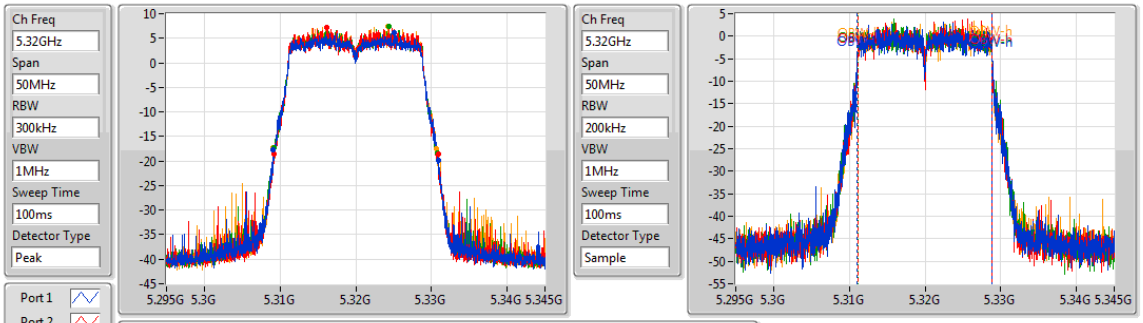


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.95M	5.289G	5.31095G	17.741M	5.291079G	5.308821G	Inf	1
21.55M	5.289175G	5.310725G	17.741M	5.291104G	5.308846G	Inf	2
21.65M	5.28915G	5.3108G	17.741M	5.291129G	5.308871G	Inf	3
21.5M	5.2893G	5.3108G	17.741M	5.291104G	5.308846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX EBW

5320MHz

13/02/2018

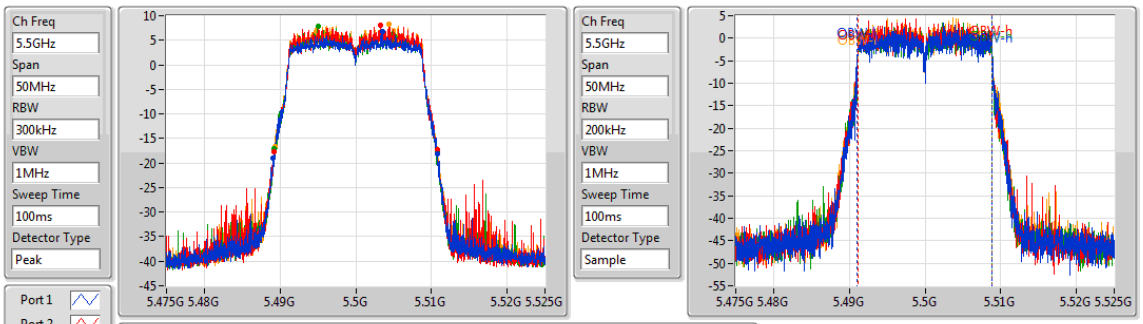


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.85M	5.309075G	5.330925G	17.791M	5.311079G	5.328871G	Inf	1
21.7M	5.3092G	5.3309G	17.716M	5.311104G	5.328821G	Inf	2
21.575M	5.309225G	5.3308G	17.741M	5.311104G	5.328846G	Inf	3
21.625M	5.309075G	5.3307G	17.741M	5.311104G	5.328846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX EBW

5500MHz

13/02/2018

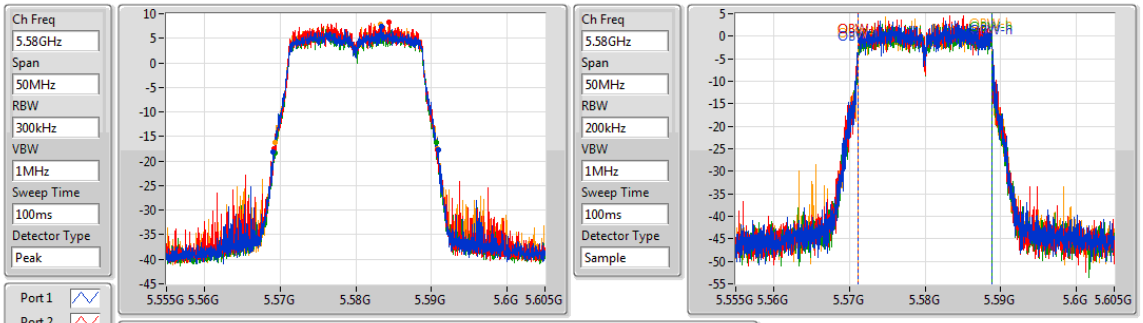


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.825M	5.489025G	5.51085G	17.816M	5.491079G	5.508896G	Inf	1
21.5M	5.489275G	5.510775G	17.716M	5.491129G	5.508846G	Inf	2
21.525M	5.489275G	5.5108G	17.741M	5.491129G	5.508871G	Inf	3
21.45M	5.4893G	5.51075G	17.791M	5.491104G	5.508896G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX EBW

5580MHz

13/02/2018

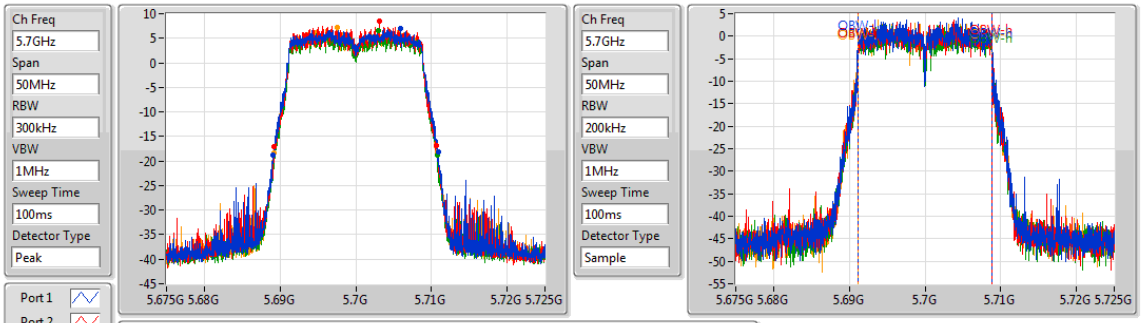


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.775M	5.5691G	5.590875G	17.741M	5.571129G	5.588871G	Inf	1
21.525M	5.569275G	5.5908G	17.741M	5.571129G	5.588871G	Inf	2
21.325M	5.56935G	5.590675G	17.691M	5.571154G	5.588846G	Inf	3
21.55M	5.5693G	5.59085G	17.741M	5.571104G	5.588846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX EBW

5700MHz

13/02/2018

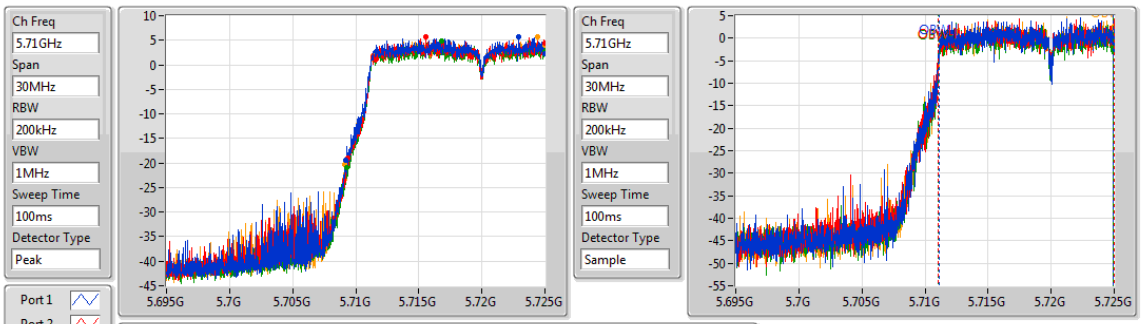


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.925M	5.68905G	5.710975G	17.716M	5.691154G	5.708871G	Inf	1
21.425M	5.68925G	5.710675G	17.716M	5.691154G	5.708871G	Inf	2
21.675M	5.6891G	5.710775G	17.741M	5.691104G	5.708846G	Inf	3
21.525M	5.6892G	5.710725G	17.741M	5.691104G	5.708846G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX EBW

5720MHz Straddle 5.47-5.725GHz

13/02/2018



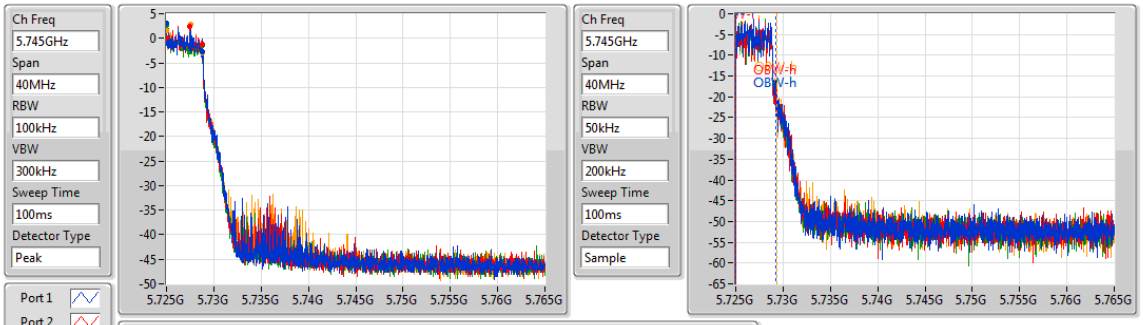
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.795M	5.709205G	5.725G	13.838M	5.711094G	5.724933G	Inf	1
15.645M	5.709355G	5.725G	13.898M	5.711064G	5.724963G	Inf	2
15.705M	5.709295G	5.725G	13.883M	5.711064G	5.724948G	Inf	3
15.84M	5.70916G	5.725G	13.883M	5.711049G	5.724933G	Inf	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

13/02/2018



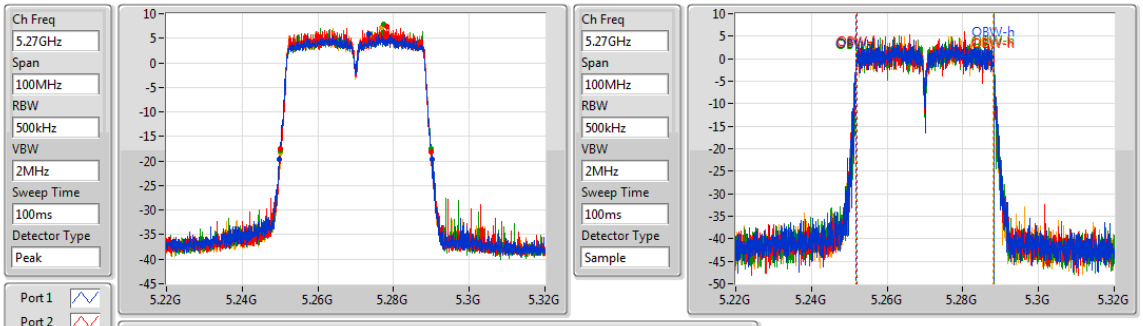
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.8M	5.725G	5.7288G	4.198M	5.72501G	5.729208G	500k	1
3.78M	5.725G	5.72878G	4.258M	5.72503G	5.729288G	500k	2
3.78M	5.725G	5.72878G	4.218M	5.72501G	5.729228G	500k	3
3.82M	5.725G	5.72882G	4.318M	5.72501G	5.729328G	500k	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5270MHz

13/02/2018



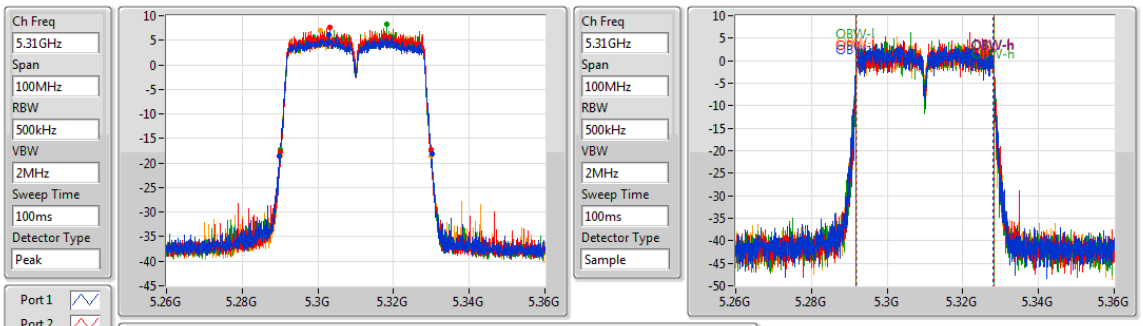
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.5M	5.2498G	5.2903G	36.282M	5.251859G	5.288141G	Inf	1
39.8M	5.25015G	5.28995G	36.232M	5.251909G	5.288141G	Inf	2
39.7M	5.2501G	5.2898G	36.282M	5.251859G	5.288141G	Inf	3
39.9M	5.2501G	5.29G	36.232M	5.251859G	5.288091G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5310MHz

13/02/2018

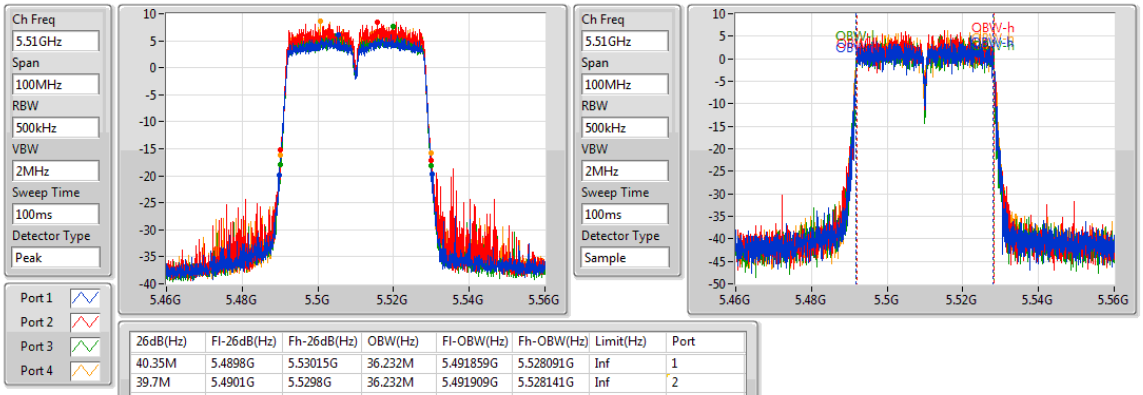


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.2M	5.2899G	5.3301G	36.232M	5.291859G	5.328091G	Inf	1
39.65M	5.29015G	5.3298G	36.282M	5.291859G	5.328141G	Inf	2
39.65M	5.2902G	5.32985G	36.332M	5.291809G	5.328141G	Inf	3
40.05M	5.28995G	5.33G	36.232M	5.291909G	5.328141G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX EBW

5510MHz

13/02/2018

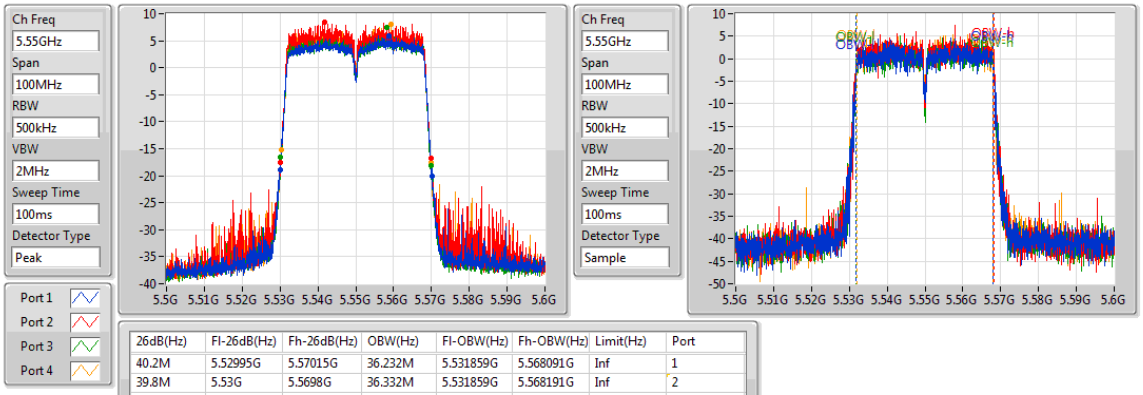


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.35M	5.4898G	5.53015G	36.232M	5.491859G	5.528091G	Inf	1
39.7M	5.4901G	5.5298G	36.232M	5.491909G	5.528141G	Inf	2
39.65M	5.49015G	5.5298G	36.332M	5.491809G	5.528141G	Inf	3
39.85M	5.4901G	5.52995G	36.282M	5.491859G	5.528141G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX EBW

5550MHz

13/02/2018

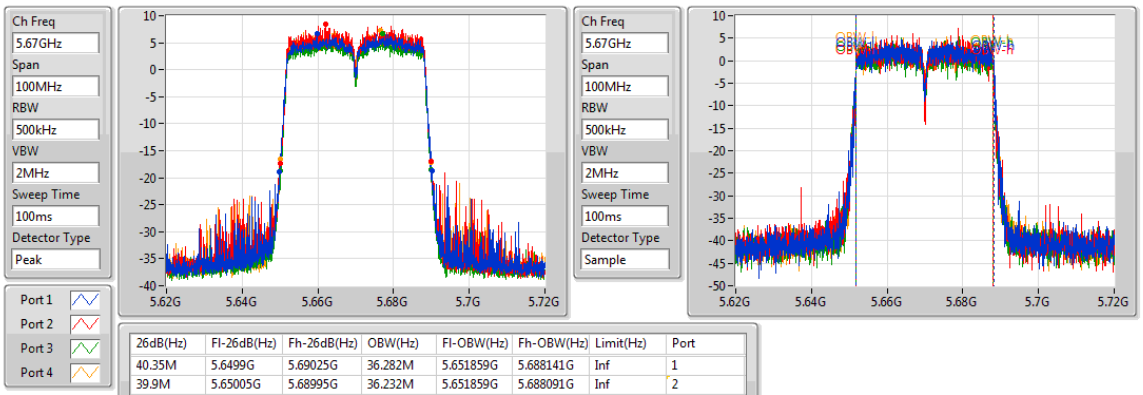


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.2M	5.52995G	5.57015G	36.232M	5.531859G	5.568091G	Inf	1
39.8M	5.53G	5.5698G	36.332M	5.531859G	5.568191G	Inf	2
39.7M	5.53015G	5.56985G	36.232M	5.531859G	5.568091G	Inf	3
39.8M	5.53025G	5.57005G	36.182M	5.531909G	5.568091G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX EBW

5670MHz

13/02/2018



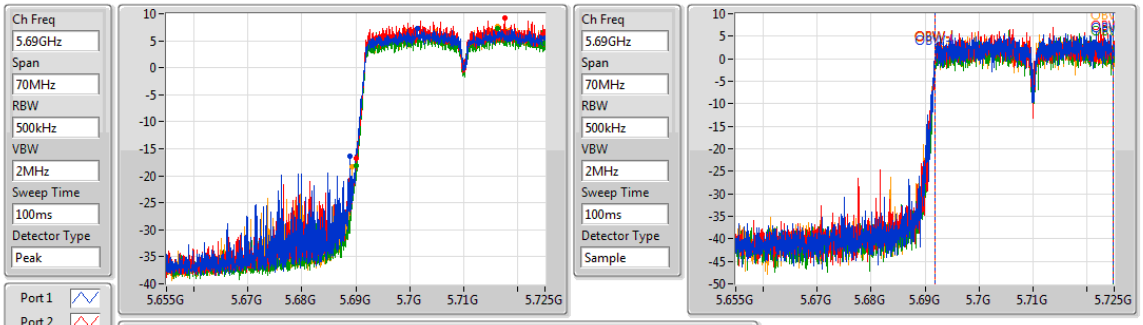
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.35M	5.6499G	5.69025G	36.282M	5.651859G	5.688141G	Inf	1
39.9M	5.65005G	5.68995G	36.232M	5.651859G	5.688091G	Inf	2
39.75M	5.65005G	5.6898G	36.182M	5.651859G	5.688041G	Inf	3
39.8M	5.65015G	5.68995G	36.282M	5.651809G	5.688091G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.47-5.725GHz

13/02/2018



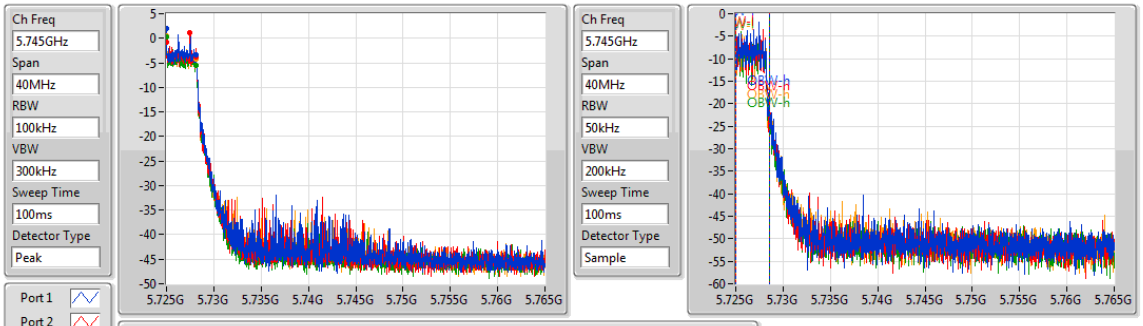
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.98M	5.68902G	5.725G	32.989M	5.691854G	5.724843G	Inf	1
34.93M	5.69007G	5.725G	33.023M	5.691854G	5.724878G	Inf	2
34.93M	5.69007G	5.725G	33.023M	5.691819G	5.724843G	Inf	3
35.735M	5.689265G	5.725G	33.023M	5.691819G	5.724843G	Inf	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

13/02/2018



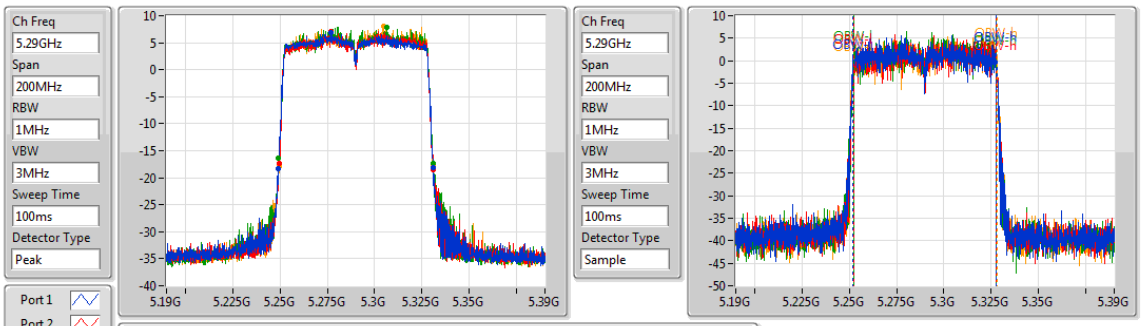
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.14M	5.725G	5.72814G	3.538M	5.72501G	5.728548G	500k	1
3.16M	5.725G	5.72816G	3.518M	5.72503G	5.728548G	500k	2
3.16M	5.725G	5.72816G	3.538M	5.72501G	5.728548G	500k	3
3.16M	5.725G	5.72816G	3.558M	5.72501G	5.728568G	500k	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5290MHz

13/02/2018

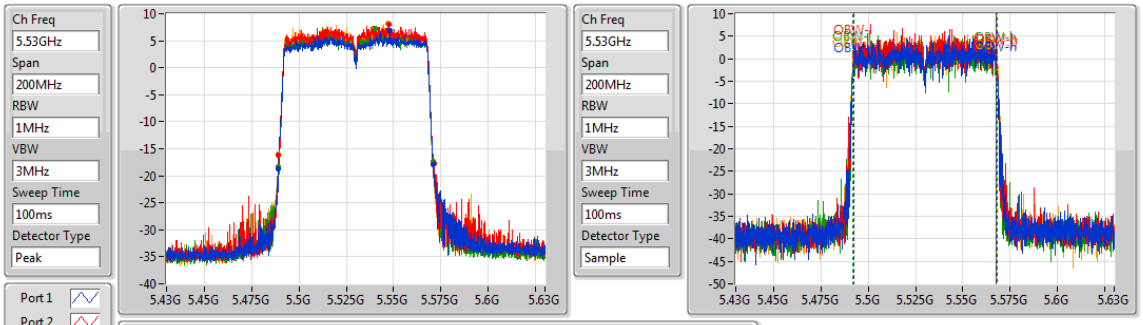


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.2M	5.2489G	5.3311G	75.862M	5.252019G	5.327881G	Inf	1
81.5M	5.2494G	5.3309G	75.762M	5.252119G	5.327881G	Inf	2
81.6M	5.2492G	5.3308G	75.662M	5.252119G	5.327781G	Inf	3
81.4M	5.2496G	5.331G	75.862M	5.252119G	5.327981G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX EBW

5530MHz

13/02/2018

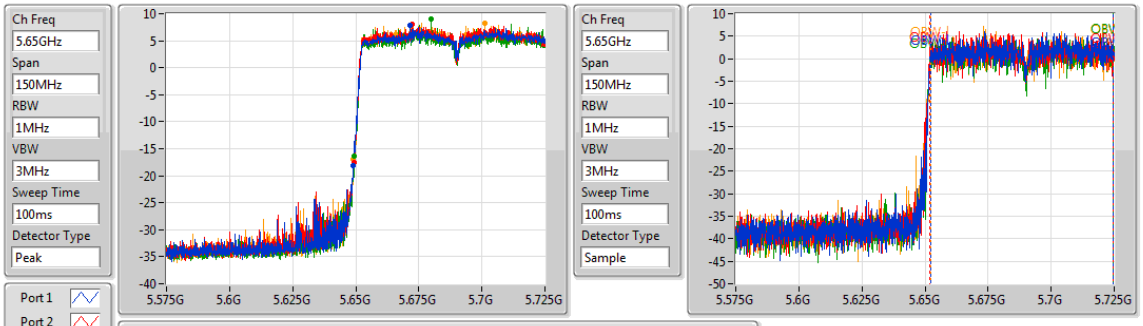


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.7M	5.4893G	5.571G	75.762M	5.492119G	5.567881G	Inf	1
82.1M	5.4893G	5.5714G	75.862M	5.492119G	5.567981G	Inf	2
81.7M	5.4892G	5.5709G	75.862M	5.492019G	5.567881G	Inf	3
81.5M	5.4893G	5.5708G	75.962M	5.492019G	5.567981G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX EBW

5690MHz Straddle 5.47-5.725GHz

13/02/2018

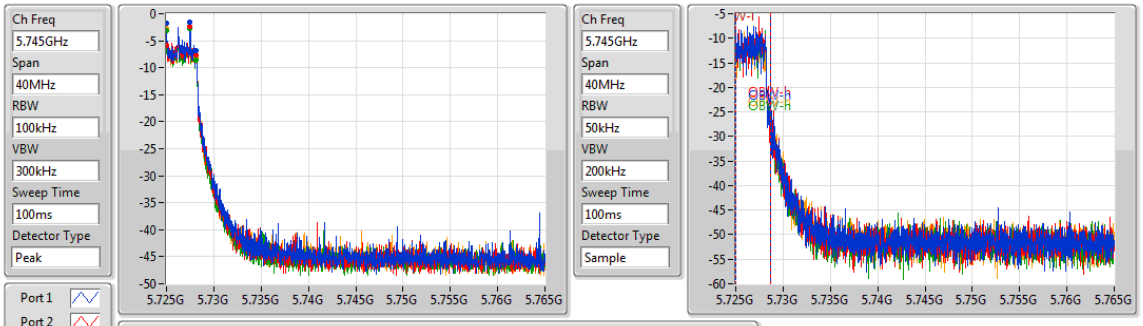


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.125M	5.648875G	5.725G	72.414M	5.652099G	5.724513G	Inf	1
75.825M	5.649175G	5.725G	72.564M	5.652024G	5.724588G	Inf	2
75.45M	5.64955G	5.725G	72.714M	5.652024G	5.724738G	Inf	3
75.975M	5.649025G	5.725G	72.489M	5.652099G	5.724588G	Inf	4

802.11ac VHT80-BF_Nss1,(MCS0)_4TX EBW

5690MHz Straddle 5.725-5.85GHz

13/02/2018



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.14M	5.725G	5.72814G	3.718M	5.72501G	5.728728G	500k	1
3.16M	5.725G	5.72816G	3.718M	5.72501G	5.728728G	500k	2
3.16M	5.725G	5.72816G	3.658M	5.72501G	5.728668G	500k	3
3.14M	5.725G	5.72814G	3.678M	5.72501G	5.728688G	500k	4

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.62	0.14521	23.92	0.24660
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.54	0.14256	29.86	0.96828
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	21.60	0.14454	29.92	0.98175
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	21.59	0.14421	29.91	0.97949
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.13	0.16331	24.03	0.25293
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.96	0.15704	29.88	0.97275
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	22.04	0.15996	29.96	0.99083
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	22.03	0.15959	29.95	0.98855
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	14.69	0.02944	16.59	0.04560
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	15.16	0.03281	23.08	0.20324
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	11.50	0.01413	19.42	0.08750
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	8.18	0.00658	16.10	0.04074

Result

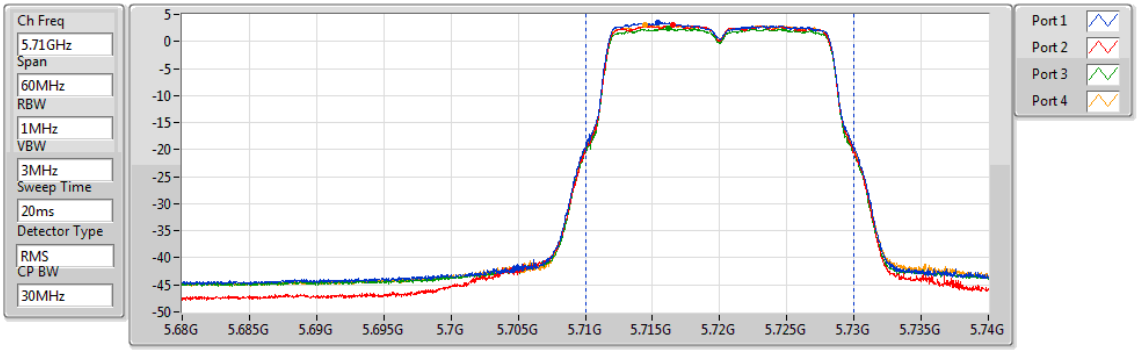
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	2.30	15.77	15.51	15.07	15.62	21.52	23.98	23.82	30.00
5300MHz	Pass	2.30	15.50	15.63	15.27	15.84	21.59	23.98	23.89	30.00
5320MHz	Pass	2.30	15.44	15.52	15.65	15.79	21.62	23.98	23.92	30.00
5500MHz	Pass	1.90	15.83	15.96	15.74	15.66	21.82	23.98	23.72	30.00
5580MHz	Pass	1.90	16.04	16.19	15.91	15.75	22.00	23.98	23.90	30.00
5700MHz	Pass	1.90	16.44	16.57	15.68	15.66	22.13	23.98	24.03	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	1.90	15.14	14.86	14.35	14.90	20.84	22.94	22.74	28.94
5720MHz Straddle 5.725-5.85GHz	Pass	1.90	9.05	8.61	8.20	8.78	14.69	30.00	16.59	36.00
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	8.32	15.22	15.36	15.54	15.53	21.44	21.66	29.76	30.00
5300MHz	Pass	8.32	15.52	15.50	15.54	15.52	21.54	21.66	29.86	30.00
5320MHz	Pass	8.32	15.70	15.24	15.08	15.55	21.42	21.66	29.74	30.00
5500MHz	Pass	7.92	16.73	15.47	15.79	15.62	21.95	22.06	29.87	30.00
5580MHz	Pass	7.92	15.93	16.03	15.73	15.70	21.87	22.06	29.79	30.00
5700MHz	Pass	7.92	16.07	16.14	15.75	15.80	21.96	22.06	29.88	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.92	14.98	14.81	14.29	14.90	20.77	21.02	28.69	28.94
5720MHz Straddle 5.725-5.85GHz	Pass	7.92	9.37	9.11	8.70	9.34	15.16	28.08	23.08	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	8.32	15.50	15.61	15.40	15.41	21.50	21.66	29.82	30.00
5310MHz	Pass	8.32	15.58	15.68	15.56	15.50	21.60	21.66	29.92	30.00
5510MHz	Pass	7.92	15.93	15.94	15.78	15.82	21.89	22.06	29.81	30.00
5550MHz	Pass	7.92	16.08	15.85	16.04	15.83	21.97	22.06	29.89	30.00
5670MHz	Pass	7.92	16.48	16.51	15.47	15.52	22.04	22.06	29.96	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.92	16.30	16.12	15.23	15.76	21.89	22.06	29.81	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.92	5.92	5.58	5.02	5.35	11.50	28.08	19.42	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	8.32	15.95	15.54	15.09	15.65	21.59	21.66	29.91	30.00
5530MHz	Pass	7.92	16.02	16.26	15.77	15.84	22.00	22.06	29.92	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.92	16.26	16.30	15.47	15.97	22.03	22.06	29.95	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.92	2.49	2.25	1.79	2.06	8.18	28.08	16.10	36.00

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

802.11a_Nss1,(6Mbps)_4TX **AV Power**

5720MHz Straddle 5.47-5.725GHz

13/02/2018



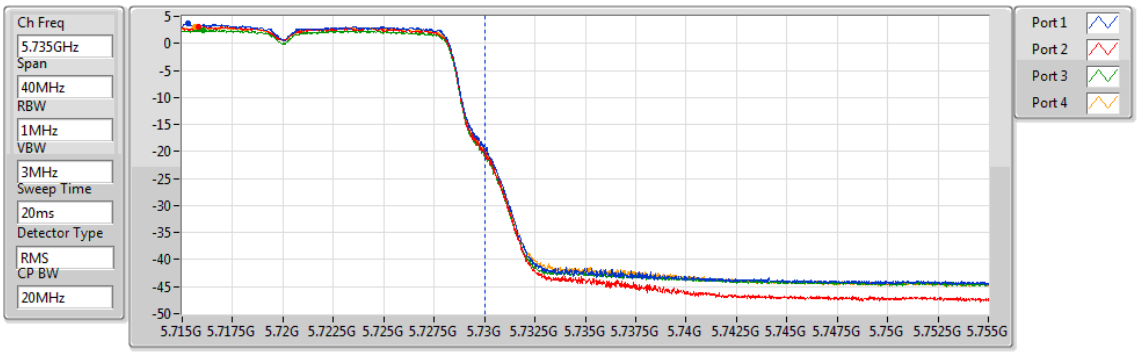
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
20.84	15.14	14.86	14.35	14.90

802.11a_Nss1,(6Mbps)_4TX **AV Power**

5720MHz Straddle 5.725-5.85GHz

13/02/2018



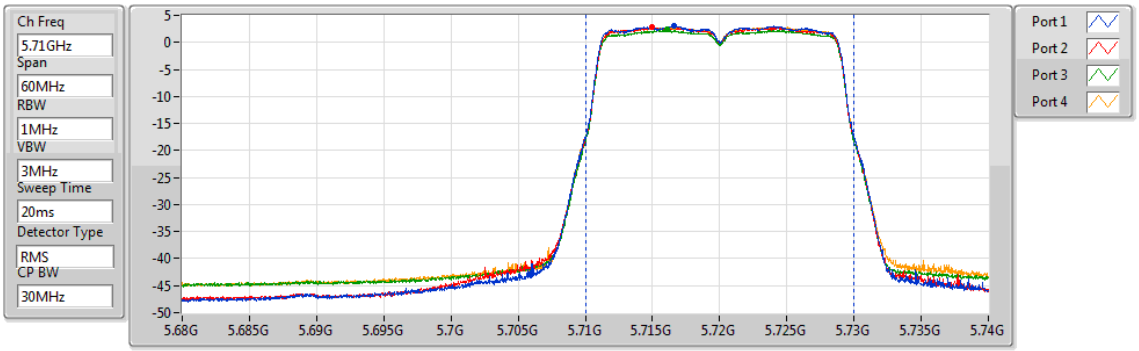
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
14.69	9.05	8.61	8.20	8.78

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **AV Power**

5720MHz Straddle 5.47-5.725GHz

13/02/2018



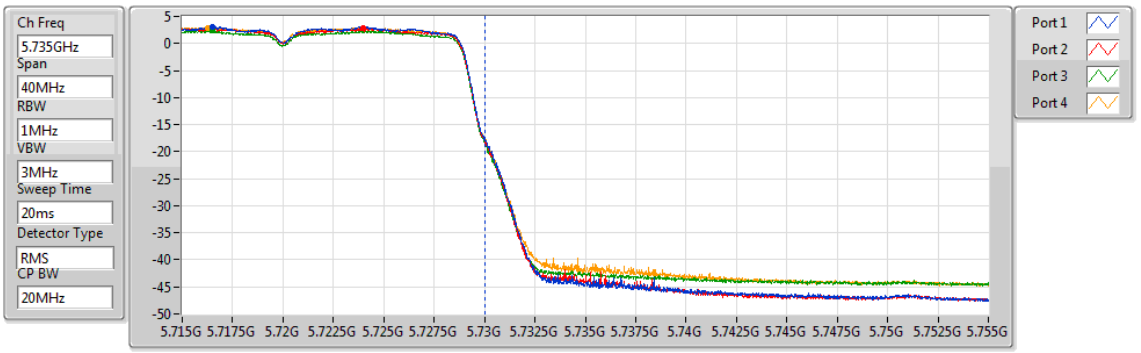
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
20.77	14.98	14.81	14.29	14.90

