FCC RADIO TEST REPORT

FCC ID	:	2ARF9CSG-W1
Equipment	:	Versa Wireless AP Module for Cloud Services Gateway Appliances
Brand Name	:	VERSA NETWORKS
Model Name	:	CSG-W1
Applicant	:	Versa Networks 6001 America Center Dr, 4th floor, Suite 400, San Jose, CA 95002, USA
Manufacturer	:	Wistron NeWeb Corporation 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308 Taiwan
Standard	:	47 CFR FCC Part 15.407

The product was received on Sep. 18, 2018, and testing was started from Sep. 19, 2018 and completed on Oct. 03, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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

Approved by: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR891203-02	01	Initial issue of report	Nov. 09, 2018
FR891203-02	02	Adding mesh mode	Jan. 16, 2019

Summary of Test Result

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

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Vicky Huang

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		5500-5700	100-140 [11]
5250-5350	n (HT40), ac (VHT40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
5250-5350	ac (VHT80)	5290	58 [1]
5470-5725		5530-5610	106-122 [2]

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

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 and VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port	Brand	P/N	Antenna Type	Connector	cable color	Gain (dBi)
1	1	WIESON	GY121HT0330-016	Dipole Antenna	I-PEX	Gray	Note 1
2	2	WIESON	GY121HT0330-016	Dipole Antenna	I-PEX	Black	

Note 1:

Ant.	Port	Antenna Gain (dBi)		Cable Loss (dB)		True Gain (dBi)	
		2.4G	5G	2.4G	5G	2.4G	5G
1	1	3.10	4.55	0.75	1.61	2.35	2.94
2	2	3.10	4.55	1.00	1.78	2.10	2.77

Note 2: The above information was declared by manufacturer.
The EUT has two antennas.
2.4GHz Functions
For IEEE 802.11b/g/n/ac mode (2TX, 2RX):
Port 1 and Port 2 could transmit/receive simultaneously.
5GHz Functions
For IEEE 802.11a/n/ac mode (2TX, 2RX):
Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.967	0.146	2.068m	1k
802.11ac VHT20	0.985	0.066	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.97	0.132	2.44m	1k
802.11ac VHT80	0.941	0.264	1.153m	1k

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From host system			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
TPC Function	☒	With TPC	☐	Without TPC
Test Software Version	QCARCT v3.0.250.0			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT support function

Function	Support Type	Support Band
AP mode	Master	WLAN 2.4GHz/WLAN 5GHz Band 1~4
Mesh mode	Master	WLAN 2.4GHz/WLAN 5GHz Band 2~3

Note: The above information was declared by manufacturer.

1.1.6 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR891203-01AB

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

Modifications	Performance Checking
1. Adding 5GHz band 2 and band 3 (5250~5350 MHz, 5470~5725 MHz) for this device.	1. Emission Bandwidth. 2. Maximum Conducted Output Power. 3. Peak Power Spectral Density. 4. Unwanted Emissions Above 1GHz.
2. Adding mesh mode	It does not affect the test result.

1.2 Testing Applied Standards

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

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

1.3 Testing Location Information

Testing Location			
☐	HWA YA	ADD :	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)
		TEL :	886-3-327-3456 FAX : 886-3-327-0973
☒	JHUBEI	ADD :	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
		TEL :	886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Caster Chang	20°C / 50%	Sep. 21, 2018~Oct. 01, 218
Radiated	03CH01-CB	Stim Sung	22°C / 54%	Sep. 19, 2018~Oct. 03, 218

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%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	21.5
5300MHz	21.5
5320MHz	18.5
5500MHz	18
5580MHz	21
5700MHz	16
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5260MHz	21.5
5300MHz	21.5
5320MHz	20
5500MHz	19.5
5580MHz	21
5700MHz	16.5
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5270MHz	20.5
5310MHz	16
5510MHz	15
5550MHz	20.5
5670MHz	17.5
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5290MHz	16.5
5530MHz	16.5
5610MHz	19

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.

2.2 The Worst Case Measurement Configuration

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

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

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.: FA891203-02 for Co-location RF Exposure Evaluation.	

Note : The Adapter below is for measurement only, would not be marketed.
The Adapter information as below:

Support Unit	Brand	Model Number
Adapter	I.T.E	F24W5-120200SPAU

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

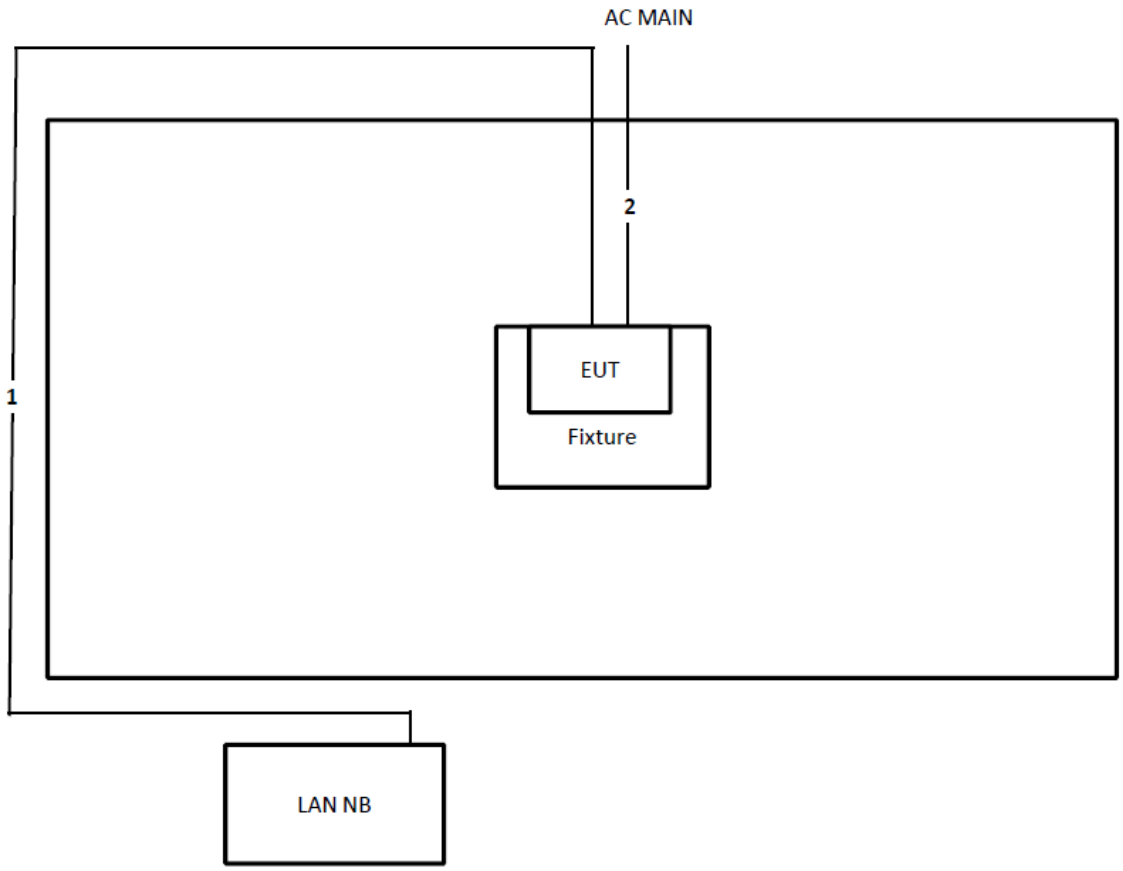
N/A

2.5 Support Equipment

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB	DELL	E4300	N/A
2	Fixture	WNC	48RAAAA2.SGA	N/A
3	Adapter	I.T.E	F24W5-120200SPAU	N/A

2.6 Test Setup Diagram

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.2m

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.

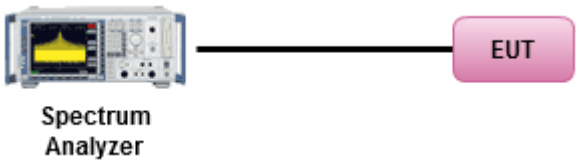
3.1.2 Measuring Instruments

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

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 e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
	▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for 0° ≤ 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.
☐	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If G_{TX} > 6 dBi, then PPSD= 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

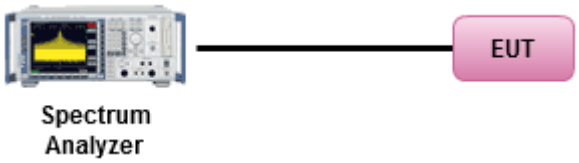
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:		
	☐ Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
	[duty cycle ≥ 98% or external video / power trigger]	
	☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).	
	☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)	
	duty cycle < 98% and average over on/off periods with duty factor	
	☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).	
	☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
▪ For conducted measurement.		
	▪ If the EUT supports multiple transmit chains using options given below:	
		☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
		☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
		☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
	▪	If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (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

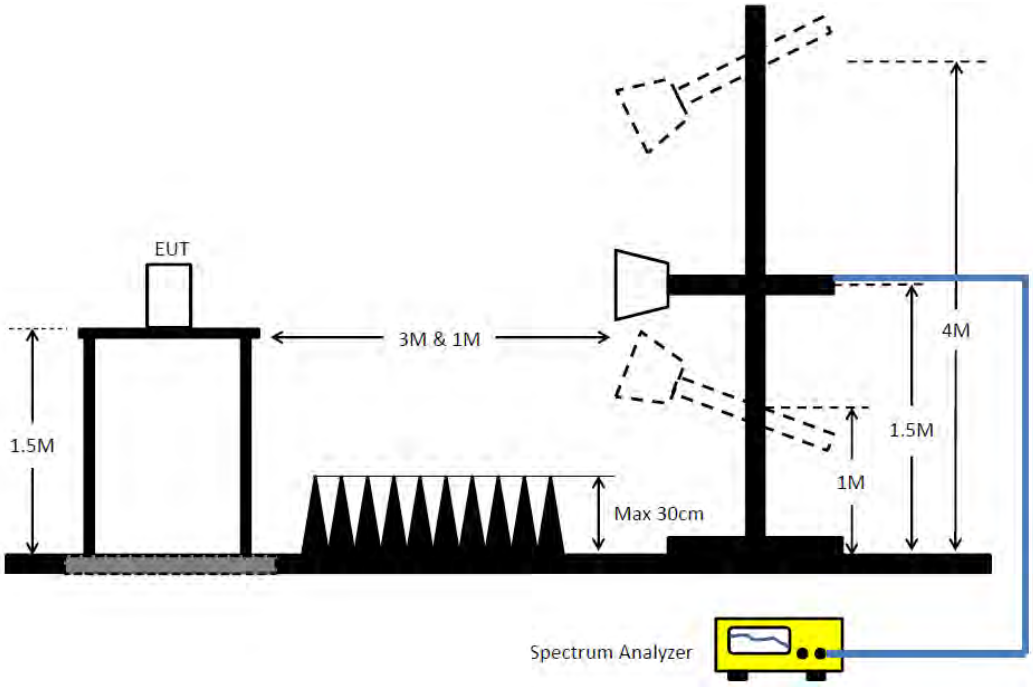
Refer a test equipment and calibration data table in this test report.

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

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	Jun. 28, 2018	Jun. 27, 2019	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. 04, 2018	Jul. 03, 2019	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	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 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)_2TX	39.625M	18.566M	18M6D1D	21.125M	16.417M
802.11ac VHT20_Nss1,(MCS0)_2TX	43.525M	18.891M	18M9D1D	29.9M	17.716M
802.11ac VHT40_Nss1,(MCS0)_2TX	80.1M	36.532M	36M5D1D	39.55M	35.932M
802.11ac VHT80_Nss1,(MCS0)_2TX	84.7M	75.762M	75M8D1D	84.4M	75.662M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	36.35M	17.141M	17M1D1D	18.975M	16.392M
802.11ac VHT20_Nss1,(MCS0)_2TX	40.025M	18.091M	18M1D1D	19.775M	17.616M
802.11ac VHT40_Nss1,(MCS0)_2TX	81.25M	36.832M	36M8D1D	39.65M	35.932M
802.11ac VHT80_Nss1,(MCS0)_2TX	85M	75.962M	76M0D1D	84.5M	75.662M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth;

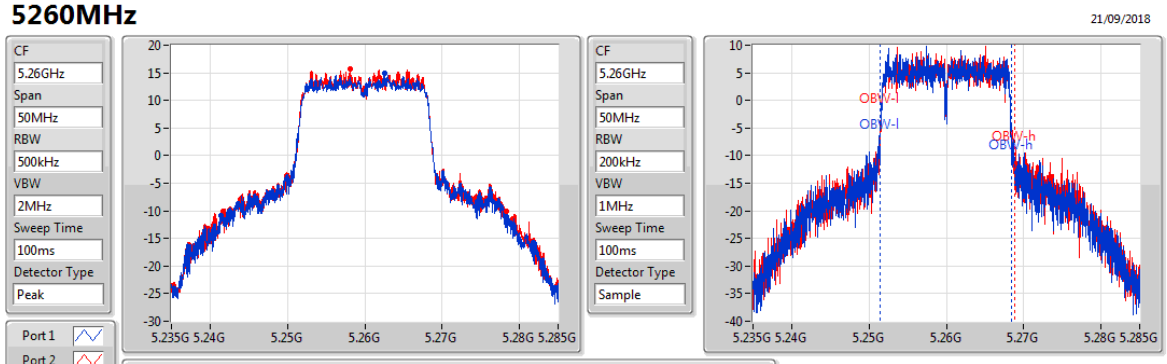
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	37.025M	17.041M	36.625M	17.416M
5300MHz	Pass	Inf	37.85M	17.566M	39.625M	18.566M
5320MHz	Pass	Inf	21.25M	16.417M	21.125M	16.442M
5500MHz	Pass	Inf	19.15M	16.417M	20.975M	16.442M
5580MHz	Pass	Inf	34.675M	16.667M	36.35M	17.141M
5700MHz	Pass	Inf	19.15M	16.417M	18.975M	16.392M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	42.675M	18.091M	42.45M	18.241M
5300MHz	Pass	Inf	42.675M	18.366M	43.525M	18.891M
5320MHz	Pass	Inf	29.9M	17.741M	33.15M	17.716M
5500MHz	Pass	Inf	22.175M	17.641M	29.675M	17.716M
5580MHz	Pass	Inf	36.425M	17.816M	40.025M	18.091M
5700MHz	Pass	Inf	19.775M	17.616M	19.85M	17.616M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	80.1M	36.532M	76.5M	36.432M
5310MHz	Pass	Inf	39.55M	35.982M	39.75M	35.932M
5510MHz	Pass	Inf	39.7M	35.932M	39.65M	35.982M
5550MHz	Pass	Inf	72.3M	36.282M	81.25M	36.832M
5670MHz	Pass	Inf	40.05M	35.932M	40.05M	35.982M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	84.4M	75.762M	84.7M	75.662M
5530MHz	Pass	Inf	84.8M	75.662M	84.7M	75.762M
5610MHz	Pass	Inf	85M	75.962M	84.5M	75.862M

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

802.11a_Nss1,(6Mbps)_2TX — EBW

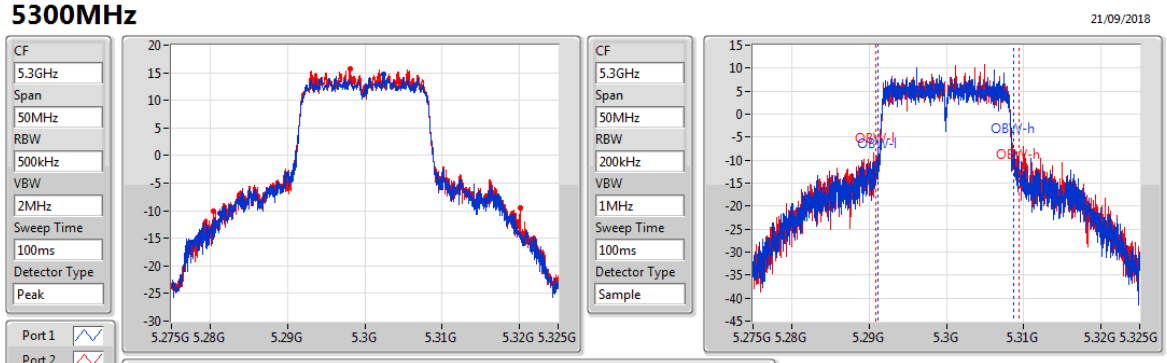
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.025M	5.24135G	5.278375G	17.041M	5.251454G	5.268496G	Inf	1
36.625M	5.24165G	5.278275G	17.416M	5.251454G	5.268871G	Inf	2

802.11a_Nss1,(6Mbps)_2TX — EBW

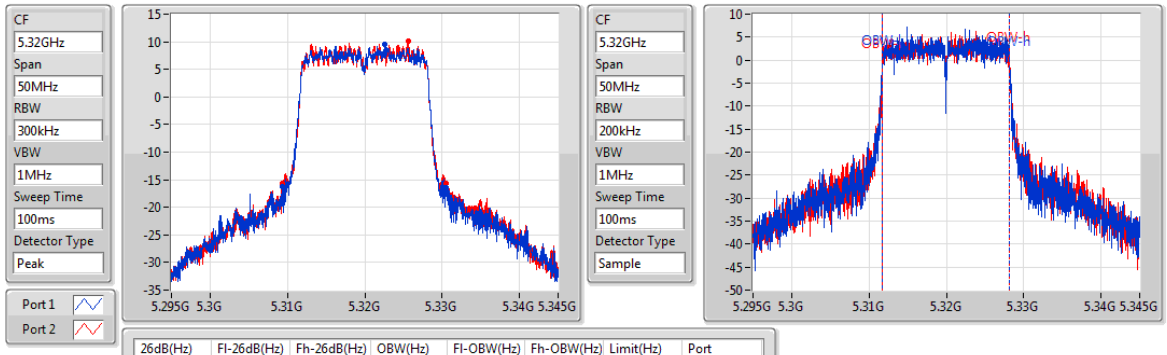
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.85M	5.2813G	5.31915G	17.566M	5.291204G	5.308771G	Inf	1
39.625M	5.28045G	5.320075G	18.566M	5.290855G	5.30942G	Inf	2

802.11a_Nss1,(6Mbps)_2TX — EBW

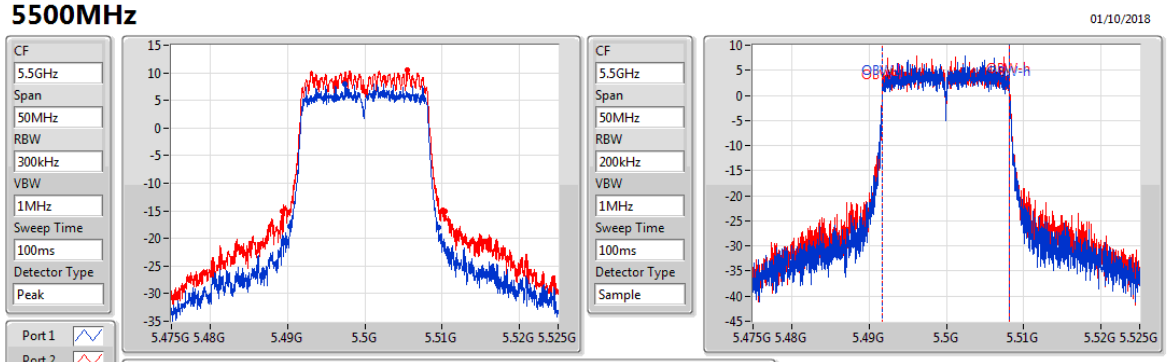
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.25M	5.309325G	5.330575G	16.417M	5.311754G	5.328171G	Inf	1
21.125M	5.3094G	5.330525G	16.442M	5.311729G	5.328171G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

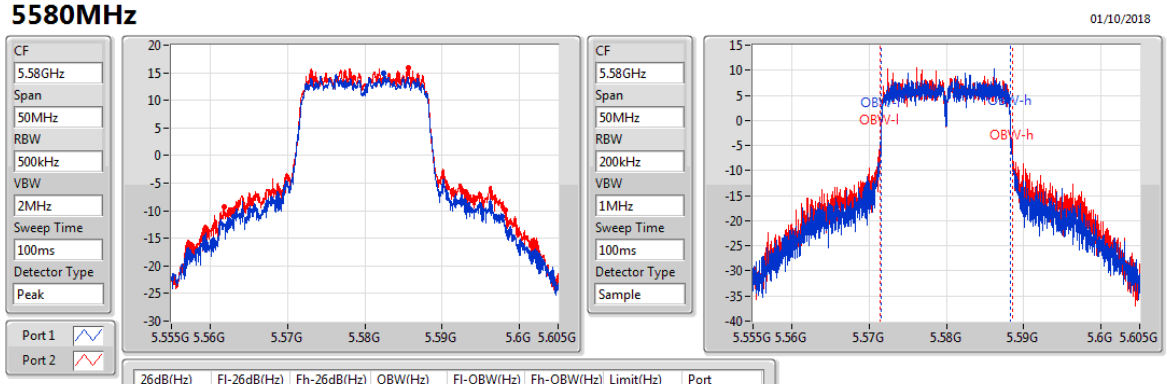
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.15M	5.49035G	5.5095G	16.417M	5.491754G	5.508171G	Inf	1
20.975M	5.4894G	5.510375G	16.442M	5.491754G	5.508196G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

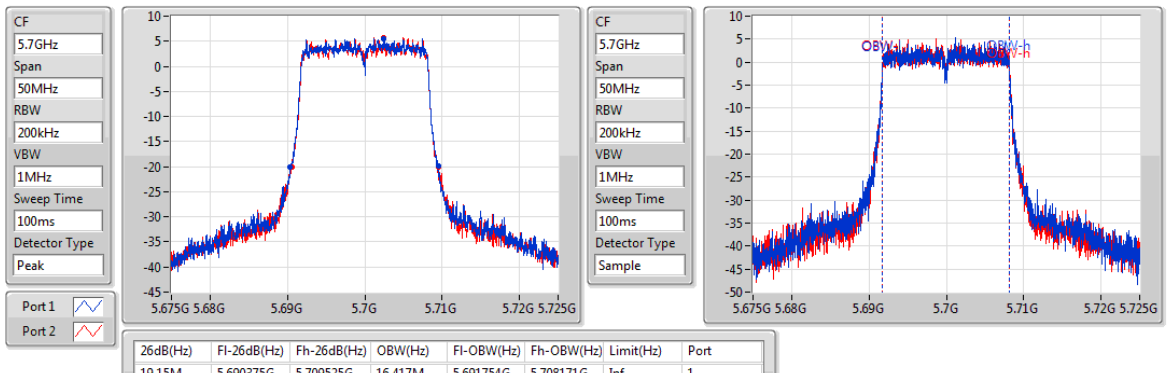
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.675M	5.563025G	5.5977G	16.667M	5.571629G	5.588296G	Inf	1
36.35M	5.561775G	5.598125G	17.141M	5.571454G	5.588596G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

