



# FCC Test Report

**Equipment** : AC1350 Wireless Dual Band Router  
**Brand Name** : TP-Link  
**Model No.** : Archer C59  
**FCC ID** : TE7C59V3  
**Standard** : 47 CFR FCC Part 15.407  
**Operating Band** : 5150 MHz – 5250 MHz  
5725 MHz – 5850 MHz  
**Applicant** : TP-Link Technologies Co., Ltd.  
Building 24 (floors 1,3,4,5) and 28 (floors1-4),Central  
Science and Technology Park,Nanshan  
Shenzhen,518057 China  
**Manufacturer** : TP-Link Technologies Co., Ltd.  
Building 24 (floors 1,3,4,5) and 28 (floors1-4),Central  
Science and Technology Park,Nanshan  
Shenzhen,518057 China  
**Function** :  Outdoor;  Indoor;  Fixed P2P  
 Client

The product sample received on Apr. 18, 2017 and completely tested on May 25, 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.

  
Cliff Chang  
SPORTON INTERNATIONAL INC.





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**PHOTOGRAPHS OF EUT V01**



### Summary of Test Result

Conformance Test Specifications			
Report Clause	Ref. Std. Clause	Description	Result
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.207	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



## Revision History

Report No.	Version	Description	Issued Date
FR651919-01AB	Rev. 01	Initial issue of report	Jun. 07, 2017



# 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	802.11n HT20	20	2TX
5.15-5.25GHz	802.11n HT20-BF	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT20-BF	20	2TX
5.15-5.25GHz	802.11n HT40	40	2TX
5.15-5.25GHz	802.11n HT40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ac VHT80-BF	80	2TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20-BF	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11n HT40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80-BF	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.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						2.4GHz	5GHz
1	1	TP-Link	3101500863	Omni-Directional	I-PEX	2.70	3.87
2	2	TP-Link	3101500863	Omni-Directional	I-PEX	2.70	3.87
3	3	TP-Link	3101500862	Omni-Directional	I-PEX	3.27	-

Note: The EUT has three antennas.

<For 2.4GHz Band>

**For IEEE 802.11b/g/n mode (3TX/3RX)**

Port 1, Port 2 and Port 3 can be used as transmitting/receiving antenna.

Port 1, Port 2 and Port 3 could transmit/receive simultaneously.

<For 5GHz Band>

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)
802.11a	0.972	0.123
802.11ac VHT20	0.987	0.057
802.11ac VHT20-BF	0.903	0.443
802.11ac VHT40	0.975	0.11
802.11ac VHT40-BF	0.913	0.395
802.11ac VHT80	0.946	0.241
802.11ac VHT80-BF	0.879	0.56

1.1.4 EUT Operational Condition

<b>EUT Power Type</b>	From Power Adapter		
<b>Beamforming Function</b>	<input checked="" type="checkbox"/>	With beamforming for 802.11ac in 5GHz	<input type="checkbox"/> Without beamforming

## 1.2 Testing Applied Standards

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

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

## 1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Brian Sun	22°C / 54%	May 19, 2017
Radiated	03CH01-CB	Zero Chen / Mason Chen	22°C / 54%	May 15, 2017~ May 24, 2017
AC Conduction	CO02-CB	Wei Li	23°C / 56%	May 25, 2017

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

## 1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74 x 10 <sup>-8</sup>	Confidence levels of 95%
Frequency Stability	6.06 x 10 <sup>-8</sup>	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

Mode	Power Setting
802.11a_(6Mbps)_2TX	-
5180MHz	18
5200MHz	18.5
5240MHz	19.5
5745MHz	23
5785MHz	23
5825MHz	23
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	19
5200MHz	19
5240MHz	20
5745MHz	23
5785MHz	23
5825MHz	23
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	13
5230MHz	21
5755MHz	23
5795MHz	23
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	12.5
5775MHz	20
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	18
5200MHz	19
5240MHz	20
5745MHz	26
5785MHz	26
5825MHz	26
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	13
5230MHz	21
5755MHz	26
5795MHz	26
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	13
5775MHz	21





Note:

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

## 2.2 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	WLAN 2.4GHz
2	WLAN 5GHz
For operating mode 2 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Emissions in Restricted Frequency Bands
<b>Test Condition</b>	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
<b>Operating Mode &lt; 1GHz</b>	CTX
Y-axis generated the worst result for Radiated Emissions test <Above 1GHz>, thus the measurement will follow this same test configuration.	
1	WLAN 2.4GHz_EUT at Y-axis
2	WLAN 5GHz_EUT at Y-axis
For operating mode 1 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX
The EUT can be placed in Y-axis and Z-axis. After evaluating, Y-axis was the worst case, so it's recorded in this report.	
1	5G WLAN_EUT at Y-axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
The EUT can be placed in Y-axis and Z-axis. After evaluating, Y-axis was the worst case, so it's recorded in this report.	
1	WLAN 2.4GHz + WLAN 5GHz_EUT at Y-axis
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	CTX
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA651919-01 for Co-location RF Exposure Evaluation.	

### 2.3 EUT Operation during Test

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN XP were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Device and transmit duty cycle no less 98%.



### 2.4 Accessories

Accessories				
No.	Equipment Name	Brand Name	Model Name	Rating
1	Adapter	TP-LINK	T120100-2B1	INPUT: 100-240V ~50/60Hz 0.3A OUTPUT: 12V, 1A

### 2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	DoC

For Test Site No: 03CH01-CB (Below 1GHz)

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

<For Non-Beamforming Mode>

For Test Site No: 03CH01-CB (Above 1GHz)

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

<For Beamforming Mode>

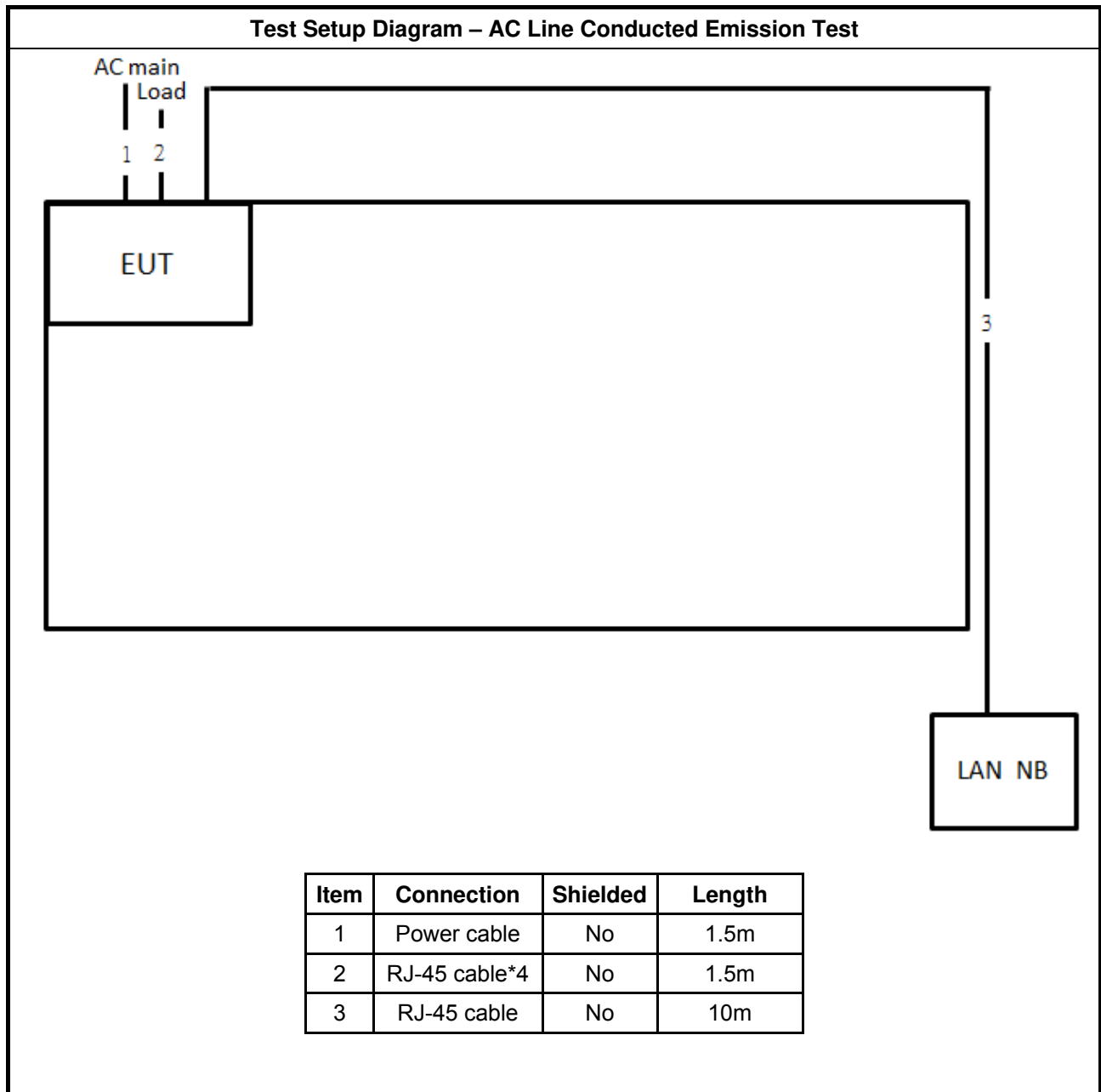
For Test Site No: 03CH01-CB (Above 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	NB	DELL	E4300	DoC
3	Device	TP-Link	Archer C59	TE7C59V3

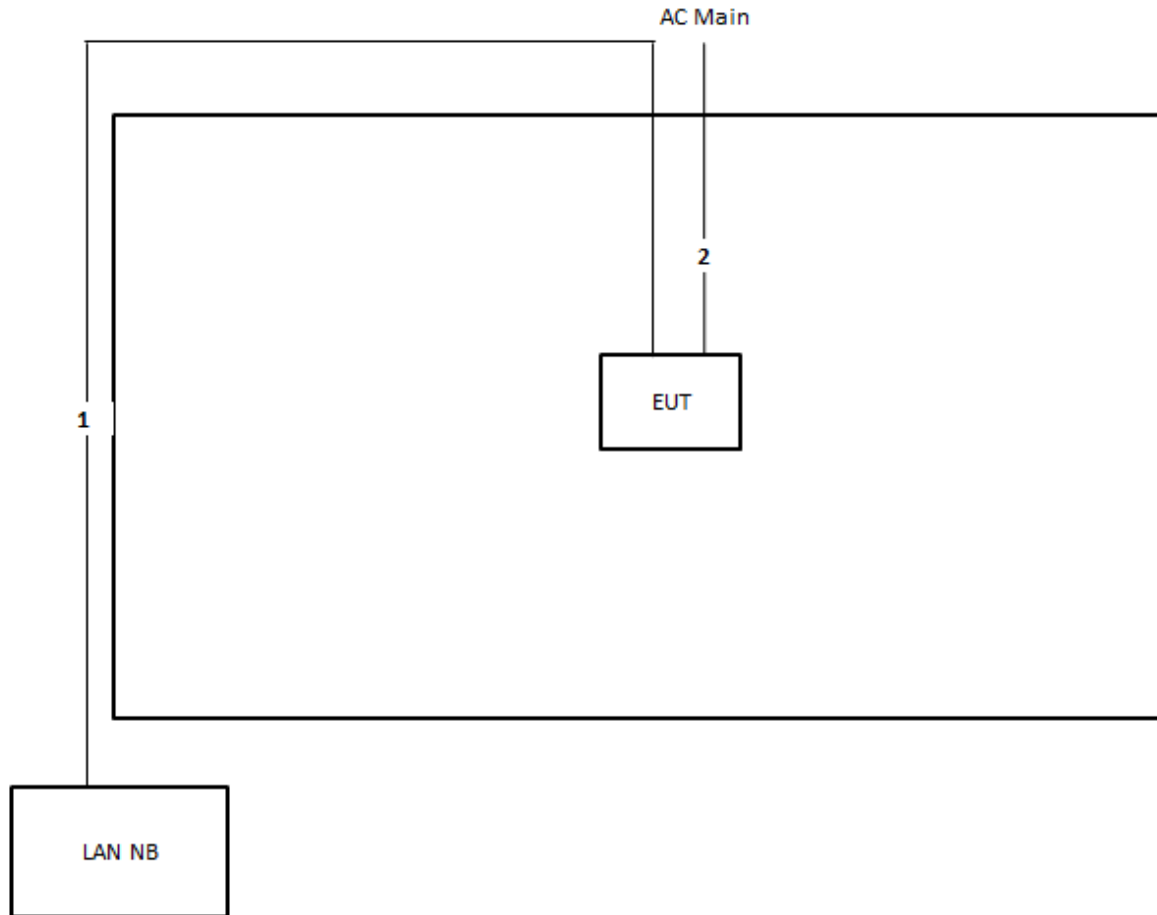
For Test Site No: TH01-CB

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

## 2.6 Test Setup Diagram

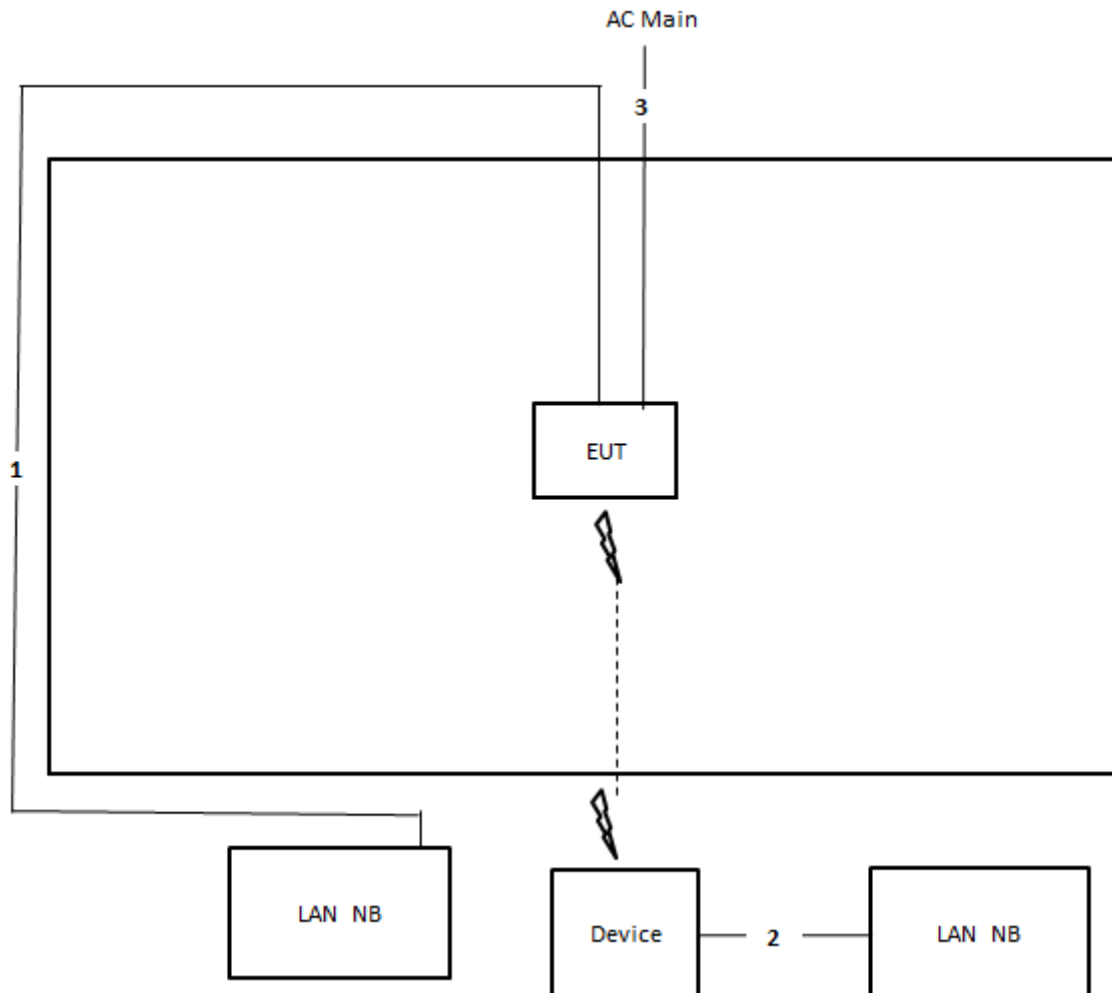


**Test Setup Diagram - Radiated Test /  
(Below 1GHz) and Non-Beamforming Mode (Above 1GHz)**



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

**Test Setup Diagram - Radiated Test /  
Beamforming Mode (Above 1GHz)**



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

### 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.

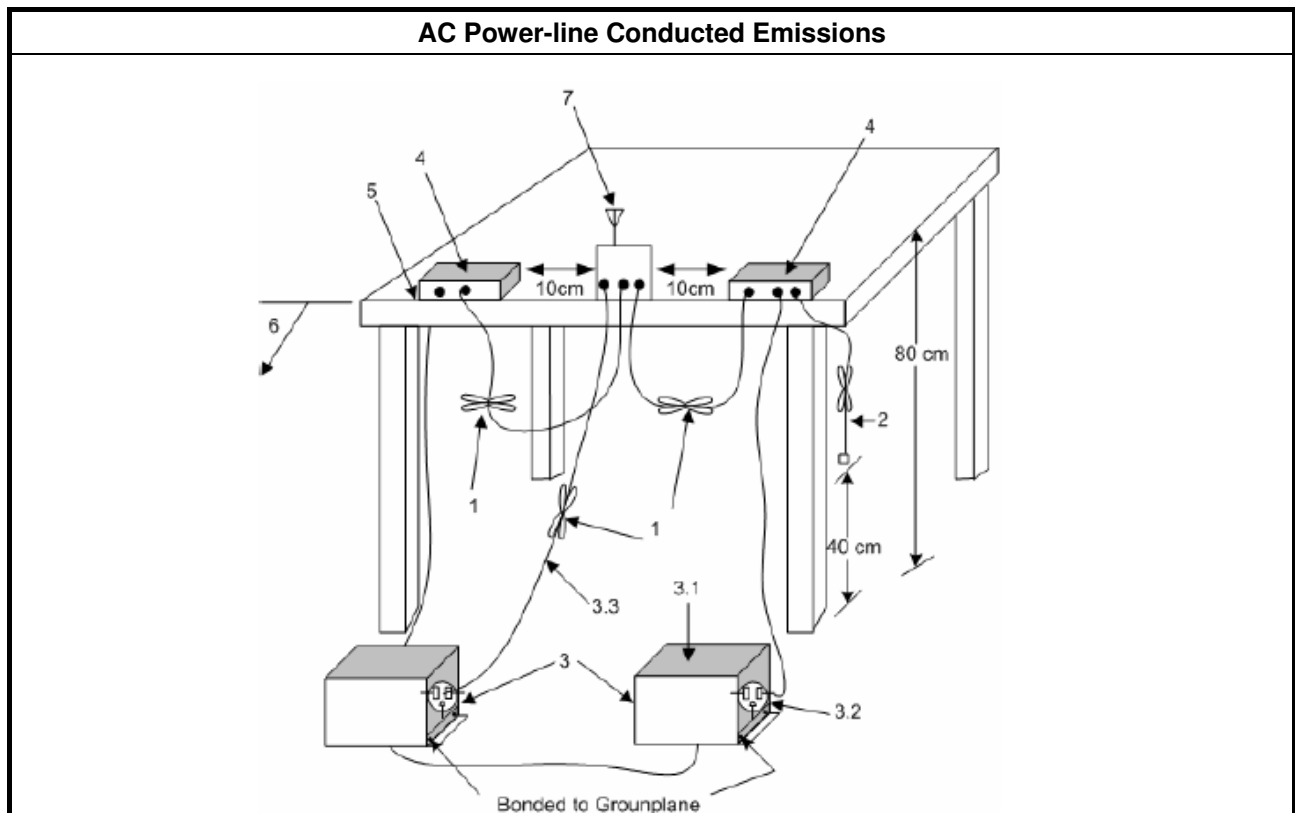
##### 3.1.2 Measuring Instruments

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.
<b>LE-LAN Devices</b>	
<input type="checkbox"/>	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

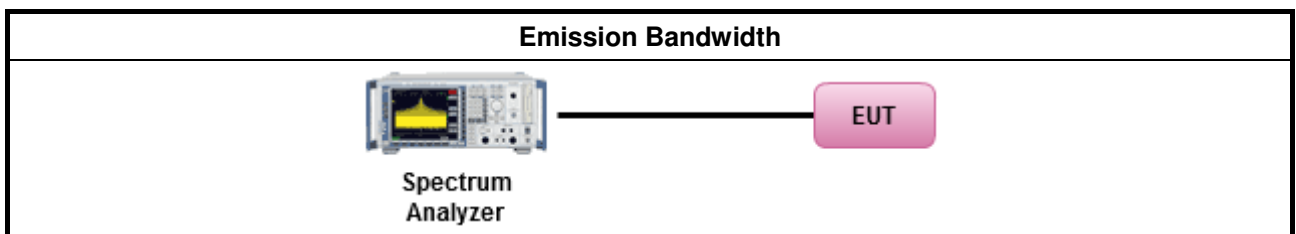
#### 3.2.2 Measuring Instruments

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 FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
<input checked="" type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for 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>
<b>LE-LAN Devices</b>	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<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.	

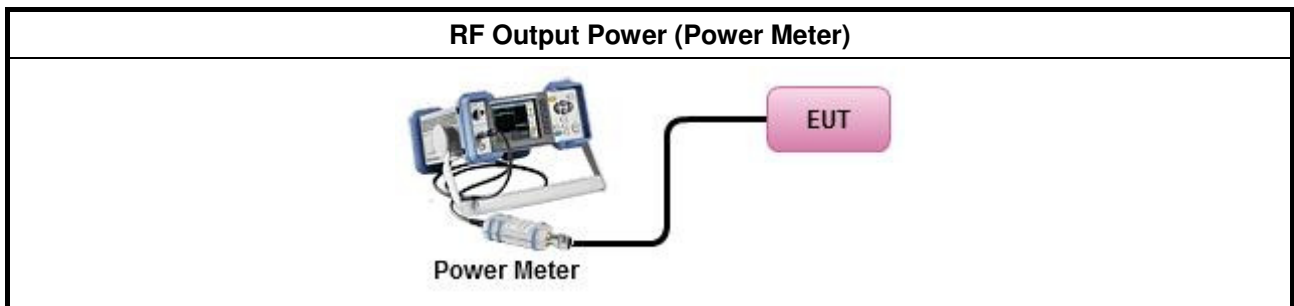
### 3.3.2 Measuring Instruments

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>	
Average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter and average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
<ul style="list-style-type: none"> <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 FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</li> </ul>	
<ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP calculation could be following as methods:  <math>P_{total} = P_1 + P_2 + \dots + P_n</math>                      (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>EIRP_{total} = P_{total} + DG</math> </li> </ul>	

### 3.3.4 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:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 23)</math>.</li> <li>▪ Mobile or Portable Client: the peak power spectral density (PPSD) <math>\leq 11</math> dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <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:	
<input type="checkbox"/>	<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> <li>▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li> </ul>
<b>LE-LAN Devices</b>	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) $\leq 4$ dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) $\leq 10$ dBm/MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) $\leq 17$ dBm/MHz.	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where <math>\theta</math> is the angle above the local horizontal plane (of the Earth) as shown below:            -13 dBW/MHz for <math>0^\circ \leq \theta &lt; 8^\circ</math> ; -13 - 0.716 (<math>\theta-8</math>) dBW/MHz for <math>8^\circ \leq \theta &lt; 40^\circ</math>            -35.9 - 1.22 (<math>\theta-40</math>) dBW/MHz for <math>40^\circ \leq \theta \leq 45^\circ</math> ; -42 dBW/MHz for <math>\theta &gt; 45^\circ</math></li> </ul>
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) $\leq 17$ dBm/MHz.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<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> <li>▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li> </ul>
<p><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><math>G_{TX}</math></b> = the maximum transmitting antenna directional gain in dBi.</p>	

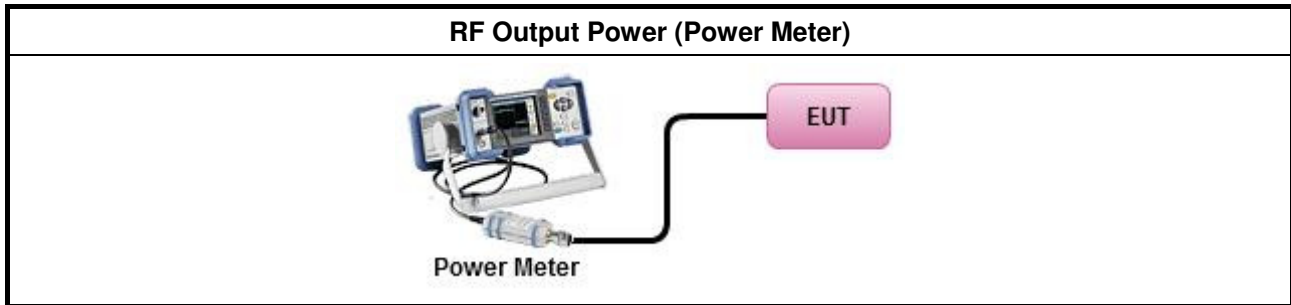
#### 3.4.2 Measuring Instruments

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 FCC KDB 789033, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
	<input type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
	<input type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<ul style="list-style-type: none"> <li>▪ For conducted measurement.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If the EUT supports multiple transmit chains using options given below:</li> </ul>	
	<input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
	<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
	<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<ul style="list-style-type: none"> <li>▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods:  <math>PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n</math>            (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>EIRP_{total} = PPSD_{total} + DG</math> </li> </ul>	

### 3.4.4 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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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



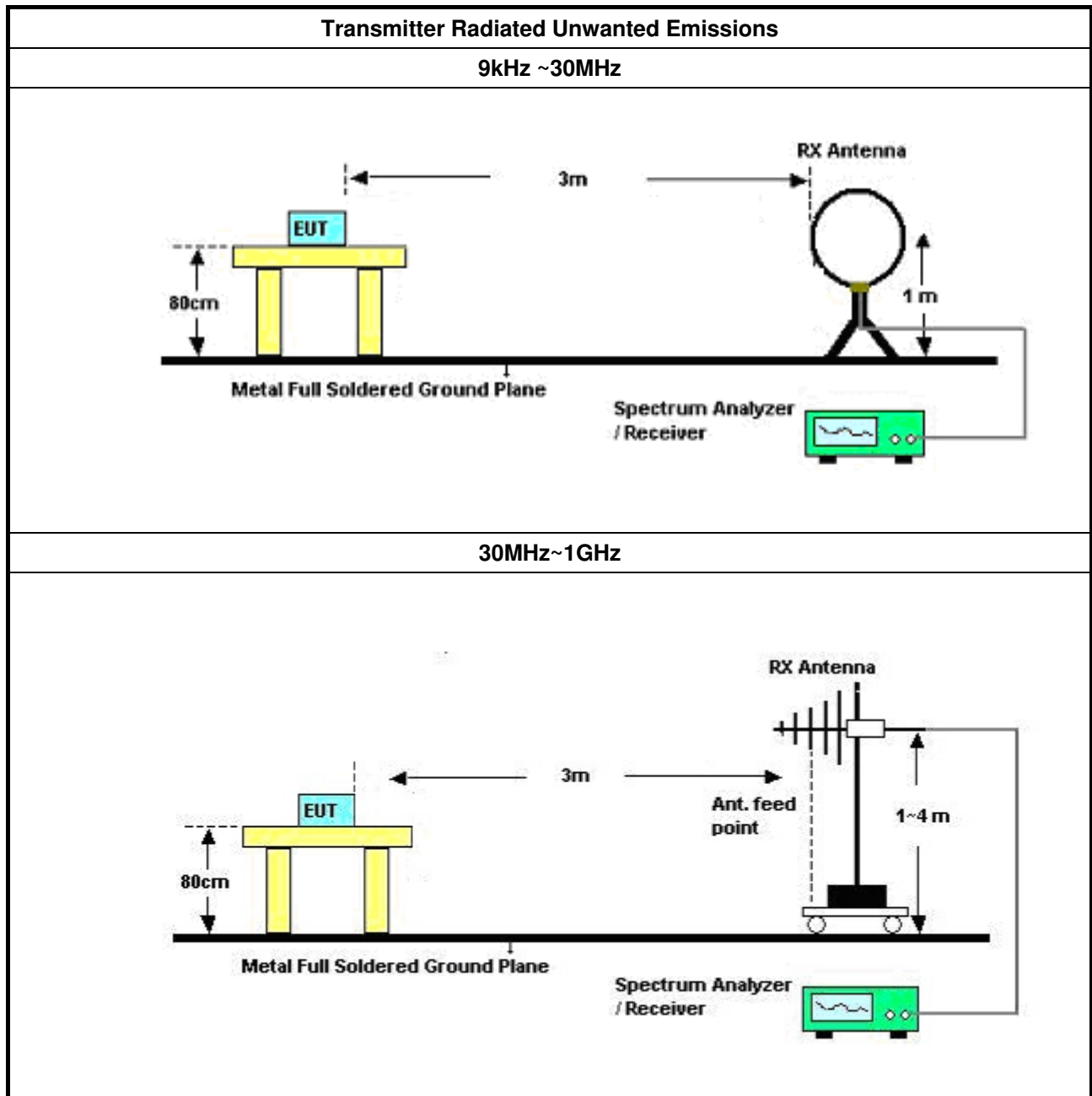
### 3.5.2 Measuring Instruments

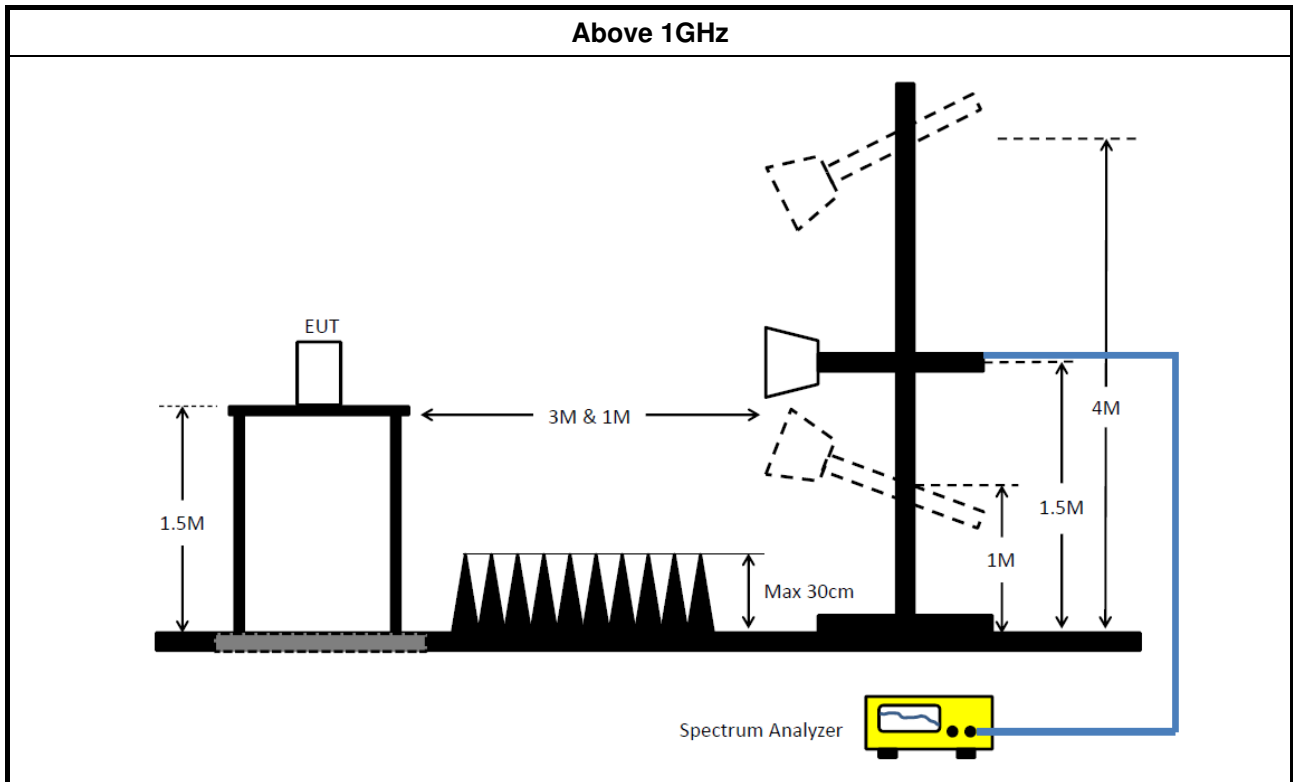
Refer a test equipment and calibration data table in this test report.

