

FCC RADIO TEST REPORT

FCC ID : HEDML16035
Equipment : MetroLin Outdoor 60GHz PTP + 5GHz + 2.4GHz
Brand Name : Ignitenet
Model Name : ML1-60-35/ML1-60-19
Applicant : Accton Technology Corp
No. 1, Creation Rd. III, Science-based Industrial
Park Hsin Chu 30077, Taiwan
Manufacturer (1) : Joy Technology (Shen Zhen) Co. Ltd
HengKeng Ind., Shangpai, Shangwu, Aiqun Rd.,
Shiyan Town, Shenzhen 518108 China
Manufacturer (2) : Accton Technology Corp
No. 1, Creation Rd. III, Science-based Industrial
Park Hsin Chu 30077, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Aug. 19, 2019, and testing was started from Aug. 24, 2019 and completed on Aug. 27, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Cliff Chang

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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	8
1.3 Testing Location Information	8
1.4 Measurement Uncertainty	8
2 Test Configuration of EUT	9
2.1 Test Channel Mode	9
2.2 The Worst Case Measurement Configuration.....	10
2.3 EUT Operation during Test	10
2.4 Accessories	10
2.5 Support Equipment.....	10
2.6 Test Setup Diagram	11
3 Transmitter Test Result	12
3.1 Emission Bandwidth	12
3.2 Maximum Conducted Output Power	14
3.3 Peak Power Spectral Density.....	16
3.4 Unwanted Emissions.....	19
4 Test Equipment and Calibration Data	22
Appendix A. Test Results of Emission Bandwidth	
Appendix B. Test Results of Maximum Conducted Output Power	
Appendix C. Test Results of Peak Power Spectral Density	
Appendix D. Test Results of Unwanted Emissions	
Appendix E. Test Photos	
Photographs of EUT v01	



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_1 Ver1.0



Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Wendy Pan



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**For WLAN Function:**

Set	Brand	P/N (Model Name)	Antenna Type	Connector	Antenna Gain (dBi)
1	FT-RF	OS-242509-NM	Dipole	N-Male	Note 1
2	Accton	120G00000174X	Dish Ant.	MMCX	
3	Accton	120G00000175X	Dish Ant.	MMCX	

Note 1:

Set	Antenna Gain (dBi)					Cable Loss (dB)		True Gain (dBi)				
	2.4GHz	5GHz Band 1	5GHz Band 2	5GHz Band 3	5GHz Band 4	2.4GHz	5GHz	2.4GHz	5GHz Band 1	5GHz Band 2	5GHz Band 3	5GHz Band 4
1	9.00	-	-	-	-	1.18	-	7.82	-	-	-	-
2	-	20.00	16.10	16.00	20.00	-	-	-	20.00	16.10	16.00	20.00
3	-	13.40	10.70	10.70	13.40	-	-	-	13.40	10.70	10.70	13.40

Note2: The above information was declared by manufacturer.

EUT 1 allocates with antenna set 1 and set 2.

EUT 2 allocates with antenna set 1 and set 3.

Because 5GHz Set 2 and Set 3 are the same type antennas, only the higher gain antenna "Set 2" was tested.

For 2.4GHz function:**For IEEE 802.11b/g/n mode (2TX/2RX):**

Port 1 and Port 2 connect to Set 1.

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:**For IEEE 802.11a/n/ac mode (2TX/2RX):**

Port 1 and Port 2 connect to Set 2 or Set 3.

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 60GHz Function:

Ant.	Brand	Part Number	Antenna Type	Connector	Gain (dBi)
1	Accton	123400001485A	Dish Ant.	N/A	42
2	Accton	123400001486A	Dish Ant.	N/A	38

Note: The above information was declared by manufacturer.

EUT 1 allocates with antenna set 1.

EUT 2 allocates with antenna set 2

Ant.1 and Ant.2 can be used as transmitting/receiving antenna.



1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.965	0.15	2.068m	1k
802.11ac VHT20	0.985	0.07	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11ac VHT40	0.968	0.14	2.44m	1k
802.11ac VHT80	0.933	0.3	1.15m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE or DC 48V			
Beamforming Function	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/>	Without beamforming
Weather Band	<input checked="" type="checkbox"/>	With 5600~5650MHz	<input type="checkbox"/>	Without 5600~5650MHz
Function	<input type="checkbox"/>	Outdoor P2M	<input type="checkbox"/>	Indoor P2M
	<input checked="" type="checkbox"/>	Fixed P2P	<input type="checkbox"/>	Client
TPC Function	<input checked="" type="checkbox"/>	With TPC	<input type="checkbox"/>	Without TPC
Test Software Version	QCARCT(V3.0.187.0)			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

The EUT has two model names which are identical to each other in all aspects except for the following table:

Brand Name	Model Name	EUT No.	WLAN 2.4GHz	WLAN 5GHz	60GHz
			Ant. Model Name	Ant. Model Name	Ant. Model Name
Ignitenet	ML1-60-35	EUT 1	OS-242509-NM	120G00000174X	123400001485A
	ML1-60-19	EUT 2	OS-242509-NM	120G00000175X	123400001486A

From the above models, model: ML1-60-35 was selected as representative model for the test and its data was recorded in this report.

1.1.6 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR7D2234-05AB

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

Modifications	Performance Checking
Adding 5GHz band 2 and band 3 (5250~5350 MHz, 5470~5725 MHz) for this device.	<ol style="list-style-type: none"> 1. Emission Bandwidth. 2. Maximum Conducted Output Power. 3. Peak Power Spectral Density. 4. Unwanted Emissions above 1GHz



1.2 Applicable 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				
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	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	Lance Wu	23.9~25.3°C / 63~68%	Aug. 27, 2019
Radiated	03CH03-CB	Welson Chen	24.2~25.7°C / 62~68%	Aug. 24, 2019 ~ Aug. 26, 2019

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	6.5
5300MHz	6.5
5320MHz	6.5
5500MHz	7
5580MHz	6.5
5700MHz	2.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5260MHz	6.5
5300MHz	6.5
5320MHz	7
5500MHz	7
5580MHz	7
5700MHz	2.5
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5270MHz	8.5
5310MHz	9.5
5510MHz	9.5
5550MHz	9.5
5670MHz	9.5
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5290MHz	9.5
5530MHz	9.5
5610MHz	9.5

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 Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1 - WLAN 2.4GHz + WLAN 5GHz + 60GHz
Refer to Sporton Test Report No.: FA7D2234-14 for Co-location RF Exposure Evaluation.	

- Note: 1. The EUT can only be used at Y axis position.
2. The defines from manufacturer, "USB port" without any function, and it was performed test at the load.
3. The PoE is for measurement only, would not be marketed, and its information as below:

Equipment	Brand	Model	FCC ID
PoE	CARRIER	GME241DA-480050G	N/A

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

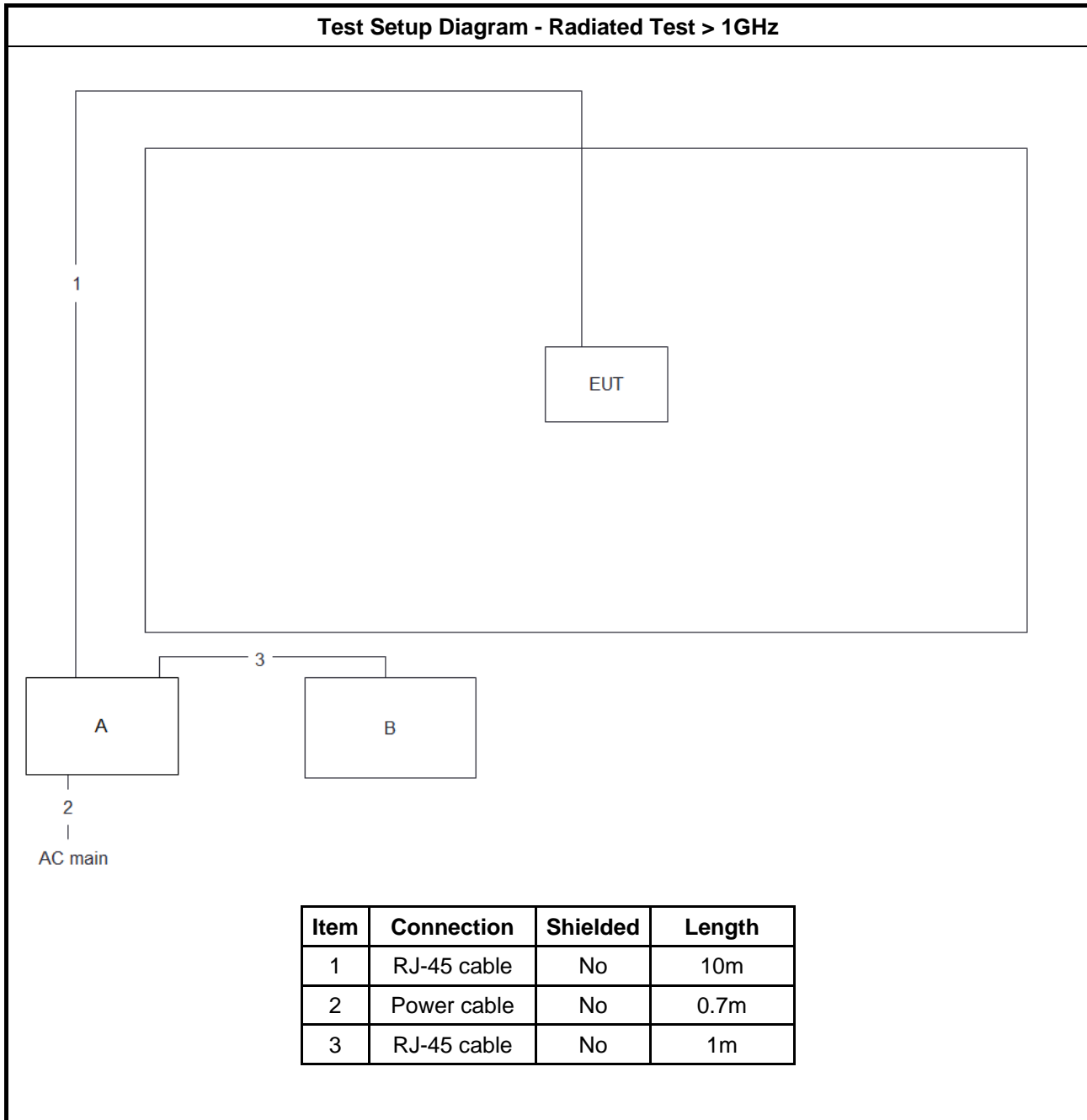
2.4 Accessories

N/A

2.5 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE	CARRIER	GME241DA-480050G	N/A

2.6 Test Setup Diagram





3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.
LE-LAN Devices	
<input type="checkbox"/>	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.
<input type="checkbox"/>	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
<input type="checkbox"/>	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
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.

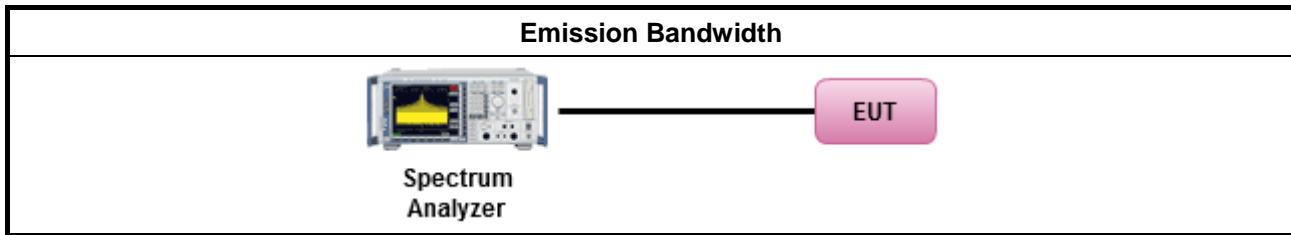
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none">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 $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	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 $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	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 $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none">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	
<input type="checkbox"/> 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.	
<input type="checkbox"/> 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	
<input type="checkbox"/> 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	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none">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.	

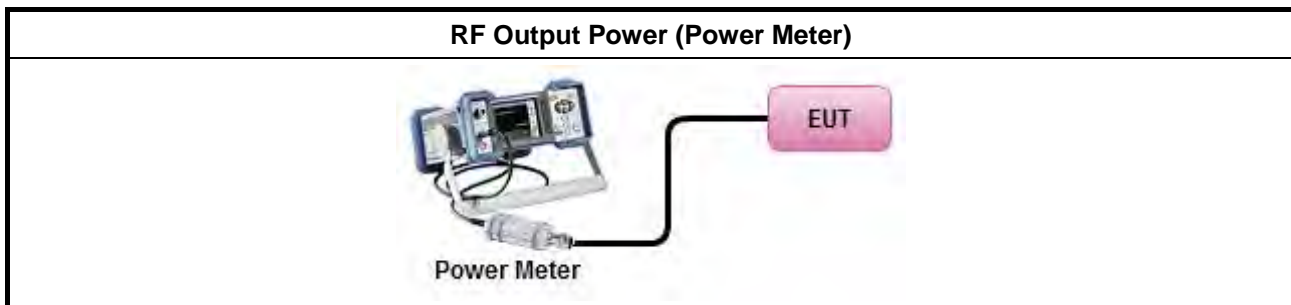
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Maximum Conducted Output Power 	
	Average over on/off periods with duty factor
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
<ul style="list-style-type: none"> For conducted measurement. 	
<ul style="list-style-type: none"> 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. 	
<ul style="list-style-type: none"> If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.2.4 Test Setup



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	
<input type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none">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 $PPSD = 11 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none">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	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
<input type="checkbox"/>	<ul style="list-style-type: none">e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none">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.	

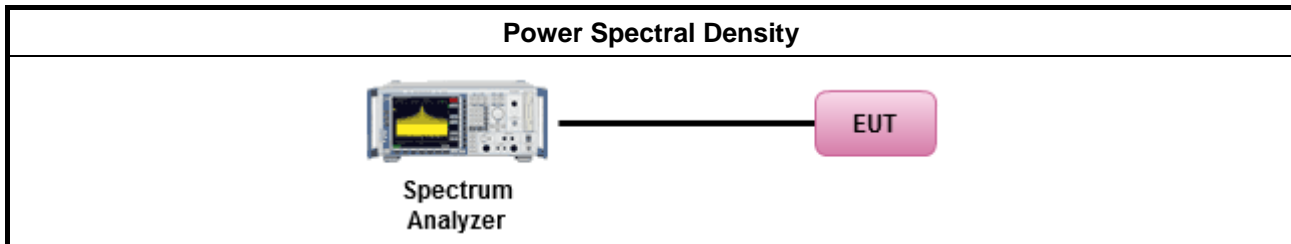
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> 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: 	
<input type="checkbox"/>	Refer as FCC KDB 789033, F5) 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]	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<ul style="list-style-type: none"> For conducted measurement. 	
<ul style="list-style-type: none"> If the EUT supports multiple transmit chains using options given below: 	
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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,
<input type="checkbox"/>	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.
<ul style="list-style-type: none"> If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C



3.4 Unwanted Emissions

3.4.1 Transmitter Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
<input type="checkbox"/> 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input checked="" type="checkbox"/> 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input checked="" type="checkbox"/> 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input type="checkbox"/> 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).

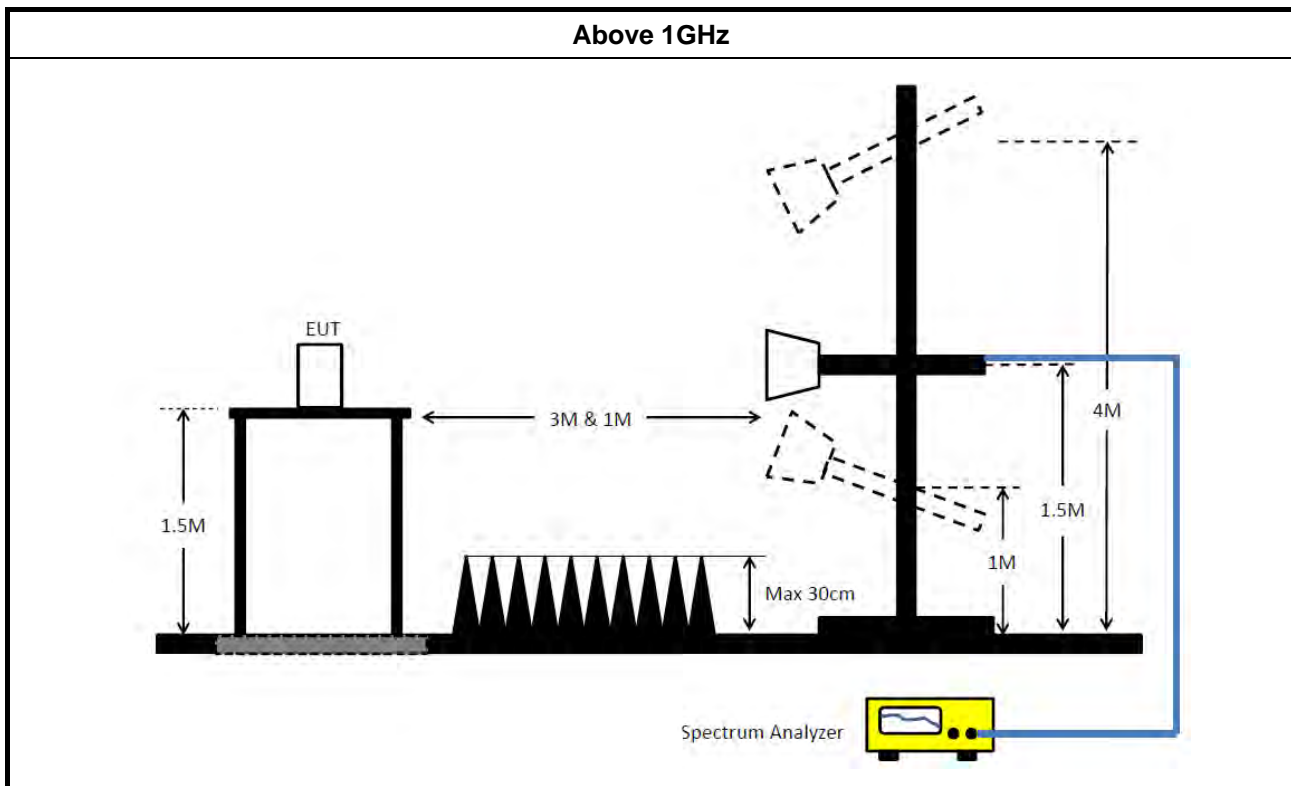
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none">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).	
<ul style="list-style-type: none">The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
<ul style="list-style-type: none">For the transmitter unwanted emissions shall be measured using following options below:	
	<ul style="list-style-type: none">Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	<ul style="list-style-type: none">Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
	<ul style="list-style-type: none">For radiated measurement.
	<ul style="list-style-type: none">Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	<ul style="list-style-type: none">Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	<ul style="list-style-type: none">Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	<ul style="list-style-type: none">The any unwanted emissions level shall not exceed the fundamental emission level.
<ul style="list-style-type: none">All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.4.4 Test Setup



3.4.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.4.6 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	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 24, 2019	Jan. 23, 2020	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Dec. 20, 2018	Dec. 19, 2019	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 19, 2019	Jun. 18, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+27	1GHz ~ 18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-27	1GHz ~ 18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH03-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz ~ 26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.85M	16.523M	16M5D1D	21.35M	16.455M
802.11ac VHT20_Nss1,(MCS0)_2TX	24.1M	17.742M	17M7D1D	22.675M	17.675M
802.11ac VHT40_Nss1,(MCS0)_2TX	44.25M	36.305M	36M3D1D	43.6M	36.207M
802.11ac VHT80_Nss1,(MCS0)_2TX	89.4M	75.886M	75M9D1D	87.8M	75.837M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.4M	16.553M	16M6D1D	21.2M	16.473M
802.11ac VHT20_Nss1,(MCS0)_2TX	23.3M	17.723M	17M7D1D	22.175M	17.665M
802.11ac VHT40_Nss1,(MCS0)_2TX	44.45M	36.41M	36M4D1D	43.55M	36.205M
802.11ac VHT80_Nss1,(MCS0)_2TX	89.3M	76.123M	76M1D1D	87.7M	75.833M

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

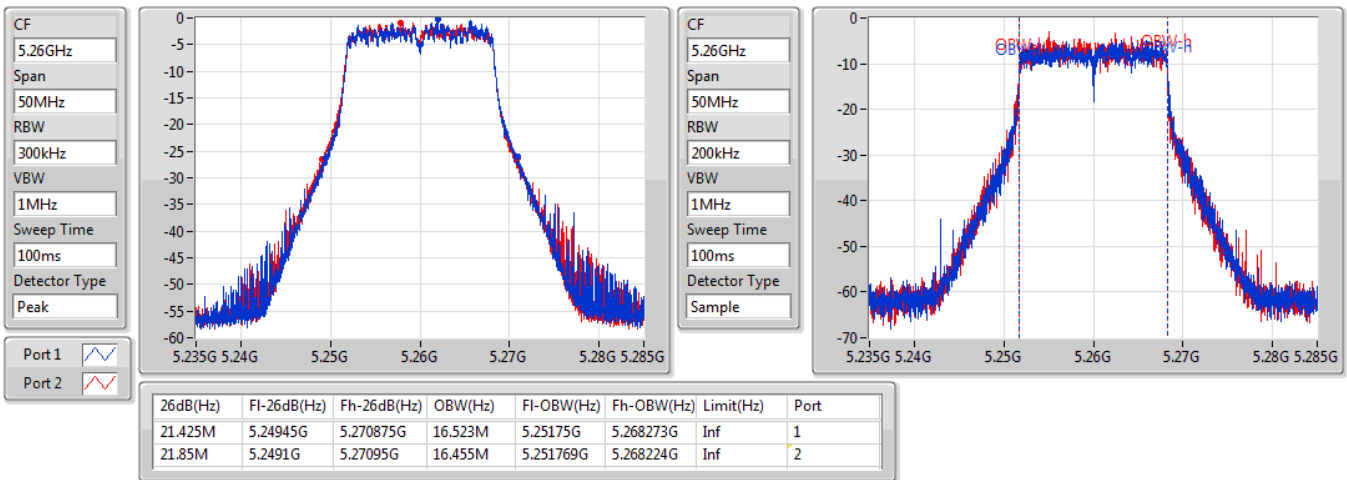
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.425M	16.523M	21.85M	16.455M
5300MHz	Pass	Inf	21.35M	16.482M	21.8M	16.523M
5320MHz	Pass	Inf	21.4M	16.488M	21.75M	16.475M
5500MHz	Pass	Inf	21.2M	16.494M	22.4M	16.473M
5580MHz	Pass	Inf	21.375M	16.505M	21.825M	16.553M
5700MHz	Pass	Inf	21.65M	16.476M	21.775M	16.511M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	22.7M	17.742M	23.025M	17.675M
5300MHz	Pass	Inf	22.95M	17.711M	23.55M	17.69M
5320MHz	Pass	Inf	22.675M	17.7M	24.1M	17.691M
5500MHz	Pass	Inf	22.175M	17.665M	23.075M	17.709M
5580MHz	Pass	Inf	22.75M	17.723M	23.2M	17.718M
5700MHz	Pass	Inf	22.6M	17.695M	23.3M	17.704M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	44.1M	36.207M	44.2M	36.267M
5310MHz	Pass	Inf	44.25M	36.27M	43.6M	36.305M
5510MHz	Pass	Inf	44.35M	36.285M	43.55M	36.225M
5550MHz	Pass	Inf	44.45M	36.359M	43.7M	36.282M
5670MHz	Pass	Inf	44.45M	36.41M	44.05M	36.205M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	87.8M	75.837M	89.4M	75.886M
5530MHz	Pass	Inf	87.7M	76.01M	89M	76.123M
5610MHz	Pass	Inf	88.6M	75.981M	89.3M	75.833M

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

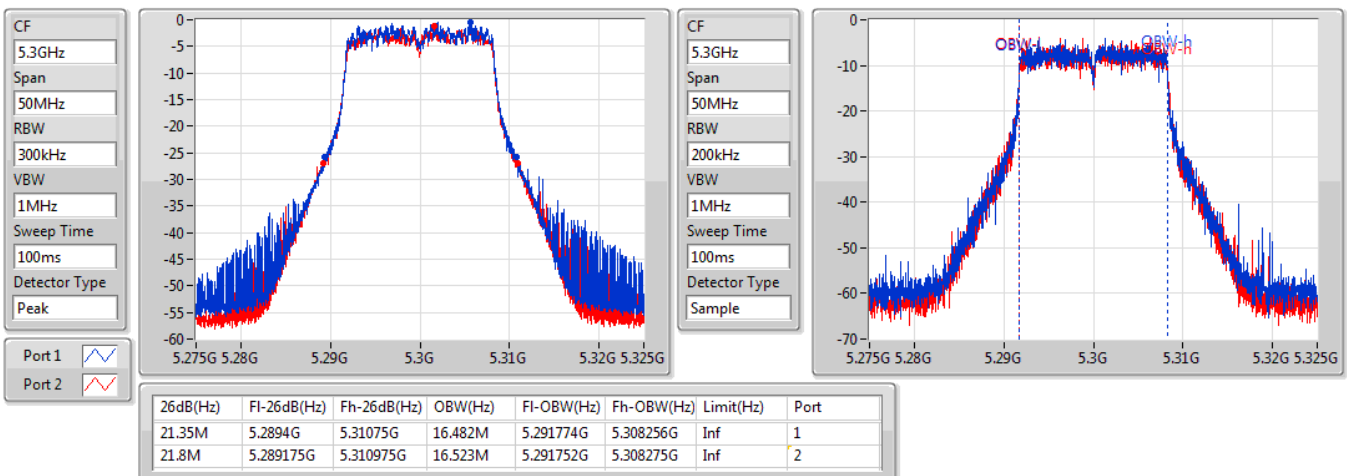
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