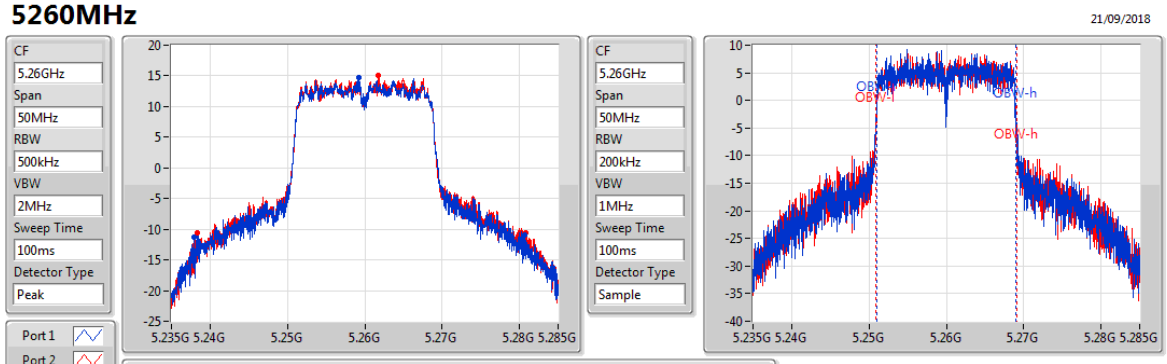
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.15M	5.690375G	5.709525G	16.417M	5.691754G	5.708171G	Inf	1
18.975M	5.69055G	5.709525G	16.392M	5.691779G	5.708171G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

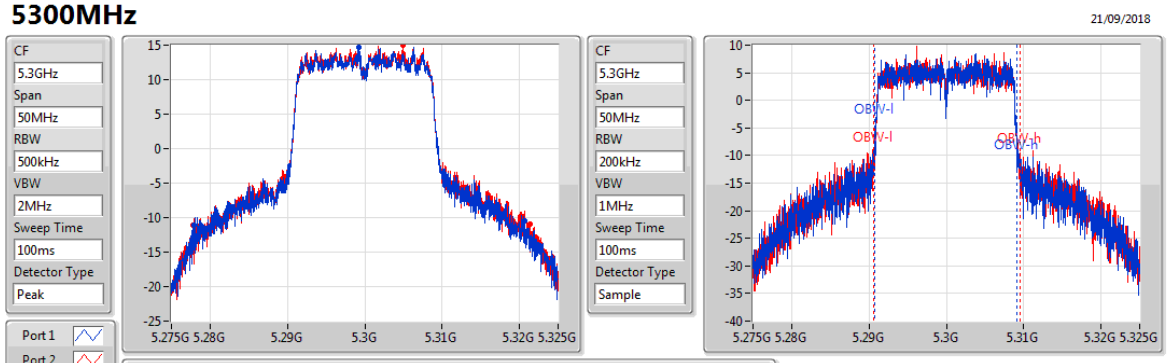
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.675M	5.23795G	5.280625G	18.091M	5.250955G	5.269045G	Inf	1
42.45M	5.238325G	5.280775G	18.241M	5.250905G	5.269145G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

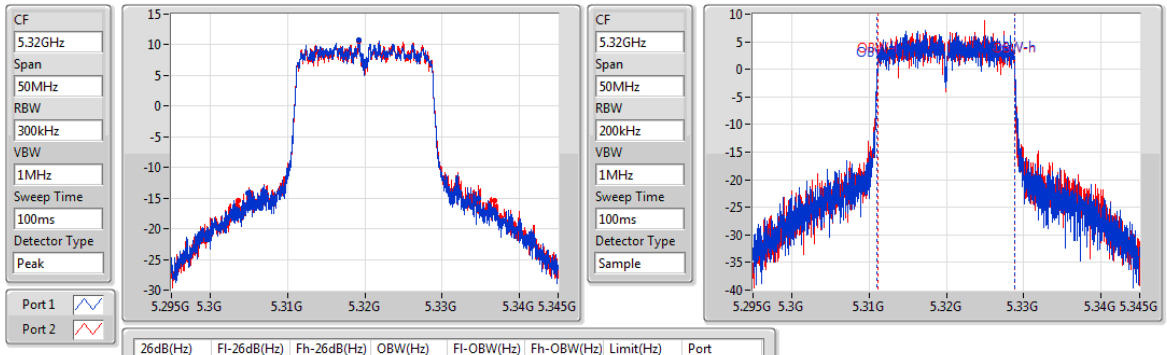
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.675M	5.277975G	5.32065G	18.366M	5.290755G	5.30912G	Inf	1
43.525M	5.27785G	5.321375G	18.891M	5.29063G	5.30952G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

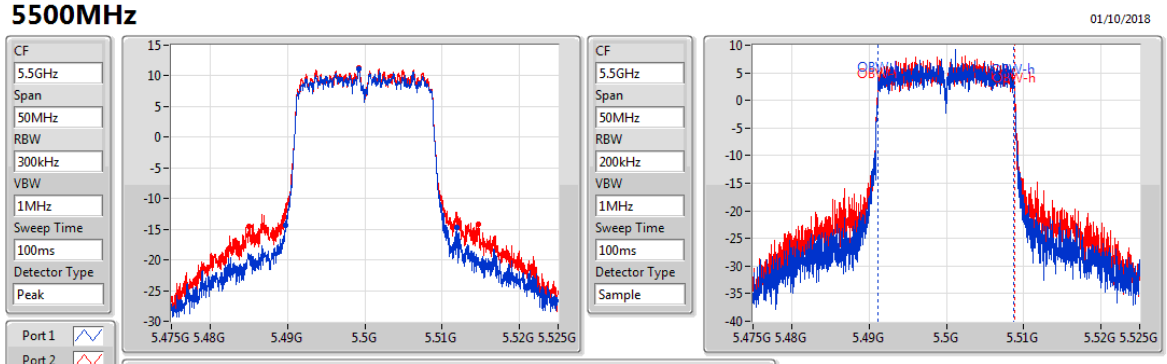
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.9M	5.30485G	5.33475G	17.741M	5.311079G	5.328821G	Inf	1
33.15M	5.3037G	5.33685G	17.716M	5.311104G	5.328821G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

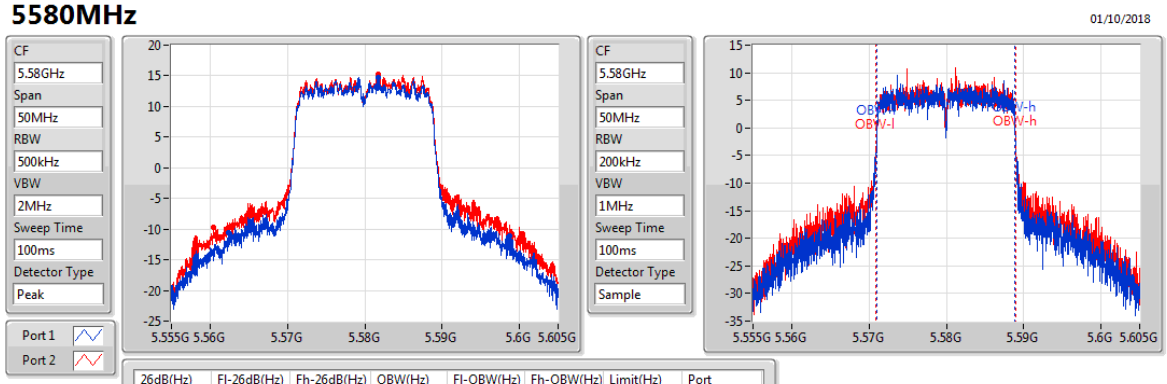
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.175M	5.489725G	5.5119G	17.641M	5.491129G	5.508771G	Inf	1
29.675M	5.48505G	5.514725G	17.716M	5.491104G	5.508821G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

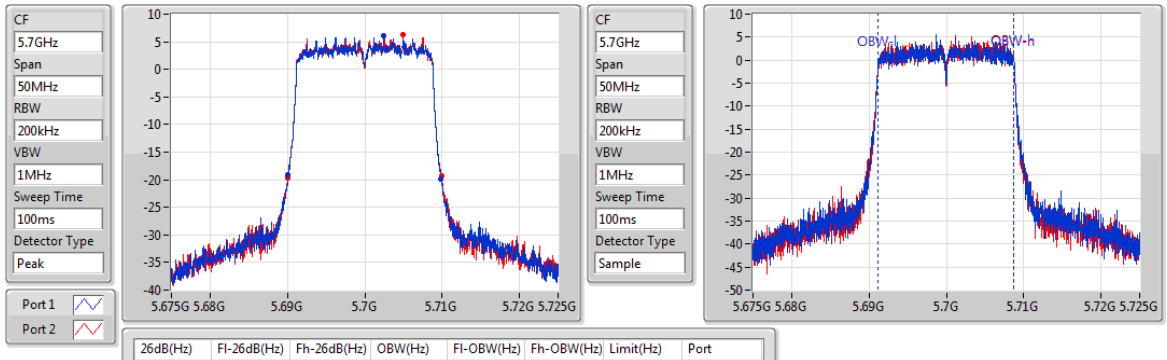
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.425M	5.562325G	5.59875G	17.816M	5.571054G	5.588871G	Inf	1
40.025M	5.560425G	5.60045G	18.091M	5.57093G	5.58902G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5700MHz

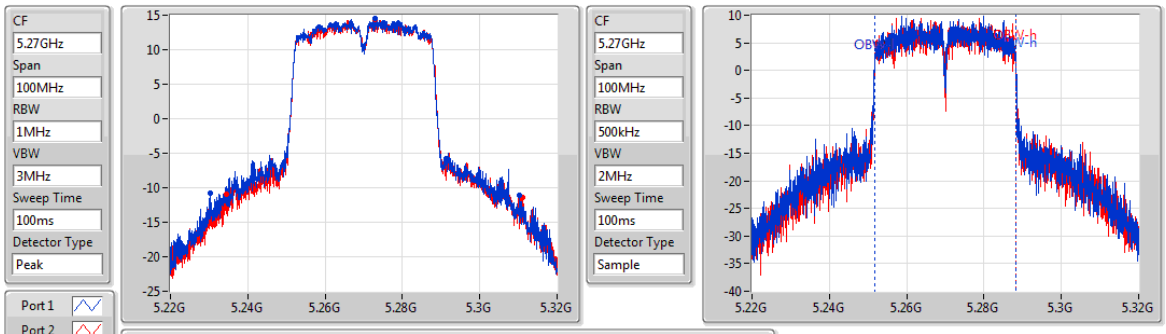


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.775M	5.690075G	5.70985G	17.616M	5.691154G	5.708771G	Inf	1
19.85M	5.69005G	5.7099G	17.616M	5.691154G	5.708771G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5270MHz

21/09/2018

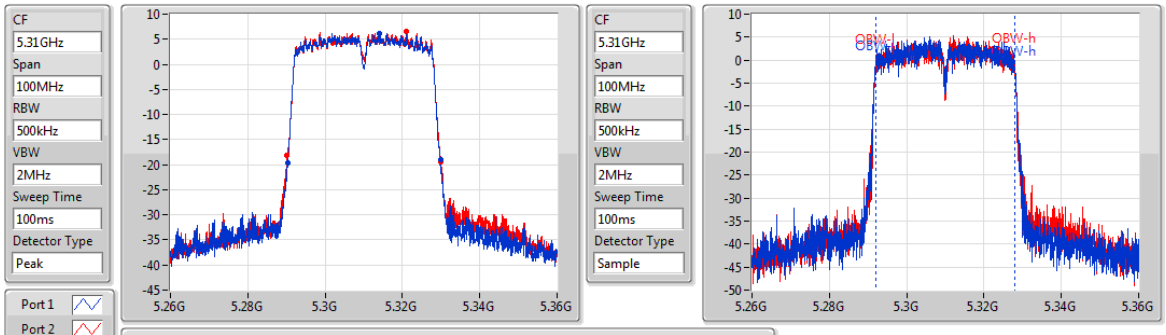


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.1M	5.2302G	5.3103G	36.532M	5.251709G	5.288241G	Inf	1
76.5M	5.2345G	5.311G	36.432M	5.251759G	5.288191G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5310MHz

21/09/2018

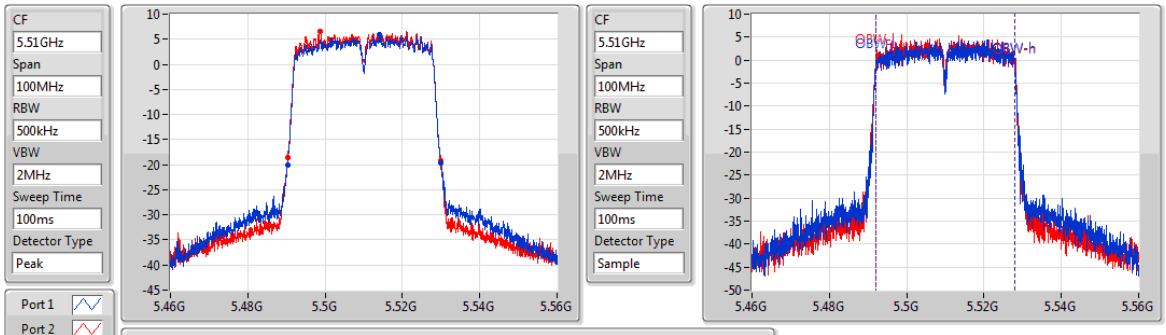


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.55M	5.2903G	5.32985G	35.982M	5.291959G	5.327941G	Inf	1
39.75M	5.2902G	5.32995G	35.932M	5.292009G	5.327941G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5510MHz

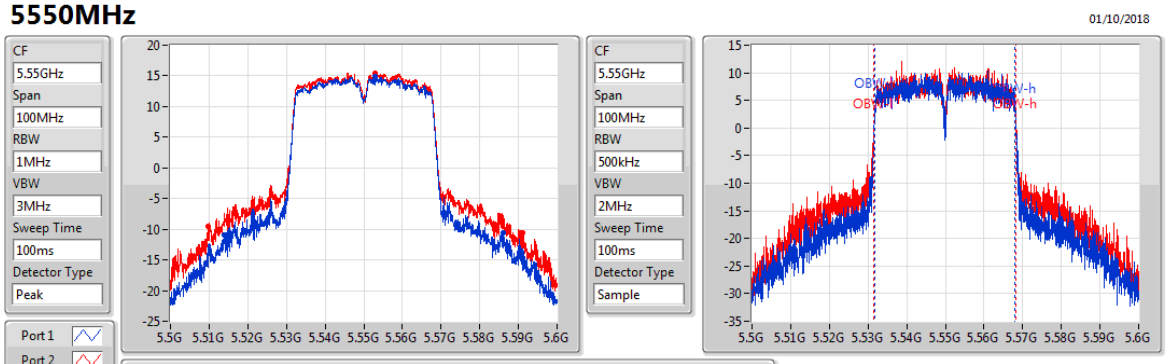
01/10/2018



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.7M	5.49025G	5.52995G	35.932M	5.492009G	5.527941G	Inf	1
39.65M	5.4903G	5.52995G	35.982M	5.492009G	5.527991G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

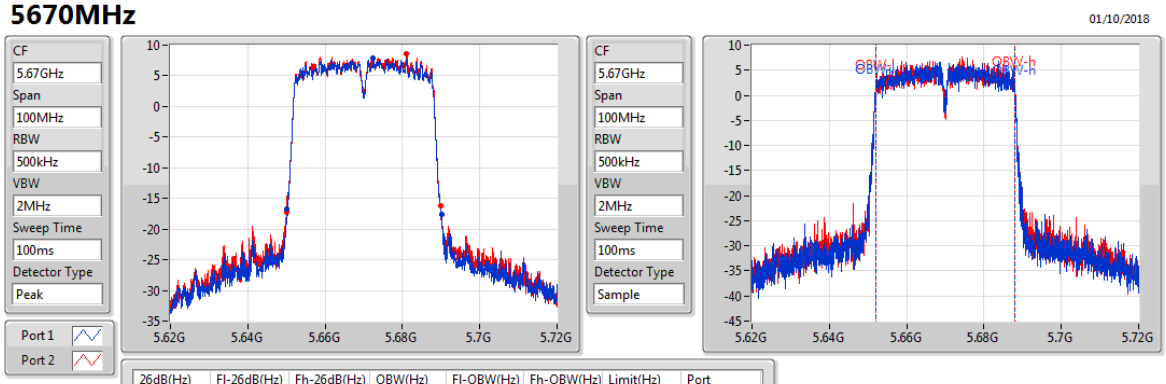
5550MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
72.3M	5.5138G	5.5861G	36.282M	5.531809G	5.568091G	Inf	1
81.25M	5.5098G	5.59105G	36.832M	5.531509G	5.568341G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

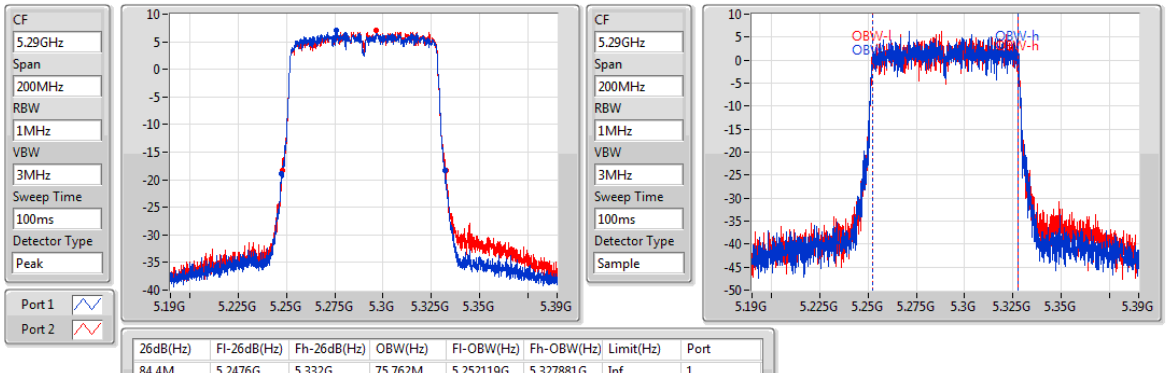
5670MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.05M	5.65005G	5.6901G	35.932M	5.652009G	5.687941G	Inf	1
40.05M	5.64995G	5.69G	35.982M	5.652009G	5.687991G	Inf	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5290MHz

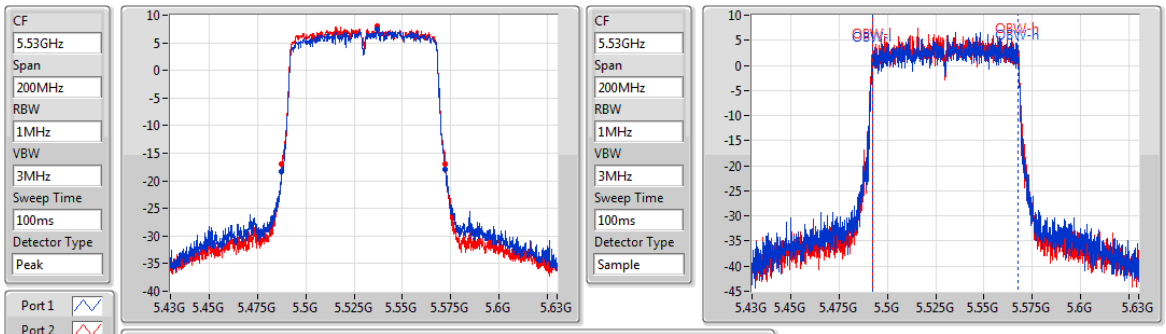


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
84.4M	5.2476G	5.332G	75.762M	5.252119G	5.327881G	Inf	1
84.7M	5.2477G	5.3324G	75.662M	5.252119G	5.327781G	Inf	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5530MHz

01/10/2018

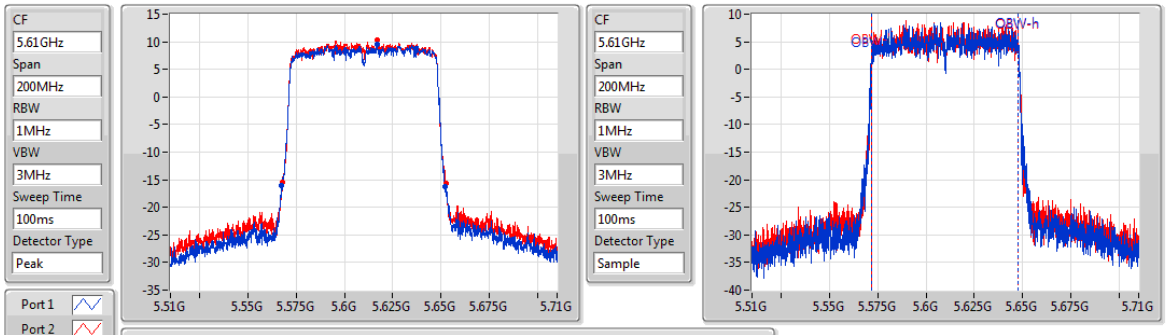


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
84.8M	5.4875G	5.5723G	75.662M	5.492219G	5.567881G	Inf	1
84.7M	5.4876G	5.5723G	75.762M	5.492119G	5.567881G	Inf	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5610MHz

01/10/2018



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
85M	5.5673G	5.6523G	75.962M	5.571919G	5.647881G	Inf	1
84.5M	5.5679G	5.6524G	75.862M	5.572019G	5.647881G	Inf	2

Summary

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	23.63	0.23067
802.11ac VHT20_Nss1,(MCS0)_2TX	23.68	0.23335
802.11ac VHT40_Nss1,(MCS0)_2TX	23.27	0.21232
802.11ac VHT80_Nss1,(MCS0)_2TX	18.86	0.07691
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	23.85	0.24266
802.11ac VHT20_Nss1,(MCS0)_2TX	23.63	0.23067
802.11ac VHT40_Nss1,(MCS0)_2TX	23.74	0.23659
802.11ac VHT80_Nss1,(MCS0)_2TX	21.87	0.15382

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	2.94	20.58	20.66	23.63	23.98
5300MHz	Pass	2.94	20.55	20.67	23.62	23.98
5320MHz	Pass	2.94	18.05	18.10	21.09	23.98
5500MHz	Pass	2.94	18.34	18.71	21.54	23.82
5580MHz	Pass	2.94	20.66	21.02	23.85	23.98
5700MHz	Pass	2.94	16.07	16.11	19.10	23.78
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	2.94	20.57	20.73	23.66	23.98
5300MHz	Pass	2.94	20.59	20.75	23.68	23.98
5320MHz	Pass	2.94	19.41	19.47	22.45	23.98
5500MHz	Pass	2.94	19.46	19.88	22.69	23.98
5580MHz	Pass	2.94	20.45	20.79	23.63	23.98
5700MHz	Pass	2.94	16.56	16.72	19.65	23.96
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	2.94	20.36	20.15	23.27	23.98
5310MHz	Pass	2.94	15.97	16.01	19.00	23.98
5510MHz	Pass	2.94	15.32	15.63	18.49	23.98
5550MHz	Pass	2.94	20.56	20.89	23.74	23.98
5670MHz	Pass	2.94	17.68	17.88	20.79	23.98
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	2.94	15.82	15.88	18.86	23.98
5530MHz	Pass	2.94	16.21	16.67	19.46	23.98
5610MHz	Pass	2.94	18.63	19.08	21.87	23.98

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

Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_2TX	10.64
802.11ac VHT20_Nss1,(MCS0)_2TX	10.35
802.11ac VHT40_Nss1,(MCS0)_2TX	7.30
802.11ac VHT80_Nss1,(MCS0)_2TX	-0.60
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_2TX	10.77
802.11ac VHT20_Nss1,(MCS0)_2TX	10.43
802.11ac VHT40_Nss1,(MCS0)_2TX	7.75
802.11ac VHT80_Nss1,(MCS0)_2TX	2.76

