

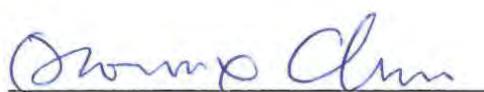


# FCC Test Report

**Equipment** : Secured Wireless Access Point  
**Brand Name** : Fortinet, Inc.  
**Model No.** : FORTIAP-U321EVxxxxxx, FAP-U321EVxxxxxx;  
FORTIAP-U323EVxxxxxx, FAP-U323EVxxxxxx.  
(Refer to Section 1.1.5 for more details)  
**FCC ID** : TVE-261DD011  
**Standard** : 47 CFR FCC Part 15.407  
**Operating Band** : 5250 MHz – 5350 MHz  
5470 MHz – 5725 MHz  
5725 MHz – 5850 MHz  
**Applicant** : Fortinet, Inc.  
899 Kifer Road, Sunnyvale, CA 94086, USA  
**Manufacturer** : Universal Global Scientific Industrial Co., Ltd  
141, Lane 351, Sec. 1, Taiping Road., TsaoTuen, Nantou  
54261, Taiwan  
**Function** :  Outdoor;  Indoor;  Fixed P2P  
 Client  
**TPC Function** : TPC

The product sample received on May 15, 2017 and completely tested on Sep. 06, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

  
Phoenix Chen  
SPORTON INTERNATIONAL INC.





## Table of Contents

<b>1 GENERAL DESCRIPTION.....</b>	<b>5</b>
1.1 INFORMATION .....	5
1.2 TESTING APPLIED STANDARDS .....	7
1.3 TESTING LOCATION INFORMATION .....	8
1.4 MEASUREMENT UNCERTAINTY .....	8
<b>2 TEST CONFIGURATION OF EUT .....</b>	<b>9</b>
2.1 TEST CONDITION .....	9
2.2 TEST CHANNEL MODE .....	10
2.3 THE WORST CASE MEASUREMENT CONFIGURATION .....	11
2.4 SUPPORT EQUIPMENT .....	12
2.5 TEST SETUP DIAGRAM .....	12
<b>3 TRANSMITTER TEST RESULT .....</b>	<b>13</b>
3.1 EMISSION BANDWIDTH.....	13
3.2 MAXIMUM CONDUCTED OUTPUT POWER .....	14
3.3 PEAK POWER SPECTRAL DENSITY.....	16
3.4 UNWANTED EMISSIONS .....	18
3.5 FREQUENCY STABILITY .....	21
<b>4 TEST EQUIPMENT AND CALIBRATION DATA .....</b>	<b>22</b>

**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 RESULTS OF FREQUENCY STABILITY**

**APPENDIX F. TEST PHOTOS**

**PHOTOGRAPHS OF EUT V01**



## Summary of Test Result

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



## Revision History



## 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 [8]
straddle		5720	144 [1]
5250-5350	n (HT40), ac (VHT40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [3]
straddle		5710	142 [1]
5250-5350	ac (VHT80)	5290	58 [1]
5470-5725		5530	106 [1]
straddle		5690	138 [1]

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	3TX
5.47-5.725GHz	802.11a	20	3TX
5.725-5.85GHz	802.11a	20	3TX
5.25-5.35GHz	802.11ac VHT20	20	3TX
5.47-5.725GHz	802.11ac VHT20	20	3TX
5.725-5.85GHz	802.11ac VHT20	20	3TX
5.25-5.35GHz	802.11ac VHT40	40	3TX
5.47-5.725GHz	802.11ac VHT40	40	3TX
5.725-5.85GHz	802.11ac VHT40	40	3TX
5.25-5.35GHz	802.11ac VHT80	80	3TX
5.47-5.725GHz	802.11ac VHT80	80	3TX
5.725-5.85GHz	802.11ac VHT80	80	3TX

Note:

- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, modulation.
- BWch is the nominal channel bandwidth.



### 1.1.2 Antenna Information

&lt;FAP-U321EV&gt;

eth1 module						
Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
A	1	-	-	PIFA Antenna	I-PEX	7.3
B	2	-	-	PIFA Antenna	I-PEX	7.3
C	3	-	-	PIFA Antenna	I-PEX	7.3

eth2 module						
Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
A	1	-	-	PIFA Antenna	I-PEX	5
B	2	-	-	PIFA Antenna	I-PEX	5
C	3	-	-	PIFA Antenna	I-PEX	5

&lt;FAP-U323EV&gt;

eth1 module						
Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
A	1	-	-	Dipole Antenna	Reversed-SMA	4.5
B	2	-	-	Dipole Antenna	Reversed-SMA	4.5
C	3	-	-	Dipole Antenna	Reversed-SMA	4.5

eth2 module						
Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
A	1	-	-	Dipole Antenna	Reversed-SMA	5
B	2	-	-	Dipole Antenna	Reversed-SMA	5
C	3	-	-	Dipole Antenna	Reversed-SMA	5



### 1.1.3 EUT Information

Identify EUT				
SW / HW	N/A			
Operational Condition				
EUT Power Type	From AC Adapter			
Beamforming Function	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/>	Without beamforming
Weather Band	<input type="checkbox"/>	With 5600~5650MHz	<input checked="" type="checkbox"/>	Without 5600~5650MHz
Type of EUT				
<input checked="" type="checkbox"/> Stand-alone				
<input type="checkbox"/> Combined (EUT where the radio part is fully integrated within another device)				
Combined Equipment - Brand Name / Model No.:	...			
<input type="checkbox"/> Plug-in radio (EUT intended for a variety of host systems)				
Host System - Brand Name / Model No.:	...			
<input type="checkbox"/> Other:				

### 1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.948	0.232	2.066m	1k
802.11ac VHT20	0.986	0.061	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.972	0.123	954.063u	3k
802.11ac VHT80	0.938	0.278	461.563u	3k

### 1.1.5 Table for Multiple Listing

The detail in the following table are all refer to the identical product.

Model	Difference	Description
FORTIAP-U321EVxxxxxx	Internal antenna	where "x" can be used as "A-Z", or "-0-9, or"-", or blank for software changes or marketing purposes only
FAP-U321EVxxxxxx		
FORTIAP-U323EVxxxxxx	External antenna	where "x" can be used as "A-Z", or "-0-9, or"-", or blank for software changes or marketing purposes only
FAP-U323EVxxxxxx		
Note 1: The sample is the same one, only the antenna configuration is different.		
Note 2: For more detailed features description, please refer to the specifications or user's manual.		



## 1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- KDB 789033 D02 v01r04
- KDB 644545 D03 v01
- KDB 662911 D01 v02r01
- ANSI C63.4-2014

## 1.3 Testing Location Information

Testing Location				
<input checked="" 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				
Test site Designation No. TW1190 with FCC.				
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)		
TEL : 886-3-656-9065 FAX : 886-3-656-9085				
Test site Designation No. TW0006 with FCC.				

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Gray	21.5°C / 61%	06/Sep/2017
Radiated	03CH09-HY	Eric	23.5°C / 55%	05/Sep/2017

## 1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	2.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	2.9 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
RF Conducted	Abbreviation	Remark
Tnom/Vnom	Tnom	20°C
-	Vnom	120V
Freq. Stability	Abbreviation	Remark
0°C	-	-
10°C	-	-
20°C	-	-
30°C	-	-
40°C	-	-
50°C	-	-
138V	-	-
120V	-	-
102V	-	-



## 2.2 Test Channel Mode

Test Software version	accessMTool_REL_3_0_0_3
Mode	Power Setting
802.11a_Nss1,(6Mbps)_3TX	-
5260MHz	44
5300MHz	43
5320MHz	43
5500MHz	54
5580MHz	54
5700MHz	53
5720MHz Straddle 5.47-5.725GHz	53
5720MHz Straddle 5.725-5.85GHz	53
802.11ac VHT20_Nss1,(MCS0)_3TX	-
5260MHz	43
5300MHz	43
5320MHz	43
5500MHz	54
5580MHz	53
5700MHz	52
5720MHz Straddle 5.47-5.725GHz	52
5720MHz Straddle 5.725-5.85GHz	52
802.11ac VHT40_Nss1,(MCS0)_3TX	-
5270MHz	44
5310MHz	43
5510MHz	63
5550MHz	63
5670MHz	65
5710MHz Straddle 5.47-5.725GHz	65
5710MHz Straddle 5.725-5.85GHz	65
802.11ac VHT80_Nss1,(MCS0)_3TX	-
5290MHz	44
5530MHz	60
5690MHz Straddle 5.47-5.725GHz	72
5690MHz Straddle 5.725-5.85GHz	72



## 2.3 The Worst Case Measurement Configuration

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

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Emissions in Restricted Frequency Bands
<b>Test Condition</b>	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.
<b>Operating Mode</b>	CTX
1	Adapter mode <FAP-U321EV>
2	Adapter mode <FAP-U323EV>
<b>Orthogonal Planes of EUT</b>	<b>X Plane</b>
<b>Worst Planes of EUT</b>	<b>Y Plane</b>
<b>Z Plane</b>	
	V

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis
<b>Test Condition</b>	Radiated measurement
<b>Operating Mode</b>	CTX
1	Adapter mode <FAP-U321EV>
2	Adapter mode <FAP-U323EV>

Refer to Sporton Test Report No.: FA751119 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.



## 2.4 Support Equipment

Support Equipment - RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	Doc
2	Adapter for NB	DELL	HA65NM130	Doc
3	AC Source	GW	APS-9102	Doc

## 2.5 Test Setup Diagram

Test Setup Diagram - Radiated Test				
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Line	No	1.8m	-
2	DC Power Line	No	1.5m	-



### 3 Transmitter Test Result

#### 3.1 Emission Bandwidth

##### 3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
<b>UNII Devices</b>	
<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 checked="" type="checkbox"/> For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.	

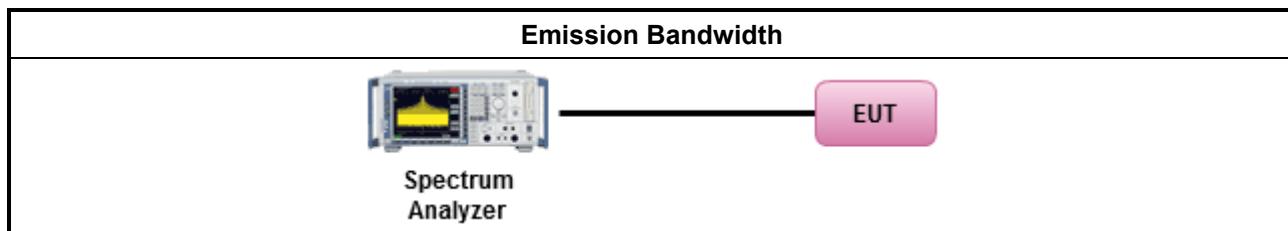
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 6.6 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	
<b>UNII Devices</b>	
<input type="checkbox"/> For the 5.15-5.25 GHz band:	<ul style="list-style-type: none"><li>▪ Outdoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>. e.i.r.p. at any elevation angle above 30 degrees <math>\leq 125</math>mW [21dBm]</li><li>▪ Indoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math></li><li>▪ Point-to-point AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 23)</math>.</li><li>▪ Mobile or Portable Client: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 250 mW. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 24 - (G_{TX} - 6)</math>.</li></ul>
<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 checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	<ul style="list-style-type: none"><li>▪ Point-to-multipoint systems (P2M): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li><li>▪ Point-to-point systems (P2P): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W.</li></ul>
<p><math>P_{Out}</math> = maximum conducted output power in dBm, <math>G_{TX}</math> = the maximum transmitting antenna directional gain in dBi.</p>	

### 3.2.2 Measuring Instruments

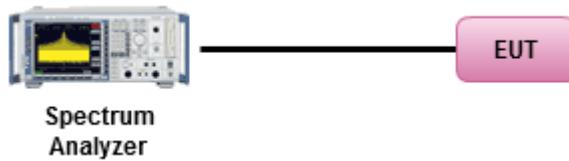
Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

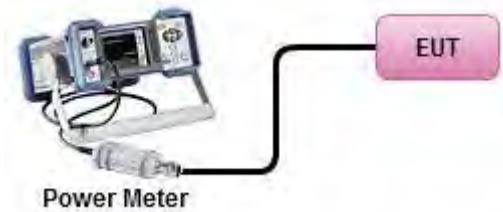
Test Method	
▪ Maximum Conducted Output Power	
Duty cycle $\geq$ 98%	<input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
Duty cycle $<$ 98%	<input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter and average over on/off periods with duty factor	<input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method PM (using an RF average power meter).
▪ For conducted measurement.	
	<ul style="list-style-type: none"><li>▪ If the EUT supports multiple transmit chains using options given below: Refer as 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.</li><li>▪ If multiple transmit chains, EIRP calculation could be following as methods: <math>P_{total} = P_1 + P_2 + \dots + P_n</math> (calculated in linear unit [mW] and transfer to log unit [dBm]) <math>EIRP_{total} = P_{total} + DG</math></li></ul>

### 3.2.4 Test Setup

#### RF Output Power (Spectrum Analyzer)



#### RF Output Power (Power Meter)



### 3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



### 3.3 Peak Power Spectral Density

#### 3.3.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
<b>UNII Devices</b>	
<input type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"><li>▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li><li>▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li><li>▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 23)</math>.</li><li>▪ Mobile or Portable Client: the peak power spectral density (PPSD) <math>\leq 11</math> dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then PPSD= <math>11 - (G_{TX} - 6)</math>.</li></ul>
<input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq 11$ 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) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then PPSD= $11 - (G_{TX} - 6)$ .	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"><li>▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then PPSD= <math>30 - (G_{TX} - 6)</math>.</li><li>▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li></ul>
<b>PPSD</b> = 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 <b>G<sub>TX</sub></b> = the maximum transmitting antenna directional gain in dBi.	

#### 3.3.2 Measuring Instruments

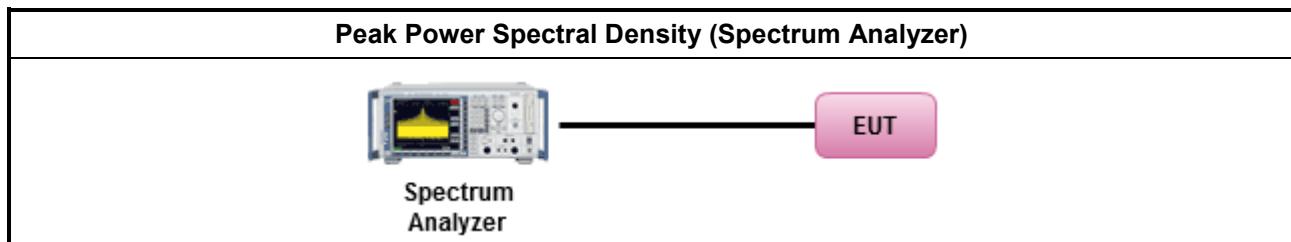
Refer a test equipment and calibration data table in this test report.



### 3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"><li>▪ 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:</li></ul>	
<input type="checkbox"/> Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
Duty cycle $\geq$ 98%	
<input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
Duty cycle < 98%	
<input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
<ul style="list-style-type: none"><li>▪ For conducted measurement.</li></ul>	
<ul style="list-style-type: none"><li>▪ If the EUT supports multiple transmit chains using options given below:</li></ul>	
<input checked="" type="checkbox"/> Measure and sum the spectra across the outputs. Refer as 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.	
<ul style="list-style-type: none"><li>▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: <math>PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n</math> (calculated in linear unit [mW] and transfer to log unit [dBm]) <math>EIRP_{total} = PPSD_{total} + DG</math></li></ul>	

### 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 Radiated Unwanted Emissions Limit

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2 dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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).



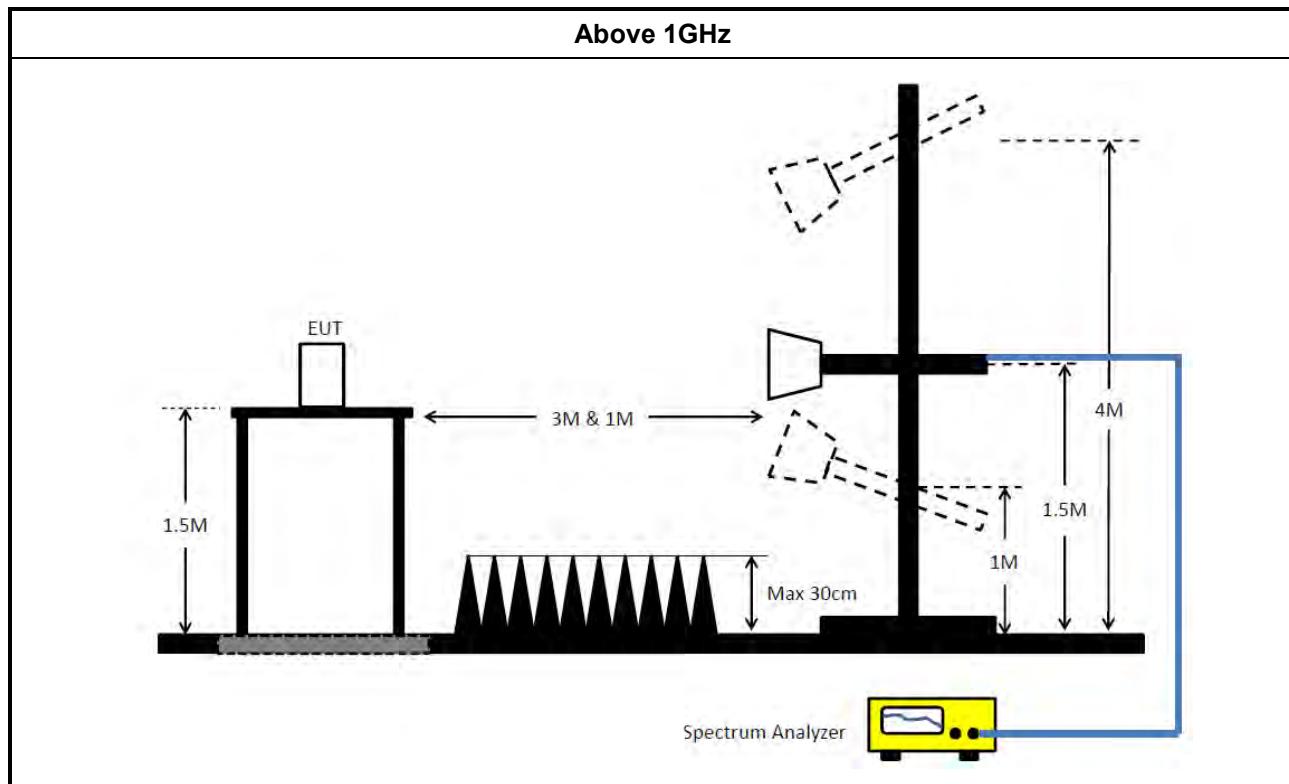
### 3.4.2 Measuring Instruments

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"><li>▪ 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).</li></ul>
<ul style="list-style-type: none"><li>▪ The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li></ul>
<ul style="list-style-type: none"><li>▪ For the transmitter unwanted emissions shall be measured using following options below:<ul style="list-style-type: none"><li>▪ Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.</li><li>▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.</li><li><input checked="" type="checkbox"/> Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.</li><li><input checked="" type="checkbox"/> Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.</li></ul></li></ul>
<ul style="list-style-type: none"><li>▪ For radiated measurement.<ul style="list-style-type: none"><li>▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.</li><li>▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li><li>▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li></ul></li></ul>
<ul style="list-style-type: none"><li>▪ The any unwanted emissions level shall not exceed the fundamental emission level.</li><li>▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.</li></ul>

### 3.4.4 Test Setup



### 3.4.5 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



## 3.5 Frequency Stability

### 3.5.1 Frequency Stability Limit

Frequency Stability Limit	
<b>UNII Devices</b>	
<ul style="list-style-type: none"><li>▪ In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.</li></ul>	
<b>IEEE Std. 802.11</b>	
<ul style="list-style-type: none"><li>▪ The transmitter center frequency tolerance shall be <math>\pm 20</math> ppm maximum for the 5 GHz band.</li></ul>	

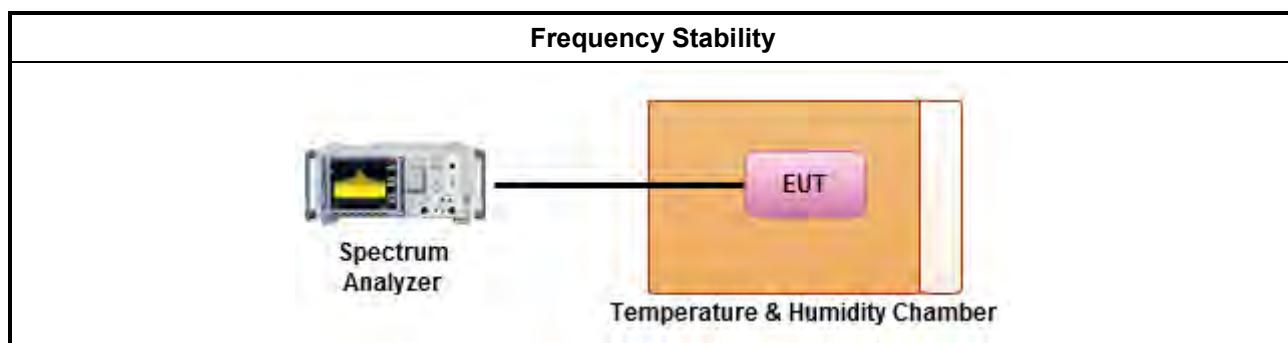
### 3.5.2 Measuring Instruments

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

### 3.5.3 Test Procedures

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

### 3.5.4 Test Setup



### 3.5.5 Test Result of Frequency Stability

Refer as Appendix E



## 4 Test Equipment and Calibration Data

### Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	30/Dec/2016	29/Dec/2017
Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	24/Feb/2017	23/Feb/2018
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	24/Feb/2017	23/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
Temp. and Humidity Chamber	Giant Force	GTH-225-40-CP-AR	MAA1611-005	-40 ~ 100°C	21/Nov/2016	20/Nov/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY677/3	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY678/3	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10717/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY22998/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017

### Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	28/Jun/2017	27/Jun/2018
Amplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	25/Apr/2017	24/Apr/2018
Spectrum Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	20/Jul/2017	19/Jul/2018
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA9120D 1534	1GHz~18GHz	28/Apr/2017	27/Apr/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA917061 4	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
Amplifier	MITEQ	JS44-18004000-3 3-8P	1840917	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
RF Cable-high	Jye Bao	RG142	03CH09-HY	1GHz ~ 40GHz	02/Feb/2017	01/Feb/2018



## 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)_3TX	21.575M	16.642M	16M6D1D	21.35M	16.542M
802.11ac VHT20_Nss1,(MCS0)_3TX	21.925M	17.866M	17M9D1D	21.525M	17.741M
802.11ac VHT40_Nss1,(MCS0)_3TX	56.4M	36.332M	36M3D1D	40.7M	36.182M
802.11ac VHT80_Nss1,(MCS0)_3TX	82M	75.762M	75M8D1D	81.3M	75.562M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	21.65M	16.592M	16M6D1D	15.585M	13.223M
802.11ac VHT20_Nss1,(MCS0)_3TX	21.875M	17.791M	17M8D1D	15.63M	13.823M
802.11ac VHT40_Nss1,(MCS0)_3TX	46.15M	36.332M	36M3D1D	36.015M	32.919M
802.11ac VHT80_Nss1,(MCS0)_3TX	99.375M	75.862M	75M9D1D	77.55M	72.564M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	3.26M	4.018M	4M02D1D	3.18M	3.998M
802.11ac VHT20_Nss1,(MCS0)_3TX	3.82M	4.318M	4M32D1D	3.8M	4.278M
802.11ac VHT40_Nss1,(MCS0)_3TX	3.18M	3.758M	3M76D1D	3.16M	3.658M
802.11ac VHT80_Nss1,(MCS0)_3TX	3.18M	9.955M	9M96D1D	3.16M	4.298M

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

**Max-OBW** = Maximum 99% occupied bandwidth;

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

**Min-OBW** = Minimum 99% occupied bandwidth;

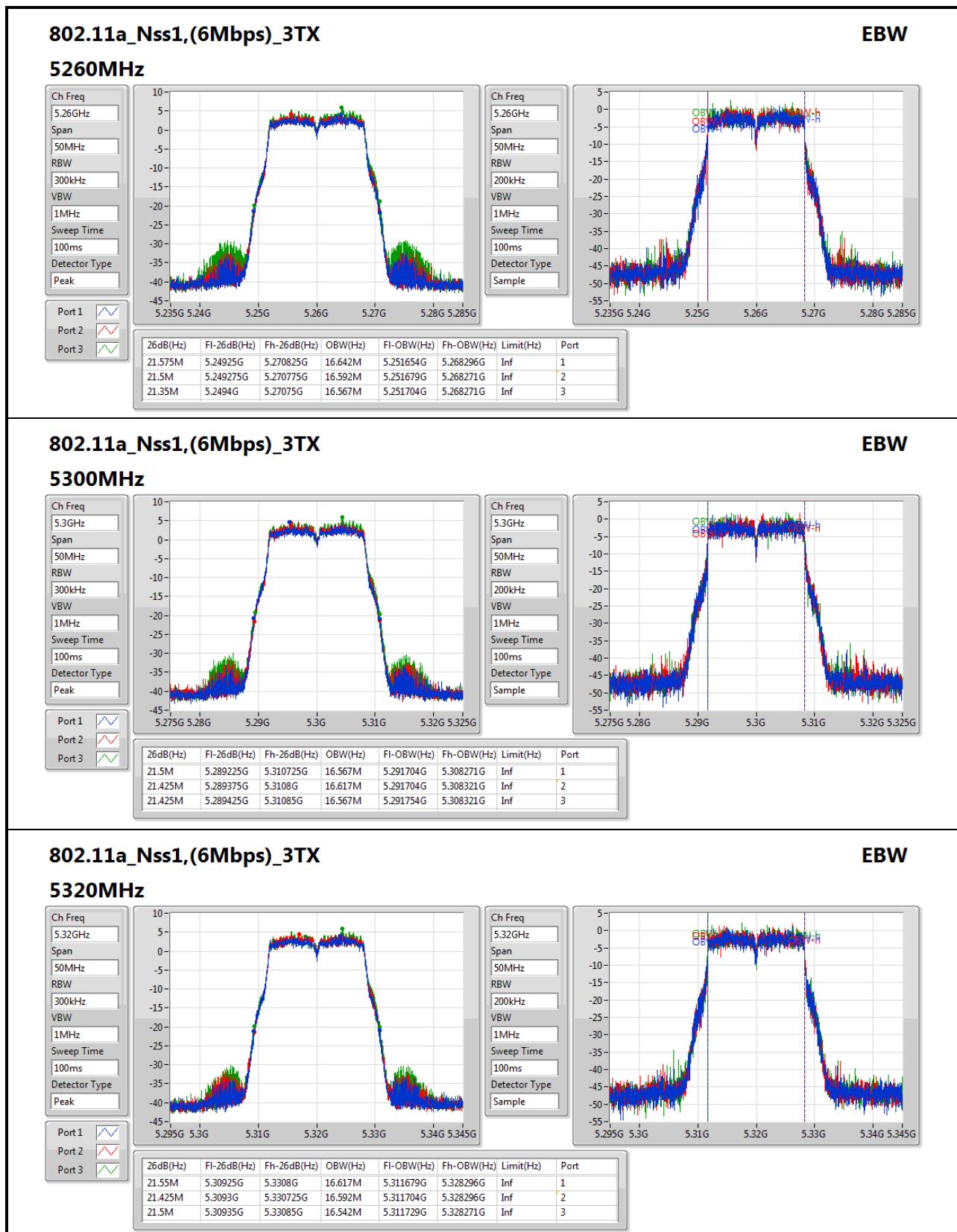


## Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
5260MHz_TnomVnom	Pass	Inf	21.575M	16.642M	21.5M	16.592M	21.35M	16.567M
5300MHz_TnomVnom	Pass	Inf	21.5M	16.567M	21.425M	16.617M	21.425M	16.567M
5320MHz_TnomVnom	Pass	Inf	21.55M	16.617M	21.425M	16.592M	21.5M	16.542M
5500MHz_TnomVnom	Pass	Inf	21.65M	16.542M	21.55M	16.592M	21.55M	16.567M
5580MHz_TnomVnom	Pass	Inf	21.65M	16.542M	21.45M	16.567M	21.325M	16.567M
5700MHz_TnomVnom	Pass	Inf	21.6M	16.592M	21.275M	16.567M	21.475M	16.567M
5720MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	15.675M	13.253M	15.585M	13.223M	15.63M	13.223M
5720MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.26M	4.018M	3.18M	4.018M	3.18M	3.998M
802.11ac VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5260MHz_TnomVnom	Pass	Inf	21.925M	17.766M	21.65M	17.741M	21.8M	17.766M
5300MHz_TnomVnom	Pass	Inf	21.9M	17.766M	21.525M	17.766M	21.55M	17.791M
5320MHz_TnomVnom	Pass	Inf	21.8M	17.866M	21.525M	17.791M	21.625M	17.766M
5500MHz_TnomVnom	Pass	Inf	21.75M	17.741M	21.6M	17.766M	21.575M	17.716M
5580MHz_TnomVnom	Pass	Inf	21.875M	17.716M	21.425M	17.791M	21.35M	17.766M
5700MHz_TnomVnom	Pass	Inf	21.75M	17.741M	21.725M	17.766M	21.55M	17.766M
5720MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	15.705M	13.868M	15.69M	13.853M	15.63M	13.823M
5720MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.8M	4.318M	3.82M	4.318M	3.82M	4.278M
802.11ac VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5270MHz_TnomVnom	Pass	Inf	56.4M	36.182M	46.05M	36.282M	47.2M	36.282M
5310MHz_TnomVnom	Pass	Inf	49.8M	36.282M	40.7M	36.282M	45.25M	36.332M
5510MHz_TnomVnom	Pass	Inf	40.5M	36.132M	40.05M	36.332M	45.75M	36.282M
5550MHz_TnomVnom	Pass	Inf	45.95M	36.232M	40M	36.282M	46.15M	36.232M
5670MHz_TnomVnom	Pass	Inf	45.5M	36.282M	39.7M	36.182M	42.65M	36.282M
5710MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	37.31M	32.954M	36.015M	33.058M	39.445M	32.919M
5710MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.16M	3.658M	3.18M	3.678M	3.18M	3.758M
802.11ac VHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5290MHz_TnomVnom	Pass	Inf	82M	75.662M	81.9M	75.562M	81.3M	75.762M
5530MHz_TnomVnom	Pass	Inf	82.1M	75.762M	81.7M	75.662M	81.9M	75.862M
5690MHz Straddle 5.47-5.725GHz_TnomVnom	Pass	Inf	77.55M	72.564M	97.8M	72.564M	99.375M	72.639M
5690MHz Straddle 5.725-5.85GHz_TnomVnom	Pass	500k	3.16M	4.298M	3.18M	7.216M	3.16M	9.955M

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

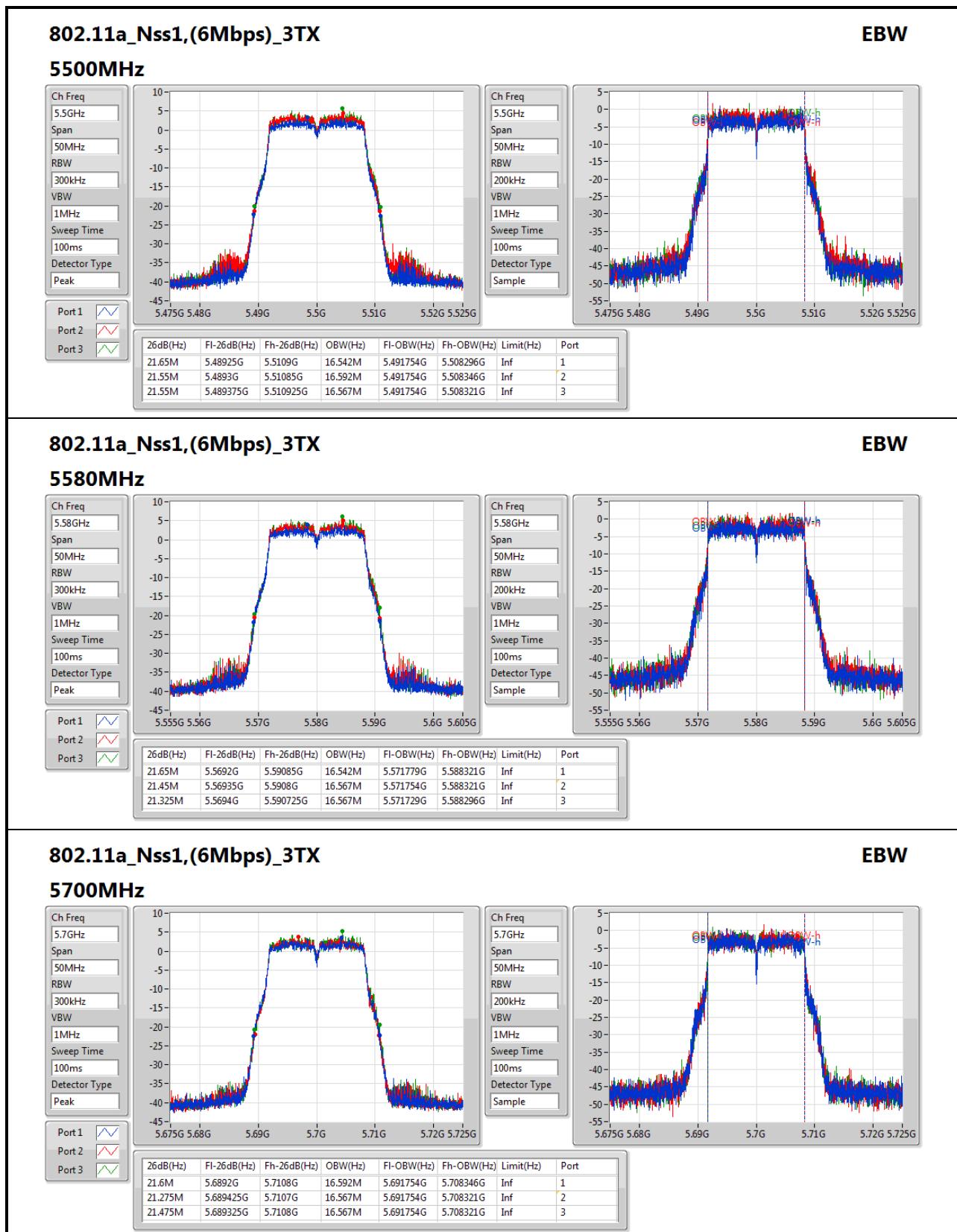
**Port X-OBW** = Port X 99% occupied bandwidth;

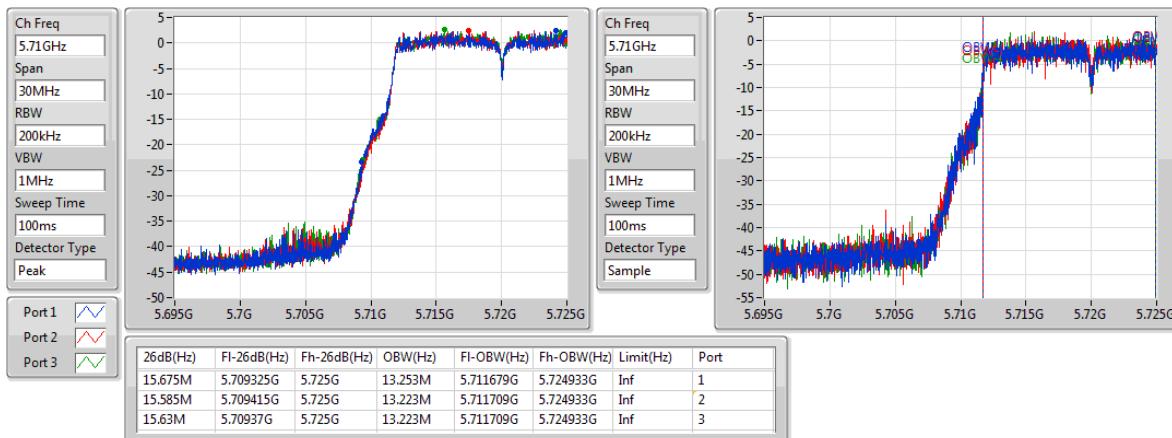
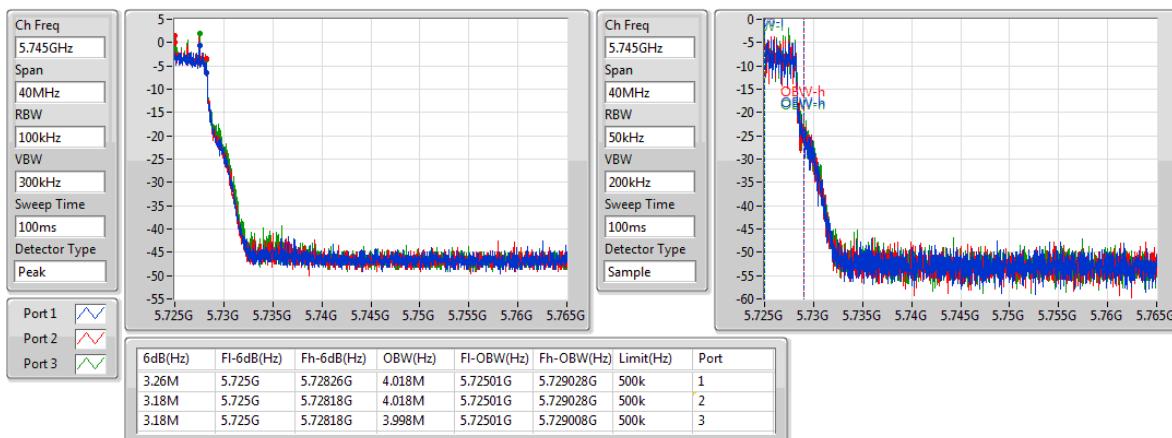
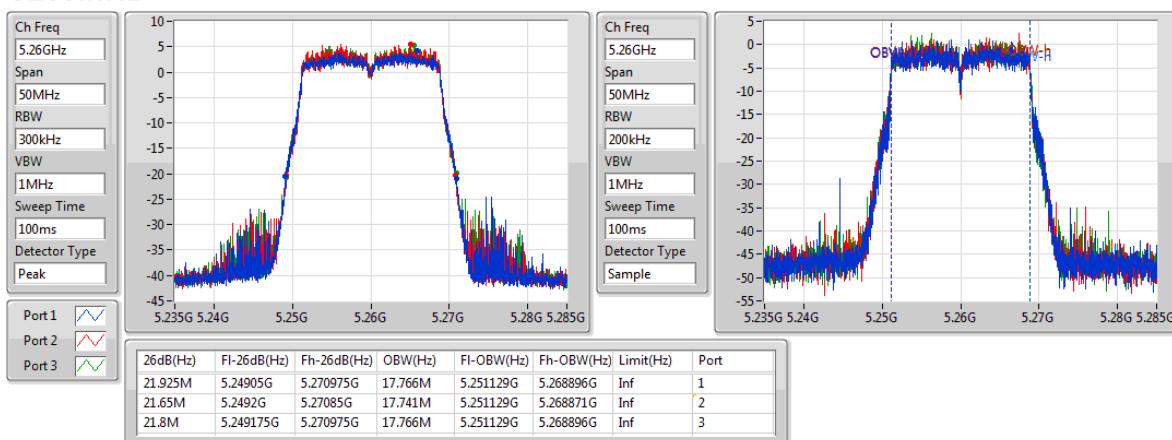


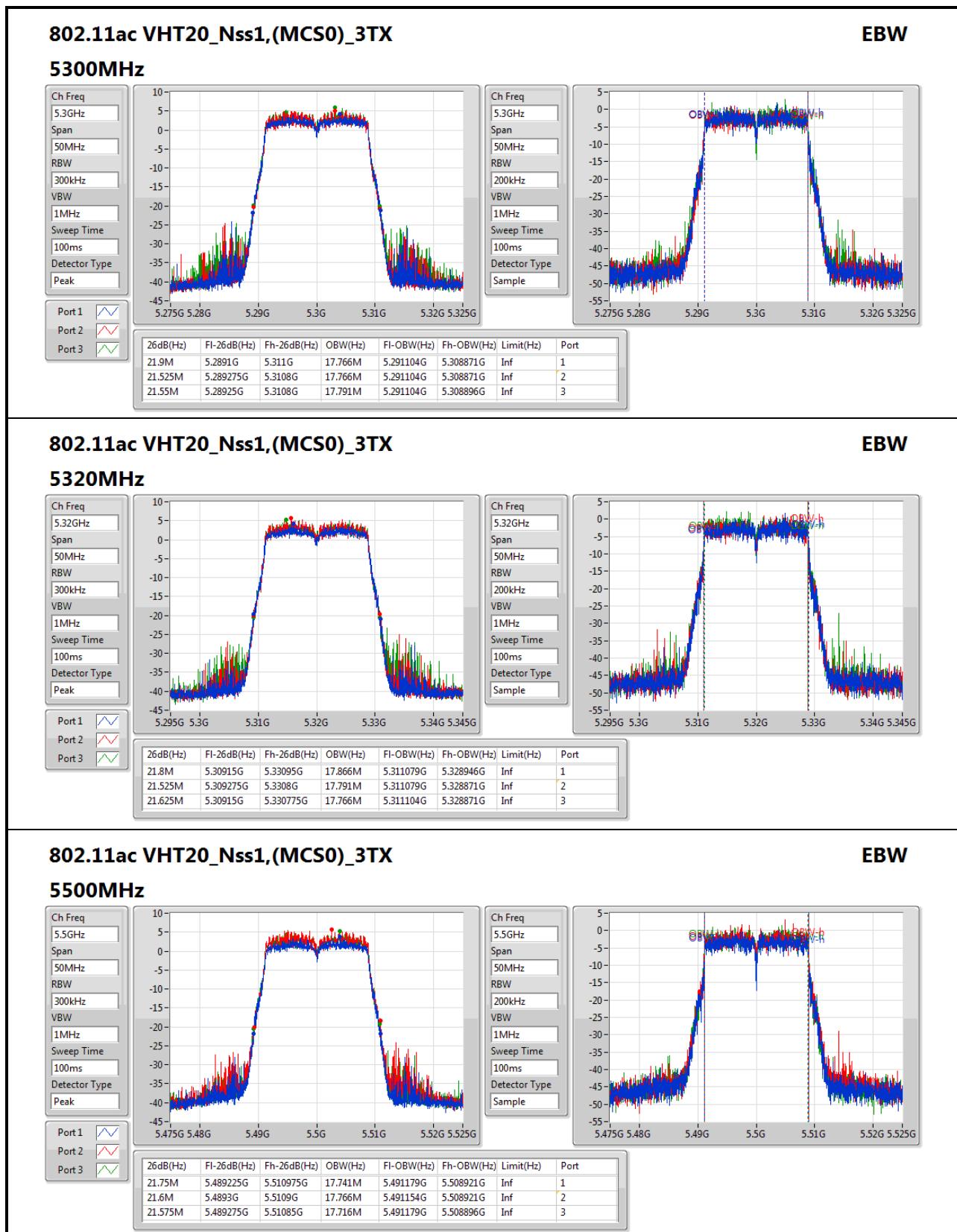


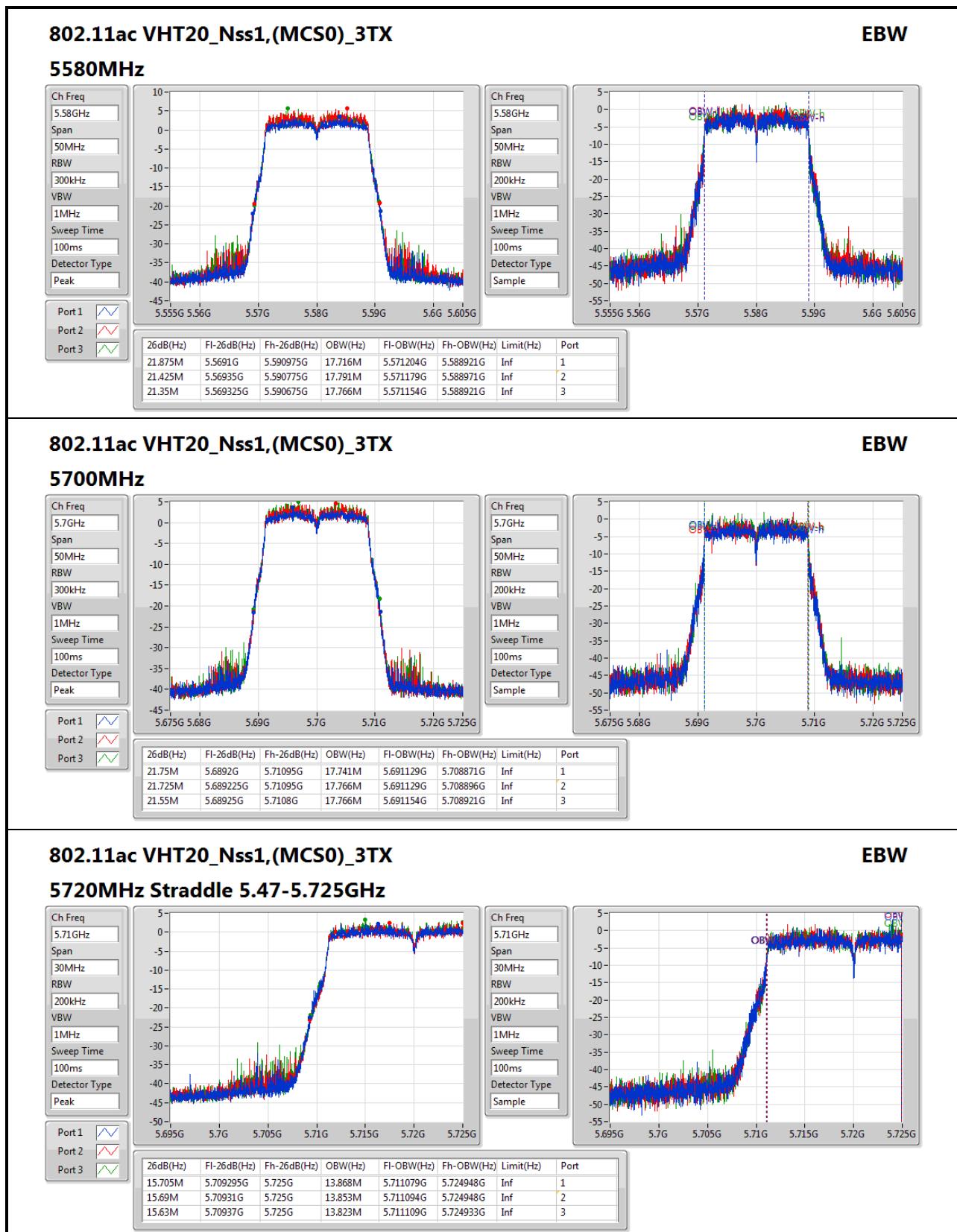
## EBW Result

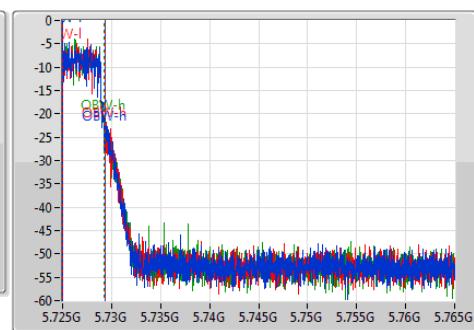
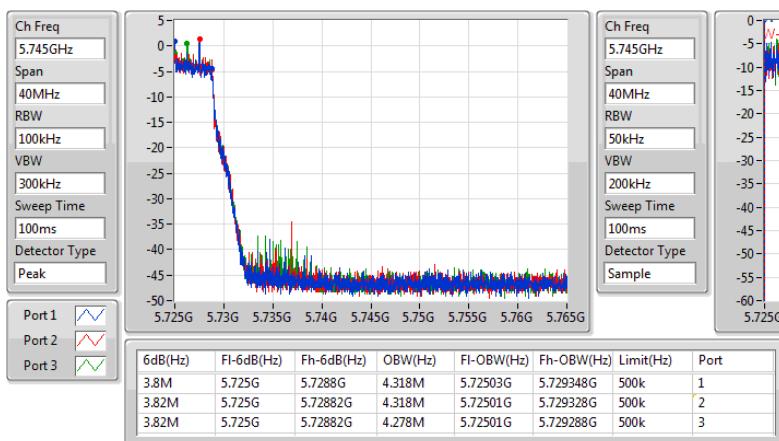
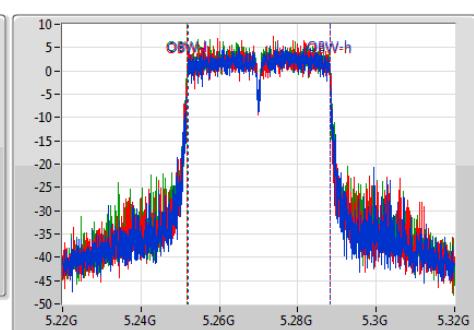
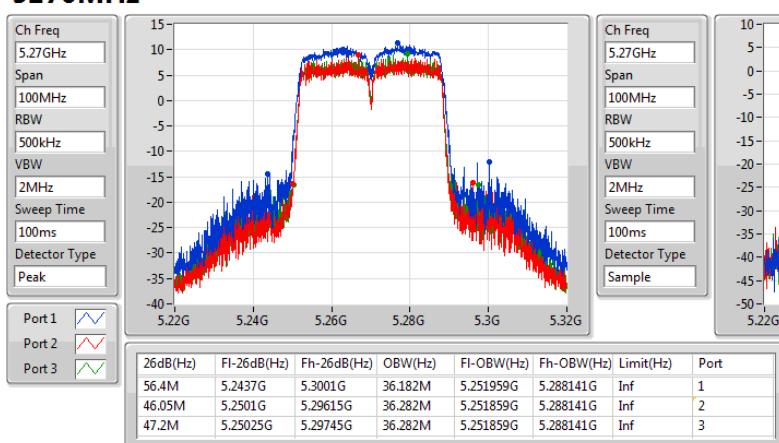
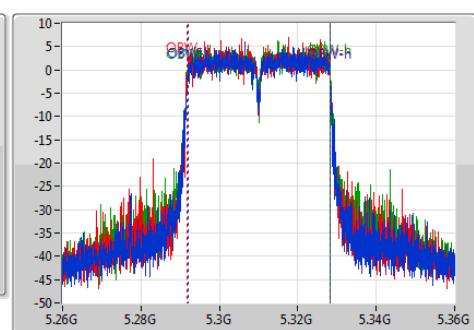
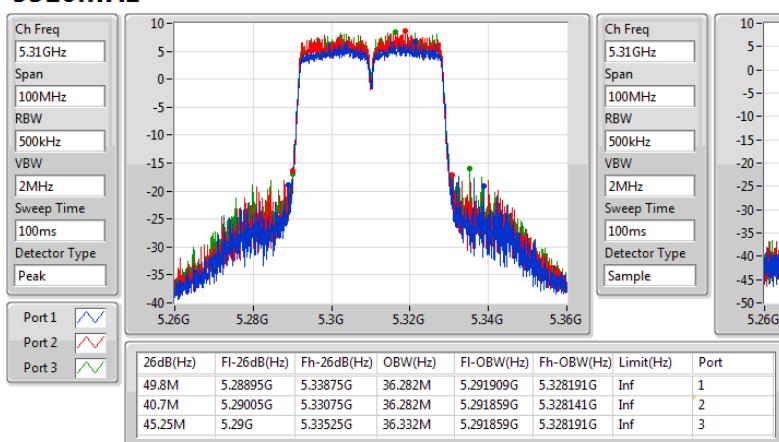
## Appendix A