### 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:               <ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.</li> <li>▪ Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.                   <ul style="list-style-type: none"> <li><input type="checkbox"/> Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).</li> <li><input checked="" type="checkbox"/> Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).</li> <li><input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW <math>\geq</math> 1/T, where T is pulse time.</li> <li><input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.</li> <li><input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.</li> <li><input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.</li> </ul> </li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>▪ For radiated measurement.               <ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.</li> <li>▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> <li>▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>▪ The any unwanted emissions level shall not exceed the fundamental emission level.</li> </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)

All amplitude of spurious emissions that are attenuated by more than 20 dB 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>LE-LAN Devices</b>
<ul style="list-style-type: none"> <li>N/A</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 and <math>\pm 25</math> ppm maximum for the 2.4 GHz band.</li> </ul>

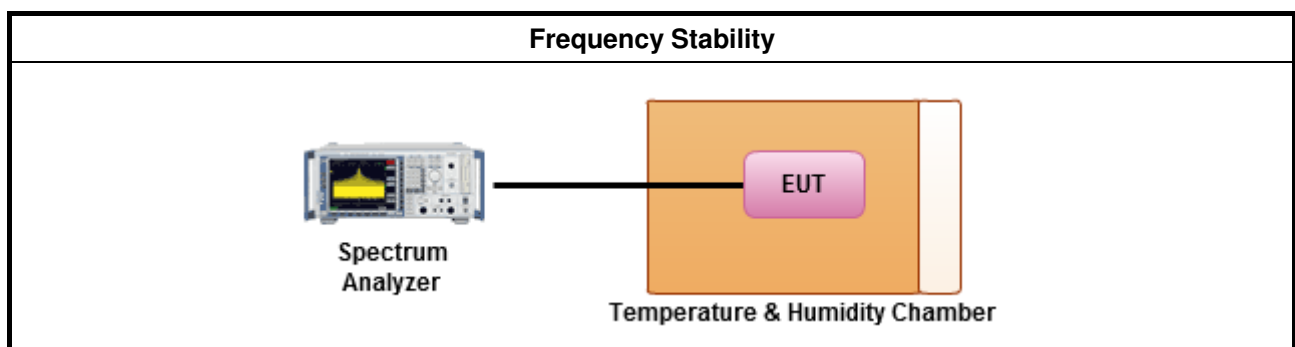
#### 3.6.2 Measuring Instruments

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>
<ul style="list-style-type: none"> <li>Extreme temperature is 0°C~40°C.</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	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 23, 2016	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 15, 2016	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 16, 2017	Conduction (CO02-CB)
COND Cable	Woken	Cable	01	0.15MHz ~ 30MHz	Nov. 30, 2016	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F	9561-F073	9kHz ~ 30MHz	Sep. 29, 2016	Conduction (CO02-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2016	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 13, 2017	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jun. 28, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 03, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Conducted (TH01-CB)

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

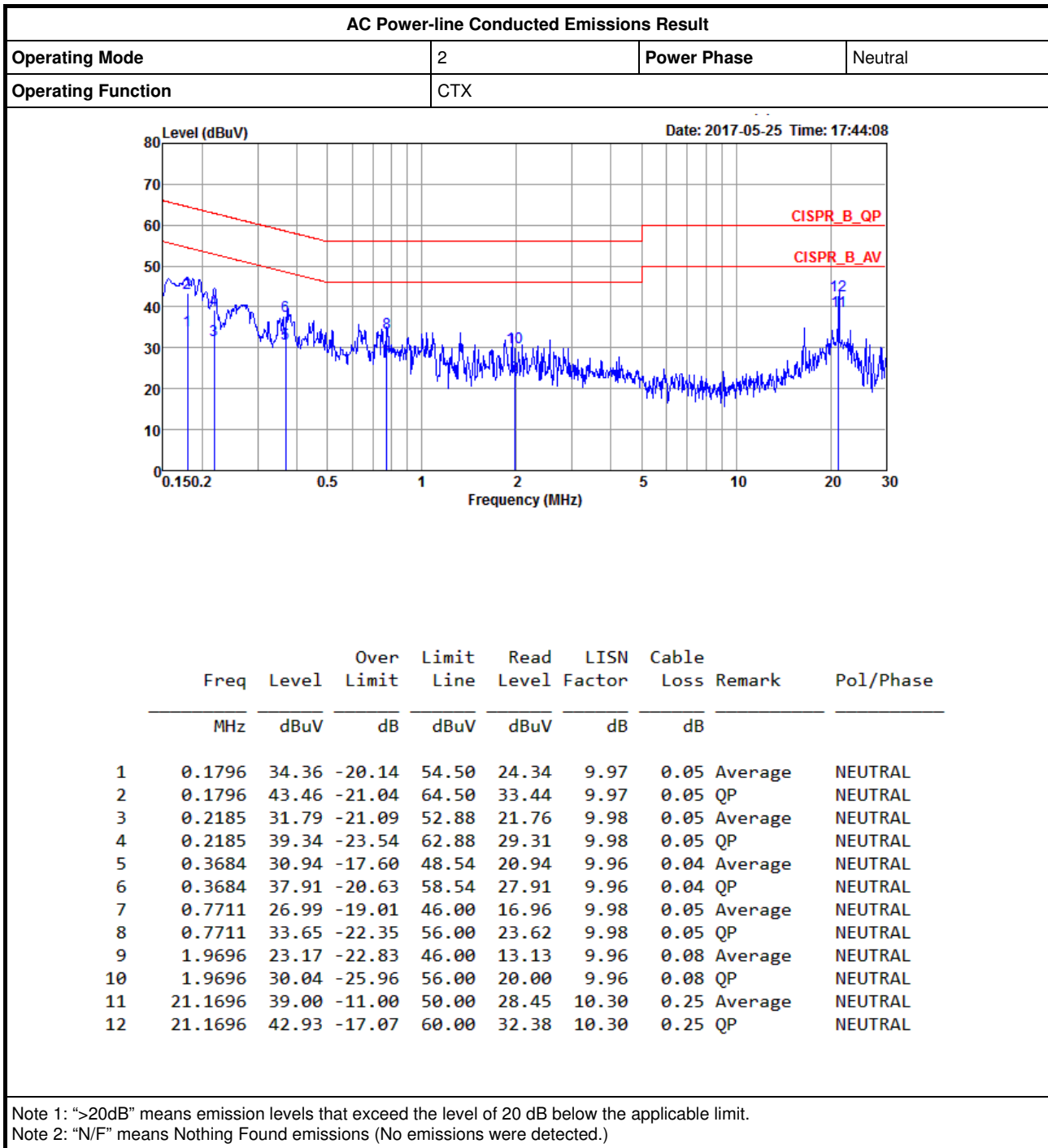
“\*\*” Calibration Interval of instruments listed above is two years.

N.C.R. means Non-Calibration required.



# AC Power-line Conducted Emissions Result

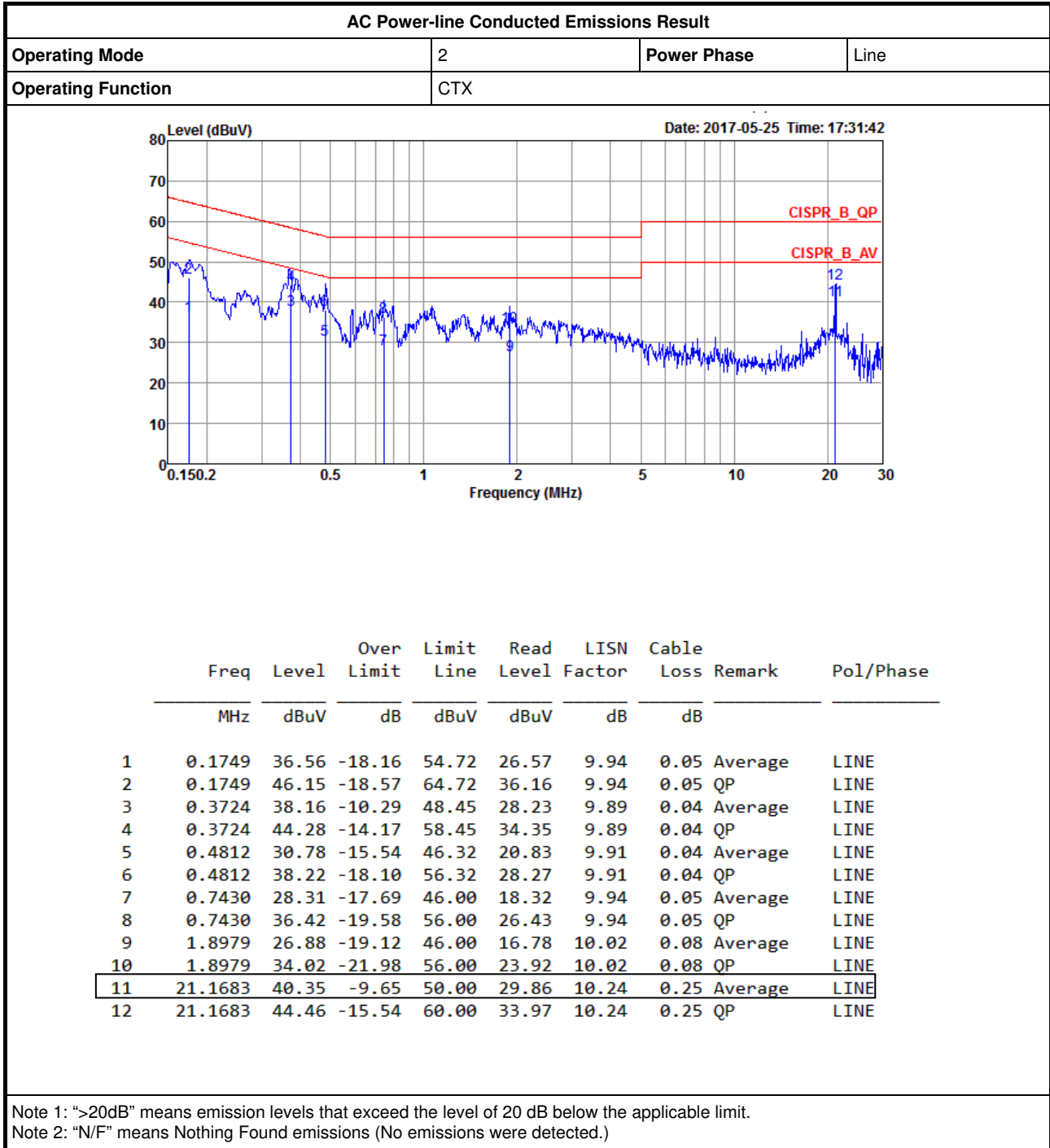
Appendix A





# AC Power-line Conducted Emissions Result

Appendix A







**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	22.125M	16.517M	16M5D1D	20.5M	16.417M
5.725-5.85GHz	16.325M	21.539M	21M5D1D	16.275M	18.291M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-
5.15-5.25GHz	26.225M	17.691M	17M7D1D	21.7M	17.666M
5.725-5.85GHz	17.575M	19.94M	19M9D1D	17.2M	18.116M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-
5.15-5.25GHz	78.85M	37.331M	37M3D1D	39.9M	35.982M
5.725-5.85GHz	35.05M	48.876M	48M9D1D	32.15M	40.58M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-
5.15-5.25GHz	89.2M	75.962M	76M0D1D	86.7M	75.862M
5.725-5.85GHz	74.1M	76.062M	76M1D1D	73.9M	75.962M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-
5.15-5.25GHz	20.9M	17.666M	17M7D1D	20.525M	17.566M
5.725-5.85GHz	17.275M	17.666M	17M7D1D	16.075M	17.616M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-
5.15-5.25GHz	65.65M	36.132M	36M1D1D	38.75M	35.882M
5.725-5.85GHz	35.4M	36.832M	36M8D1D	34.95M	35.982M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-
5.15-5.25GHz	81.8M	75.962M	76M0D1D	80.9M	75.062M
5.725-5.85GHz	75.1M	75.962M	76M0D1D	75.1M	75.862M

**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;

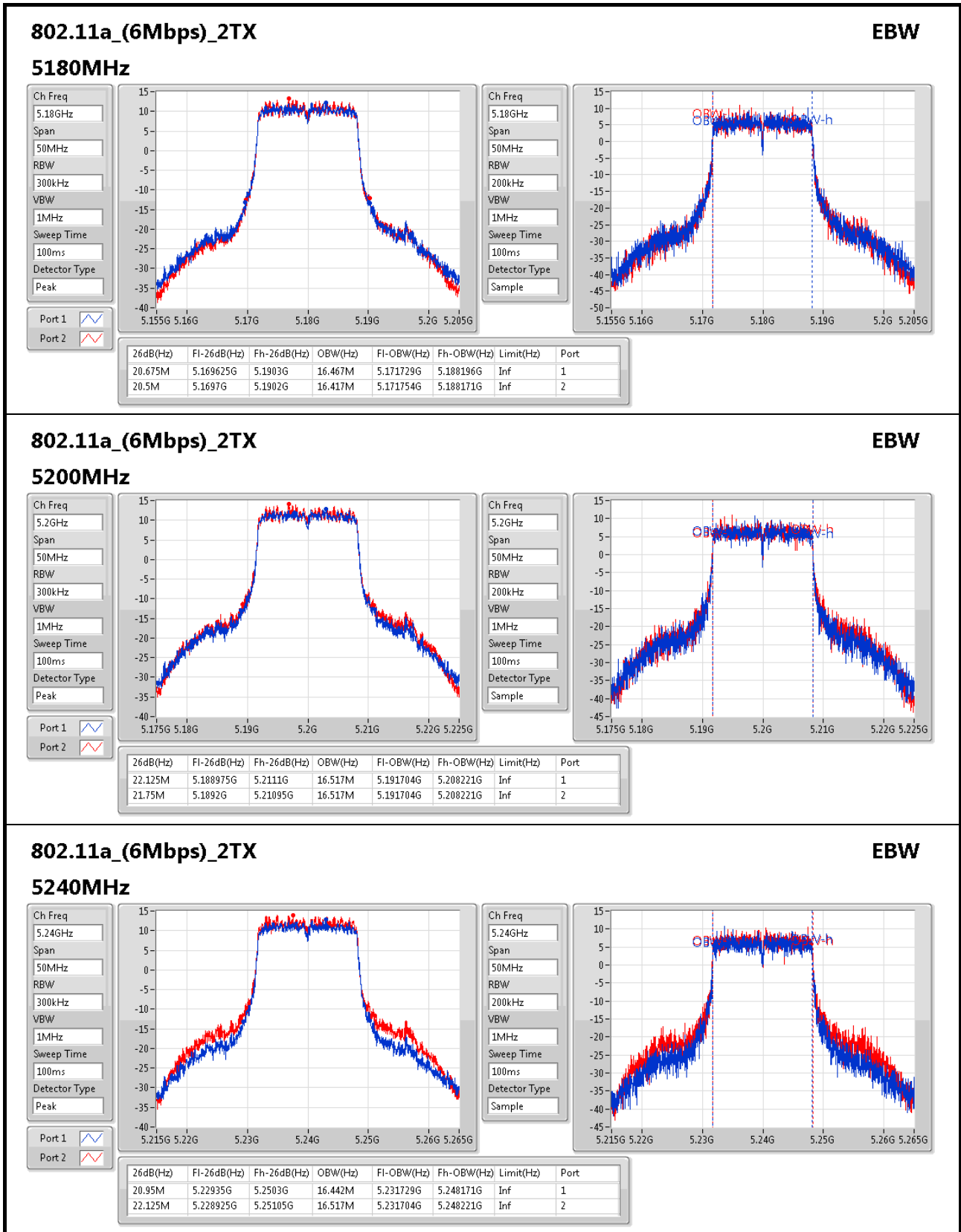
**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

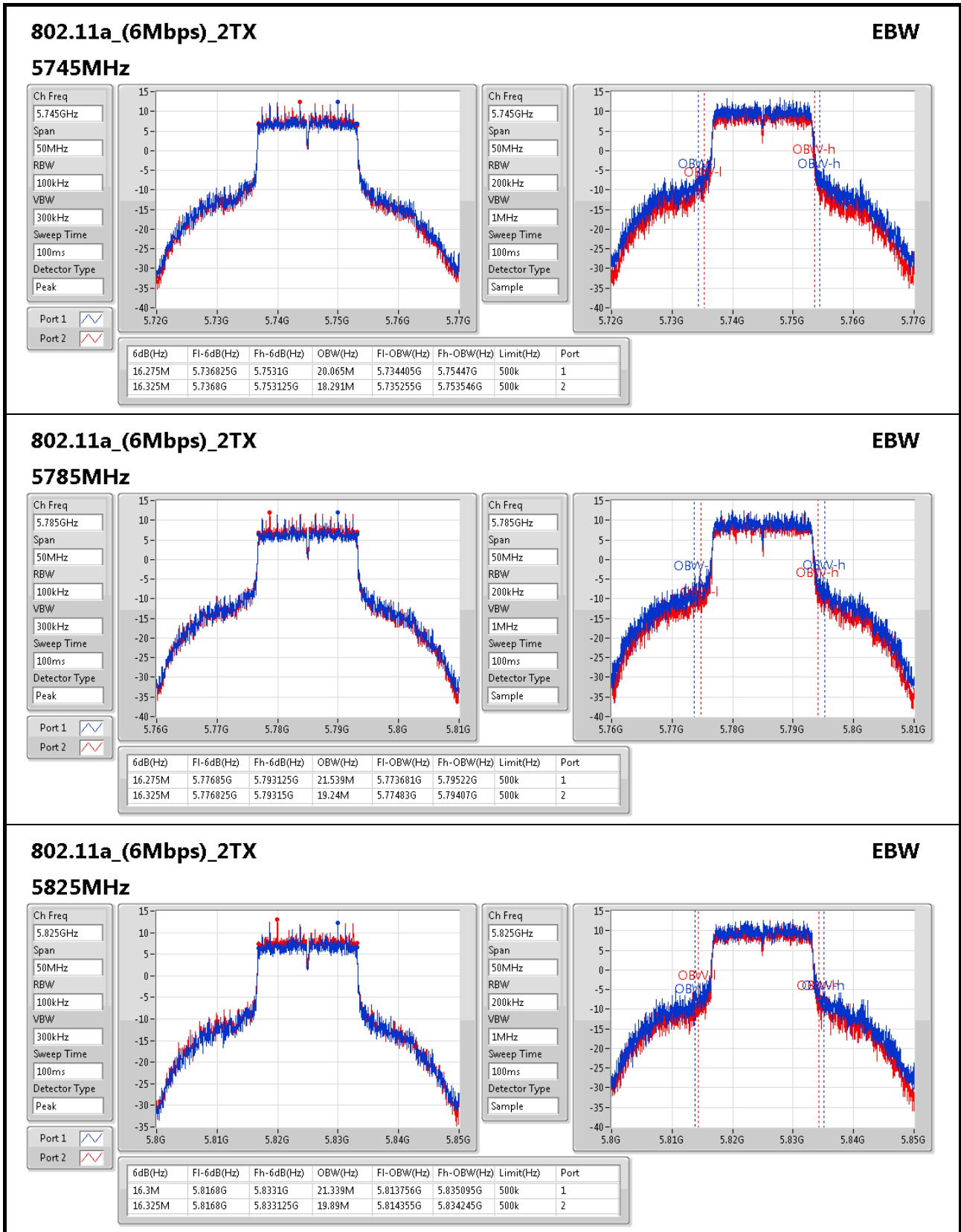
**Min-OBW** = Minimum 99% occupied bandwidth;

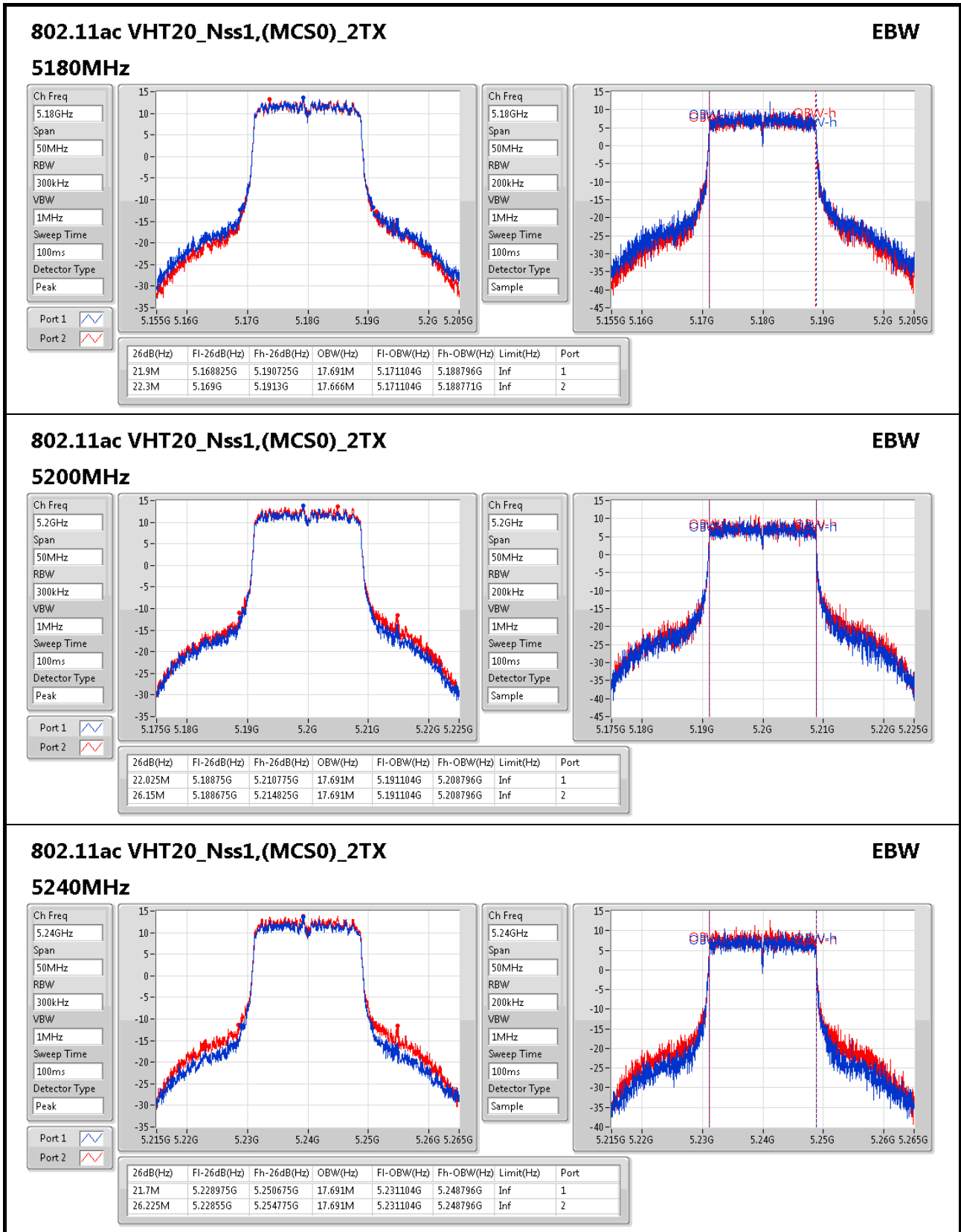
**Result**

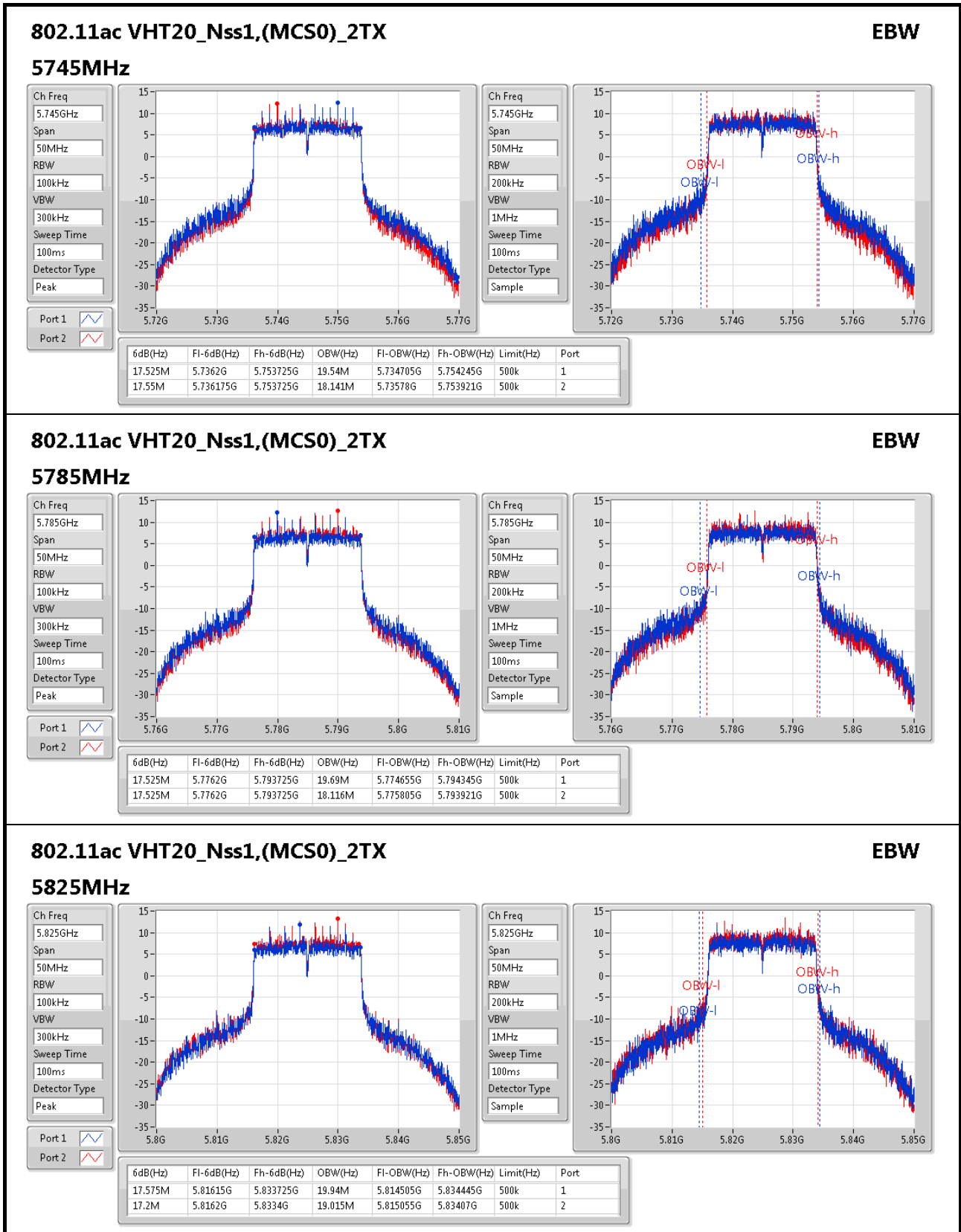
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.675M	16.467M	20.5M	16.417M
5200MHz	Pass	Inf	22.125M	16.517M	21.75M	16.517M
5240MHz	Pass	Inf	20.95M	16.442M	22.125M	16.517M
5745MHz	Pass	500k	16.275M	20.065M	16.325M	18.291M
5785MHz	Pass	500k	16.275M	21.539M	16.325M	19.24M
5825MHz	Pass	500k	16.3M	21.339M	16.325M	19.89M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.9M	17.691M	22.3M	17.666M
5200MHz	Pass	Inf	22.025M	17.691M	26.15M	17.691M
5240MHz	Pass	Inf	21.7M	17.691M	26.225M	17.691M
5745MHz	Pass	500k	17.525M	19.54M	17.55M	18.141M
5785MHz	Pass	500k	17.525M	19.69M	17.525M	18.116M
5825MHz	Pass	500k	17.575M	19.94M	17.2M	19.015M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	35.982M	40.1M	35.982M
5230MHz	Pass	Inf	76.6M	36.882M	78.85M	37.331M
5755MHz	Pass	500k	32.15M	44.928M	35.05M	40.58M
5795MHz	Pass	500k	33.8M	48.876M	34.8M	43.978M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	86.7M	75.962M	89.2M	75.862M
5775MHz	Pass	500k	74.1M	76.062M	73.9M	75.962M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.55M	17.616M	20.775M	17.641M
5200MHz	Pass	Inf	20.525M	17.616M	20.9M	17.666M
5240MHz	Pass	Inf	20.8M	17.566M	20.825M	17.641M
5745MHz	Pass	500k	17.2M	17.616M	16.075M	17.616M
5785MHz	Pass	500k	17.125M	17.641M	17.15M	17.616M
5825MHz	Pass	500k	16.75M	17.641M	17.275M	17.666M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39M	35.882M	39.9M	35.982M
5230MHz	Pass	Inf	38.75M	35.932M	65.65M	36.132M
5755MHz	Pass	500k	34.95M	36.082M	35.4M	35.982M
5795MHz	Pass	500k	35.05M	36.832M	34.95M	36.432M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	80.9M	75.062M	81.8M	75.962M
5775MHz	Pass	500k	75.1M	75.862M	75.1M	75.962M

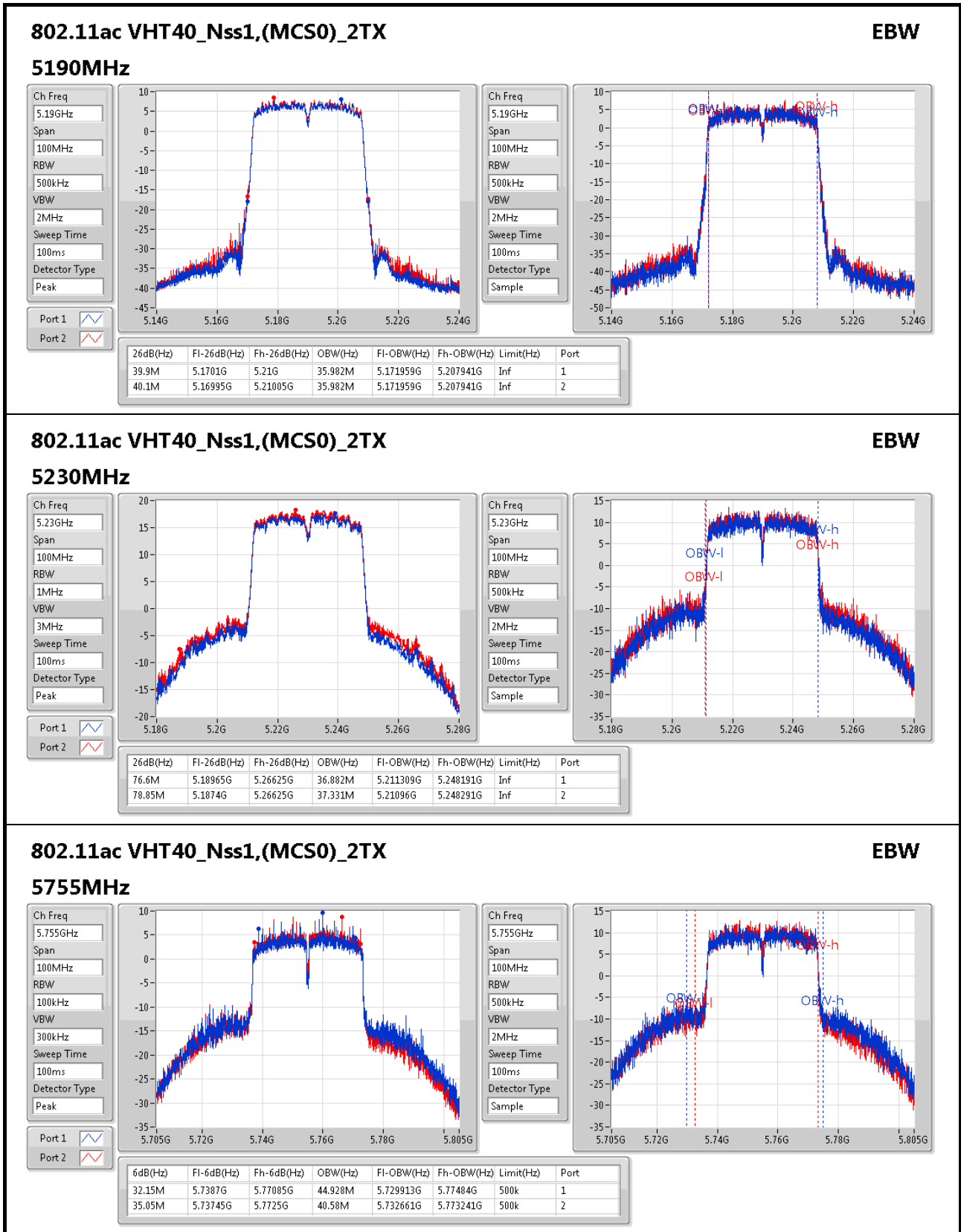
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band  
 Port X-OBW = Port X 99% occupied bandwidth;