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

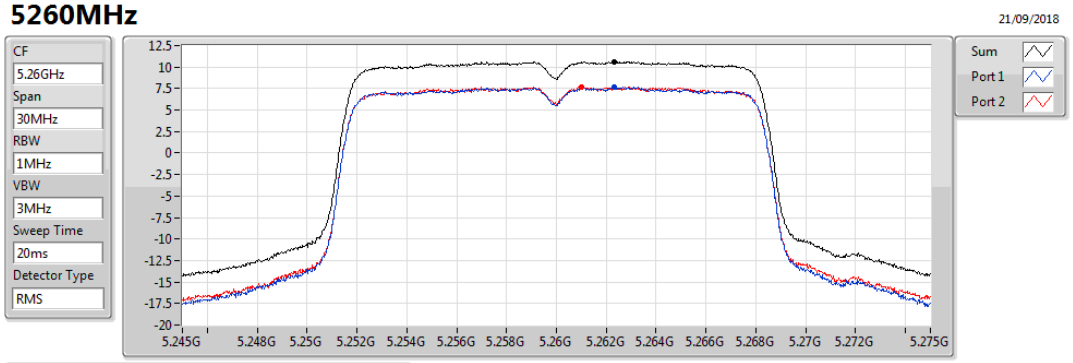
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	5.87	7.66	7.67	10.64	11.00
5300MHz	Pass	5.87	7.50	7.58	10.50	11.00
5320MHz	Pass	5.87	5.14	5.09	8.04	11.00
5500MHz	Pass	5.87	5.28	5.60	8.42	11.00
5580MHz	Pass	5.87	7.65	7.93	10.77	11.00
5700MHz	Pass	5.87	2.87	3.01	5.93	11.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	5.87	7.29	7.46	10.35	11.00
5300MHz	Pass	5.87	7.19	7.43	10.27	11.00
5320MHz	Pass	5.87	6.07	6.08	9.05	11.00
5500MHz	Pass	5.87	6.32	6.75	9.52	11.00
5580MHz	Pass	5.87	7.24	7.72	10.43	11.00
5700MHz	Pass	5.87	3.32	3.55	6.39	11.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	5.87	4.41	4.30	7.30	11.00
5310MHz	Pass	5.87	-0.22	-0.22	2.76	11.00
5510MHz	Pass	5.87	-0.85	-0.28	2.42	11.00
5550MHz	Pass	5.87	4.62	4.97	7.75	11.00
5670MHz	Pass	5.87	1.58	1.79	4.65	11.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	5.87	-3.51	-3.66	-0.60	11.00
5530MHz	Pass	5.87	-2.79	-2.63	0.24	11.00
5610MHz	Pass	5.87	-0.43	0.09	2.76	11.00

DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11a_Nss1,(6Mbps)_2TX **PSD**

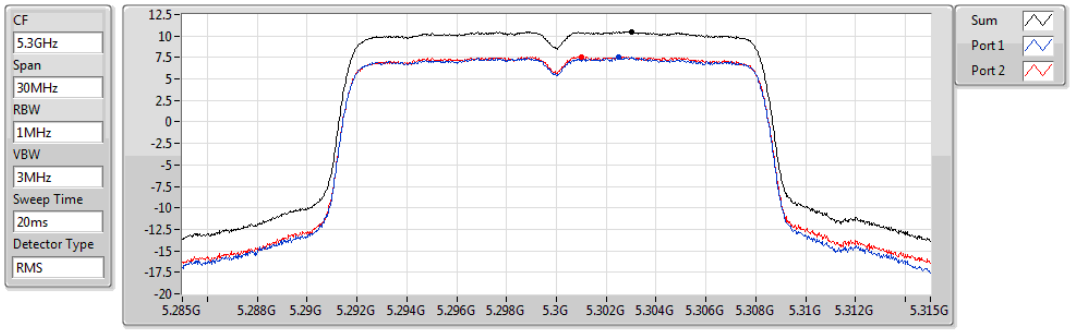
5260MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.64	10.64	7.66	7.67

802.11a_Nss1,(6Mbps)_2TX **PSD**

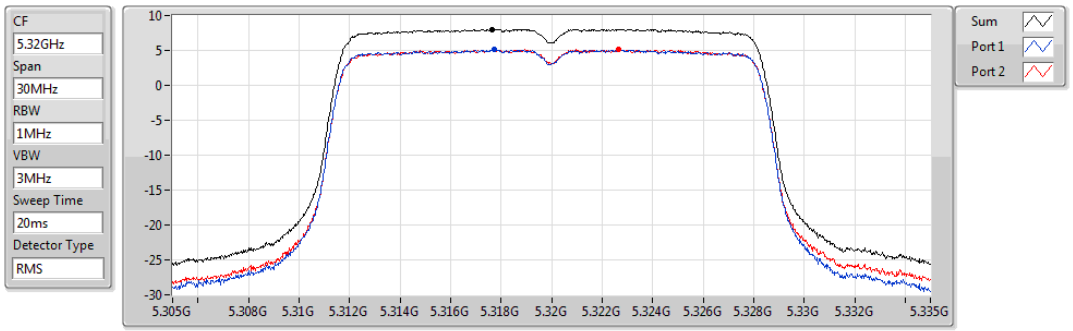
5300MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.50	10.50	7.50	7.58

802.11a_Nss1,(6Mbps)_2TX **PSD**

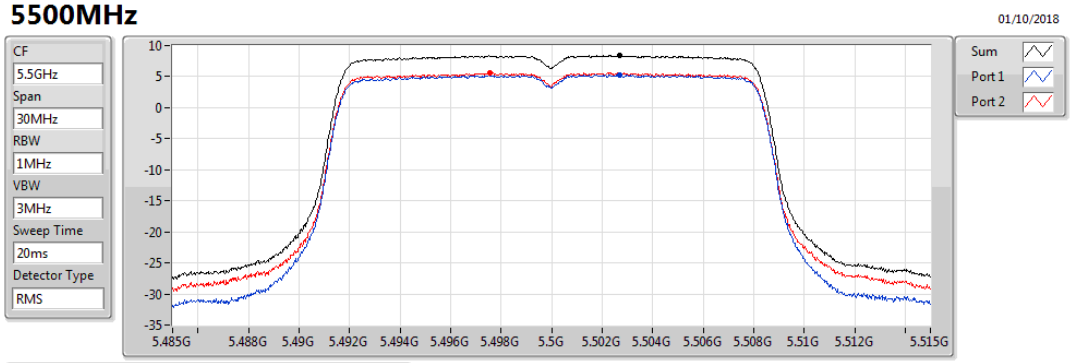
5320MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.04	8.04	5.14	5.09

802.11a_Nss1,(6Mbps)_2TX **PSD**

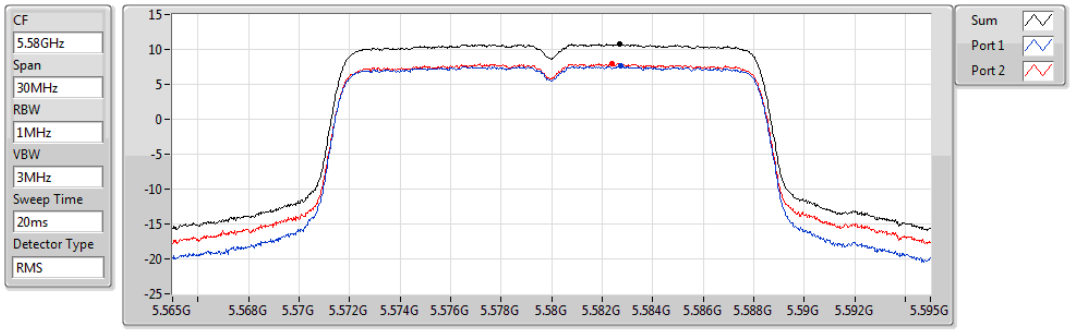
5500MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.42	8.42	5.28	5.60

802.11a_Nss1,(6Mbps)_2TX **PSD**

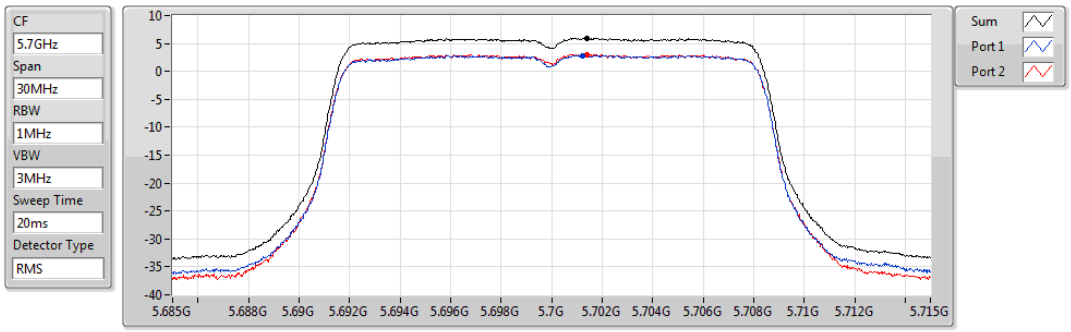
5580MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.77	10.77	7.65	7.93

802.11a_Nss1,(6Mbps)_2TX **PSD**

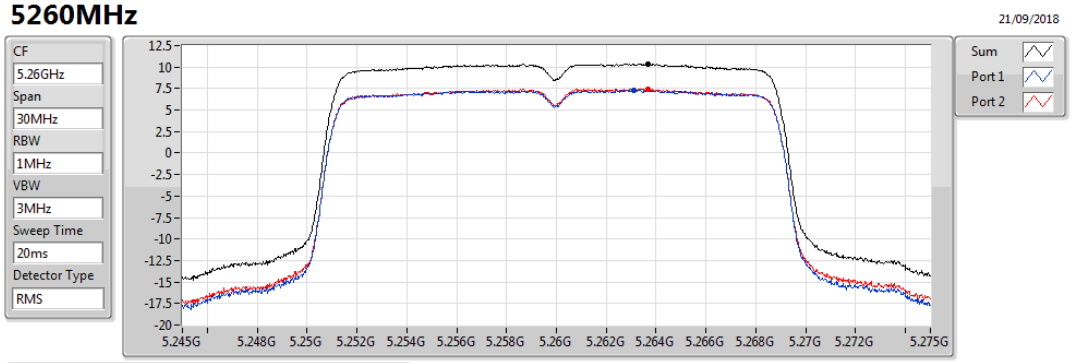
5700MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.93	5.93	2.87	3.01

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

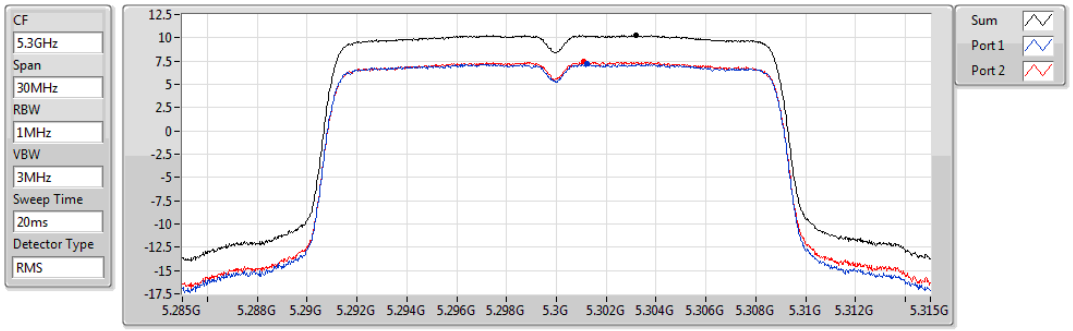
5260MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.35	10.35	7.29	7.46

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

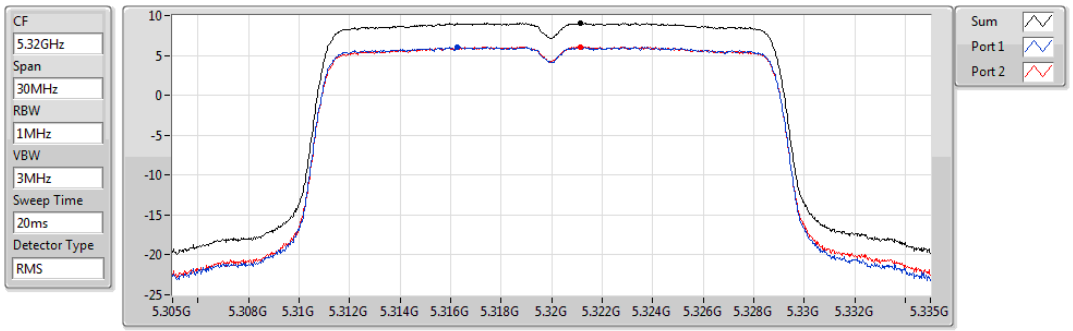
5300MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.27	10.27	7.19	7.43

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

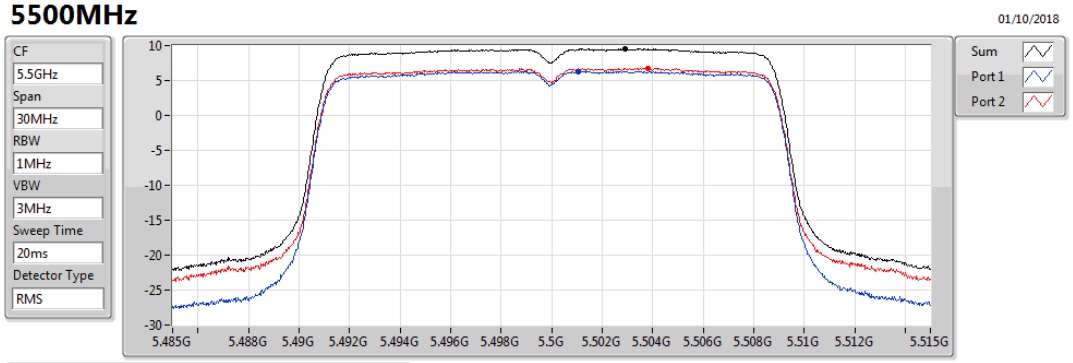
5320MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.05	9.05	6.07	6.08

802.11ac VHT20_Nss1,(MCS0)_2TX **PSD**

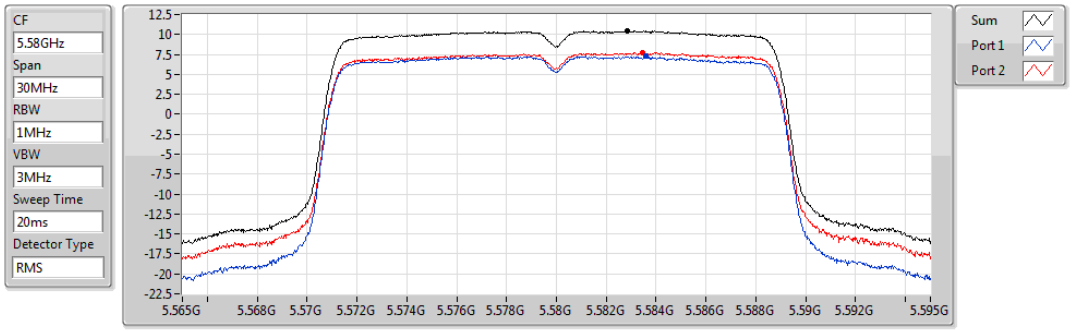
5500MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.52	9.52	6.32	6.75

802.11ac VHT20_Nss1,(MCS0)_2TX **PSD**

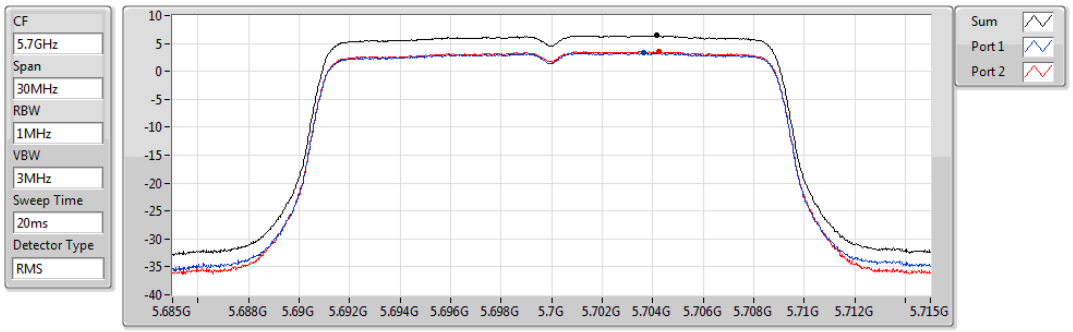
5580MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.43	10.43	7.24	7.72

802.11ac VHT20_Nss1,(MCS0)_2TX **PSD**

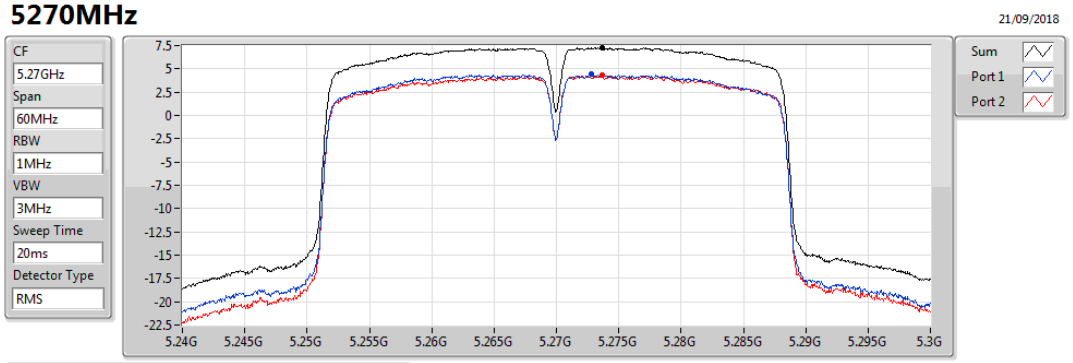
5700MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.39	6.39	3.32	3.55

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

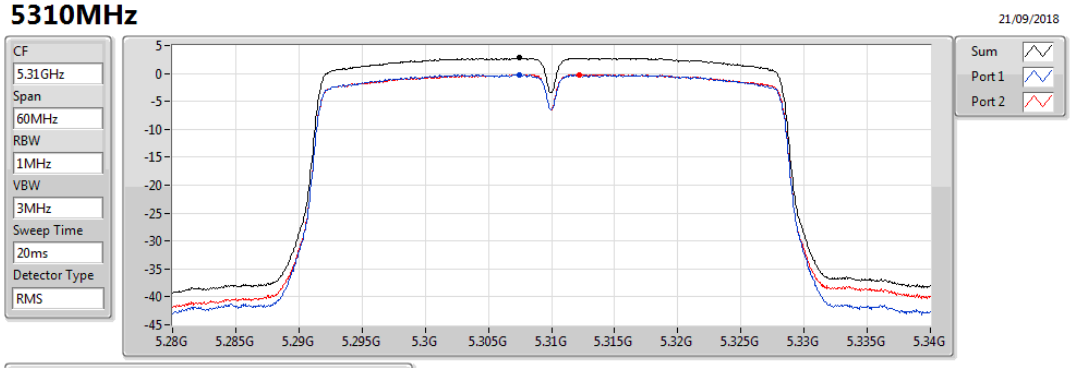
5270MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.30	7.30	4.41	4.30

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

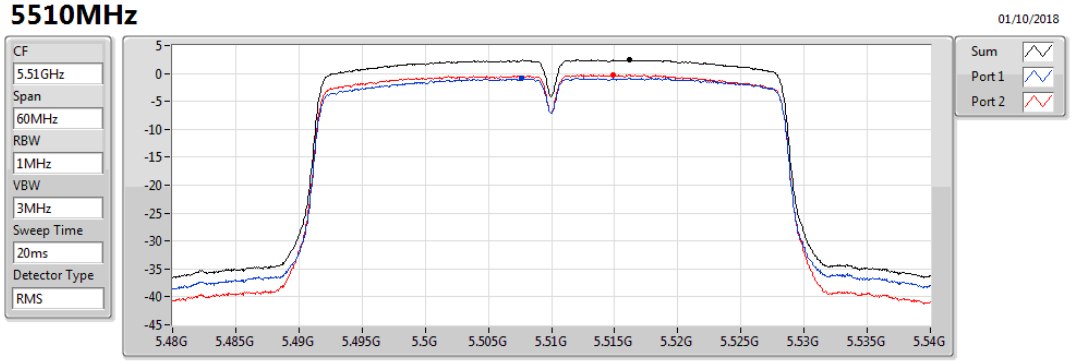
5310MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.76	2.76	-0.22	-0.22

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

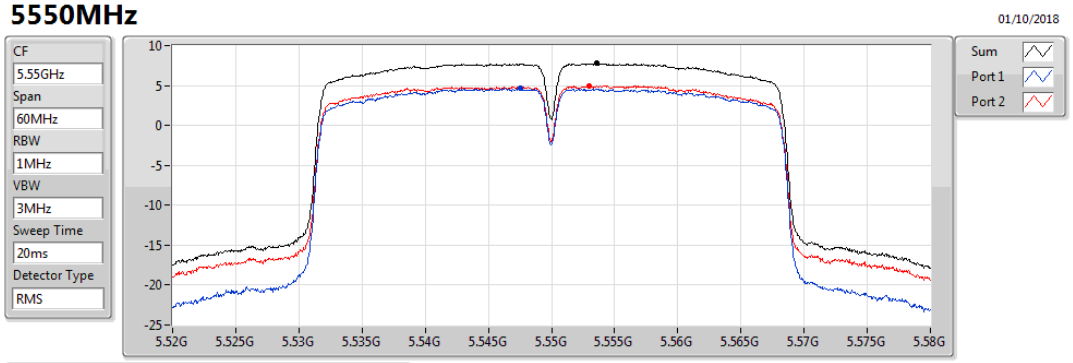
5510MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.42	2.42	-0.85	-0.28

802.11ac VHT40_Nss1,(MCS0)_2TX **PSD**

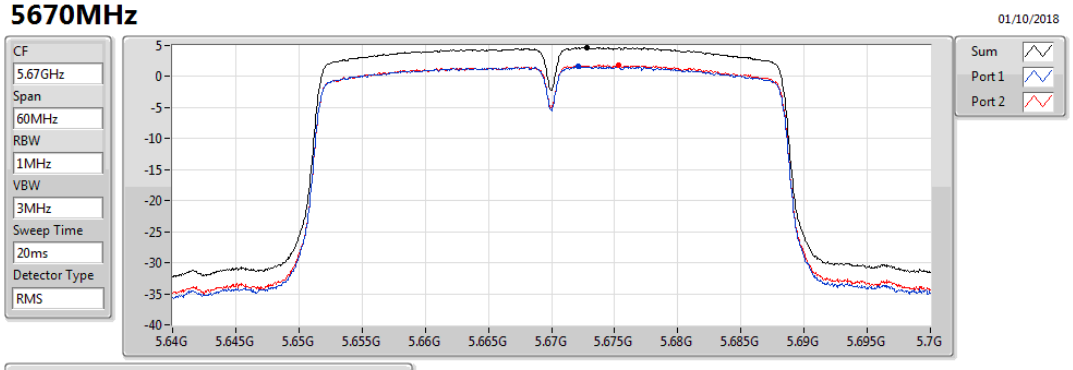
5550MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.75	7.75	4.62	4.97