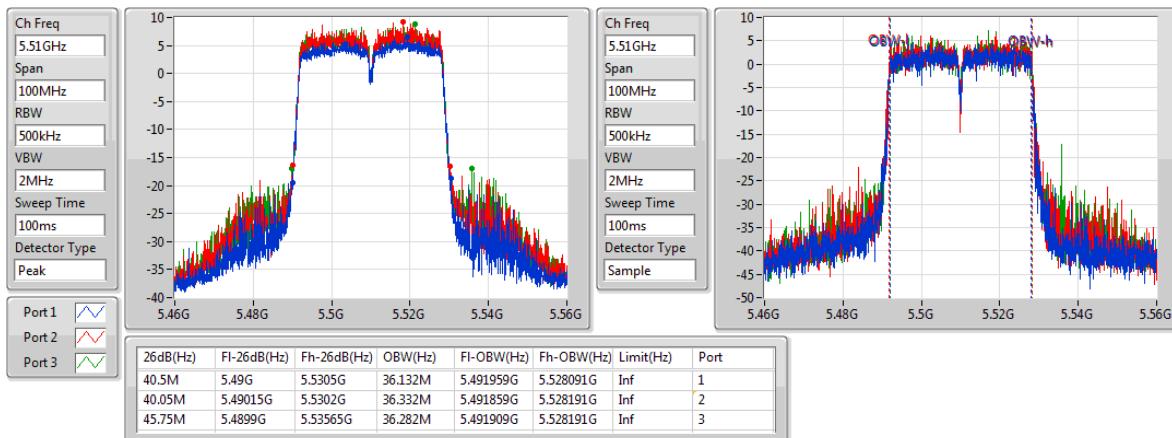
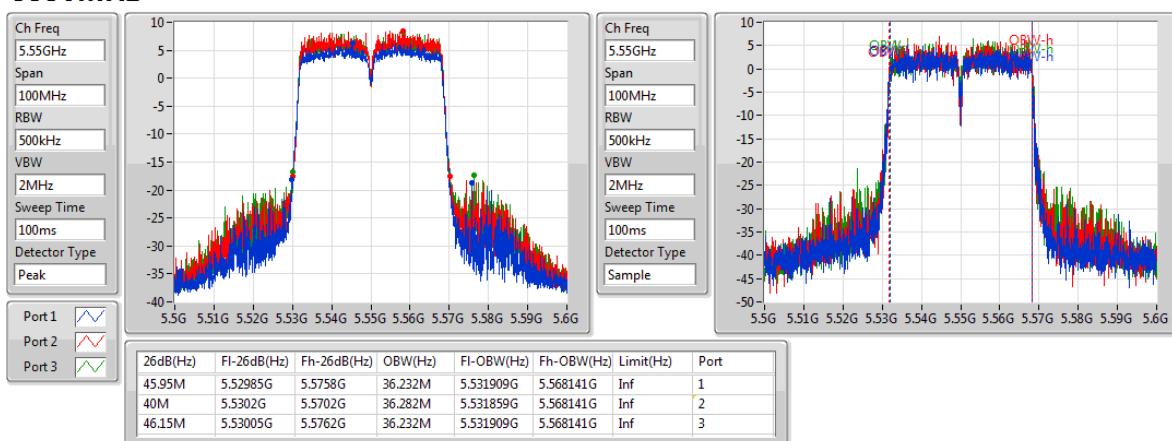
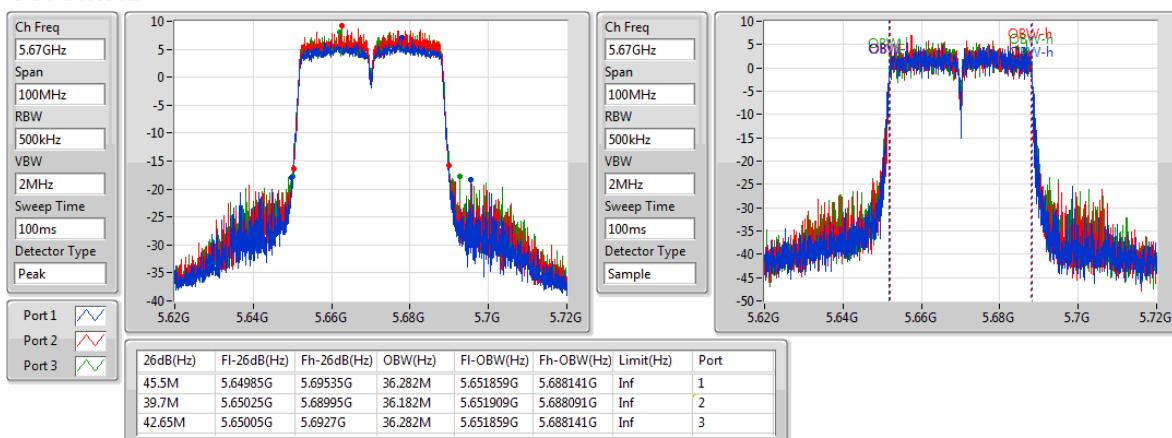


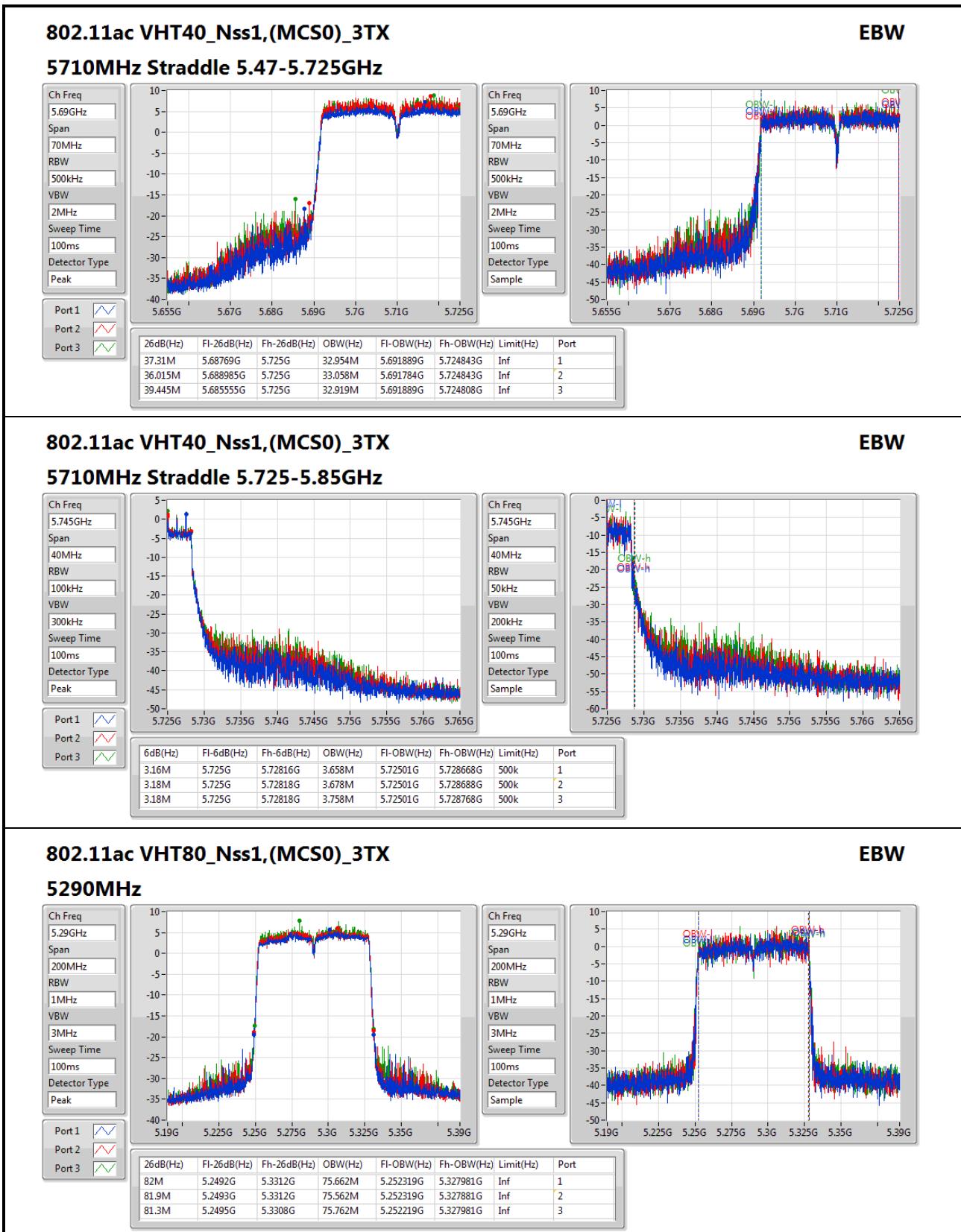
**802.11a\_Nss1,(6Mbps)\_3TX****EBW****5720MHz Straddle 5.47-5.725GHz****802.11a\_Nss1,(6Mbps)\_3TX****EBW****5720MHz Straddle 5.725-5.85GHz****802.11ac VHT20\_Nss1,(MCS0)\_3TX****EBW****5260MHz**

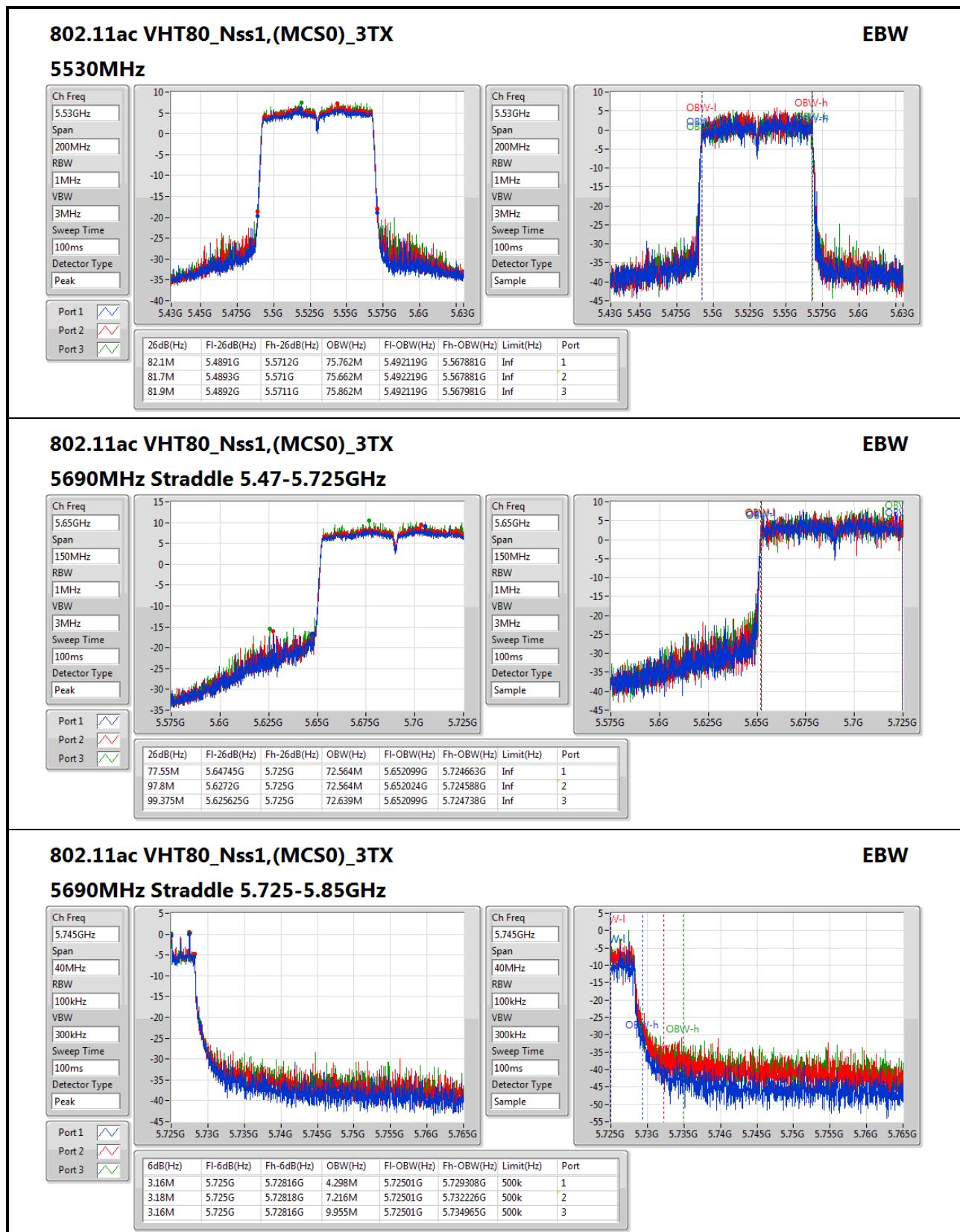




**802.11ac VHT20\_Nss1,(MCS0)\_3TX****EBW****5720MHz Straddle 5.725-5.85GHz****802.11ac VHT40\_Nss1,(MCS0)\_3TX****EBW****5270MHz****802.11ac VHT40\_Nss1,(MCS0)\_3TX****EBW****5310MHz**

**802.11ac VHT40\_Nss1,(MCS0)\_3TX**
**EBW**
**5510MHz**

**802.11ac VHT40\_Nss1,(MCS0)\_3TX**
**EBW**
**5550MHz**

**802.11ac VHT40\_Nss1,(MCS0)\_3TX**
**EBW**
**5670MHz**








## Summary

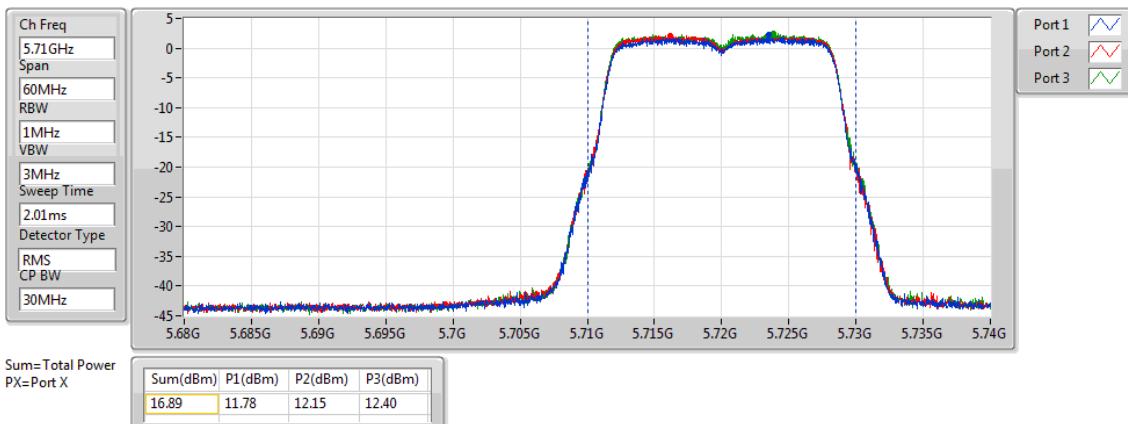
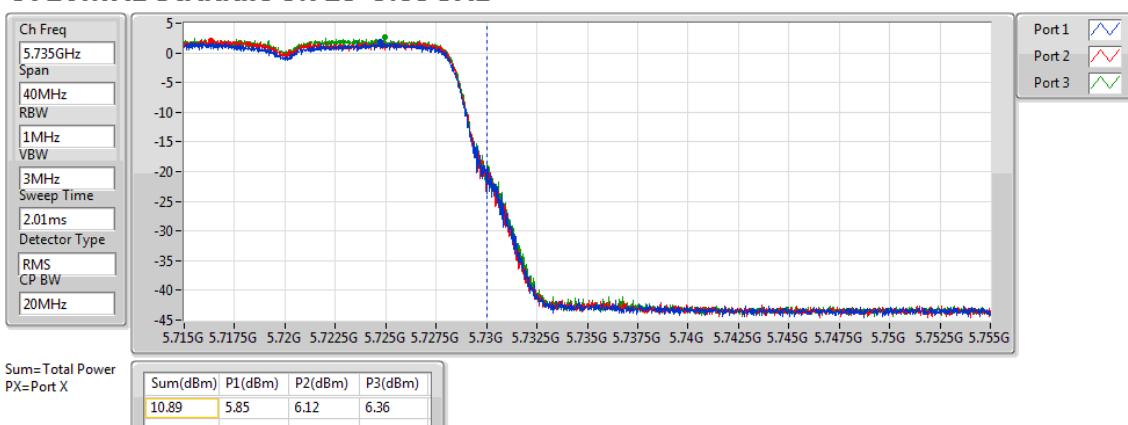
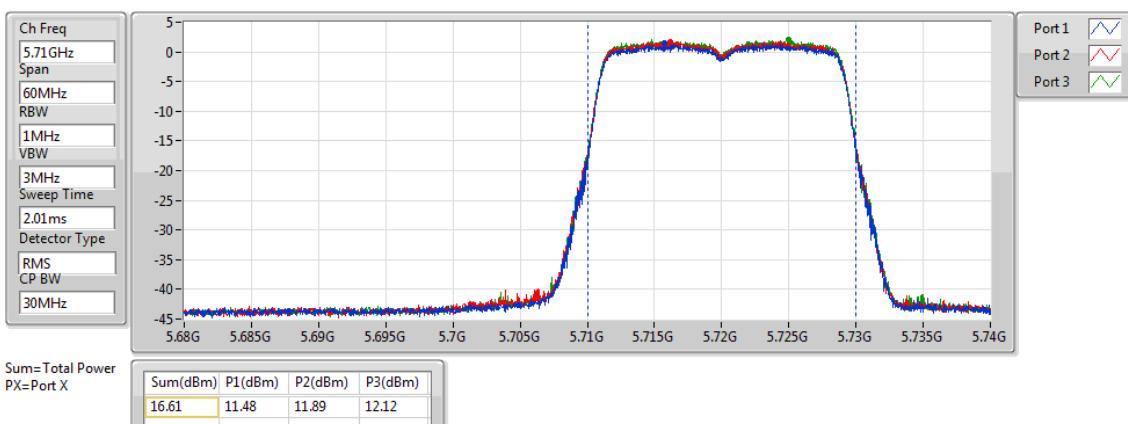
Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	15.64	0.03664	22.94	0.19679
802.11ac VHT20_Nss1,(MCS0)_3TX	15.68	0.03698	22.98	0.19861
802.11ac VHT40_Nss1,(MCS0)_3TX	15.64	0.03664	22.94	0.19679
802.11ac VHT80_Nss1,(MCS0)_3TX	15.43	0.03491	22.73	0.18750
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	17.72	0.05916	25.02	0.31769
802.11ac VHT20_Nss1,(MCS0)_3TX	17.48	0.05598	24.78	0.30061
802.11ac VHT40_Nss1,(MCS0)_3TX	20.88	0.12246	28.18	0.65766
802.11ac VHT80_Nss1,(MCS0)_3TX	22.47	0.17660	29.77	0.94842
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	10.89	0.01227	18.19	0.06592
802.11ac VHT20_Nss1,(MCS0)_3TX	11.02	0.01265	18.32	0.06792
802.11ac VHT40_Nss1,(MCS0)_3TX	10.50	0.01122	17.80	0.06026
802.11ac VHT80_Nss1,(MCS0)_3TX	8.82	0.00762	16.12	0.04093

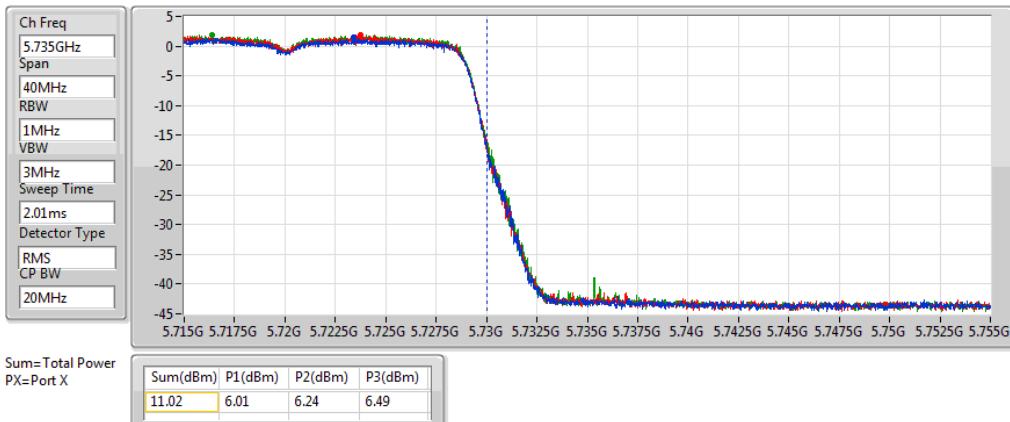
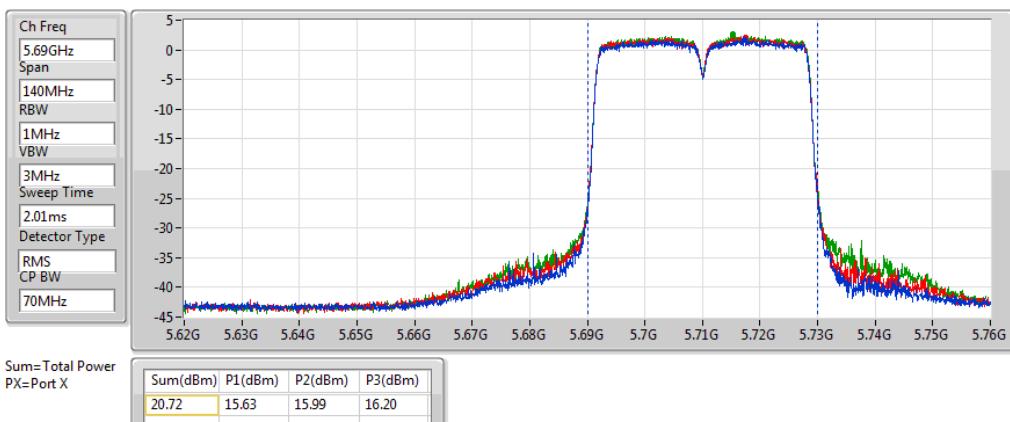
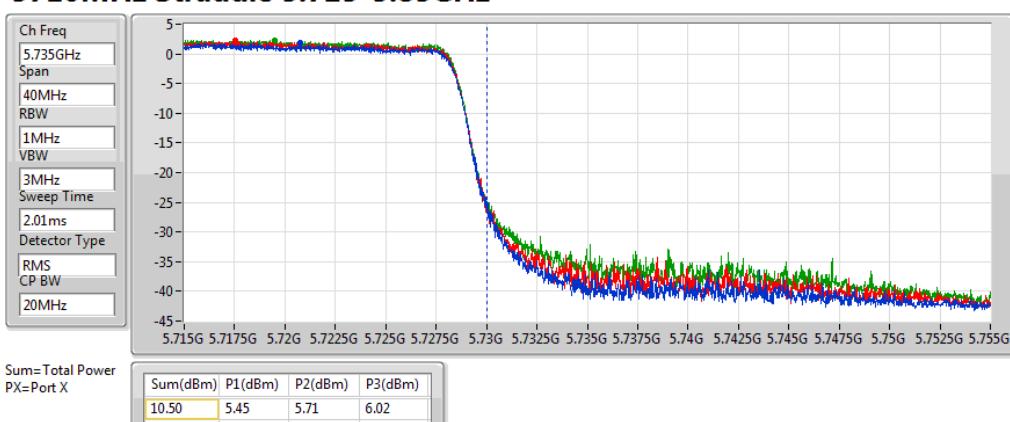


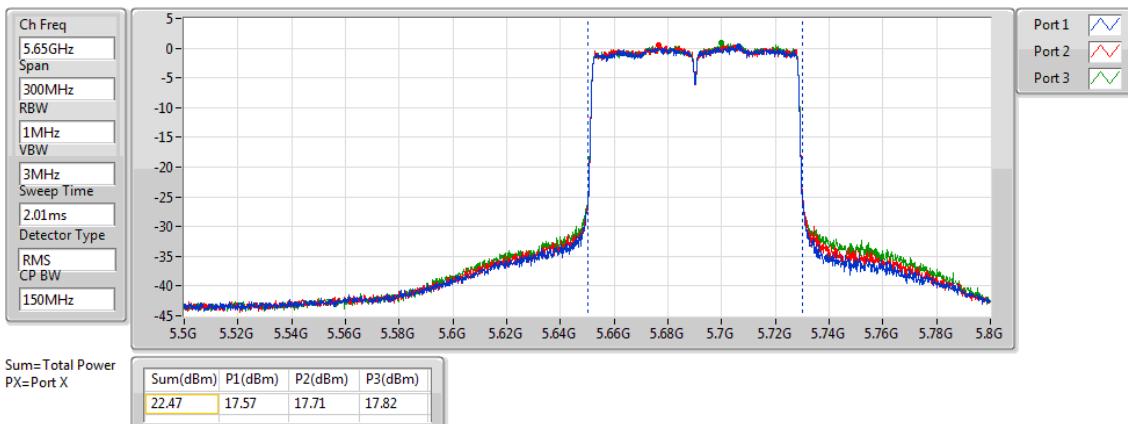
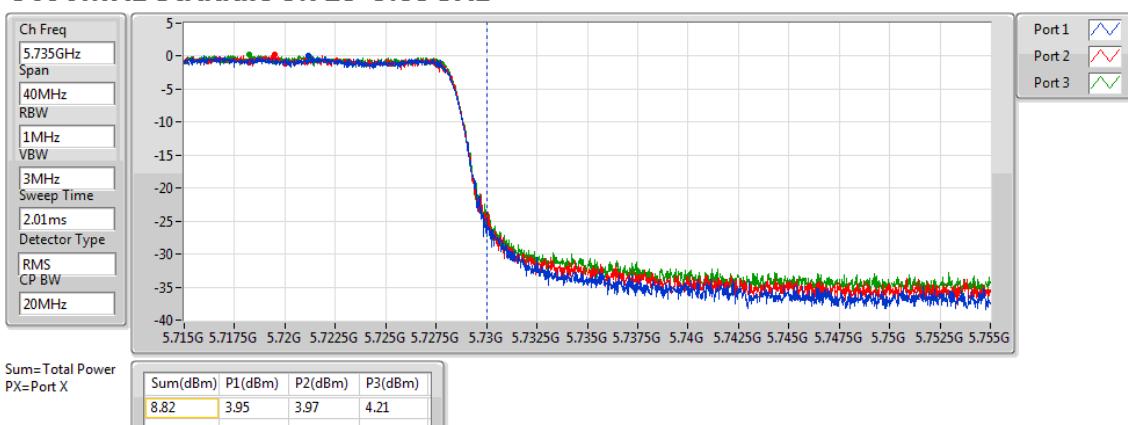
## Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-
5260MHz	Pass	7.30	10.70	10.92	10.98	15.64	22.68	22.94	30.00
5300MHz	Pass	7.30	10.63	10.90	10.98	15.61	22.68	22.91	30.00
5320MHz	Pass	7.30	10.69	10.81	11.10	15.64	22.68	22.94	30.00
5500MHz	Pass	7.30	12.09	12.99	12.83	17.43	22.68	24.73	30.00
5580MHz	Pass	7.30	12.30	13.09	12.96	17.57	22.68	24.87	30.00
5700MHz	Pass	7.30	12.58	12.97	13.26	17.72	22.68	25.02	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.30	11.78	12.15	12.40	16.89	21.63	24.19	28.93
5720MHz Straddle 5.725-5.85GHz	Pass	7.30	5.85	6.12	6.36	10.89	28.70	18.19	36.00
802.11ac VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5260MHz	Pass	7.30	10.60	10.85	11.08	15.62	22.68	22.92	30.00
5300MHz	Pass	7.30	10.65	10.91	11.16	15.68	22.68	22.98	30.00
5320MHz	Pass	7.30	10.76	10.94	10.99	15.67	22.68	22.97	30.00
5500MHz	Pass	7.30	11.91	12.95	12.90	17.38	22.68	24.68	30.00
5580MHz	Pass	7.30	11.97	12.86	12.81	17.34	22.68	24.64	30.00
5700MHz	Pass	7.30	12.43	12.79	12.88	17.48	22.68	24.78	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.30	11.48	11.89	12.12	16.61	21.64	23.91	28.94
5720MHz Straddle 5.725-5.85GHz	Pass	7.30	6.01	6.24	6.49	11.02	28.70	18.32	36.00
802.11ac VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5270MHz	Pass	7.30	10.74	11.26	10.57	15.64	22.68	22.94	30.00
5310MHz	Pass	7.30	10.48	10.94	10.35	15.37	22.68	22.67	30.00
5510MHz	Pass	7.30	15.22	15.99	16.11	20.56	22.68	27.86	30.00
5550MHz	Pass	7.30	15.42	16.15	16.13	20.68	22.68	27.98	30.00
5670MHz	Pass	7.30	15.97	16.10	16.24	20.88	22.68	28.18	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.30	15.63	15.99	16.20	20.72	22.68	28.02	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.30	5.45	5.71	6.02	10.50	28.70	17.80	36.00
802.11ac VHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5290MHz	Pass	7.30	10.40	10.75	10.82	15.43	22.68	22.73	30.00
5530MHz	Pass	7.30	14.47	15.00	14.96	19.59	22.68	26.89	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.30	17.57	17.71	17.82	22.47	22.68	29.77	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.30	3.95	3.97	4.21	8.82	28.70	16.12	36.00

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

**802.11a\_Nss1,(6Mbps)\_3TX****AV Power****5720MHz Straddle 5.47-5.725GHz****802.11a\_Nss1,(6Mbps)\_3TX****AV Power****5720MHz Straddle 5.725-5.85GHz****802.11ac VHT20\_Nss1,(MCS0)\_3TX****AV Power****5720MHz Straddle 5.47-5.725GHz**

**802.11ac VHT20\_Nss1,(MCS0)\_3TX****AV Power****5720MHz Straddle 5.725-5.85GHz****802.11ac VHT40\_Nss1,(MCS0)\_3TX****AV Power****5710MHz Straddle 5.47-5.725GHz****802.11ac VHT40\_Nss1,(MCS0)\_3TX****AV Power****5710MHz Straddle 5.725-5.85GHz**

**802.11ac VHT80\_Nss1,(MCS0)\_3TX****AV Power****5690MHz Straddle 5.47-5.725GHz****802.11ac VHT80\_Nss1,(MCS0)\_3TX****AV Power****5690MHz Straddle 5.725-5.85GHz**

**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_3TX	3.05	15.12
802.11ac VHT20_Nss1,(MCS0)_3TX	3.10	15.17
802.11ac VHT40_Nss1,(MCS0)_3TX	-0.12	11.95
802.11ac VHT80_Nss1,(MCS0)_3TX	-3.27	8.80
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_3TX	4.91	16.98
802.11ac VHT20_Nss1,(MCS0)_3TX	4.85	16.92
802.11ac VHT40_Nss1,(MCS0)_3TX	4.91	16.98
802.11ac VHT80_Nss1,(MCS0)_3TX	3.27	15.34
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_3TX	3.11	15.18
802.11ac VHT20_Nss1,(MCS0)_3TX	3.03	15.10
802.11ac VHT40_Nss1,(MCS0)_3TX	2.79	14.86
802.11ac VHT80_Nss1,(MCS0)_3TX	1.12	13.19

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

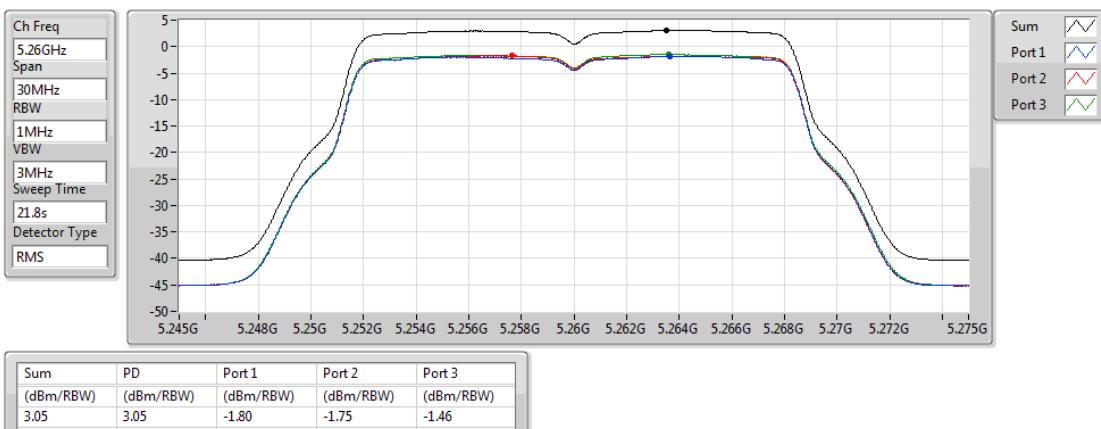
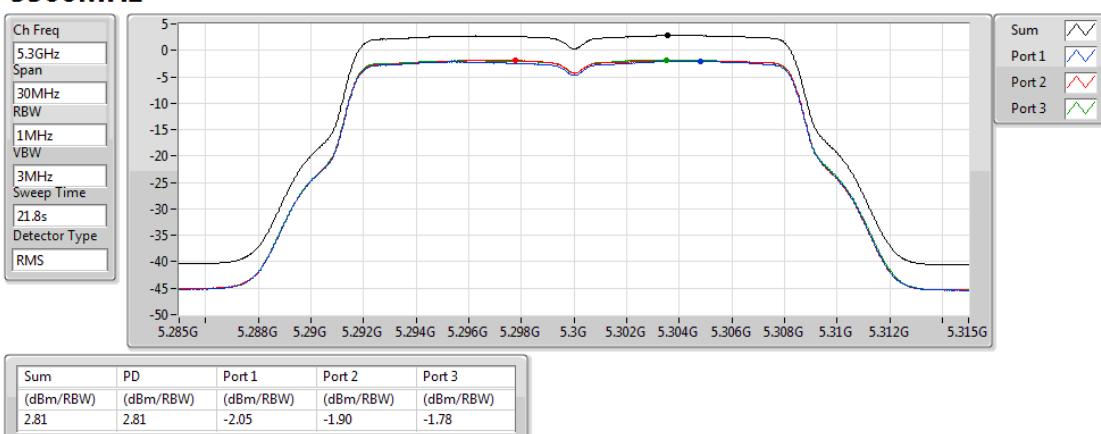
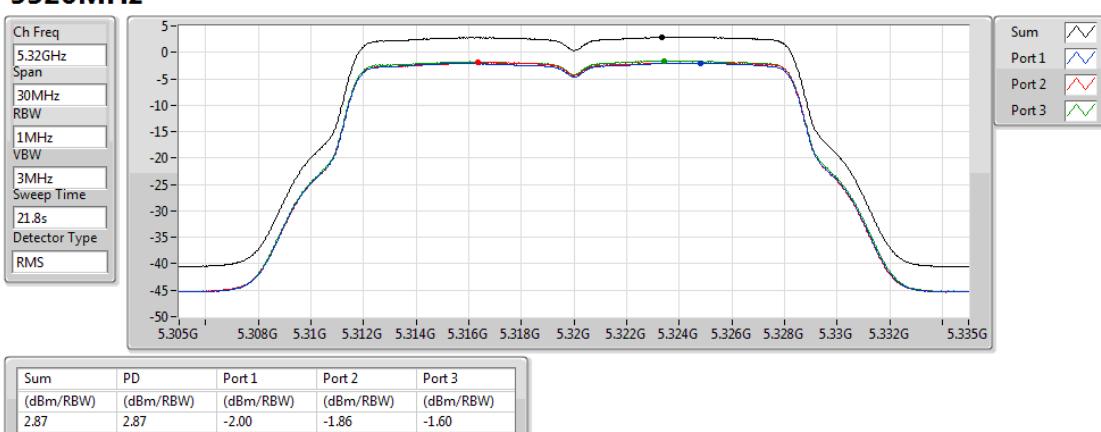


## Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-
5260MHz	Pass	12.07	-1.80	-1.75	-1.46	3.05	4.93	15.12	Inf
5300MHz	Pass	12.07	-2.05	-1.90	-1.78	2.81	4.93	14.88	Inf
5320MHz	Pass	12.07	-2.00	-1.86	-1.60	2.87	4.93	14.94	Inf
5500MHz	Pass	12.07	-0.83	0.33	0.22	4.70	4.93	16.77	Inf
5580MHz	Pass	12.07	-0.46	0.47	0.37	4.91	4.93	16.98	Inf
5700MHz	Pass	12.07	-0.16	0.17	0.41	4.86	4.93	16.93	Inf
5720MHz Straddle 5.47-5.725GHz	Pass	12.07	-0.22	0.08	0.39	4.83	4.93	16.90	Inf
5720MHz Straddle 5.725-5.85GHz	Pass	12.07	-1.85	-1.75	-1.34	3.11	23.93	15.18	Inf
802.11ac VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5260MHz	Pass	12.07	-1.64	-1.40	-1.28	3.10	4.93	15.17	Inf
5300MHz	Pass	12.07	-1.43	-1.59	-1.21	3.08	4.93	15.15	Inf
5320MHz	Pass	12.07	-1.60	-1.46	-1.25	3.04	4.93	15.11	Inf
5500MHz	Pass	12.07	-0.49	0.49	0.70	4.76	4.93	16.83	Inf
5580MHz	Pass	12.07	-0.44	0.68	0.61	4.72	4.93	16.79	Inf
5700MHz	Pass	12.07	-0.01	0.45	0.60	4.85	4.93	16.92	Inf
5720MHz Straddle 5.47-5.725GHz	Pass	12.07	-0.09	0.26	0.39	4.70	4.93	16.77	Inf
5720MHz Straddle 5.725-5.85GHz	Pass	12.07	-1.87	-1.45	-1.15	3.03	23.93	15.10	Inf
802.11ac VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5270MHz	Pass	12.07	-5.01	-4.58	-5.04	-0.12	4.93	11.95	Inf
5310MHz	Pass	12.07	-5.43	-4.76	-5.49	-0.48	4.93	11.59	Inf
5510MHz	Pass	12.07	-0.41	0.19	0.24	4.72	4.93	16.79	Inf
5550MHz	Pass	12.07	-0.43	0.27	0.21	4.77	4.93	16.84	Inf
5670MHz	Pass	12.07	-0.06	0.19	0.36	4.91	4.93	16.98	Inf
5710MHz Straddle 5.47-5.725GHz	Pass	12.07	-0.09	0.15	0.37	4.91	4.93	16.98	Inf
5710MHz Straddle 5.725-5.85GHz	Pass	12.07	-2.31	-1.93	-1.66	2.79	23.93	14.86	Inf
802.11ac VHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-
5290MHz	Pass	12.07	-8.28	-8.00	-7.72	-3.27	4.93	8.80	Inf
5530MHz	Pass	12.07	-4.13	-3.61	-3.65	0.91	4.93	12.98	Inf
5690MHz Straddle 5.47-5.725GHz	Pass	12.07	-1.65	-1.35	-1.34	3.27	4.93	15.34	Inf
5690MHz Straddle 5.725-5.85GHz	Pass	12.07	-3.86	-3.56	-3.50	1.12	23.93	13.19	Inf

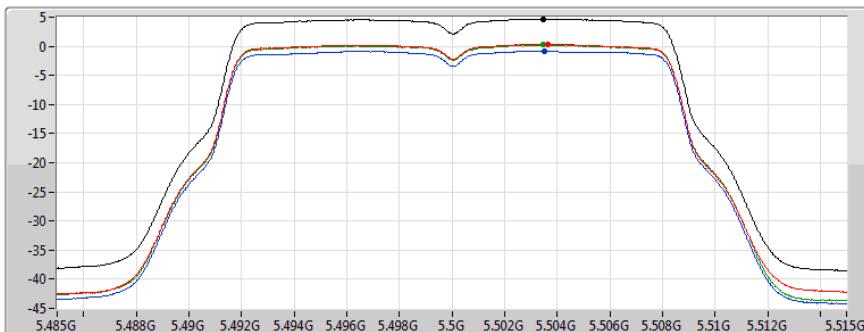
**DG** = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

**802.11a\_Nss1,(6Mbps)\_3TX****PSD****5260MHz****802.11a\_Nss1,(6Mbps)\_3TX****PSD****5300MHz****802.11a\_Nss1,(6Mbps)\_3TX****PSD****5320MHz**

**802.11a\_Nss1,(6Mbps)\_3TX****PSD****5500MHz**

Ch Freq  
5.5GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
21.8s  
Detector Type  
RMS

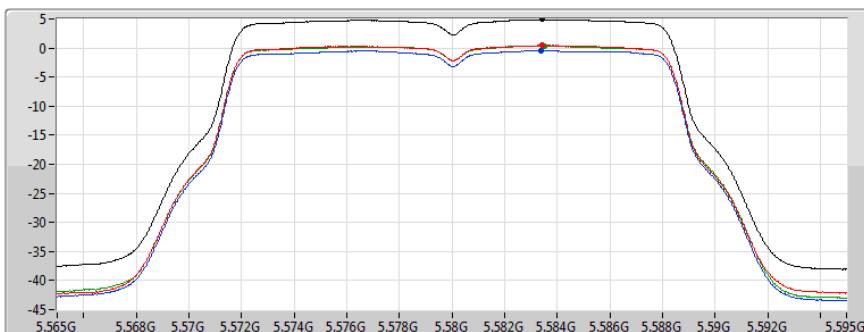


Sum  
Port 1  
Port 2  
Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.70	4.70	-0.83	0.33	0.22

**802.11a\_Nss1,(6Mbps)\_3TX****PSD****5580MHz**

Ch Freq  
5.58GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
21.8s  
Detector Type  
RMS

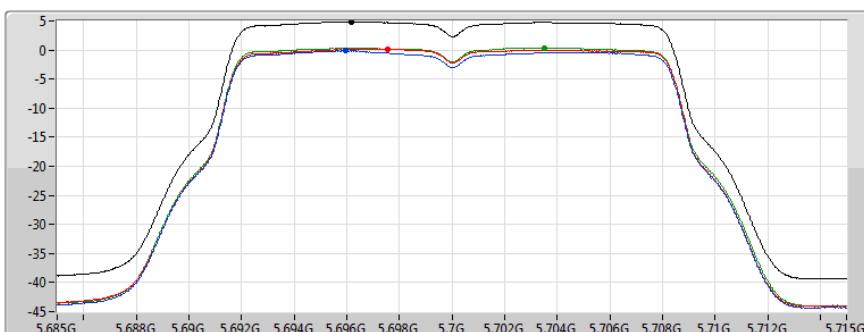


Sum  
Port 1  
Port 2  
Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.91	4.91	-0.46	0.47	0.37

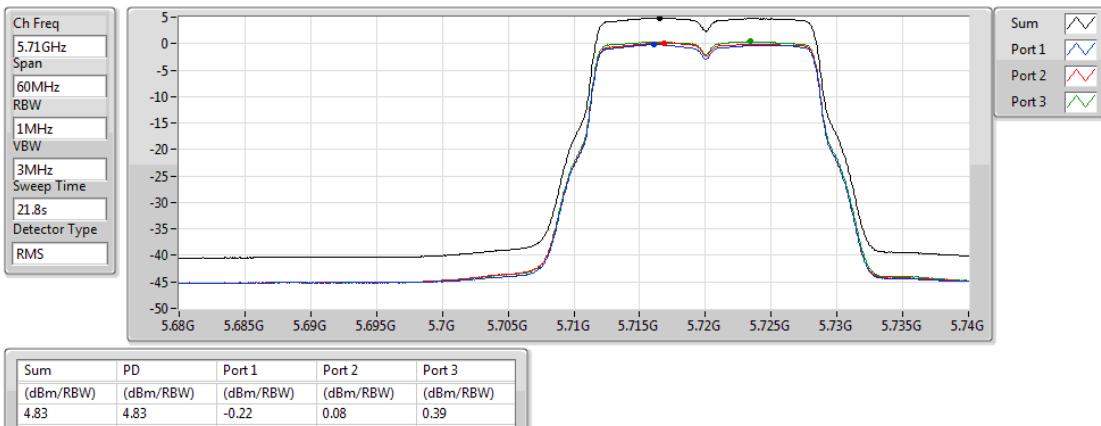
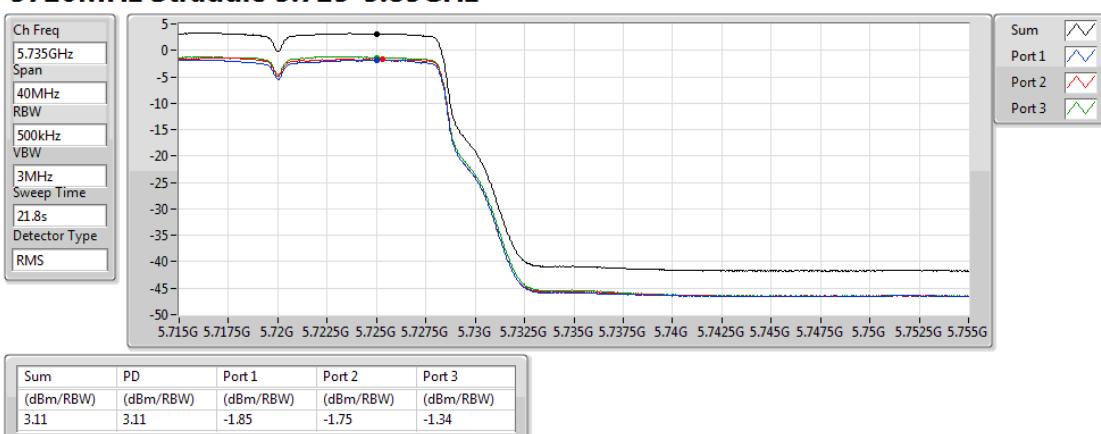
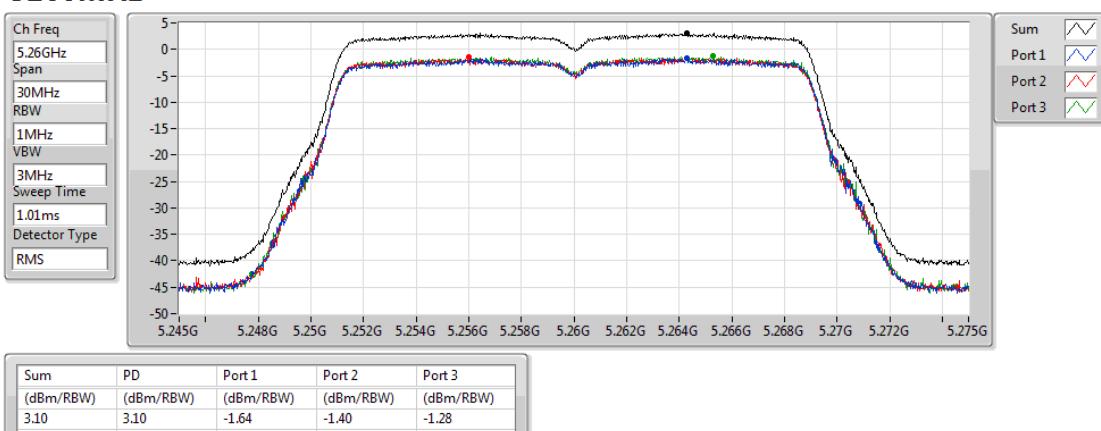
**802.11a\_Nss1,(6Mbps)\_3TX****PSD****5700MHz**

Ch Freq  
5.7GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
21.8s  
Detector Type  
RMS



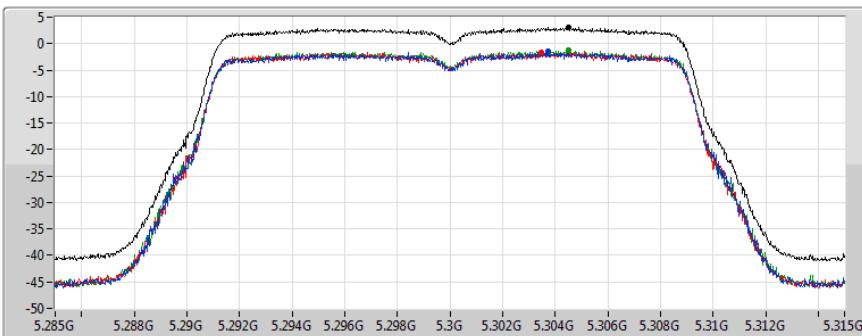
Sum  
Port 1  
Port 2  
Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.86	4.86	-0.16	0.17	0.41

**802.11a\_Nss1,(6Mbps)\_3TX****PSD****5720MHz Straddle 5.47-5.725GHz****802.11a\_Nss1,(6Mbps)\_3TX****PSD****5720MHz Straddle 5.725-5.85GHz****802.11ac VHT20\_Nss1,(MCS0)\_3TX****PSD****5260MHz**

**802.11ac VHT20\_Nss1,(MCS0)\_3TX****PSD****5300MHz**

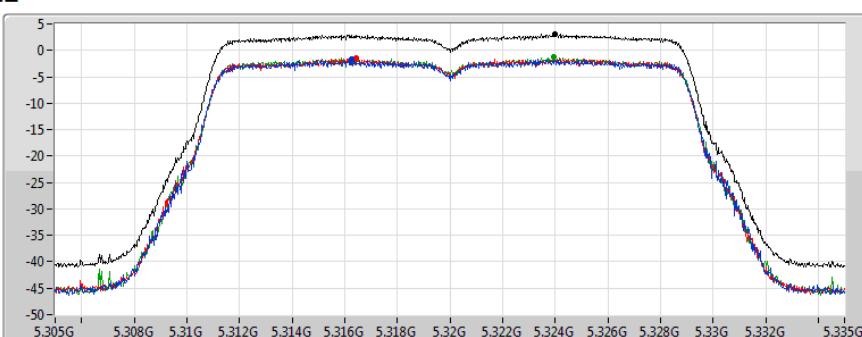
Ch Freq  
5.3GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2  
Port 3

**802.11ac VHT20\_Nss1,(MCS0)\_3TX****PSD****5320MHz**

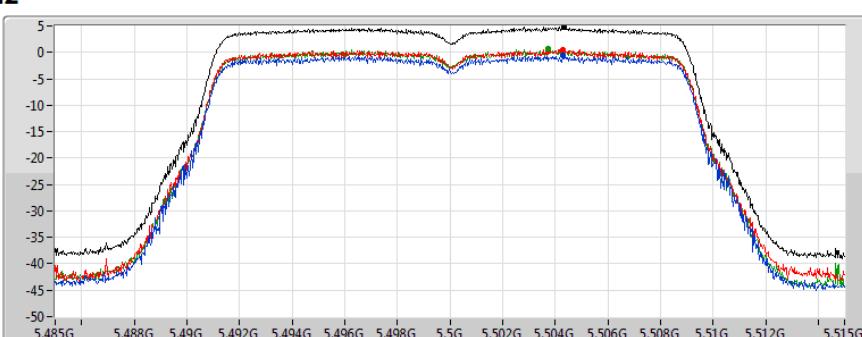
Ch Freq  
5.32GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2  
Port 3