802.11ac VHT20-BF_Nss1,(MCS0)_4TX — AV Power

5720MHz Straddle 5.725-5.85GHz

13/02/2018



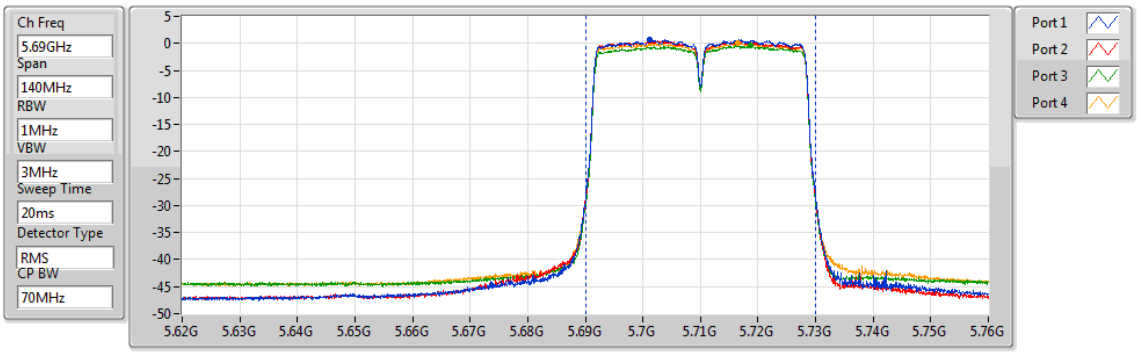
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
15.16	9.37	9.11	8.70	9.34

802.11ac VHT40-BF_Nss1,(MCS0)_4TX — AV Power

5710MHz Straddle 5.47-5.725GHz

13/02/2018



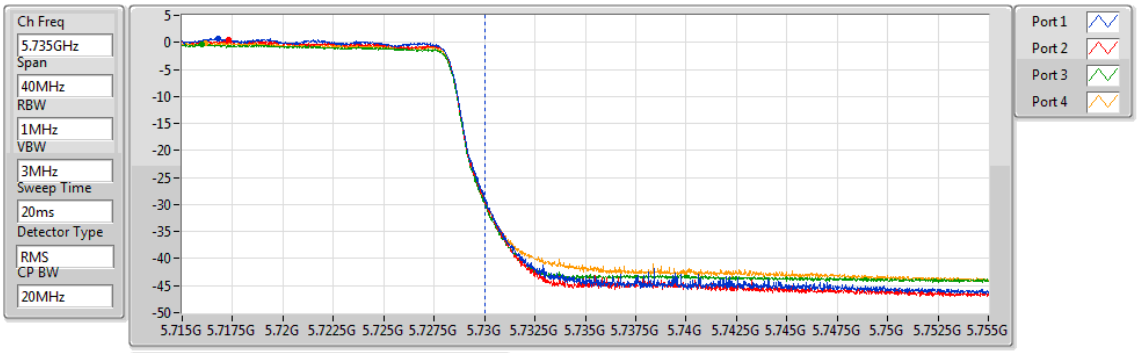
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
21.89	16.30	16.12	15.23	15.76

802.11ac VHT40-BF_Nss1,(MCS0)_4TX — AV Power

5710MHz Straddle 5.725-5.85GHz

13/02/2018



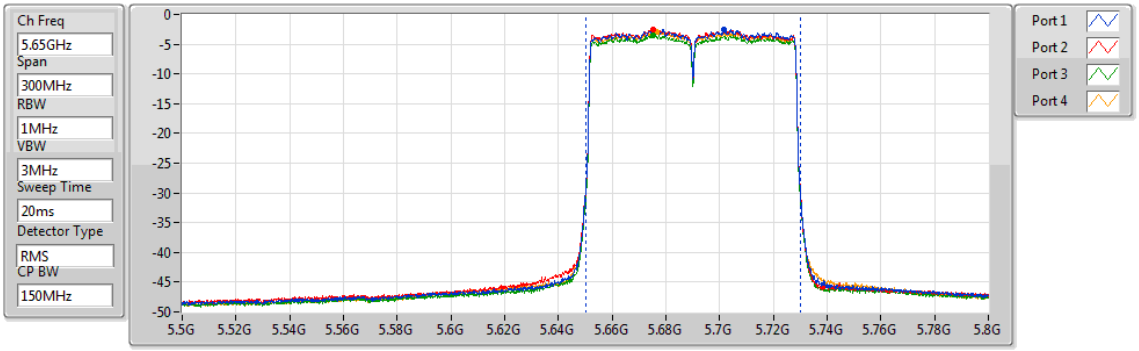
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
11.50	5.92	5.58	5.02	5.35

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **AV Power**

5690MHz Straddle 5.47-5.725GHz

13/02/2018



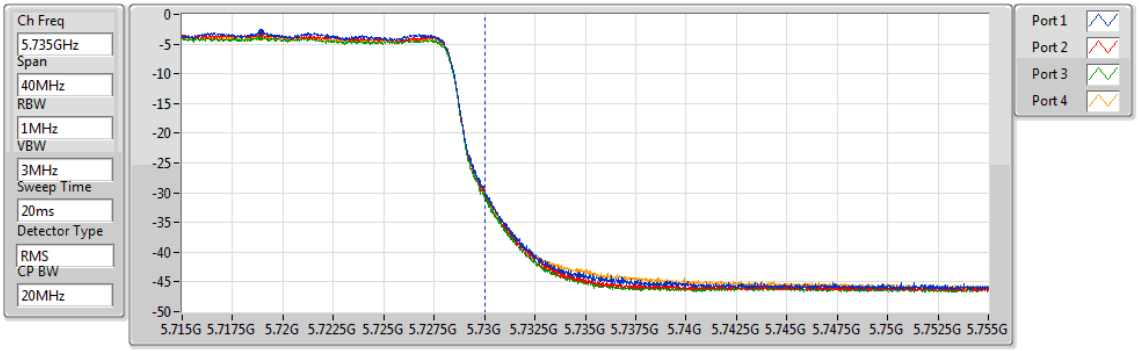
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.03	16.26	16.30	15.47	15.97

802.11ac VHT80-BF_Nss1,(MCS0)_4TX **AV Power**

5690MHz Straddle 5.725-5.85GHz

13/02/2018



Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
8.18	2.49	2.25	1.79	2.06

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	8.53	16.85
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	8.00	16.32
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	5.12	13.44
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	2.64	10.96
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	9.03	16.95
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	8.62	16.54
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	6.11	14.03
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	3.21	11.13
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	7.06	14.98
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	6.99	14.91
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	3.87	11.79
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	0.63	8.55

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

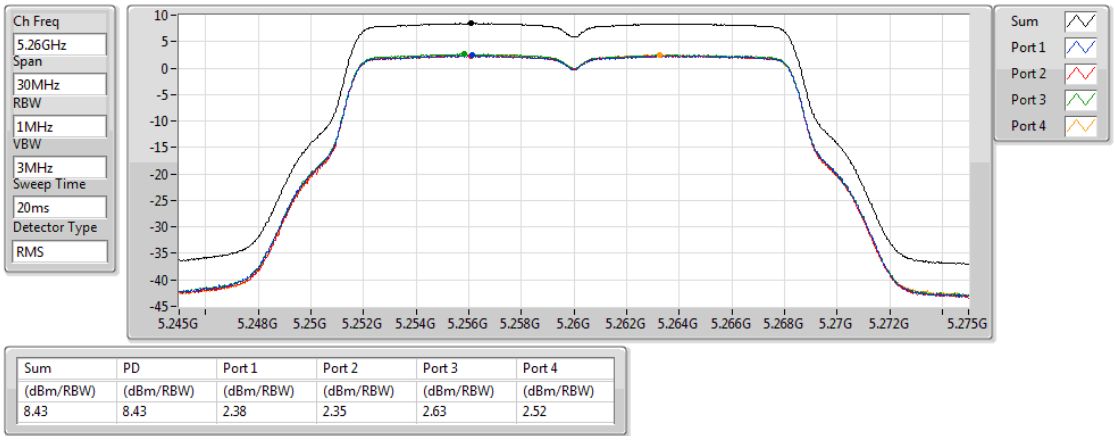
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	8.32	2.38	2.35	2.63	2.52	8.43	8.68	16.75	Inf
5300MHz	Pass	8.32	2.58	2.53	2.56	2.65	8.53	8.68	16.85	Inf
5320MHz	Pass	8.32	2.42	2.53	2.57	2.64	8.48	8.68	16.80	Inf
5500MHz	Pass	7.92	2.39	3.42	2.63	3.27	8.88	9.08	16.80	Inf
5580MHz	Pass	7.92	2.88	3.53	2.58	3.29	9.03	9.08	16.95	Inf
5700MHz	Pass	7.92	3.33	3.34	2.30	2.82	8.91	9.08	16.83	Inf
5720MHz Straddle 5.47-5.725GHz	Pass	7.92	3.55	3.26	2.47	3.15	8.97	9.08	16.89	Inf
5720MHz Straddle 5.725-5.85GHz	Pass	7.92	1.38	1.17	0.63	1.18	7.06	28.08	14.98	Inf
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	8.32	1.87	1.96	2.09	2.04	7.93	8.68	16.25	Inf
5300MHz	Pass	8.32	2.07	2.07	2.10	2.05	8.00	8.68	16.32	Inf
5320MHz	Pass	8.32	1.79	1.99	2.06	2.15	7.91	8.68	16.23	Inf
5500MHz	Pass	7.92	1.90	2.64	2.09	2.90	8.31	9.08	16.23	Inf
5580MHz	Pass	7.92	2.57	2.87	2.10	2.69	8.51	9.08	16.43	Inf
5700MHz	Pass	7.92	2.87	2.74	1.86	2.20	8.40	9.08	16.32	Inf
5720MHz Straddle 5.47-5.725GHz	Pass	7.92	2.99	2.78	2.14	2.72	8.62	9.08	16.54	Inf
5720MHz Straddle 5.725-5.85GHz	Pass	7.92	1.27	1.07	0.56	1.16	6.99	28.08	14.91	Inf
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	8.32	-0.83	-0.91	-0.60	-0.98	5.11	8.68	13.43	Inf
5310MHz	Pass	8.32	-0.81	-0.77	-0.82	-0.76	5.12	8.68	13.44	Inf
5510MHz	Pass	7.92	-0.58	0.48	-0.58	0.03	5.73	9.08	13.65	Inf
5550MHz	Pass	7.92	-0.86	0.05	-1.04	-0.59	5.32	9.08	13.24	Inf
5670MHz	Pass	7.92	0.10	-0.09	-0.98	-0.14	5.68	9.08	13.60	Inf
5710MHz Straddle 5.47-5.725GHz	Pass	7.92	0.71	0.51	-0.54	-0.01	6.11	9.08	14.03	Inf
5710MHz Straddle 5.725-5.85GHz	Pass	7.92	-1.61	-1.85	-2.55	-2.33	3.87	28.08	11.79	Inf
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	8.32	-3.32	-3.53	-3.11	-3.26	2.64	8.68	10.96	Inf
5530MHz	Pass	7.92	-3.83	-2.80	-3.87	-3.27	2.46	9.08	10.38	Inf
5690MHz Straddle 5.47-5.725GHz	Pass	7.92	-2.75	-2.82	-3.44	-3.06	2.85	9.08	10.77	Inf
5690MHz Straddle 5.725-5.85GHz	Pass	7.92	-4.86	-5.17	-5.69	-5.42	0.63	28.08	8.55	Inf

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)_4TX **PSD**

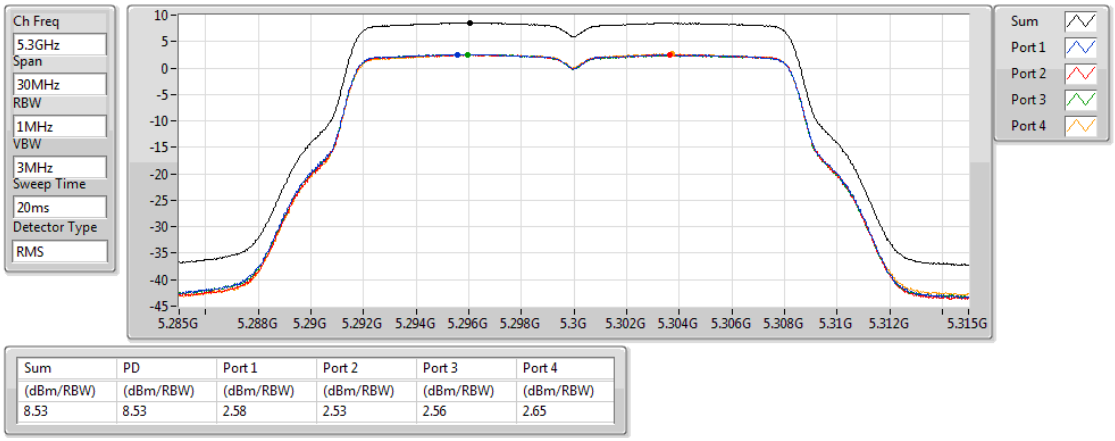
5260MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.43	8.43	2.38	2.35	2.63	2.52

802.11a_Nss1,(6Mbps)_4TX **PSD**

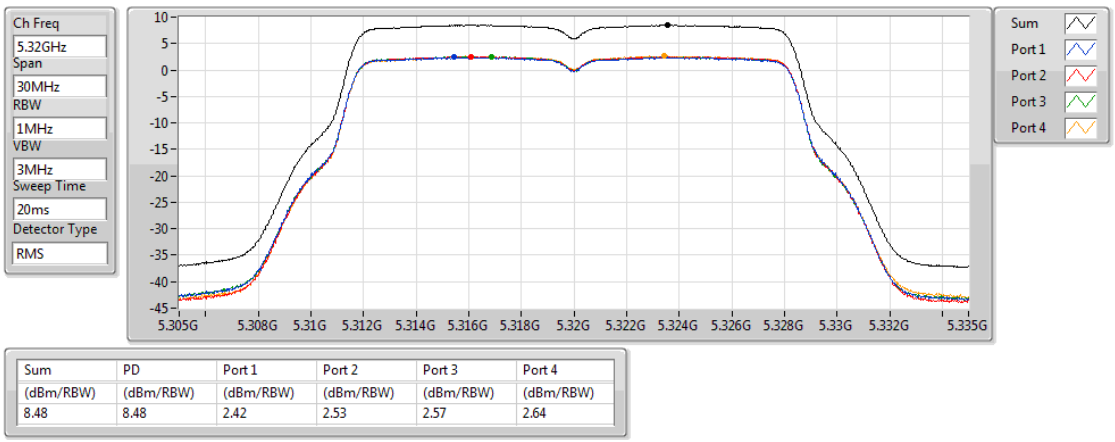
5300MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.53	8.53	2.58	2.53	2.56	2.65

802.11a_Nss1,(6Mbps)_4TX **PSD**

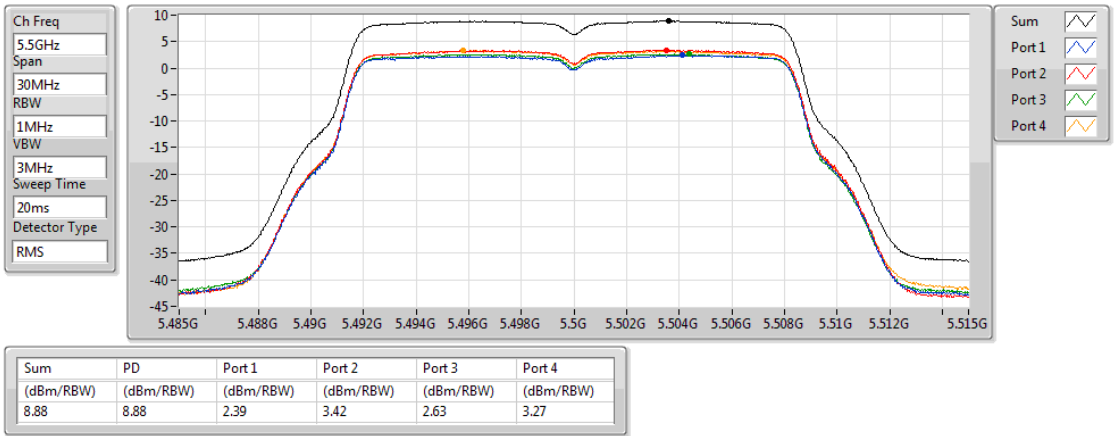
5320MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.48	8.48	2.42	2.53	2.57	2.64

802.11a_Nss1,(6Mbps)_4TX PSD

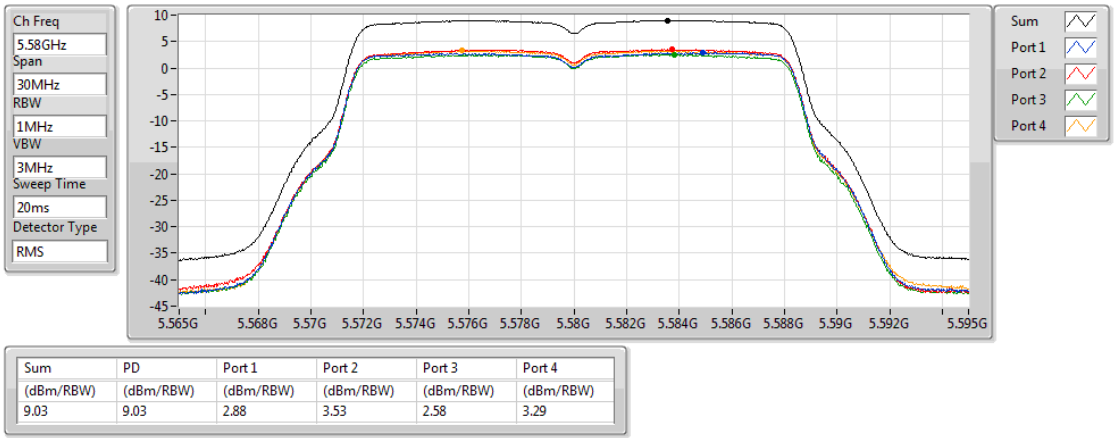
5500MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.88	8.88	2.39	3.42	2.63	3.27

802.11a_Nss1,(6Mbps)_4TX PSD

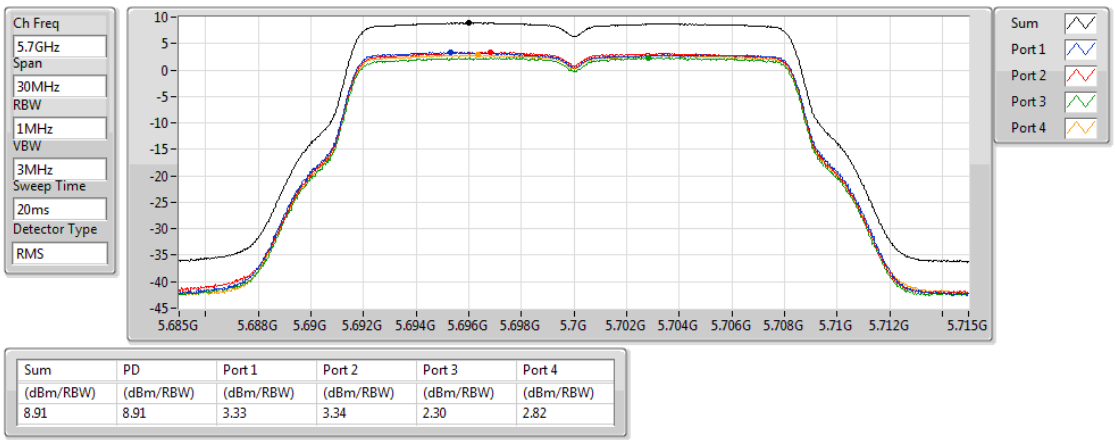
5580MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.03	9.03	2.88	3.53	2.58	3.29

802.11a_Nss1,(6Mbps)_4TX PSD

5700MHz

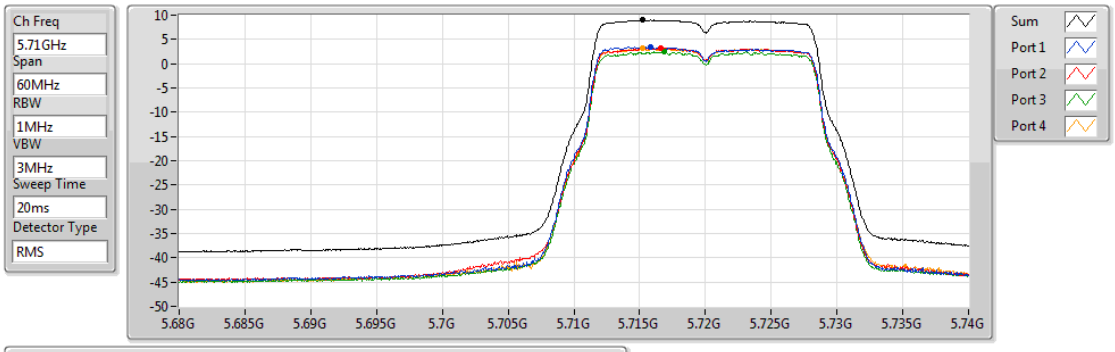


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.91	8.91	3.33	3.34	2.30	2.82

802.11a_Nss1,(6Mbps)_4TX PSD

5720MHz Straddle 5.47-5.725GHz

13/02/2018

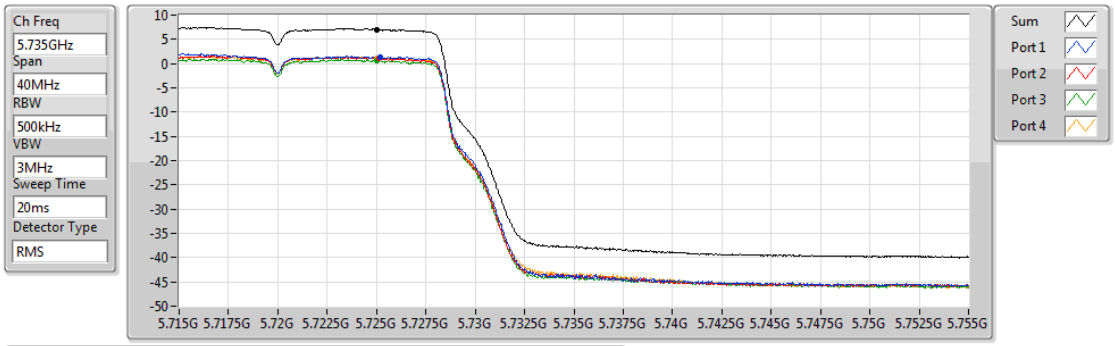


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.97	8.97	3.55	3.26	2.47	3.15

802.11a_Nss1,(6Mbps)_4TX PSD

5720MHz Straddle 5.725-5.85GHz

13/02/2018

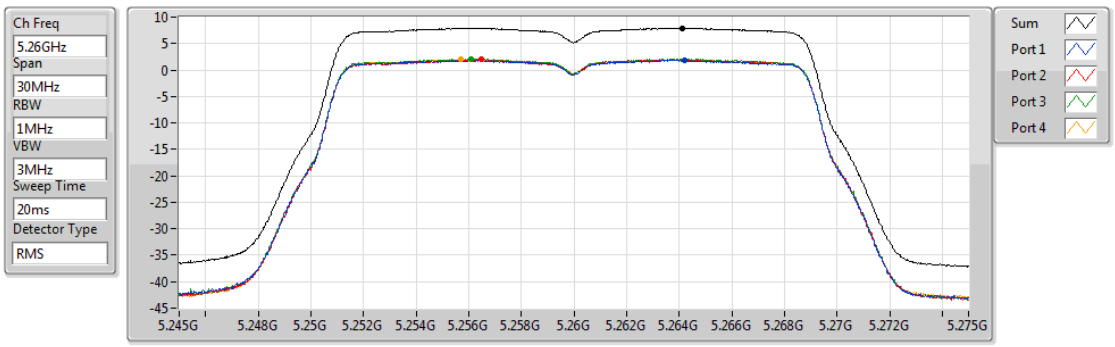


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.06	7.06	1.38	1.17	0.63	1.18

802.11ac VHT20-BF_Nss1,(MCS0)_4TX PSD

5260MHz

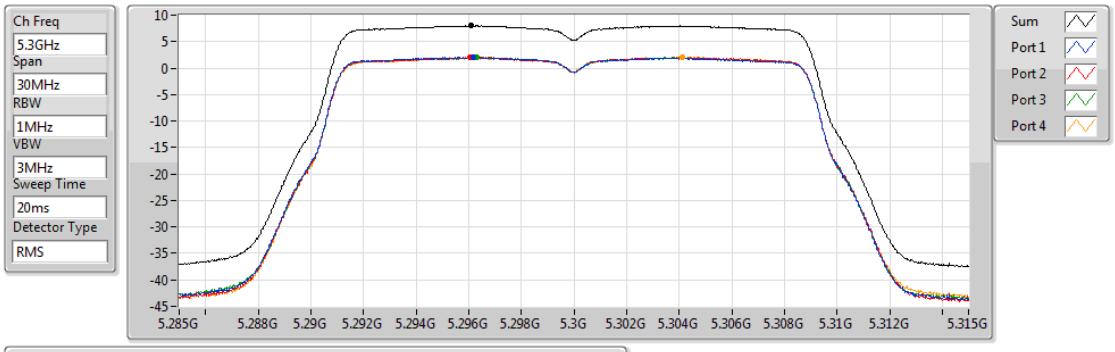
13/02/2018



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.93	7.93	1.87	1.96	2.09	2.04

802.11ac VHT20-BF_Nss1,(MCS0)_4TX PSD

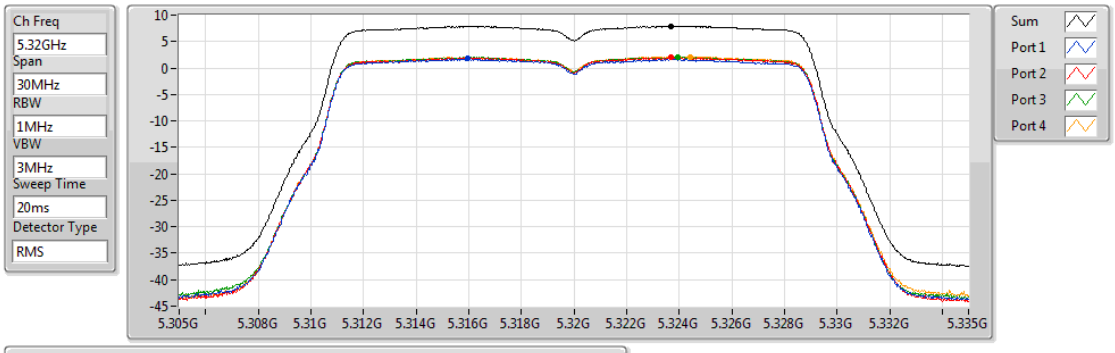
5300MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.00	8.00	2.07	2.07	2.10	2.05

802.11ac VHT20-BF_Nss1,(MCS0)_4TX PSD

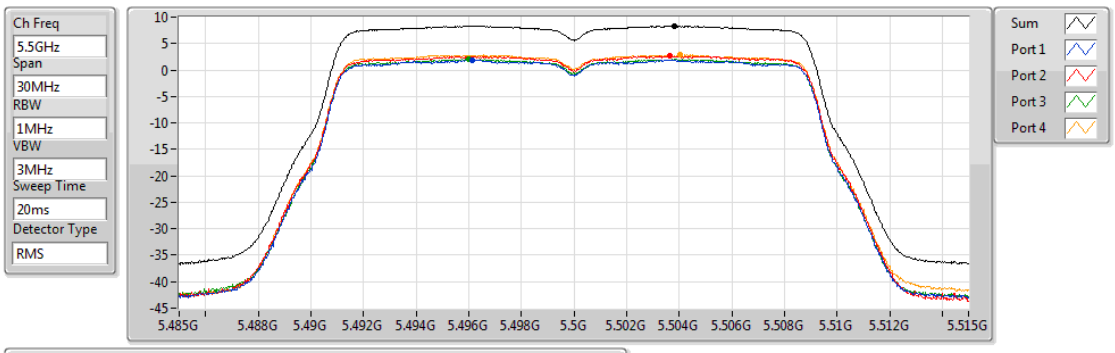
5320MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.91	7.91	1.79	1.99	2.06	2.15

802.11ac VHT20-BF_Nss1,(MCS0)_4TX PSD

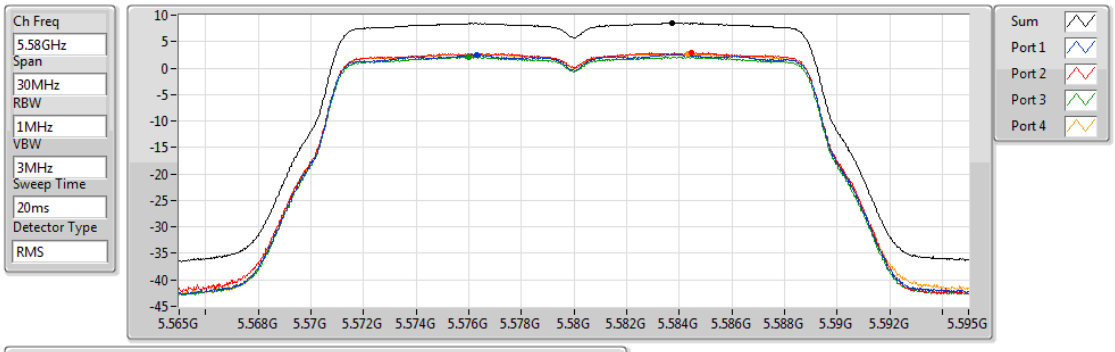
5500MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.31	8.31	1.90	2.64	2.09	2.90

802.11ac VHT20-BF_Nss1,(MCS0)_4TX PSD

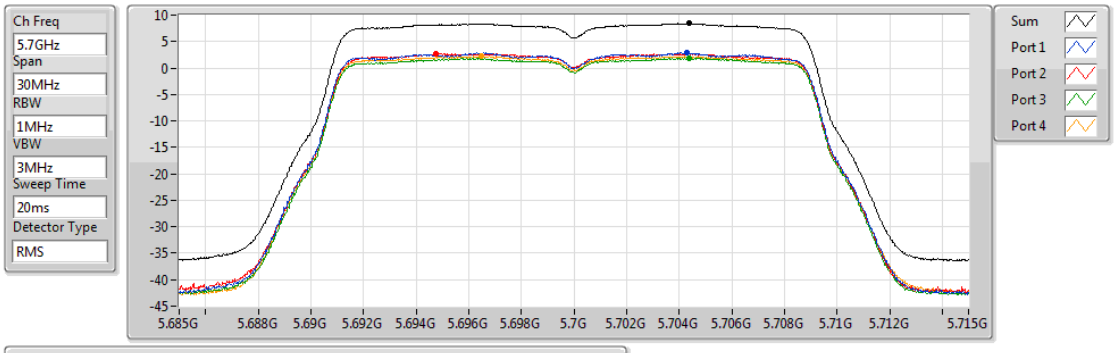
5580MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.51	8.51	2.57	2.87	2.10	2.69

802.11ac VHT20-BF_Nss1,(MCS0)_4TX PSD

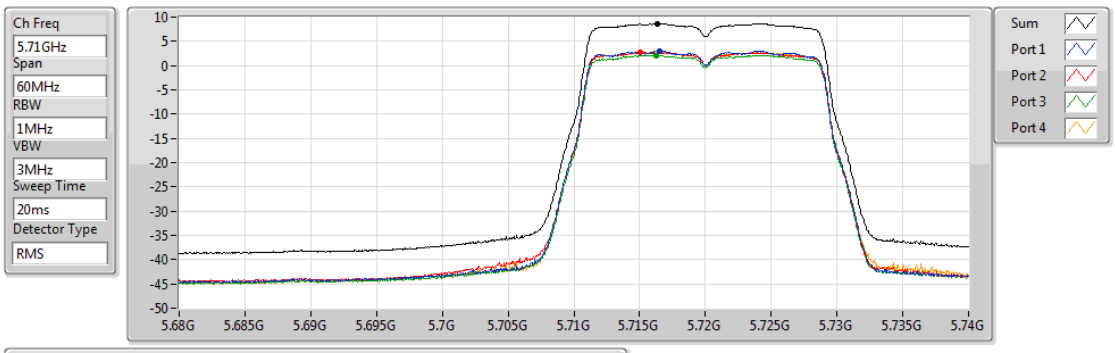
5700MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.40	8.40	2.87	2.74	1.86	2.20

802.11ac VHT20-BF_Nss1,(MCS0)_4TX PSD

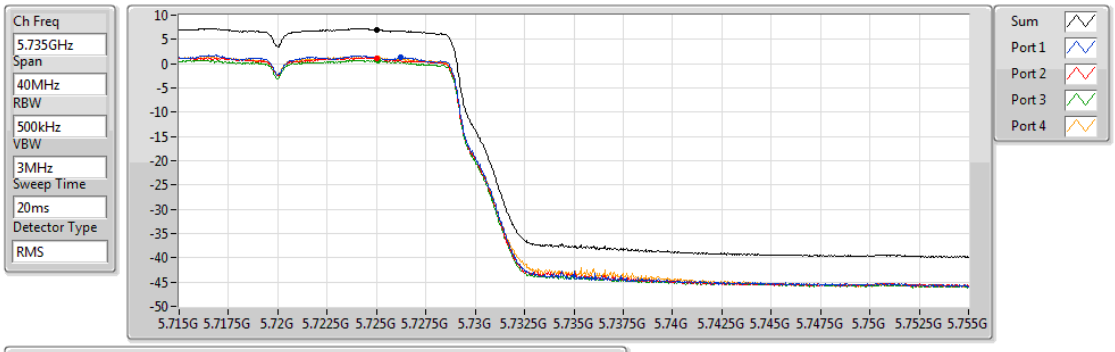
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.62	8.62	2.99	2.78	2.14	2.72

802.11ac VHT20-BF_Nss1,(MCS0)_4TX PSD

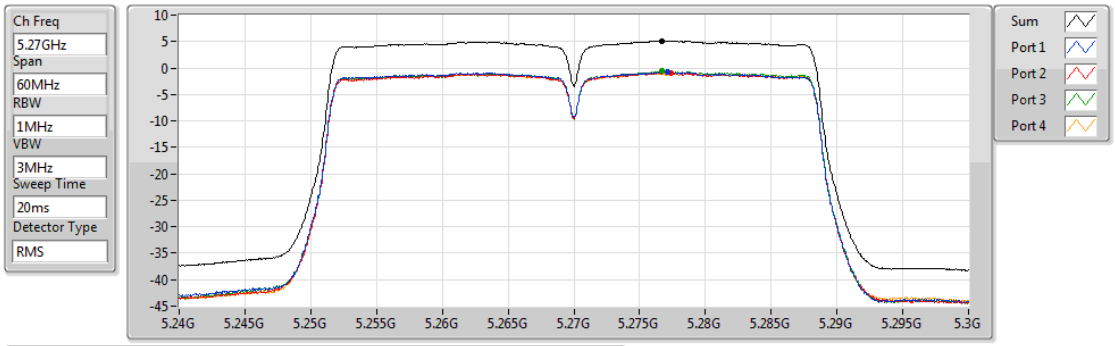
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.99	6.99	1.27	1.07	0.56	1.16

802.11ac VHT40-BF_Nss1,(MCS0)_4TX PSD

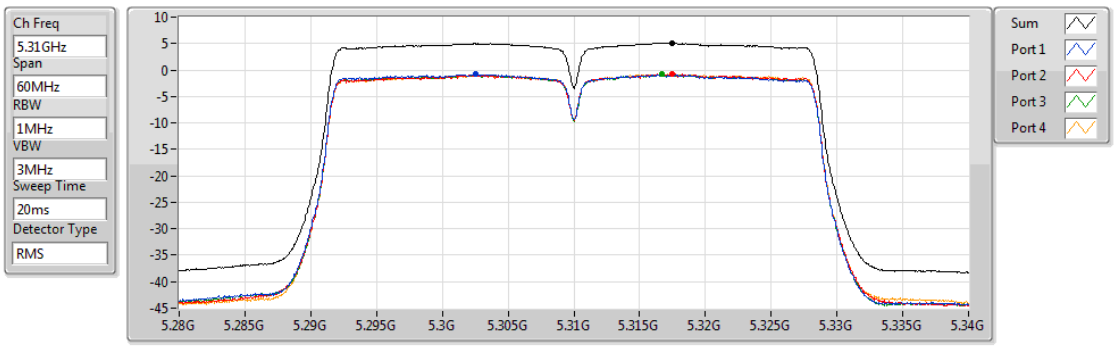
5270MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.11	5.11	-0.83	-0.91	-0.60	-0.98

802.11ac VHT40-BF_Nss1,(MCS0)_4TX PSD

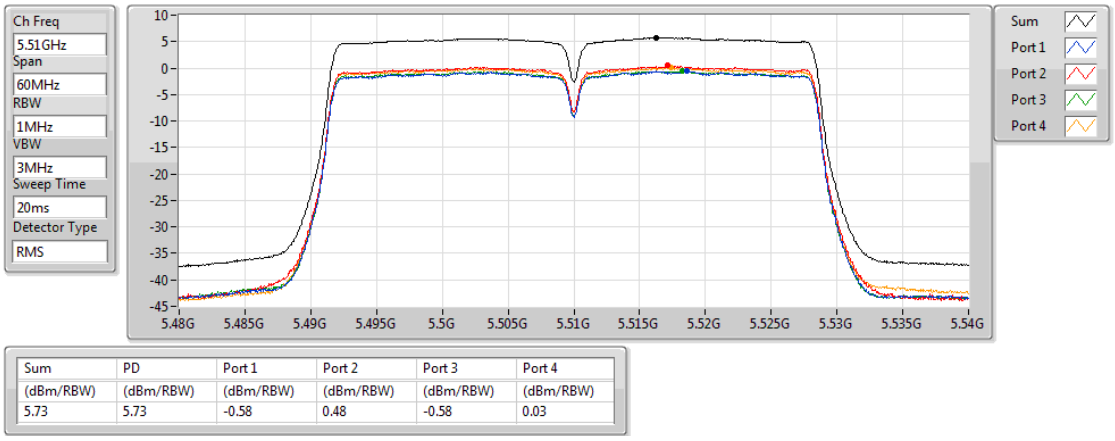
5310MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.12	5.12	-0.81	-0.77	-0.82	-0.76