27/08/2019

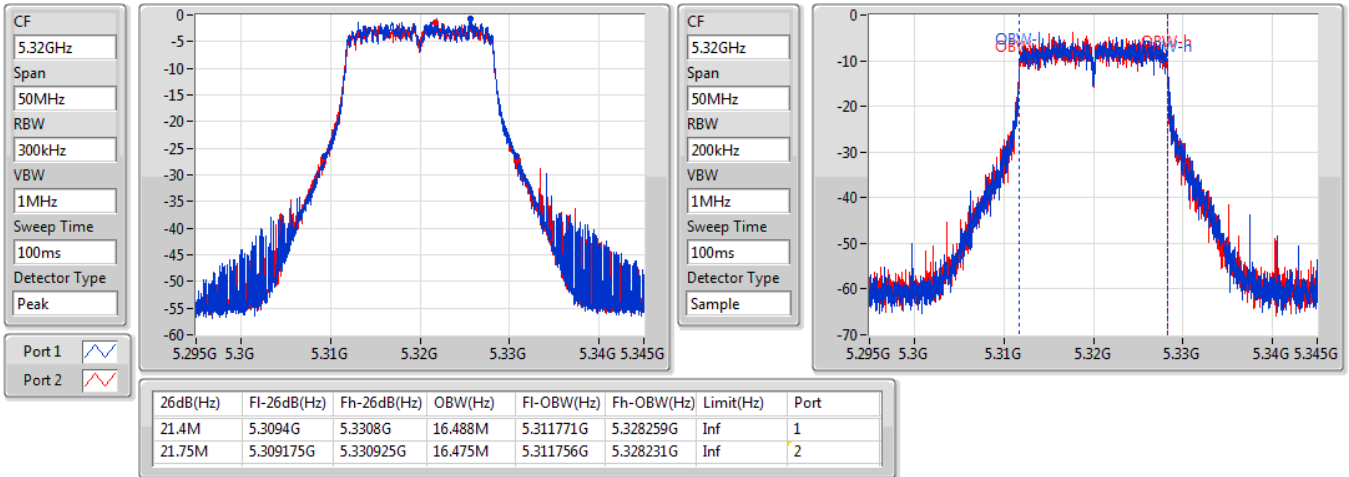

802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

27/08/2019

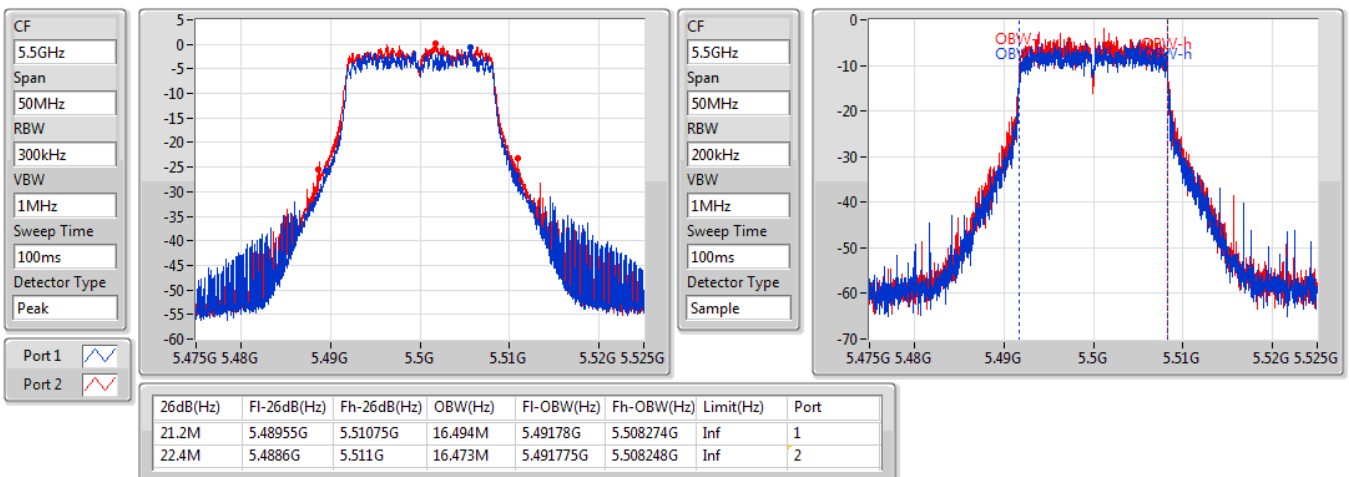


802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

27/08/2019

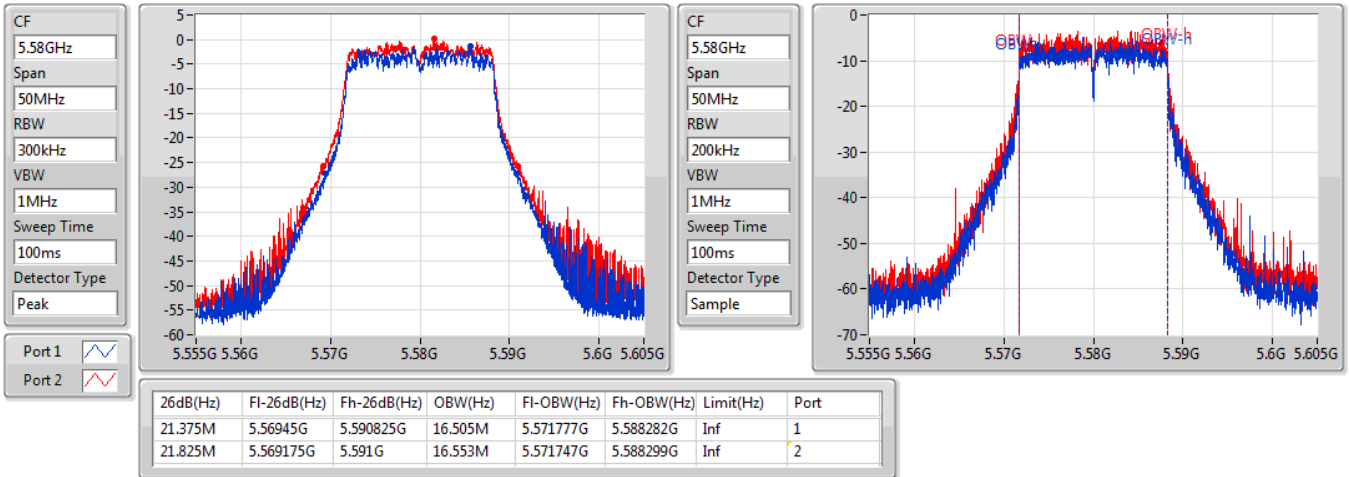

802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

27/08/2019

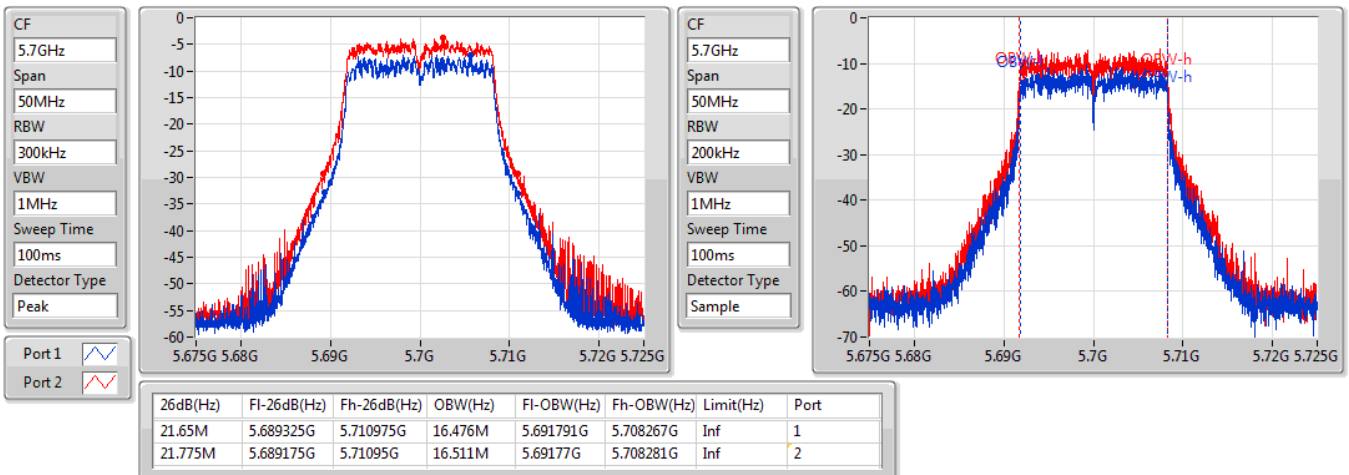


802.11a_Nss1,(6Mbps)_2TX
EBW
5580MHz

27/08/2019

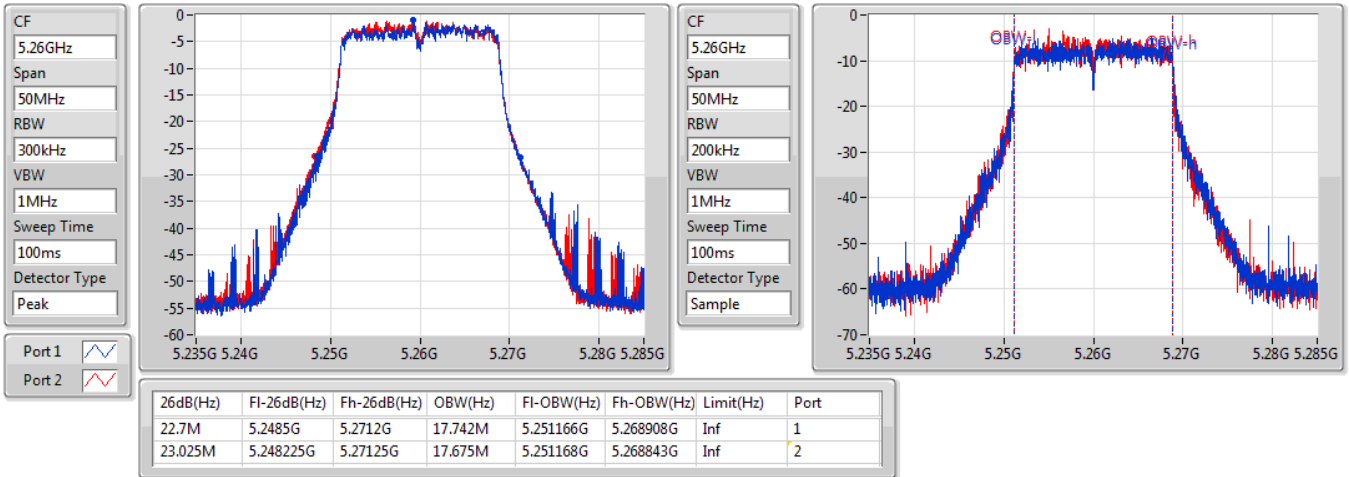

802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

27/08/2019

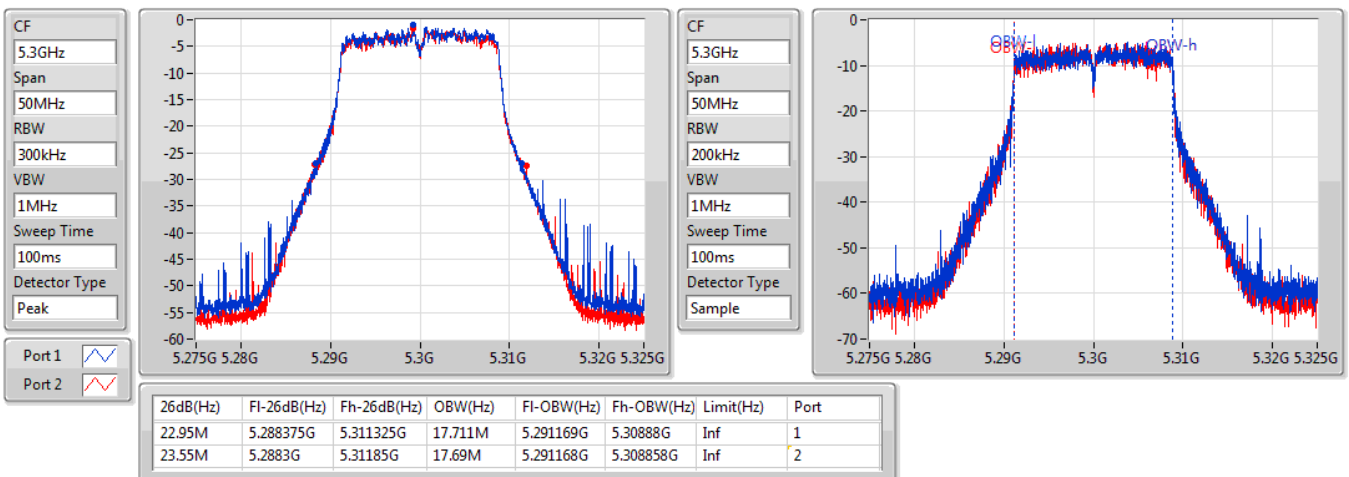


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5260MHz

27/08/2019

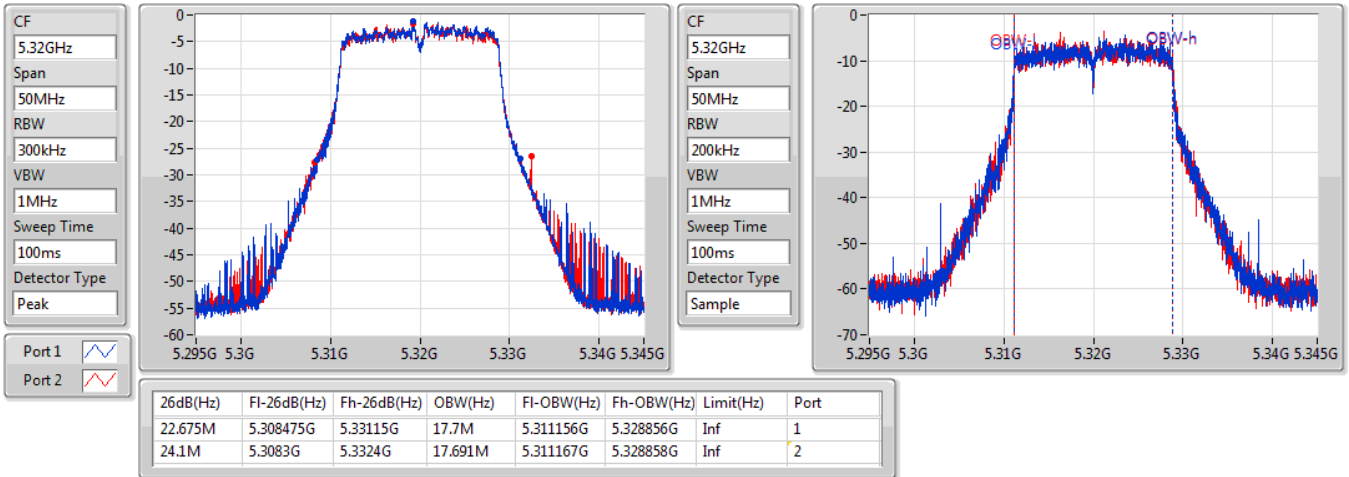

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5300MHz

27/08/2019

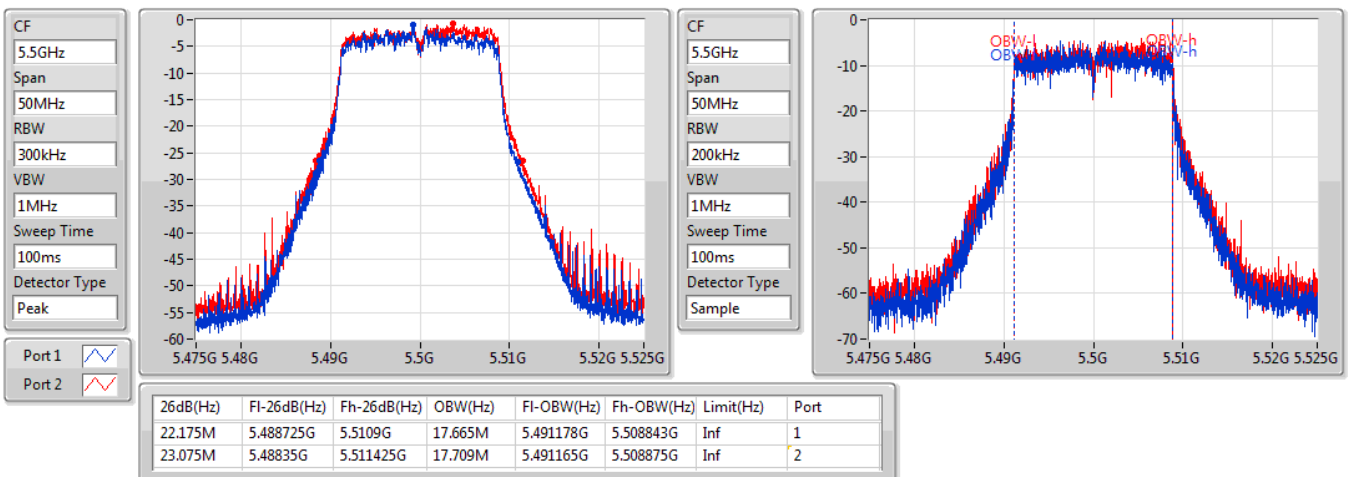


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5320MHz

27/08/2019

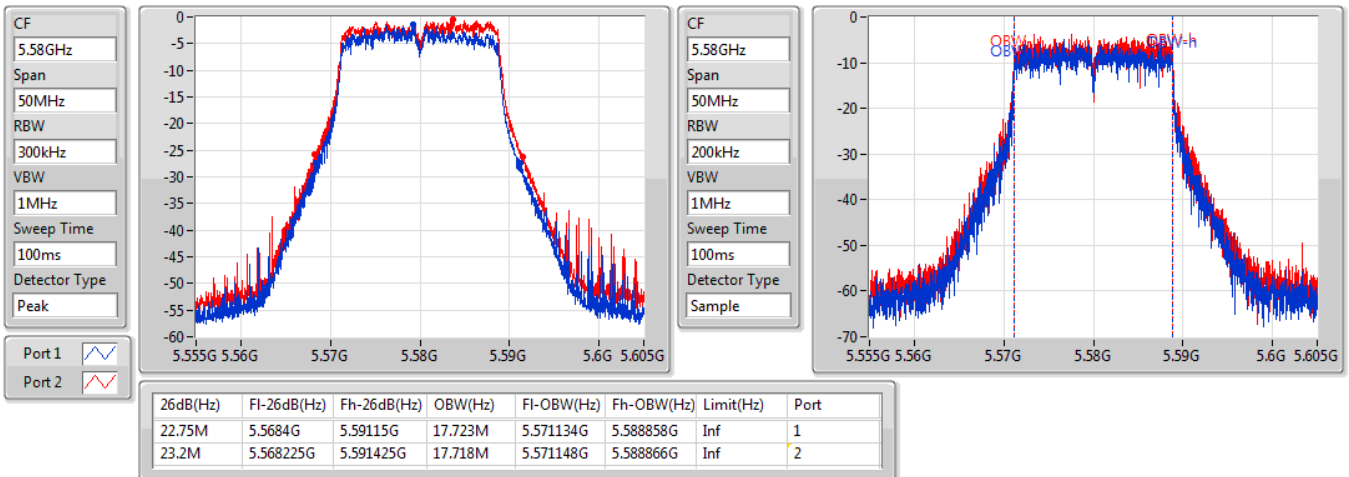

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5500MHz

27/08/2019

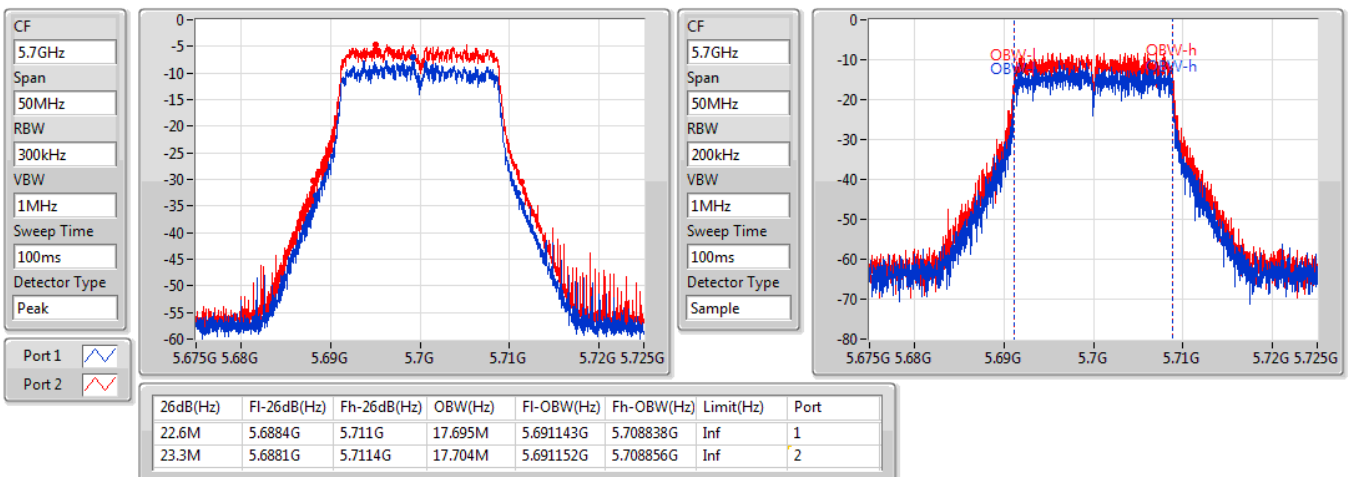


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5580MHz

27/08/2019


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5700MHz

27/08/2019

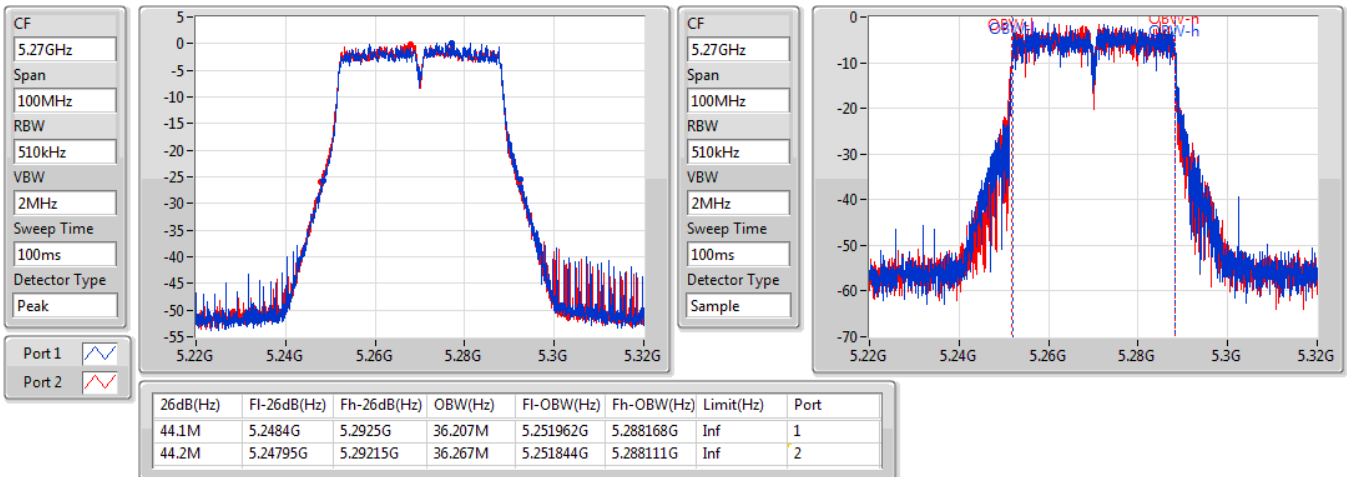


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5270MHz

27/08/2019

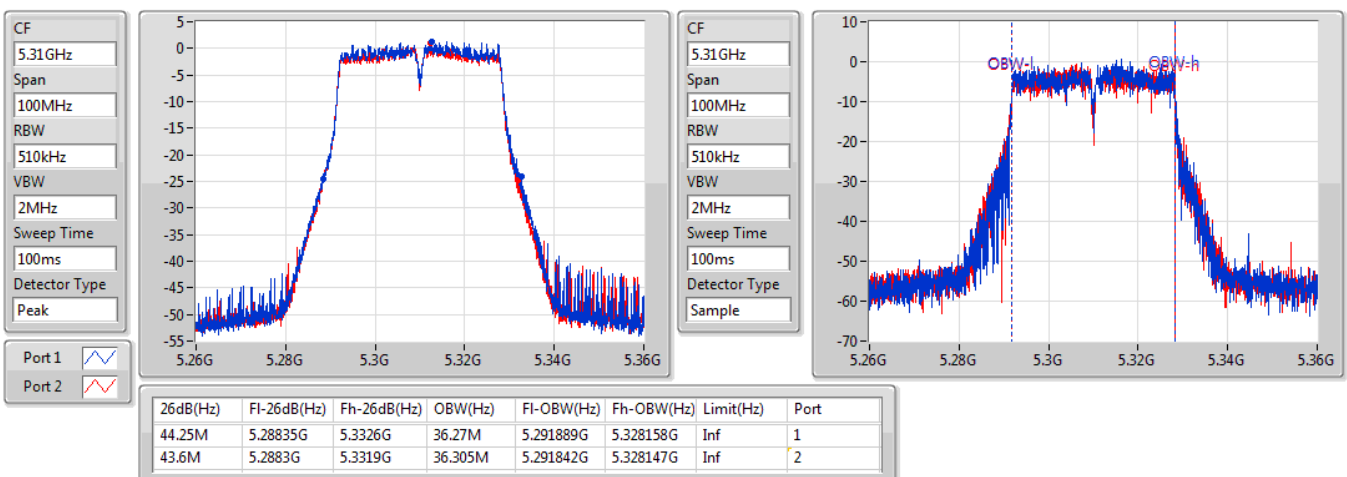


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

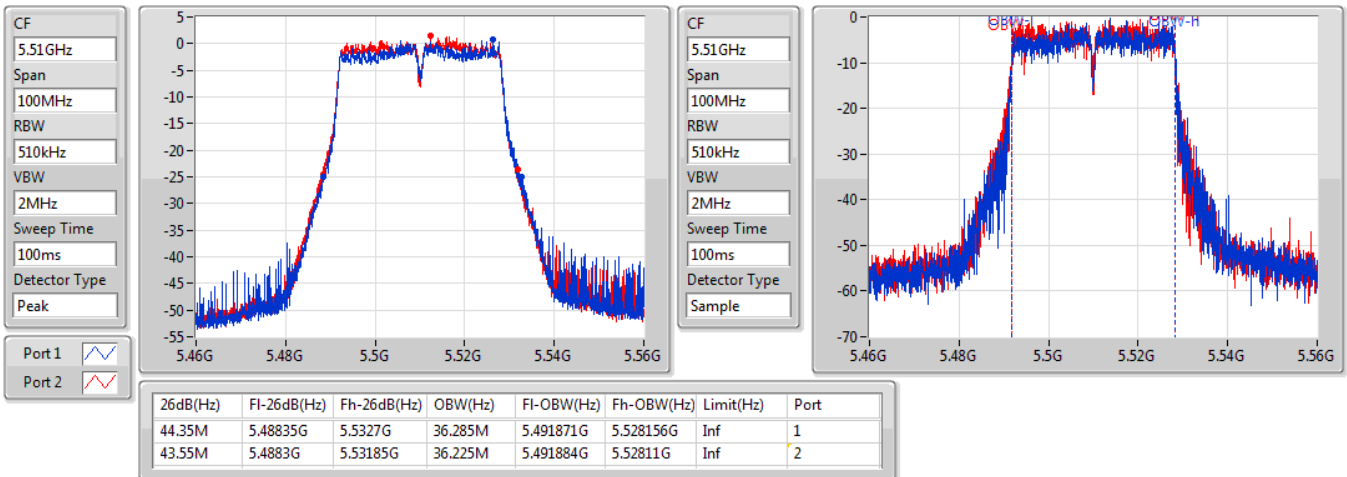
5310MHz

27/08/2019

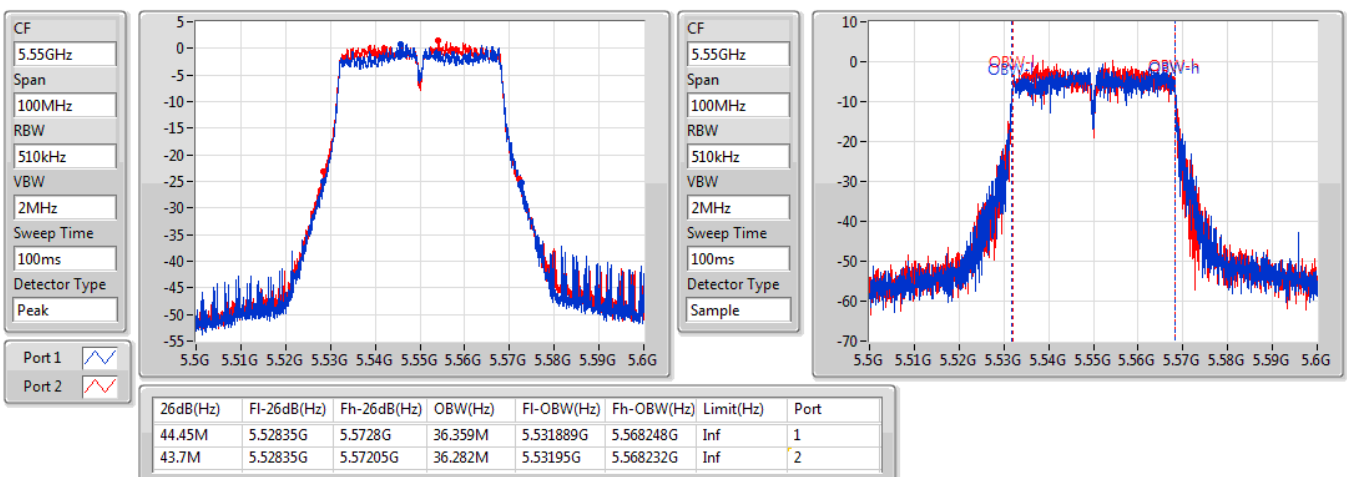


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5510MHz

27/08/2019

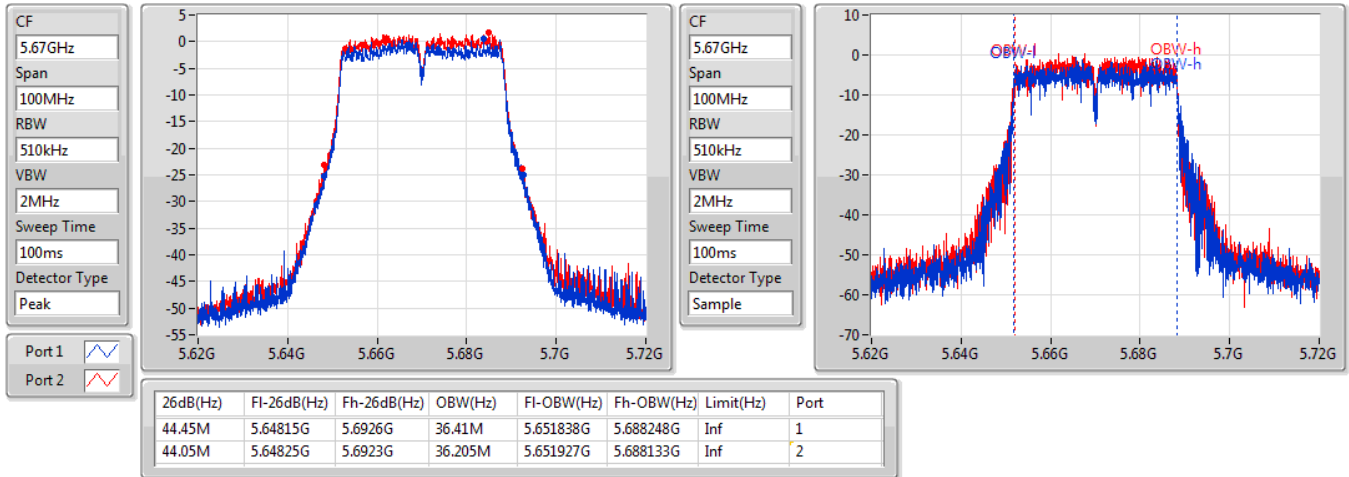

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5550MHz

27/08/2019

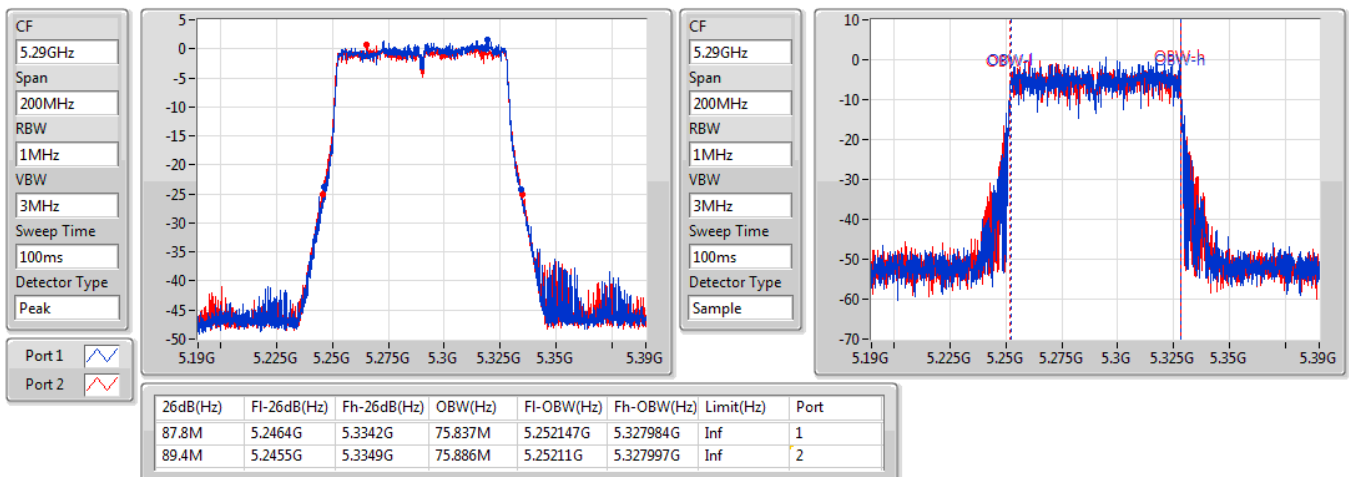


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5670MHz

27/08/2019

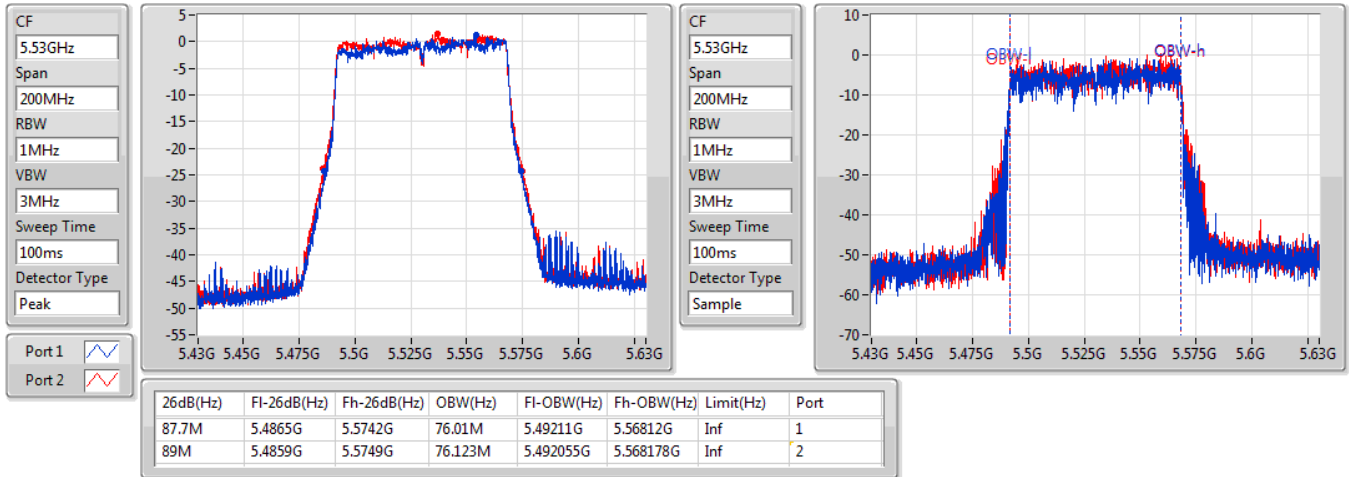

802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5290MHz

27/08/2019

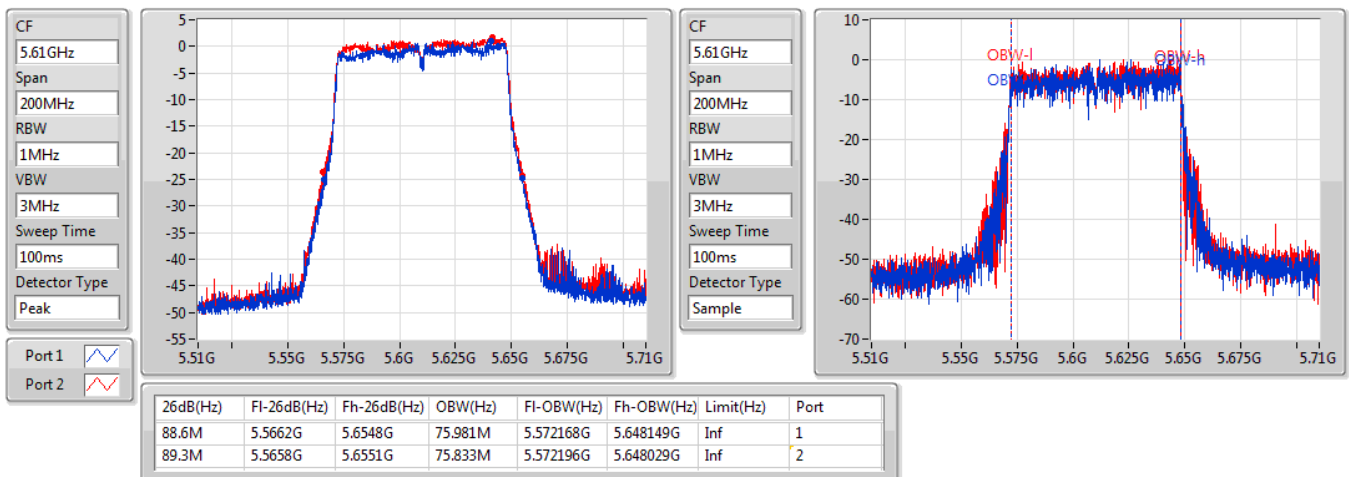


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5530MHz

27/08/2019


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5610MHz

27/08/2019



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.85	0.01216
802.11ac VHT20_Nss1,(MCS0)_2TX	11.01	0.01262
802.11ac VHT40_Nss1,(MCS0)_2TX	13.70	0.02344
802.11ac VHT80_Nss1,(MCS0)_2TX	13.58	0.02280
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	11.20	0.01318
802.11ac VHT20_Nss1,(MCS0)_2TX	11.29	0.01346
802.11ac VHT40_Nss1,(MCS0)_2TX	13.78	0.02388
802.11ac VHT80_Nss1,(MCS0)_2TX	13.59	0.02286

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	16.10	7.61	8.05	10.85	13.88
5300MHz	Pass	16.10	7.99	7.69	10.85	13.88
5320MHz	Pass	16.10	7.73	7.67	10.71	13.88
5500MHz	Pass	16.00	7.50	8.79	11.20	13.98
5580MHz	Pass	16.00	6.63	8.46	10.65	13.98
5700MHz	Pass	16.00	1.12	4.57	6.19	13.98
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	16.10	7.61	8.14	10.89	13.88
5300MHz	Pass	16.10	8.08	7.88	10.99	13.88
5320MHz	Pass	16.10	6.77	8.96	11.01	13.88
5500MHz	Pass	16.00	7.66	8.83	11.29	13.98
5580MHz	Pass	16.00	7.39	8.97	11.26	13.98
5700MHz	Pass	16.00	1.16	4.53	6.17	13.98
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	16.10	9.62	9.65	12.65	13.88
5310MHz	Pass	16.10	11.09	10.25	13.70	13.88
5510MHz	Pass	16.00	9.83	11.55	13.78	13.98
5550MHz	Pass	16.00	10.39	11.12	13.78	13.98
5670MHz	Pass	16.00	9.89	11.48	13.77	13.98
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	16.10	10.57	10.56	13.58	13.88
5530MHz	Pass	16.00	9.94	11.13	13.59	13.98
5610MHz	Pass	16.00	10.04	11.00	13.56	13.98

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

Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_2TX	-2.31
802.11ac VHT20_Nss1,(MCS0)_2TX	-2.22
802.11ac VHT40_Nss1,(MCS0)_2TX	-2.39
802.11ac VHT80_Nss1,(MCS0)_2TX	-6.00
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_2TX	-2.08
802.11ac VHT20_Nss1,(MCS0)_2TX	-2.31
802.11ac VHT40_Nss1,(MCS0)_2TX	-2.59
802.11ac VHT80_Nss1,(MCS0)_2TX	-5.49