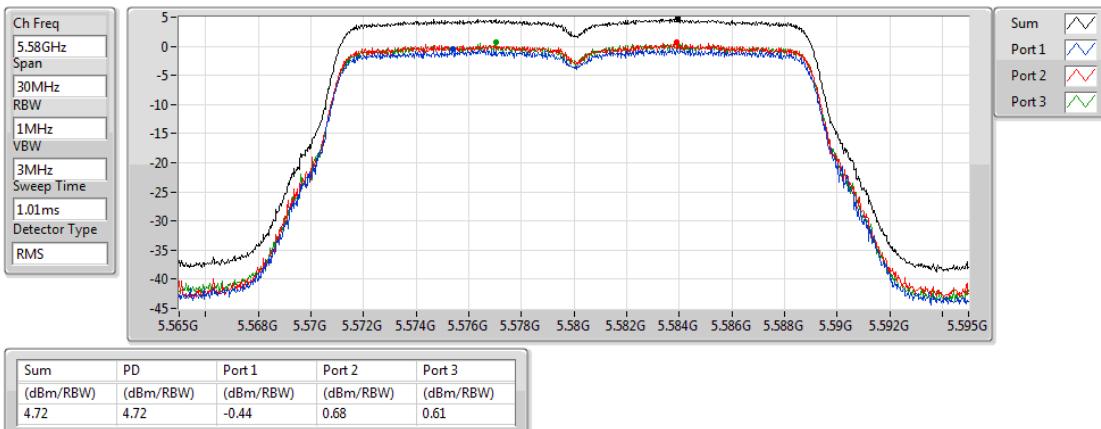
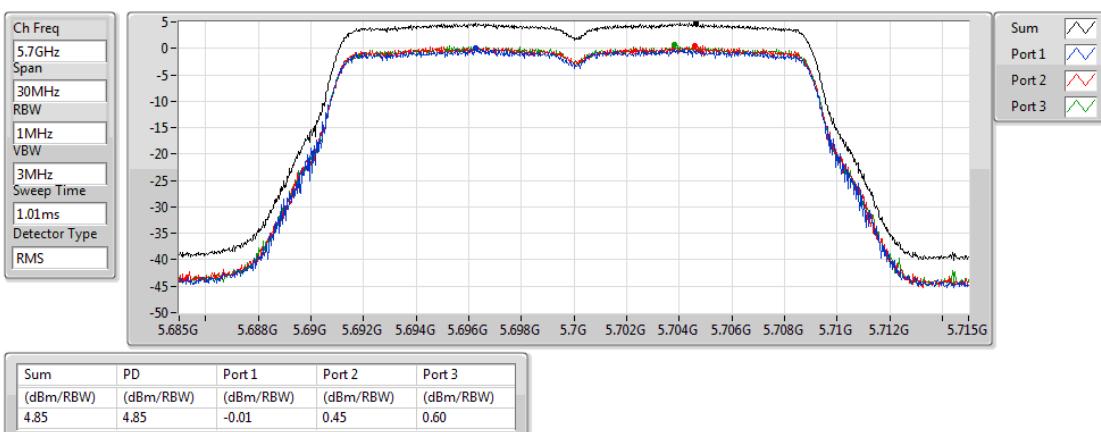
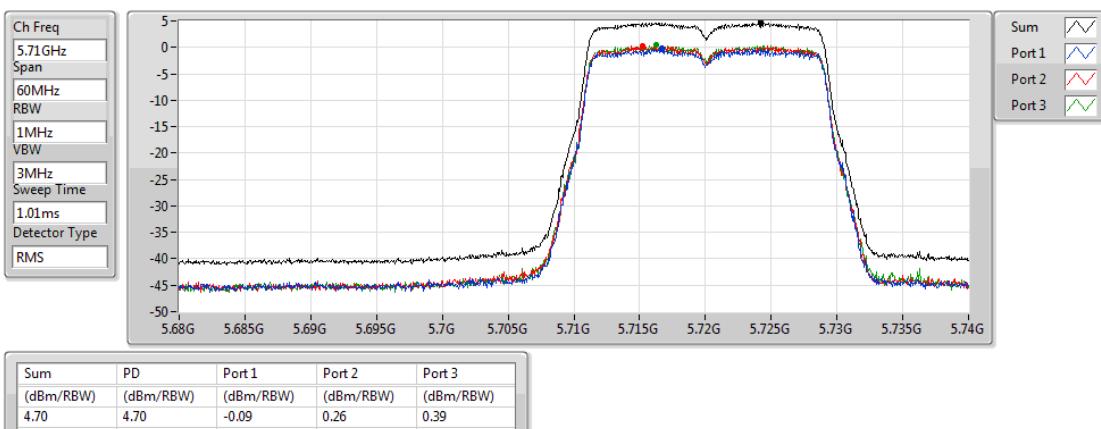
**802.11ac VHT20\_Nss1,(MCS0)\_3TX****PSD****5500MHz**

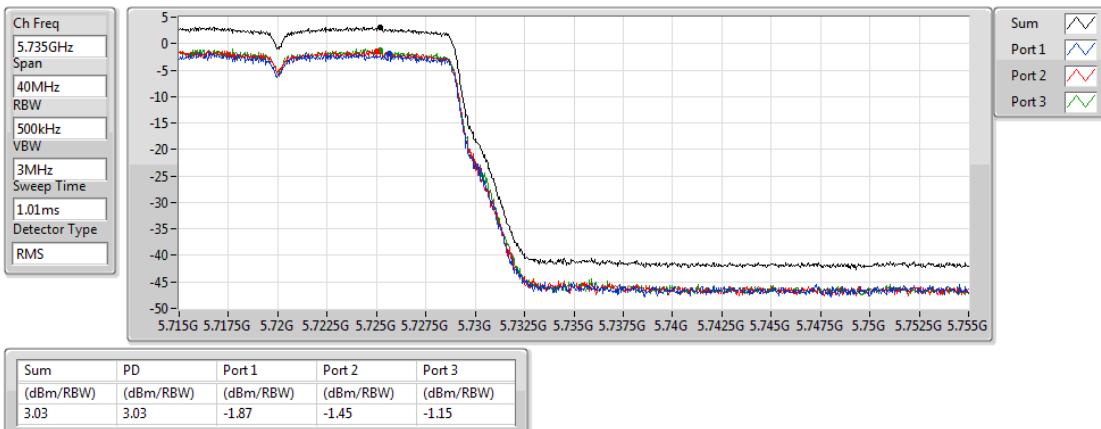
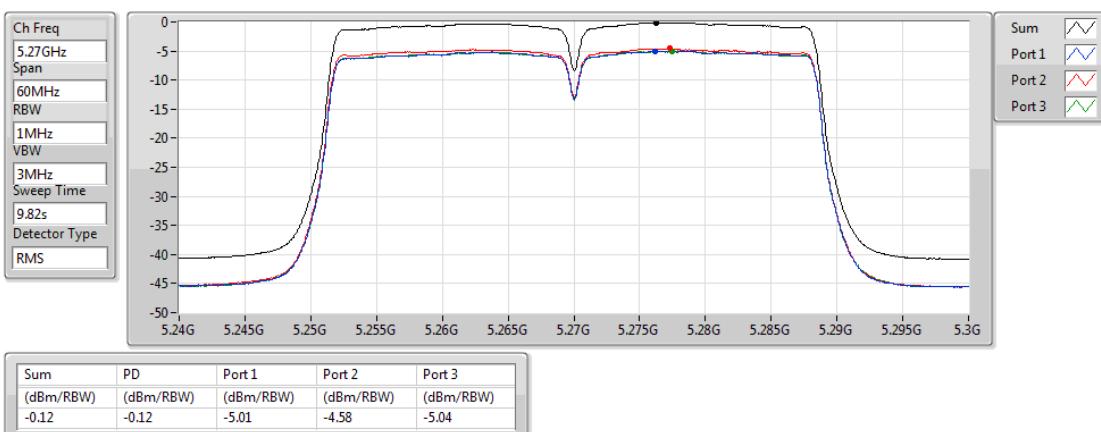
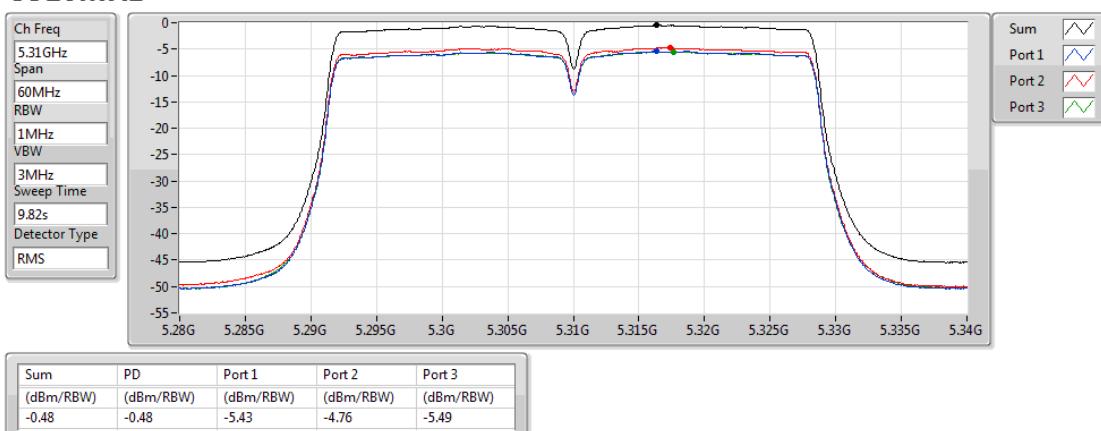
Ch Freq  
5.5GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2  
Port 3

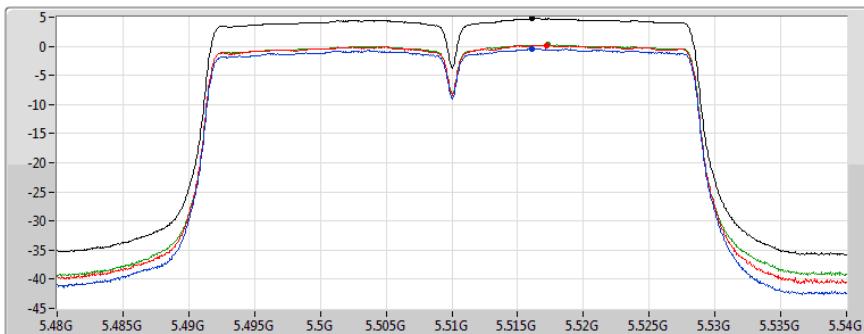
Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.08	3.08	-1.43	-1.59	-1.21
3.04	3.04	-1.60	-1.46	-1.25
4.76	4.76	-0.49	0.49	0.70

**802.11ac VHT20\_Nss1,(MCS0)\_3TX****PSD****5580MHz****802.11ac VHT20\_Nss1,(MCS0)\_3TX****PSD****5700MHz****802.11ac VHT20\_Nss1,(MCS0)\_3TX****PSD****5720MHz Straddle 5.47-5.725GHz**

**802.11ac VHT20\_Nss1,(MCS0)\_3TX****PSD****5720MHz Straddle 5.725-5.85GHz****802.11ac VHT40\_Nss1,(MCS0)\_3TX****PSD****5270MHz****802.11ac VHT40\_Nss1,(MCS0)\_3TX****PSD****5310MHz**

**802.11ac VHT40\_Nss1,(MCS0)\_3TX****PSD****5510MHz**

Ch Freq
5.51GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
9.82s
Detector Type
RMS

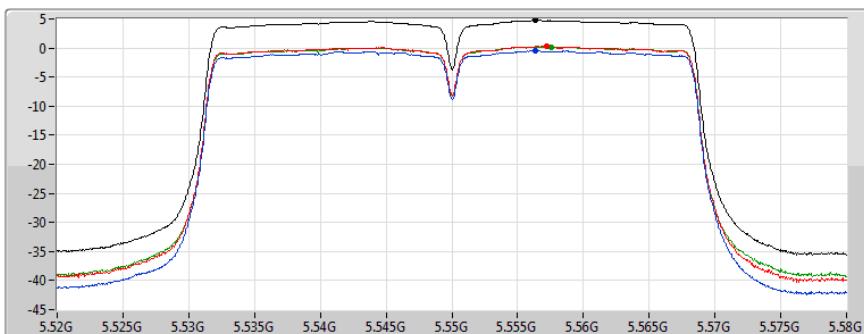


Sum	/\
Port 1	/\
Port 2	/\
Port 3	/\

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.72	4.72	-0.41	0.19	0.24

**802.11ac VHT40\_Nss1,(MCS0)\_3TX****PSD****5550MHz**

Ch Freq
5.55GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
9.82s
Detector Type
RMS

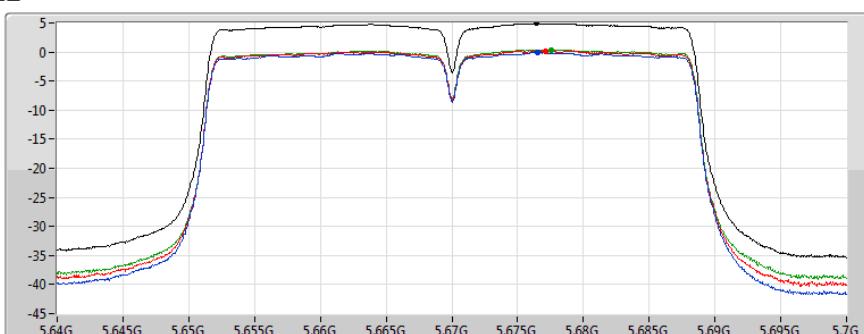


Sum	/\
Port 1	/\
Port 2	/\
Port 3	/\

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.77	4.77	-0.43	0.27	0.21

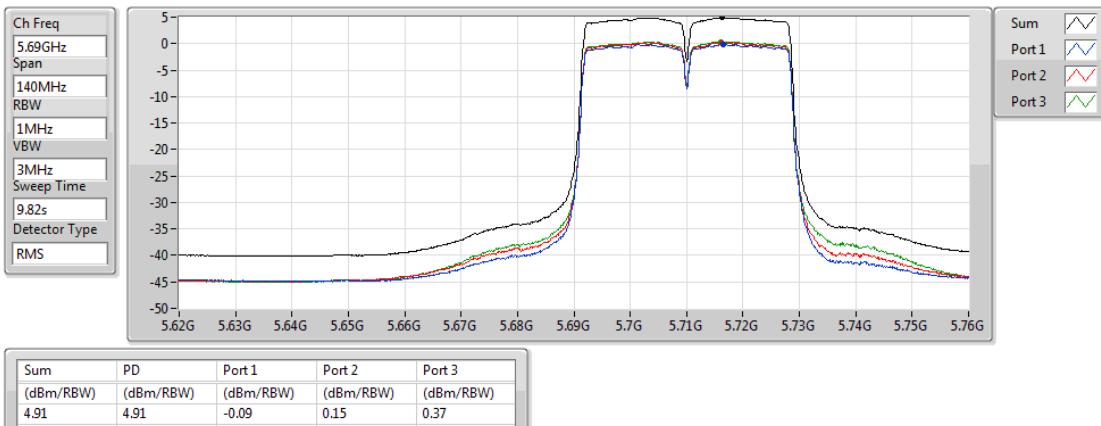
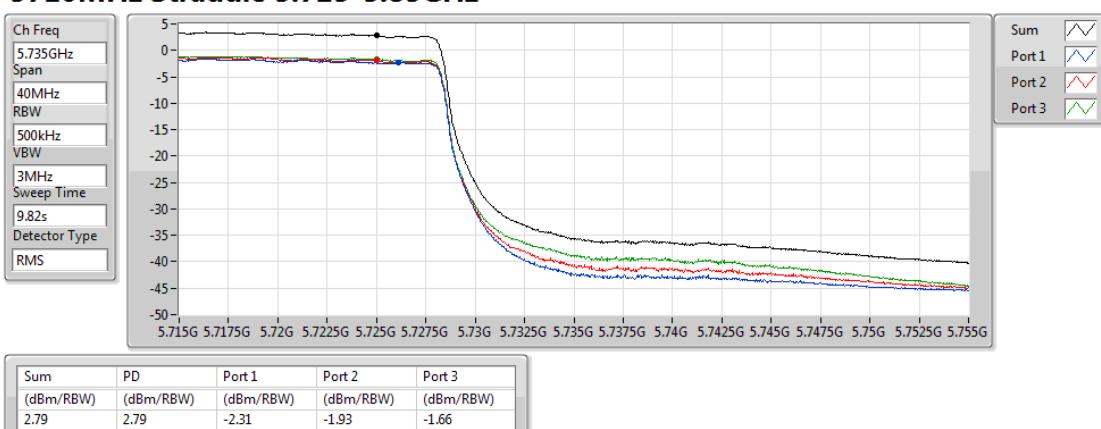
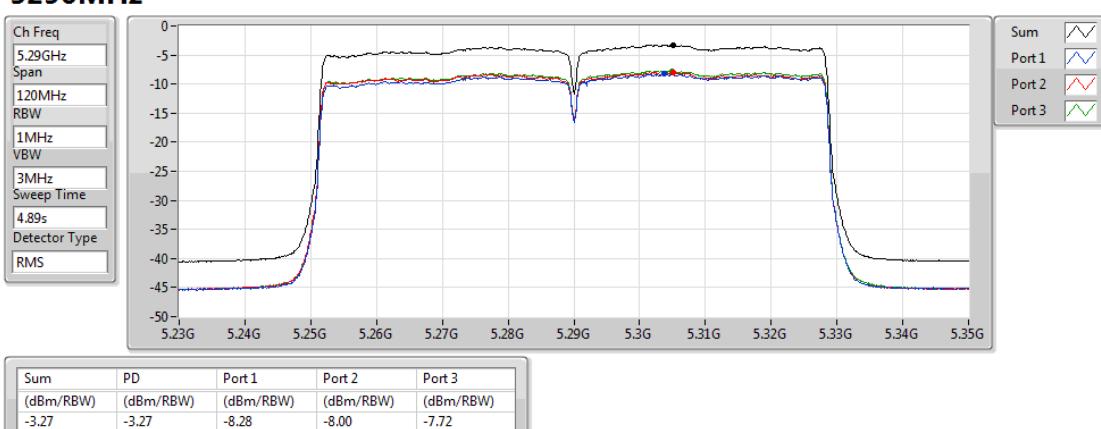
**802.11ac VHT40\_Nss1,(MCS0)\_3TX****PSD****5670MHz**

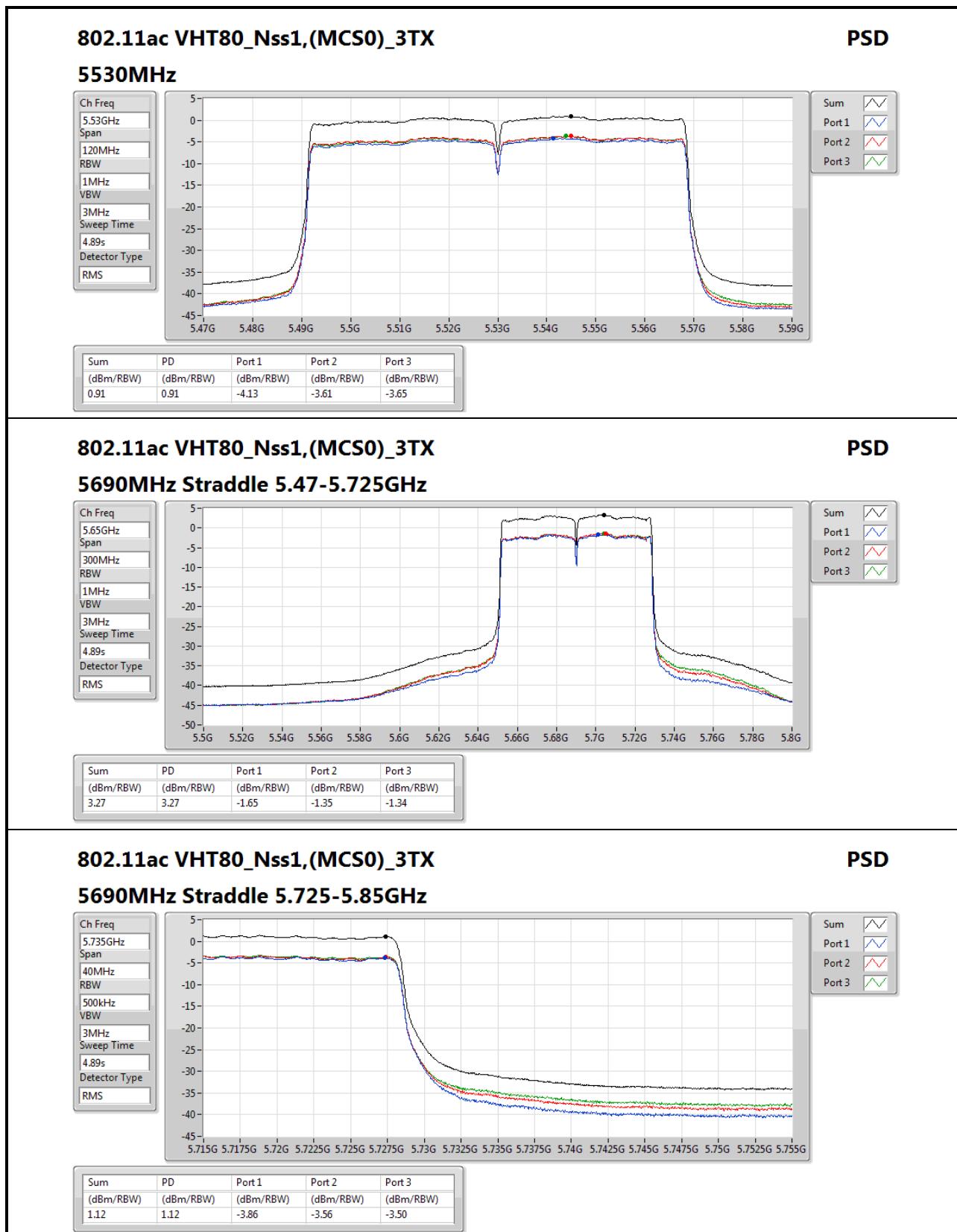
Ch Freq
5.67GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
9.82s
Detector Type
RMS



Sum	/\
Port 1	/\
Port 2	/\
Port 3	/\

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.91	4.91	-0.06	0.19	0.36

**802.11ac VHT40\_Nss1,(MCS0)\_3TX****PSD****5710MHz Straddle 5.47-5.725GHz****802.11ac VHT40\_Nss1,(MCS0)\_3TX****PSD****5710MHz Straddle 5.725-5.85GHz****802.11ac VHT80\_Nss1,(MCS0)\_3TX****PSD****5290MHz**



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	Pass	AV	5.3504G	53.41	54.00	-0.59	3.11	3	Horizontal	26	2.01	-
802.11ac VHT20_Nss1,(MCS0)_3TX	Pass	AV	5.3506G	53.79	54.00	-0.21	3.11	3	Horizontal	346	2.34	-
802.11ac VHT40_Nss1,(MCS0)_3TX	Pass	AV	5.3504G	53.80	54.00	-0.20	3.11	3	Horizontal	339	1.72	-
802.11ac VHT80_Nss1,(MCS0)_3TX	Pass	AV	5.359G	53.75	54.00	-0.25	3.12	3	Horizontal	346	2.20	-
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	Pass	PK	5.4696G	68.01	68.20	-0.19	3.24	3	Horizontal	51	2.31	-
802.11ac VHT20_Nss1,(MCS0)_3TX	Pass	PK	5.7252G	67.66	68.20	-0.54	3.46	3	Horizontal	307	1.94	-
802.11ac VHT40_Nss1,(MCS0)_3TX	Pass	PK	5.7318G	68.04	68.20	-0.16	3.46	3	Horizontal	304	2.04	-
802.11ac VHT80_Nss1,(MCS0)_3TX	Pass	PK	5.466G	68.00	68.20	-0.20	3.23	3	Horizontal	336	2.02	-



## Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.149995G	48.98	54.00	-5.02	2.90	3	Horizontal	21	2.13	-
5260MHz	Pass	AV	5.266G	109.87	Inf	-Inf	3.02	3	Horizontal	21	2.13	-
5260MHz	Pass	AV	5.350005G	53.39	54.00	-0.61	3.11	3	Horizontal	21	2.13	-
5260MHz	Pass	PK	5.1478G	59.94	74.00	-14.06	2.90	3	Horizontal	21	2.13	-
5260MHz	Pass	PK	5.2654G	118.11	Inf	-Inf	3.02	3	Horizontal	21	2.13	-
5260MHz	Pass	PK	5.3518G	67.12	74.00	-6.88	3.11	3	Horizontal	21	2.13	-
5260MHz	Pass	AV	5.149995G	48.45	54.00	-5.55	2.90	3	Vertical	5	1.64	-
5260MHz	Pass	AV	5.2612G	106.28	Inf	-Inf	3.02	3	Vertical	5	1.64	-
5260MHz	Pass	AV	5.350005G	50.61	54.00	-3.39	3.11	3	Vertical	5	1.64	-
5260MHz	Pass	PK	5.1448G	59.46	74.00	-14.54	2.89	3	Vertical	5	1.64	-
5260MHz	Pass	PK	5.2612G	114.31	Inf	-Inf	3.02	3	Vertical	5	1.64	-
5260MHz	Pass	PK	5.3542G	64.72	74.00	-9.28	3.11	3	Vertical	5	1.64	-
5260MHz	Pass	AV	15.78462G	47.33	54.00	-6.67	13.75	3	Horizontal	360	1.50	-
5260MHz	Pass	PK	15.77784G	57.87	74.00	-16.13	13.77	3	Horizontal	360	1.50	-
5260MHz	Pass	AV	15.77574G	47.30	54.00	-6.70	13.78	3	Vertical	0	1.50	-
5260MHz	Pass	PK	15.78426G	57.77	74.00	-16.23	13.75	3	Vertical	0	1.50	-
5300MHz	Pass	AV	5.3052G	108.07	Inf	-Inf	3.07	3	Horizontal	26	2.01	-
5300MHz	Pass	AV	5.3504G	53.41	54.00	-0.59	3.11	3	Horizontal	26	2.01	-
5300MHz	Pass	PK	5.3052G	115.58	Inf	-Inf	3.07	3	Horizontal	26	2.01	-
5300MHz	Pass	PK	5.3516G	67.89	74.00	-6.11	3.11	3	Horizontal	26	2.01	-
5300MHz	Pass	AV	5.3056G	104.44	Inf	-Inf	3.07	3	Vertical	10	1.49	-
5300MHz	Pass	AV	5.3504G	50.55	54.00	-3.45	3.11	3	Vertical	10	1.49	-
5300MHz	Pass	PK	5.3056G	111.95	Inf	-Inf	3.07	3	Vertical	10	1.49	-
5300MHz	Pass	PK	5.3516G	65.41	74.00	-8.59	3.11	3	Vertical	10	1.49	-
5300MHz	Pass	AV	10.6G	48.18	54.00	-5.82	13.41	3	Horizontal	360	1.50	-
5300MHz	Pass	AV	15.89G	46.90	54.00	-7.10	13.36	3	Horizontal	0	1.50	-
5300MHz	Pass	PK	10.6G	57.49	74.00	-16.51	13.41	3	Horizontal	360	1.50	-
5300MHz	Pass	PK	15.8804G	57.78	74.00	-16.22	13.39	3	Horizontal	0	1.50	-
5300MHz	Pass	AV	10.6003G	47.66	54.00	-6.34	13.41	3	Vertical	0	1.50	-
5300MHz	Pass	AV	15.90156G	46.89	54.00	-7.11	13.31	3	Vertical	360	1.50	-
5300MHz	Pass	PK	10.59502G	59.14	74.00	-14.86	13.40	3	Vertical	0	1.50	-
5300MHz	Pass	PK	15.89052G	57.86	74.00	-16.14	13.36	3	Vertical	360	1.50	-
5320MHz	Pass	AV	5.3244G	103.96	Inf	-Inf	3.08	3	Horizontal	345	2.19	-
5320MHz	Pass	AV	5.350005G	53.34	54.00	-0.66	3.11	3	Horizontal	345	2.19	-
5320MHz	Pass	PK	5.3242G	112.55	Inf	-Inf	3.08	3	Horizontal	345	2.19	-
5320MHz	Pass	PK	5.3546G	67.37	74.00	-6.63	3.11	3	Horizontal	345	2.19	-
5320MHz	Pass	AV	5.3156G	101.64	Inf	-Inf	3.08	3	Vertical	9	1.42	-
5320MHz	Pass	AV	5.3508G	50.69	54.00	-3.31	3.11	3	Vertical	9	1.42	-
5320MHz	Pass	PK	5.316G	109.99	Inf	-Inf	3.08	3	Vertical	9	1.42	-
5320MHz	Pass	PK	5.3514G	65.00	74.00	-9.00	3.11	3	Vertical	9	1.42	-
5320MHz	Pass	AV	10.6382G	45.73	54.00	-8.27	13.51	3	Horizontal	0	1.50	-
5320MHz	Pass	AV	15.97056G	46.49	54.00	-7.51	13.06	3	Horizontal	360	1.50	-
5320MHz	Pass	PK	10.6289G	56.96	74.00	-17.04	13.49	3	Horizontal	0	1.50	-
5320MHz	Pass	PK	15.97356G	57.19	74.00	-16.81	13.05	3	Horizontal	360	1.50	-
5320MHz	Pass	AV	10.6402G	45.87	54.00	-8.13	13.52	3	Vertical	360	1.50	-
5320MHz	Pass	AV	15.9144G	46.66	54.00	-7.34	13.27	3	Vertical	0	1.50	-
5320MHz	Pass	PK	10.64G	56.69	74.00	-17.31	13.52	3	Vertical	360	1.50	-



## RSE TX above 1GHz Result\_ FAP-U321EV

## Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5320MHz	Pass	PK	15.9638G	57.40	74.00	-16.60	13.08	3	Vertical	0	1.50	-
5500MHz	Pass	AV	5.46G	49.15	54.00	-4.85	3.23	3	Horizontal	51	2.31	-
5500MHz	Pass	AV	5.497G	104.41	Inf	-Inf	3.27	3	Horizontal	51	2.31	-
5500MHz	Pass	PK	5.4598G	63.31	74.00	-10.69	3.23	3	Horizontal	51	2.31	-
5500MHz	Pass	PK	5.4696G	68.01	68.20	-0.19	3.24	3	Horizontal	51	2.31	-
5500MHz	Pass	PK	5.5022G	112.08	Inf	-Inf	3.27	3	Horizontal	51	2.31	-
5500MHz	Pass	AV	5.46G	47.23	54.00	-6.77	3.23	3	Vertical	26	1.01	-
5500MHz	Pass	AV	5.4976G	100.55	Inf	-Inf	3.27	3	Vertical	26	1.01	-
5500MHz	Pass	PK	5.459G	59.56	74.00	-14.44	3.22	3	Vertical	26	1.01	-
5500MHz	Pass	PK	5.4696G	64.05	68.20	-4.15	3.24	3	Vertical	26	1.01	-
5500MHz	Pass	PK	5.5026G	108.33	Inf	-Inf	3.27	3	Vertical	26	1.01	-
5500MHz	Pass	AV	11.0003G	46.68	54.00	-7.32	14.46	3	Horizontal	0	1.50	-
5500MHz	Pass	PK	11.00156G	57.52	74.00	-16.48	14.46	3	Horizontal	0	1.50	-
5500MHz	Pass	AV	10.99634G	46.49	54.00	-7.51	14.45	3	Vertical	360	1.50	-
5500MHz	Pass	PK	10.99784G	57.32	74.00	-16.68	14.45	3	Vertical	360	1.50	-
5580MHz	Pass	AV	5.4252G	53.73	54.00	-0.27	3.19	3	Horizontal	341	1.97	-
5580MHz	Pass	AV	5.5812G	108.98	Inf	-Inf	3.33	3	Horizontal	341	1.97	-
5580MHz	Pass	PK	5.34G	62.55	68.20	-5.65	3.10	3	Horizontal	341	1.97	-
5580MHz	Pass	PK	5.4696G	64.64	68.20	-3.56	3.24	3	Horizontal	341	1.97	-
5580MHz	Pass	PK	5.5764G	118.06	Inf	-Inf	3.33	3	Horizontal	341	1.97	-
5580MHz	Pass	PK	5.742G	62.67	68.20	-5.53	3.47	3	Horizontal	341	1.97	-
5580MHz	Pass	AV	5.4264G	51.87	54.00	-2.13	3.19	3	Vertical	27	1.01	-
5580MHz	Pass	AV	5.5824G	109.06	Inf	-Inf	3.34	3	Vertical	27	1.01	-
5580MHz	Pass	PK	5.3412G	59.47	68.20	-8.73	3.10	3	Vertical	27	1.01	-
5580MHz	Pass	PK	5.4684G	62.43	68.20	-5.77	3.24	3	Vertical	27	1.01	-
5580MHz	Pass	PK	5.5824G	117.56	Inf	-Inf	3.34	3	Vertical	27	1.01	-
5580MHz	Pass	PK	5.7372G	61.03	68.20	-7.17	3.47	3	Vertical	27	1.01	-
5580MHz	Pass	AV	11.16156G	49.68	54.00	-4.32	14.19	3	Horizontal	360	1.50	-
5580MHz	Pass	PK	11.1657G	60.31	74.00	-13.69	14.18	3	Horizontal	360	1.50	-
5580MHz	Pass	AV	11.15964G	47.08	54.00	-6.92	14.19	3	Vertical	0	1.50	-
5580MHz	Pass	PK	11.163G	58.02	74.00	-15.98	14.18	3	Vertical	0	1.50	-
5700MHz	Pass	AV	5.6944G	102.78	Inf	-Inf	3.43	3	Horizontal	307	1.90	-
5700MHz	Pass	PK	5.7044G	111.14	Inf	-Inf	3.44	3	Horizontal	307	1.90	-
5700MHz	Pass	PK	5.7256G	67.68	68.20	-0.52	3.46	3	Horizontal	307	1.90	-
5700MHz	Pass	AV	5.698G	100.13	Inf	-Inf	3.44	3	Vertical	24	1.50	-
5700MHz	Pass	PK	5.6984G	108.02	Inf	-Inf	3.44	3	Vertical	24	1.50	-
5700MHz	Pass	PK	5.728G	64.45	68.20	-3.75	3.46	3	Vertical	24	1.50	-
5700MHz	Pass	AV	11.41152G	45.68	54.00	-8.32	13.76	3	Horizontal	0	1.50	-
5700MHz	Pass	PK	11.41428G	56.31	74.00	-17.69	13.76	3	Horizontal	0	1.50	-
5700MHz	Pass	AV	11.39364G	45.79	54.00	-8.21	13.79	3	Vertical	360	1.50	-
5700MHz	Pass	PK	11.40864G	56.26	74.00	-17.74	13.77	3	Vertical	360	1.50	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4584G	46.43	54.00	-7.57	3.22	3	Horizontal	309	1.91	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7236G	109.37	Inf	-Inf	3.46	3	Horizontal	309	1.91	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4512G	57.33	74.00	-16.67	3.22	3	Horizontal	309	1.91	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4656G	57.70	68.20	-10.50	3.23	3	Horizontal	309	1.91	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7236G	118.95	Inf	-Inf	3.46	3	Horizontal	309	1.91	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.8736G	64.27	68.20	-3.93	3.58	3	Horizontal	309	1.91	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4572G	46.17	54.00	-7.83	3.22	3	Vertical	23	1.43	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7176G	106.40	Inf	-Inf	3.45	3	Vertical	23	1.43	-



## RSE TX above 1GHz Result\_ FAP-U321EV

## Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4356G	56.40	74.00	-17.60	3.20	3	Vertical	23	1.43	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4692G	56.97	68.20	-11.23	3.24	3	Vertical	23	1.43	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7128G	115.05	Inf	-Inf	3.45	3	Vertical	23	1.43	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.8832G	60.22	68.20	-7.98	3.58	3	Vertical	23	1.43	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.44G	49.30	54.00	-4.70	13.71	3	Horizontal	51	1.53	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44G	58.96	74.00	-15.04	13.71	3	Horizontal	51	1.53	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.44G	50.28	54.00	-3.72	13.71	3	Vertical	56	1.50	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44G	61.12	74.00	-12.88	13.71	3	Vertical	56	1.50	-
802.11ac VHT20_Nss1_(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.149995G	49.29	54.00	-4.71	2.90	3	Horizontal	346	2.34	-
5260MHz	Pass	AV	5.2642G	107.98	Inf	-Inf	3.02	3	Horizontal	346	2.34	-
5260MHz	Pass	AV	5.3506G	53.79	54.00	-0.21	3.11	3	Horizontal	346	2.34	-
5260MHz	Pass	PK	5.1496G	61.37	74.00	-12.63	2.90	3	Horizontal	346	2.34	-
5260MHz	Pass	PK	5.2546G	116.33	Inf	-Inf	3.01	3	Horizontal	346	2.34	-
5260MHz	Pass	PK	5.3512G	70.39	74.00	-3.61	3.11	3	Horizontal	346	2.34	-
5260MHz	Pass	AV	5.149995G	49.21	54.00	-4.79	2.90	3	Vertical	6	1.65	-
5260MHz	Pass	AV	5.263G	105.92	Inf	-Inf	3.02	3	Vertical	6	1.65	-
5260MHz	Pass	AV	5.3506G	51.86	54.00	-2.14	3.11	3	Vertical	6	1.65	-
5260MHz	Pass	PK	5.1484G	60.50	74.00	-13.50	2.90	3	Vertical	6	1.65	-
5260MHz	Pass	PK	5.2558G	114.51	Inf	-Inf	3.01	3	Vertical	6	1.65	-
5260MHz	Pass	PK	5.3542G	68.07	74.00	-5.93	3.11	3	Vertical	6	1.65	-
5260MHz	Pass	AV	15.7796G	47.57	54.00	-6.43	13.77	3	Horizontal	360	1.50	-
5260MHz	Pass	PK	15.7792G	57.50	74.00	-16.50	13.77	3	Horizontal	360	1.50	-
5260MHz	Pass	AV	15.78066G	47.14	54.00	-6.86	13.76	3	Vertical	0	1.50	-
5260MHz	Pass	PK	15.79266G	59.08	74.00	-14.92	13.72	3	Vertical	0	1.50	-
5300MHz	Pass	AV	5.3028G	107.10	Inf	-Inf	3.06	3	Horizontal	24	2.04	-
5300MHz	Pass	AV	5.350005G	53.32	54.00	-0.68	3.11	3	Horizontal	24	2.04	-
5300MHz	Pass	PK	5.3028G	115.16	Inf	-Inf	3.06	3	Horizontal	24	2.04	-
5300MHz	Pass	PK	5.350005G	68.32	74.00	-5.68	3.11	3	Horizontal	24	2.04	-
5300MHz	Pass	AV	5.3028G	103.35	Inf	-Inf	3.06	3	Vertical	8	1.54	-
5300MHz	Pass	AV	5.3504G	50.25	54.00	-3.75	3.11	3	Vertical	8	1.54	-
5300MHz	Pass	PK	5.2984G	111.12	Inf	-Inf	3.06	3	Vertical	8	1.54	-
5300MHz	Pass	PK	5.3532G	62.82	74.00	-11.18	3.11	3	Vertical	8	1.54	-
5300MHz	Pass	AV	10.5991G	45.96	54.00	-8.04	13.41	3	Horizontal	360	1.50	-
5300MHz	Pass	AV	15.89964G	46.62	54.00	-7.38	13.32	3	Horizontal	0	1.50	-
5300MHz	Pass	PK	10.60354G	56.96	74.00	-17.04	13.42	3	Horizontal	360	1.50	-
5300MHz	Pass	PK	15.89358G	57.65	74.00	-16.35	13.34	3	Horizontal	0	1.50	-
5300MHz	Pass	AV	10.60036G	46.73	54.00	-7.27	13.41	3	Vertical	0	1.50	-
5300MHz	Pass	AV	15.90114G	46.84	54.00	-7.16	13.32	3	Vertical	360	1.50	-
5300MHz	Pass	PK	10.58914G	56.90	74.00	-17.10	13.38	3	Vertical	0	1.50	-
5300MHz	Pass	PK	15.91194G	57.68	74.00	-16.32	13.28	3	Vertical	360	1.50	-
5320MHz	Pass	AV	5.3152G	103.75	Inf	-Inf	3.08	3	Horizontal	24	2.08	-
5320MHz	Pass	AV	5.350005G	53.31	54.00	-0.69	3.11	3	Horizontal	24	2.08	-
5320MHz	Pass	PK	5.3152G	111.97	Inf	-Inf	3.08	3	Horizontal	24	2.08	-
5320MHz	Pass	PK	5.3504G	69.43	74.00	-4.57	3.11	3	Horizontal	24	2.08	-
5320MHz	Pass	AV	5.3154G	100.26	Inf	-Inf	3.08	3	Vertical	6	1.43	-
5320MHz	Pass	AV	5.3502G	50.94	54.00	-3.06	3.11	3	Vertical	6	1.43	-
5320MHz	Pass	PK	5.3148G	108.60	Inf	-Inf	3.07	3	Vertical	6	1.43	-
5320MHz	Pass	PK	5.3502G	67.36	74.00	-6.64	3.11	3	Vertical	6	1.43	-



## RSE TX above 1GHz Result\_ FAP-U321EV

## Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5320MHz	Pass	AV	10.64438G	45.58	54.00	-8.42	13.53	3	Horizontal	0	1.50	-
5320MHz	Pass	AV	15.96444G	46.49	54.00	-7.51	13.08	3	Horizontal	360	1.50	-
5320MHz	Pass	PK	10.62902G	56.30	74.00	-17.70	13.49	3	Horizontal	0	1.50	-
5320MHz	Pass	PK	15.963G	57.31	74.00	-16.69	13.09	3	Horizontal	360	1.50	-
5320MHz	Pass	AV	10.63802G	45.62	54.00	-8.38	13.51	3	Vertical	360	1.50	-
5320MHz	Pass	AV	15.97236G	46.49	54.00	-7.51	13.05	3	Vertical	0	1.50	-
5320MHz	Pass	PK	10.6271G	56.38	74.00	-17.62	13.48	3	Vertical	360	1.50	-
5320MHz	Pass	PK	15.96216G	57.00	74.00	-17.00	13.09	3	Vertical	0	1.50	-
5500MHz	Pass	AV	5.4592G	48.08	54.00	-5.92	3.23	3	Horizontal	52	2.29	-
5500MHz	Pass	AV	5.496G	102.12	Inf	-Inf	3.27	3	Horizontal	52	2.29	-
5500MHz	Pass	PK	5.4566G	63.90	74.00	-10.10	3.22	3	Horizontal	52	2.29	-
5500MHz	Pass	PK	5.4696G	67.59	68.20	-0.61	3.24	3	Horizontal	52	2.29	-
5500MHz	Pass	PK	5.496G	110.86	Inf	-Inf	3.27	3	Horizontal	52	2.29	-
5500MHz	Pass	AV	5.4596G	46.70	54.00	-7.30	3.23	3	Vertical	25	1.04	-
5500MHz	Pass	AV	5.5038G	98.39	Inf	-Inf	3.27	3	Vertical	25	1.04	-
5500MHz	Pass	PK	5.4582G	58.66	74.00	-15.34	3.22	3	Vertical	25	1.04	-
5500MHz	Pass	PK	5.4696G	62.81	68.20	-5.39	3.24	3	Vertical	25	1.04	-
5500MHz	Pass	PK	5.5036G	107.63	Inf	-Inf	3.27	3	Vertical	25	1.04	-
5500MHz	Pass	AV	11.00096G	46.60	54.00	-7.40	14.46	3	Horizontal	0	1.50	-
5500MHz	Pass	PK	11.00144G	57.05	74.00	-16.95	14.46	3	Horizontal	0	1.50	-
5500MHz	Pass	AV	11.00474G	46.46	54.00	-7.54	14.45	3	Vertical	360	1.50	-
5500MHz	Pass	PK	10.988G	57.11	74.00	-16.89	14.43	3	Vertical	360	1.50	-
5580MHz	Pass	AV	5.4228G	51.38	54.00	-2.62	3.19	3	Horizontal	343	1.91	-
5580MHz	Pass	AV	5.5836G	106.70	Inf	-Inf	3.34	3	Horizontal	343	1.91	-
5580MHz	Pass	PK	5.3424G	60.69	68.20	-7.51	3.10	3	Horizontal	343	1.91	-
5580MHz	Pass	PK	5.46G	66.18	74.00	-7.82	3.23	3	Horizontal	343	1.91	-
5580MHz	Pass	PK	5.5764G	115.10	Inf	-Inf	3.33	3	Horizontal	343	1.91	-
5580MHz	Pass	PK	5.7432G	62.01	68.20	-6.19	3.47	3	Horizontal	343	1.91	-
5580MHz	Pass	AV	5.424G	49.53	54.00	-4.47	3.19	3	Vertical	26	1.01	-
5580MHz	Pass	AV	5.5836G	105.20	Inf	-Inf	3.34	3	Vertical	26	1.01	-
5580MHz	Pass	PK	5.346G	59.20	68.20	-9.00	3.11	3	Vertical	26	1.01	-
5580MHz	Pass	PK	5.46G	63.79	74.00	-10.21	3.23	3	Vertical	26	1.01	-
5580MHz	Pass	PK	5.5836G	114.34	Inf	-Inf	3.34	3	Vertical	26	1.01	-
5580MHz	Pass	PK	5.7468G	60.48	68.20	-7.72	3.47	3	Vertical	26	1.01	-
5580MHz	Pass	AV	11.16G	52.13	54.00	-1.87	14.19	3	Horizontal	44	1.57	-
5580MHz	Pass	PK	11.16G	63.55	74.00	-10.45	14.19	3	Horizontal	44	1.57	-
5580MHz	Pass	AV	11.16G	49.10	54.00	-4.90	14.19	3	Vertical	56	1.43	-
5580MHz	Pass	PK	11.16G	59.67	74.00	-14.33	14.19	3	Vertical	56	1.43	-
5700MHz	Pass	AV	5.6948G	100.98	Inf	-Inf	3.44	3	Horizontal	307	1.94	-
5700MHz	Pass	PK	5.6972G	109.39	Inf	-Inf	3.44	3	Horizontal	307	1.94	-
5700MHz	Pass	PK	5.7252G	67.66	68.20	-0.54	3.46	3	Horizontal	307	1.94	-
5700MHz	Pass	AV	5.6964G	98.85	Inf	-Inf	3.44	3	Vertical	25	1.35	-
5700MHz	Pass	PK	5.6964G	107.19	Inf	-Inf	3.44	3	Vertical	25	1.35	-
5700MHz	Pass	PK	5.7264G	63.50	68.20	-4.70	3.46	3	Vertical	25	1.35	-
5700MHz	Pass	AV	11.4006G	45.76	54.00	-8.24	13.78	3	Horizontal	360	1.50	-
5700MHz	Pass	PK	11.3776G	56.45	74.00	-17.55	13.82	3	Horizontal	360	1.50	-
5700MHz	Pass	AV	11.4222G	45.65	54.00	-8.35	13.74	3	Vertical	0	1.50	-
5700MHz	Pass	PK	11.3696G	56.41	74.00	-17.59	13.83	3	Vertical	0	1.50	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4584G	46.46	54.00	-7.54	3.22	3	Horizontal	44	1.27	-



## RSE TX above 1GHz Result\_ FAP-U321EV

## Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.714G	107.50	Inf	-Inf	3.45	3	Horizontal	44	1.27	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.444G	57.30	74.00	-16.70	3.21	3	Horizontal	44	1.27	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4632G	57.70	68.20	-10.50	3.23	3	Horizontal	44	1.27	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7188G	116.70	Inf	-Inf	3.45	3	Horizontal	44	1.27	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.8736G	60.40	68.20	-7.80	3.58	3	Horizontal	44	1.27	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.45G	46.08	54.00	-7.92	3.22	3	Vertical	26	1.45	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7164G	105.53	Inf	-Inf	3.45	3	Vertical	26	1.45	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.45G	57.30	74.00	-16.70	3.22	3	Vertical	26	1.45	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4692G	55.97	68.20	-12.23	3.24	3	Vertical	26	1.45	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7236G	114.00	Inf	-Inf	3.46	3	Vertical	26	1.45	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.9672G	60.54	68.20	-7.66	3.65	3	Vertical	26	1.45	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.44G	49.78	54.00	-4.22	13.71	3	Horizontal	52	1.51	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44G	60.42	74.00	-13.58	13.71	3	Horizontal	52	1.51	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.44G	50.00	54.00	-4.00	13.71	3	Vertical	62	1.86	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44G	60.18	74.00	-13.82	13.71	3	Vertical	62	1.86	-
802.11ac VHT40_Nss1_(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	AV	5.262G	102.08	Inf	-Inf	3.02	3	Horizontal	343	2.31	-
5270MHz	Pass	AV	5.350005G	53.51	54.00	-0.49	3.11	3	Horizontal	343	2.31	-
5270MHz	Pass	PK	5.2624G	110.23	Inf	-Inf	3.02	3	Horizontal	343	2.31	-
5270MHz	Pass	PK	5.3524G	65.55	74.00	-8.45	3.11	3	Horizontal	343	2.31	-
5270MHz	Pass	AV	5.2756G	99.89	Inf	-Inf	3.03	3	Vertical	3	1.77	-
5270MHz	Pass	AV	5.3508G	51.48	54.00	-2.52	3.11	3	Vertical	3	1.77	-
5270MHz	Pass	PK	5.2636G	108.43	Inf	-Inf	3.02	3	Vertical	3	1.77	-
5270MHz	Pass	PK	5.3504G	64.50	74.00	-9.50	3.11	3	Vertical	3	1.77	-
5270MHz	Pass	AV	15.80784G	47.09	54.00	-6.91	13.66	3	Horizontal	360	1.50	-
5270MHz	Pass	PK	15.8193G	58.20	74.00	-15.80	13.62	3	Horizontal	360	1.50	-
5270MHz	Pass	AV	15.79782G	47.05	54.00	-6.95	13.70	3	Vertical	0	1.50	-
5270MHz	Pass	PK	15.82086G	57.75	74.00	-16.25	13.61	3	Vertical	0	1.50	-
5310MHz	Pass	AV	5.3176G	96.72	Inf	-Inf	3.08	3	Horizontal	339	1.72	-
5310MHz	Pass	AV	5.3504G	53.80	54.00	-0.20	3.11	3	Horizontal	339	1.72	-
5310MHz	Pass	PK	5.3176G	104.57	Inf	-Inf	3.08	3	Horizontal	339	1.72	-
5310MHz	Pass	PK	5.350005G	72.17	74.00	-1.83	3.11	3	Horizontal	339	1.72	-
5310MHz	Pass	AV	5.3156G	95.64	Inf	-Inf	3.08	3	Vertical	7	1.74	-
5310MHz	Pass	AV	5.3508G	52.29	54.00	-1.71	3.11	3	Vertical	7	1.74	-
5310MHz	Pass	PK	5.318G	104.61	Inf	-Inf	3.08	3	Vertical	7	1.74	-
5310MHz	Pass	PK	5.3512G	68.98	74.00	-5.02	3.11	3	Vertical	7	1.74	-
5310MHz	Pass	AV	10.61418G	45.36	54.00	-8.64	13.45	3	Vertical	0	1.50	-
5310MHz	Pass	AV	10.61994G	45.44	54.00	-8.56	13.46	3	Vertical	360	1.50	-
5310MHz	Pass	AV	15.91596G	46.52	54.00	-7.48	13.26	3	Vertical	0	1.50	-
5310MHz	Pass	AV	15.91788G	46.59	54.00	-7.41	13.25	3	Vertical	360	1.50	-
5310MHz	Pass	PK	10.6113G	56.02	74.00	-17.98	13.44	3	Vertical	360	1.50	-
5310MHz	Pass	PK	10.61448G	56.04	74.00	-17.96	13.45	3	Vertical	0	1.50	-
5310MHz	Pass	PK	15.9237G	57.50	74.00	-16.50	13.23	3	Vertical	360	1.50	-
5310MHz	Pass	PK	15.9243G	57.32	74.00	-16.68	13.23	3	Vertical	0	1.50	-
5510MHz	Pass	AV	5.4584G	47.92	54.00	-6.08	3.22	3	Horizontal	337	1.92	-
5510MHz	Pass	AV	5.516G	95.59	Inf	-Inf	3.28	3	Horizontal	337	1.92	-
5510MHz	Pass	PK	5.4556G	60.50	74.00	-13.50	3.22	3	Horizontal	337	1.92	-
5510MHz	Pass	PK	5.468G	67.55	68.20	-0.65	3.23	3	Horizontal	337	1.92	-
5510MHz	Pass	PK	5.5184G	103.98	Inf	-Inf	3.28	3	Horizontal	337	1.92	-