802.11ac VHT40-BF_Nss1,(MCS0)_4TX PSD

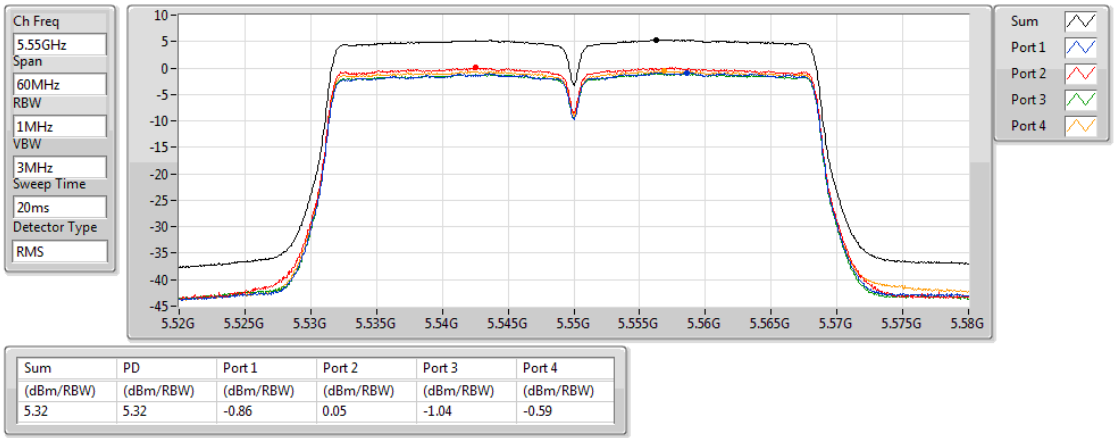
5510MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.73	5.73	-0.58	0.48	-0.58	0.03

802.11ac VHT40-BF_Nss1,(MCS0)_4TX PSD

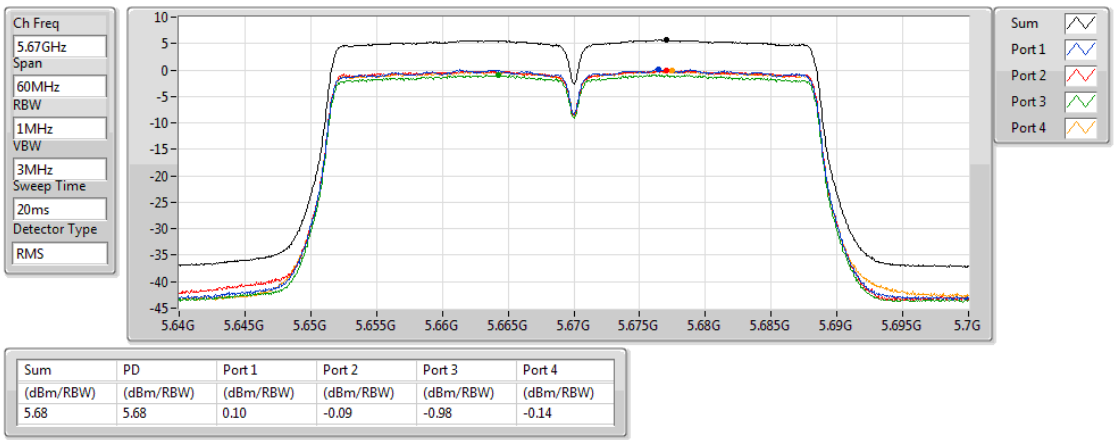
5550MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.32	5.32	-0.86	0.05	-1.04	-0.59

802.11ac VHT40-BF_Nss1,(MCS0)_4TX PSD

5670MHz

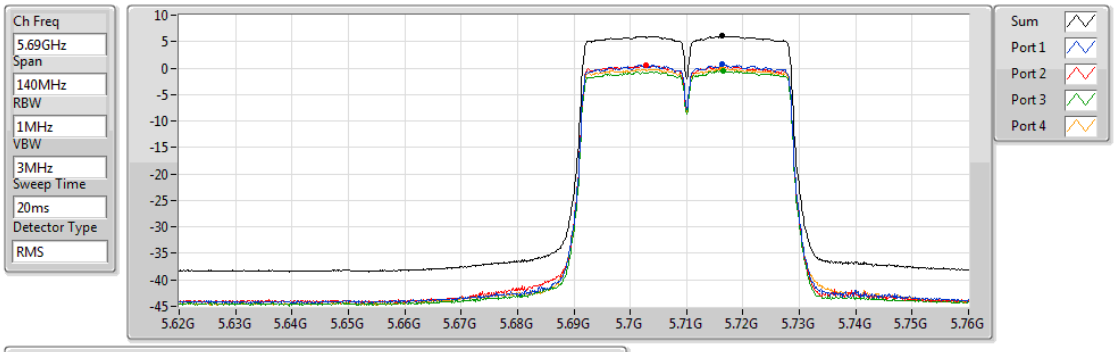


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.68	5.68	0.10	-0.09	-0.98	-0.14

802.11ac VHT40-BF_Nss1,(MCS0)_4TX PSD

5710MHz Straddle 5.47-5.725GHz

13/02/2018

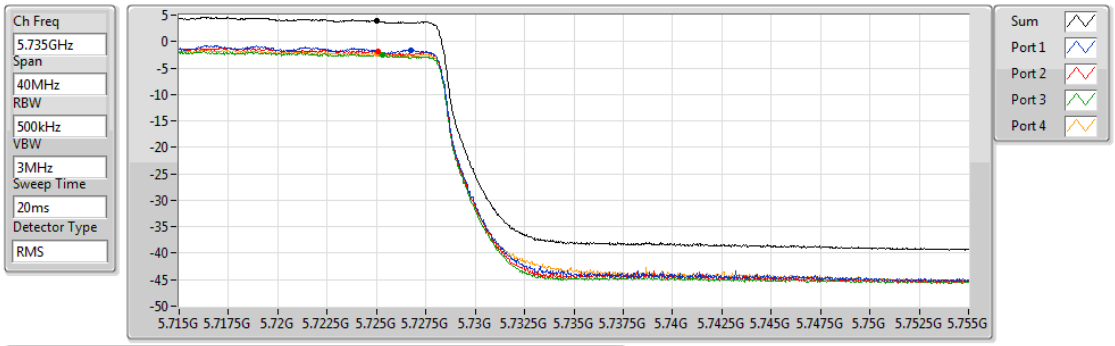


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.11	6.11	0.71	0.51	-0.54	-0.01

802.11ac VHT40-BF_Nss1,(MCS0)_4TX PSD

5710MHz Straddle 5.725-5.85GHz

13/02/2018

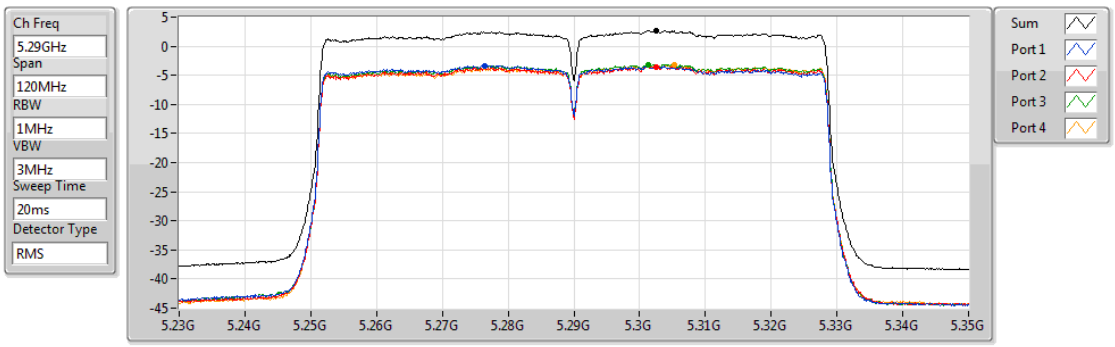


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.87	3.87	-1.61	-1.85	-2.55	-2.33

802.11ac VHT80-BF_Nss1,(MCS0)_4TX PSD

5290MHz

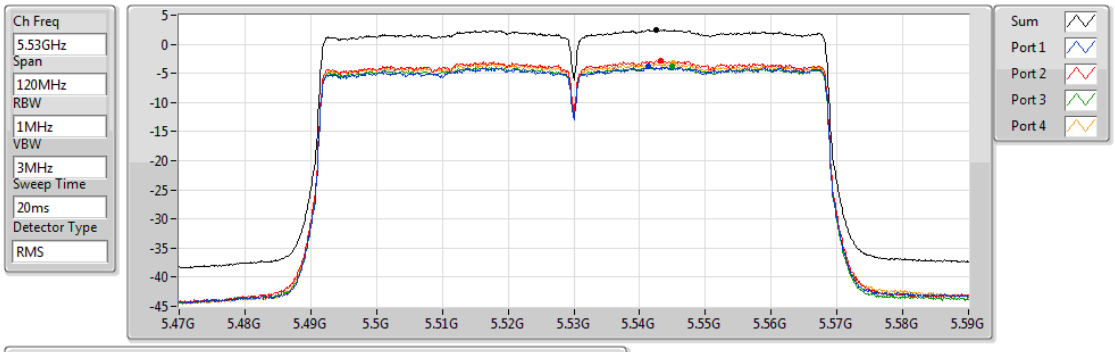
13/02/2018



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.64	2.64	-3.32	-3.53	-3.11	-3.26

802.11ac VHT80-BF_Nss1,(MCS0)_4TX PSD

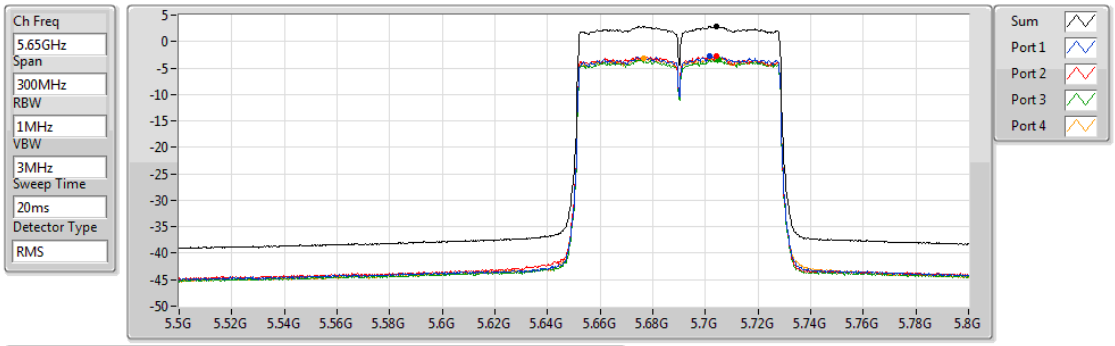
5530MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.46	2.46	-3.83	-2.80	-3.87	-3.27

802.11ac VHT80-BF_Nss1,(MCS0)_4TX PSD

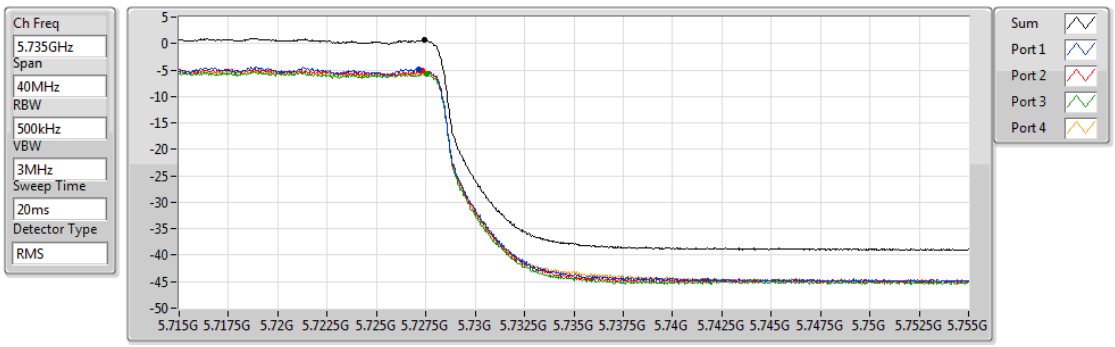
5690MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.85	2.85	-2.75	-2.82	-3.44	-3.06

802.11ac VHT80-BF_Nss1,(MCS0)_4TX PSD

5690MHz Straddle 5.725-5.85GHz



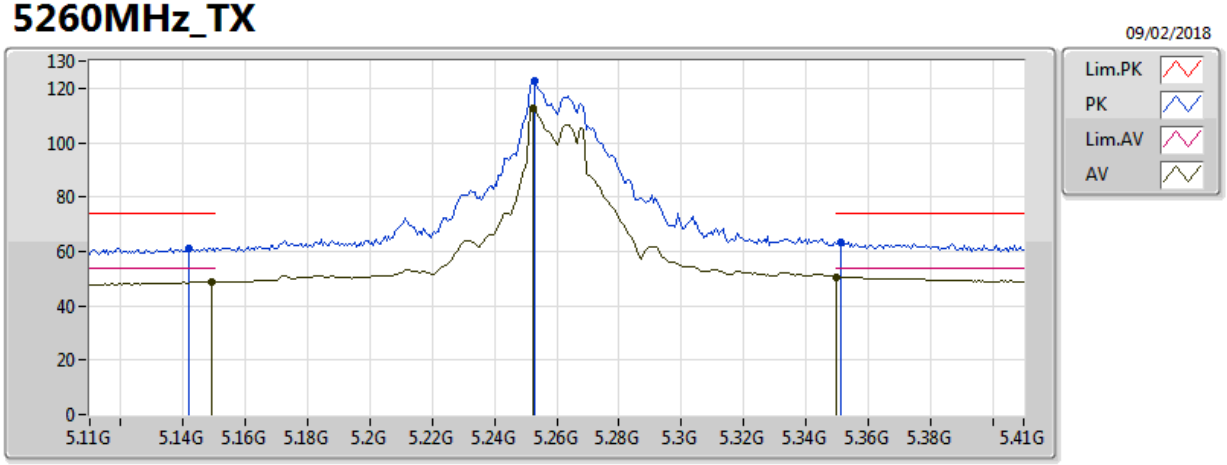
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.63	0.63	-4.86	-5.17	-5.69	-5.42

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	AV	5.3524G	53.97	54.00	-0.03	10.96	3	Vertical	165	1.03	-

802.11a_Nss1,(6Mbps)_4TX

5260MHz_TX

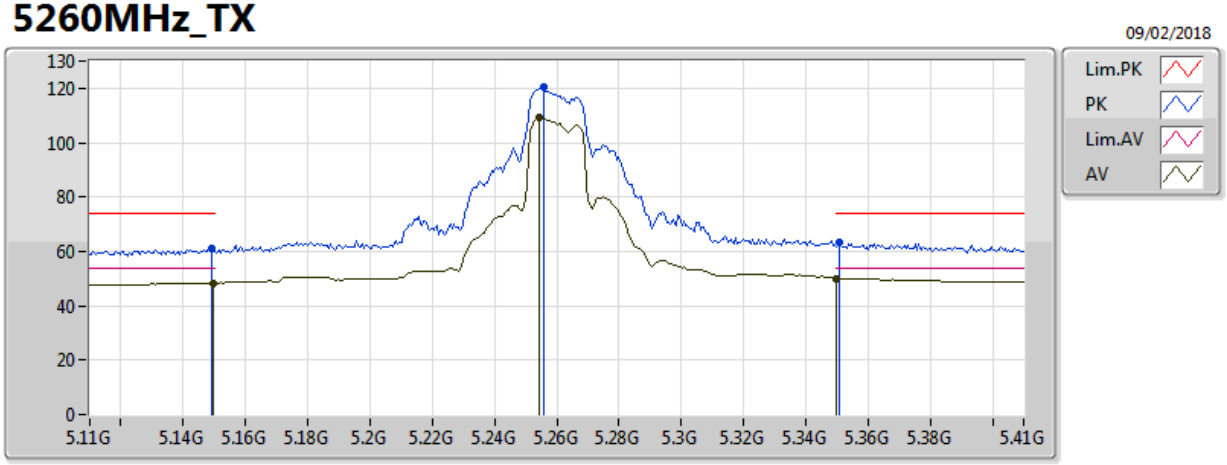


20180209
EUT Y_4TX
Setting 100
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.149G	48.76	54.00	-5.24	9.90	3	Vertical	166	2.01
AV	5.2522G	112.56	Inf	-Inf	10.34	3	Vertical	166	2.01
AV	5.350005G	50.52	54.00	-3.48	10.95	3	Vertical	166	2.01
PK	5.1418G	61.34	74.00	-12.66	9.88	3	Vertical	166	2.01
PK	5.2528G	122.60	Inf	-Inf	10.35	3	Vertical	166	2.01
PK	5.3512G	63.55	74.00	-10.45	10.96	3	Vertical	166	2.01

802.11a_Nss1,(6Mbps)_4TX

5260MHz_TX

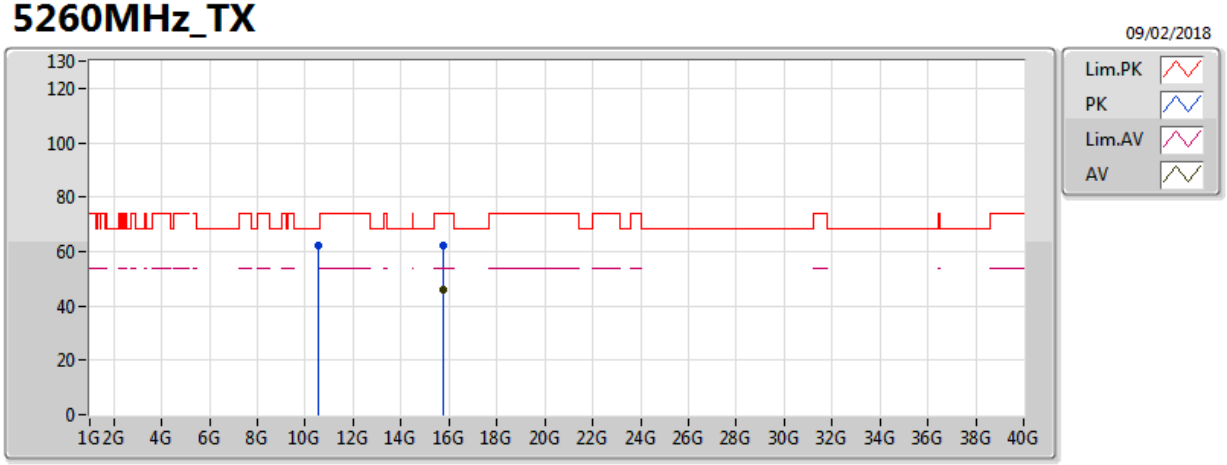


20180209
EUT Y_4TX
Setting 100
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1496G	48.46	54.00	-5.54	9.90	3	Horizontal	320	2.36
AV	5.2546G	109.34	Inf	-Inf	10.36	3	Horizontal	320	2.36
AV	5.350005G	50.10	54.00	-3.90	10.95	3	Horizontal	320	2.36
PK	5.149G	61.20	74.00	-12.80	9.90	3	Horizontal	320	2.36
PK	5.2558G	120.34	Inf	-Inf	10.37	3	Horizontal	320	2.36
PK	5.3506G	63.51	74.00	-10.49	10.95	3	Horizontal	320	2.36

802.11a_Nss1,(6Mbps)_4TX

5260MHz_TX

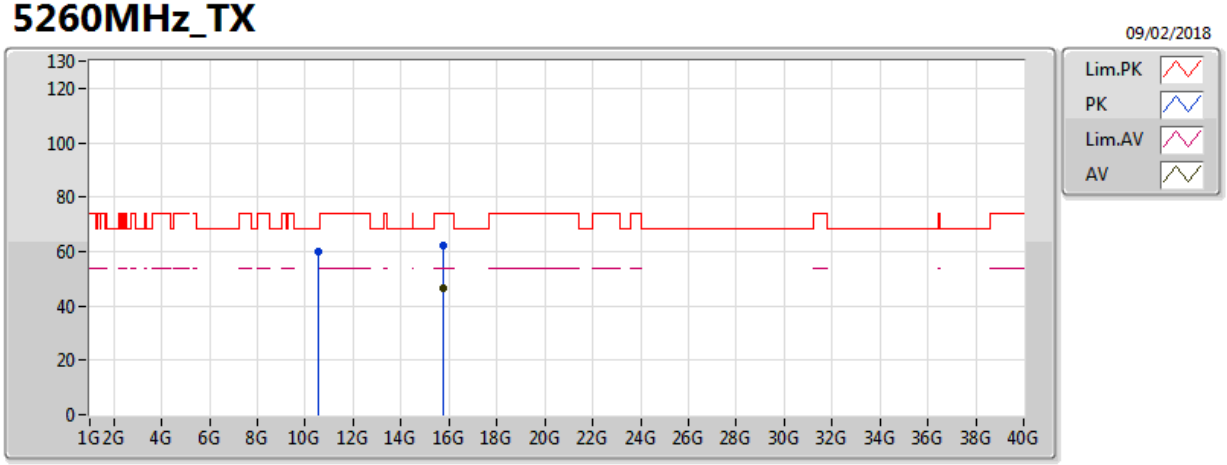


20180209
EUT Y_4TX
Setting 100
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.78108G	46.18	54.00	-7.82	18.28	3	Vertical	8	1.26
PK	10.5128G	62.35	68.20	-5.85	14.73	3	Vertical	202	1.56
PK	15.7812G	62.15	74.00	-11.85	18.28	3	Vertical	8	1.26

802.11a_Nss1,(6Mbps)_4TX

5260MHz_TX

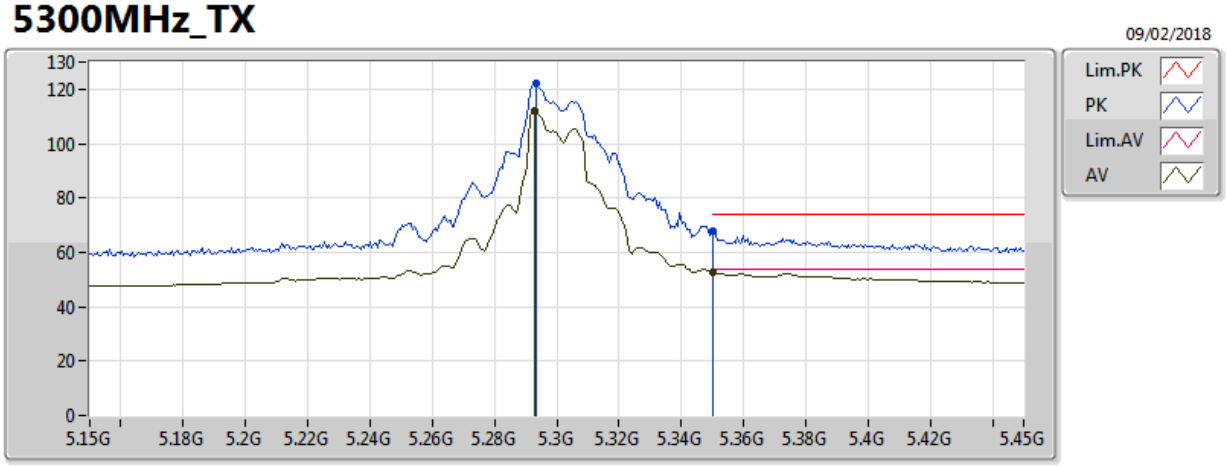


20180209
EUT Y_4TX
Setting 100
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.77748G	46.39	54.00	-7.61	18.28	3	Horizontal	202	1.87
PK	10.52426G	59.78	68.20	-8.42	14.73	3	Horizontal	78	2.42
PK	15.77628G	61.94	74.00	-12.06	18.28	3	Horizontal	202	1.87

802.11a_Nss1,(6Mbps)_4TX

5300MHz_TX

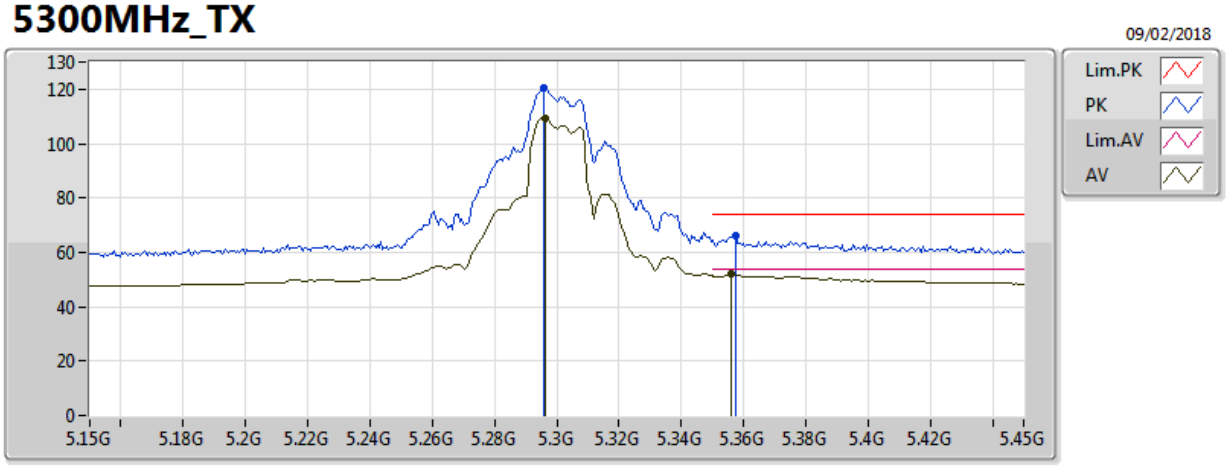


20180209
EUT Y_4TX
Setting 100
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.2928G	111.95	Inf	-Inf	10.60	3	Vertical	173	1.01
AV	5.350005G	52.83	54.00	-1.17	10.95	3	Vertical	173	1.01
PK	5.2934G	122.33	Inf	-Inf	10.60	3	Vertical	173	1.01
PK	5.350005G	67.95	74.00	-6.05	10.95	3	Vertical	173	1.01

802.11a_Nss1,(6Mbps)_4TX

5300MHz_TX

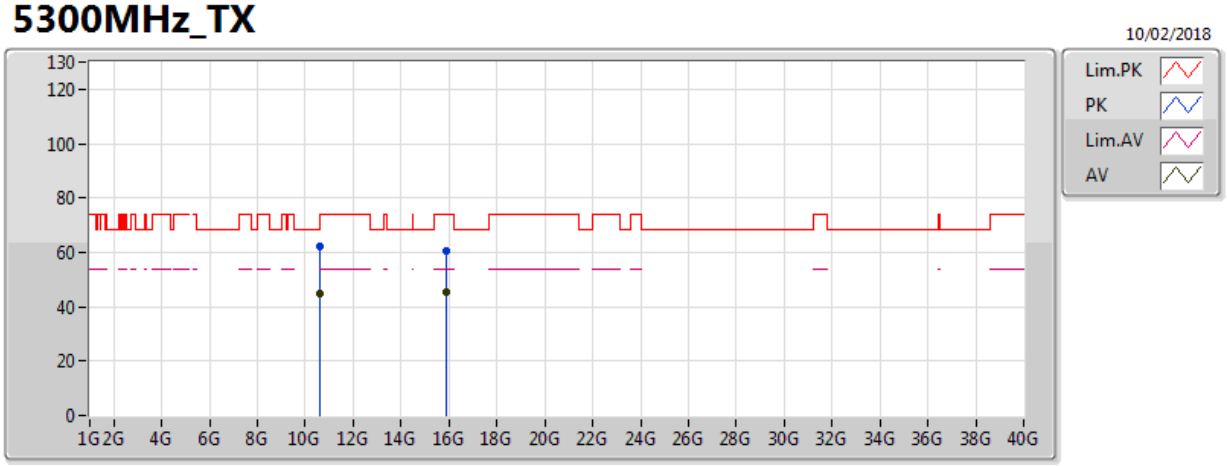


20180209
EUT Y_4TX
Setting 100
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.2964G	109.29	Inf	-Inf	10.62	3	Horizontal	308	2.33
AV	5.3558G	51.87	54.00	-2.13	10.99	3	Horizontal	308	2.33
PK	5.2958G	120.60	Inf	-Inf	10.61	3	Horizontal	308	2.33
PK	5.3576G	65.93	74.00	-8.07	11.00	3	Horizontal	308	2.33

802.11a_Nss1,(6Mbps)_4TX

5300MHz_TX

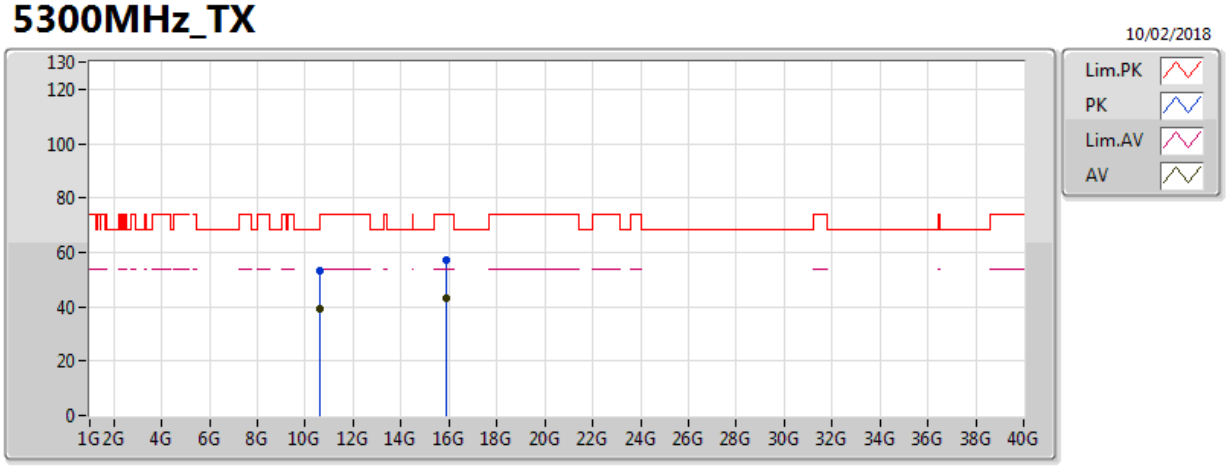


20180209
EUT Y_4TX
Setting 100
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	10.60744G	44.61	54.00	-9.39	14.73	3	Vertical	320	2.08
AV	15.89664G	45.53	54.00	-8.47	18.08	3	Vertical	282	1.96
PK	10.60274G	62.05	74.00	-11.95	14.73	3	Vertical	320	2.08
PK	15.90672G	60.39	74.00	-13.61	18.07	3	Vertical	282	1.96

802.11a_Nss1,(6Mbps)_4TX

5300MHz_TX

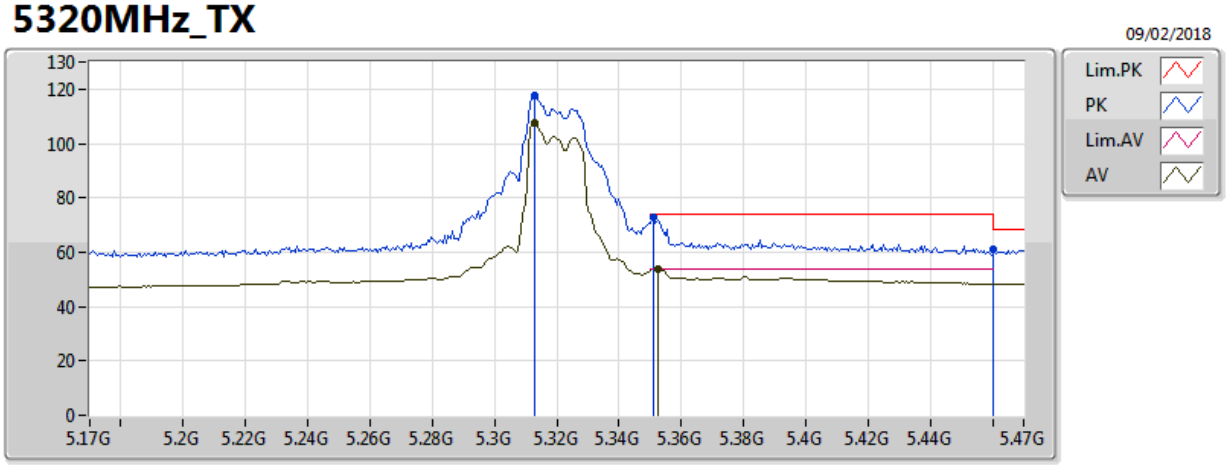


20180209
EUT Y_4TX
Setting 100
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	10.60582G	39.47	54.00	-14.53	14.73	3	Horizontal	167	1.71
AV	15.89874G	43.00	54.00	-11.00	18.08	3	Horizontal	271	1.25
PK	10.60088G	53.51	74.00	-20.49	14.73	3	Horizontal	167	1.71
PK	15.90612G	56.88	74.00	-17.12	18.07	3	Horizontal	271	1.25

802.11a_Nss1,(6Mbps)_4TX

5320MHz_TX

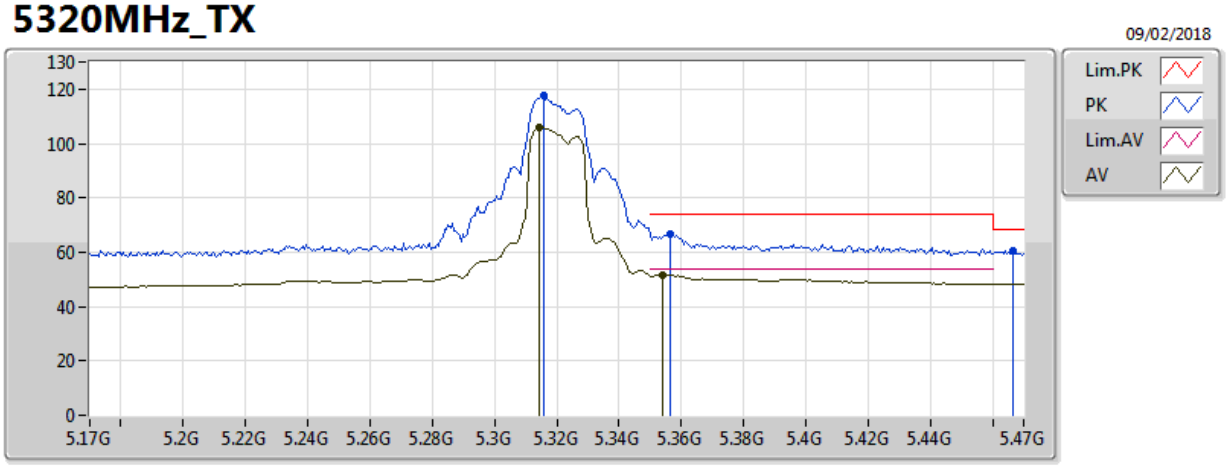


20180209
EUT Y_4TX
Setting 85
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.3128G	107.35	Inf	-Inf	10.72	3	Vertical	165	1.03
AV	5.3524G	53.97	54.00	-0.03	10.96	3	Vertical	165	1.03
PK	5.3128G	117.49	Inf	-Inf	10.72	3	Vertical	165	1.03
PK	5.3512G	72.89	74.00	-1.11	10.96	3	Vertical	165	1.03
PK	5.4604G	60.84	68.20	-7.36	11.08	3	Vertical	165	1.03

802.11a_Nss1,(6Mbps)_4TX

5320MHz_TX

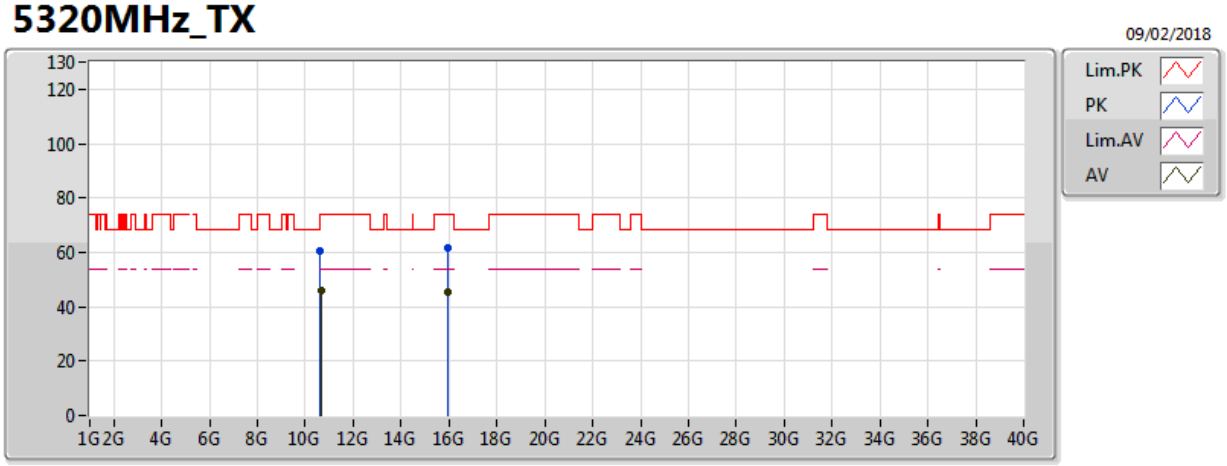


20180209
EUT Y_4TX
Setting 85
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.3146G	106.11	Inf	-Inf	10.73	3	Horizontal	317	2.23
AV	5.3542G	51.78	54.00	-2.22	10.98	3	Horizontal	317	2.23
PK	5.3158G	117.88	Inf	-Inf	10.74	3	Horizontal	317	2.23
PK	5.3566G	66.88	74.00	-7.12	10.99	3	Horizontal	317	2.23
PK	5.4664G	60.42	68.20	-7.78	11.06	3	Horizontal	317	2.23

802.11a_Nss1,(6Mbps)_4TX

5320MHz_TX

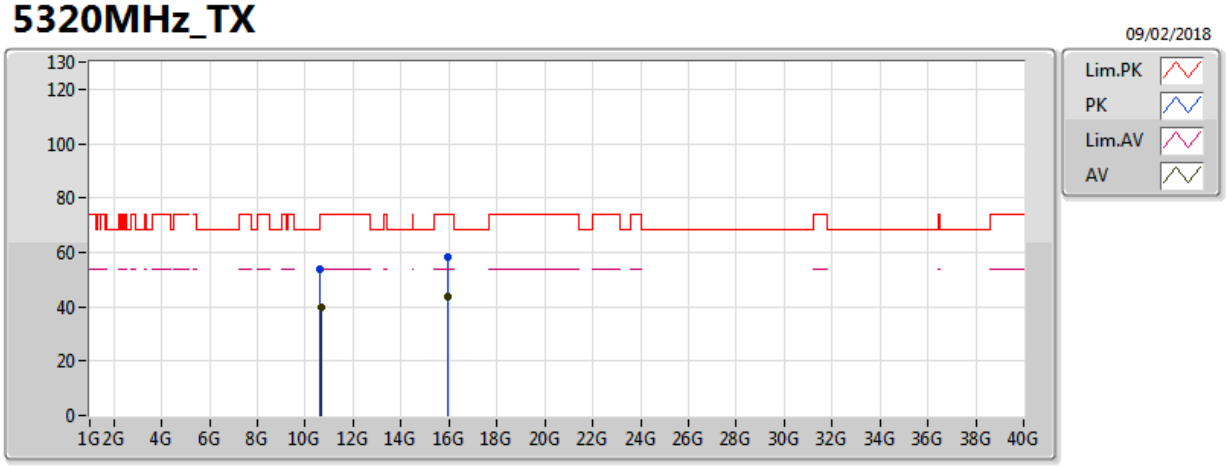


20180209
EUT Y_4TX
Setting 85
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	10.6439G	45.90	54.00	-8.10	14.74	3	Vertical	185	1.78
AV	15.95502G	45.38	54.00	-8.62	17.99	3	Vertical	301	1.78
PK	10.62992G	60.50	74.00	-13.50	14.74	3	Vertical	185	1.78
PK	15.96348G	61.68	74.00	-12.32	17.97	3	Vertical	301	1.78