RBW = 500 kHz 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	19.11	-5.51	-5.28	-2.50	-2.11
5300MHz	Pass	19.11	-5.08	-5.25	-2.31	-2.11
5320MHz	Pass	19.11	-5.51	-5.57	-2.62	-2.11
5500MHz	Pass	19.01	-5.46	-4.36	-2.08	-2.01
5580MHz	Pass	19.01	-6.00	-4.40	-2.45	-2.01
5700MHz	Pass	19.01	-11.37	-8.08	-6.50	-2.01
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	19.11	-5.43	-5.07	-2.47	-2.11
5300MHz	Pass	19.11	-5.51	-5.57	-2.66	-2.11
5320MHz	Pass	19.11	-5.12	-5.26	-2.22	-2.11
5500MHz	Pass	19.01	-5.79	-4.63	-2.39	-2.01
5580MHz	Pass	19.01	-5.49	-4.42	-2.31	-2.01
5700MHz	Pass	19.01	-11.81	-8.59	-7.01	-2.01
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	19.11	-6.21	-6.25	-3.41	-2.11
5310MHz	Pass	19.11	-5.10	-5.46	-2.39	-2.11
5510MHz	Pass	19.01	-6.11	-5.03	-2.77	-2.01
5550MHz	Pass	19.01	-5.86	-5.15	-2.88	-2.01
5670MHz	Pass	19.01	-6.18	-5.02	-2.59	-2.01
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	19.11	-8.77	-9.21	-6.00	-2.11
5530MHz	Pass	19.01	-9.03	-8.33	-6.05	-2.01
5610MHz	Pass	19.01	-9.03	-7.73	-5.49	-2.01

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

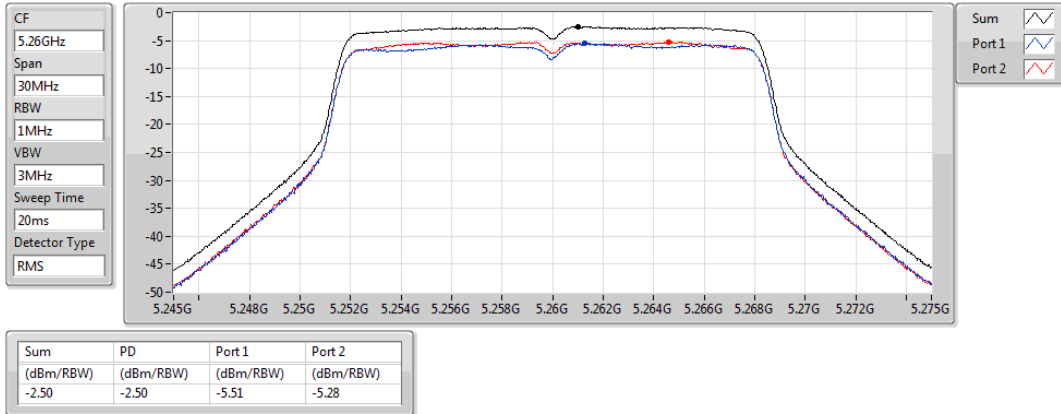
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz

27/08/2019

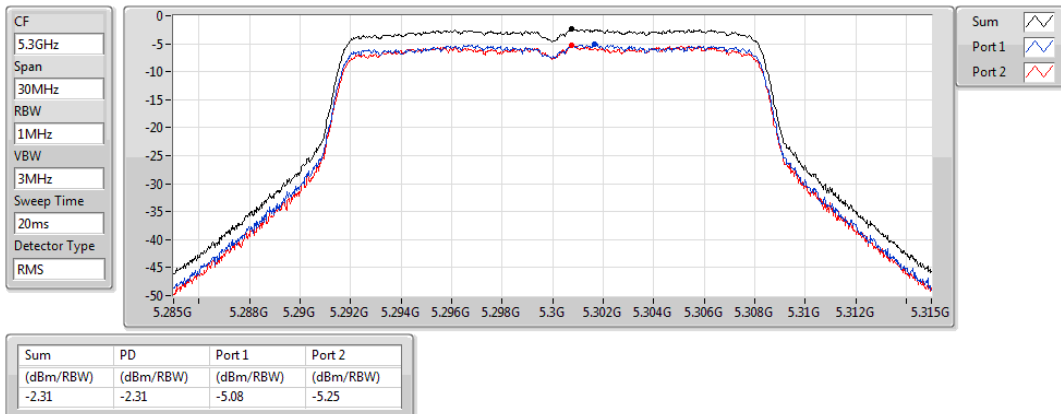


802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

27/08/2019

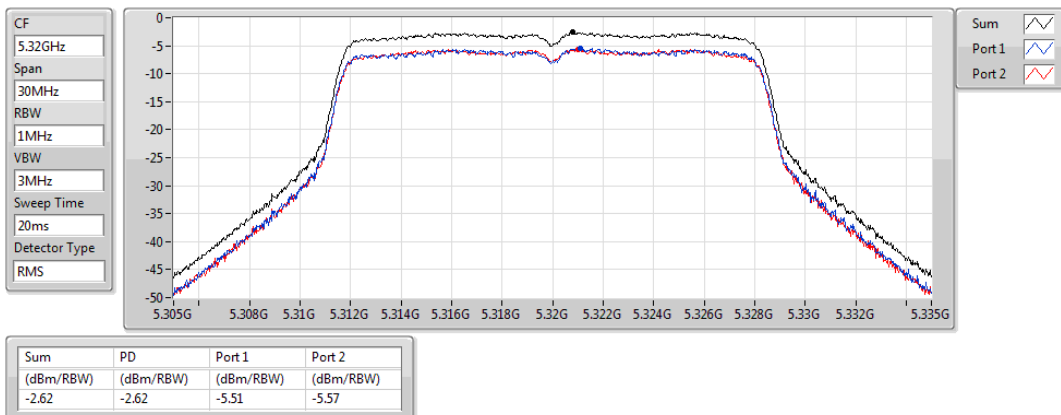


802.11a_Nss1,(6Mbps)_2TX

PSD

5320MHz

27/08/2019

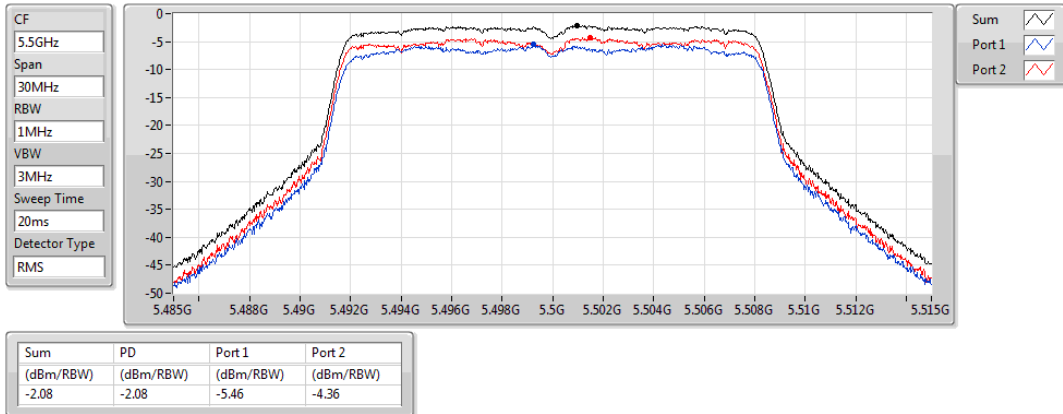


802.11a_Nss1,(6Mbps)_2TX

PSD

5500MHz

27/08/2019

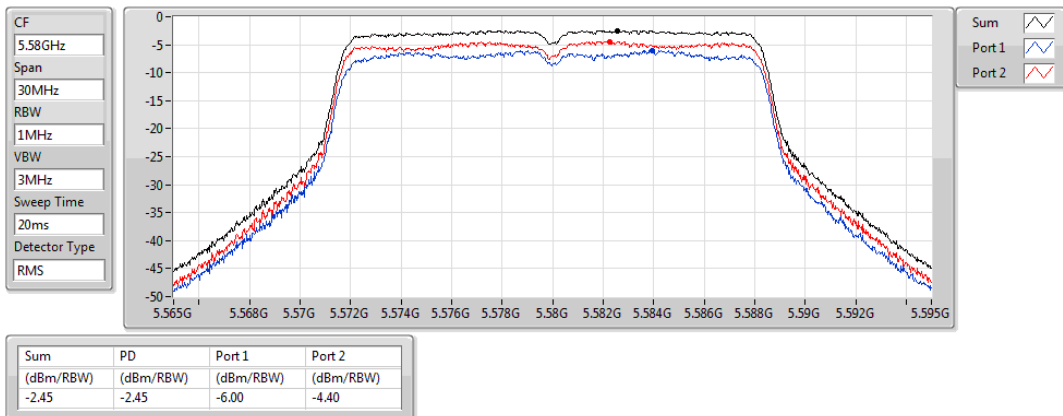


802.11a_Nss1,(6Mbps)_2TX

PSD

5580MHz

27/08/2019

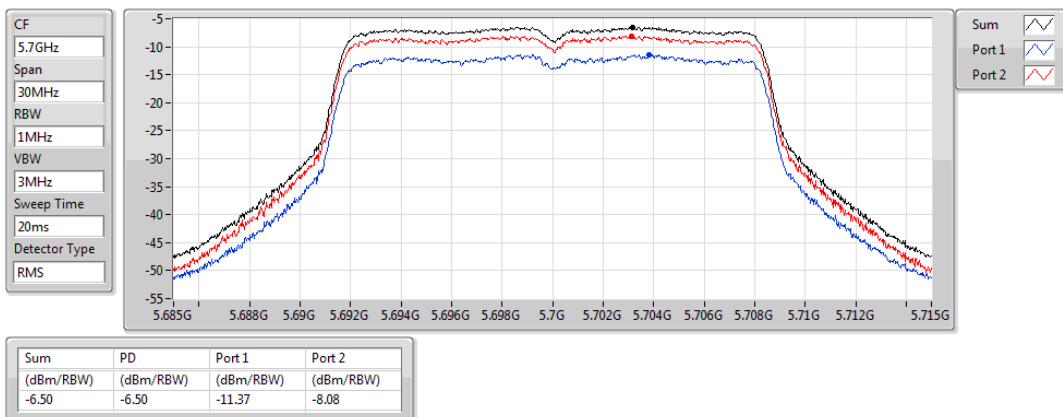


802.11a_Nss1,(6Mbps)_2TX

PSD

5700MHz

27/08/2019

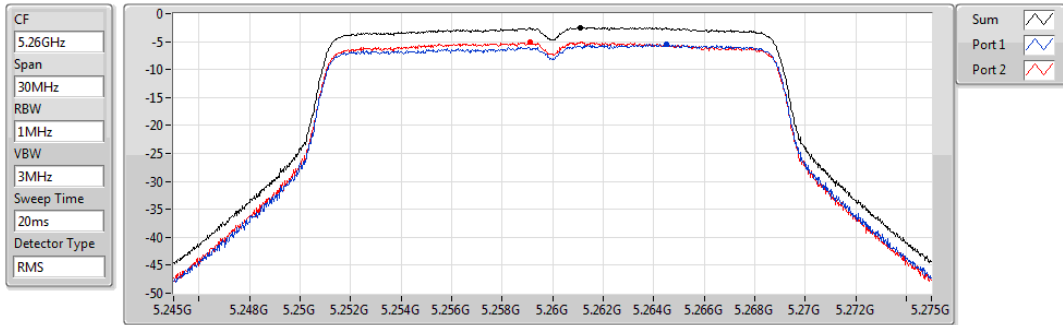


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5260MHz

27/08/2019



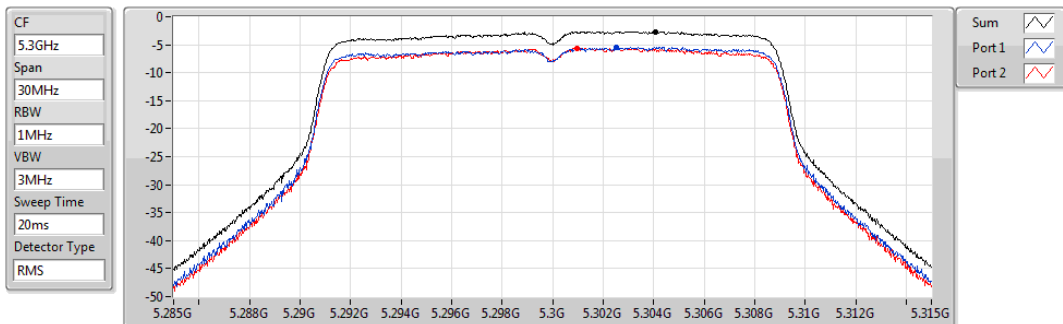
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.47	-2.47	-5.43	-5.07

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5300MHz

27/08/2019



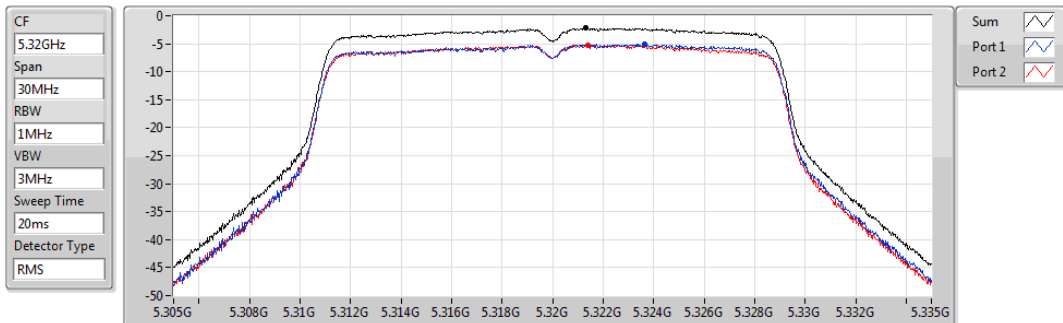
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.66	-2.66	-5.51	-5.57

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5320MHz

27/08/2019



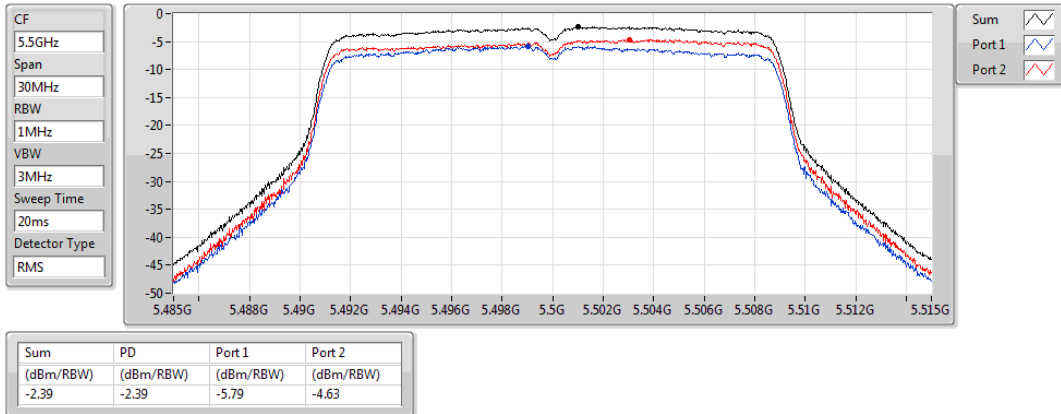
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.22	-2.22	-5.12	-5.26

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5500MHz

27/08/2019

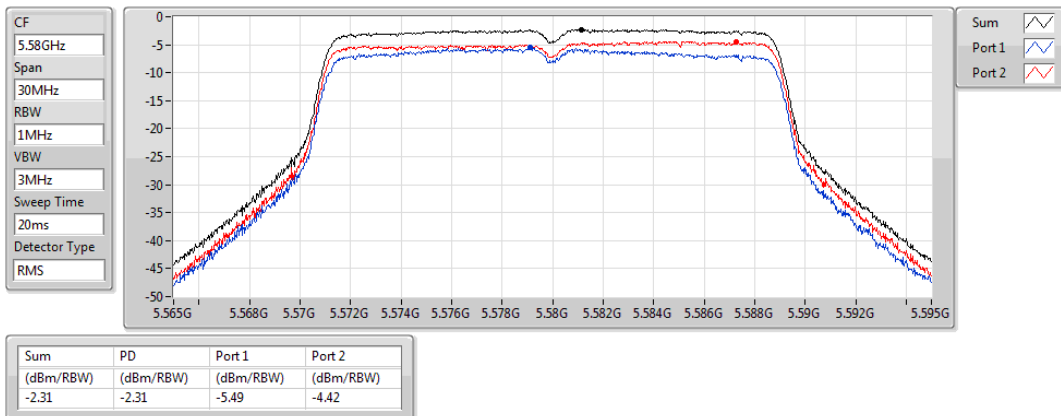


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5580MHz

27/08/2019

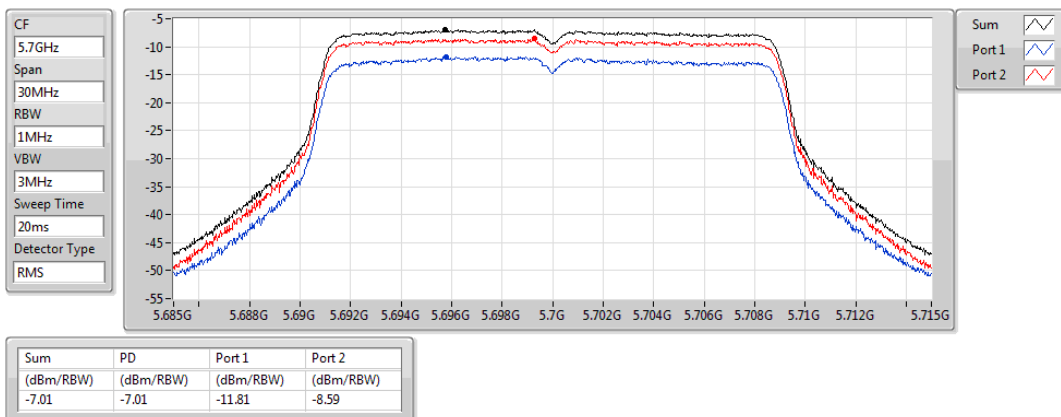


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5700MHz

27/08/2019

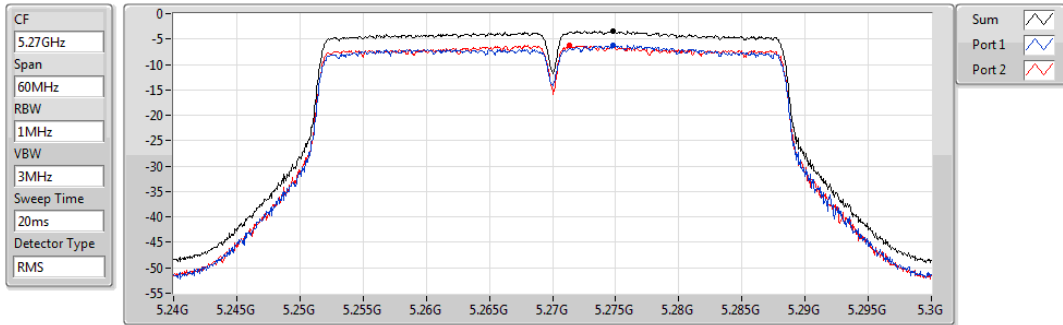


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5270MHz

27/08/2019



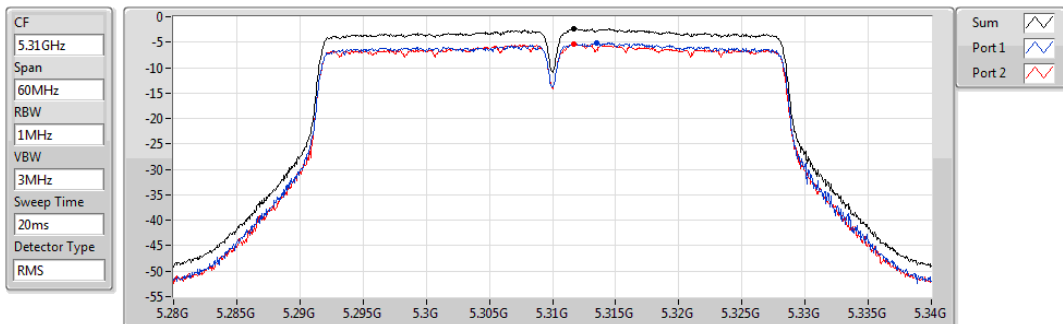
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.41	-3.41	-6.21	-6.25

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5310MHz

27/08/2019



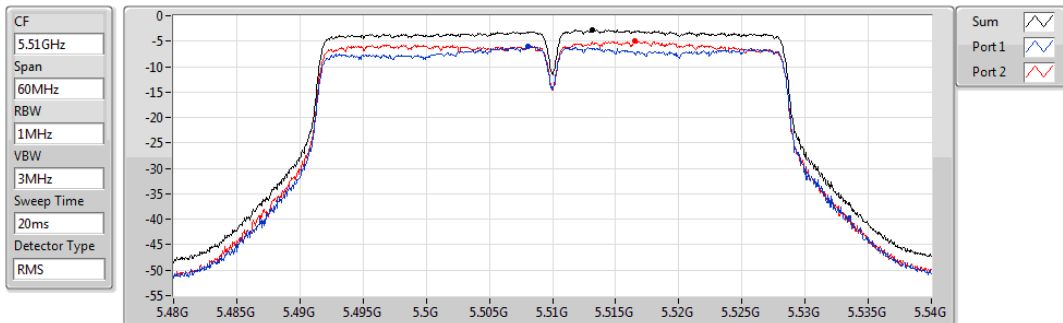
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.39	-2.39	-5.10	-5.46

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5510MHz

27/08/2019



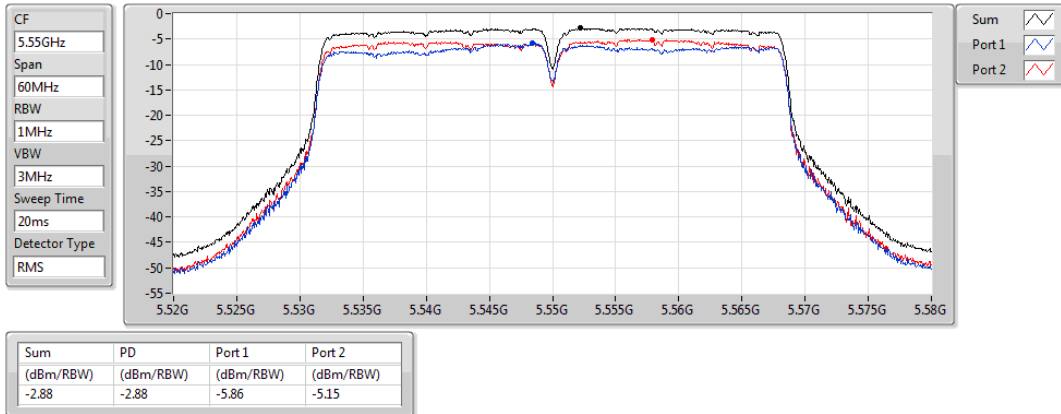
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.77	-2.77	-6.11	-5.03

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5550MHz

27/08/2019

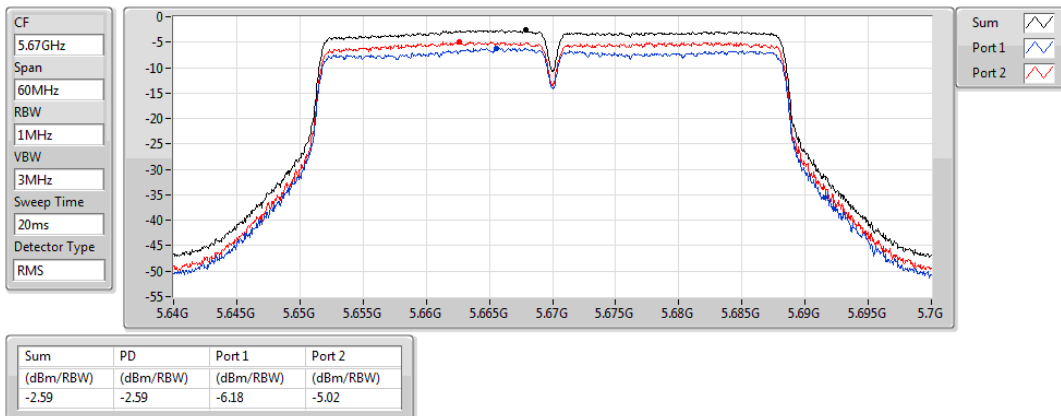


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5670MHz

27/08/2019

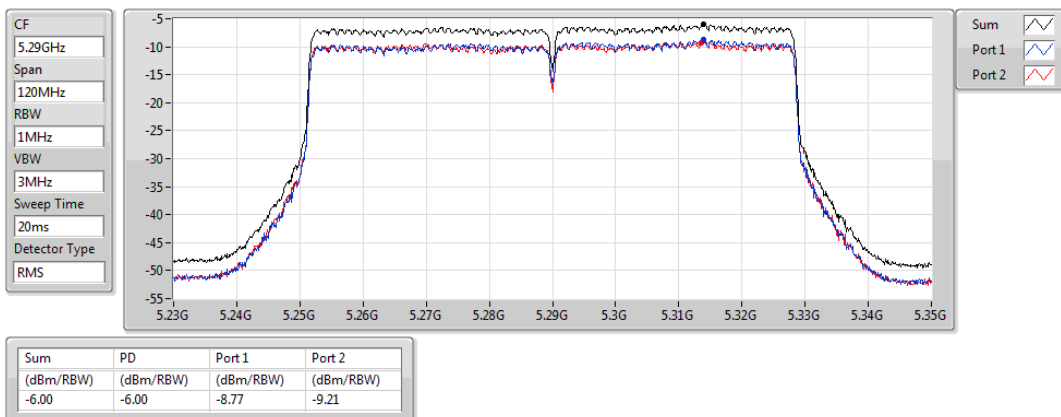


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5290MHz

27/08/2019

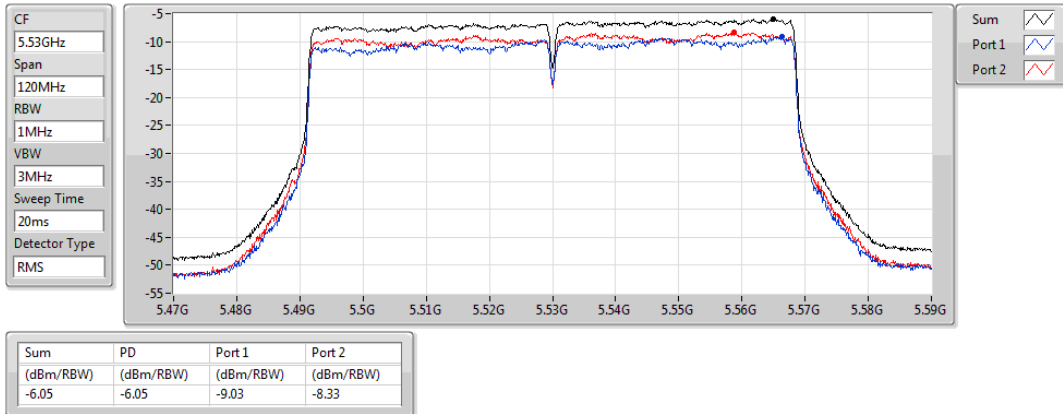


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5530MHz

27/08/2019

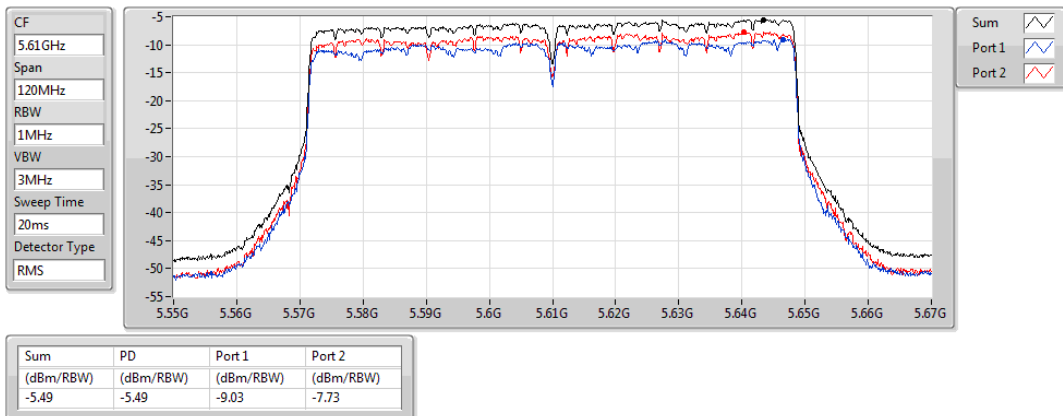


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5610MHz

27/08/2019





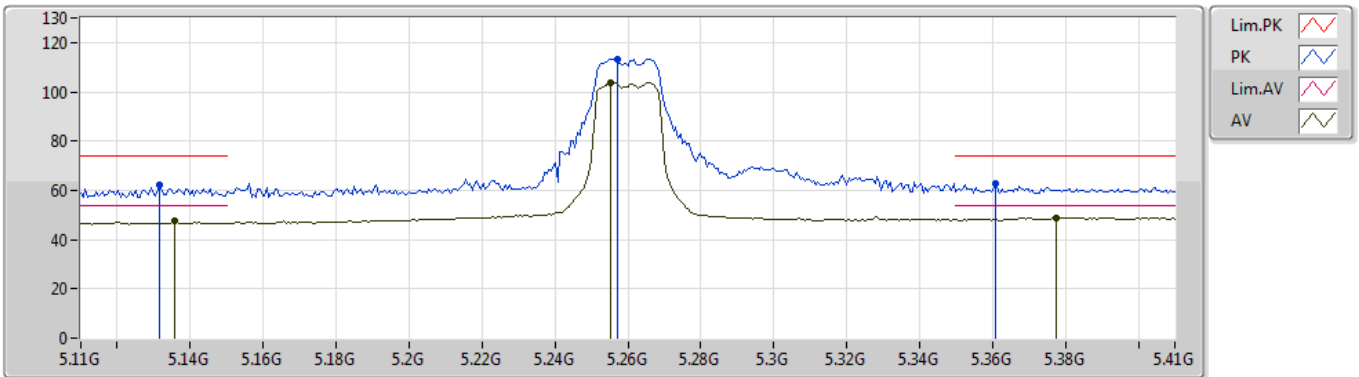
Summary

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	PK	10.59214G	68.17	68.20	-0.03	12.39	3	Horizontal	6	2.00	-

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5260MHz_TX



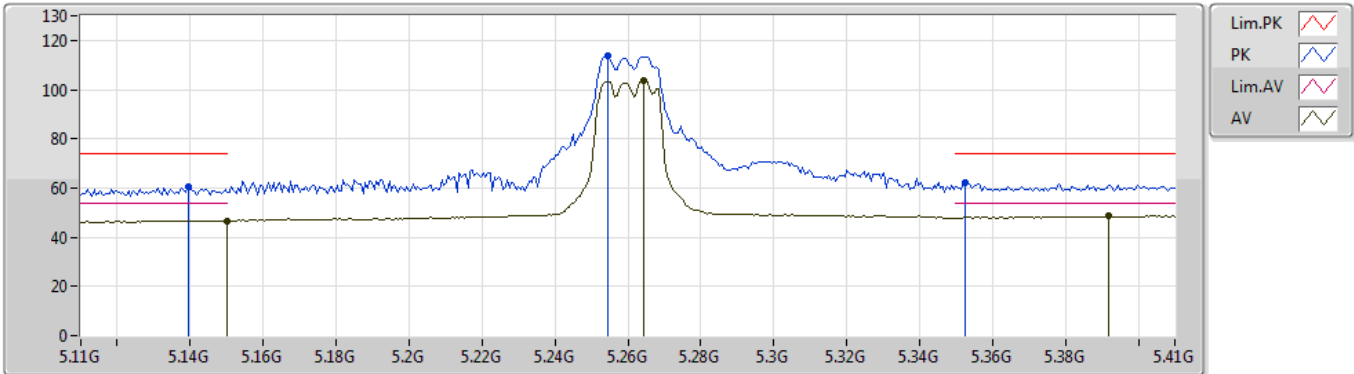
EUT Y_2TX
Setting 6.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1316G	61.92	74.00	-12.08	5.45	3	Vertical	1	1.78	-	56.47			
AV	5.1358G	47.43	54.00	-6.57	5.47	3	Vertical	1	1.78	-	41.96			
PK	5.257G	113.35	Inf	-Inf	5.72	3	Vertical	1	1.78	-	107.63			
AV	5.2552G	103.86	Inf	-Inf	5.72	3	Vertical	1	1.78	-	98.14			
PK	5.3608G	62.51	74.00	-11.49	5.82	3	Vertical	1	1.78	-	56.69			
AV	5.3776G	48.88	54.00	-5.12	5.83	3	Vertical	1	1.78	-	43.05			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5260MHz_TX