802.11ac VHT40_Nss1,(MCS0)_2TX **PSD**

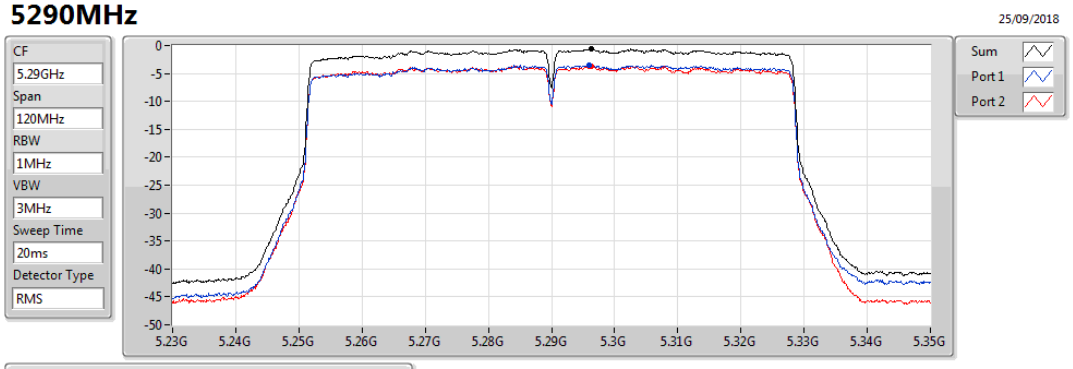
5670MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.65	4.65	1.58	1.79

802.11ac VHT80_Nss1,(MCS0)_2TX **PSD**

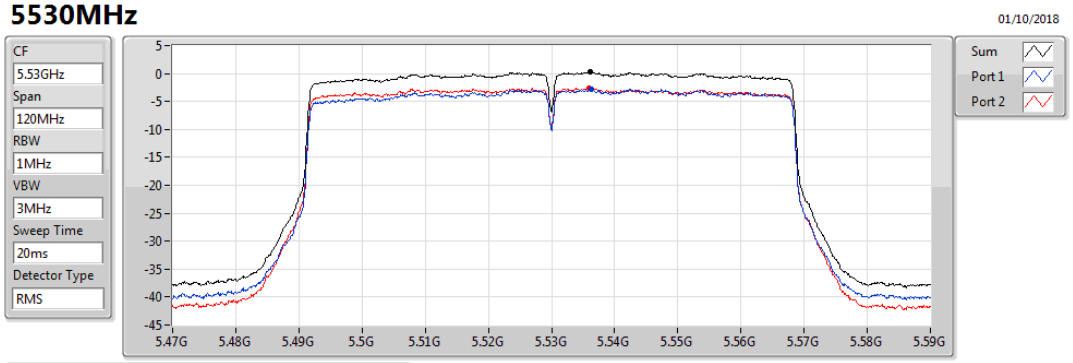
5290MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.60	-0.60	-3.51	-3.66

802.11ac VHT80_Nss1,(MCS0)_2TX **PSD**

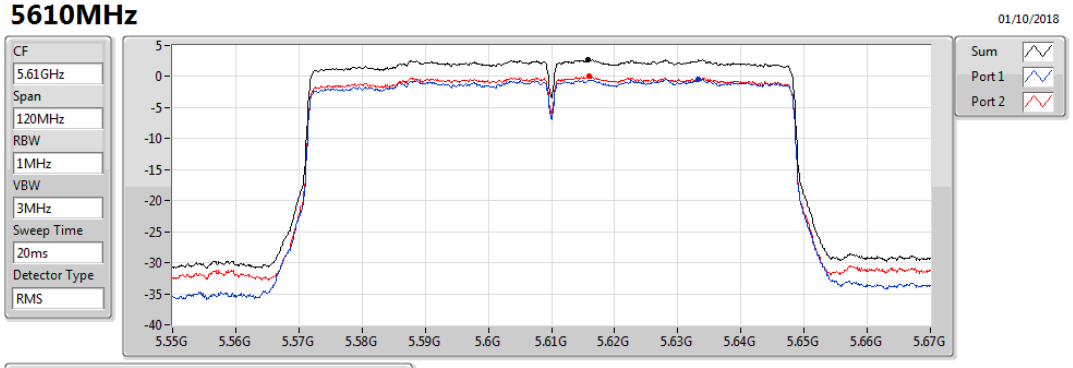
5530MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.24	0.24	-2.79	-2.63

802.11ac VHT80_Nss1,(MCS0)_2TX **PSD**

5610MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.76	2.76	-0.43	0.09

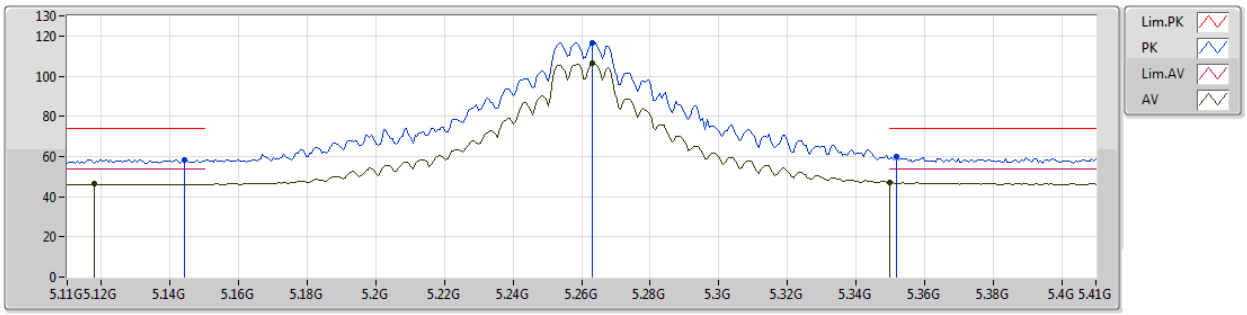
Summary

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	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	5.35G	53.95	54.00	-0.05	8.89	3	Vertical	296	2.16	-

802.11a_Nss1,(6Mbps)_2TX

5260MHz_TX

20/09/2018



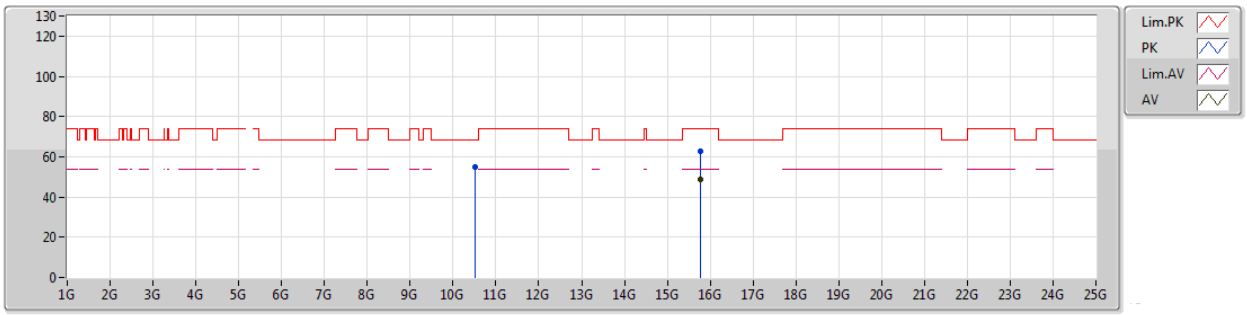
EUT Y_2TX
Setting 23
02-M-1-10
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.1442G	58.50	74.00	-15.50	8.56	3	Vertical	340	1.76
AV	5.1178G	46.24	54.00	-7.76	8.51	3	Vertical	340	1.76
PK	5.263G	116.63	Inf	-Inf	8.77	3	Vertical	340	1.76
AV	5.263G	106.68	Inf	-Inf	8.77	3	Vertical	340	1.76
PK	5.3518G	59.85	74.00	-14.15	8.89	3	Vertical	340	1.76
AV	5.35G	47.13	54.00	-6.87	8.89	3	Vertical	340	1.76

802.11a_Nss1,(6Mbps)_2TX

5260MHz_TX

20/09/2018



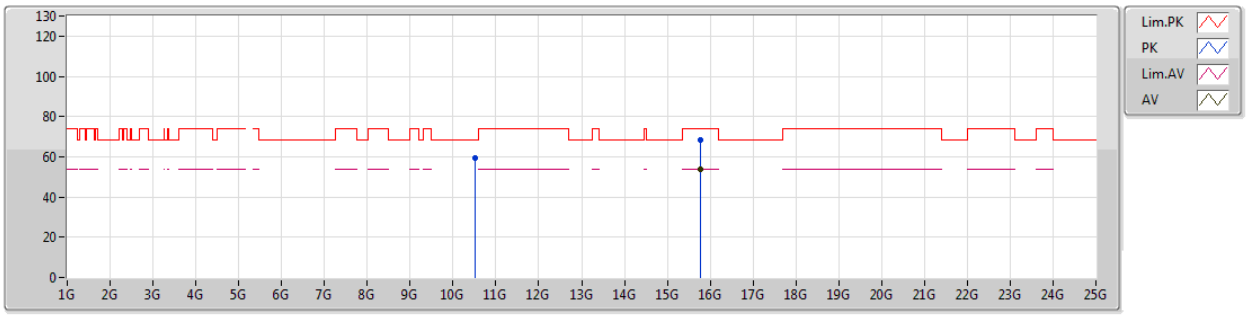
EUT Y_2TX
Setting 23
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.5209G	54.91	68.20	-13.29	14.48	3	Vertical	1	1.12
PK	15.7802G	62.53	74.00	-11.47	15.45	3	Vertical	19	1.76
AV	15.7798G	48.65	54.00	-5.35	15.45	3	Vertical	19	1.76

802.11a_Nss1,(6Mbps)_2TX

5260MHz_TX

20/09/2018



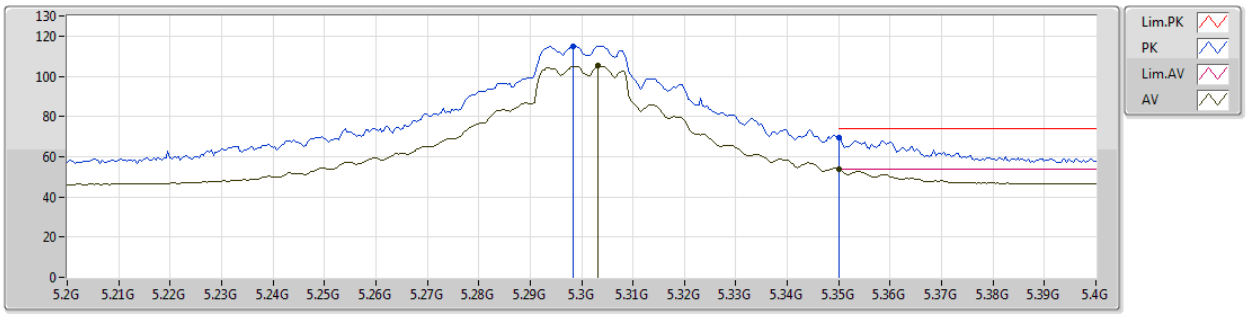
EUT Y_2TX
Setting 23
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.5204G	59.56	68.20	-8.64	14.48	3	Horizontal	303	2.68
PK	15.7803G	68.23	74.00	-5.77	15.45	3	Horizontal	285	1.18
AV	15.78G	53.93	54.00	-0.07	15.45	3	Horizontal	285	1.18

802.11a_Nss1,(6Mbps)_2TX

5300MHz_TX

20/09/2018



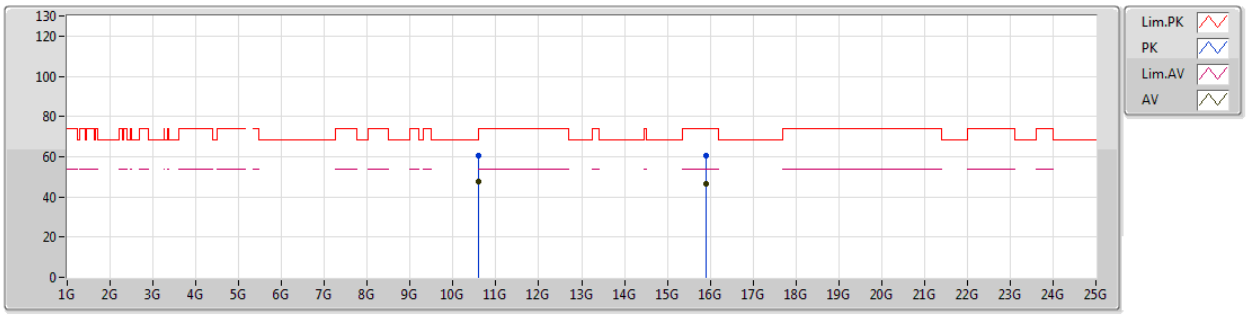
EUT Y_2TX
Setting 22.5
02-M-1-10
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.2984G	115.10	Inf	-Inf	8.82	3	Vertical	340	1.72
AV	5.3032G	105.08	Inf	-Inf	8.82	3	Vertical	340	1.72
PK	5.35G	69.33	74.00	-4.67	8.89	3	Vertical	340	1.72
AV	5.35G	53.91	54.00	-0.09	8.89	3	Vertical	340	1.72

802.11a_Nss1,(6Mbps)_2TX

5300MHz_TX

20/09/2018



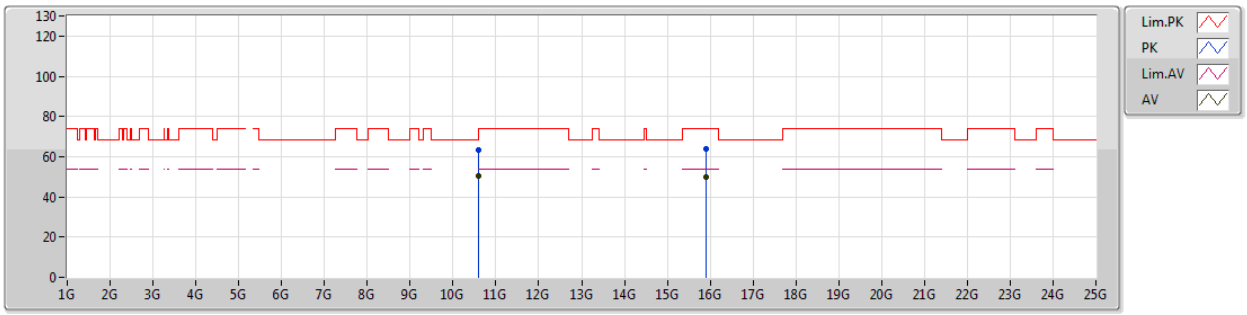
EUT Y_2TX
Setting 22.5
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.5981G	60.59	68.20	-7.61	14.41	3	Vertical	244	1.68
AV	10.6029G	47.61	54.00	-6.39	14.41	3	Vertical	244	1.68
PK	15.9003G	60.33	74.00	-13.67	15.15	3	Vertical	352	1.66
AV	15.8999G	46.39	54.00	-7.61	15.15	3	Vertical	352	1.66

802.11a_Nss1,(6Mbps)_2TX

5300MHz_TX

20/09/2018



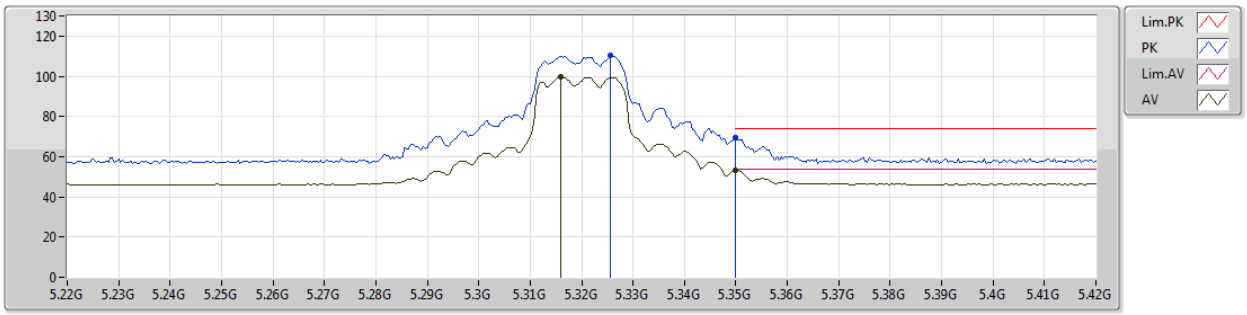
EUT Y_2TX
Setting 22.5
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.6023G	63.50	74.00	-10.50	14.41	3	Horizontal	242	2.02
AV	10.6019G	50.52	54.00	-3.48	14.41	3	Horizontal	242	2.02
PK	15.9003G	63.93	74.00	-10.07	15.15	3	Horizontal	269	1.68
AV	15.8999G	49.78	54.00	-4.22	15.15	3	Horizontal	269	1.68

802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX

20/09/2018



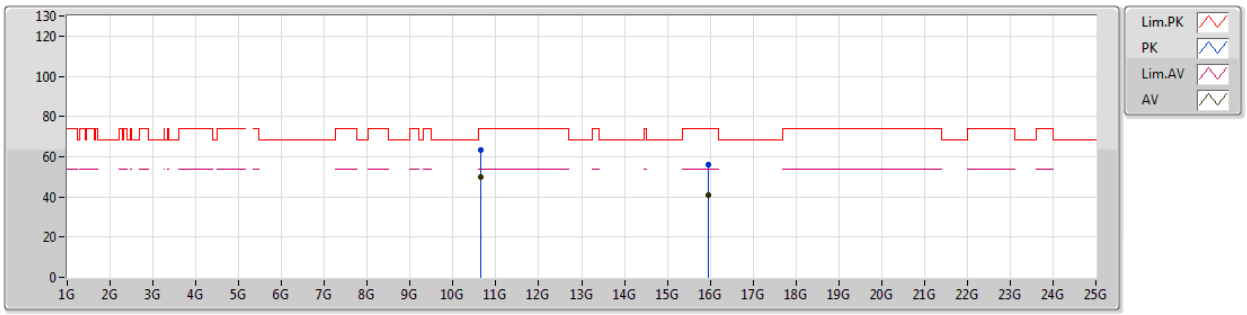
EUT Y_2TX
Setting 18.5
02-M-1-10
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.3256G	110.12	Inf	-Inf	8.86	3	Vertical	151	2.57
AV	5.316G	99.72	Inf	-Inf	8.84	3	Vertical	151	2.57
PK	5.35G	69.75	74.00	-4.25	8.89	3	Vertical	151	2.57
AV	5.35G	53.45	54.00	-0.55	8.89	3	Vertical	151	2.57

802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX

20/09/2018



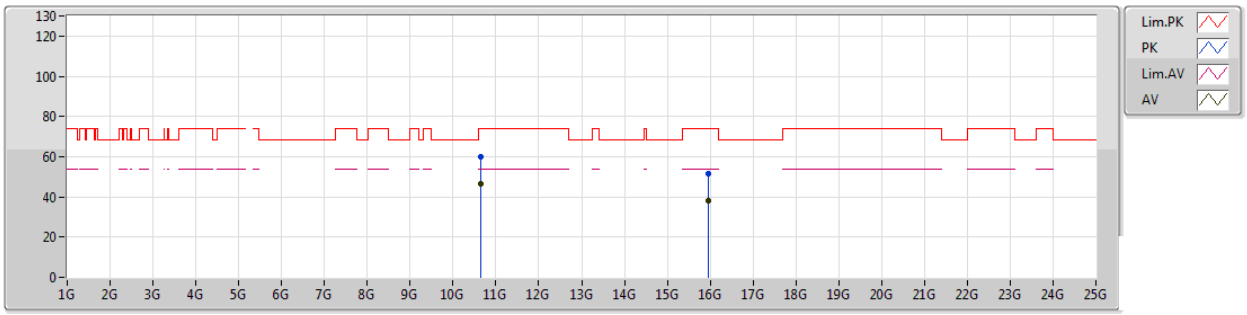
EUT Y_2TX
Setting 18.5
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.64236G	63.26	74.00	-10.74	14.38	3	Vertical	260	2.19
AV	10.64236G	50.11	54.00	-3.89	14.38	3	Vertical	260	2.19
PK	15.96608G	56.06	74.00	-17.94	14.98	3	Vertical	223	1.88
AV	15.96052G	41.00	54.00	-13.00	14.99	3	Vertical	223	1.88

802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX

20/09/2018



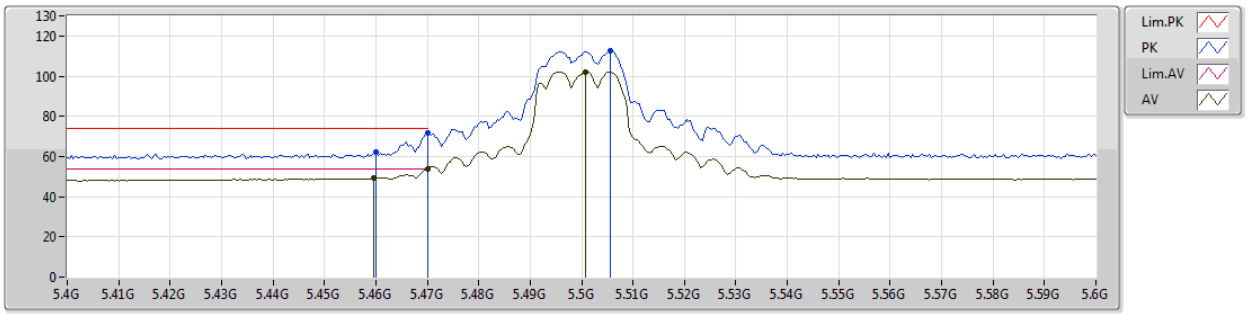
EUT Y_2TX
Setting 18.5
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.64192G	59.73	74.00	-14.27	14.38	3	Horizontal	193	2.67
AV	10.64228G	46.50	54.00	-7.50	14.38	3	Horizontal	193	2.67
PK	15.96892G	51.43	74.00	-22.57	14.98	3	Horizontal	73	2.29
AV	15.95452G	37.97	54.00	-16.03	15.01	3	Horizontal	73	2.29

802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX

28/09/2018



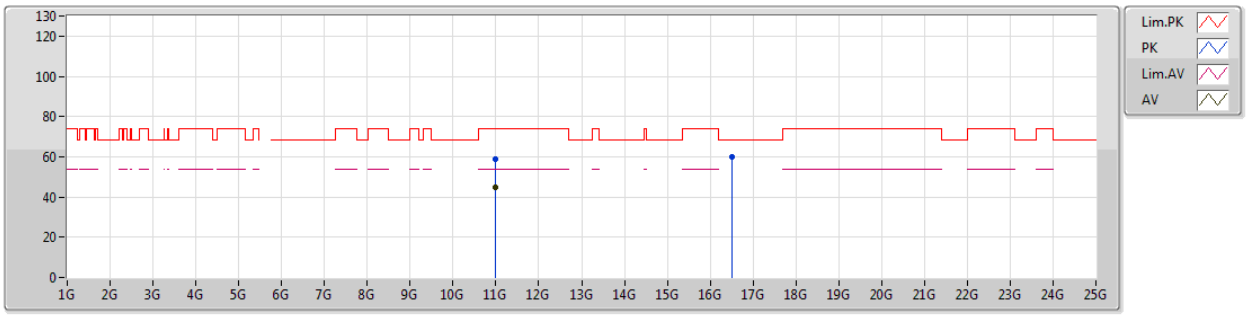
EUT Y_2TX
Setting 18
02-K-3-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.46G	62.05	74.00	-11.95	9.10	3	Vertical	186	1.46
AV	5.4596G	49.17	54.00	-4.83	9.10	3	Vertical	186	1.46
PK	5.47G	71.58	74.00	-2.42	9.12	3	Vertical	186	1.46
AV	5.47G	53.94	54.00	-0.06	9.12	3	Vertical	186	1.46
PK	5.5056G	112.88	Inf	-Inf	9.21	3	Vertical	186	1.46
AV	5.5008G	102.20	Inf	-Inf	9.20	3	Vertical	186	1.46