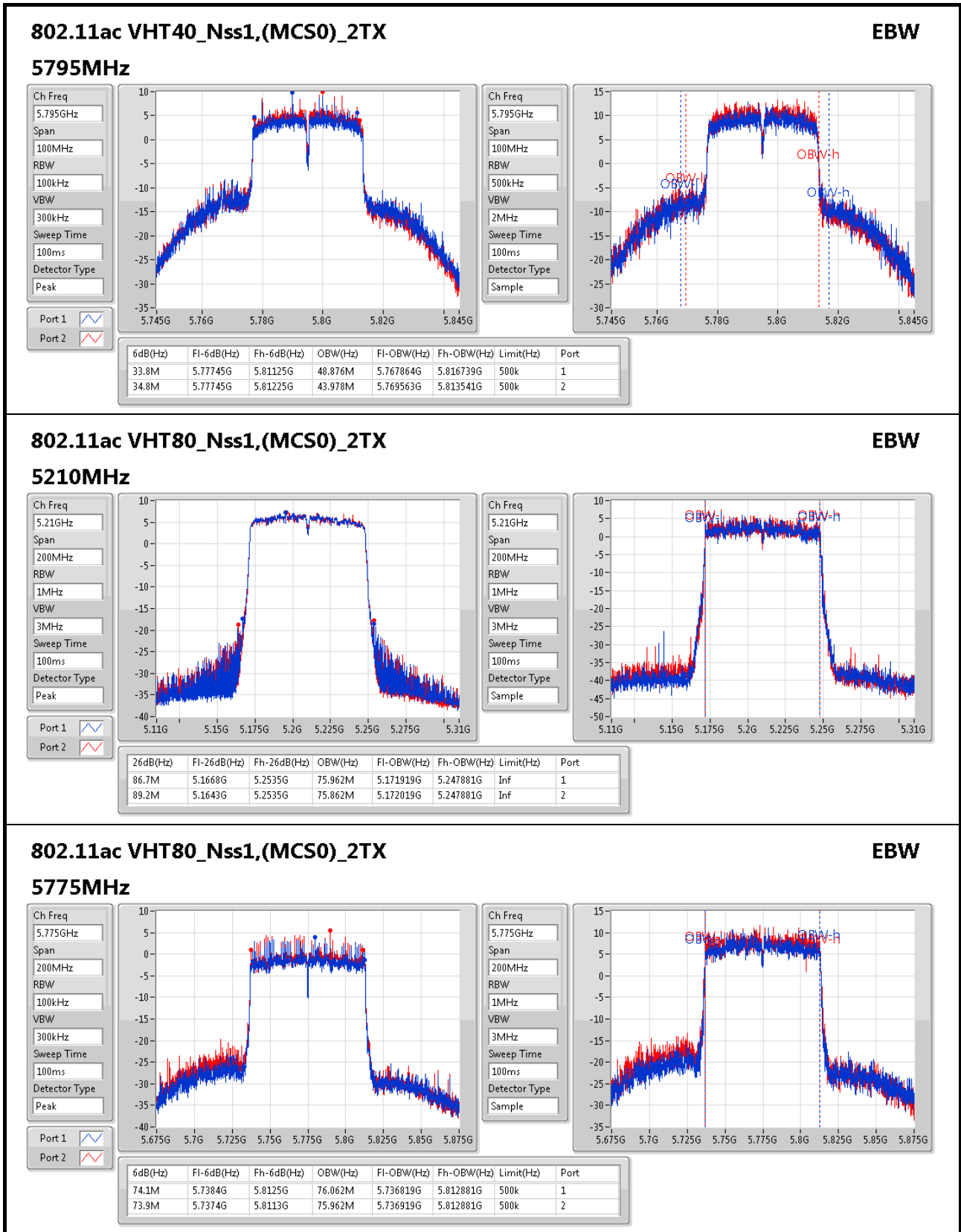




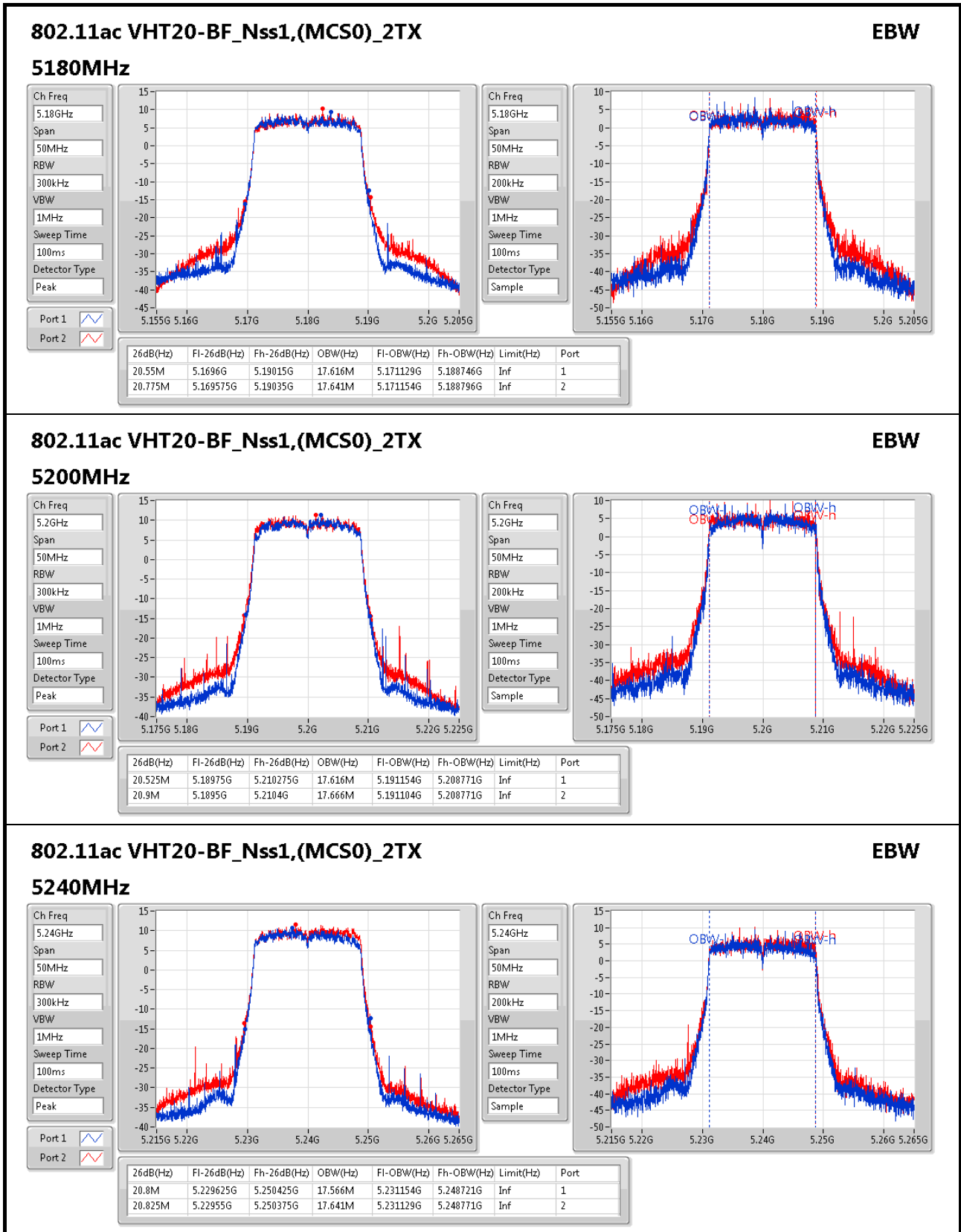


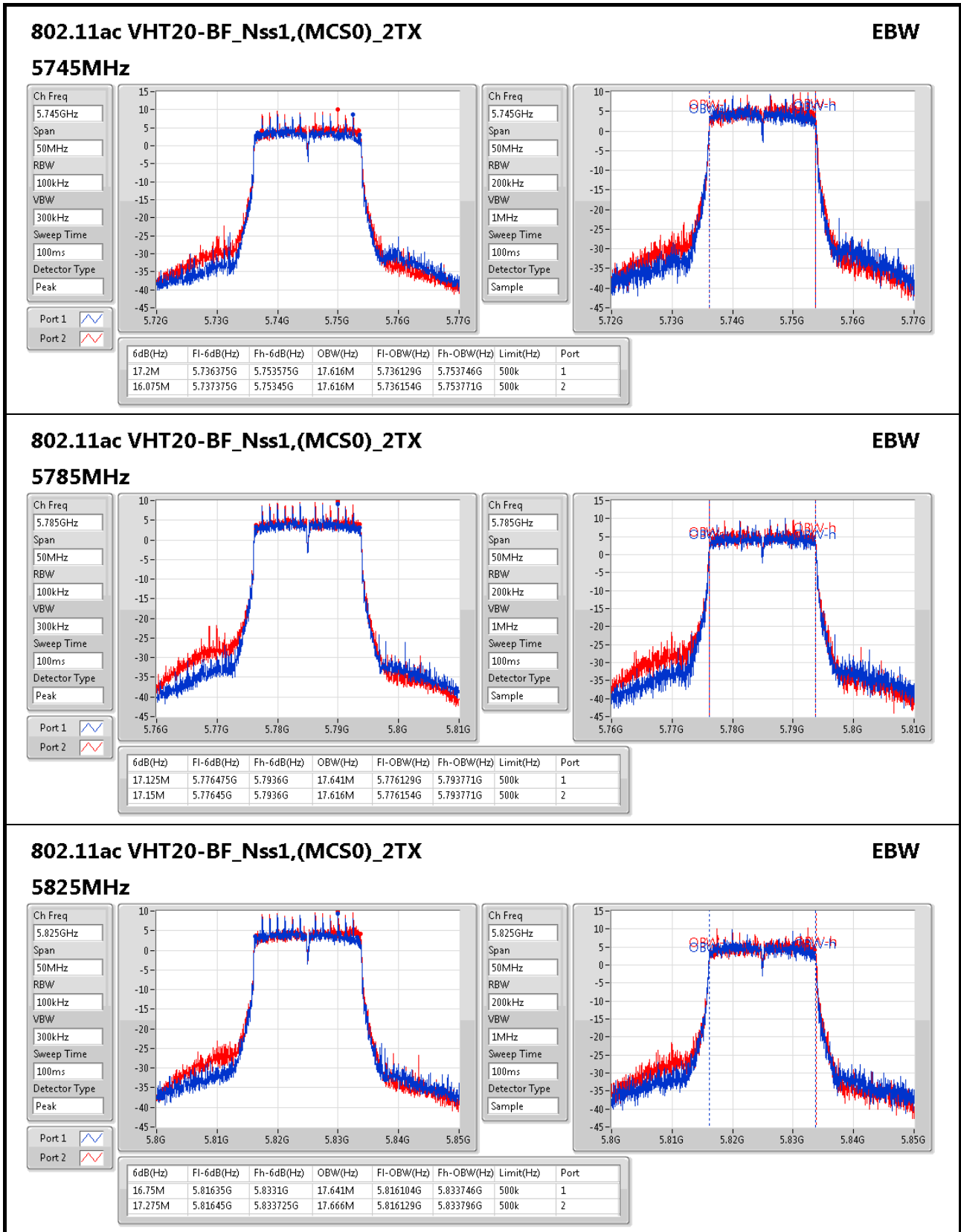


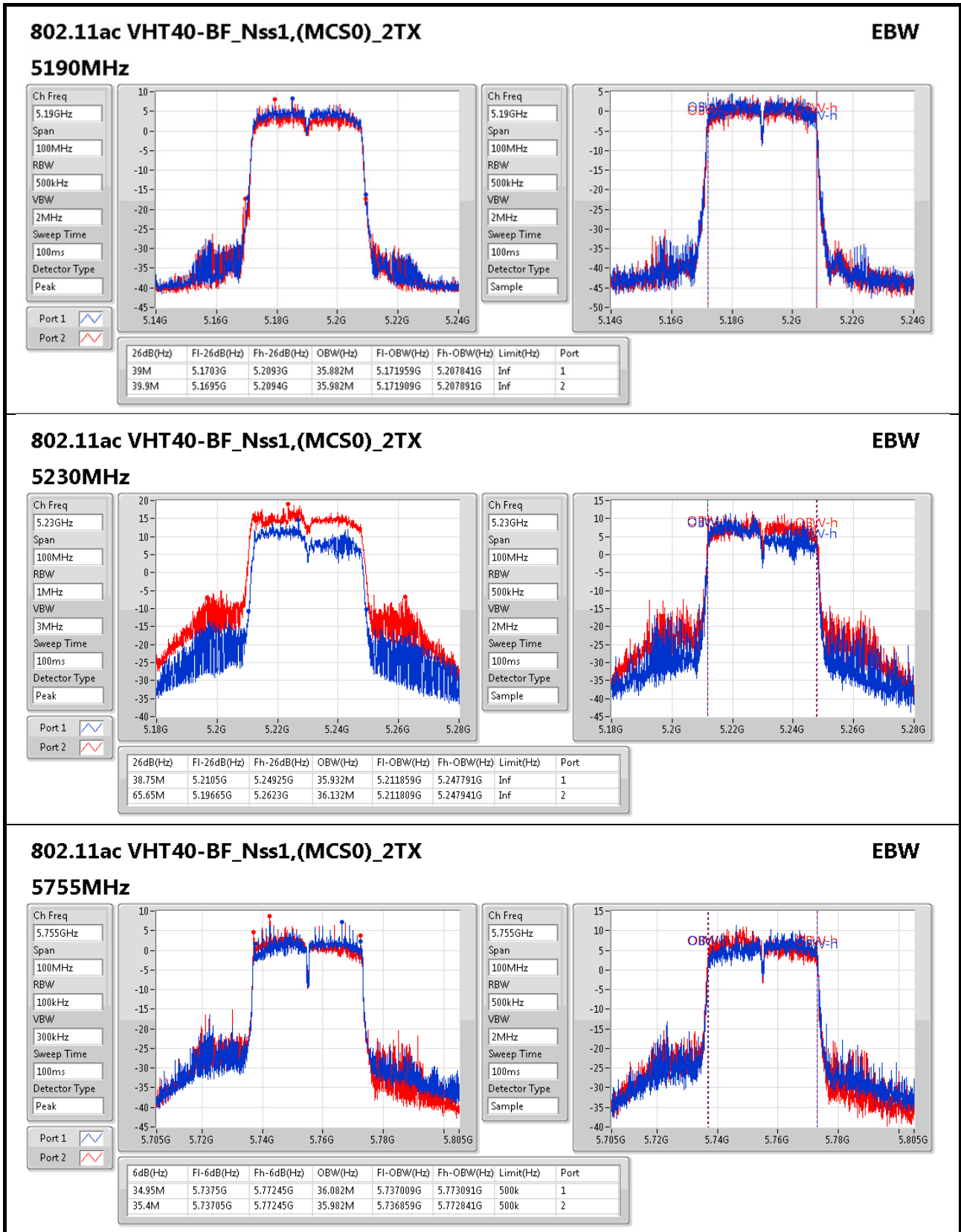


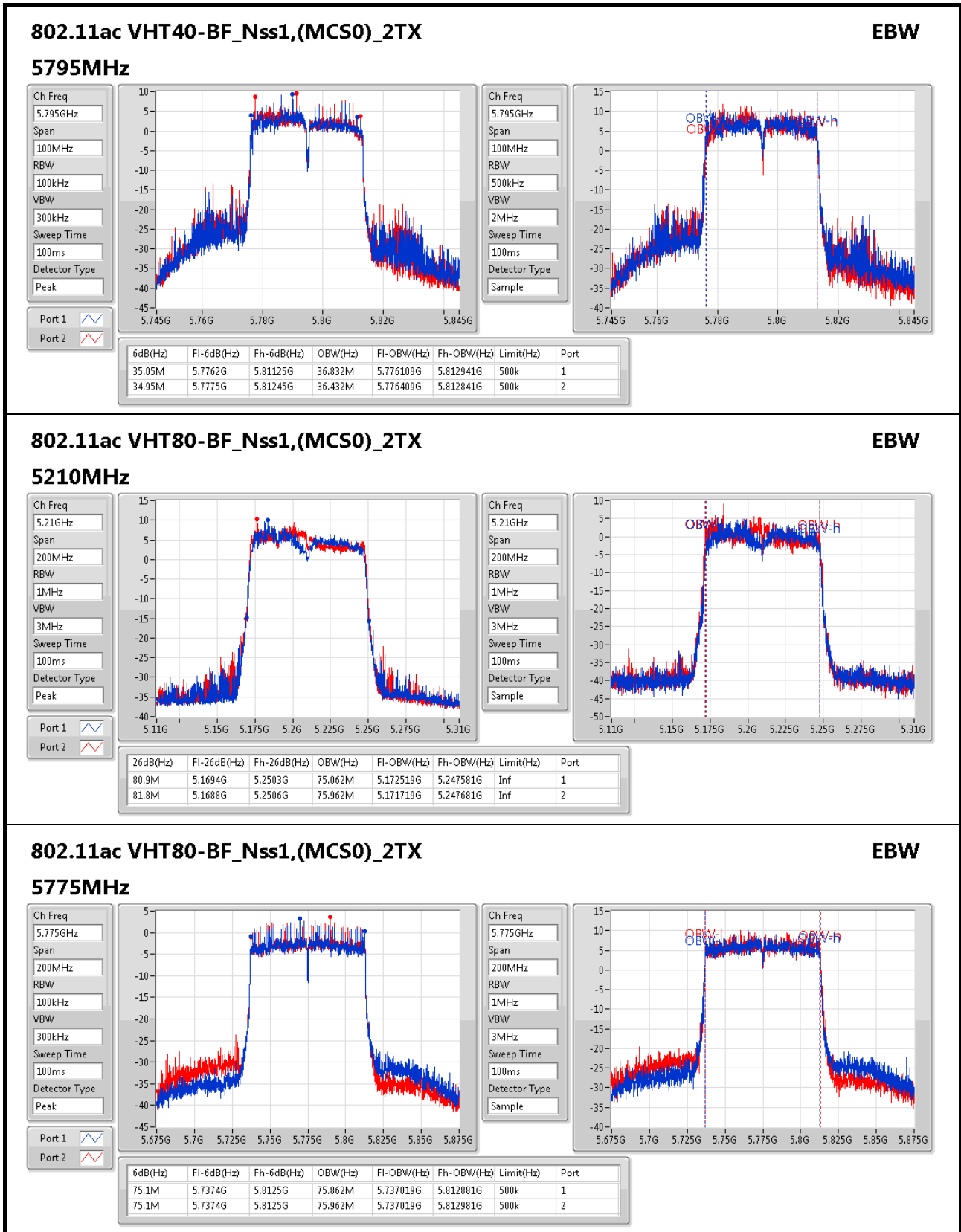














**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11a_(6Mbps)_2TX	-	-	-	-
5.15-5.25GHz	24.18	0.26182	28.05	0.63826
5.725-5.85GHz	25.59	0.36224	29.46	0.88308
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-
5.15-5.25GHz	24.62	0.28973	28.49	0.70632
5.725-5.85GHz	25.55	0.35892	29.42	0.87498
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-
5.15-5.25GHz	25.85	0.38459	29.72	0.93756
5.725-5.85GHz	25.71	0.37239	29.58	0.90782
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-
5.15-5.25GHz	18.35	0.06839	22.22	0.16672
5.725-5.85GHz	23.15	0.20654	27.02	0.50350
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-
5.15-5.25GHz	21.56	0.14322	28.44	0.69823
5.725-5.85GHz	21.95	0.15668	28.83	0.76384
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-
5.15-5.25GHz	22.56	0.18030	29.44	0.87902
5.725-5.85GHz	22.23	0.16711	29.11	0.81470
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-
5.15-5.25GHz	15.63	0.03656	22.51	0.17824
5.725-5.85GHz	21.22	0.13243	28.10	0.64565



**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	Pass	3.87	20.12	20.38	23.26	30.00	27.13	36.00
5200MHz	Pass	3.87	20.80	21.18	24.00	30.00	27.87	36.00
5240MHz	Pass	3.87	20.76	21.55	24.18	30.00	28.05	36.00
5745MHz	Pass	3.87	22.20	22.67	25.45	30.00	29.32	36.00
5785MHz	Pass	3.87	21.59	22.56	25.11	30.00	28.98	36.00
5825MHz	Pass	3.87	22.06	23.04	25.59	30.00	29.46	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.87	21.25	21.35	24.31	30.00	28.18	36.00
5200MHz	Pass	3.87	21.32	21.69	24.52	30.00	28.39	36.00
5240MHz	Pass	3.87	21.22	21.96	24.62	30.00	28.49	36.00
5745MHz	Pass	3.87	22.20	22.55	25.39	30.00	29.26	36.00
5785MHz	Pass	3.87	22.08	22.60	25.36	30.00	29.23	36.00
5825MHz	Pass	3.87	22.15	22.90	25.55	30.00	29.42	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.87	16.62	16.54	19.59	30.00	23.46	36.00
5230MHz	Pass	3.87	22.52	23.13	25.85	30.00	29.72	36.00
5755MHz	Pass	3.87	22.00	22.45	25.24	30.00	29.11	36.00
5795MHz	Pass	3.87	22.34	23.03	25.71	30.00	29.58	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.87	15.13	15.54	18.35	30.00	22.22	36.00
5775MHz	Pass	3.87	19.82	20.44	23.15	30.00	27.02	36.00
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.88	15.91	16.16	19.05	29.12	25.93	36.00
5200MHz	Pass	6.88	17.15	17.34	20.26	29.12	27.14	36.00
5240MHz	Pass	6.88	18.12	18.94	21.56	29.12	28.44	36.00
5745MHz	Pass	6.88	18.19	19.02	21.64	29.12	28.52	36.00
5785MHz	Pass	6.88	18.63	19.10	21.88	29.12	28.76	36.00
5825MHz	Pass	6.88	18.74	19.13	21.95	29.12	28.83	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.88	12.11	12.18	15.16	29.12	22.04	36.00
5230MHz	Pass	6.88	19.36	19.73	22.56	29.12	29.44	36.00
5755MHz	Pass	6.88	18.03	18.88	21.49	29.12	28.37	36.00
5795MHz	Pass	6.88	18.87	19.54	22.23	29.12	29.11	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.88	12.29	12.93	15.63	29.12	22.51	36.00
5775MHz	Pass	6.88	18.02	18.39	21.22	29.12	28.10	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	11.63	18.51
5.725-5.85GHz	11.57	18.45
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-
5.15-5.25GHz	11.77	18.65
5.725-5.85GHz	10.98	17.86
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-
5.15-5.25GHz	10.31	17.19
5.725-5.85GHz	8.52	15.40
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-
5.15-5.25GHz	-0.17	6.71
5.725-5.85GHz	3.25	10.13
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-
5.15-5.25GHz	9.34	16.22
5.725-5.85GHz	7.92	14.80
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-
5.15-5.25GHz	7.14	14.02
5.725-5.85GHz	6.02	12.90
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-
5.15-5.25GHz	-2.15	4.73
5.725-5.85GHz	0.71	7.59

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



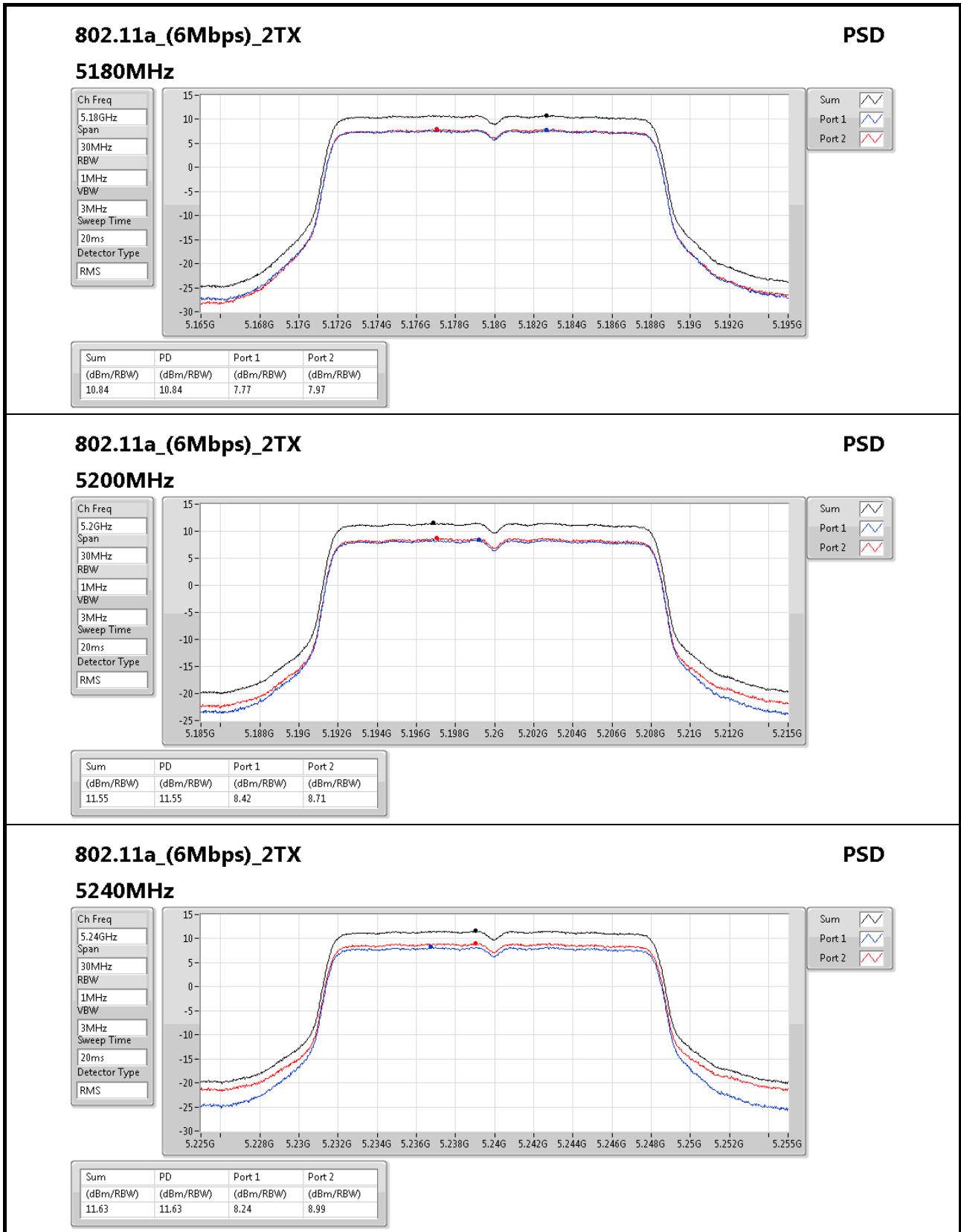
Result

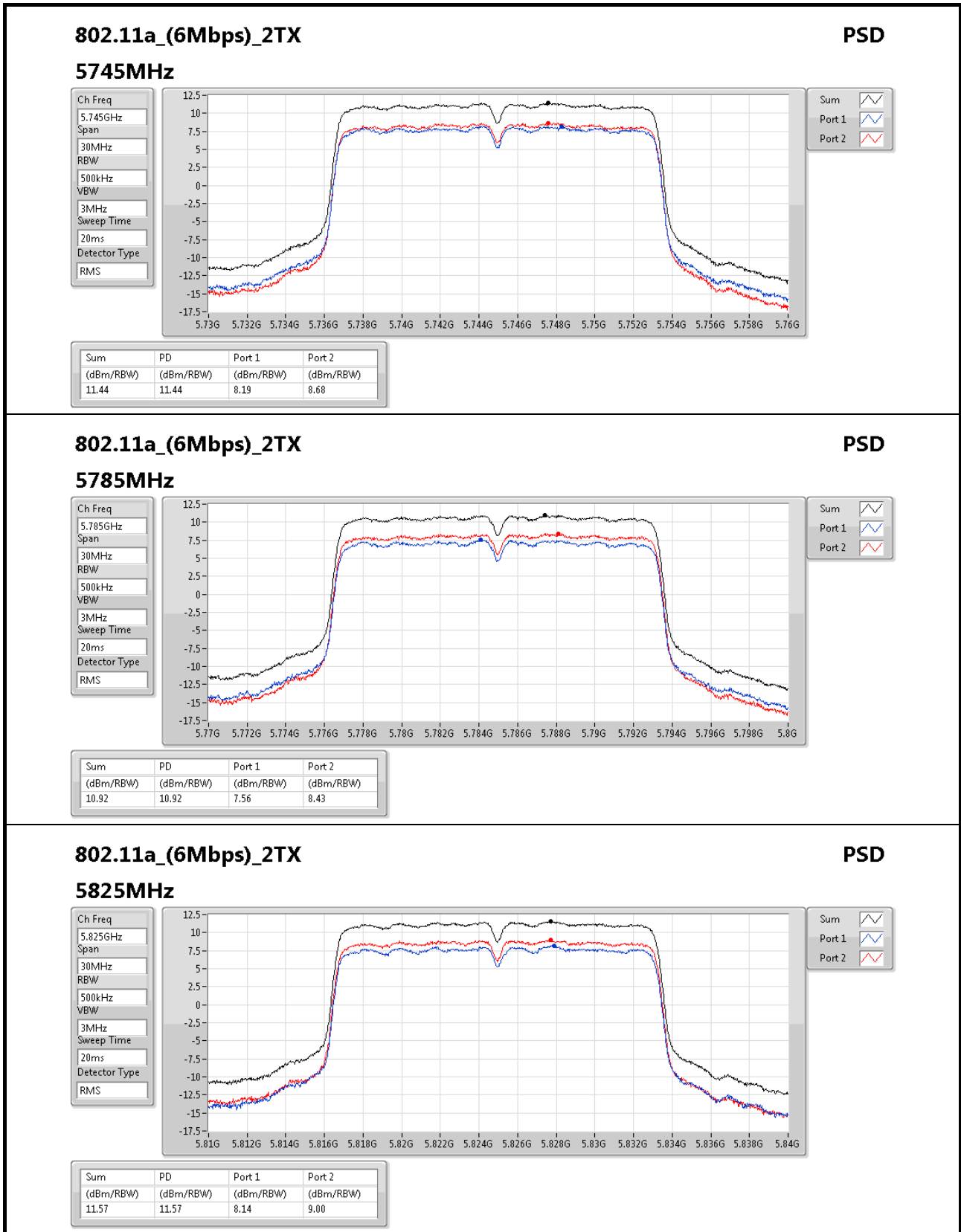
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.88	7.77	7.97	10.84	16.12
5200MHz	Pass	6.88	8.42	8.71	11.55	16.12
5240MHz	Pass	6.88	8.24	8.99	11.63	16.12
5745MHz	Pass	6.88	8.19	8.68	11.44	29.12
5785MHz	Pass	6.88	7.56	8.43	10.92	29.12
5825MHz	Pass	6.88	8.14	9.00	11.57	29.12
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.88	8.51	8.62	11.50	16.12
5200MHz	Pass	6.88	8.65	8.97	11.76	16.12
5240MHz	Pass	6.88	8.36	9.16	11.77	16.12
5745MHz	Pass	6.88	7.80	8.19	10.98	29.12
5785MHz	Pass	6.88	7.62	8.19	10.87	29.12
5825MHz	Pass	6.88	7.62	8.34	10.92	29.12
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	6.88	1.02	1.28	4.12	16.12
5230MHz	Pass	6.88	7.04	7.63	10.31	16.12
5755MHz	Pass	6.88	5.02	5.52	8.26	29.12
5795MHz	Pass	6.88	5.16	5.93	8.52	29.12
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	6.88	-3.48	-2.88	-0.17	16.12
5775MHz	Pass	6.88	-0.12	0.66	3.25	29.12
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.88	4.21	4.01	6.88	16.12
5200MHz	Pass	6.88	6.38	6.43	9.17	16.12
5240MHz	Pass	6.88	6.07	6.68	9.34	16.12
5745MHz	Pass	6.88	4.67	5.19	7.67	29.12
5785MHz	Pass	6.88	4.83	5.55	7.92	29.12
5825MHz	Pass	6.88	4.85	5.51	7.84	29.12
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	6.88	-1.89	-2.20	0.83	16.12
5230MHz	Pass	6.88	3.59	4.84	7.14	16.12
5755MHz	Pass	6.88	2.56	3.55	5.29	29.12
5795MHz	Pass	6.88	2.32	4.06	6.02	29.12
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	6.88	-4.94	-4.23	-2.15	16.12
5775MHz	Pass	6.88	-2.23	-2.21	0.71	29.12