802.11a_Nss1,(6Mbps)_4TX

5320MHz_TX

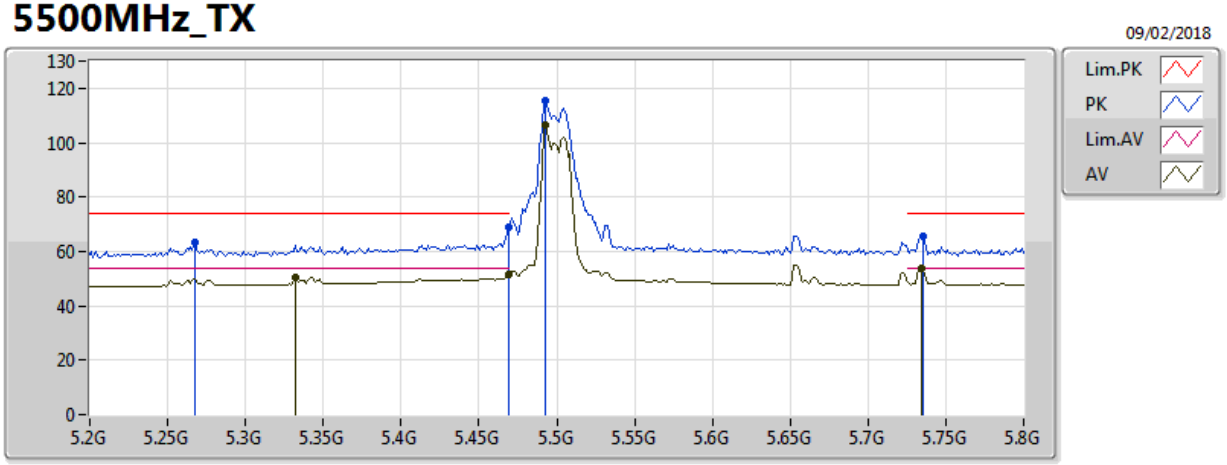


20180209
EUT Y_4TX
Setting 85
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	10.64624G	39.98	54.00	-14.02	14.74	3	Horizontal	4	1.46
AV	15.95334G	43.57	54.00	-10.43	17.99	3	Horizontal	123	2.18
PK	10.6325G	54.01	74.00	-19.99	14.74	3	Horizontal	4	1.46
PK	15.9519G	58.33	74.00	-15.67	17.99	3	Horizontal	123	2.18

802.11a_Nss1,(6Mbps)_4TX

5500MHz_TX

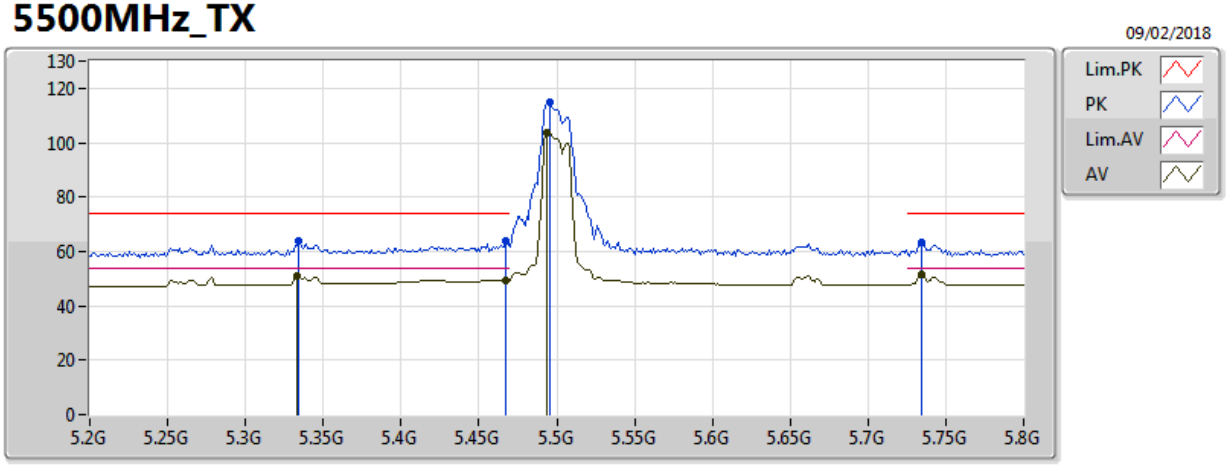


20180209
EUT Y_4TX
Setting 72
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.332G	50.45	54.00	-3.55	10.84	3	Vertical	165	2.22
AV	5.4688G	51.55	54.00	-2.45	11.05	3	Vertical	165	2.22
AV	5.4928G	106.24	Inf	-Inf	10.98	3	Vertical	165	2.22
AV	5.734G	53.65	54.00	-0.35	10.65	3	Vertical	165	2.22
PK	5.2672G	63.47	74.00	-10.53	10.44	3	Vertical	165	2.22
PK	5.4688G	68.71	74.00	-5.29	11.05	3	Vertical	165	2.22
PK	5.4928G	115.66	Inf	-Inf	10.98	3	Vertical	165	2.22
PK	5.7352G	65.40	74.00	-8.60	10.65	3	Vertical	165	2.22

802.11a_Nss1,(6Mbps)_4TX

5500MHz_TX

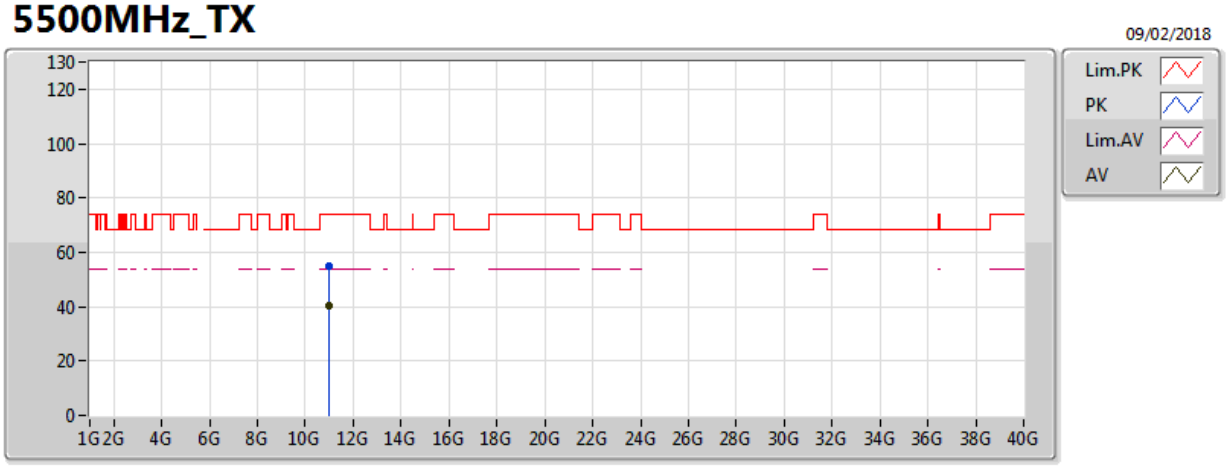


20180209
EUT Y_4TX
Setting 72
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.3332G	50.89	54.00	-3.11	10.85	3	Horizontal	320	2.23
AV	5.4676G	49.58	54.00	-4.42	11.06	3	Horizontal	320	2.23
AV	5.494G	103.80	Inf	-Inf	10.98	3	Horizontal	320	2.23
AV	5.734G	51.78	54.00	-2.22	10.65	3	Horizontal	320	2.23
PK	5.3344G	64.05	74.00	-9.95	10.85	3	Horizontal	320	2.23
PK	5.4676G	63.73	74.00	-10.27	11.06	3	Horizontal	320	2.23
PK	5.4952G	115.09	Inf	-Inf	10.97	3	Horizontal	320	2.23
PK	5.734G	63.38	74.00	-10.62	10.65	3	Horizontal	320	2.23

802.11a_Nss1,(6Mbps)_4TX

5500MHz_TX

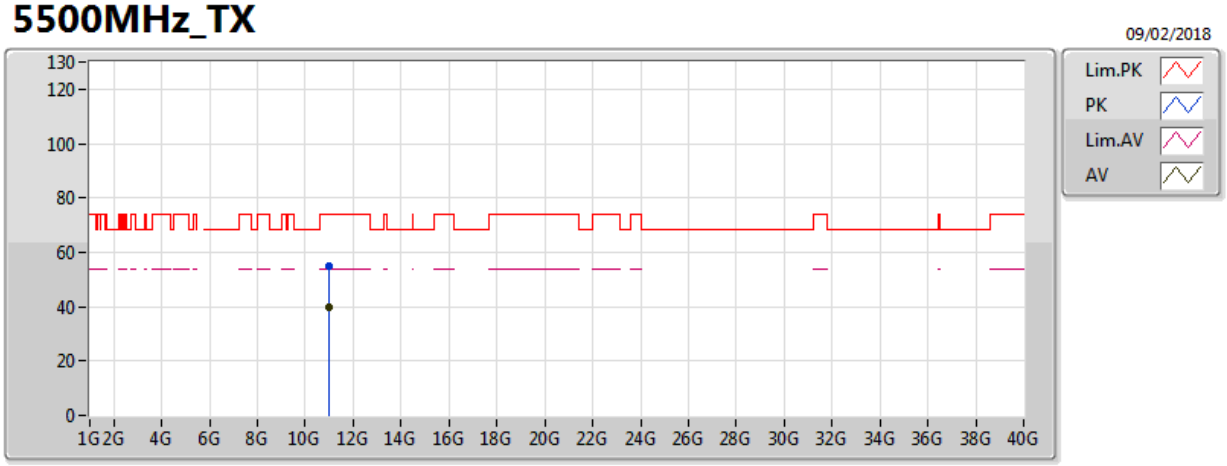


20180209
EUT Y_4TX
Setting 72
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.00858G	40.50	54.00	-13.50	14.78	3	Vertical	297	2.00
PK	11.00768G	54.87	74.00	-19.13	14.78	3	Vertical	297	2.00

802.11a_Nss1,(6Mbps)_4TX

5500MHz_TX

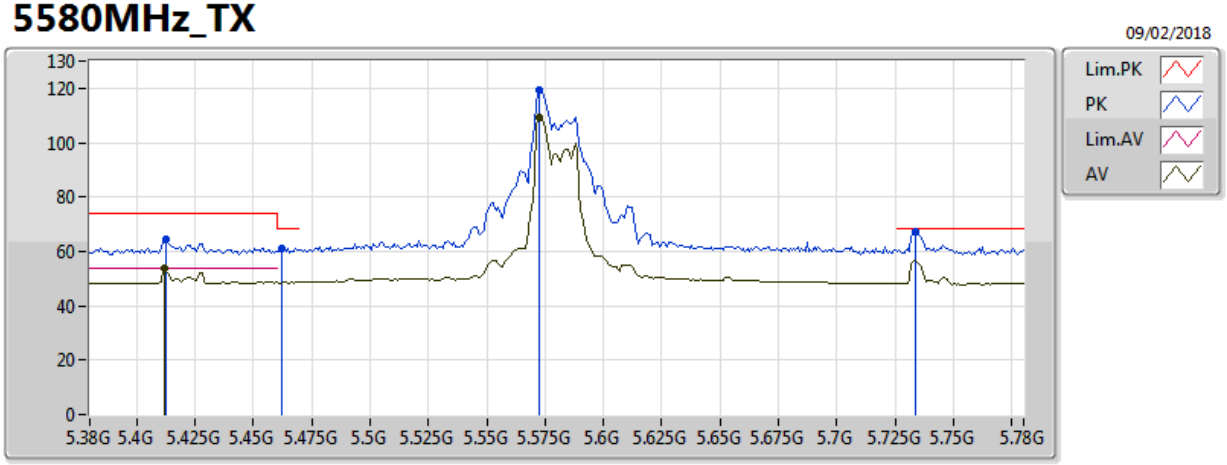


20180209
EUT Y_4TX
Setting 72
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.00324G	40.06	54.00	-13.94	14.77	3	Horizontal	268	1.13
PK	11.00528G	54.69	74.00	-19.31	14.78	3	Horizontal	268	1.13

802.11a_Nss1,(6Mbps)_4TX

5580MHz_TX

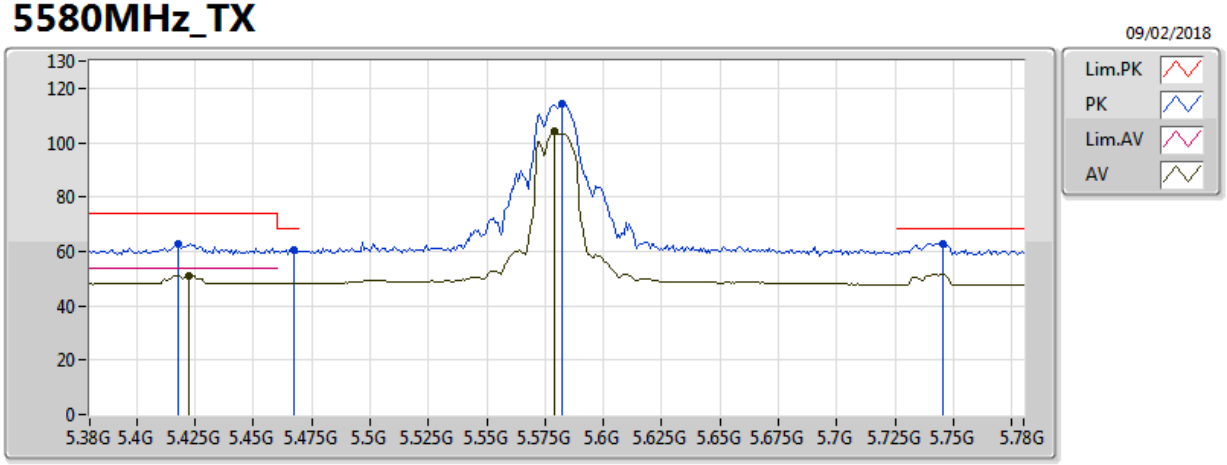


20180209
EUT Y_4TX
Setting 79
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.412G	53.92	54.00	-0.08	11.22	3	Vertical	173	2.13
AV	5.5728G	109.35	Inf	-Inf	10.63	3	Vertical	173	2.13
PK	5.4128G	64.55	74.00	-9.45	11.22	3	Vertical	173	2.13
PK	5.4624G	61.18	68.20	-7.02	11.07	3	Vertical	173	2.13
PK	5.5728G	119.53	Inf	-Inf	10.63	3	Vertical	173	2.13
PK	5.7336G	67.18	68.20	-1.02	10.65	3	Vertical	173	2.13

802.11a_Nss1,(6Mbps)_4TX

5580MHz_TX

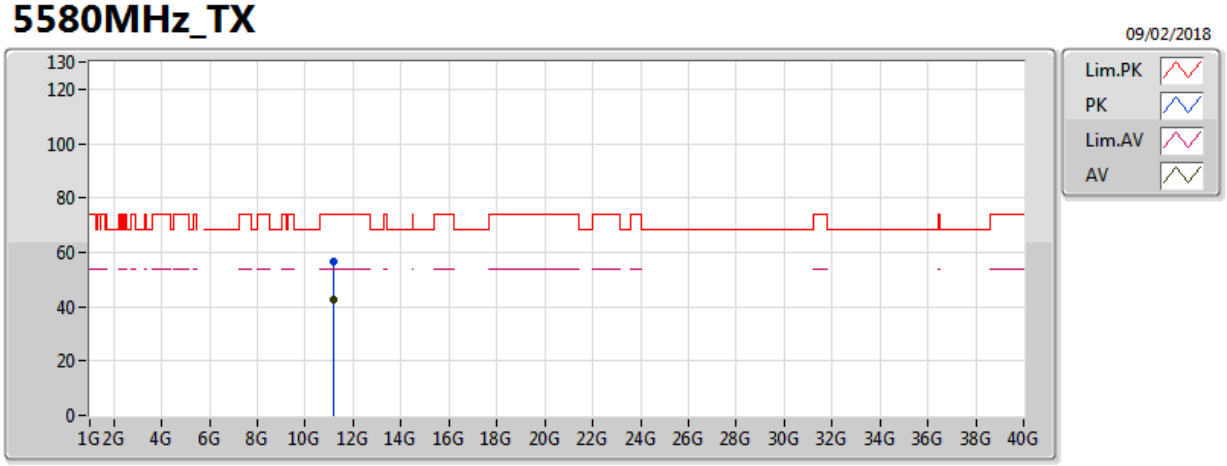


20180209
EUT Y_4TX
Setting 79
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.4224G	51.17	54.00	-2.83	11.19	3	Horizontal	73	2.07
AV	5.5792G	103.98	Inf	-Inf	10.60	3	Horizontal	73	2.07
PK	5.4176G	62.72	74.00	-11.28	11.21	3	Horizontal	73	2.07
PK	5.4672G	60.65	68.20	-7.55	11.06	3	Horizontal	73	2.07
PK	5.5824G	114.30	Inf	-Inf	10.58	3	Horizontal	73	2.07
PK	5.7456G	62.96	68.20	-5.24	10.66	3	Horizontal	73	2.07

802.11a_Nss1,(6Mbps)_4TX

5580MHz_TX

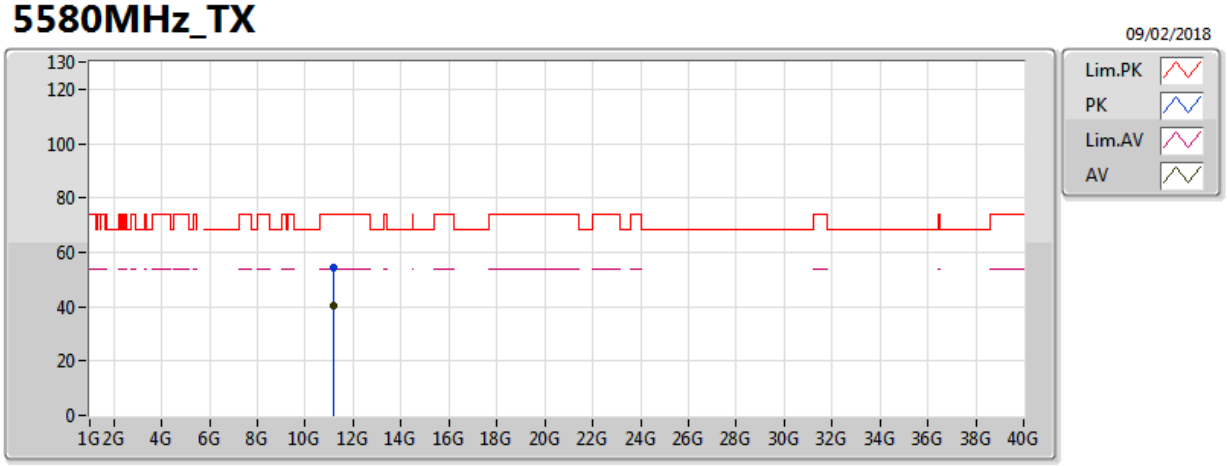


20180209
EUT Y_4TX
Setting 79
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.16402G	42.34	54.00	-11.66	14.99	3	Vertical	128	1.27
PK	11.1642G	56.51	74.00	-17.49	14.99	3	Vertical	128	1.27

802.11a_Nss1,(6Mbps)_4TX

5580MHz_TX

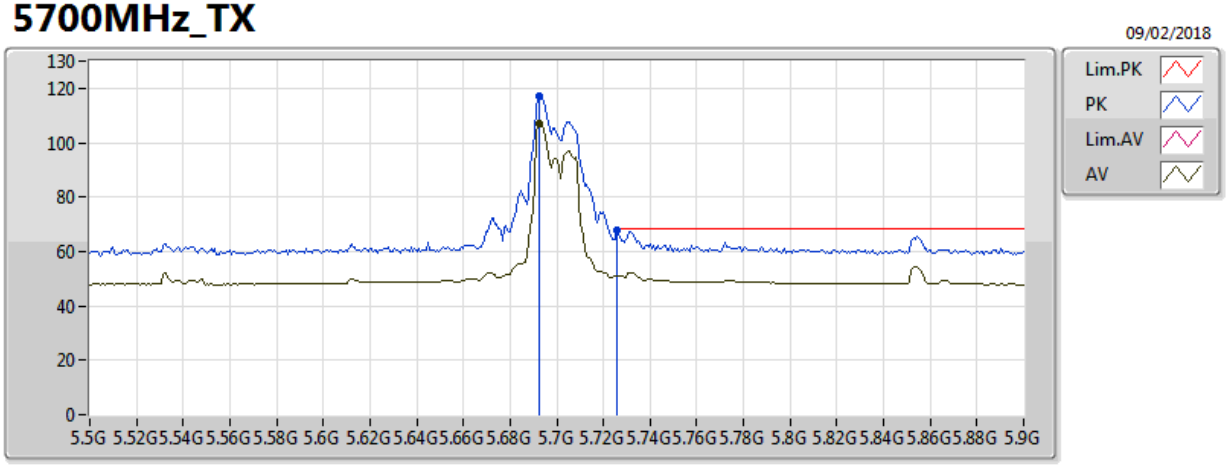


20180209
EUT Y_4TX
Setting 79
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.1609G	40.10	54.00	-13.90	14.99	3	Horizontal	245	2.01
PK	11.1594G	54.24	74.00	-19.76	14.99	3	Horizontal	245	2.01

802.11a_Nss1,(6Mbps)_4TX

5700MHz_TX

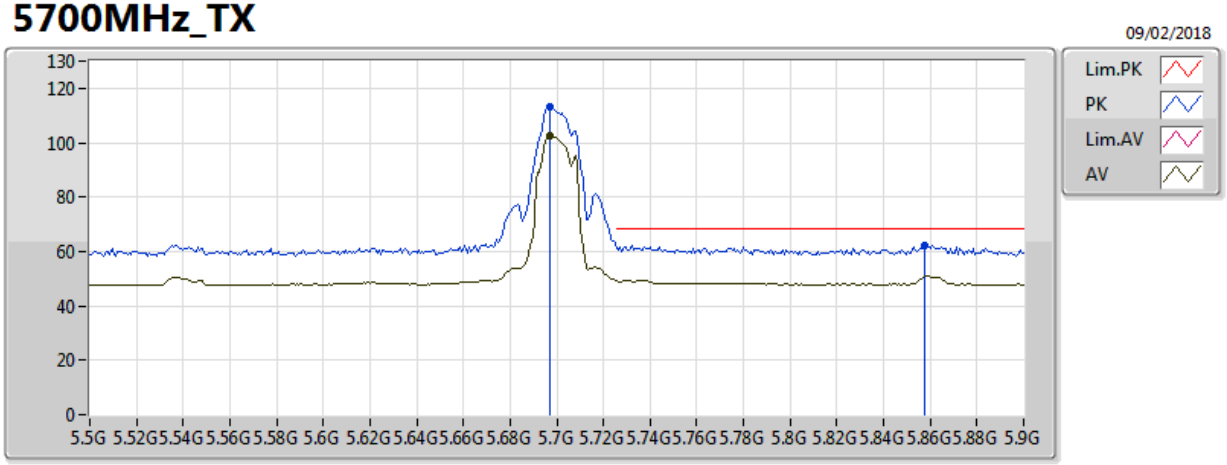


20180209
EUT Y_4TX
Setting 66
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.6928G	107.16	Inf	-Inf	10.59	3	Vertical	185	2.01
PK	5.6928G	117.22	Inf	-Inf	10.59	3	Vertical	185	2.01
PK	5.7256G	67.94	68.20	-0.26	10.64	3	Vertical	185	2.01

802.11a_Nss1,(6Mbps)_4TX

5700MHz_TX

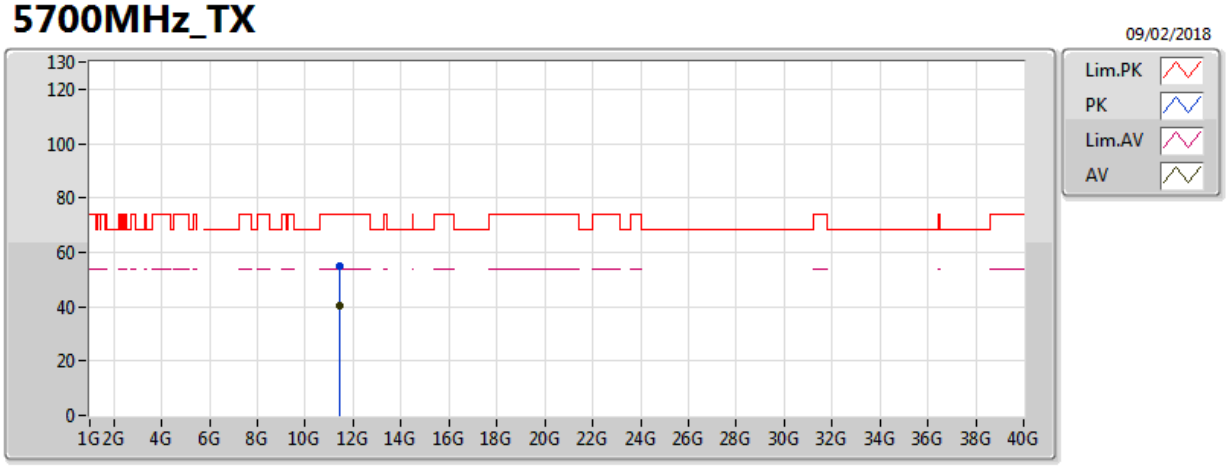


20180209
EUT Y_4TX
Setting 66
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.6968G	102.55	Inf	-Inf	10.60	3	Horizontal	53	2.81
PK	5.6968G	113.01	Inf	-Inf	10.60	3	Horizontal	53	2.81
PK	5.8576G	62.43	68.20	-5.77	10.90	3	Horizontal	53	2.81

802.11a_Nss1,(6Mbps)_4TX

5700MHz_TX

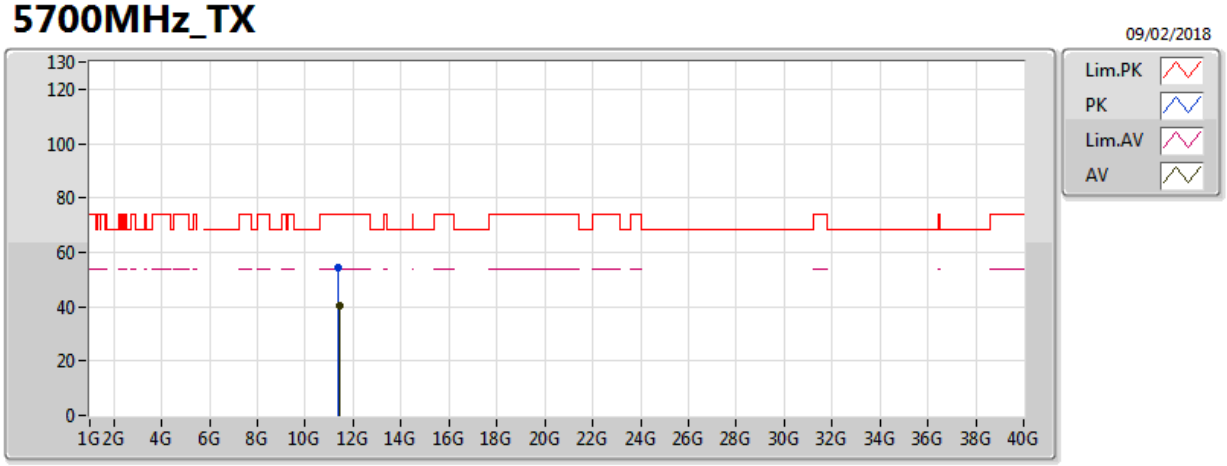


20180209
EUT Y_4TX
Setting 66
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.4147G	40.56	54.00	-13.44	15.34	3	Vertical	278	1.00
PK	11.41428G	54.76	74.00	-19.24	15.34	3	Vertical	278	1.00

802.11a_Nss1,(6Mbps)_4TX

5700MHz_TX

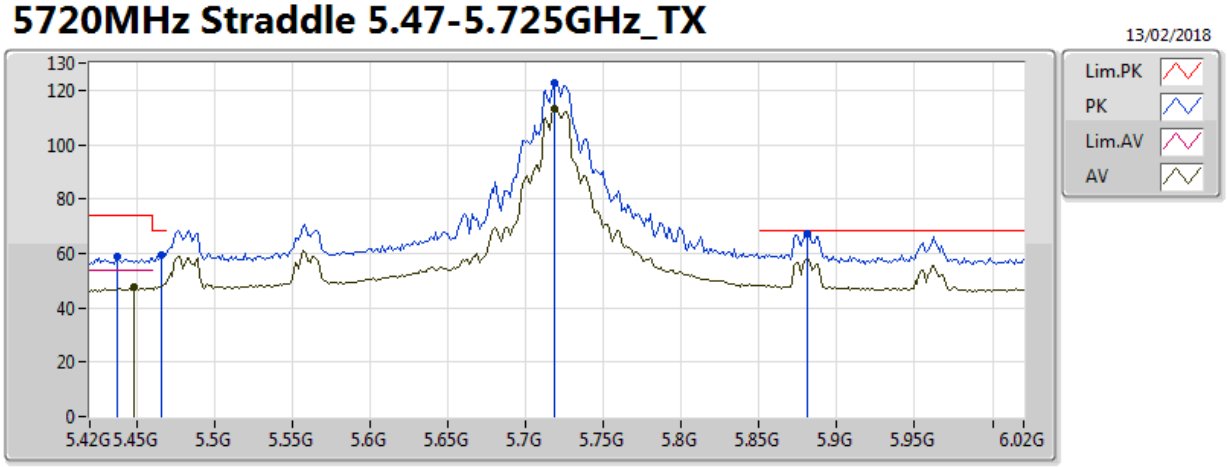


20180209
EUT Y_4TX
Setting 66
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.40894G	40.58	54.00	-13.42	15.33	3	Horizontal	56	2.26
PK	11.39454G	54.62	74.00	-19.38	15.31	3	Horizontal	56	2.26

802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz_TX

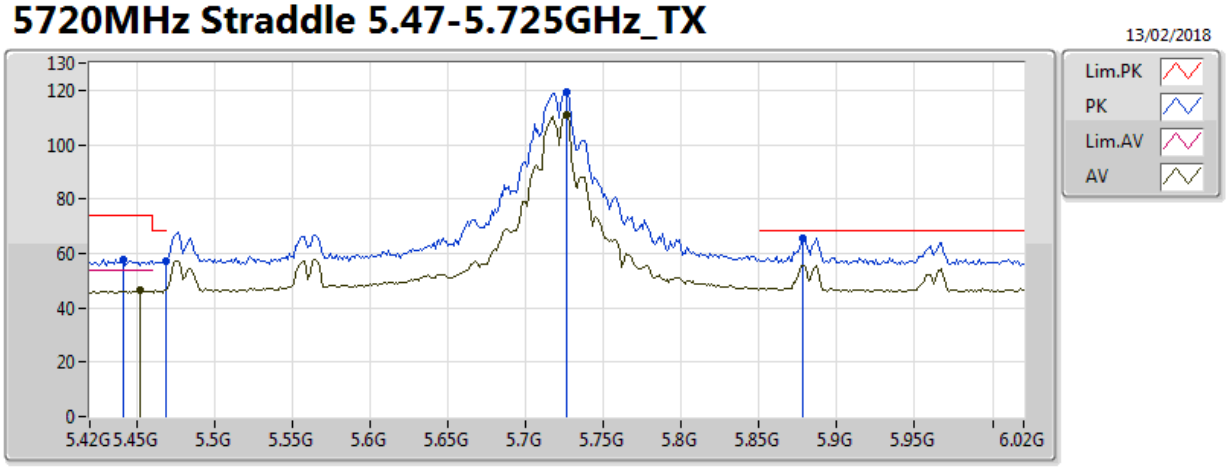


20170213
EUT Y_4TX
Setting
01-J-6-10
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.4488G	47.35	54.00	-6.65	5.89	3	Vertical	175	1.88	-
AV	5.7188G	113.29	Inf	-Inf	6.76	3	Vertical	175	1.88	-
PK	5.438G	58.58	74.00	-15.42	5.87	3	Vertical	175	1.88	-
PK	5.4656G	59.58	68.20	-8.62	5.93	3	Vertical	175	1.88	-
PK	5.7188G	122.69	Inf	-Inf	6.76	3	Vertical	175	1.88	-
PK	5.8808G	67.46	68.20	-0.74	7.25	3	Vertical	175	1.88	-

802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz_TX

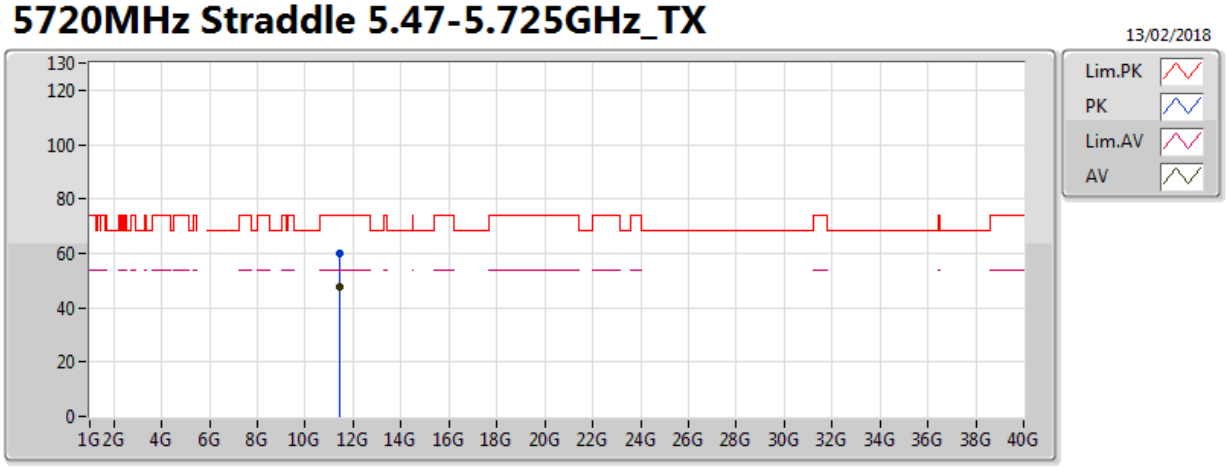


20170213
EUT Y_4TX
Setting 100
01-J-6-10
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.4524G	46.23	54.00	-7.77	5.90	3	Horizontal	74	2.01	-
AV	5.726G	110.73	Inf	-Inf	6.79	3	Horizontal	74	2.01	-
PK	5.4416G	57.99	74.00	-16.01	5.88	3	Horizontal	74	2.01	-
PK	5.4692G	57.36	68.20	-10.84	5.94	3	Horizontal	74	2.01	-
PK	5.726G	119.42	Inf	-Inf	6.79	3	Horizontal	74	2.01	-
PK	5.8784G	65.40	68.20	-2.80	7.25	3	Horizontal	74	2.01	-

802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz_TX

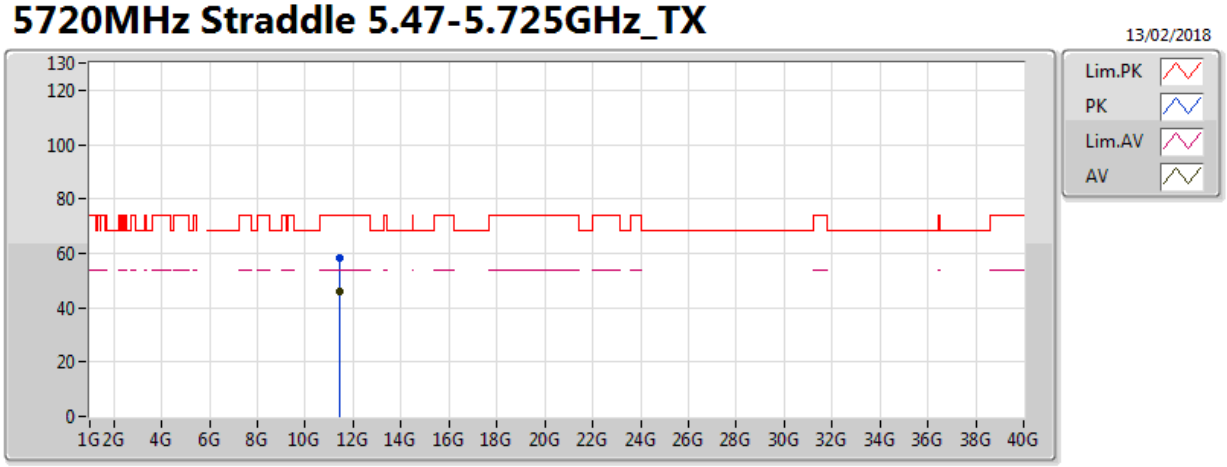


20170213
EUT Y_4TX
Setting 100
01-J-6
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.44294G	47.41	54.00	-6.59	13.32	3	Vertical	165	1.62	-
PK	11.44306G	59.97	74.00	-14.03	13.32	3	Vertical	165	1.62	-