802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX

28/09/2018



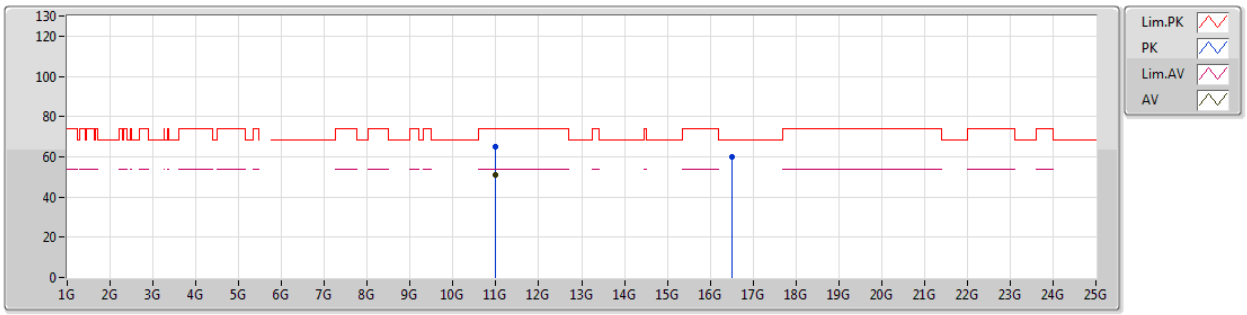
EUT Y_2TX
Setting 18
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.00062G	58.73	74.00	-15.27	14.09	3	Vertical	21	2.25
AV	11.00008G	45.05	54.00	-8.95	14.09	3	Vertical	21	2.25
PK	16.49708G	60.13	68.20	-8.07	16.99	3	Vertical	18	1.50

802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX

28/09/2018



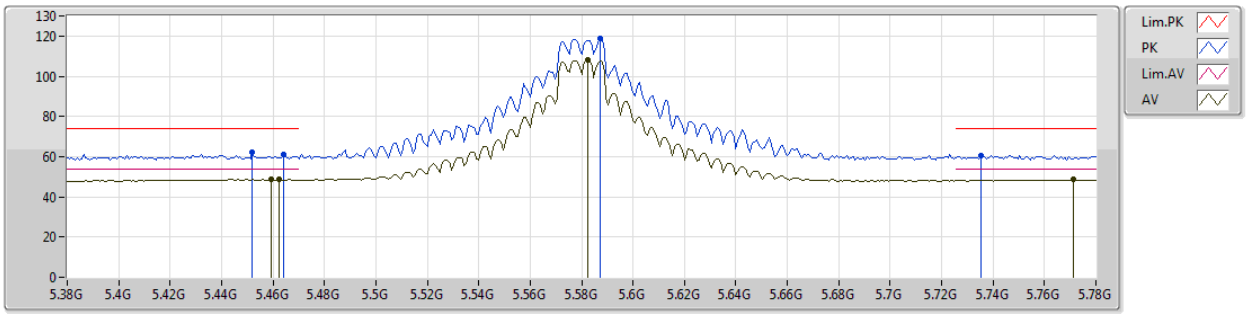
EUT Y_2TX
Setting 18
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.00066G	65.11	74.00	-8.89	14.09	3	Horizontal	307	2.96
AV	11.00028G	51.14	54.00	-2.86	14.09	3	Horizontal	307	2.96
PK	16.5036G	60.03	68.20	-8.17	17.01	3	Horizontal	12	1.27

802.11a_Nss1,(6Mbps)_2TX

5580MHz_TX

28/09/2018



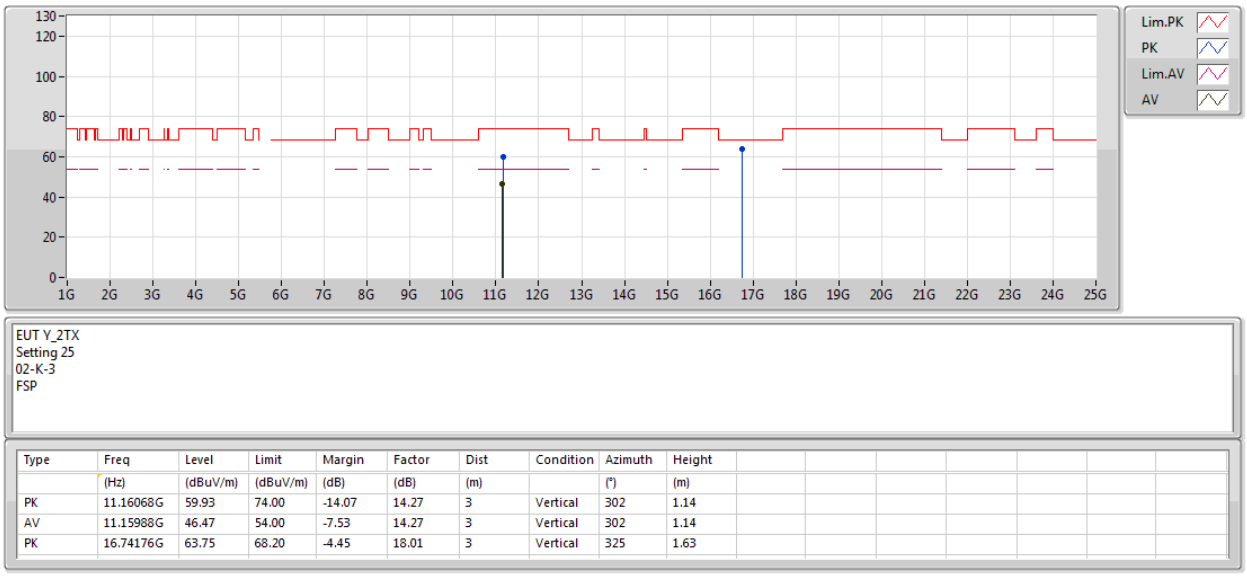
EUT Y_2TX
Setting 25
02-K-3-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.452G	62.12	74.00	-11.88	9.08	3	Vertical	192	1.01
AV	5.4592G	48.68	54.00	-5.32	9.10	3	Vertical	192	1.01
PK	5.464G	60.91	74.00	-13.09	9.10	3	Vertical	192	1.01
AV	5.4624G	48.51	54.00	-5.49	9.10	3	Vertical	192	1.01
PK	5.5872G	118.53	Inf	-Inf	9.27	3	Vertical	192	1.01
AV	5.5824G	107.93	Inf	-Inf	9.27	3	Vertical	192	1.01
PK	5.7352G	60.75	74.00	-13.25	9.32	3	Vertical	192	1.01
AV	5.7712G	48.86	54.00	-5.14	9.32	3	Vertical	192	1.01

802.11a_Nss1,(6Mbps)_2TX

5580MHz_TX

28/09/2018



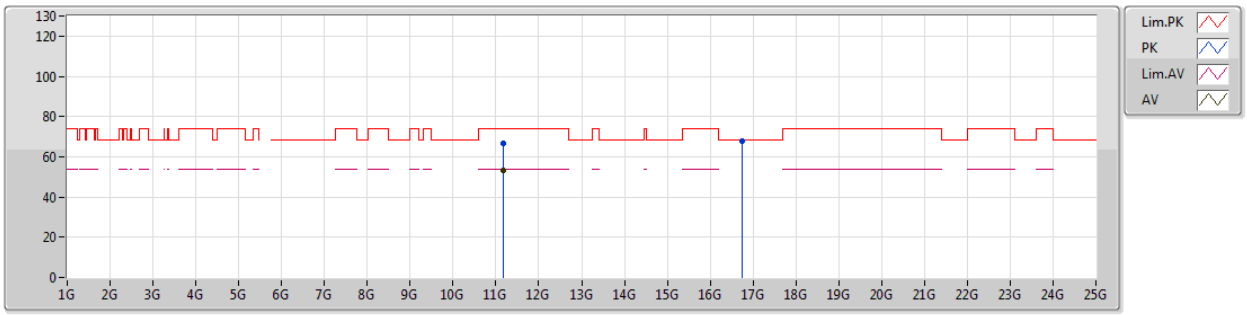
EUT Y_2TX
Setting 25
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.16068G	59.93	74.00	-14.07	14.27	3	Vertical	302	1.14
AV	11.15988G	46.47	54.00	-7.53	14.27	3	Vertical	302	1.14
PK	16.74176G	63.75	68.20	-4.45	18.01	3	Vertical	325	1.63

802.11a_Nss1,(6Mbps)_2TX

5580MHz_TX

28/09/2018



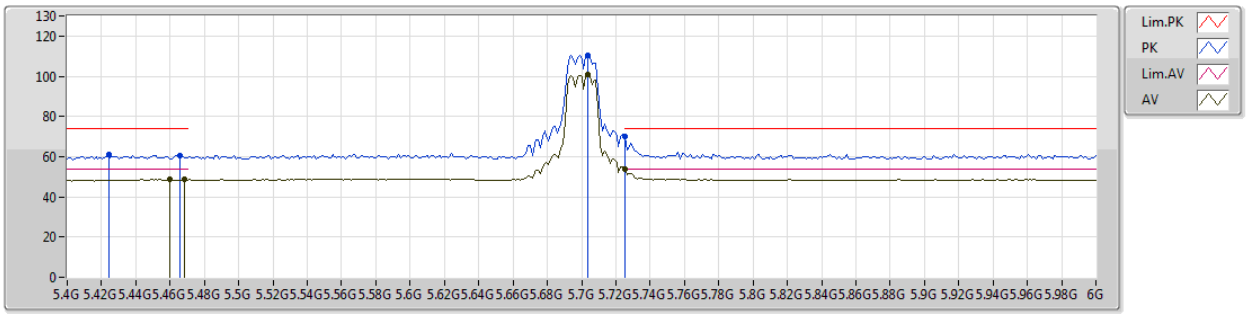
EUT Y_2TX
Setting 25
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.16062G	66.47	74.00	-7.53	14.27	3	Horizontal	303	2.85
AV	11.16G	53.50	54.00	-0.50	14.27	3	Horizontal	303	2.85
PK	16.73732G	67.82	68.20	-0.38	18.00	3	Horizontal	303	1.52

802.11a_Nss1,(6Mbps)_2TX

5700MHz_TX

28/09/2018



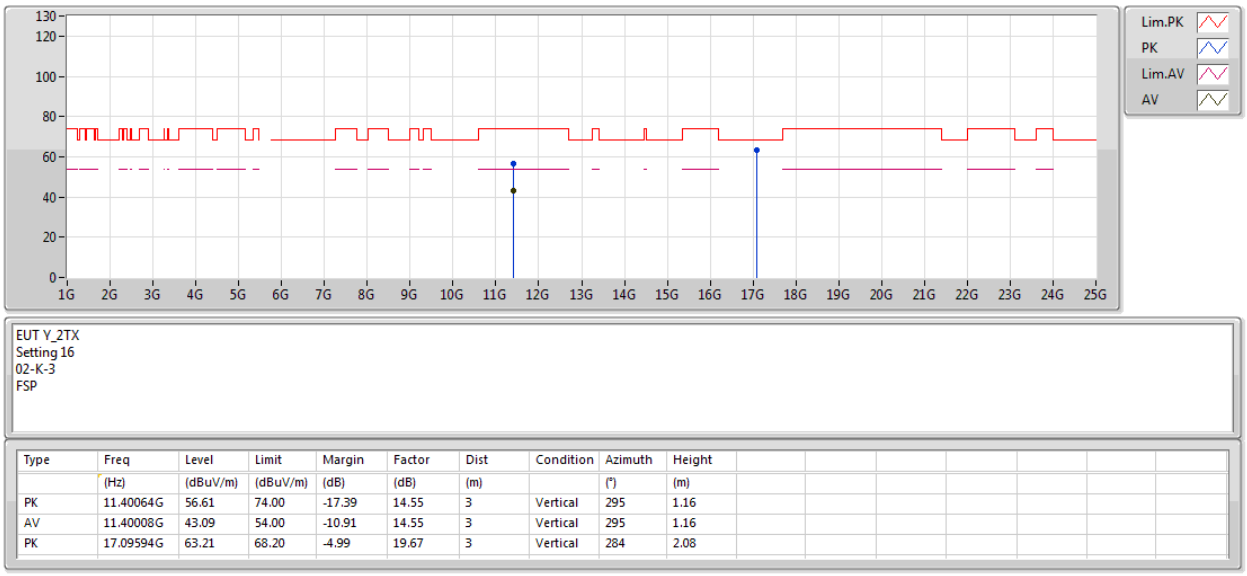
EUT Y_2TX
Setting 16
02-K-3-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.424G	60.85	74.00	-13.15	9.00	3	Vertical	253	1.03
AV	5.46G	48.61	54.00	-5.39	9.10	3	Vertical	253	1.03
PK	5.466G	60.38	74.00	-13.62	9.12	3	Vertical	253	1.03
AV	5.4684G	48.49	54.00	-5.51	9.12	3	Vertical	253	1.03
PK	5.7036G	110.43	Inf	-Inf	9.31	3	Vertical	253	1.03
AV	5.7036G	100.59	Inf	-Inf	9.31	3	Vertical	253	1.03
PK	5.7252G	69.84	74.00	-4.16	9.32	3	Vertical	253	1.03
AV	5.7252G	53.93	54.00	-0.07	9.32	3	Vertical	253	1.03

802.11a_Nss1,(6Mbps)_2TX

5700MHz_TX

28/09/2018



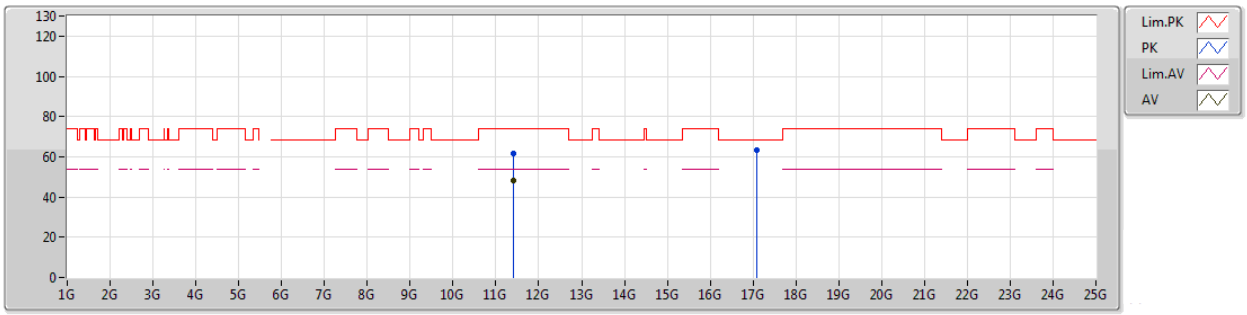
EUT Y_2TX
Setting 16
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.40064G	56.61	74.00	-17.39	14.55	3	Vertical	295	1.16
AV	11.40008G	43.09	54.00	-10.91	14.55	3	Vertical	295	1.16
PK	17.09594G	63.21	68.20	-4.99	19.67	3	Vertical	284	2.08

802.11a_Nss1,(6Mbps)_2TX

5700MHz_TX

28/09/2018



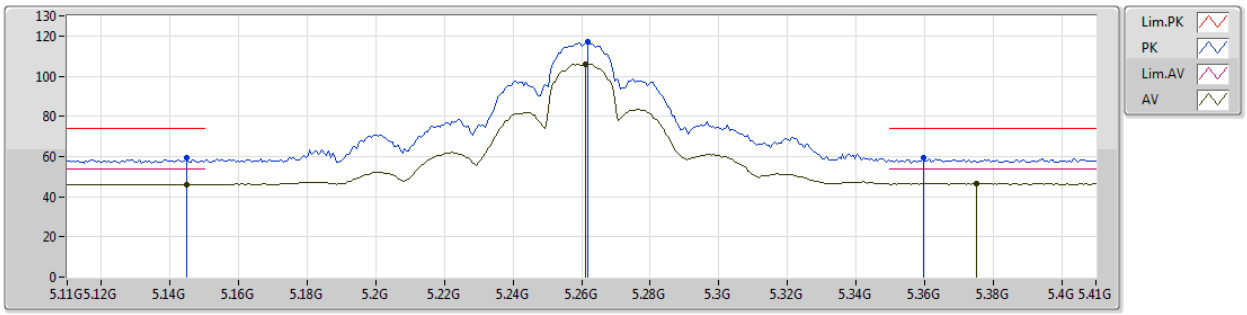
EUT Y_2TX
Setting 16
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.40068G	61.81	74.00	-12.19	14.55	3	Horizontal	297	2.84
AV	11.40022G	48.26	54.00	-5.74	14.55	3	Horizontal	297	2.84
PK	17.09994G	63.27	68.20	-4.93	19.69	3	Horizontal	103	2.23

802.11ac VHT20_Nss1,(MCS0)_2TX

5260MHz_TX

21/09/2018



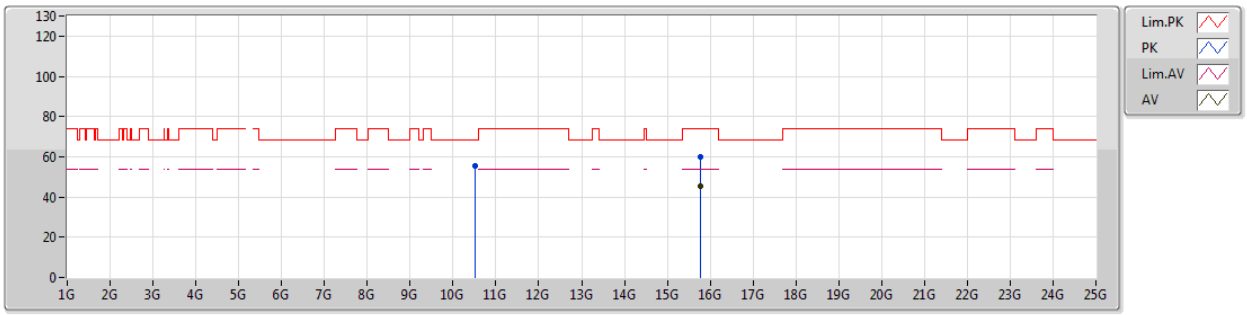
EUT Y_2TX
Setting 22.5
02-M-1-10
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.1448G	59.32	74.00	-14.68	8.56	3	Vertical	296	2.23
AV	5.1448G	46.17	54.00	-7.83	8.56	3	Vertical	296	2.23
PK	5.2618G	116.98	Inf	-Inf	8.76	3	Vertical	296	2.23
AV	5.2612G	106.01	Inf	-Inf	8.76	3	Vertical	296	2.23
PK	5.3596G	59.16	74.00	-14.84	8.90	3	Vertical	296	2.23
AV	5.3752G	46.60	54.00	-7.40	8.92	3	Vertical	296	2.23

802.11ac VHT20_Nss1,(MCS0)_2TX

5260MHz_TX

20/09/2018



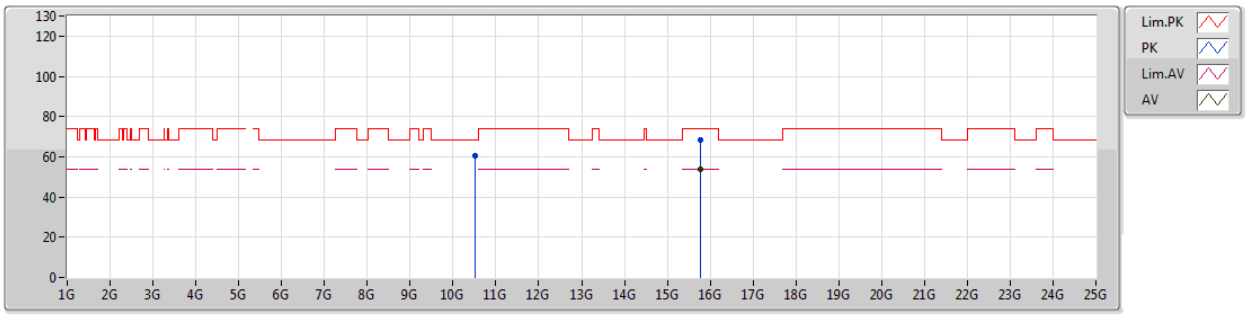
EUT Y_2TX
Setting 22.5
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.5262G	55.61	68.20	-12.59	14.47	3	Vertical	0	1.50
PK	15.7779G	60.15	74.00	-13.85	15.45	3	Vertical	319	1.47
AV	15.7782G	45.65	54.00	-8.35	15.45	3	Vertical	319	1.47

802.11ac VHT20_Nss1,(MCS0)_2TX

5260MHz_TX

20/09/2018



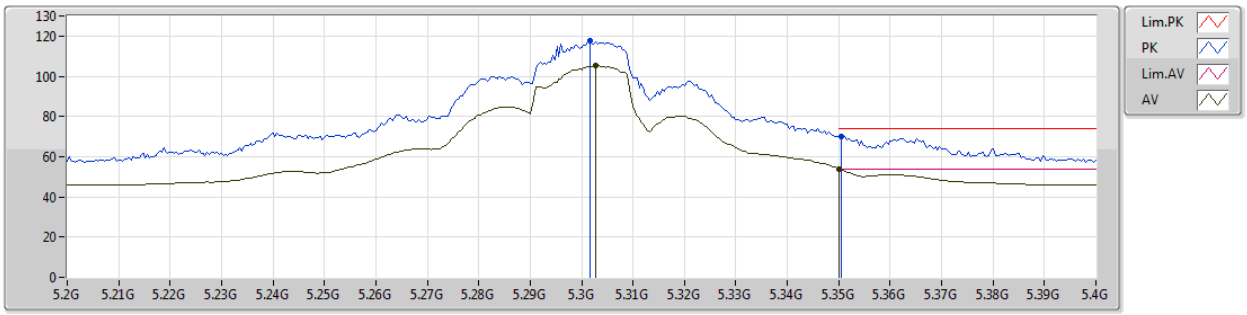
EUT Y_2TX
Setting 22.5
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.5192G	60.37	68.20	-7.83	14.48	3	Horizontal	259	1.49
PK	15.7809G	68.11	74.00	-5.89	15.44	3	Horizontal	249	1.33
AV	15.7805G	53.85	54.00	-0.15	15.44	3	Horizontal	249	1.33

802.11ac VHT20_Nss1,(MCS0)_2TX

5300MHz_TX

21/09/2018



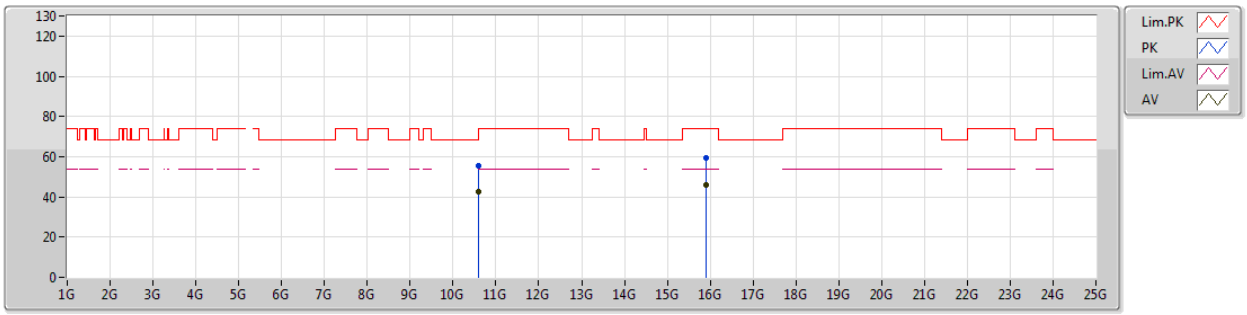
EUT Y_2TX
Setting 23
02-M-1-10
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.3016G	117.45	Inf	-Inf	8.82	3	Vertical	296	2.16
AV	5.3028G	105.19	Inf	-Inf	8.82	3	Vertical	296	2.16
PK	5.3504G	70.32	74.00	-3.68	8.89	3	Vertical	296	2.16
AV	5.35G	53.95	54.00	-0.05	8.89	3	Vertical	296	2.16

