

# FCC Test Report

**Equipment** : Secured Wireless Access Point  
**Brand Name** : Fortinet Inc.  
**Model No.** : FORTIAP-U24JEVxxxxxx, FAP-U24JEVxxxxxx  
**FCC ID** : TVE-121C01  
**Standard** : 47 CFR FCC Part 15.407  
**Operating Band** : 5150 MHz – 5250 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

The product sample received on Apr. 07, 2017 and completely tested on Oct. 11, 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 / Assistant Manager



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## Summary of Test Result

Conformance Test Specifications			
Report Clause	Ref. Std. Clause	Description	Result
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.207	AC Power-line Conducted Emissions	Complied
3.2	15.407(a)	Emission Bandwidth	Complied
3.3	15.407(a)	Maximum Conducted Output Power	Complied
3.4	15.407(a)	Peak Power Spectral Density	Complied
3.5	15.407(b)	Unwanted Emissions	Complied
3.6	15.407(g)	Frequency Stability	Complied



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TEL : 886-3-3273456  
FAX : 886-3-3270973  
FCC ID: TVE-121C01

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX

**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**

Ant.	Port	Brand	Model Name	Antenna Type	Connector
1	1	Aristotle	RFA-25-AP375-70B-72	PIFA Antenna	I-PEX
2	2	Aristotle	RFA-25-AP513B-70B-56	PIFA Antenna	I-PEX
3	1	Aristotle	RFA-BT-AP375-70-105	PIFA Antenna	I-PEX

Ant.	Gain (dBi)		
	2.4G	5G	BT
1	4	4	-
2	1.41	3.77	-
3	-	-	3.2

Note 1: The EUT has three antennas.

**For 2.4GHz function:**

For IEEE 802.11 b/g/n mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

**For 5GHz function:**

For IEEE 802.11 a/n/ac mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

**For BT function:**

For BT-LE/BR/EDR (1TX/1RX)

Only Ant. 3 (port 1) can be used as transmitting/receiving antenna.

**1.1.3 EUT Information**

Identify EUT			
RF chip	BCM47452		
Operational Condition			
EUT Power Type	From AC Adapter		
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/> Without beamforming	
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) $\geq 1/T$
802.11a	0.987	0.057	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20	0.985	0.066	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	0.966	0.15	955.625u	3k
802.11ac VHT80	0.933	0.301	463.75u	3k

### 1.1.5 Table for Multiple Listing

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

Model Name	Description
FORTIAP-U24JEVxxxxxx	Where "x" can be used as "A-Z", or "-0-9", or "-", or blank for software changes or marking purposes only.
FAP-U24JEVxxxxxx	

## 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 v02r01
- ♦ KDB 662911 D01 v02r01

## 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	Gary	21°C / 61%	19/Apr/2017
Radiated	03CH09-HY	Jeff	20.9°C / 58%	28/Apr/2017
AC Conduction	CO04-HY	Eric	20.9°C / 58%	11/Oct/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)	3.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	2.1 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
TnomVnom	Tnom	20°C
	Vnom	120V
Freq. Stability	Abbreviation	Remark
0°C		
10°C		
20°C		
30°C		
40°C		
138V		
120V		
102V		

### 2.2 Test Channel Mode

Test Software Version	accessMTool_REL_3_0_0_2
-----------------------	-------------------------

Mode	Power Setting
802.11a_(6Mbps)_2TX	-
5180MHz	64
5200MHz	70
5240MHz	74
5745MHz	80
5785MHz	80
5825MHz	80
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	66
5200MHz	73
5240MHz	66
5745MHz	80
5785MHz	80
5825MHz	80
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	49



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<b>Mode</b>	<b>Power Setting</b>
5230MHz	73
5755MHz	75
5795MHz	80
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	50
5775MHz	71

## 2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral
<b>Operating Mode</b>	CTX
1	Adapter mode

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>	Unwanted Emissions	
<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 &lt; 1GHz</b>	CTX	
1	Adapter mode	
<b>Operating Mode &gt; 1GHz</b>	CTX	
<b>Orthogonal Planes of EUT</b>	<b>Y Plane</b>	<b>Z Plane</b>
		
<b>Worst Planes of EUT</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>	Normal Link
1	WLAN 2.4GHz +WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis
<b>Operating Mode</b>	Normal Link
1	Bluetooth+WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA732918 for Co-location RF Exposure Evaluation.	

## 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

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	AC adapter	UMEC	UP0451H-54PP	-

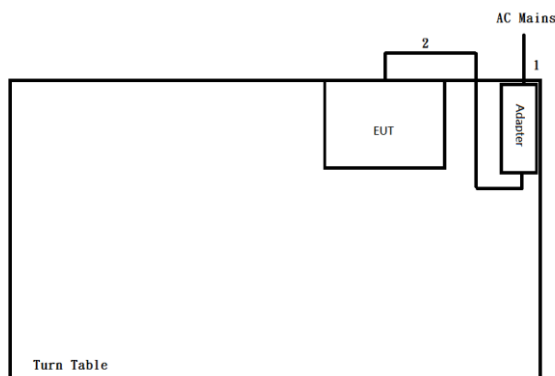
Note: Support equipment No.1 was provided by customer.

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	AC adapter	UMEC	UP0451H-54PP	-

Note: Support equipment No.1 was provided by customer.

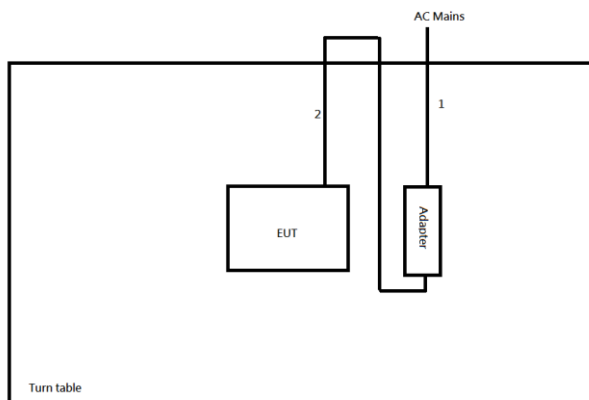
## 2.5 Test Setup Diagram

**Test Setup Diagram – AC Line Conducted Emission Test**



Item	Connection	Shielded	Length(m)	Remark
1	AC power line	No	1.7	-
2	DC power line	No	1.2	-

**Test Setup Diagram - Radiated Test**



Item	Connection	Shielded	Length(m)	Remark
1	AC power line	No	1.7	-
2	DC power line	No	1.2	-

### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

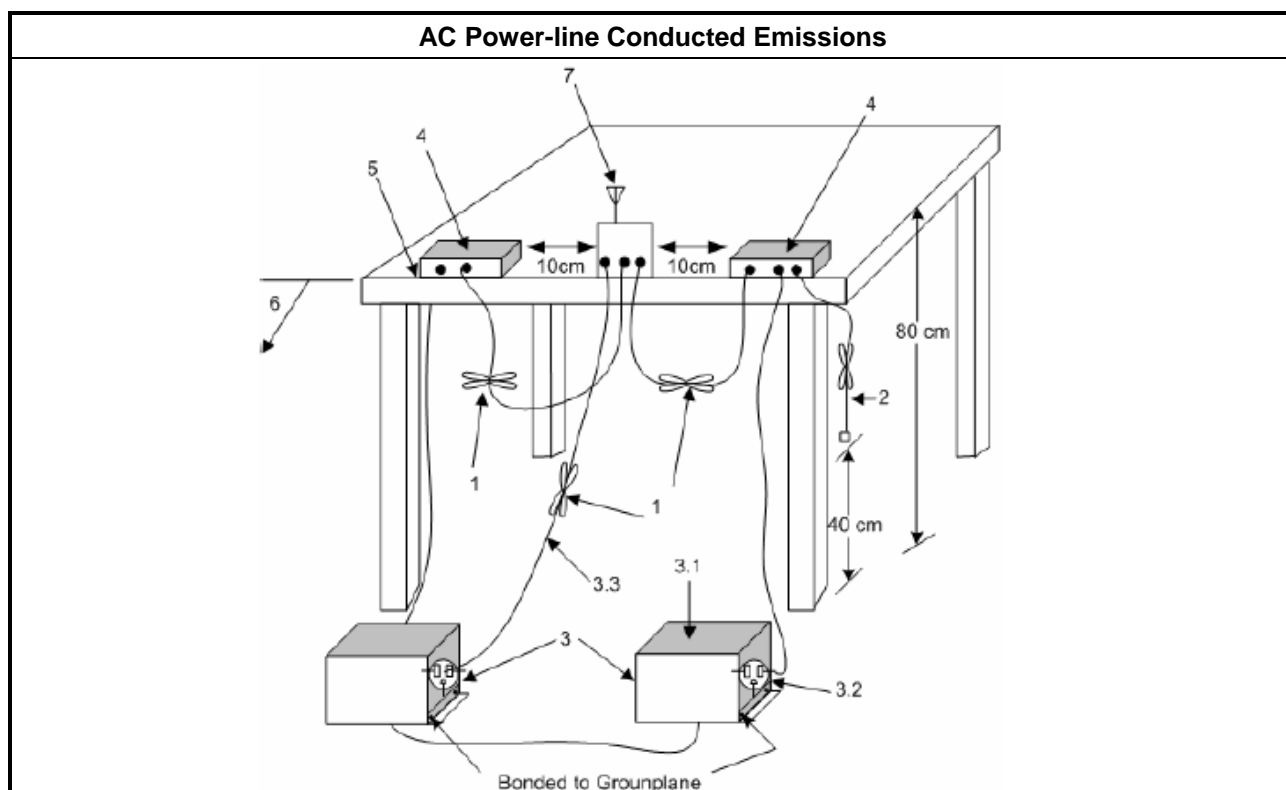
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

## 3.2 Emission Bandwidth

### 3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
<b>UNII Devices</b>	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input 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 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 $\geq$ 500kHz.

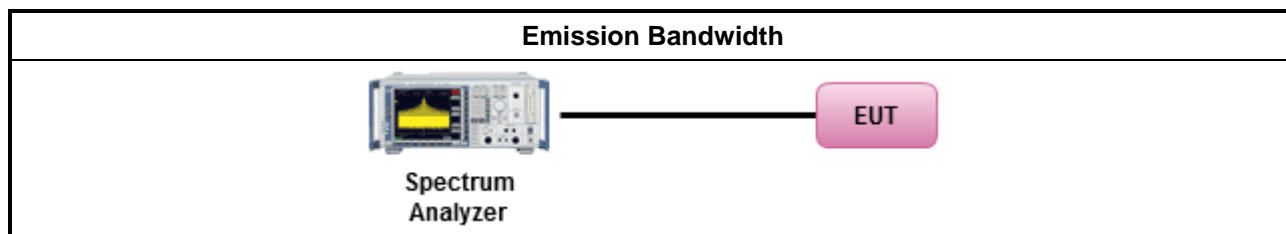
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>For the emission bandwidth shall be measured using one of the options below:</li> </ul>	
<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.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
<b>UNII Devices</b>	
<input checked="" 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 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 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>
$P_{Out}$ = maximum conducted output power in dBm, $G_{TX}$ = the maximum transmitting antenna directional gain in dBi.	



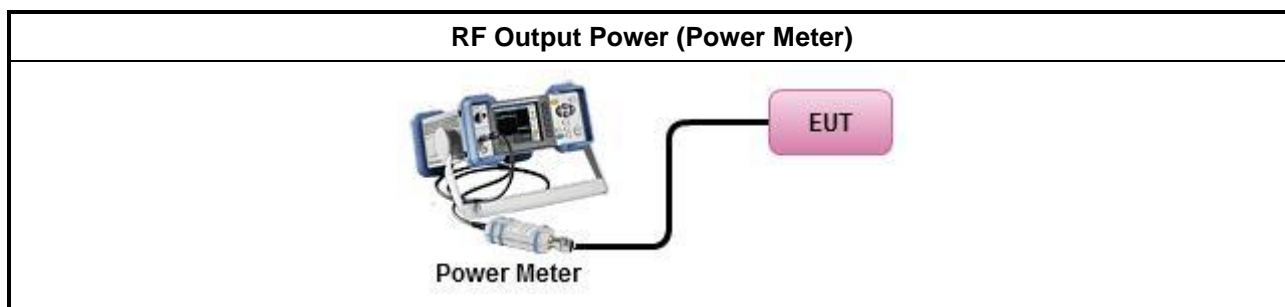
### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>Maximum Conducted Output Power</li> </ul>	
	Duty cycle $\geq 98\%$
<input type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
<input 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).
<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: 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> </ul>	
<ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP calculation could be following as methods:  <math>P_{\text{total}} = P_1 + P_2 + \dots + P_n</math>                      (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}</math> </li> </ul>	

### 3.3.4 Test Setup



### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

### 3.4 Peak Power Spectral Density

#### 3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
<b>UNII Devices</b>	
<input checked="" 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> </ul>
	<ul style="list-style-type: none"> <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> </ul>
	<ul style="list-style-type: none"> <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> </ul>
	<ul style="list-style-type: none"> <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 <math>PPSD = 11 - (G_{TX} - 6)</math>.</li> </ul>
<input 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 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 <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> </ul>
	<ul style="list-style-type: none"> <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.	

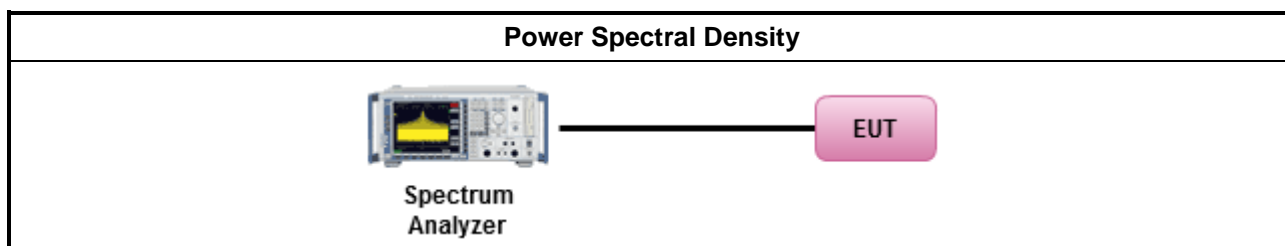
#### 3.4.2 Measuring Instruments

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>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 ≥ 98%	
<input 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>	
<ul style="list-style-type: none"> <li>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.</li> </ul>	
<ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP PPSD calculation could be following as methods:  <math display="block">PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n</math> (calculated in linear unit [mW] and transfer to log unit [dBm])  <math display="block">EIRP_{total} = PPSD_{total} + DG</math> </li> </ul>	

### 3.4.4 Test Setup



### 3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

### 3.5 Unwanted Emissions

#### 3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	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 ~ 68.2dBuV/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).

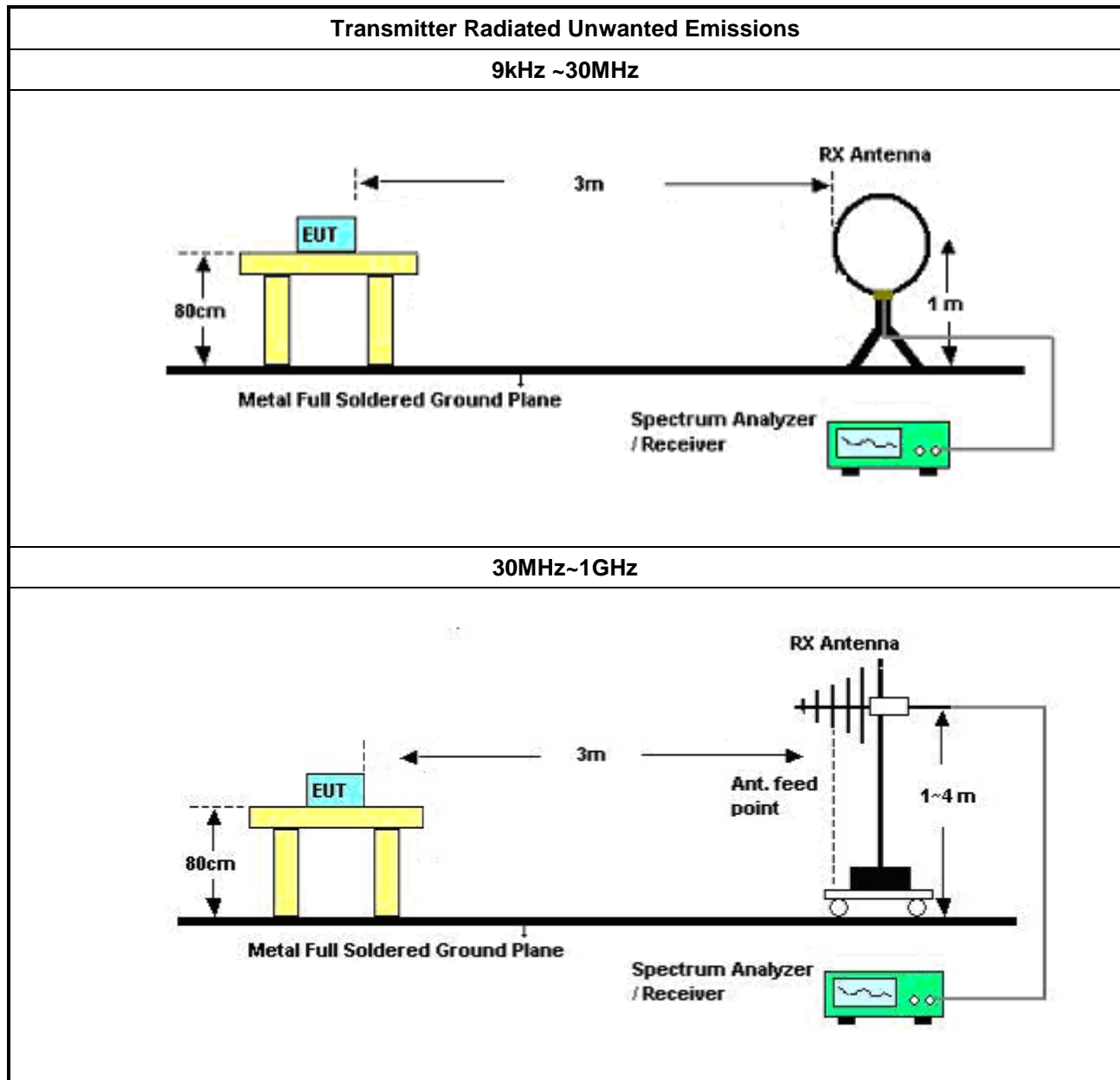
### 3.5.2 Measuring Instruments

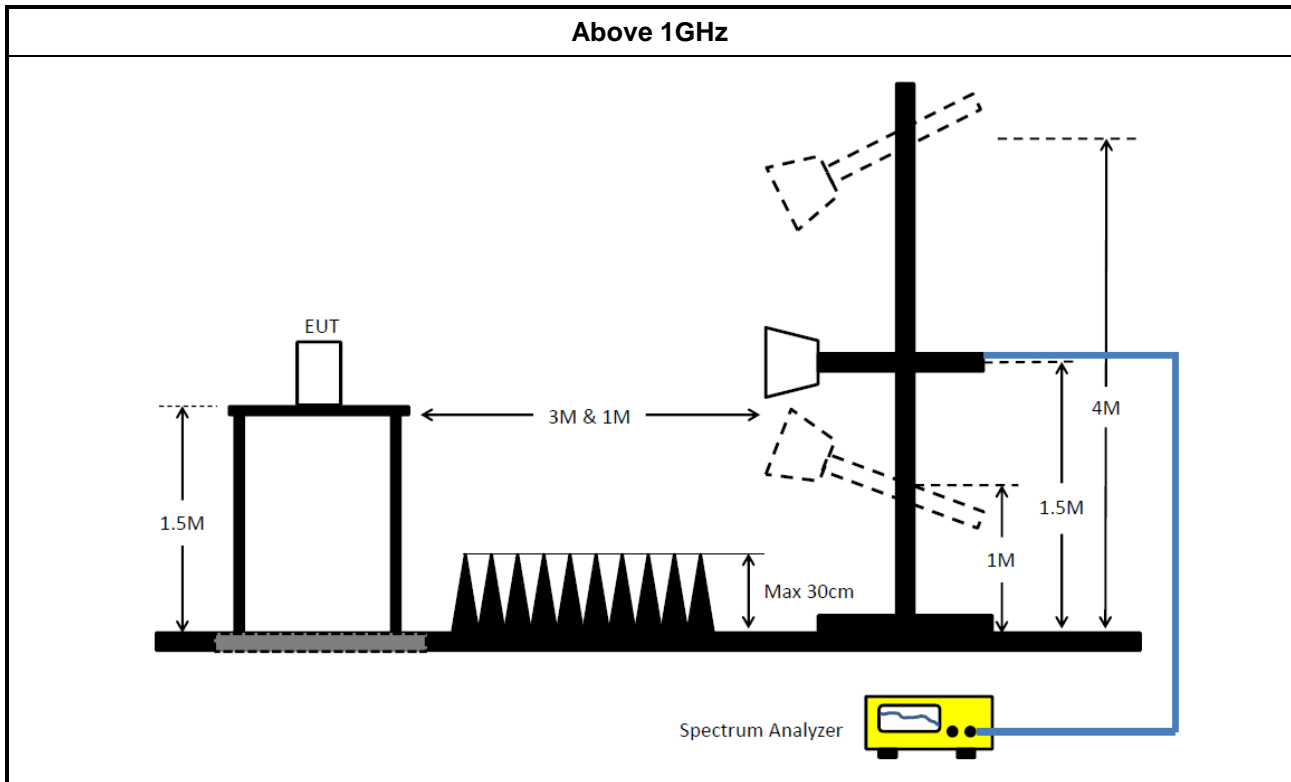
Refer a test equipment and calibration data table in this test report.

### 3.5.3 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:</li> </ul>	
	<ul style="list-style-type: none"> <li>Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.</li> </ul>
	<ul style="list-style-type: none"> <li>Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.</li> </ul>
	<input checked="" type="checkbox"/> Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
	<input checked="" type="checkbox"/> Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
<ul style="list-style-type: none"> <li>For radiated measurement.</li> </ul>	
	<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> </ul>
	<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> </ul>
	<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul>
<ul style="list-style-type: none"> <li>The any unwanted emissions level shall not exceed the fundamental emission level.</li> </ul>	
<ul style="list-style-type: none"> <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>	

### 3.5.4 Test Setup





### 3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

### 3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

### 3.6 Frequency Stability

#### 3.6.1 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>	

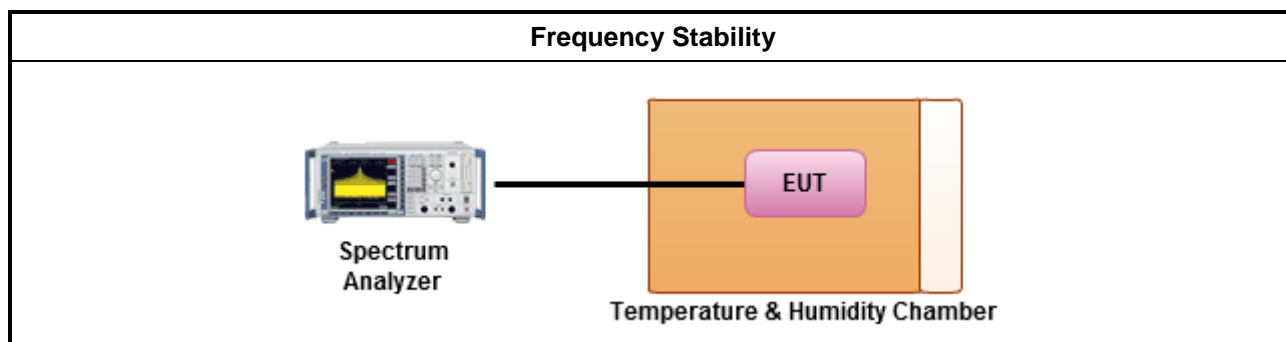
#### 3.6.2 Measuring Instruments

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

#### 3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.8 for frequency stability tests</li> </ul>	
	<ul style="list-style-type: none"> <li>Frequency stability with respect to ambient temperature</li> </ul>
	<ul style="list-style-type: none"> <li>Frequency stability when varying supply voltage</li> </ul>

#### 3.6.4 Test Setup



#### 3.6.5 Test Result of Frequency Stability

Refer as Appendix F



## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9KHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	15/Nov/2017	14/Nov/2018
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	24/Oct/2016	23/Oct/2017
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	R&S	ESH3-Z2	100921	10 kHz ~ 30 MHz	21/Oct/2016	20/Oct/2017

**NCR : Non-Calibration Require**

### Instrument for Radiated Test

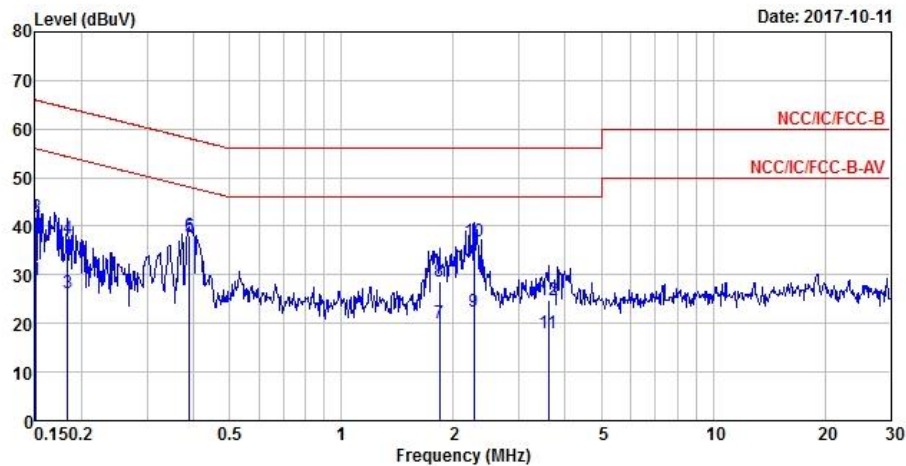
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	21/Jun/2016	20/Jun/2017
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	21/Jun/2016	20/Jun/2017
Amplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	11/Apr/2017	10/Apr/2018
Amplifier	EMC	EMC9135	980209	9kHz~1GHz	05/Sep/2016	04/Sep/2017
Spectrum Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	04/Jul/2016	03/Jul/2017
Bilog Antenna	TESEQ	CBL 6111D	35418	30MHz~1GHz	01/Oct/2016	30/Sep/2017
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA9120D 1534	1GHz~18GHz	28/Apr/2017	27/Apr/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170221	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
Amplifier	MITEQ	JS44-18004000 -33-8P	1840917	18GHz ~ 40GHz	02/Jun/2015	01/Jun/2017
Loop Antenna	R&S	HFH2-Z2	100330	9 kHz~30 MHz	10/Nov/2016	09/Nov/2017
Receiver	R&S	ESR3	102052	9KHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	23/Jul/2016	22/Jul/2017
RF Cable-high	Jye Bao	RG142	03CH09-HY	1GHz ~ 40GHz	23/Jul/2016	22/Jul/2017

**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	21/Jul/2016	20/Jul/2017
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	04/Jun/2016	03/Jun/2017
Temp. and Humidity Chamber	Giant Force	GTH-225-40-CP-AR	MAA1611-005	-40 ~ 100℃	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

## AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter mode		

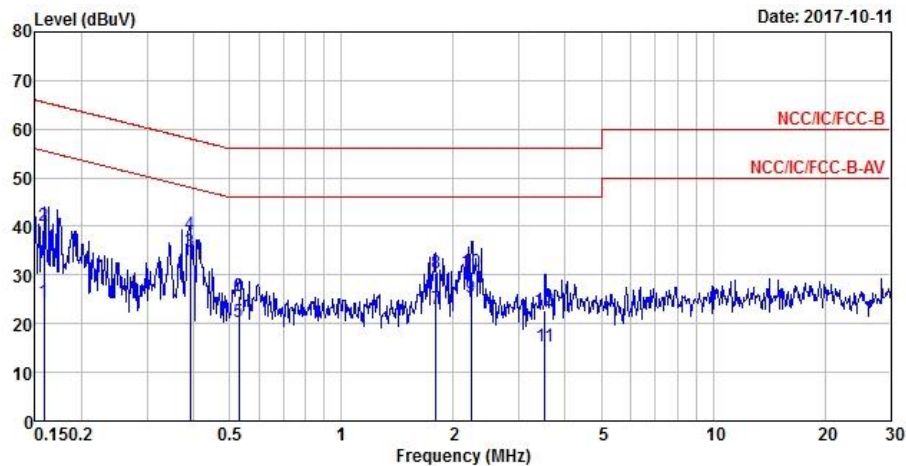


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15080	29.07	-26.89	55.96	19.47	9.60	0.00	Average
2	0.15080	41.95	-24.01	65.96	32.35	9.60	0.00	QP
3	0.18346	26.21	-28.12	54.33	16.56	9.65	0.00	Average
4	0.18346	37.62	-26.71	64.33	27.97	9.65	0.00	QP
5 MAX	0.38929	37.80	-10.28	48.08	28.17	9.63	0.00	Average
6	0.38929	38.09	-19.99	58.08	28.46	9.63	0.00	QP
7	1.83856	20.09	-25.91	46.00	10.45	9.64	0.00	Average
8	1.83856	28.49	-27.51	56.00	18.85	9.64	0.00	QP
9	2.27258	22.49	-23.51	46.00	12.83	9.66	0.00	Average
10	2.27258	36.89	-19.11	56.00	27.23	9.66	0.00	QP
11	3.60337	18.02	-27.98	46.00	8.32	9.70	0.00	Average
12	3.60337	24.73	-31.27	56.00	15.03	9.70	0.00	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

## AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter mode		



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15816	24.59	-30.97	55.56	14.93	9.66	0.00	Average
2	0.15816	40.28	-25.28	65.56	30.62	9.66	0.00	QP
3 MAX	0.39136	34.98	-13.05	48.03	25.30	9.68	0.00	Average
4	0.39136	38.26	-19.77	58.03	28.58	9.68	0.00	QP
5	0.52934	20.33	-25.67	46.00	10.67	9.66	0.00	Average
6	0.52934	25.66	-30.34	56.00	16.00	9.66	0.00	QP
7	1.80001	23.01	-22.99	46.00	13.24	9.77	0.00	Average
8	1.80001	30.43	-25.57	56.00	20.66	9.77	0.00	QP
9	2.23675	25.43	-20.57	46.00	15.64	9.79	0.00	Average
10	2.23675	30.59	-25.41	56.00	20.80	9.79	0.00	QP
11	3.52781	15.22	-30.78	46.00	5.45	9.77	0.00	Average
12	3.52781	22.86	-33.14	56.00	13.09	9.77	0.00	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11a_(6Mbps)_2TX	-	-	-	-	-
5.15-5.25GHz	37.05M	16.992M	17M0D1D	21.9M	16.642M
5.725-5.85GHz	16.325M	22.714M	22M7D1D	16.275M	19.015M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-
5.15-5.25GHz	40.45M	17.991M	18M0D1D	24.45M	17.816M
5.725-5.85GHz	17.575M	23.813M	23M8D1D	17.525M	19.64M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-
5.15-5.25GHz	88.25M	36.732M	36M7D1D	40M	36.232M
5.725-5.85GHz	36.35M	55.172M	55M2D1D	35.75M	39.08M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-
5.15-5.25GHz	81.6M	75.662M	75M7D1D	81.3M	75.562M
5.725-5.85GHz	76.1M	76.362M	76M4D1D	75.1M	76.162M

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

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

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

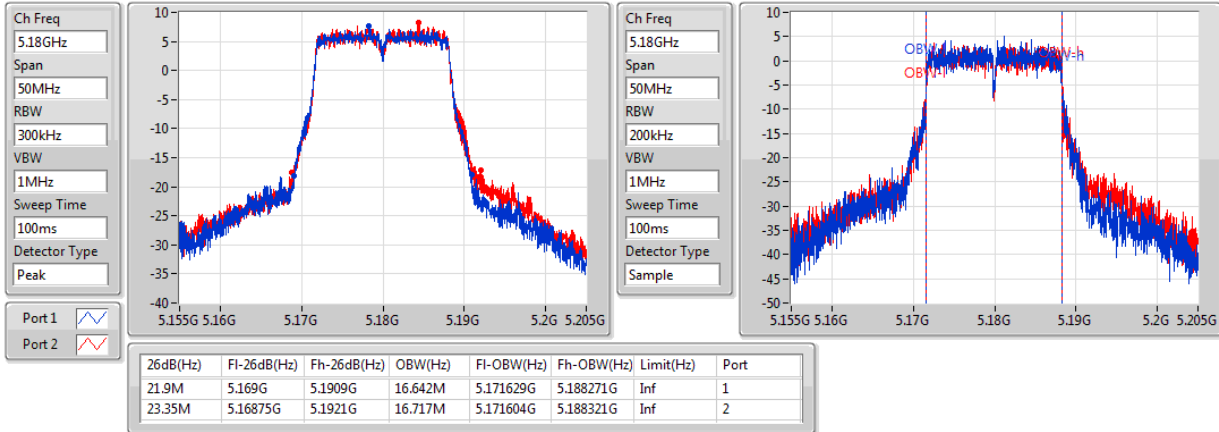
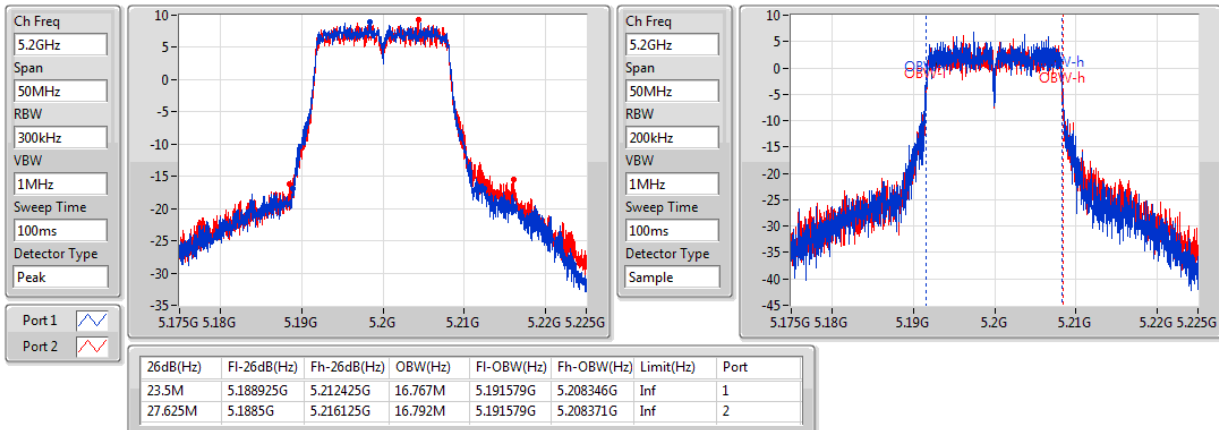
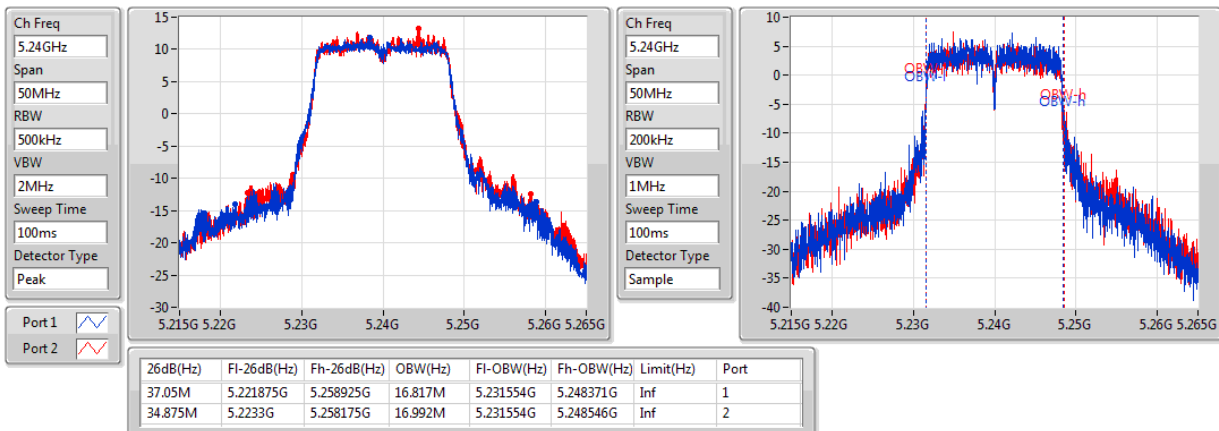
**Min-OBW** = Minimum 99% occupied bandwidth;