802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz_TX

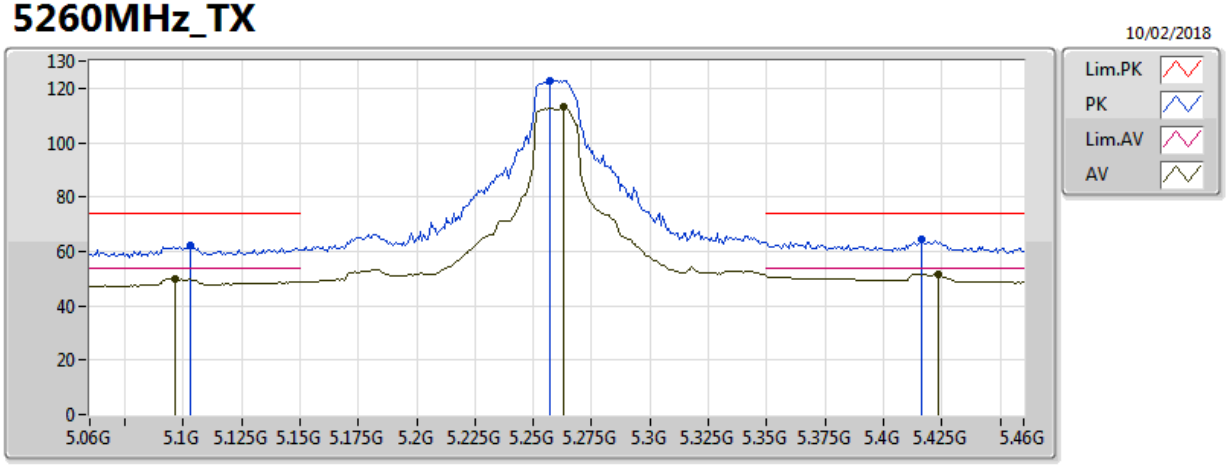


20170213
EUT Y_4TX
Setting 100
01-J-6
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.44492G	46.18	54.00	-7.82	13.32	3	Horizontal	264	2.20	-
PK	11.44576G	58.13	74.00	-15.87	13.32	3	Horizontal	264	2.20	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5260MHz_TX

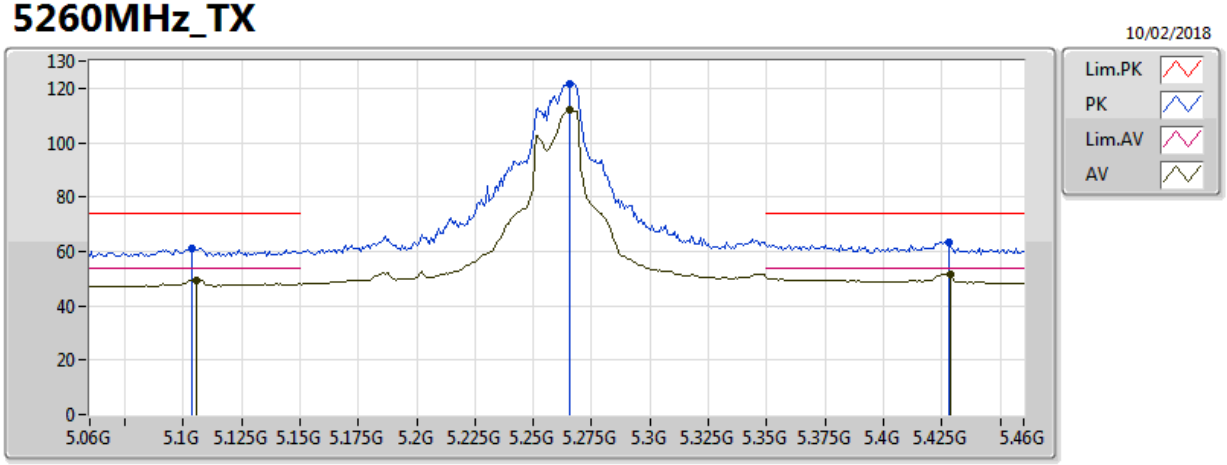


20180209
EUT Y_4TX
Setting 100
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.0968G	49.87	54.00	-4.13	9.77	3	Vertical	189	2.39
AV	5.2632G	113.36	Inf	-Inf	10.41	3	Vertical	189	2.39
AV	5.4232G	51.65	54.00	-2.35	11.19	3	Vertical	189	2.39
PK	5.1032G	62.29	74.00	-11.71	9.79	3	Vertical	189	2.39
PK	5.2568G	122.95	Inf	-Inf	10.37	3	Vertical	189	2.39
PK	5.416G	64.20	74.00	-9.80	11.21	3	Vertical	189	2.39

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5260MHz_TX

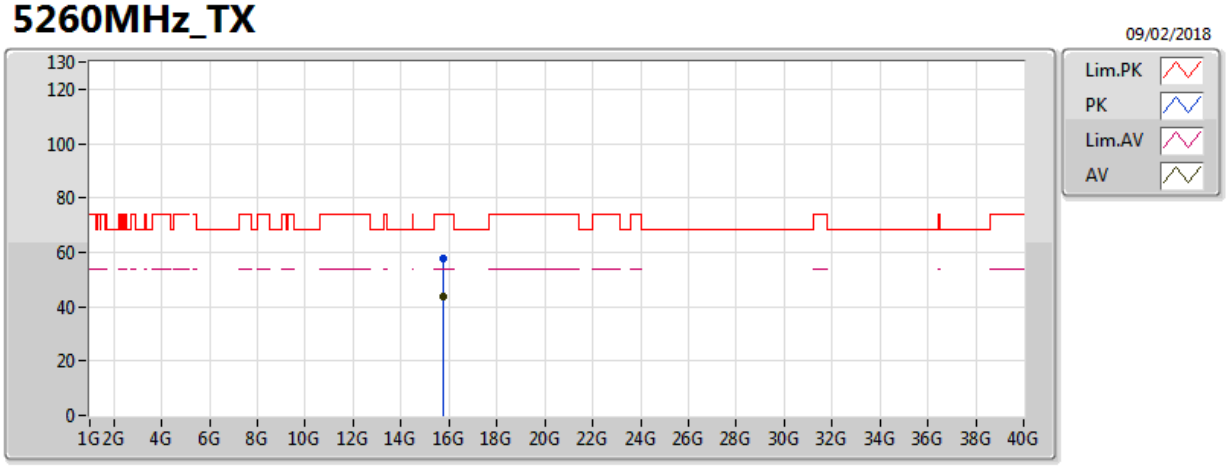


20180209
EUT Y_4TX
Setting 100
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1056G	49.56	54.00	-4.44	9.79	3	Horizontal	49	1.36
AV	5.2656G	111.88	Inf	-Inf	10.43	3	Horizontal	49	1.36
AV	5.4288G	51.83	54.00	-2.17	11.17	3	Horizontal	49	1.36
PK	5.104G	61.32	74.00	-12.68	9.79	3	Horizontal	49	1.36
PK	5.2656G	121.69	Inf	-Inf	10.43	3	Horizontal	49	1.36
PK	5.428G	63.50	74.00	-10.50	11.18	3	Horizontal	49	1.36

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5260MHz_TX

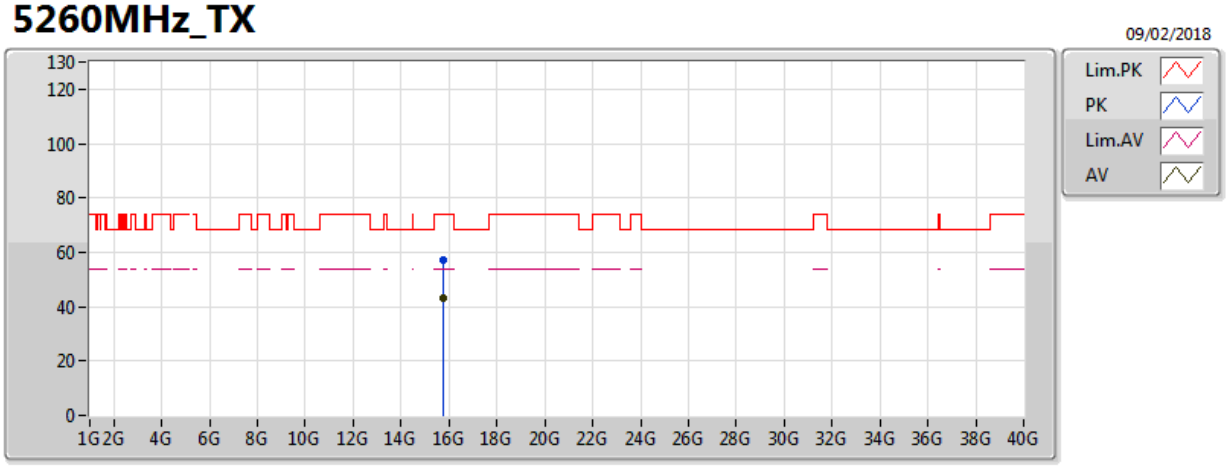


20180209
EUT Y_4TX
Setting 100
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.77424G	43.43	54.00	-10.57	18.29	3	Vertical	55	1.22
PK	15.77382G	57.52	74.00	-16.48	18.29	3	Vertical	55	1.22

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5260MHz_TX

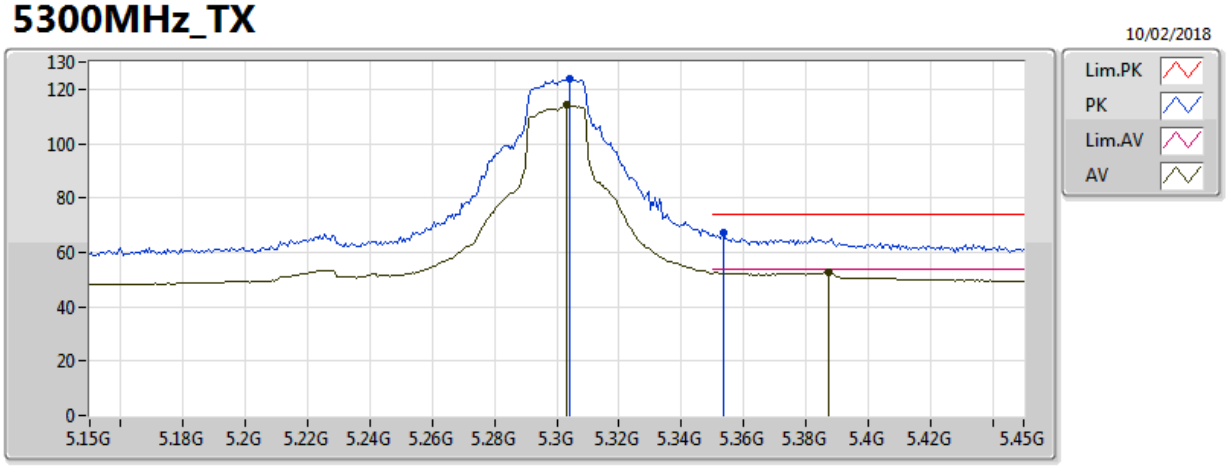


20180209
EUT Y_4TX
Setting 100
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.78294G	43.36	54.00	-10.64	18.27	3	Horizontal	295	1.31
PK	15.78372G	57.35	74.00	-16.65	18.27	3	Horizontal	295	1.31

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5300MHz_TX

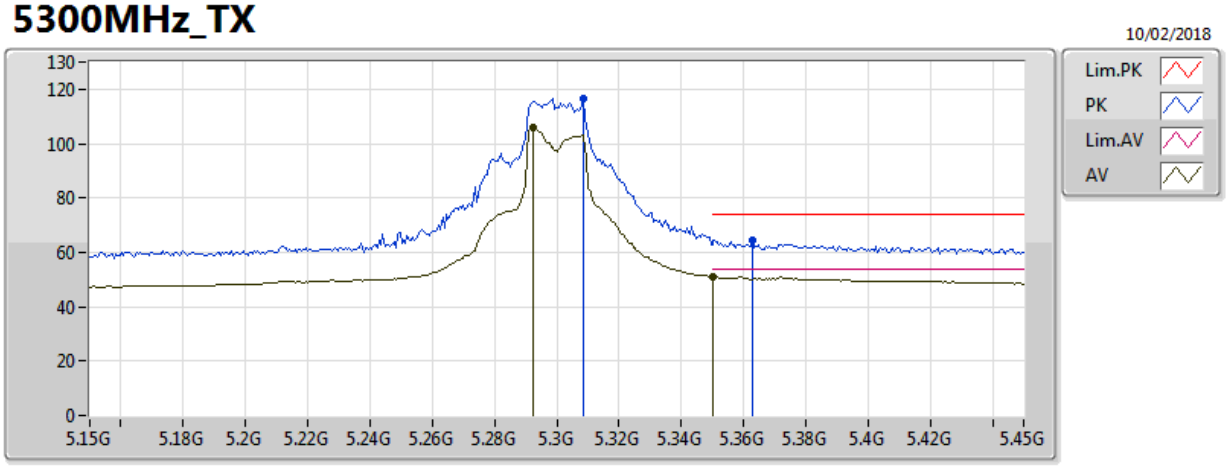


20180209
EUT Y_4TX
Setting 100
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.303G	114.12	Inf	-Inf	10.66	3	Vertical	144	1.82
AV	5.3876G	52.50	54.00	-1.50	11.18	3	Vertical	144	1.82
PK	5.3042G	124.01	Inf	-Inf	10.67	3	Vertical	144	1.82
PK	5.3534G	67.10	74.00	-6.90	10.97	3	Vertical	144	1.82

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5300MHz_TX

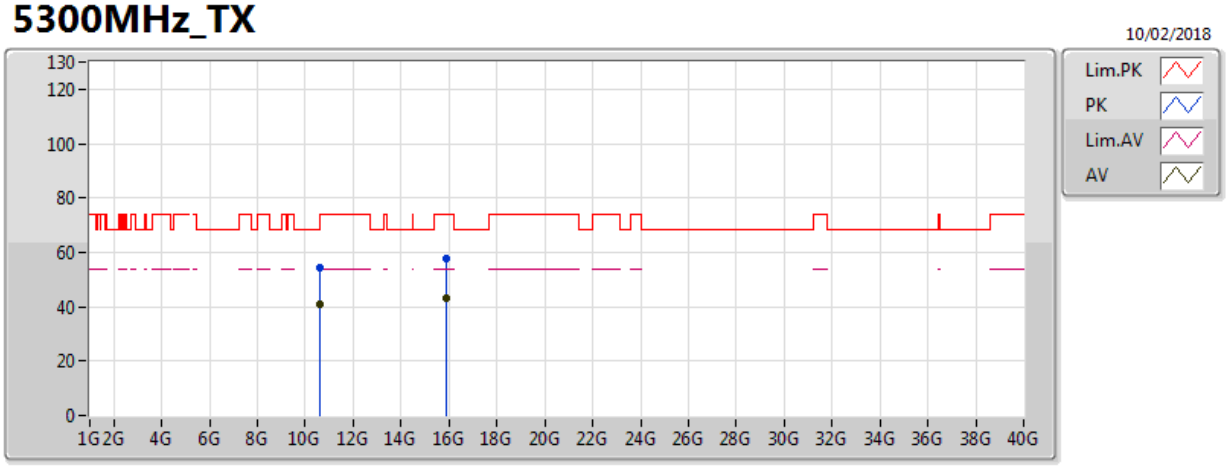


20180209
EUT Y_4TX
Setting 100
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.2922G	105.63	Inf	-Inf	10.59	3	Horizontal	185	1.68
AV	5.3504G	51.00	54.00	-3.00	10.95	3	Horizontal	185	1.68
PK	5.3084G	116.76	Inf	-Inf	10.69	3	Horizontal	185	1.68
PK	5.363G	64.50	74.00	-9.50	11.03	3	Horizontal	185	1.68

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5300MHz_TX

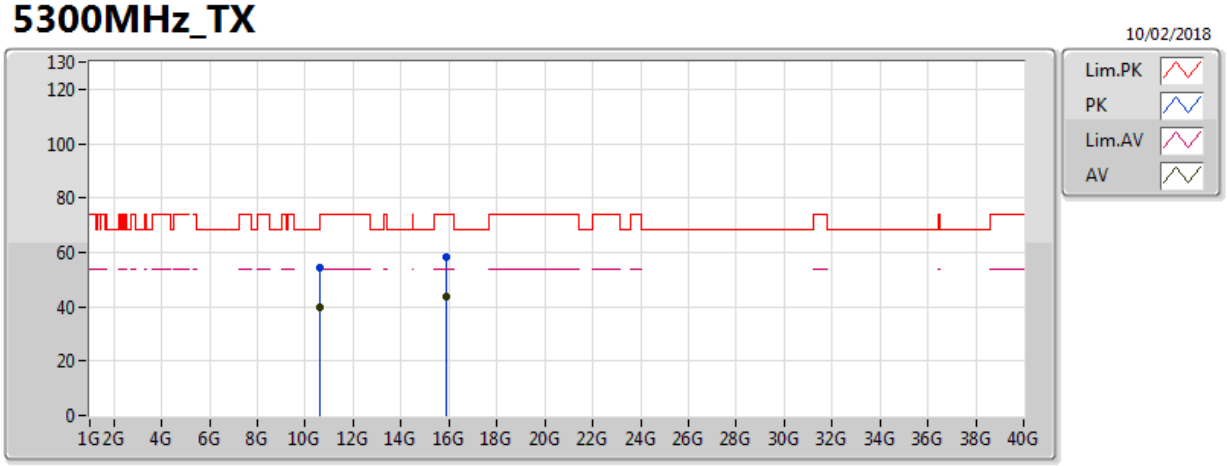


20180209
EUT Y_4TX
Setting 100
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	10.60298G	40.85	54.00	-13.15	14.73	3	Vertical	262	1.31
AV	15.89166G	43.22	54.00	-10.78	18.09	3	Vertical	213	1.40
PK	10.60508G	54.13	74.00	-19.87	14.73	3	Vertical	262	1.31
PK	15.91458G	57.98	74.00	-16.02	18.05	3	Vertical	213	1.40

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5300MHz_TX

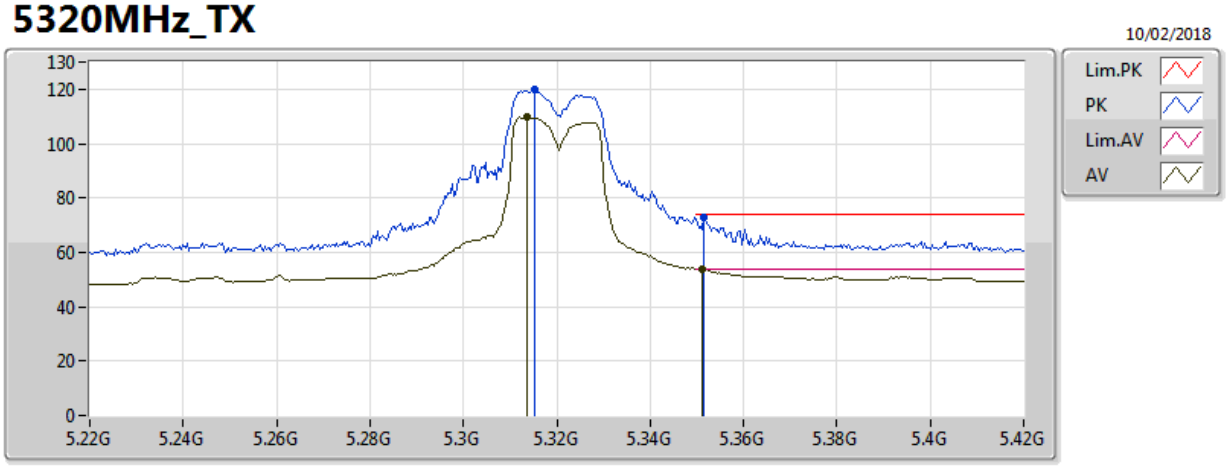


20180209
EUT Y_4TX
Setting 100
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	10.60642G	39.71	54.00	-14.29	14.73	3	Horizontal	285	2.01
AV	15.91164G	43.66	54.00	-10.34	18.06	3	Horizontal	326	2.23
PK	10.6079G	54.19	74.00	-19.81	14.73	3	Horizontal	285	2.01
PK	15.91464G	58.53	74.00	-15.47	18.05	3	Horizontal	326	2.23

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5320MHz_TX

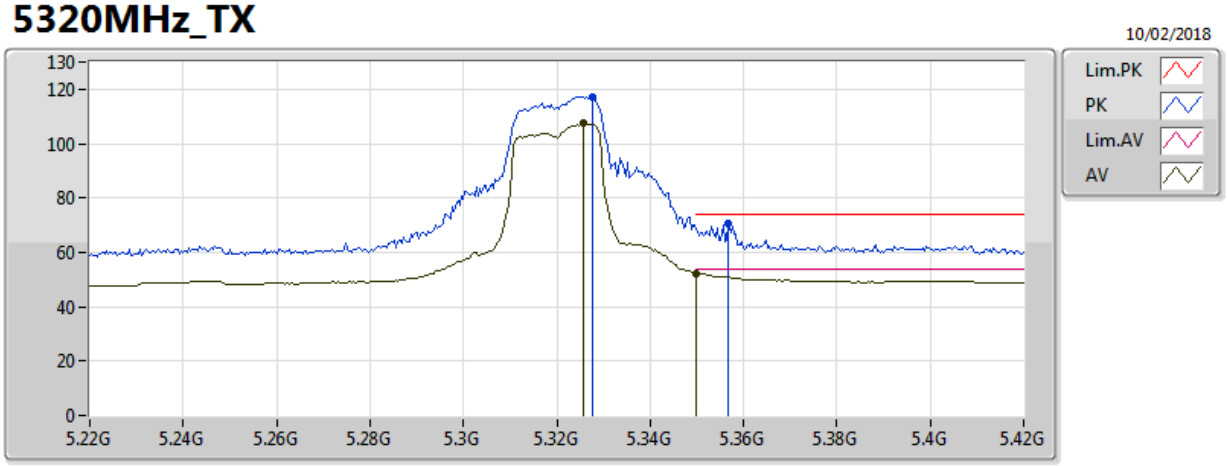


20180209
EUT Y_4TX
Setting 86
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.3136G	109.78	Inf	-Inf	10.72	3	Vertical	28	1.13
AV	5.3512G	53.91	54.00	-0.09	10.96	3	Vertical	28	1.13
PK	5.3152G	119.80	Inf	-Inf	10.73	3	Vertical	28	1.13
PK	5.3516G	73.08	74.00	-0.92	10.96	3	Vertical	28	1.13

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5320MHz_TX

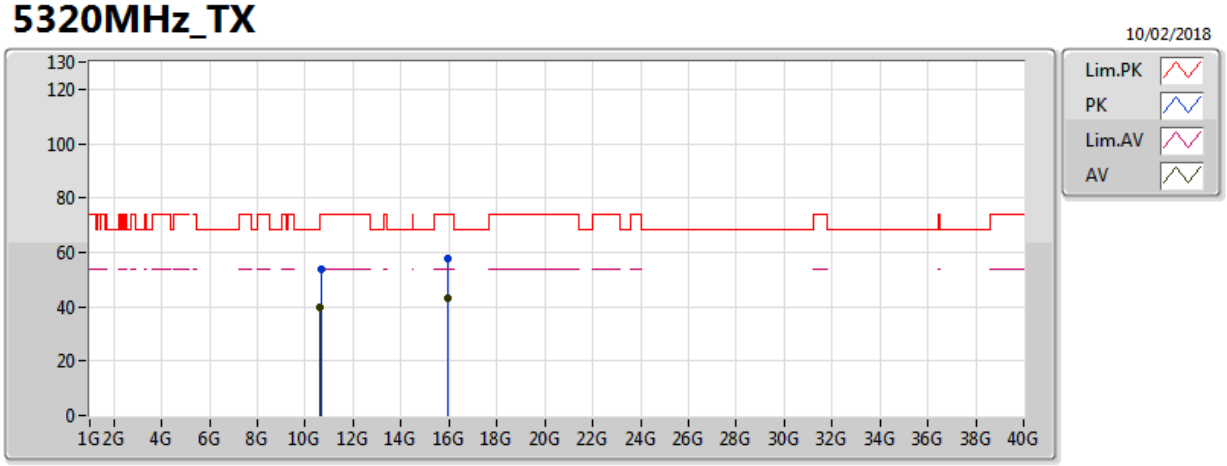


20180209
EUT Y_4TX
Setting 86
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.3256G	107.57	Inf	-Inf	10.80	3	Horizontal	142	1.34
AV	5.350005G	52.13	54.00	-1.87	10.95	3	Horizontal	142	1.34
PK	5.3276G	117.21	Inf	-Inf	10.81	3	Horizontal	142	1.34
PK	5.3568G	70.63	74.00	-3.37	10.99	3	Horizontal	142	1.34

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5320MHz_TX

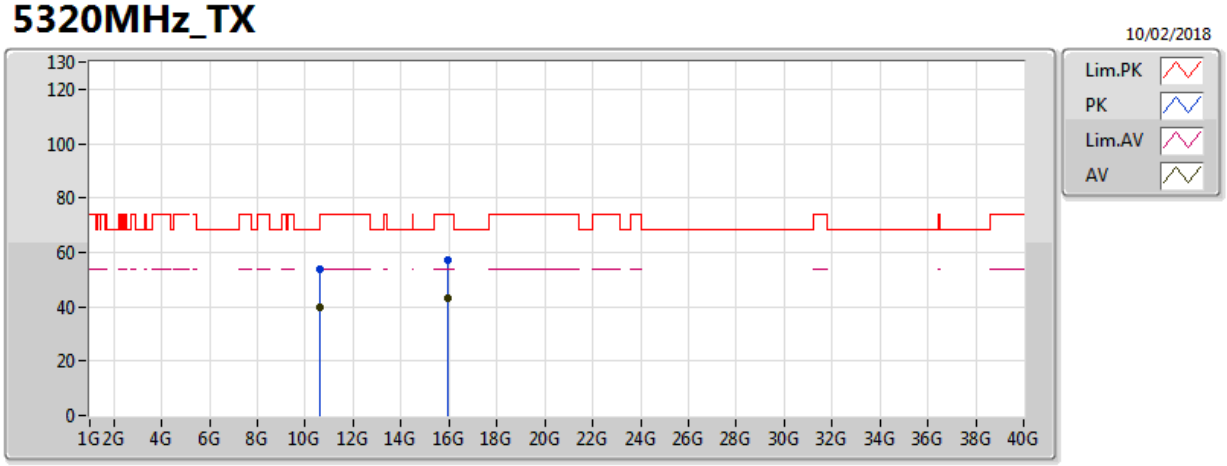


20180209
EUT Y_4TX
Setting 86
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	10.62632G	39.99	54.00	-14.01	14.74	3	Vertical	42	1.52
AV	15.94704G	43.06	54.00	-10.94	18.00	3	Vertical	174	1.72
PK	10.6517G	53.74	74.00	-20.26	14.74	3	Vertical	42	1.52
PK	15.96954G	57.66	74.00	-16.34	17.96	3	Vertical	174	1.72

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5320MHz_TX

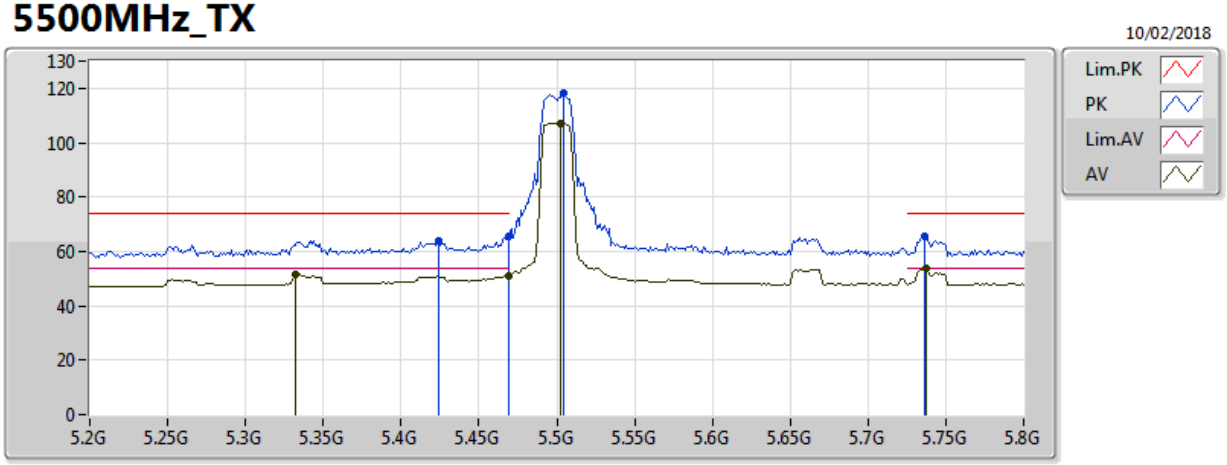


20180209
EUT Y_4TX
Setting 86
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	10.62806G	39.84	54.00	-14.16	14.74	3	Horizontal	300	2.15
AV	15.94698G	42.98	54.00	-11.02	18.00	3	Horizontal	156	2.39
PK	10.6277G	53.99	74.00	-20.01	14.74	3	Horizontal	300	2.15
PK	15.95292G	56.93	74.00	-17.07	17.99	3	Horizontal	156	2.39

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5500MHz_TX

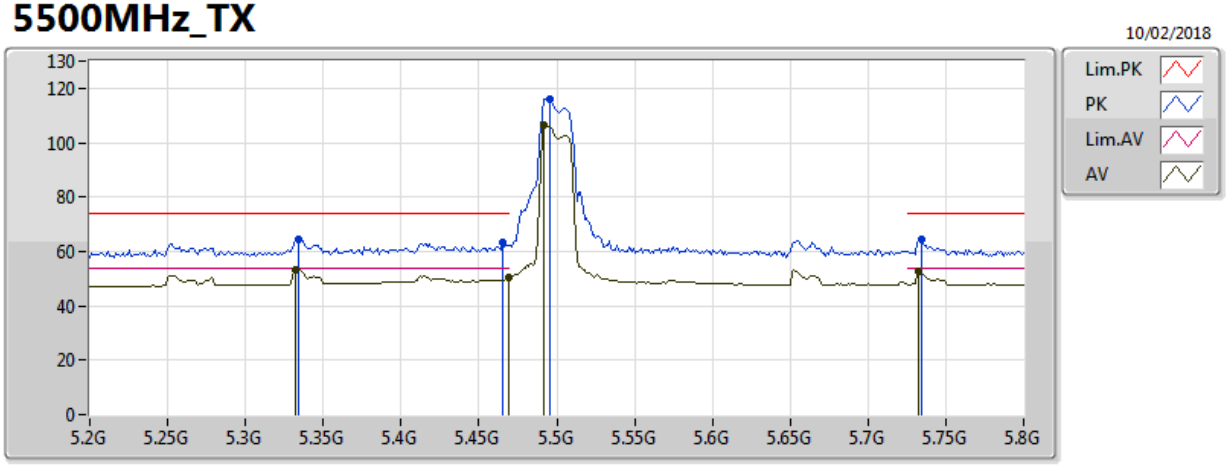


20180209
EUT Y_4TX
Setting 71
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.332G	51.42	54.00	-2.58	10.84	3	Vertical	327	1.64
AV	5.4688G	51.22	54.00	-2.78	11.05	3	Vertical	327	1.64
AV	5.5024G	107.20	Inf	-Inf	10.95	3	Vertical	327	1.64
AV	5.7376G	53.96	54.00	-0.04	10.65	3	Vertical	327	1.64
PK	5.4244G	63.80	74.00	-10.20	11.19	3	Vertical	327	1.64
PK	5.4688G	65.32	74.00	-8.68	11.05	3	Vertical	327	1.64
PK	5.5048G	118.17	Inf	-Inf	10.94	3	Vertical	327	1.64
PK	5.7364G	65.55	74.00	-8.45	10.65	3	Vertical	327	1.64

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5500MHz_TX

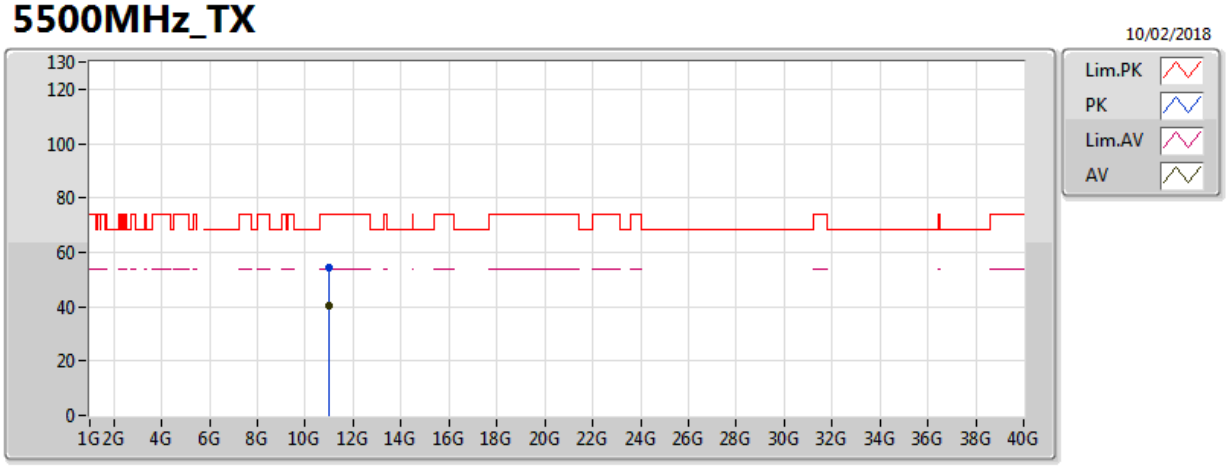


20180209
EUT Y_4TX
Setting 71
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.332G	53.26	54.00	-0.74	10.84	3	Horizontal	230	1.82
AV	5.4688G	50.26	54.00	-3.74	11.05	3	Horizontal	230	1.82
AV	5.4916G	106.68	Inf	-Inf	10.99	3	Horizontal	230	1.82
AV	5.7328G	52.41	54.00	-1.59	10.65	3	Horizontal	230	1.82
PK	5.3344G	64.67	74.00	-9.33	10.85	3	Horizontal	230	1.82
PK	5.4652G	63.46	74.00	-10.54	11.06	3	Horizontal	230	1.82
PK	5.4952G	116.25	Inf	-Inf	10.97	3	Horizontal	230	1.82
PK	5.734G	64.35	74.00	-9.65	10.65	3	Horizontal	230	1.82

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5500MHz_TX

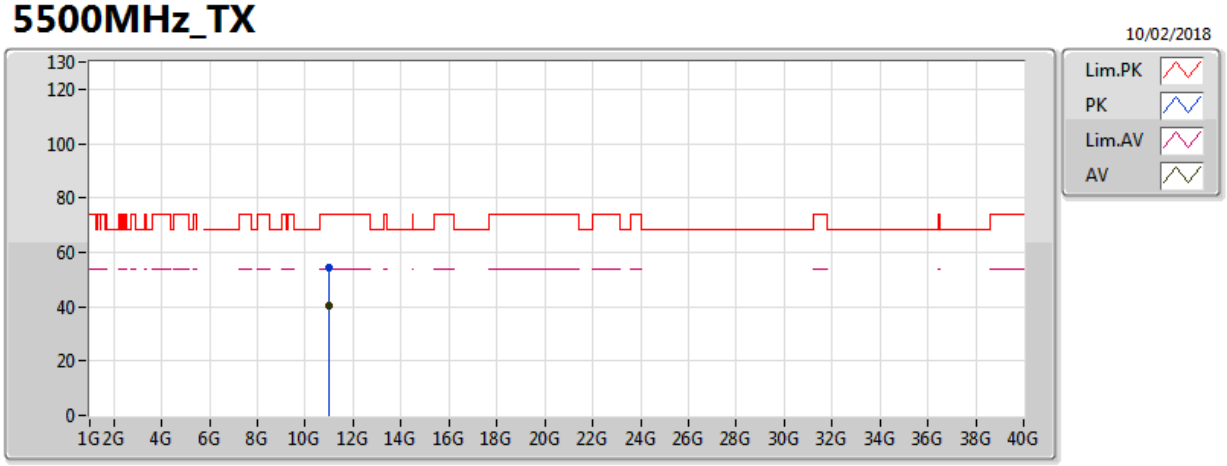


20180209
EUT Y_4TX
Setting 71
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.0072G	40.26	54.00	-13.74	14.78	3	Vertical	329	1.75
PK	11.01338G	54.33	74.00	-19.67	14.79	3	Vertical	329	1.75

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5500MHz_TX

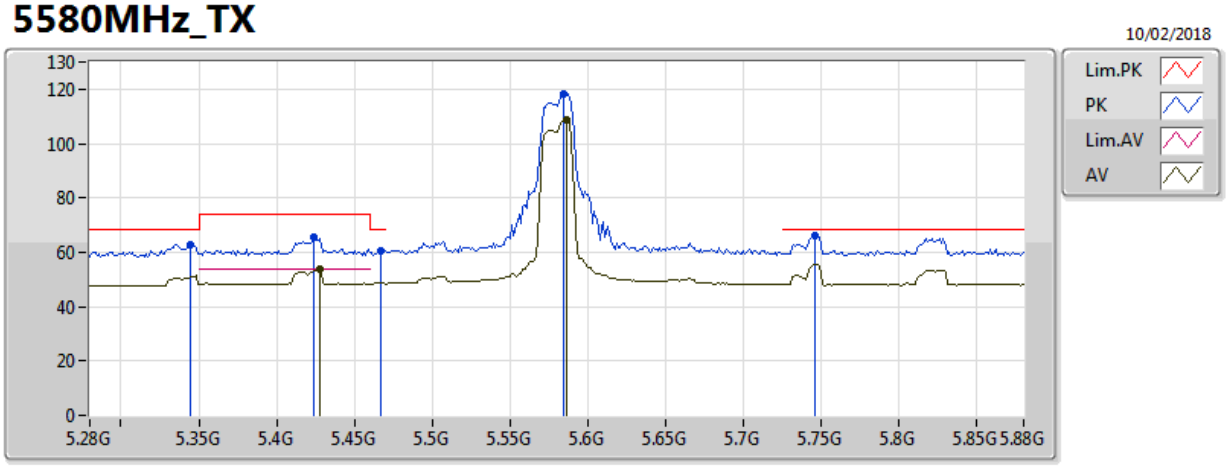


20180209
EUT Y_4TX
Setting 71
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	10.99556G	40.33	54.00	-13.67	14.77	3	Horizontal	346	1.34
PK	11.0036G	54.29	74.00	-19.71	14.77	3	Horizontal	346	1.34