## RSE TX above 1GHz Result\_ FAP-U321EV

## Appendix D.1

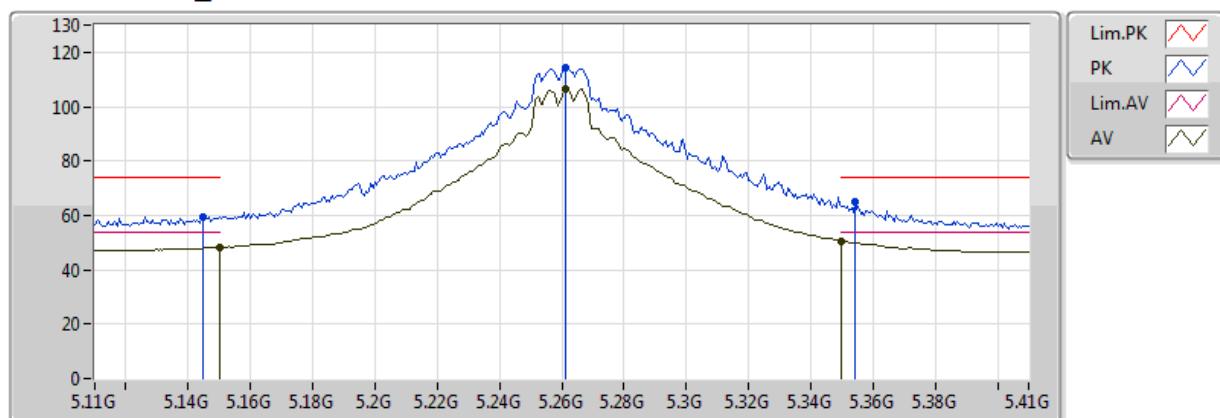
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5510MHz	Pass	AV	5.4588G	47.37	54.00	-6.63	3.22	3	Vertical	22	1.00	-
5510MHz	Pass	AV	5.5192G	95.50	Inf	-Inf	3.29	3	Vertical	22	1.00	-
5510MHz	Pass	PK	5.4584G	61.51	74.00	-12.49	3.22	3	Vertical	22	1.00	-
5510MHz	Pass	PK	5.4692G	67.39	68.20	-0.81	3.24	3	Vertical	22	1.00	-
5510MHz	Pass	PK	5.5164G	103.59	Inf	-Inf	3.28	3	Vertical	22	1.00	-
5510MHz	Pass	AV	11.02942G	46.45	54.00	-7.55	14.41	3	Horizontal	0	1.50	-
5510MHz	Pass	PK	11.01496G	56.74	74.00	-17.26	14.43	3	Horizontal	0	1.50	-
5510MHz	Pass	AV	11.03494G	46.42	54.00	-7.58	14.40	3	Vertical	0	1.50	-
5510MHz	Pass	PK	11.02486G	57.30	74.00	-16.70	14.42	3	Vertical	0	1.50	-
5550MHz	Pass	AV	5.46G	52.30	54.00	-1.70	3.23	3	Horizontal	337	1.89	-
5550MHz	Pass	AV	5.556G	101.95	Inf	-Inf	3.31	3	Horizontal	337	1.89	-
5550MHz	Pass	PK	5.46G	66.02	74.00	-7.98	3.23	3	Horizontal	337	1.89	-
5550MHz	Pass	PK	5.468G	67.36	68.20	-0.84	3.23	3	Horizontal	337	1.89	-
5550MHz	Pass	PK	5.5436G	110.30	Inf	-Inf	3.30	3	Horizontal	337	1.89	-
5550MHz	Pass	AV	5.4588G	51.14	54.00	-2.86	3.22	3	Vertical	22	1.01	-
5550MHz	Pass	AV	5.5564G	101.91	Inf	-Inf	3.32	3	Vertical	22	1.01	-
5550MHz	Pass	PK	5.4584G	63.96	74.00	-10.04	3.22	3	Vertical	22	1.01	-
5550MHz	Pass	PK	5.4684G	65.93	68.20	-2.27	3.24	3	Vertical	22	1.01	-
5550MHz	Pass	PK	5.556G	109.81	Inf	-Inf	3.31	3	Vertical	22	1.01	-
5550MHz	Pass	AV	11.0871G	46.44	54.00	-7.56	14.31	3	Horizontal	0	1.50	-
5550MHz	Pass	PK	11.0859G	57.29	74.00	-16.71	14.31	3	Horizontal	0	1.50	-
5550MHz	Pass	AV	11.11236G	46.30	54.00	-7.70	14.27	3	Vertical	360	1.50	-
5550MHz	Pass	PK	11.0949G	58.65	74.00	-15.35	14.30	3	Vertical	360	1.50	-
5670MHz	Pass	AV	5.6772G	99.38	Inf	-Inf	3.42	3	Horizontal	304	2.04	-
5670MHz	Pass	PK	5.682G	107.41	Inf	-Inf	3.42	3	Horizontal	304	2.04	-
5670MHz	Pass	PK	5.7318G	68.04	68.20	-0.16	3.46	3	Horizontal	304	2.04	-
5670MHz	Pass	AV	5.6766G	97.34	Inf	-Inf	3.42	3	Vertical	21	1.50	-
5670MHz	Pass	PK	5.6736G	105.24	Inf	-Inf	3.42	3	Vertical	21	1.50	-
5670MHz	Pass	PK	5.7294G	63.25	68.20	-4.95	3.46	3	Vertical	21	1.50	-
5670MHz	Pass	AV	11.11338G	46.27	54.00	-7.73	14.27	3	Horizontal	360	1.50	-
5670MHz	Pass	PK	11.09988G	57.75	74.00	-16.25	14.29	3	Horizontal	360	1.50	-
5670MHz	Pass	AV	11.10864G	46.27	54.00	-7.73	14.28	3	Vertical	0	1.50	-
5670MHz	Pass	PK	11.10978G	56.79	74.00	-17.21	14.27	3	Vertical	0	1.50	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.459995G	47.11	54.00	-6.89	3.23	3	Horizontal	311	1.81	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.7172G	103.31	Inf	-Inf	3.45	3	Horizontal	311	1.81	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4412G	57.46	74.00	-16.54	3.21	3	Horizontal	311	1.81	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4604G	57.22	68.20	-10.98	3.23	3	Horizontal	311	1.81	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.7172G	111.55	Inf	-Inf	3.45	3	Horizontal	311	1.81	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.854G	62.09	68.20	-6.11	3.56	3	Horizontal	311	1.81	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4556G	47.10	54.00	-6.90	3.22	3	Vertical	22	1.47	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.6992G	100.97	Inf	-Inf	3.44	3	Vertical	22	1.47	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.459995G	57.56	74.00	-16.44	3.23	3	Vertical	22	1.47	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.464G	58.37	68.20	-9.83	3.23	3	Vertical	22	1.47	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.6992G	109.04	Inf	-Inf	3.44	3	Vertical	22	1.47	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.854G	59.40	68.20	-8.80	3.56	3	Vertical	22	1.47	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.4316G	45.70	54.00	-8.30	13.73	3	Horizontal	360	1.50	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.3612G	56.37	74.00	-17.63	13.85	3	Horizontal	360	1.50	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.41064G	45.67	54.00	-8.33	13.76	3	Vertical	0	1.50	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.41604G	56.45	74.00	-17.55	13.75	3	Vertical	0	1.50	-



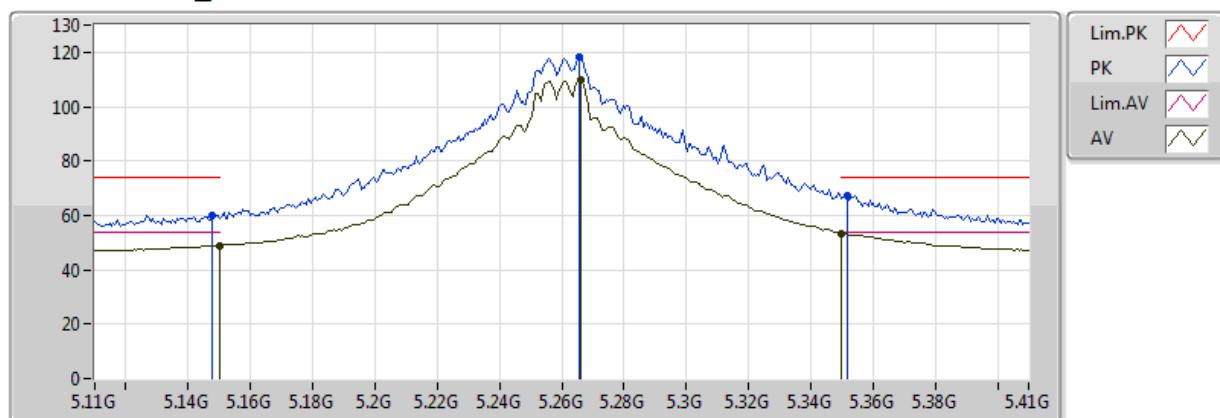
## RSE TX above 1GHz Result\_ FAP-U321EV

## Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	AV	5.101G	47.74	54.00	-6.26	2.85	3	Horizontal	346	2.20	-
5290MHz	Pass	AV	5.302G	93.56	Inf	-Inf	3.06	3	Horizontal	346	2.20	-
5290MHz	Pass	AV	5.359G	53.75	54.00	-0.25	3.12	3	Horizontal	346	2.20	-
5290MHz	Pass	PK	5.096G	57.54	74.00	-16.46	2.85	3	Horizontal	346	2.20	-
5290MHz	Pass	PK	5.307G	101.44	Inf	-Inf	3.07	3	Horizontal	346	2.20	-
5290MHz	Pass	PK	5.357G	68.44	74.00	-5.56	3.12	3	Horizontal	346	2.20	-
5290MHz	Pass	AV	5.14G	47.93	54.00	-6.07	2.89	3	Vertical	8	1.50	-
5290MHz	Pass	AV	5.305G	90.44	Inf	-Inf	3.07	3	Vertical	8	1.50	-
5290MHz	Pass	AV	5.350005G	51.29	54.00	-2.71	3.11	3	Vertical	8	1.50	-
5290MHz	Pass	PK	5.116G	57.50	74.00	-16.50	2.87	3	Vertical	8	1.50	-
5290MHz	Pass	PK	5.302G	97.83	Inf	-Inf	3.06	3	Vertical	8	1.50	-
5290MHz	Pass	PK	5.350005G	66.57	74.00	-7.43	3.11	3	Vertical	8	1.50	-
5290MHz	Pass	AV	15.87534G	46.79	54.00	-7.21	13.41	3	Horizontal	0	1.50	-
5290MHz	Pass	PK	15.8652G	58.05	74.00	-15.95	13.45	3	Horizontal	0	1.50	-
5290MHz	Pass	AV	15.86676G	46.90	54.00	-7.10	13.44	3	Vertical	360	1.50	-
5290MHz	Pass	PK	15.87558G	58.13	74.00	-15.87	13.41	3	Vertical	360	1.50	-
5530MHz	Pass	AV	5.45G	53.74	54.00	-0.26	3.22	3	Horizontal	336	2.02	-
5530MHz	Pass	AV	5.543G	92.61	Inf	-Inf	3.30	3	Horizontal	336	2.02	-
5530MHz	Pass	PK	5.46G	66.28	74.00	-7.72	3.23	3	Horizontal	336	2.02	-
5530MHz	Pass	PK	5.466G	68.00	68.20	-0.20	3.23	3	Horizontal	336	2.02	-
5530MHz	Pass	PK	5.536G	100.08	Inf	-Inf	3.30	3	Horizontal	336	2.02	-
5530MHz	Pass	PK	5.757G	58.15	68.20	-10.05	3.48	3	Horizontal	336	2.02	-
5530MHz	Pass	AV	5.456G	52.96	54.00	-1.04	3.22	3	Vertical	19	1.00	-
5530MHz	Pass	AV	5.544G	92.55	Inf	-Inf	3.31	3	Vertical	19	1.00	-
5530MHz	Pass	PK	5.454G	64.97	74.00	-9.03	3.22	3	Vertical	19	1.00	-
5530MHz	Pass	PK	5.462G	66.70	68.20	-1.50	3.23	3	Vertical	19	1.00	-
5530MHz	Pass	PK	5.556G	100.58	Inf	-Inf	3.31	3	Vertical	19	1.00	-
5530MHz	Pass	PK	5.774G	58.02	68.20	-10.18	3.49	3	Vertical	19	1.00	-
5530MHz	Pass	AV	11.0507G	46.53	54.00	-7.47	14.37	3	Horizontal	0	1.50	-
5530MHz	Pass	PK	11.05538G	57.55	74.00	-16.45	14.37	3	Horizontal	0	1.50	-
5530MHz	Pass	AV	11.06528G	46.51	54.00	-7.49	14.35	3	Vertical	0	1.50	-
5530MHz	Pass	PK	11.04728G	57.12	74.00	-16.88	14.38	3	Vertical	0	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4584G	50.35	54.00	-3.65	3.22	3	Horizontal	297	1.98	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.678G	100.36	Inf	-Inf	3.42	3	Horizontal	297	1.98	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.4356G	60.98	74.00	-13.02	3.20	3	Horizontal	297	1.98	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.468G	62.58	68.20	-5.62	3.23	3	Horizontal	297	1.98	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.6996G	108.08	Inf	-Inf	3.44	3	Horizontal	297	1.98	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8544G	67.82	68.20	-0.38	3.56	3	Horizontal	297	1.98	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4524G	48.83	54.00	-5.17	3.22	3	Vertical	17	1.47	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.6792G	98.40	Inf	-Inf	3.42	3	Vertical	17	1.47	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.42G	58.52	74.00	-15.48	3.18	3	Vertical	17	1.47	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.4608G	59.85	68.20	-8.35	3.23	3	Vertical	17	1.47	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.684G	105.86	Inf	-Inf	3.43	3	Vertical	17	1.47	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8532G	62.68	68.20	-5.52	3.56	3	Vertical	17	1.47	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.3848G	45.84	54.00	-8.16	13.81	3	Horizontal	0	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.4036G	56.84	74.00	-17.16	13.77	3	Horizontal	0	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.4472G	45.78	54.00	-8.22	13.70	3	Vertical	360	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.4792G	56.72	74.00	-17.28	13.65	3	Vertical	360	1.50	-

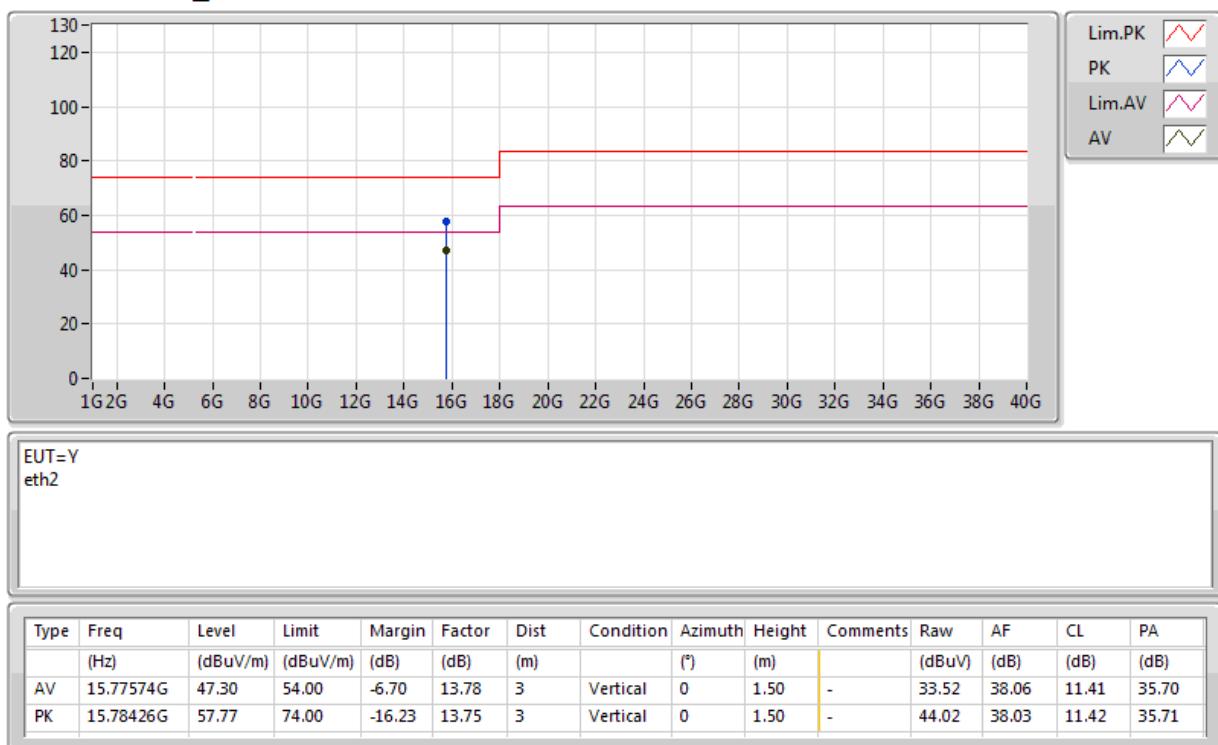
**802.11a\_Nss1,(6Mbps)\_3TX****5260MHz\_TX**EUT=Y  
eth2

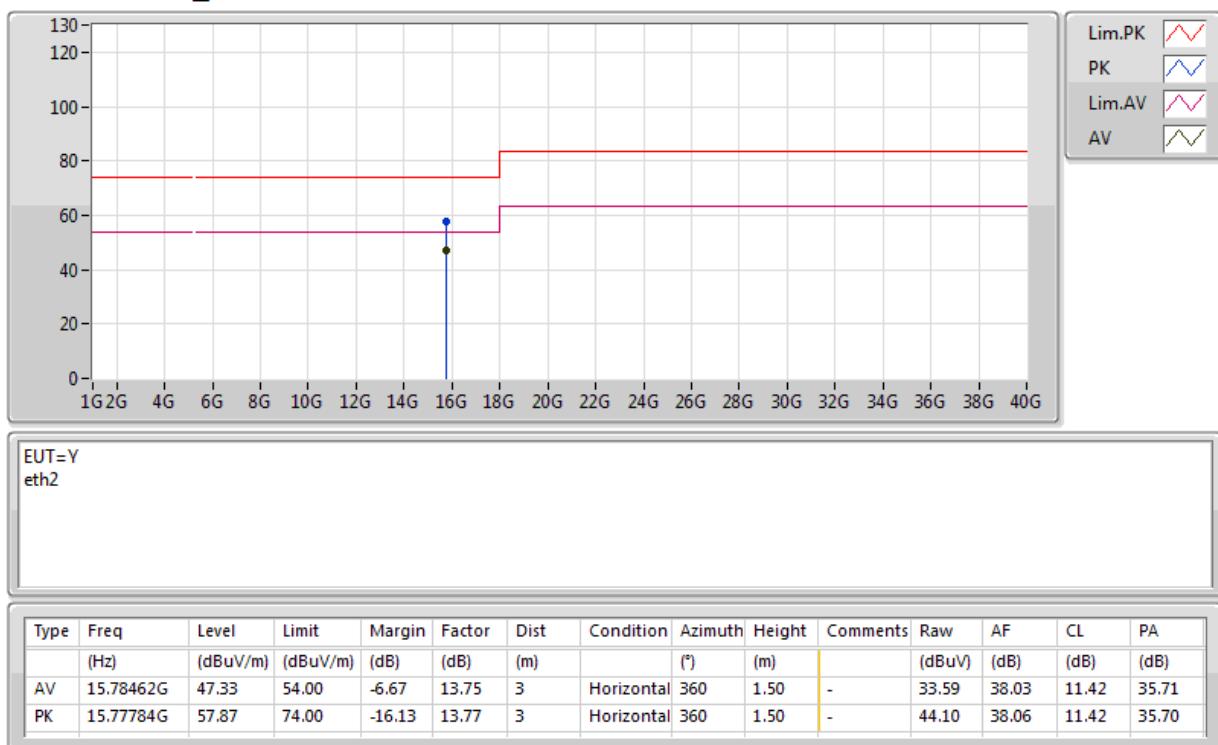
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.149995G	48.45	54.00	-5.55	2.90	3	Vertical	5	1.64	-	45.55	31.62	6.48	35.21
AV	5.2612G	106.28	Inf	-Inf	3.02	3	Vertical	5	1.64	-	103.26	31.71	6.50	35.19
AV	5.350005G	50.61	54.00	-3.39	3.11	3	Vertical	5	1.64	-	47.50	31.78	6.52	35.18
PK	5.1448G	59.46	74.00	-14.54	2.89	3	Vertical	5	1.64	-	56.57	31.62	6.48	35.21
PK	5.2612G	114.31	Inf	-Inf	3.02	3	Vertical	5	1.64	-	111.29	31.71	6.50	35.19
PK	5.3542G	64.72	74.00	-9.28	3.11	3	Vertical	5	1.64	-	61.61	31.78	6.52	35.18

**802.11a\_Nss1,(6Mbps)\_3TX****5260MHz\_TX**

EUT=Y  
eth2

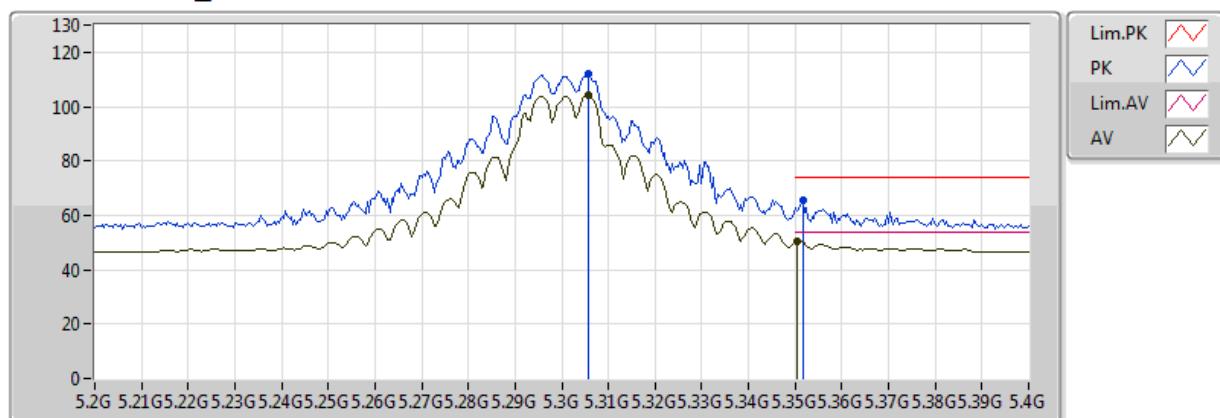
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.149995G	48.98	54.00	-5.02	2.90	3	Horizontal	21	2.13	-	46.08	31.62	6.48	35.21
AV	5.266G	109.87	Inf	-Inf	3.02	3	Horizontal	21	2.13	-	106.84	31.71	6.50	35.19
AV	5.350005G	53.39	54.00	-0.61	3.11	3	Horizontal	21	2.13	-	50.28	31.78	6.52	35.18
PK	5.1478G	59.94	74.00	-14.06	2.90	3	Horizontal	21	2.13	-	57.04	31.62	6.48	35.21
PK	5.2654G	118.11	Inf	-Inf	3.02	3	Horizontal	21	2.13	-	115.09	31.71	6.50	35.19
PK	5.3518G	67.12	74.00	-6.88	3.11	3	Horizontal	21	2.13	-	64.01	31.78	6.52	35.18

**802.11a\_Nss1,(6Mbps)\_3TX****5260MHz\_TX**

**802.11a\_Nss1,(6Mbps)\_3TX****5260MHz\_TX**

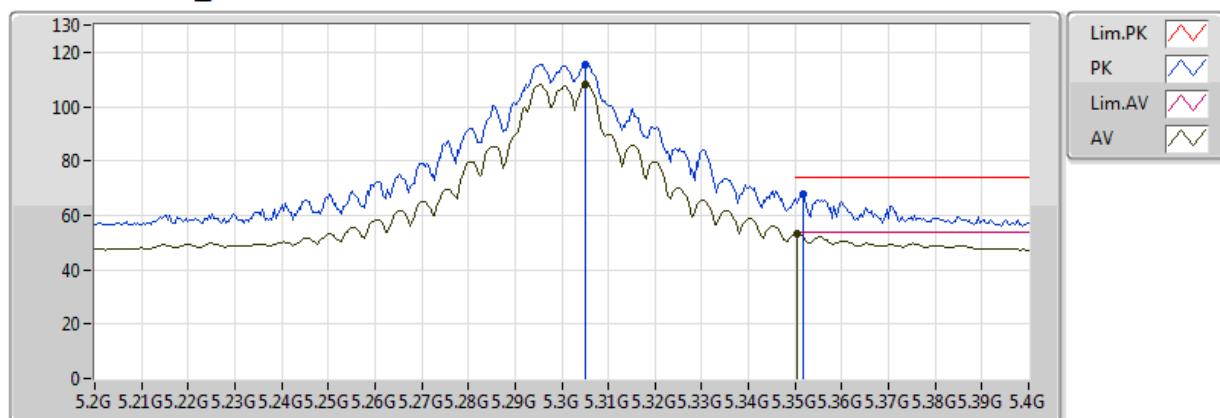
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### **5300MHz\_TX**



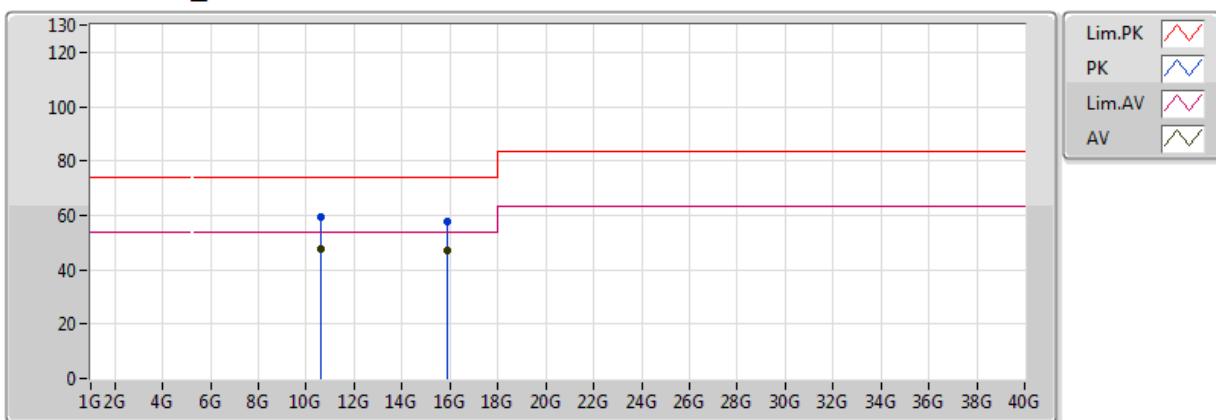
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.3056G	104.44	Inf	-Inf	3.07	3	Vertical	10	1.49	-	101.38	31.74	6.51	35.19
AV	5.3504G	50.55	54.00	-3.45	3.11	3	Vertical	10	1.49	-	47.44	31.78	6.52	35.18
PK	5.3056G	111.95	Inf	-Inf	3.07	3	Vertical	10	1.49	-	108.88	31.74	6.51	35.19
PK	5.3516G	65.41	74.00	-8.59	3.11	3	Vertical	10	1.49	-	62.30	31.78	6.52	35.18

**802.11a\_Nss1,(6Mbps)\_3TX**
**5300MHz\_TX**


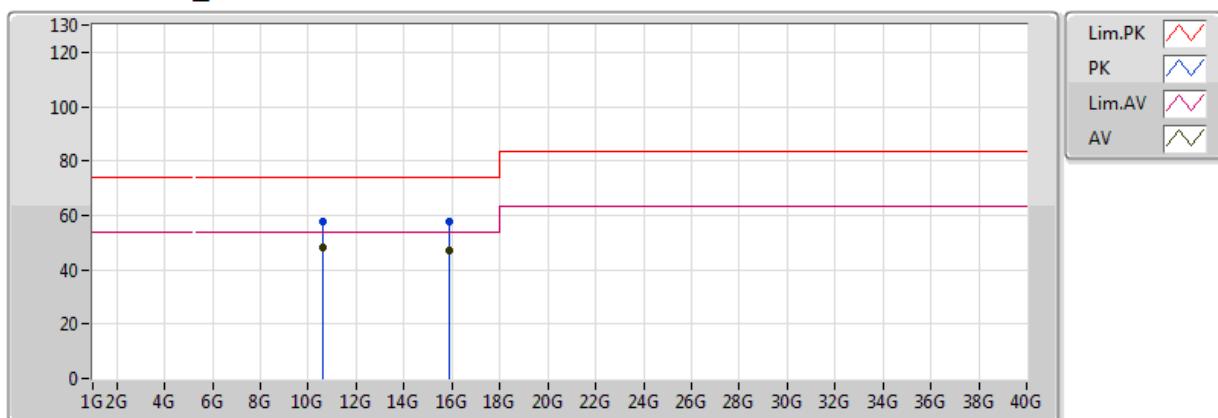
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.3052G	108.07	Inf	-Inf	3.07	3	Horizontal	26	2.01	-	105.00	31.74	6.51	35.19
AV	5.3504G	53.41	54.00	-0.59	3.11	3	Horizontal	26	2.01	-	50.30	31.78	6.52	35.18
PK	5.3052G	115.58	Inf	-Inf	3.07	3	Horizontal	26	2.01	-	112.52	31.74	6.51	35.19
PK	5.3516G	67.89	74.00	-6.11	3.11	3	Horizontal	26	2.01	-	64.78	31.78	6.52	35.18

**802.11a\_Nss1,(6Mbps)\_3TX****5300MHz\_TX**

EUT=Y  
eth2

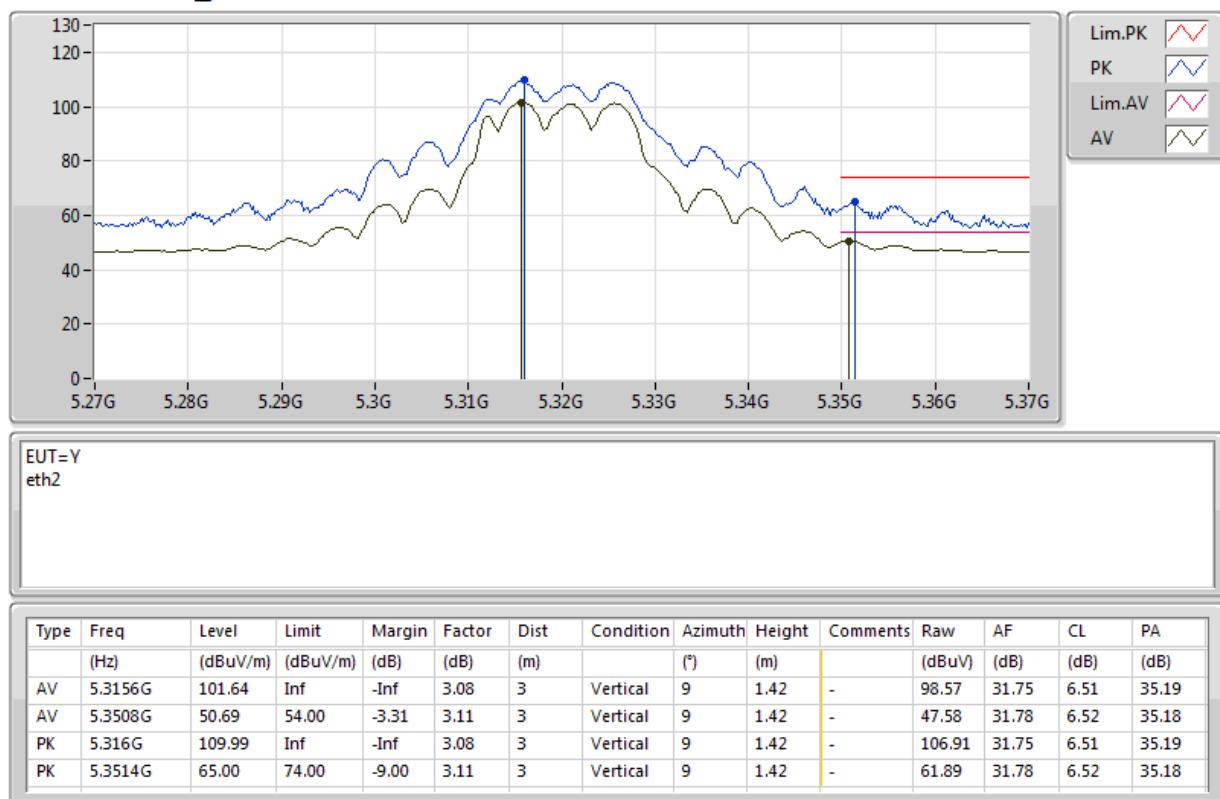
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AV	10.6003G	47.66	54.00	-6.34	13.41	3	Vertical	0	1.50	-	34.25	39.74	9.32	35.65
AV	15.90156G	46.89	54.00	-7.11	13.31	3	Vertical	360	1.50	-	33.58	37.63	11.52	35.84
PK	10.59502G	59.14	74.00	-14.86	13.40	3	Vertical	0	1.50	-	45.74	39.73	9.32	35.65
PK	15.89052G	57.86	74.00	-16.14	13.36	3	Vertical	360	1.50	-	44.51	37.67	11.51	35.83

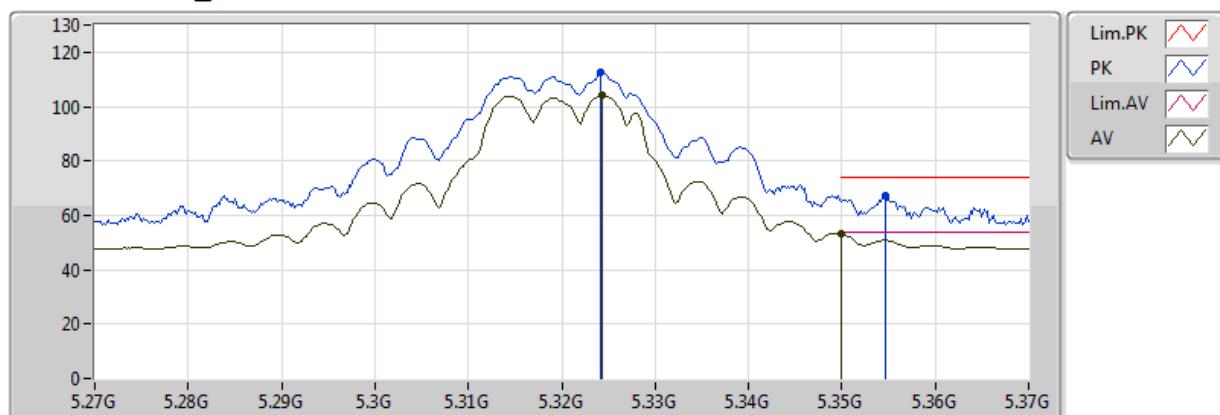
**802.11a\_Nss1,(6Mbps)\_3TX****5300MHz\_TX**

Lim.PK   
PK   
Lim.AV   
AV

EUT=Y  
eth2

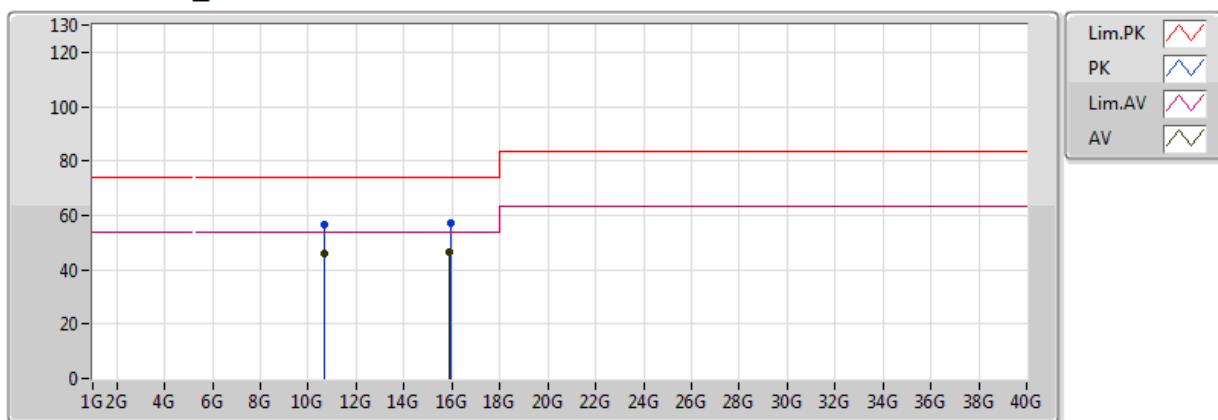
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AV	10.6G	48.18	54.00	-5.82	13.41	3	Horizontal	360	1.50	-	34.76	39.74	9.32	35.65
AV	15.89G	46.90	54.00	-7.10	13.36	3	Horizontal	0	1.50	-	33.54	37.67	11.51	35.83
PK	10.6G	57.49	74.00	-16.51	13.41	3	Horizontal	360	1.50	-	44.08	39.74	9.32	35.65
PK	15.8804G	57.78	74.00	-16.22	13.39	3	Horizontal	0	1.50	-	44.39	37.71	11.50	35.81

**802.11a\_Nss1,(6Mbps)\_3TX****5320MHz\_TX**

**802.11a\_Nss1,(6Mbps)\_3TX**
**5320MHz\_TX**


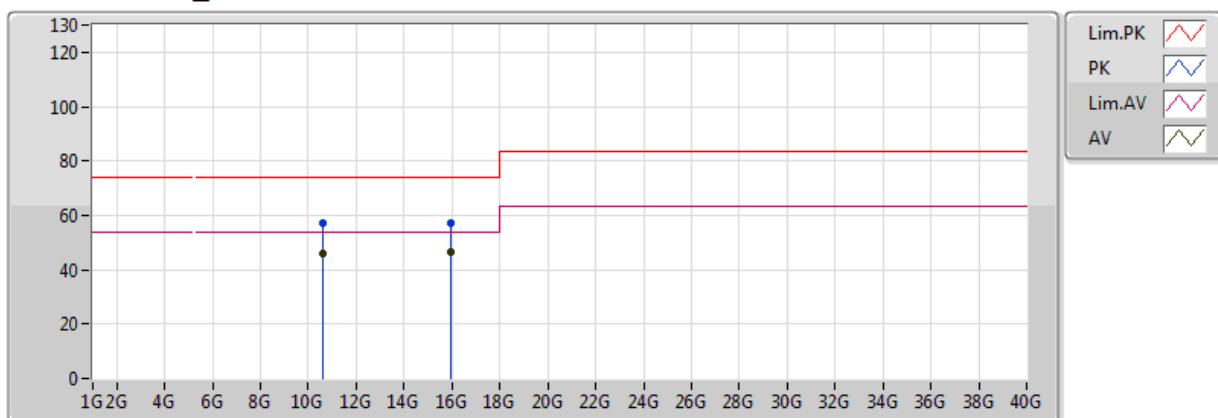
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.3244G	103.96	Inf	-Inf	3.08	3	Horizontal	345	2.19	-	100.87	31.76	6.51	35.19
AV	5.350005G	53.34	54.00	-0.66	3.11	3	Horizontal	345	2.19	-	50.23	31.78	6.52	35.18
PK	5.3242G	112.55	Inf	-Inf	3.08	3	Horizontal	345	2.19	-	109.46	31.76	6.51	35.19
PK	5.3546G	67.37	74.00	-6.63	3.11	3	Horizontal	345	2.19	-	64.25	31.78	6.52	35.18

**802.11a\_Nss1,(6Mbps)\_3TX****5320MHz\_TX**

EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.6402G	45.87	54.00	-8.13	13.52	3	Vertical	360	1.50	-	32.35	39.80	9.34	35.62
AV	15.9144G	46.66	54.00	-7.34	13.27	3	Vertical	0	1.50	-	33.40	37.59	11.53	35.85
PK	10.64G	56.69	74.00	-17.31	13.52	3	Vertical	360	1.50	-	43.17	39.80	9.34	35.62
PK	15.9638G	57.40	74.00	-16.60	13.08	3	Vertical	0	1.50	-	44.31	37.42	11.57	35.91

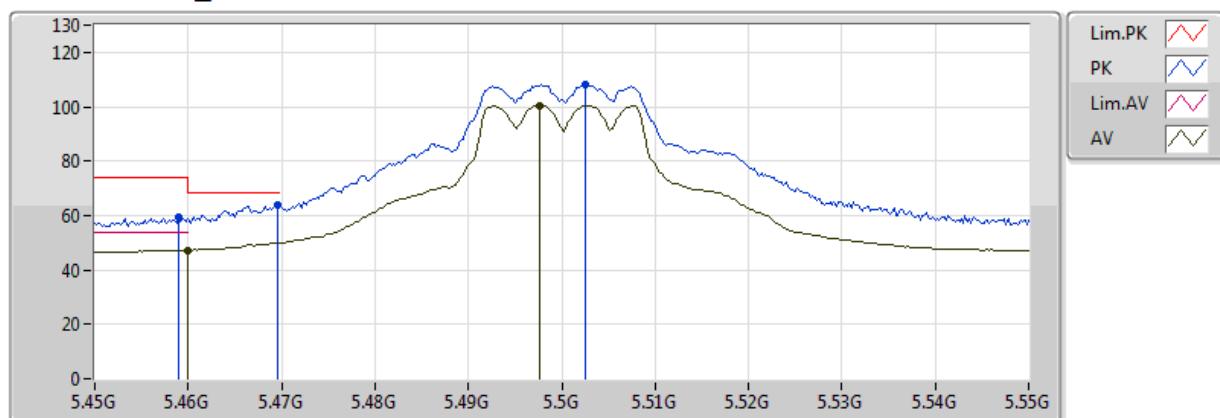
**802.11a\_Nss1,(6Mbps)\_3TX****5320MHz\_TX**

EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.6382G	45.73	54.00	-8.27	13.51	3	Horizontal	0	1.50	-	32.22	39.79	9.34	35.62
AV	15.97056G	46.49	54.00	-7.51	13.06	3	Horizontal	360	1.50	-	33.43	37.40	11.58	35.92
PK	10.6289G	56.96	74.00	-17.04	13.49	3	Horizontal	0	1.50	-	43.47	39.78	9.34	35.63
PK	15.97356G	57.19	74.00	-16.81	13.05	3	Horizontal	360	1.50	-	44.14	37.39	11.58	35.92

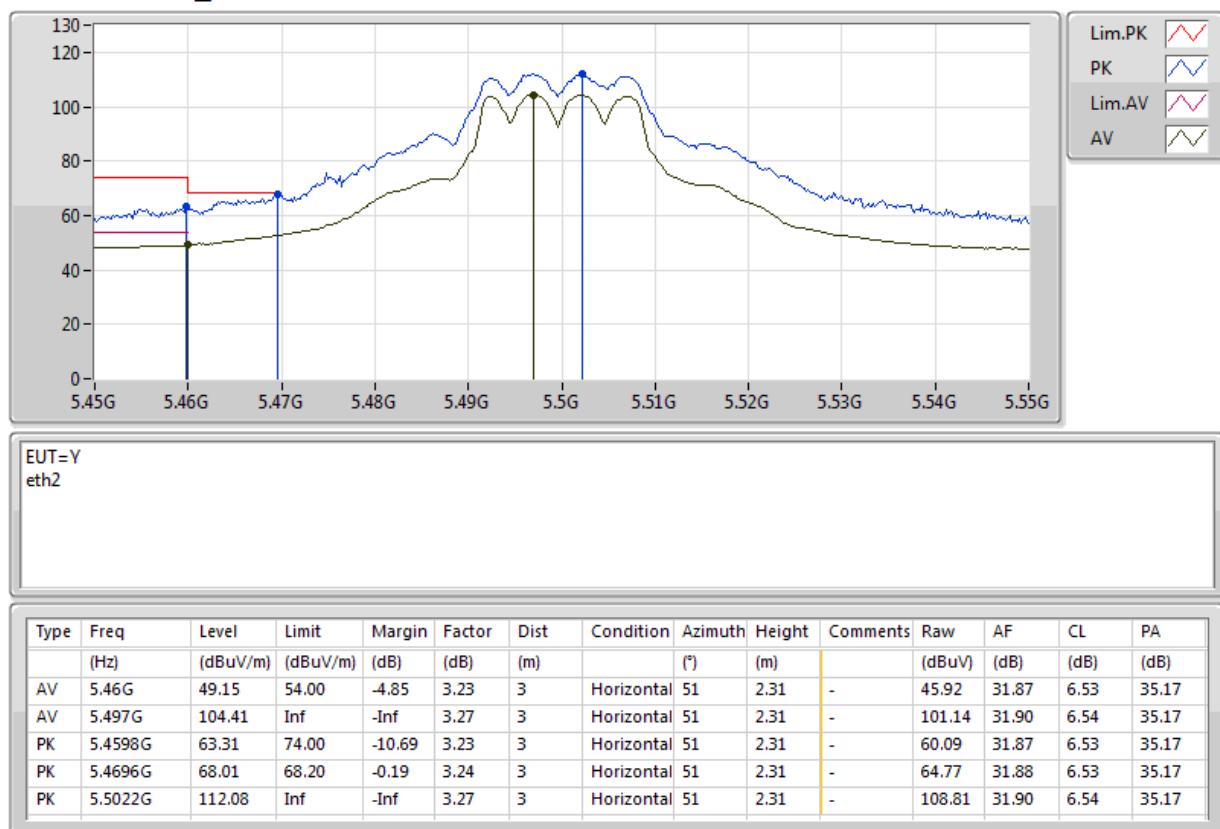
## **802.11a\_Nss1,(6Mbps)\_3TX**

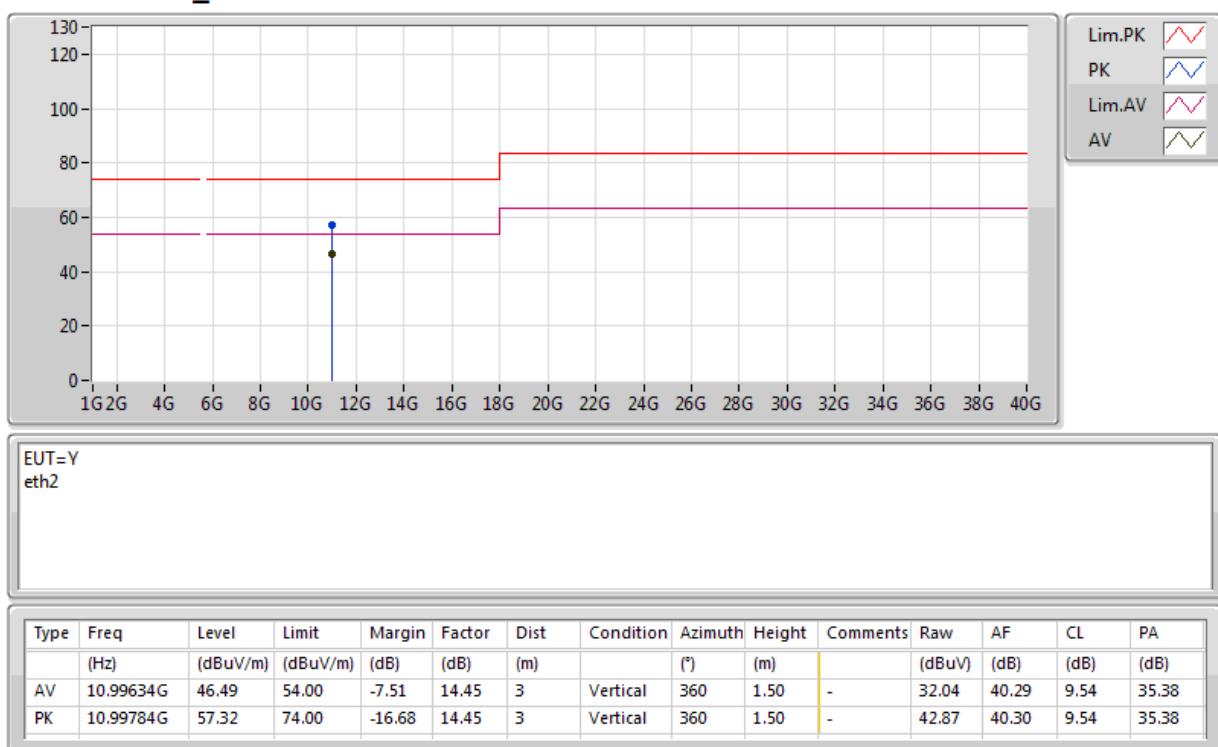
### **5500MHz\_TX**

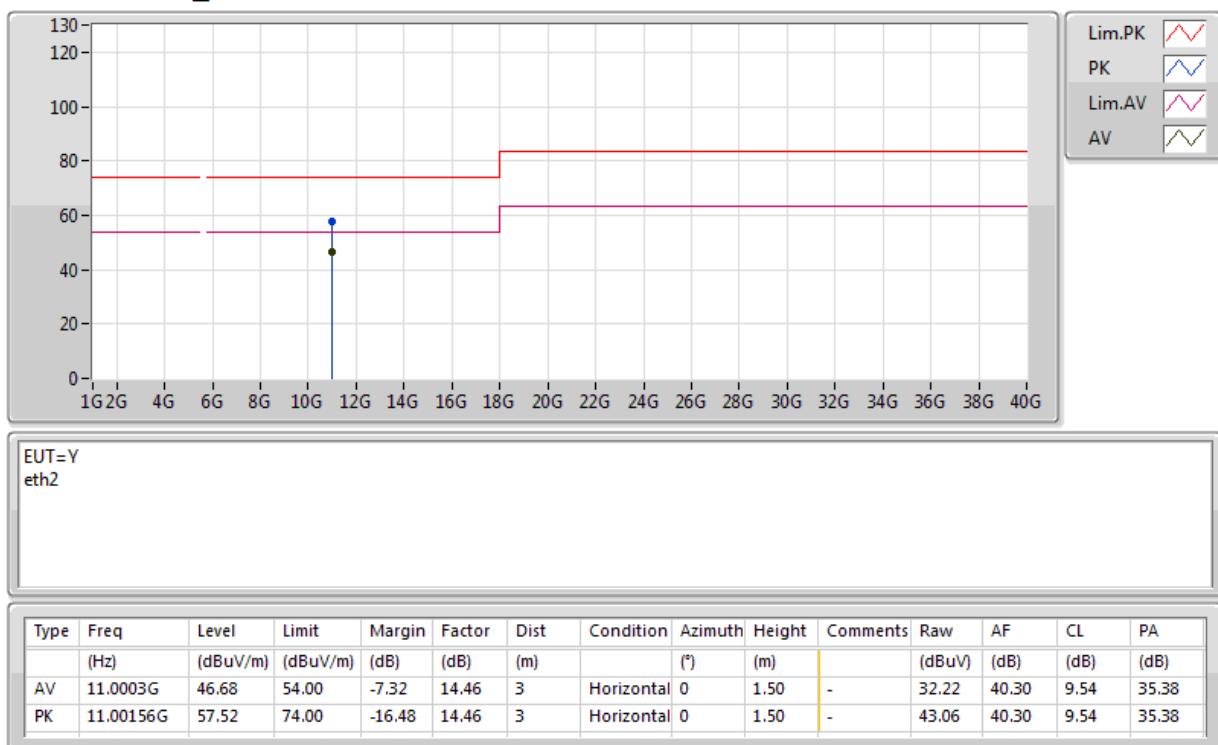


EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.46G	47.23	54.00	-6.77	3.23	3	Vertical	26	1.01	-	44.00	31.87	6.53	35.17
AV	5.4976G	100.55	Inf	-Inf	3.27	3	Vertical	26	1.01	-	97.29	31.90	6.54	35.17
PK	5.459G	59.56	74.00	-14.44	3.22	3	Vertical	26	1.01	-	56.33	31.87	6.53	35.17
PK	5.4696G	64.05	68.20	-4.15	3.24	3	Vertical	26	1.01	-	60.81	31.88	6.53	35.17
PK	5.5026G	108.33	Inf	-Inf	3.27	3	Vertical	26	1.01	-	105.06	31.90	6.54	35.17

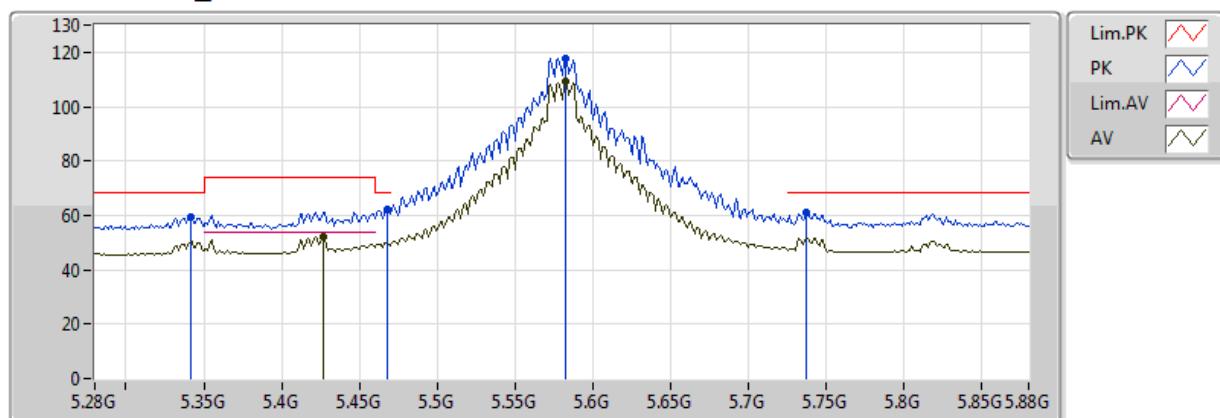
**802.11a\_Nss1,(6Mbps)\_3TX****5500MHz\_TX**