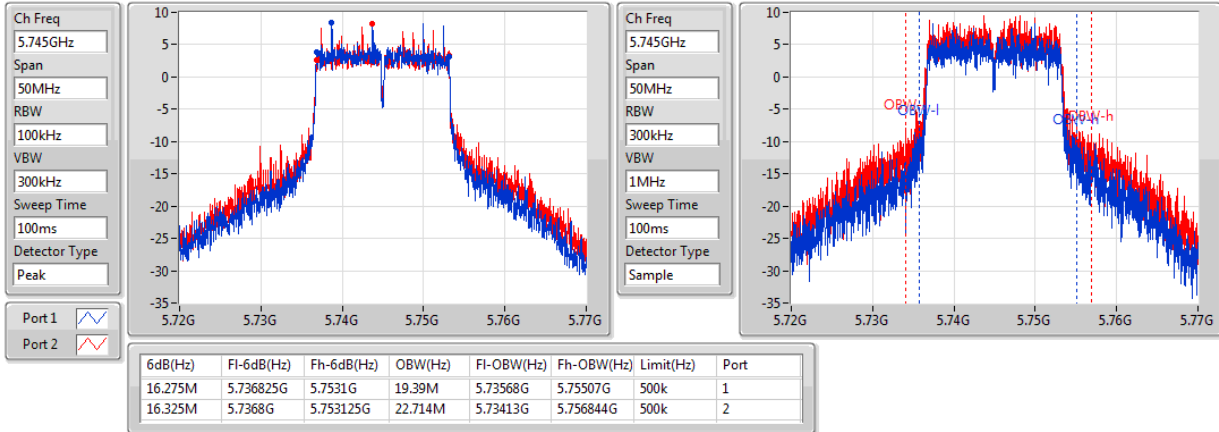
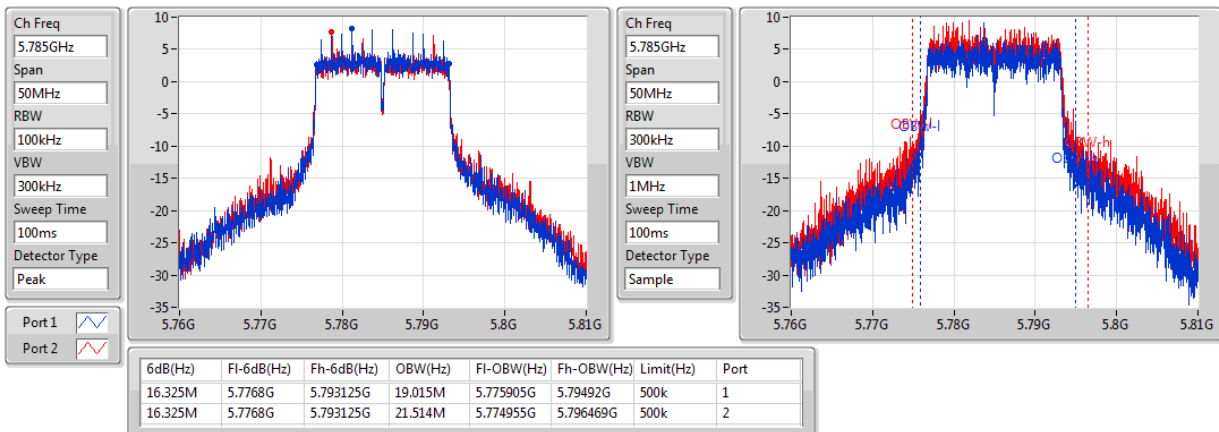
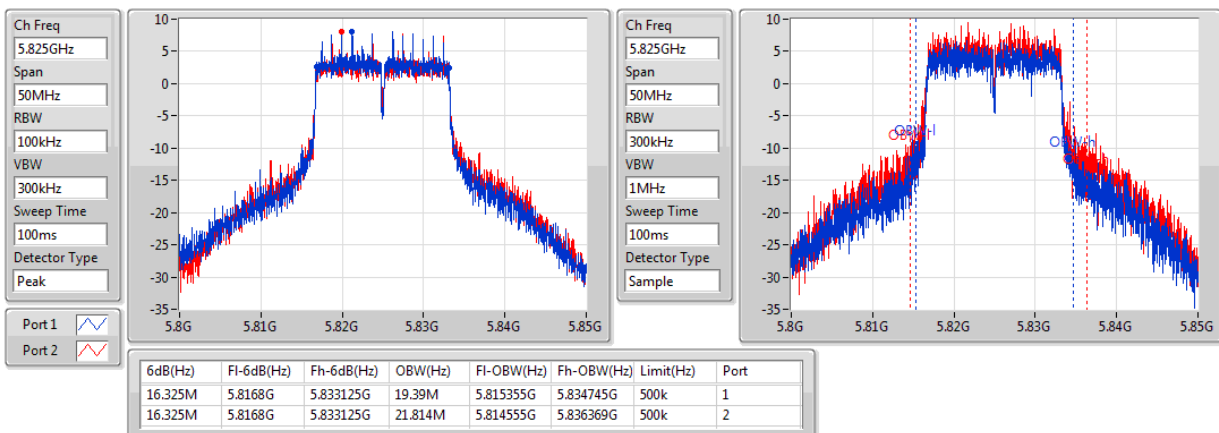
**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_(6Mbps)_2TX	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	21.9M	16.642M	23.35M	16.717M
5200MHz_TnomVnom	Pass	Inf	23.5M	16.767M	27.625M	16.792M
5240MHz_TnomVnom	Pass	Inf	37.05M	16.817M	34.875M	16.992M
5745MHz_TnomVnom	Pass	500k	16.275M	19.39M	16.325M	22.714M
5785MHz_TnomVnom	Pass	500k	16.325M	19.015M	16.325M	21.514M
5825MHz_TnomVnom	Pass	500k	16.325M	19.39M	16.325M	21.814M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	24.45M	17.841M	25.95M	17.816M
5200MHz_TnomVnom	Pass	Inf	40.45M	17.941M	34.225M	17.991M
5240MHz_TnomVnom	Pass	Inf	26.1M	17.841M	27.2M	17.866M
5745MHz_TnomVnom	Pass	500k	17.525M	19.64M	17.575M	23.813M
5785MHz_TnomVnom	Pass	500k	17.55M	19.765M	17.55M	22.514M
5825MHz_TnomVnom	Pass	500k	17.55M	19.765M	17.575M	23.213M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	Inf	40.2M	36.232M	40M	36.282M
5230MHz_TnomVnom	Pass	Inf	88.25M	36.532M	83.15M	36.732M
5755MHz_TnomVnom	Pass	500k	36.3M	39.08M	36.35M	40.73M
5795MHz_TnomVnom	Pass	500k	35.75M	53.823M	36.3M	55.172M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	Inf	81.6M	75.662M	81.3M	75.562M
5775MHz_TnomVnom	Pass	500k	75.1M	76.162M	76.1M	76.362M

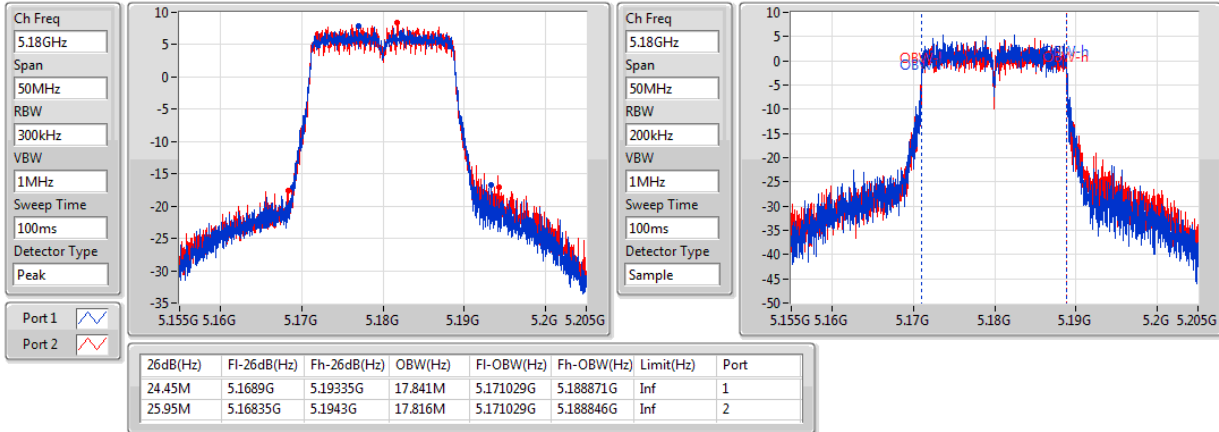
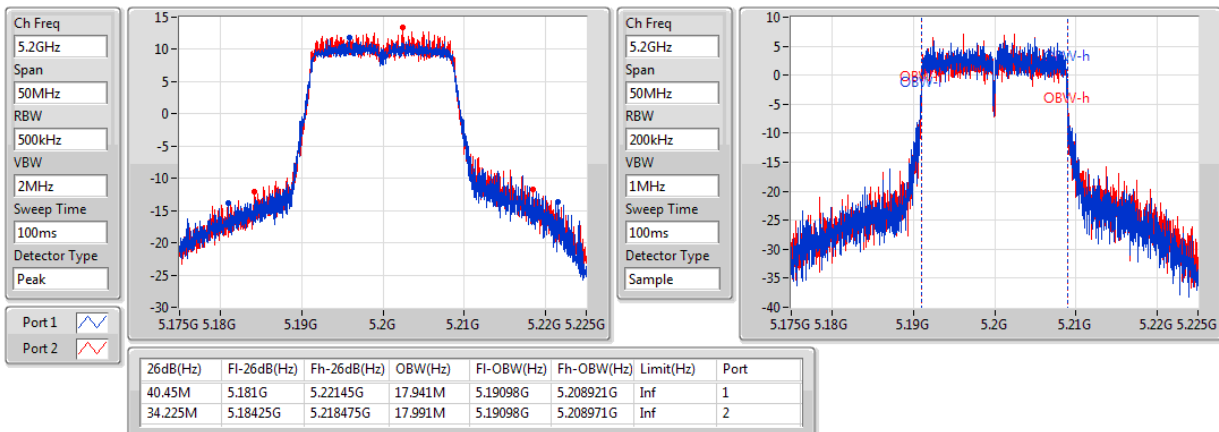
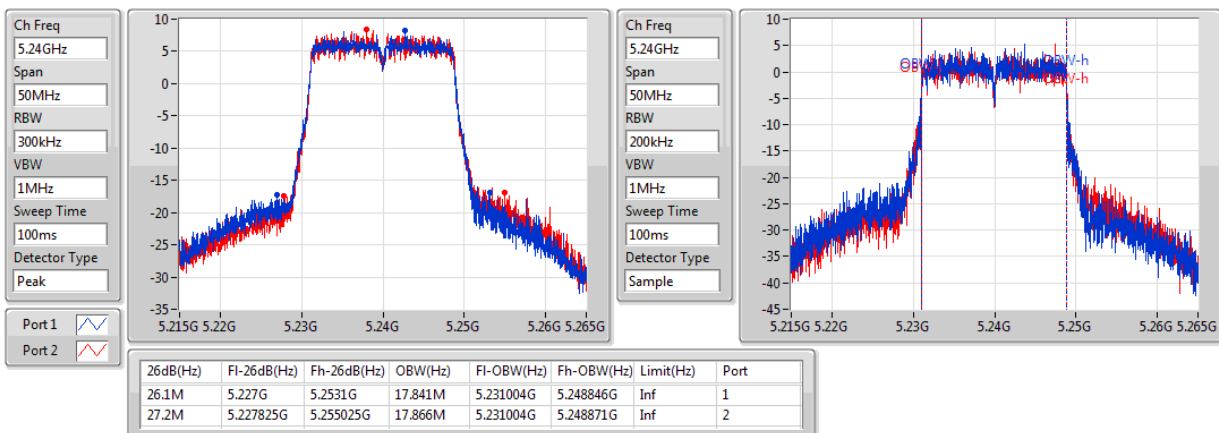
**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

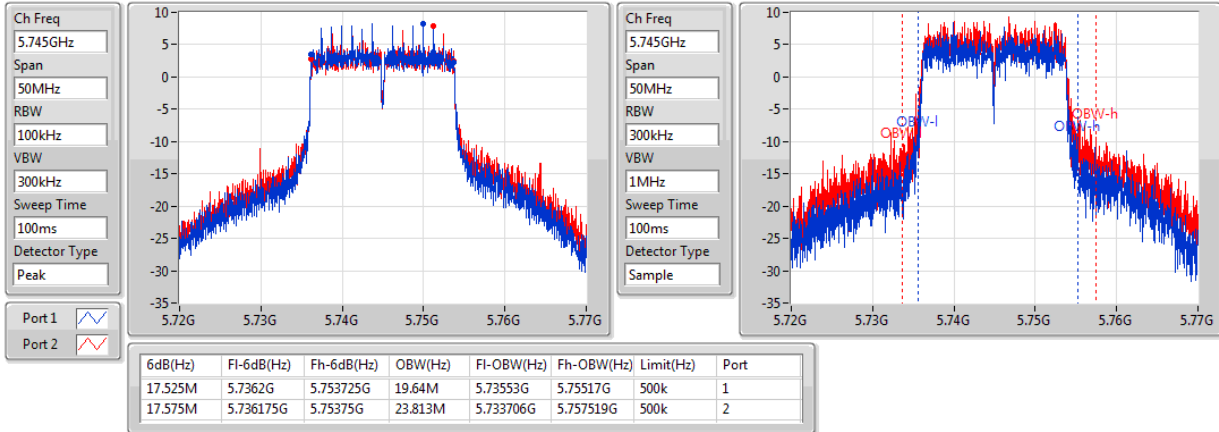
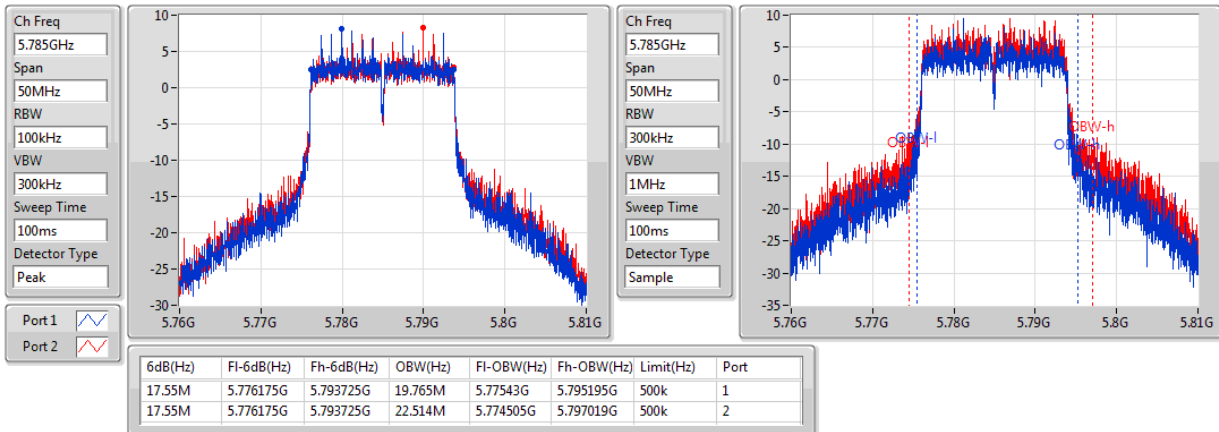
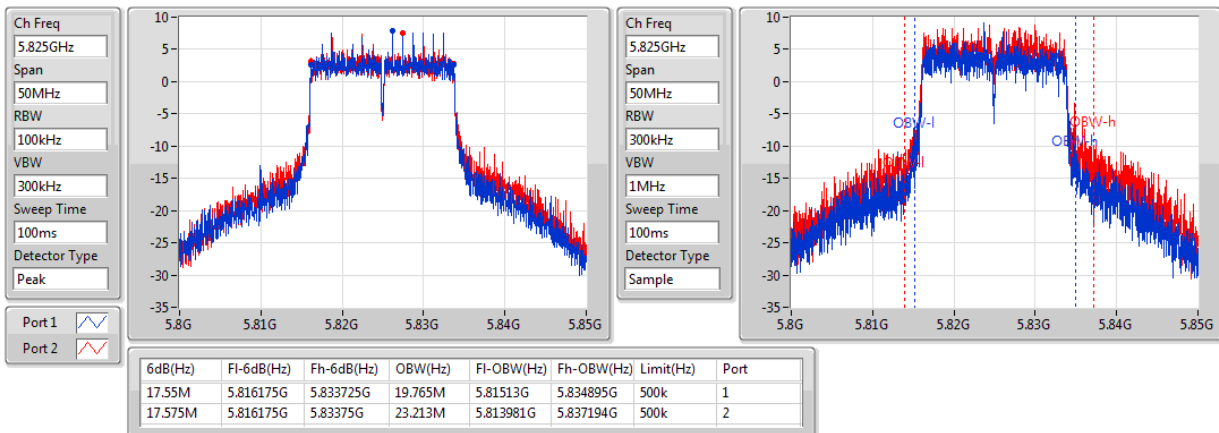
**Port X-OBW** = Port X 99% occupied bandwidth;

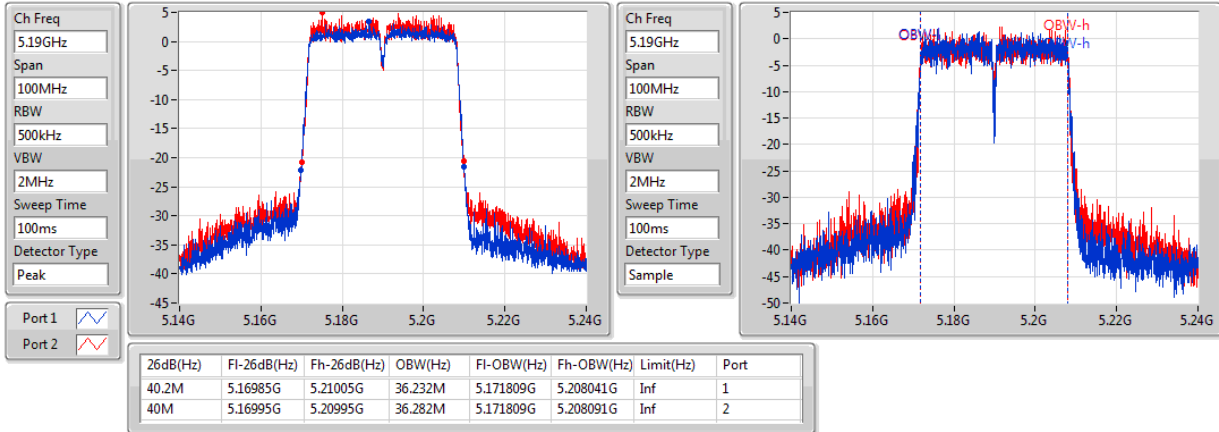
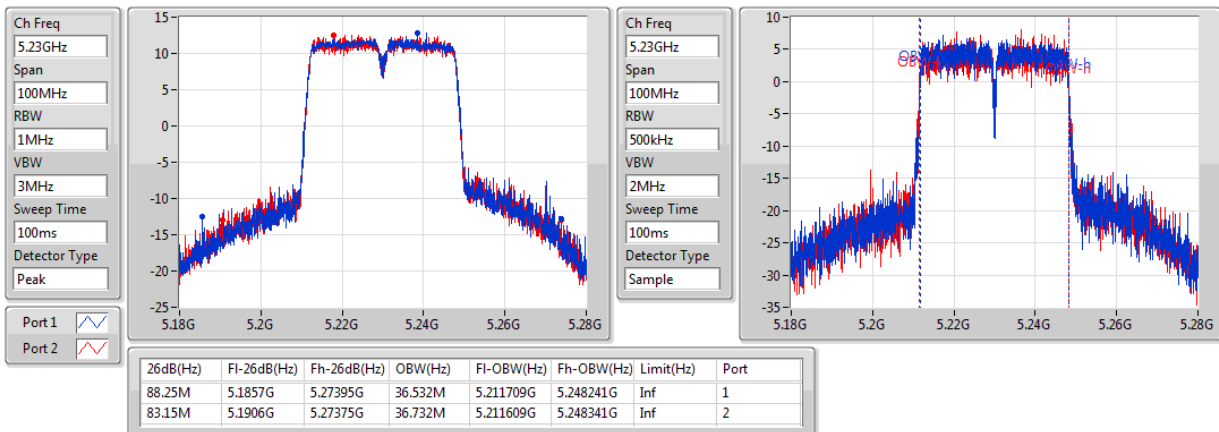
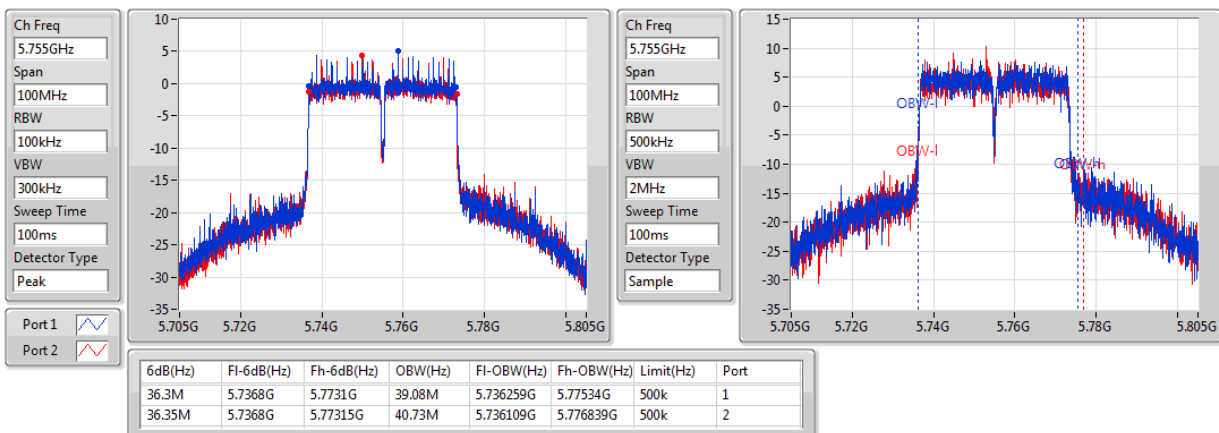
**802.11a\_(6Mbps)\_2TX**
**EBW**
**5180MHz**

**802.11a\_(6Mbps)\_2TX**
**EBW**
**5200MHz**

**802.11a\_(6Mbps)\_2TX**
**EBW**
**5240MHz**


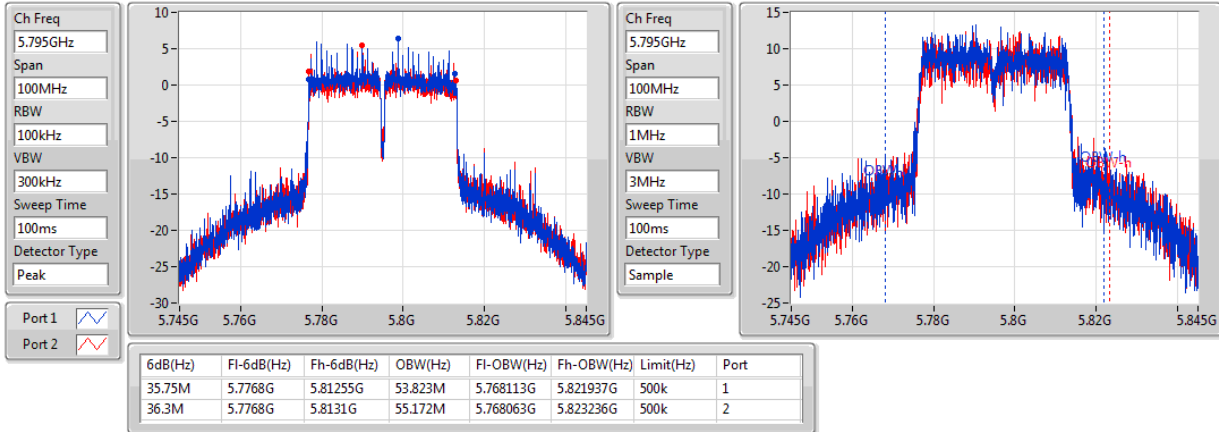
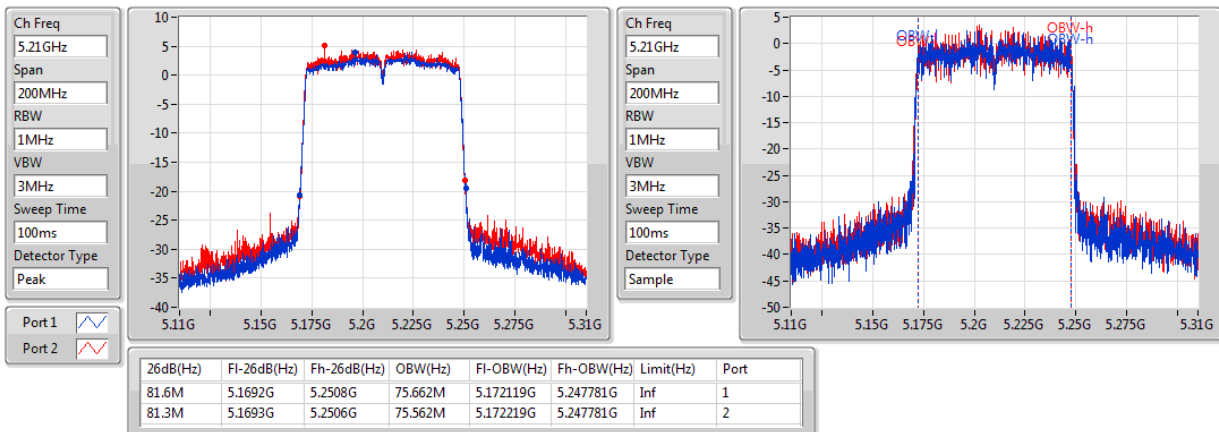
**802.11a\_(6Mbps)\_2TX**
**EBW**
**5745MHz**

**802.11a\_(6Mbps)\_2TX**
**EBW**
**5785MHz**

**802.11a\_(6Mbps)\_2TX**
**EBW**
**5825MHz**




**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5180MHz**

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5200MHz**

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5240MHz**


**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5745MHz**

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5785MHz**

**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**EBW**
**5825MHz**


**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5190MHz**

**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5230MHz**

**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5755MHz**


**802.11ac VHT40\_Nss1,(MCS0)\_2TX**
**EBW**
**5795MHz**

**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5210MHz**

**802.11ac VHT80\_Nss1,(MCS0)\_2TX**
**EBW**
**5775MHz**


**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11a_(6Mbps)_2TX	-	-	-	-
5.15-5.25GHz	20.75	0.11885	24.75	0.29854
5.725-5.85GHz	21.85	0.15311	25.85	0.38459
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-
5.15-5.25GHz	20.57	0.11402	24.57	0.28642
5.725-5.85GHz	21.77	0.15031	25.77	0.37757
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-
5.15-5.25GHz	20.75	0.11885	24.75	0.29854
5.725-5.85GHz	22.15	0.16406	26.15	0.41210
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-
5.15-5.25GHz	15.40	0.03467	19.40	0.08710
5.725-5.85GHz	19.63	0.09183	23.63	0.23067

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	4.00	15.74	15.66	18.71	30.00	22.71	36.00
5200MHz_TnomVnom	Pass	4.00	17.13	16.80	19.98	30.00	23.98	36.00
5240MHz_TnomVnom	Pass	4.00	17.95	17.52	20.75	30.00	24.75	36.00
5745MHz_TnomVnom	Pass	4.00	18.93	18.74	21.85	30.00	25.85	36.00
5785MHz_TnomVnom	Pass	4.00	18.54	18.31	21.44	30.00	25.44	36.00
5825MHz_TnomVnom	Pass	4.00	18.52	18.24	21.39	30.00	25.39	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	4.00	16.21	15.97	19.11	30.00	23.11	36.00
5200MHz_TnomVnom	Pass	4.00	17.78	17.32	20.57	30.00	24.57	36.00
5240MHz_TnomVnom	Pass	4.00	16.20	15.88	19.05	30.00	23.05	36.00
5745MHz_TnomVnom	Pass	4.00	18.86	18.66	21.77	30.00	25.77	36.00
5785MHz_TnomVnom	Pass	4.00	18.52	18.28	21.41	30.00	25.41	36.00
5825MHz_TnomVnom	Pass	4.00	18.47	18.22	21.36	30.00	25.36	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	4.00	12.25	12.22	15.24	30.00	19.24	36.00
5230MHz_TnomVnom	Pass	4.00	17.97	17.49	20.75	30.00	24.75	36.00
5755MHz_TnomVnom	Pass	4.00	18.36	17.99	21.19	30.00	25.19	36.00
5795MHz_TnomVnom	Pass	4.00	19.37	18.90	22.15	30.00	26.15	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	4.00	12.27	12.51	15.40	30.00	19.40	36.00
5775MHz_TnomVnom	Pass	4.00	16.48	16.76	19.63	30.00	23.63	36.00

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

**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
802.11a_(6Mbps)_2TX	-	-
5.15-5.25GHz	8.52	15.41
5.725-5.85GHz	8.08	14.98
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-
5.15-5.25GHz	8.20	15.10
5.725-5.85GHz	7.75	14.64
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-
5.15-5.25GHz	4.89	11.79
5.725-5.85GHz	4.76	11.66
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-
5.15-5.25GHz	-3.48	3.42
5.725-5.85GHz	-0.33	6.56

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

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	6.90	3.74	3.61	6.43	16.10	13.33	Inf
5200MHz_TnomVnom	Pass	6.90	5.25	4.81	7.65	16.10	14.55	Inf
5240MHz_TnomVnom	Pass	6.90	5.97	5.50	8.52	16.10	15.41	Inf
5745MHz_TnomVnom	Pass	6.90	5.25	5.31	8.08	29.10	14.98	Inf
5785MHz_TnomVnom	Pass	6.90	5.05	4.92	7.76	29.10	14.66	Inf
5825MHz_TnomVnom	Pass	6.90	4.97	4.47	7.60	29.10	14.50	Inf
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	6.90	4.02	3.66	6.50	16.10	13.39	Inf
5200MHz_TnomVnom	Pass	6.90	5.45	5.06	8.20	16.10	15.10	Inf
5240MHz_TnomVnom	Pass	6.90	3.96	3.48	6.62	16.10	13.52	Inf
5745MHz_TnomVnom	Pass	6.90	4.99	4.93	7.75	29.10	14.64	Inf
5785MHz_TnomVnom	Pass	6.90	4.92	4.45	7.39	29.10	14.28	Inf
5825MHz_TnomVnom	Pass	6.90	4.67	4.38	7.41	29.10	14.31	Inf
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	6.90	-3.91	-3.82	-0.90	16.10	5.99	Inf
5230MHz_TnomVnom	Pass	6.90	2.18	1.60	4.89	16.10	11.79	Inf
5755MHz_TnomVnom	Pass	6.90	1.07	0.69	3.88	29.10	10.78	Inf
5795MHz_TnomVnom	Pass	6.90	1.99	1.56	4.76	29.10	11.66	Inf
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	6.90	-6.58	-6.33	-3.48	16.10	3.42	Inf
5775MHz_TnomVnom	Pass	6.90	-3.43	-3.26	-0.33	29.10	6.56	Inf

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

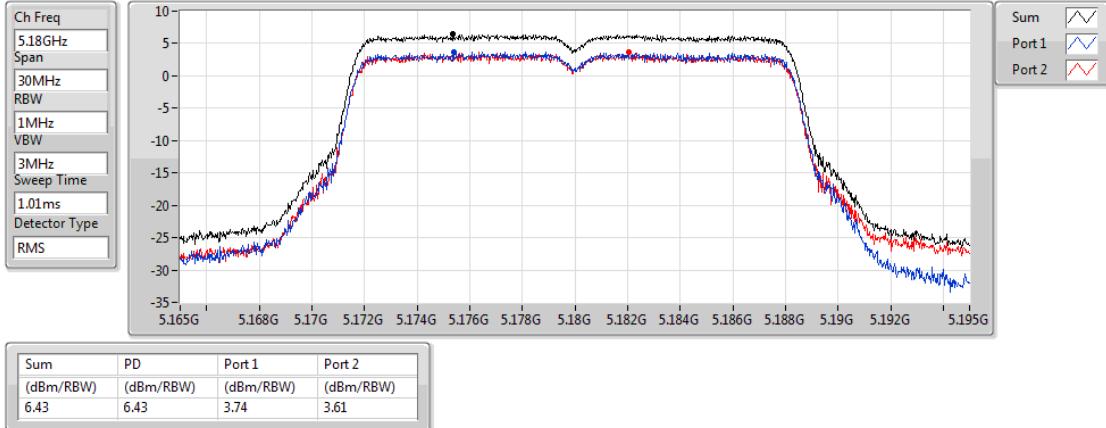
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;