802.11ac VHT20_Nss1,(MCS0)_2TX

5300MHz_TX

21/09/2018



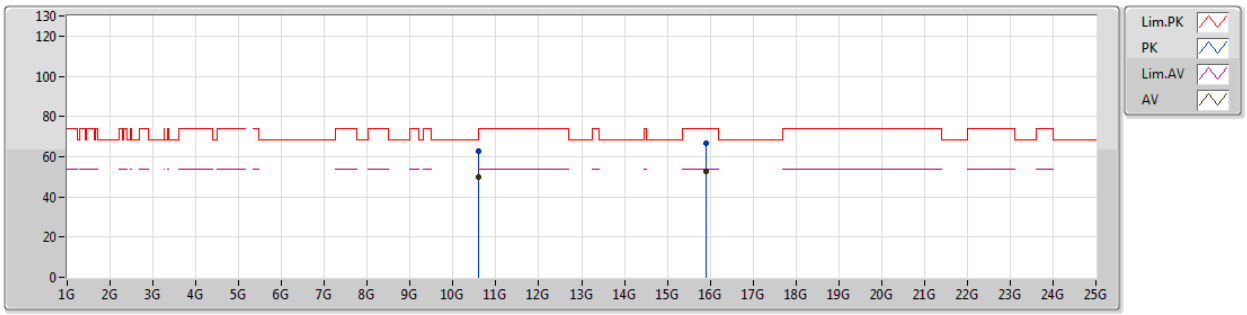
EUT Y_2TX
Setting 23
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.6009G	55.73	74.00	-18.27	14.41	3	Vertical	295	1.46
AV	10.6007G	42.51	54.00	-11.49	14.41	3	Vertical	295	1.46
PK	15.9011G	59.16	74.00	-14.84	15.15	3	Vertical	292	1.60
AV	15.9006G	45.71	54.00	-8.29	15.15	3	Vertical	292	1.60

802.11ac VHT20_Nss1,(MCS0)_2TX

5300MHz_TX

21/09/2018



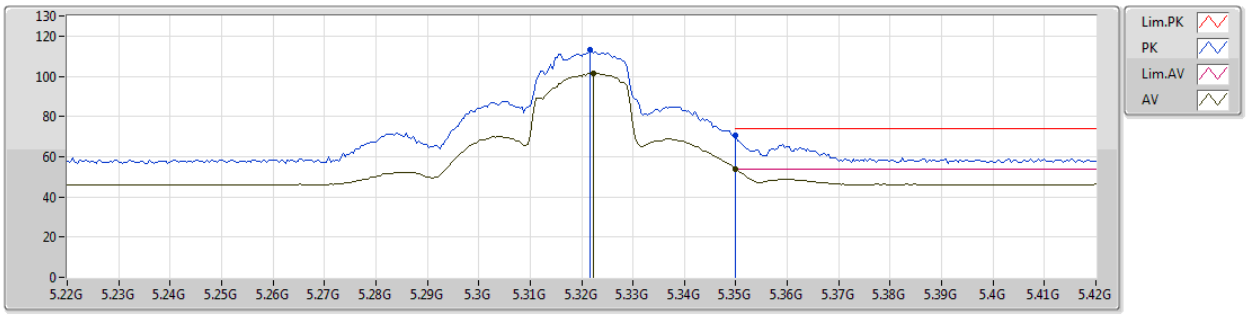
EUT Y_2TX
Setting 23
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.60023G	62.92	74.00	-11.08	14.41	3	Horizontal	265	1.75
AV	10.60027G	49.73	54.00	-4.27	14.41	3	Horizontal	265	1.75
PK	15.90088G	66.49	74.00	-7.51	15.15	3	Horizontal	267	1.67
AV	15.90064G	52.90	54.00	-1.10	15.15	3	Horizontal	267	1.67

802.11ac VHT20_Nss1,(MCS0)_2TX

5320MHz_TX

21/09/2018



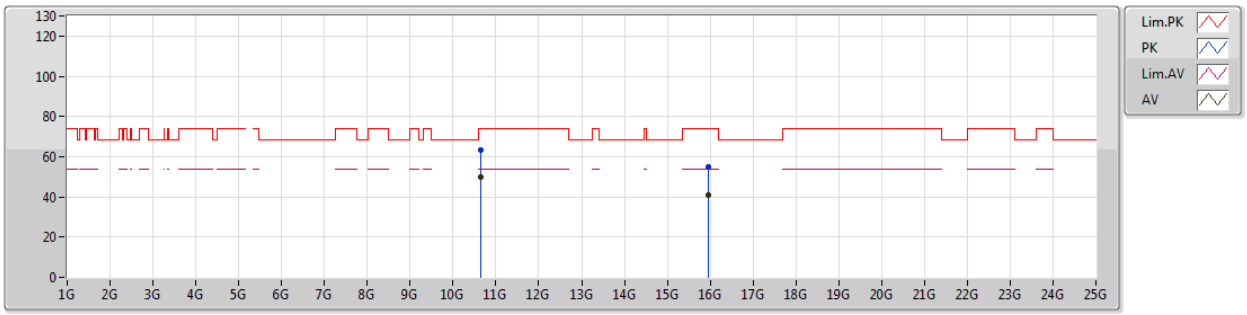
EUT Y_2TX
Setting 20
02-M-1-10
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.3216G	112.98	Inf	-Inf	8.84	3	Vertical	54	2.19
AV	5.3224G	101.52	Inf	-Inf	8.84	3	Vertical	54	2.19
PK	5.35G	70.45	74.00	-3.55	8.89	3	Vertical	54	2.19
AV	5.35G	53.77	54.00	-0.23	8.89	3	Vertical	54	2.19

802.11ac VHT20_Nss1,(MCS0)_2TX

5320MHz_TX

21/09/2018



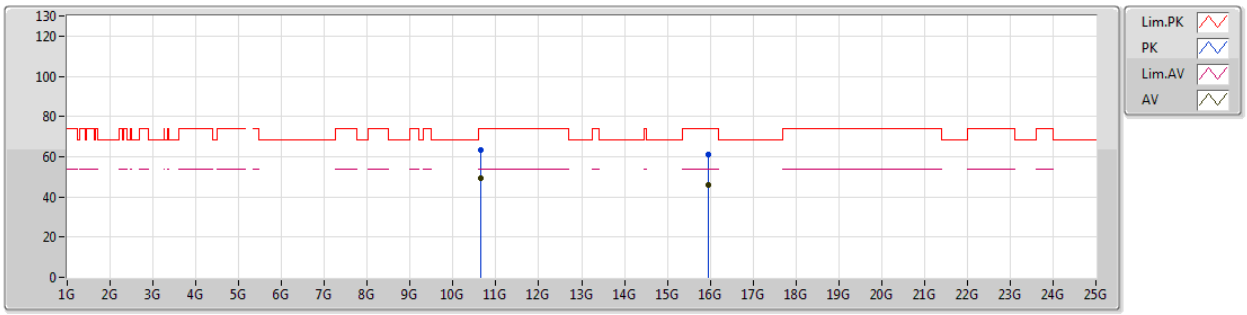
EUT Y_2TX
Setting 20
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.6493G	63.51	74.00	-10.49	14.37	3	Vertical	246	1.33
AV	10.6487G	49.94	54.00	-4.06	14.37	3	Vertical	246	1.33
PK	15.9614G	55.13	74.00	-18.87	15.00	3	Vertical	284	1.53
AV	15.9608G	40.97	54.00	-13.03	15.00	3	Vertical	284	1.53

802.11ac VHT20_Nss1,(MCS0)_2TX

5320MHz_TX

21/09/2018



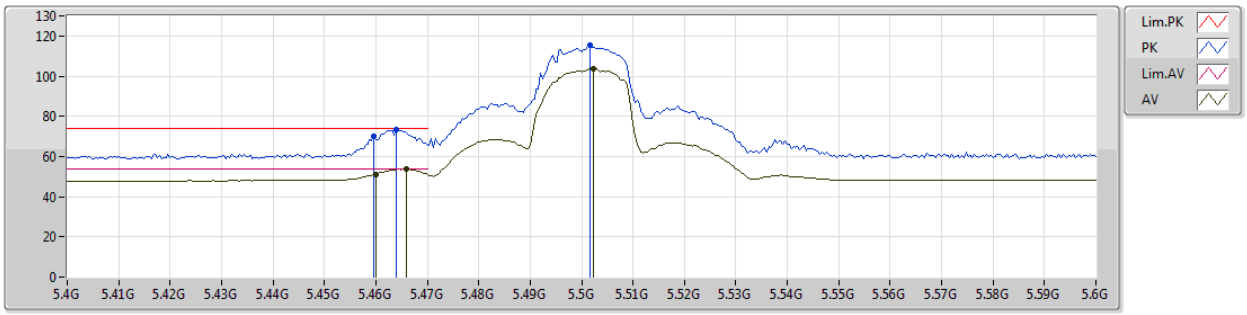
EUT Y_2TX
Setting 20
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.6494G	63.18	74.00	-10.82	14.37	3	Horizontal	278	1.36
AV	10.6483G	49.42	54.00	-4.58	14.37	3	Horizontal	278	1.36
PK	15.9612G	61.17	74.00	-12.83	15.00	3	Horizontal	262	1.65
AV	15.9631G	46.11	54.00	-7.89	14.99	3	Horizontal	262	1.65

802.11ac VHT20_Nss1,(MCS0)_2TX

5500MHz_TX

28/09/2018



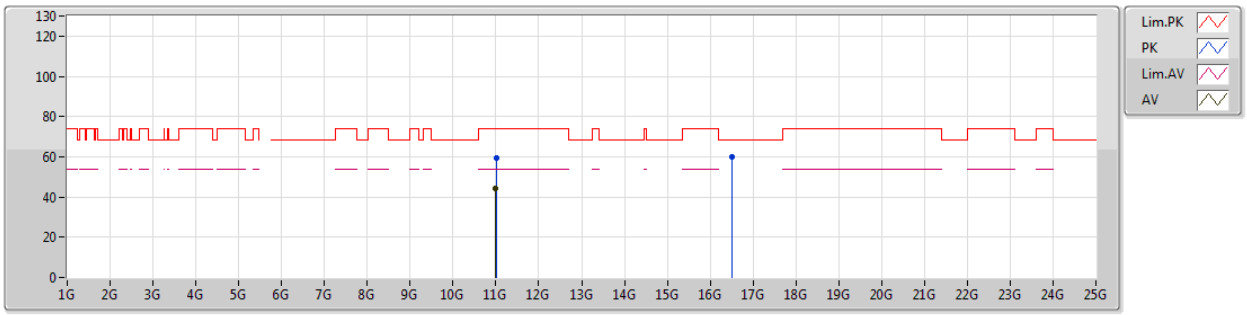
EUT Y_2TX
Setting 19.5
02-K-3-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.4596G	70.28	74.00	-3.72	9.10	3	Vertical	190	2.52
AV	5.46G	51.02	54.00	-2.98	9.10	3	Vertical	190	2.52
PK	5.464G	73.19	74.00	-0.81	9.10	3	Vertical	190	2.52
AV	5.466G	53.91	54.00	-0.09	9.12	3	Vertical	190	2.52
PK	5.5016G	115.33	Inf	-Inf	9.20	3	Vertical	190	2.52
AV	5.5024G	103.57	Inf	-Inf	9.20	3	Vertical	190	2.52

802.11ac VHT20_Nss1,(MCS0)_2TX

5500MHz_TX

28/09/2018



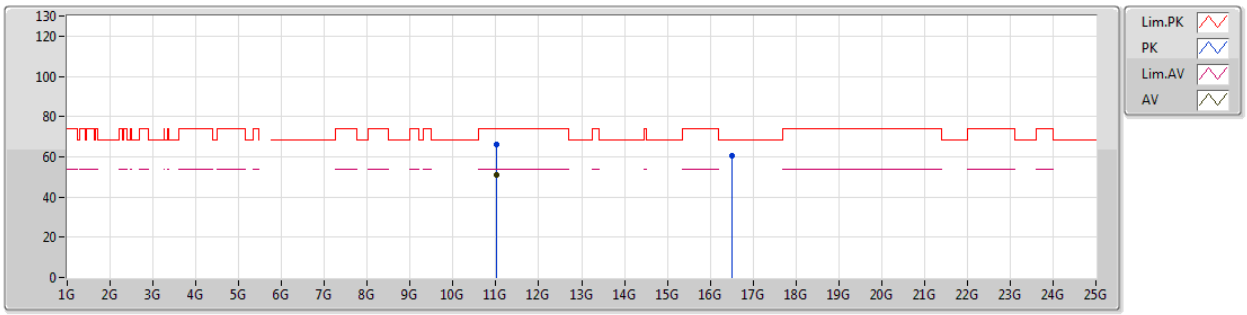
EUT Y_2TX
Setting 19.5
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.00256G	59.12	74.00	-14.88	14.09	3	Vertical	18	2.22
AV	11.00008G	44.40	54.00	-9.60	14.09	3	Vertical	18	2.22
PK	16.49794G	60.13	68.20	-8.07	16.99	3	Vertical	7	2.36

802.11ac VHT20_Nss1,(MCS0)_2TX

5500MHz_TX

28/09/2018



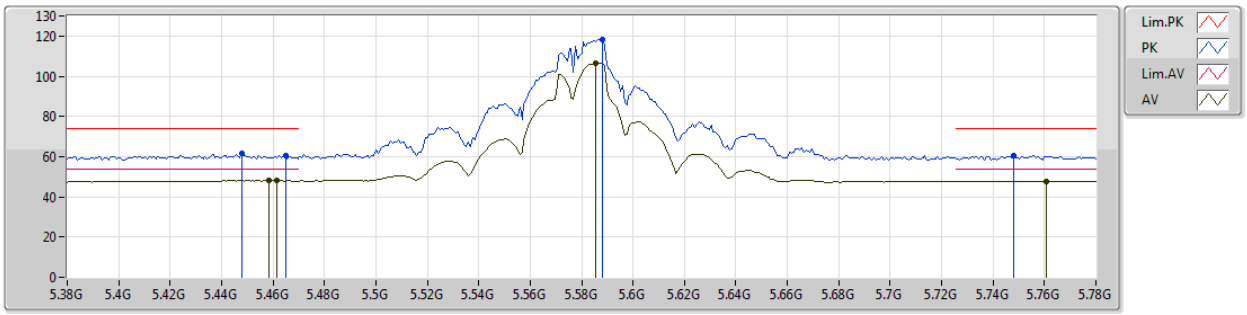
EUT Y_2TX
Setting 19.5
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.00262G	66.17	74.00	-7.83	14.09	3	Horizontal	318	2.94
AV	11.00328G	50.86	54.00	-3.14	14.09	3	Horizontal	318	2.94
PK	16.5042G	60.76	68.20	-7.44	17.02	3	Horizontal	338	1.50

802.11ac VHT20_Nss1,(MCS0)_2TX

5580MHz_TX

28/09/2018



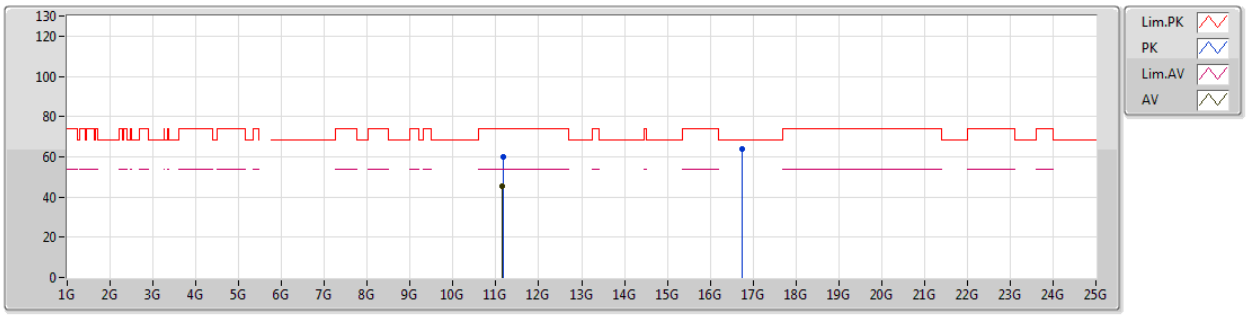
EUT Y_2TX
Setting 25
02-K-3-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.448G	61.72	74.00	-12.28	9.07	3	Vertical	183	1.78
AV	5.4584G	48.02	54.00	-5.98	9.10	3	Vertical	183	1.78
PK	5.4648G	60.49	74.00	-13.51	9.10	3	Vertical	183	1.78
AV	5.4616G	47.94	54.00	-6.06	9.10	3	Vertical	183	1.78
PK	5.588G	118.27	Inf	-Inf	9.27	3	Vertical	183	1.78
AV	5.5856G	106.70	Inf	-Inf	9.27	3	Vertical	183	1.78
PK	5.748G	60.68	74.00	-13.32	9.32	3	Vertical	183	1.78
AV	5.7608G	47.77	54.00	-6.23	9.32	3	Vertical	183	1.78

802.11ac VHT20_Nss1,(MCS0)_2TX

5580MHz_TX

28/09/2018



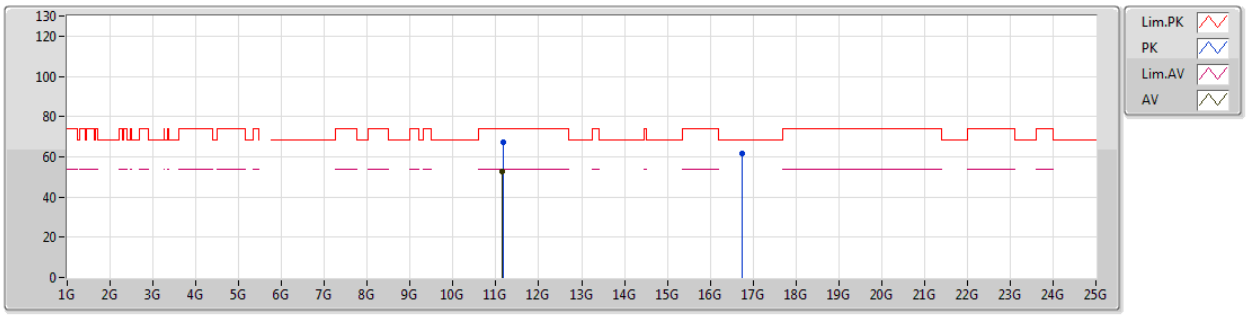
EUT Y_2TX
Setting 25
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.16266G	60.10	74.00	-13.90	14.28	3	Vertical	295	1.36
AV	11.15906G	45.15	54.00	-8.85	14.27	3	Vertical	295	1.36
PK	16.74374G	63.89	68.20	-4.31	18.02	3	Vertical	329	1.79

802.11ac VHT20_Nss1,(MCS0)_2TX

5580MHz_TX

28/09/2018



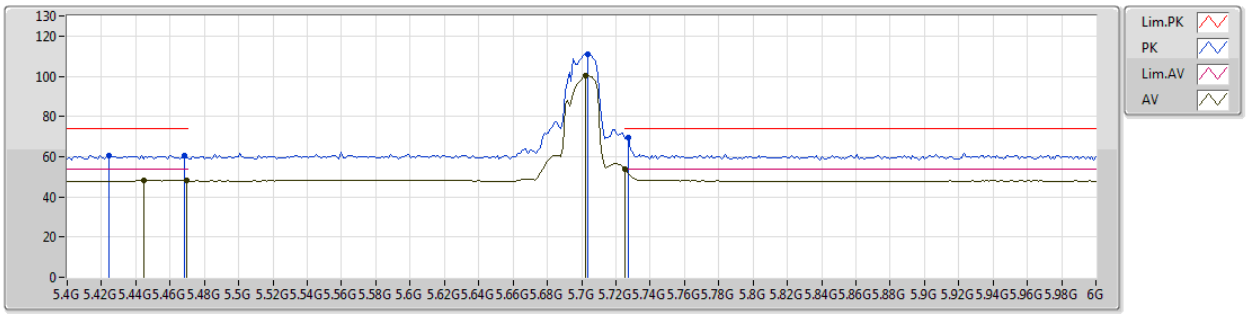
EUT Y_2TX
Setting 25
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.16264G	67.13	74.00	-6.87	14.28	3	Horizontal	304	2.89
AV	11.15912G	52.48	54.00	-1.52	14.27	3	Horizontal	304	2.89
PK	16.7357G	61.46	68.20	-6.74	17.99	3	Horizontal	28	1.50

802.11ac VHT20_Nss1,(MCS0)_2TX

5700MHz_TX

28/09/2018



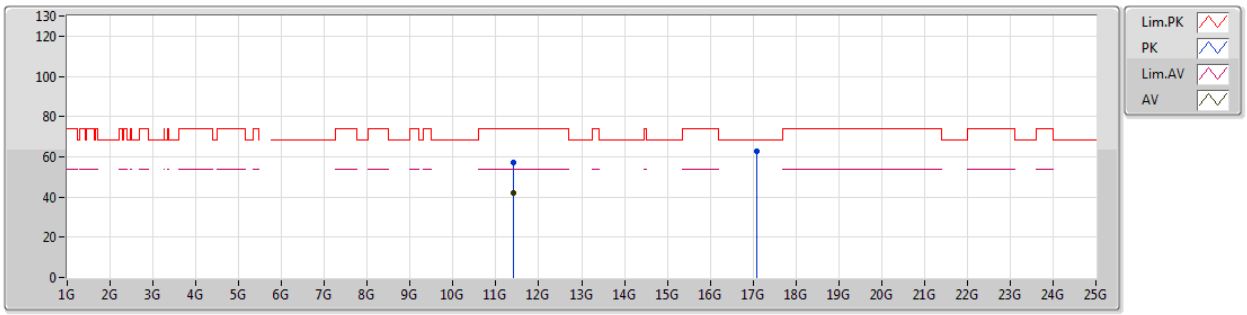
EUT Y_2TX
Setting 16.5
02-K-3-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.424G	60.57	74.00	-13.43	9.00	3	Vertical	183	2.48
AV	5.4444G	48.00	54.00	-6.00	9.06	3	Vertical	183	2.48
PK	5.4684G	60.57	74.00	-13.43	9.12	3	Vertical	183	2.48
AV	5.4696G	48.04	54.00	-5.96	9.12	3	Vertical	183	2.48
PK	5.7036G	110.98	Inf	-Inf	9.31	3	Vertical	183	2.48
AV	5.7024G	100.21	Inf	-Inf	9.31	3	Vertical	183	2.48
PK	5.7276G	69.21	74.00	-4.79	9.32	3	Vertical	183	2.48
AV	5.7252G	53.89	54.00	-0.11	9.32	3	Vertical	183	2.48