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**
**5825MHz**

Ch Freq  
5.825GHz

Span  
30MHz

RBW  
500kHz

VBW  
3MHz

Sweep Time  
20ms

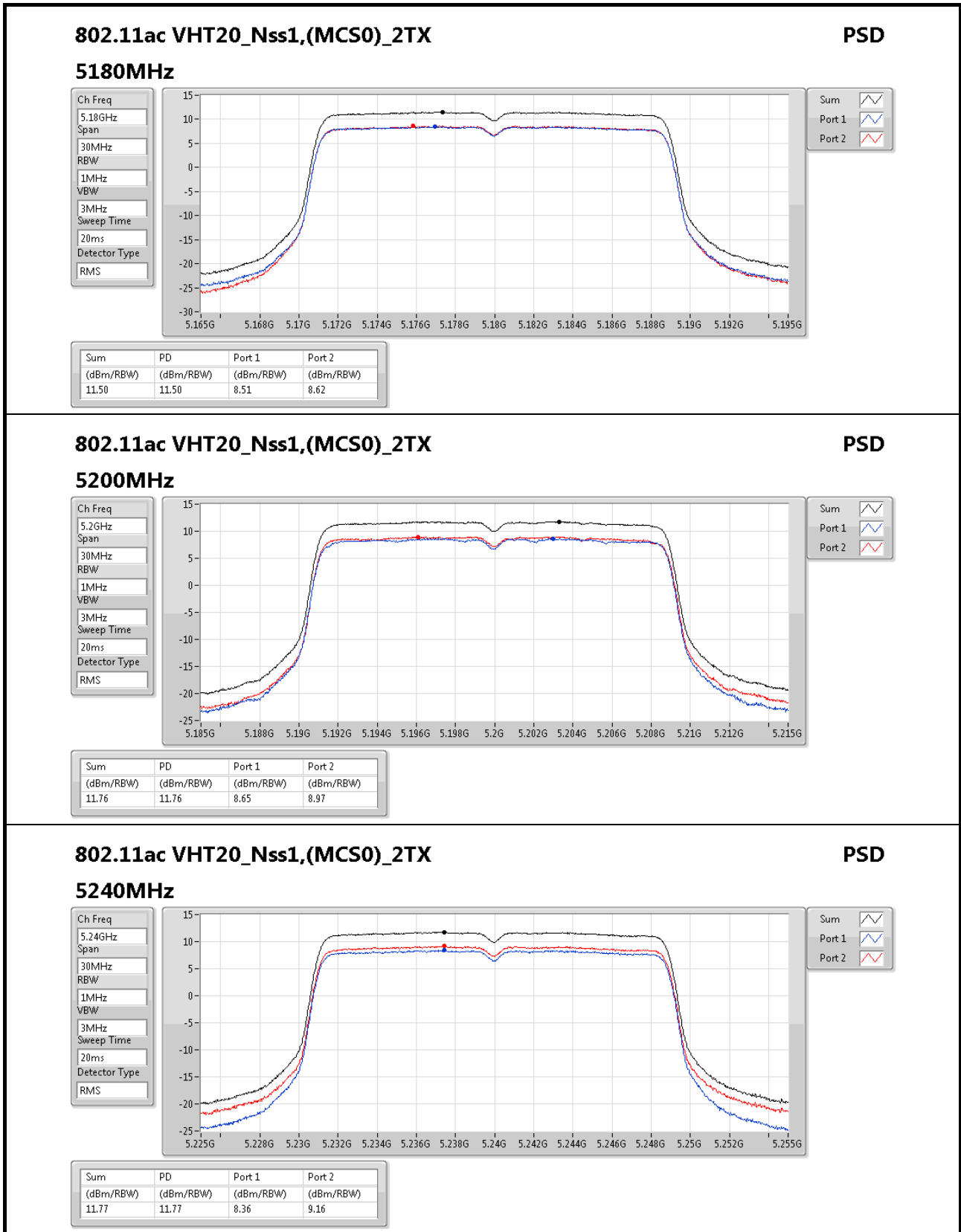
Detector Type  
RMS

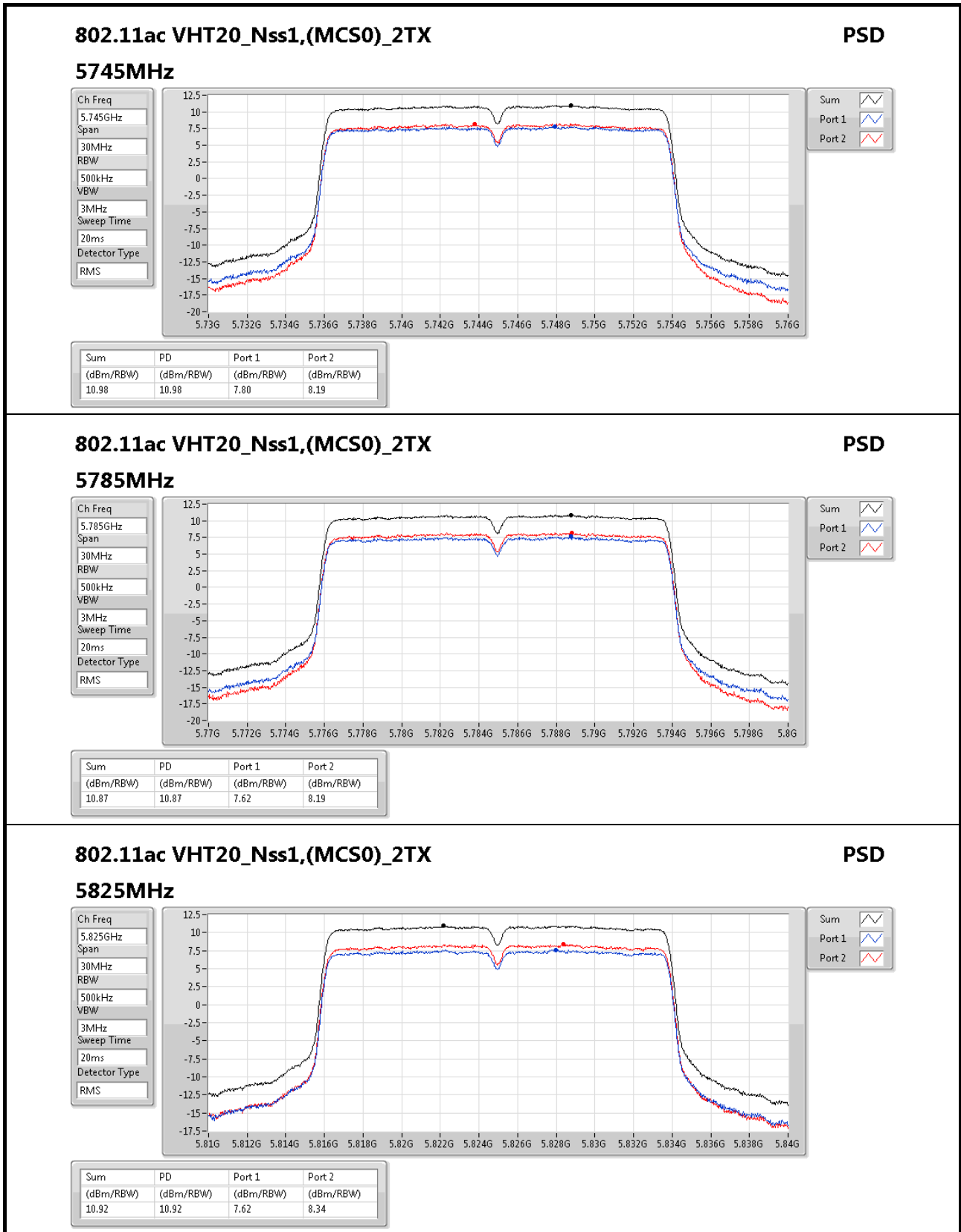
Sum

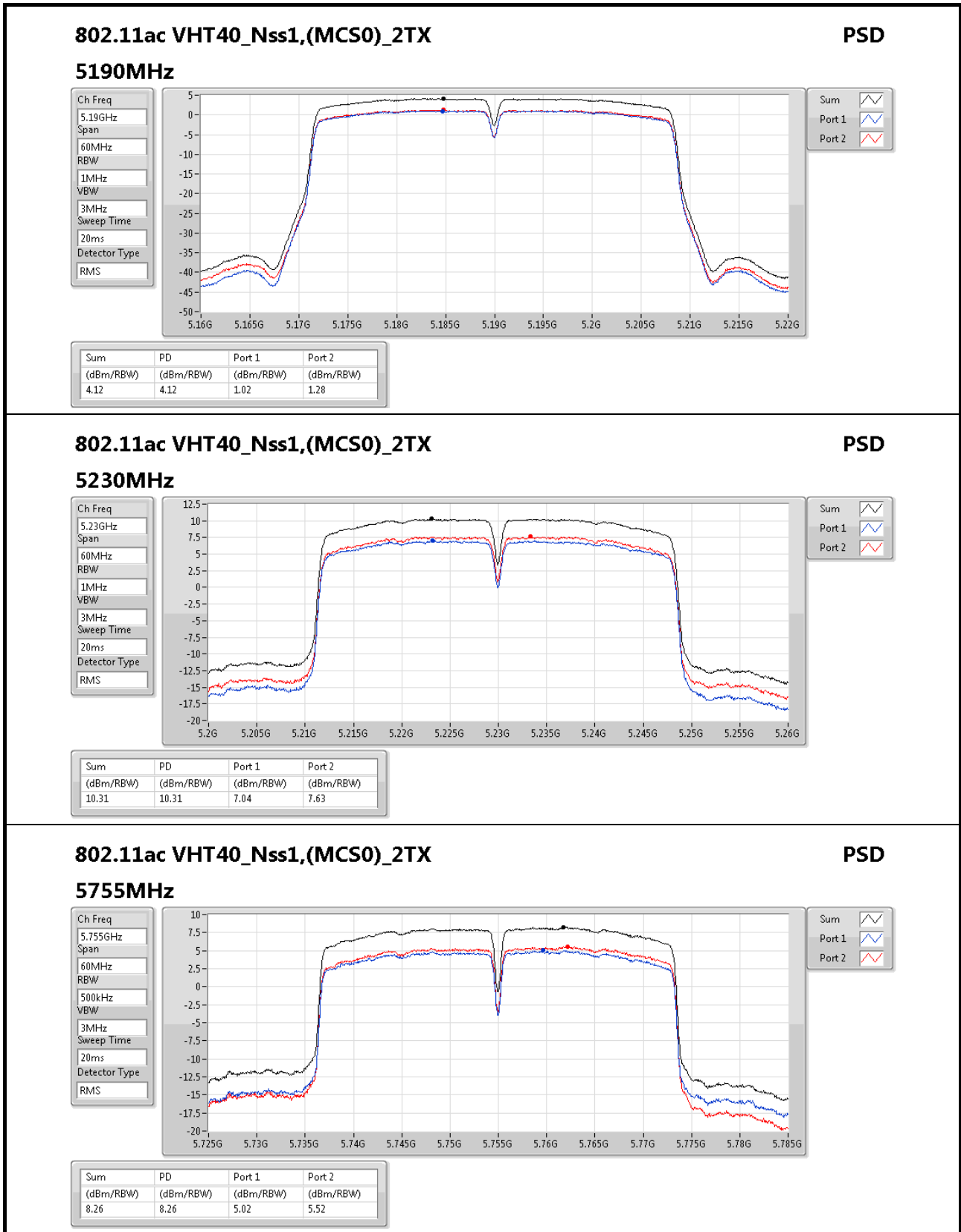
Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.57	11.57	8.14	9.00