### 802.11a\_(6Mbps)\_2TX

PSD

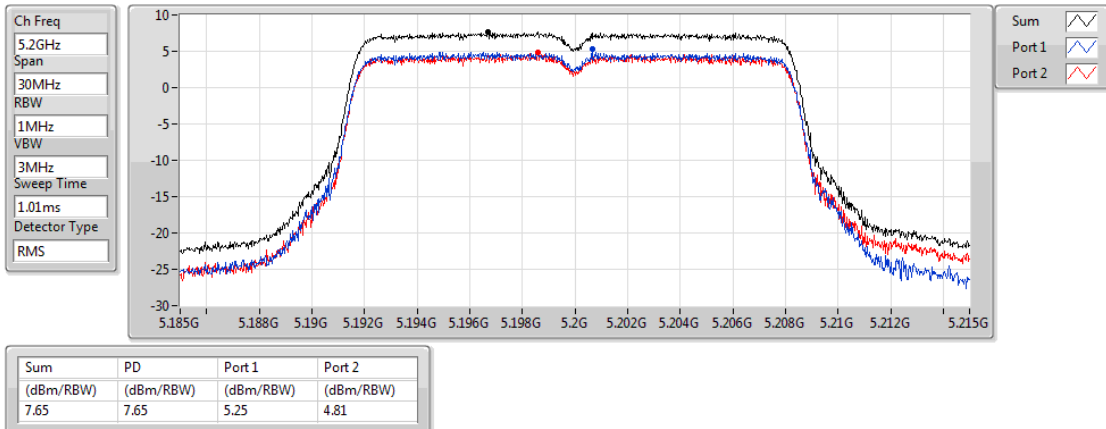
5180MHz



### 802.11a\_(6Mbps)\_2TX

PSD

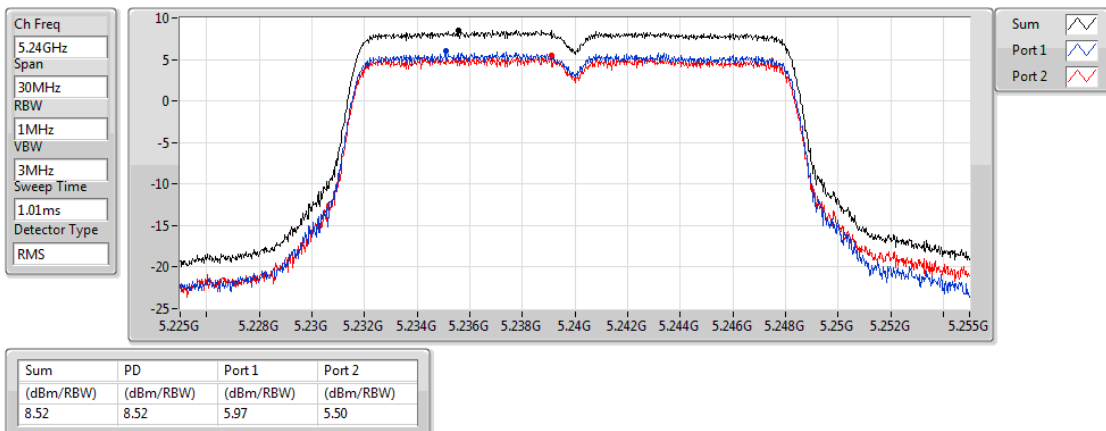
5200MHz



### 802.11a\_(6Mbps)\_2TX

PSD

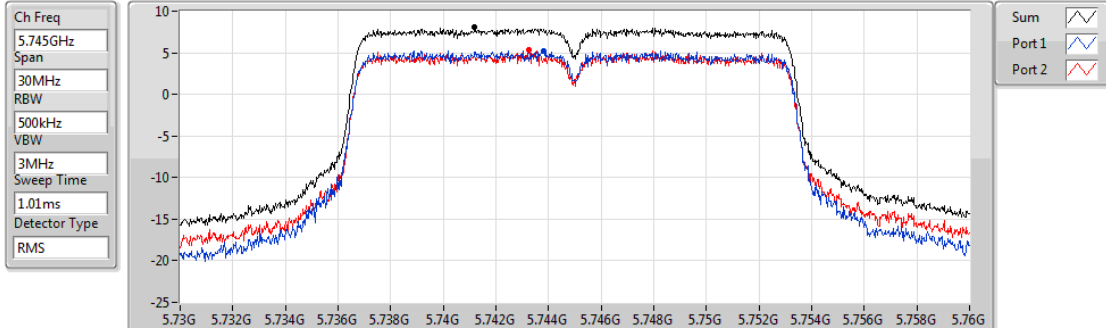
5240MHz



### 802.11a\_(6Mbps)\_2TX

PSD

5745MHz

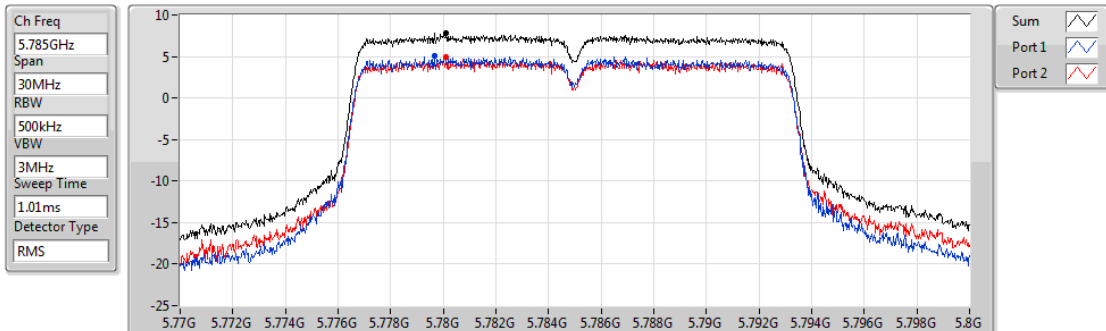


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.08	8.08	5.25	5.31

### 802.11a\_(6Mbps)\_2TX

PSD

5785MHz

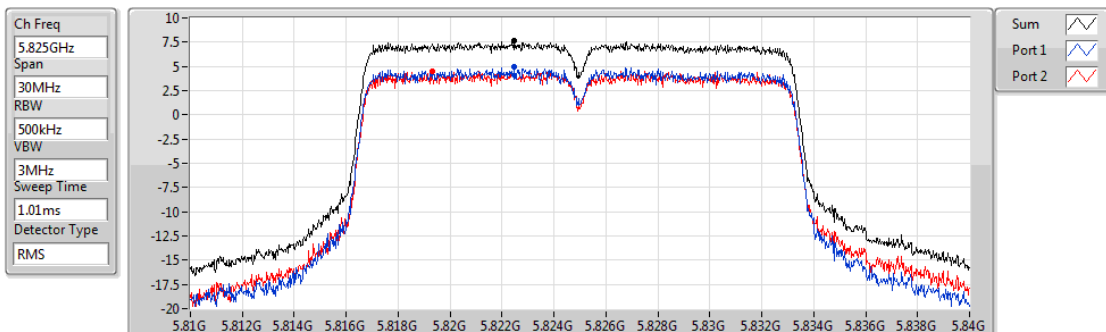


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.76	7.76	5.05	4.92

### 802.11a\_(6Mbps)\_2TX

PSD

5825MHz

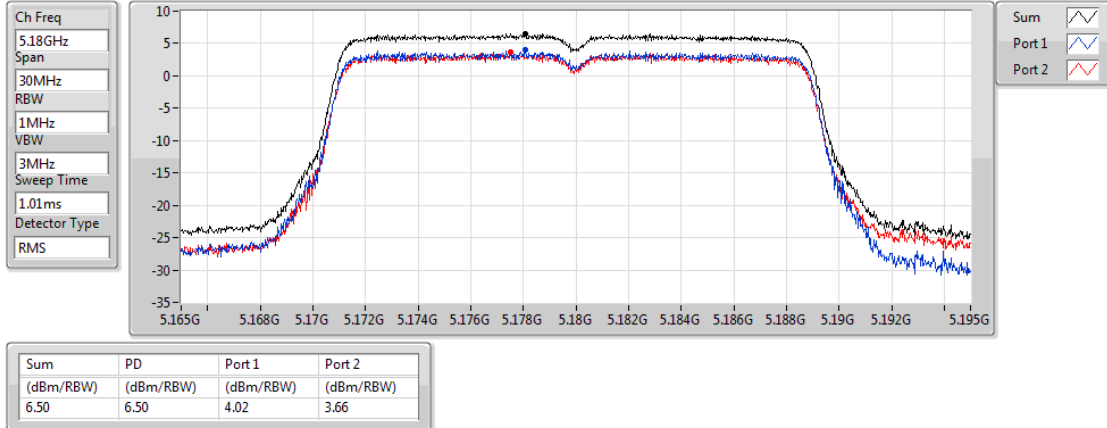


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.60	7.60	4.97	4.47

### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

PSD

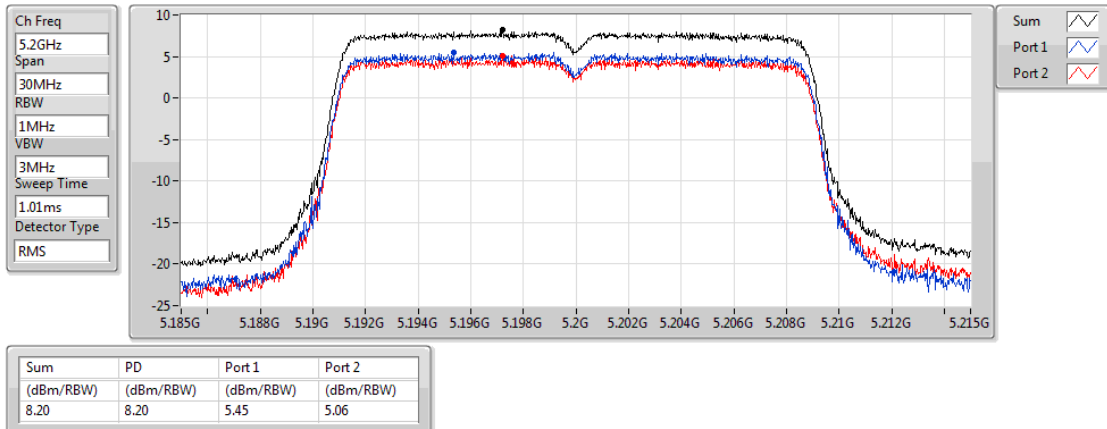
5180MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

PSD

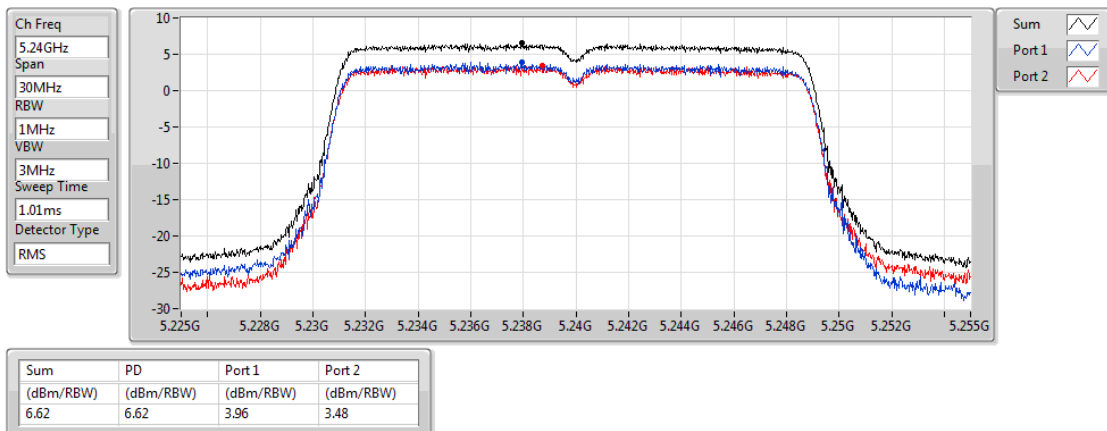
5200MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

PSD

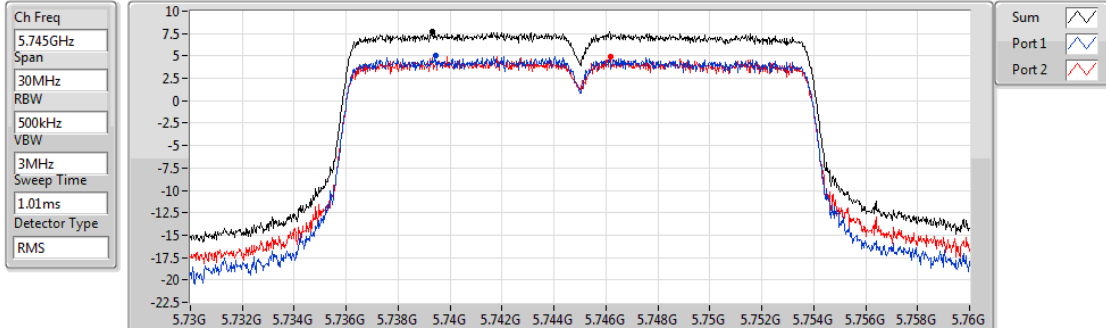
5240MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

PSD

5745MHz

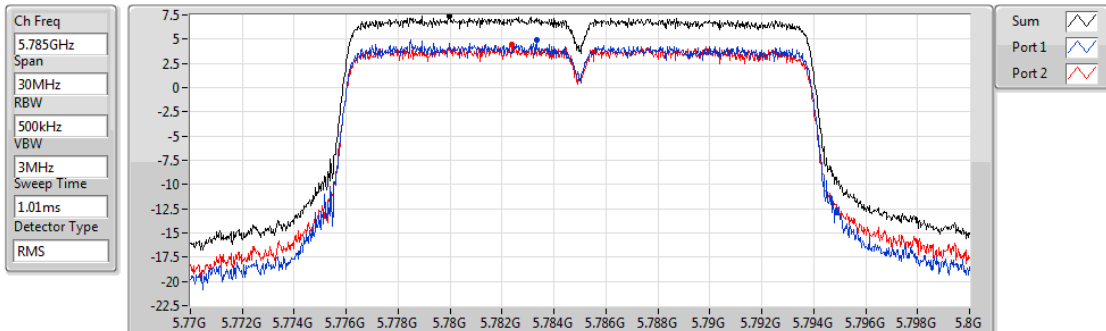


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.75	7.75	4.99	4.93

### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

PSD

5785MHz

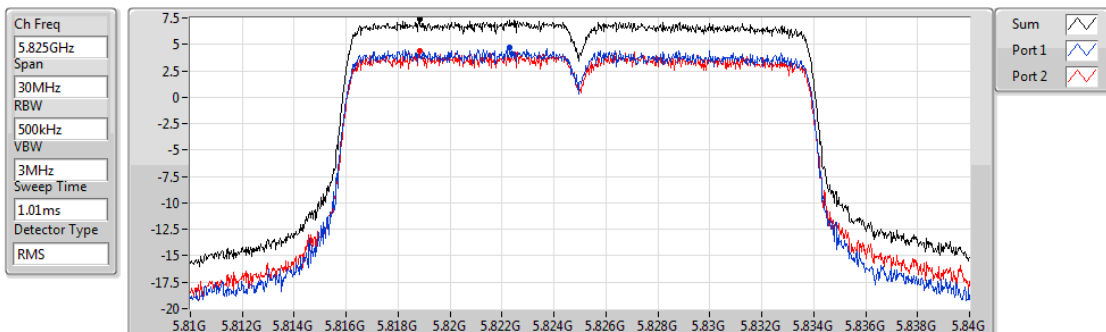


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.39	7.39	4.92	4.45

### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

PSD

5825MHz

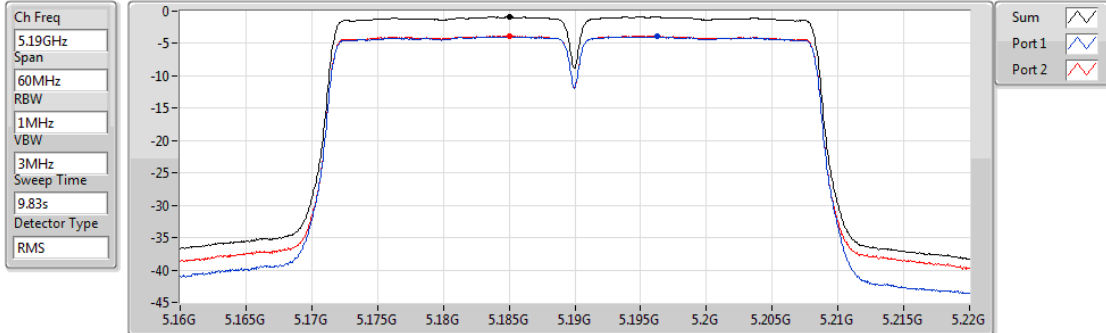


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.41	7.41	4.67	4.38

### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

PSD

5190MHz

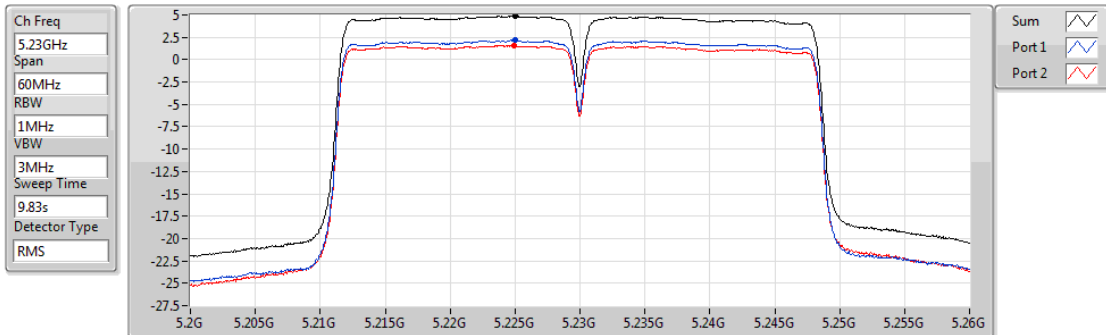


Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-0.90	-0.90	-3.91	-3.82

### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

PSD

5230MHz

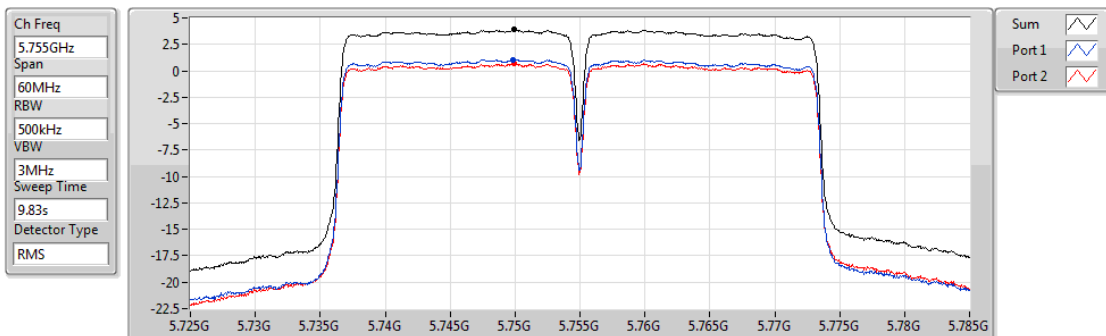


Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
4.89	4.89	2.18	1.60

### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

PSD

5755MHz

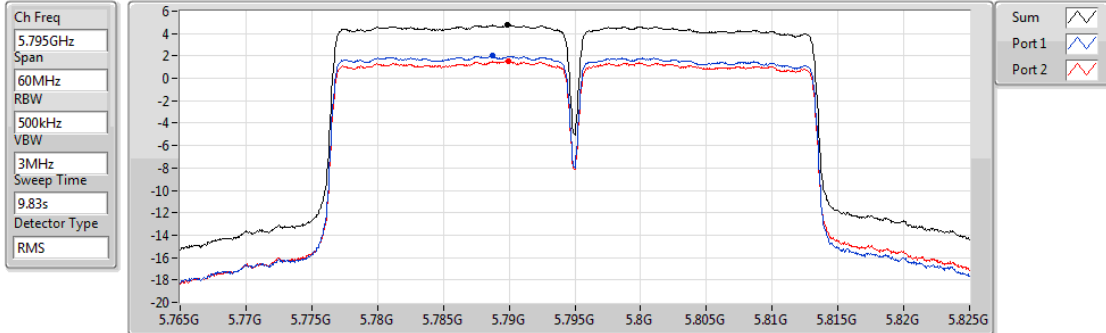


Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
3.88	3.88	1.07	0.69

### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

PSD

5795MHz

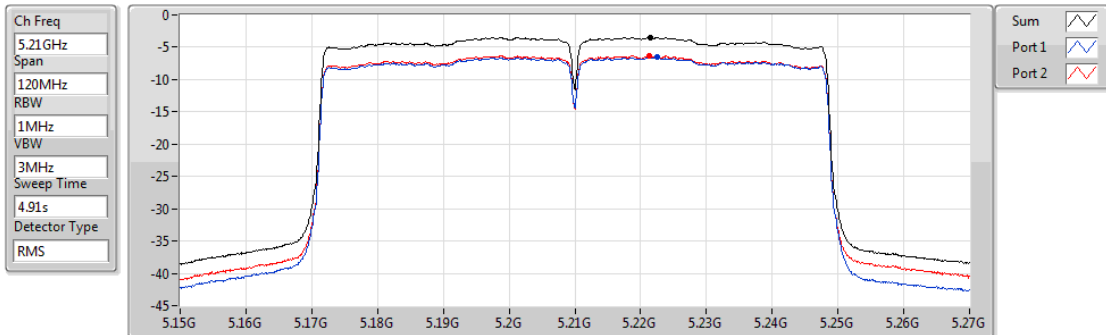


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.76	4.76	1.99	1.56

### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

PSD

5210MHz

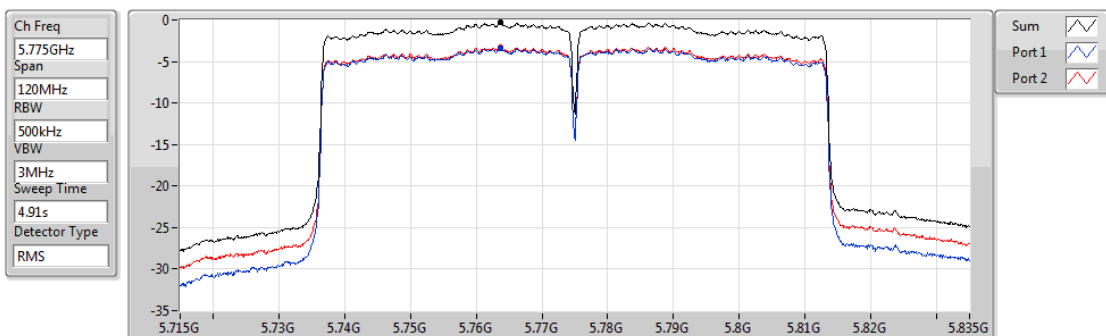


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.48	-3.48	-6.58	-6.33

### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

PSD

5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.33	-0.33	-3.43	-3.26

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5.725-5.85GHz	Pass	QP	35.82M	36.34	40.00	-3.66	-16.20	3	V	63	1.00	-

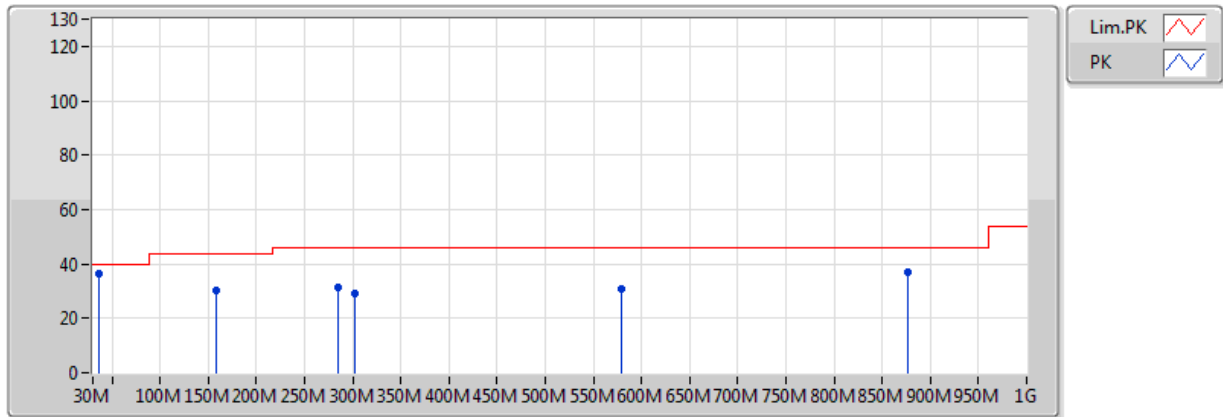
**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	183.26M	35.38	43.50	-8.12	-20.38	3	H	360	2.00	-
5775MHz	Pass	PK	278.32M	35.05	46.00	-10.95	-15.86	3	H	360	2.00	-
5775MHz	Pass	PK	284.14M	35.71	46.00	-10.29	-15.81	3	H	360	2.00	-
5775MHz	Pass	PK	553.8M	33.35	46.00	-12.65	-8.59	3	H	360	2.00	-
5775MHz	Pass	PK	565.44M	34.68	46.00	-11.32	-8.21	3	H	360	2.00	-
5775MHz	Pass	PK	875.84M	41.85	46.00	-4.15	-4.90	3	H	360	2.00	-
5775MHz	Pass	PK	158.04M	30.25	43.50	-13.25	-18.87	3	V	0	1.00	-
5775MHz	Pass	PK	284.14M	31.30	46.00	-14.70	-15.81	3	V	0	1.00	-
5775MHz	Pass	PK	301.6M	29.19	46.00	-16.81	-15.29	3	V	0	1.00	-
5775MHz	Pass	PK	579.02M	30.55	46.00	-15.45	-8.55	3	V	0	1.00	-
5775MHz	Pass	PK	875.84M	36.79	46.00	-9.21	-4.90	3	V	0	1.00	-
5775MHz	Pass	QP	35.82M	36.34	40.00	-3.66	-16.20	3	V	63	1.00	-



## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

### 5775MHz\_Adapter

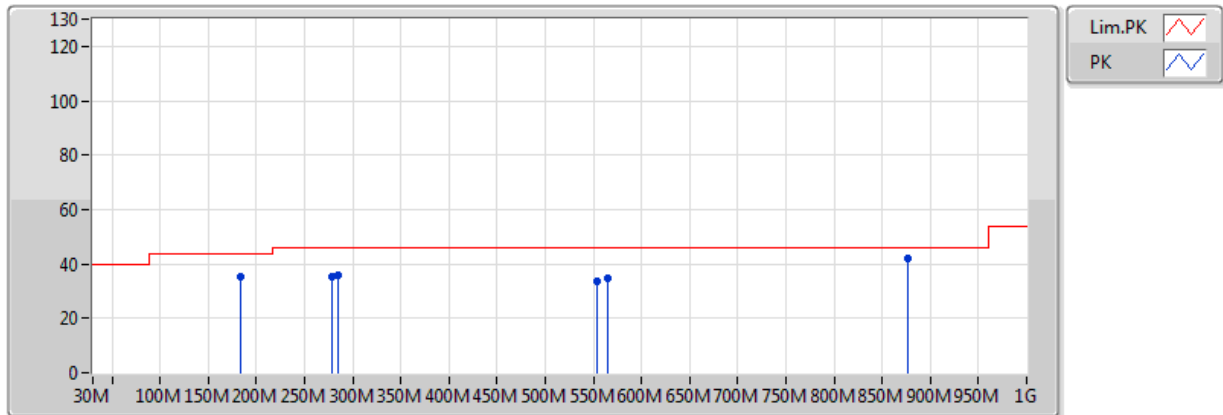


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	158.04M	30.25	43.50	-13.25	-18.87	3	V	0	1.00	-
PK	284.14M	31.30	46.00	-14.70	-15.81	3	V	0	1.00	-
PK	301.6M	29.19	46.00	-16.81	-15.29	3	V	0	1.00	-
PK	579.02M	30.55	46.00	-15.45	-8.55	3	V	0	1.00	-
PK	875.84M	36.79	46.00	-9.21	-4.90	3	V	0	1.00	-
QP	35.82M	36.34	40.00	-3.66	-16.20	3	V	63	1.00	-

## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

### 5775MHz\_Adapter



Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	183.26M	35.38	43.50	-8.12	-20.38	3	H	360	2.00	-
PK	278.32M	35.05	46.00	-10.95	-15.86	3	H	360	2.00	-
PK	284.14M	35.71	46.00	-10.29	-15.81	3	H	360	2.00	-
PK	553.8M	33.35	46.00	-12.65	-8.59	3	H	360	2.00	-
PK	565.44M	34.68	46.00	-11.32	-8.21	3	H	360	2.00	-
PK	875.84M	41.85	46.00	-4.15	-4.90	3	H	360	2.00	-

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11a_(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5.15-5.25GHz	Pass	AV	5.1498G	53.89	54.00	-0.11	2.88	3	H	189	1.02	-
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5.725-5.85GHz	Pass	PK	5.649G	67.92	68.20	-0.28	3.41	3	H	263	1.00	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11a_(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1498G	53.89	54.00	-0.11	2.88	3	H	189	1.02	-
5180MHz	Pass	AV	5.1822G	99.42	Inf	-Inf	2.92	3	H	189	1.02	-
5180MHz	Pass	PK	5.1482G	69.44	74.00	-4.56	2.88	3	H	189	1.02	-
5180MHz	Pass	PK	5.1822G	107.85	Inf	-Inf	2.92	3	H	189	1.02	-
5180MHz	Pass	AV	5.1498G	48.24	54.00	-5.76	2.88	3	V	159	2.85	-
5180MHz	Pass	AV	5.1744G	92.53	Inf	-Inf	2.91	3	V	159	2.85	-
5180MHz	Pass	PK	5.1498G	63.11	74.00	-10.89	2.88	3	V	159	2.85	-
5180MHz	Pass	PK	5.179G	99.59	Inf	-Inf	2.92	3	V	159	2.85	-
5180MHz	Pass	AV	10.36G	52.76	54.00	-1.24	12.86	3	H	117	1.93	-
5180MHz	Pass	AV	15.54G	50.56	54.00	-3.44	14.75	3	H	199	1.70	-
5180MHz	Pass	PK	10.36G	64.26	74.00	-9.74	12.86	3	H	117	1.93	-
5180MHz	Pass	PK	15.54G	64.04	74.00	-9.96	14.75	3	H	199	1.70	-
5180MHz	Pass	AV	10.36G	46.88	54.00	-7.12	12.86	3	V	107	1.01	-
5180MHz	Pass	AV	15.54G	48.08	54.00	-5.92	14.75	3	V	115	2.98	-
5180MHz	Pass	PK	10.36G	58.81	74.00	-15.19	12.86	3	V	107	1.01	-
5180MHz	Pass	PK	15.54G	61.24	74.00	-12.76	14.75	3	V	115	2.98	-
5200MHz	Pass	AV	5.1492G	53.35	54.00	-0.65	2.88	3	H	125	2.22	-
5200MHz	Pass	AV	5.1956G	101.12	Inf	-Inf	2.94	3	H	125	2.22	-
5200MHz	Pass	PK	5.1452G	66.31	74.00	-7.69	2.88	3	H	125	2.22	-
5200MHz	Pass	PK	5.196G	108.94	Inf	-Inf	2.94	3	H	125	2.22	-
5200MHz	Pass	AV	5.1492G	47.37	54.00	-6.63	2.88	3	V	179	3.49	-
5200MHz	Pass	AV	5.2068G	97.38	Inf	-Inf	2.95	3	V	179	3.49	-
5200MHz	Pass	PK	5.1308G	57.81	74.00	-16.19	2.86	3	V	179	3.49	-
5200MHz	Pass	PK	5.2064G	104.22	Inf	-Inf	2.95	3	V	179	3.49	-
5200MHz	Pass	AV	10.4G	53.22	54.00	-0.78	12.97	3	H	316	1.88	-
5200MHz	Pass	AV	15.6G	52.72	54.00	-1.28	14.53	3	H	219	1.78	-
5200MHz	Pass	PK	10.4G	66.33	68.20	-1.87	12.97	3	H	316	1.88	-
5200MHz	Pass	PK	15.6G	65.72	74.00	-8.28	14.53	3	H	219	1.78	-
5200MHz	Pass	AV	10.4G	49.85	54.00	-4.15	12.97	3	V	269	3.64	-
5200MHz	Pass	AV	15.6G	49.67	54.00	-4.33	14.53	3	V	129	3.40	-
5200MHz	Pass	PK	10.4G	61.03	74.00	-12.97	12.97	3	V	269	3.64	-
5200MHz	Pass	PK	15.6G	61.06	74.00	-12.94	14.53	3	V	129	3.40	-
5240MHz	Pass	AV	5.1488G	46.83	54.00	-7.17	2.88	3	H	29	2.17	-
5240MHz	Pass	AV	5.2352G	100.43	Inf	-Inf	2.98	3	H	29	2.17	-
5240MHz	Pass	AV	5.36G	45.72	54.00	-8.28	3.12	3	H	29	2.17	-
5240MHz	Pass	PK	5.135G	58.18	74.00	-15.82	2.87	3	H	29	2.17	-
5240MHz	Pass	PK	5.2442G	108.52	Inf	-Inf	2.99	3	H	29	2.17	-
5240MHz	Pass	PK	5.3678G	56.70	74.00	-17.30	3.12	3	H	29	2.17	-
5240MHz	Pass	AV	5.1236G	46.35	54.00	-7.65	2.86	3	V	298	3.67	-
5240MHz	Pass	AV	5.2382G	97.53	Inf	-Inf	2.98	3	V	298	3.67	-
5240MHz	Pass	AV	5.3576G	45.64	54.00	-8.36	3.11	3	V	298	3.67	-
5240MHz	Pass	PK	5.1026G	58.00	74.00	-16.00	2.83	3	V	298	3.67	-
5240MHz	Pass	PK	5.2382G	105.30	Inf	-Inf	2.98	3	V	298	3.67	-
5240MHz	Pass	PK	5.3558G	58.11	74.00	-15.89	3.11	3	V	298	3.67	-
5240MHz	Pass	AV	10.48G	52.41	54.00	-1.59	13.17	3	H	313	1.73	-
5240MHz	Pass	AV	15.72G	53.50	54.00	-0.50	14.11	3	H	39	1.78	-
5240MHz	Pass	PK	10.48G	64.55	74.00	-9.45	13.17	3	H	313	1.73	-