802.11ac VHT20_Nss1,(MCS0)_2TX

5700MHz_TX

28/09/2018



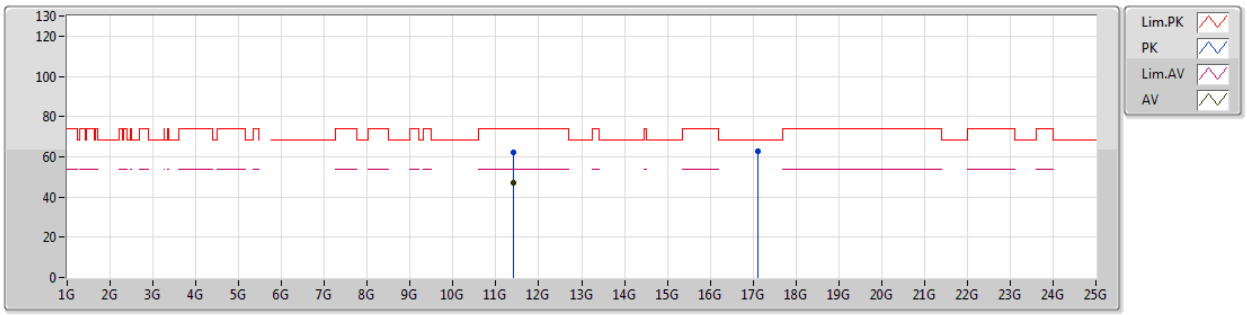
EUT Y_2TX
Setting 16.5
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.399G	57.16	74.00	-16.84	14.55	3	Vertical	345	1.91
AV	11.3997G	41.78	54.00	-12.22	14.55	3	Vertical	345	1.91
PK	17.09658G	62.73	68.20	-5.47	19.67	3	Vertical	324	1.37

802.11ac VHT20_Nss1,(MCS0)_2TX

5700MHz_TX

28/09/2018



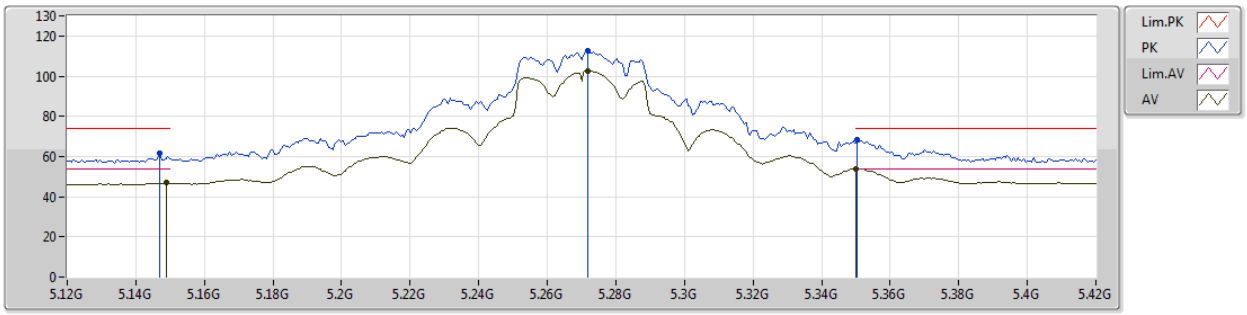
EUT Y_2TX
Setting 16.5
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.40264G	62.39	74.00	-11.61	14.55	3	Horizontal	301	2.82
AV	11.3999G	47.25	54.00	-6.75	14.55	3	Horizontal	301	2.82
PK	17.1028G	62.99	68.20	-5.21	19.71	3	Horizontal	182	1.66

802.11ac VHT40_Nss1,(MCS0)_2TX

5270MHz_TX

21/09/2018



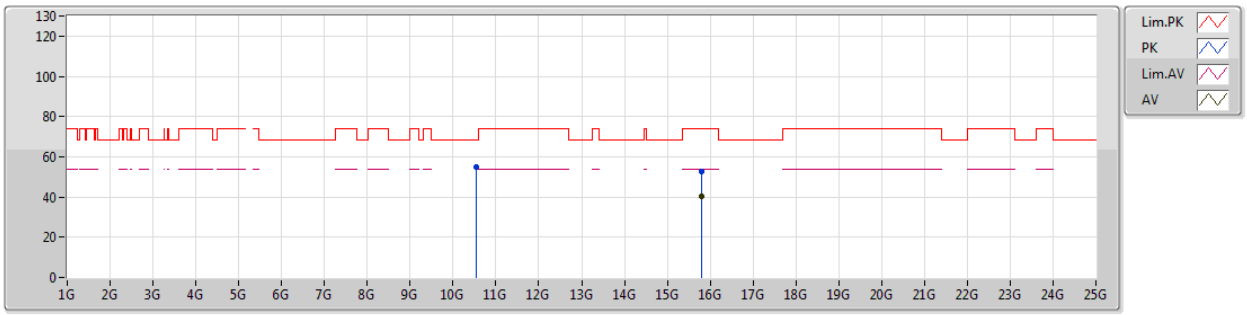
EUT Y_2TX
Setting 20.5
02-M-1-10
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.147G	61.82	74.00	-12.18	8.56	3	Vertical	308	2.19
AV	5.1488G	46.83	54.00	-7.17	8.56	3	Vertical	308	2.19
PK	5.2718G	112.46	Inf	-Inf	8.78	3	Vertical	308	2.19
AV	5.2718G	102.70	Inf	-Inf	8.78	3	Vertical	308	2.19
PK	5.3504G	68.11	74.00	-5.89	8.89	3	Vertical	308	2.19
AV	5.35G	53.84	54.00	-0.16	8.89	3	Vertical	308	2.19

802.11ac VHT40_Nss1,(MCS0)_2TX

5270MHz_TX

21/09/2018



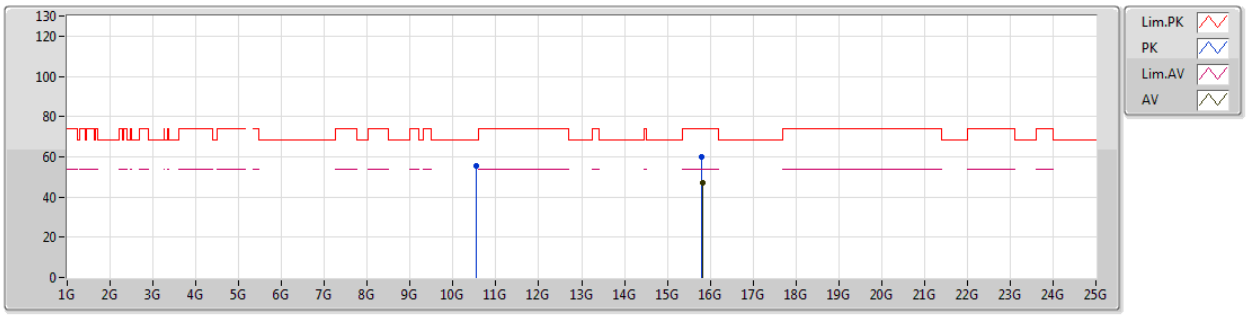
EUT Y_2TX
Setting 20.5
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.5479G	54.79	68.20	-13.41	14.46	3	Vertical	319	1.50
PK	15.8086G	52.87	74.00	-21.13	15.38	3	Vertical	275	1.49
AV	15.8083G	40.13	54.00	-13.87	15.38	3	Vertical	275	1.49

802.11ac VHT40_Nss1,(MCS0)_2TX

5270MHz_TX

21/09/2018



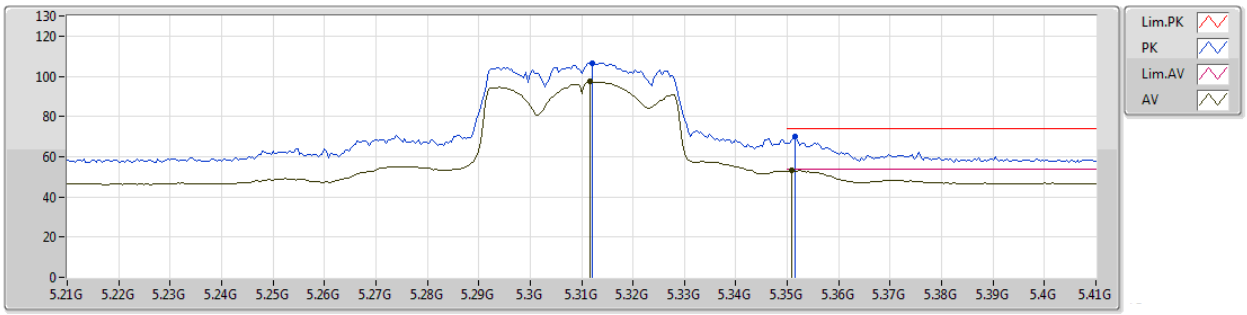
EUT Y_2TX
Setting 20.5
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.5522G	55.20	68.20	-13.00	14.45	3	Horizontal	311	1.66
PK	15.7917G	59.79	74.00	-14.21	15.41	3	Horizontal	250	1.72
AV	15.8132G	47.13	54.00	-6.87	15.36	3	Horizontal	250	1.72

802.11ac VHT40_Nss1,(MCS0)_2TX

5310MHz_TX

21/09/2018



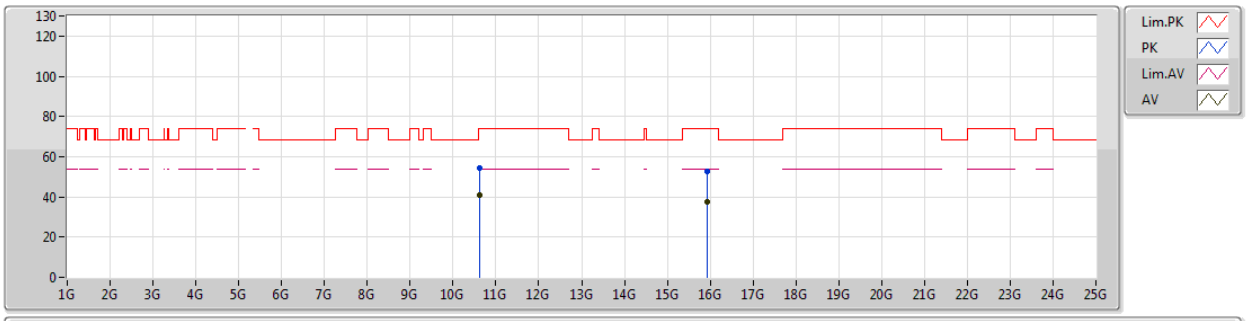
EUT Y_2TX
Setting 16
02-M-1-10
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.312G	106.55	Inf	-Inf	8.83	3	Vertical	309	2.00
AV	5.3116G	97.28	Inf	-Inf	8.83	3	Vertical	309	2.00
PK	5.3516G	69.85	74.00	-4.15	8.89	3	Vertical	309	2.00
AV	5.3508G	53.09	54.00	-0.91	8.89	3	Vertical	309	2.00

802.11ac VHT40_Nss1,(MCS0)_2TX

5310MHz_TX

21/09/2018



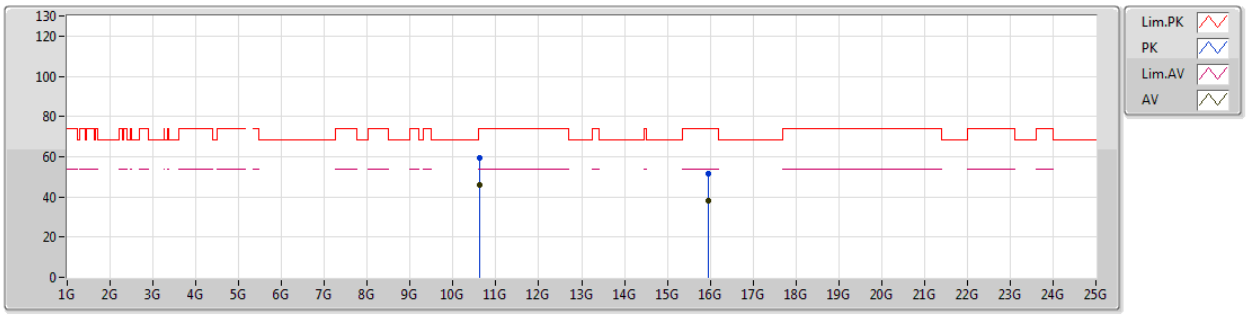
EUT Y_2TX
Setting 16
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.6273G	54.43	74.00	-19.57	14.38	3	Vertical	335	1.50
AV	10.6278G	40.88	54.00	-13.12	14.38	3	Vertical	335	1.50
PK	15.92762G	52.53	74.00	-21.47	15.07	3	Vertical	263	1.39
AV	15.9322G	37.31	54.00	-16.69	15.06	3	Vertical	263	1.39

802.11ac VHT40_Nss1,(MCS0)_2TX

5310MHz_TX

21/09/2018



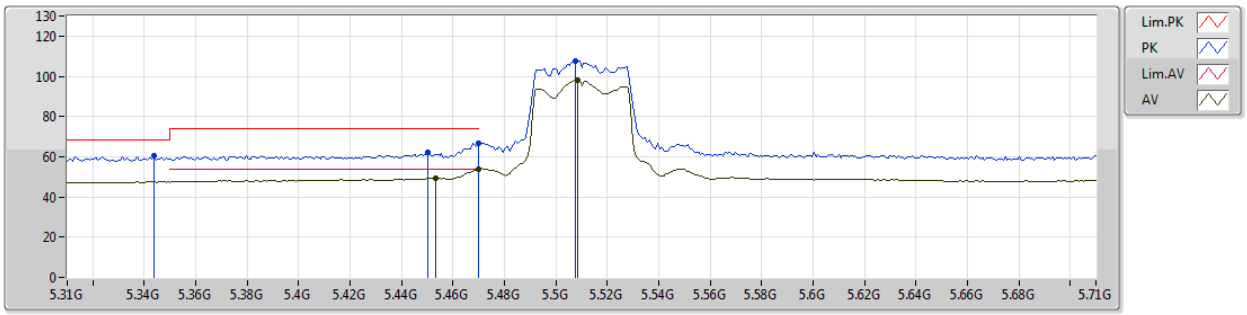
EUT Y_2TX
Setting 16
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.6247G	59.54	74.00	-14.46	14.40	3	Horizontal	235	1.34
AV	10.6279G	46.21	54.00	-7.79	14.38	3	Horizontal	235	1.34
PK	15.9484G	51.51	74.00	-22.49	15.02	3	Horizontal	94	1.50
AV	15.9539G	38.13	54.00	-15.87	15.01	3	Horizontal	94	1.50

802.11ac VHT40_Nss1,(MCS0)_2TX

5510MHz_TX

28/09/2018



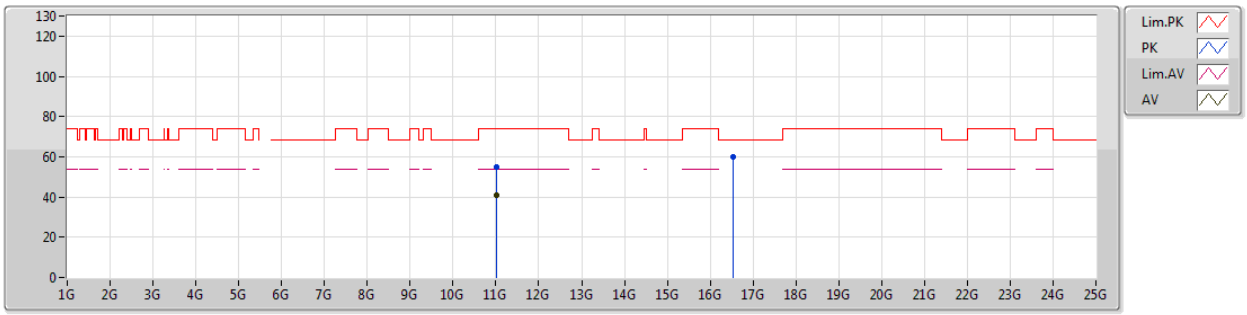
EUT Y_2TX
Setting 15
02-K-3-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.3436G	60.55	68.20	-7.65	8.88	3	Vertical	144	1.01
PK	5.45G	62.39	74.00	-11.61	9.08	3	Vertical	144	1.01
AV	5.4532G	49.50	54.00	-4.50	9.08	3	Vertical	144	1.01
PK	5.47G	66.80	74.00	-7.20	9.12	3	Vertical	144	1.01
AV	5.47G	53.76	54.00	-0.24	9.12	3	Vertical	144	1.01
PK	5.5076G	107.57	Inf	-Inf	9.21	3	Vertical	144	1.01
AV	5.5084G	98.06	Inf	-Inf	9.21	3	Vertical	144	1.01

802.11ac VHT40_Nss1,(MCS0)_2TX

5510MHz_TX

28/09/2018



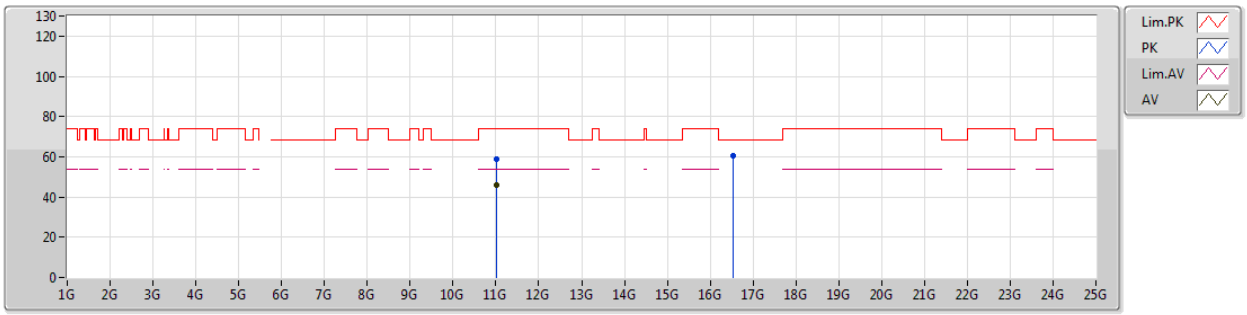
EUT Y_2TX
Setting 15
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.02G	54.77	74.00	-19.23	14.12	3	Vertical	25	2.13
AV	11.0197G	41.11	54.00	-12.89	14.12	3	Vertical	25	2.13
PK	16.53376G	60.10	68.20	-8.10	17.14	3	Vertical	289	1.01

802.11ac VHT40_Nss1,(MCS0)_2TX

5510MHz_TX

28/09/2018



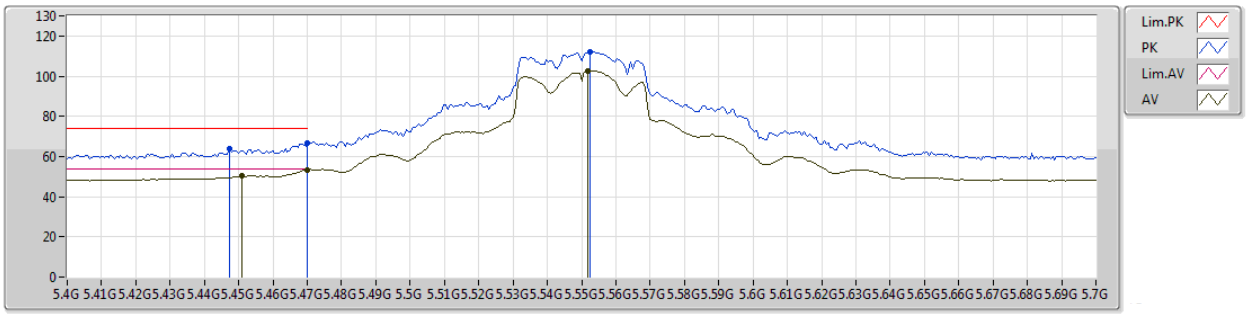
EUT Y_2TX
Setting 15
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.02018G	58.71	74.00	-15.29	14.12	3	Horizontal	128	2.17
AV	11.01988G	45.73	54.00	-8.27	14.12	3	Horizontal	358	2.27
PK	16.5253G	60.33	68.20	-7.87	17.10	3	Horizontal	255	1.68

802.11ac VHT40_Nss1,(MCS0)_2TX

5550MHz_TX

28/09/2018



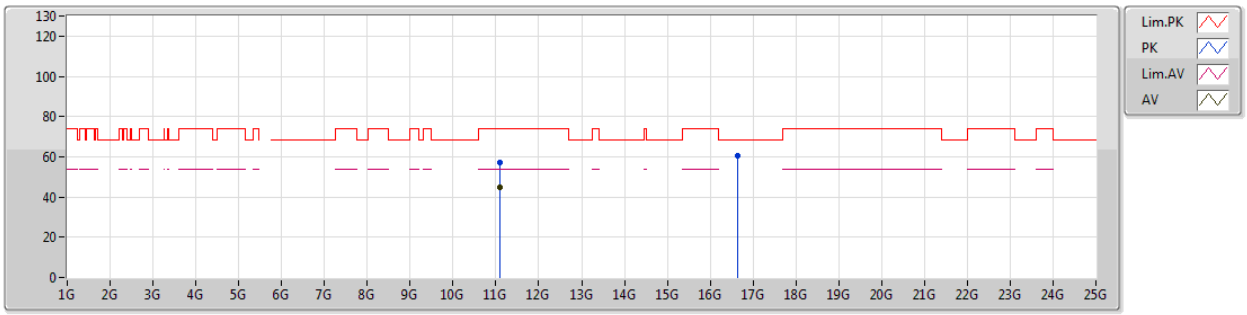
EUT Y_2TX
Setting 20.5
02-K-3-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.4474G	63.69	74.00	-10.31	9.07	3	Vertical	181	1.53
AV	5.451G	50.36	54.00	-3.64	9.08	3	Vertical	181	1.53
PK	5.47G	66.65	74.00	-7.35	9.12	3	Vertical	181	1.53
AV	5.47G	53.32	54.00	-0.68	9.12	3	Vertical	181	1.53
PK	5.5524G	112.24	Inf	-Inf	9.24	3	Vertical	181	1.53
AV	5.5518G	102.60	Inf	-Inf	9.24	3	Vertical	181	1.53

802.11ac VHT40_Nss1,(MCS0)_2TX

5550MHz_TX

28/09/2018



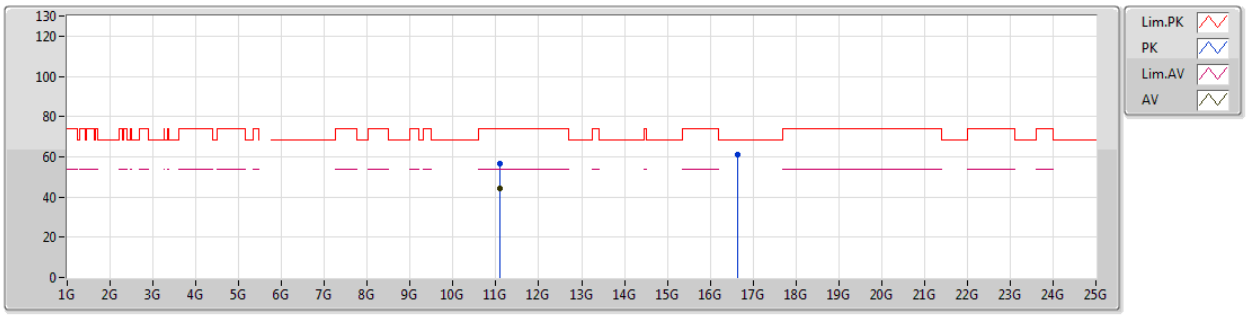
EUT Y_2TX
Setting 20.5
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.10284G	56.92	74.00	-17.08	14.21	3	Vertical	305	1.29
AV	11.1G	44.55	54.00	-9.45	14.21	3	Vertical	305	1.29
PK	16.64864G	60.69	68.20	-7.51	17.62	3	Vertical	24	2.98