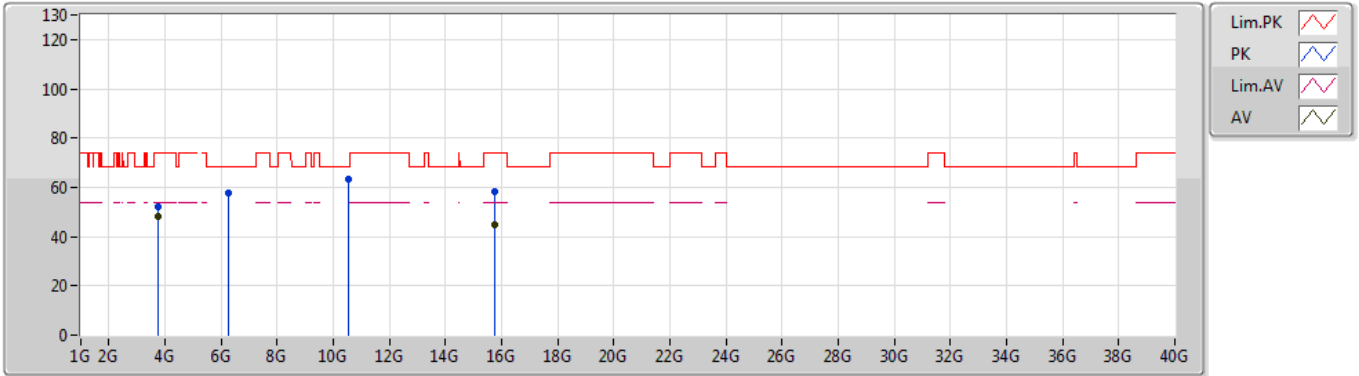
EUT V_2TX
Setting 6.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1394G	60.35	74.00	-13.65	5.47	3	Horizontal	3	1.89	-	54.88
AV	5.15G	46.75	54.00	-7.25	5.50	3	Horizontal	3	1.89	-	41.25
PK	5.2546G	113.69	Inf	-Inf	5.72	3	Horizontal	3	1.89	-	107.97
AV	5.2642G	103.76	Inf	-Inf	5.74	3	Horizontal	3	1.89	-	98.02
PK	5.3524G	62.05	74.00	-11.95	5.81	3	Horizontal	3	1.89	-	56.24
AV	5.392G	48.73	54.00	-5.27	5.83	3	Horizontal	3	1.89	-	42.90

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5260MHz_TX



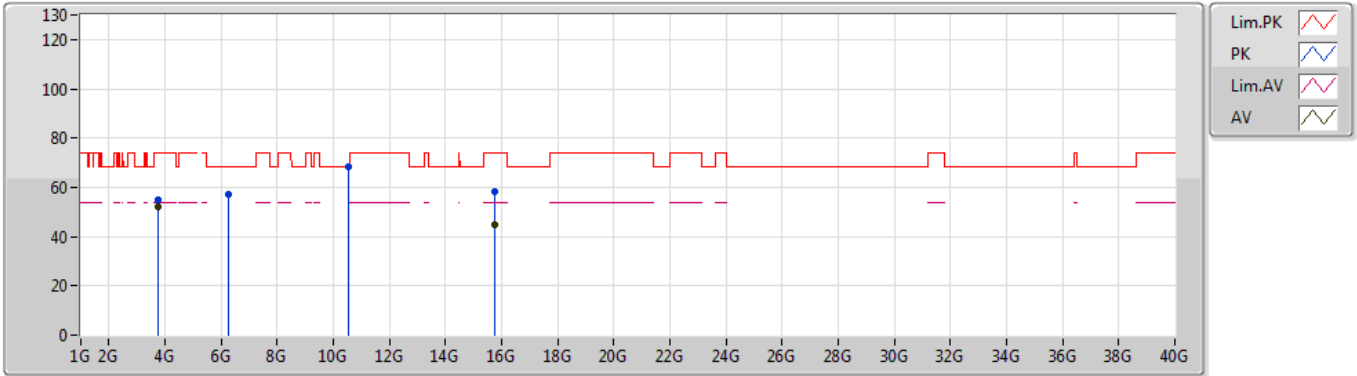
EUT Y_2TX
Setting 6.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	3.75004G	52.12	74.00	-21.88	2.65	3	Vertical	349	1.65	-	49.47			
AV	3.74999G	48.31	54.00	-5.69	2.66	3	Vertical	349	1.65	-	45.65			
PK	6.24992G	57.61	68.20	-10.59	6.69	3	Vertical	13	1.59	-	50.92			
PK	10.52236G	63.19	68.20	-5.01	12.33	3	Vertical	3	1.86	-	50.86			
PK	15.7662G	58.36	74.00	-15.64	13.58	3	Vertical	330	1.50	-	44.78			
AV	15.764G	44.56	54.00	-9.44	13.60	3	Vertical	330	1.50	-	30.96			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5260MHz_TX



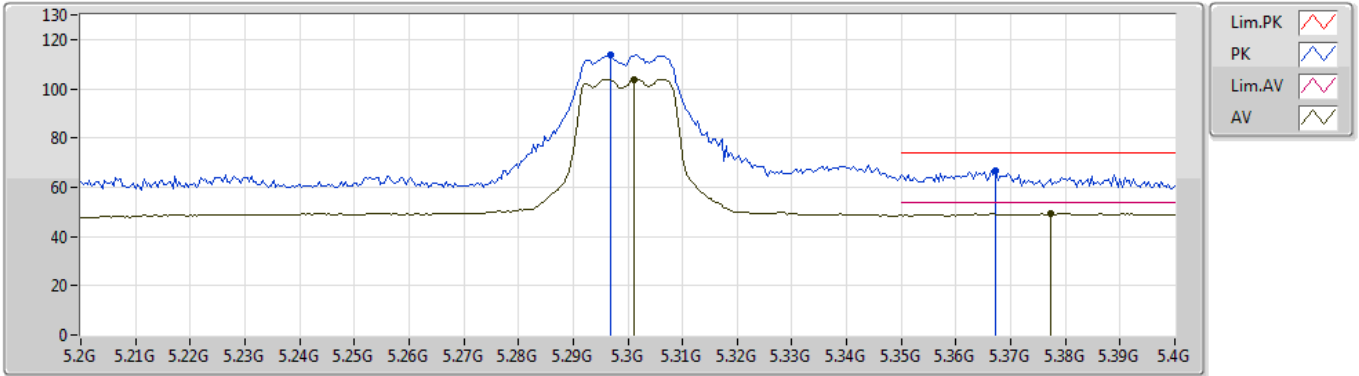
EUT Y_2TX
Setting 6.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	3.74998G	54.84	74.00	-19.16	2.66	3	Horizontal	16	1.61	-	52.18			
AV	3.74999G	51.88	54.00	-2.12	2.66	3	Horizontal	16	1.61	-	49.22			
PK	6.24989G	57.24	68.20	-10.96	6.69	3	Horizontal	80	1.62	-	50.55			
PK	10.52244G	68.13	68.20	-0.07	12.33	3	Horizontal	6	2.00	-	55.80			
PK	15.7748G	58.51	74.00	-15.49	13.56	3	Horizontal	355	1.50	-	44.95			
AV	15.7634G	44.73	54.00	-9.27	13.60	3	Horizontal	355	1.50	-	31.13			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5300MHz_TX



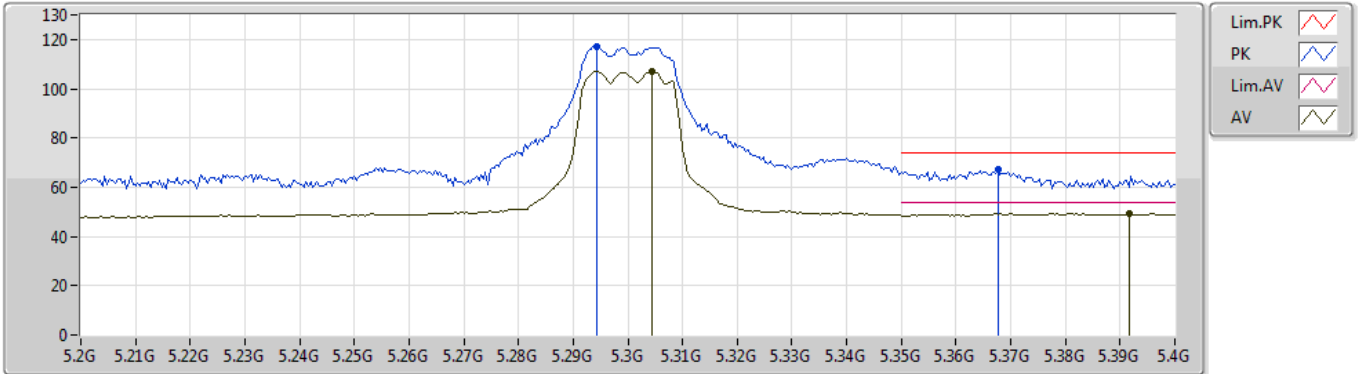
EUT Y_2TX
Setting 8.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.2968G	113.78	Inf	-Inf	5.78	3	Vertical	1	1.90	-	108.00			
AV	5.3012G	103.91	Inf	-Inf	5.79	3	Vertical	1	1.90	-	98.12			
PK	5.3672G	66.86	74.00	-7.14	5.82	3	Vertical	1	1.90	-	61.04			
AV	5.3772G	49.39	54.00	-4.61	5.83	3	Vertical	1	1.90	-	43.56			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5300MHz_TX



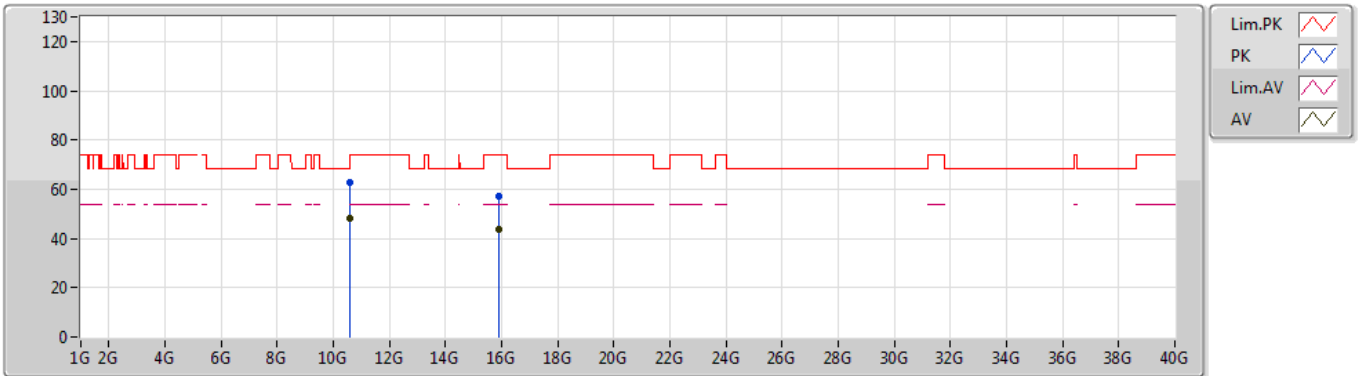
EUT Y_2TX
Setting 8.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.2944G	117.15	Inf	-Inf	5.78	3	Horizontal	2	1.87	-	111.37			
AV	5.3044G	107.19	Inf	-Inf	5.79	3	Horizontal	2	1.87	-	101.40			
PK	5.3676G	67.11	74.00	-6.89	5.82	3	Horizontal	2	1.87	-	61.29			
AV	5.3916G	49.33	54.00	-4.67	5.83	3	Horizontal	2	1.87	-	43.50			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5300MHz_TX



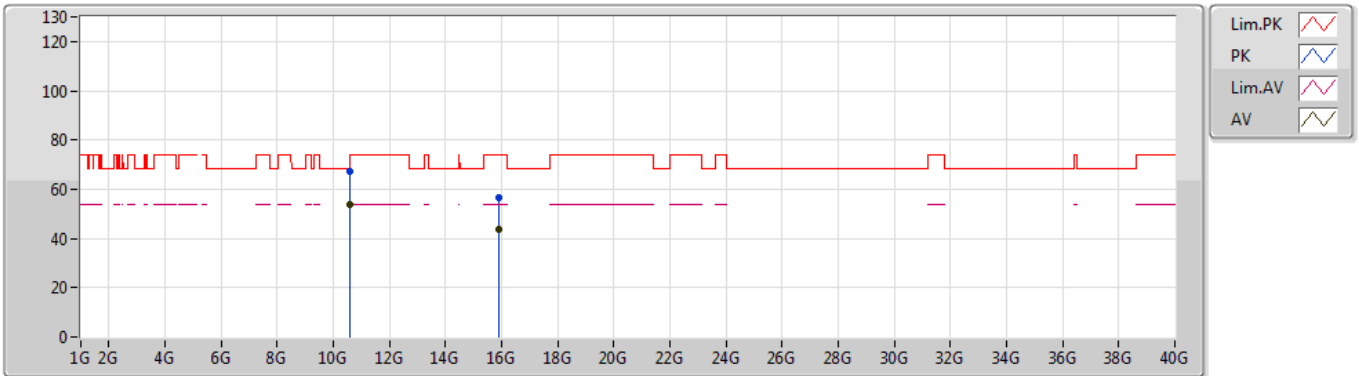
EUT Y_2TX
Setting 8.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.60222G	62.68	74.00	-11.32	12.40	3	Vertical	2	1.87	-	50.28			
AV	10.60228G	48.44	54.00	-5.56	12.40	3	Vertical	2	1.87	-	36.04			
PK	15.90834G	56.88	74.00	-17.12	13.06	3	Vertical	119	1.45	-	43.82			
AV	15.9G	43.66	54.00	-10.34	13.10	3	Vertical	119	1.45	-	30.56			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5300MHz_TX



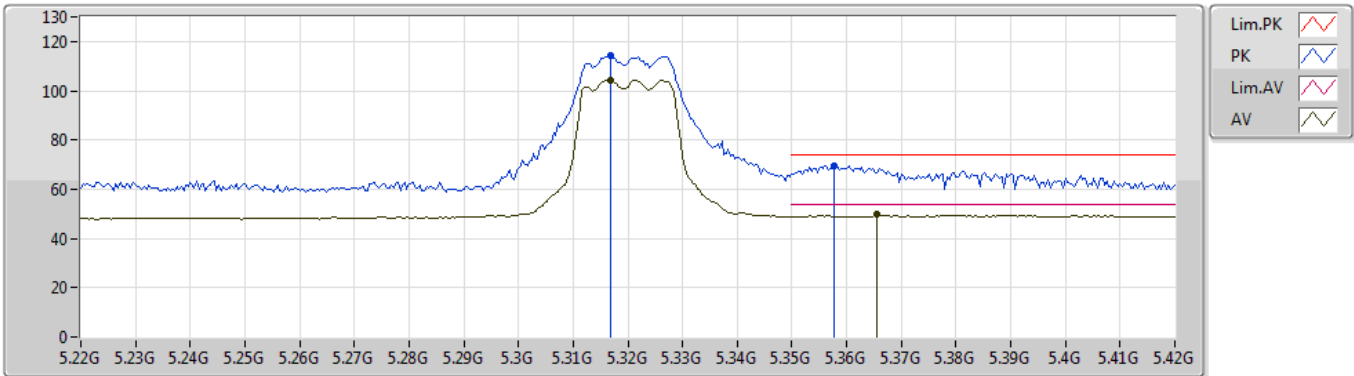
EUT Y_2TX
Setting 8.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.6024G	67.49	74.00	-6.51	12.40	3	Horizontal	5	1.97	-	55.09			
AV	10.60228G	53.73	54.00	-0.27	12.40	3	Horizontal	5	1.97	-	41.33			
PK	15.90996G	56.84	74.00	-17.16	13.06	3	Horizontal	314	1.40	-	43.78			
AV	15.89052G	43.82	54.00	-10.18	13.14	3	Horizontal	314	1.40	-	30.68			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5320MHz_TX



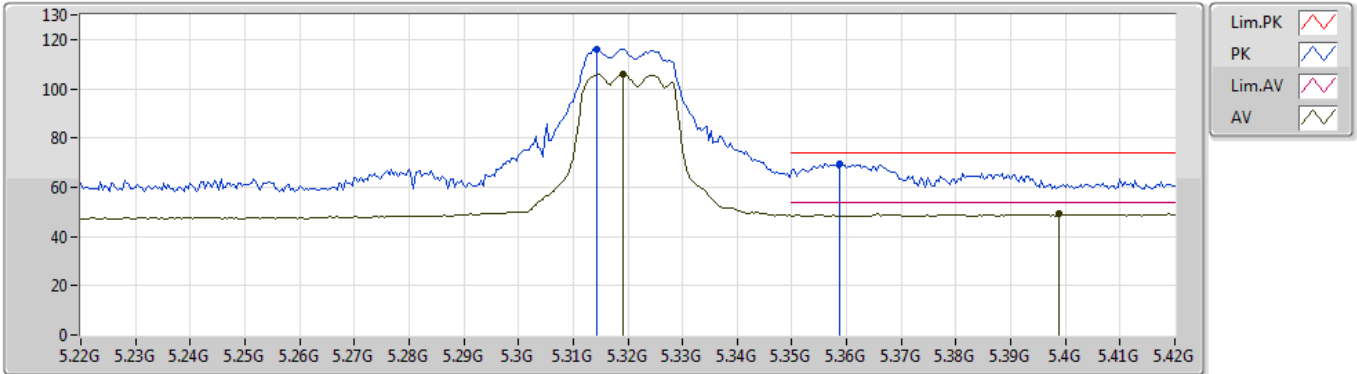
EUT Y_2TX
Setting 9
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.3168G	114.51	Inf	-Inf	5.80	3	Vertical	3	1.88	-	108.71			
AV	5.3168G	104.49	Inf	-Inf	5.80	3	Vertical	3	1.88	-	98.69			
PK	5.3576G	69.48	74.00	-4.52	5.82	3	Vertical	3	1.88	-	63.66			
AV	5.3656G	49.62	54.00	-4.38	5.82	3	Vertical	3	1.88	-	43.80			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5320MHz_TX



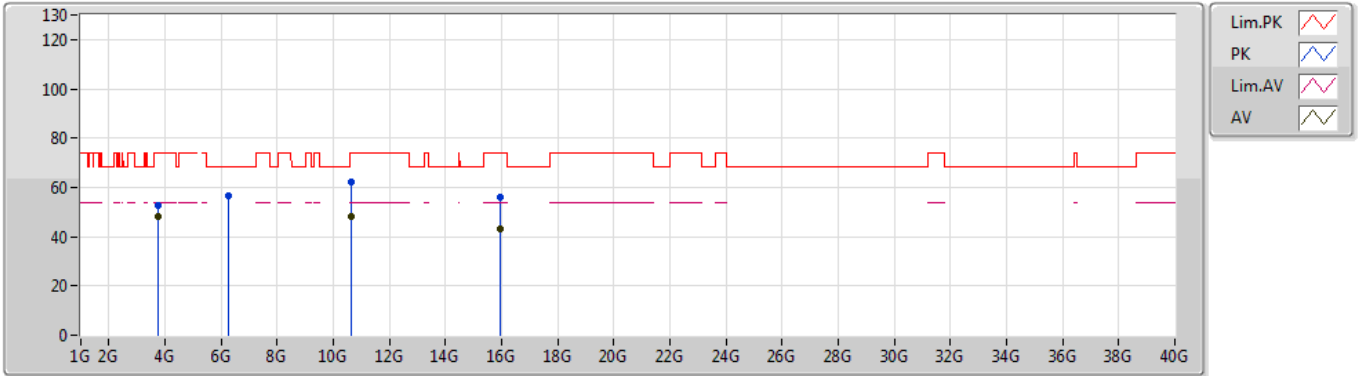
EUT Y_2TX
Setting 9
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.3144G	116.11	Inf	-Inf	5.79	3	Horizontal	1	1.86	-	110.32			
AV	5.3192G	106.18	Inf	-Inf	5.80	3	Horizontal	1	1.86	-	100.38			
PK	5.3588G	69.52	74.00	-4.48	5.82	3	Horizontal	1	1.86	-	63.70			
AV	5.3988G	49.04	54.00	-4.96	5.84	3	Horizontal	1	1.86	-	43.20			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5320MHz_TX



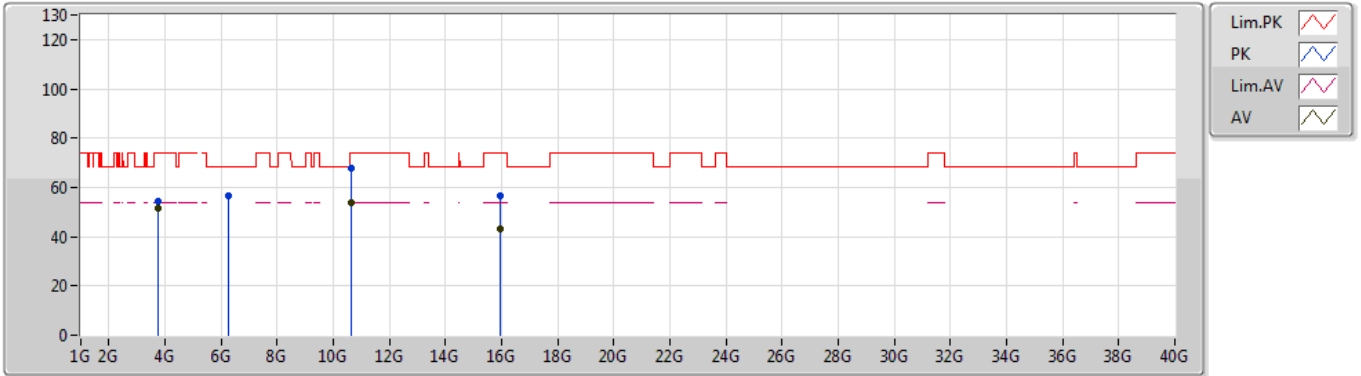
EUT Y_2TX
Setting 9
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	3.75009G	52.55	74.00	-21.45	2.65	3	Vertical	350	1.65	-	49.90			
AV	3.75G	48.16	54.00	-5.84	2.66	3	Vertical	350	1.65	-	45.50			
PK	6.24999G	56.84	68.20	-11.36	6.69	3	Vertical	11	1.50	-	50.15			
PK	10.64208G	62.32	74.00	-11.68	12.44	3	Vertical	1	1.50	-	49.88			
AV	10.64224G	47.99	54.00	-6.01	12.44	3	Vertical	1	1.50	-	35.55			
PK	15.96024G	56.24	74.00	-17.76	12.88	3	Vertical	242	2.18	-	43.36			
AV	15.96028G	43.13	54.00	-10.87	12.88	3	Vertical	242	2.18	-	30.25			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5320MHz_TX



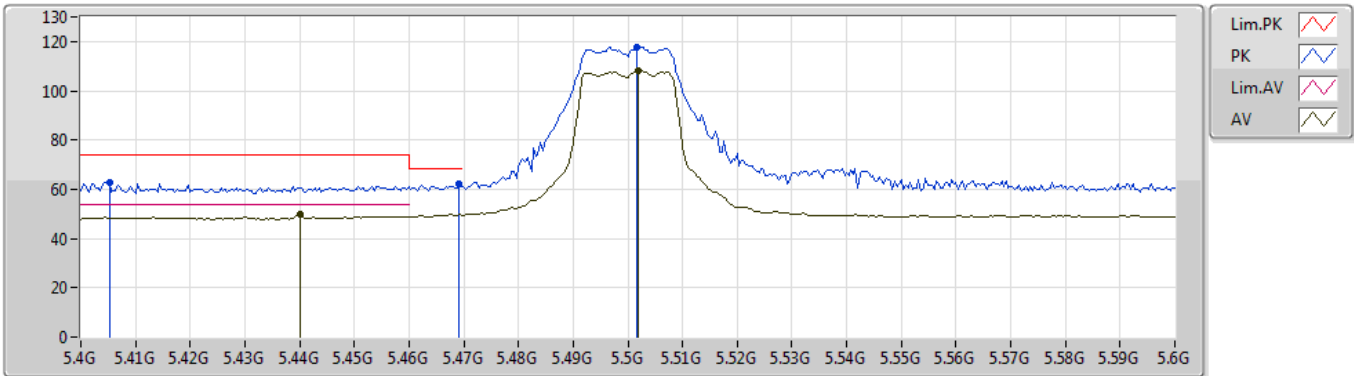
EUT Y_2TX
Setting 9
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	3.74997G	54.42	74.00	-19.58	2.66	3	Horizontal	16	1.60	-	51.76			
AV	3.75G	51.31	54.00	-2.69	2.65	3	Horizontal	16	1.60	-	48.66			
PK	6.24989G	56.55	68.20	-11.65	6.69	3	Horizontal	79	1.62	-	49.86			
PK	10.64246G	67.77	74.00	-6.23	12.44	3	Horizontal	5	1.96	-	55.33			
AV	10.64222G	53.80	54.00	-0.20	12.44	3	Horizontal	5	1.96	-	41.36			
PK	15.96964G	56.51	74.00	-17.49	12.85	3	Horizontal	326	1.33	-	43.66			
AV	15.9672G	43.04	54.00	-10.96	12.86	3	Horizontal	326	1.33	-	30.18			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5500MHz_TX



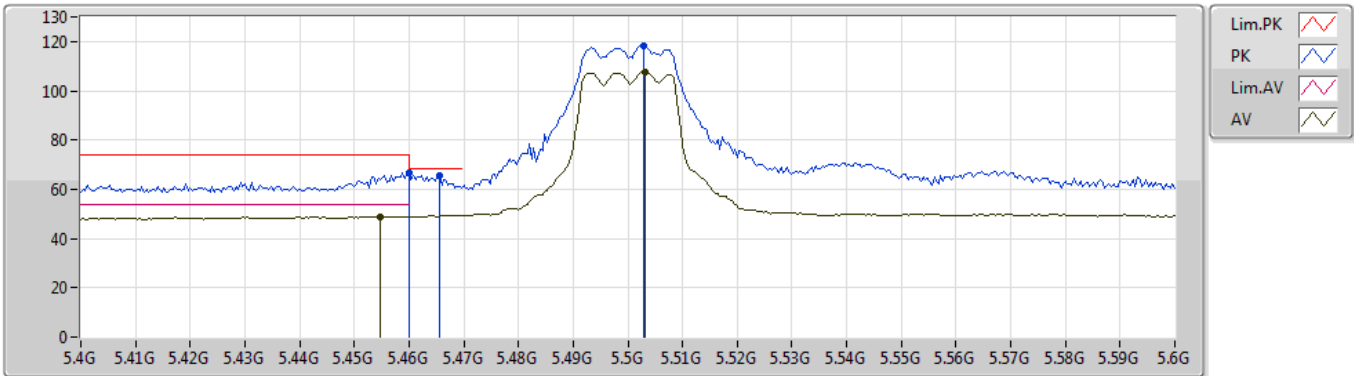
EUT Y_2TX
Setting 11.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.4052G	62.65	74.00	-11.35	5.86	3	Vertical	3	1.70	-	56.79			
AV	5.44G	50.09	54.00	-3.91	5.95	3	Vertical	3	1.70	-	44.14			
PK	5.4692G	62.24	68.20	-5.96	6.03	3	Vertical	3	1.70	-	56.21			
PK	5.5016G	117.75	Inf	-Inf	6.12	3	Vertical	3	1.70	-	111.63			
AV	5.502G	108.02	Inf	-Inf	6.12	3	Vertical	3	1.70	-	101.90			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5500MHz_TX



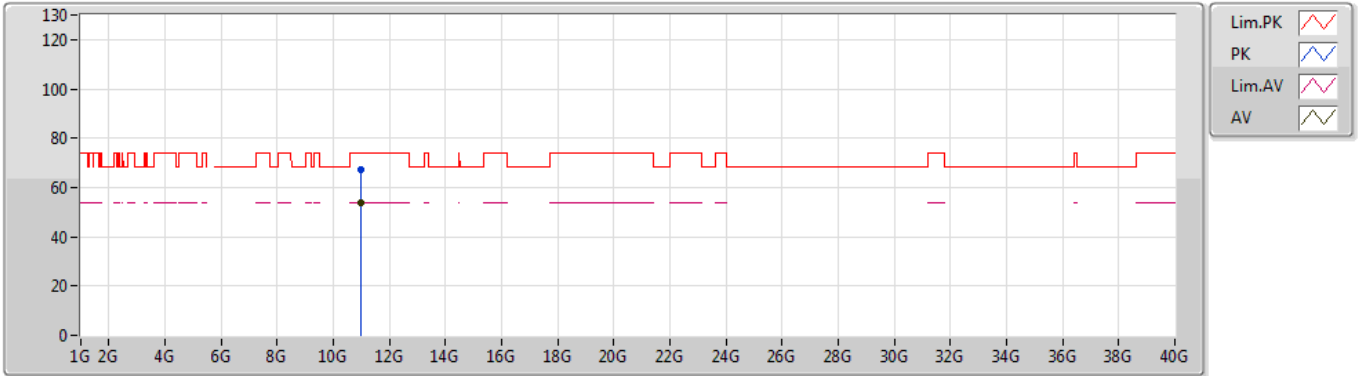
EUT Y_2TX
Setting 11.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.46G	66.82	74.00	-7.18	6.01	3	Horizontal	3	1.90	-	60.81			
AV	5.4548G	49.01	54.00	-4.99	5.99	3	Horizontal	3	1.90	-	43.02			
PK	5.4656G	65.60	68.20	-2.60	6.03	3	Horizontal	3	1.90	-	59.57			
PK	5.5028G	118.45	Inf	-Inf	6.12	3	Horizontal	3	1.90	-	112.33			
AV	5.5032G	107.70	Inf	-Inf	6.13	3	Horizontal	3	1.90	-	101.57			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5500MHz_TX



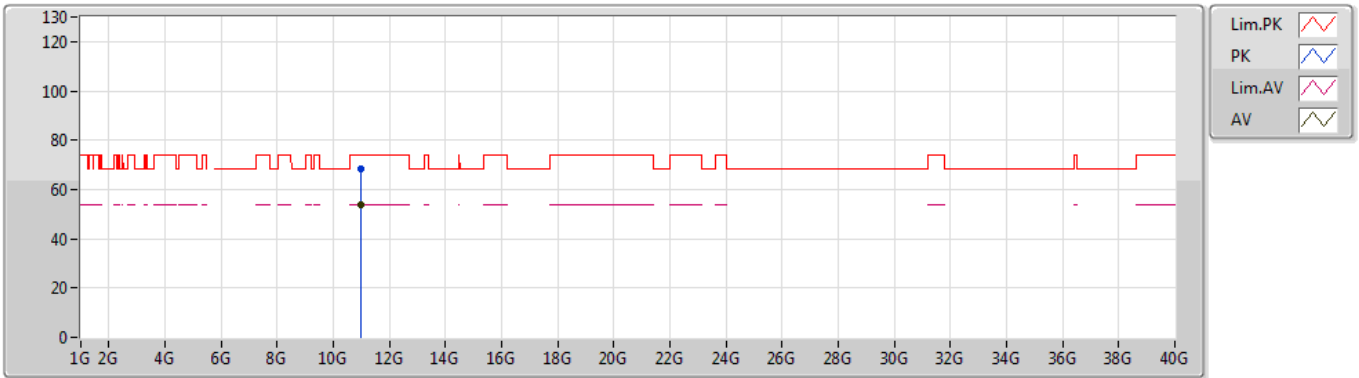
EUT Y_2TX
Setting 11.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.00068G	66.99	74.00	-7.01	12.74	3	Vertical	3	1.61	-	54.25			
AV	11.00028G	53.54	54.00	-0.46	12.74	3	Vertical	3	1.61	-	40.80			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5500MHz_TX



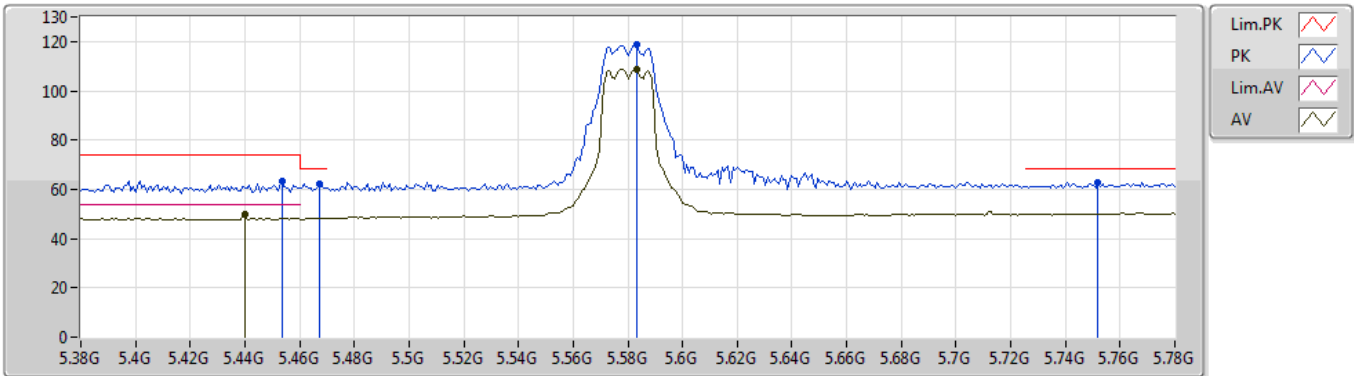
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Setting 11.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.99984G	68.18	74.00	-5.82	12.74	3	Horizontal	358	1.80	-	55.44			
AV	10.99996G	53.93	54.00	-0.07	12.74	3	Horizontal	358	1.80	-	41.19			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5580MHz_TX