## RSE TX above 1GHz Result

## Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5240MHz	Pass	PK	15.72G	66.30	74.00	-7.70	14.11	3	H	39	1.78	-
5240MHz	Pass	AV	10.48G	52.23	54.00	-1.77	13.17	3	V	273	3.58	-
5240MHz	Pass	AV	15.72G	48.56	54.00	-5.44	14.11	3	V	33	1.02	-
5240MHz	Pass	PK	10.48G	64.09	74.00	-9.91	13.17	3	V	273	3.58	-
5240MHz	Pass	PK	15.72G	60.45	74.00	-13.55	14.11	3	V	33	1.02	-
5745MHz	Pass	AV	5.7438G	100.84	Inf	-Inf	3.50	3	H	249	2.20	-
5745MHz	Pass	PK	5.6418G	57.72	68.20	-10.48	3.41	3	H	249	2.20	-
5745MHz	Pass	PK	5.7438G	108.65	Inf	-Inf	3.50	3	H	249	2.20	-
5745MHz	Pass	PK	5.9754G	57.25	68.20	-10.95	3.70	3	H	249	2.20	-
5745MHz	Pass	AV	5.7498G	96.78	Inf	-Inf	3.50	3	V	302	3.69	-
5745MHz	Pass	PK	5.5926G	58.16	68.20	-10.04	3.36	3	V	302	3.69	-
5745MHz	Pass	PK	5.7402G	104.15	Inf	-Inf	3.49	3	V	302	3.69	-
5745MHz	Pass	PK	5.9406G	57.63	68.20	-10.57	3.67	3	V	302	3.69	-
5745MHz	Pass	AV	11.49G	52.26	54.00	-1.74	13.75	3	H	298	1.82	-
5745MHz	Pass	AV	17.235G	52.59	54.00	-1.41	18.16	3	H	20	1.78	-
5745MHz	Pass	PK	11.49G	64.12	74.00	-9.88	13.75	3	H	298	1.82	-
5745MHz	Pass	PK	17.235G	65.29	74.00	-8.71	18.16	3	H	20	1.78	-
5745MHz	Pass	AV	11.49G	45.51	54.00	-8.49	13.75	3	V	334	1.93	-
5745MHz	Pass	AV	17.235G	53.57	54.00	-0.43	18.16	3	V	324	1.64	-
5745MHz	Pass	PK	11.49G	57.08	74.00	-16.92	13.75	3	V	334	1.93	-
5745MHz	Pass	PK	17.235G	66.66	74.00	-7.34	18.16	3	V	324	1.64	-
5785MHz	Pass	AV	5.7826G	100.20	Inf	-Inf	3.53	3	H	257	2.15	-
5785MHz	Pass	PK	5.599G	57.98	68.20	-10.22	3.37	3	H	257	2.15	-
5785MHz	Pass	PK	5.7826G	108.64	Inf	-Inf	3.53	3	H	257	2.15	-
5785MHz	Pass	PK	5.9614G	57.76	68.20	-10.44	3.69	3	H	257	2.15	-
5785MHz	Pass	AV	5.7826G	96.61	Inf	-Inf	3.53	3	V	306	3.64	-
5785MHz	Pass	PK	5.5966G	57.15	68.20	-11.05	3.37	3	V	306	3.64	-
5785MHz	Pass	PK	5.7874G	104.37	Inf	-Inf	3.53	3	V	306	3.64	-
5785MHz	Pass	PK	5.9722G	57.18	68.20	-11.02	3.69	3	V	306	3.64	-
5785MHz	Pass	AV	11.57G	52.86	54.00	-1.14	13.63	3	H	302	1.02	-
5785MHz	Pass	PK	11.57G	64.24	74.00	-9.76	13.63	3	H	302	1.02	-
5785MHz	Pass	AV	11.57G	51.30	54.00	-2.70	13.63	3	V	70	3.57	-
5785MHz	Pass	PK	11.57G	62.79	74.00	-11.21	13.63	3	V	70	3.57	-
5825MHz	Pass	AV	5.8286G	99.05	Inf	-Inf	3.57	3	H	259	2.24	-
5825MHz	Pass	PK	5.5946G	58.15	68.20	-10.05	3.37	3	H	259	2.24	-
5825MHz	Pass	PK	5.8238G	107.30	Inf	-Inf	3.56	3	H	259	2.24	-
5825MHz	Pass	PK	5.9306G	57.78	68.20	-10.42	3.66	3	H	259	2.24	-
5825MHz	Pass	AV	5.8214G	93.61	Inf	-Inf	3.56	3	V	282	3.60	-
5825MHz	Pass	PK	5.5922G	58.27	68.20	-9.93	3.36	3	V	282	3.60	-
5825MHz	Pass	PK	5.8214G	102.24	Inf	-Inf	3.56	3	V	282	3.60	-
5825MHz	Pass	PK	5.9642G	57.85	68.20	-10.35	3.69	3	V	282	3.60	-
5825MHz	Pass	AV	11.65G	53.47	54.00	-0.53	13.50	3	H	306	1.00	-
5825MHz	Pass	PK	11.65G	64.84	74.00	-9.16	13.50	3	H	306	1.00	-
5825MHz	Pass	AV	11.65G	51.88	54.00	-2.12	13.50	3	V	80	3.28	-
5825MHz	Pass	PK	11.65G	63.49	74.00	-10.51	13.50	3	V	80	3.28	-
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.14984G	53.78	54.00	-0.22	2.88	3	H	258	2.08	-
5180MHz	Pass	AV	5.181872G	98.06	Inf	-Inf	2.92	3	H	258	2.08	-
5180MHz	Pass	PK	5.149424G	72.14	74.00	-1.86	2.88	3	H	258	2.08	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5180MHz	Pass	PK	5.185408G	106.34	Inf	-Inf	2.92	3	H	258	2.08	-
5180MHz	Pass	AV	5.1496G	49.70	54.00	-4.30	2.88	3	V	200	3.59	-
5180MHz	Pass	AV	5.1738G	90.76	Inf	-Inf	2.91	3	V	200	3.59	-
5180MHz	Pass	PK	5.1496G	65.84	74.00	-8.16	2.88	3	V	200	3.59	-
5180MHz	Pass	PK	5.174G	98.52	Inf	-Inf	2.91	3	V	200	3.59	-
5180MHz	Pass	AV	10.36G	52.18	54.00	-1.82	12.86	3	H	296	1.88	-
5180MHz	Pass	PK	10.36G	63.99	74.00	-10.01	12.86	3	H	296	1.88	-
5180MHz	Pass	AV	10.36G	45.65	54.00	-8.35	12.86	3	V	310	1.95	-
5180MHz	Pass	PK	10.36G	57.22	74.00	-16.78	12.86	3	V	310	1.95	-
5200MHz	Pass	AV	5.1496G	53.00	54.00	-1.00	2.88	3	H	341	1.12	-
5200MHz	Pass	AV	5.1964G	99.94	Inf	-Inf	2.94	3	H	341	1.12	-
5200MHz	Pass	PK	5.1492G	68.08	74.00	-5.92	2.88	3	H	341	1.12	-
5200MHz	Pass	PK	5.1988G	109.13	Inf	-Inf	2.94	3	H	341	1.12	-
5200MHz	Pass	AV	5.1488G	49.99	54.00	-4.01	2.88	3	V	216	3.69	-
5200MHz	Pass	AV	5.206G	92.23	Inf	-Inf	2.95	3	V	216	3.69	-
5200MHz	Pass	PK	5.1496G	63.25	74.00	-10.75	2.88	3	V	216	3.69	-
5200MHz	Pass	PK	5.2008G	100.21	Inf	-Inf	2.94	3	V	216	3.69	-
5200MHz	Pass	AV	10.4G	53.73	54.00	-0.27	12.97	3	H	300	1.00	-
5200MHz	Pass	PK	10.4G	65.52	74.00	-8.48	12.97	3	H	300	1.00	-
5200MHz	Pass	AV	10.4G	50.41	54.00	-3.59	12.97	3	V	74	3.51	-
5200MHz	Pass	PK	10.4G	61.80	74.00	-12.20	12.97	3	V	74	3.51	-
5240MHz	Pass	AV	5.1488G	46.20	54.00	-7.80	2.88	3	H	340	1.08	-
5240MHz	Pass	AV	5.2424G	98.32	Inf	-Inf	2.99	3	H	340	1.08	-
5240MHz	Pass	AV	5.357G	45.35	54.00	-8.65	3.11	3	H	340	1.08	-
5240MHz	Pass	PK	5.144G	56.70	74.00	-17.30	2.88	3	H	340	1.08	-
5240MHz	Pass	PK	5.2424G	106.83	Inf	-Inf	2.99	3	H	340	1.08	-
5240MHz	Pass	PK	5.3642G	55.70	74.00	-18.30	3.12	3	H	340	1.08	-
5240MHz	Pass	AV	5.1134G	46.03	54.00	-7.97	2.84	3	V	261	3.33	-
5240MHz	Pass	AV	5.2418G	90.74	Inf	-Inf	2.99	3	V	261	3.33	-
5240MHz	Pass	AV	5.3774G	45.20	54.00	-8.80	3.14	3	V	261	3.33	-
5240MHz	Pass	PK	5.1098G	56.27	74.00	-17.73	2.84	3	V	261	3.33	-
5240MHz	Pass	PK	5.2436G	99.12	Inf	-Inf	2.99	3	V	261	3.33	-
5240MHz	Pass	PK	5.3882G	56.13	74.00	-17.87	3.15	3	V	261	3.33	-
5240MHz	Pass	AV	10.48G	53.44	54.00	-0.56	13.17	3	H	60	1.09	-
5240MHz	Pass	PK	10.48G	63.11	74.00	-10.89	13.17	3	H	60	1.09	-
5240MHz	Pass	AV	10.48G	49.52	54.00	-4.48	13.17	3	V	92	3.32	-
5240MHz	Pass	PK	10.48G	61.37	74.00	-12.63	13.17	3	V	92	3.32	-
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.1488G	53.89	54.00	-0.11	2.88	3	H	271	1.02	-
5190MHz	Pass	AV	5.1856G	92.94	Inf	-Inf	2.92	3	H	271	1.02	-
5190MHz	Pass	PK	5.1464G	68.08	74.00	-5.92	2.88	3	H	271	1.02	-
5190MHz	Pass	PK	5.1836G	101.65	Inf	-Inf	2.92	3	H	271	1.02	-
5190MHz	Pass	AV	5.148G	47.74	54.00	-6.26	2.88	3	V	123	3.69	-
5190MHz	Pass	AV	5.1852G	86.04	Inf	-Inf	2.92	3	V	123	3.69	-
5190MHz	Pass	PK	5.1488G	58.61	74.00	-15.39	2.88	3	V	123	3.69	-
5190MHz	Pass	PK	5.1876G	94.28	Inf	-Inf	2.93	3	V	123	3.69	-
5190MHz	Pass	AV	10.38G	46.63	54.00	-7.37	12.91	3	H	305	1.01	-
5190MHz	Pass	PK	10.38G	57.99	74.00	-16.01	12.91	3	H	305	1.01	-
5190MHz	Pass	AV	10.38G	45.26	54.00	-8.74	12.91	3	V	64	3.33	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5190MHz	Pass	PK	10.38G	56.89	74.00	-17.11	12.91	3	V	64	3.33	-
5230MHz	Pass	AV	5.1496G	53.76	54.00	-0.24	2.88	3	H	269	1.01	-
5230MHz	Pass	AV	5.2356G	98.76	Inf	-Inf	2.98	3	H	269	1.01	-
5230MHz	Pass	PK	5.1464G	66.89	74.00	-7.11	2.88	3	H	269	1.01	-
5230MHz	Pass	PK	5.2244G	107.21	Inf	-Inf	2.97	3	H	269	1.01	-
5230MHz	Pass	AV	5.1424G	46.70	54.00	-7.30	2.88	3	V	110	3.59	-
5230MHz	Pass	AV	5.2348G	90.38	Inf	-Inf	2.98	3	V	110	3.59	-
5230MHz	Pass	PK	5.142G	58.22	74.00	-15.78	2.88	3	V	110	3.59	-
5230MHz	Pass	PK	5.2348G	98.77	Inf	-Inf	2.98	3	V	110	3.59	-
5230MHz	Pass	AV	10.46G	51.03	54.00	-2.93	13.12	3	H	299	1.00	-
5230MHz	Pass	PK	10.46G	62.96	74.00	-11.04	13.12	3	H	299	1.00	-
5230MHz	Pass	AV	10.46G	48.82	54.00	-5.18	13.12	3	V	68	3.57	-
5230MHz	Pass	PK	10.46G	60.00	74.00	-14.00	13.12	3	V	68	3.57	-
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.149G	53.74	54.00	-0.26	2.88	3	H	262	1.00	-
5210MHz	Pass	AV	5.222G	89.38	Inf	-Inf	2.96	3	H	262	1.00	-
5210MHz	Pass	AV	5.351G	46.92	54.00	-7.08	3.11	3	H	262	1.00	-
5210MHz	Pass	PK	5.141G	66.86	74.00	-7.14	2.88	3	H	262	1.00	-
5210MHz	Pass	PK	5.207G	98.20	Inf	-Inf	2.95	3	H	262	1.00	-
5210MHz	Pass	PK	5.381G	59.05	74.00	-14.95	3.14	3	H	262	1.00	-
5210MHz	Pass	AV	5.149G	48.14	54.00	-5.86	2.88	3	V	204	3.56	-
5210MHz	Pass	AV	5.204G	81.64	Inf	-Inf	2.94	3	V	204	3.56	-
5210MHz	Pass	AV	5.459G	45.56	54.00	-8.44	3.23	3	V	204	3.56	-
5210MHz	Pass	PK	5.146G	59.35	74.00	-14.65	2.88	3	V	204	3.56	-
5210MHz	Pass	PK	5.189G	90.49	Inf	-Inf	2.93	3	V	204	3.56	-
5210MHz	Pass	PK	5.384G	57.07	74.00	-16.93	3.14	3	V	204	3.56	-
5210MHz	Pass	AV	10.42G	45.36	54.00	-8.64	13.02	3	H	295	1.01	-
5210MHz	Pass	PK	10.42G	57.40	74.00	-16.60	13.02	3	H	295	1.01	-
5210MHz	Pass	AV	10.42G	44.53	54.00	-9.47	13.02	3	V	52	3.69	-
5210MHz	Pass	PK	10.42G	56.12	74.00	-17.88	13.02	3	V	52	3.69	-
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	AV	5.7498G	103.09	Inf	-Inf	3.50	3	H	259	1.01	-
5745MHz	Pass	PK	5.607G	58.27	68.20	-9.93	3.38	3	H	259	1.01	-
5745MHz	Pass	PK	5.751G	111.45	Inf	-Inf	3.50	3	H	259	1.01	-
5745MHz	Pass	PK	5.9262G	58.40	68.20	-9.80	3.65	3	H	259	1.01	-
5745MHz	Pass	AV	5.7414G	93.40	Inf	-Inf	3.49	3	V	162	3.69	-
5745MHz	Pass	PK	5.595G	57.67	68.20	-10.53	3.37	3	V	162	3.69	-
5745MHz	Pass	PK	5.7426G	101.89	Inf	-Inf	3.49	3	V	162	3.69	-
5745MHz	Pass	PK	5.9382G	57.70	68.20	-10.50	3.66	3	V	162	3.69	-
5745MHz	Pass	AV	11.49G	52.60	54.00	-1.40	13.75	3	H	299	1.00	-
5745MHz	Pass	PK	11.49G	64.43	74.00	-9.57	13.75	3	H	299	1.00	-
5745MHz	Pass	AV	11.49G	51.59	54.00	-2.41	13.75	3	V	75	3.45	-
5745MHz	Pass	PK	11.49G	63.72	74.00	-10.28	13.75	3	V	75	3.45	-
5785MHz	Pass	AV	5.7826G	103.54	Inf	-Inf	3.53	3	H	269	1.01	-
5785MHz	Pass	PK	5.5054G	57.46	68.20	-10.74	3.28	3	H	269	1.01	-
5785MHz	Pass	PK	5.791G	111.77	Inf	-Inf	3.53	3	H	269	1.01	-
5785MHz	Pass	PK	5.9362G	57.87	68.20	-10.33	3.66	3	H	269	1.01	-
5785MHz	Pass	AV	5.7814G	91.67	Inf	-Inf	3.53	3	V	137	3.16	-
5785MHz	Pass	PK	5.6086G	57.38	68.20	-10.82	3.38	3	V	137	3.16	-



## RSE TX above 1GHz Result

## Appendix E.2

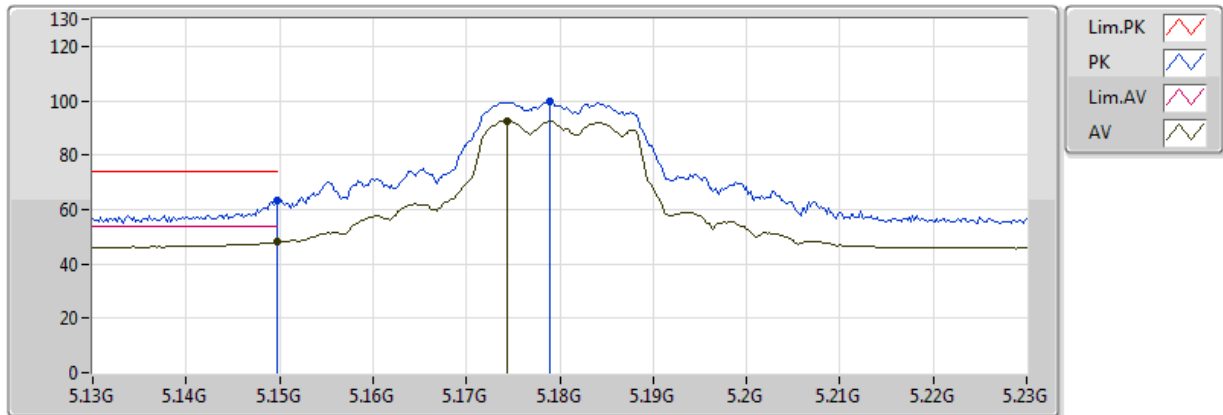
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5785MHz	Pass	PK	5.7814G	100.39	Inf	-Inf	3.53	3	V	137	3.16	-
5785MHz	Pass	PK	5.9782G	57.54	68.20	-10.66	3.70	3	V	137	3.16	-
5785MHz	Pass	AV	11.57G	52.61	54.00	-1.39	13.63	3	H	298	1.03	-
5785MHz	Pass	PK	11.57G	64.22	74.00	-9.78	13.63	3	H	298	1.03	-
5785MHz	Pass	AV	11.57G	50.97	54.00	-3.03	13.63	3	V	81	3.51	-
5785MHz	Pass	PK	11.57G	62.59	74.00	-11.41	13.63	3	V	81	3.51	-
5825MHz	Pass	AV	5.8238G	102.64	Inf	-Inf	3.56	3	H	273	1.02	-
5825MHz	Pass	PK	5.5898G	57.56	68.20	-10.64	3.36	3	H	273	1.02	-
5825MHz	Pass	PK	5.8274G	111.34	Inf	-Inf	3.56	3	H	273	1.02	-
5825MHz	Pass	PK	5.9786G	57.91	68.20	-10.29	3.70	3	H	273	1.02	-
5825MHz	Pass	AV	5.819G	91.74	Inf	-Inf	3.56	3	V	140	2.71	-
5825MHz	Pass	PK	5.6006G	58.30	68.20	-9.90	3.37	3	V	140	2.71	-
5825MHz	Pass	PK	5.8214G	99.88	Inf	-Inf	3.56	3	V	140	2.71	-
5825MHz	Pass	PK	5.9354G	57.26	68.20	-10.94	3.66	3	V	140	2.71	-
5825MHz	Pass	AV	11.65G	52.11	54.00	-1.89	13.50	3	H	311	2.46	-
5825MHz	Pass	PK	11.65G	63.13	74.00	-10.87	13.50	3	H	311	2.46	-
5825MHz	Pass	AV	11.65G	50.86	54.00	-3.14	13.50	3	V	78	3.03	-
5825MHz	Pass	PK	11.65G	61.68	74.00	-12.32	13.50	3	V	78	3.03	-
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	AV	5.7478G	100.17	Inf	-Inf	3.50	3	H	256	1.00	-
5755MHz	Pass	PK	5.6494G	67.90	68.20	-0.30	3.41	3	H	256	1.00	-
5755MHz	Pass	PK	5.7478G	108.63	Inf	-Inf	3.50	3	H	256	1.00	-
5755MHz	Pass	PK	5.9314G	58.41	68.20	-9.79	3.66	3	H	256	1.00	-
5755MHz	Pass	AV	5.7406G	88.25	Inf	-Inf	3.49	3	V	154	3.34	-
5755MHz	Pass	PK	5.6278G	58.09	68.20	-10.11	3.40	3	V	154	3.34	-
5755MHz	Pass	PK	5.7598G	96.52	Inf	-Inf	3.51	3	V	154	3.34	-
5755MHz	Pass	PK	5.977G	57.47	68.20	-10.73	3.70	3	V	154	3.34	-
5755MHz	Pass	AV	11.51G	49.56	54.00	-4.44	13.72	3	H	291	1.02	-
5755MHz	Pass	PK	11.51G	61.45	74.00	-12.55	13.72	3	H	291	1.02	-
5755MHz	Pass	AV	11.51G	47.79	54.00	-6.21	13.72	3	V	60	3.51	-
5755MHz	Pass	PK	11.51G	59.04	74.00	-14.96	13.72	3	V	60	3.51	-
5795MHz	Pass	AV	5.7878G	101.13	Inf	-Inf	3.53	3	H	262	1.01	-
5795MHz	Pass	PK	5.651G	63.64	68.94	-5.30	3.42	3	H	262	1.01	-
5795MHz	Pass	PK	5.7902G	109.40	Inf	-Inf	3.53	3	H	262	1.01	-
5795MHz	Pass	PK	5.9354G	62.16	68.20	-6.04	3.66	3	H	262	1.01	-
5795MHz	Pass	AV	5.801G	88.63	Inf	-Inf	3.54	3	V	146	2.15	-
5795MHz	Pass	PK	5.5406G	57.45	68.20	-10.75	3.32	3	V	146	2.15	-
5795MHz	Pass	PK	5.801G	97.30	Inf	-Inf	3.54	3	V	146	2.15	-
5795MHz	Pass	PK	5.927G	57.51	68.20	-10.69	3.65	3	V	146	2.15	-
5795MHz	Pass	AV	11.59G	50.64	54.00	-3.36	13.59	3	H	292	1.01	-
5795MHz	Pass	PK	11.59G	61.70	74.00	-12.30	13.59	3	H	292	1.01	-
5795MHz	Pass	AV	11.59G	49.16	54.00	-4.84	13.59	3	V	69	2.93	-
5795MHz	Pass	PK	11.59G	60.83	74.00	-13.17	13.59	3	V	69	2.93	-
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	AV	5.763G	95.52	Inf	-Inf	3.51	3	H	263	1.00	-
5775MHz	Pass	PK	5.649G	67.92	68.20	-0.28	3.41	3	H	263	1.00	-
5775MHz	Pass	PK	5.7918G	104.73	Inf	-Inf	3.53	3	H	263	1.00	-
5775MHz	Pass	PK	5.925G	63.62	68.20	-4.58	3.65	3	H	263	1.00	-
5775MHz	Pass	AV	5.7642G	84.54	Inf	-Inf	3.51	3	V	125	2.72	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5775MHz	Pass	PK	5.649G	59.07	68.20	-9.13	3.41	3	V	125	2.72	-
5775MHz	Pass	PK	5.757G	93.14	Inf	-Inf	3.51	3	V	125	2.72	-
5775MHz	Pass	PK	5.955G	57.70	68.20	-10.50	3.68	3	V	125	2.72	-
5775MHz	Pass	AV	11.55G	46.50	54.00	-7.50	13.66	3	H	296	1.00	-
5775MHz	Pass	PK	11.55G	58.38	74.00	-15.62	13.66	3	H	296	1.00	-
5775MHz	Pass	AV	11.55G	45.59	54.00	-8.41	13.66	3	V	61	3.67	-
5775MHz	Pass	PK	11.55G	57.74	74.00	-16.26	13.66	3	V	61	3.67	-

### 802.11a\_(6Mbps)\_2TX

### 5180MHz\_TX

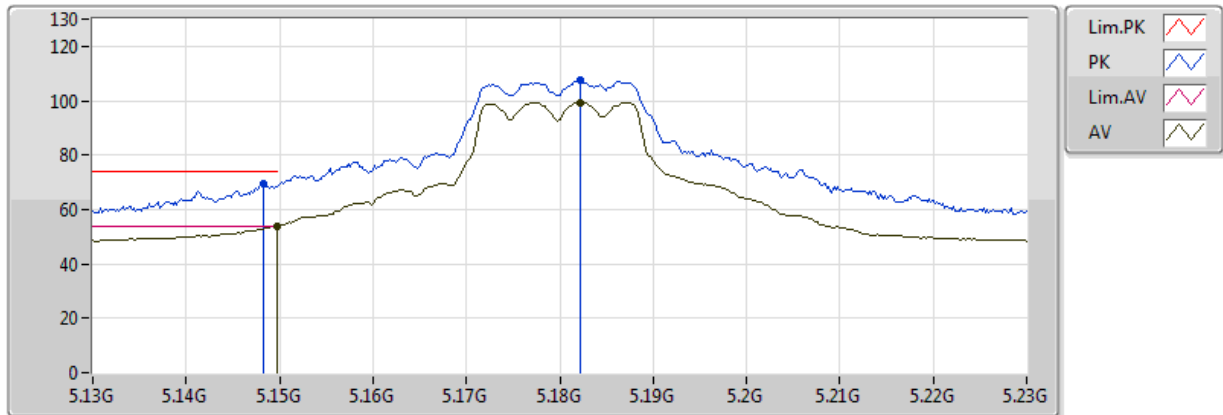


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1498G	48.24	54.00	-5.76	2.88	3	V	159	2.85	-
AV	5.1744G	92.53	Inf	-Inf	2.91	3	V	159	2.85	-
PK	5.1498G	63.11	74.00	-10.89	2.88	3	V	159	2.85	-
PK	5.179G	99.59	Inf	-Inf	2.92	3	V	159	2.85	-

## 802.11a\_(6Mbps)\_2TX

## 5180MHz\_TX

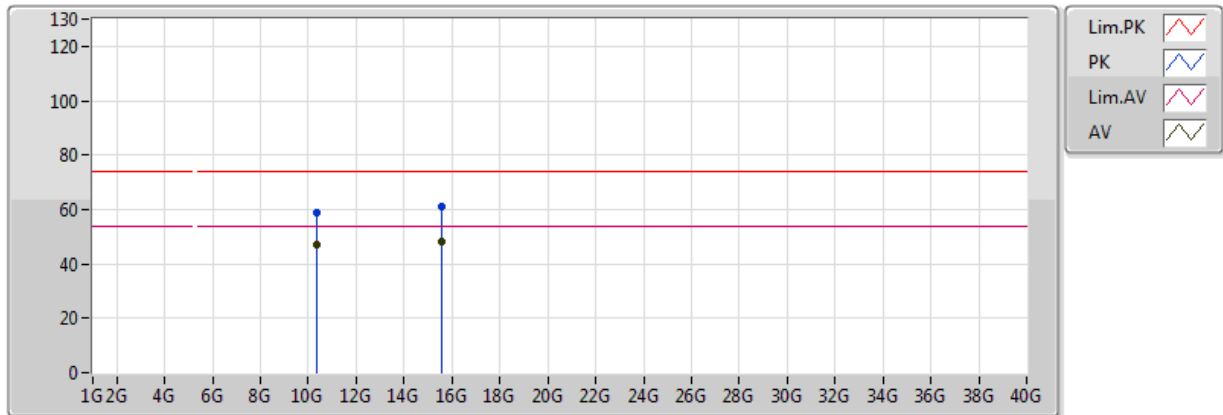


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1498G	53.89	54.00	-0.11	2.88	3	H	189	1.02	-
AV	5.1822G	99.42	Inf	-Inf	2.92	3	H	189	1.02	-
PK	5.1482G	69.44	74.00	-4.56	2.88	3	H	189	1.02	-
PK	5.1822G	107.85	Inf	-Inf	2.92	3	H	189	1.02	-

## 802.11a\_(6Mbps)\_2TX

## 5180MHz\_TX

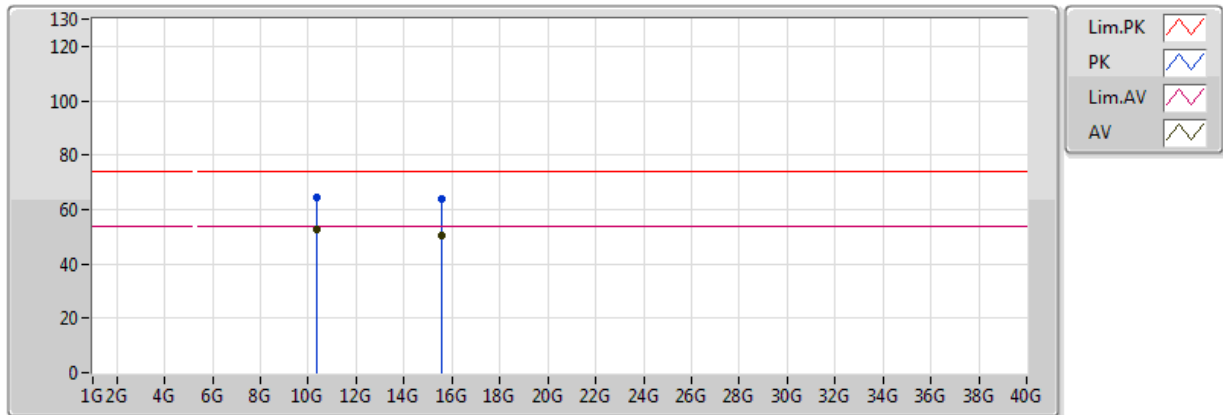


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.36G	46.88	54.00	-7.12	12.86	3	V	107	1.01	-
AV	15.54G	48.08	54.00	-5.92	14.75	3	V	115	2.98	-
PK	10.36G	58.81	74.00	-15.19	12.86	3	V	107	1.01	-
PK	15.54G	61.24	74.00	-12.76	14.75	3	V	115	2.98	-

### 802.11a\_(6Mbps)\_2TX

### 5180MHz\_TX

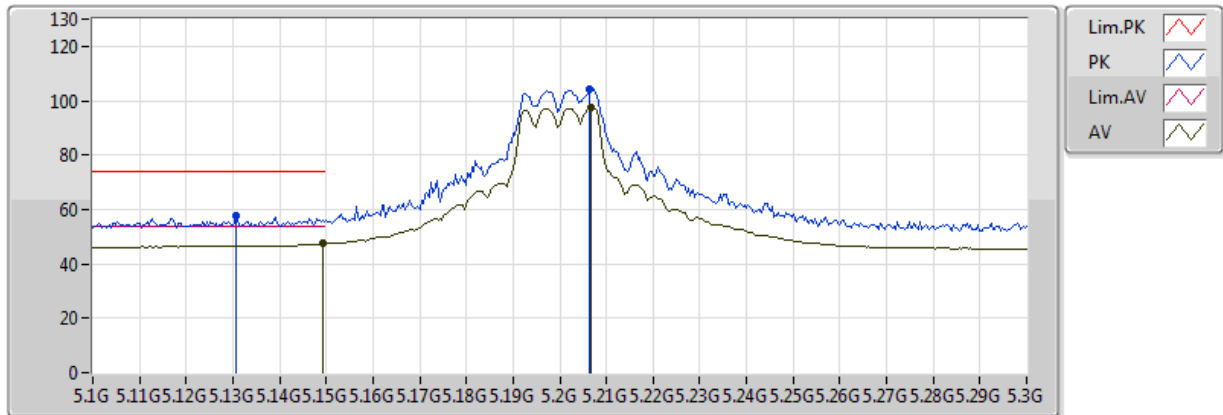


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.36G	52.76	54.00	-1.24	12.86	3	H	117	1.93	-
AV	15.54G	50.56	54.00	-3.44	14.75	3	H	199	1.70	-
PK	10.36G	64.26	74.00	-9.74	12.86	3	H	117	1.93	-
PK	15.54G	64.04	74.00	-9.96	14.75	3	H	199	1.70	-

## 802.11a\_(6Mbps)\_2TX

## 5200MHz\_TX

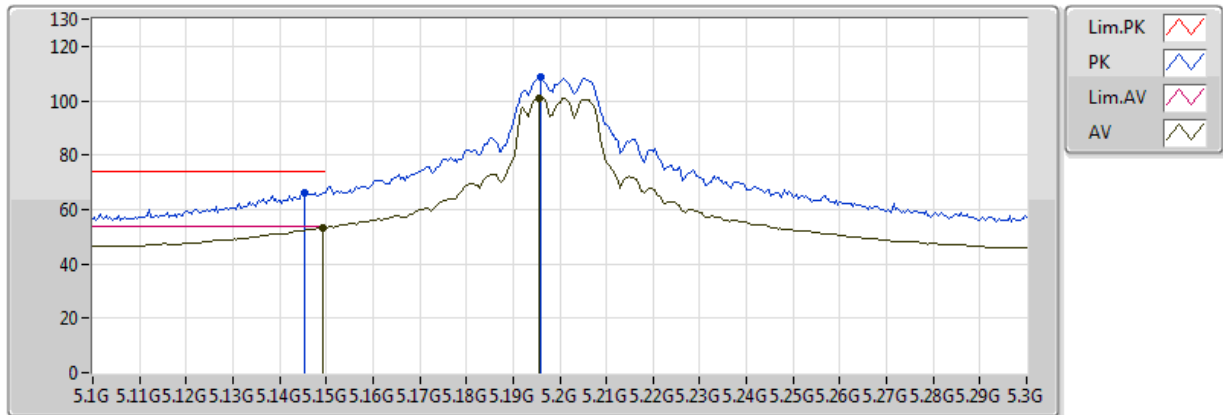


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1492G	47.37	54.00	-6.63	2.88	3	V	179	3.49	-
AV	5.2068G	97.38	Inf	-Inf	2.95	3	V	179	3.49	-
PK	5.1308G	57.81	74.00	-16.19	2.86	3	V	179	3.49	-
PK	5.2064G	104.22	Inf	-Inf	2.95	3	V	179	3.49	-

## 802.11a\_(6Mbps)\_2TX

## 5200MHz\_TX

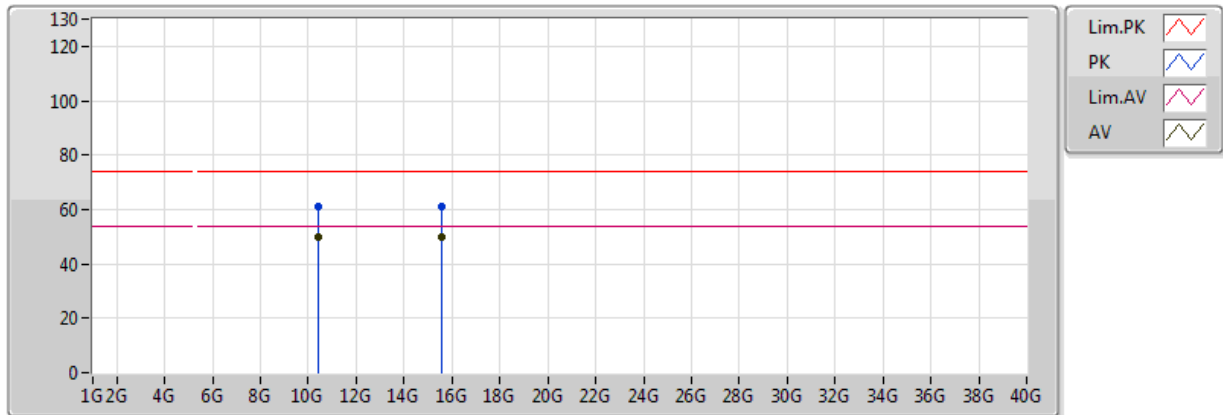


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1492G	53.35	54.00	-0.65	2.88	3	H	125	2.22	-
AV	5.1956G	101.12	Inf	-Inf	2.94	3	H	125	2.22	-
PK	5.1452G	66.31	74.00	-7.69	2.88	3	H	125	2.22	-
PK	5.196G	108.94	Inf	-Inf	2.94	3	H	125	2.22	-

## 802.11a\_(6Mbps)\_2TX

## 5200MHz\_TX



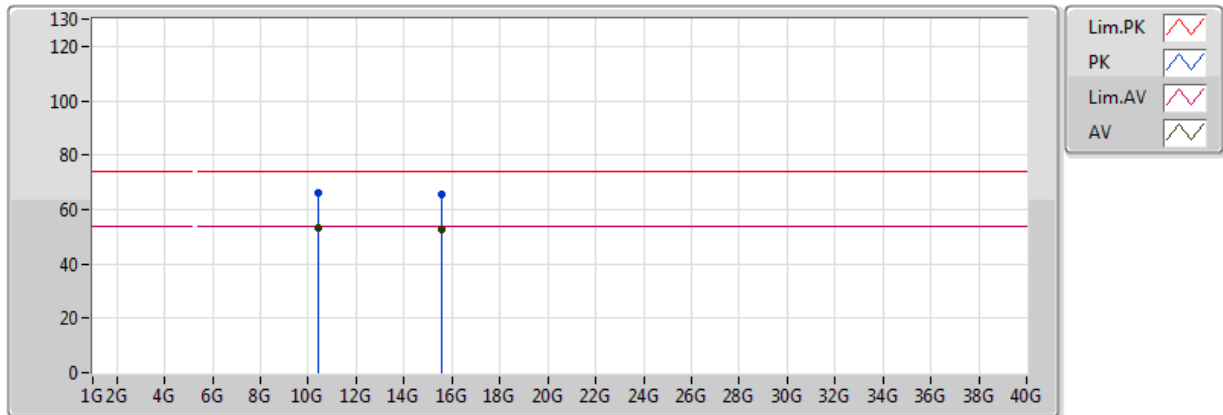
Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.4G	49.85	54.00	-4.15	12.97	3	V	269	3.64	-
AV	15.6G	49.67	54.00	-4.33	14.53	3	V	129	3.40	-
PK	10.4G	61.03	74.00	-12.97	12.97	3	V	269	3.64	-
PK	15.6G	61.06	74.00	-12.94	14.53	3	V	129	3.40	-