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

#### 5755MHz

**PSD**

Ch Freq  
5.755GHz

Span  
60MHz

RBW  
500kHz

VBW  
3MHz

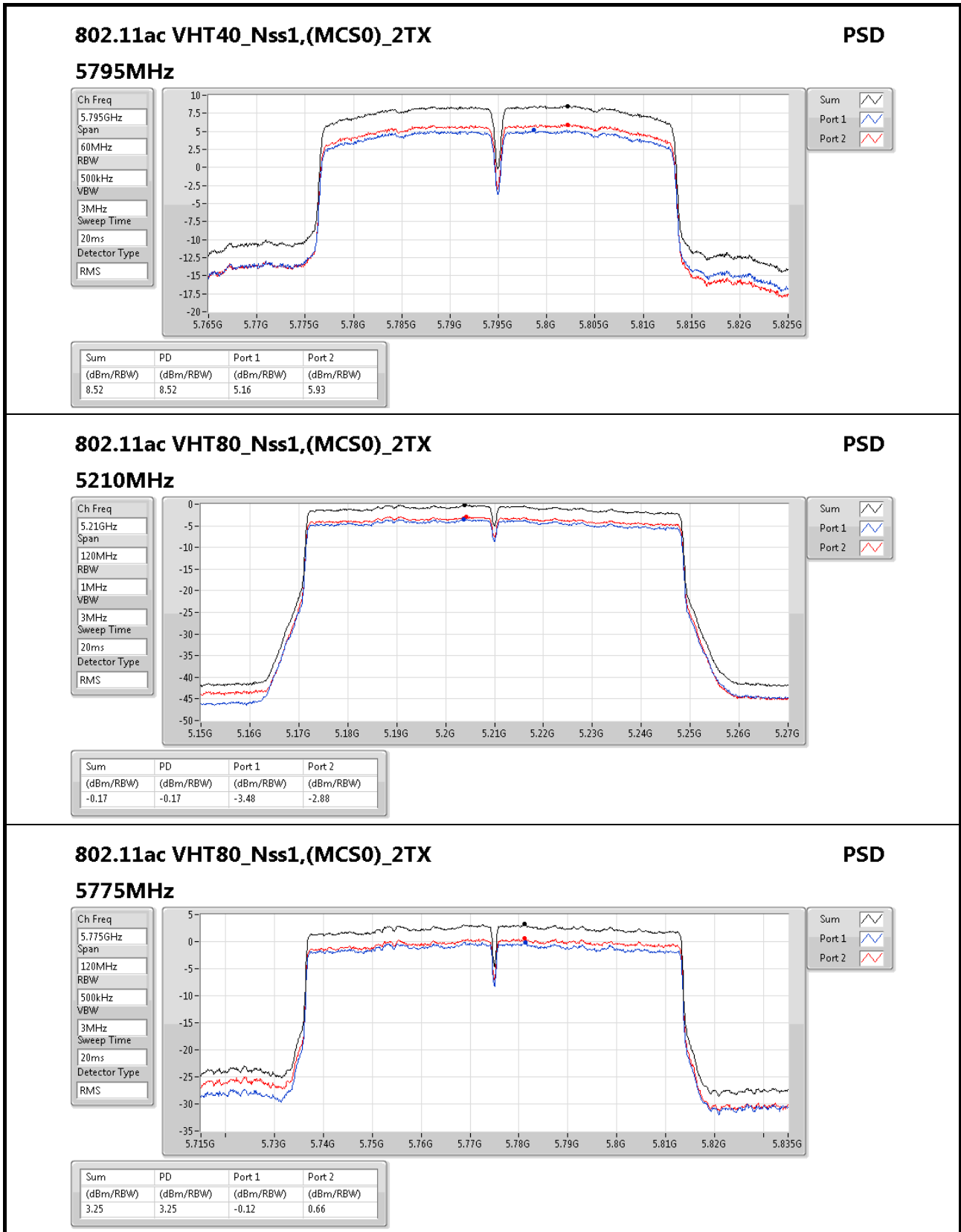
Sweep Time  
20ms

Detector Type  
RMS

Sum

Port 1

Port 2



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

5775MHz

**PSD**

Ch Freq  
5.775GHz

Span  
120MHz

RBW  
500kHz

VBW  
3MHz

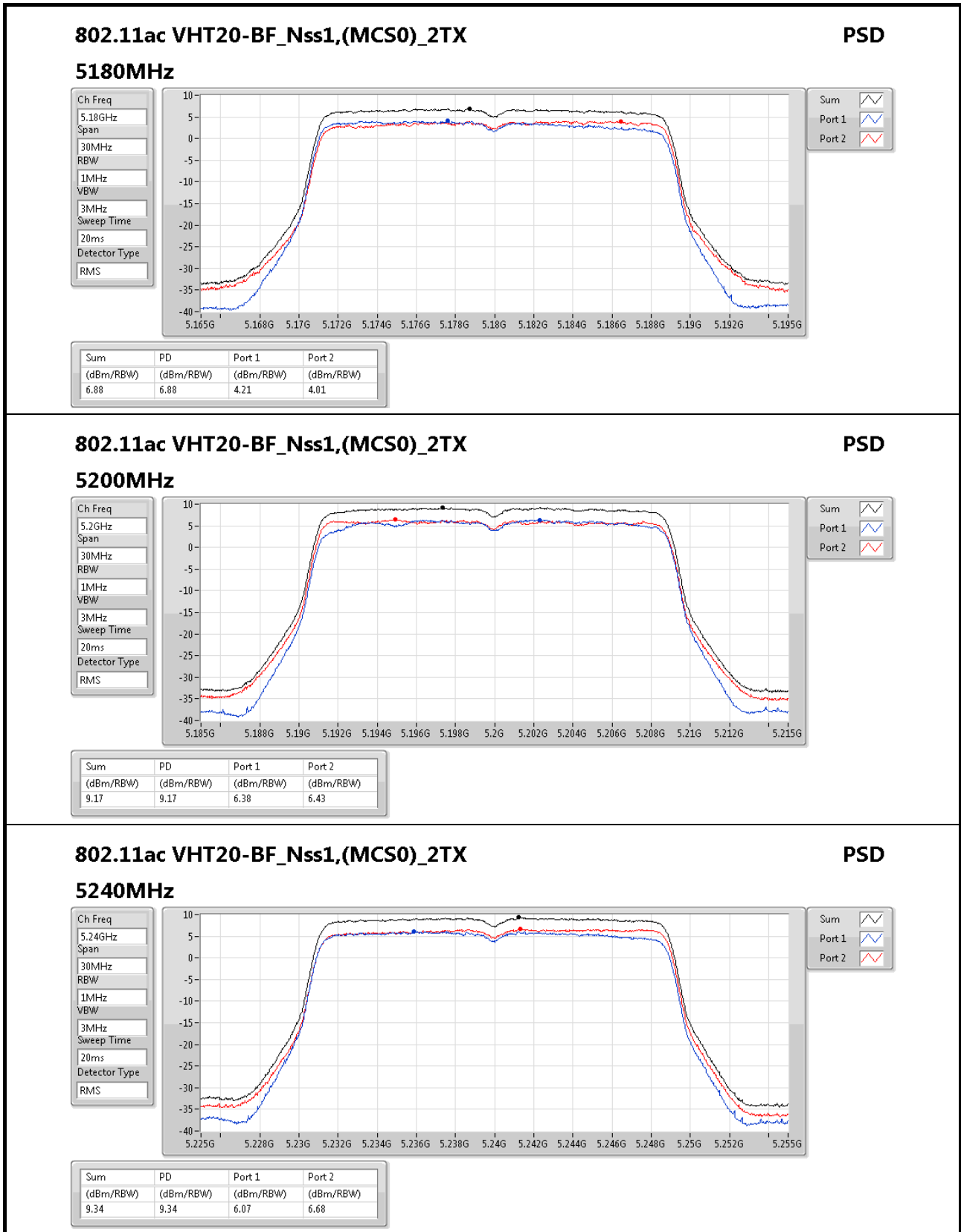
Sweep Time  
20ms

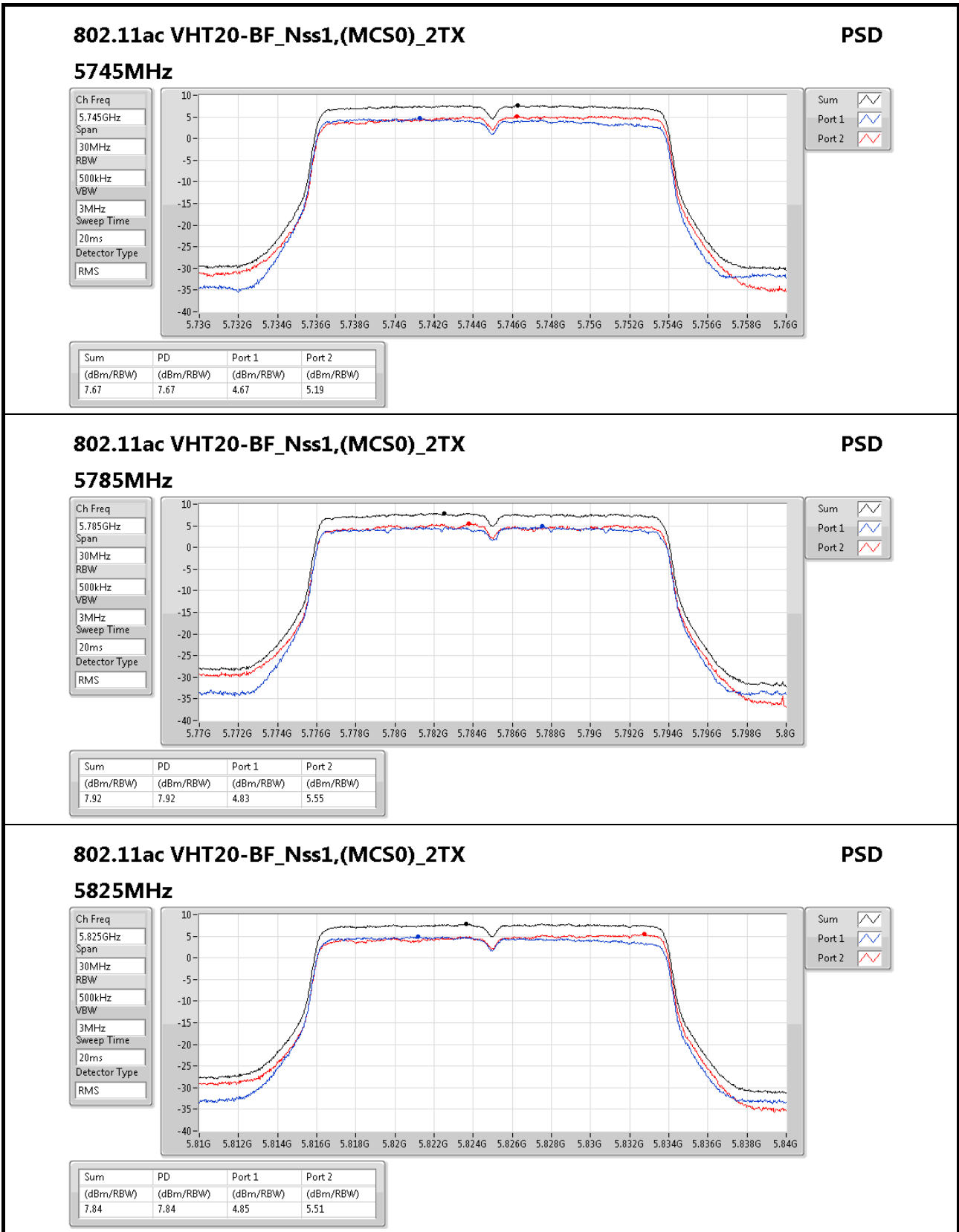
Detector Type  
RMS

Sum

Port 1

Port 2





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

#### 5825MHz

**PSD**

Ch Freq  
5.825GHz

Span  
30MHz

RBW  
500kHz

VBW  
3MHz

Sweep Time  
20ms

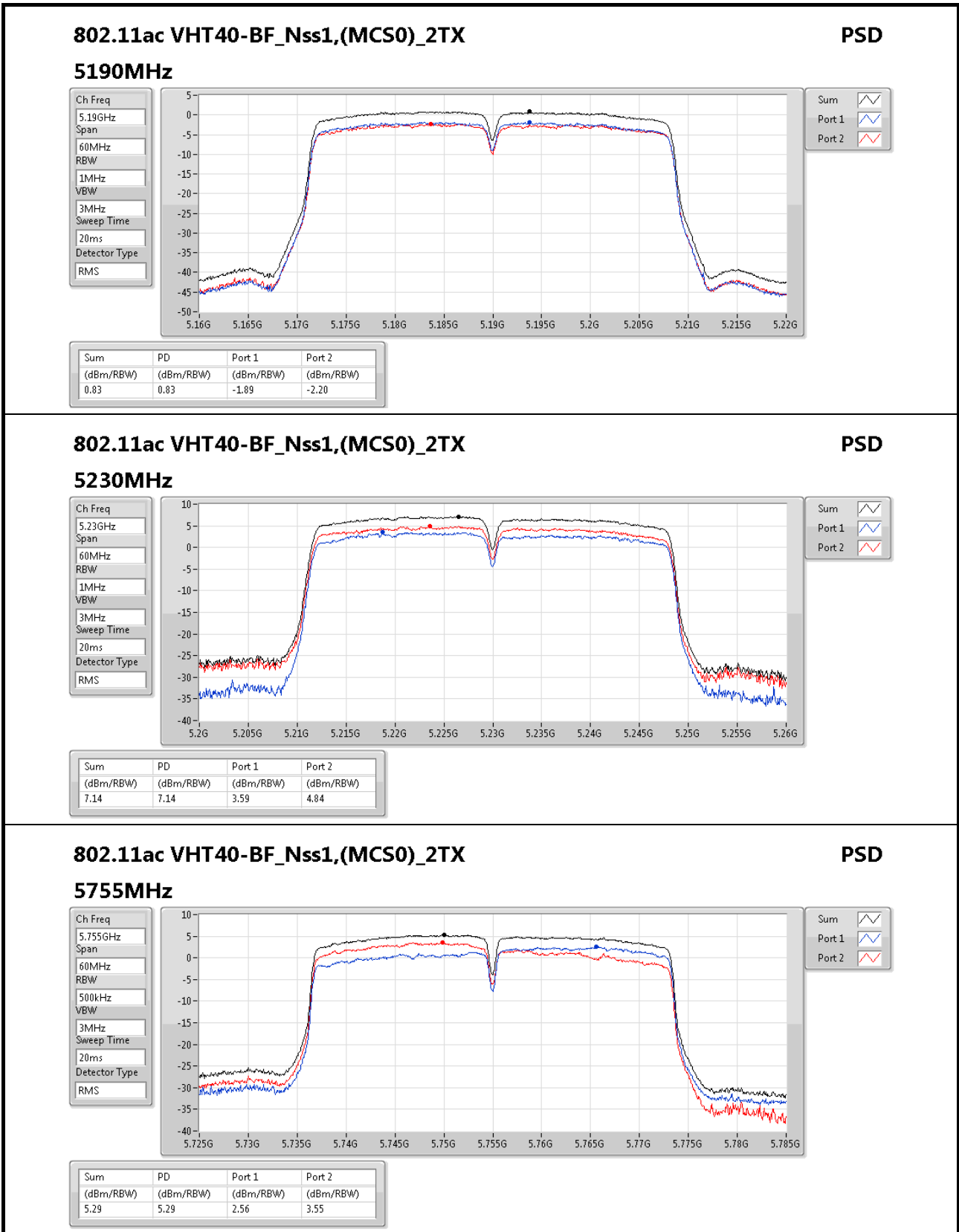
Detector Type  
RMS

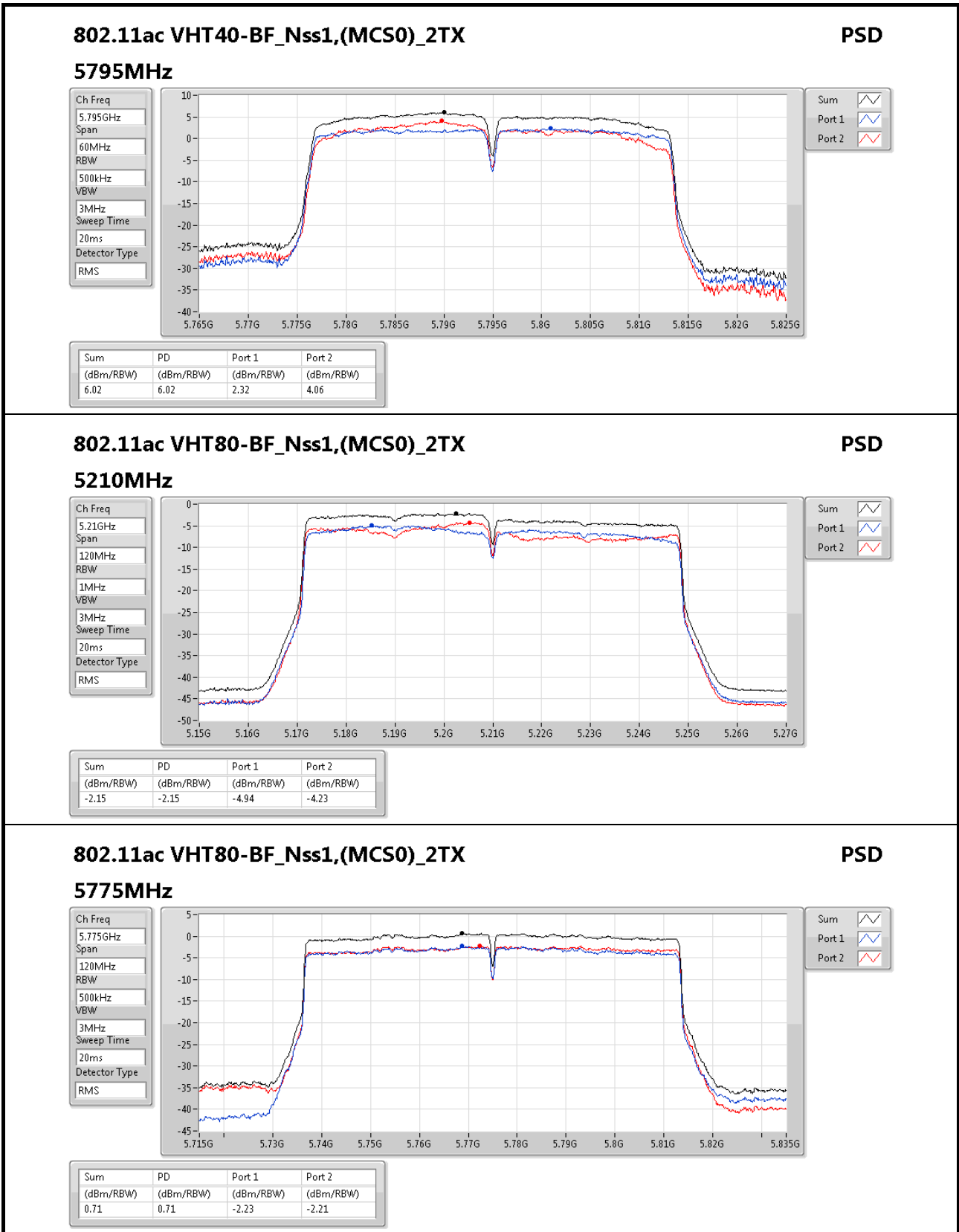
Sum

Port 1

Port 2







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

**5775MHz**

**PSD**

Ch Freq  
5.775GHz

Span  
120MHz

RBW  
500kHz

VBW  
3MHz

Sweep Time  
20ms

Detector Type  
RMS

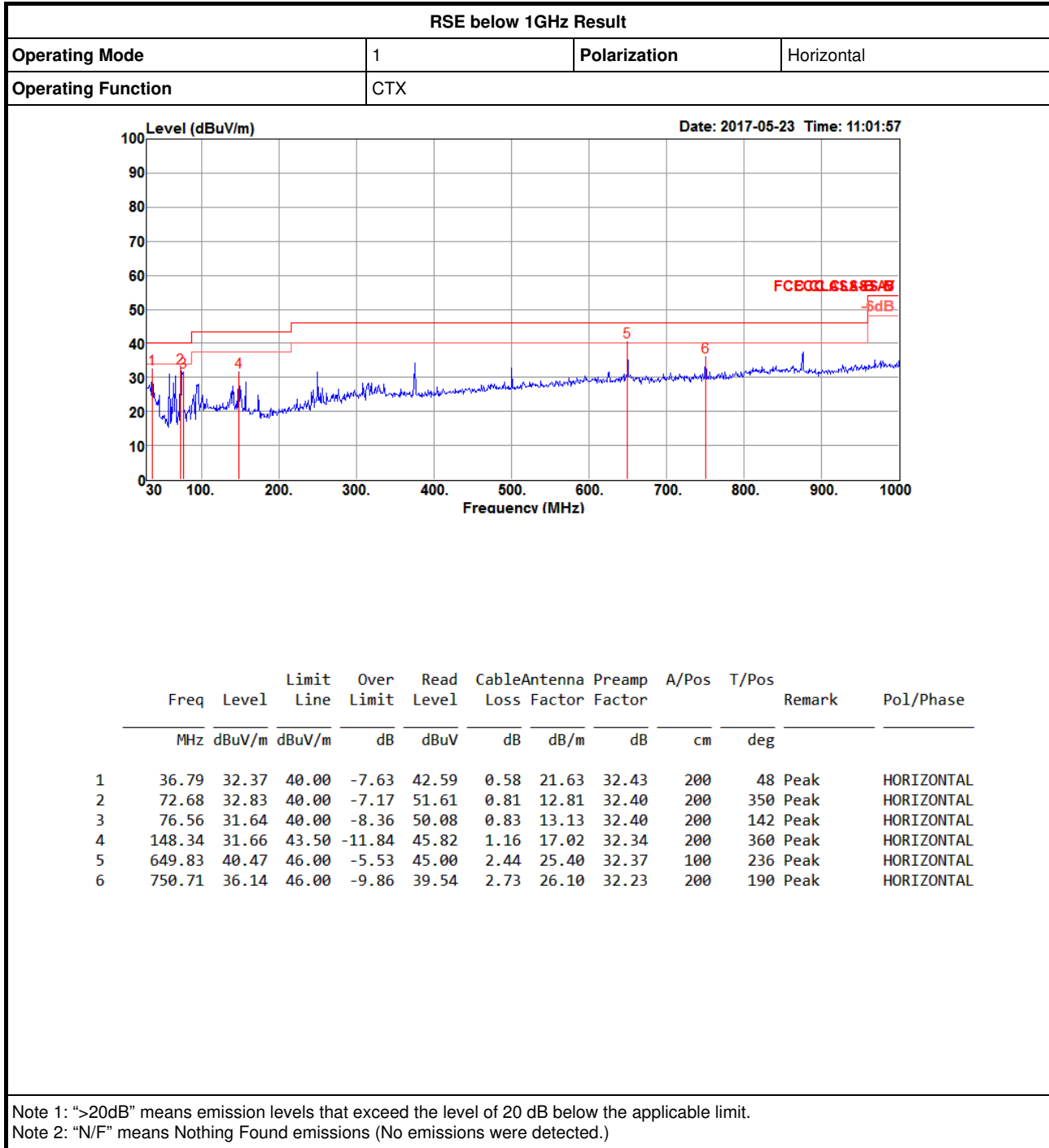
Sum

Port 1

Port 2

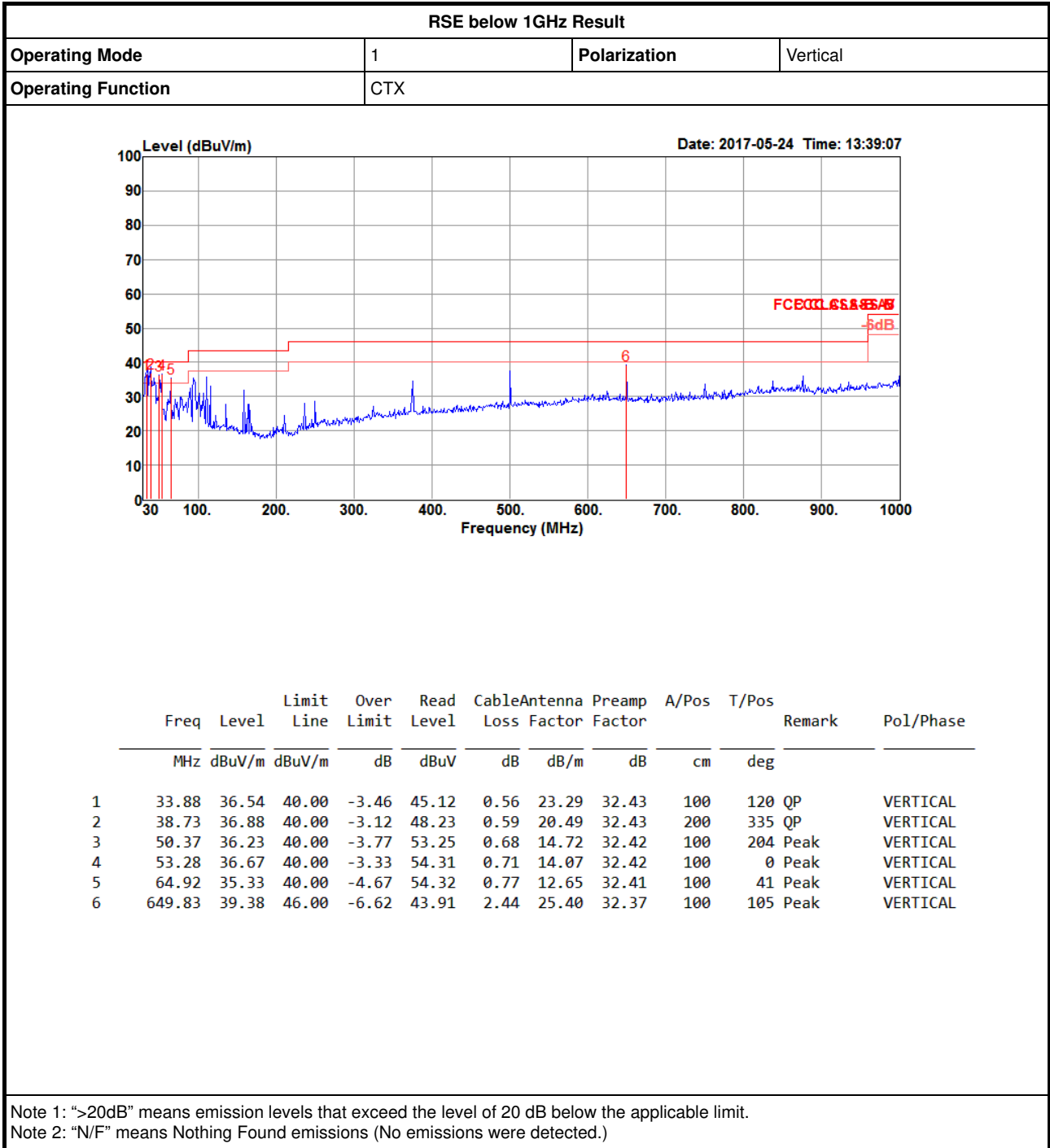


# RSE below 1GHz Result





RSE below 1GHz Result



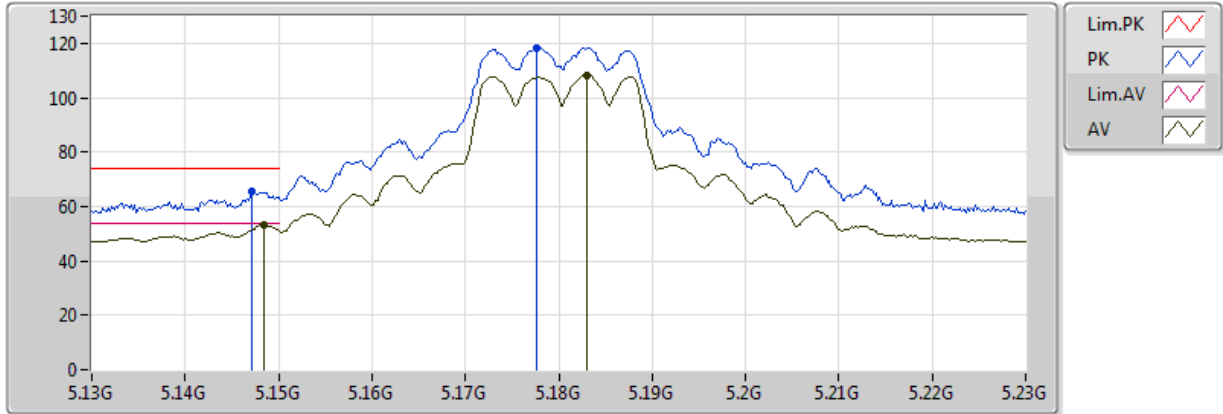


Summary

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	15.53704G	53.98	54.00	-0.02	13.80	3	H	232	1.77	-

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

### 5180MHz\_TX

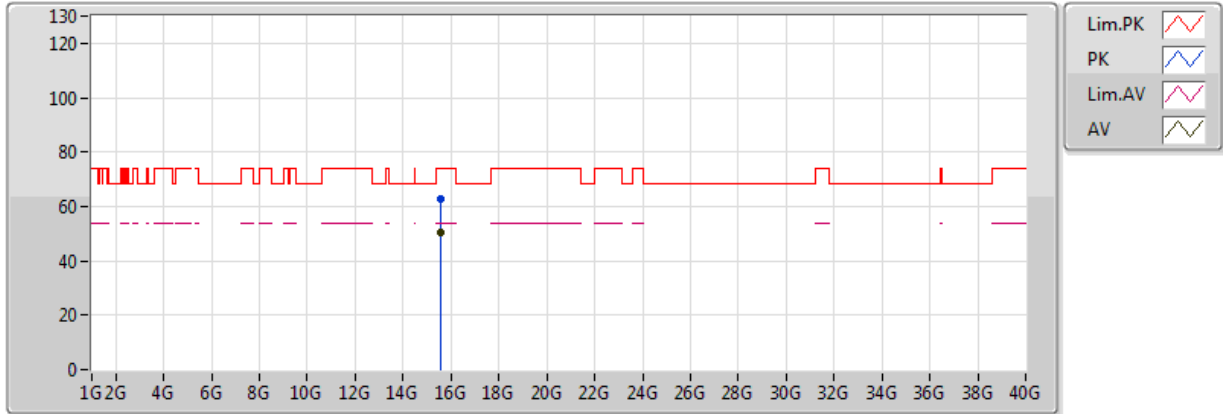


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 18  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1484G	53.35	54.00	-0.65	4.27	3	V	234	1.52	-
AV	5.183G	108.11	Inf	-Inf	4.34	3	V	234	1.52	-
PK	5.1472G	65.54	74.00	-8.46	4.26	3	V	234	1.52	-
PK	5.1776G	118.39	Inf	-Inf	4.33	3	V	234	1.52	-

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

### 5180MHz\_TX

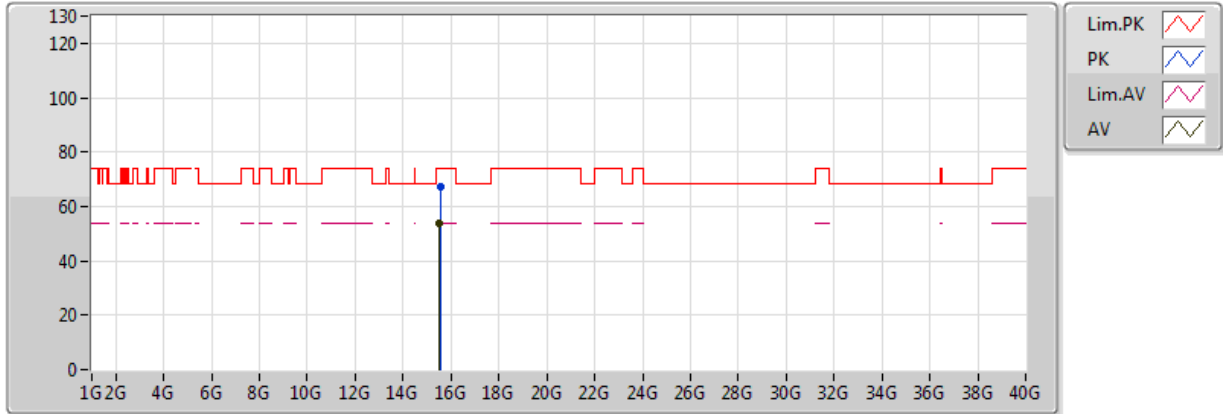


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 18  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53904G	50.35	54.00	-3.65	13.80	3	V	42	1.51	-
PK	15.54728G	62.97	74.00	-11.03	13.79	3	V	42	1.51	-

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

### 5180MHz\_TX



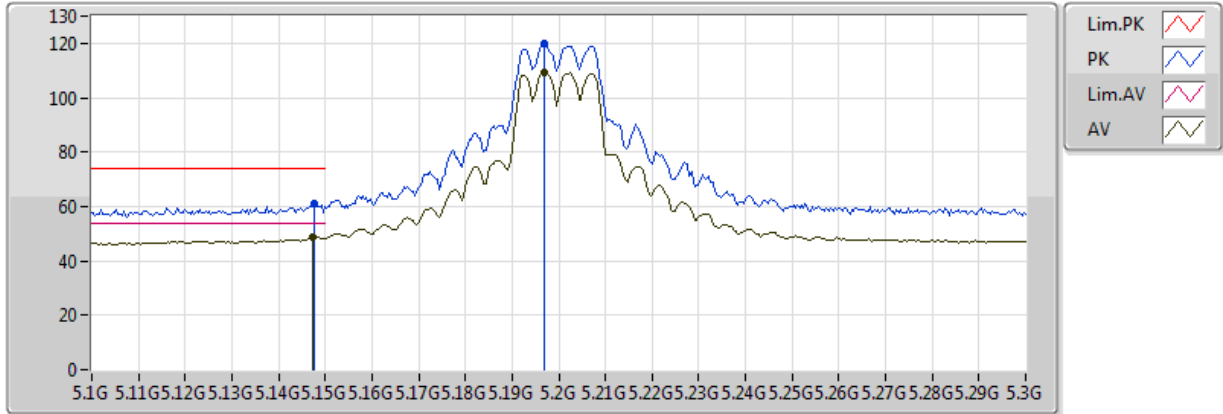
20170517  
 EUT Y 2TX ANT Dipole  
 Setting 18  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53704G	53.98	54.00	-0.02	13.80	3	H	232	1.77	-
PK	15.54232G	66.99	74.00	-7.01	13.80	3	H	232	1.77	-



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

### 5200MHz\_TX

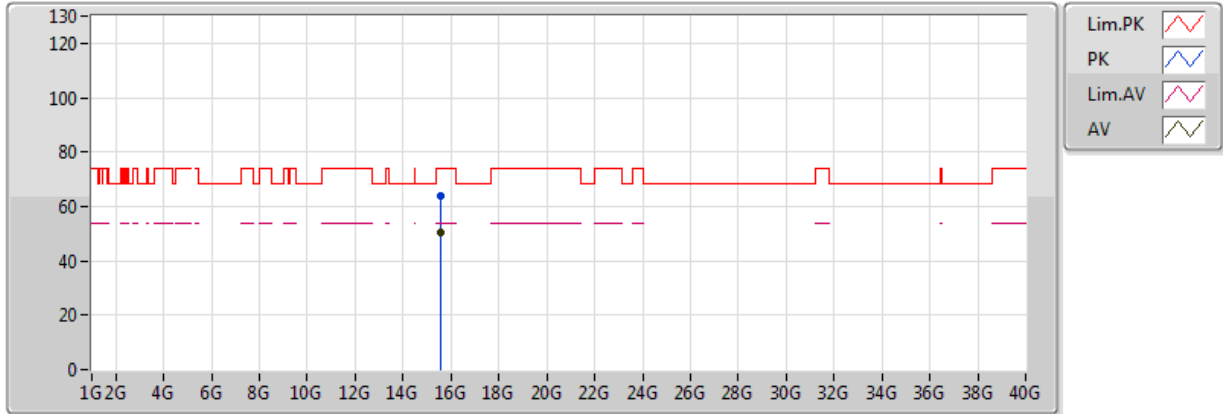


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 18.5  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1472G	48.93	54.00	-5.07	4.26	3	V	217	1.59	-
AV	5.1968G	109.45	Inf	-Inf	4.37	3	V	217	1.59	-
PK	5.1476G	60.90	74.00	-13.10	4.26	3	V	217	1.59	-
PK	5.1968G	120.11	Inf	-Inf	4.37	3	V	217	1.59	-

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

### 5200MHz\_TX

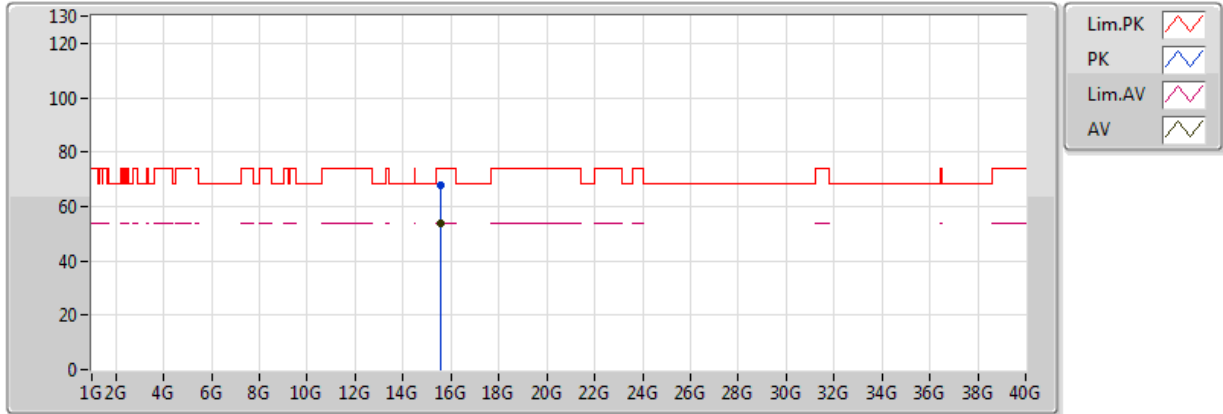


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 18.5  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.6004G	50.66	54.00	-3.34	13.73	3	V	42	1.58	-
PK	15.60032G	63.91	74.00	-10.09	13.73	3	V	42	1.58	-

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

### 5200MHz\_TX

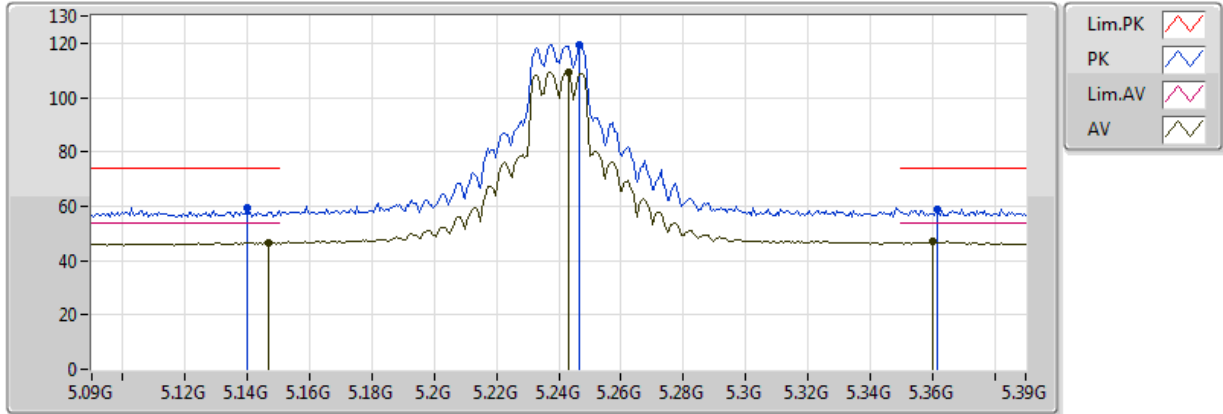


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 18.5  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.60008G	53.73	54.00	-0.27	13.73	3	H	229	1.72	-
PK	15.59488G	67.62	74.00	-6.38	13.73	3	H	229	1.72	-

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

### 5240MHz\_TX

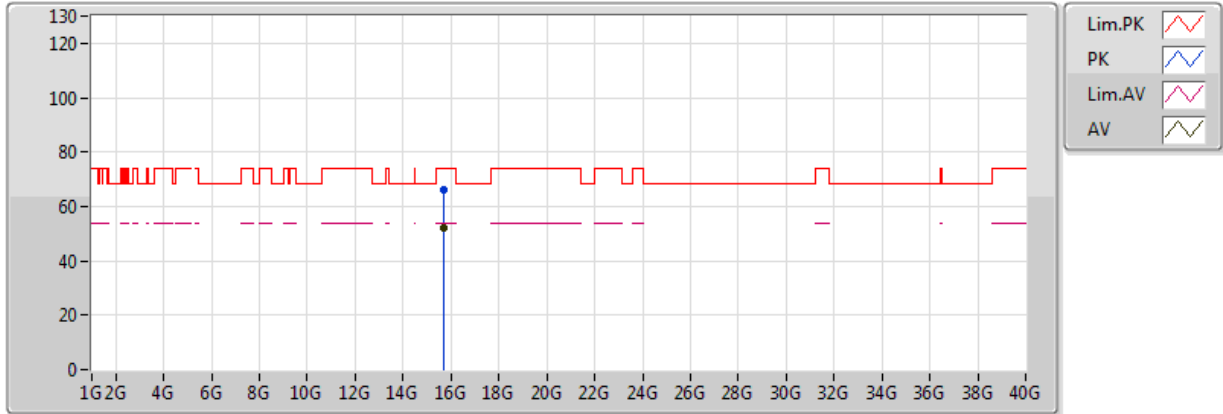


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 19.5  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.147G	46.44	54.00	-7.56	4.26	3	V	351	1.62	-
AV	5.243G	109.10	Inf	-Inf	4.47	3	V	351	1.62	-
AV	5.36G	46.80	54.00	-7.20	4.70	3	V	351	1.62	-
PK	5.1398G	59.27	74.00	-14.73	4.25	3	V	351	1.62	-
PK	5.2466G	119.26	Inf	-Inf	4.48	3	V	351	1.62	-
PK	5.3618G	59.02	74.00	-14.98	4.70	3	V	351	1.62	-

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

### 5240MHz\_TX

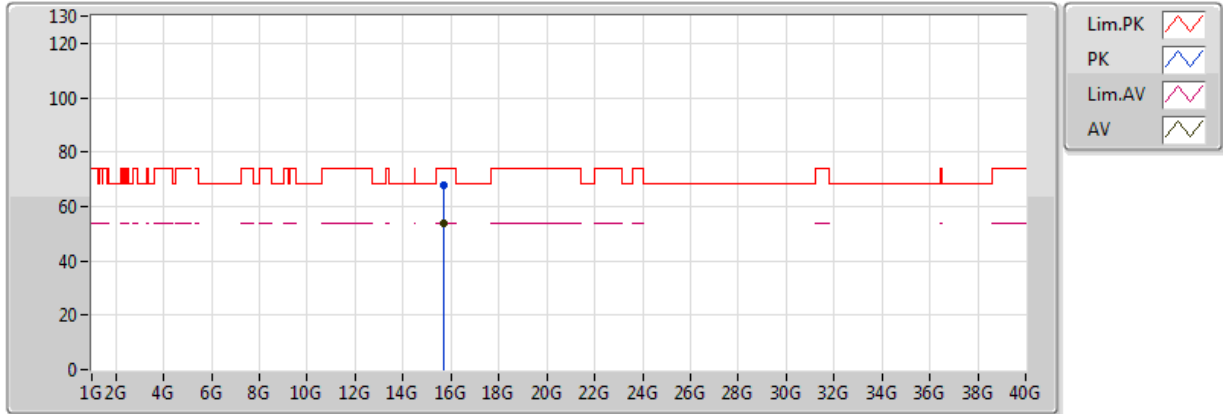


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 19.5  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.72008G	52.19	54.00	-1.81	13.58	3	V	357	2.15	-
PK	15.72032G	66.21	74.00	-7.79	13.58	3	V	357	2.15	-

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

### 5240MHz\_TX

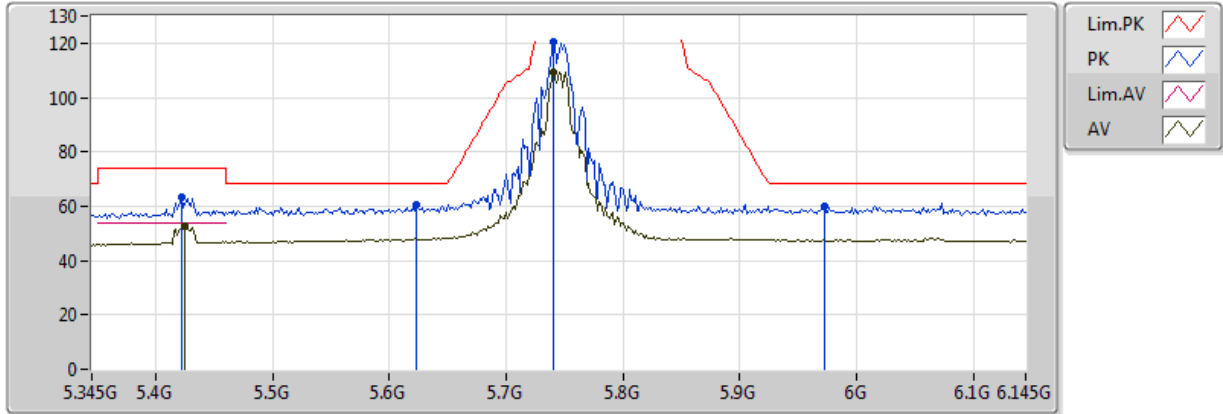


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 19.5  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.7176G	53.91	54.00	-0.09	13.58	3	H	231	1.75	-
PK	15.7172G	67.75	74.00	-6.25	13.58	3	H	231	1.75	-

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

### 5745MHz\_TX

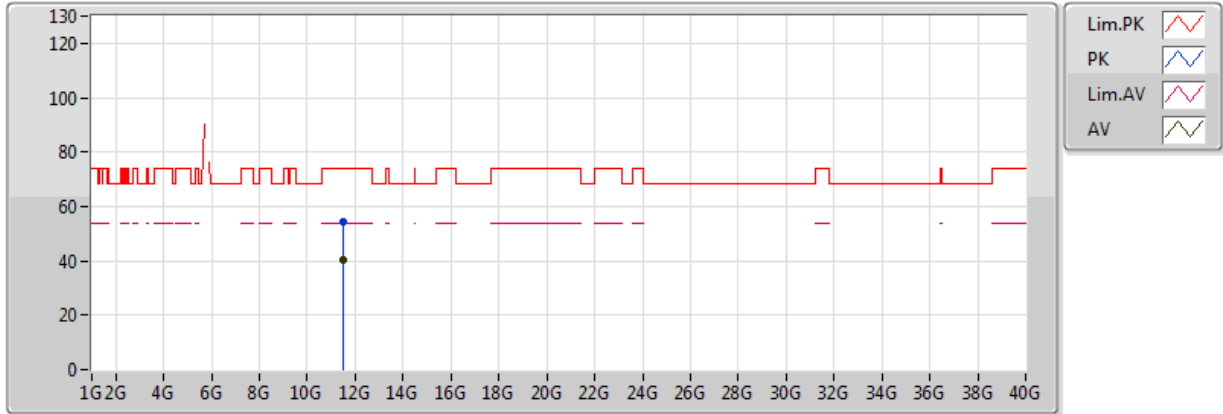


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7402G	109.12	Inf	-Inf	5.79	3	V	224	1.80	-
PK	5.6234G	60.53	68.20	-7.67	5.45	3	V	224	1.80	-
PK	5.7402G	120.72	Inf	-Inf	5.79	3	V	224	1.80	-
PK	5.9722G	60.00	68.20	-8.20	6.61	3	V	224	1.80	-
PK	5.4218G	63.05	74.00	-10.95	5.79	3	V	NaN	NaN	-
AV	5.425G	52.56	54.00	-1.44	5.79	3	V	NaN	NaN	-

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

### 5745MHz\_TX



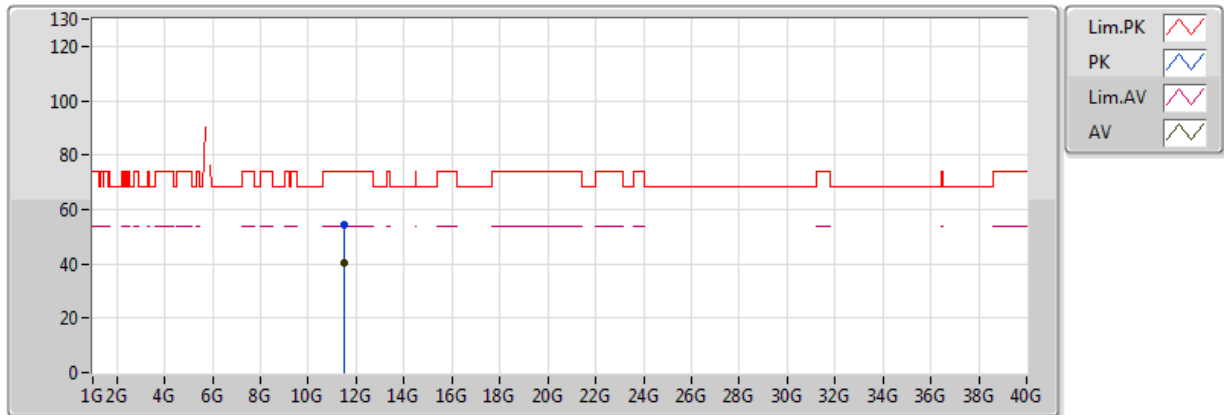
20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.49504G	40.53	54.00	-13.47	12.04	3	V	148	1.52	-
PK	11.50144G	54.63	74.00	-19.37	12.05	3	V	148	1.52	-



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

### 5745MHz\_TX

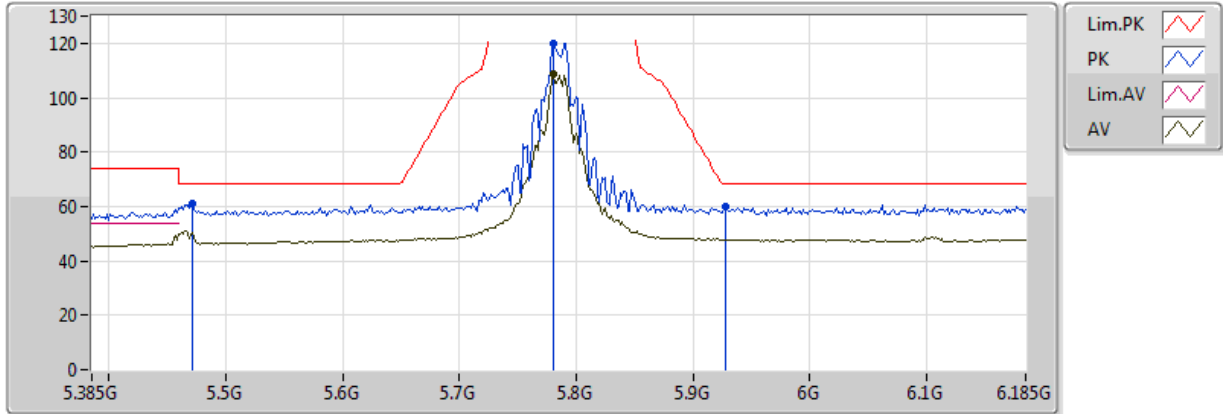


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.49616G	40.48	54.00	-13.52	12.04	3	H	352	2.30	-
PK	11.47344G	54.10	74.00	-19.90	12.03	3	H	352	2.30	-

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

### 5785MHz\_TX

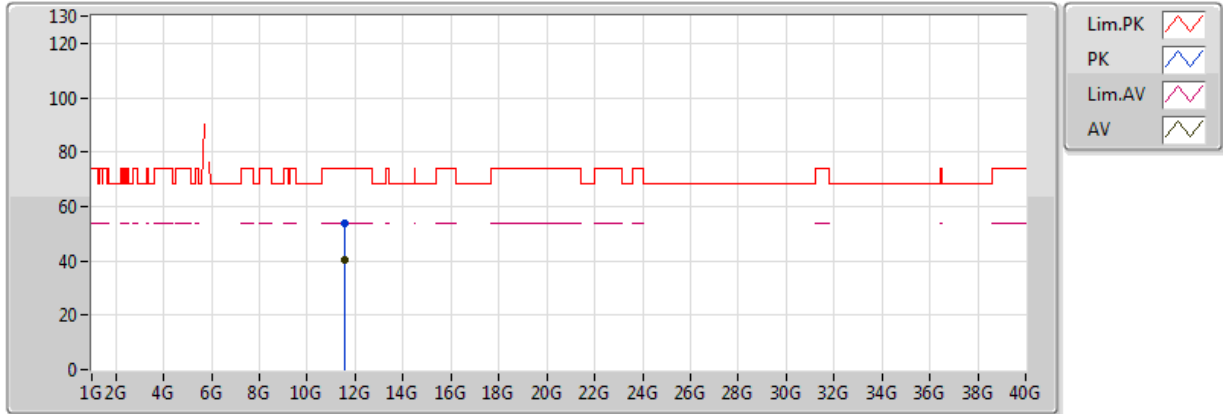


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7802G	108.68	Inf	-Inf	5.90	3	V	311	2.24	-
PK	5.4714G	61.21	68.20	-6.99	4.96	3	V	311	2.24	-
PK	5.7802G	120.07	Inf	-Inf	5.90	3	V	311	2.24	-
PK	5.9274G	59.83	68.20	-8.37	6.44	3	V	311	2.24	-

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

### 5785MHz\_TX

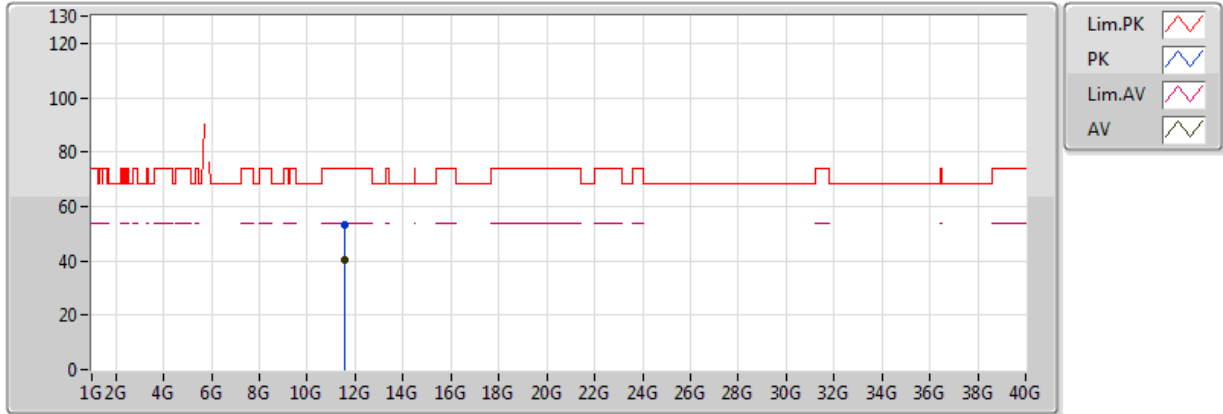


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.5718G	40.53	54.00	-13.47	12.08	3	V	221	2.25	-
PK	11.57856G	53.79	74.00	-20.21	12.08	3	V	221	2.25	-