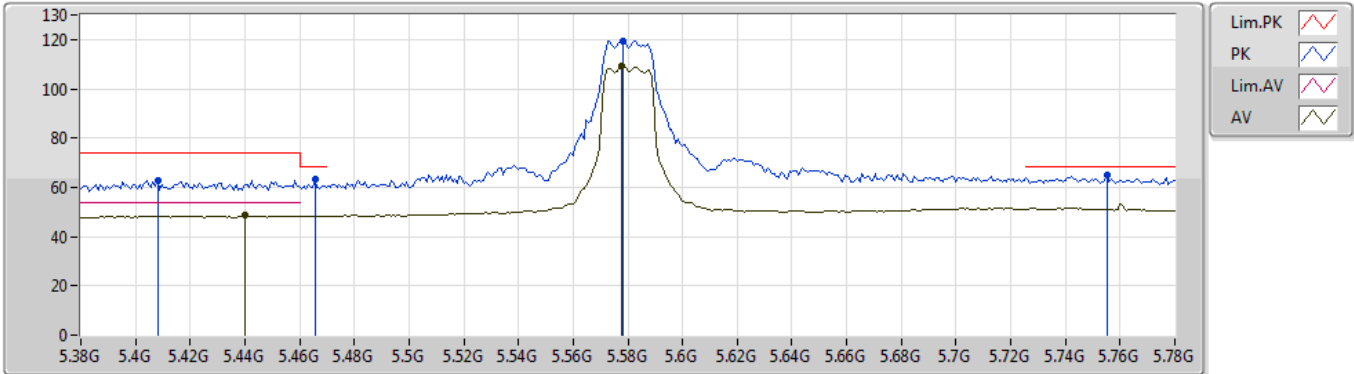
EUT Y_2TX
Setting 12
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.4536G	63.42	74.00	-10.58	5.99	3	Vertical	4	1.73	-	57.43			
AV	5.44G	49.72	54.00	-4.28	5.95	3	Vertical	4	1.73	-	43.77			
PK	5.4672G	62.33	68.20	-5.87	6.03	3	Vertical	4	1.73	-	56.30			
PK	5.5832G	118.81	Inf	-Inf	6.16	3	Vertical	4	1.73	-	112.65			
AV	5.5832G	108.84	Inf	-Inf	6.16	3	Vertical	4	1.73	-	102.68			
PK	5.752G	62.68	68.20	-5.52	5.85	3	Vertical	4	1.73	-	56.83			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5580MHz_TX



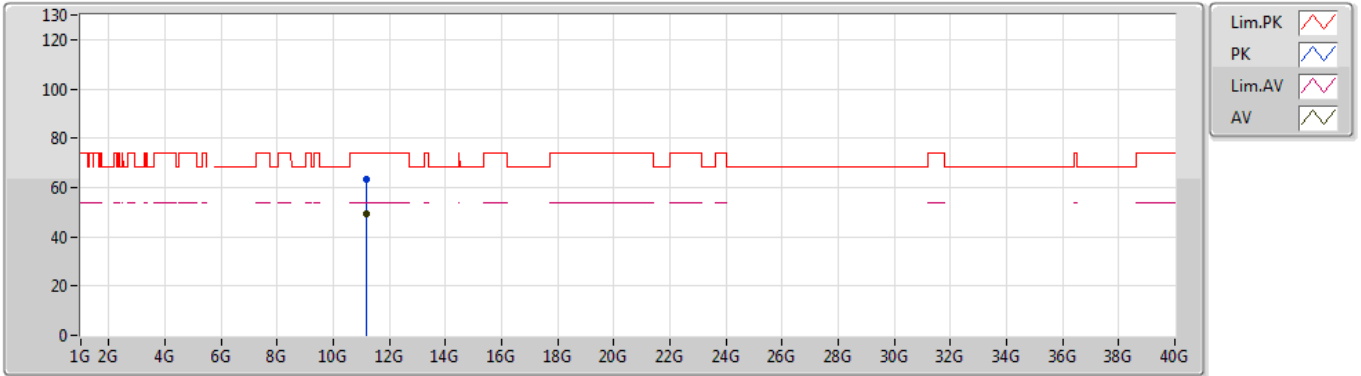
EUT Y_2TX
Setting 12
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.408G	62.72	74.00	-11.28	5.86	3	Horizontal	1	1.82	-	56.86			
PK	5.4656G	63.18	68.20	-5.02	6.03	3	Horizontal	1	1.82	-	57.15			
AV	5.44G	48.98	54.00	-5.02	5.95	3	Horizontal	1	1.82	-	43.03			
PK	5.5784G	119.36	Inf	-Inf	6.16	3	Horizontal	1	1.82	-	113.20			
AV	5.5776G	109.09	Inf	-Inf	6.15	3	Horizontal	1	1.82	-	102.94			
PK	5.7552G	65.05	68.20	-3.15	5.85	3	Horizontal	1	1.82	-	59.20			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5580MHz_TX



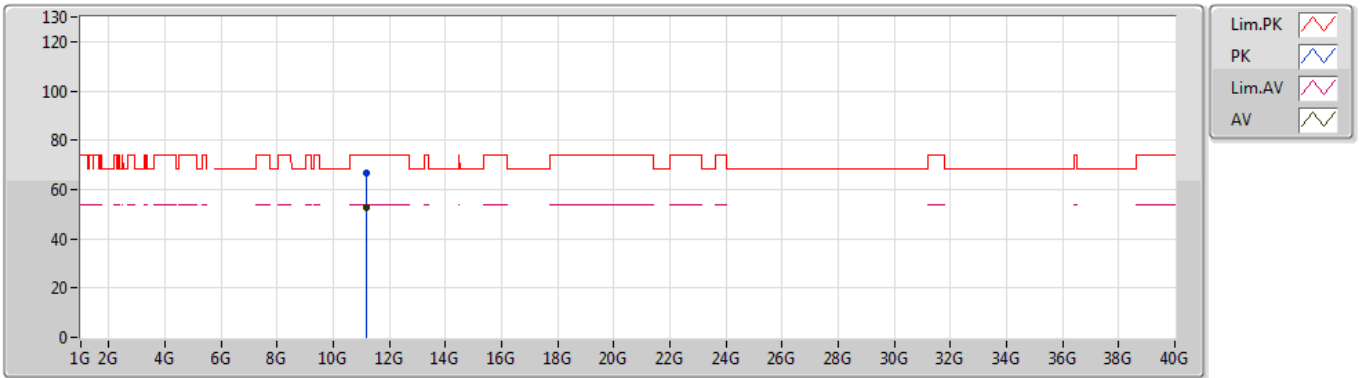
EUT Y_2TX
Setting 12
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.16264G	63.26	74.00	-10.74	12.82	3	Vertical	3	1.52	-	50.44			
AV	11.16304G	49.24	54.00	-4.76	12.82	3	Vertical	3	1.52	-	36.42			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5580MHz_TX



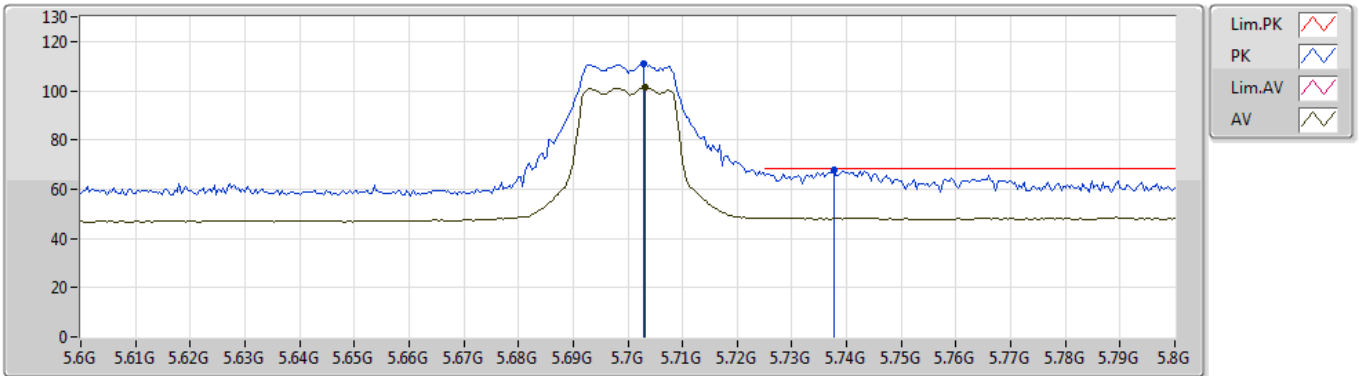
EUT Y_2TX
Setting 12
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.16248G	66.67	74.00	-7.33	12.82	3	Horizontal	6	1.36	-	53.85			
AV	11.15792G	52.45	54.00	-1.55	12.82	3	Horizontal	6	1.36	-	39.63			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5700MHz_TX



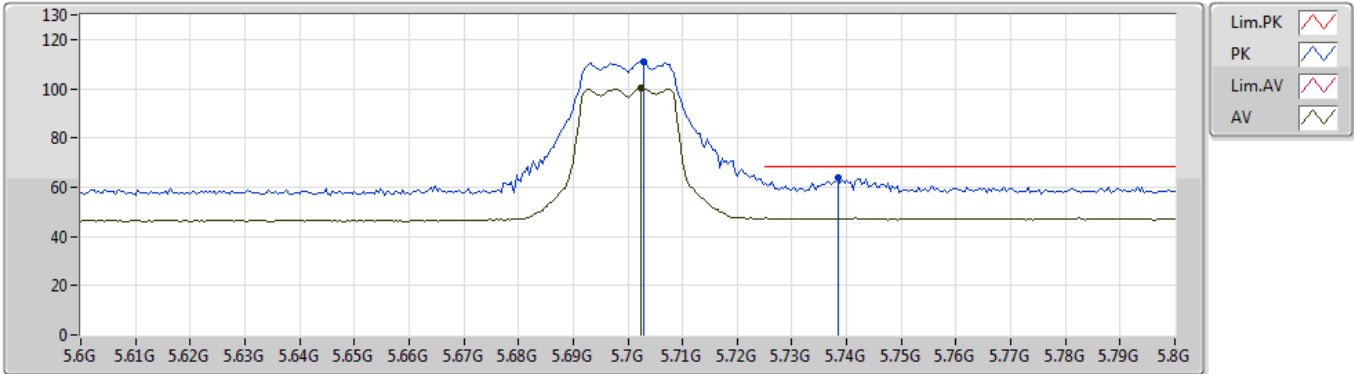
EUT V_2TX
Setting 2.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.7028G	110.99	Inf	-Inf	5.93	3	Vertical	2	1.75	-	105.06			
AV	5.7032G	101.38	Inf	-Inf	5.93	3	Vertical	2	1.75	-	95.45			
PK	5.7376G	67.55	68.20	-0.65	5.87	3	Vertical	2	1.75	-	61.68			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5700MHz_TX



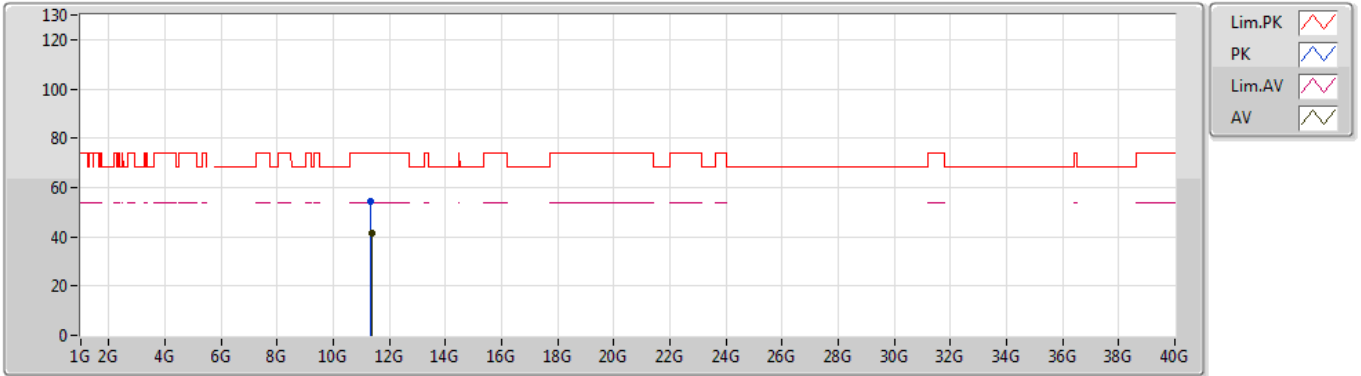
EUT V_2TX
Setting 2.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.7028G	111.17	Inf	-Inf	5.93	3	Horizontal	1	1.72	-	105.24			
AV	5.7024G	100.33	Inf	-Inf	5.93	3	Horizontal	1	1.72	-	94.40			
PK	5.7384G	63.69	68.20	-4.51	5.87	3	Horizontal	1	1.72	-	57.82			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5700MHz_TX



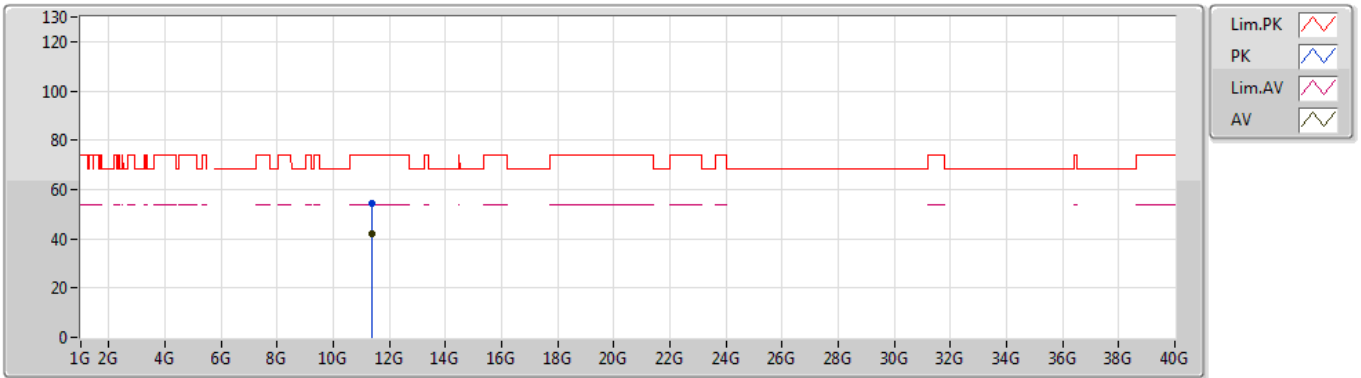
EUT Y_2TX
Setting 2.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.3484G	54.53	74.00	-19.47	12.92	3	Vertical	3	1.88	-	41.61			
AV	11.3976G	41.45	54.00	-12.55	12.96	3	Vertical	3	1.88	-	28.49			

802.11a_Nss1,(6Mbps)_2TX

24/08/2019

5700MHz_TX



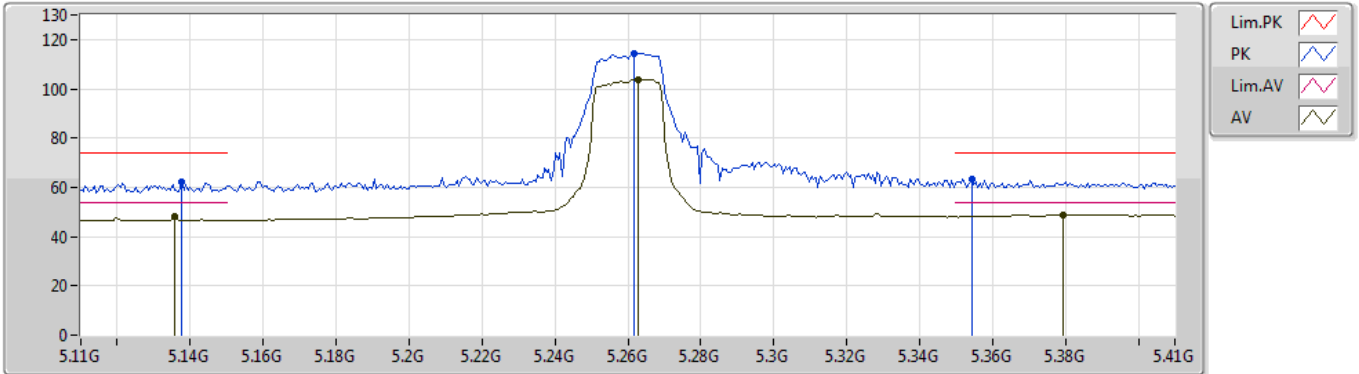
EUT Y_2TX
Setting 2.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.3884G	54.38	74.00	-19.62	12.95	3	Horizontal	5	1.91	-	41.43			
AV	11.3976G	41.80	54.00	-12.20	12.96	3	Horizontal	5	1.91	-	28.84			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5260MHz_TX



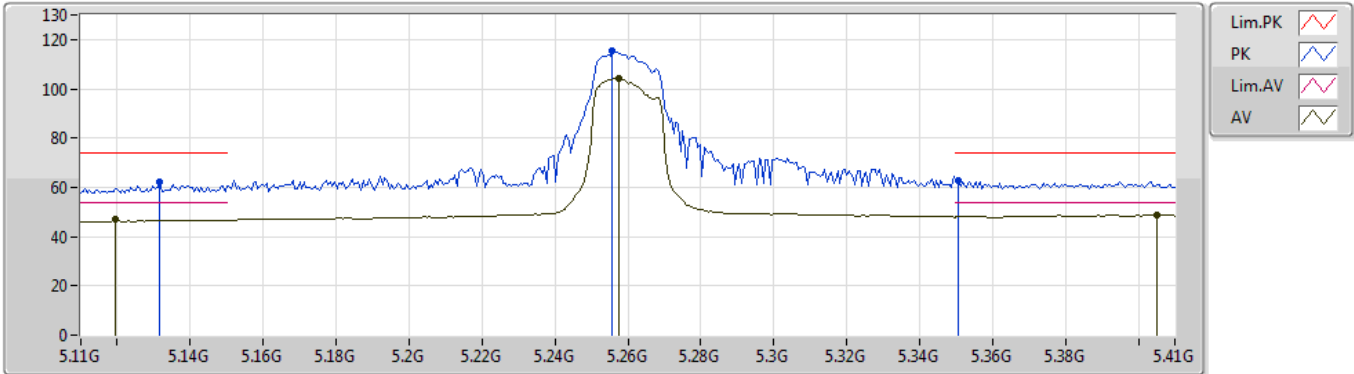
EUT Y_2TX
Setting 6.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1376G	62.13	74.00	-11.87	5.47	3	Vertical	2	1.88	-	56.66			
AV	5.1358G	47.97	54.00	-6.03	5.47	3	Vertical	2	1.88	-	42.50			
PK	5.2618G	114.56	Inf	-Inf	5.73	3	Vertical	2	1.88	-	108.83			
AV	5.263G	103.90	Inf	-Inf	5.74	3	Vertical	2	1.88	-	98.16			
PK	5.3542G	63.52	74.00	-10.48	5.81	3	Vertical	2	1.88	-	57.71			
AV	5.3794G	48.91	54.00	-5.09	5.83	3	Vertical	2	1.88	-	43.08			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5260MHz_TX



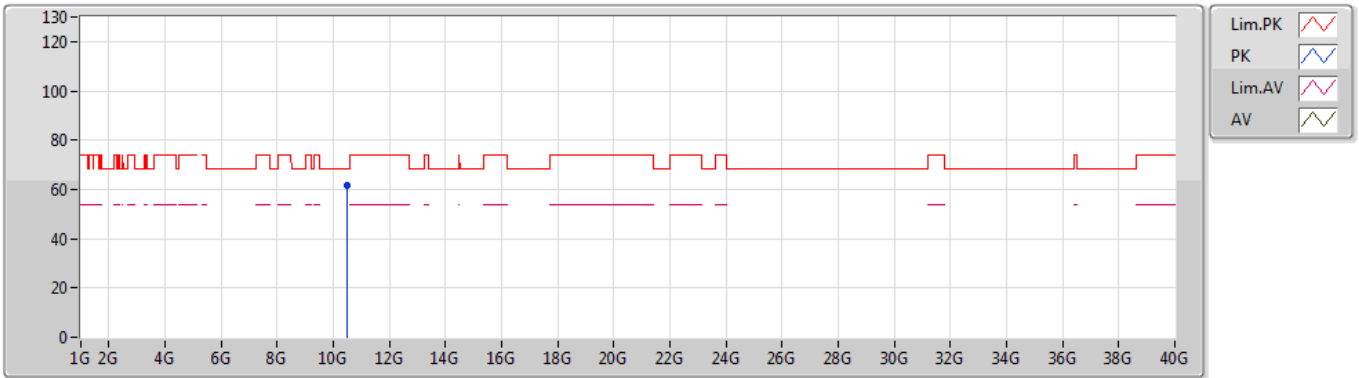
EUT Y_2TX
Setting 6.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1316G	62.18	74.00	-11.82	5.45	3	Horizontal	3	1.90	-	56.73			
AV	5.1196G	46.87	54.00	-7.13	5.42	3	Horizontal	3	1.90	-	41.45			
PK	5.2558G	115.27	Inf	-Inf	5.72	3	Horizontal	3	1.90	-	109.55			
AV	5.2576G	104.19	Inf	-Inf	5.73	3	Horizontal	3	1.90	-	98.46			
PK	5.3506G	62.60	74.00	-11.40	5.81	3	Horizontal	3	1.90	-	56.79			
AV	5.4052G	48.73	54.00	-5.27	5.86	3	Horizontal	3	1.90	-	42.87			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5260MHz_TX



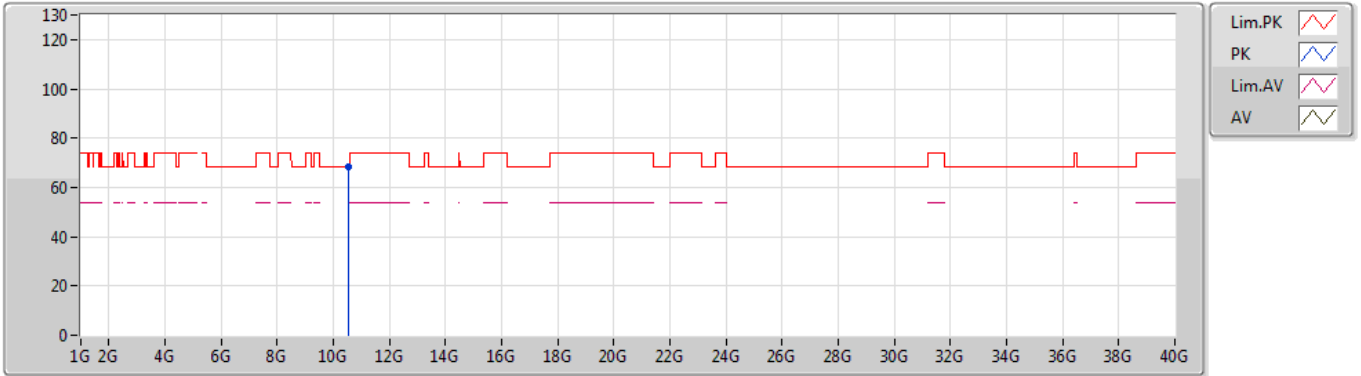
EUT Y_2TX
Setting 6.5
03-W-3
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)			
PK	10.51382G	61.76	68.20	-6.44	12.32	3	Vertical	0	1.54	-	49.44			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5260MHz_TX



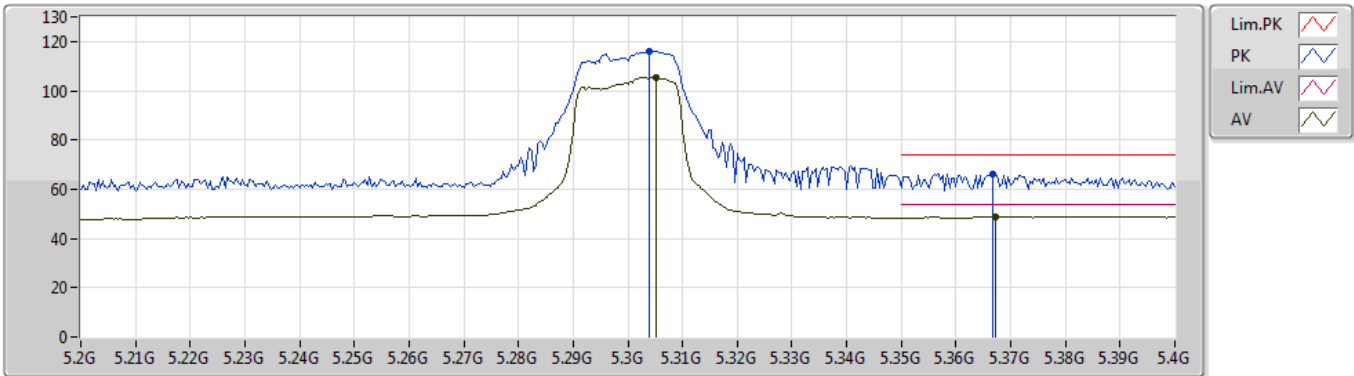
EUT Y_2TX
Setting 6.5
03-W-3
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)			
PK	10.5302G	68.15	68.20	-0.05	12.34	3	Horizontal	6	2.00	-	55.81			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5300MHz_TX



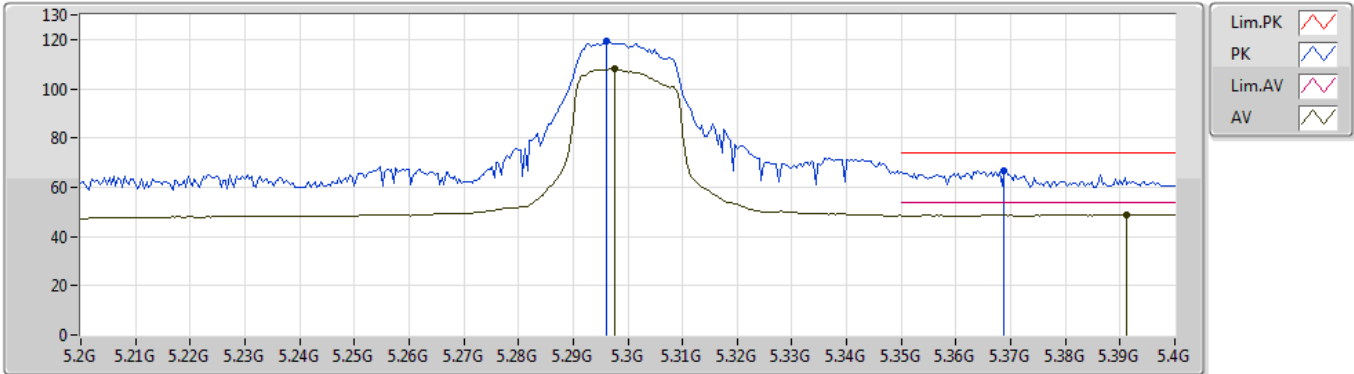
EUT Y_2TX
Setting 10
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.304G	116.19	Inf	-Inf	5.79	3	Vertical	2	1.91	-	110.40			
AV	5.3052G	105.58	Inf	-Inf	5.80	3	Vertical	2	1.91	-	99.78			
PK	5.3668G	66.21	74.00	-7.79	5.82	3	Vertical	2	1.91	-	60.39			
AV	5.3672G	49.00	54.00	-5.00	5.82	3	Vertical	2	1.91	-	43.18			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5300MHz_TX



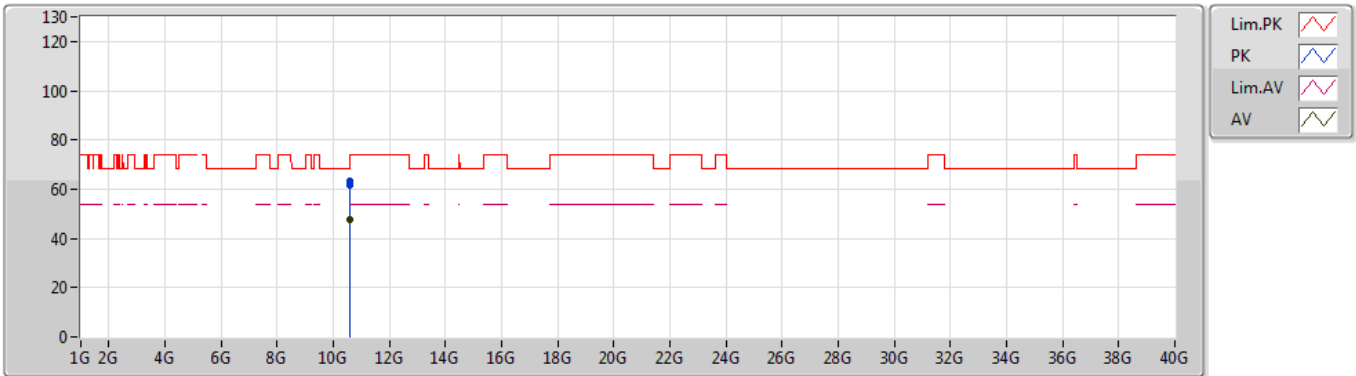
EUT Y_2TX
Setting 10
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.296G	119.22	Inf	-Inf	5.78	3	Horizontal	2	1.90	-	113.44			
AV	5.2976G	108.16	Inf	-Inf	5.79	3	Horizontal	2	1.90	-	102.37			
PK	5.3688G	66.91	74.00	-7.09	5.82	3	Horizontal	2	1.90	-	61.09			
AV	5.3912G	48.86	54.00	-5.14	5.83	3	Horizontal	2	1.90	-	43.03			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5300MHz_TX



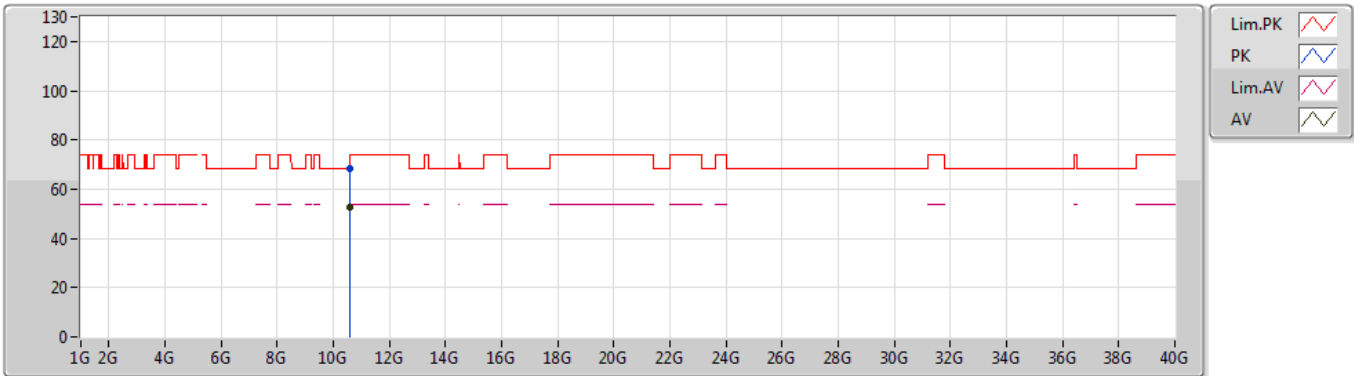
EUT Y_2TX
Setting 10
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.59226G	61.81	68.20	-6.39	12.39	3	Vertical	2	1.87	-	49.42			
PK	10.60864G	63.08	74.00	-10.92	12.40	3	Vertical	2	1.87	-	50.68			
AV	10.60846G	47.43	54.00	-6.57	12.40	3	Vertical	2	1.87	-	35.03			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5300MHz_TX



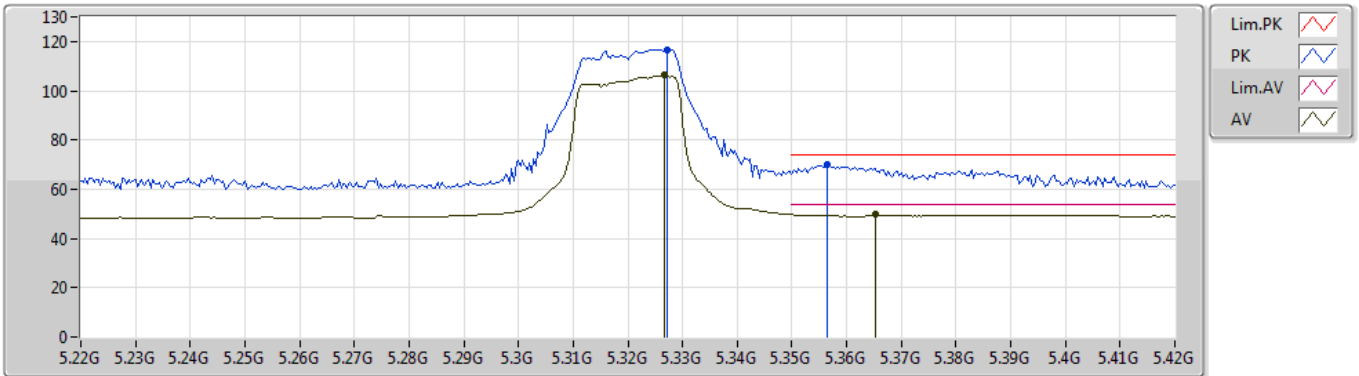
EUT Y_2TX
Setting 10
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.59214G	68.17	68.20	-0.03	12.39	3	Horizontal	6	2.00	-	55.78			
PK	10.61062G	68.43	74.00	-5.57	12.41	3	Horizontal	6	2.00	-	56.02			
AV	10.60858G	52.92	54.00	-1.08	12.40	3	Horizontal	6	2.00	-	40.52			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5320MHz_TX