802.11ac VHT40_Nss1,(MCS0)_2TX

5550MHz_TX

28/09/2018



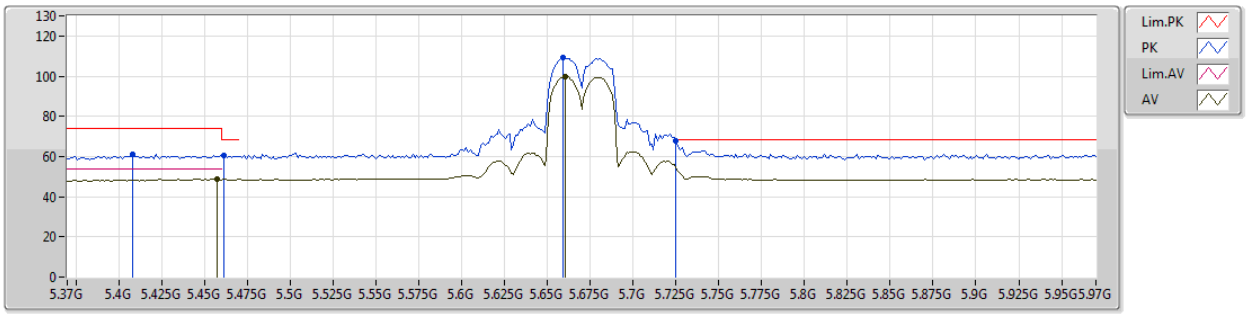
EUT Y_2TX
Setting 20.5
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.09928G	56.60	74.00	-17.40	14.21	3	Horizontal	354	1.95
AV	11.10004G	44.19	54.00	-9.81	14.21	3	Horizontal	354	1.95
PK	16.64642G	61.00	68.20	-7.20	17.61	3	Horizontal	209	1.70

802.11ac VHT40_Nss1,(MCS0)_2TX

5670MHz_TX

29/09/2018



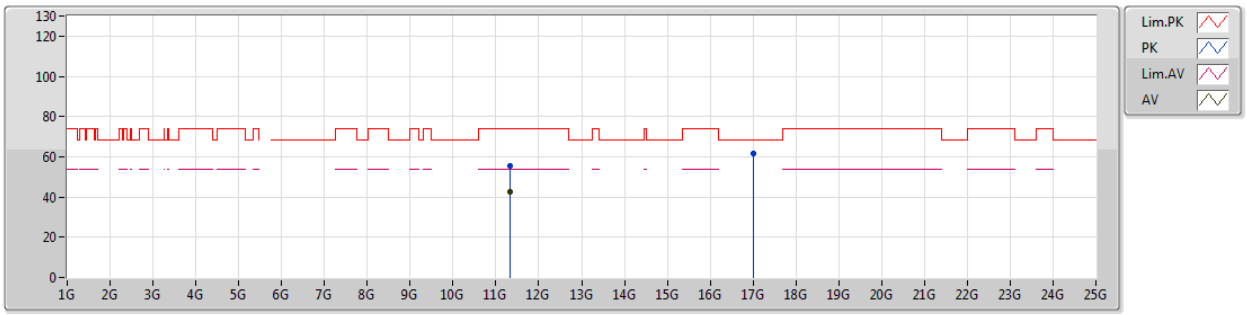
EUT Y_2TX
Setting 17.5
02-K-3-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.4084G	60.96	74.00	-13.04	8.97	3	Vertical	190	1.01
AV	5.4576G	48.58	54.00	-5.42	9.09	3	Vertical	190	1.01
PK	5.4612G	60.63	68.20	-7.57	9.10	3	Vertical	190	1.01
PK	5.6592G	109.04	Inf	-Inf	9.29	3	Vertical	190	1.01
AV	5.6604G	99.74	Inf	-Inf	9.29	3	Vertical	190	1.01
PK	5.7252G	67.53	68.20	-0.67	9.32	3	Vertical	190	1.01

802.11ac VHT40_Nss1,(MCS0)_2TX

5670MHz_TX

29/09/2018



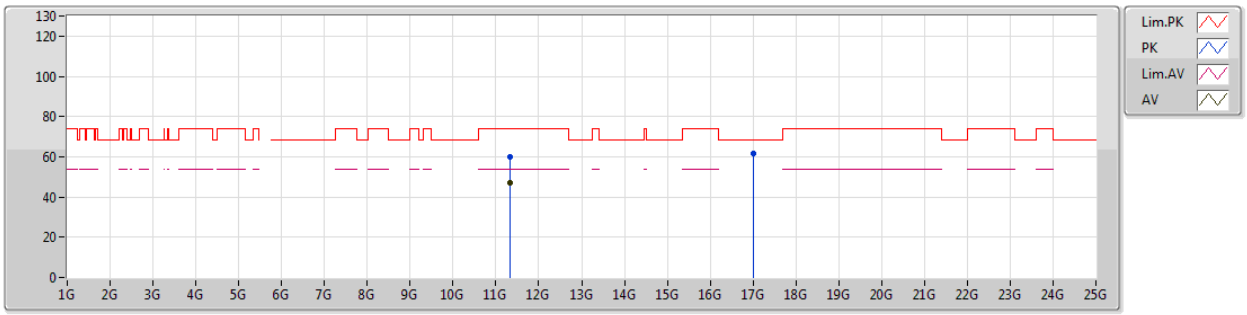
EUT Y_2TX
Setting 17.5
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.33986G	55.43	74.00	-18.57	14.50	3	Vertical	296	1.24
AV	11.34018G	42.36	54.00	-11.64	14.50	3	Vertical	296	1.24
PK	17.0145G	61.42	68.20	-6.78	19.19	3	Vertical	58	1.84

802.11ac VHT40_Nss1,(MCS0)_2TX

5670MHz_TX

29/09/2018



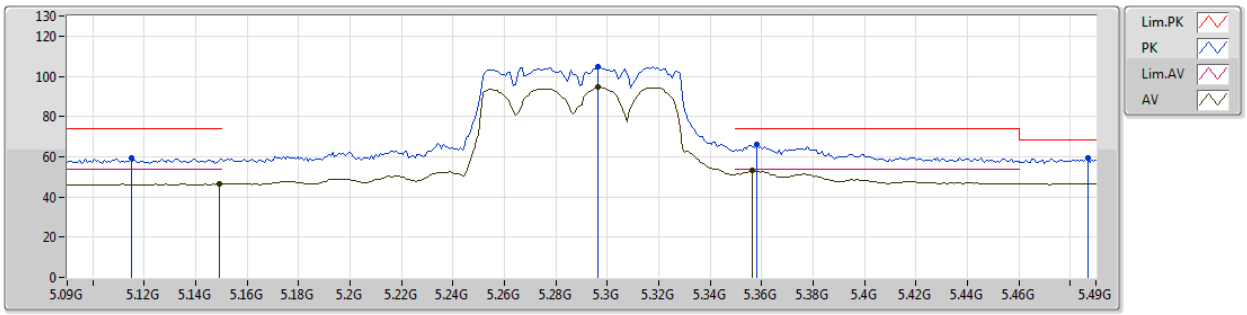
EUT Y_2TX
Setting 17.5
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.34088G	60.00	74.00	-14.00	14.50	3	Horizontal	296	2.84
AV	11.33982G	46.99	54.00	-7.01	14.50	3	Horizontal	296	2.84
PK	17.01014G	61.89	68.20	-6.31	19.16	3	Horizontal	329	1.72

802.11ac VHT80_Nss1,(MCS0)_2TX

5290MHz_TX

21/09/2018



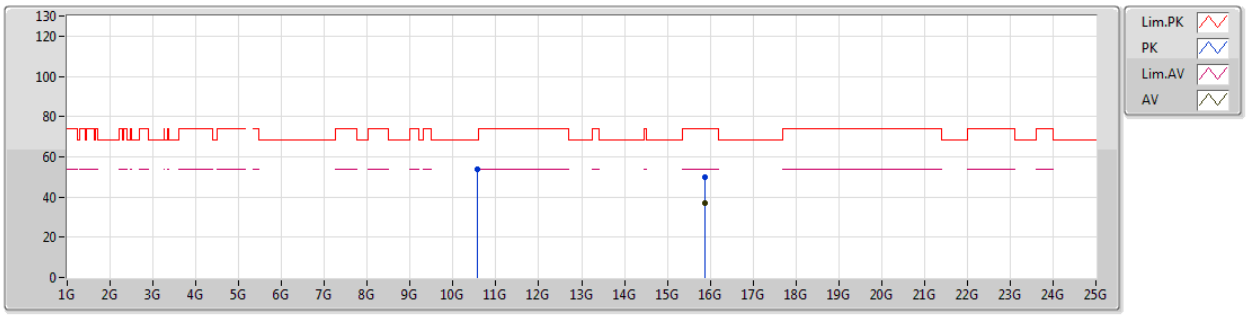
EUT Y_2TX
Setting 16.5
02-M-1-10
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.1148G	59.14	74.00	-14.86	8.51	3	Vertical	186	2.99
AV	5.1492G	46.52	54.00	-7.48	8.56	3	Vertical	186	2.99
PK	5.2964G	104.68	Inf	-Inf	8.82	3	Vertical	186	2.99
AV	5.2964G	94.63	Inf	-Inf	8.82	3	Vertical	186	2.99
PK	5.358G	65.97	74.00	-8.03	8.89	3	Vertical	186	2.99
AV	5.3564G	52.97	54.00	-1.03	8.89	3	Vertical	186	2.99
PK	5.4868G	59.36	68.20	-8.84	9.17	3	Vertical	186	2.99

802.11ac VHT80_Nss1,(MCS0)_2TX

5290MHz_TX

21/09/2018



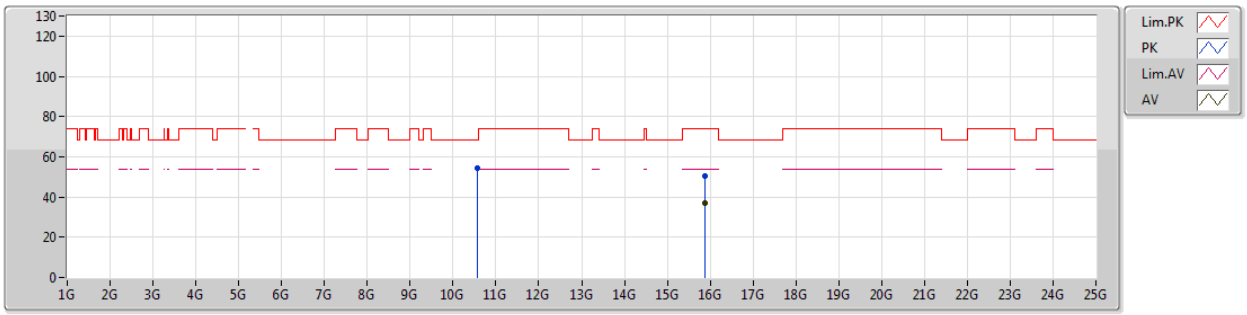
EUT Y_2TX
Setting 16.5
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.58041G	53.55	68.20	-14.65	14.43	3	Vertical	292	1.25
PK	15.87103G	50.09	74.00	-23.91	15.22	3	Vertical	87	1.63
AV	15.87077G	37.06	54.00	-16.94	15.22	3	Vertical	87	1.63

802.11ac VHT80_Nss1,(MCS0)_2TX

5290MHz_TX

21/09/2018



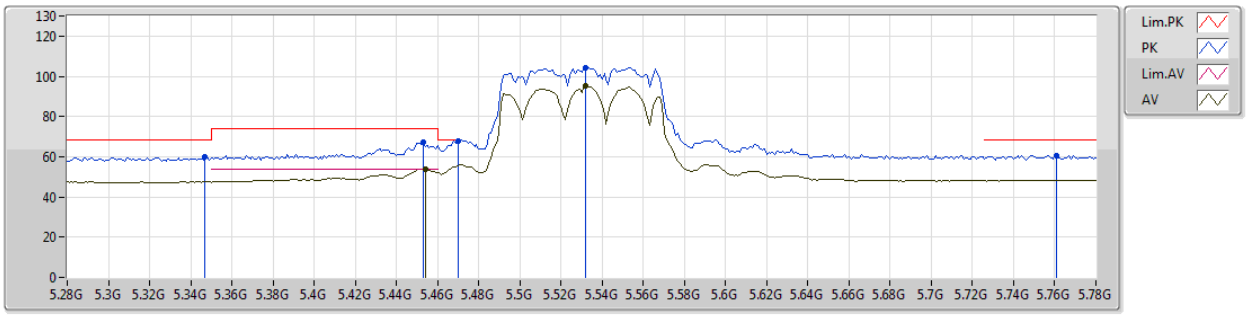
EUT Y_2TX
Setting 16.5
02-M-1
FSU(100050)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	10.57941G	54.42	68.20	-13.78	14.43	3	Horizontal	229	1.37
PK	15.8702G	50.45	74.00	-23.55	15.22	3	Horizontal	247	1.23
AV	15.87166G	36.94	54.00	-17.06	15.22	3	Horizontal	247	1.23

802.11ac VHT80_Nss1,(MCS0)_2TX

5530MHz_TX

29/09/2018



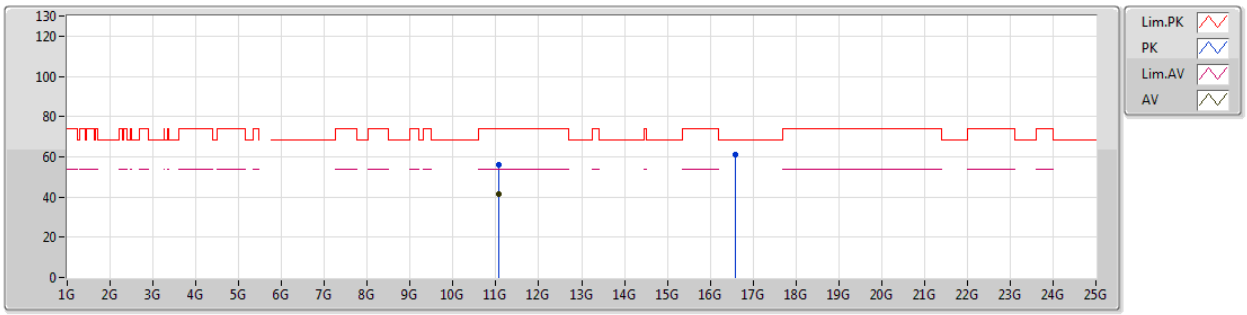
EUT Y_2TX
Setting 16.5
02-K-3-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.347G	59.78	68.20	-8.42	8.88	3	Vertical	185	2.48
PK	5.453G	67.21	74.00	-6.79	9.08	3	Vertical	185	2.48
AV	5.454G	53.87	54.00	-0.13	9.08	3	Vertical	185	2.48
PK	5.47G	68.01	68.20	-0.19	9.12	3	Vertical	185	2.48
PK	5.532G	104.32	Inf	-Inf	9.23	3	Vertical	185	2.48
AV	5.532G	95.00	Inf	-Inf	9.23	3	Vertical	185	2.48
PK	5.761G	60.64	68.20	-7.56	9.32	3	Vertical	185	2.48

802.11ac VHT80_Nss1,(MCS0)_2TX

5530MHz_TX

29/09/2018



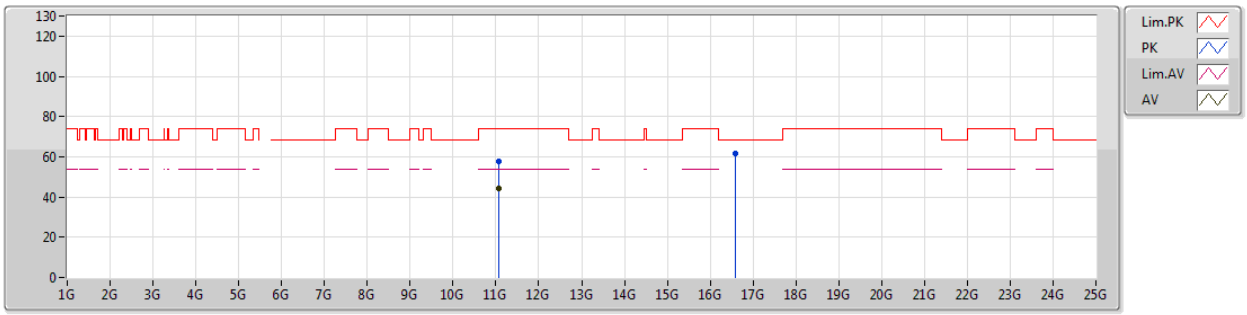
EUT Y_2TX
Setting 16.5
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.06052G	55.77	74.00	-18.23	14.16	3	Vertical	30	2.10
AV	11.0597G	41.29	54.00	-12.71	14.16	3	Vertical	30	2.10
PK	16.59466G	61.21	68.20	-6.99	17.40	3	Vertical	119	1.49

802.11ac VHT80_Nss1,(MCS0)_2TX

5530MHz_TX

29/09/2018



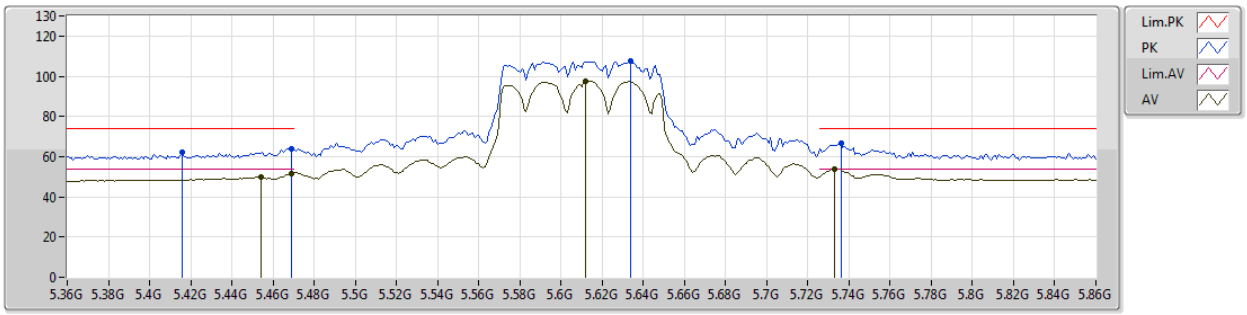
EUT Y_2TX
Setting 16.5
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.0598G	57.67	74.00	-16.33	14.16	3	Horizontal	312	2.96
AV	11.0598G	44.15	54.00	-9.85	14.16	3	Horizontal	312	2.96
PK	16.59382G	61.52	68.20	-6.68	17.40	3	Horizontal	322	2.99

802.11ac VHT80_Nss1,(MCS0)_2TX

5610MHz_TX

29/09/2018



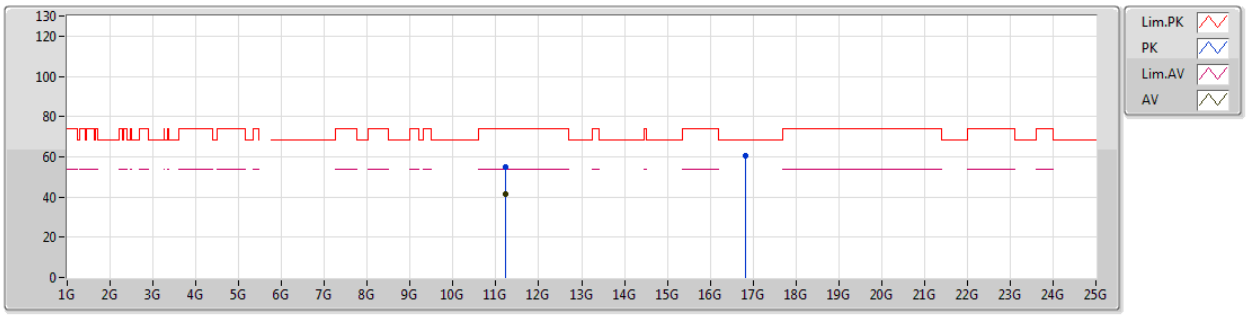
EUT Y_2TX
Setting 19
02-K-3-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	5.416G	62.31	74.00	-11.69	8.99	3	Vertical	176	2.55
AV	5.454G	49.76	54.00	-4.24	9.08	3	Vertical	176	2.55
PK	5.469G	63.95	74.00	-10.05	9.12	3	Vertical	176	2.55
AV	5.469G	51.72	54.00	-2.28	9.12	3	Vertical	176	2.55
PK	5.634G	107.35	Inf	-Inf	9.29	3	Vertical	176	2.55
AV	5.612G	97.69	Inf	-Inf	9.28	3	Vertical	176	2.55
PK	5.736G	66.86	74.00	-7.14	9.32	3	Vertical	176	2.55
AV	5.733G	53.89	54.00	-0.11	9.32	3	Vertical	176	2.55

802.11ac VHT80_Nss1,(MCS0)_2TX

5610MHz_TX

29/09/2018



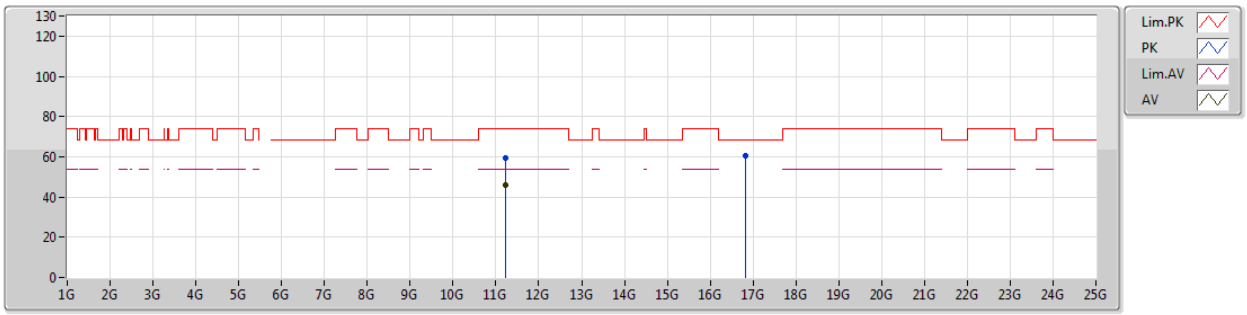
EUT Y_2TX
Setting 19
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.22348G	54.73	74.00	-19.27	14.35	3	Vertical	338	1.94
AV	11.22022G	41.67	54.00	-12.33	14.35	3	Vertical	338	1.94
PK	16.82602G	60.29	68.20	-7.91	18.37	3	Vertical	286	1.87

802.11ac VHT80_Nss1,(MCS0)_2TX

5610MHz_TX

29/09/2018



EUT Y_2TX
Setting 19
02-K-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
PK	11.22326G	59.47	74.00	-14.53	14.35	3	Horizontal	295	2.99
AV	11.21944G	45.87	54.00	-8.13	14.35	3	Horizontal	295	2.99
PK	16.83346G	60.62	68.20	-7.58	18.40	3	Horizontal	168	1.30