## 802.11a\_(6Mbps)\_2TX

## 5200MHz\_TX

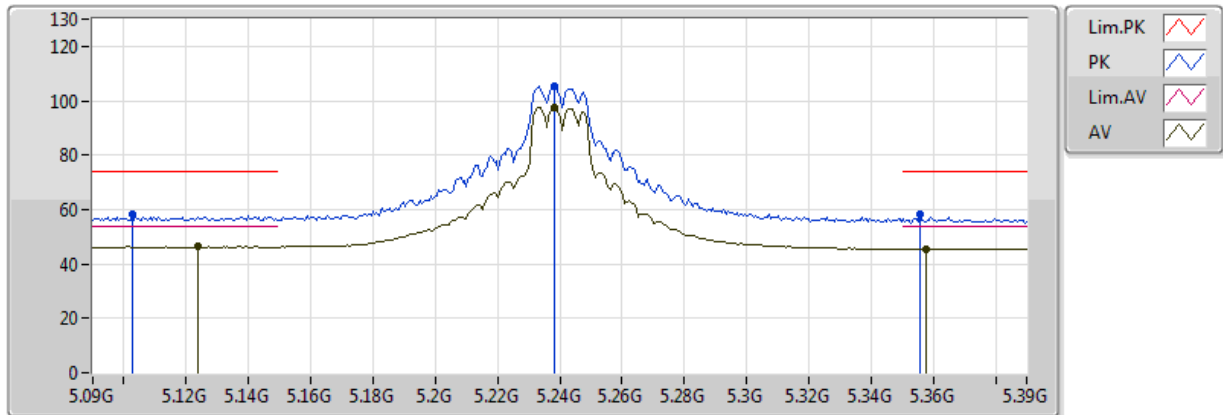


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.4G	53.22	54.00	-0.78	12.97	3	H	316	1.88	-
AV	15.6G	52.72	54.00	-1.28	14.53	3	H	219	1.78	-
PK	10.4G	66.33	68.20	-1.87	12.97	3	H	316	1.88	-
PK	15.6G	65.72	74.00	-8.28	14.53	3	H	219	1.78	-

### 802.11a\_(6Mbps)\_2TX

### 5240MHz\_TX

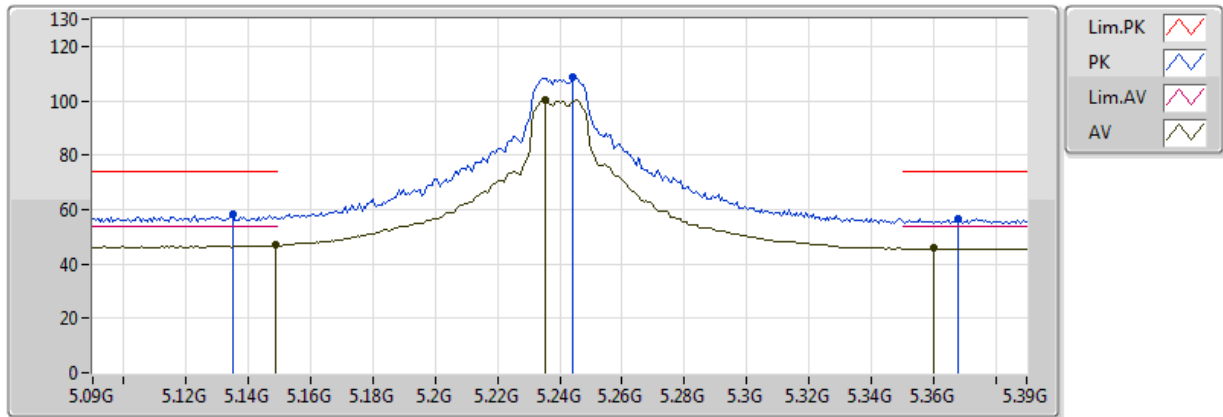


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1236G	46.35	54.00	-7.65	2.86	3	V	298	3.67	-
AV	5.2382G	97.53	Inf	-Inf	2.98	3	V	298	3.67	-
AV	5.3576G	45.64	54.00	-8.36	3.11	3	V	298	3.67	-
PK	5.1026G	58.00	74.00	-16.00	2.83	3	V	298	3.67	-
PK	5.2382G	105.30	Inf	-Inf	2.98	3	V	298	3.67	-
PK	5.3558G	58.11	74.00	-15.89	3.11	3	V	298	3.67	-

## 802.11a\_(6Mbps)\_2TX

## 5240MHz\_TX

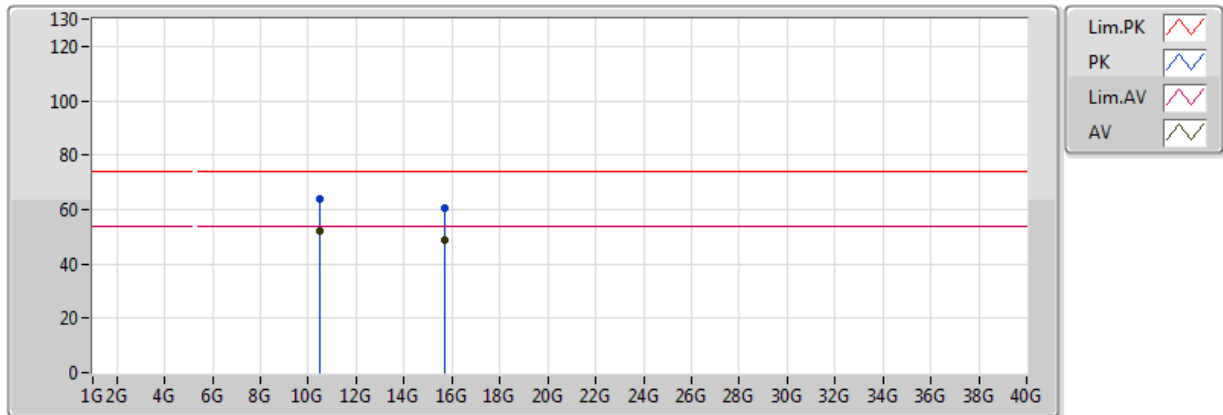


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1488G	46.83	54.00	-7.17	2.88	3	H	29	2.17	-
AV	5.2352G	100.43	Inf	-Inf	2.98	3	H	29	2.17	-
AV	5.36G	45.72	54.00	-8.28	3.12	3	H	29	2.17	-
PK	5.135G	58.18	74.00	-15.82	2.87	3	H	29	2.17	-
PK	5.2442G	108.52	Inf	-Inf	2.99	3	H	29	2.17	-
PK	5.3678G	56.70	74.00	-17.30	3.12	3	H	29	2.17	-

## 802.11a\_(6Mbps)\_2TX

## 5240MHz\_TX

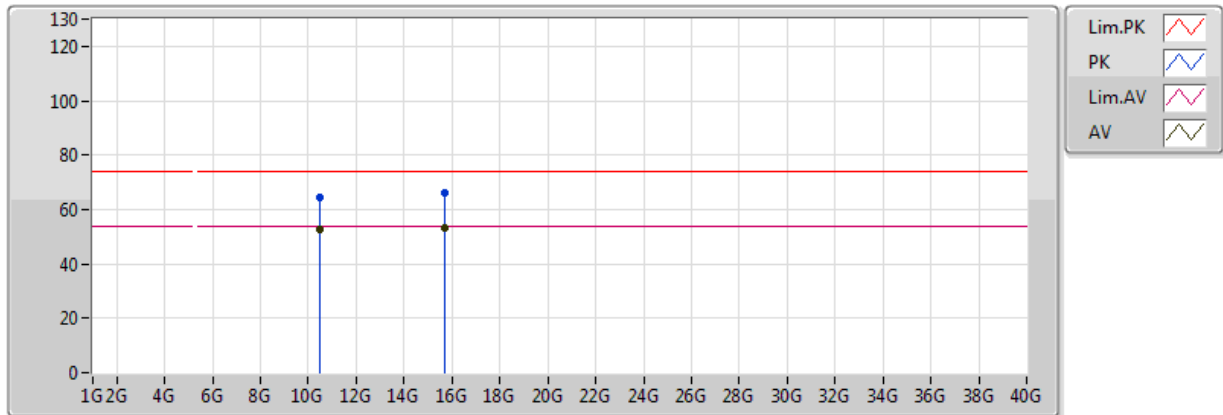


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.48G	52.23	54.00	-1.77	13.17	3	V	273	3.58	-
AV	15.72G	48.56	54.00	-5.44	14.11	3	V	33	1.02	-
PK	10.48G	64.09	74.00	-9.91	13.17	3	V	273	3.58	-
PK	15.72G	60.45	74.00	-13.55	14.11	3	V	33	1.02	-

### 802.11a\_(6Mbps)\_2TX

### 5240MHz\_TX

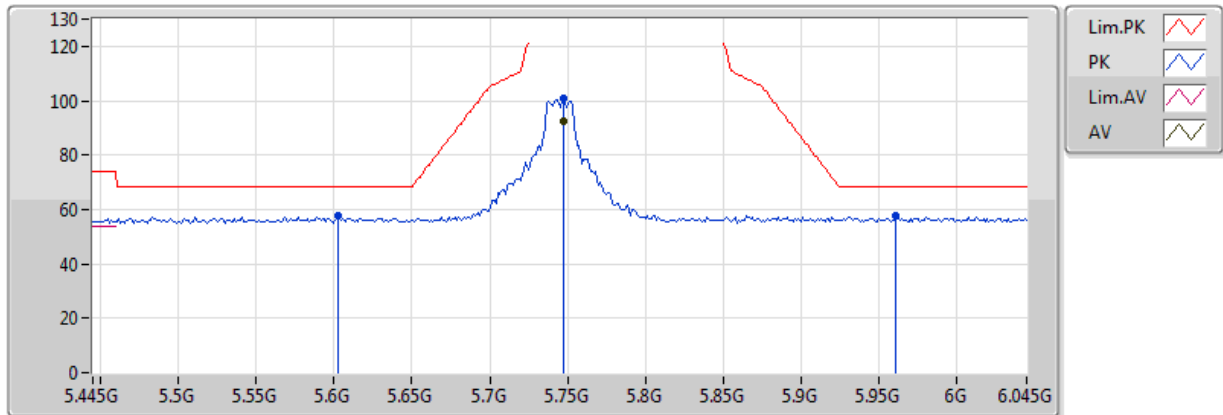


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.48G	52.41	54.00	-1.59	13.17	3	H	313	1.73	-
AV	15.72G	53.50	54.00	-0.50	14.11	3	H	39	1.78	-
PK	10.48G	64.55	74.00	-9.45	13.17	3	H	313	1.73	-
PK	15.72G	66.30	74.00	-7.70	14.11	3	H	39	1.78	-

### 802.11a\_(6Mbps)\_2TX

### 5745MHz\_TX

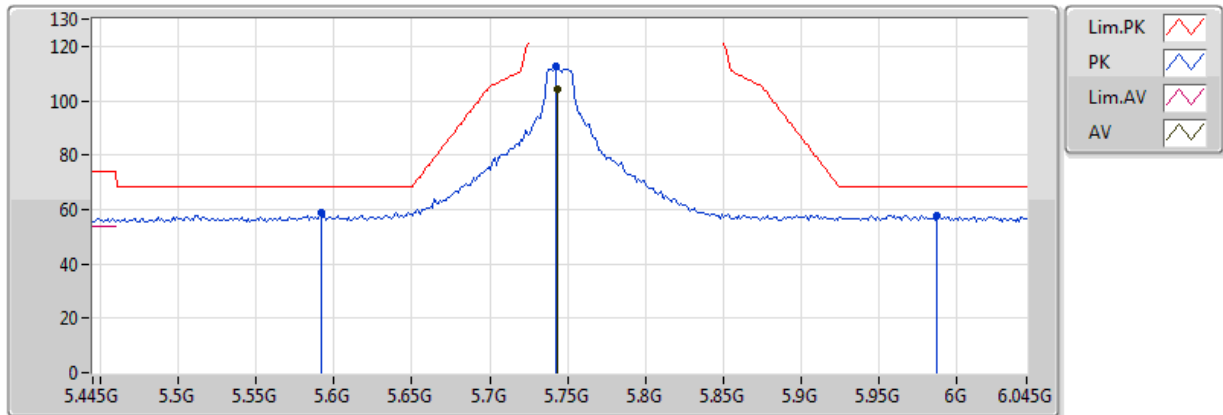


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7474G	92.57	Inf	-Inf	3.50	3	V	153	3.04	-
PK	5.6022G	57.64	68.20	-10.56	3.37	3	V	153	3.04	-
PK	5.7474G	100.80	Inf	-Inf	3.50	3	V	153	3.04	-
PK	5.961G	57.53	68.20	-10.67	3.68	3	V	153	3.04	-

### 802.11a\_(6Mbps)\_2TX

### 5745MHz\_TX

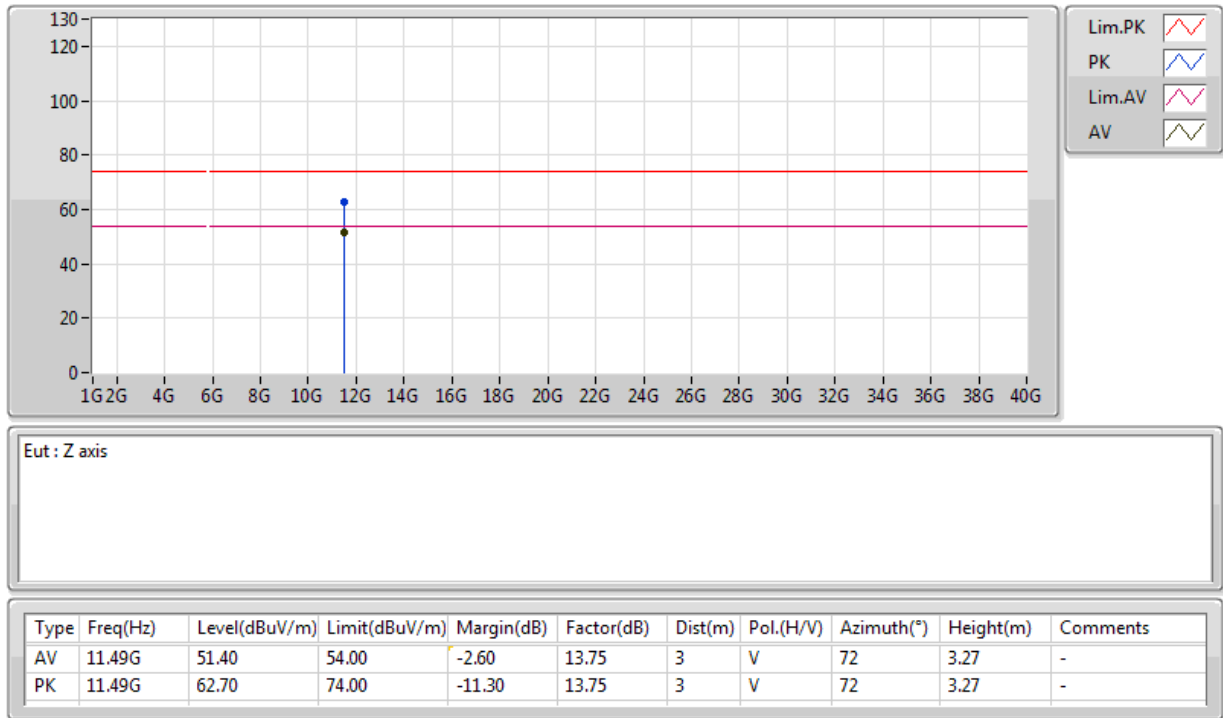


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7438G	103.95	Inf	-Inf	3.50	3	H	265	1.00	-
PK	5.5914G	58.63	68.20	-9.57	3.36	3	H	265	1.00	-
PK	5.7426G	112.48	Inf	-Inf	3.49	3	H	265	1.00	-
PK	5.9874G	57.82	68.20	-10.38	3.71	3	H	265	1.00	-

### 802.11a\_(6Mbps)\_2TX

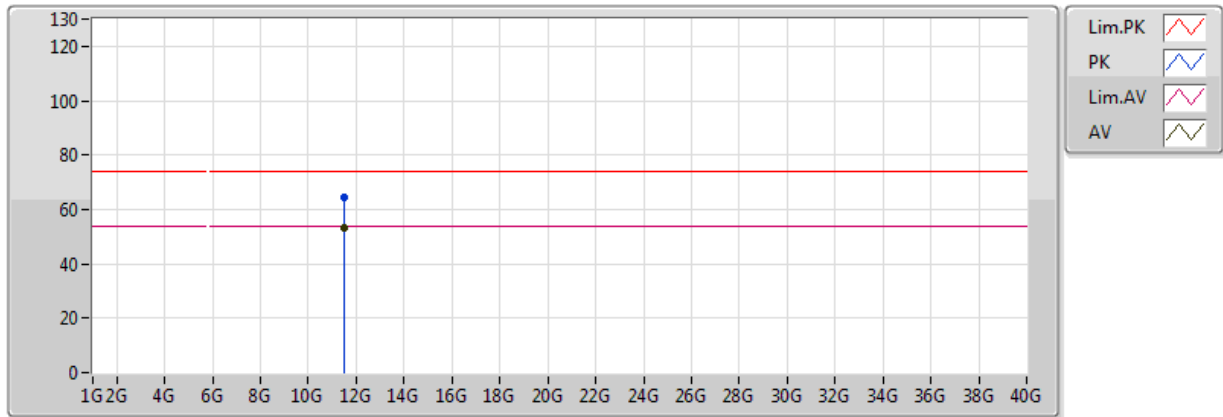
### 5745MHz\_TX





### 802.11a\_(6Mbps)\_2TX

### 5745MHz\_TX

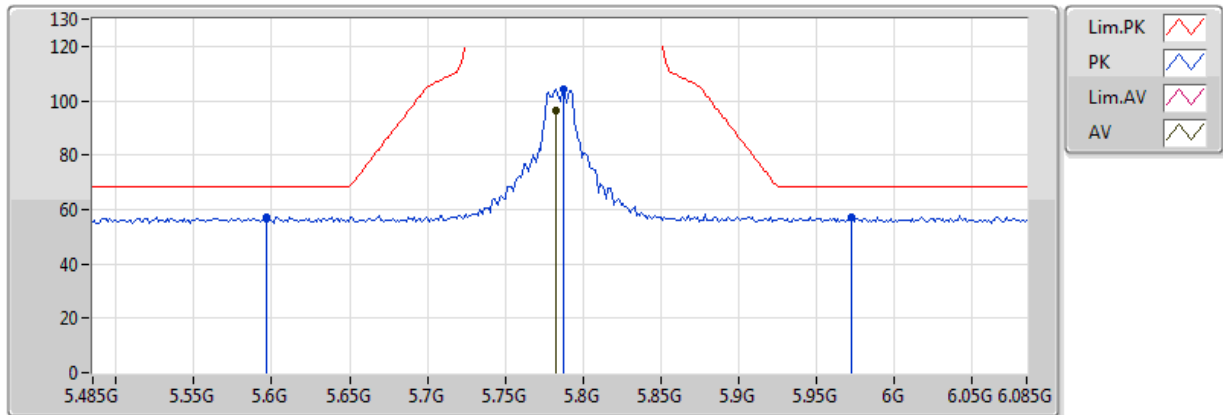


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.49G	53.10	54.00	-0.90	13.75	3	H	308	1.00	-
PK	11.49G	64.44	74.00	-9.56	13.75	3	H	308	1.00	-

### 802.11a\_(6Mbps)\_2TX

### 5785MHz\_TX

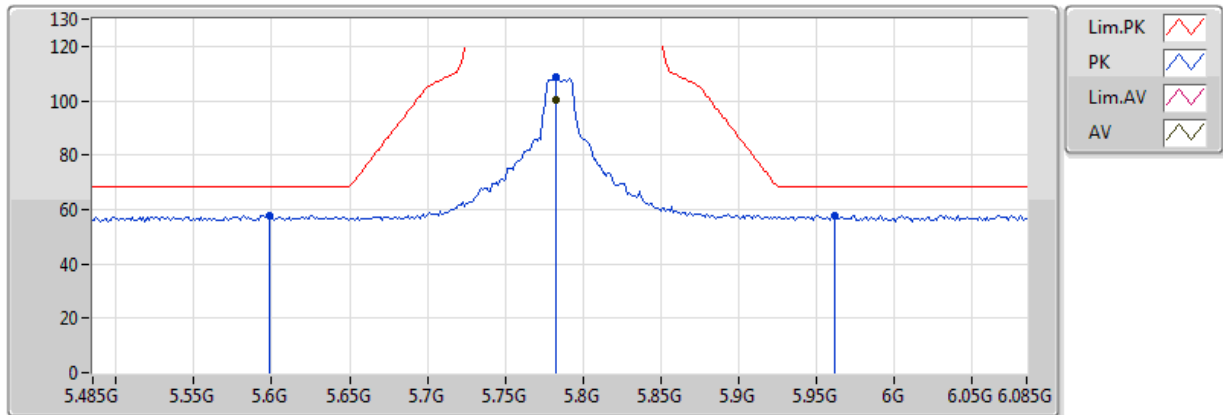


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7826G	96.61	Inf	-Inf	3.53	3	V	306	3.64	-
PK	5.5966G	57.15	68.20	-11.05	3.37	3	V	306	3.64	-
PK	5.7874G	104.37	Inf	-Inf	3.53	3	V	306	3.64	-
PK	5.9722G	57.18	68.20	-11.02	3.69	3	V	306	3.64	-

## 802.11a\_(6Mbps)\_2TX

### 5785MHz\_TX

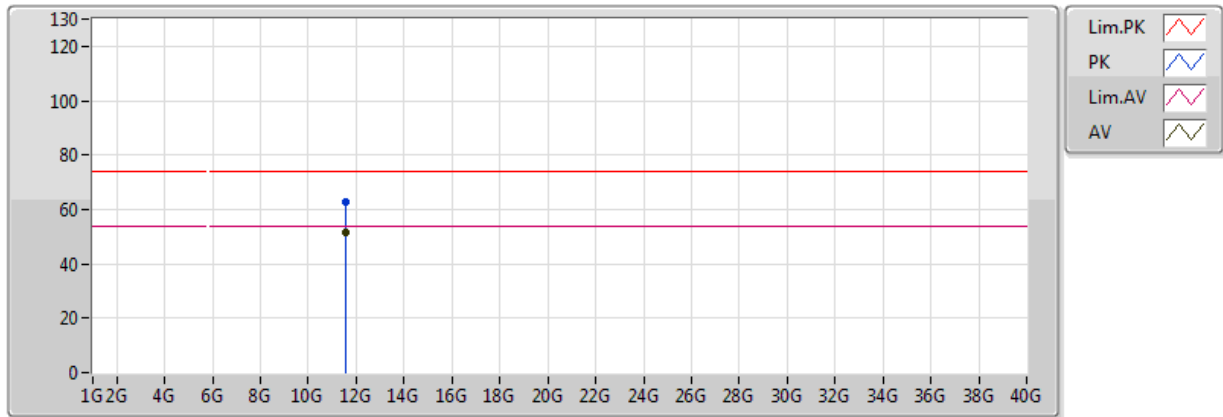


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7826G	100.20	Inf	-Inf	3.53	3	H	257	2.15	-
PK	5.599G	57.98	68.20	-10.22	3.37	3	H	257	2.15	-
PK	5.7826G	108.64	Inf	-Inf	3.53	3	H	257	2.15	-
PK	5.9614G	57.76	68.20	-10.44	3.69	3	H	257	2.15	-

### 802.11a\_(6Mbps)\_2TX

### 5785MHz\_TX

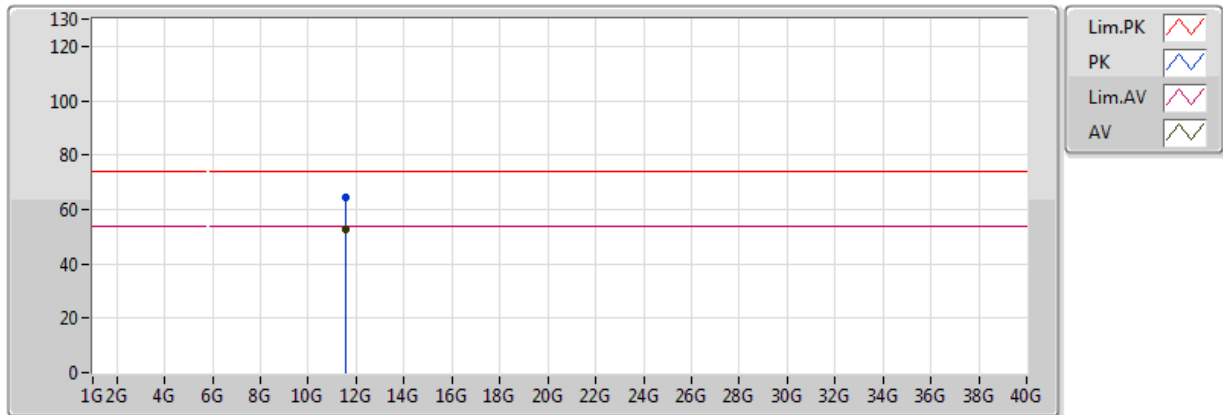


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57G	51.30	54.00	-2.70	13.63	3	V	70	3.57	-
PK	11.57G	62.79	74.00	-11.21	13.63	3	V	70	3.57	-

### 802.11a\_(6Mbps)\_2TX

### 5785MHz\_TX

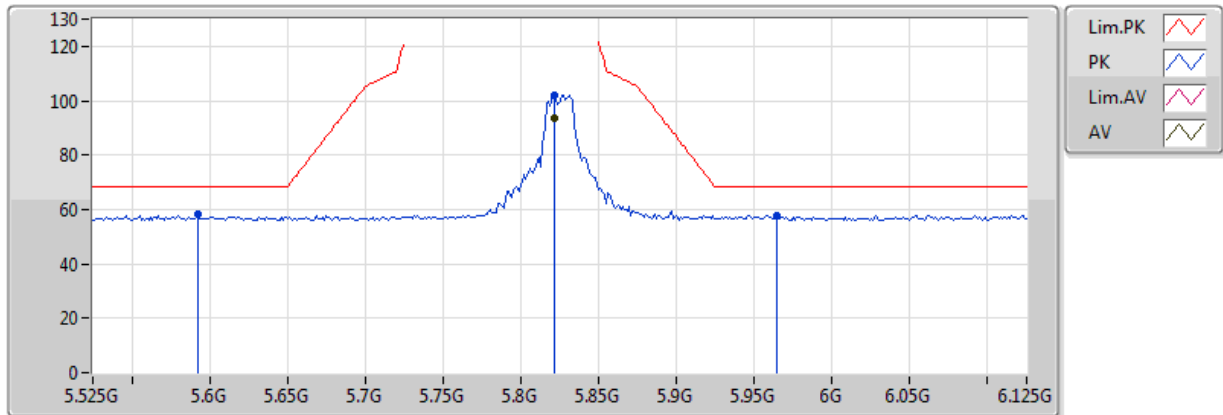


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57G	52.86	54.00	-1.14	13.63	3	H	302	1.02	-
PK	11.57G	64.24	74.00	-9.76	13.63	3	H	302	1.02	-

## 802.11a\_(6Mbps)\_2TX

### 5825MHz\_TX

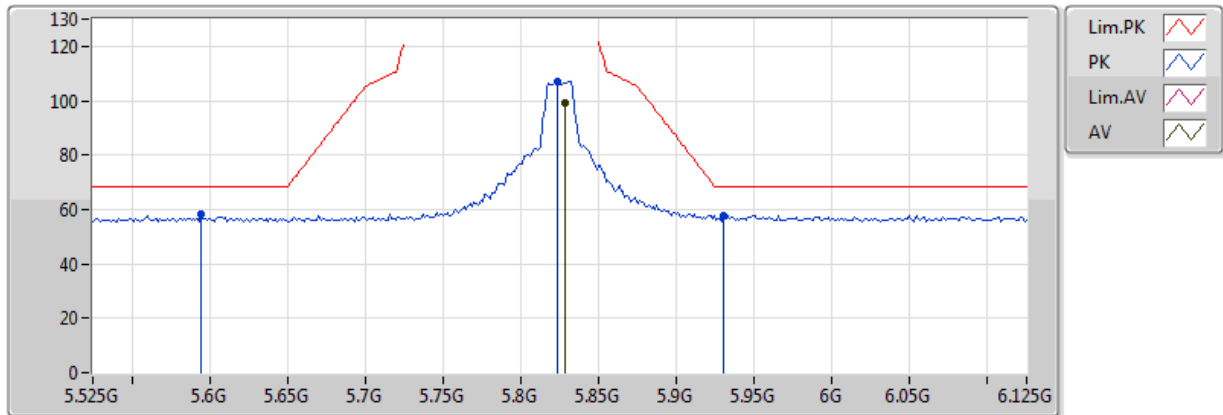


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.8214G	93.61	Inf	-Inf	3.56	3	V	282	3.60	-
PK	5.5922G	58.27	68.20	-9.93	3.36	3	V	282	3.60	-
PK	5.8214G	102.24	Inf	-Inf	3.56	3	V	282	3.60	-
PK	5.9642G	57.85	68.20	-10.35	3.69	3	V	282	3.60	-

## 802.11a\_(6Mbps)\_2TX

## 5825MHz\_TX

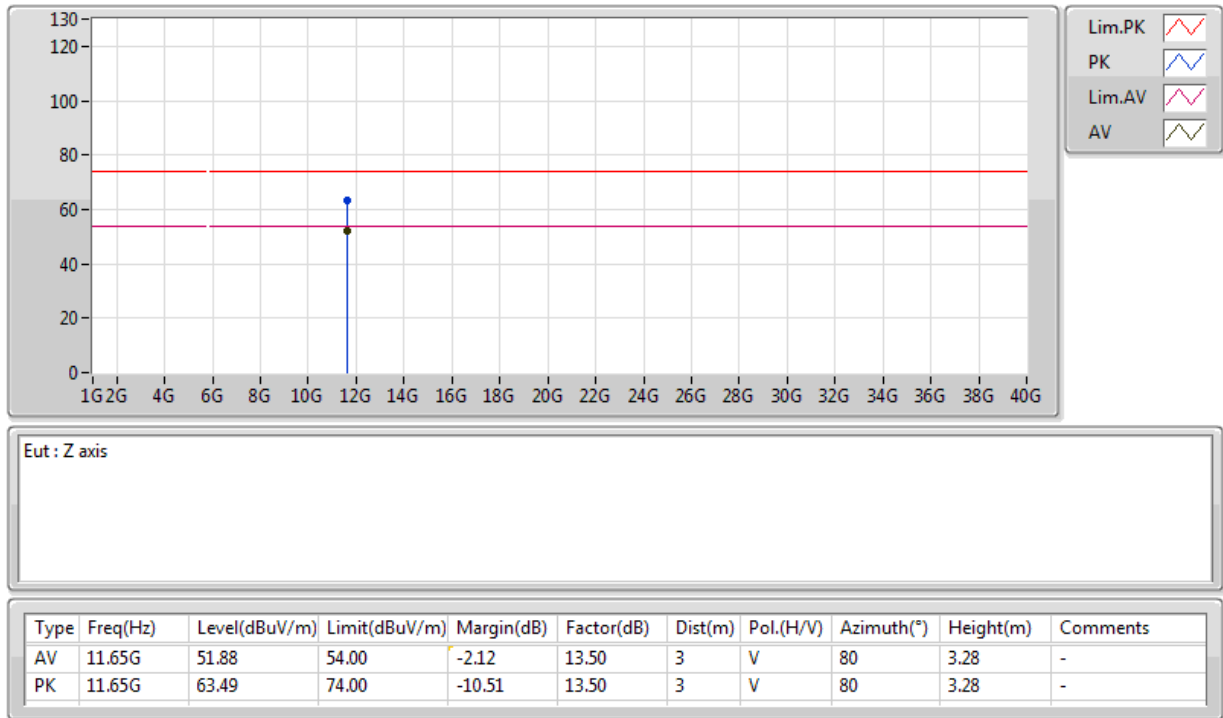


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.8286G	99.05	Inf	-Inf	3.57	3	H	259	2.24	-
PK	5.5946G	58.15	68.20	-10.05	3.37	3	H	259	2.24	-
PK	5.8238G	107.30	Inf	-Inf	3.56	3	H	259	2.24	-
PK	5.9306G	57.78	68.20	-10.42	3.66	3	H	259	2.24	-

### 802.11a\_(6Mbps)\_2TX

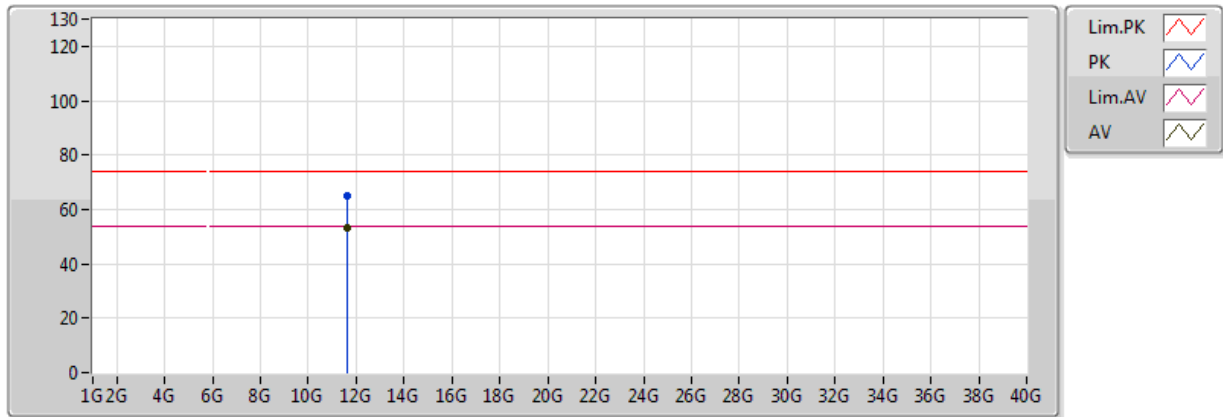
### 5825MHz\_TX





### 802.11a\_(6Mbps)\_2TX

### 5825MHz\_TX

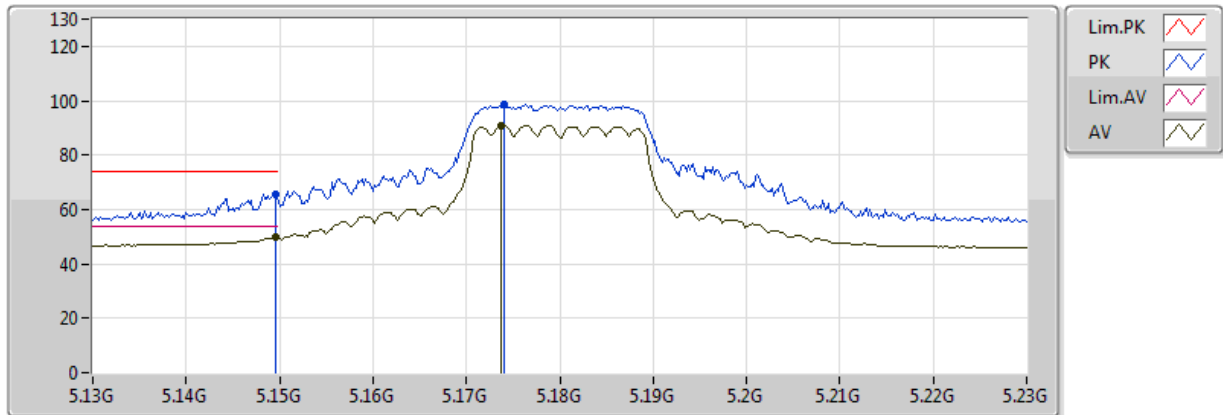


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.65G	53.47	54.00	-0.53	13.50	3	H	306	1.00	-
PK	11.65G	64.84	74.00	-9.16	13.50	3	H	306	1.00	-