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5580MHz_TX

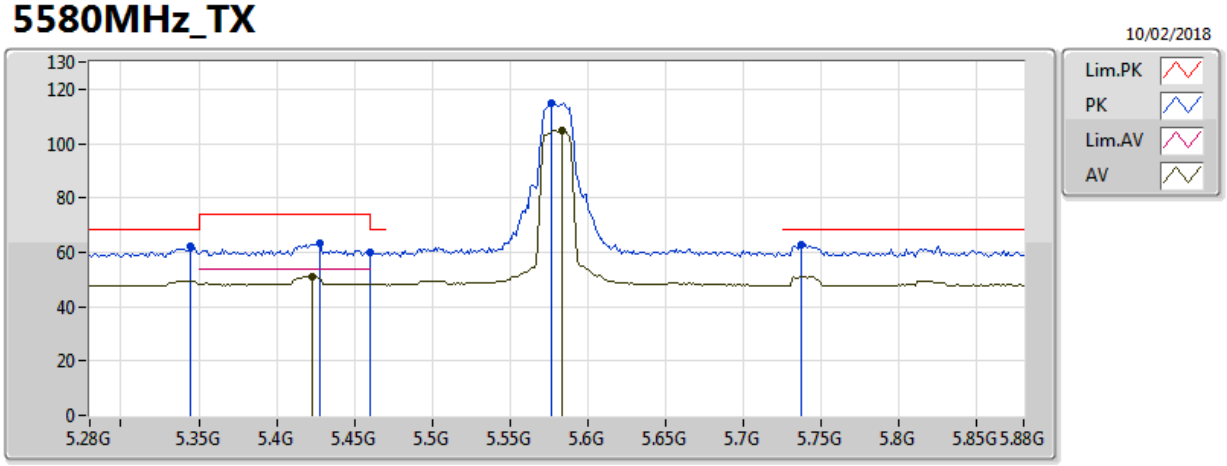


20180209
EUT Y_4TX
Setting 72
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.4276G	53.97	54.00	-0.03	11.18	3	Vertical	157	1.93
AV	5.586G	108.50	Inf	-Inf	10.56	3	Vertical	157	1.93
PK	5.3448G	62.67	68.20	-5.53	10.92	3	Vertical	157	1.93
PK	5.424G	65.77	74.00	-8.23	11.19	3	Vertical	157	1.93
PK	5.4672G	60.53	68.20	-7.67	11.06	3	Vertical	157	1.93
PK	5.5848G	118.51	Inf	-Inf	10.57	3	Vertical	157	1.93
PK	5.7456G	66.40	68.20	-1.80	10.66	3	Vertical	157	1.93

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5580MHz_TX

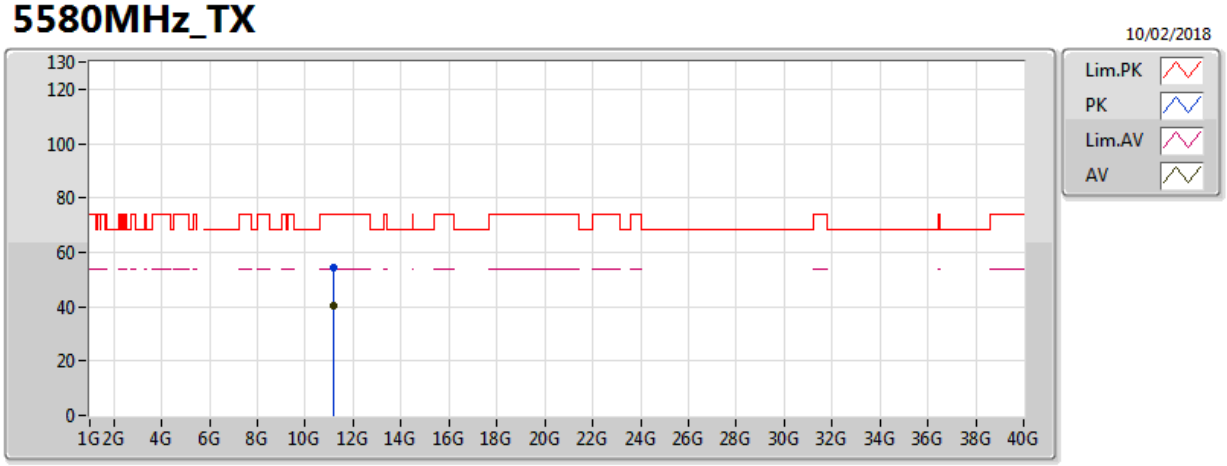


20180209
EUT Y_4TX
Setting 72
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.4228G	51.15	54.00	-2.85	11.19	3	Horizontal	199	2.24
AV	5.5836G	104.82	Inf	-Inf	10.58	3	Horizontal	199	2.24
PK	5.3448G	62.11	68.20	-6.09	10.92	3	Horizontal	199	2.24
PK	5.4276G	63.41	74.00	-10.59	11.18	3	Horizontal	199	2.24
PK	5.460005G	60.14	68.20	-8.06	11.08	3	Horizontal	199	2.24
PK	5.5764G	115.07	Inf	-Inf	10.61	3	Horizontal	199	2.24
PK	5.7372G	62.62	68.20	-5.58	10.65	3	Horizontal	199	2.24

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5580MHz_TX

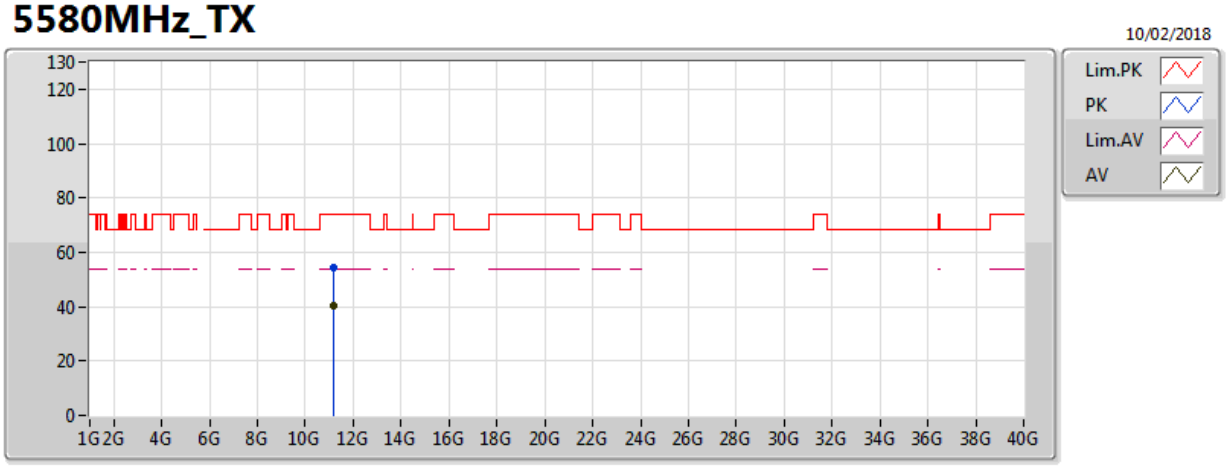


20180209
EUT Y_4TX
Setting 72
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.15898G	40.25	54.00	-13.75	14.99	3	Vertical	75	2.13
PK	11.14944G	54.15	74.00	-19.85	14.97	3	Vertical	75	2.13

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5580MHz_TX

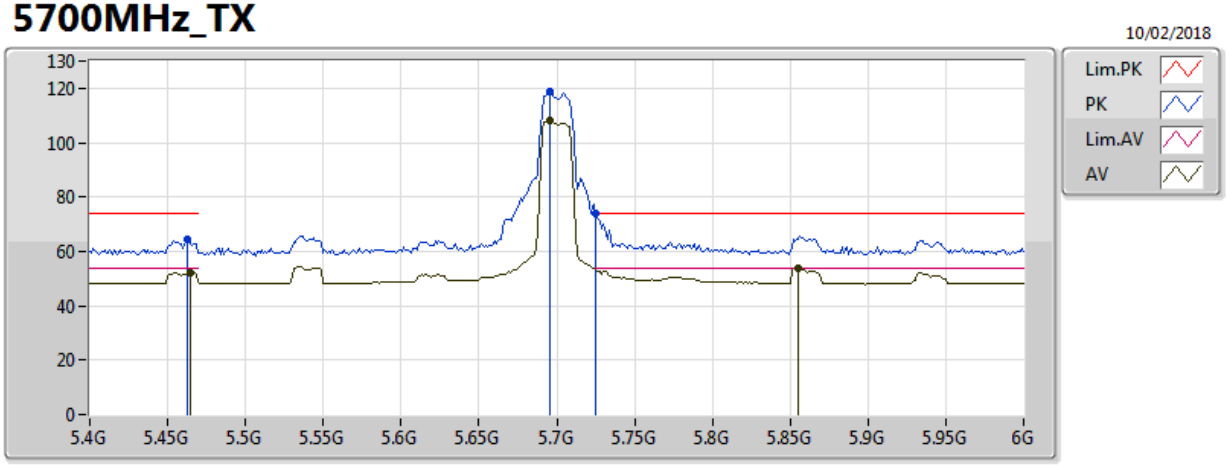


20180209
EUT Y_4TX
Setting 72
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.1582G	40.25	54.00	-13.75	14.99	3	Horizontal	121	1.92
PK	11.15688G	54.23	74.00	-19.77	14.98	3	Horizontal	121	1.92

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5700MHz_TX

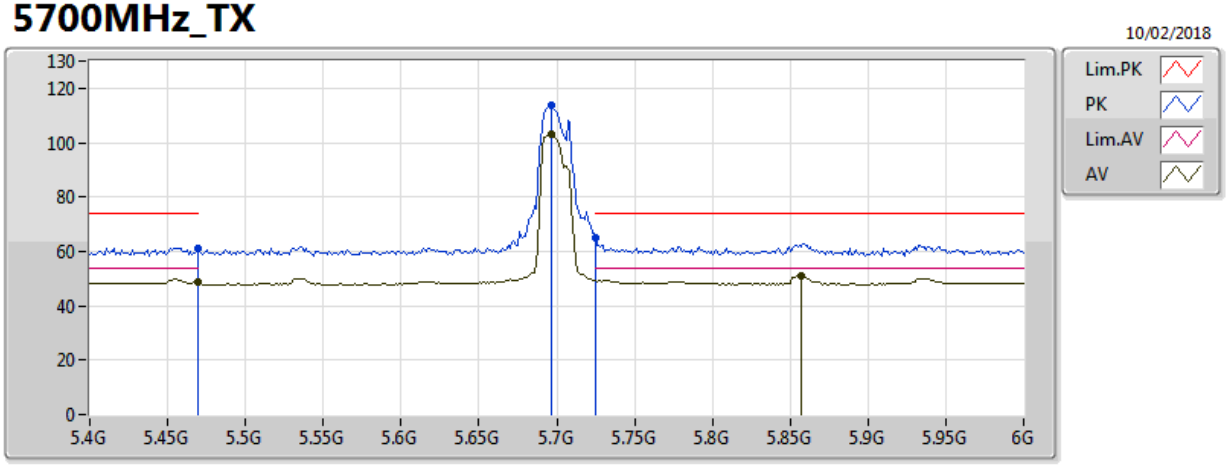


20180209
EUT Y_4TX
Setting 63
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.4648G	52.05	54.00	-1.95	11.07	3	Vertical	168	2.32
AV	5.6952G	108.07	Inf	-Inf	10.60	3	Vertical	168	2.32
AV	5.8548G	53.89	54.00	-0.11	10.89	3	Vertical	168	2.32
PK	5.4624G	64.65	74.00	-9.35	11.07	3	Vertical	168	2.32
PK	5.6952G	119.07	Inf	-Inf	10.60	3	Vertical	168	2.32
PK	5.7252G	73.69	74.00	-0.31	10.64	3	Vertical	168	2.32

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5700MHz_TX

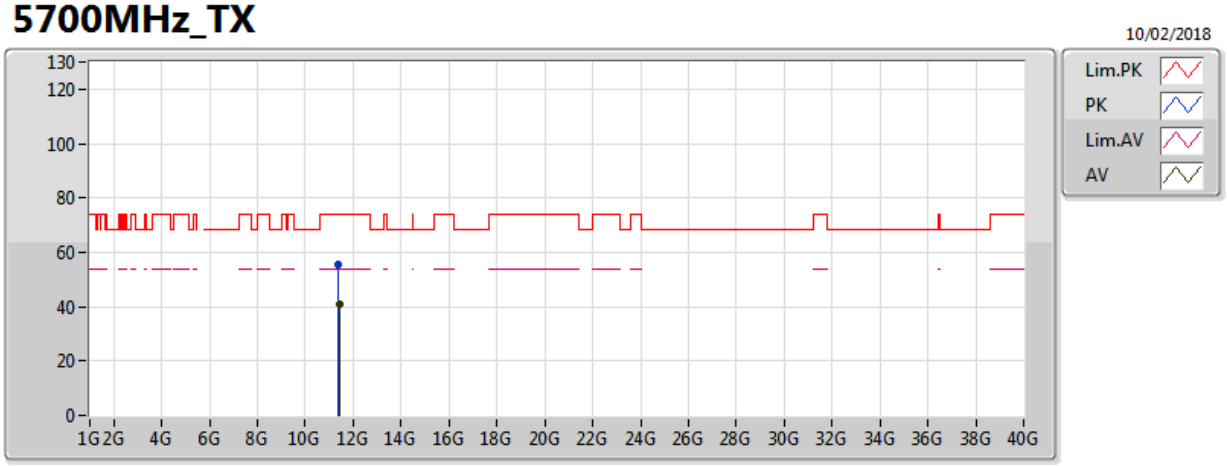


20180209
EUT Y_4TX
Setting 63
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.4696G	48.79	54.00	-5.21	11.05	3	Horizontal	200	2.15
AV	5.6964G	103.03	Inf	-Inf	10.60	3	Horizontal	200	2.15
AV	5.8572G	50.96	54.00	-3.04	10.89	3	Horizontal	200	2.15
PK	5.4696G	61.12	74.00	-12.88	11.05	3	Horizontal	200	2.15
PK	5.6964G	113.77	Inf	-Inf	10.60	3	Horizontal	200	2.15
PK	5.7252G	64.94	74.00	-9.06	10.64	3	Horizontal	200	2.15

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5700MHz_TX

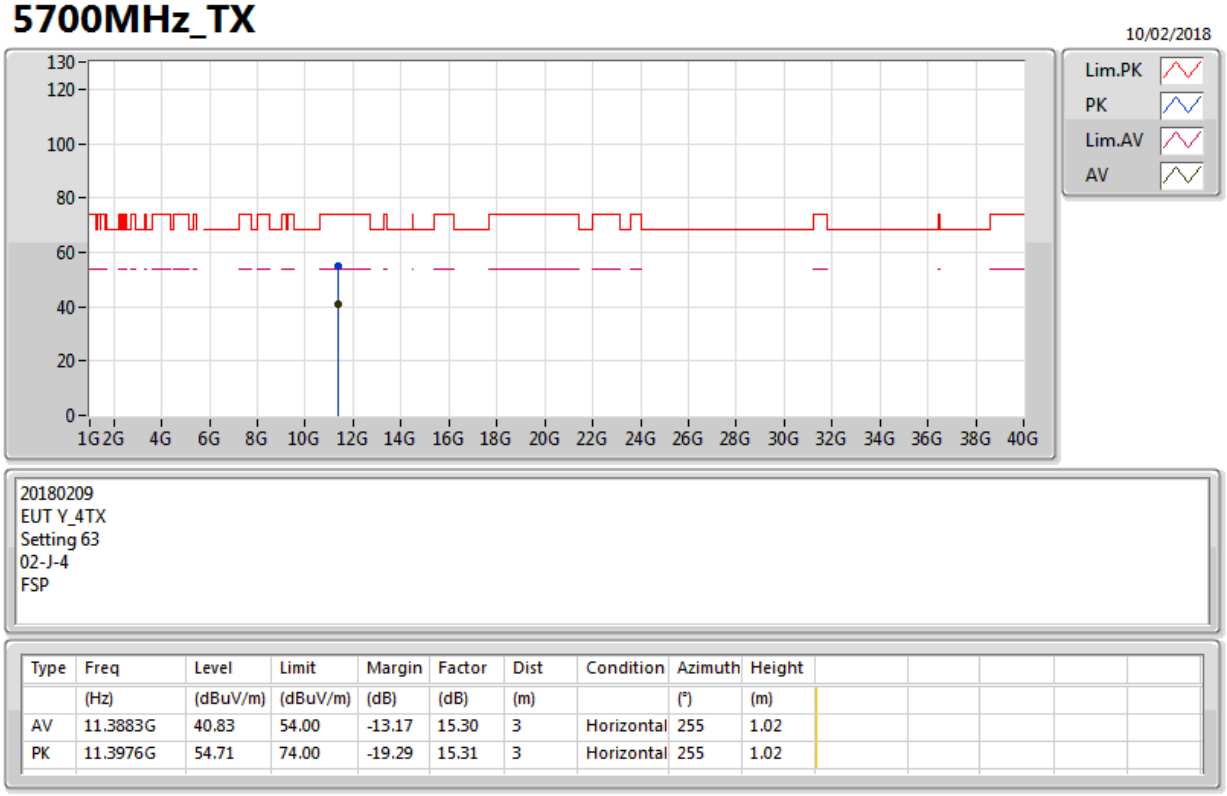


20180209
EUT Y_4TX
Setting 63
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.40888G	40.85	54.00	-13.15	15.33	3	Vertical	186	1.62
PK	11.39436G	55.39	74.00	-18.61	15.31	3	Vertical	186	1.62

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5700MHz_TX

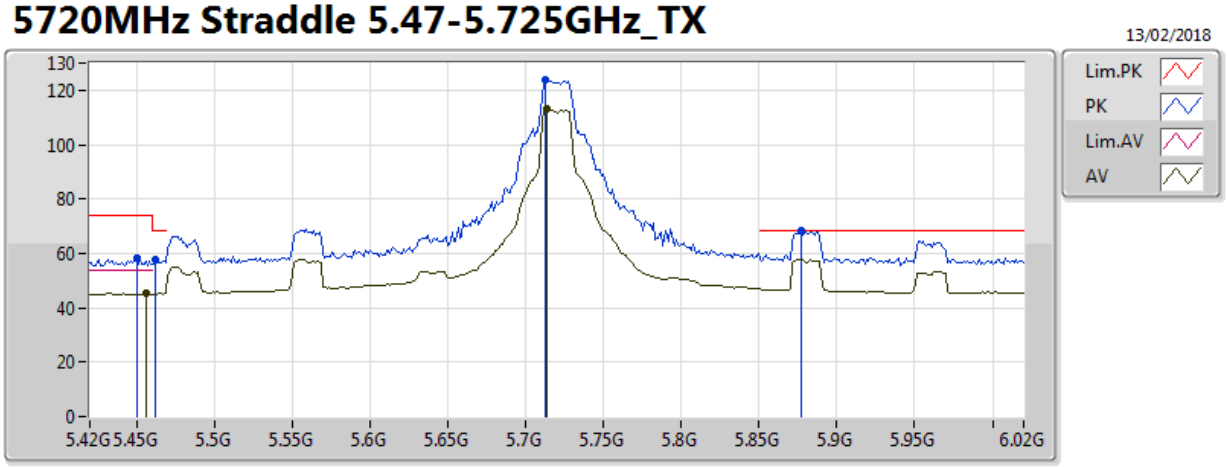


20180209
EUT Y_4TX
Setting 63
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.3883G	40.83	54.00	-13.17	15.30	3	Horizontal	255	1.02
PK	11.3976G	54.71	74.00	-19.29	15.31	3	Horizontal	255	1.02

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz_TX

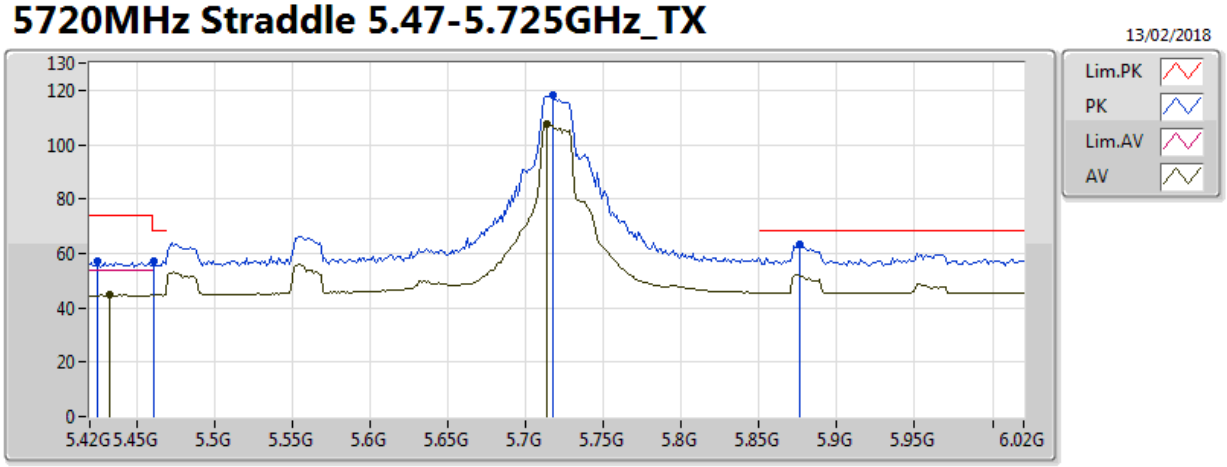


20170213
EUT Y_4TX
Setting 95
01-J-6-10
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.456G	45.18	54.00	-8.82	5.91	3	Vertical	174	1.81	-
AV	5.714G	112.96	Inf	-Inf	6.74	3	Vertical	174	1.81	-
PK	5.45G	58.08	74.00	-15.92	5.90	3	Vertical	174	1.81	-
PK	5.462G	57.46	68.20	-10.74	5.92	3	Vertical	174	1.81	-
PK	5.7128G	123.75	Inf	-Inf	6.73	3	Vertical	174	1.81	-
PK	5.8772G	68.15	68.20	-0.05	7.25	3	Vertical	174	1.81	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz_TX

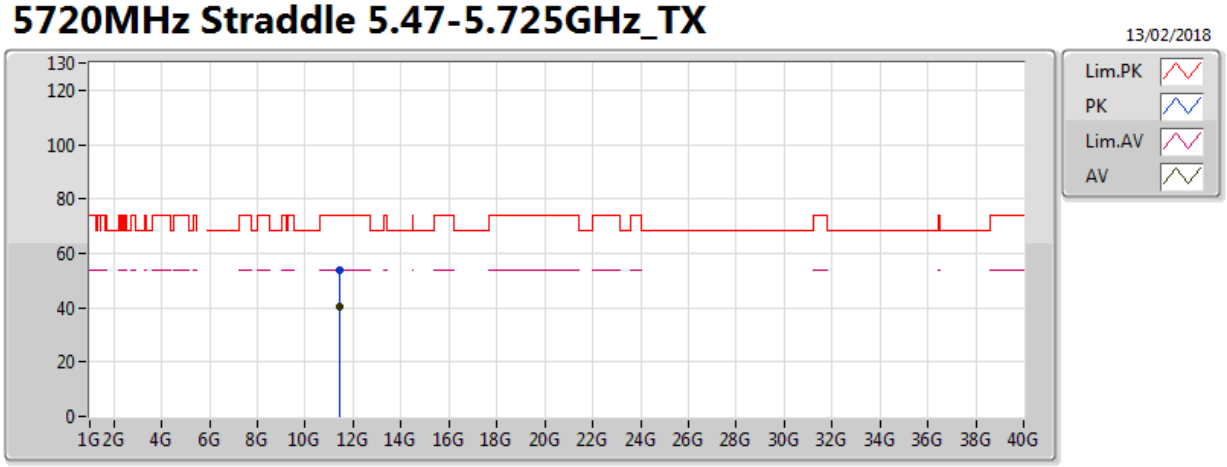


20170213
EUT Y_4TX
Setting 95
01-J-6-10
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.4332G	44.65	54.00	-9.35	5.86	3	Horizontal	288	2.96	-
AV	5.714G	107.76	Inf	-Inf	6.74	3	Horizontal	288	2.96	-
PK	5.4248G	57.38	74.00	-16.62	5.84	3	Horizontal	288	2.96	-
PK	5.4608G	57.43	68.20	-10.77	5.92	3	Horizontal	288	2.96	-
PK	5.7176G	118.01	Inf	-Inf	6.75	3	Horizontal	288	2.96	-
PK	5.876G	63.30	68.20	-4.90	7.24	3	Horizontal	288	2.96	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz_TX

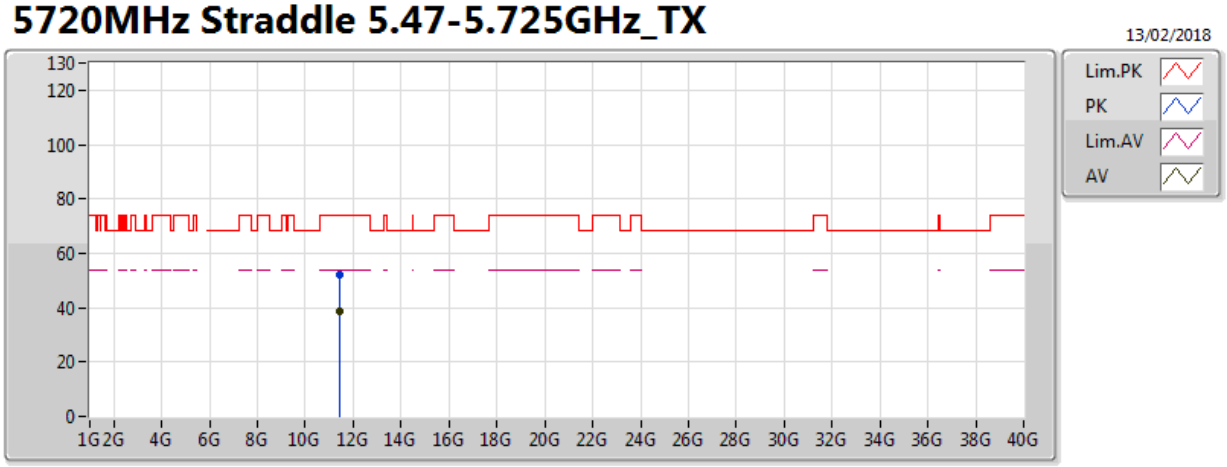


20170213
EUT Y_4TX
Setting 95
01-J-6
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.43888G	40.22	54.00	-13.78	13.32	3	Vertical	347	1.49	-
PK	11.43584G	53.81	74.00	-20.19	13.32	3	Vertical	347	1.49	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz_TX

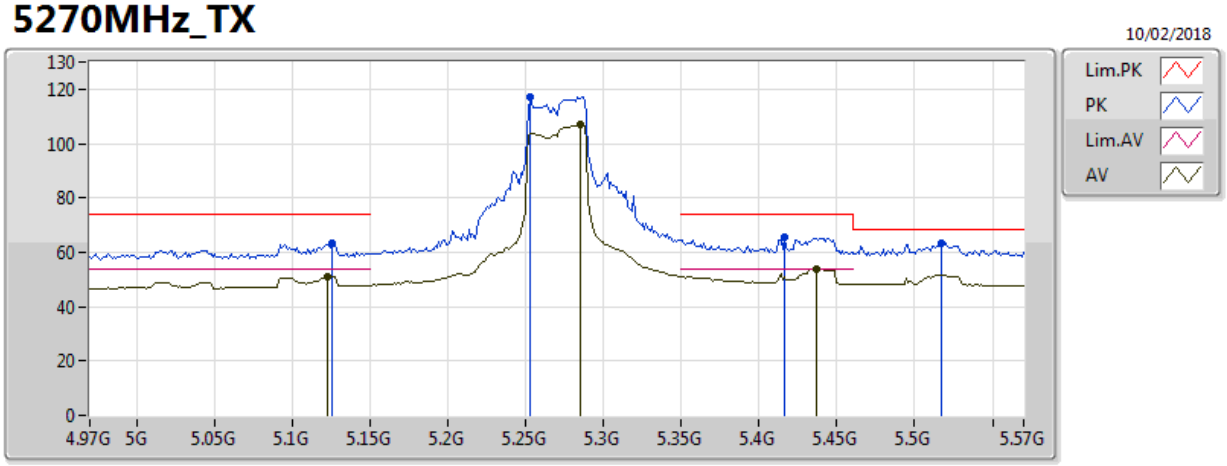


20170213
EUT Y_4TX
Setting 95
01-J-6
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.43048G	38.69	54.00	-15.31	13.32	3	Horizontal	268	2.48	-
PK	11.42712G	52.31	74.00	-21.69	13.32	3	Horizontal	268	2.48	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5270MHz_TX

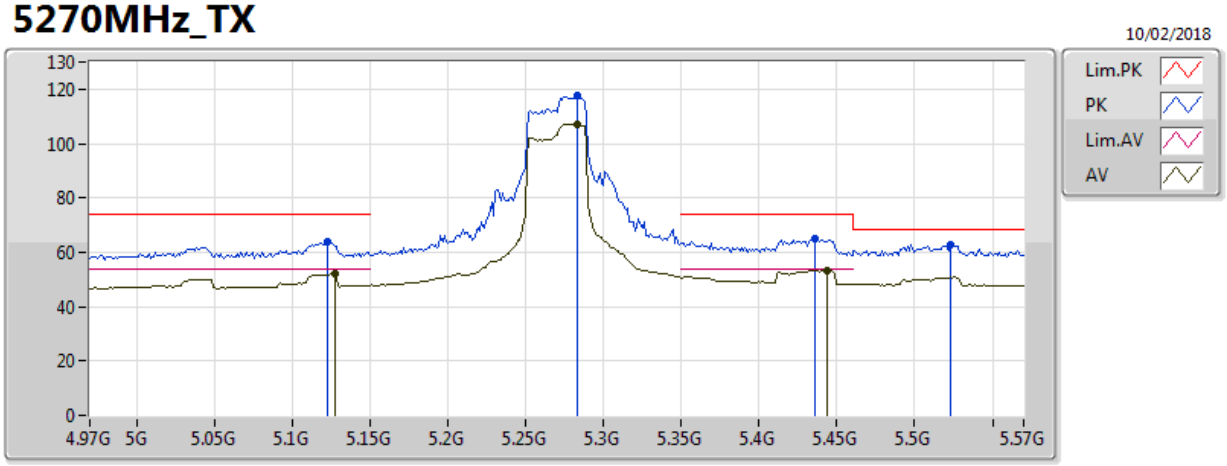


20180209
EUT Y_4TX
Setting 87
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1224G	51.14	54.00	-2.86	9.83	3	Vertical	163	1.10
AV	5.2856G	106.78	Inf	-Inf	10.55	3	Vertical	163	1.10
AV	5.4368G	53.93	54.00	-0.07	11.15	3	Vertical	163	1.10
PK	5.126G	63.14	74.00	-10.86	9.84	3	Vertical	163	1.10
PK	5.2532G	117.09	Inf	-Inf	10.35	3	Vertical	163	1.10
PK	5.4164G	65.39	74.00	-8.61	11.21	3	Vertical	163	1.10
PK	5.5172G	63.51	68.20	-4.69	10.88	3	Vertical	163	1.10

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5270MHz_TX

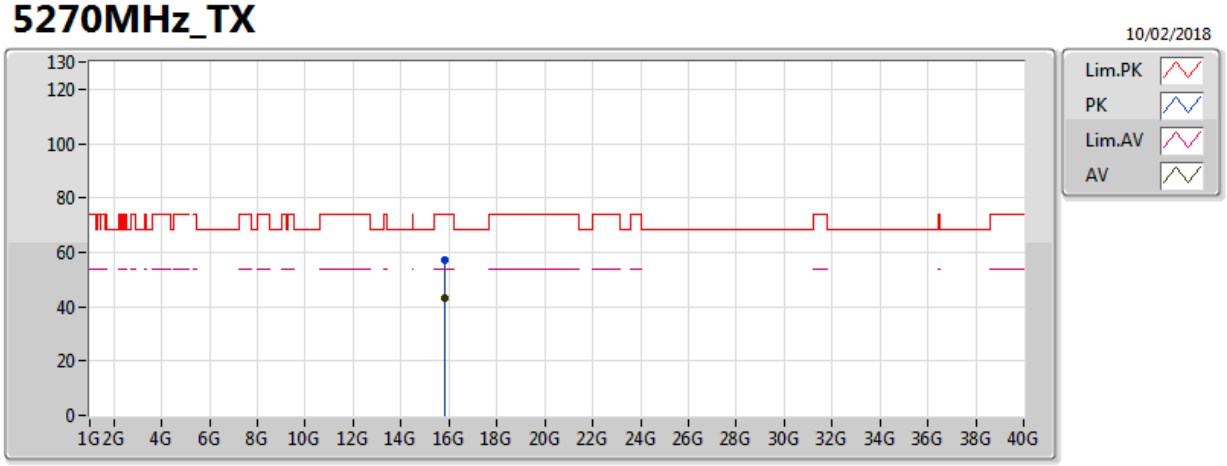


20180209
EUT Y_4TX
Setting 87
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1272G	51.98	54.00	-2.02	9.85	3	Horizontal	312	2.18
AV	5.2832G	107.11	Inf	-Inf	10.54	3	Horizontal	312	2.18
AV	5.444G	53.25	54.00	-0.75	11.13	3	Horizontal	312	2.18
PK	5.1224G	63.95	74.00	-10.05	9.83	3	Horizontal	312	2.18
PK	5.2832G	117.45	Inf	-Inf	10.54	3	Horizontal	312	2.18
PK	5.4356G	64.85	74.00	-9.15	11.15	3	Horizontal	312	2.18
PK	5.5232G	62.72	68.20	-5.48	10.85	3	Horizontal	312	2.18

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5270MHz_TX

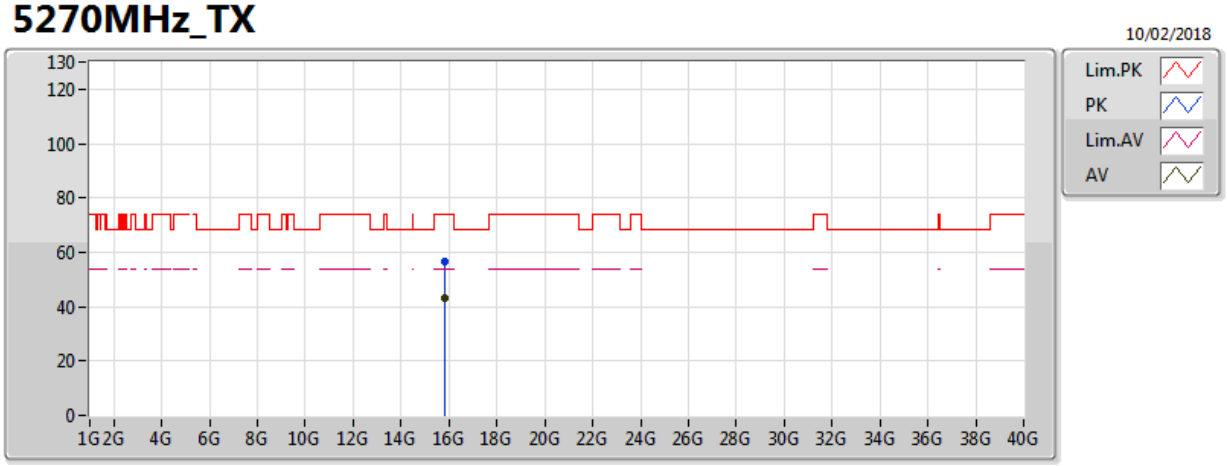


20180209
EUT Y_4TX
Setting 87
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.79632G	43.37	54.00	-10.63	18.25	3	Vertical	68	2.04
PK	15.80964G	57.13	74.00	-16.87	18.23	3	Vertical	68	2.04

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5270MHz_TX

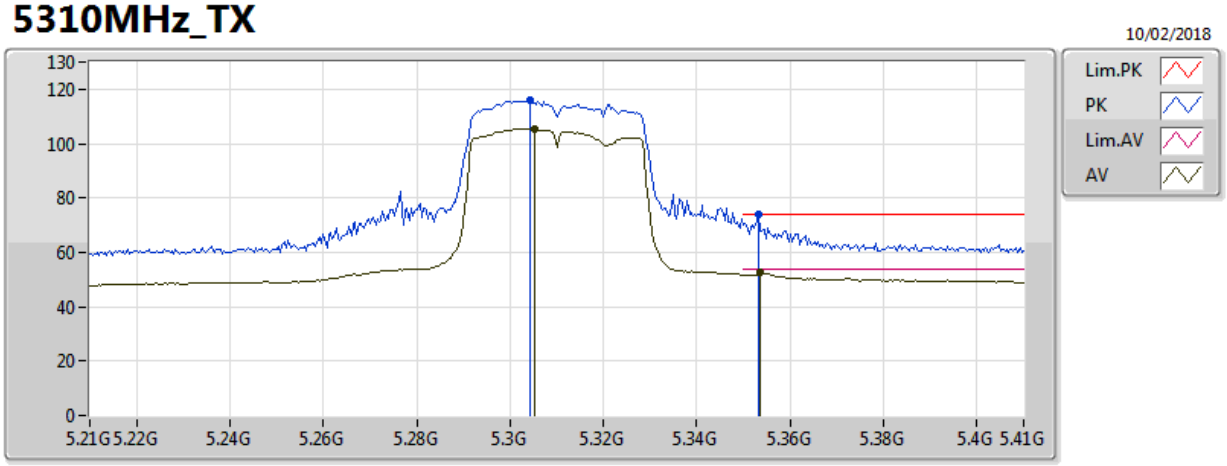


20180209
EUT Y_4TX
Setting 87
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.79986G	43.15	54.00	-10.85	18.24	3	Horizontal	34	1.57
PK	15.80748G	56.74	74.00	-17.26	18.23	3	Horizontal	34	1.57