**802.11a\_Nss1,(6Mbps)\_3TX****5500MHz\_TX**

**802.11a\_Nss1,(6Mbps)\_3TX****5500MHz\_TX**

### **802.11a\_Nss1,(6Mbps)\_3TX**

#### **5580MHz\_TX**

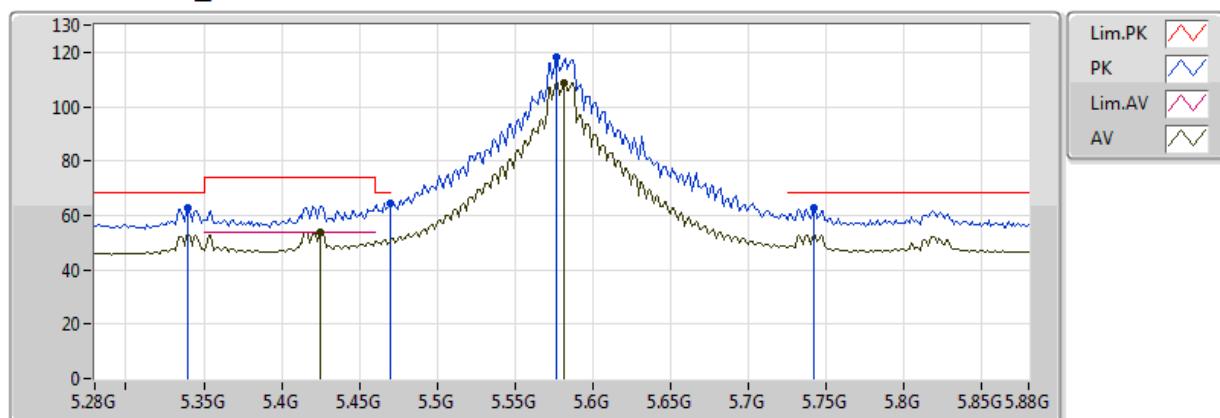


EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4264G	51.87	54.00	-2.13	3.19	3	Vertical	27	1.01	-	48.68	31.84	6.53	35.18
AV	5.5824G	109.06	Inf	-Inf	3.34	3	Vertical	27	1.01	-	105.72	32.00	6.52	35.18
PK	5.3412G	59.47	68.20	-8.73	3.10	3	Vertical	27	1.01	-	56.37	31.77	6.51	35.19
PK	5.4684G	62.43	68.20	-5.77	3.24	3	Vertical	27	1.01	-	59.20	31.87	6.53	35.17
PK	5.5824G	117.56	Inf	-Inf	3.34	3	Vertical	27	1.01	-	114.23	32.00	6.52	35.18
PK	5.7372G	61.03	68.20	-7.17	3.47	3	Vertical	27	1.01	-	57.57	32.18	6.47	35.18

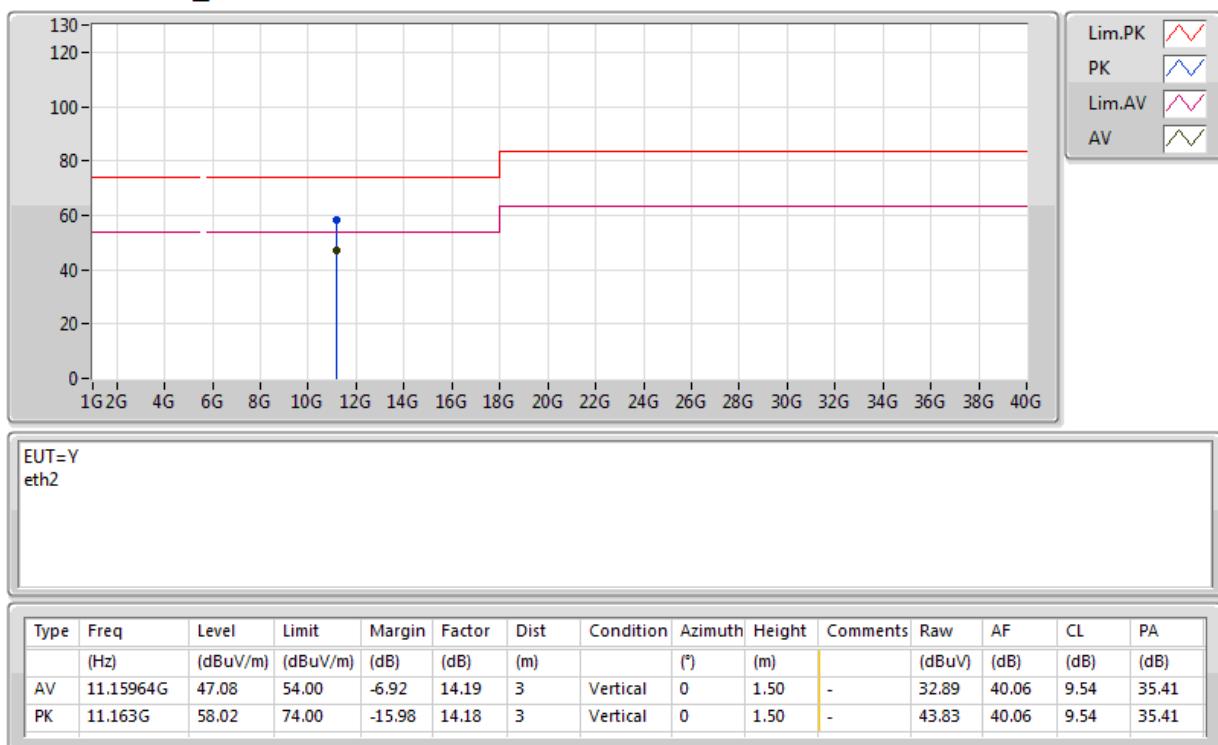
### **802.11a\_Nss1,(6Mbps)\_3TX**

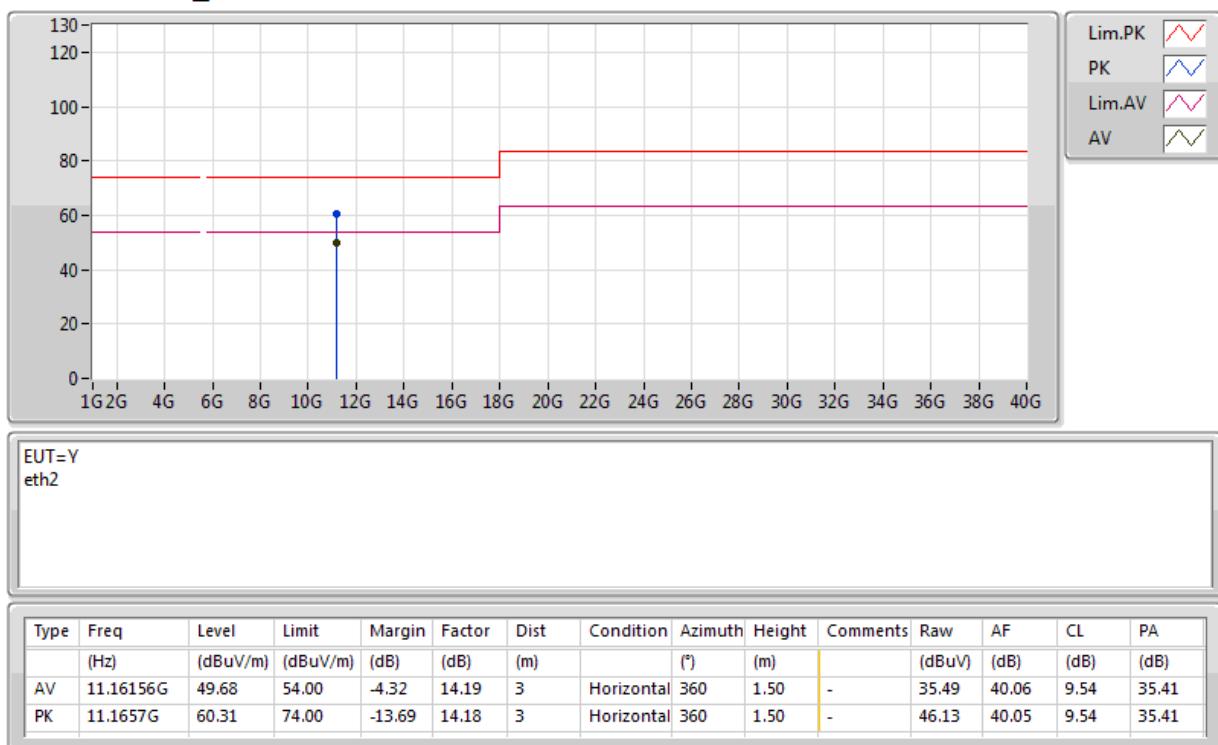
#### **5580MHz\_TX**



EUT=Y  
eth2

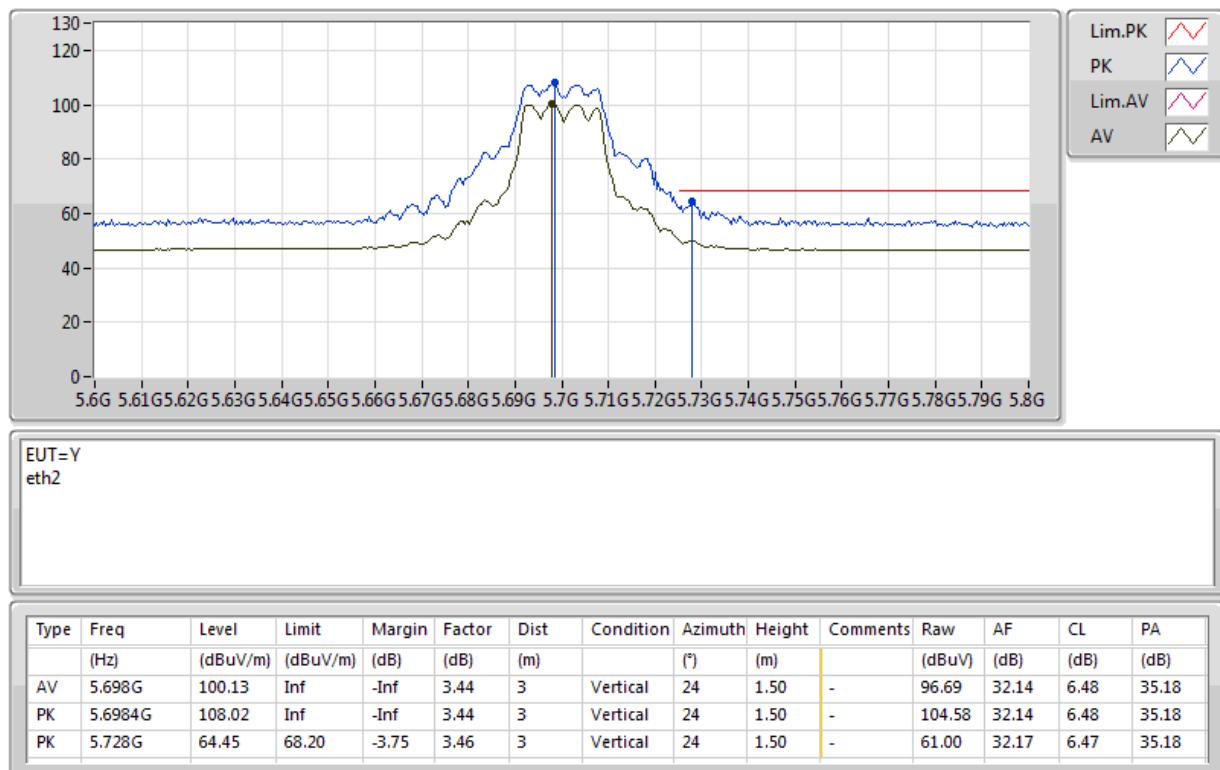
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4252G	53.73	54.00	-0.27	3.19	3	Horizontal	341	1.97	-	50.55	31.84	6.53	35.18
AV	5.5812G	108.98	Inf	-Inf	3.33	3	Horizontal	341	1.97	-	105.65	32.00	6.52	35.18
PK	5.34G	62.55	68.20	-5.65	3.10	3	Horizontal	341	1.97	-	59.45	31.77	6.51	35.19
PK	5.4696G	64.64	68.20	-3.56	3.24	3	Horizontal	341	1.97	-	61.41	31.88	6.53	35.17
PK	5.5764G	118.06	Inf	-Inf	3.33	3	Horizontal	341	1.97	-	114.73	31.99	6.52	35.18
PK	5.742G	62.67	68.20	-5.53	3.47	3	Horizontal	341	1.97	-	59.20	32.19	6.46	35.18

**802.11a\_Nss1,(6Mbps)\_3TX****5580MHz\_TX**

**802.11a\_Nss1,(6Mbps)\_3TX****5580MHz\_TX**

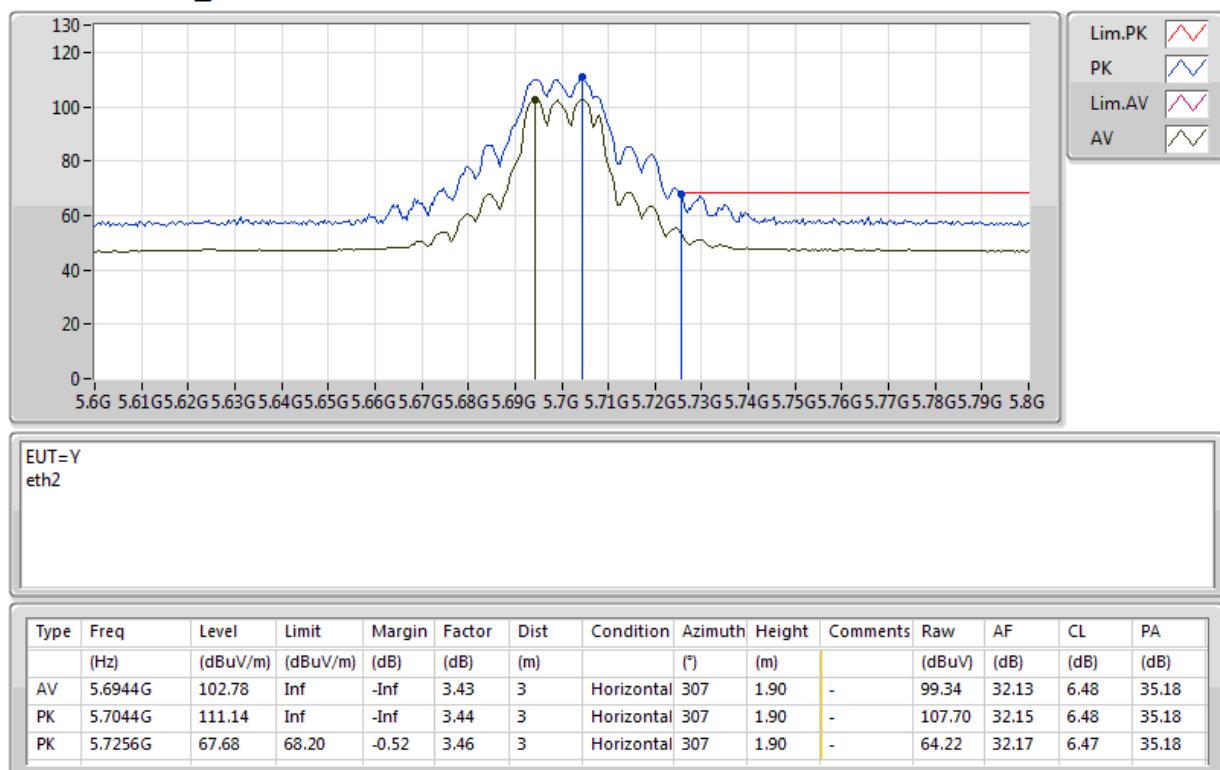
## **802.11a\_Nss1,(6Mbps)\_3TX**

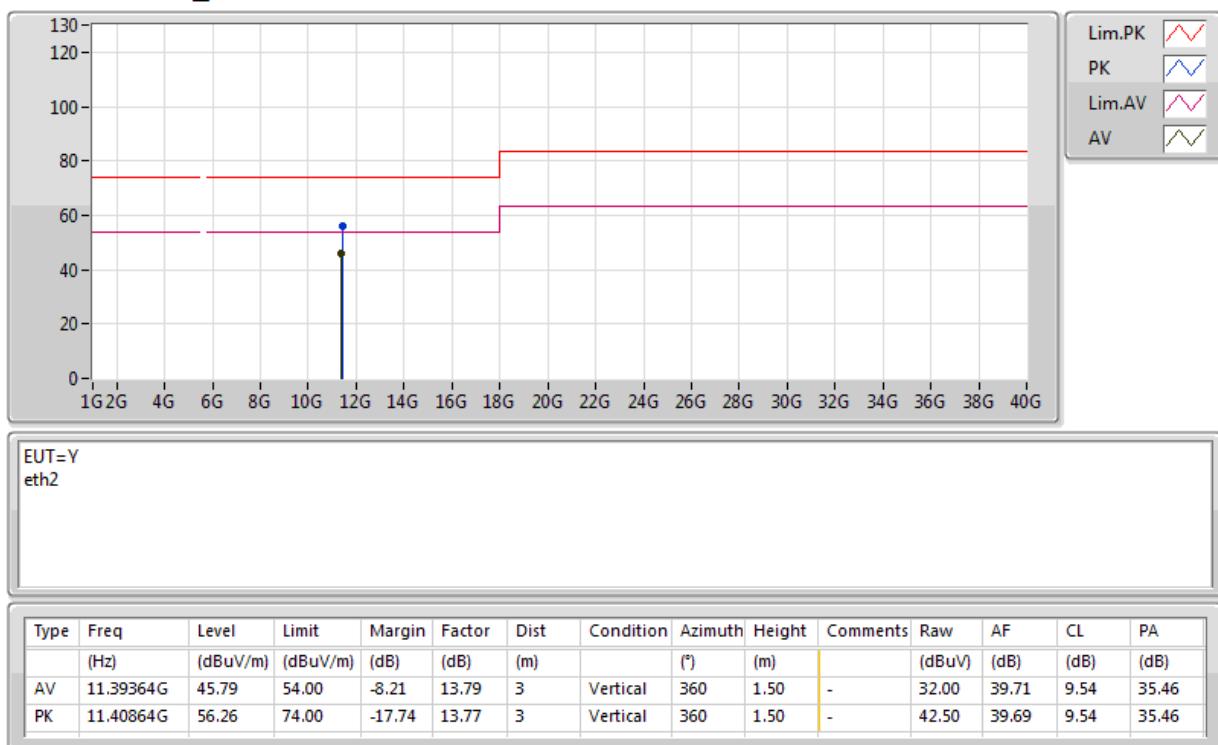
### **5700MHz\_TX**

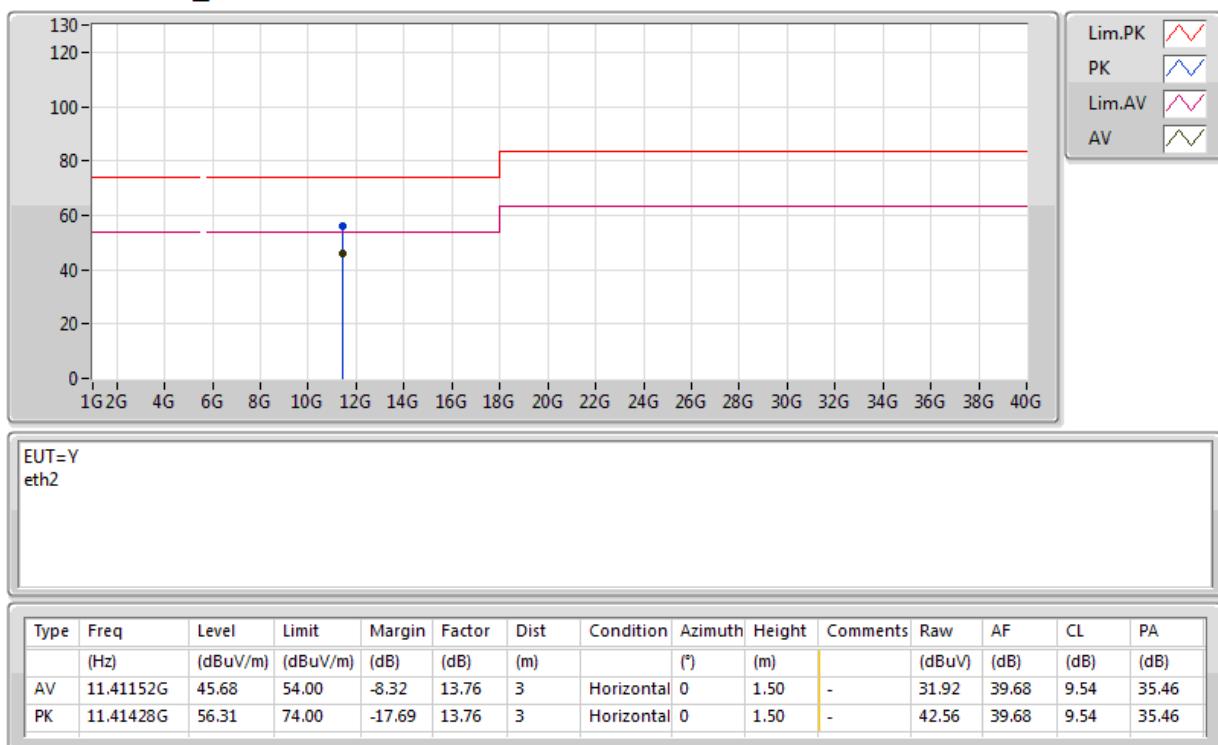


## **802.11a\_Nss1,(6Mbps)\_3TX**

### **5700MHz\_TX**

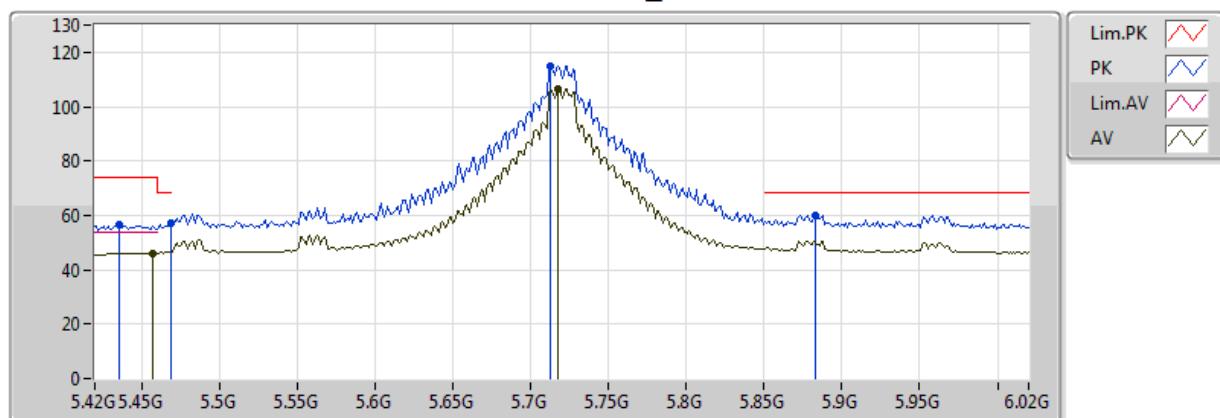


**802.11a\_Nss1,(6Mbps)\_3TX****5700MHz\_TX**

**802.11a\_Nss1,(6Mbps)\_3TX****5700MHz\_TX**

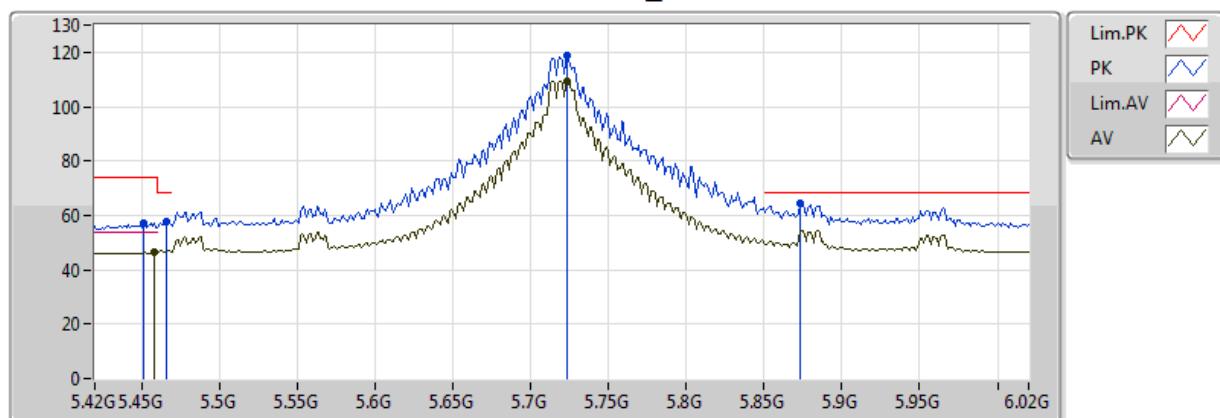
### **802.11a\_Nss1,(6Mbps)\_3TX**

#### **5720MHz Straddle 5.47-5.725GHz\_TX**



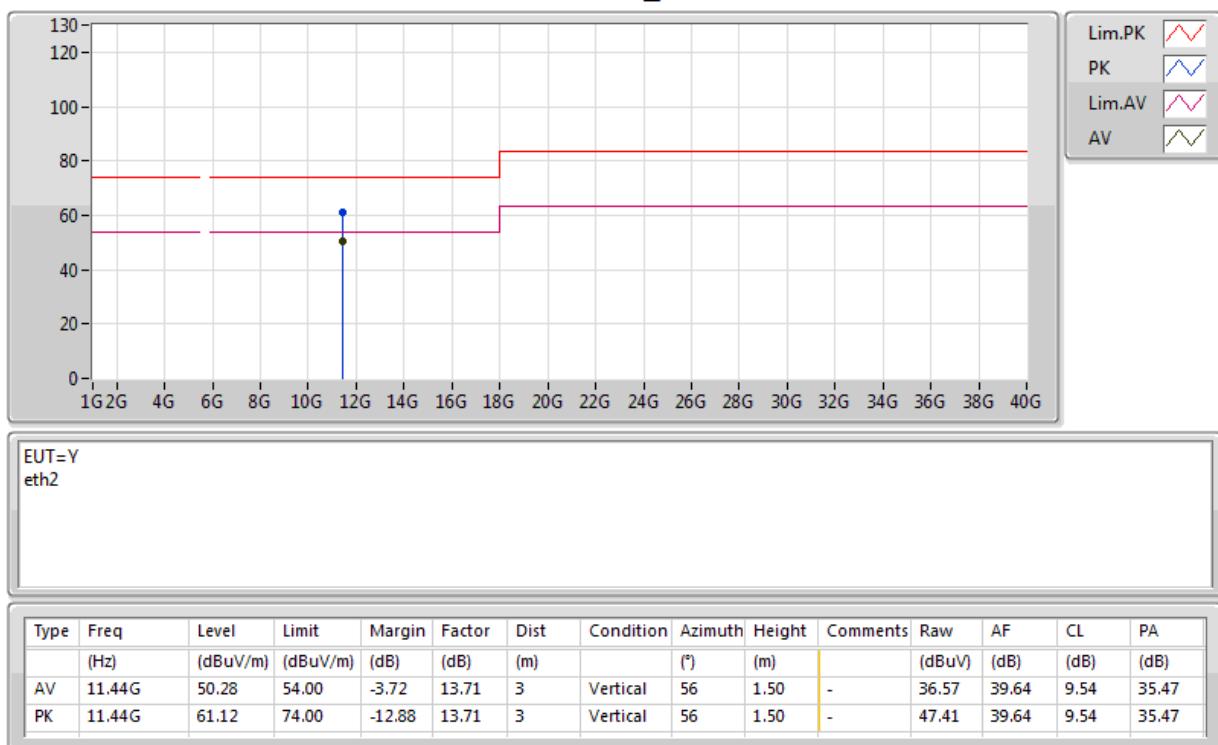
EUT=Y  
eth2

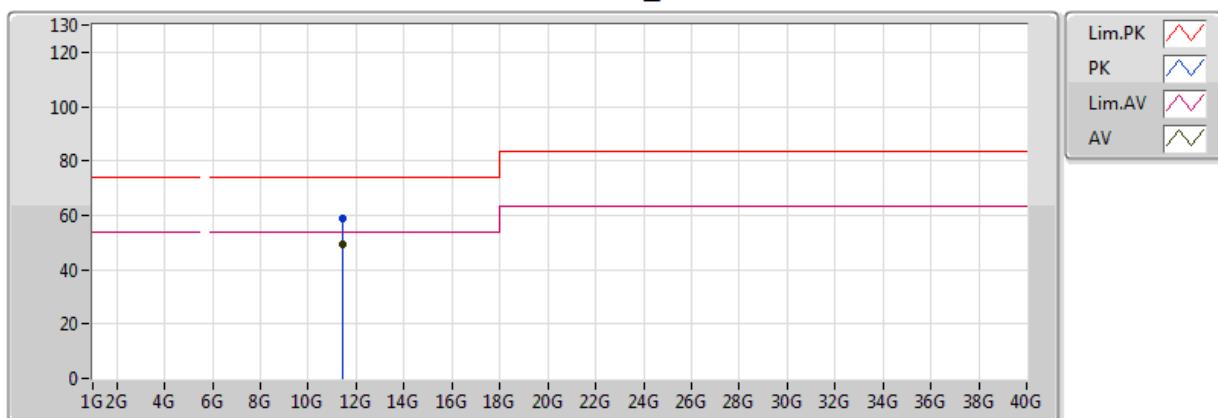
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4572G	46.17	54.00	-7.83	3.22	3	Vertical	23	1.43	-	42.95	31.87	6.53	35.17
AV	5.7176G	106.40	Inf	-Inf	3.45	3	Vertical	23	1.43	-	102.95	32.16	6.47	35.18
PK	5.4356G	56.40	74.00	-17.60	3.20	3	Vertical	23	1.43	-	53.20	31.85	6.53	35.18
PK	5.4692G	56.97	68.20	-11.23	3.24	3	Vertical	23	1.43	-	53.73	31.88	6.53	35.17
PK	5.7128G	115.05	Inf	-Inf	3.45	3	Vertical	23	1.43	-	111.60	32.16	6.47	35.18
PK	5.8832G	60.22	68.20	-7.98	3.58	3	Vertical	23	1.43	-	56.64	32.36	6.42	35.19

**802.11a\_Nss1,(6Mbps)\_3TX**
**5720MHz Straddle 5.47-5.725GHz\_TX**


EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4584G	46.43	54.00	-7.57	3.22	3	Horizontal	309	1.91	-	43.21	31.87	6.53	35.17
AV	5.7236G	109.37	Inf	-Inf	3.46	3	Horizontal	309	1.91	-	105.92	32.17	6.47	35.18
PK	5.4512G	57.33	74.00	-16.67	3.22	3	Horizontal	309	1.91	-	54.12	31.86	6.53	35.17
PK	5.4656G	57.70	68.20	-10.50	3.23	3	Horizontal	309	1.91	-	54.47	31.87	6.53	35.17
PK	5.7236G	118.95	Inf	-Inf	3.46	3	Horizontal	309	1.91	-	115.49	32.17	6.47	35.18
PK	5.8736G	64.27	68.20	-3.93	3.58	3	Horizontal	309	1.91	-	60.69	32.35	6.42	35.19

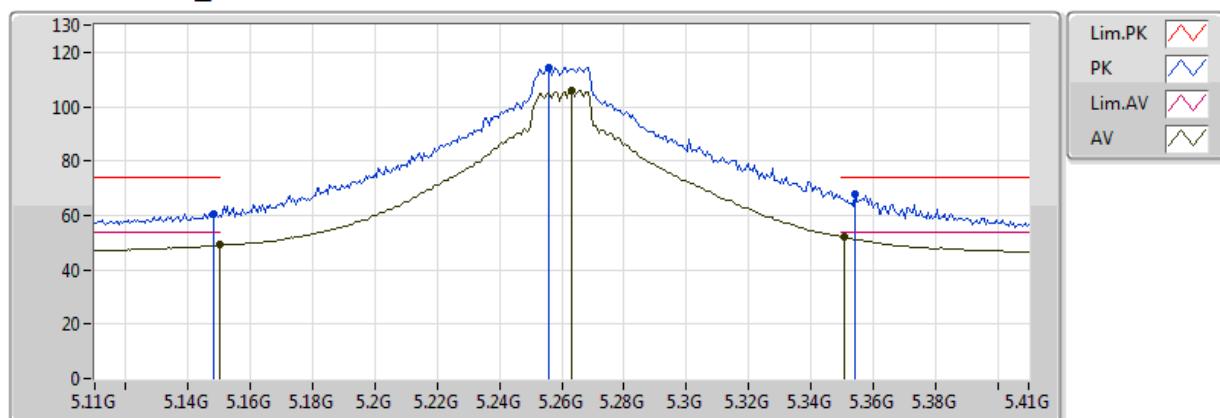
**802.11a\_Nss1,(6Mbps)\_3TX****5720MHz Straddle 5.47-5.725GHz\_TX**

**802.11a\_Nss1,(6Mbps)\_3TX****5720MHz Straddle 5.47-5.725GHz\_TX**

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.44G	49.30	54.00	-4.70	13.71	3	Horizontal	51	1.53	-	35.59	39.64	9.54	35.47
PK	11.44G	58.96	74.00	-15.04	13.71	3	Horizontal	51	1.53	-	45.25	39.64	9.54	35.47

### **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

#### **5260MHz\_TX**

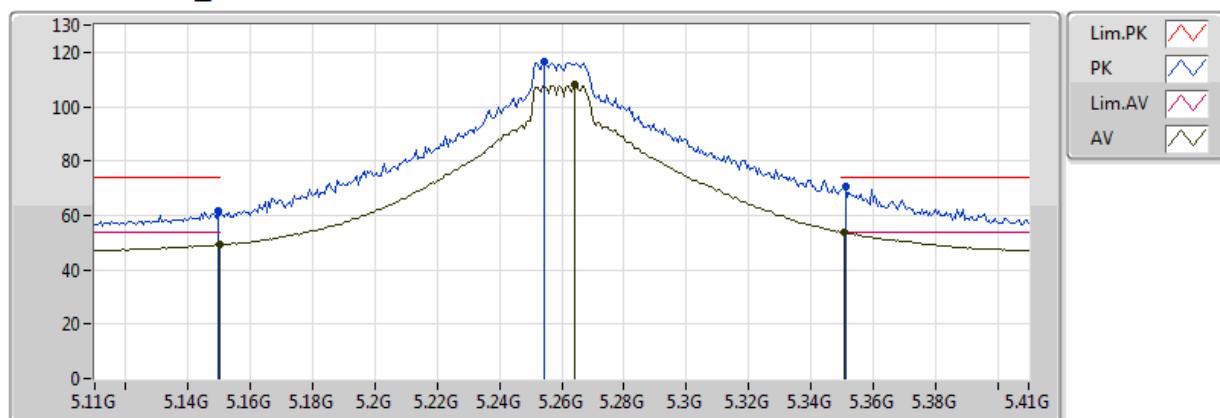


EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.149995G	49.21	54.00	-4.79	2.90	3	Vertical	6	1.65	-	46.31	31.62	6.48	35.21
AV	5.263G	105.92	Inf	-Inf	3.02	3	Vertical	6	1.65	-	102.90	31.71	6.50	35.19
AV	5.3506G	51.86	54.00	-2.14	3.11	3	Vertical	6	1.65	-	48.75	31.78	6.52	35.18
PK	5.1484G	60.50	74.00	-13.50	2.90	3	Vertical	6	1.65	-	57.61	31.62	6.48	35.21
PK	5.2558G	114.51	Inf	-Inf	3.01	3	Vertical	6	1.65	-	111.50	31.70	6.50	35.19
PK	5.3542G	68.07	74.00	-5.93	3.11	3	Vertical	6	1.65	-	64.95	31.78	6.52	35.18

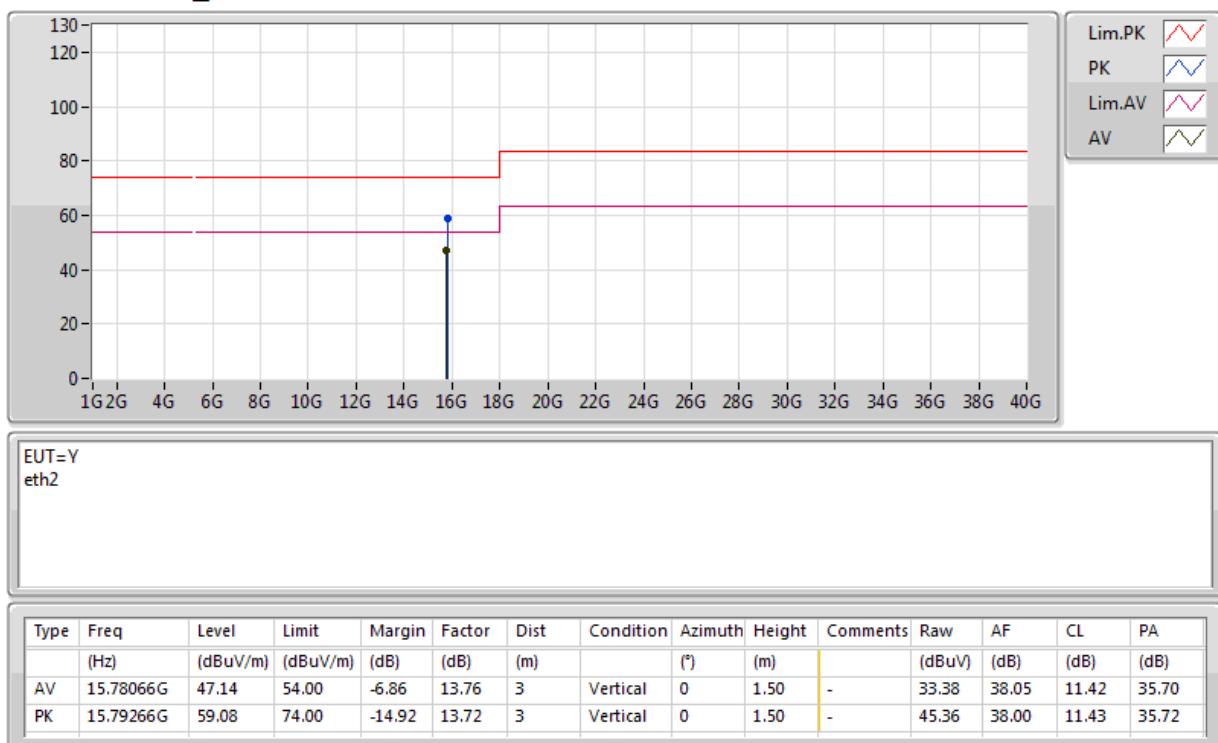
## 802.11ac VHT20\_Nss1,(MCS0)\_3TX

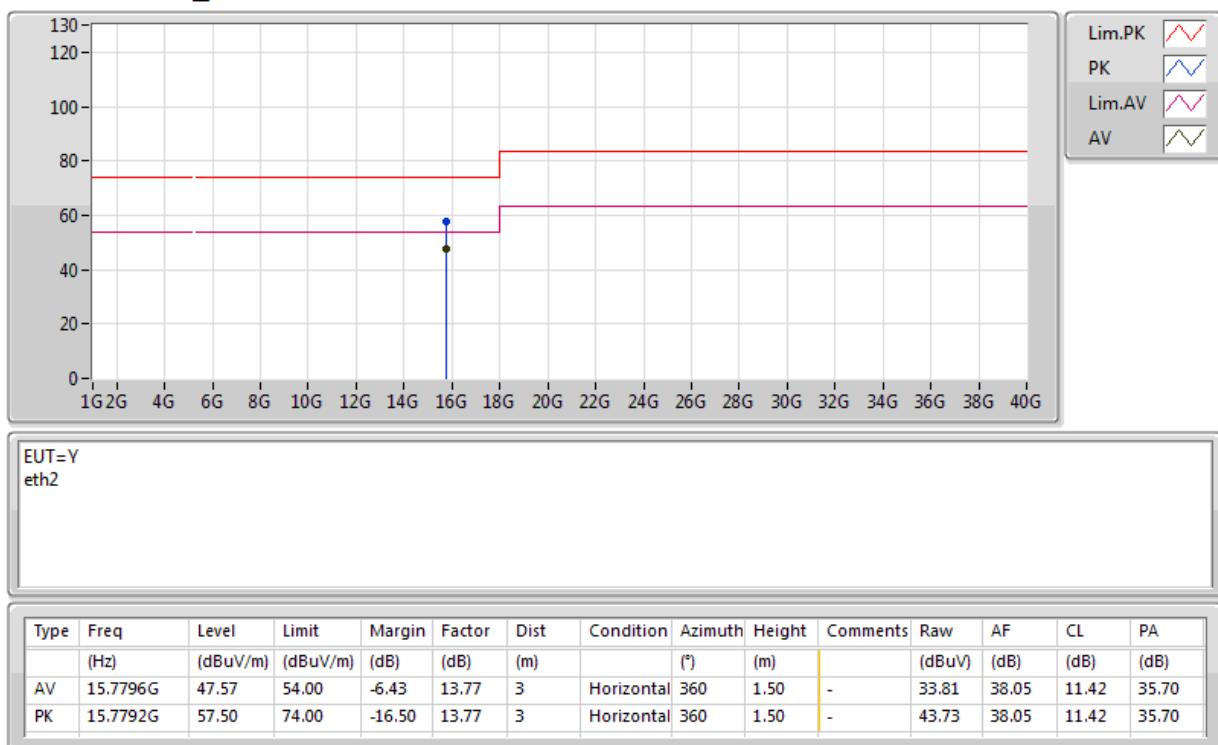
### 5260MHz\_TX



EUT=Y  
eth2

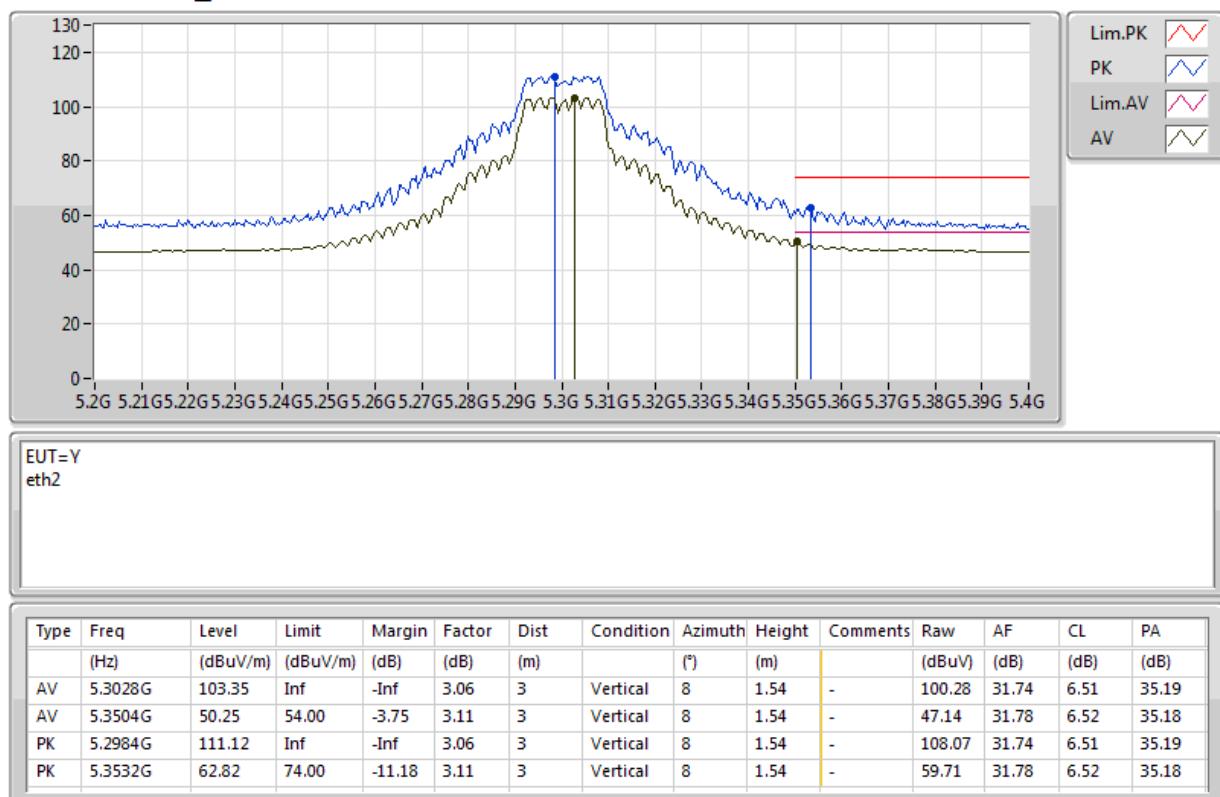
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.149995G	49.29	54.00	-4.71	2.90	3	Horizontal	346	2.34	-	46.39	31.62	6.48	35.21
AV	5.2642G	107.98	Inf	-Inf	3.02	3	Horizontal	346	2.34	-	104.96	31.71	6.50	35.19
AV	5.3506G	53.79	54.00	-0.21	3.11	3	Horizontal	346	2.34	-	50.68	31.78	6.52	35.18
PK	5.1496G	61.37	74.00	-12.63	2.90	3	Horizontal	346	2.34	-	58.47	31.62	6.48	35.21
PK	5.2546G	116.33	Inf	-Inf	3.01	3	Horizontal	346	2.34	-	113.32	31.70	6.50	35.19
PK	5.3512G	70.39	74.00	-3.61	3.11	3	Horizontal	346	2.34	-	67.27	31.78	6.52	35.18

**802.11ac VHT20\_Nss1,(MCS0)\_3TX****5260MHz\_TX**

**802.11ac VHT20\_Nss1,(MCS0)\_3TX****5260MHz\_TX**

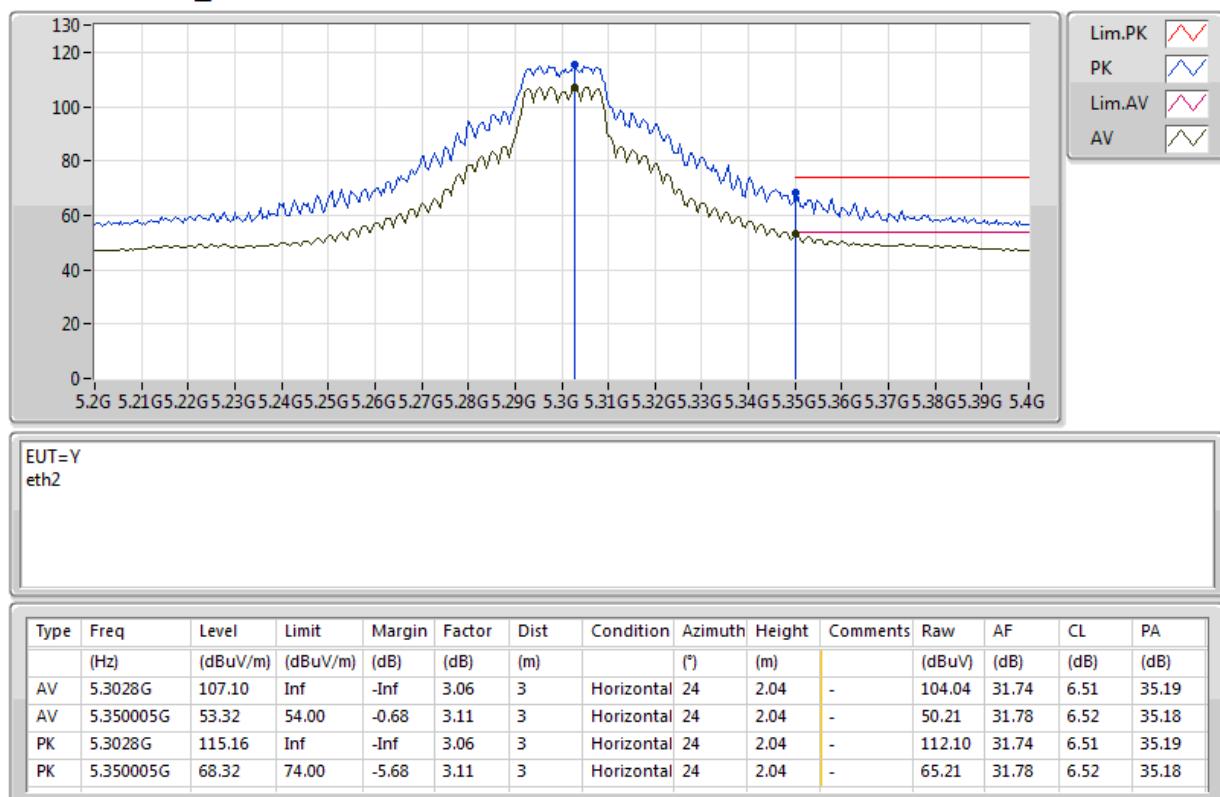
### **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

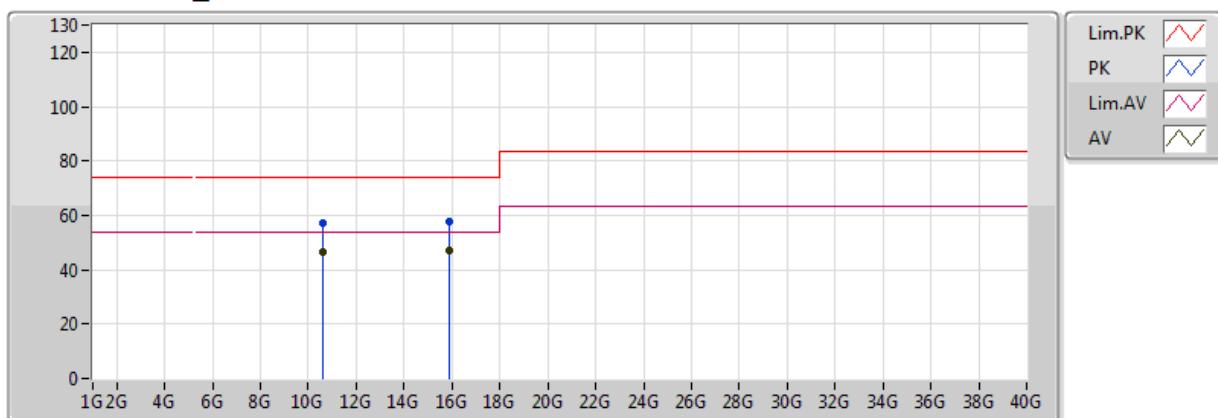
#### **5300MHz\_TX**



## **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

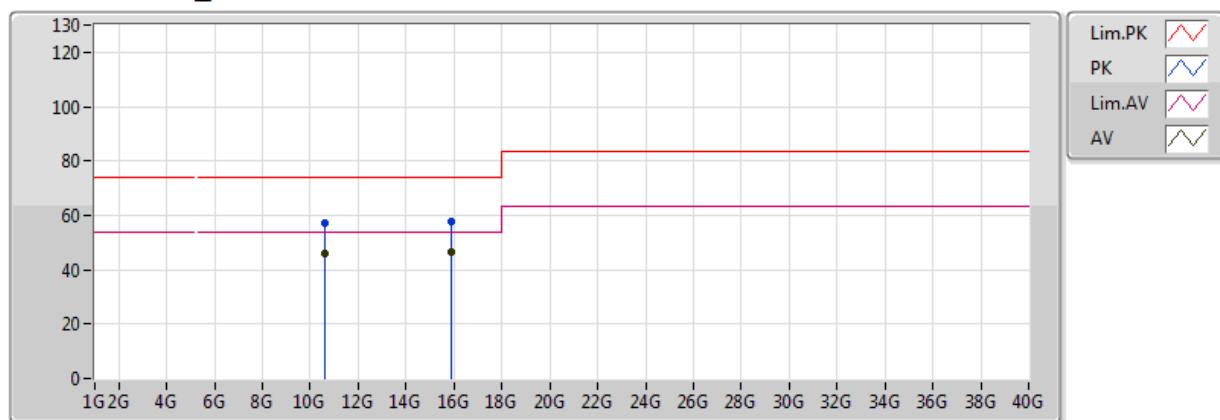
### **5300MHz\_TX**



**802.11ac VHT20\_Nss1,(MCS0)\_3TX****5300MHz\_TX**

EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.60036G	46.73	54.00	-7.27	13.41	3	Vertical	0	1.50	-	33.32	39.74	9.32	35.65
AV	15.90114G	46.84	54.00	-7.16	13.32	3	Vertical	360	1.50	-	33.53	37.64	11.52	35.84
PK	10.58914G	56.90	74.00	-17.10	13.38	3	Vertical	0	1.50	-	43.51	39.72	9.31	35.66
PK	15.91194G	57.68	74.00	-16.32	13.28	3	Vertical	360	1.50	-	44.40	37.60	11.53	35.85