# 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## 5180MHz\_TX

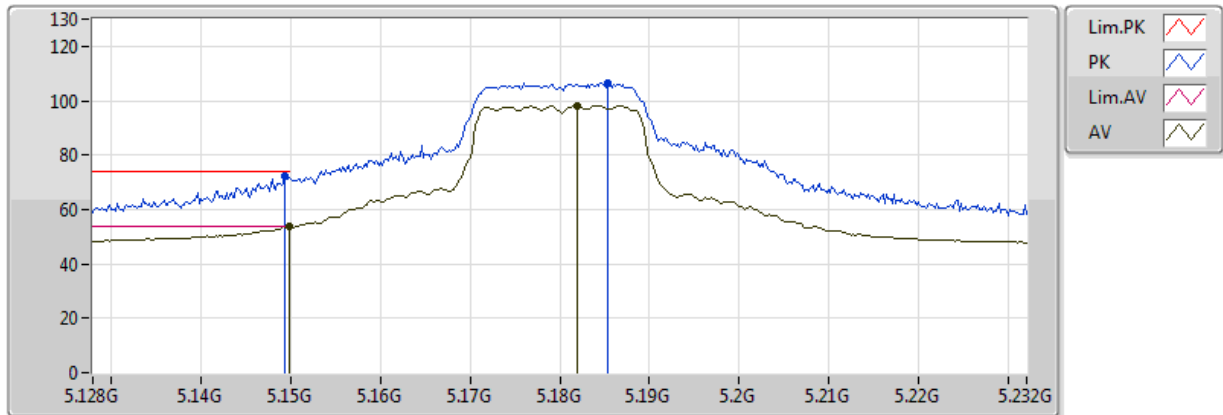


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1496G	49.70	54.00	-4.30	2.88	3	V	200	3.59	-
AV	5.1738G	90.76	Inf	-Inf	2.91	3	V	200	3.59	-
PK	5.1496G	65.84	74.00	-8.16	2.88	3	V	200	3.59	-
PK	5.174G	98.52	Inf	-Inf	2.91	3	V	200	3.59	-

## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5180MHz\_TX

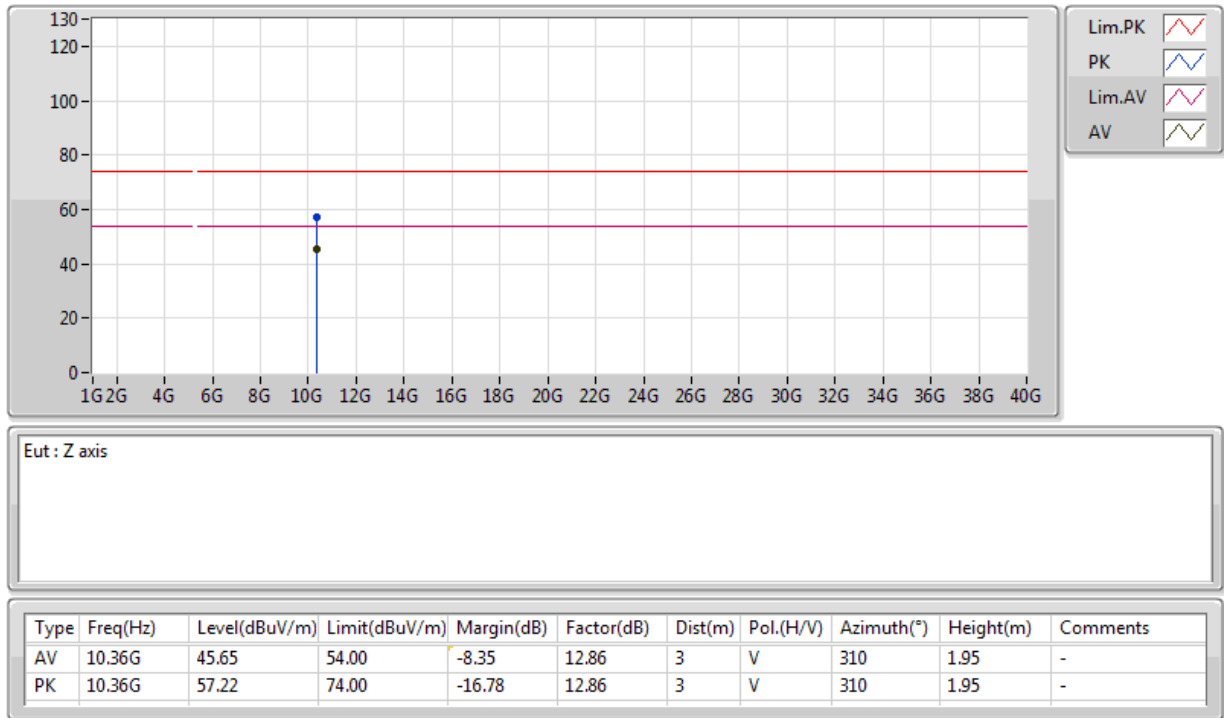


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.14984G	53.78	54.00	-0.22	2.88	3	H	258	2.08	-
AV	5.181872G	98.06	Inf	-Inf	2.92	3	H	258	2.08	-
PK	5.149424G	72.14	74.00	-1.86	2.88	3	H	258	2.08	-
PK	5.185408G	106.34	Inf	-Inf	2.92	3	H	258	2.08	-

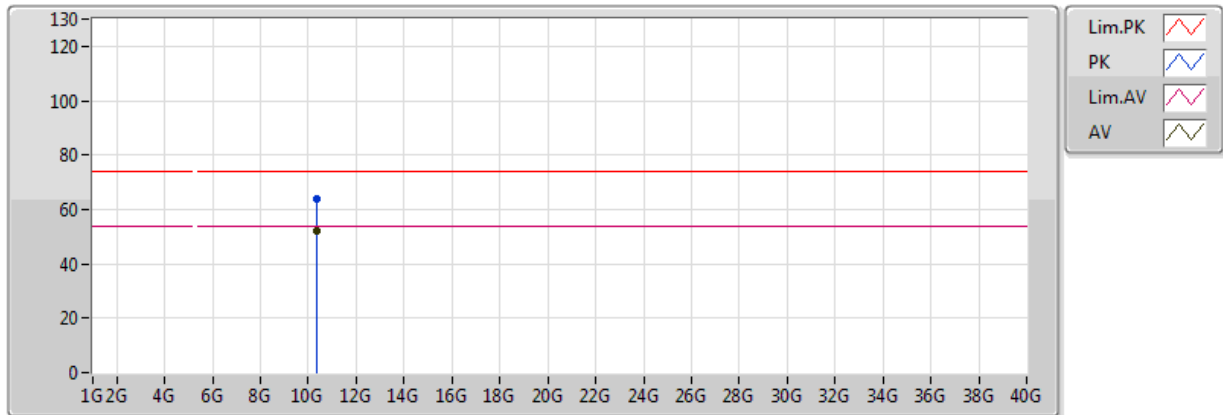
### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5180MHz\_TX



## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## 5180MHz\_TX

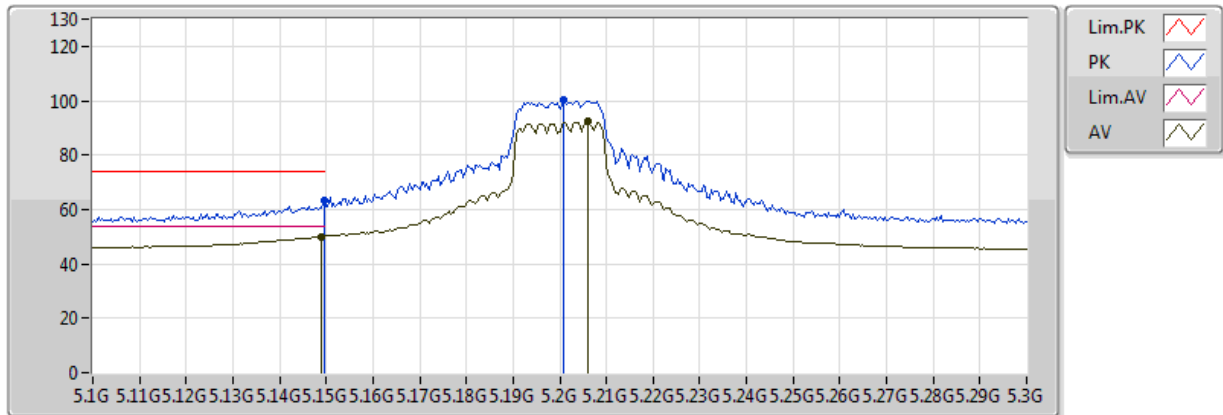


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.36G	52.18	54.00	-1.82	12.86	3	H	296	1.88	-
PK	10.36G	63.99	74.00	-10.01	12.86	3	H	296	1.88	-

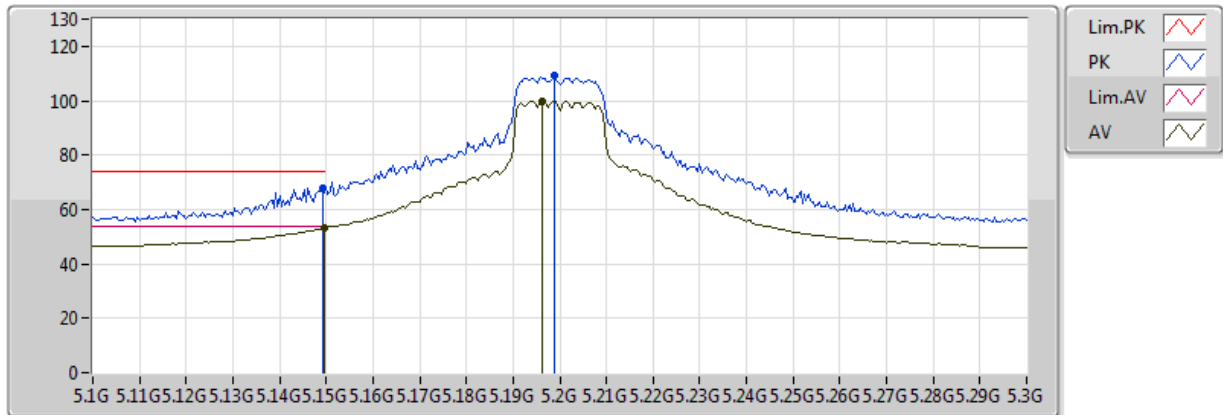
## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## 5200MHz\_TX



Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1488G	49.99	54.00	-4.01	2.88	3	V	216	3.69	-
AV	5.206G	92.23	Inf	-Inf	2.95	3	V	216	3.69	-
PK	5.1496G	63.25	74.00	-10.75	2.88	3	V	216	3.69	-
PK	5.2008G	100.21	Inf	-Inf	2.94	3	V	216	3.69	-

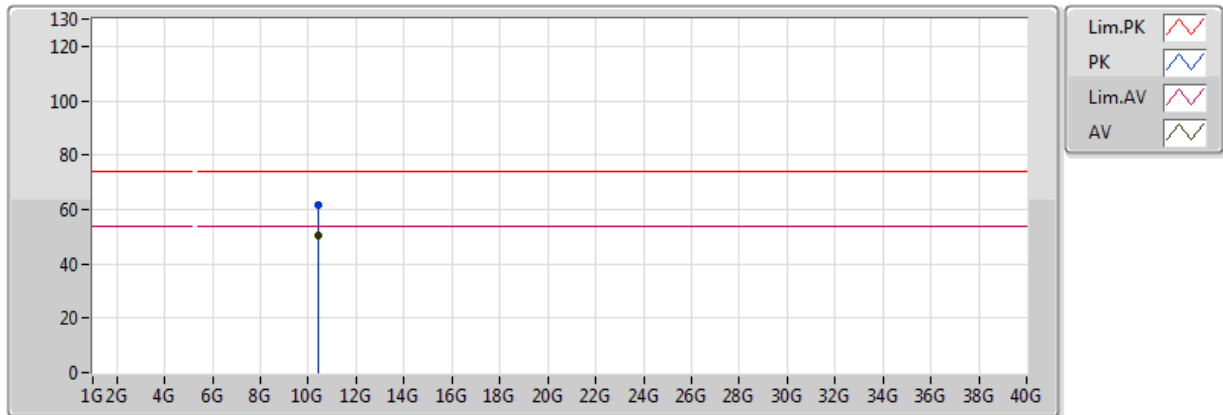
**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**5200MHz\_TX**


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1496G	53.00	54.00	-1.00	2.88	3	H	341	1.12	-
AV	5.1964G	99.94	Inf	-Inf	2.94	3	H	341	1.12	-
PK	5.1492G	68.08	74.00	-5.92	2.88	3	H	341	1.12	-
PK	5.1988G	109.13	Inf	-Inf	2.94	3	H	341	1.12	-

## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## 5200MHz\_TX



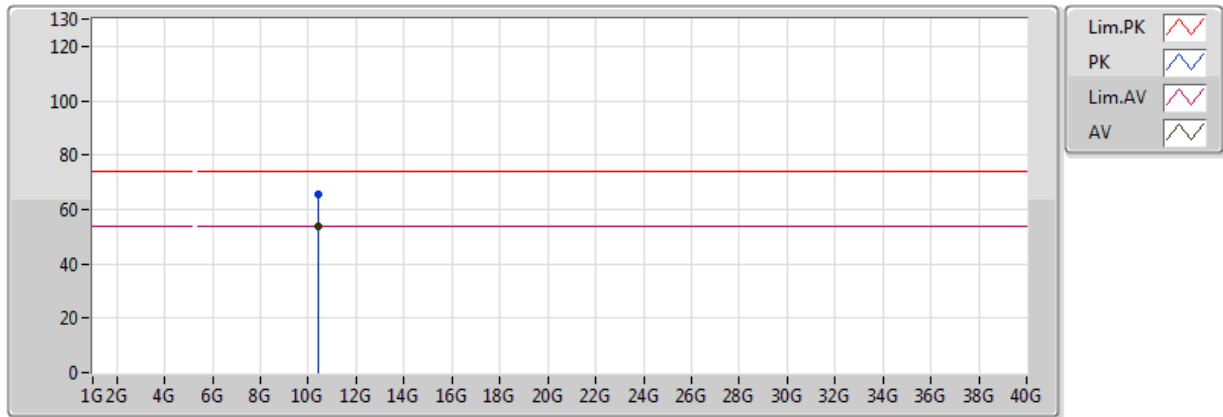
Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.4G	50.41	54.00	-3.59	12.97	3	V	74	3.51	-
PK	10.4G	61.80	74.00	-12.20	12.97	3	V	74	3.51	-



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5200MHz\_TX

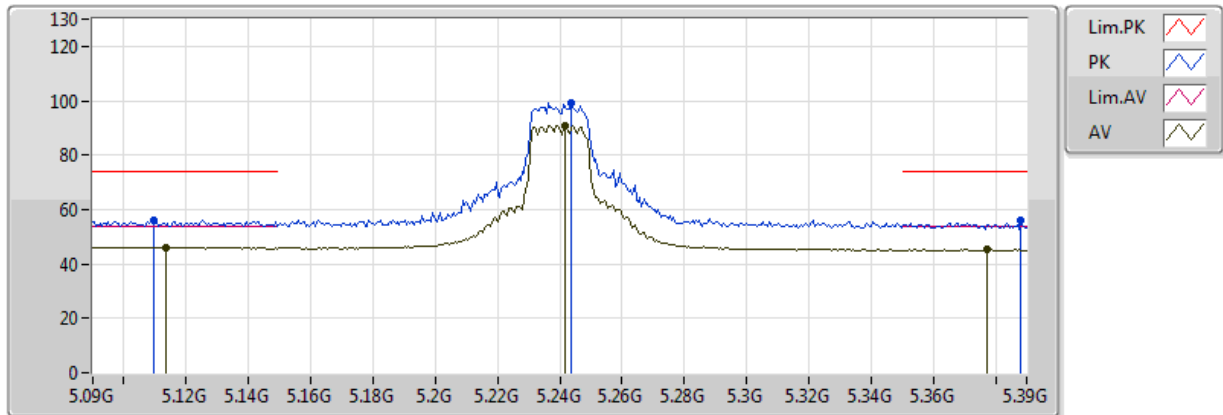


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.4G	53.73	54.00	-0.27	12.97	3	H	300	1.00	-
PK	10.4G	65.52	74.00	-8.48	12.97	3	H	300	1.00	-

## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## 5240MHz\_TX

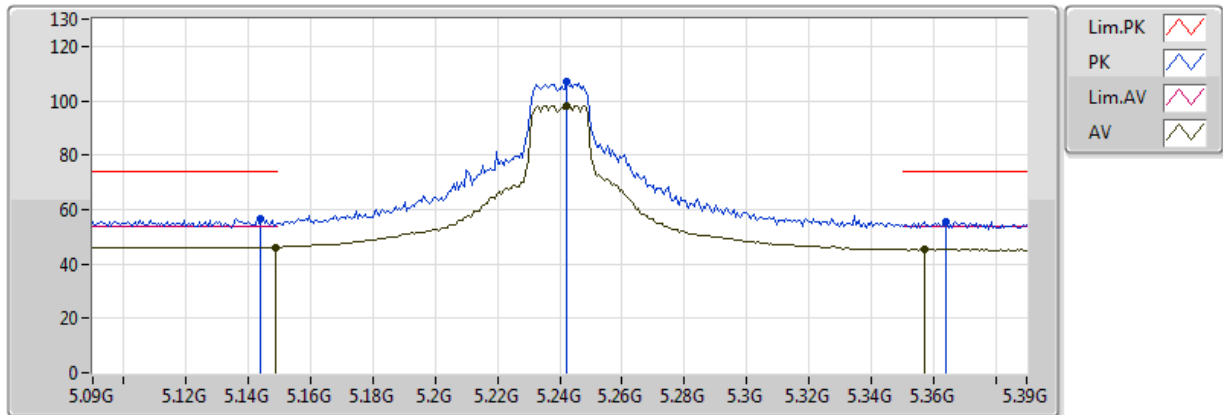


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1134G	46.03	54.00	-7.97	2.84	3	V	261	3.33	-
AV	5.2418G	90.74	Inf	-Inf	2.99	3	V	261	3.33	-
AV	5.3774G	45.20	54.00	-8.80	3.14	3	V	261	3.33	-
PK	5.1098G	56.27	74.00	-17.73	2.84	3	V	261	3.33	-
PK	5.2436G	99.12	Inf	-Inf	2.99	3	V	261	3.33	-
PK	5.3882G	56.13	74.00	-17.87	3.15	3	V	261	3.33	-

## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## 5240MHz\_TX

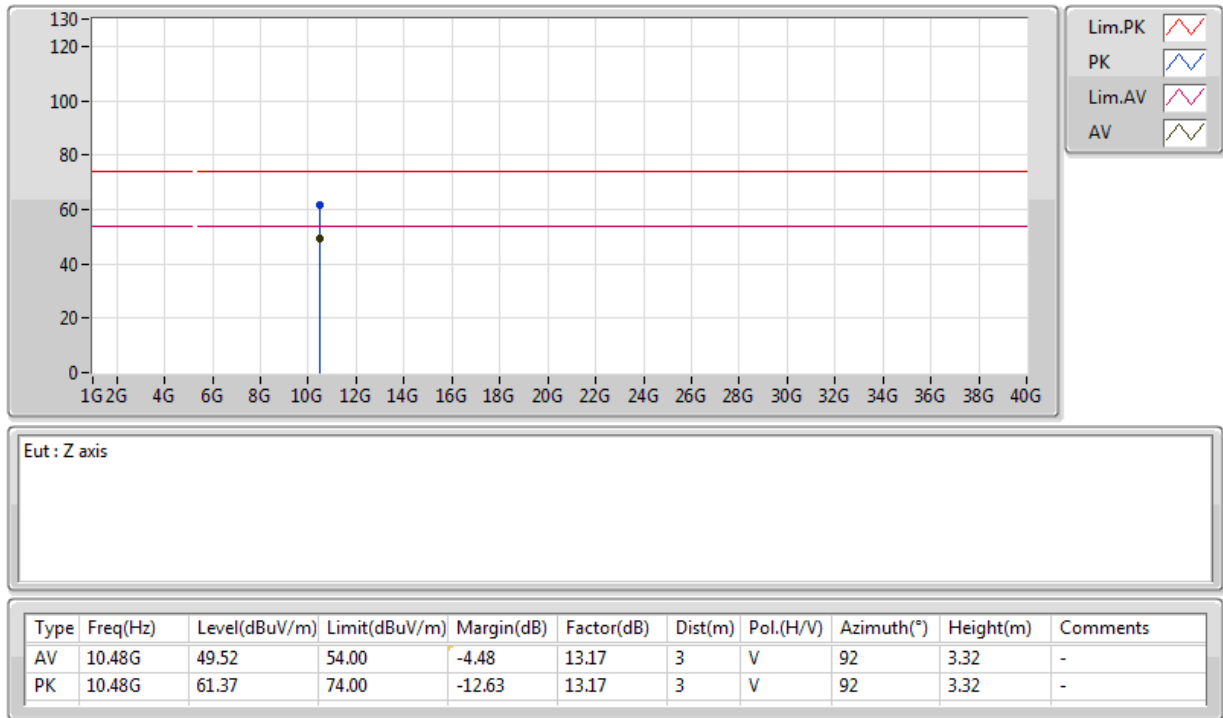


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1488G	46.20	54.00	-7.80	2.88	3	H	340	1.08	-
AV	5.2424G	98.32	Inf	-Inf	2.99	3	H	340	1.08	-
AV	5.357G	45.35	54.00	-8.65	3.11	3	H	340	1.08	-
PK	5.144G	56.70	74.00	-17.30	2.88	3	H	340	1.08	-
PK	5.2424G	106.83	Inf	-Inf	2.99	3	H	340	1.08	-
PK	5.3642G	55.70	74.00	-18.30	3.12	3	H	340	1.08	-

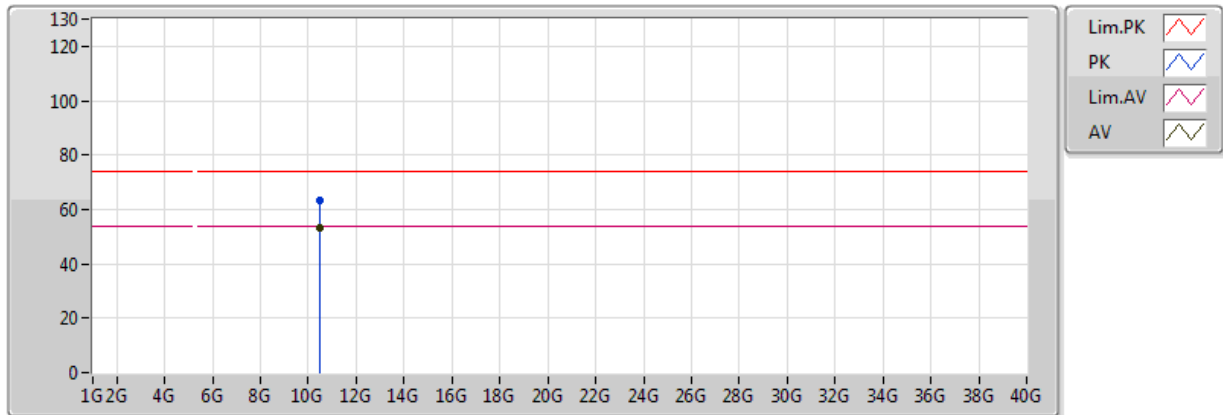
### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5240MHz\_TX



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5240MHz\_TX

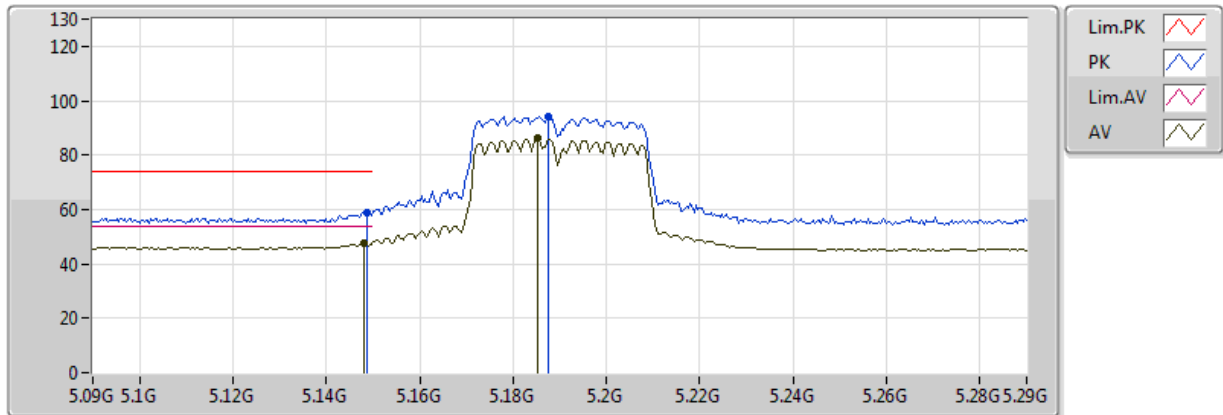


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.48G	53.44	54.00	-0.56	13.17	3	H	60	1.09	-
PK	10.48G	63.11	74.00	-10.89	13.17	3	H	60	1.09	-

## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## 5190MHz\_TX

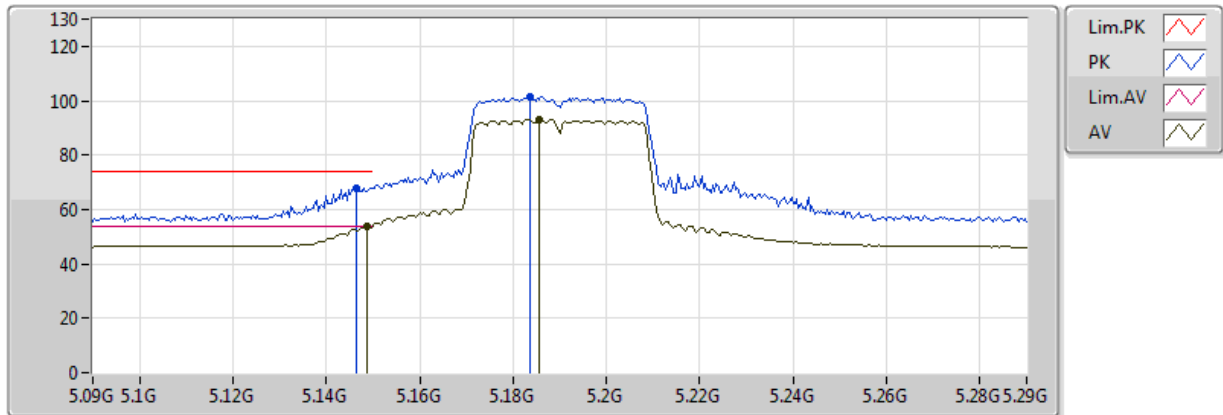


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.148G	47.74	54.00	-6.26	2.88	3	V	123	3.69	-
AV	5.1852G	86.04	Inf	-Inf	2.92	3	V	123	3.69	-
PK	5.1488G	58.61	74.00	-15.39	2.88	3	V	123	3.69	-
PK	5.1876G	94.28	Inf	-Inf	2.93	3	V	123	3.69	-

## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## 5190MHz\_TX

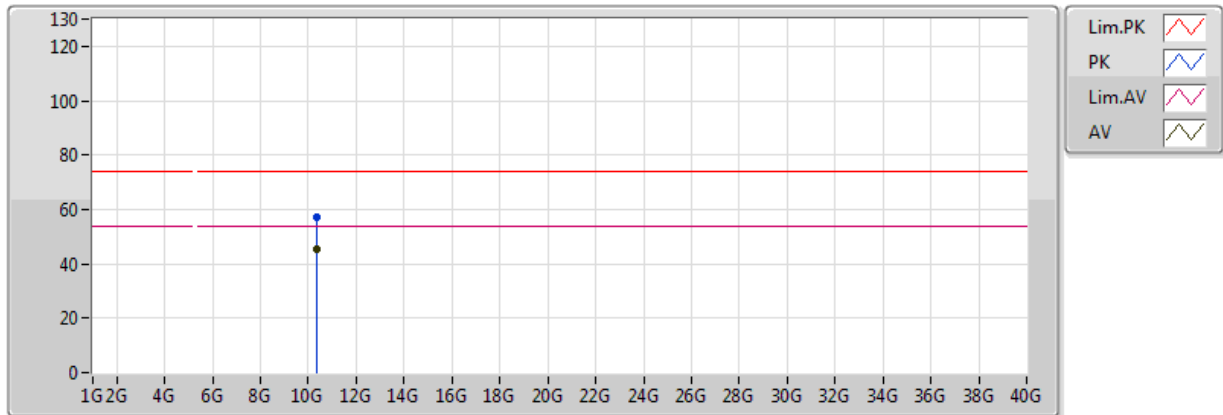


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1488G	53.89	54.00	-0.11	2.88	3	H	271	1.02	-
AV	5.1856G	92.94	Inf	-Inf	2.92	3	H	271	1.02	-
PK	5.1464G	68.08	74.00	-5.92	2.88	3	H	271	1.02	-
PK	5.1836G	101.65	Inf	-Inf	2.92	3	H	271	1.02	-

### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### 5190MHz\_TX



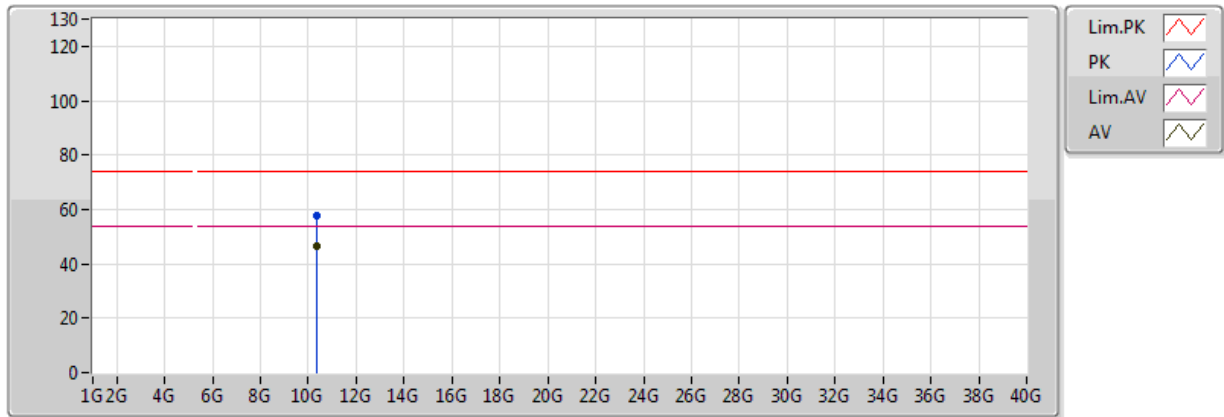
Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.38G	45.26	54.00	-8.74	12.91	3	V	64	3.33	-
PK	10.38G	56.89	74.00	-17.11	12.91	3	V	64	3.33	-



### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### 5190MHz\_TX

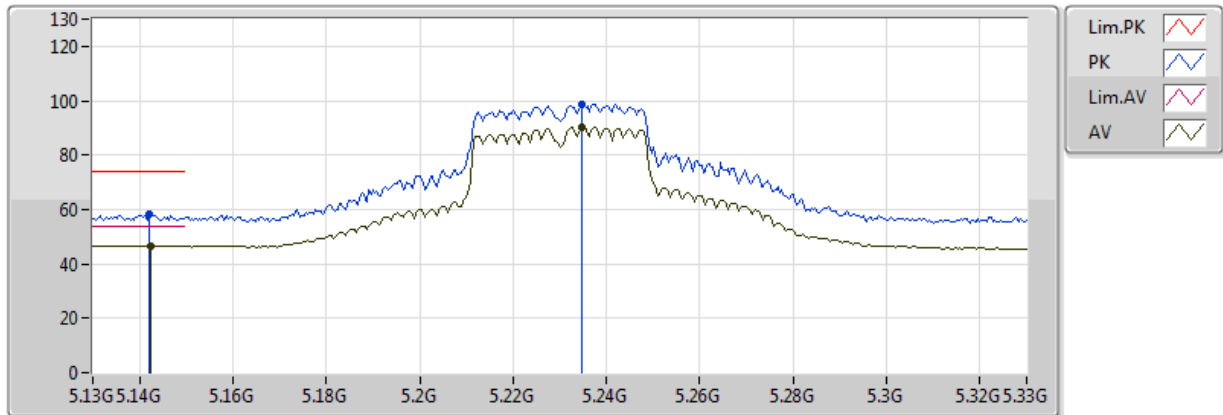


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.38G	46.63	54.00	-7.37	12.91	3	H	305	1.01	-
PK	10.38G	57.99	74.00	-16.01	12.91	3	H	305	1.01	-

## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## 5230MHz\_TX

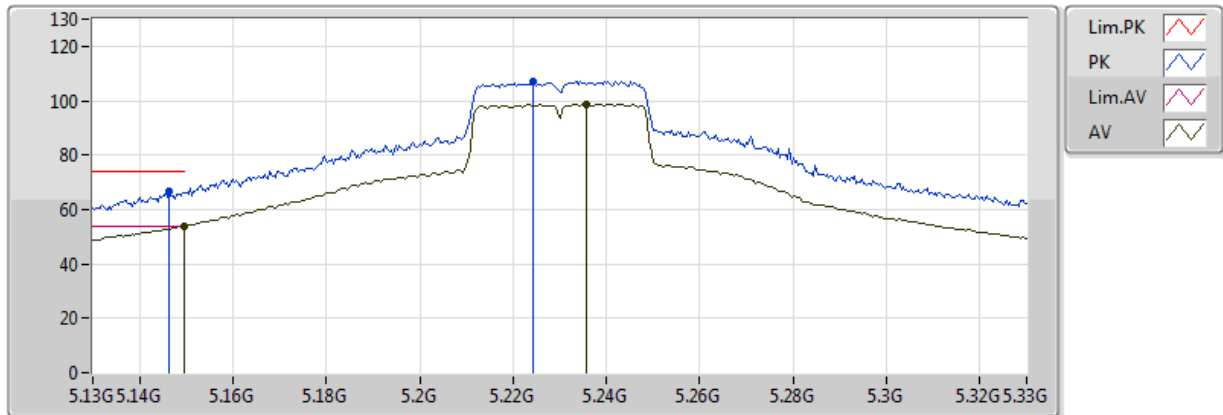


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1424G	46.70	54.00	-7.30	2.88	3	V	110	3.59	-
AV	5.2348G	90.38	Inf	-Inf	2.98	3	V	110	3.59	-
PK	5.142G	58.22	74.00	-15.78	2.88	3	V	110	3.59	-
PK	5.2348G	98.77	Inf	-Inf	2.98	3	V	110	3.59	-

## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### 5230MHz\_TX

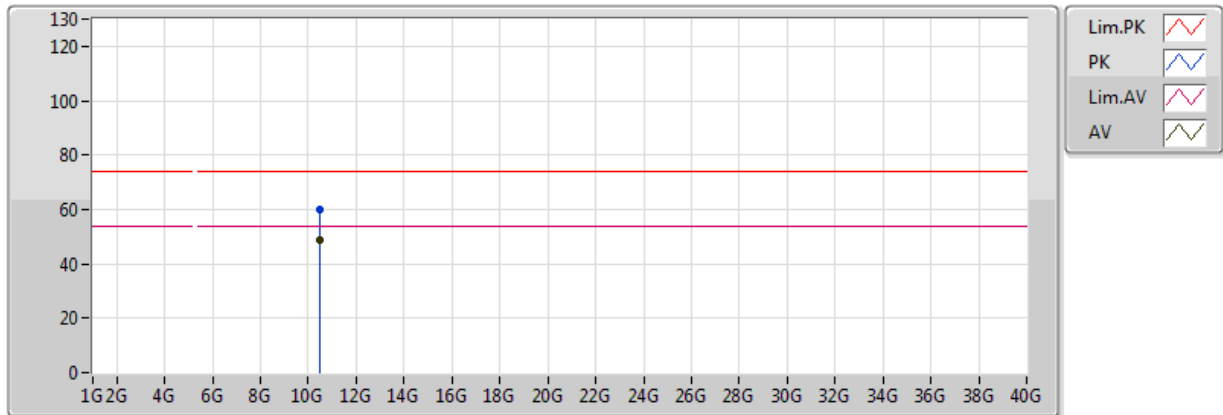


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1496G	53.76	54.00	-0.24	2.88	3	H	269	1.01	-
AV	5.2356G	98.76	Inf	-Inf	2.98	3	H	269	1.01	-
PK	5.1464G	66.89	74.00	-7.11	2.88	3	H	269	1.01	-
PK	5.2244G	107.21	Inf	-Inf	2.97	3	H	269	1.01	-

## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## 5230MHz\_TX

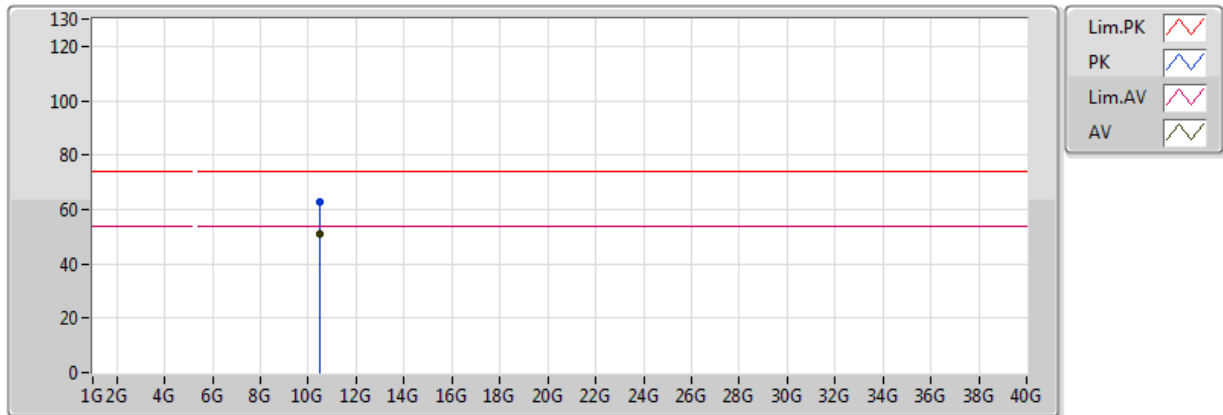


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.46G	48.82	54.00	-5.18	13.12	3	V	68	3.57	-
PK	10.46G	60.00	74.00	-14.00	13.12	3	V	68	3.57	-

### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### 5230MHz\_TX

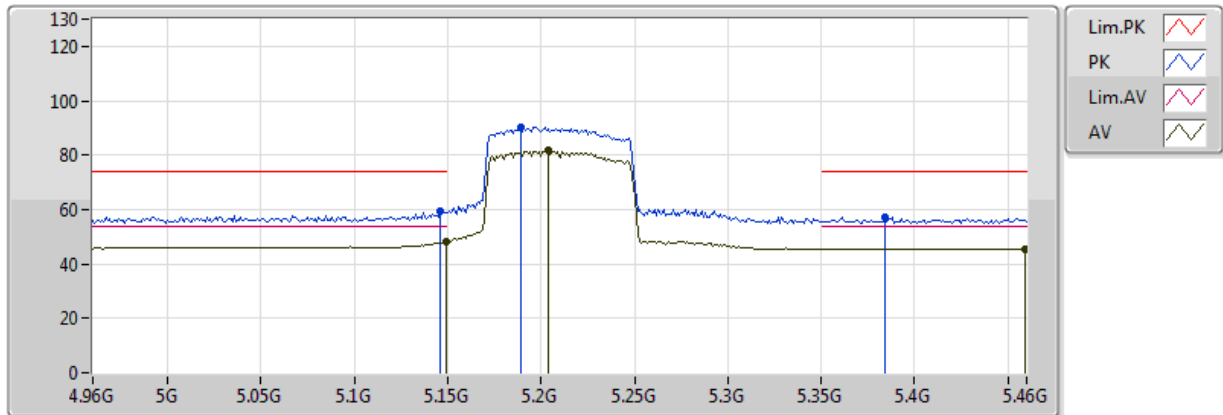


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.46G	51.03	54.00	-2.93	13.12	3	H	299	1.00	-
PK	10.46G	62.96	74.00	-11.04	13.12	3	H	299	1.00	-

## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

## 5210MHz\_TX

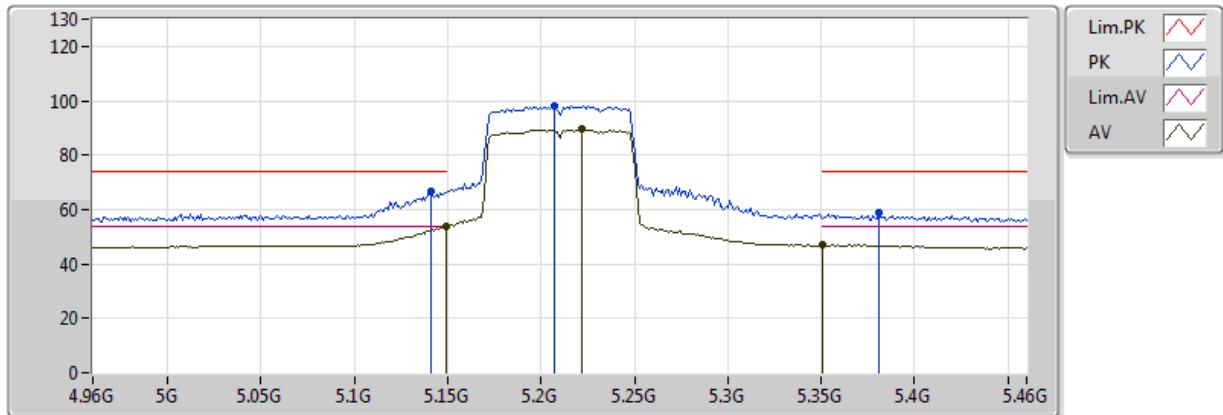


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149G	48.14	54.00	-5.86	2.88	3	V	204	3.56	-
AV	5.204G	81.64	Inf	-Inf	2.94	3	V	204	3.56	-
AV	5.459G	45.56	54.00	-8.44	3.23	3	V	204	3.56	-
PK	5.146G	59.35	74.00	-14.65	2.88	3	V	204	3.56	-
PK	5.189G	90.49	Inf	-Inf	2.93	3	V	204	3.56	-
PK	5.384G	57.07	74.00	-16.93	3.14	3	V	204	3.56	-

## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

### 5210MHz\_TX

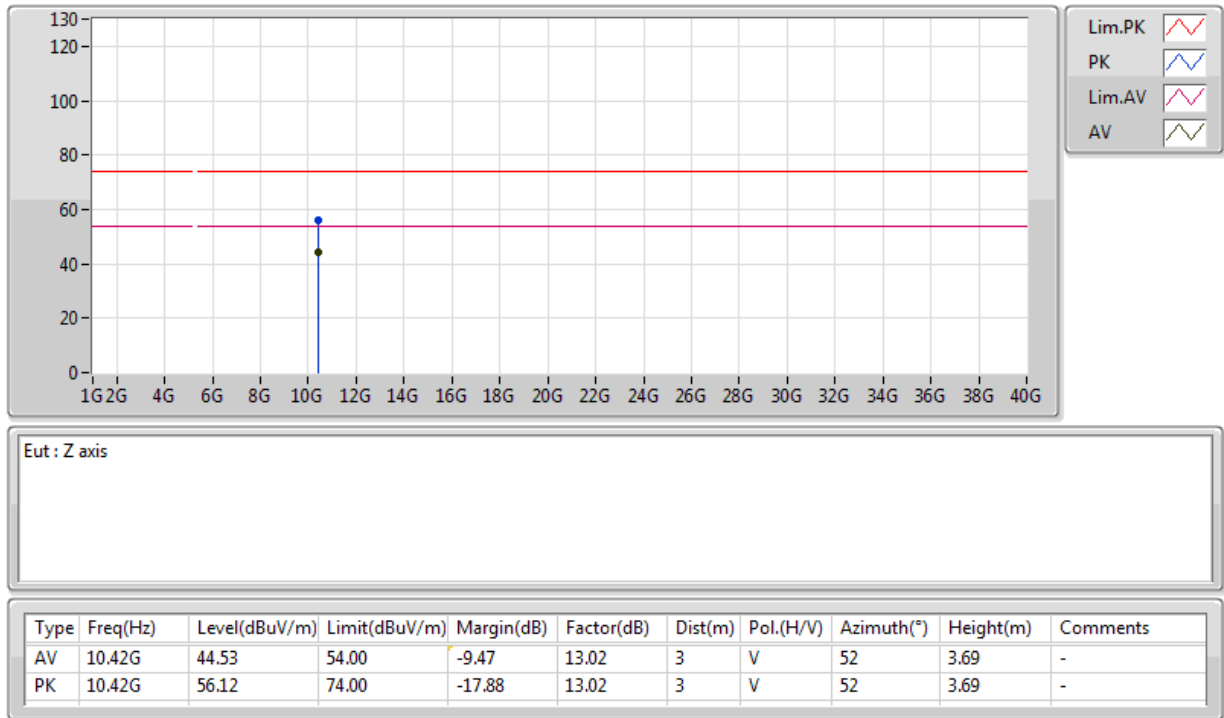


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149G	53.74	54.00	-0.26	2.88	3	H	262	1.00	-
AV	5.222G	89.38	Inf	-Inf	2.96	3	H	262	1.00	-
AV	5.351G	46.92	54.00	-7.08	3.11	3	H	262	1.00	-
PK	5.141G	66.86	74.00	-7.14	2.88	3	H	262	1.00	-
PK	5.207G	98.20	Inf	-Inf	2.95	3	H	262	1.00	-
PK	5.381G	59.05	74.00	-14.95	3.14	3	H	262	1.00	-

### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

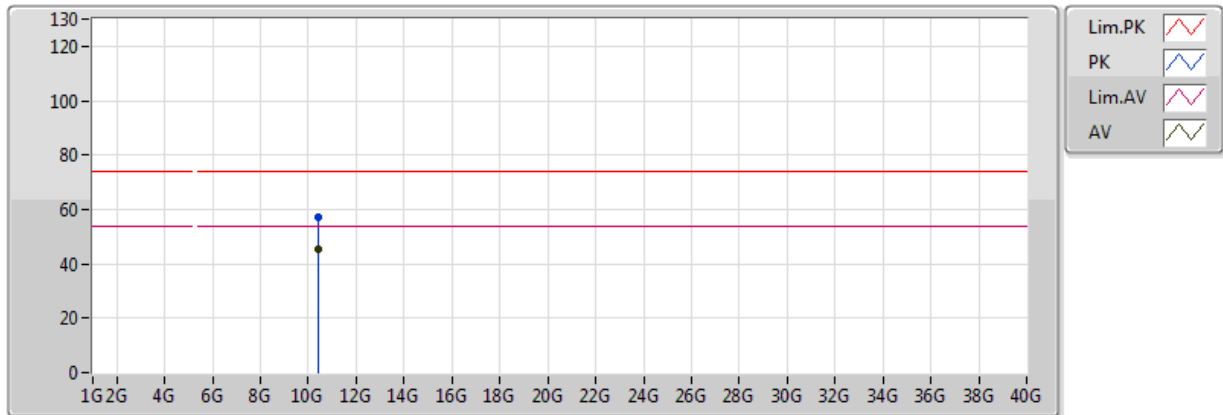
### 5210MHz\_TX





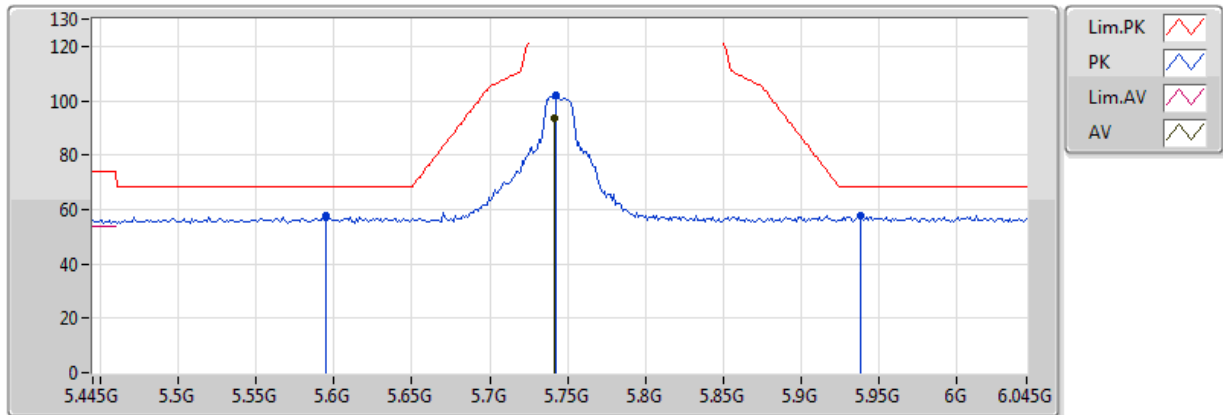
### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

### 5210MHz\_TX



Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.42G	45.36	54.00	-8.64	13.02	3	H	295	1.01	-
PK	10.42G	57.40	74.00	-16.60	13.02	3	H	295	1.01	-

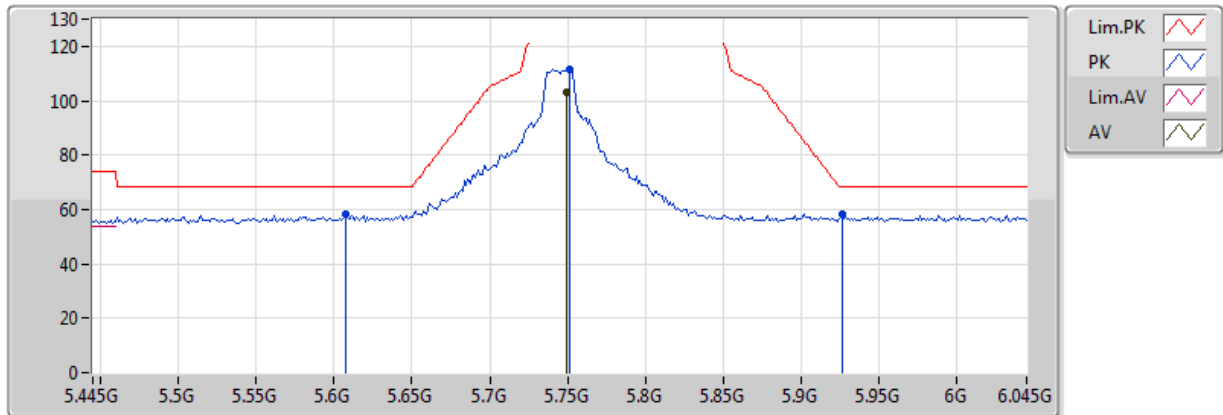
**802.11ac VHT20\_Nss1,(MCS0)\_2TX**
**5745MHz\_TX**


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7414G	93.40	Inf	-Inf	3.49	3	V	162	3.69	-
PK	5.595G	57.67	68.20	-10.53	3.37	3	V	162	3.69	-
PK	5.7426G	101.89	Inf	-Inf	3.49	3	V	162	3.69	-
PK	5.9382G	57.70	68.20	-10.50	3.66	3	V	162	3.69	-

## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## 5745MHz\_TX

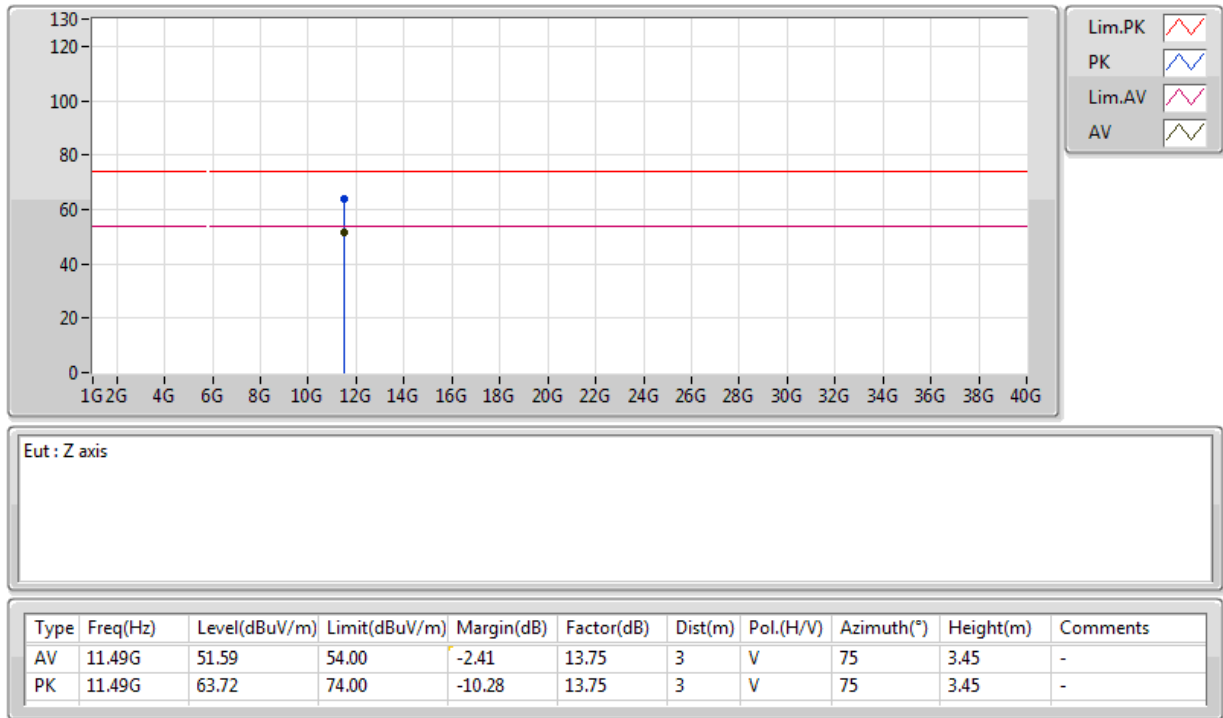


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7498G	103.09	Inf	-Inf	3.50	3	H	259	1.01	-
PK	5.607G	58.27	68.20	-9.93	3.38	3	H	259	1.01	-
PK	5.751G	111.45	Inf	-Inf	3.50	3	H	259	1.01	-
PK	5.9262G	58.40	68.20	-9.80	3.65	3	H	259	1.01	-

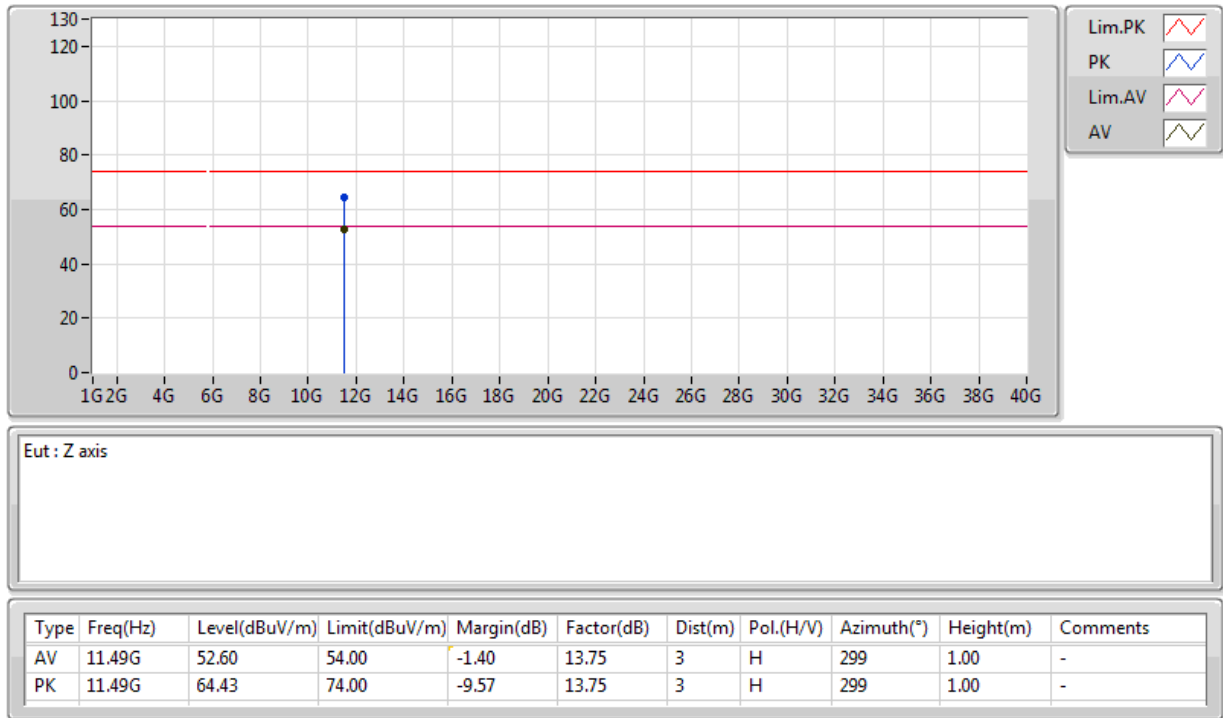
### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5745MHz\_TX



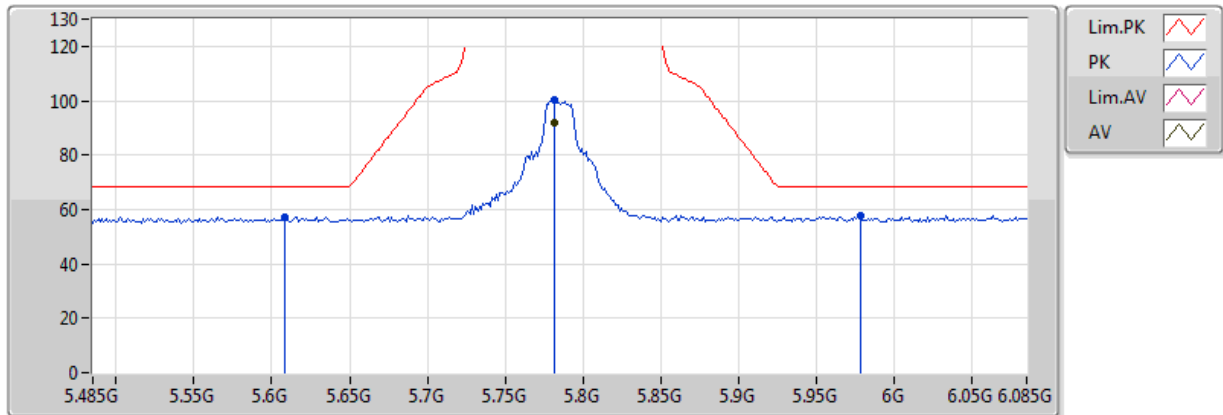
### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5745MHz\_TX



## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5785MHz\_TX

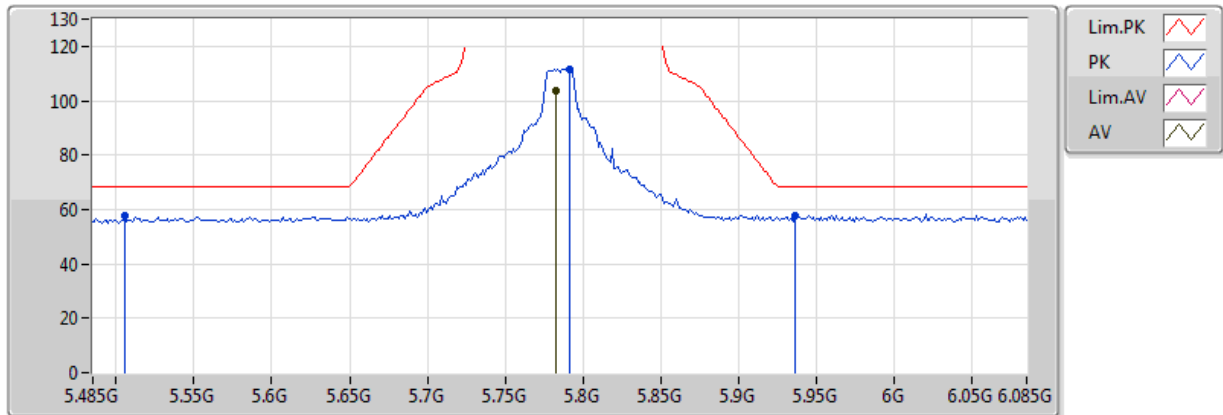


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7814G	91.67	Inf	-Inf	3.53	3	V	137	3.16	-
PK	5.6086G	57.38	68.20	-10.82	3.38	3	V	137	3.16	-
PK	5.7814G	100.39	Inf	-Inf	3.53	3	V	137	3.16	-
PK	5.9782G	57.54	68.20	-10.66	3.70	3	V	137	3.16	-

### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5785MHz\_TX

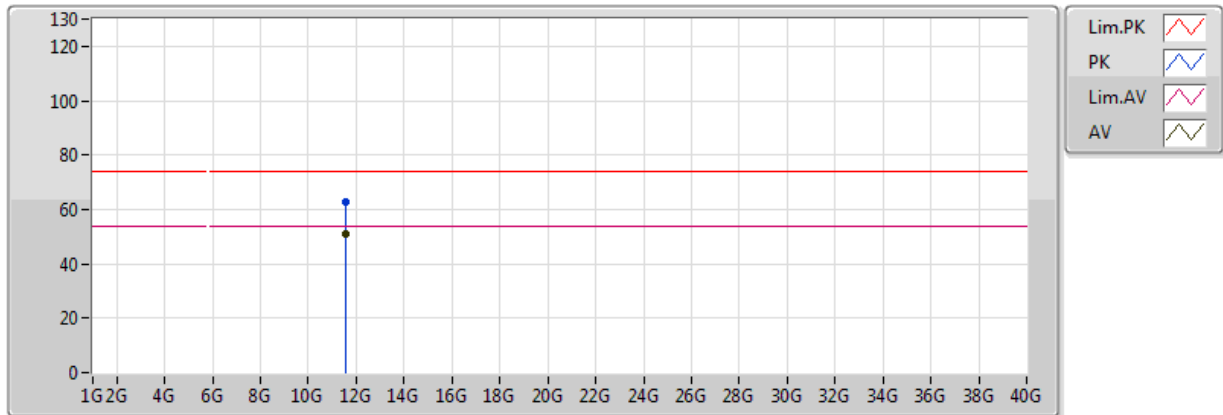


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7826G	103.54	Inf	-Inf	3.53	3	H	269	1.01	-
PK	5.5054G	57.46	68.20	-10.74	3.28	3	H	269	1.01	-
PK	5.791G	111.77	Inf	-Inf	3.53	3	H	269	1.01	-
PK	5.9362G	57.87	68.20	-10.33	3.66	3	H	269	1.01	-

## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## 5785MHz\_TX



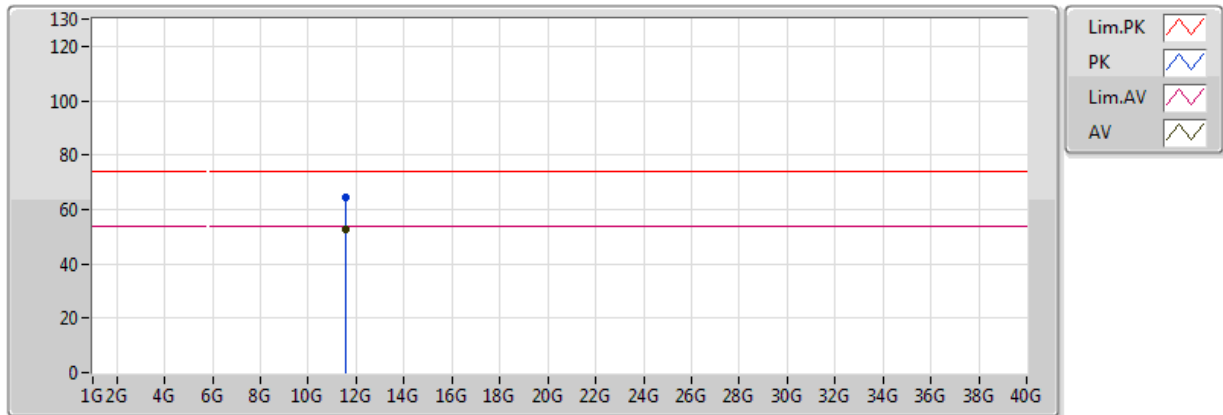
Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57G	50.97	54.00	-3.03	13.63	3	V	81	3.51	-
PK	11.57G	62.59	74.00	-11.41	13.63	3	V	81	3.51	-



## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## 5785MHz\_TX

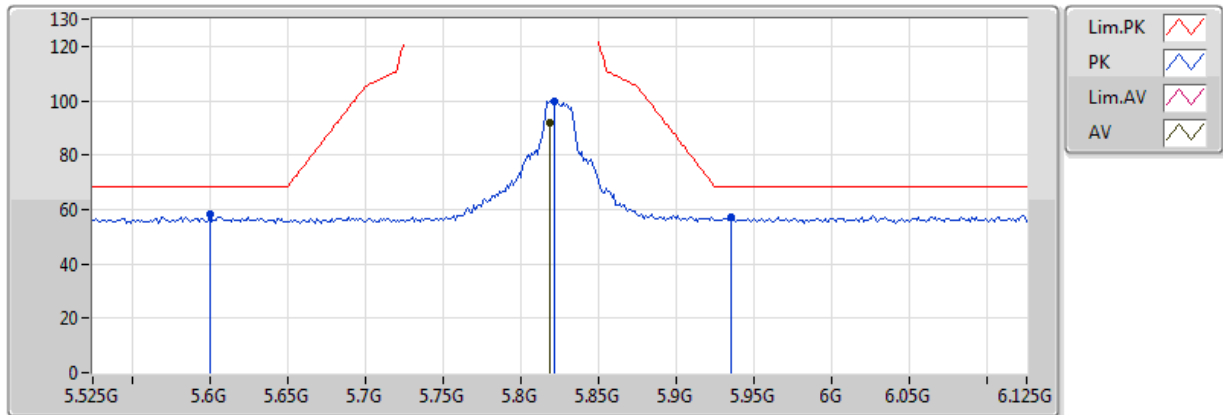


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57G	52.61	54.00	-1.39	13.63	3	H	298	1.03	-
PK	11.57G	64.22	74.00	-9.78	13.63	3	H	298	1.03	-

### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5825MHz\_TX

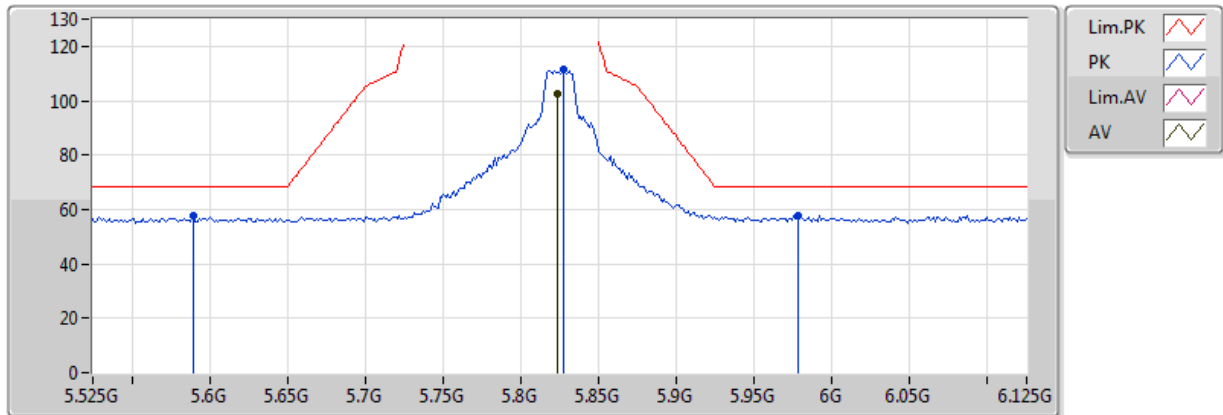


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.819G	91.74	Inf	-Inf	3.56	3	V	140	2.71	-
PK	5.6006G	58.30	68.20	-9.90	3.37	3	V	140	2.71	-
PK	5.8214G	99.88	Inf	-Inf	3.56	3	V	140	2.71	-
PK	5.9354G	57.26	68.20	-10.94	3.66	3	V	140	2.71	-

### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

### 5825MHz\_TX

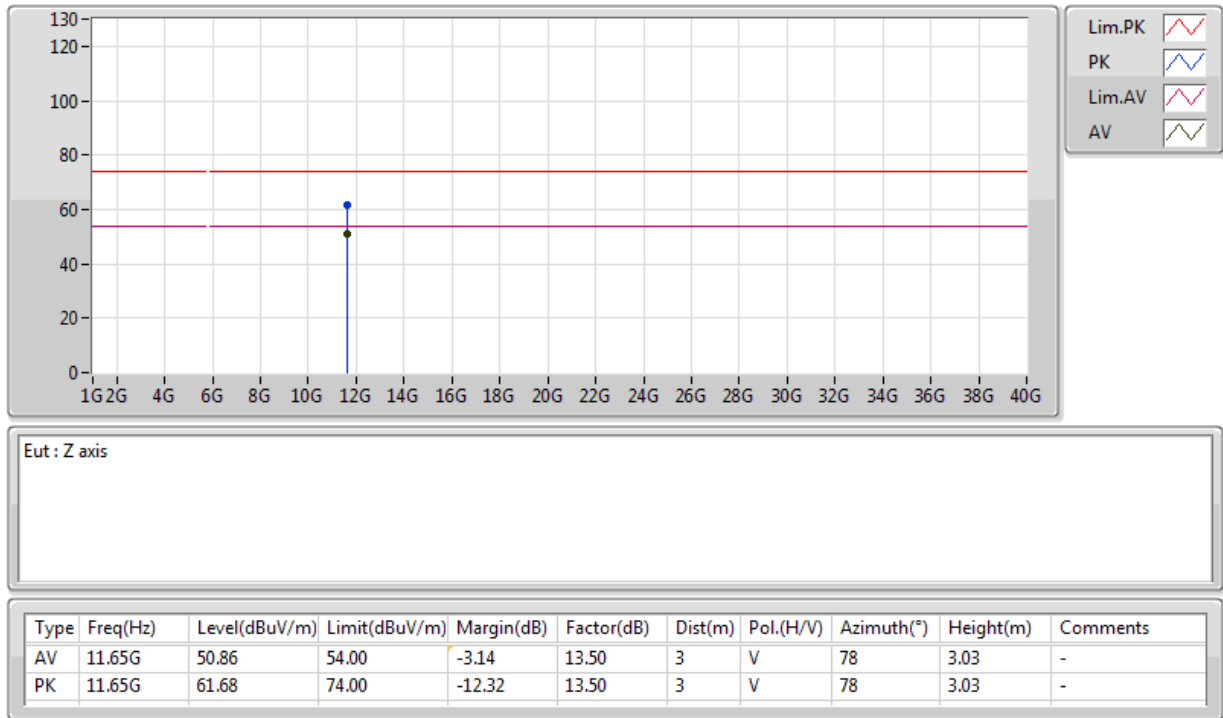


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.8238G	102.64	Inf	-Inf	3.56	3	H	273	1.02	-
PK	5.5898G	57.56	68.20	-10.64	3.36	3	H	273	1.02	-
PK	5.8274G	111.34	Inf	-Inf	3.56	3	H	273	1.02	-
PK	5.9786G	57.91	68.20	-10.29	3.70	3	H	273	1.02	-