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

### 5785MHz\_TX

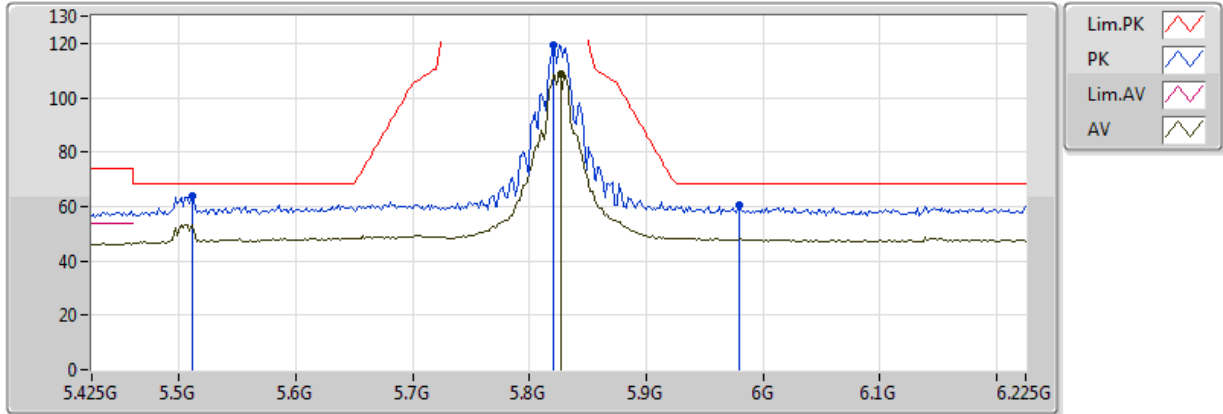


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57624G	40.55	54.00	-13.45	12.08	3	H	99	1.74	-
PK	11.56324G	53.31	74.00	-20.69	12.08	3	H	99	1.74	-

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

### 5825MHz\_TX

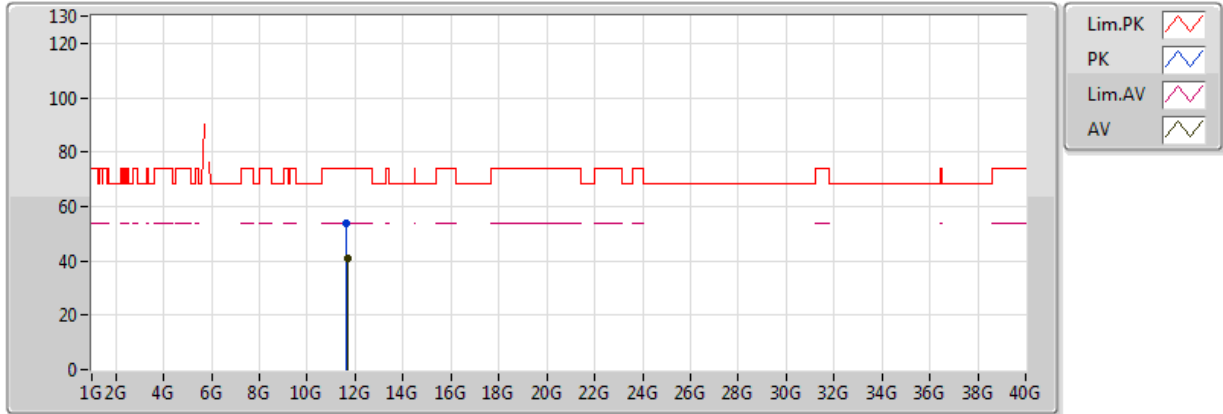


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.8266G	108.76	Inf	-Inf	6.06	3	V	358	1.77	-
PK	5.5114G	64.00	68.20	-4.20	5.07	3	V	358	1.77	-
PK	5.8202G	119.62	Inf	-Inf	6.04	3	V	358	1.77	-
PK	5.9802G	60.63	68.20	-7.57	6.64	3	V	358	1.77	-

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

### 5825MHz\_TX

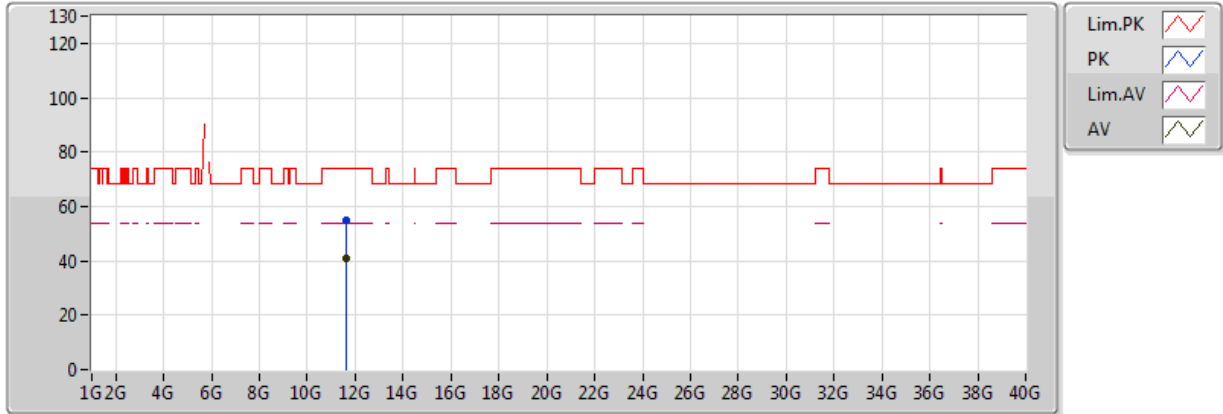


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.6576G	40.68	54.00	-13.32	12.12	3	V	302	1.31	-
PK	11.65524G	53.72	74.00	-20.28	12.12	3	V	302	1.31	-

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

### 5825MHz\_TX

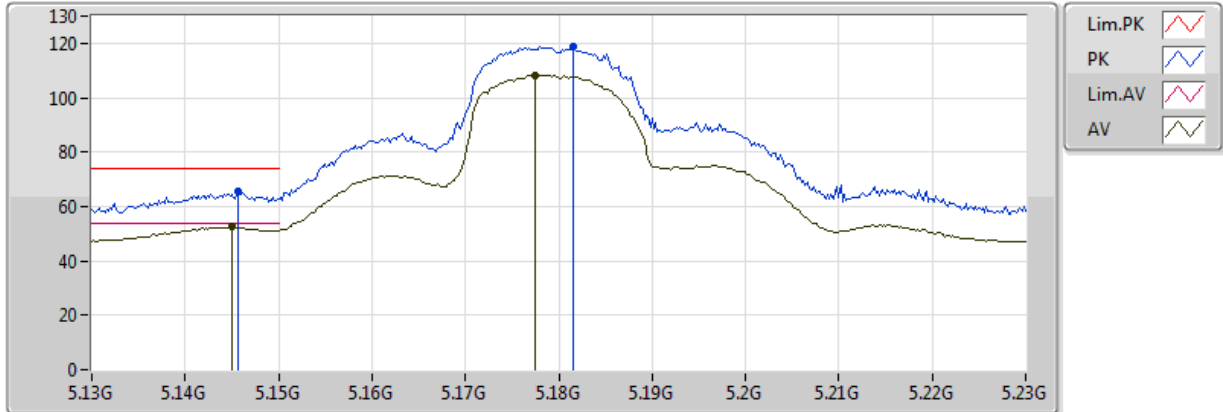


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.65196G	40.67	54.00	-13.33	12.12	3	H	142	1.34	-
PK	11.6542G	54.81	74.00	-19.19	12.12	3	H	142	1.34	-

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

### 5180MHz\_TX



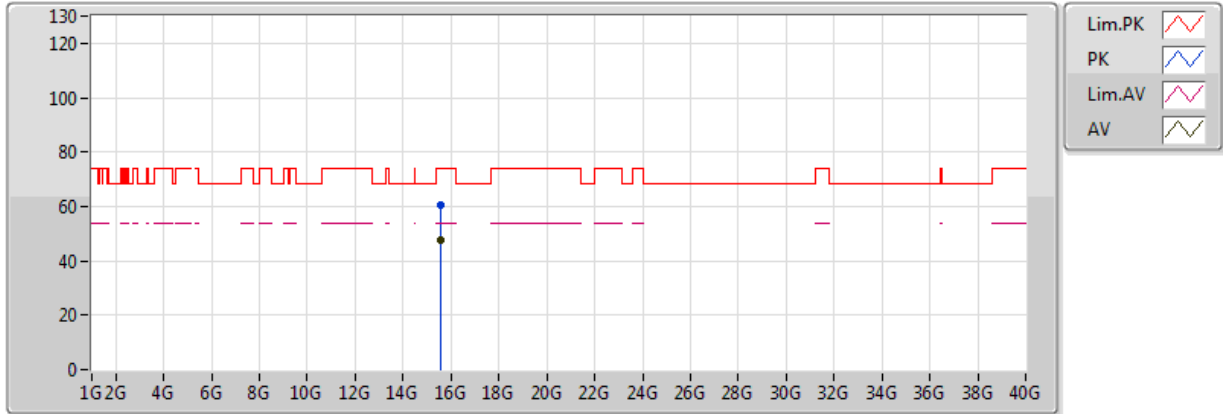
20170517  
 EUT Y 2TX ANT Dipole  
 Setting 19  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.145G	52.40	54.00	-1.60	4.26	3	V	349	1.49	-
AV	5.1774G	108.38	Inf	-Inf	4.33	3	V	349	1.49	-
PK	5.1456G	65.56	74.00	-8.44	4.26	3	V	349	1.49	-
PK	5.1816G	118.83	Inf	-Inf	4.34	3	V	349	1.49	-



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

### 5180MHz\_TX

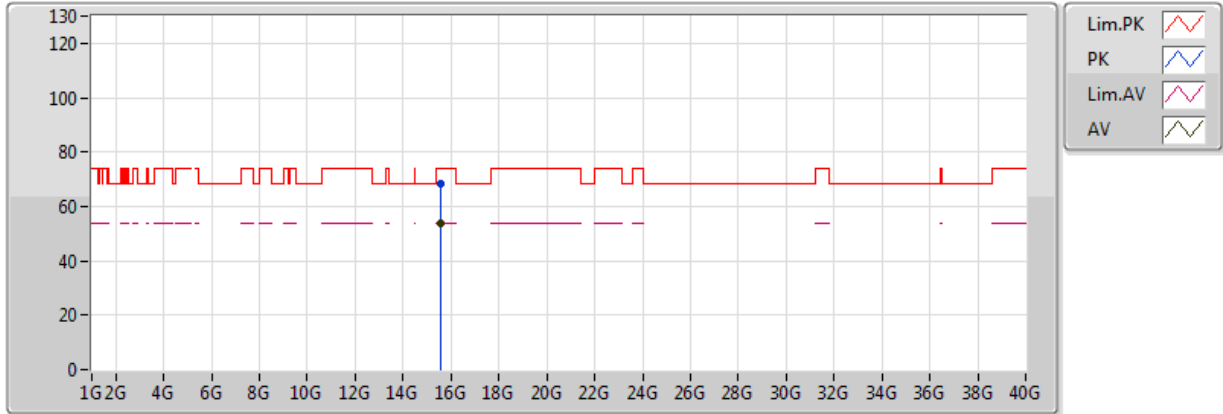


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 19  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.5384G	47.52	54.00	-6.48	13.80	3	V	360	2.65	-
PK	15.5416G	60.54	74.00	-13.46	13.80	3	V	360	2.65	-

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

### 5180MHz\_TX

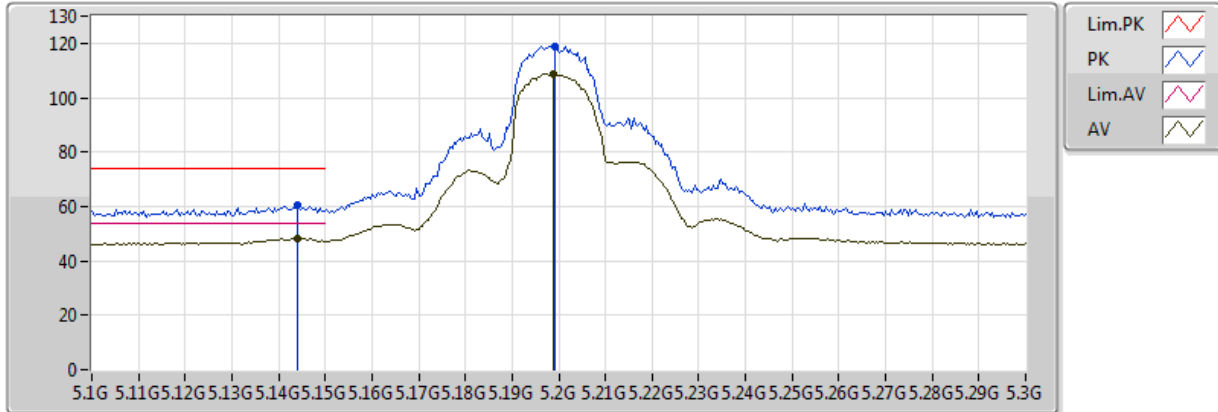


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 19  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53912G	53.97	54.00	-0.03	13.80	3	H	234	1.75	-
PK	15.54104G	68.28	74.00	-5.72	13.80	3	H	234	1.75	-

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

### 5200MHz\_TX

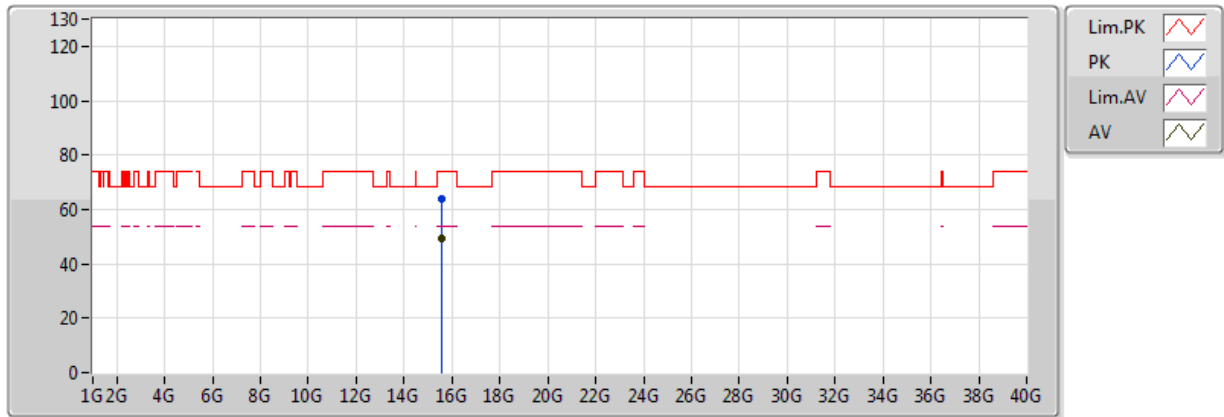


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 19  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.144G	48.30	54.00	-5.70	4.26	3	V	349	1.49	-
AV	5.1988G	108.68	Inf	-Inf	4.38	3	V	349	1.49	-
PK	5.144G	60.77	74.00	-13.23	4.26	3	V	349	1.49	-
PK	5.1992G	118.83	Inf	-Inf	4.38	3	V	349	1.49	-

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

### 5200MHz\_TX

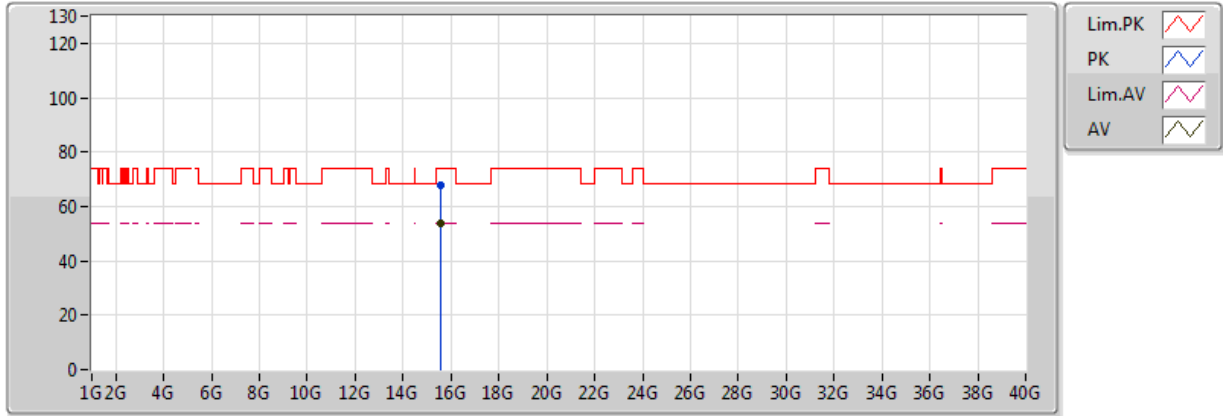


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 19  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.59664G	49.58	54.00	-4.42	13.73	3	V	357	2.15	-
PK	15.59536G	63.86	74.00	-10.14	13.73	3	V	357	2.15	-

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

### 5200MHz\_TX

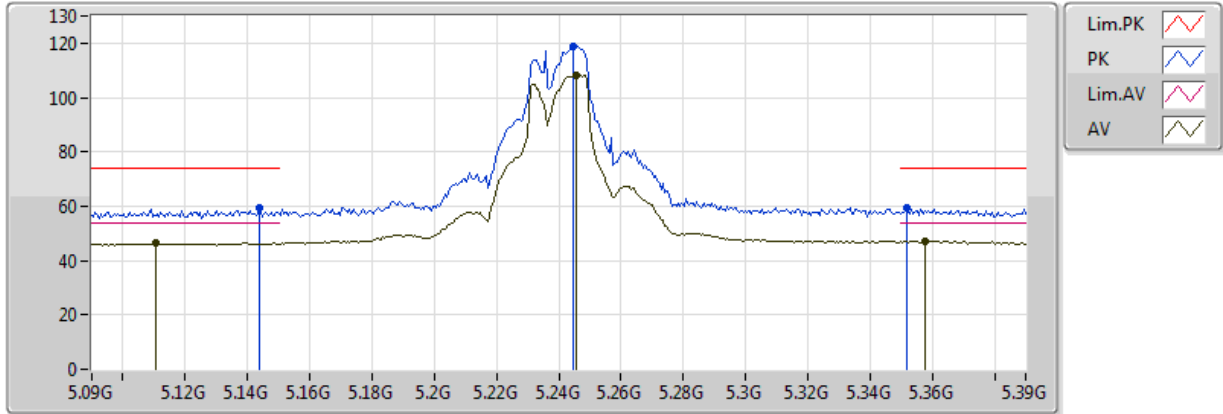


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 19  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.60072G	53.96	54.00	-0.04	13.73	3	H	234	1.76	-
PK	15.59512G	67.84	74.00	-6.16	13.73	3	H	234	1.76	-

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

### 5240MHz\_TX

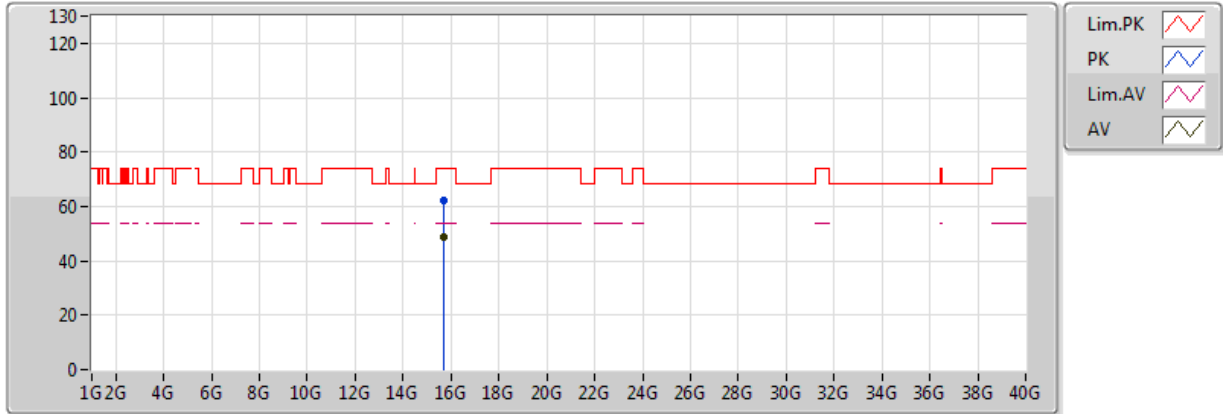


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 20  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1104G	46.46	54.00	-7.54	4.18	3	V	4	1.36	-
AV	5.2454G	108.35	Inf	-Inf	4.48	3	V	4	1.36	-
AV	5.3576G	47.04	54.00	-6.96	4.69	3	V	4	1.36	-
PK	5.144G	59.23	74.00	-14.77	4.26	3	V	4	1.36	-
PK	5.2448G	118.80	Inf	-Inf	4.47	3	V	4	1.36	-
PK	5.3516G	59.20	74.00	-14.80	4.68	3	V	4	1.36	-

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

### 5240MHz\_TX

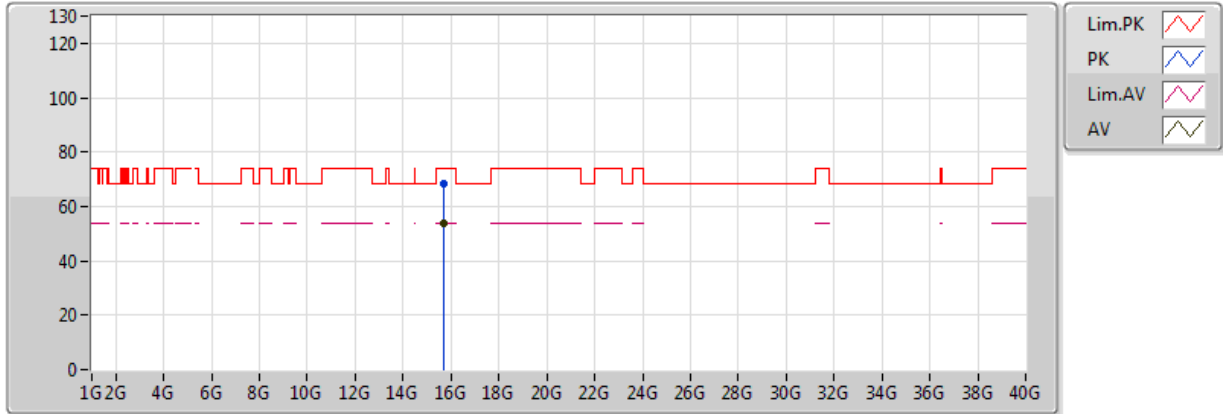


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 20  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71576G	48.95	54.00	-5.05	13.58	3	V	123	2.67	-
PK	15.7148G	62.20	74.00	-11.80	13.58	3	V	123	2.67	-

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

### 5240MHz\_TX



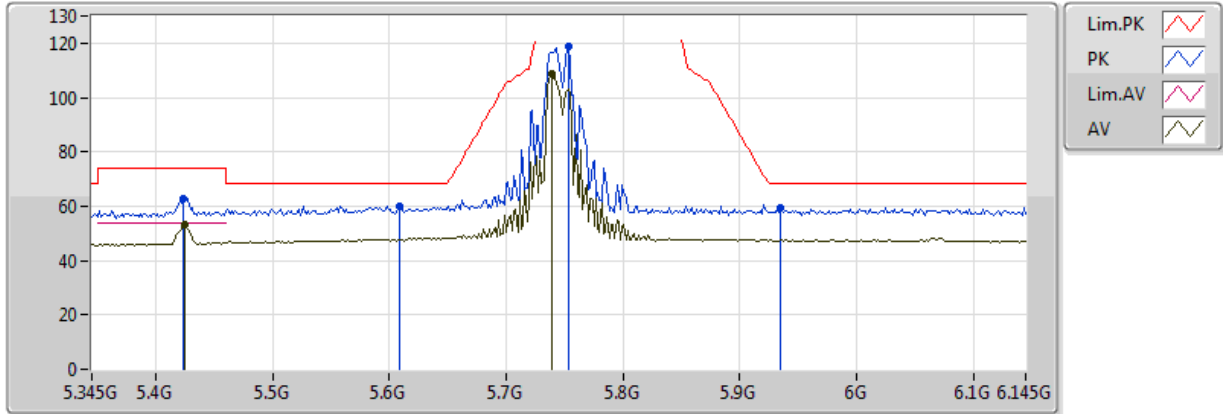
20170517  
 EUT Y 2TX ANT Dipole  
 Setting 20  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71816G	53.93	54.00	-0.07	13.58	3	H	230	1.75	-
PK	15.71784G	68.27	74.00	-5.73	13.58	3	H	230	1.75	-



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

### 5745MHz\_TX

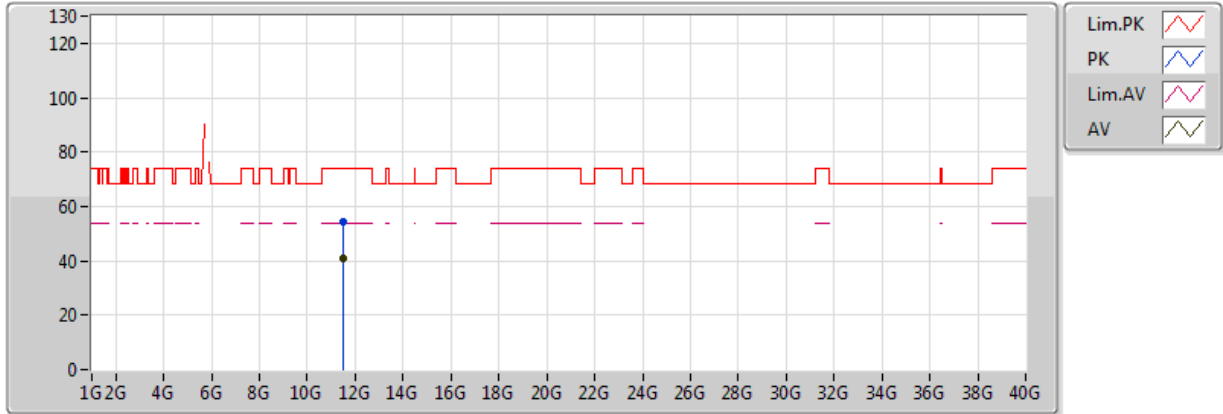


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.425G	53.27	54.00	-0.73	4.84	3	V	220	1.77	-
AV	5.7386G	108.50	Inf	-Inf	5.79	3	V	220	1.77	-
PK	5.4234G	62.75	74.00	-11.25	4.83	3	V	220	1.77	-
PK	5.609G	59.84	68.20	-8.36	5.41	3	V	220	1.77	-
PK	5.753G	118.57	Inf	-Inf	5.83	3	V	220	1.77	-
PK	5.9354G	59.43	68.20	-8.77	6.47	3	V	220	1.77	-

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

### 5745MHz\_TX

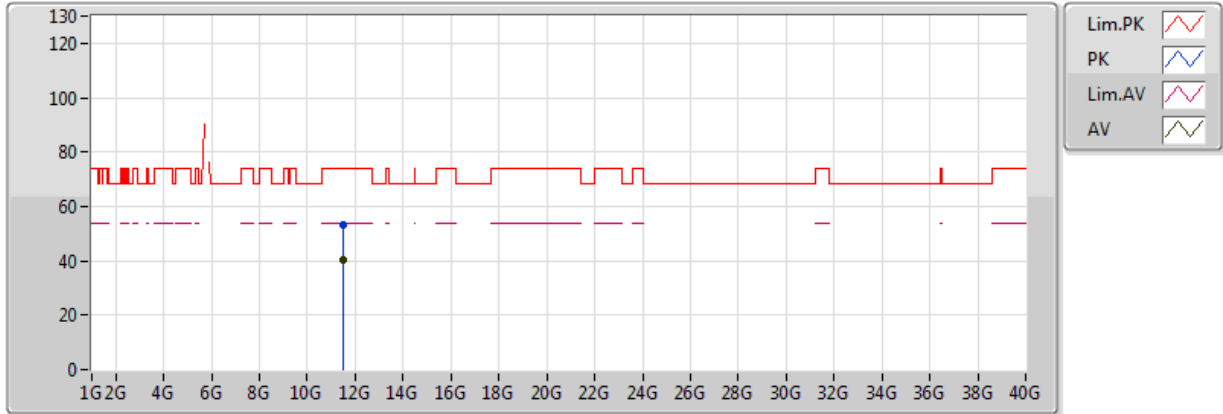


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.49712G	40.70	54.00	-13.30	12.04	3	V	118	2.05	-
PK	11.508G	54.17	74.00	-19.83	12.05	3	V	118	2.05	-

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

### 5745MHz\_TX

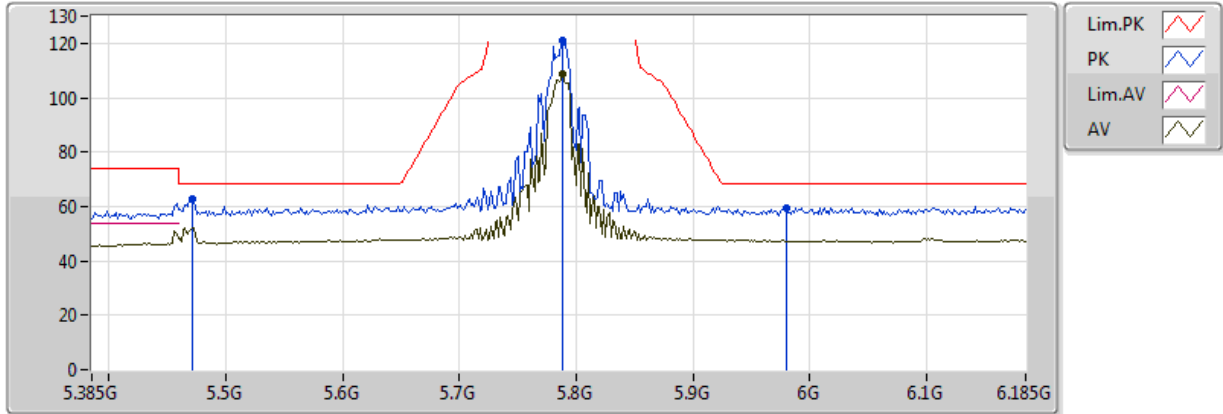


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.49328G	40.34	54.00	-13.66	12.04	3	H	153	2.16	-
PK	11.47664G	53.25	74.00	-20.75	12.03	3	H	153	2.16	-

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

### 5785MHz\_TX

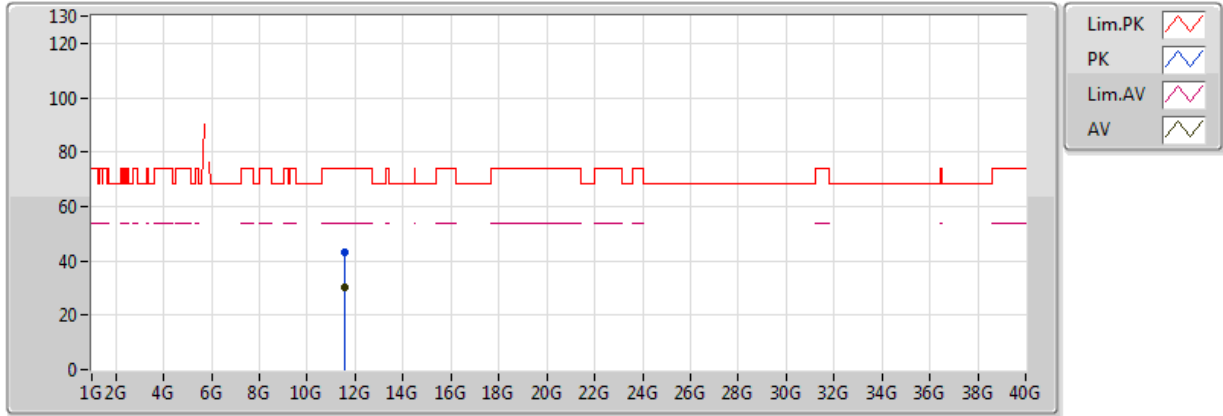


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7882G	108.74	Inf	-Inf	5.93	3	V	223	1.56	-
PK	5.4714G	62.85	68.20	-5.35	4.96	3	V	223	1.56	-
PK	5.7882G	121.10	Inf	-Inf	5.93	3	V	223	1.56	-
PK	5.9802G	59.57	68.20	-8.63	6.64	3	V	223	1.56	-