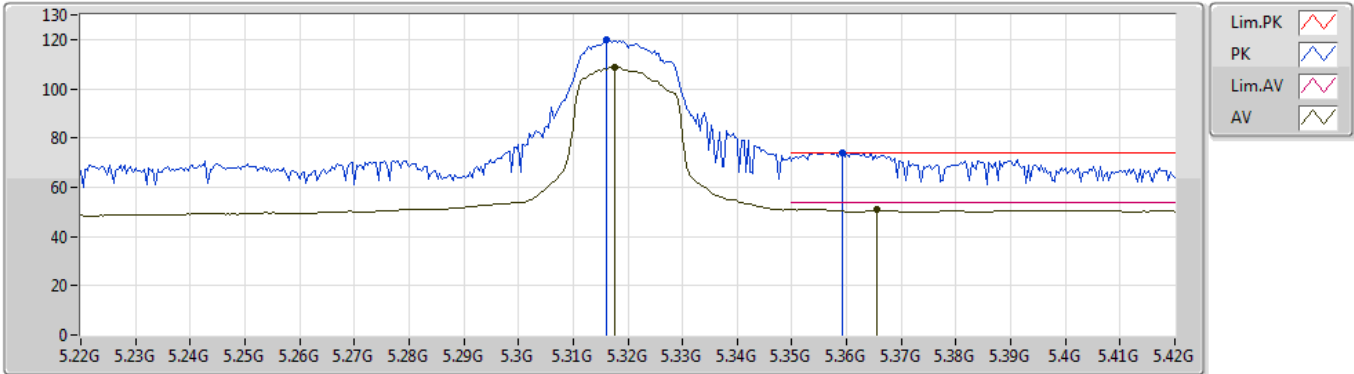
EUT Y_2TX
Setting 11.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.3272G	116.63	Inf	-Inf	5.81	3	Vertical	2	1.87	-	110.82			
AV	5.3268G	106.28	Inf	-Inf	5.81	3	Vertical	2	1.87	-	100.47			
PK	5.3564G	69.77	74.00	-4.23	5.82	3	Vertical	2	1.87	-	63.95			
AV	5.3652G	49.81	54.00	-4.19	5.82	3	Vertical	2	1.87	-	43.99			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5320MHz_TX



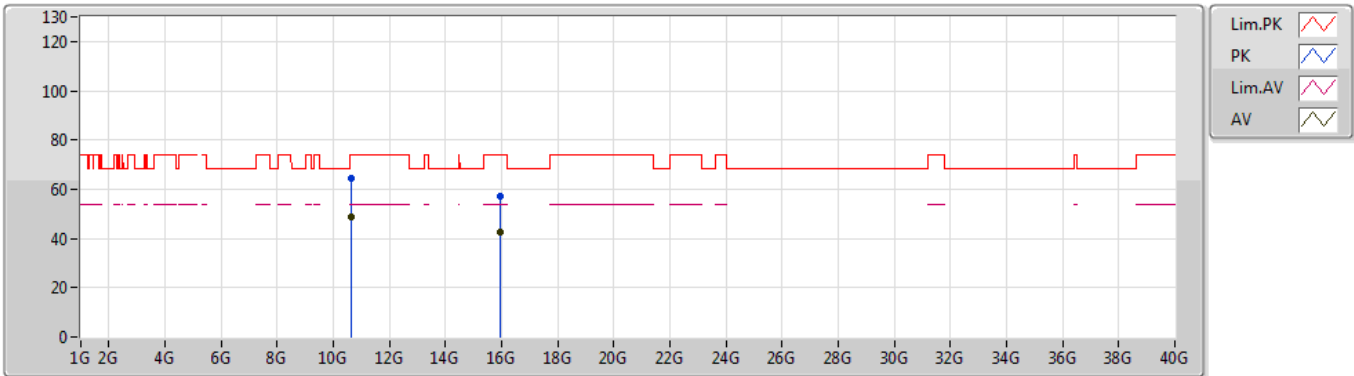
EUT Y_2TX
Setting 11.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.316G	119.82	Inf	-Inf	5.80	3	Horizontal	0	1.96	-	114.02			
AV	5.3176G	108.82	Inf	-Inf	5.80	3	Horizontal	0	1.96	-	103.02			
PK	5.3592G	73.92	74.00	-0.08	5.82	3	Horizontal	0	1.96	-	68.10			
AV	5.3656G	50.94	54.00	-3.06	5.82	3	Horizontal	0	1.96	-	45.12			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5320MHz_TX



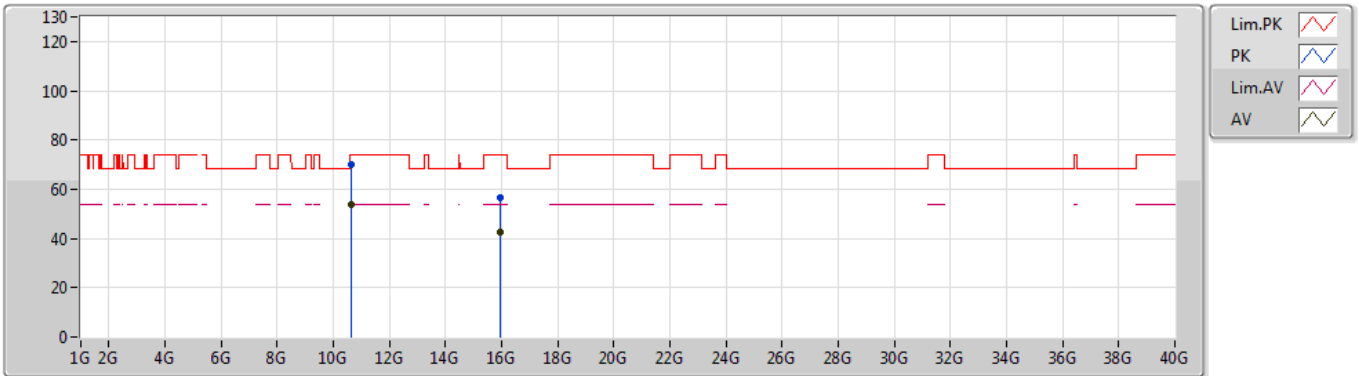
EUT Y_2TX
Setting 11.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.65074G	64.35	74.00	-9.65	12.44	3	Vertical	2	1.56	-	51.91			
AV	10.64936G	48.50	54.00	-5.50	12.44	3	Vertical	2	1.56	-	36.06			
PK	15.9609G	56.95	74.00	-17.05	12.88	3	Vertical	96	1.74	-	44.07			
AV	15.96366G	42.68	54.00	-11.32	12.88	3	Vertical	96	1.74	-	29.80			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5320MHz_TX



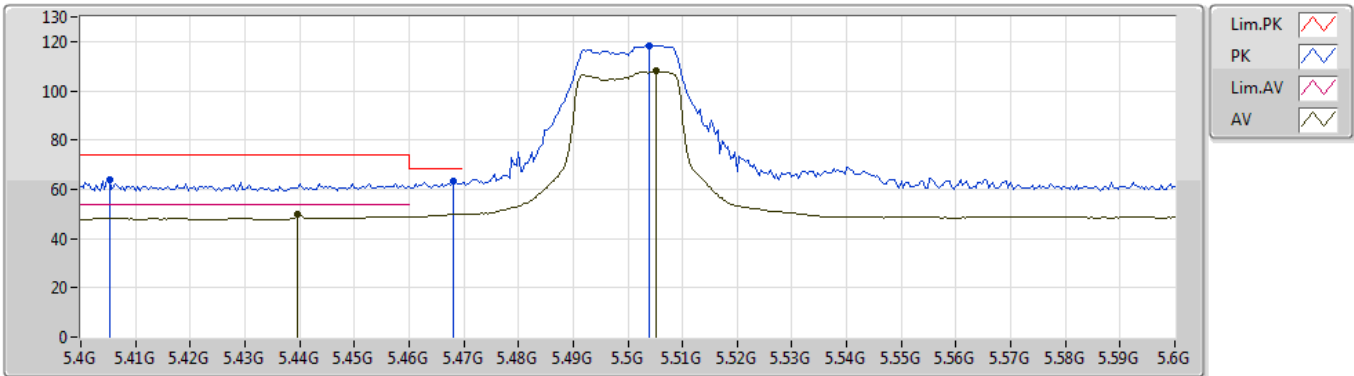
EUT Y_2TX
Setting 11.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.6505G	70.00	74.00	-4.00	12.44	3	Horizontal	5	1.33	-	57.56			
AV	10.64936G	53.62	54.00	-0.38	12.44	3	Horizontal	5	1.33	-	41.18			
PK	15.95916G	56.69	74.00	-17.31	12.88	3	Horizontal	0	1.57	-	43.81			
AV	15.9636G	42.70	54.00	-11.30	12.88	3	Horizontal	0	1.57	-	29.82			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5500MHz_TX



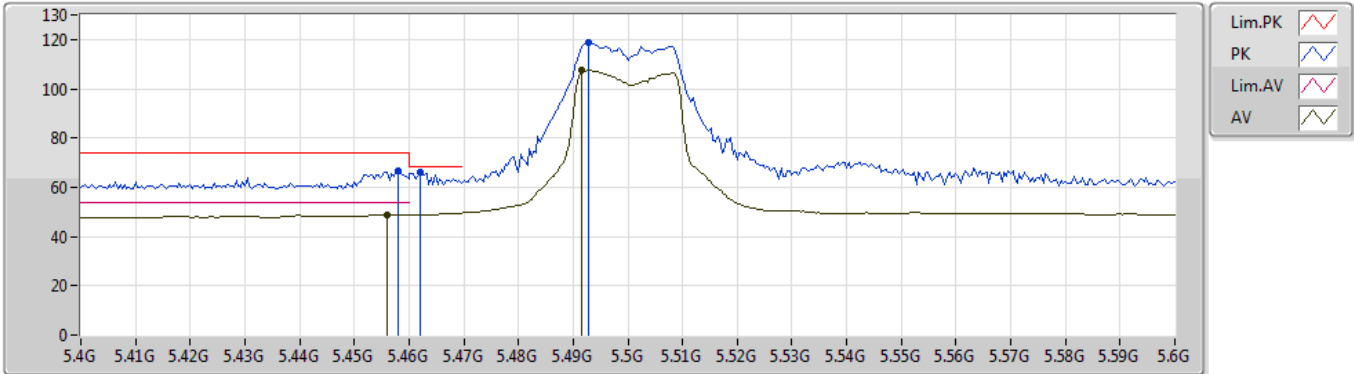
EUT Y_2TX
Setting 12
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.4052G	63.90	74.00	-10.10	5.86	3	Vertical	3	1.90	-	58.04			
PK	5.468G	63.51	68.20	-4.69	6.03	3	Vertical	3	1.90	-	57.48			
AV	5.4396G	49.94	54.00	-4.06	5.95	3	Vertical	3	1.90	-	43.99			
PK	5.504G	118.32	Inf	-Inf	6.13	3	Vertical	3	1.90	-	112.19			
AV	5.5052G	108.05	Inf	-Inf	6.12	3	Vertical	3	1.90	-	101.93			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5500MHz_TX



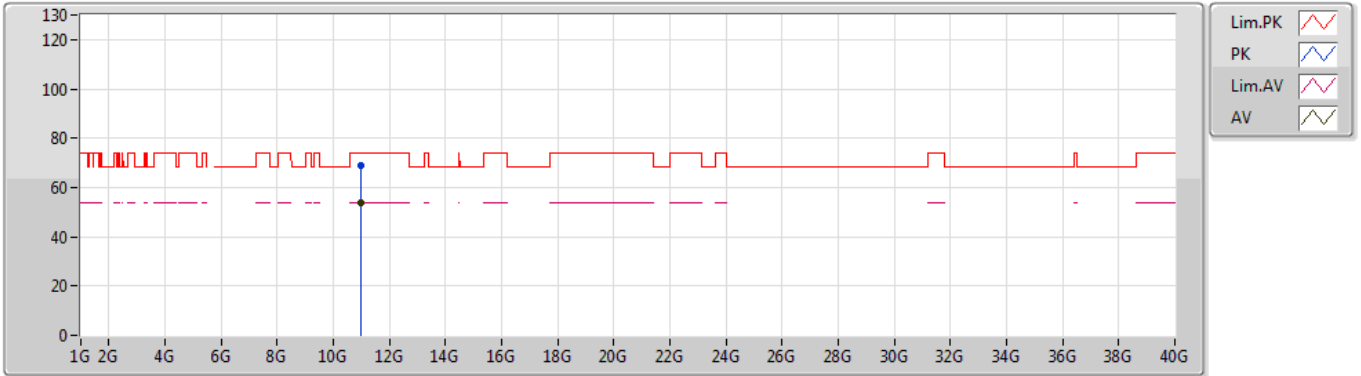
EUT Y_2TX
Setting 12
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.458G	66.85	74.00	-7.15	6.00	3	Horizontal	2	1.94	-	60.85			
AV	5.456G	48.66	54.00	-5.34	6.00	3	Horizontal	2	1.94	-	42.66			
PK	5.462G	66.21	68.20	-1.99	6.01	3	Horizontal	2	1.94	-	60.20			
PK	5.4928G	118.75	Inf	-Inf	6.10	3	Horizontal	2	1.94	-	112.65			
AV	5.4916G	107.63	Inf	-Inf	6.09	3	Horizontal	2	1.94	-	101.54			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5500MHz_TX



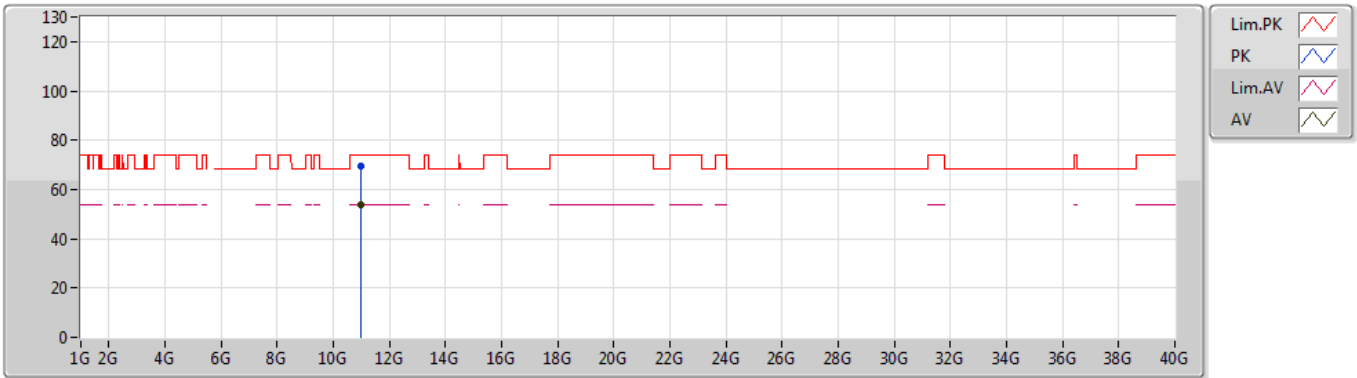
EUT Y_2TX
Setting 12
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.00228G	68.71	74.00	-5.29	12.74	3	Vertical	4	1.55	-	55.97			
AV	11G	53.89	54.00	-0.11	12.74	3	Vertical	4	1.55	-	41.15			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5500MHz_TX



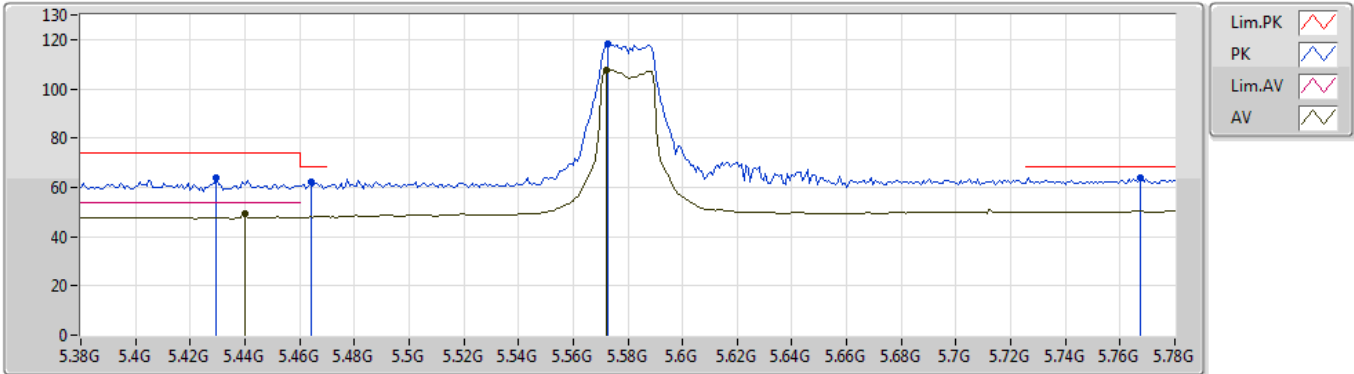
EUT Y_2TX
Setting 12
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.99826G	69.23	74.00	-4.77	12.74	3	Horizontal	358	1.81	-	56.49			
AV	10.99892G	53.72	54.00	-0.28	12.74	3	Horizontal	358	1.81	-	40.98			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5580MHz_TX



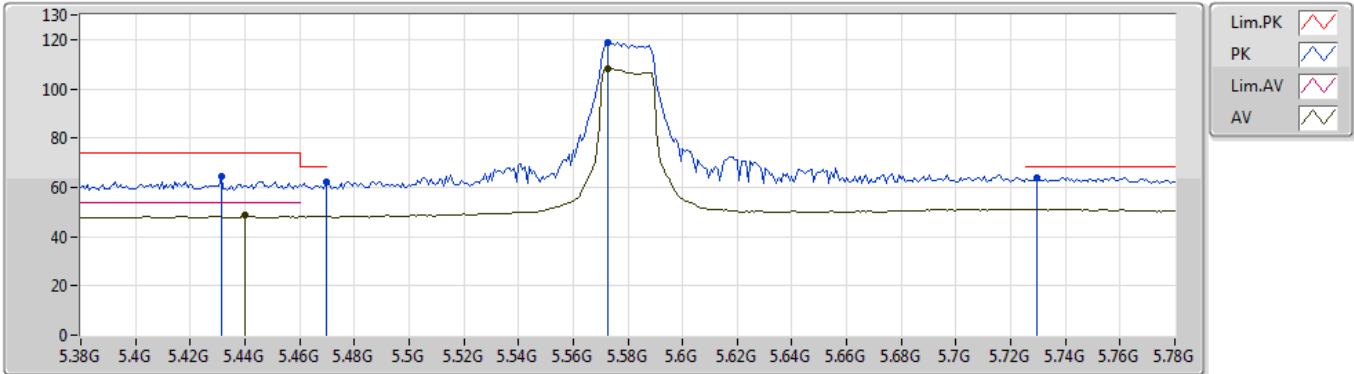
EUT_Y_2TX
Setting 12
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.4296G	63.88	74.00	-10.12	5.92	3	Vertical	1	1.75	-	57.96			
AV	5.44G	49.20	54.00	-4.80	5.95	3	Vertical	1	1.75	-	43.25			
PK	5.464G	62.32	68.20	-5.88	6.02	3	Vertical	1	1.75	-	56.30			
PK	5.5728G	118.45	Inf	-Inf	6.16	3	Vertical	1	1.75	-	112.29			
AV	5.572G	107.74	Inf	-Inf	6.16	3	Vertical	1	1.75	-	101.58			
PK	5.7672G	63.80	68.20	-4.40	5.83	3	Vertical	1	1.75	-	57.97			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5580MHz_TX



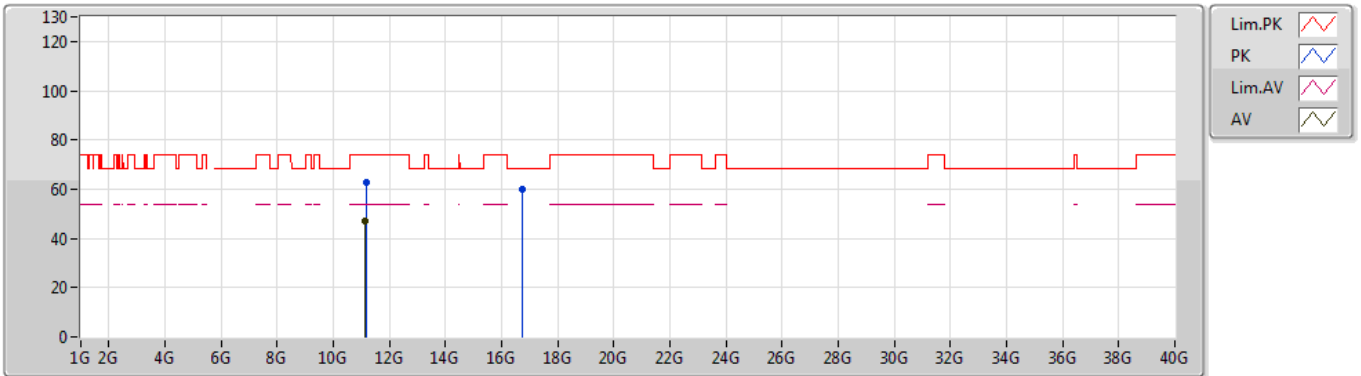
EUT Y_2TX
Setting 12
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.4312G	64.24	74.00	-9.76	5.93	3	Horizontal	1	1.85	-	58.31			
AV	5.44G	48.81	54.00	-5.19	5.95	3	Horizontal	1	1.85	-	42.86			
PK	5.4696G	62.15	68.20	-6.05	6.04	3	Horizontal	1	1.85	-	56.11			
PK	5.5728G	119.05	Inf	-Inf	6.16	3	Horizontal	1	1.85	-	112.89			
AV	5.5728G	108.00	Inf	-Inf	6.16	3	Horizontal	1	1.85	-	101.84			
PK	5.7296G	63.85	68.20	-4.35	5.88	3	Horizontal	1	1.85	-	57.97			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5580MHz_TX



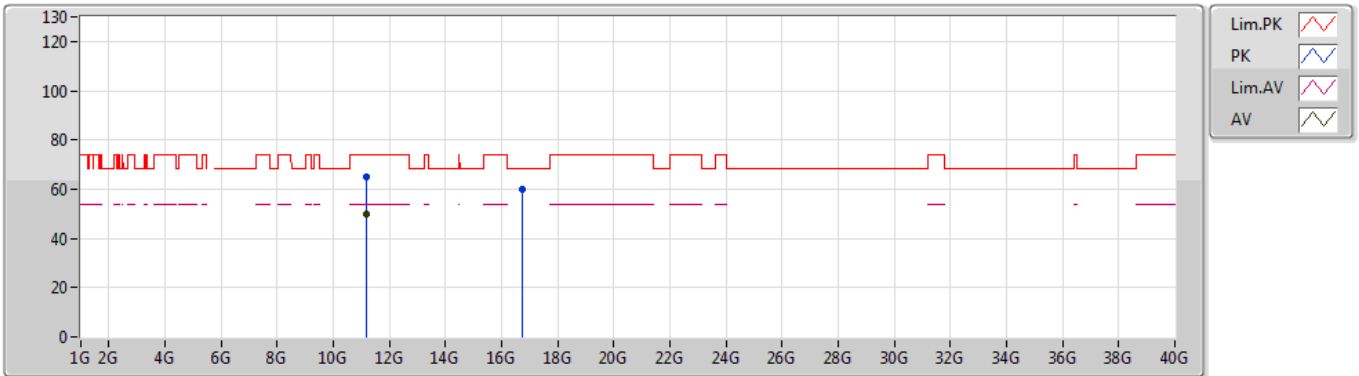
EUT Y_2TX
Setting 12
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.169G	62.84	74.00	-11.16	12.83	3	Vertical	2	1.55	-	50.01			
AV	11.1546G	47.18	54.00	-6.82	12.83	3	Vertical	2	1.55	-	34.35			
PK	16.7535G	59.79	68.20	-8.41	15.30	3	Vertical	0	1.13	-	44.49			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5580MHz_TX



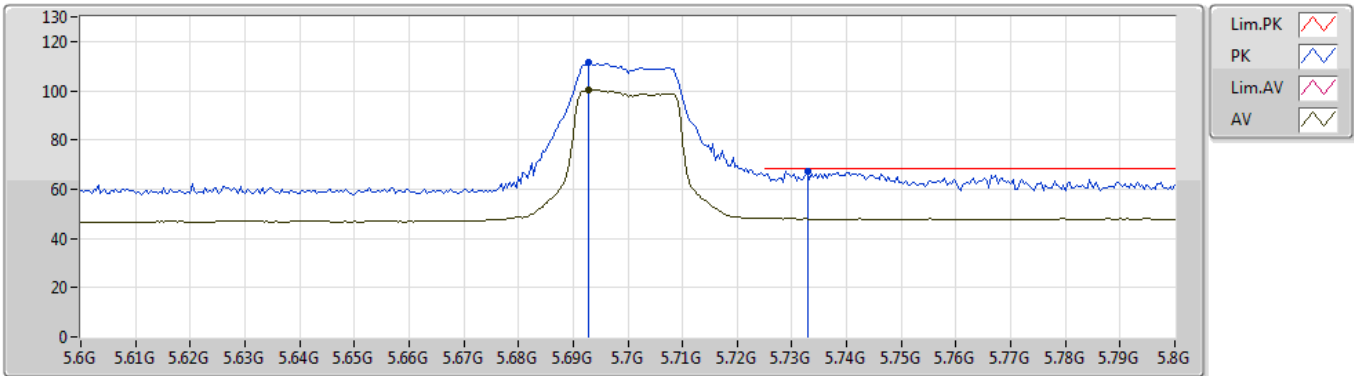
EUT Y_2TX
Setting 12
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.16708G	65.26	74.00	-8.74	12.83	3	Horizontal	5	1.90	-	52.43			
AV	11.16534G	49.78	54.00	-4.22	12.83	3	Horizontal	5	1.90	-	36.95			
PK	16.74042G	59.74	68.20	-8.46	15.25	3	Horizontal	227	1.80	-	44.49			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5700MHz_TX



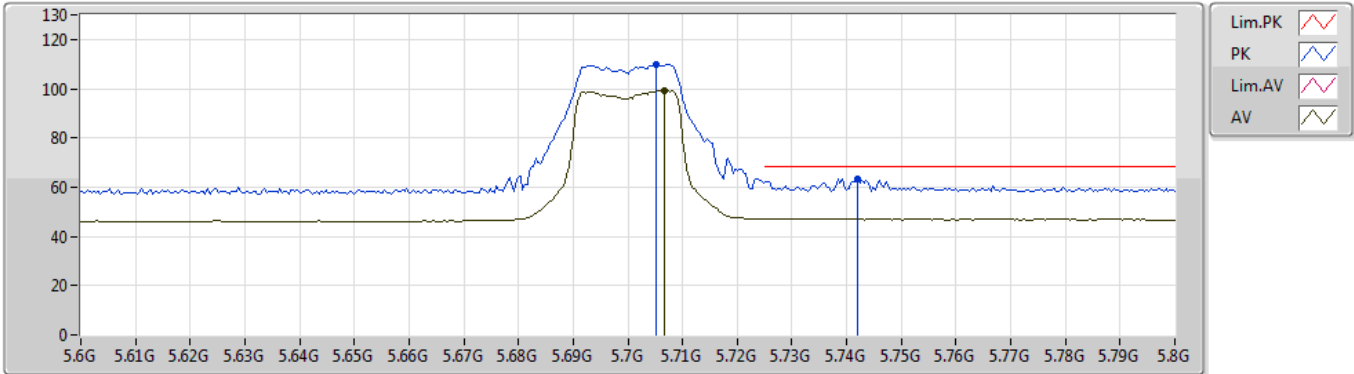
EUT_V_2TX
Setting 2.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.6928G	111.34	Inf	-Inf	5.95	3	Vertical	1	1.73	-	105.39			
AV	5.6928G	100.41	Inf	-Inf	5.95	3	Vertical	1	1.73	-	94.46			
PK	5.7328G	67.09	68.20	-1.11	5.88	3	Vertical	1	1.73	-	61.21			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5700MHz_TX



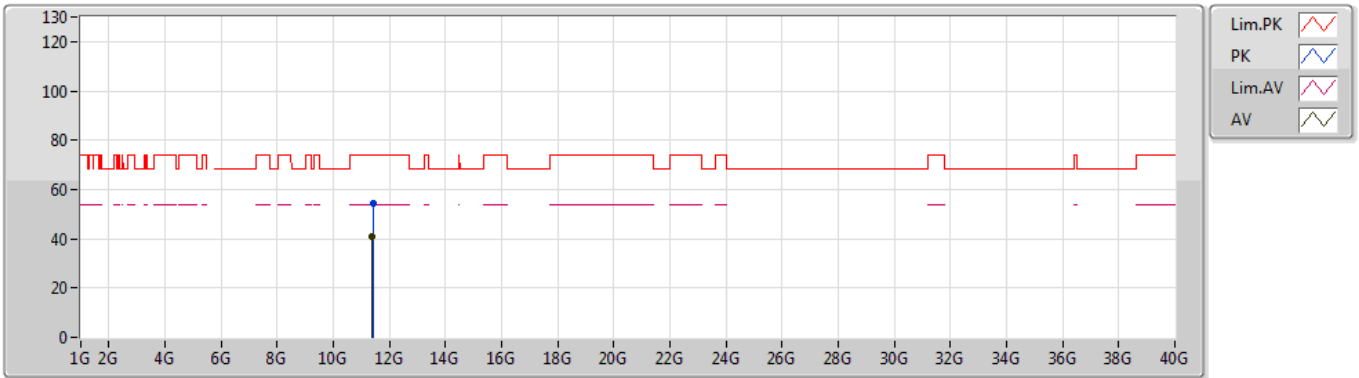
EUT_V_2TX
Setting 2.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.7052G	109.90	Inf	-Inf	5.92	3	Horizontal	1	1.65	-	103.98			
AV	5.7068G	99.33	Inf	-Inf	5.92	3	Horizontal	1	1.65	-	93.41			
PK	5.742G	63.32	68.20	-4.88	5.87	3	Horizontal	1	1.65	-	57.45			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5700MHz_TX



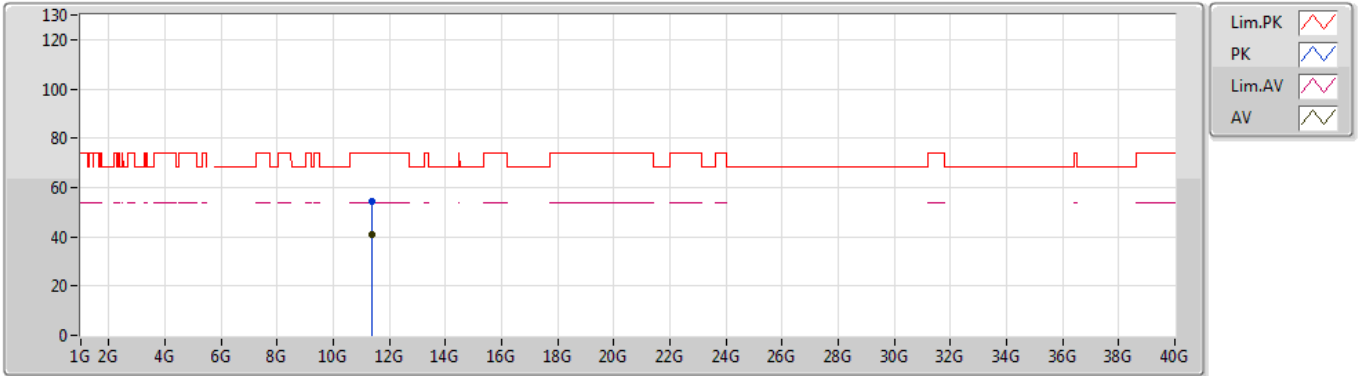
EUT Y_2TX
Setting 2.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.40342G	54.35	74.00	-19.65	12.96	3	Vertical	219	1.50	-	41.39			
AV	11.388G	40.68	54.00	-13.32	12.95	3	Vertical	219	1.50	-	27.73			

802.11ac VHT20_Nss1,(MCS0)_2TX

26/08/2019

5700MHz_TX



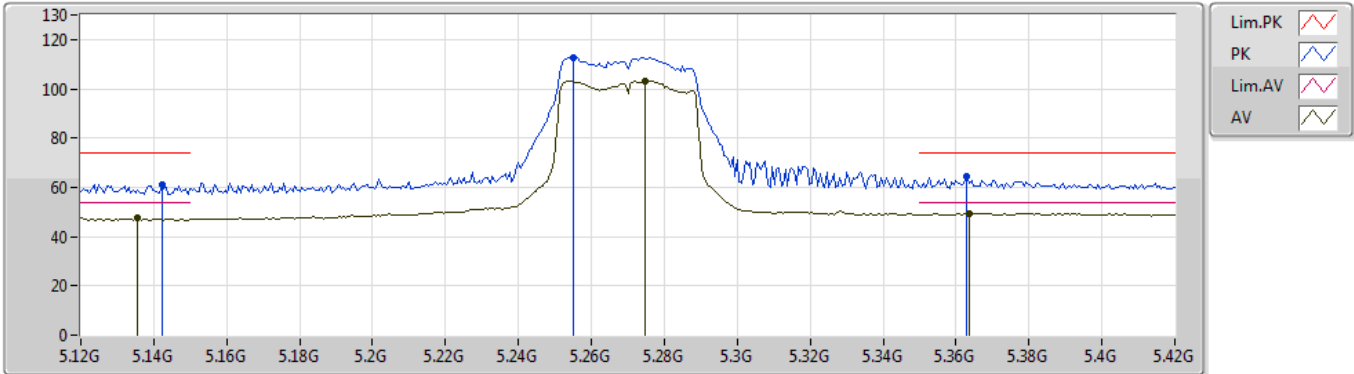
EUT Y_2TX
Setting 2.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.39328G	54.27	74.00	-19.73	12.96	3	Horizontal	307	2.61	-	41.31			
AV	11.3976G	40.67	54.00	-13.33	12.96	3	Horizontal	307	2.61	-	27.71			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5270MHz_TX