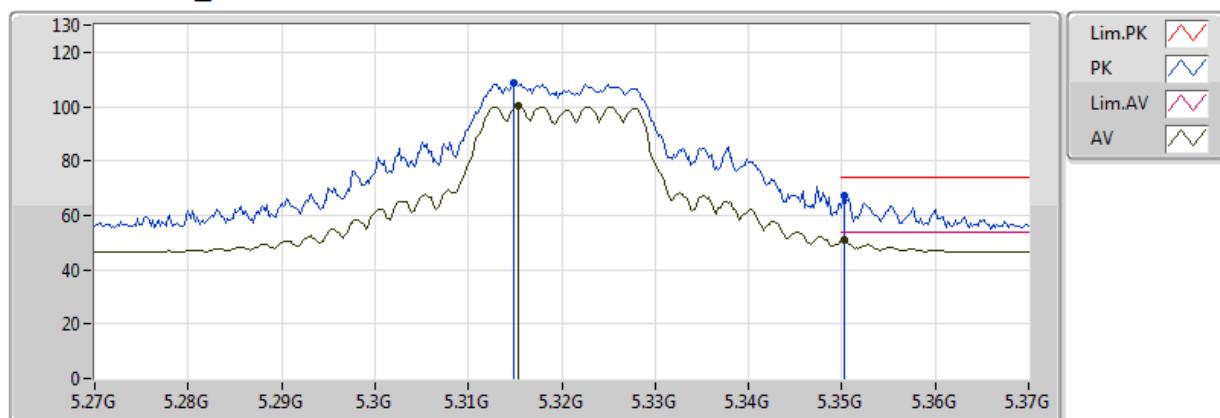
**802.11ac VHT20\_Nss1,(MCS0)\_3TX****5300MHz\_TX**

EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.5991G	45.96	54.00	-8.04	13.41	3	Horizontal	360	1.50	-	32.55	39.74	9.32	35.65
AV	15.89964G	46.62	54.00	-7.38	13.32	3	Horizontal	0	1.50	-	33.30	37.64	11.52	35.84
PK	10.60354G	56.96	74.00	-17.04	13.42	3	Horizontal	360	1.50	-	43.54	39.74	9.32	35.65
PK	15.89358G	57.65	74.00	-16.35	13.34	3	Horizontal	0	1.50	-	44.31	37.66	11.51	35.83

## **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

### **5320MHz\_TX**

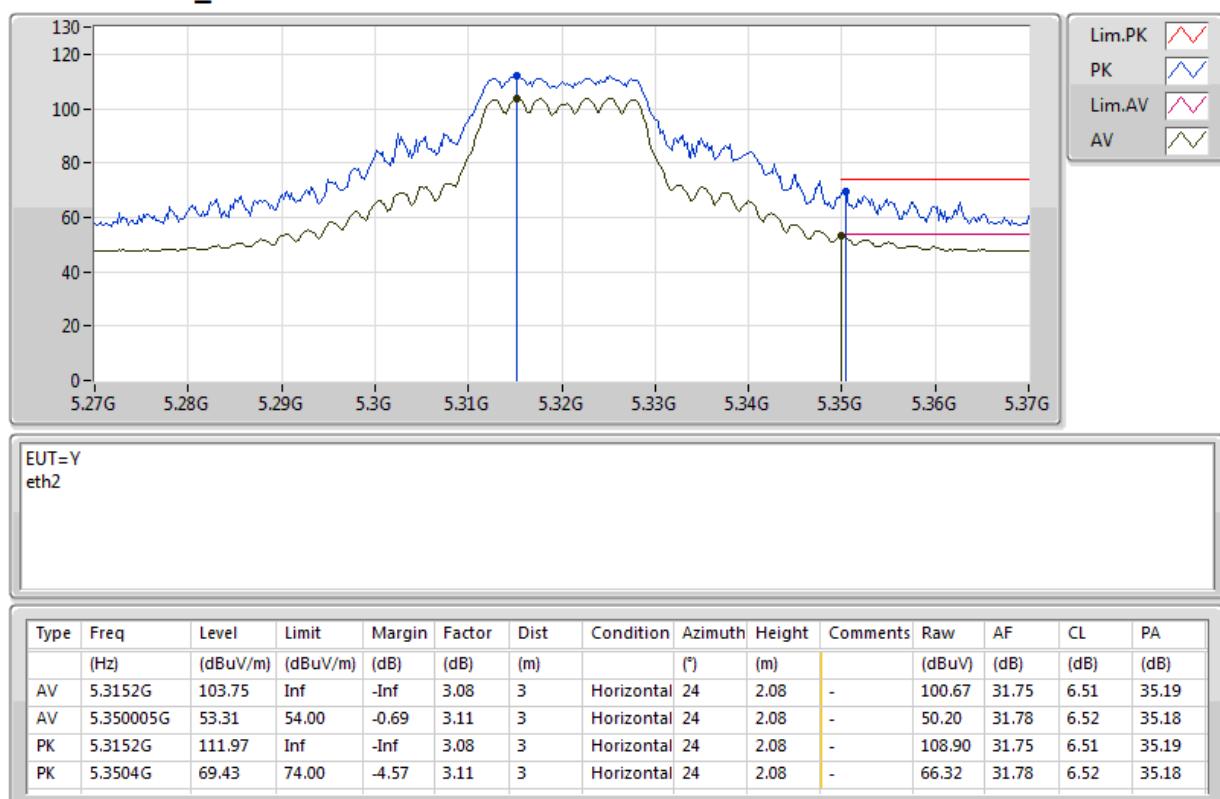


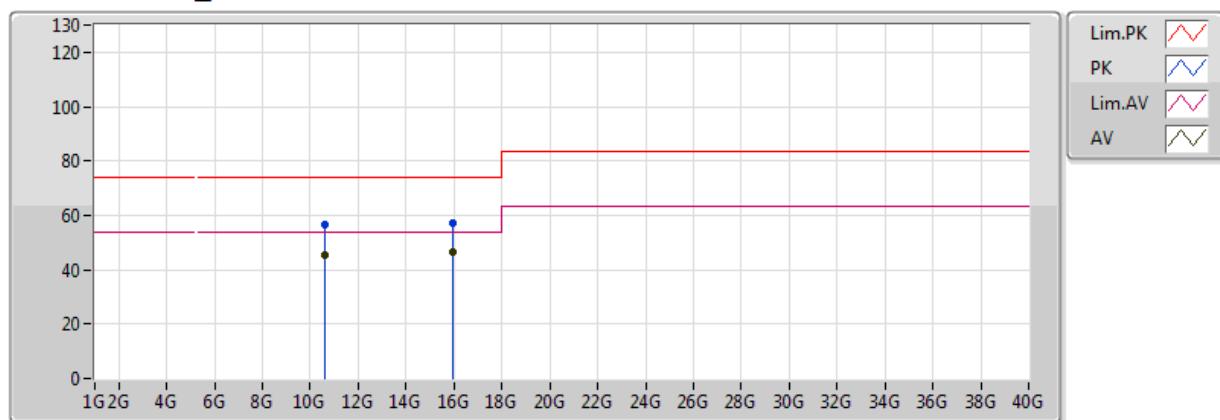
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.3154G	100.26	Inf	-Inf	3.08	3	Vertical	6	1.43	-	97.19	31.75	6.51	35.19
AV	5.3502G	50.94	54.00	-3.06	3.11	3	Vertical	6	1.43	-	47.83	31.78	6.52	35.18
PK	5.3148G	108.60	Inf	-Inf	3.07	3	Vertical	6	1.43	-	105.52	31.75	6.51	35.19
PK	5.3502G	67.36	74.00	-6.64	3.11	3	Vertical	6	1.43	-	64.25	31.78	6.52	35.18

## 802.11ac VHT20\_Nss1,(MCS0)\_3TX

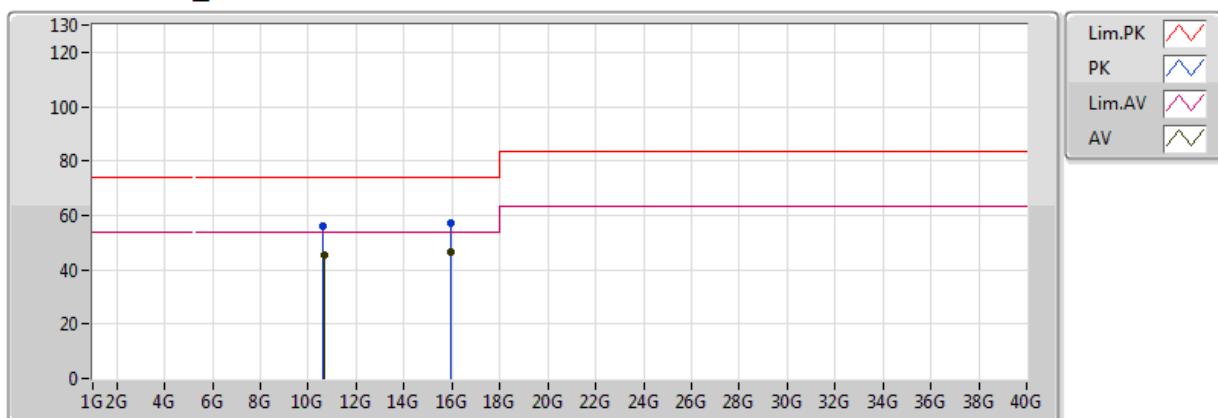
### 5320MHz\_TX



**802.11ac VHT20\_Nss1,(MCS0)\_3TX****5320MHz\_TX**

EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.63802G	45.62	54.00	-8.38	13.51	3	Vertical	360	1.50	-	32.11	39.79	9.34	35.62
AV	15.97236G	46.49	54.00	-7.51	13.05	3	Vertical	0	1.50	-	33.43	37.39	11.58	35.92
PK	10.6271G	56.38	74.00	-17.62	13.48	3	Vertical	360	1.50	-	42.90	39.78	9.33	35.63
PK	15.96216G	57.00	74.00	-17.00	13.09	3	Vertical	0	1.50	-	43.91	37.43	11.57	35.91

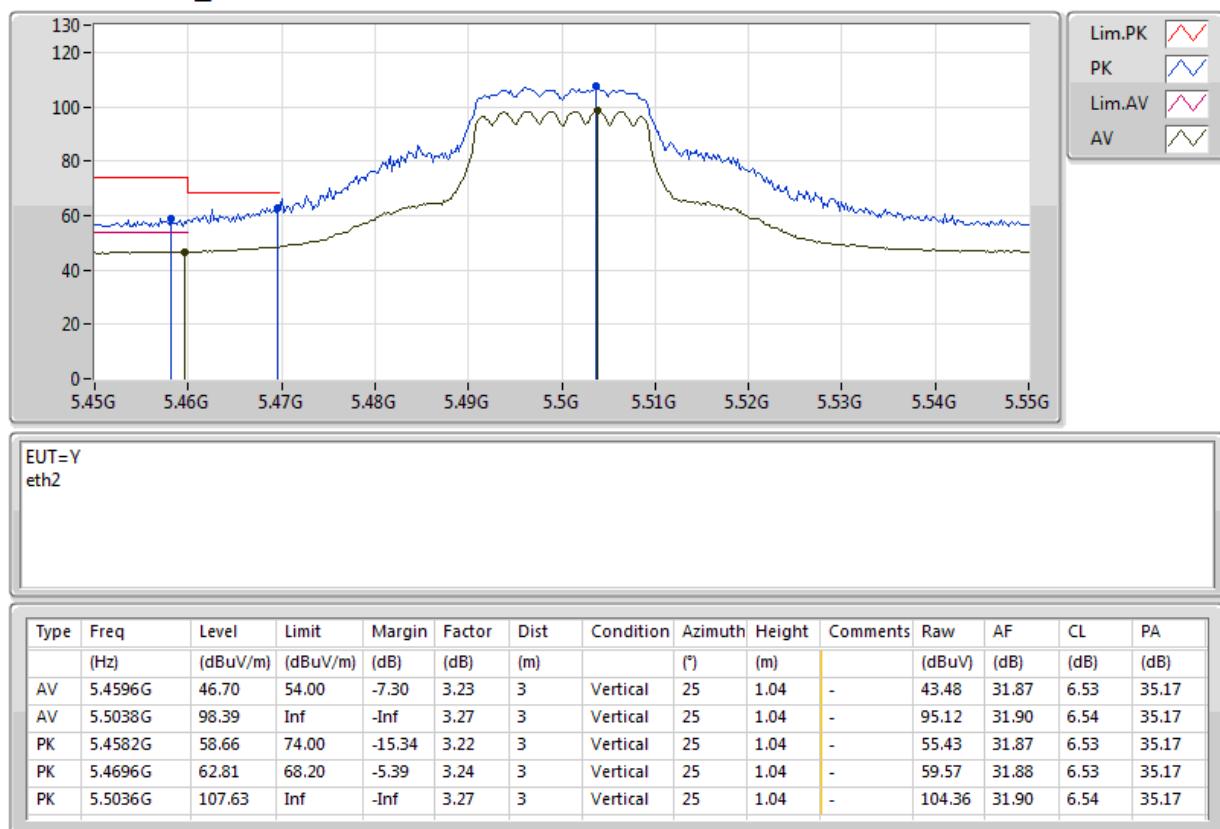
**802.11ac VHT20\_Nss1,(MCS0)\_3TX****5320MHz\_TX**

EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.64438G	45.58	54.00	-8.42	13.53	3	Horizontal	0	1.50	-	32.05	39.80	9.34	35.62
AV	15.96444G	46.49	54.00	-7.51	13.08	3	Horizontal	360	1.50	-	33.41	37.42	11.57	35.91
PK	10.62902G	56.30	74.00	-17.70	13.49	3	Horizontal	0	1.50	-	42.81	39.78	9.34	35.63
PK	15.963G	57.31	74.00	-16.69	13.09	3	Horizontal	360	1.50	-	44.23	37.43	11.57	35.91

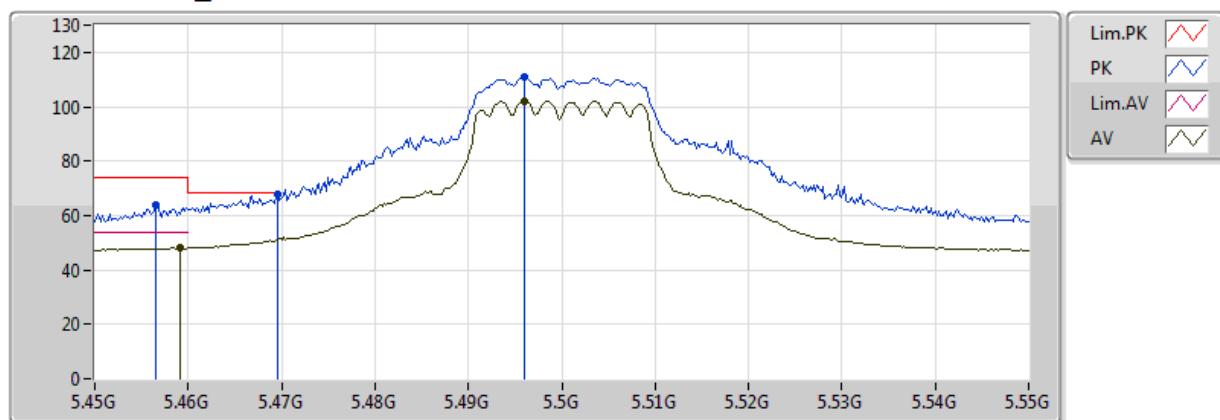
## 802.11ac VHT20\_Nss1,(MCS0)\_3TX

### 5500MHz\_TX



## 802.11ac VHT20\_Nss1,(MCS0)\_3TX

### 5500MHz\_TX

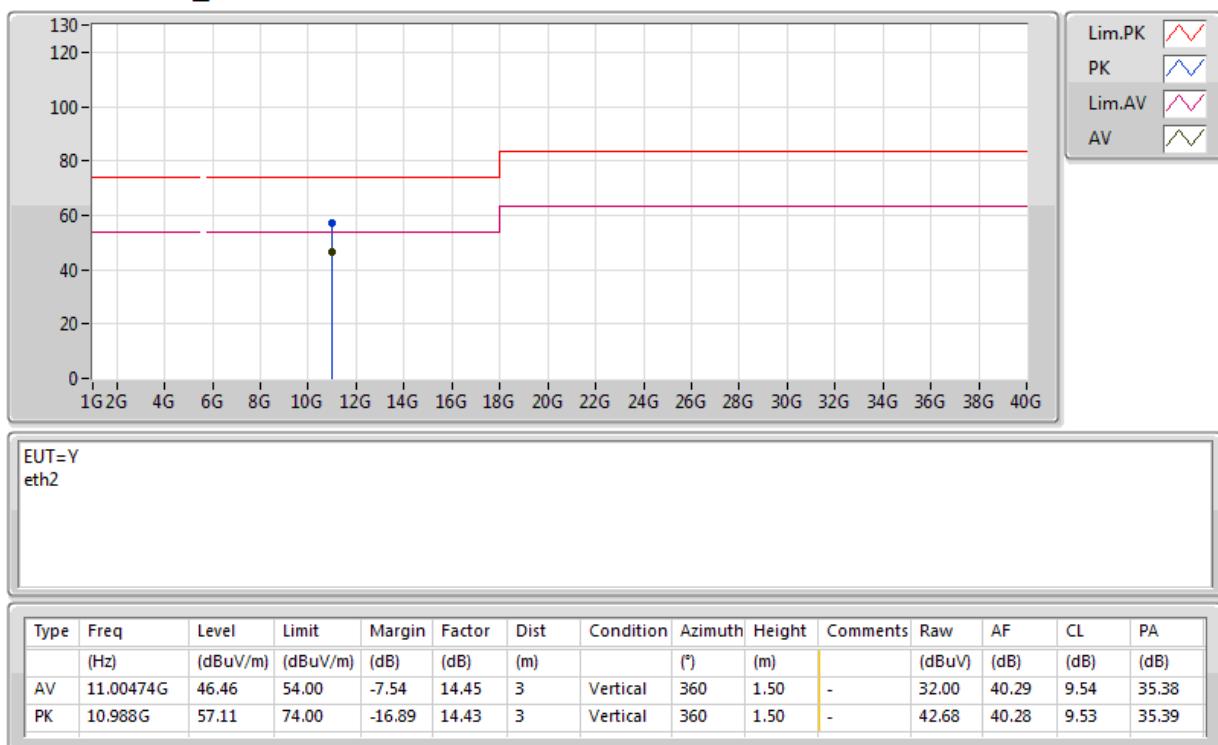


EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4592G	48.08	54.00	-5.92	3.23	3	Horizontal	52	2.29	-	44.85	31.87	6.53	35.17
AV	5.496G	102.12	Inf	-Inf	3.27	3	Horizontal	52	2.29	-	98.85	31.90	6.54	35.17
PK	5.4566G	63.90	74.00	-10.10	3.22	3	Horizontal	52	2.29	-	60.68	31.87	6.53	35.17
PK	5.4696G	67.59	68.20	-0.61	3.24	3	Horizontal	52	2.29	-	64.36	31.88	6.53	35.17
PK	5.496G	110.86	Inf	-Inf	3.27	3	Horizontal	52	2.29	-	107.59	31.90	6.54	35.17

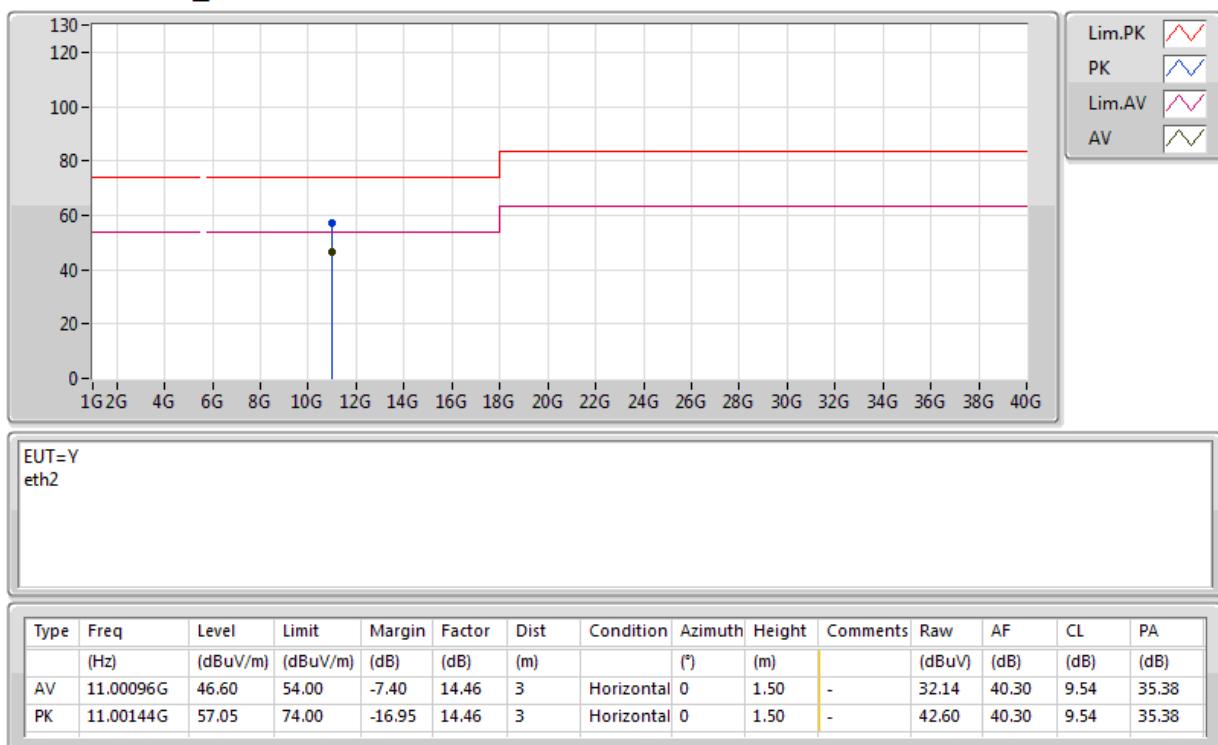
## **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

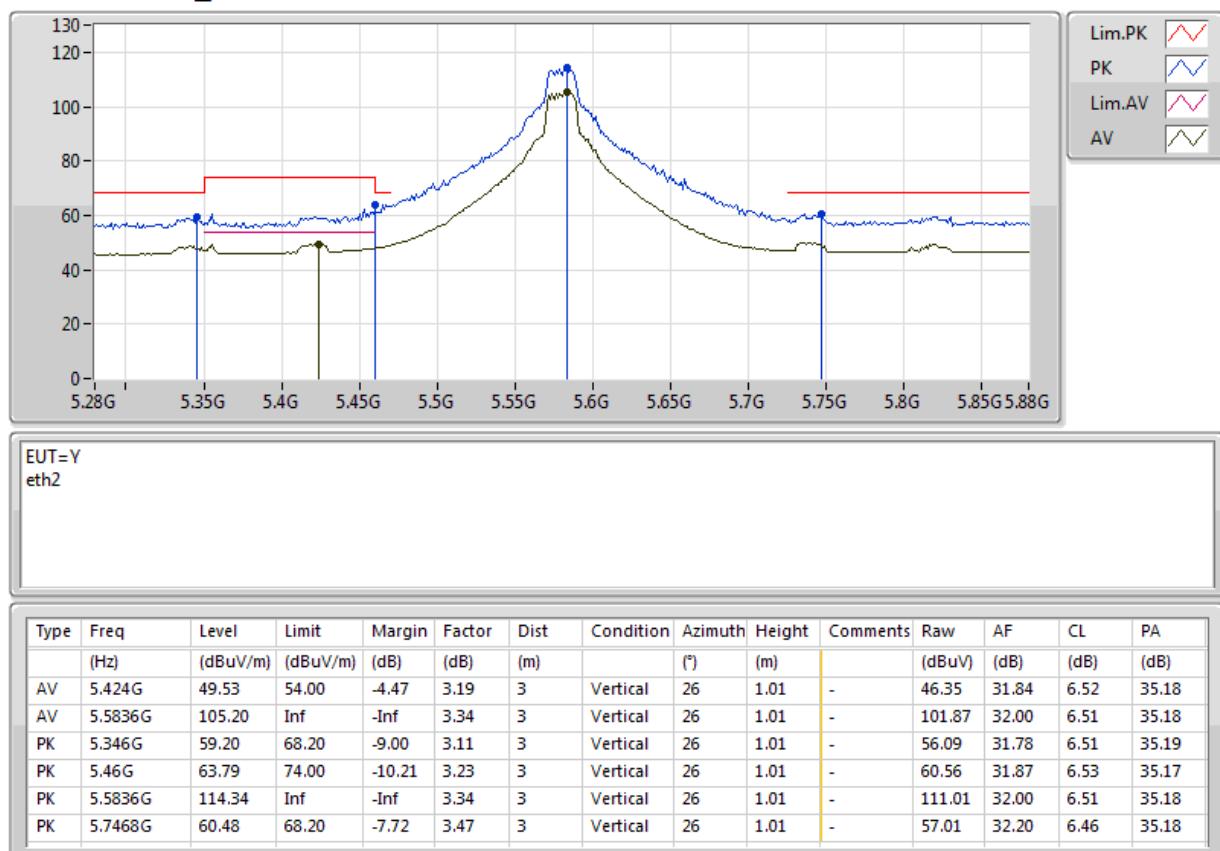
### **5500MHz\_TX**



## **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

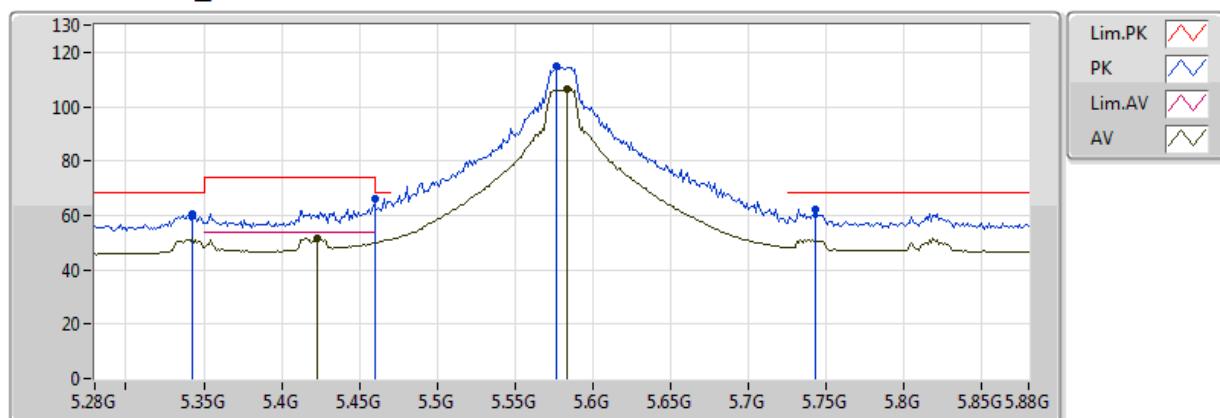
### **5500MHz\_TX**



**802.11ac VHT20\_Nss1,(MCS0)\_3TX****5580MHz\_TX**

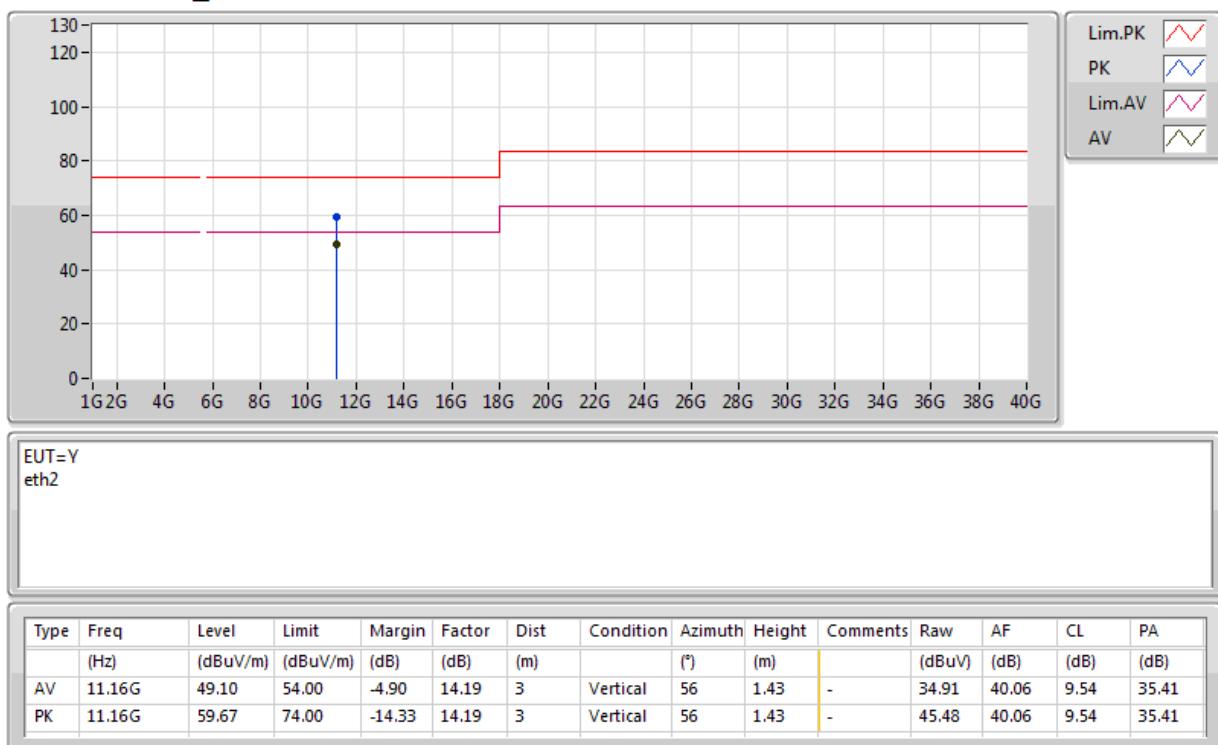
## **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

### **5580MHz\_TX**



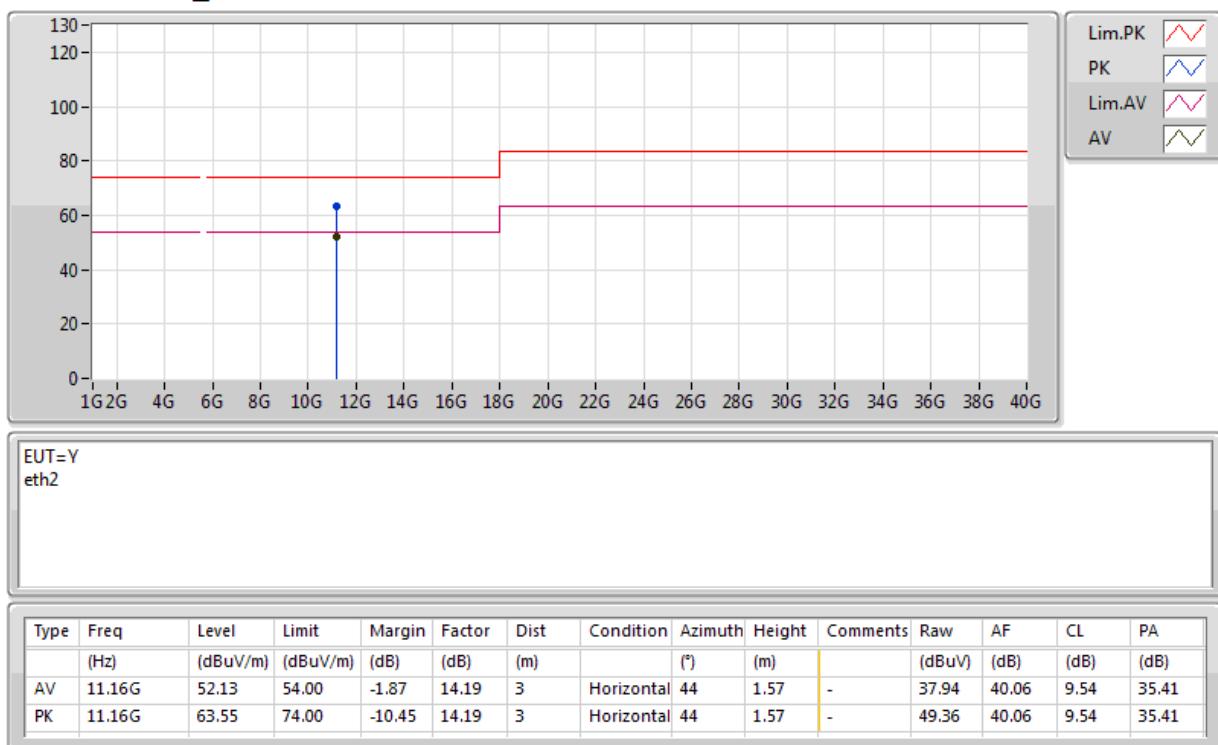
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4228G	51.38	54.00	-2.62	3.19	3	Horizontal	343	1.91	-	48.20	31.84	6.52	35.18
AV	5.5836G	106.70	Inf	-Inf	3.34	3	Horizontal	343	1.91	-	103.37	32.00	6.51	35.18
PK	5.3424G	60.69	68.20	-7.51	3.10	3	Horizontal	343	1.91	-	57.58	31.77	6.51	35.19
PK	5.46G	66.18	74.00	-7.82	3.23	3	Horizontal	343	1.91	-	62.95	31.87	6.53	35.17
PK	5.5764G	115.10	Inf	-Inf	3.33	3	Horizontal	343	1.91	-	111.77	31.99	6.52	35.18
PK	5.7432G	62.01	68.20	-6.19	3.47	3	Horizontal	343	1.91	-	58.54	32.19	6.46	35.18

**802.11ac VHT20\_Nss1,(MCS0)\_3TX****5580MHz\_TX**

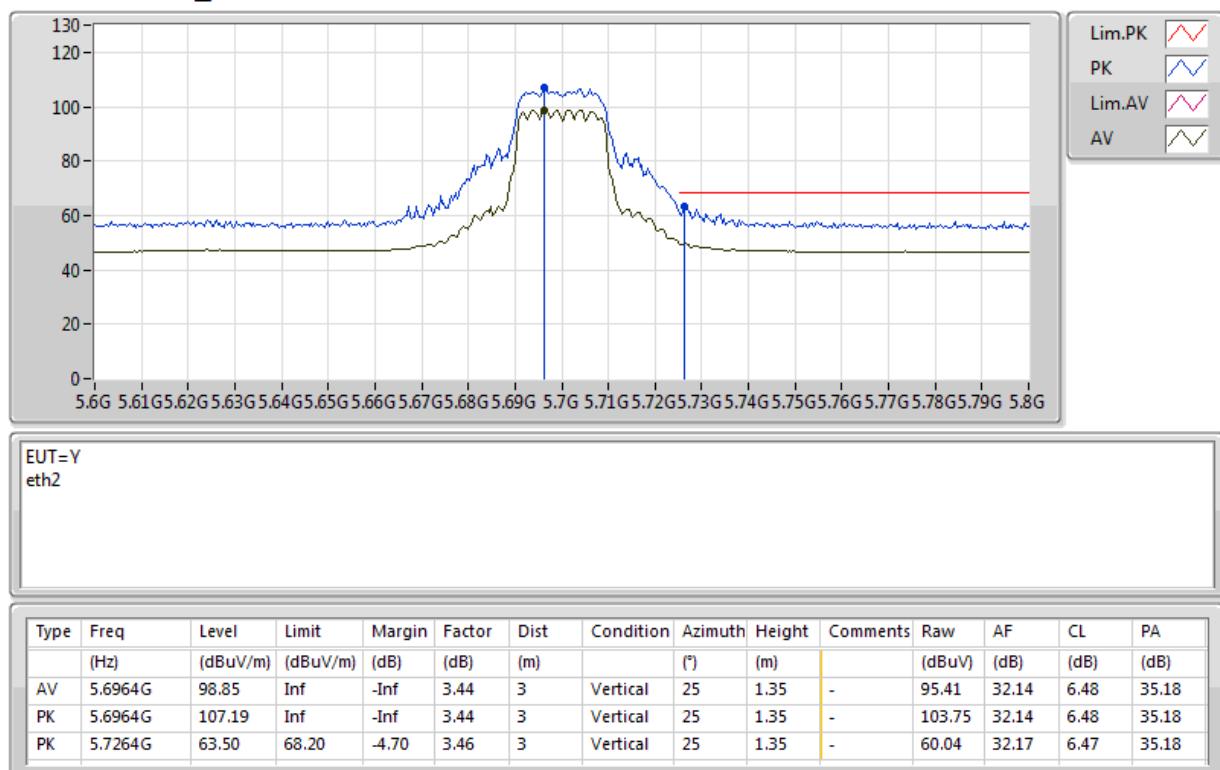
## 802.11ac VHT20\_Nss1,(MCS0)\_3TX

### 5580MHz\_TX



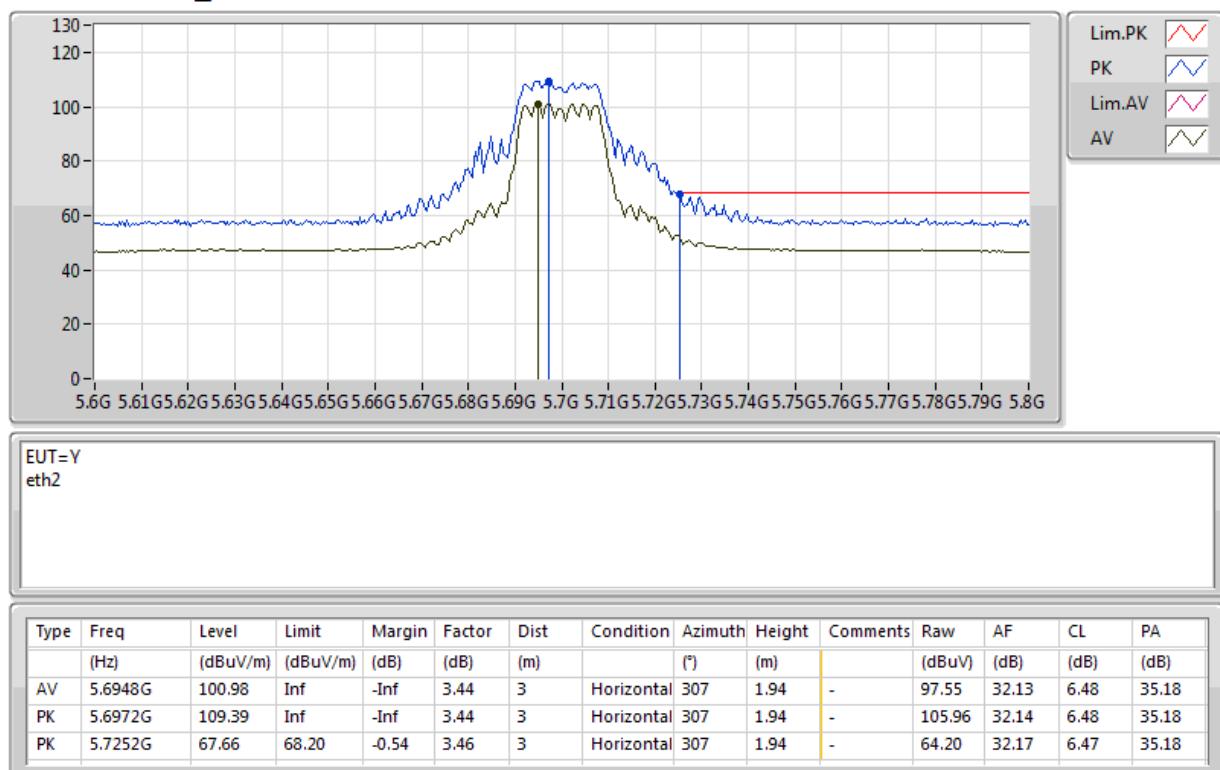
## **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

### **5700MHz\_TX**



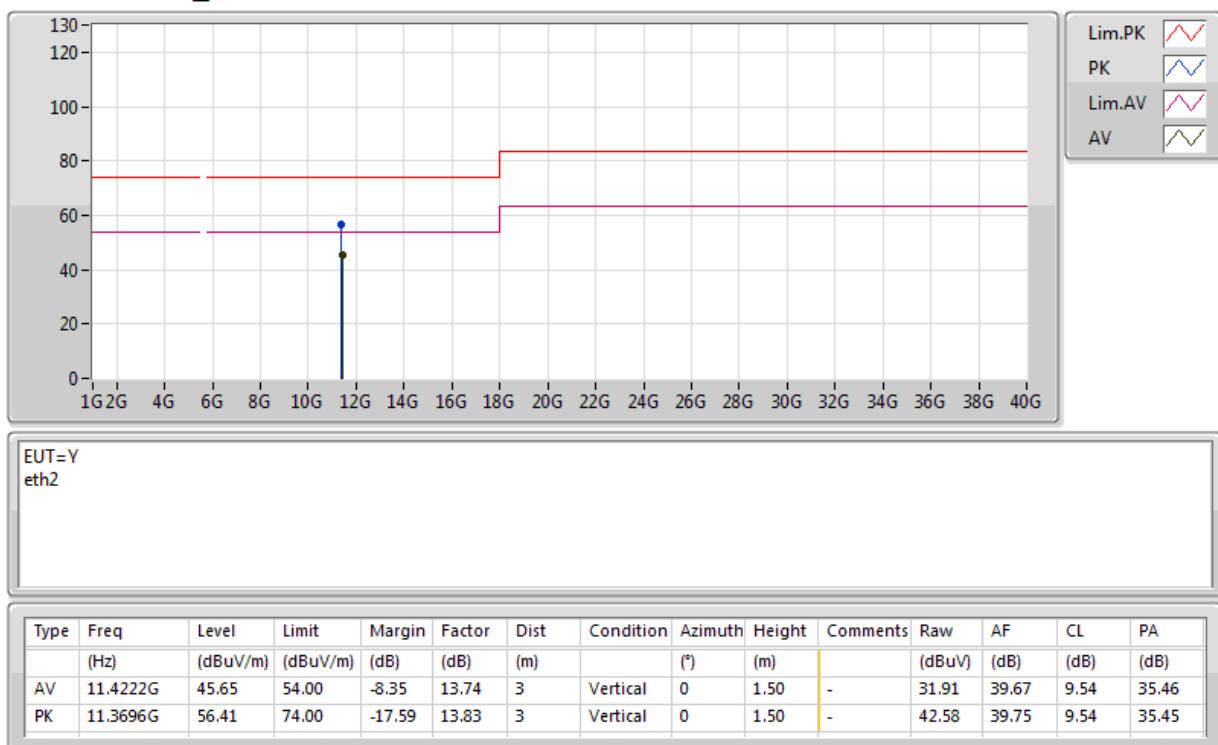
### **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

#### **5700MHz\_TX**



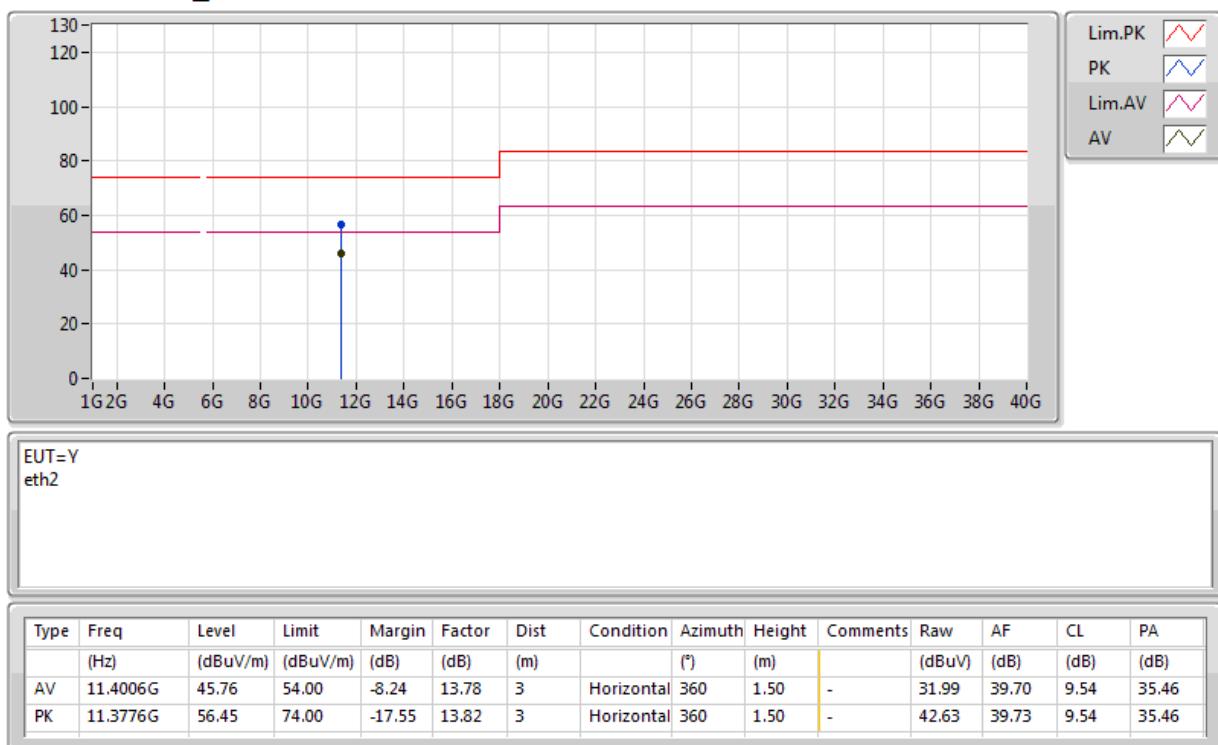
## **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

### **5700MHz\_TX**



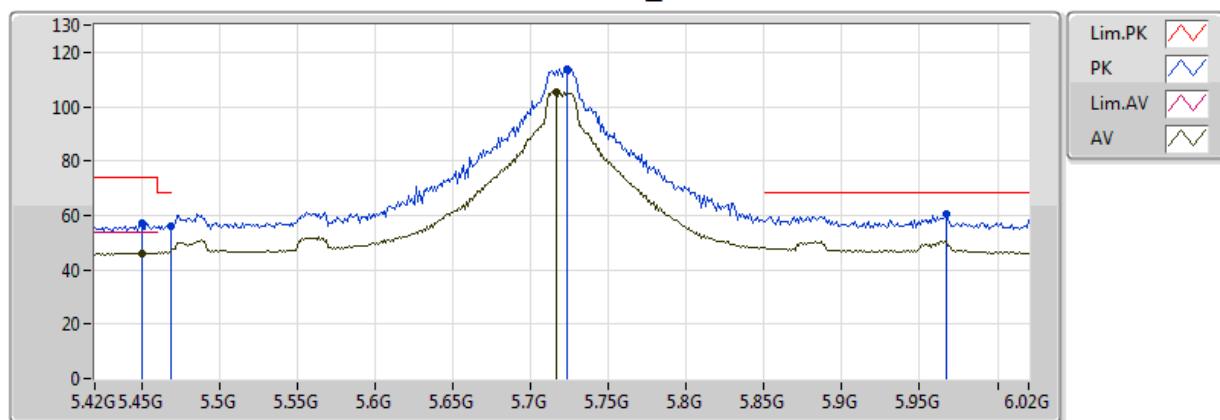
## **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

### **5700MHz\_TX**



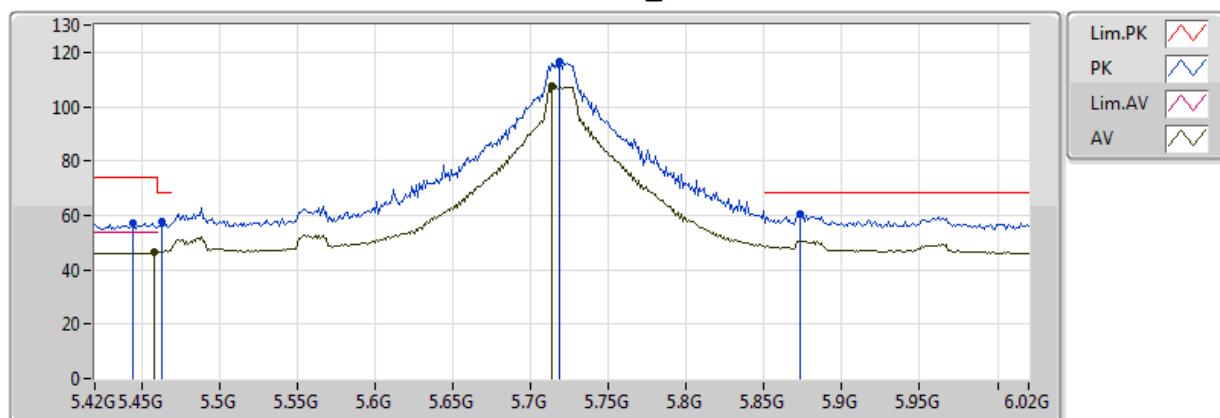
### **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

### **5720MHz Straddle 5.47-5.725GHz\_TX**



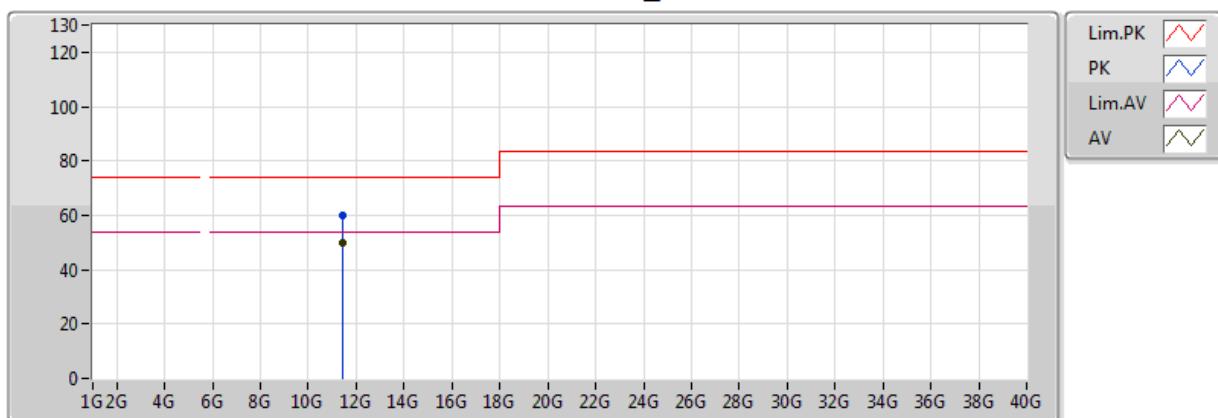
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.45G	46.08	54.00	-7.92	3.22	3	Vertical	26	1.45	-	42.87	31.86	6.53	35.17
AV	5.7164G	105.53	Inf	-Inf	3.45	3	Vertical	26	1.45	-	102.08	32.16	6.47	35.18
PK	5.45G	57.30	74.00	-16.70	3.22	3	Vertical	26	1.45	-	54.08	31.86	6.53	35.17
PK	5.4692G	55.97	68.20	-12.23	3.24	3	Vertical	26	1.45	-	52.73	31.88	6.53	35.17
PK	5.7236G	114.00	Inf	-Inf	3.46	3	Vertical	26	1.45	-	110.55	32.17	6.47	35.18
PK	5.9672G	60.54	68.20	-7.66	3.65	3	Vertical	26	1.45	-	56.89	32.46	6.39	35.20