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

### 5785MHz\_TX

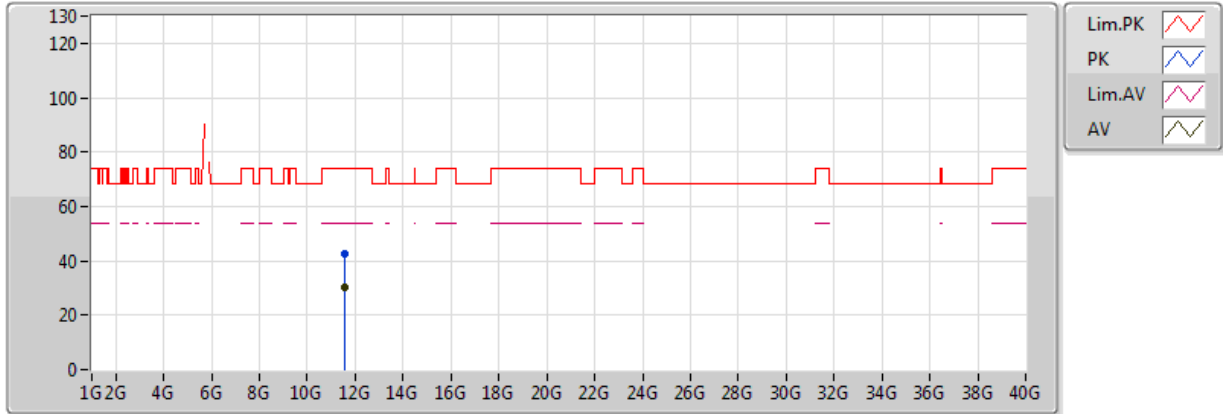


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.55008G	30.20	54.00	-23.80	12.07	3	V	272	1.14	-
PK	11.57984G	43.06	74.00	-30.94	12.08	3	V	272	1.14	-

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

### 5785MHz\_TX

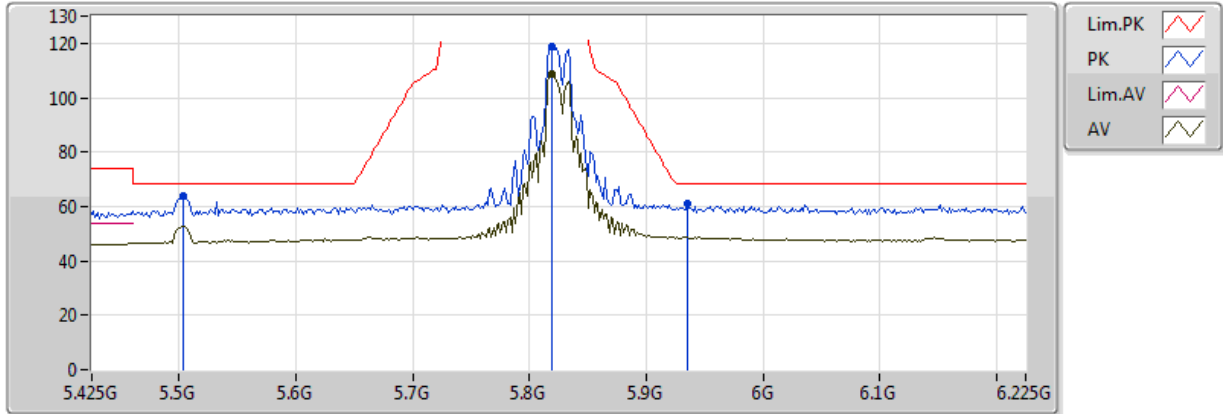


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57008G	30.28	54.00	-23.72	12.08	3	H	253	2.00	-
PK	11.55248G	42.56	74.00	-31.44	12.07	3	H	253	2.00	-

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

### 5825MHz\_TX

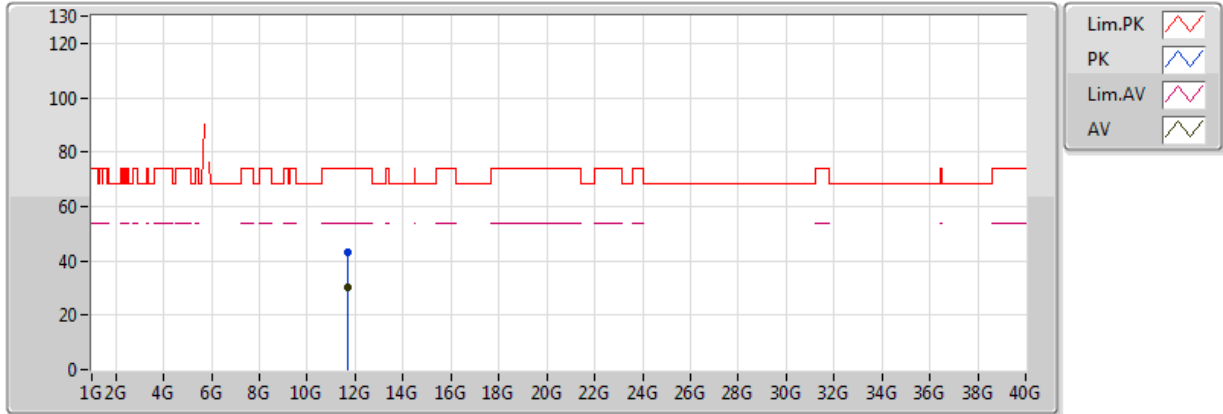


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.8186G	108.70	Inf	-Inf	6.03	3	V	223	2.05	-
PK	5.5034G	63.89	68.20	-4.31	5.04	3	V	223	2.05	-
PK	5.8186G	118.90	Inf	-Inf	6.03	3	V	223	2.05	-
PK	5.9354G	60.97	68.20	-7.23	6.47	3	V	223	2.05	-

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

### 5825MHz\_TX



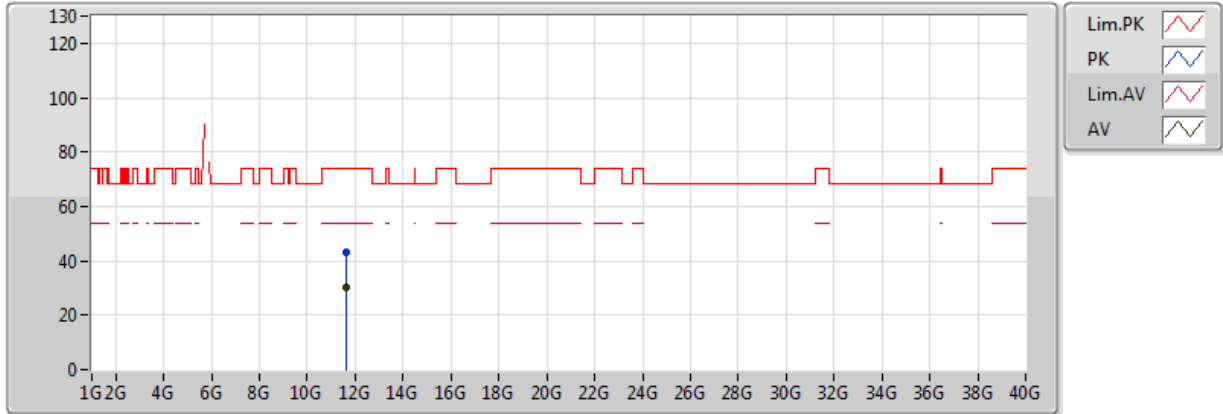
20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.65888G	30.37	54.00	-23.63	12.12	3	V	237	1.91	-
PK	11.66064G	43.32	74.00	-30.68	12.12	3	V	237	1.91	-



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

### 5825MHz\_TX

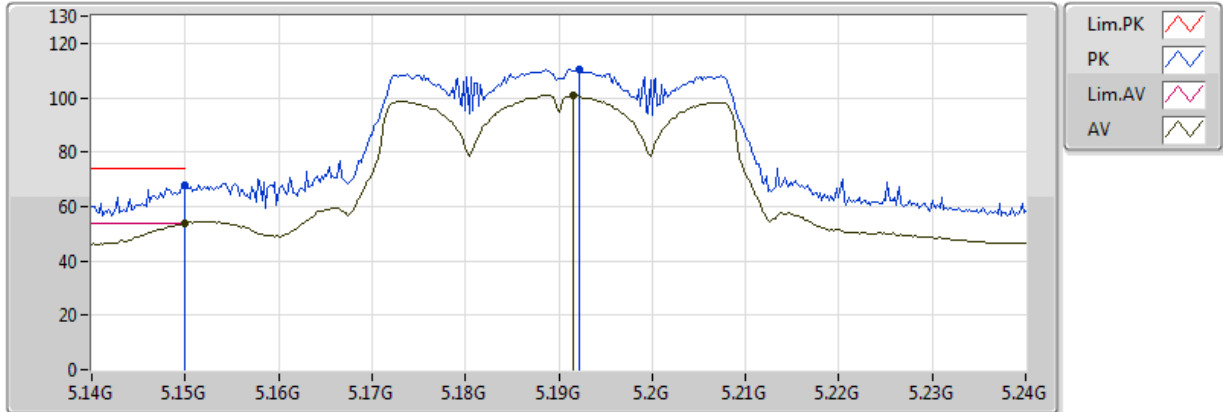


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.6336G	30.49	54.00	-23.51	12.11	3	H	183	2.05	-
PK	11.63096G	43.11	74.00	-30.89	12.11	3	H	183	2.05	-

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

### 5190MHz\_TX

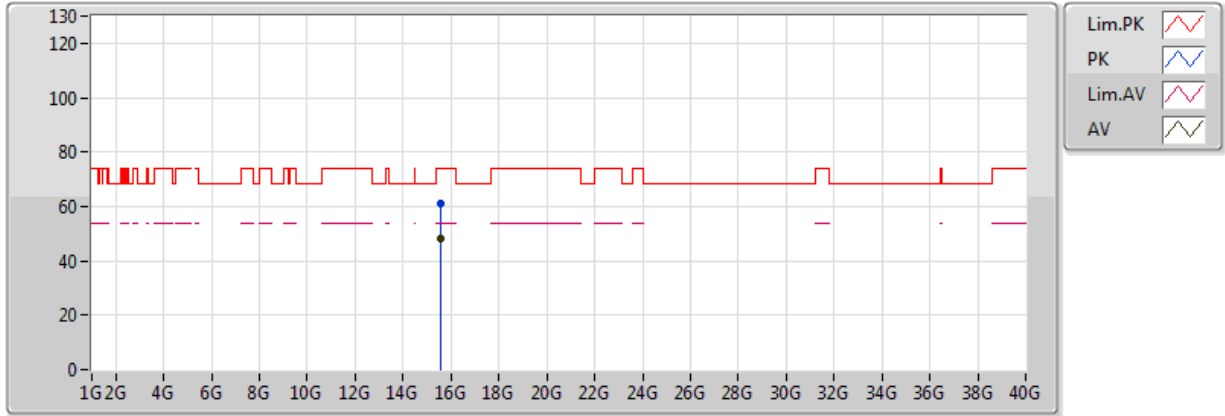


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 13  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	53.98	54.00	-0.02	4.27	3	V	213	1.52	-
AV	5.1916G	101.01	Inf	-Inf	4.36	3	V	213	1.52	-
PK	5.149995G	67.73	74.00	-6.27	4.27	3	V	213	1.52	-
PK	5.1922G	110.30	Inf	-Inf	4.36	3	V	213	1.52	-

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

### 5190MHz\_TX

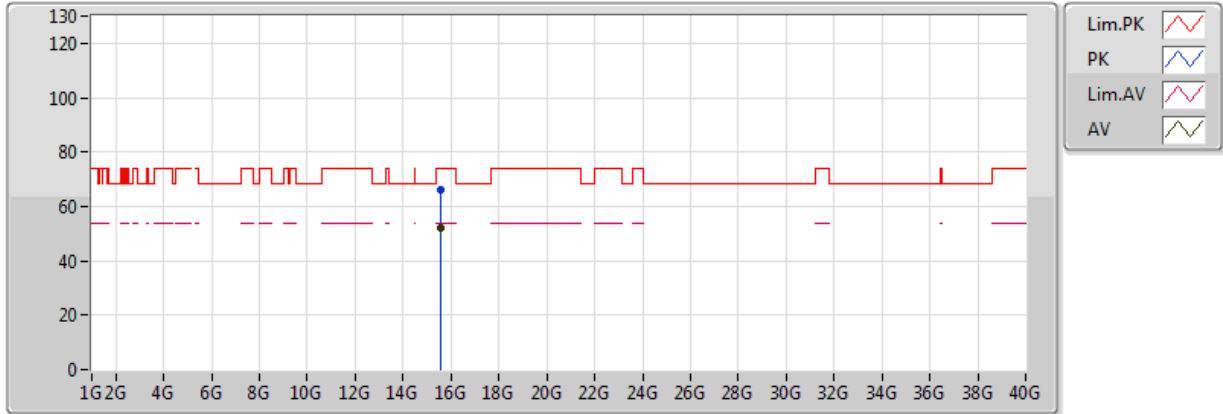


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 13  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.57208G	48.36	54.00	-5.64	13.76	3	V	352	1.70	-
PK	15.56904G	60.94	74.00	-13.06	13.76	3	V	352	1.70	-

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

### 5190MHz\_TX

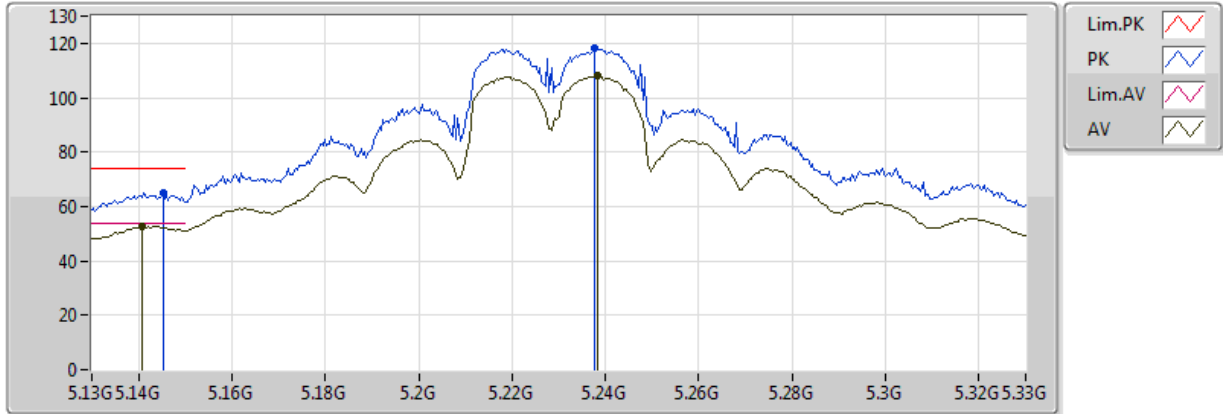


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 13  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.56744G	51.92	54.00	-2.08	13.77	3	H	232	1.76	-
PK	15.56616G	65.93	74.00	-8.07	13.77	3	H	232	1.76	-

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

### 5230MHz\_TX

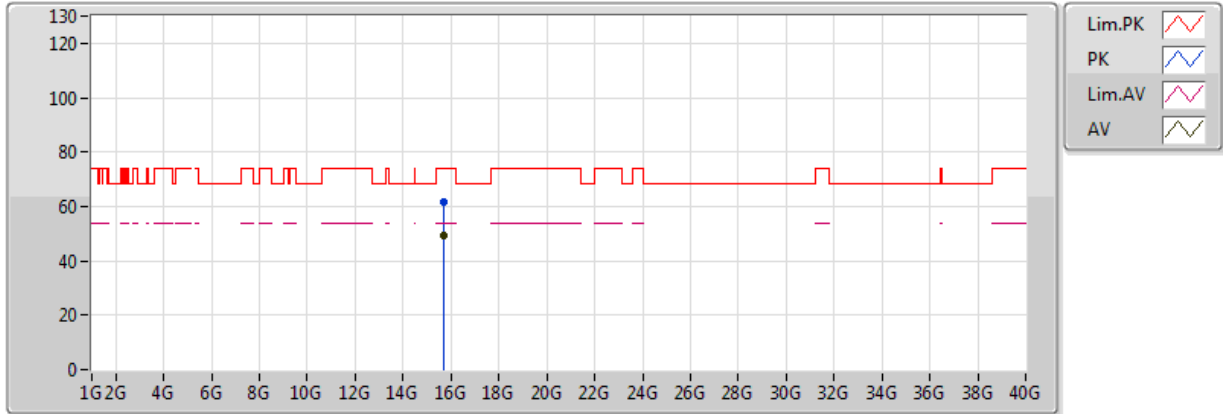


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 21  
 01-Z-1-10  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1408G	52.64	54.00	-1.36	4.25	3	V	123	1.50	-
AV	5.2384G	108.29	Inf	-Inf	4.46	3	V	123	1.50	-
PK	5.1452G	64.98	74.00	-9.02	4.26	3	V	123	1.50	-
PK	5.2376G	118.16	Inf	-Inf	4.46	3	V	123	1.50	-

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

### 5230MHz\_TX

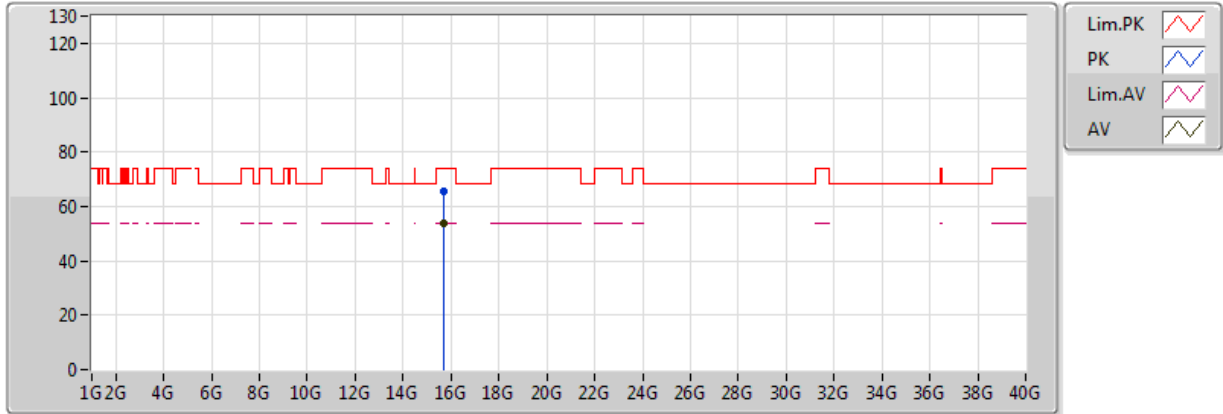


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 21  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.69928G	49.45	54.00	-4.55	13.60	3	V	124	1.77	-
PK	15.68072G	61.42	74.00	-12.58	13.63	3	V	124	1.77	-

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

### 5230MHz\_TX

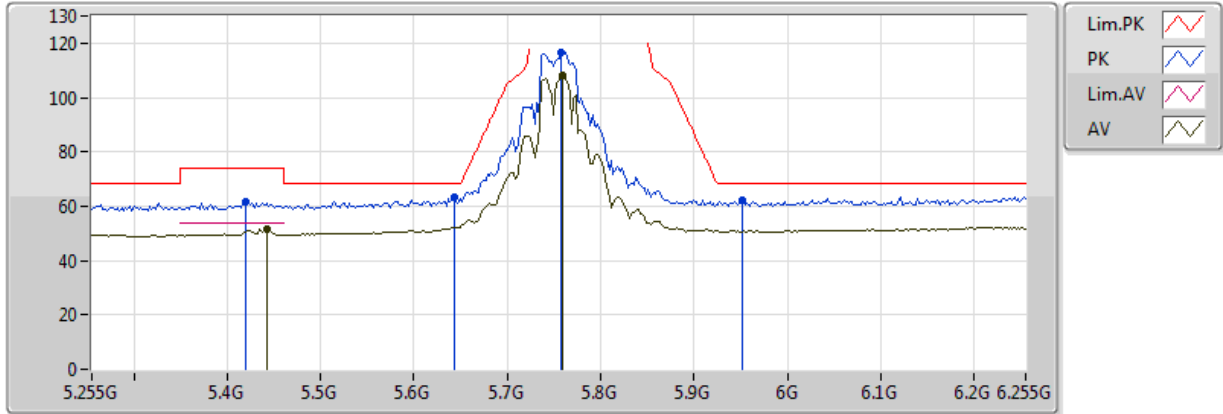


20170517  
 EUT Y 2TX ANT Dipole  
 Setting 21  
 01-Z-1  
 FSP(100080)  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.69016G	53.98	54.00	-0.02	13.61	3	H	230	1.78	-
PK	15.69096G	65.59	74.00	-8.41	13.61	3	H	230	1.78	-

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

### 5755MHz\_TX



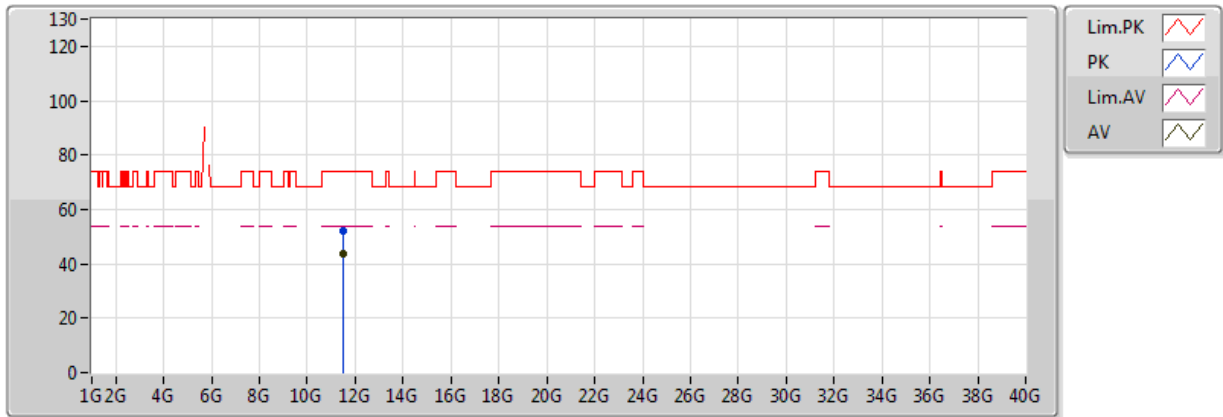
20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1-10  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.443G	51.39	54.00	-2.61	7.82	3	V	2	1.50	-
AV	5.759G	108.27	Inf	-Inf	8.42	3	V	2	1.50	-
PK	5.643G	63.04	68.20	-5.16	8.21	3	V	2	1.50	-
PK	5.757G	116.70	Inf	-Inf	8.42	3	V	2	1.50	-
PK	5.951G	62.10	68.20	-6.10	8.89	3	V	2	1.50	-
PK	5.419G	61.41	74.00	-12.59	7.78	3	V	2	1.50	-



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

### 5755MHz\_TX

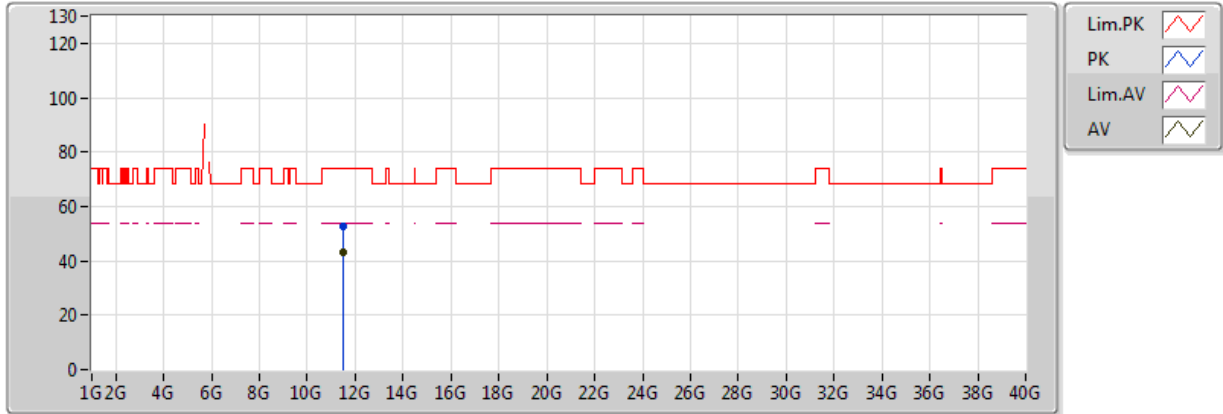


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.51088G	43.72	54.00	-10.28	17.97	3	V	166	1.17	-
PK	11.51382G	52.19	74.00	-21.81	17.97	3	V	166	1.17	-

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

### 5755MHz\_TX

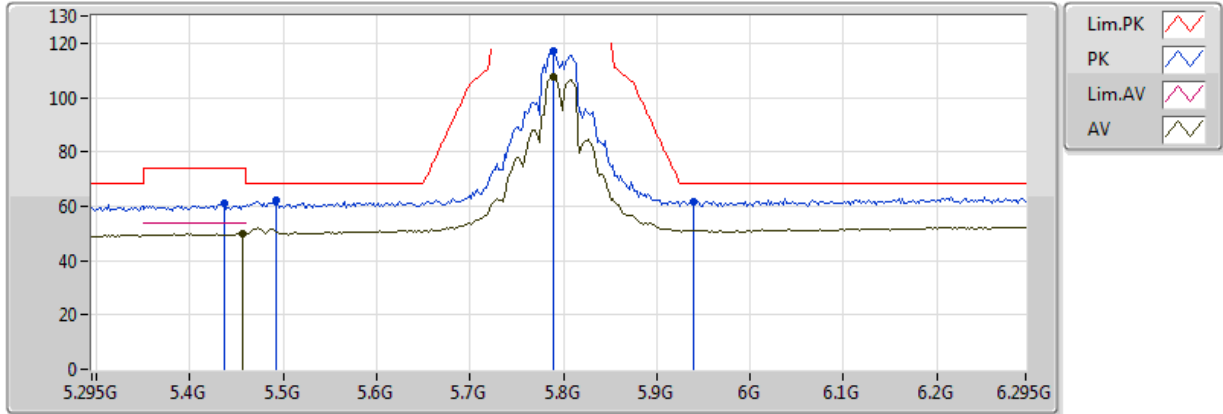


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.51272G	43.28	54.00	-10.72	18.72	3	H	294	2.29	-
PK	11.50852G	52.54	74.00	-21.46	18.72	3	H	294	2.29	-

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

### 5795MHz\_TX

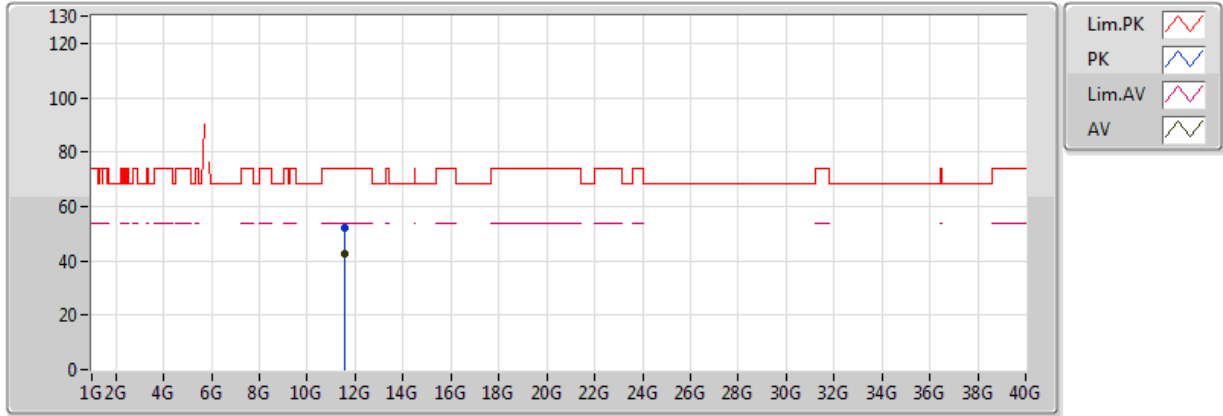


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1-10  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.457G	49.93	54.00	-4.07	7.84	3	V	0	1.50	-
AV	5.789G	107.80	Inf	-Inf	8.48	3	V	0	1.50	-
PK	5.493G	61.93	68.20	-6.27	7.90	3	V	0	1.50	-
PK	5.789G	117.09	Inf	-Inf	8.48	3	V	0	1.50	-
PK	5.939G	61.77	68.20	-6.43	8.86	3	V	0	1.50	-
PK	5.437G	61.10	74.00	-12.90	7.81	3	V	0	1.50	-

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

### 5795MHz\_TX

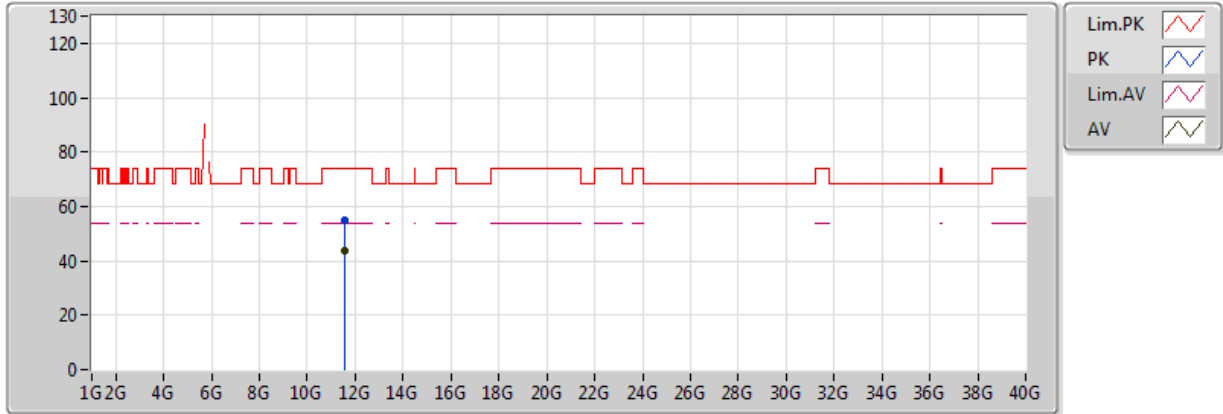


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.58894G	42.69	54.00	-11.31	17.88	3	V	128	2.46	-
PK	11.59118G	52.14	74.00	-21.86	17.88	3	V	128	2.46	-

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

### 5795MHz\_TX

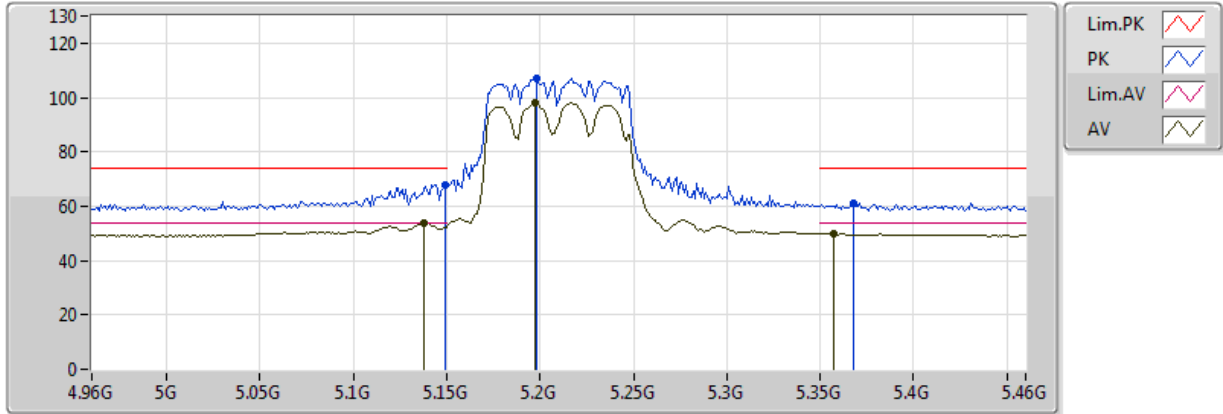


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.58882G	43.52	54.00	-10.48	18.66	3	H	258	1.95	-
PK	11.58924G	54.89	74.00	-19.11	18.66	3	H	258	1.95	-