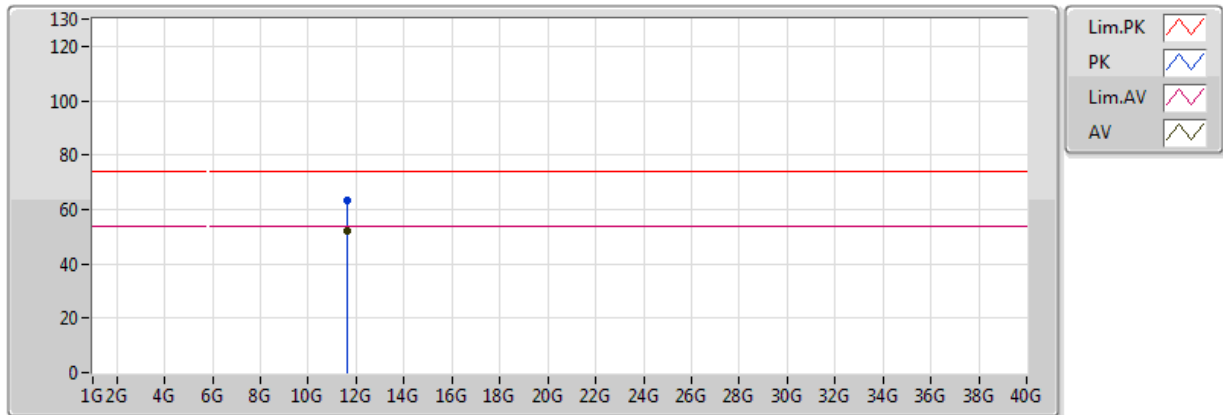
## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## 5825MHz\_TX



## 802.11ac VHT20\_Nss1,(MCS0)\_2TX

## 5825MHz\_TX

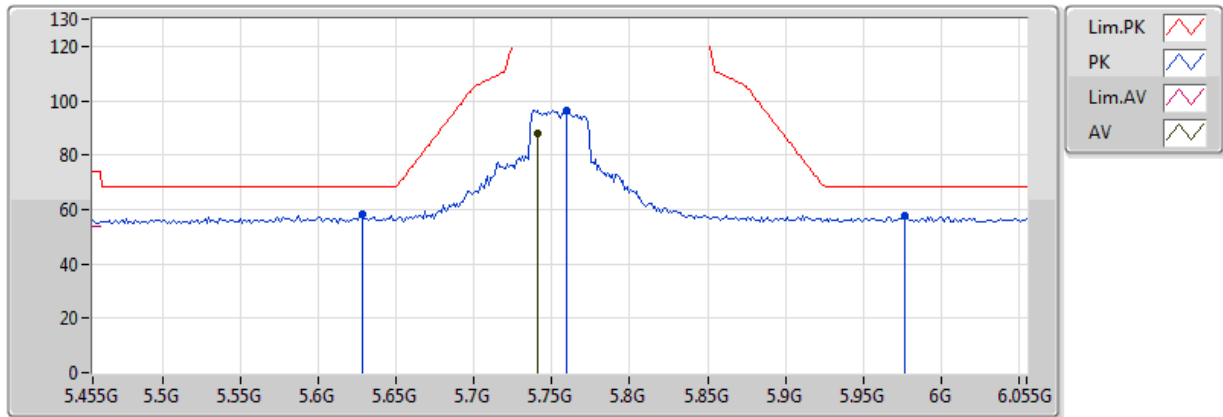


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.65G	52.11	54.00	-1.89	13.50	3	H	311	2.46	-
PK	11.65G	63.13	74.00	-10.87	13.50	3	H	311	2.46	-

## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## 5755MHz\_TX

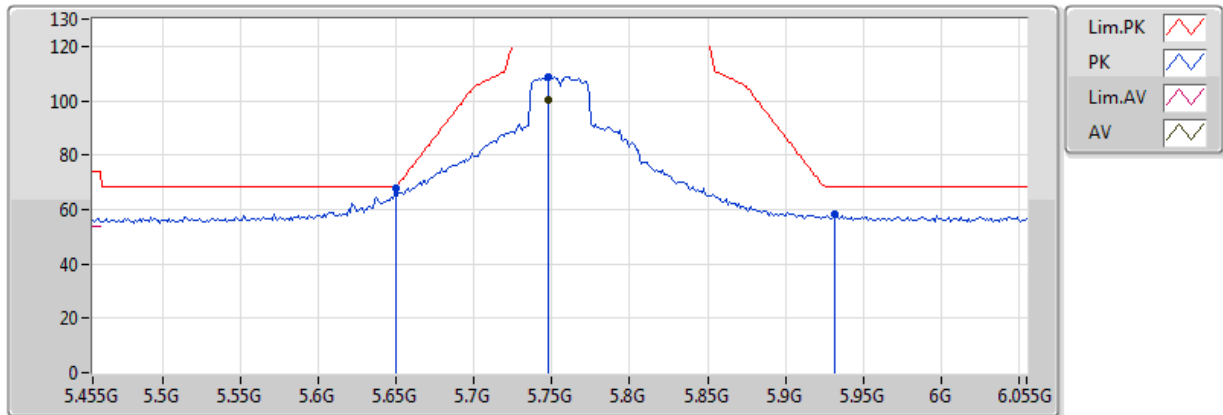


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7406G	88.25	Inf	-Inf	3.49	3	V	154	3.34	-
PK	5.6278G	58.09	68.20	-10.11	3.40	3	V	154	3.34	-
PK	5.7598G	96.52	Inf	-Inf	3.51	3	V	154	3.34	-
PK	5.977G	57.47	68.20	-10.73	3.70	3	V	154	3.34	-

### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### 5755MHz\_TX

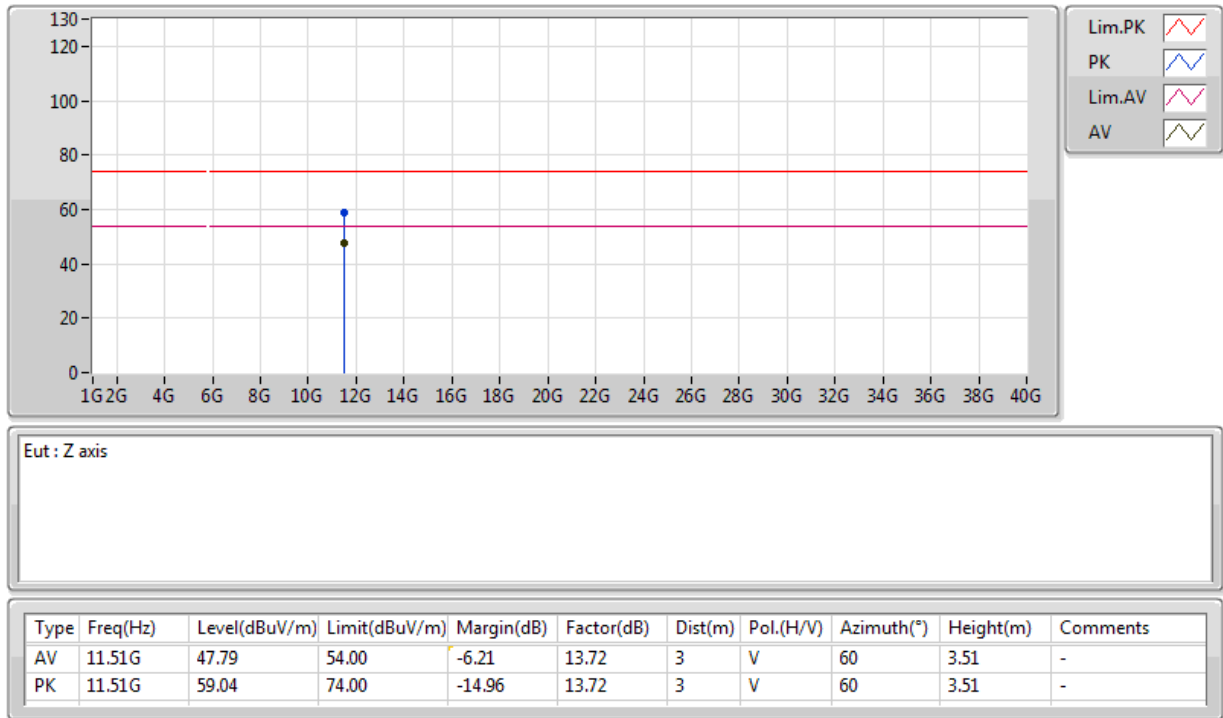


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7478G	100.17	Inf	-Inf	3.50	3	H	256	1.00	-
PK	5.6494G	67.90	68.20	-0.30	3.41	3	H	256	1.00	-
PK	5.7478G	108.63	Inf	-Inf	3.50	3	H	256	1.00	-
PK	5.9314G	58.41	68.20	-9.79	3.66	3	H	256	1.00	-

## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

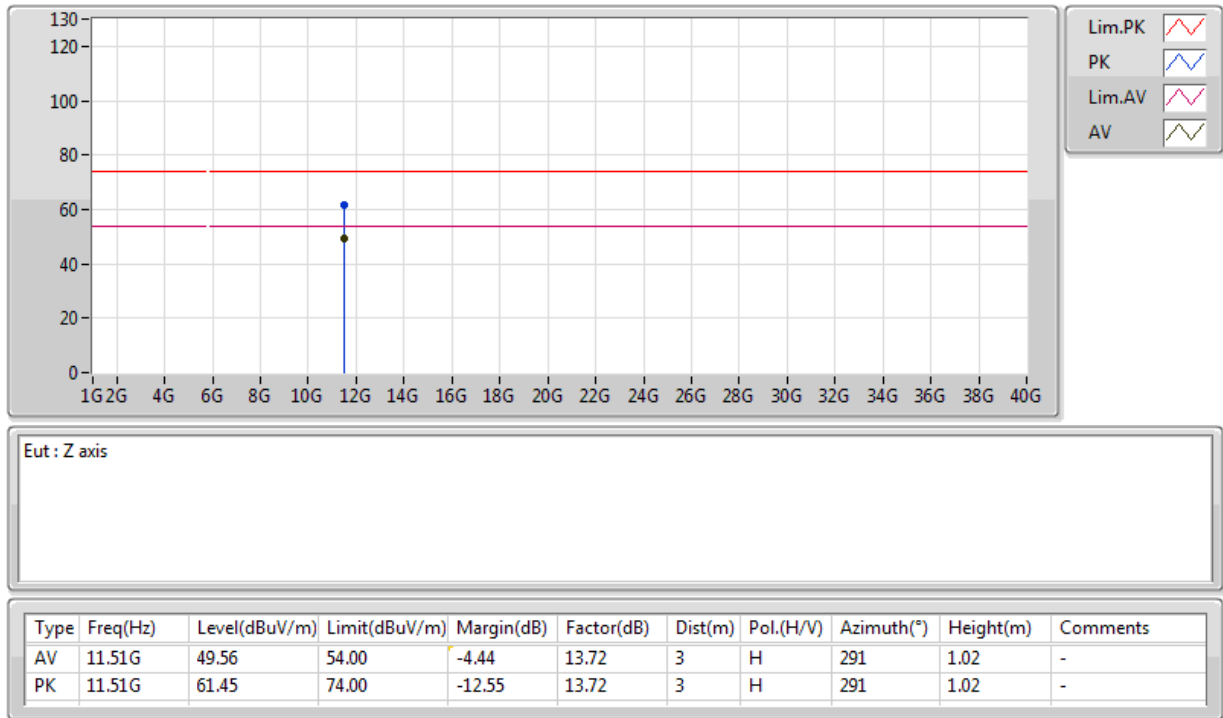
## 5755MHz\_TX





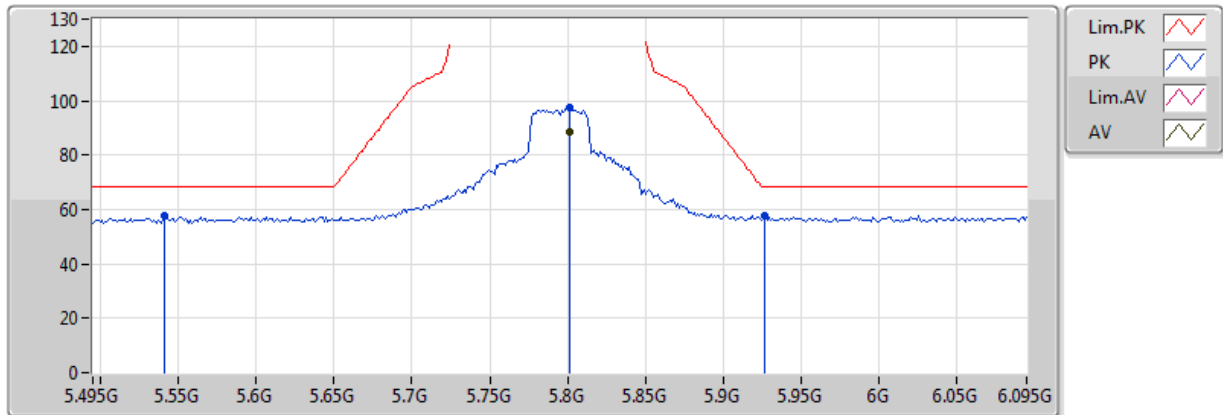
### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### 5755MHz\_TX



## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## 5795MHz\_TX

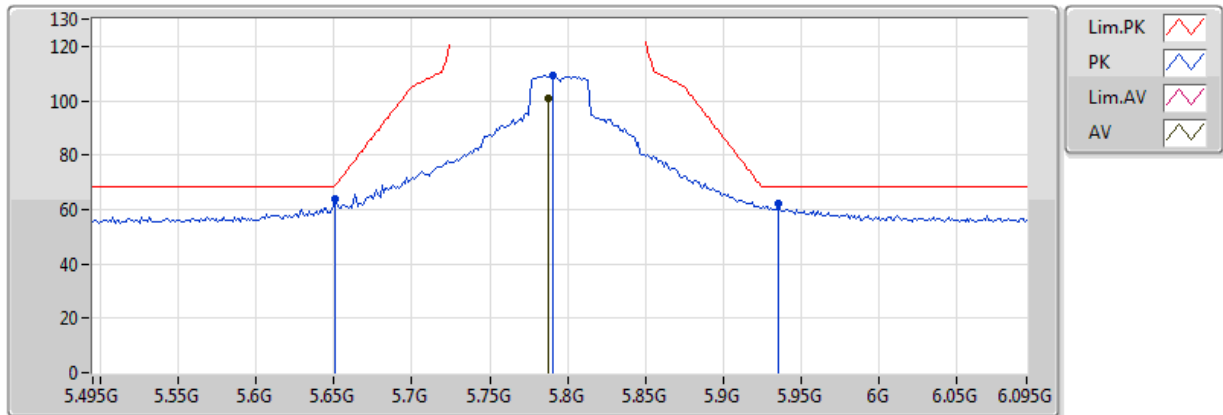


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.801G	88.63	Inf	-Inf	3.54	3	V	146	2.15	-
PK	5.5406G	57.45	68.20	-10.75	3.32	3	V	146	2.15	-
PK	5.801G	97.30	Inf	-Inf	3.54	3	V	146	2.15	-
PK	5.927G	57.51	68.20	-10.69	3.65	3	V	146	2.15	-

## 802.11ac VHT40\_Nss1,(MCS0)\_2TX

## 5795MHz\_TX

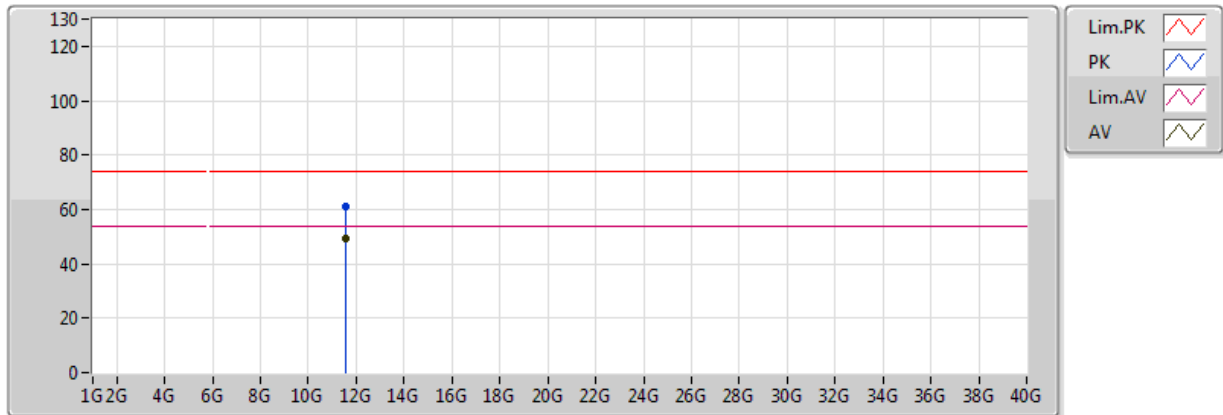


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7878G	101.13	Inf	-Inf	3.53	3	H	262	1.01	-
PK	5.651G	63.64	68.94	-5.30	3.42	3	H	262	1.01	-
PK	5.7902G	109.40	Inf	-Inf	3.53	3	H	262	1.01	-
PK	5.9354G	62.16	68.20	-6.04	3.66	3	H	262	1.01	-

### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### 5795MHz\_TX

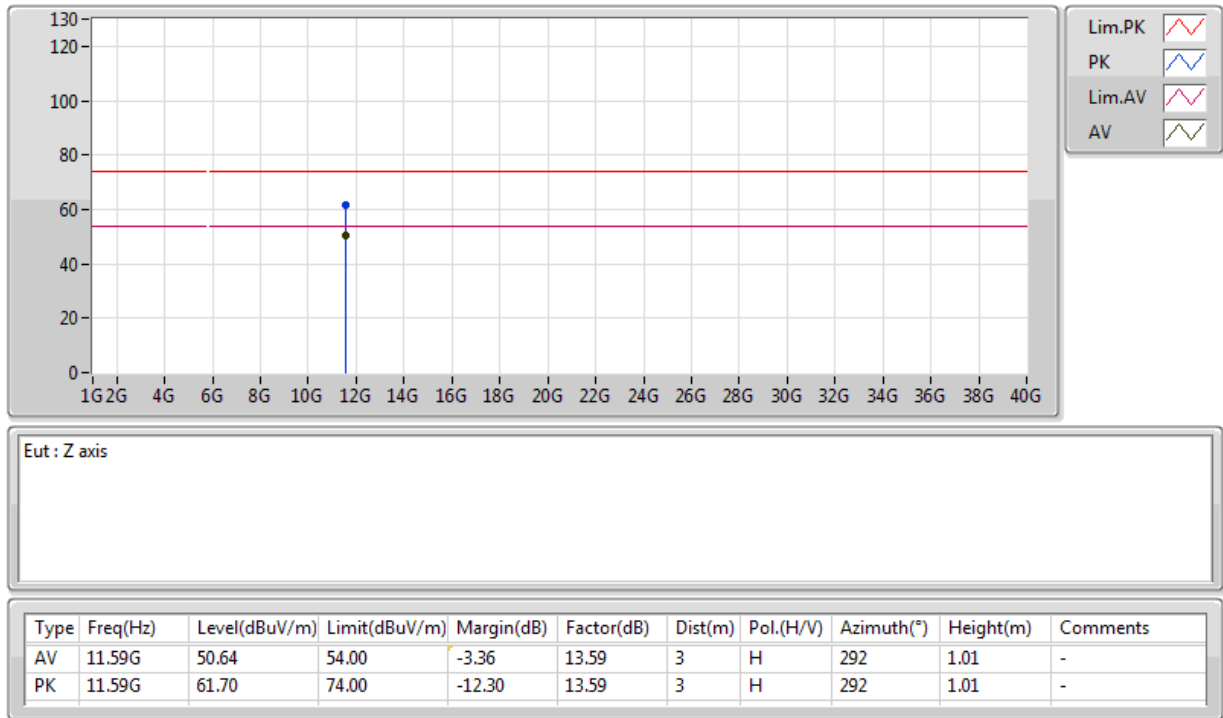


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.59G	49.16	54.00	-4.84	13.59	3	V	69	2.93	-
PK	11.59G	60.83	74.00	-13.17	13.59	3	V	69	2.93	-

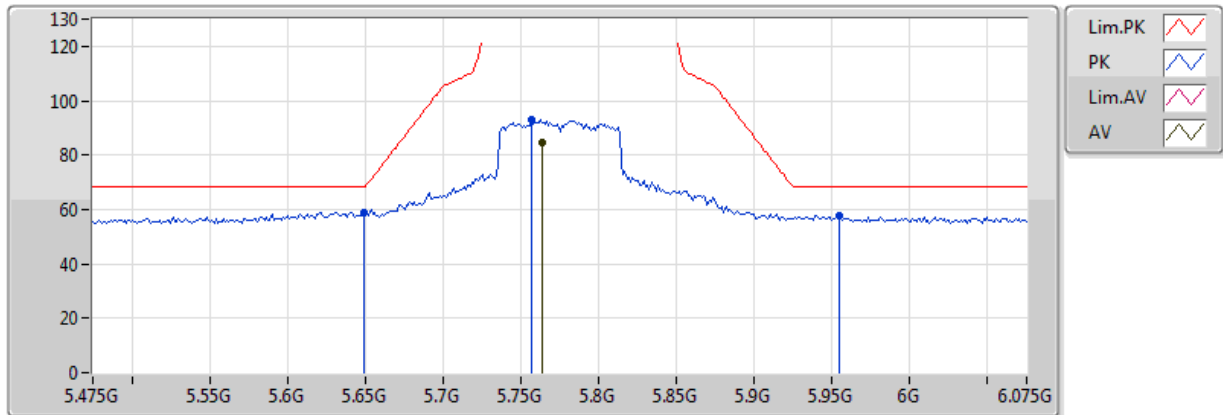
### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

### 5795MHz\_TX



## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

## 5775MHz\_TX

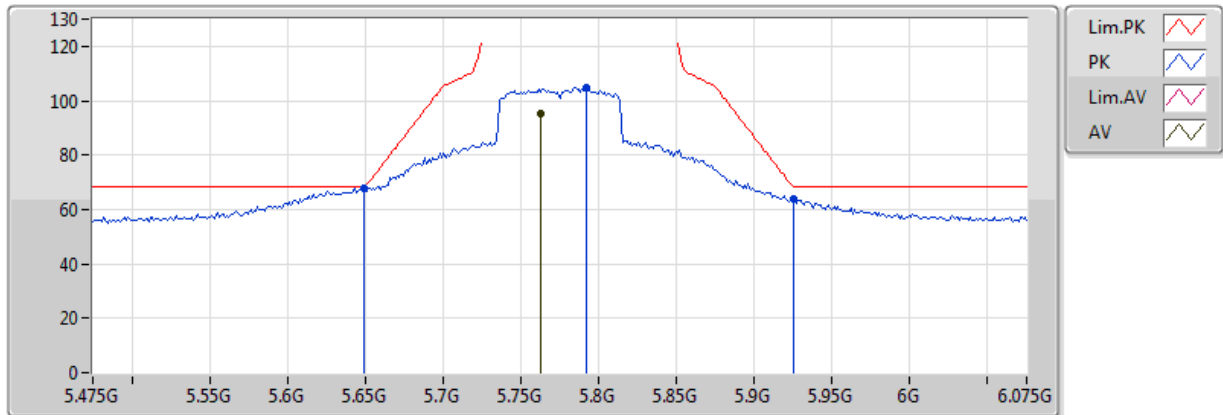


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7642G	84.54	Inf	-Inf	3.51	3	V	125	2.72	-
PK	5.649G	59.07	68.20	-9.13	3.41	3	V	125	2.72	-
PK	5.757G	93.14	Inf	-Inf	3.51	3	V	125	2.72	-
PK	5.955G	57.70	68.20	-10.50	3.68	3	V	125	2.72	-

## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

## 5775MHz\_TX

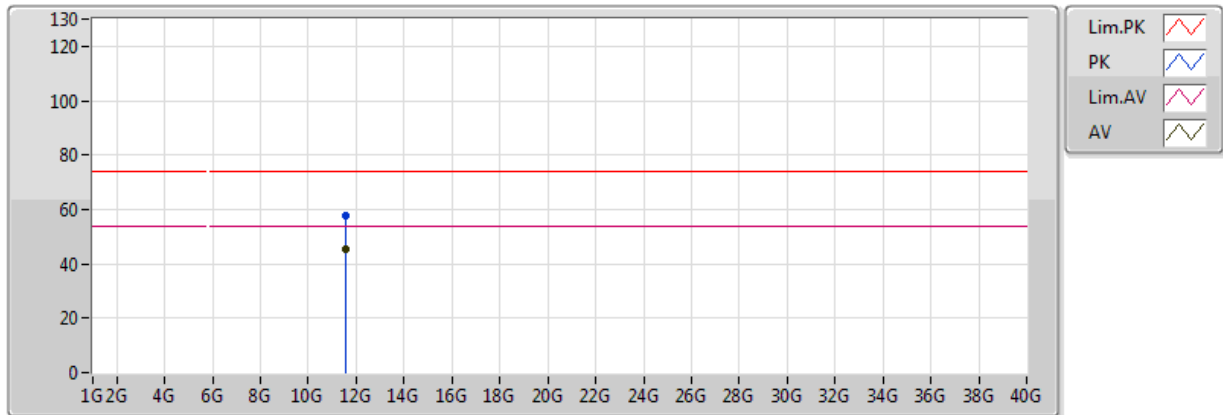


Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.763G	95.52	Inf	-Inf	3.51	3	H	263	1.00	-
PK	5.649G	67.92	68.20	-0.28	3.41	3	H	263	1.00	-
PK	5.7918G	104.73	Inf	-Inf	3.53	3	H	263	1.00	-
PK	5.925G	63.62	68.20	-4.58	3.65	3	H	263	1.00	-

## 802.11ac VHT80\_Nss1,(MCS0)\_2TX

## 5775MHz\_TX



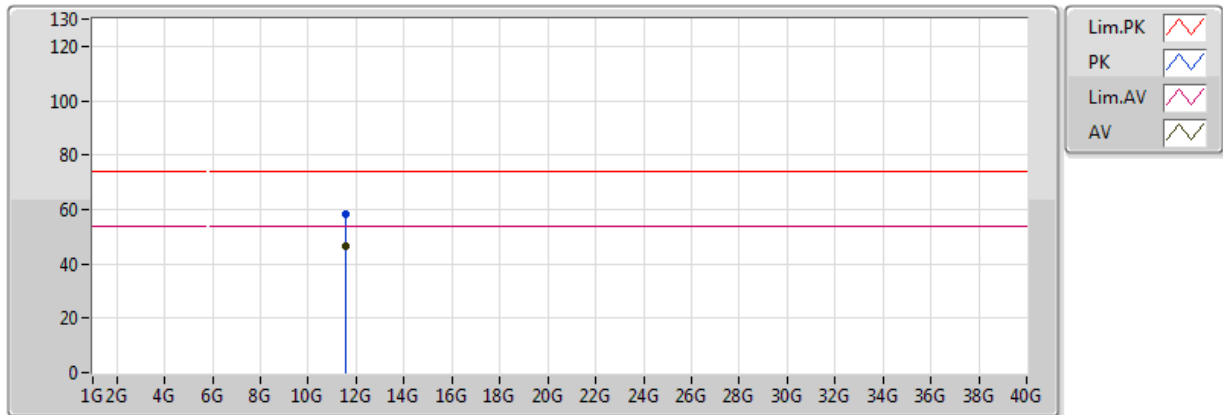
Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.55G	45.59	54.00	-8.41	13.66	3	V	61	3.67	-
PK	11.55G	57.74	74.00	-16.26	13.66	3	V	61	3.67	-



### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

### 5775MHz\_TX



Eut : Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.55G	46.50	54.00	-7.50	13.66	3	H	296	1.00	-
PK	11.55G	58.38	74.00	-15.62	13.66	3	H	296	1.00	-



## Frequency Stability Result

Appendix F

### Summary

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
802.11a_(6Mbps)_2TX	-	-	-	-	-	-	-
5.15-5.25GHz	Pass	5.2G	5.1999593G	7.827	20	1	10 min

## Result

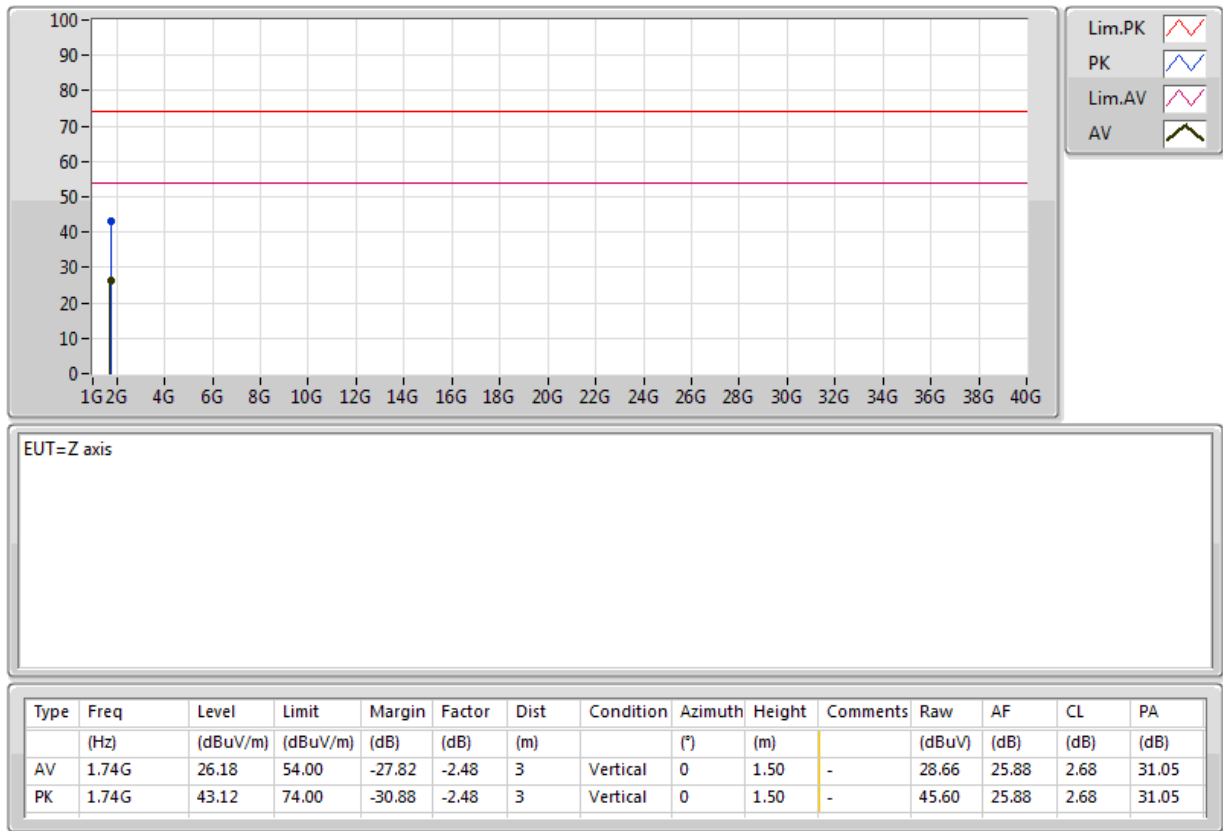
Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
802.11a_(6Mbps)_2TX	-	-	-	-	-	-	-
5200MHz_0°C	Pass	5.2G	5.2000265G	5.096	20	1	0 min
5200MHz_0°C	Pass	5.2G	5.20002649G	5.094	20	1	2 min
5200MHz_0°C	Pass	5.2G	5.20002649G	5.094	20	1	5 min
5200MHz_0°C	Pass	5.2G	5.2000265G	5.096	20	1	10 min
5200MHz_10°C	Pass	5.2G	5.2000065G	1.25	20	1	0 min
5200MHz_10°C	Pass	5.2G	5.20000646G	1.243	20	1	2 min
5200MHz_10°C	Pass	5.2G	5.20000648G	1.246	20	1	5 min
5200MHz_10°C	Pass	5.2G	5.20000647G	1.245	20	1	10 min
5200MHz_20°C	Pass	5.2G	5.19998634G	2.628	20	1	0 min
5200MHz_20°C	Pass	5.2G	5.19998633G	2.629	20	1	2 min
5200MHz_20°C	Pass	5.2G	5.19998635G	2.626	20	1	5 min
5200MHz_20°C	Pass	5.2G	5.19998635G	2.625	20	1	10 min
5200MHz_30°C	Pass	5.2G	5.19997018G	5.735	20	1	0 min
5200MHz_30°C	Pass	5.2G	5.19997017G	5.736	20	1	2 min
5200MHz_30°C	Pass	5.2G	5.19997015G	5.739	20	1	5 min
5200MHz_30°C	Pass	5.2G	5.19997015G	5.741	20	1	10 min
5200MHz_40°C	Pass	5.2G	5.1999593G	7.826	20	1	0 min
5200MHz_40°C	Pass	5.2G	5.19995932G	7.824	20	1	2 min
5200MHz_40°C	Pass	5.2G	5.19995931G	7.824	20	1	5 min
5200MHz_40°C	Pass	5.2G	5.1999593G	7.827	20	1	10 min
5200MHz_138V	Pass	5.2G	5.19998384G	3.107	20	1	0 min
5200MHz_138V	Pass	5.2G	5.19998382G	3.112	20	1	2 min
5200MHz_138V	Pass	5.2G	5.19998381G	3.113	20	1	5 min
5200MHz_138V	Pass	5.2G	5.19998382G	3.111	20	1	10 min
5200MHz_120V	Pass	5.2G	5.19998514G	2.857	20	1	0 min
5200MHz_120V	Pass	5.2G	5.19998517G	2.851	20	1	2 min
5200MHz_120V	Pass	5.2G	5.19998516G	2.854	20	1	5 min
5200MHz_120V	Pass	5.2G	5.19998517G	2.851	20	1	10 min
5200MHz_102V	Pass	5.2G	5.19999118G	1.696	20	1	0 min
5200MHz_102V	Pass	5.2G	5.19999118G	1.696	20	1	2 min
5200MHz_102V	Pass	5.2G	5.19999117G	1.698	20	1	5 min
5200MHz_102V	Pass	5.2G	5.19999116G	1.699	20	1	10 min



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode1	Pass	AV	2.14G	28.56	54.00	-25.44	-0.97	3	Horizontal	360	1.50	-

### Radiated-above 1GHz\_Mode1



### Radiated-above 1GHz\_Mode1