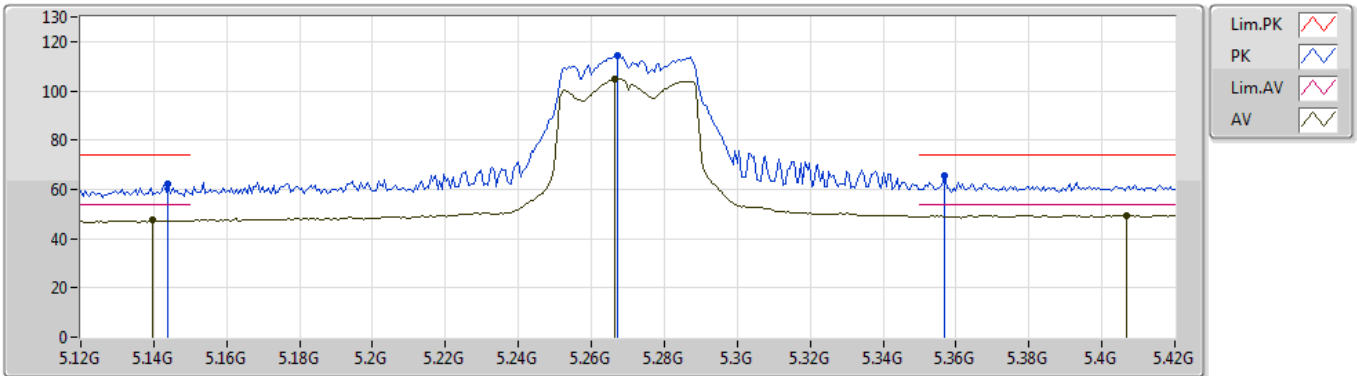
EUT Y_2TX
Setting 8.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1422G	61.11	74.00	-12.89	5.48	3	Vertical	2	1.93	-	55.63			
AV	5.1356G	47.62	54.00	-6.38	5.47	3	Vertical	2	1.93	-	42.15			
PK	5.255G	112.63	Inf	-Inf	5.72	3	Vertical	2	1.93	-	106.91			
AV	5.2748G	103.32	Inf	-Inf	5.75	3	Vertical	2	1.93	-	97.57			
PK	5.363G	64.25	74.00	-9.75	5.81	3	Vertical	2	1.93	-	58.44			
AV	5.3636G	49.56	54.00	-4.44	5.81	3	Vertical	2	1.93	-	43.75			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5270MHz_TX



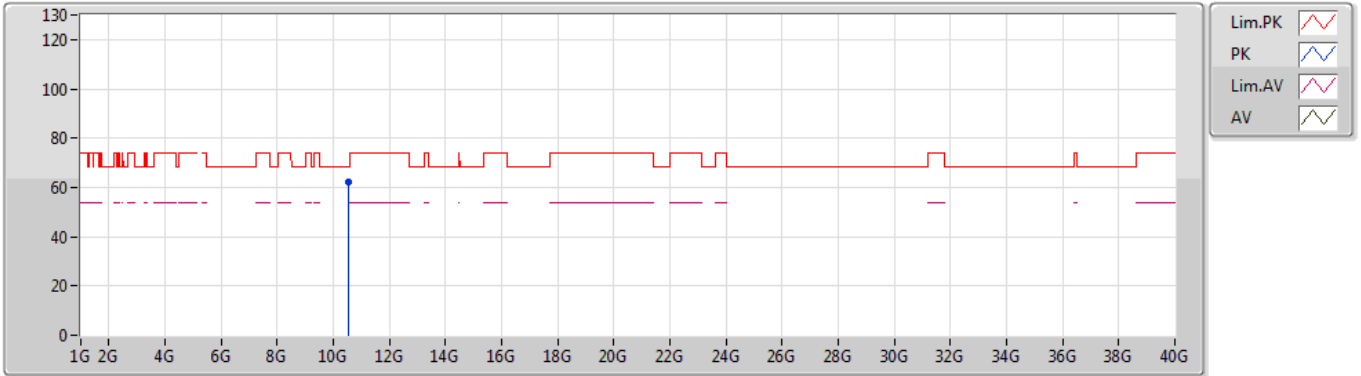
EUT Y_2TX
Setting 8.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.144G	61.94	74.00	-12.06	5.48	3	Horizontal	3	1.89	-	56.46			
AV	5.1398G	47.58	54.00	-6.42	5.48	3	Horizontal	3	1.89	-	42.10			
PK	5.267G	114.20	Inf	-Inf	5.74	3	Horizontal	3	1.89	-	108.46			
AV	5.2664G	104.80	Inf	-Inf	5.74	3	Horizontal	3	1.89	-	99.06			
PK	5.357G	65.67	74.00	-8.33	5.82	3	Horizontal	3	1.89	-	59.85			
AV	5.4068G	49.44	54.00	-4.56	5.86	3	Horizontal	3	1.89	-	43.58			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5270MHz_TX



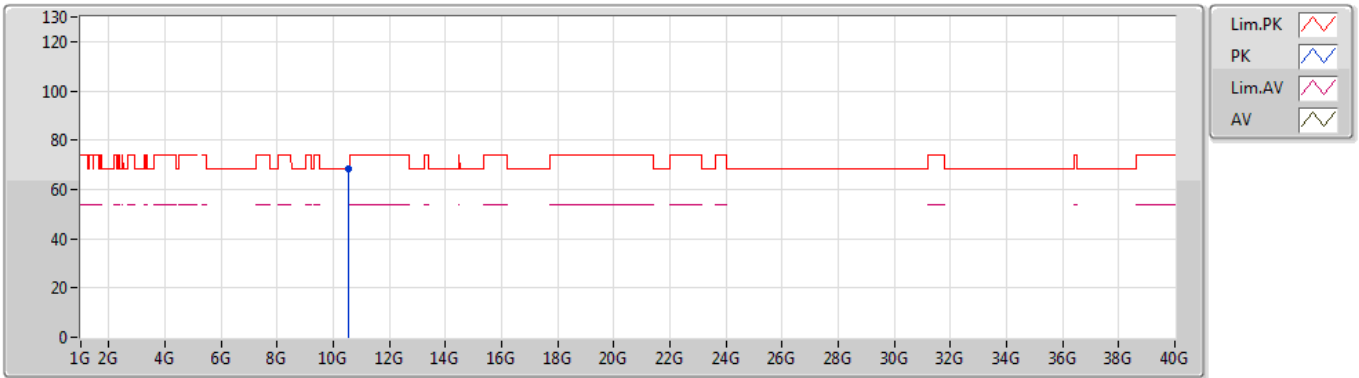
EUT Y_2TX
Setting 8.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.5482G	62.27	68.20	-5.93	12.35	3	Vertical	3	1.90	-	49.92			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5270MHz_TX



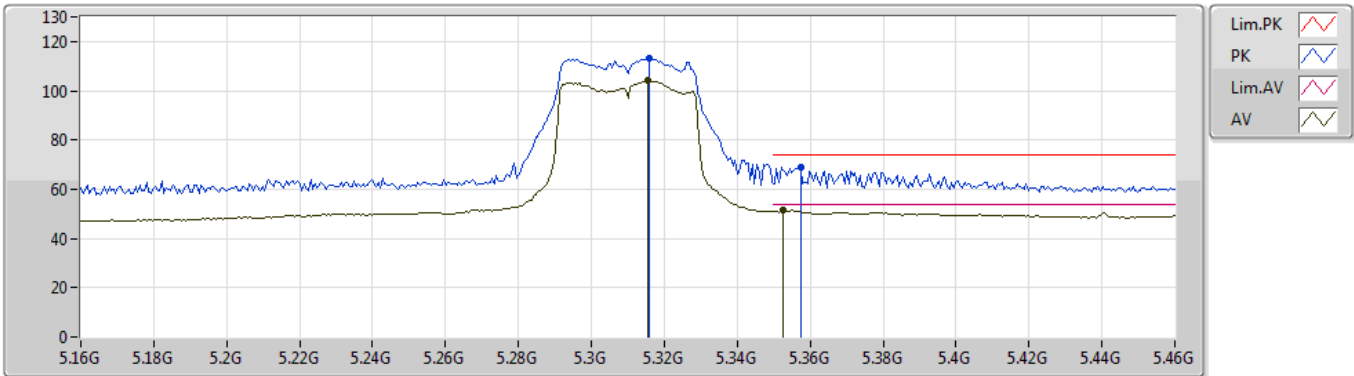
EUT Y_2TX
Setting 8.5
03-W-3
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)			
PK	10.552G	68.17	68.20	-0.03	12.36	3	Horizontal	6	1.98	-	55.81			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5310MHz_TX



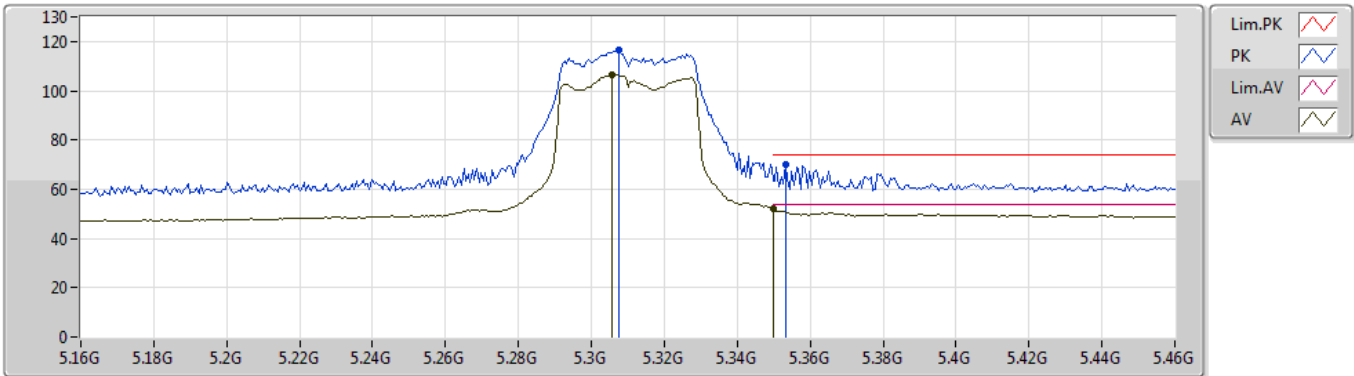
EUT Y_2TX
Setting 10.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.316G	112.91	Inf	-Inf	5.80	3	Vertical	2	1.90	-	107.11			
AV	5.3154G	104.08	Inf	-Inf	5.80	3	Vertical	2	1.90	-	98.28			
PK	5.3574G	68.91	74.00	-5.09	5.82	3	Vertical	2	1.90	-	63.09			
AV	5.3526G	51.36	54.00	-2.64	5.81	3	Vertical	2	1.90	-	45.55			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5310MHz_TX



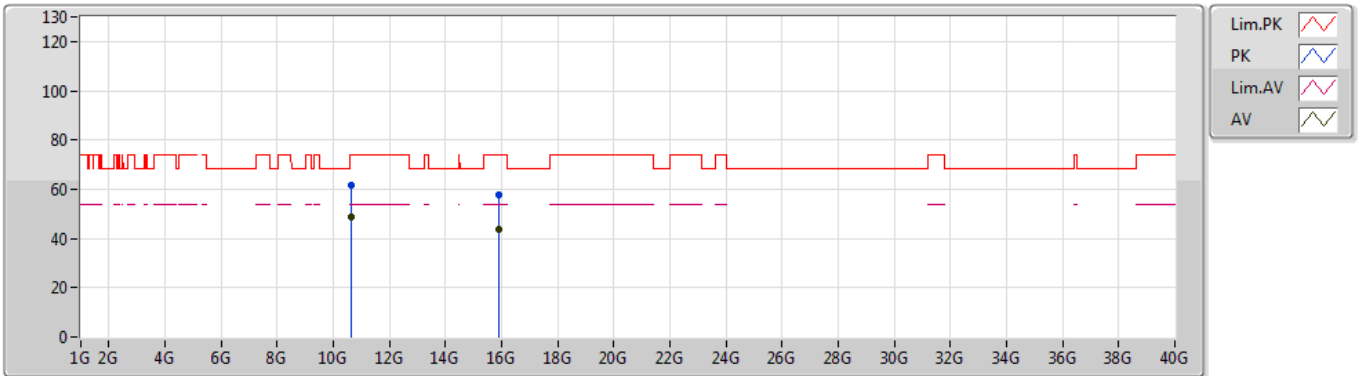
EUT Y_2TX
Setting 10.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.3076G	116.34	Inf	-Inf	5.80	3	Horizontal	0	1.90	-	110.54			
AV	5.3058G	106.53	Inf	-Inf	5.80	3	Horizontal	0	1.90	-	100.73			
PK	5.3532G	70.02	74.00	-3.98	5.81	3	Horizontal	0	1.90	-	64.21			
AV	5.35G	51.85	54.00	-2.15	5.81	3	Horizontal	0	1.90	-	46.04			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5310MHz_TX



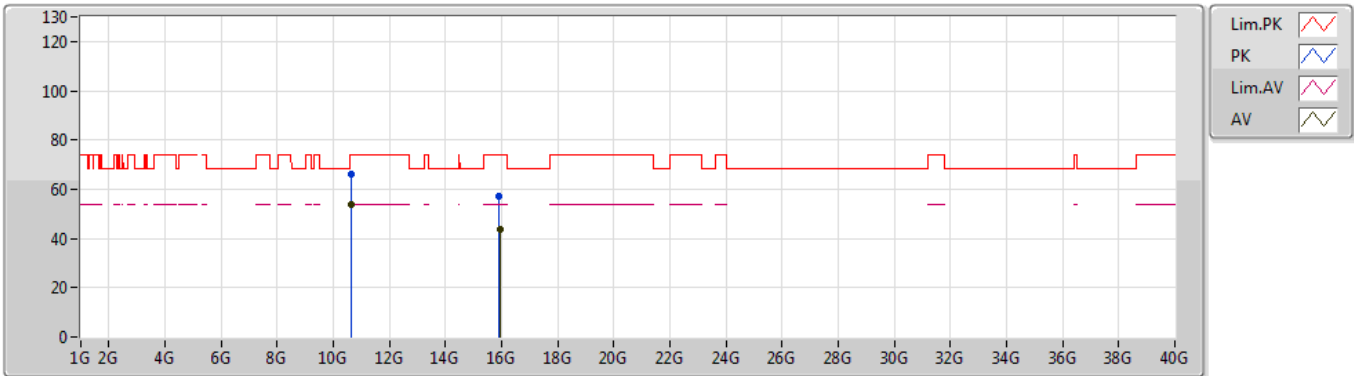
EUT Y_2TX
Setting 10.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.6265G	61.46	74.00	-12.54	12.43	3	Vertical	2	1.55	-	49.03			
AV	10.629G	48.48	54.00	-5.52	12.43	3	Vertical	2	1.55	-	36.05			
PK	15.9093G	57.45	74.00	-16.55	13.06	3	Vertical	143	1.07	-	44.39			
AV	15.9113G	43.92	54.00	-10.08	13.07	3	Vertical	143	1.07	-	30.85			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5310MHz_TX



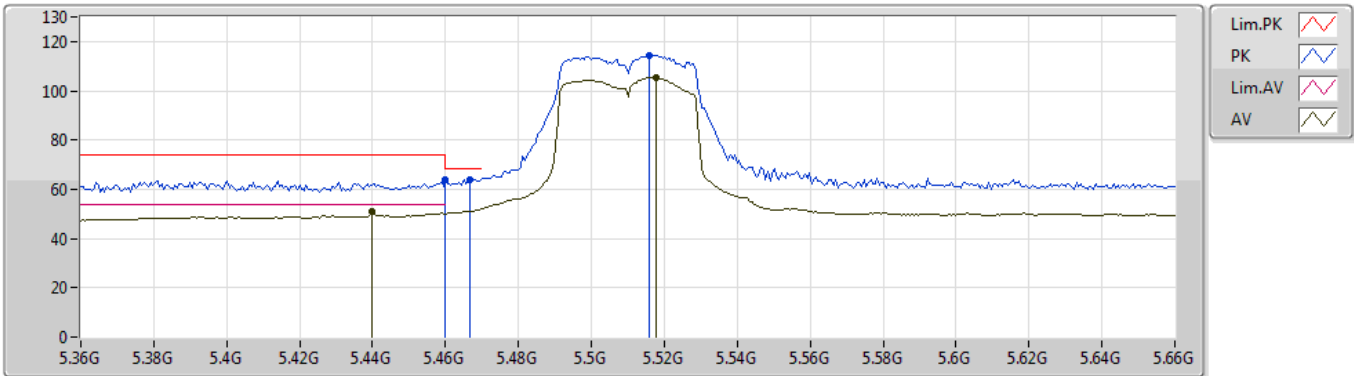
EUT Y_2TX
Setting 10.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.6165G	66.23	74.00	-7.77	12.41	3	Horizontal	6	1.99	-	53.82			
AV	10.6282G	53.71	54.00	-0.29	12.43	3	Horizontal	6	1.99	-	41.28			
PK	15.9232G	57.05	74.00	-16.95	13.02	3	Horizontal	101	1.42	-	44.03			
AV	15.9397G	43.78	54.00	-10.22	12.96	3	Horizontal	101	1.42	-	30.82			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5510MHz_TX



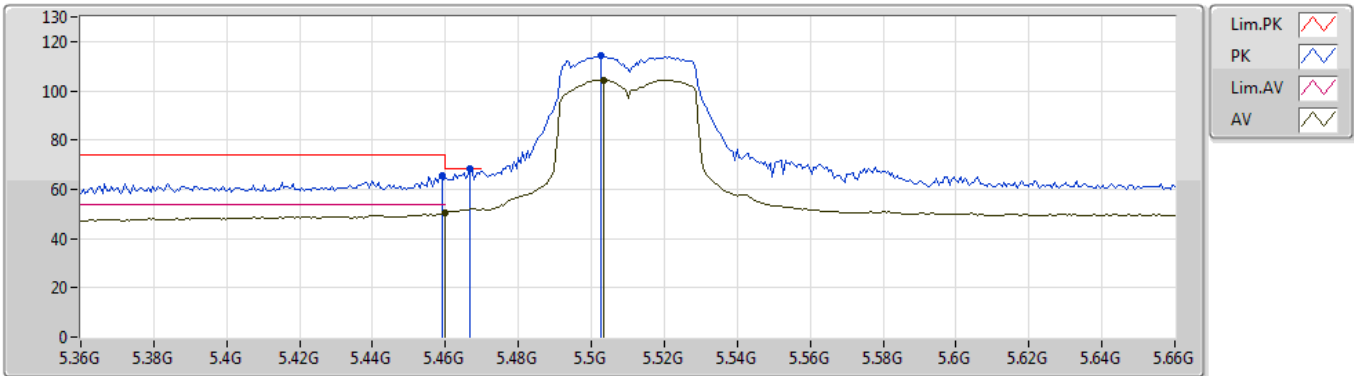
EUT Y_2TX
Setting 10.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.46G	63.62	74.00	-10.38	6.01	3	Vertical	179	1.95	-	57.61			
AV	5.4398G	50.85	54.00	-3.15	5.95	3	Vertical	179	1.95	-	44.90			
PK	5.4668G	64.13	68.20	-4.07	6.03	3	Vertical	179	1.95	-	58.10			
PK	5.516G	114.55	Inf	-Inf	6.13	3	Vertical	179	1.95	-	108.42			
AV	5.5178G	105.41	Inf	-Inf	6.13	3	Vertical	179	1.95	-	99.28			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5510MHz_TX



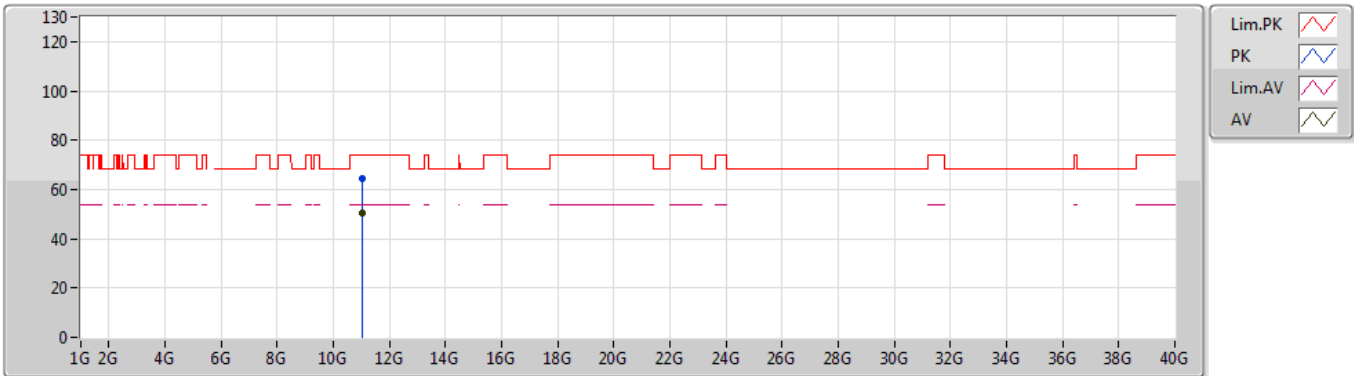
EUT Y_2TX
Setting 10.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.459G	65.55	74.00	-8.45	6.01	3	Horizontal	178	1.91	-	59.54			
AV	5.46G	50.32	54.00	-3.68	6.01	3	Horizontal	178	1.91	-	44.31			
PK	5.4668G	68.15	68.20	-0.05	6.03	3	Horizontal	178	1.91	-	62.12			
PK	5.5028G	114.43	Inf	-Inf	6.12	3	Horizontal	178	1.91	-	108.31			
AV	5.5034G	104.50	Inf	-Inf	6.13	3	Horizontal	178	1.91	-	98.37			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5510MHz_TX



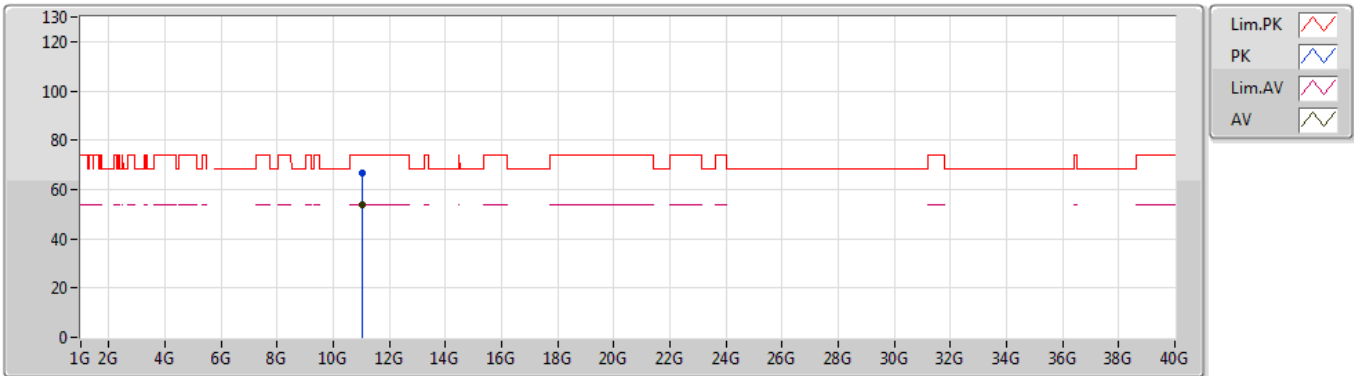
EUT Y_2TX
Setting 10.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.0264G	64.31	74.00	-9.69	12.76	3	Vertical	179	1.59	-	51.55			
AV	11.0246G	50.69	54.00	-3.31	12.76	3	Vertical	179	1.59	-	37.93			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5510MHz_TX



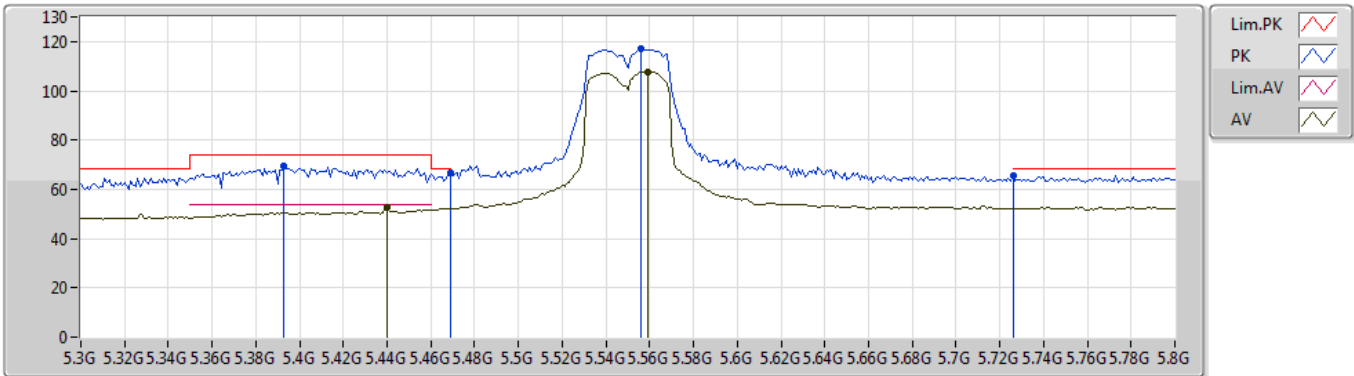
EUT Y_2TX
Setting 10.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.01994G	66.64	74.00	-7.36	12.75	3	Horizontal	174	1.87	-	53.89			
AV	11.01994G	53.80	54.00	-0.20	12.75	3	Horizontal	174	1.87	-	41.05			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5550MHz_TX



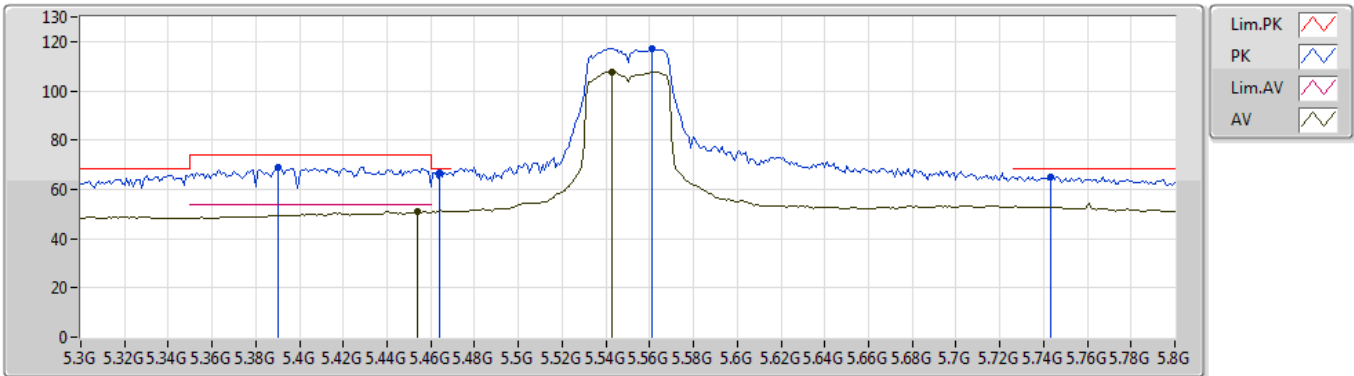
EUT_Y_2TX
Setting 14
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.393G	69.35	74.00	-4.65	5.83	3	Vertical	179	1.81	-	63.52			
PK	5.469G	66.78	68.20	-1.42	6.03	3	Vertical	179	1.81	-	60.75			
AV	5.44G	52.83	54.00	-1.17	5.95	3	Vertical	179	1.81	-	46.88			
PK	5.556G	116.98	Inf	-Inf	6.14	3	Vertical	179	1.81	-	110.84			
AV	5.559G	107.82	Inf	-Inf	6.14	3	Vertical	179	1.81	-	101.68			
PK	5.726G	65.70	68.20	-2.50	5.89	3	Vertical	179	1.81	-	59.81			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5550MHz_TX



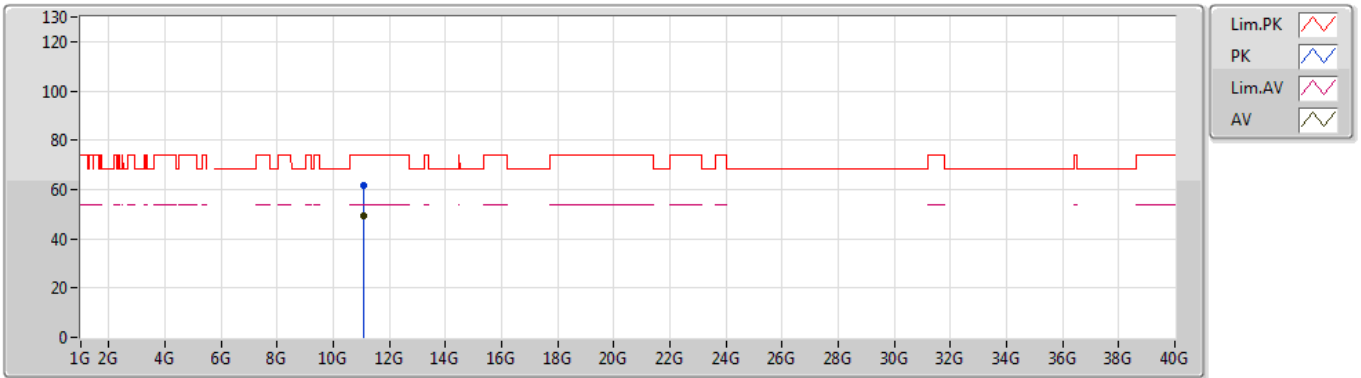
EUT Y_2TX
Setting 14
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.39G	69.17	74.00	-4.83	5.83	3	Horizontal	179	1.90	-	63.34			
PK	5.464G	66.93	68.20	-1.27	6.02	3	Horizontal	179	1.90	-	60.91			
AV	5.454G	50.89	54.00	-3.11	5.99	3	Horizontal	179	1.90	-	44.90			
PK	5.561G	117.26	Inf	-Inf	6.15	3	Horizontal	179	1.90	-	111.11			
AV	5.543G	107.73	Inf	-Inf	6.15	3	Horizontal	179	1.90	-	101.58			
PK	5.743G	65.18	68.20	-3.02	5.86	3	Horizontal	179	1.90	-	59.32			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5550MHz_TX



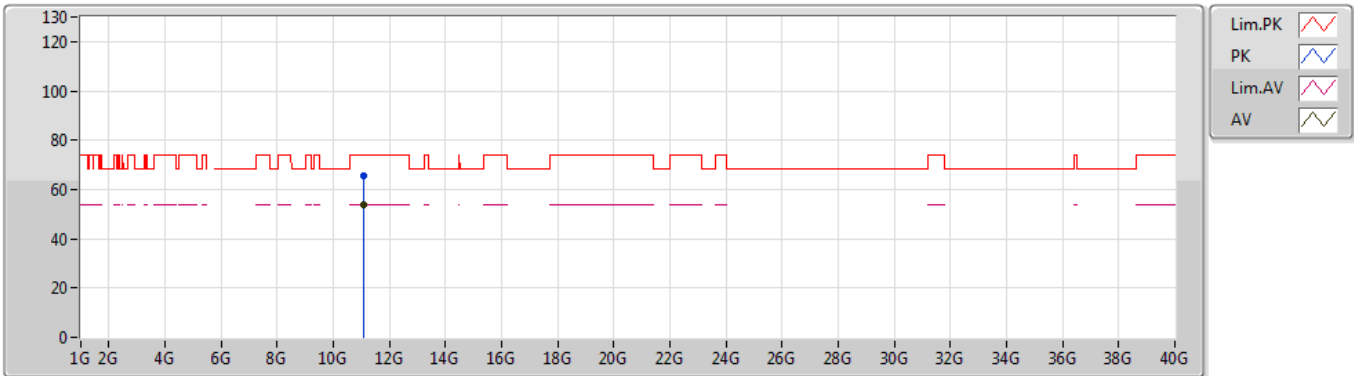
EUT Y_2TX
Setting 14
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.1065G	61.54	74.00	-12.46	12.79	3	Vertical	180	1.64	-	48.75			
AV	11.0999G	49.23	54.00	-4.77	12.79	3	Vertical	180	1.64	-	36.44			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5550MHz_TX



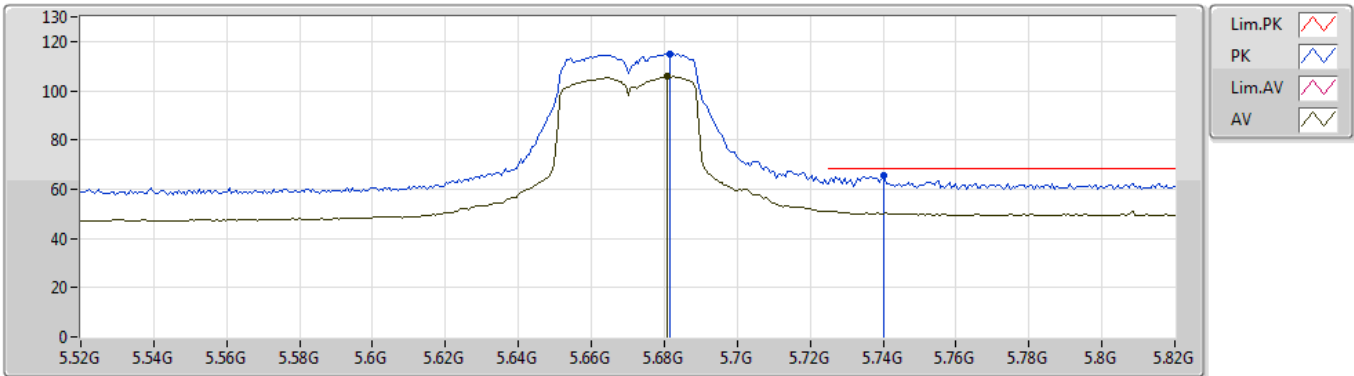
EUT Y_2TX
Setting 14
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.1007G	65.46	74.00	-8.54	12.79	3	Horizontal	174	1.84	-	52.67			
AV	11.1G	53.67	54.00	-0.33	12.79	3	Horizontal	174	1.84	-	40.88			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5670MHz_TX