**802.11ac VHT20\_Nss1,(MCS0)\_3TX**
**5720MHz Straddle 5.47-5.725GHz\_TX**


EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA
AV	5.4584G	46.46	54.00	-7.54	3.22	3	Horizontal	44	1.27	-	43.24	31.87	6.53	35.17
AV	5.714G	107.50	Inf	-Inf	3.45	3	Horizontal	44	1.27	-	104.05	32.16	6.47	35.18
PK	5.444G	57.30	74.00	-16.70	3.21	3	Horizontal	44	1.27	-	54.10	31.86	6.53	35.18
PK	5.4632G	57.70	68.20	-10.50	3.23	3	Horizontal	44	1.27	-	54.47	31.87	6.53	35.17
PK	5.7188G	116.70	Inf	-Inf	3.45	3	Horizontal	44	1.27	-	113.25	32.16	6.47	35.18
PK	5.8736G	60.40	68.20	-7.80	3.58	3	Horizontal	44	1.27	-	56.82	32.35	6.42	35.19

**802.11ac VHT20\_Nss1,(MCS0)\_3TX****5720MHz Straddle 5.47-5.725GHz\_TX**

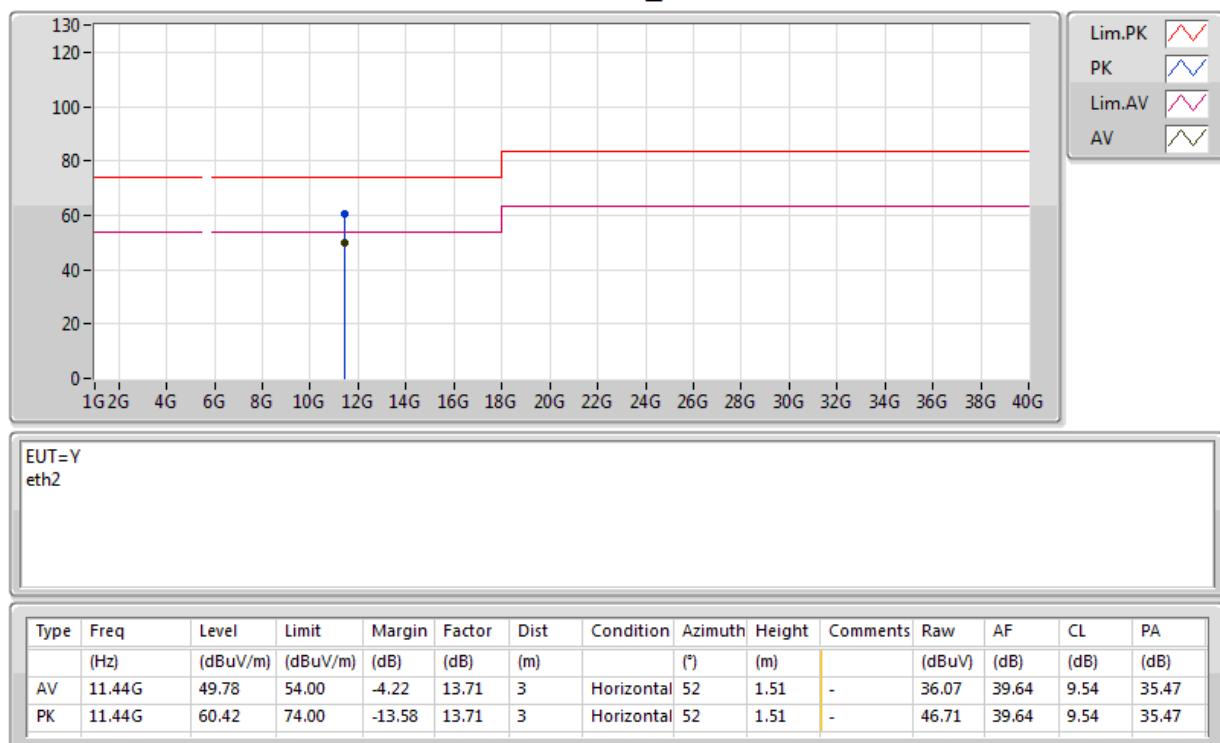
Lim.PK   
PK   
Lim.AV   
AV

EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA
AV	11.44G	50.00	54.00	-4.00	13.71	3	Vertical	62	1.86	-	36.29	39.64	9.54	35.47
PK	11.44G	60.18	74.00	-13.82	13.71	3	Vertical	62	1.86	-	46.47	39.64	9.54	35.47

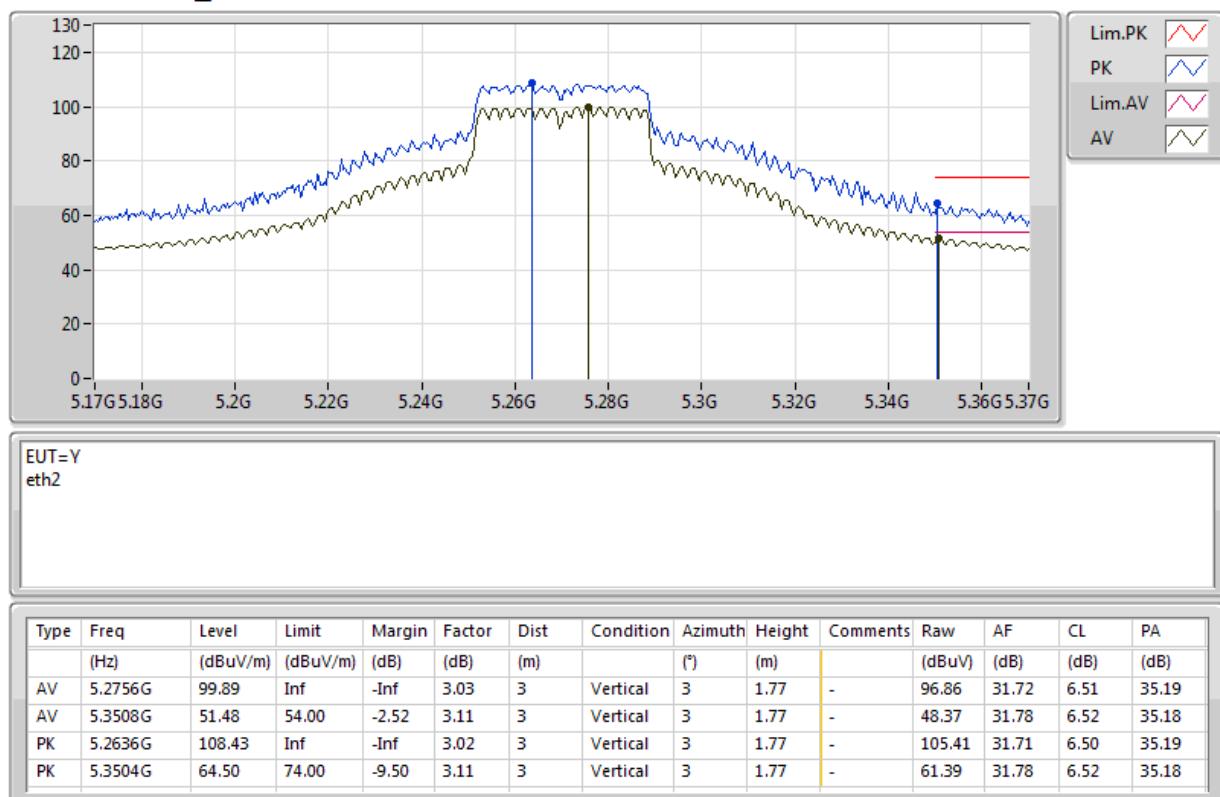
### **802.11ac VHT20\_Nss1,(MCS0)\_3TX**

### **5720MHz Straddle 5.47-5.725GHz\_TX**



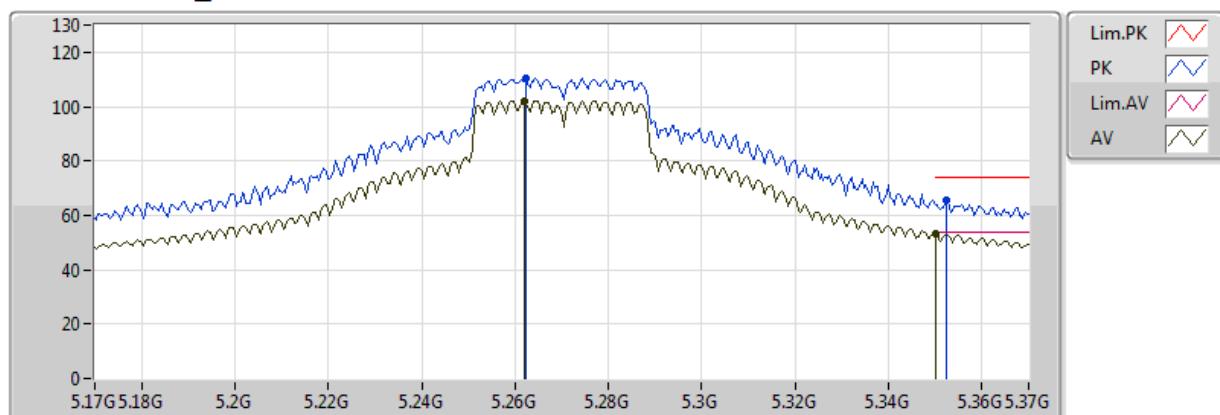
## 802.11ac VHT40\_Nss1,(MCS0)\_3TX

### 5270MHz\_TX



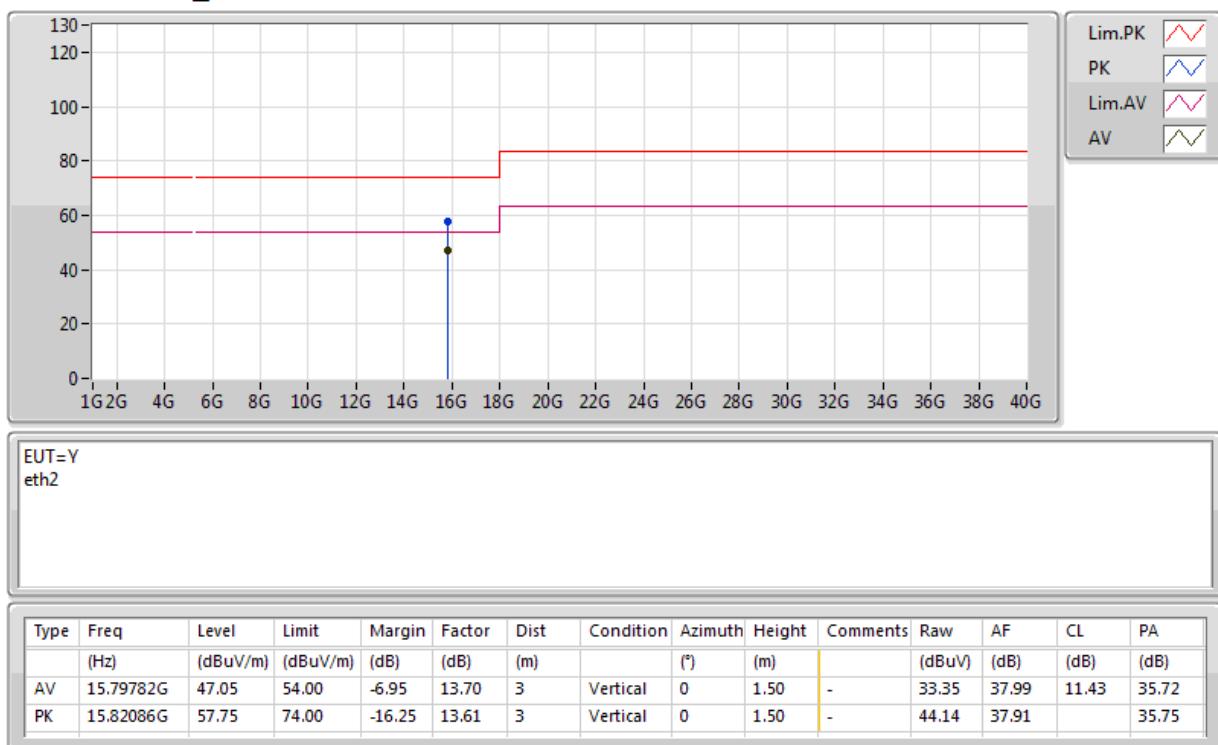
## 802.11ac VHT40\_Nss1,(MCS0)\_3TX

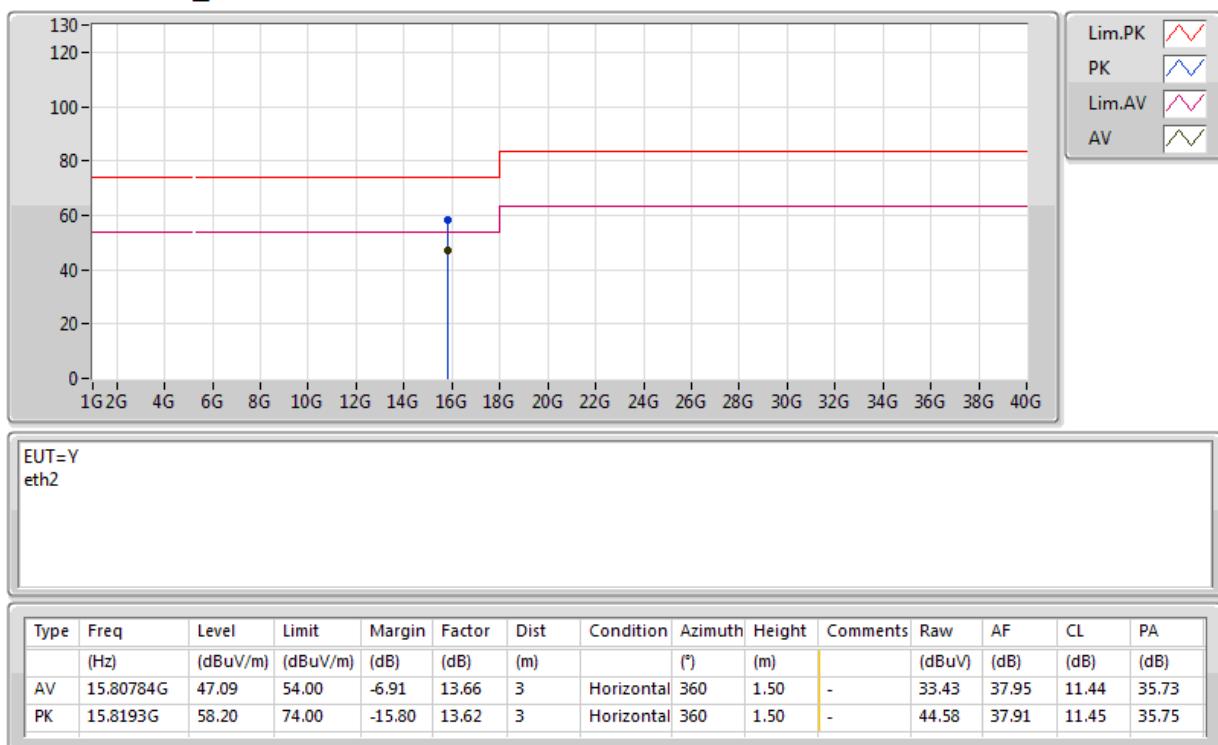
### 5270MHz\_TX



EUT=Y  
eth2

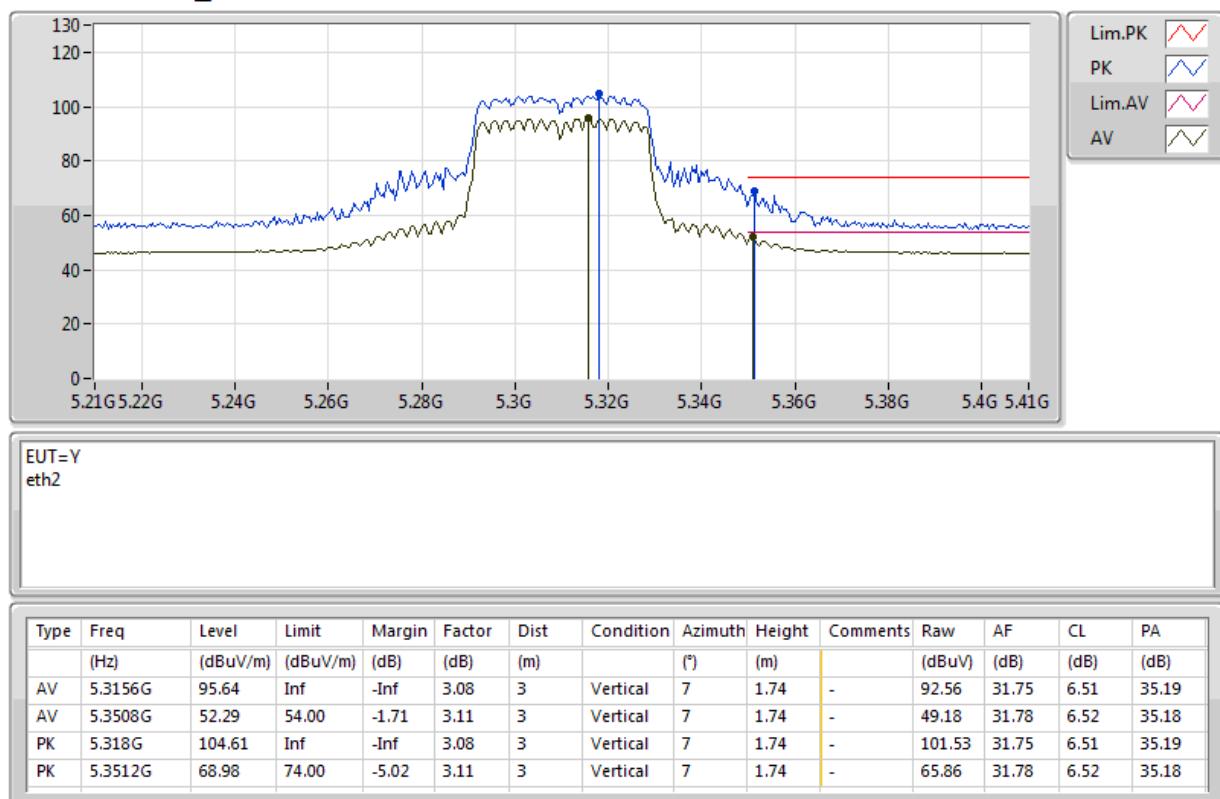
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.262G	102.08	Inf	-Inf	3.02	3	Horizontal	343	2.31	-	99.06	31.71	6.50	35.19
AV	5.350005G	53.51	54.00	-0.49	3.11	3	Horizontal	343	2.31	-	50.40	31.78	6.52	35.18
PK	5.2624G	110.23	Inf	-Inf	3.02	3	Horizontal	343	2.31	-	107.21	31.71	6.50	35.19
PK	5.3524G	65.55	74.00	-8.45	3.11	3	Horizontal	343	2.31	-	62.44	31.78	6.52	35.18

**802.11ac VHT40\_Nss1,(MCS0)\_3TX****5270MHz\_TX**

**802.11ac VHT40\_Nss1,(MCS0)\_3TX****5270MHz\_TX**

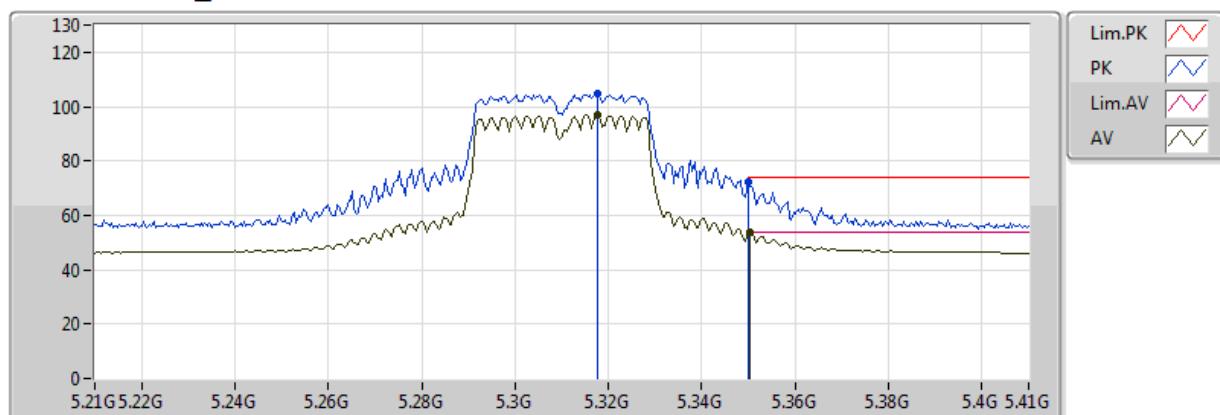
## **802.11ac VHT40\_Nss1,(MCS0)\_3TX**

### **5310MHz\_TX**



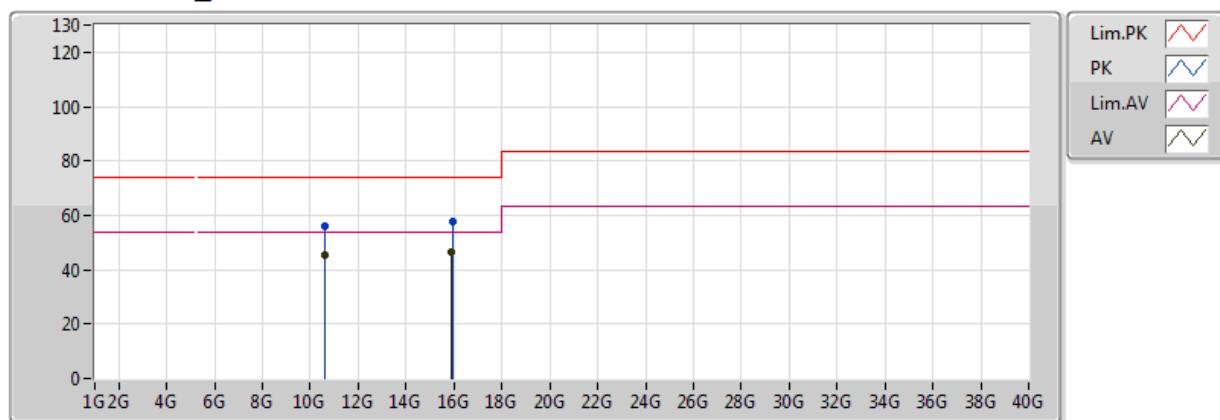
## 802.11ac VHT40\_Nss1,(MCS0)\_3TX

### 5310MHz\_TX



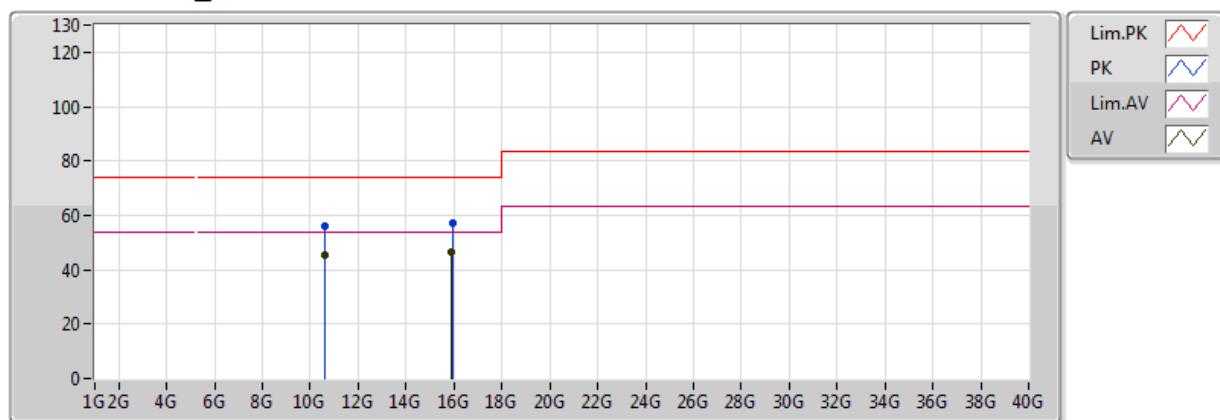
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.3176G	96.72	Inf	-Inf	3.08	3	Horizontal	339	1.72	-	93.65	31.75	6.51	35.19
AV	5.3504G	53.80	54.00	-0.20	3.11	3	Horizontal	339	1.72	-	50.69	31.78	6.52	35.18
PK	5.3176G	104.57	Inf	-Inf	3.08	3	Horizontal	339	1.72	-	101.49	31.75	6.51	35.19
PK	5.35005G	72.17	74.00	-1.83	3.11	3	Horizontal	339	1.72	-	69.06	31.78	6.52	35.18

**802.11ac VHT40\_Nss1,(MCS0)\_3TX****5310MHz\_TX**

EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.61418G	45.36	54.00	-8.64	13.45	3	Vertical	0	1.50	-	31.91	39.76	9.33	35.64
AV	15.91788G	46.59	54.00	-7.41	13.25	3	Vertical	360	1.50	-	33.34	37.58	11.53	35.86
PK	10.61448G	56.04	74.00	-17.96	13.45	3	Vertical	0	1.50	-	42.59	39.76	9.33	35.64
PK	15.9237G	57.50	74.00	-16.50	13.23	3	Vertical	360	1.50	-	44.26	37.56	11.54	35.86

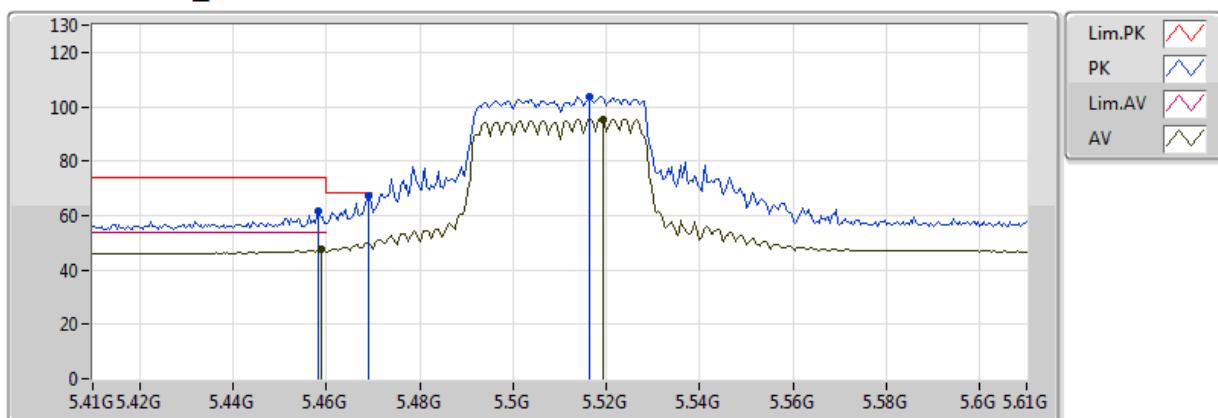
**802.11ac VHT40\_Nss1,(MCS0)\_3TX****5310MHz\_TX**

EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.61994G	45.44	54.00	-8.56	13.46	3	Horizontal	360	1.50	-	31.98	39.77	9.33	35.63
AV	15.91596G	46.52	54.00	-7.48	13.26	3	Horizontal	0	1.50	-	33.26	37.59	11.53	35.86
PK	10.6113G	56.02	74.00	-17.98	13.44	3	Horizontal	360	1.50	-	42.58	39.76	9.33	35.64
PK	15.9243G	57.32	74.00	-16.68	13.23	3	Horizontal	0	1.50	-	44.09	37.56	11.54	35.86

## **802.11ac VHT40\_Nss1,(MCS0)\_3TX**

### **5510MHz\_TX**

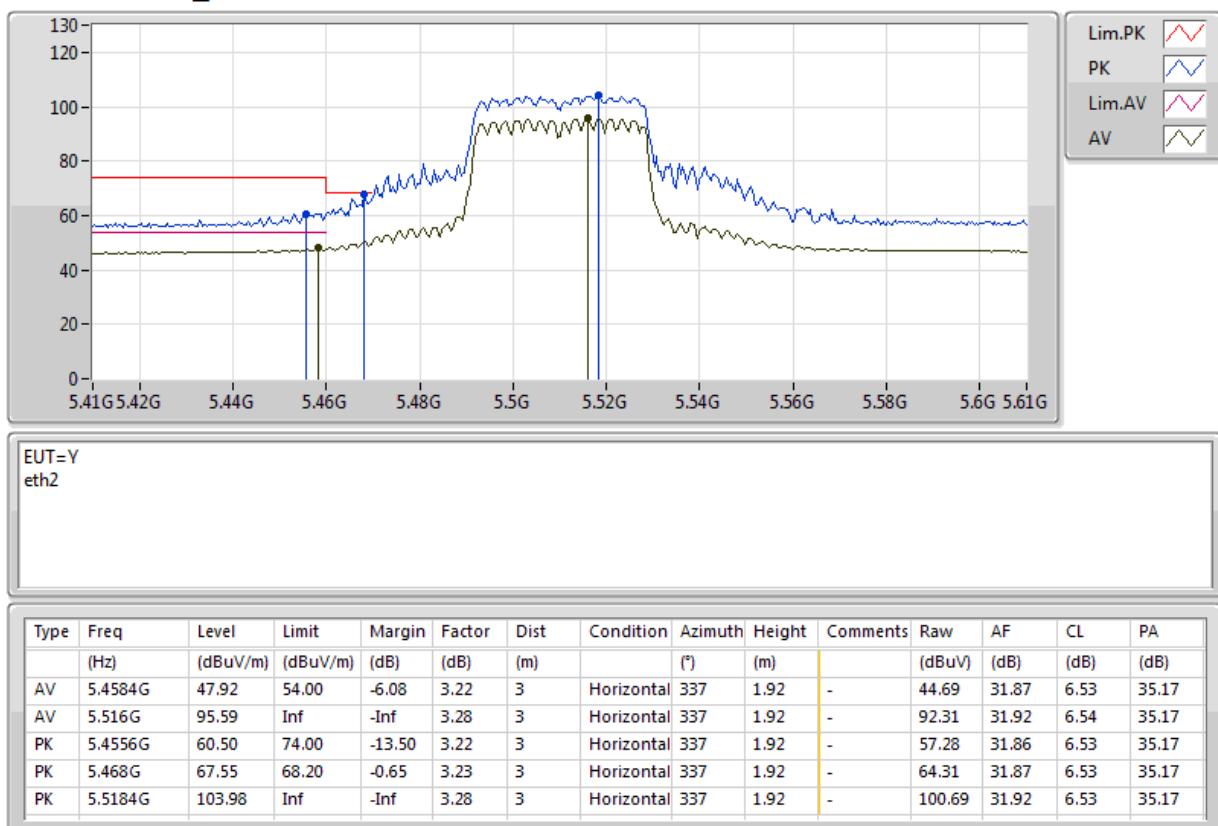


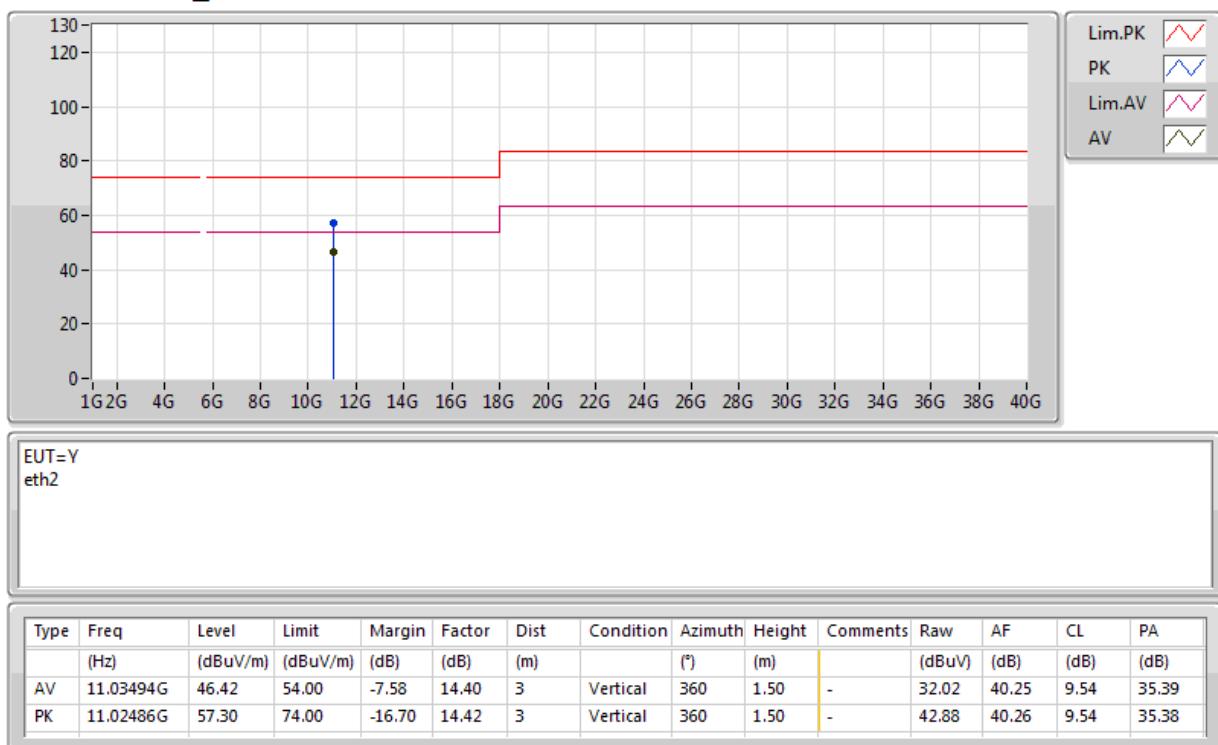
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4588G	47.37	54.00	-6.63	3.22	3	Vertical	22	1.00	-	44.14	31.87	6.53	35.17
AV	5.5192G	95.50	Inf	-Inf	3.29	3	Vertical	22	1.00	-	92.21	31.92	6.53	35.17
PK	5.4584G	61.51	74.00	-12.49	3.22	3	Vertical	22	1.00	-	58.28	31.87	6.53	35.17
PK	5.4692G	67.39	68.20	-0.81	3.24	3	Vertical	22	1.00	-	64.15	31.88	6.53	35.17
PK	5.5164G	103.59	Inf	-Inf	3.28	3	Vertical	22	1.00	-	100.30	31.92	6.54	35.17

## 802.11ac VHT40\_Nss1,(MCS0)\_3TX

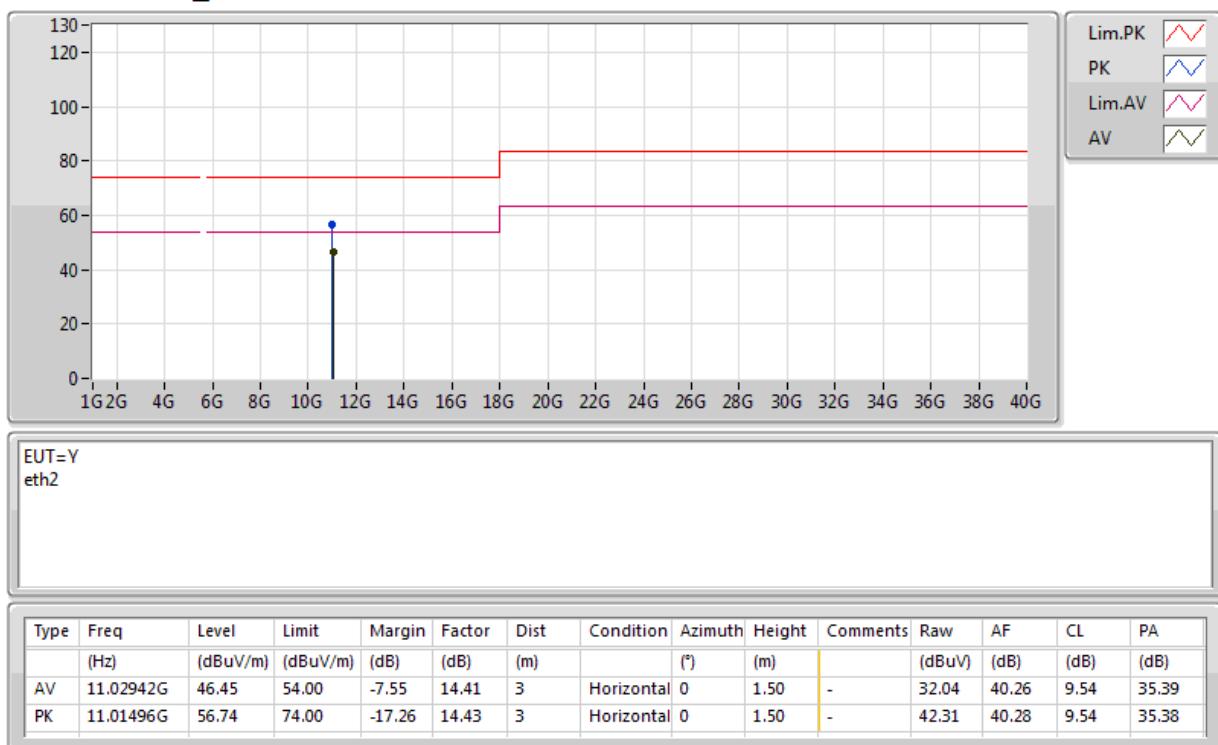
### 5510MHz\_TX



**802.11ac VHT40\_Nss1,(MCS0)\_3TX****5510MHz\_TX**

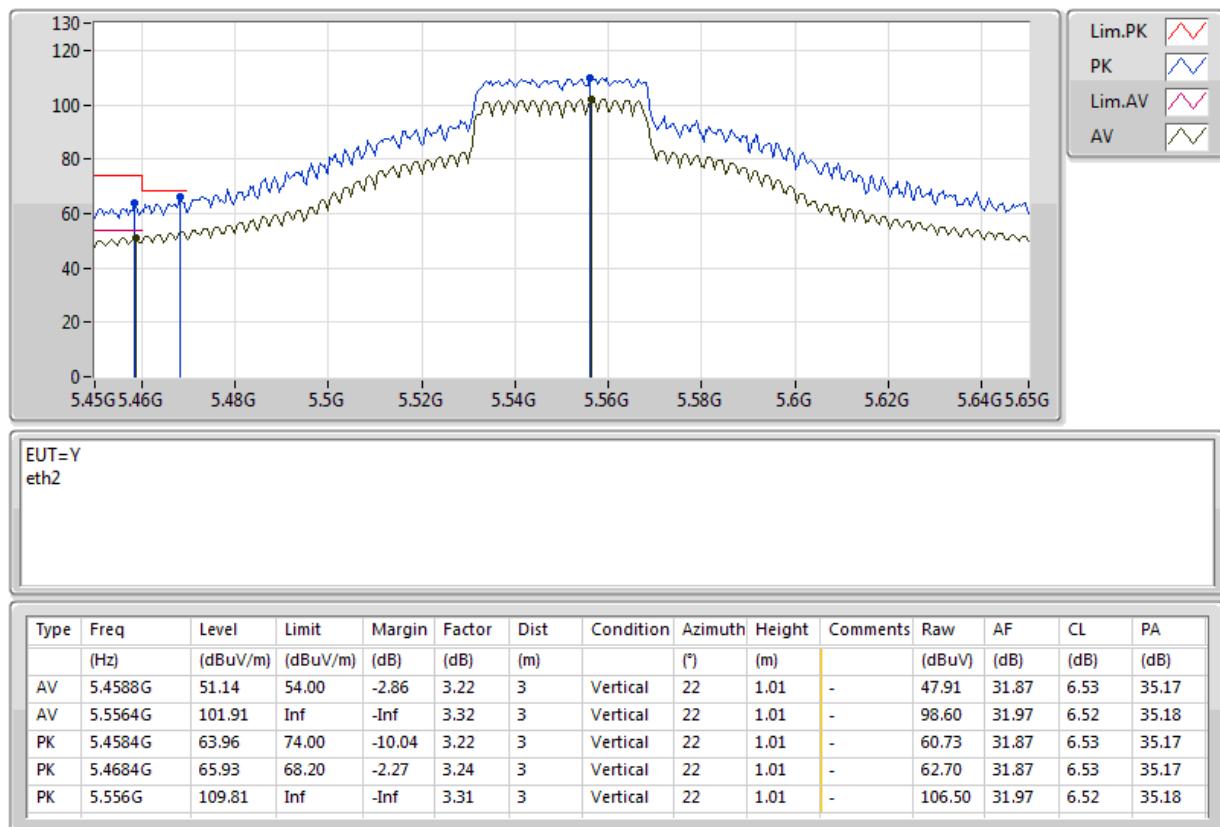
## 802.11ac VHT40\_Nss1,(MCS0)\_3TX

### 5510MHz\_TX



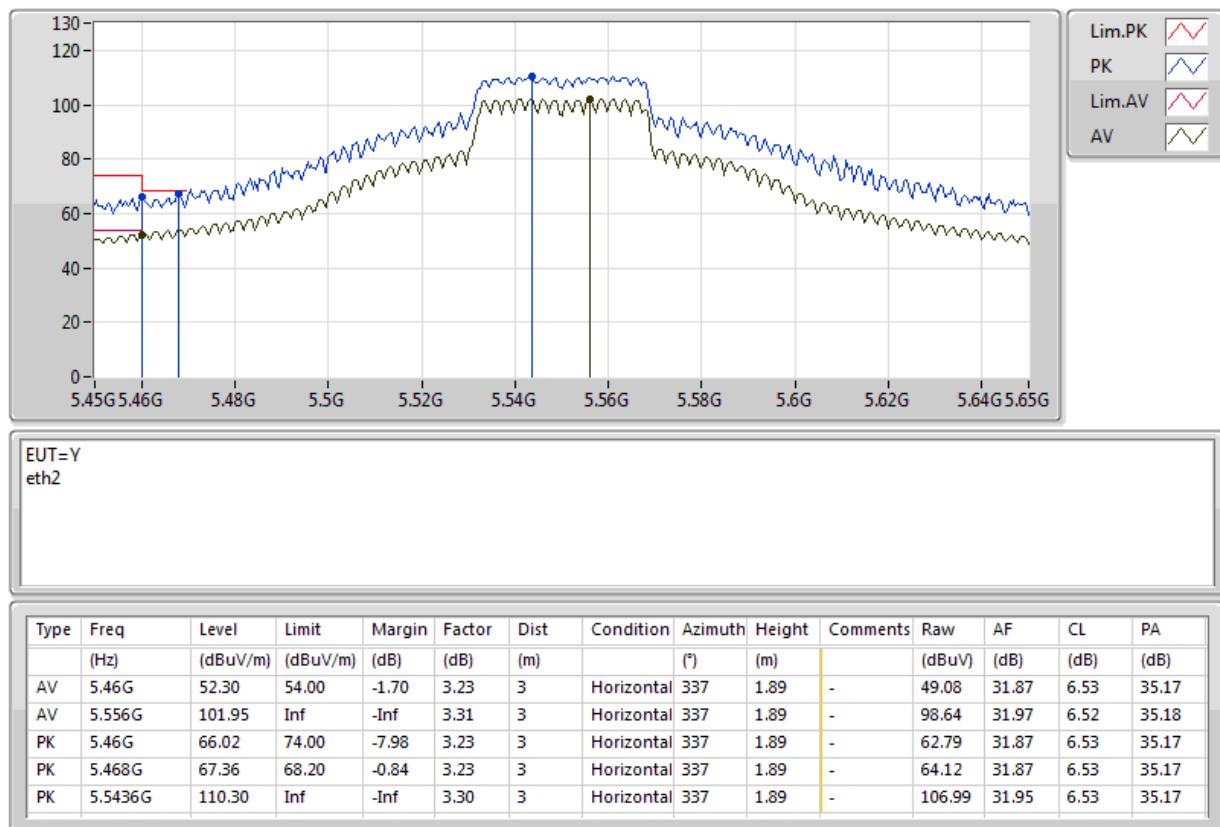
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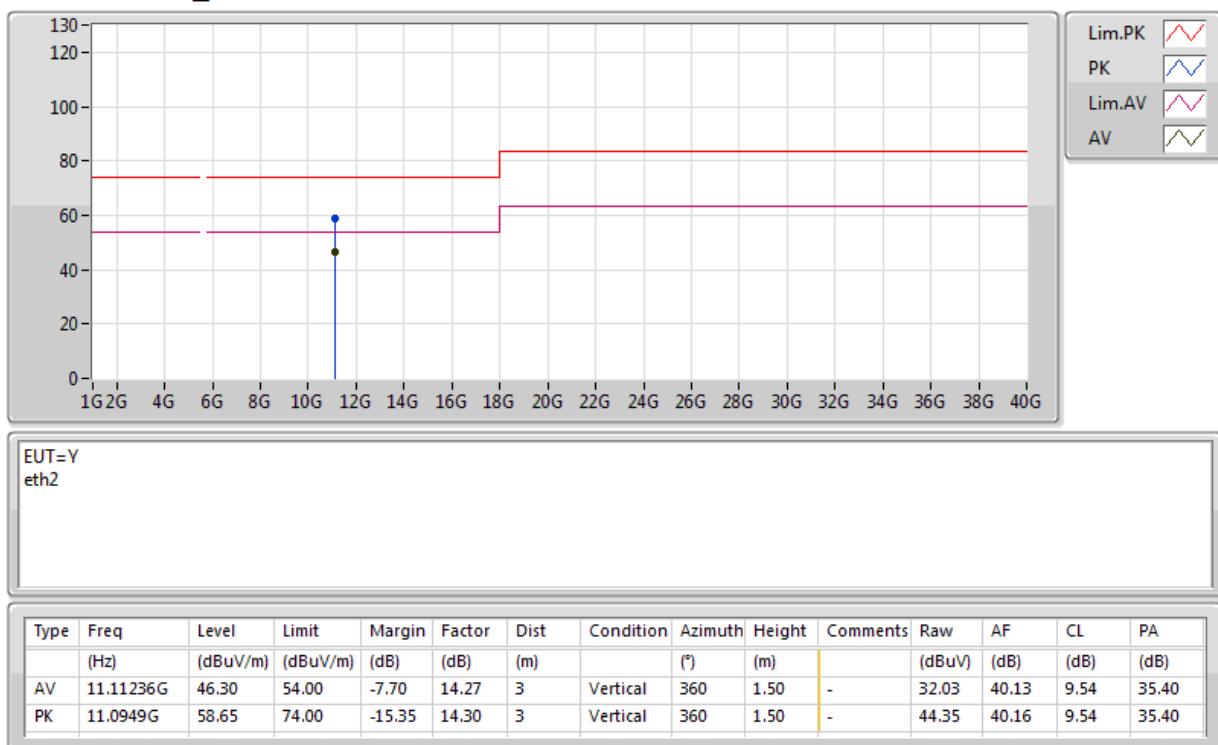
### 5550MHz\_TX