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5310MHz_TX

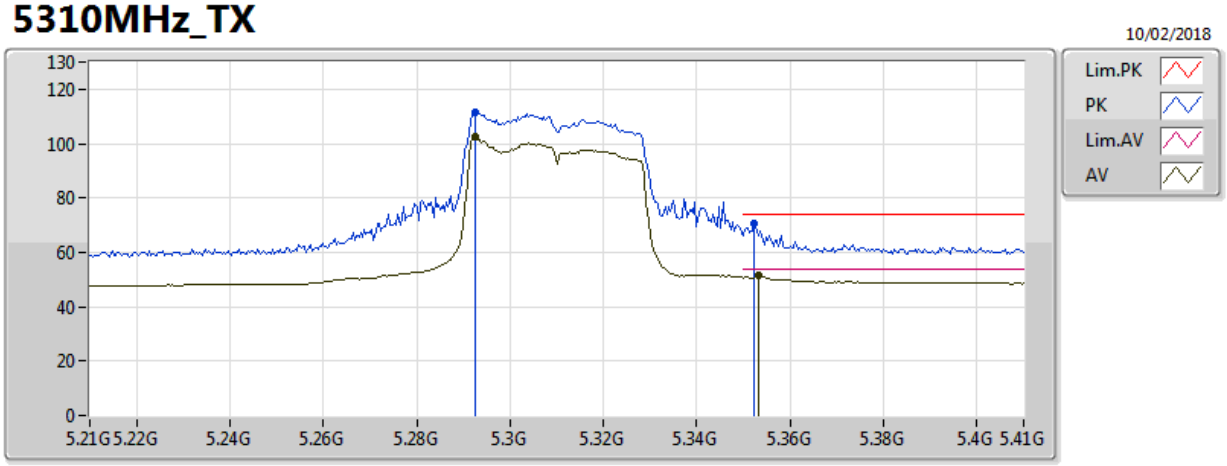


20180209
EUT Y_4TX
Setting 72
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.3052G	105.33	Inf	-Inf	10.67	3	Vertical	169	2.41
AV	5.3536G	52.58	54.00	-1.42	10.97	3	Vertical	169	2.41
PK	5.3044G	115.84	Inf	-Inf	10.67	3	Vertical	169	2.41
PK	5.3532G	73.83	74.00	-0.17	10.97	3	Vertical	169	2.41

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5310MHz_TX

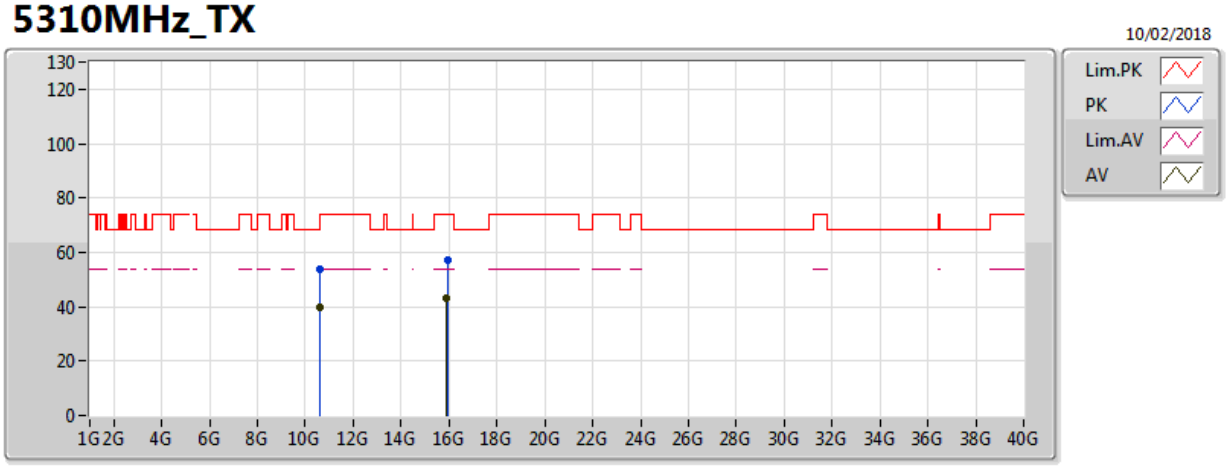


20180209
EUT Y_4TX
Setting 72
02-J-4-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.2924G	102.30	Inf	-Inf	10.59	3	Horizontal	82	2.22
AV	5.3532G	51.31	54.00	-2.69	10.97	3	Horizontal	82	2.22
PK	5.2924G	111.64	Inf	-Inf	10.59	3	Horizontal	82	2.22
PK	5.3524G	70.64	74.00	-3.36	10.96	3	Horizontal	82	2.22

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5310MHz_TX

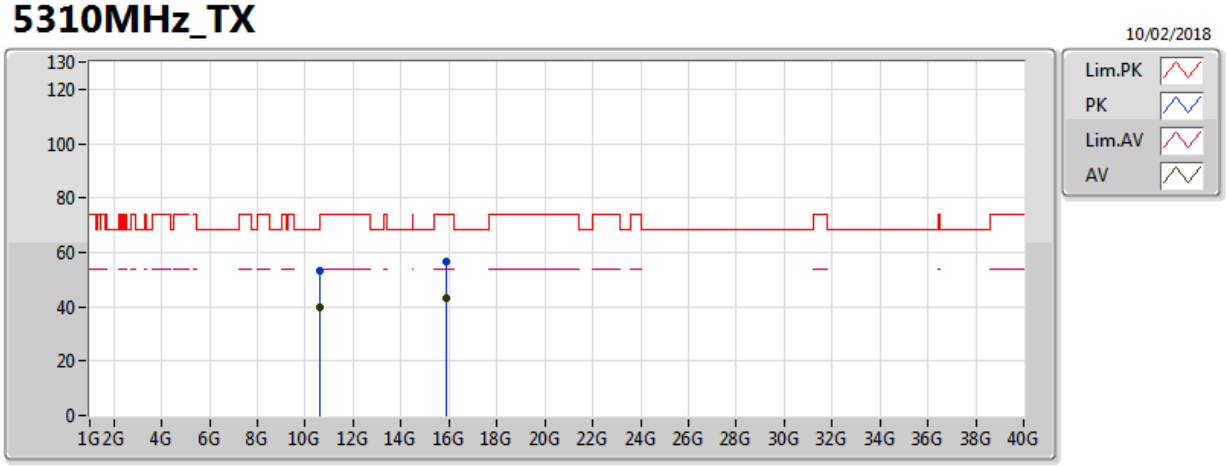


20180209
EUT Y_4TX
Setting 72
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	10.62282G	39.93	54.00	-14.07	14.74	3	Vertical	142	1.70
AV	15.91524G	43.09	54.00	-10.91	18.05	3	Vertical	40	1.95
PK	10.63002G	53.60	74.00	-20.40	14.74	3	Vertical	142	1.70
PK	15.93702G	57.29	74.00	-16.71	18.02	3	Vertical	40	1.95

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5310MHz_TX

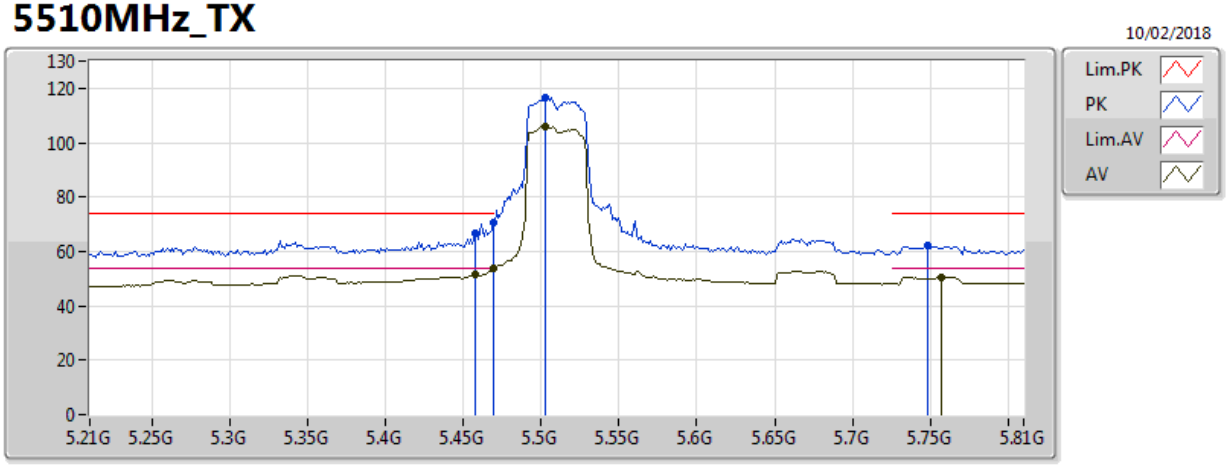


20180209
EUT Y_4TX
Setting 72
02-J-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	10.62696G	39.80	54.00	-14.20	14.74	3	Horizontal	219	1.66
AV	15.918G	43.08	54.00	-10.92	18.05	3	Horizontal	255	1.87
PK	10.61358G	53.48	74.00	-20.52	14.74	3	Horizontal	219	1.66
PK	15.9192G	56.45	74.00	-17.55	18.04	3	Horizontal	255	1.87

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5510MHz_TX

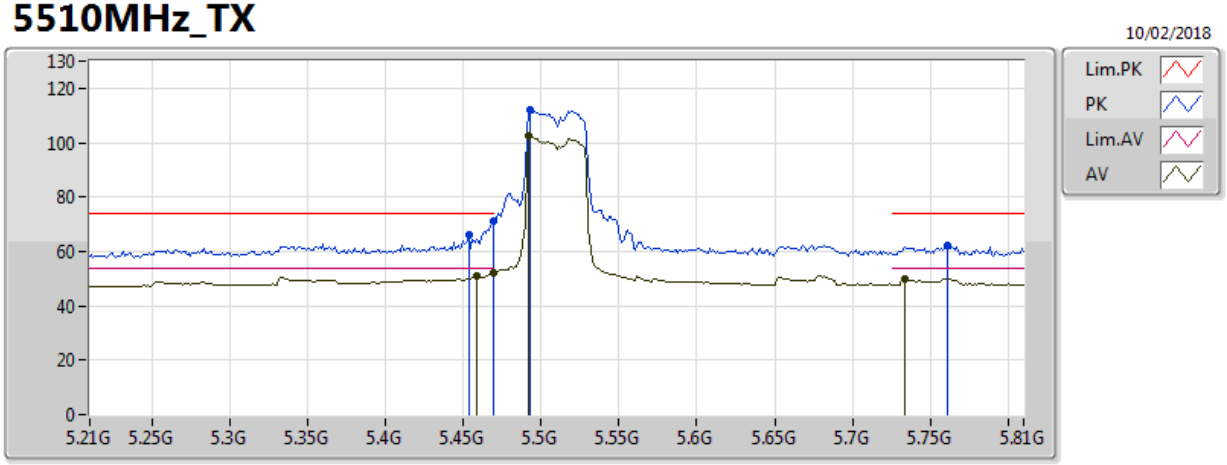


20180210
EUT Y_4TX
Setting 70
02-J-5-10
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.4572G	51.64	54.00	-2.36	11.09	3	Vertical	165	2.12
AV	5.4692G	53.83	54.00	-0.17	11.05	3	Vertical	165	2.12
AV	5.5028G	106.09	Inf	-Inf	10.95	3	Vertical	165	2.12
AV	5.7572G	50.42	54.00	-3.58	10.68	3	Vertical	165	2.12
PK	5.4572G	66.77	74.00	-7.23	11.09	3	Vertical	165	2.12
PK	5.4692G	70.82	74.00	-3.18	11.05	3	Vertical	165	2.12
PK	5.5028G	116.67	Inf	-Inf	10.95	3	Vertical	165	2.12
PK	5.7488G	62.11	74.00	-11.89	10.67	3	Vertical	165	2.12

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5510MHz_TX

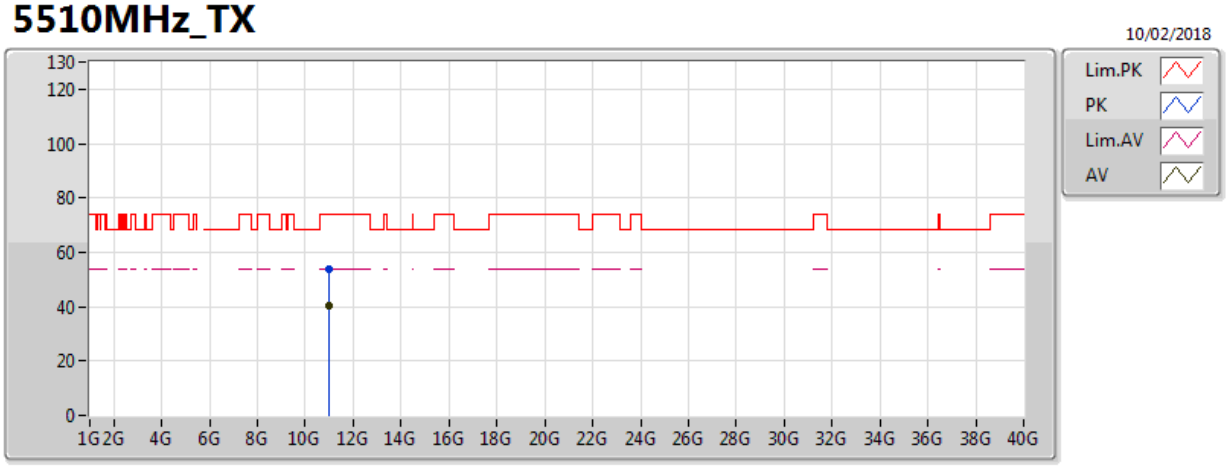


20180210
EUT Y_4TX
Setting 70
02-J-5-10
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.4584G	51.04	54.00	-2.96	11.08	3	Horizontal	317	2.10
AV	5.4692G	51.97	54.00	-2.03	11.05	3	Horizontal	317	2.10
AV	5.492G	102.52	Inf	-Inf	10.98	3	Horizontal	317	2.10
AV	5.7332G	50.05	54.00	-3.95	10.65	3	Horizontal	317	2.10
PK	5.4536G	65.89	74.00	-8.11	11.10	3	Horizontal	317	2.10
PK	5.4692G	71.02	74.00	-2.98	11.05	3	Horizontal	317	2.10
PK	5.4932G	112.14	Inf	-Inf	10.98	3	Horizontal	317	2.10
PK	5.7608G	62.39	74.00	-11.61	10.69	3	Horizontal	317	2.10

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5510MHz_TX

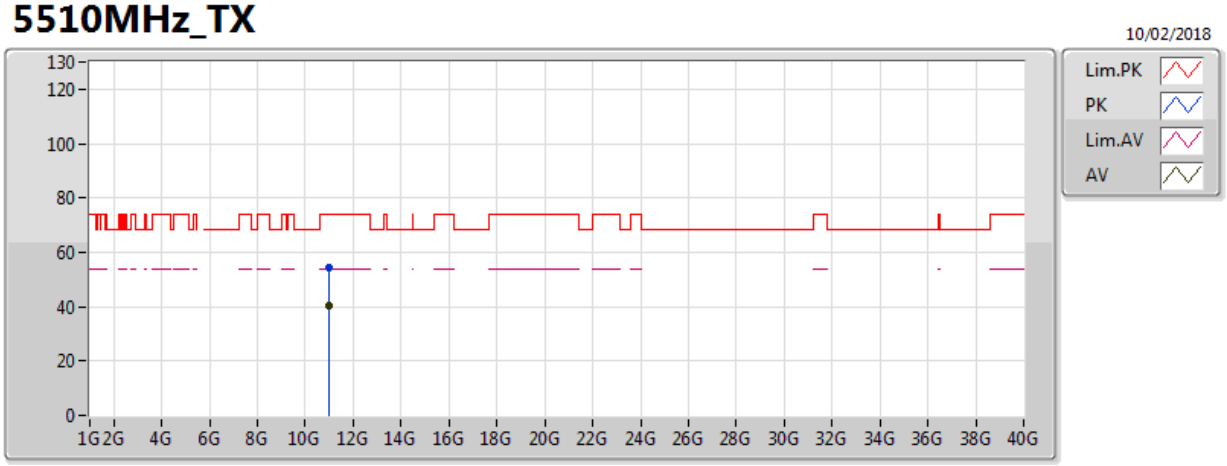


20180210
EUT Y_4TX
Setting 70
02-J-5
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.00746G	40.22	54.00	-13.78	14.78	3	Vertical	229	1.69
PK	11.00608G	53.99	74.00	-20.01	14.78	3	Vertical	229	1.69

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5510MHz_TX

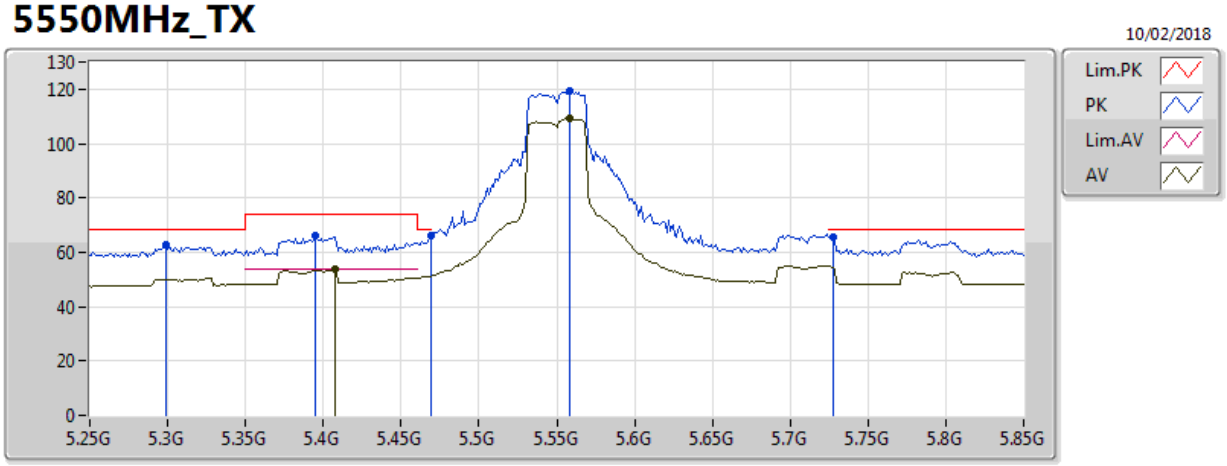


20180210
EUT Y_4TX
Setting 70
02-J-5
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.00512G	40.26	54.00	-13.74	14.78	3	Horizontal	336	1.28
PK	11.0071G	54.28	74.00	-19.72	14.78	3	Horizontal	336	1.28

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5550MHz_TX

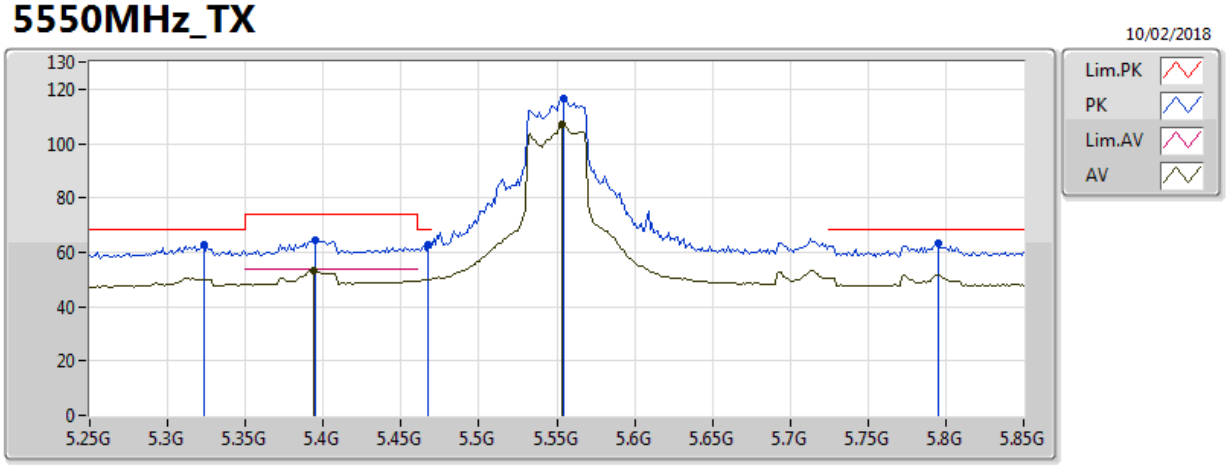


20180210
EUT Y_4TX
Setting 86
02-J-5-10
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.4072G	53.84	54.00	-0.16	11.24	3	Vertical	179	2.16
AV	5.5584G	109.15	Inf	-Inf	10.69	3	Vertical	179	2.16
PK	5.2992G	62.57	68.20	-5.63	10.64	3	Vertical	179	2.16
PK	5.3952G	65.89	74.00	-8.11	11.23	3	Vertical	179	2.16
PK	5.4696G	65.98	68.20	-2.22	11.05	3	Vertical	179	2.16
PK	5.5584G	119.22	Inf	-Inf	10.69	3	Vertical	179	2.16
PK	5.7276G	65.58	68.20	-2.62	10.64	3	Vertical	179	2.16

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5550MHz_TX

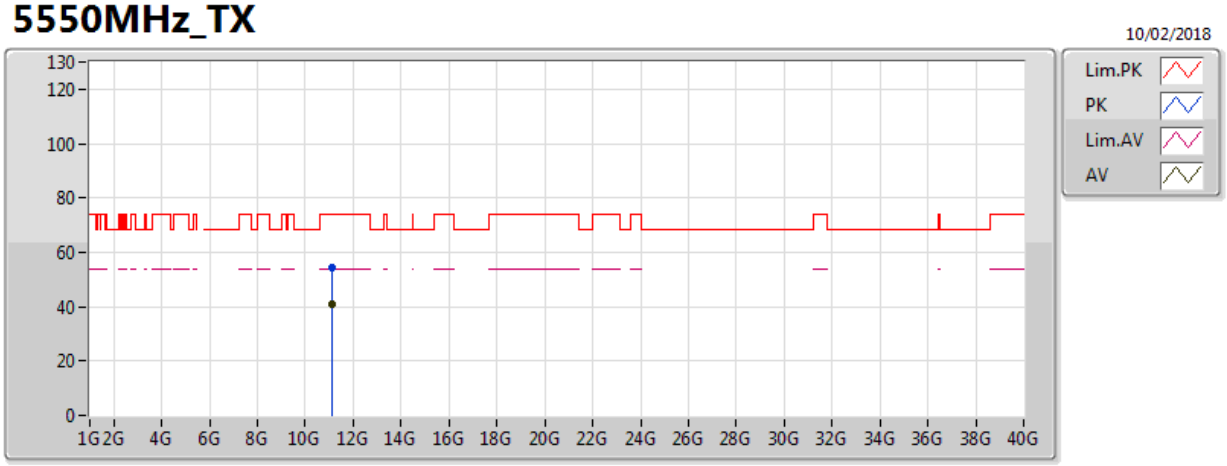


20180210
EUT Y_4TX
Setting 86
02-J-5-10
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.394G	53.12	54.00	-0.88	11.22	3	Horizontal	72	2.09
AV	5.5536G	106.82	Inf	-Inf	10.71	3	Horizontal	72	2.09
PK	5.3232G	62.83	68.20	-5.37	10.78	3	Horizontal	72	2.09
PK	5.3952G	64.19	74.00	-9.81	11.23	3	Horizontal	72	2.09
PK	5.4672G	62.52	68.20	-5.68	11.06	3	Horizontal	72	2.09
PK	5.5548G	116.51	Inf	-Inf	10.71	3	Horizontal	72	2.09
PK	5.7948G	63.07	68.20	-5.13	10.73	3	Horizontal	72	2.09

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5550MHz_TX

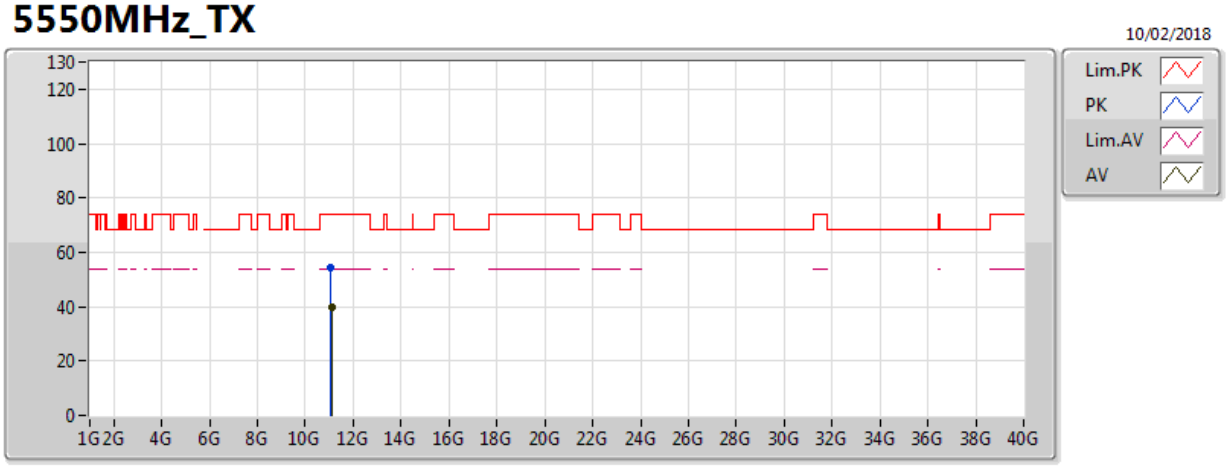


20180210
EUT Y_4TX
Setting 86
02-J-5
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.1022G	41.04	54.00	-12.96	14.91	3	Vertical	251	1.50
PK	11.1004G	54.24	74.00	-19.76	14.91	3	Vertical	251	1.50

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5550MHz_TX

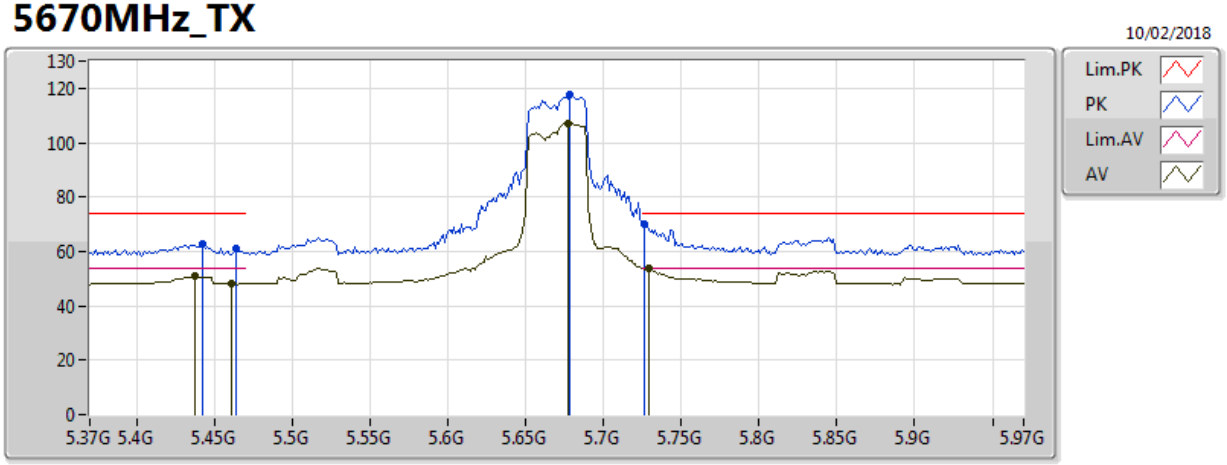


20180210
EUT Y_4TX
Setting 86
02-J-5
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.095G	40.06	54.00	-13.94	14.90	3	Horizontal	184	2.06
PK	11.079G	54.22	74.00	-19.78	14.88	3	Horizontal	184	2.06

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5670MHz_TX

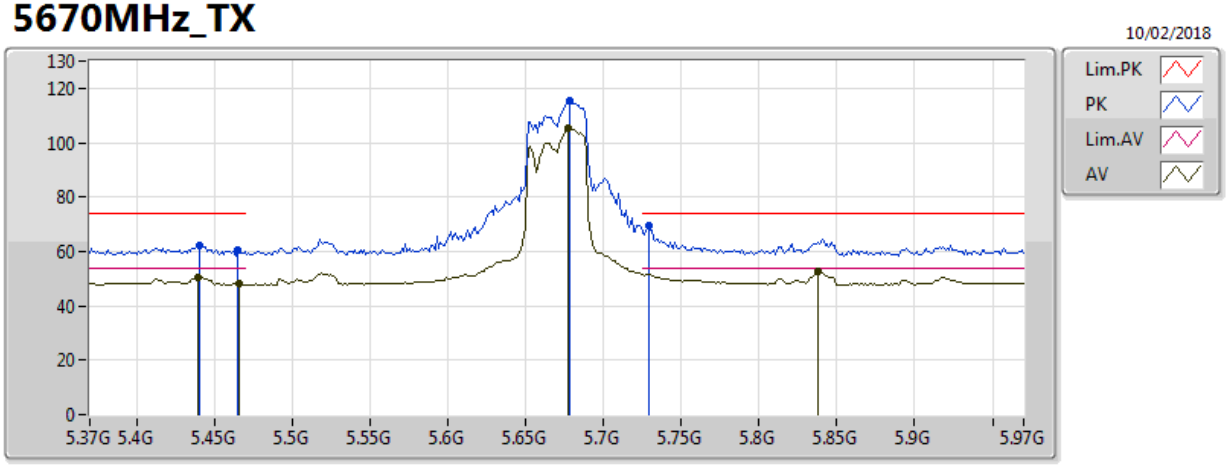


20180210
EUT Y_4TX
Setting 73
02-J-5-10
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.4372G	50.87	54.00	-3.13	11.15	3	Vertical	164	2.10
AV	5.4612G	48.10	54.00	-5.90	11.08	3	Vertical	164	2.10
AV	5.6772G	106.84	Inf	-Inf	10.58	3	Vertical	164	2.10
AV	5.7288G	53.85	54.00	-0.15	10.64	3	Vertical	164	2.10
PK	5.442G	62.57	74.00	-11.43	11.13	3	Vertical	164	2.10
PK	5.4636G	60.82	74.00	-13.18	11.07	3	Vertical	164	2.10
PK	5.6784G	117.45	Inf	-Inf	10.58	3	Vertical	164	2.10
PK	5.7264G	69.83	74.00	-4.17	10.64	3	Vertical	164	2.10

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5670MHz_TX

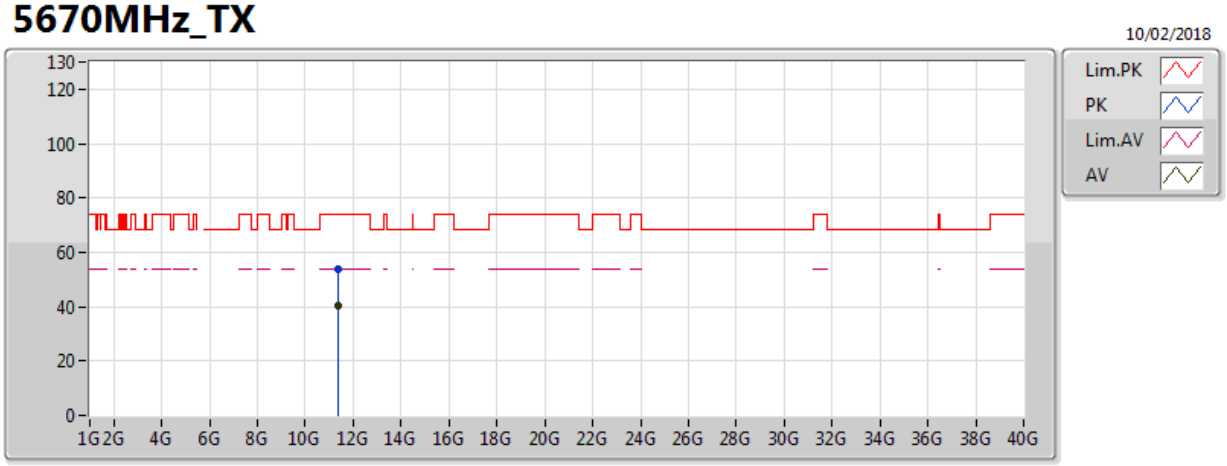


20180210
EUT Y_4TX
Setting 73
02-J-5-10
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.4396G	50.40	54.00	-3.60	11.14	3	Horizontal	326	2.22
AV	5.466G	48.01	54.00	-5.99	11.06	3	Horizontal	326	2.22
AV	5.6772G	105.10	Inf	-Inf	10.58	3	Horizontal	326	2.22
AV	5.838G	52.54	54.00	-1.46	10.84	3	Horizontal	326	2.22
PK	5.4408G	62.26	74.00	-11.74	11.14	3	Horizontal	326	2.22
PK	5.4648G	60.73	74.00	-13.27	11.07	3	Horizontal	326	2.22
PK	5.6784G	115.50	Inf	-Inf	10.58	3	Horizontal	326	2.22
PK	5.7288G	69.51	74.00	-4.49	10.64	3	Horizontal	326	2.22

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5670MHz_TX

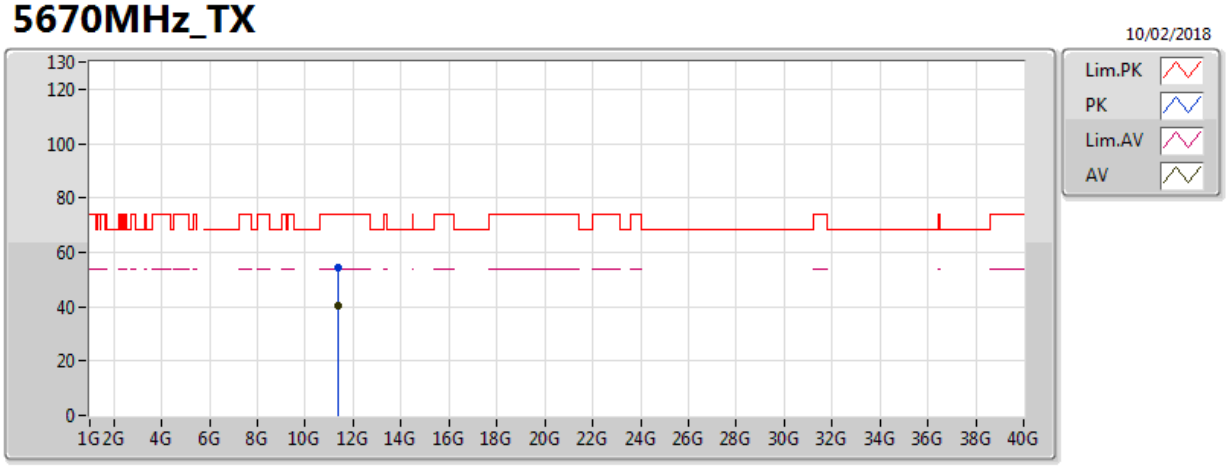


20180210
EUT Y_4TX
Setting 73
02-J-5
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.3439G	40.45	54.00	-13.55	15.24	3	Vertical	282	2.37
PK	11.3561G	53.81	74.00	-20.19	15.26	3	Vertical	282	2.37

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5670MHz_TX

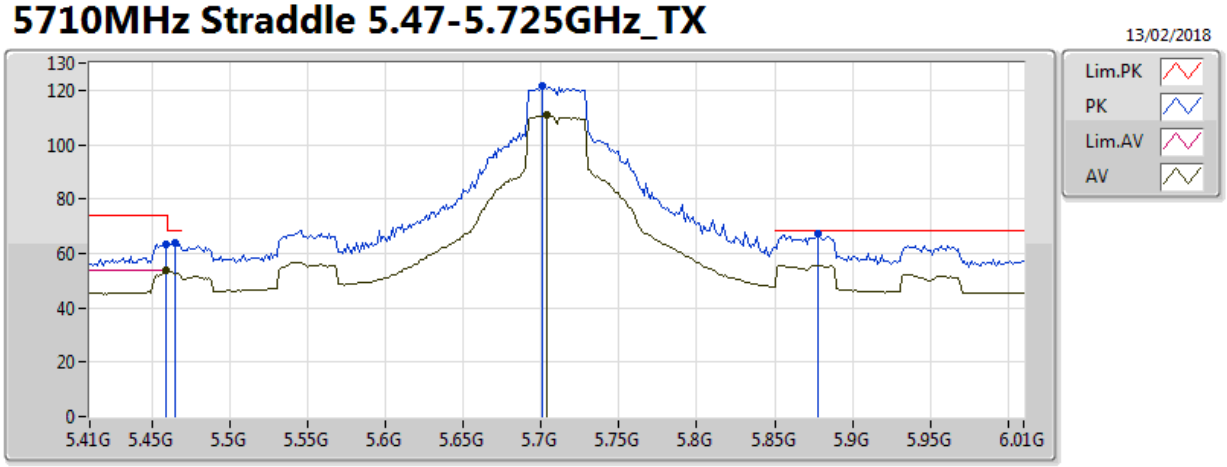


20180210
EUT Y_4TX
Setting 73
02-J-5
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.36G	40.52	54.00	-13.48	15.26	3	Horizontal	302	2.47
PK	11.358G	54.40	74.00	-19.60	15.26	3	Horizontal	302	2.47

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5710MHz Straddle 5.47-5.725GHz_TX

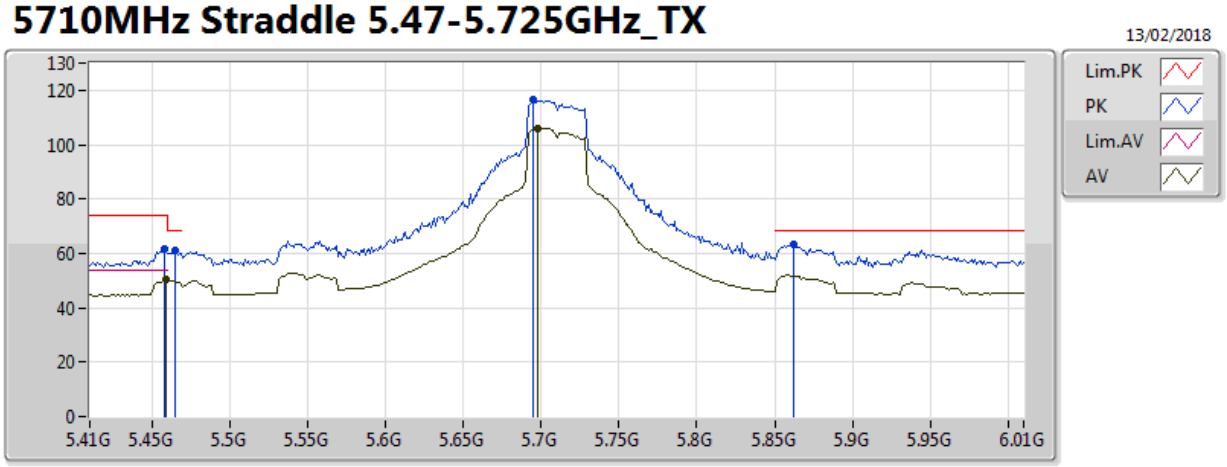


20170213
EUT Y_4TX
Setting 95
01-J-6-10
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.4592G	53.66	54.00	-0.34	5.91	3	Vertical	177	1.87	-
AV	5.704G	110.88	Inf	-Inf	6.70	3	Vertical	177	1.87	-
PK	5.4592G	63.58	74.00	-10.42	5.91	3	Vertical	177	1.87	-
PK	5.4652G	63.82	68.20	-4.38	5.93	3	Vertical	177	1.87	-
PK	5.7004G	121.34	Inf	-Inf	6.68	3	Vertical	177	1.87	-
PK	5.878G	67.16	68.20	-1.04	7.25	3	Vertical	177	1.87	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5710MHz Straddle 5.47-5.725GHz_TX