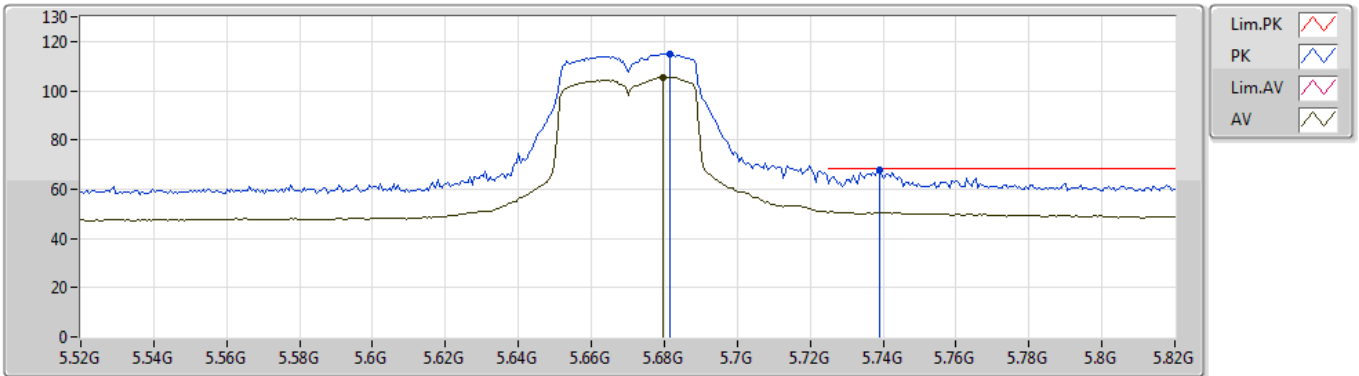
EUT Y_2TX
Setting 10.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.6814G	115.12	Inf	-Inf	5.97	3	Vertical	179	1.83	-	109.15			
AV	5.6808G	105.84	Inf	-Inf	5.97	3	Vertical	179	1.83	-	99.87			
PK	5.7402G	65.47	68.20	-2.73	5.87	3	Vertical	179	1.83	-	59.60			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5670MHz_TX



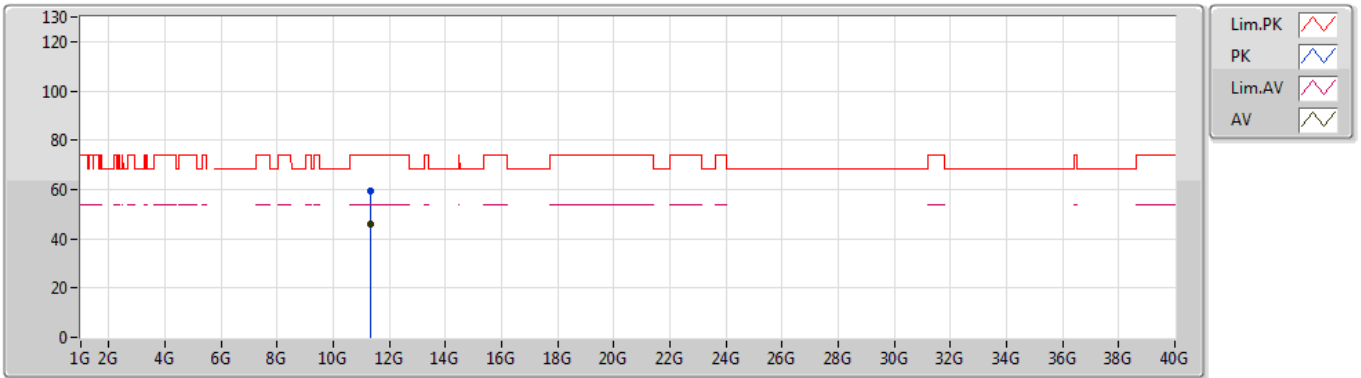
EUT V_2TX
Setting 10.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.6814G	114.90	Inf	-Inf	5.97	3	Horizontal	177	1.83	-	108.93			
AV	5.6796G	105.58	Inf	-Inf	5.98	3	Horizontal	177	1.83	-	99.60			
PK	5.739G	67.75	68.20	-0.45	5.87	3	Horizontal	177	1.83	-	61.88			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5670MHz_TX



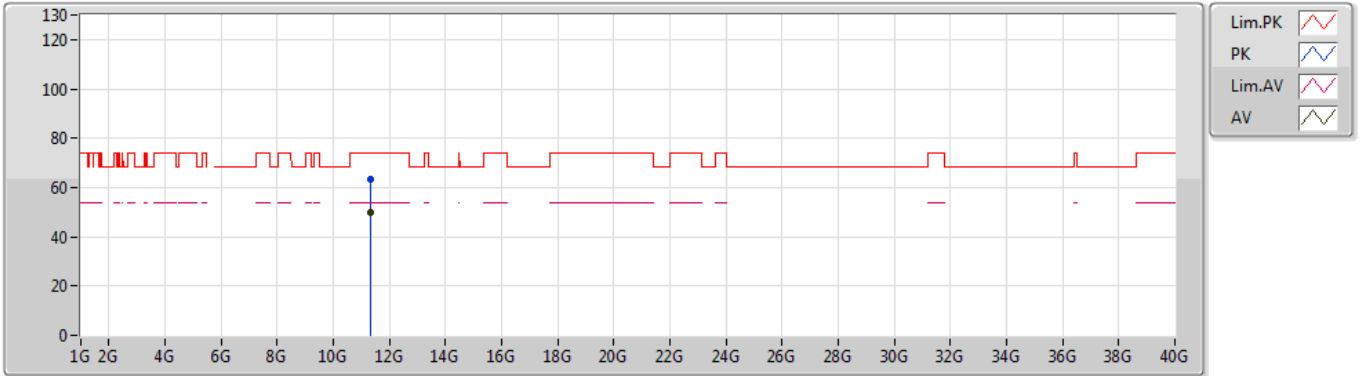
EUT Y_2TX
Setting 10.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.3521G	59.14	74.00	-14.86	12.93	3	Vertical	180	1.91	-	46.21			
AV	11.3484G	46.19	54.00	-7.81	12.92	3	Vertical	180	1.91	-	33.27			

802.11ac VHT40_Nss1,(MCS0)_2TX

26/08/2019

5670MHz_TX



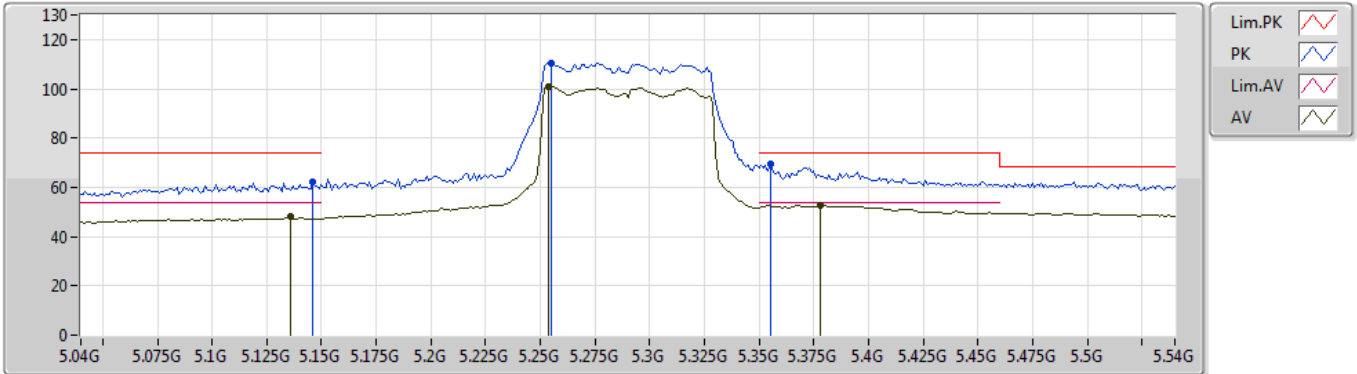
EUT Y_2TX
Setting 10.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.3466G	63.39	74.00	-10.61	12.92	3	Horizontal	182	1.91	-	50.47			
AV	11.3489G	50.00	54.00	-4.00	12.92	3	Horizontal	182	1.91	-	37.08			

802.11ac VHT80_Nss1,(MCS0)_2TX

26/08/2019

5290MHz_TX



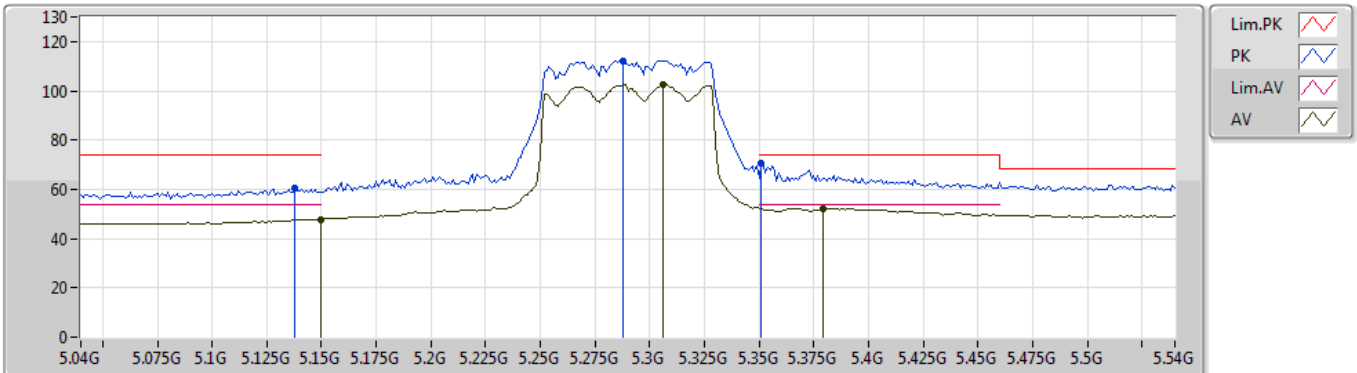
EUT Y_2TX
Setting 11
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.146G	62.30	74.00	-11.70	5.50	3	Vertical	179	1.88	-	56.80			
AV	5.136G	48.21	54.00	-5.79	5.47	3	Vertical	179	1.88	-	42.74			
PK	5.255G	110.63	Inf	-Inf	5.72	3	Vertical	179	1.88	-	104.91			
AV	5.254G	101.12	Inf	-Inf	5.72	3	Vertical	179	1.88	-	95.40			
PK	5.355G	69.67	74.00	-4.33	5.81	3	Vertical	179	1.88	-	63.86			
AV	5.378G	52.62	54.00	-1.38	5.83	3	Vertical	179	1.88	-	46.79			

802.11ac VHT80_Nss1,(MCS0)_2TX

26/08/2019

5290MHz_TX



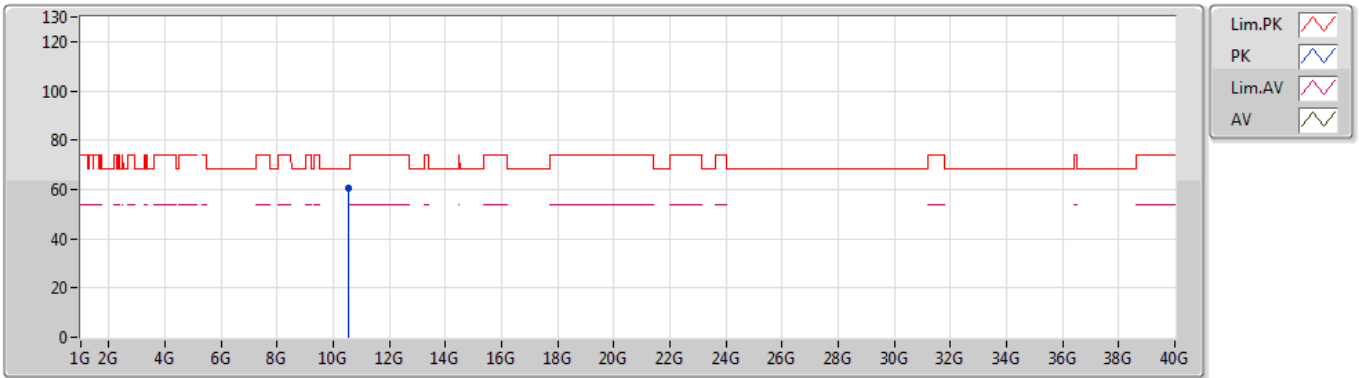
EUT Y_2TX
Setting 11
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.138G	60.71	74.00	-13.29	5.47	3	Horizontal	178	1.94	-	55.24			
AV	5.15G	47.80	54.00	-6.20	5.50	3	Horizontal	178	1.94	-	42.30			
PK	5.288G	112.33	Inf	-Inf	5.78	3	Horizontal	178	1.94	-	106.55			
AV	5.306G	102.39	Inf	-Inf	5.80	3	Horizontal	178	1.94	-	96.59			
PK	5.351G	70.68	74.00	-3.32	5.81	3	Horizontal	178	1.94	-	64.87			
AV	5.379G	52.38	54.00	-1.62	5.83	3	Horizontal	178	1.94	-	46.55			

802.11ac VHT80_Nss1,(MCS0)_2TX

26/08/2019

5290MHz_TX



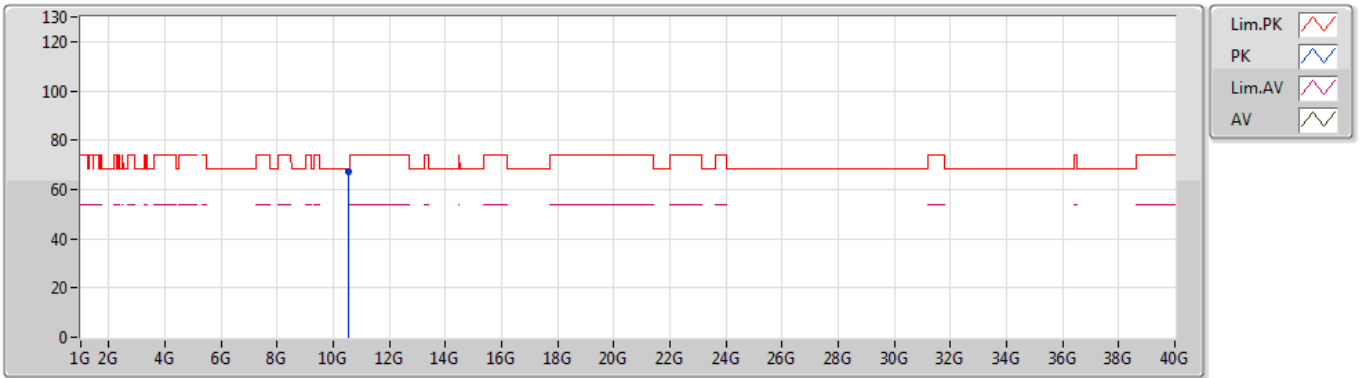
EUT Y_2TX
Setting 11
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.5494G	60.60	68.20	-7.60	12.35	3	Vertical	180	1.91	-	48.25			

802.11ac VHT80_Nss1,(MCS0)_2TX

26/08/2019

5290MHz_TX



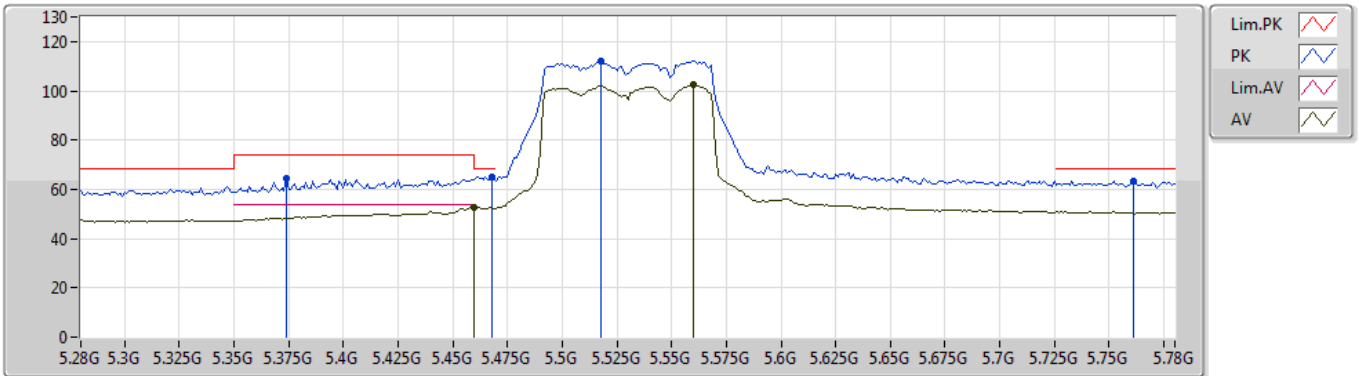
EUT_Y_2TX
Setting 11
03-W-3
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)			
PK	10.552G	67.15	68.20	-1.05	12.36	3	Horizontal	183	2.05	-	54.79			

802.11ac VHT80_Nss1,(MCS0)_2TX

26/08/2019

5530MHz_TX



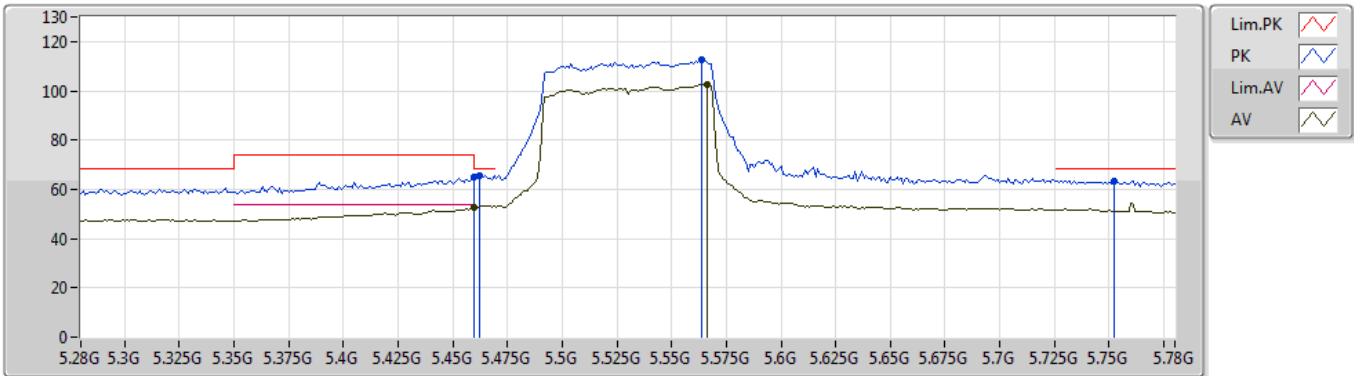
EUT Y_2TX
Setting 12
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.374G	64.16	74.00	-9.84	5.82	3	Vertical	179	1.83	-	58.34			
PK	5.468G	65.21	68.20	-2.99	6.03	3	Vertical	179	1.83	-	59.18			
AV	5.46G	52.85	54.00	-1.15	6.01	3	Vertical	179	1.83	-	46.84			
PK	5.518G	112.07	Inf	-Inf	6.13	3	Vertical	179	1.83	-	105.94			
AV	5.56G	102.53	Inf	-Inf	6.15	3	Vertical	179	1.83	-	96.38			
PK	5.761G	63.50	68.20	-4.70	5.84	3	Vertical	179	1.83	-	57.66			

802.11ac VHT80_Nss1,(MCS0)_2TX

26/08/2019

5530MHz_TX



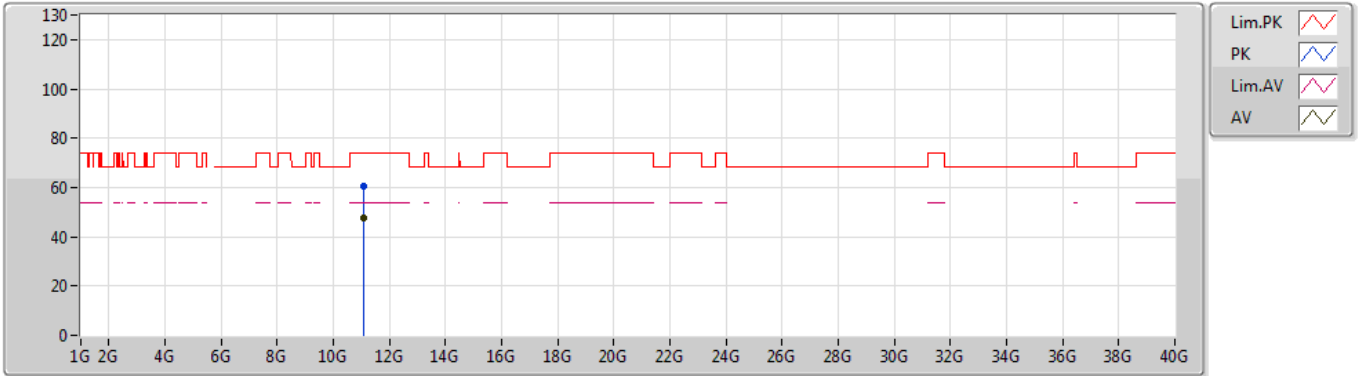
EUT_Y_2TX
Setting 12
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.46G	65.11	74.00	-8.89	6.01	3	Horizontal	180	1.80	-	59.10			
AV	5.46G	52.67	54.00	-1.33	6.01	3	Horizontal	180	1.80	-	46.66			
PK	5.462G	65.49	68.20	-2.71	6.01	3	Horizontal	180	1.80	-	59.48			
PK	5.564G	112.77	Inf	-Inf	6.15	3	Horizontal	180	1.80	-	106.62			
AV	5.566G	102.33	Inf	-Inf	6.15	3	Horizontal	180	1.80	-	96.18			
PK	5.752G	63.58	68.20	-4.62	5.85	3	Horizontal	180	1.80	-	57.73			

802.11ac VHT80_Nss1,(MCS0)_2TX

26/08/2019

5530MHz_TX



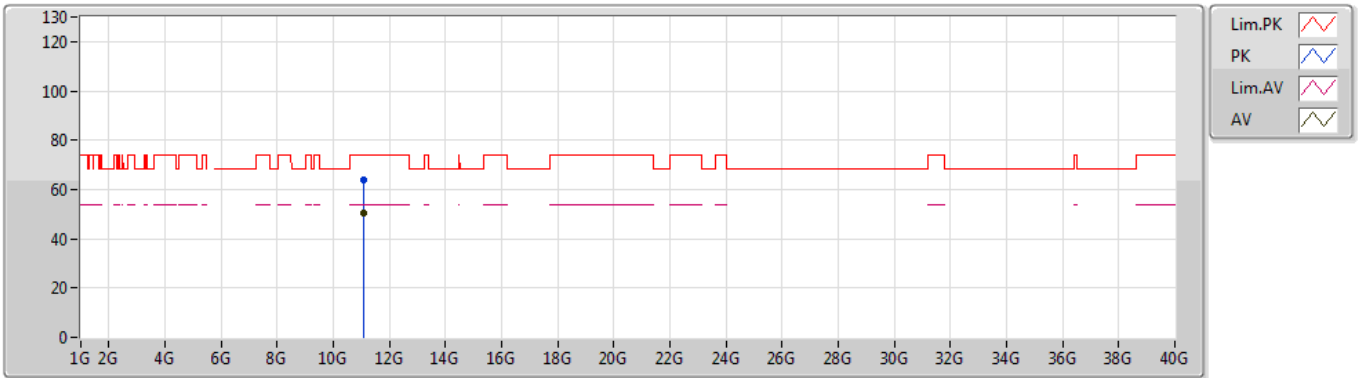
EUT_Y_2TX
Setting 12
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.059G	60.52	74.00	-13.48	12.77	3	Vertical	180	1.64	-	47.75			
AV	11.0598G	47.37	54.00	-6.63	12.77	3	Vertical	180	1.64	-	34.60			

802.11ac VHT80_Nss1,(MCS0)_2TX

26/08/2019

5530MHz_TX



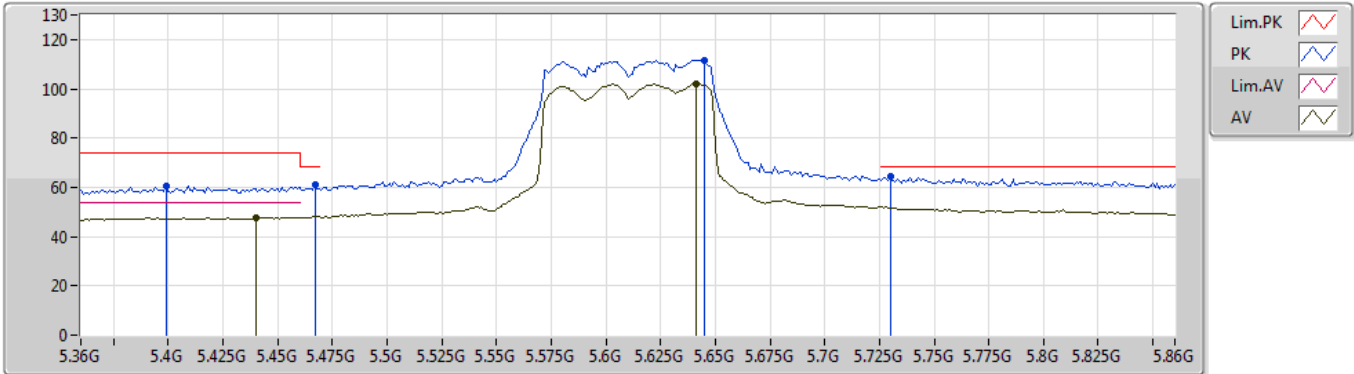
EUT Y_2TX
Setting 12
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.0588G	63.70	74.00	-10.30	12.77	3	Horizontal	174	1.86	-	50.93			
AV	11.0598G	50.67	54.00	-3.33	12.77	3	Horizontal	174	1.86	-	37.90			

802.11ac VHT80_Nss1,(MCS0)_2TX

26/08/2019

5610MHz_TX



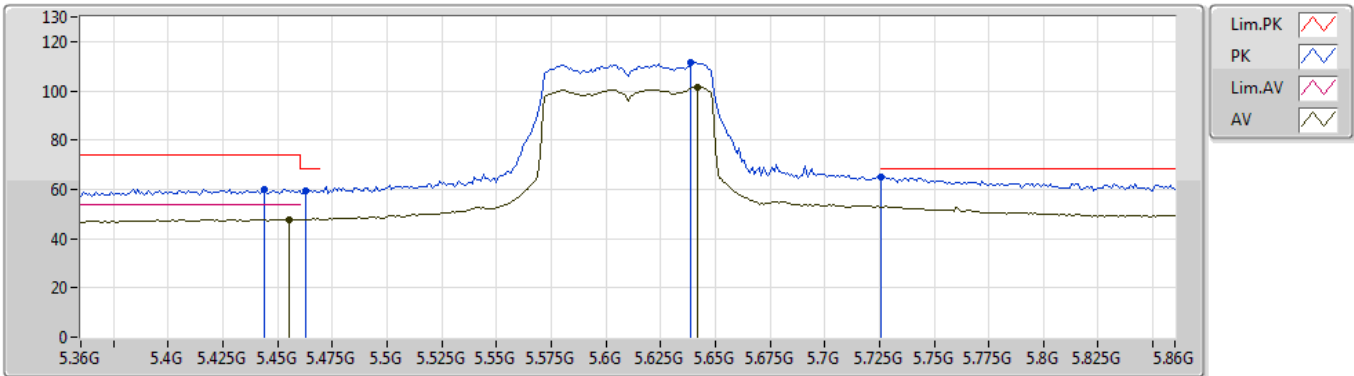
EUT Y_2TX
Setting 10.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.399G	60.63	74.00	-13.37	5.84	3	Vertical	180	1.88	-	54.79
PK	5.467G	61.05	68.20	-7.15	6.03	3	Vertical	180	1.88	-	55.02
AV	5.44G	47.88	54.00	-6.12	5.95	3	Vertical	180	1.88	-	41.93
PK	5.645G	111.55	Inf	-Inf	6.06	3	Vertical	180	1.88	-	105.49
AV	5.641G	102.21	Inf	-Inf	6.08	3	Vertical	180	1.88	-	96.13
PK	5.73G	64.31	68.20	-3.89	5.88	3	Vertical	180	1.88	-	58.43

802.11ac VHT80_Nss1,(MCS0)_2TX

26/08/2019

5610MHz_TX



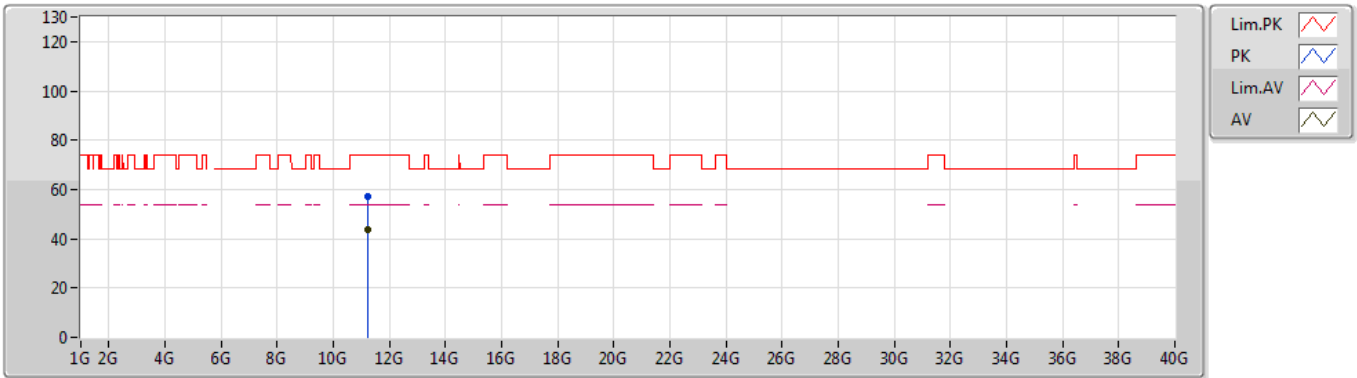
EUT Y_2TX
Setting 10.5
03-W-3-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.444G	60.21	74.00	-13.79	5.96	3	Horizontal	177	1.80	-	54.25			
PK	5.463G	59.59	68.20	-8.61	6.01	3	Horizontal	177	1.80	-	53.58			
AV	5.455G	47.80	54.00	-6.20	5.99	3	Horizontal	177	1.80	-	41.81			
PK	5.639G	111.27	Inf	-Inf	6.08	3	Horizontal	177	1.80	-	105.19			
AV	5.642G	101.60	Inf	-Inf	6.08	3	Horizontal	177	1.80	-	95.52			
PK	5.726G	65.09	68.20	-3.11	5.89	3	Horizontal	177	1.80	-	59.20			

802.11ac VHT80_Nss1,(MCS0)_2TX

26/08/2019

5610MHz_TX



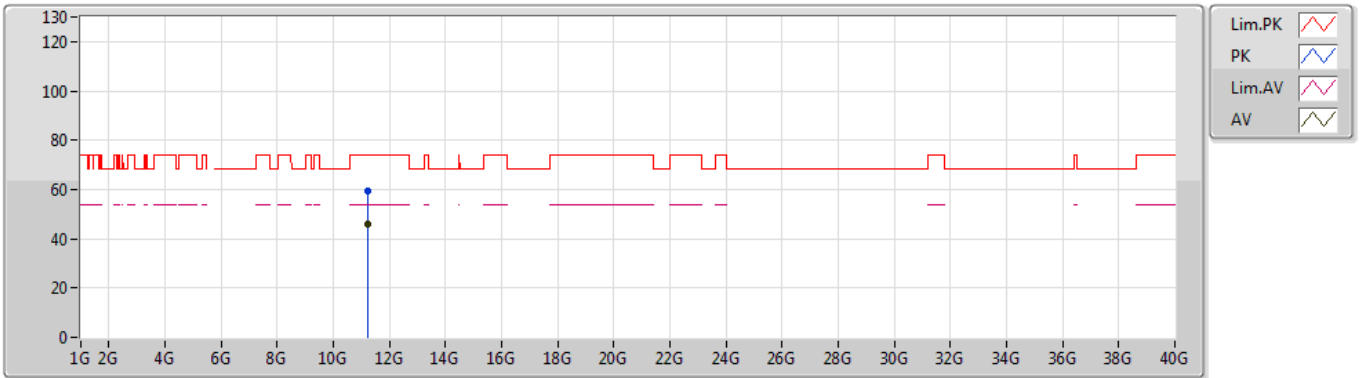
EUT_Y_2TX
Setting 10.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.215G	56.90	74.00	-17.10	12.86	3	Vertical	180	1.56	-	44.04			
AV	11.214G	43.85	54.00	-10.15	12.86	3	Vertical	180	1.56	-	30.99			

802.11ac VHT80_Nss1,(MCS0)_2TX

26/08/2019

5610MHz_TX



EUT_Y_2TX
Setting 10.5
03-W-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.2144G	59.62	74.00	-14.38	12.86	3	Horizontal	183	1.34	-	46.76			
AV	11.2124G	46.08	54.00	-7.92	12.86	3	Horizontal	183	1.34	-	33.22			