## 802.11ac VHT40\_Nss1,(MCS0)\_3TX

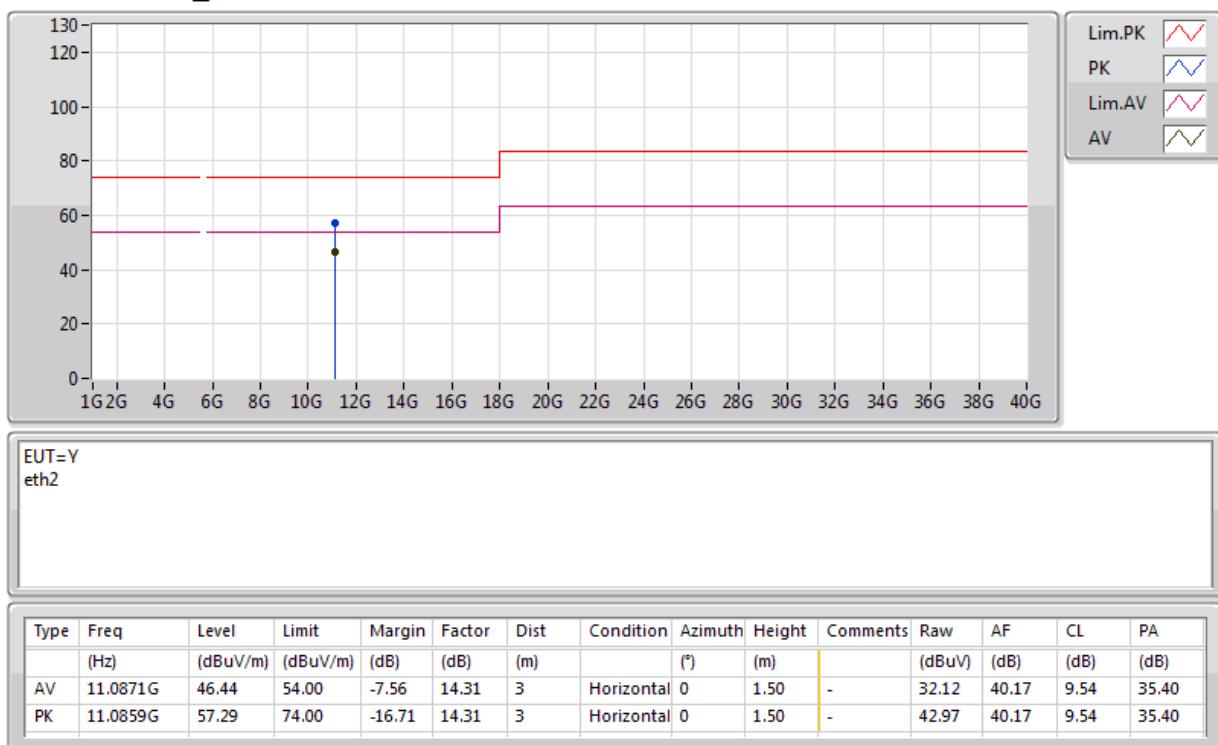
### 5550MHz\_TX



**802.11ac VHT40\_Nss1,(MCS0)\_3TX****5550MHz\_TX**

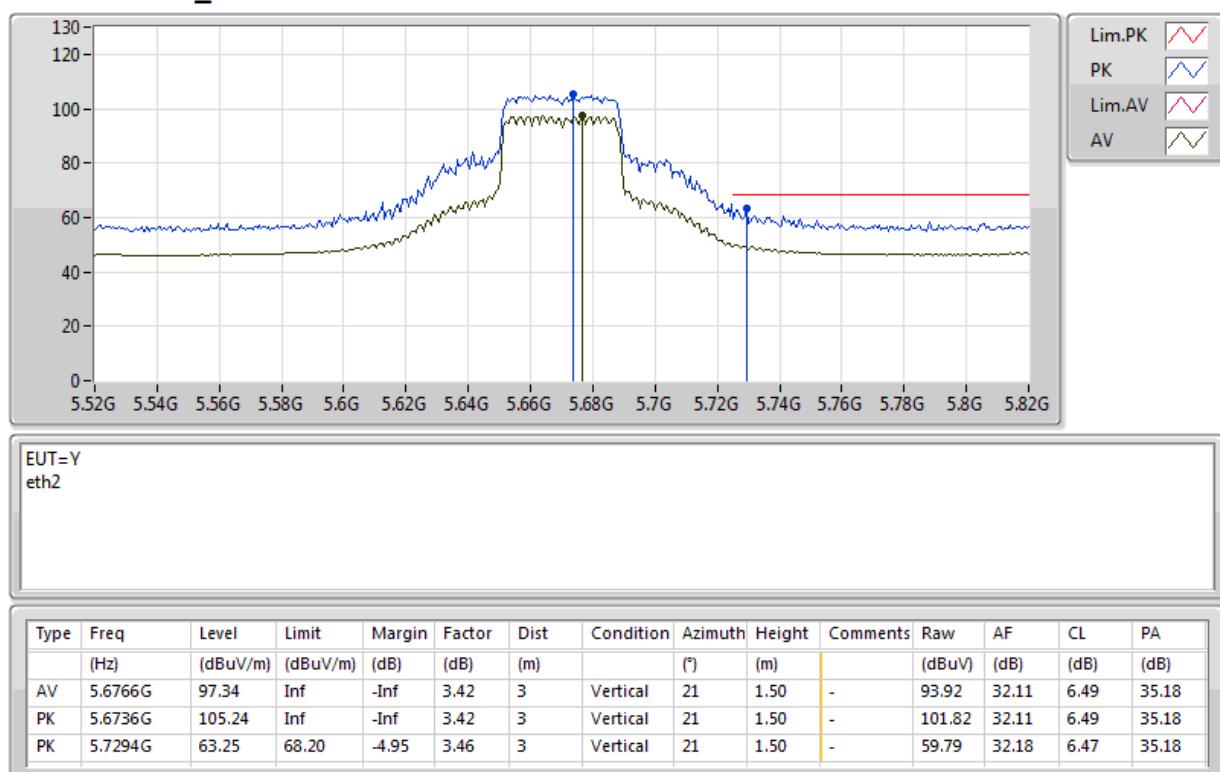
## 802.11ac VHT40\_Nss1,(MCS0)\_3TX

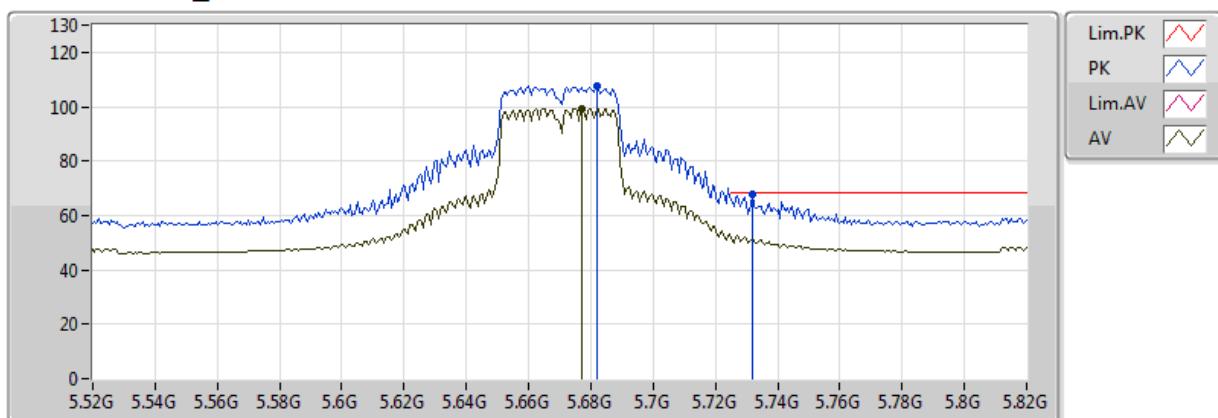
### 5550MHz\_TX



## 802.11ac VHT40\_Nss1,(MCS0)\_3TX

### 5670MHz\_TX



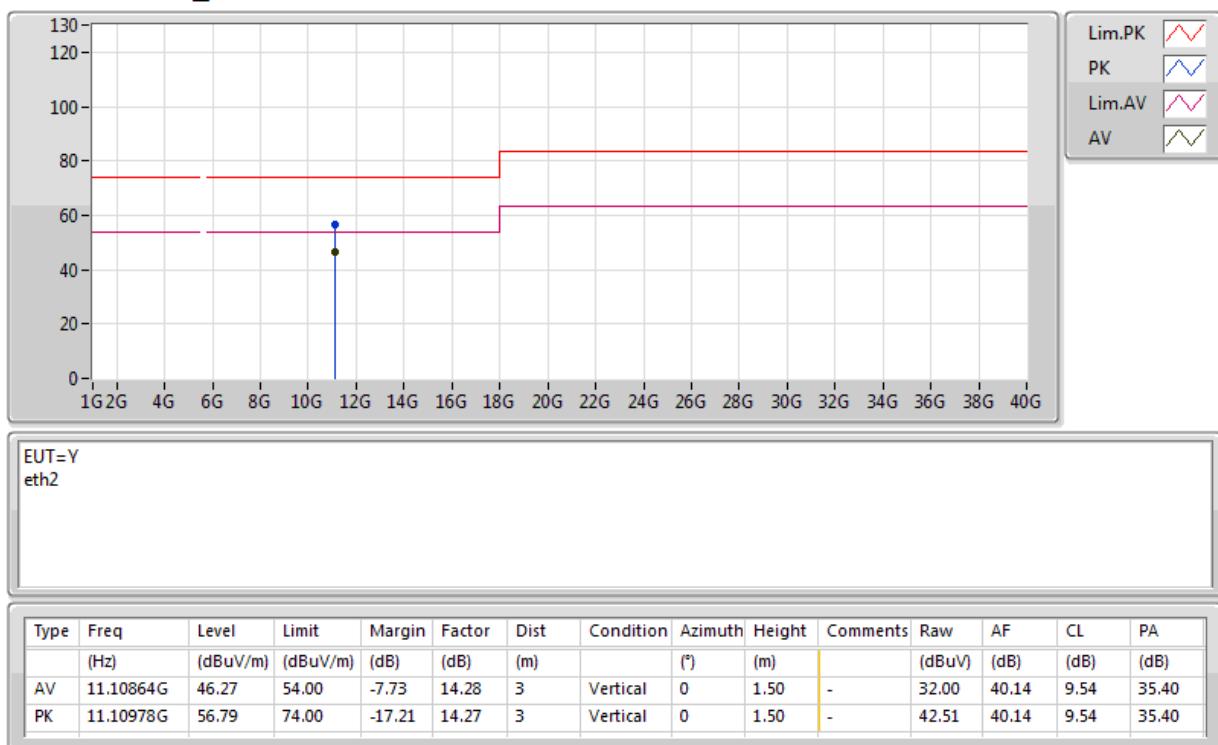
**802.11ac VHT40\_Nss1,(MCS0)\_3TX****5670MHz\_TX**

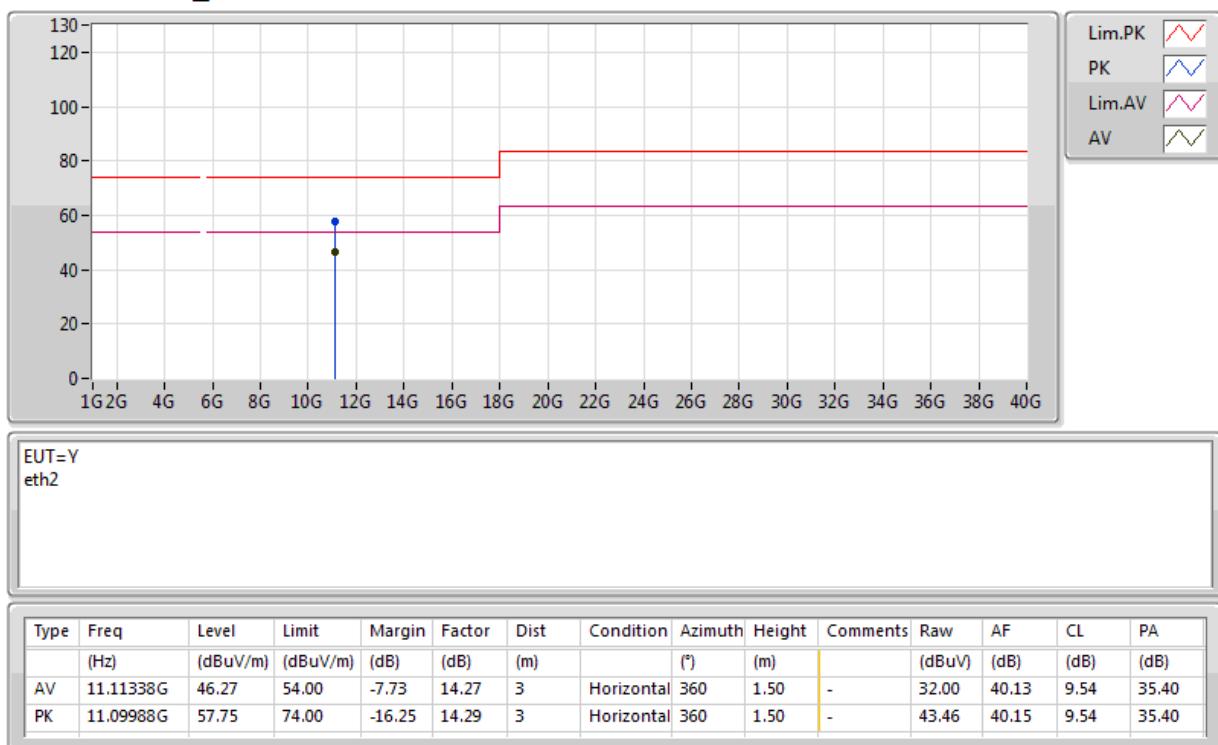
EUT=Y  
eth2

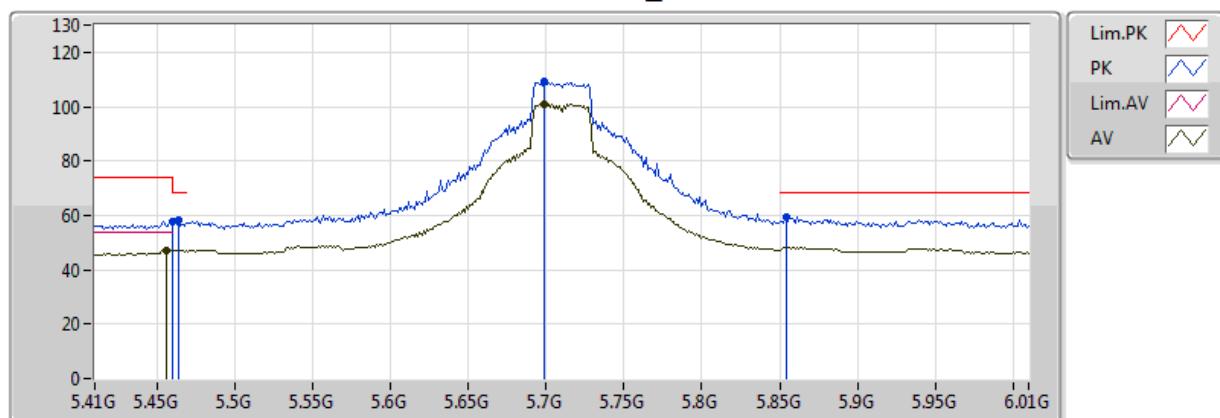
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.6772G	99.38	Inf	-Inf	3.42	3	Horizontal	304	2.04	-	95.96	32.11	6.49	35.18
PK	5.682G	107.41	Inf	-Inf	3.42	3	Horizontal	304	2.04	-	103.98	32.12	6.49	35.18
PK	5.7318G	68.04	68.20	-0.16	3.46	3	Horizontal	304	2.04	-	64.58	32.18	6.47	35.18

## 802.11ac VHT40\_Nss1,(MCS0)\_3TX

### 5670MHz\_TX

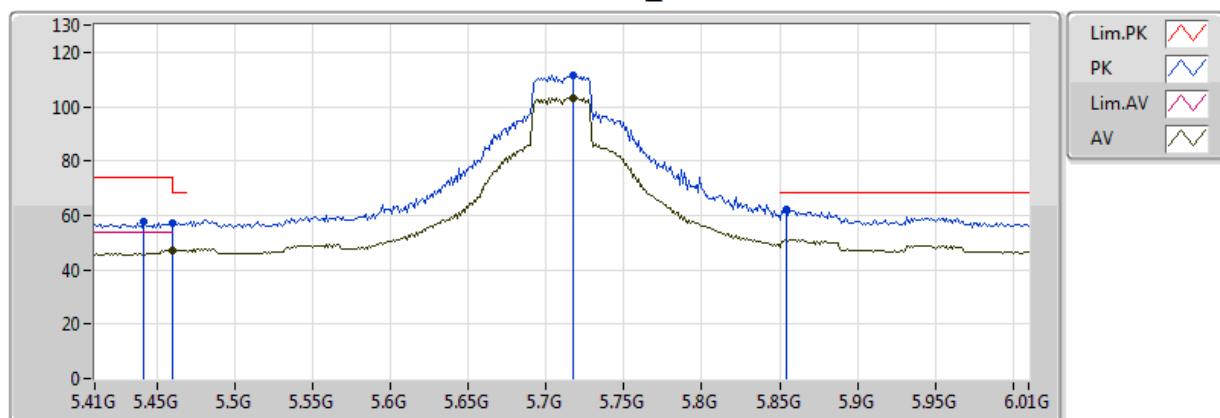


**802.11ac VHT40\_Nss1,(MCS0)\_3TX****5670MHz\_TX**

**802.11ac VHT40\_Nss1,(MCS0)\_3TX**
**5710MHz Straddle 5.47-5.725GHz\_TX**


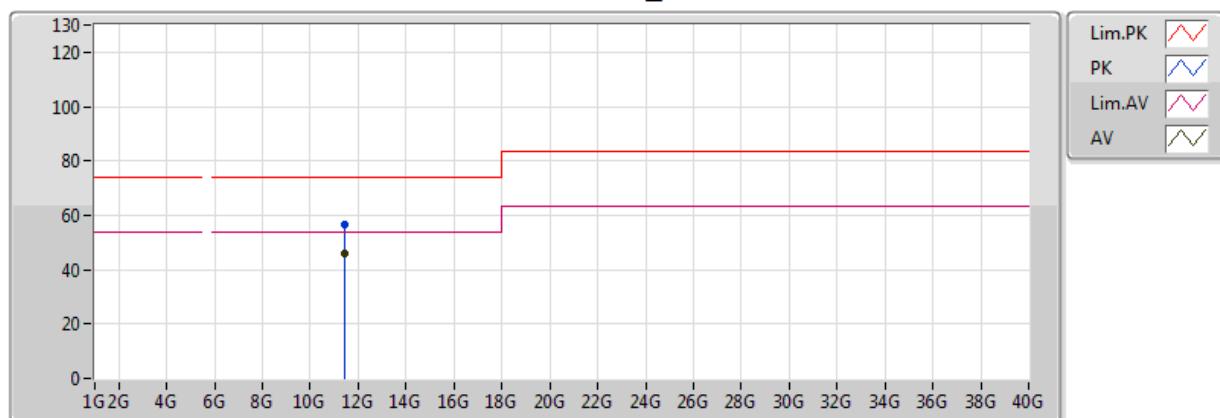
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4556G	47.10	54.00	-6.90	3.22	3	Vertical	22	1.47	-	43.88	31.86	6.53	35.17
AV	5.6992G	100.97	Inf	-Inf	3.44	3	Vertical	22	1.47	-	97.53	32.14	6.48	35.18
PK	5.459995G	57.56	74.00	-16.44	3.23	3	Vertical	22	1.47	-	54.33	31.87	6.53	35.17
PK	5.464G	58.37	68.20	-9.83	3.23	3	Vertical	22	1.47	-	55.14	31.87	6.53	35.17
PK	5.6992G	109.04	Inf	-Inf	3.44	3	Vertical	22	1.47	-	105.60	32.14	6.48	35.18
PK	5.854G	59.40	68.20	-8.80	3.56	3	Vertical	22	1.47	-	55.84	32.32	6.42	35.19

**802.11ac VHT40\_Nss1,(MCS0)\_3TX**
**5710MHz Straddle 5.47-5.725GHz\_TX**


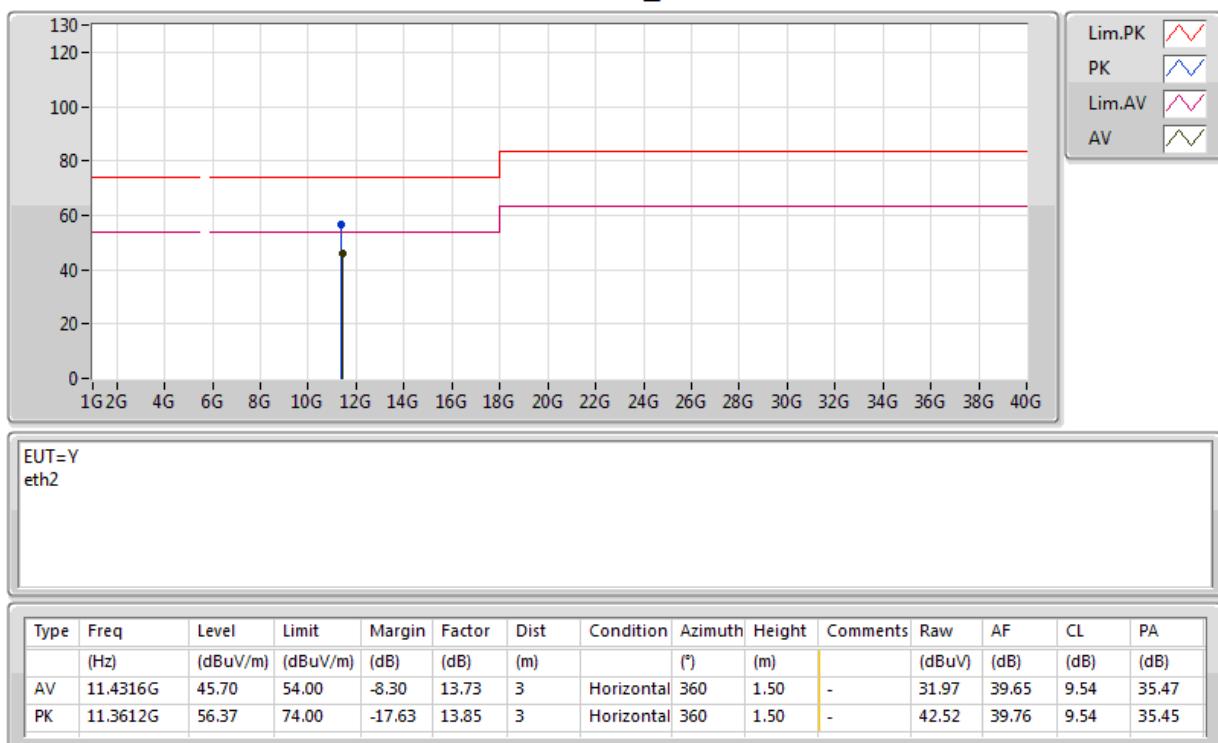
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.459995G	47.11	54.00	-6.89	3.23	3	Horizontal	311	1.81	-	43.89	31.87	6.53	35.17
AV	5.7172G	103.31	Inf	-Inf	3.45	3	Horizontal	311	1.81	-	99.86	32.16	6.47	35.18
PK	5.4412G	57.46	74.00	-16.54	3.21	3	Horizontal	311	1.81	-	54.25	31.85	6.53	35.18
PK	5.4604G	57.22	68.20	-10.98	3.23	3	Horizontal	311	1.81	-	53.99	31.87	6.53	35.17
PK	5.7172G	111.55	Inf	-Inf	3.45	3	Horizontal	311	1.81	-	108.10	32.16	6.47	35.18
PK	5.854G	62.09	68.20	-6.11	3.56	3	Horizontal	311	1.81	-	58.53	32.32	6.42	35.19

**802.11ac VHT40\_Nss1,(MCS0)\_3TX**
**5710MHz Straddle 5.47-5.725GHz\_TX**


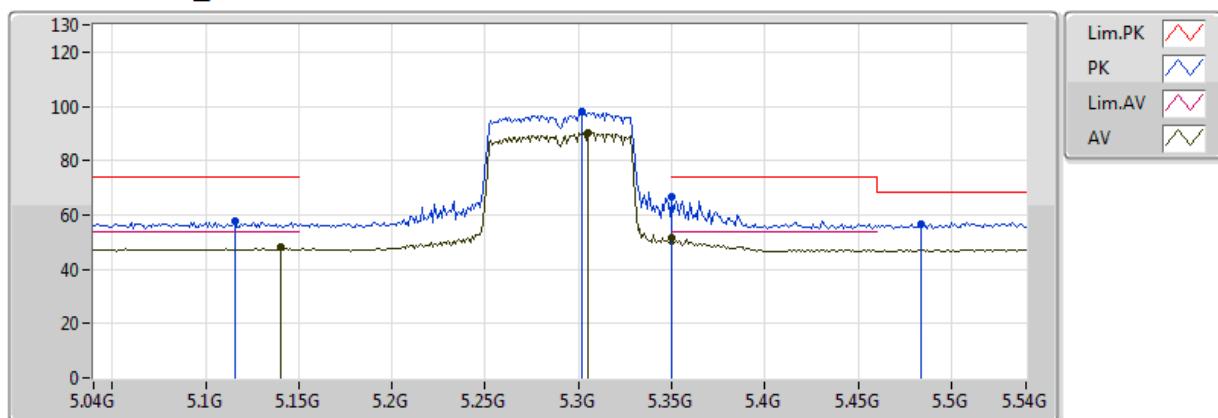
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.41064G	45.67	54.00	-8.33	13.76	3	Vertical	0	1.50	-	31.91	39.68	9.54	35.46
PK	11.41064G	56.45	74.00	-17.55	13.75	3	Vertical	0	1.50	-	42.70	39.68	9.54	35.46

**802.11ac VHT40\_Nss1,(MCS0)\_3TX**
**5710MHz Straddle 5.47-5.725GHz\_TX**


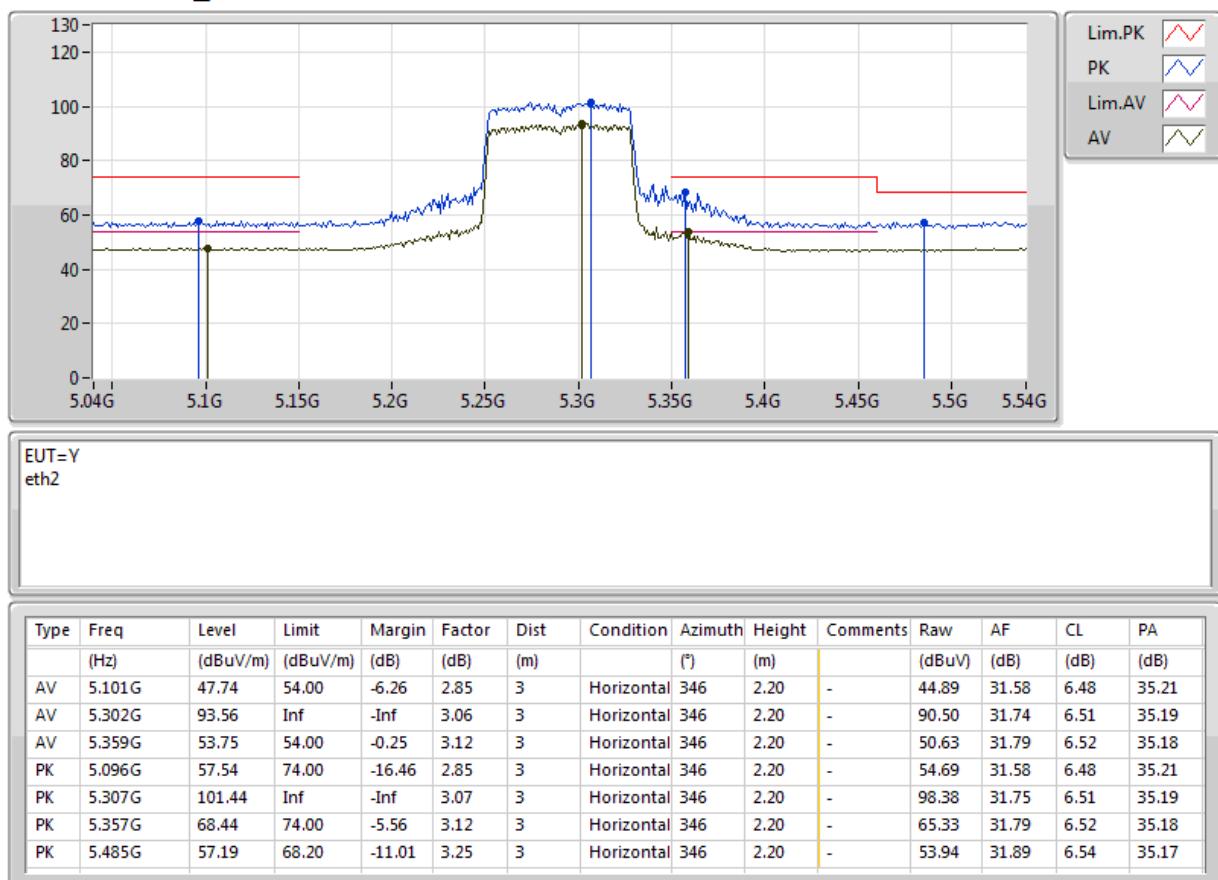
### **802.11ac VHT80\_Nss1,(MCS0)\_3TX**

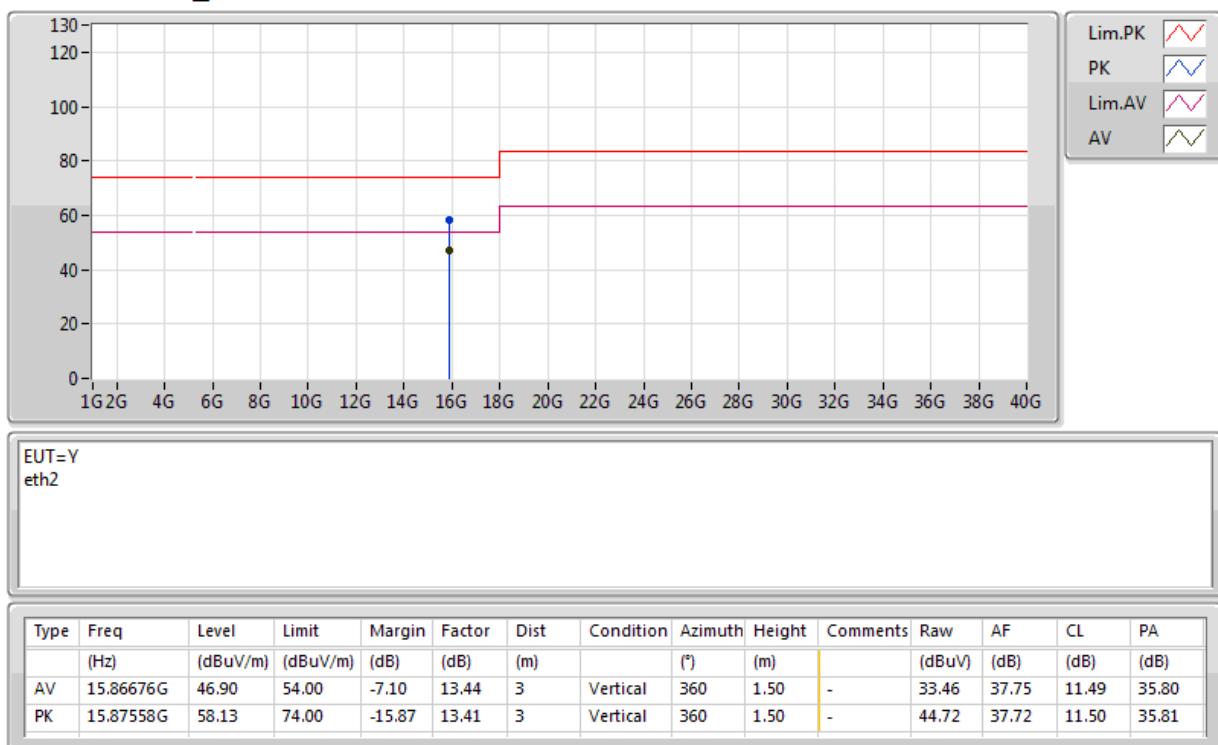
#### **5290MHz\_TX**

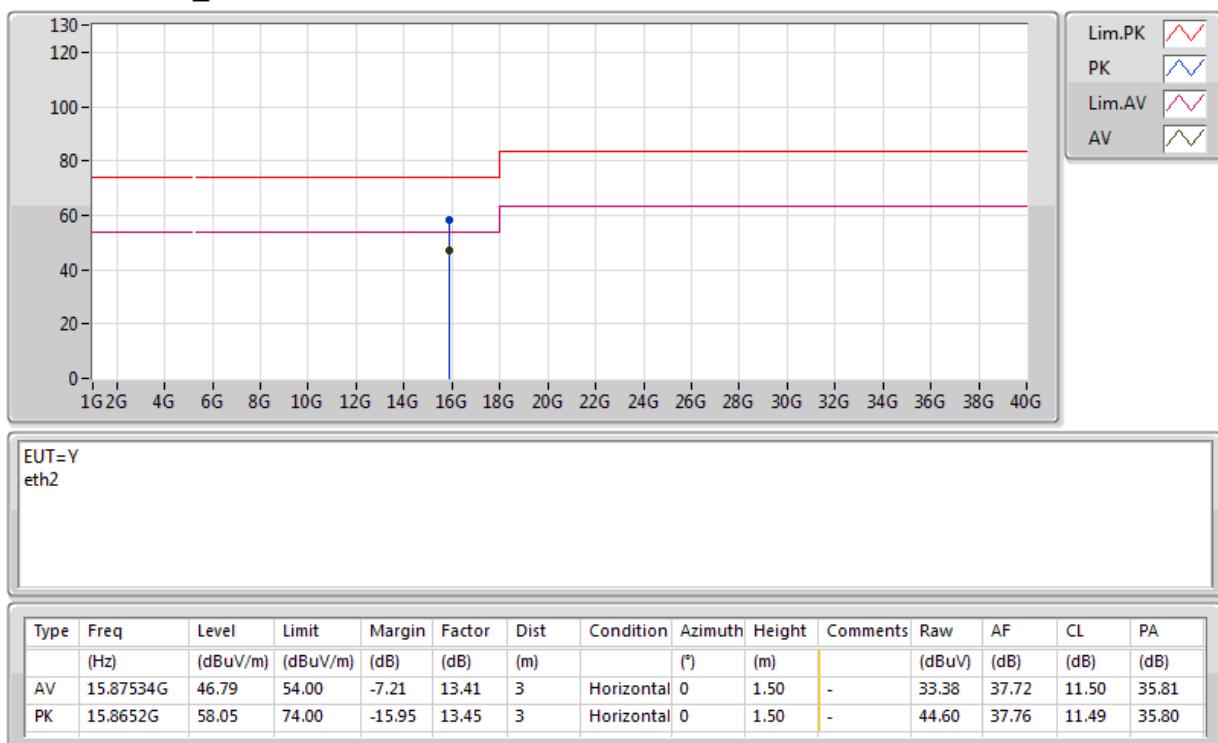


EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.14G	47.93	54.00	-6.07	2.89	3	Vertical	8	1.50	-	45.04	31.61	6.48	35.21
AV	5.305G	90.44	Inf	-Inf	3.07	3	Vertical	8	1.50	-	87.37	31.74	6.51	35.19
AV	5.350005G	51.29	54.00	-2.71	3.11	3	Vertical	8	1.50	-	48.18	31.78	6.52	35.18
PK	5.116G	57.50	74.00	-16.50	2.87	3	Vertical	8	1.50	-	54.64	31.59	6.48	35.21
PK	5.302G	97.83	Inf	-Inf	3.06	3	Vertical	8	1.50	-	94.76	31.74	6.51	35.19
PK	5.350005G	66.57	74.00	-7.43	3.11	3	Vertical	8	1.50	-	63.46	31.78	6.52	35.18
PK	5.484G	56.58	68.20	-11.62	3.25	3	Vertical	8	1.50	-	53.33	31.89	6.54	35.17

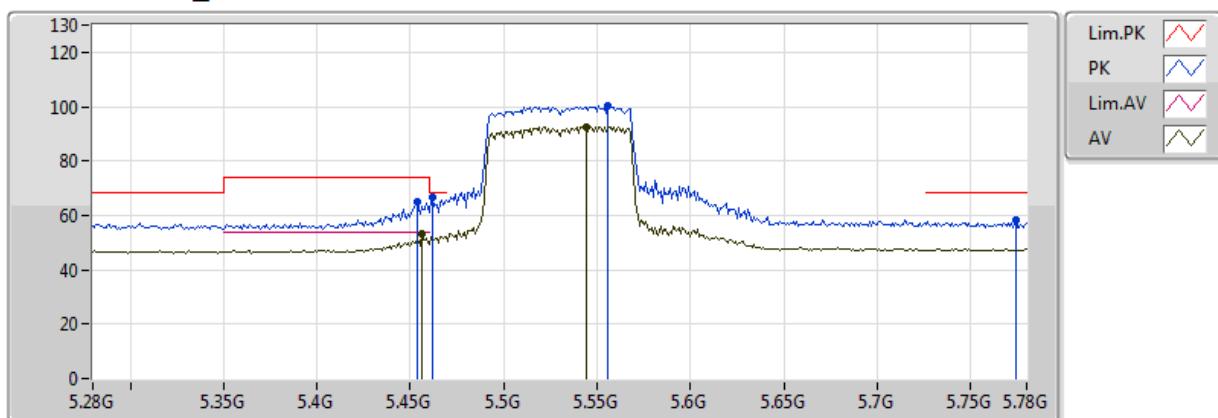
**802.11ac VHT80\_Nss1,(MCS0)\_3TX****5290MHz\_TX**

**802.11ac VHT80\_Nss1,(MCS0)\_3TX****5290MHz\_TX**

**802.11ac VHT80\_Nss1,(MCS0)\_3TX****5290MHz\_TX**

### **802.11ac VHT80\_Nss1,(MCS0)\_3TX**

#### **5530MHz\_TX**

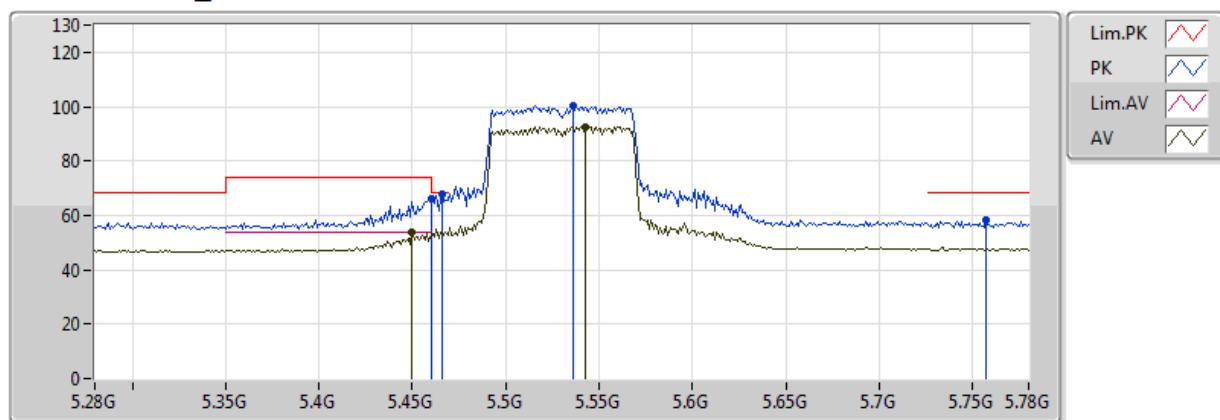


EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.456G	52.96	54.00	-1.04	3.22	3	Vertical	19	1.00	-	49.74	31.86	6.53	35.17
AV	5.544G	92.55	Inf	-Inf	3.31	3	Vertical	19	1.00	-	89.24	31.95	6.53	35.17
PK	5.454G	64.97	74.00	-9.03	3.22	3	Vertical	19	1.00	-	61.75	31.86	6.53	35.17
PK	5.462G	66.70	68.20	-1.50	3.23	3	Vertical	19	1.00	-	63.47	31.87	6.53	35.17
PK	5.556G	100.58	Inf	-Inf	3.31	3	Vertical	19	1.00	-	97.26	31.97	6.52	35.18
PK	5.774G	58.02	68.20	-10.18	3.49	3	Vertical	19	1.00	-	54.53	32.23	6.45	35.19

## 802.11ac VHT80\_Nss1,(MCS0)\_3TX

### 5530MHz\_TX

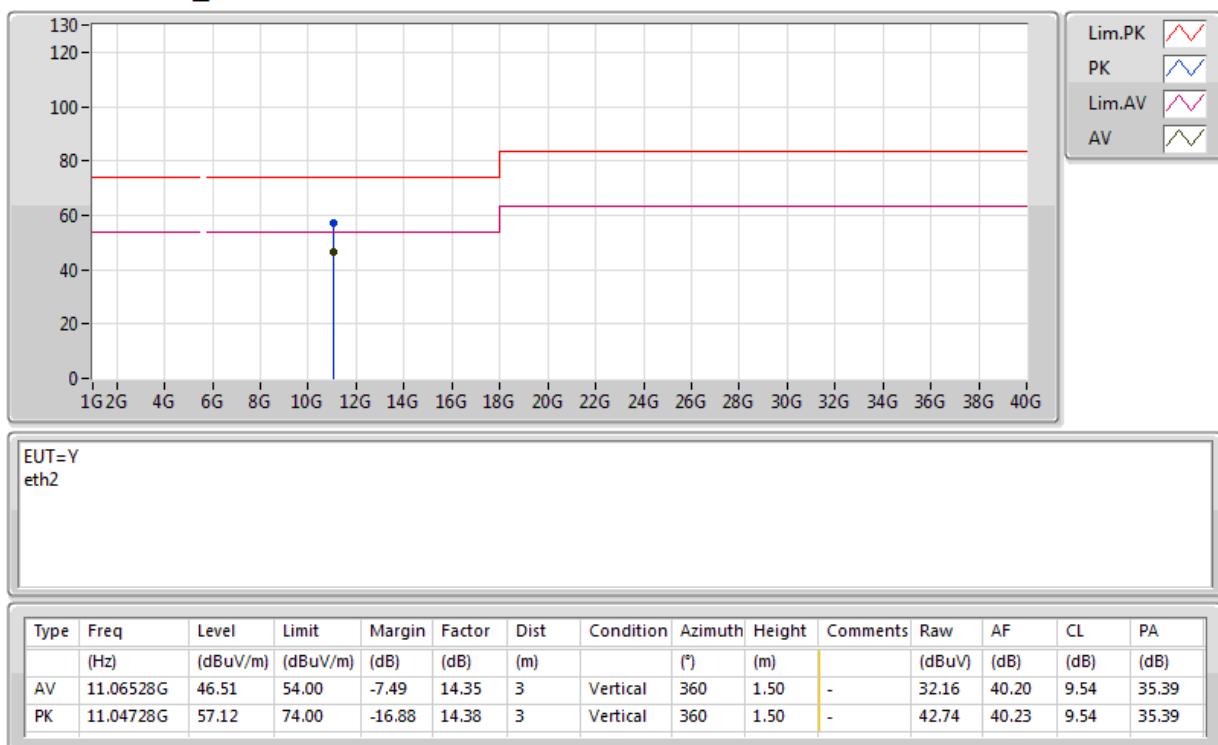


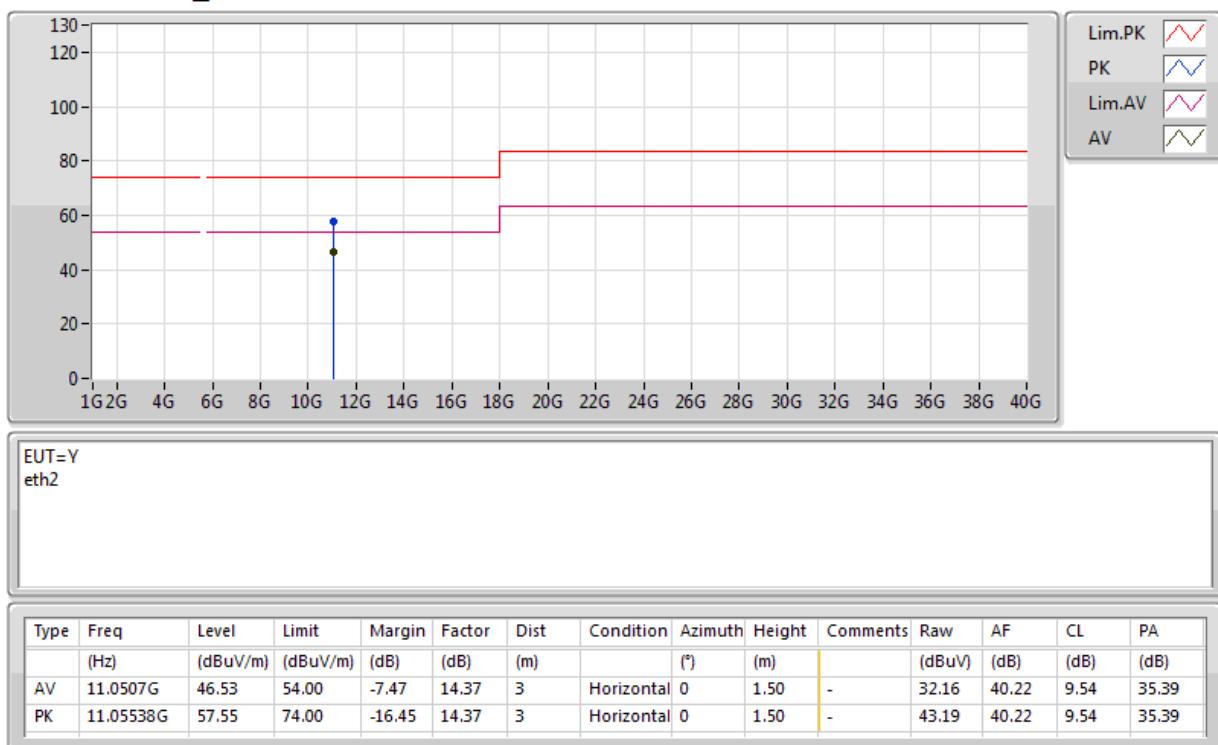
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.45G	53.74	54.00	-0.26	3.22	3	Horizontal	336	2.02	-	50.53	31.86	6.53	35.17
AV	5.543G	92.61	Inf	-Inf	3.30	3	Horizontal	336	2.02	-	89.30	31.95	6.53	35.17
PK	5.46G	66.28	74.00	-7.72	3.23	3	Horizontal	336	2.02	-	63.06	31.87	6.53	35.17
PK	5.466G	68.00	68.20	-0.20	3.23	3	Horizontal	336	2.02	-	64.77	31.87	6.53	35.17
PK	5.536G	100.08	Inf	-Inf	3.30	3	Horizontal	336	2.02	-	96.79	31.94	6.53	35.17
PK	5.757G	58.15	68.20	-10.05	3.48	3	Horizontal	336	2.02	-	54.67	32.21	6.46	35.19

## **802.11ac VHT80\_Nss1,(MCS0)\_3TX**

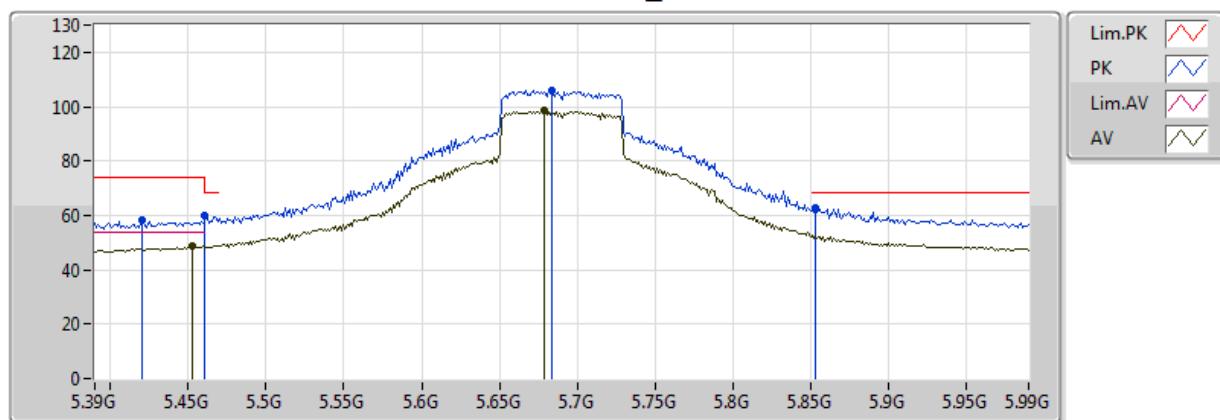
### **5530MHz\_TX**



**802.11ac VHT80\_Nss1,(MCS0)\_3TX****5530MHz\_TX**

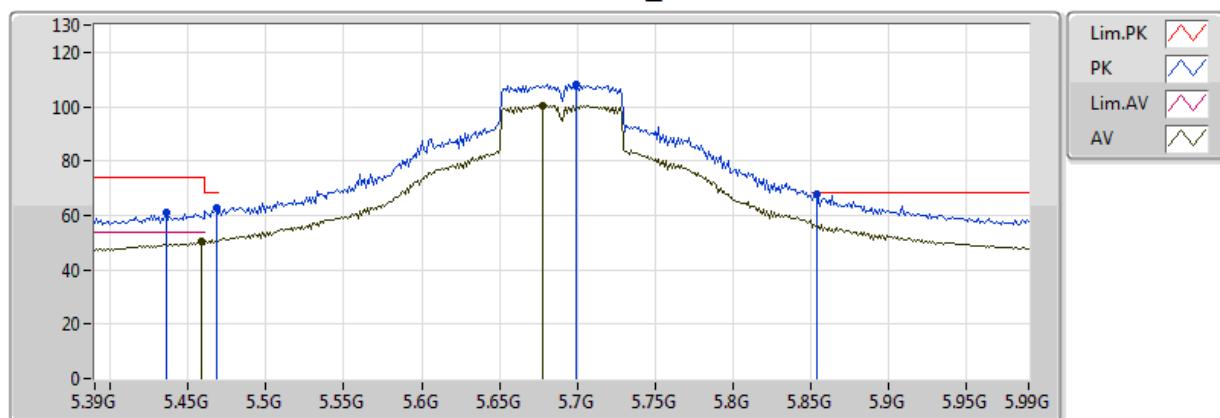
### **802.11ac VHT80\_Nss1,(MCS0)\_3TX**

#### **5690MHz Straddle 5.47-5.725GHz\_TX**



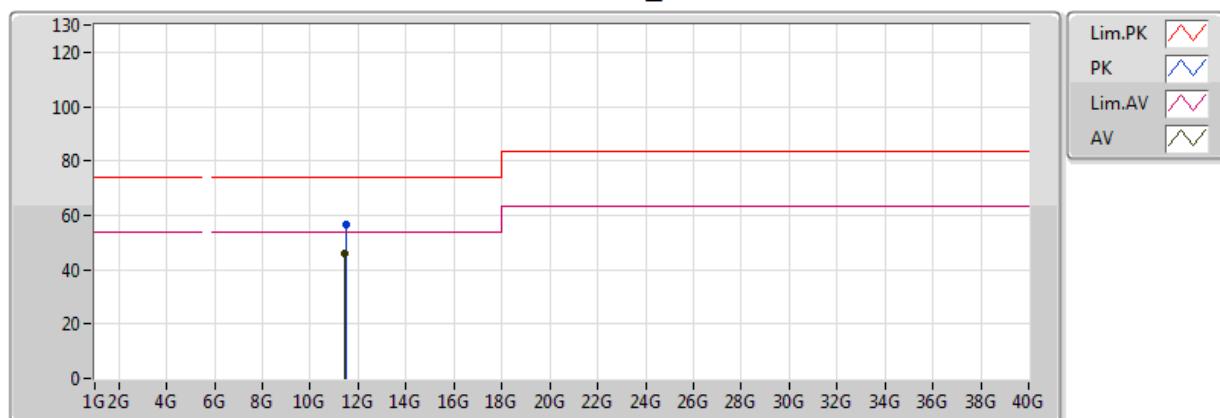
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4524G	48.83	54.00	-5.17	3.22	3	Vertical	17	1.47	-	45.62	31.86	6.53	35.17
AV	5.6792G	98.40	Inf	-Inf	3.42	3	Vertical	17	1.47	-	94.98	32.12	6.49	35.18
PK	5.42G	58.52	74.00	-15.48	3.18	3	Vertical	17	1.47	-	55.34	31.84	6.52	35.18
PK	5.4608G	59.85	68.20	-8.35	3.23	3	Vertical	17	1.47	-	56.62	31.87	6.53	35.17
PK	5.684G	105.86	Inf	-Inf	3.43	3	Vertical	17	1.47	-	102.43	32.12	6.48	35.18
PK	5.8532G	62.68	68.20	-5.52	3.56	3	Vertical	17	1.47	-	59.13	32.32	6.42	35.19

**802.11ac VHT80\_Nss1,(MCS0)\_3TX**
**5690MHz Straddle 5.47-5.725GHz\_TX**


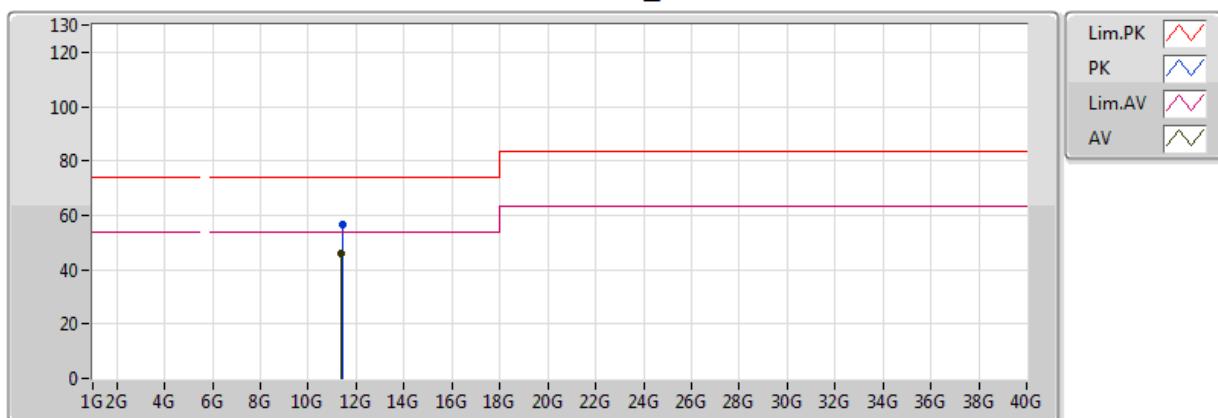
EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4584G	50.35	54.00	-3.65	3.22	3	Horizontal	297	1.98	-	47.13	31.87	6.53	35.17
AV	5.678G	100.36	Inf	-Inf	3.42	3	Horizontal	297	1.98	-	96.94	32.11	6.49	35.18
PK	5.4356G	60.98	74.00	-13.02	3.20	3	Horizontal	297	1.98	-	57.78	31.85	6.53	35.18
PK	5.468G	62.58	68.20	-5.62	3.23	3	Horizontal	297	1.98	-	59.35	31.87	6.53	35.17
PK	5.6996G	108.08	Inf	-Inf	3.44	3	Horizontal	297	1.98	-	104.64	32.14	6.48	35.18
PK	5.8544G	67.82	68.20	-0.38	3.56	3	Horizontal	297	1.98	-	64.26	32.33	6.42	35.19

**802.11ac VHT80\_Nss1,(MCS0)\_3TX****5690MHz Straddle 5.47-5.725GHz\_TX**

EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.4472G	45.78	54.00	-8.22	13.70	3	Vertical	360	1.50	-	32.08	39.63	9.54	35.47
PK	11.4792G	56.72	74.00	-17.28	13.65	3	Vertical	360	1.50	-	43.08	39.58	9.54	35.48

**802.11ac VHT80\_Nss1,(MCS0)\_3TX**
**5690MHz Straddle 5.47-5.725GHz\_TX**


EUT=Y  
eth2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.3848G	45.84	54.00	-8.16	13.81	3	Horizontal	0	1.50	-	32.04	39.72	9.54	35.46
PK	11.4036G	56.84	74.00	-17.16	13.77	3	Horizontal	0	1.50	-	43.07	39.69	9.54	35.46