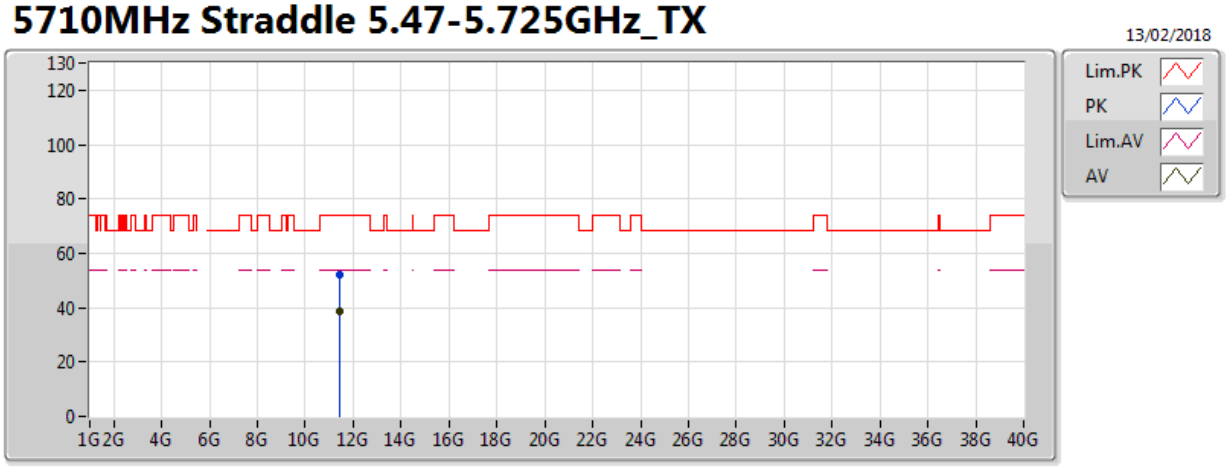


20170213
EUT Y_4TX
Setting 95
01-J-6-10
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.4592G	50.32	54.00	-3.68	5.91	3	Horizontal	338	1.96	-
AV	5.698G	106.17	Inf	-Inf	6.67	3	Horizontal	338	1.96	-
PK	5.458G	61.36	74.00	-12.64	5.91	3	Horizontal	338	1.96	-
PK	5.4652G	61.11	68.20	-7.09	5.93	3	Horizontal	338	1.96	-
PK	5.6944G	116.51	Inf	-Inf	6.66	3	Horizontal	338	1.96	-
PK	5.8624G	63.52	68.20	-4.68	7.22	3	Horizontal	338	1.96	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5710MHz Straddle 5.47-5.725GHz_TX

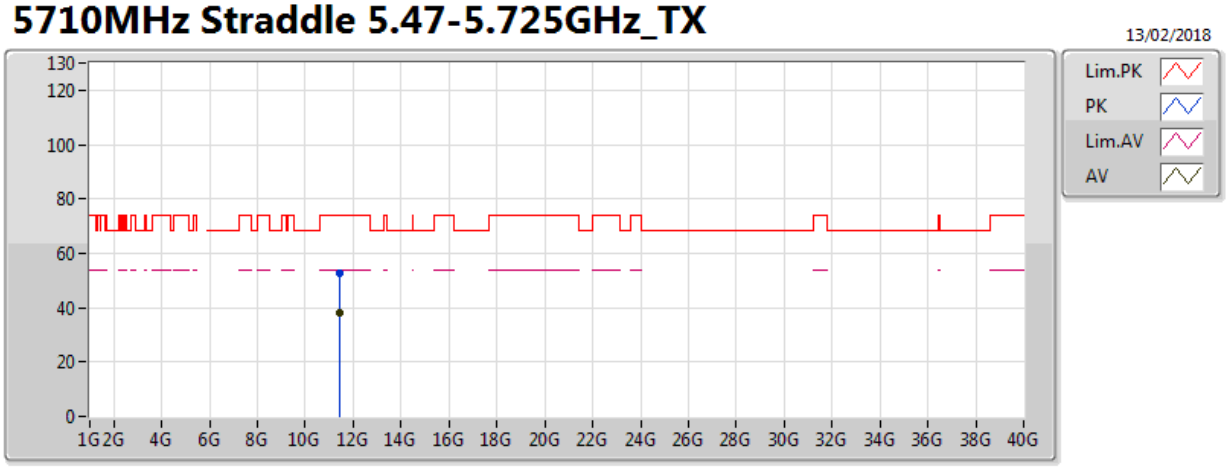


20170213
EUT Y_4TX
Setting 95
01-J-6
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.41G	38.69	54.00	-15.31	13.32	3	Vertical	360	1.68	-
PK	11.42736G	51.96	74.00	-22.04	13.32	3	Vertical	360	1.68	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5710MHz Straddle 5.47-5.725GHz_TX

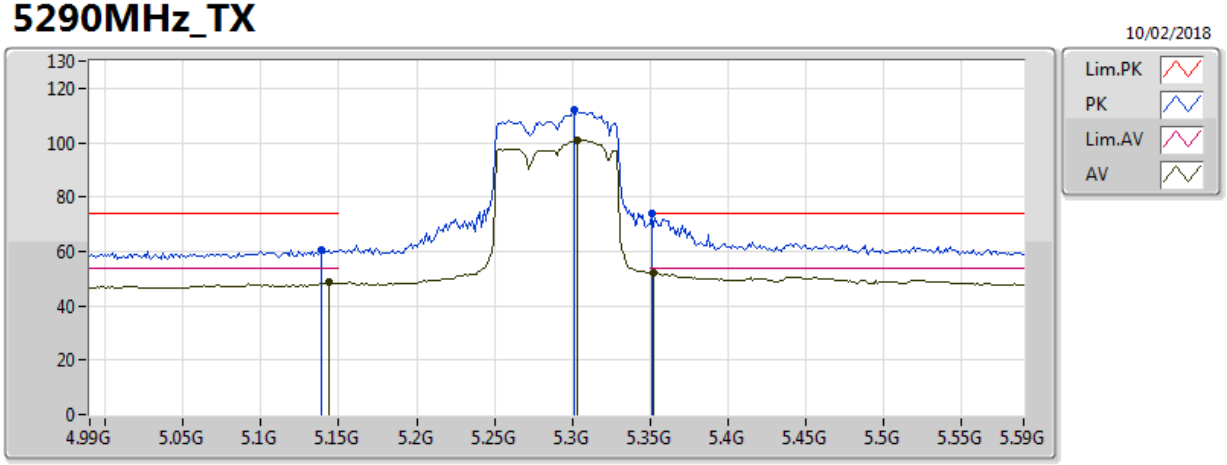


20170213
EUT Y_4TX
Setting 95
01-J-6
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.40712G	38.20	54.00	-15.80	13.32	3	Horizontal	233	2.25	-
PK	11.40768G	52.44	74.00	-21.56	13.32	3	Horizontal	233	2.25	-

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5290MHz_TX

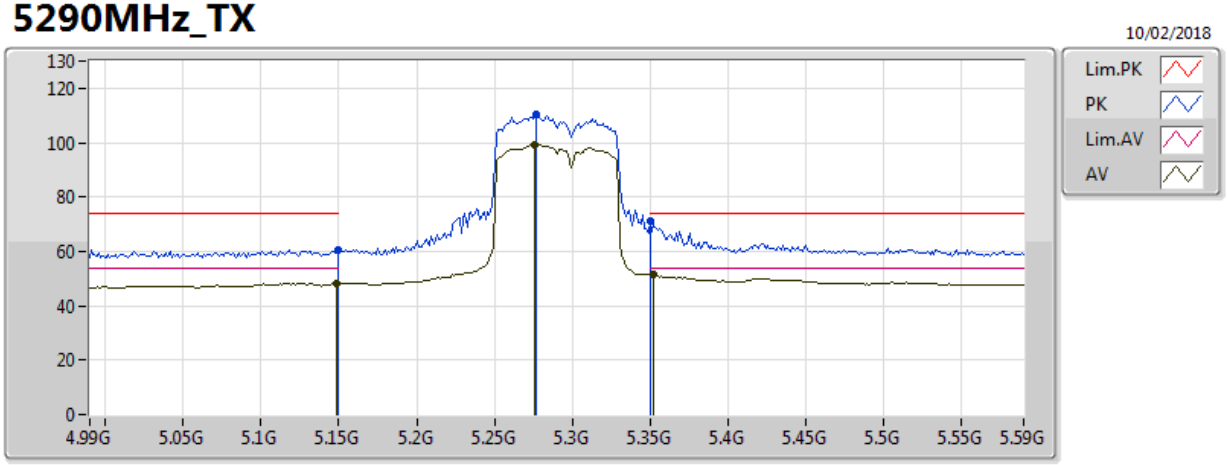


20180210
EUT Y_4TX
Setting 73
02-J-5-10
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1436G	48.48	54.00	-5.52	9.88	3	Vertical	177	2.12
AV	5.3032G	100.86	Inf	-Inf	10.66	3	Vertical	177	2.12
AV	5.3524G	52.33	54.00	-1.67	10.96	3	Vertical	177	2.12
PK	5.1388G	60.73	74.00	-13.27	9.87	3	Vertical	177	2.12
PK	5.3008G	112.31	Inf	-Inf	10.64	3	Vertical	177	2.12
PK	5.3512G	73.92	74.00	-0.08	10.96	3	Vertical	177	2.12

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5290MHz_TX

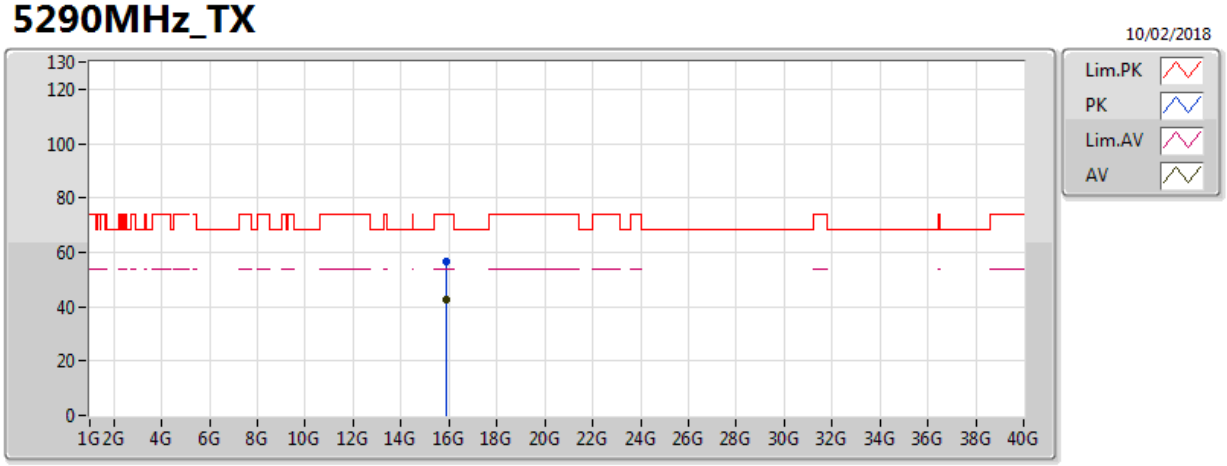


20180210
EUT Y_4TX
Setting 73
02-J-5-10
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1484G	48.41	54.00	-5.59	9.90	3	Horizontal	320	2.15
AV	5.2756G	99.32	Inf	-Inf	10.49	3	Horizontal	320	2.15
AV	5.3524G	51.29	54.00	-2.71	10.96	3	Horizontal	320	2.15
PK	5.149995G	60.65	74.00	-13.35	9.90	3	Horizontal	320	2.15
PK	5.2768G	110.19	Inf	-Inf	10.50	3	Horizontal	320	2.15
PK	5.350005G	71.06	74.00	-2.94	10.95	3	Horizontal	320	2.15

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5290MHz_TX

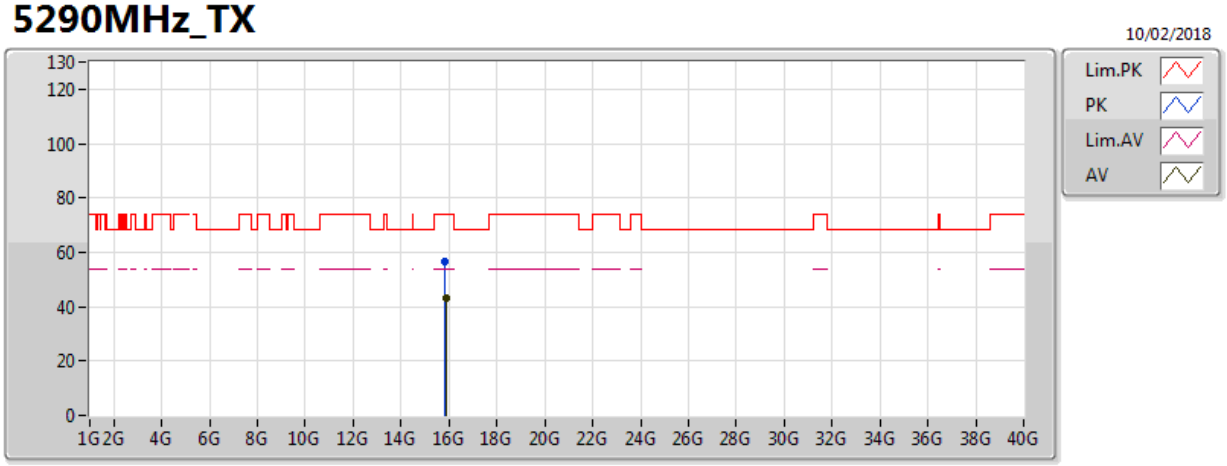


20180210
EUT Y_4TX
Setting 73
02-J-5
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.8826G	42.84	54.00	-11.16	18.11	3	Vertical	97	1.33
PK	15.873G	56.64	74.00	-17.36	18.12	3	Vertical	97	1.33

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5290MHz_TX

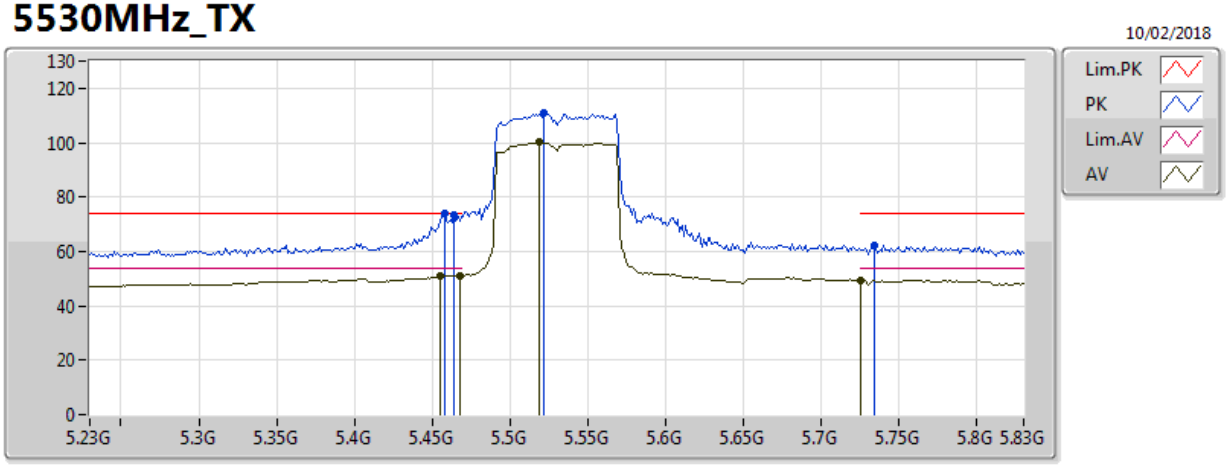


20180210
EUT Y_4TX
Setting 73
02-J-5
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.8756G	42.87	54.00	-11.13	18.12	3	Horizontal	6	1.13
PK	15.8318G	56.64	74.00	-17.36	18.19	3	Horizontal	6	1.13

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5530MHz_TX

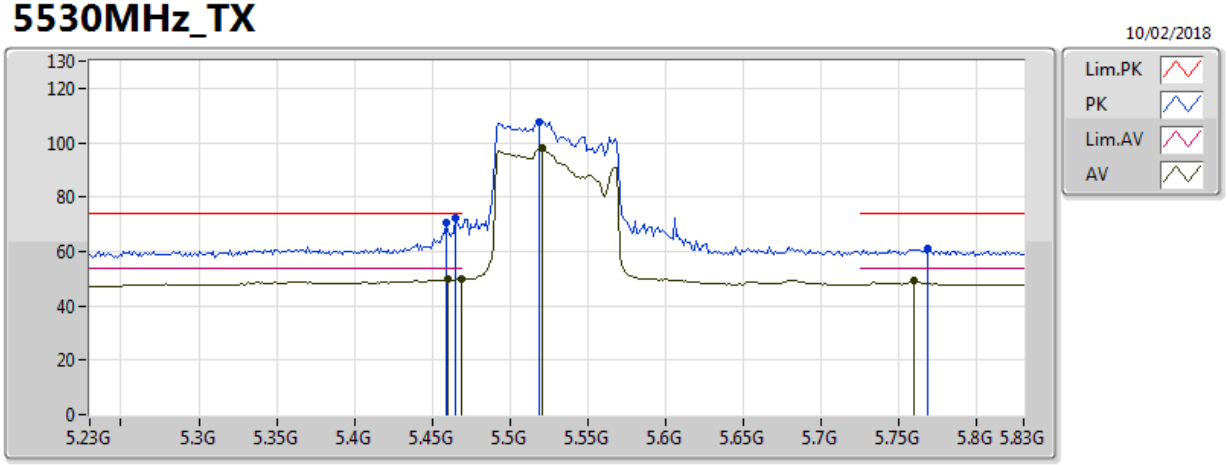


20180210
EUT Y_4TX
Setting 66
02-J-5-10
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.4556G	51.25	54.00	-2.75	11.09	3	Vertical	173	2.15
AV	5.4676G	51.17	54.00	-2.83	11.06	3	Vertical	173	2.15
AV	5.5192G	100.50	Inf	-Inf	10.87	3	Vertical	173	2.15
AV	5.7256G	49.33	54.00	-4.67	10.64	3	Vertical	173	2.15
PK	5.458G	73.95	74.00	-0.05	11.09	3	Vertical	173	2.15
PK	5.464G	73.39	74.00	-0.61	11.07	3	Vertical	173	2.15
PK	5.5216G	110.72	Inf	-Inf	10.86	3	Vertical	173	2.15
PK	5.734G	62.30	74.00	-11.70	10.65	3	Vertical	173	2.15

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5530MHz_TX

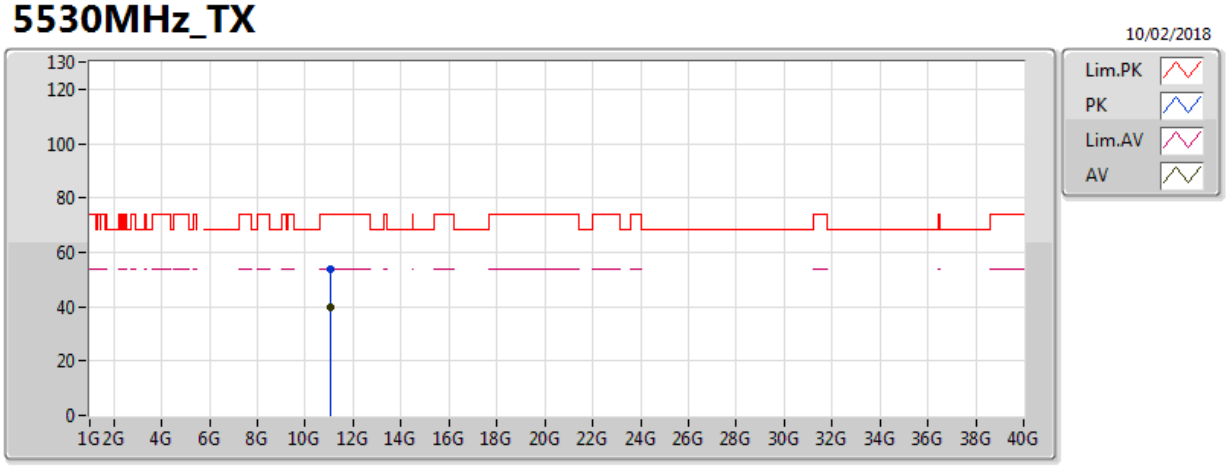


20180210
EUT Y_4TX
Setting 66
02-J-5-10
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.459995G	49.66	54.00	-4.34	11.08	3	Horizontal	309	2.12
AV	5.4688G	49.90	54.00	-4.10	11.05	3	Horizontal	309	2.12
AV	5.5204G	98.09	Inf	-Inf	10.87	3	Horizontal	309	2.12
AV	5.7592G	49.05	54.00	-4.95	10.68	3	Horizontal	309	2.12
PK	5.4592G	70.62	74.00	-3.38	11.08	3	Horizontal	309	2.12
PK	5.4652G	72.11	74.00	-1.89	11.06	3	Horizontal	309	2.12
PK	5.5192G	107.63	Inf	-Inf	10.87	3	Horizontal	309	2.12
PK	5.7688G	61.32	74.00	-12.68	10.70	3	Horizontal	309	2.12

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5530MHz_TX

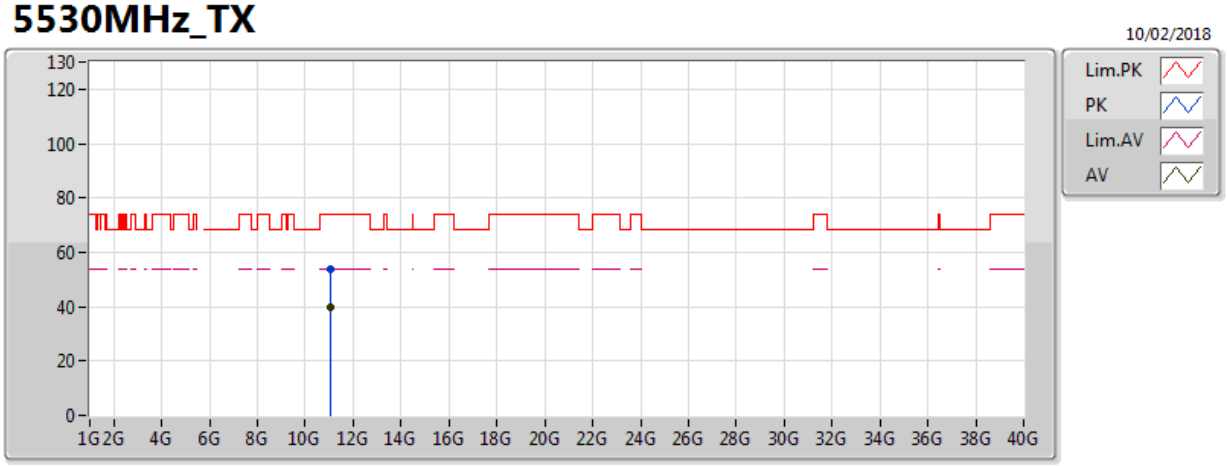


20180210
EUT Y_4TX
Setting 66
02-J-5
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.0814G	39.75	54.00	-14.25	14.88	3	Vertical	127	1.88
PK	11.0614G	53.76	74.00	-20.24	14.85	3	Vertical	127	1.88

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5530MHz_TX

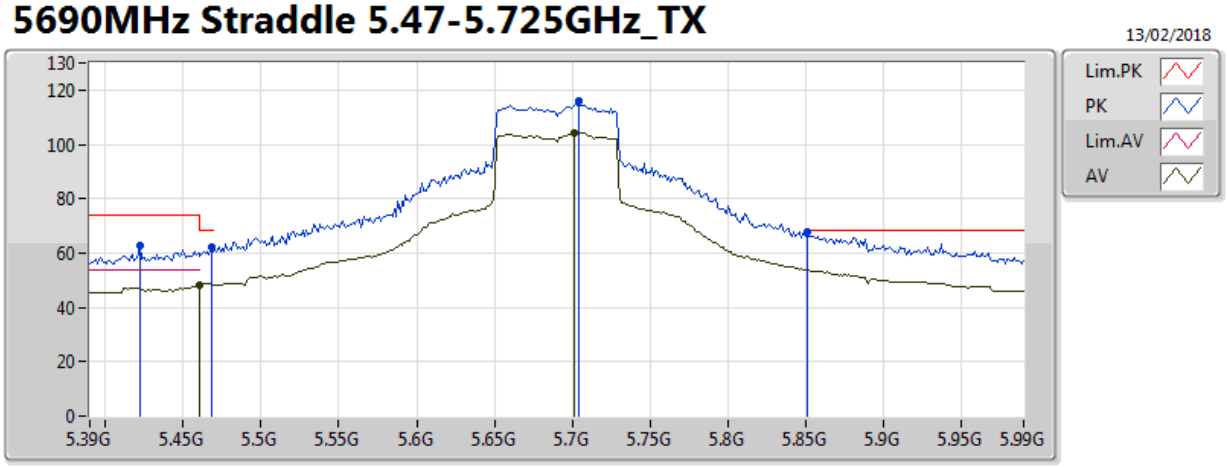


20180210
EUT Y_4TX
Setting 66
02-J-5
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.0827G	39.66	54.00	-14.34	14.88	3	Horizontal	235	1.87
PK	11.0758G	53.69	74.00	-20.31	14.87	3	Horizontal	235	1.87

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5690MHz Straddle 5.47-5.725GHz_TX



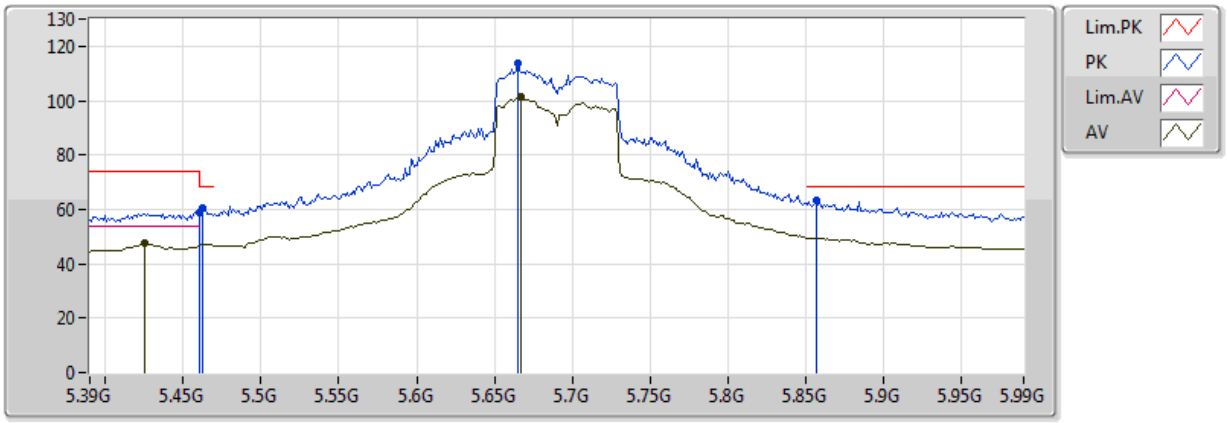
20170213
EUT Y_4TX
Setting 88
01-J-6-10
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.459995G	48.27	54.00	-5.73	5.92	3	Vertical	177	2.26	-
AV	5.7008G	104.33	Inf	-Inf	6.68	3	Vertical	177	2.26	-
PK	5.4224G	63.02	74.00	-10.98	5.84	3	Vertical	177	2.26	-
PK	5.468G	61.95	68.20	-6.25	5.93	3	Vertical	177	2.26	-
PK	5.7044G	115.72	Inf	-Inf	6.70	3	Vertical	177	2.26	-
PK	5.8508G	67.81	68.20	-0.39	7.20	3	Vertical	177	2.26	-

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5690MHz Straddle 5.47-5.725GHz_TX

13/02/2018

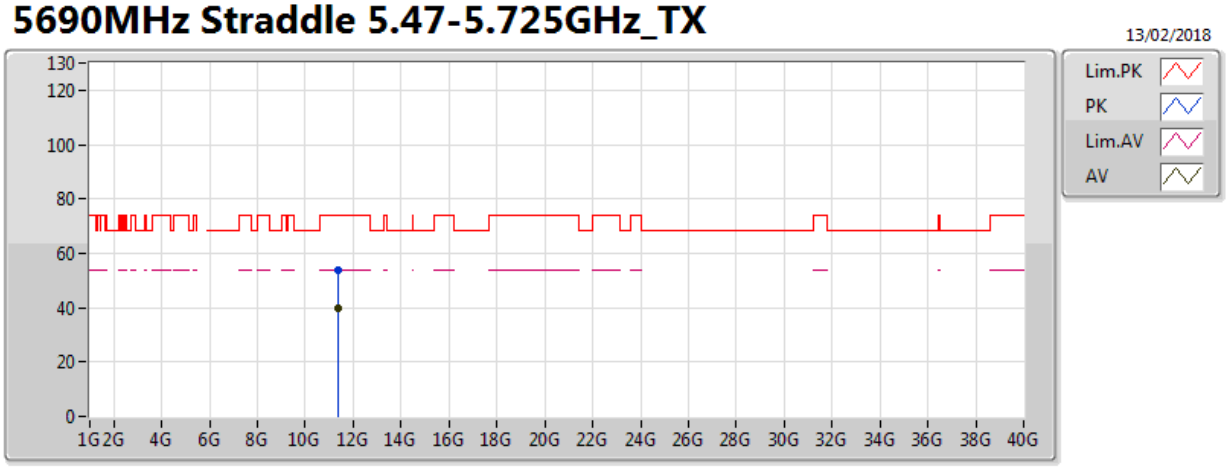


20170213
EUT Y_4TX
Setting 88
01-J-6-10
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.4248G	47.60	54.00	-6.40	5.84	3	Horizontal	218	1.96	-
AV	5.6672G	101.30	Inf	-Inf	6.55	3	Horizontal	218	1.96	-
PK	5.459995G	58.73	74.00	-15.27	5.92	3	Horizontal	218	1.96	-
PK	5.462G	60.34	68.20	-7.86	5.92	3	Horizontal	218	1.96	-
PK	5.6648G	113.87	Inf	-Inf	6.54	3	Horizontal	218	1.96	-
PK	5.8568G	63.15	68.20	-5.05	7.21	3	Horizontal	218	1.96	-

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5690MHz Straddle 5.47-5.725GHz_TX

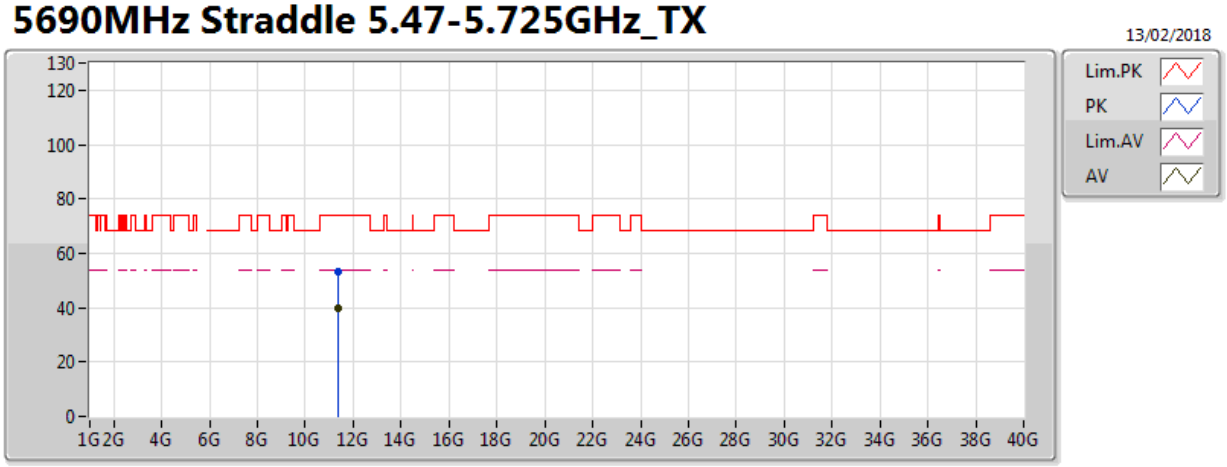


20170213
EUT Y_4TX
Setting 88
01-J-6
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.37492G	39.98	54.00	-14.02	13.31	3	Vertical	134	1.34	-
PK	11.3848G	54.07	74.00	-19.93	13.31	3	Vertical	134	1.34	-

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5690MHz Straddle 5.47-5.725GHz_TX



20170213
EUT Y_4TX
Setting 88
01-J-6
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.37792G	39.58	54.00	-14.42	13.31	3	Horizontal	259	1.84	-
PK	11.38104G	53.49	74.00	-20.51	13.31	3	Horizontal	259	1.84	-

Mode: 20 MHz / Port 2
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5299.9971	5299.9969	5299.9968	5299.9962
110.00	5299.9961	5299.9954	5299.9944	5299.9940
93.50	5299.9952	5299.9950	5299.9940	5299.9932
Max. Deviation (MHz)	0.0048	0.0050	0.0060	0.0068
Max. Deviation (ppm)	0.91	0.94	1.13	1.28
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5299.9942	5299.9934	5299.9932	5299.9922
10	5299.9955	5299.9954	5299.9948	5299.9946
20	5299.9961	5299.9956	5299.9947	5299.9943
30	5299.9965	5299.9955	5299.9950	5299.9947
40	5299.9979	5299.9975	5299.9965	5299.9956
Max. Deviation (MHz)	0.0090	0.0097	0.0098	0.0105
Max. Deviation (ppm)	1.70	1.83	1.85	1.98
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5579.9968	5579.9962	5579.9960	5579.9959
110.00	5579.9961	5579.9955	5579.9949	5579.9948
93.50	5579.9959	5579.9949	5579.9944	5579.9934
Max. Deviation (MHz)	0.0041	0.0051	0.0056	0.0066
Max. Deviation (ppm)	0.73	0.91	1.00	1.18
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5579.9926	5579.9919	5579.9911	5579.9907
10	5579.9945	5579.9941	5579.9936	5579.9929
20	5579.9961	5579.9959	5579.9951	5579.9943
30	5579.9965	5579.9961	5579.9957	5579.9952
40	5579.9972	5579.9969	5579.9968	5579.9962
Max. Deviation (MHz)	0.0096	0.0105	0.0115	0.0123
Max. Deviation (ppm)	1.72	1.88	2.06	2.20
Result	Pass			

Mode: 40 MHz / Port 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5309.9970	5309.9961	5309.9958	5309.9952
110.00	5309.9961	5309.9959	5309.9957	5309.9950
93.50	5309.9959	5309.9956	5309.9949	5309.9940
Max. Deviation (MHz)	0.0041	0.0044	0.0051	0.0060
Max. Deviation (ppm)	0.77	0.83	0.96	1.13
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5309.9934	5309.9930	5309.9928	5309.9919
10	5309.9941	5309.9937	5309.9936	5309.9933
20	5309.9961	5309.9954	5309.9948	5309.9941
30	5309.9965	5309.9958	5309.9949	5309.9945
40	5309.9970	5309.9964	5309.9961	5309.9953
Max. Deviation (MHz)	0.0086	0.0093	0.0094	0.0102
Max. Deviation (ppm)	1.62	1.75	1.77	1.92
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5549.9963	5549.9957	5549.9951	5549.9942
110.00	5549.9961	5549.9957	5549.9950	5549.9944
93.50	5549.9959	5549.9955	5549.9946	5549.9939
Max. Deviation (MHz)	0.0041	0.0045	0.0054	0.0061
Max. Deviation (ppm)	0.74	0.81	0.97	1.10
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5549.9938	5549.9936	5549.9931	5549.9924
10	5549.9956	5549.9955	5549.9953	5549.9946
20	5549.9961	5549.9957	5549.9953	5549.9950
30	5549.9965	5549.9957	5549.9955	5549.9947
40	5549.9983	5549.9981	5549.9974	5549.9969
Max. Deviation (MHz)	0.0092	0.0099	0.0102	0.0104
Max. Deviation (ppm)	1.66	1.78	1.84	1.87
Result	Pass			

Mode: 80 MHz / Port 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5289.9965	5289.9959	5289.9951	5289.9946
110.00	5289.9961	5289.9957	5289.9951	5289.9949
93.50	5289.9958	5289.9953	5289.9949	5289.9944
Max. Deviation (MHz)	0.0042	0.0047	0.0051	0.0056
Max. Deviation (ppm)	0.79	0.89	0.96	1.06
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5289.9939	5289.9931	5289.9921	5289.9920
10	5289.9952	5289.9943	5289.9940	5289.9934
20	5289.9961	5289.9957	5289.9948	5289.9940
30	5289.9965	5289.9962	5289.9952	5289.9948
40	5289.9978	5289.9970	5289.9969	5289.9959
Max. Deviation (MHz)	0.0087	0.0088	0.0091	0.0100
Max. Deviation (ppm)	1.64	1.66	1.72	1.89
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5529.9971	5529.9970	5529.9967	5529.9966
110.00	5529.9961	5529.9954	5529.9951	5529.9945
93.50	5529.9958	5529.9956	5529.9955	5529.9948
Max. Deviation (MHz)	0.0042	0.0046	0.0049	0.0055
Max. Deviation (ppm)	0.76	0.83	0.89	0.99
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5529.9921	5529.9916	5529.9915	5529.9909
10	5529.9941	5529.9932	5529.9925	5529.9923
20	5529.9961	5529.9955	5529.9947	5529.9939
30	5529.9965	5529.9961	5529.9955	5529.9949
40	5529.9967	5529.9962	5529.9954	5529.9949
Max. Deviation (MHz)	0.0102	0.0104	0.0107	0.0116
Max. Deviation (ppm)	1.84	1.88	1.93	2.10
Result	Pass			