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

### 5210MHz\_TX

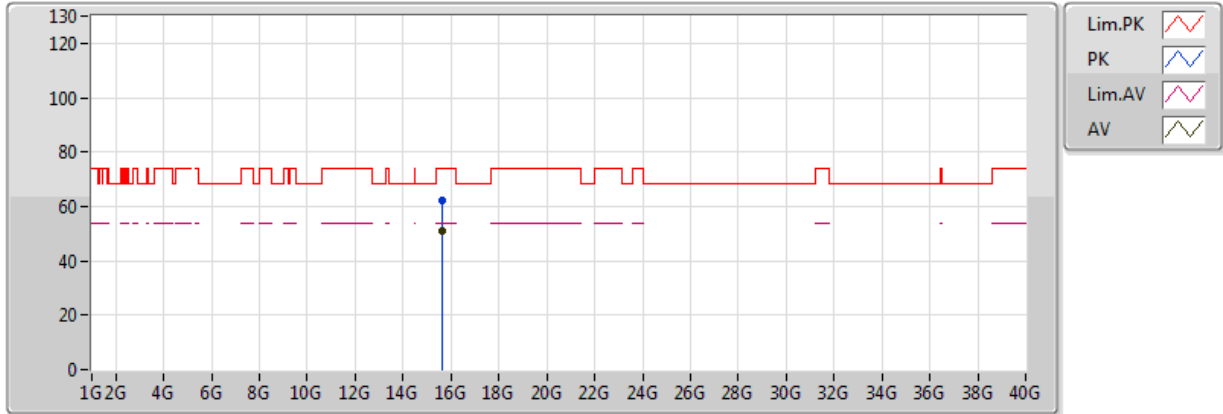


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 12.5  
 05-M-1-10  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.138G	53.98	54.00	-0.02	7.31	3	V	346	1.49	-
AV	5.197G	98.03	Inf	-Inf	7.41	3	V	346	1.49	-
AV	5.357G	50.05	54.00	-3.95	7.68	3	V	346	1.49	-
PK	5.149G	68.05	74.00	-5.95	7.33	3	V	346	1.49	-
PK	5.198G	107.04	Inf	-Inf	7.42	3	V	346	1.49	-
PK	5.368G	61.17	74.00	-12.83	7.70	3	V	346	1.49	-

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

### 5210MHz\_TX

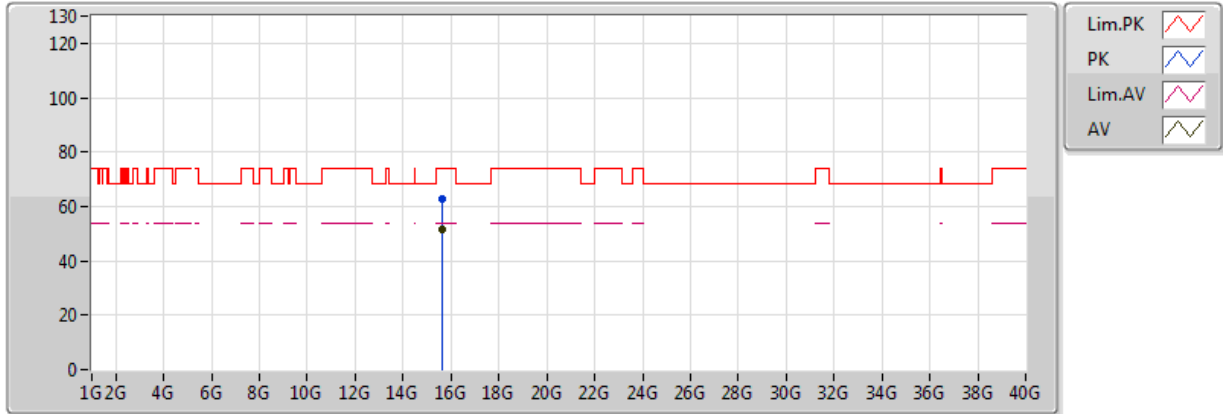


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 12.5  
 05-M-1  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.6266G	50.82	54.00	-3.18	19.28	3	V	280	1.71	-
PK	15.63356G	62.42	74.00	-11.58	19.26	3	V	280	1.71	-

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

### 5210MHz\_TX



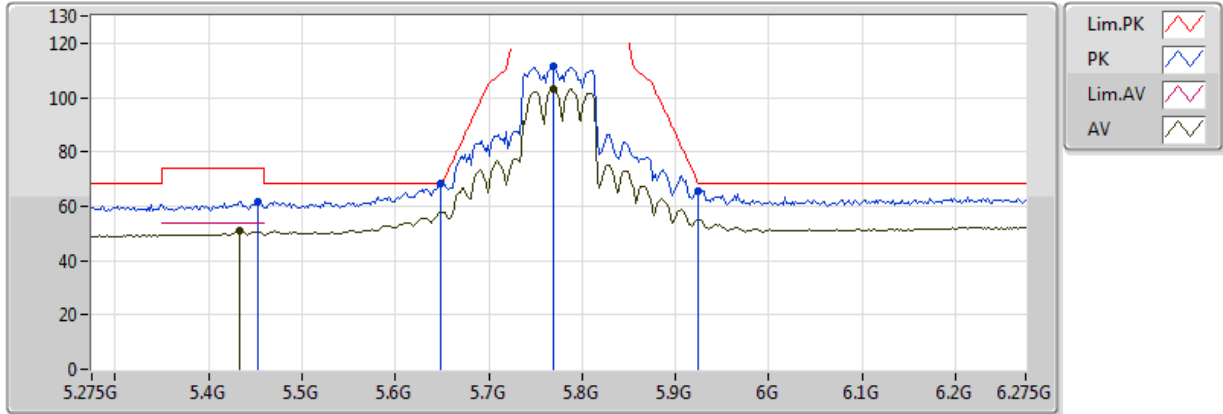
20170518  
 EUT Y 2TX ANT Dipole  
 Setting 12.5  
 05-M-1  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.62642G	51.47	54.00	-2.53	19.80	3	H	88	1.23	-
PK	15.62802G	62.64	74.00	-11.36	19.80	3	H	88	1.23	-



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

### 5775MHz\_TX

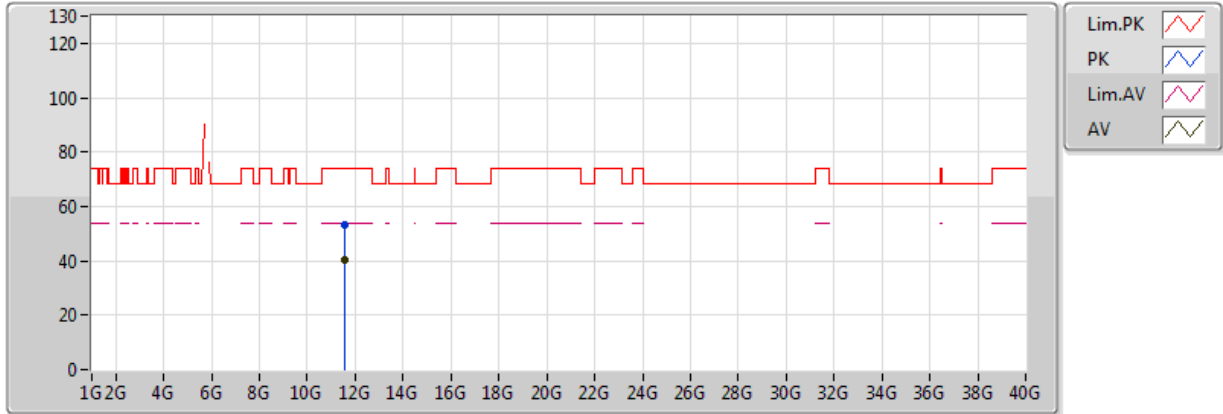


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 20  
 05-M-1-10  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.433G	50.89	54.00	-3.11	7.80	3	V	360	1.49	-
AV	5.769G	103.23	Inf	-Inf	8.44	3	V	360	1.49	-
PK	5.649G	68.15	68.20	-0.05	8.22	3	V	360	1.49	-
PK	5.769G	111.27	Inf	-Inf	8.44	3	V	360	1.49	-
PK	5.925G	65.78	68.20	-2.42	8.82	3	V	360	1.49	-
PK	5.453G	61.49	74.00	-12.51	7.83	3	V	360	1.49	-

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

### 5775MHz\_TX

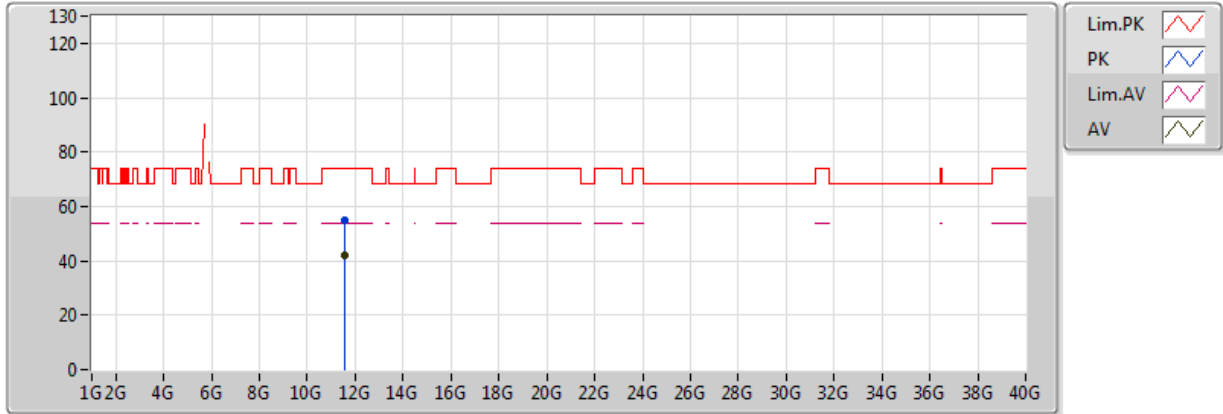


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 20  
 05-M-1-10  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.55222G	40.29	54.00	-13.71	17.92	3	V	9	2.22	-
PK	11.5461G	53.48	74.00	-20.52	17.93	3	V	9	2.22	-

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

### 5775MHz\_TX

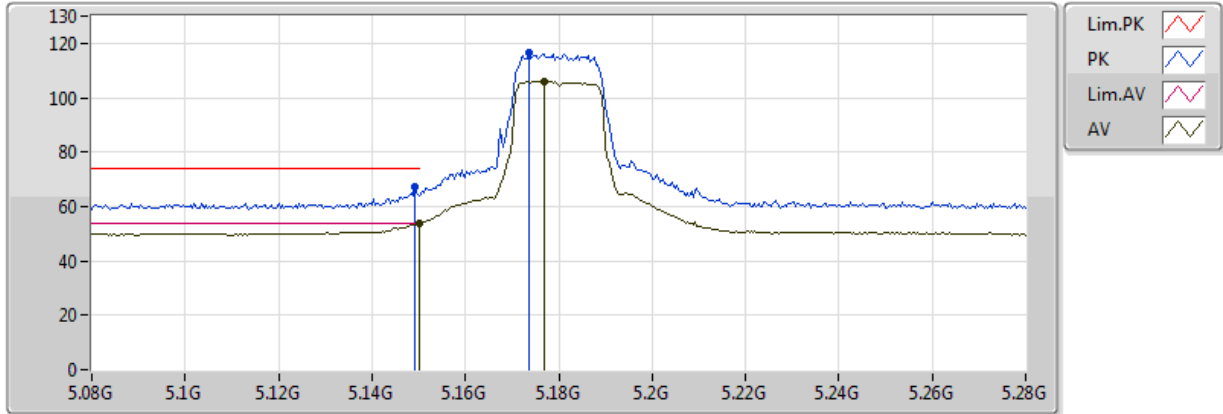


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 20  
 05-M-1-10  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.54788G	42.11	54.00	-11.89	18.69	3	H	291	2.45	-
PK	11.55414G	54.69	74.00	-19.31	18.69	3	H	291	2.45	-

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

### 5180MHz\_TX

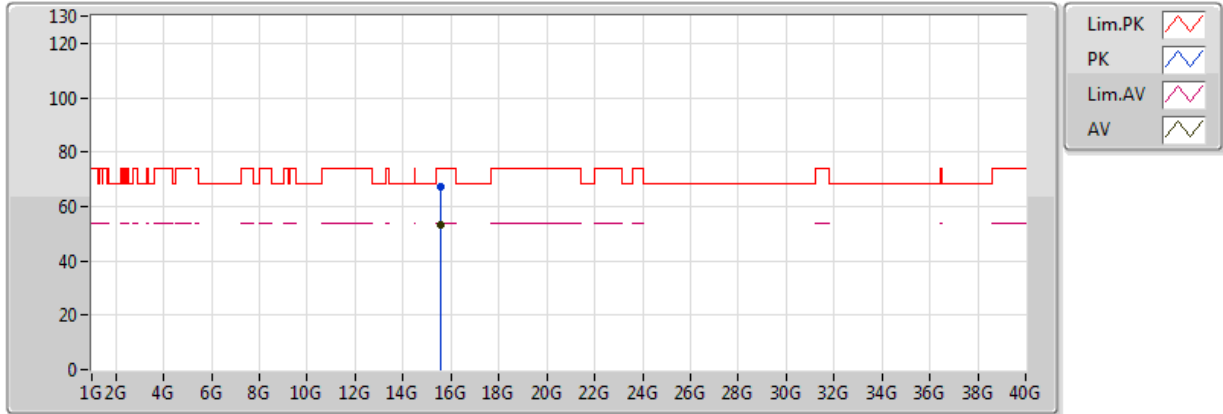


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 18  
 05-M-1-10  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	53.72	54.00	-0.28	7.33	3	V	212	1.47	-
AV	5.1768G	105.97	Inf	-Inf	7.38	3	V	212	1.47	-
PK	5.1492G	67.10	74.00	-6.90	7.33	3	V	212	1.47	-
PK	5.1736G	116.37	Inf	-Inf	7.38	3	V	212	1.47	-

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

### 5180MHz\_TX

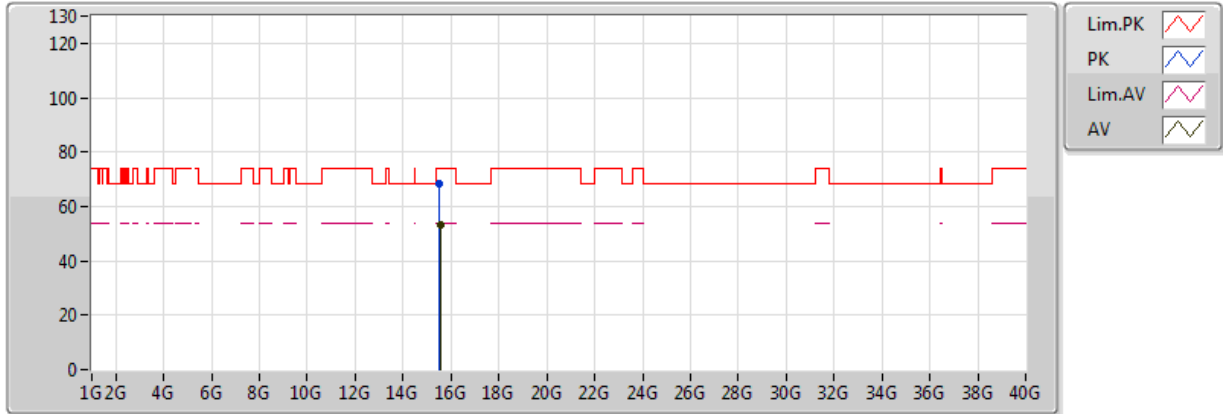


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 18  
 05-M-1  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.54322G	53.46	54.00	-0.54	19.52	3	V	103	1.57	-
PK	15.5403G	67.49	74.00	-6.51	19.53	3	V	103	1.57	-

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

### 5180MHz\_TX

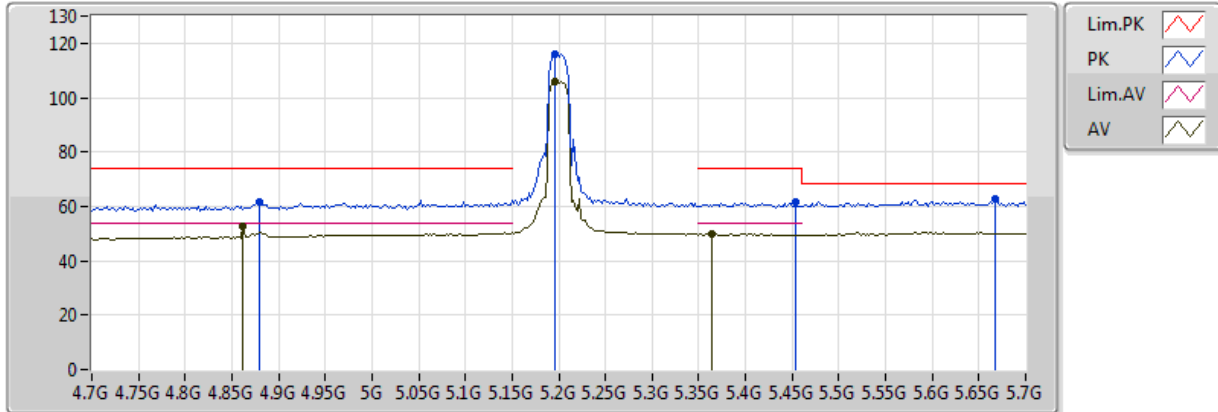


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 18  
 05-M-1  
 FSV  
 Non-TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.54462G	53.42	54.00	-0.58	20.05	3	H	325	1.76	-
PK	15.53554G	68.55	74.00	-5.45	20.08	3	H	325	1.76	-

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

### 5200MHz\_TX

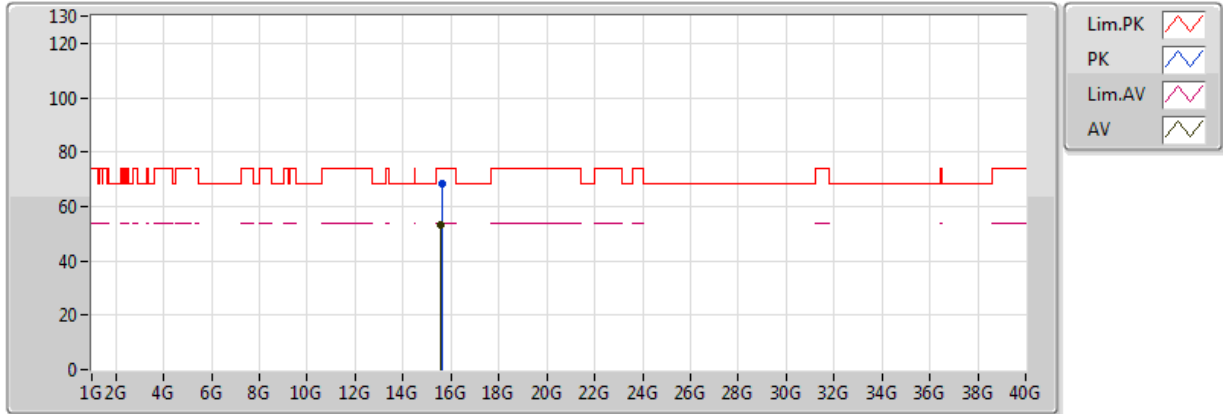


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 19  
 05-M-1-10  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.196G	105.81	Inf	-Inf	7.41	3	V	0	1.50	-
AV	5.364G	49.78	54.00	-4.22	7.69	3	V	0	1.50	-
PK	5.196G	116.06	Inf	-Inf	7.41	3	V	0	1.50	-
PK	5.668G	62.67	68.20	-5.53	8.25	3	V	0	1.50	-
AV	4.862G	52.82	54.00	-1.18	6.70	3	V	0	1.50	-
PK	4.88G	61.72	74.00	-12.28	6.75	3	V	0	1.50	-
PK	5.454G	61.66	74.00	-12.34	7.84	3	V	0	1.50	-

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

### 5200MHz\_TX



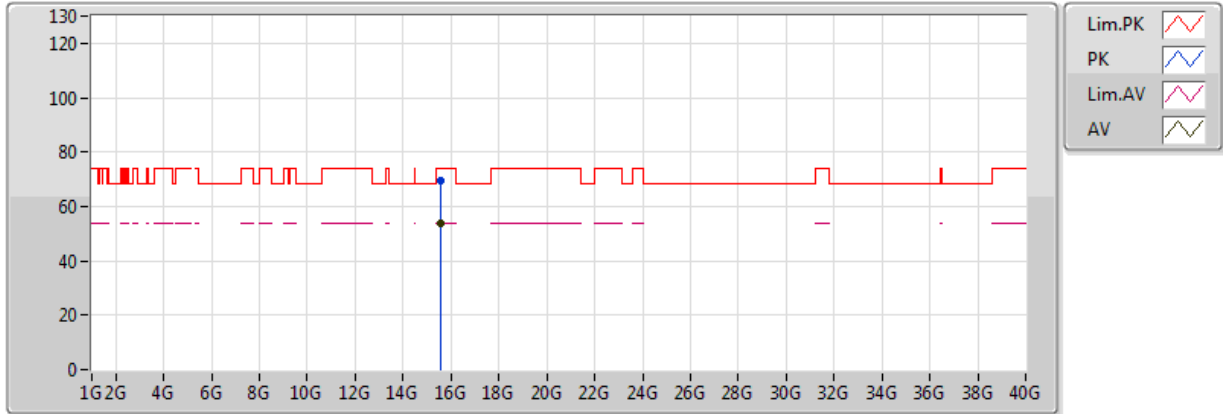
20170518  
 EUT Y 2TX ANT Dipole  
 Setting 19  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.59556G	53.21	54.00	-0.79	19.37	3	V	92	2.22	-
PK	15.60356G	68.19	74.00	-5.81	19.35	3	V	92	2.22	-



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

### 5200MHz\_TX

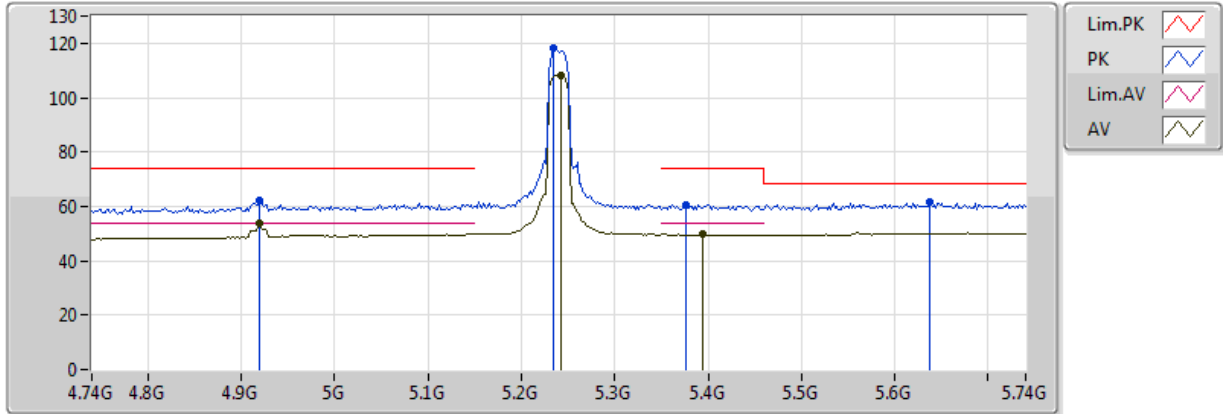


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 19  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.5976G	53.72	54.00	-0.28	19.89	3	H	65	1.67	-
PK	15.59508G	69.62	74.00	-4.38	19.90	3	H	65	1.67	-

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

### 5240MHz\_TX

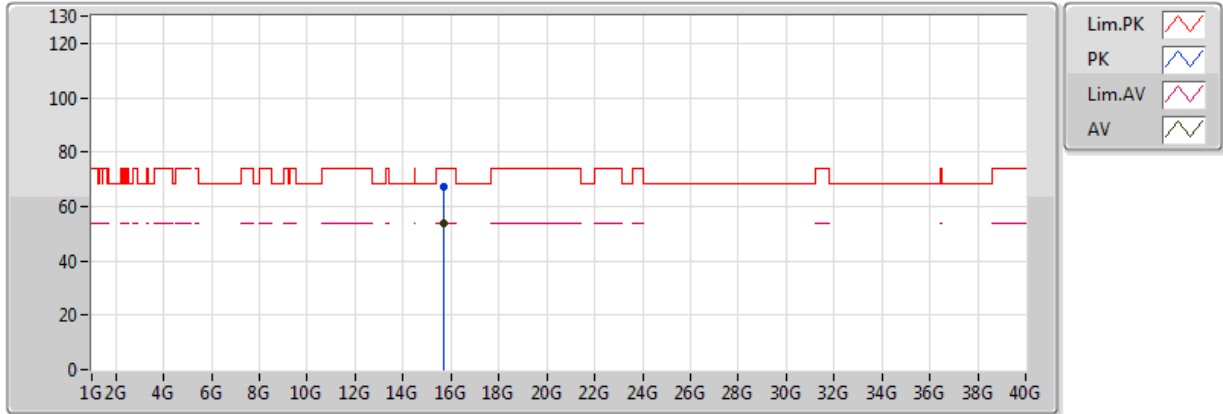


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 20  
 05-M-1-10  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.242G	108.21	Inf	-Inf	7.49	3	V	215	1.63	-
AV	5.394G	49.83	54.00	-4.17	7.74	3	V	215	1.63	-
PK	5.234G	118.30	Inf	-Inf	7.48	3	V	215	1.63	-
PK	5.638G	61.46	68.20	-6.74	8.20	3	V	215	1.63	-
PK	4.92G	61.96	74.00	-12.04	6.85	3	V	215	1.63	-
AV	4.92G	53.59	54.00	-0.41	6.85	3	V	215	1.63	-
PK	5.376G	60.61	74.00	-13.39	7.71	3	V	215	1.63	-

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

### 5240MHz\_TX

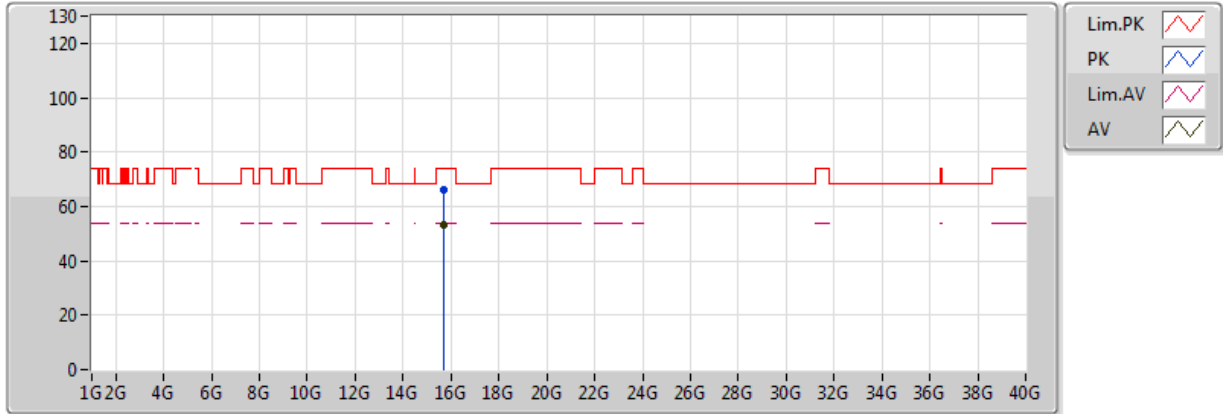


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 20  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.72086G	53.57	54.00	-0.43	19.02	3	V	315	2.14	-
PK	15.7216G	67.11	74.00	-6.89	19.02	3	V	315	2.14	-

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

### 5240MHz\_TX

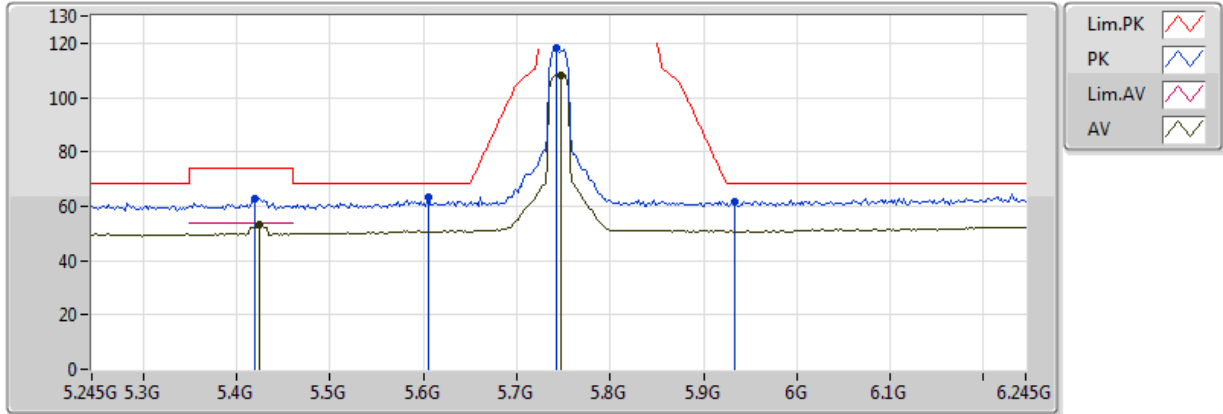


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 20  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71508G	53.50	54.00	-0.50	19.53	3	H	157	2.36	-
PK	15.71682G	66.39	74.00	-7.61	19.53	3	H	157	2.36	-

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

### 5745MHz\_TX

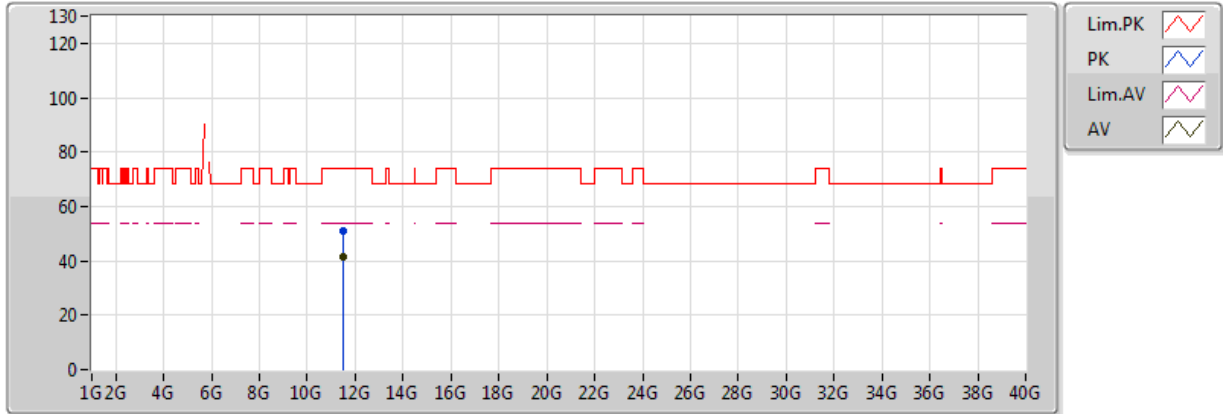


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1-10  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.747G	108.42	Inf	-Inf	8.40	3	V	222	1.57	-
PK	5.605G	63.19	68.20	-5.01	8.14	3	V	222	1.57	-
PK	5.743G	117.99	Inf	-Inf	8.39	3	V	222	1.57	-
PK	5.933G	61.63	68.20	-6.57	8.84	3	V	222	1.57	-
PK	5.419G	62.83	74.00	-11.17	7.78	3	V	222	1.57	-
AV	5.425G	53.38	54.00	-0.62	7.79	3	V	222	1.57	-

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

### 5745MHz\_TX

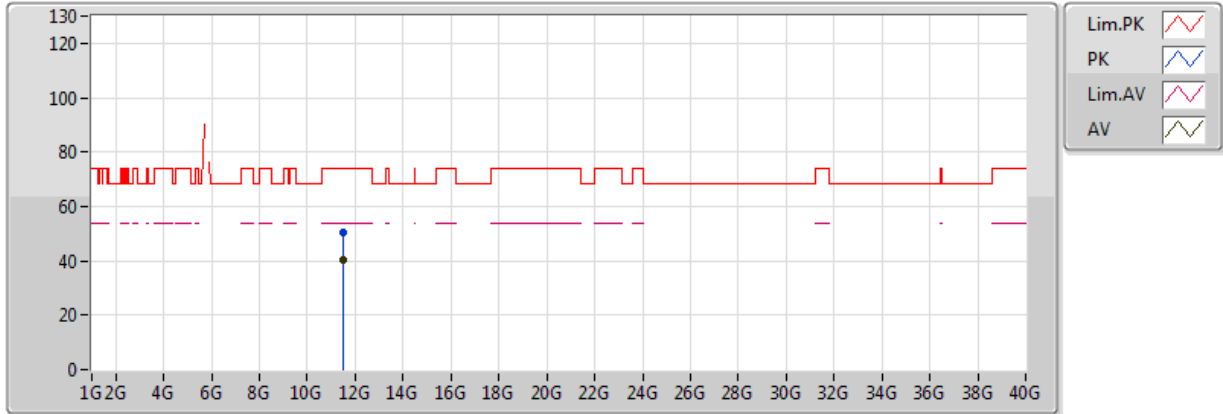


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.4889G	41.47	54.00	-12.53	18.00	3	V	114	1.01	-
PK	11.49462G	51.09	74.00	-22.91	17.99	3	V	114	1.01	-

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

### 5745MHz\_TX

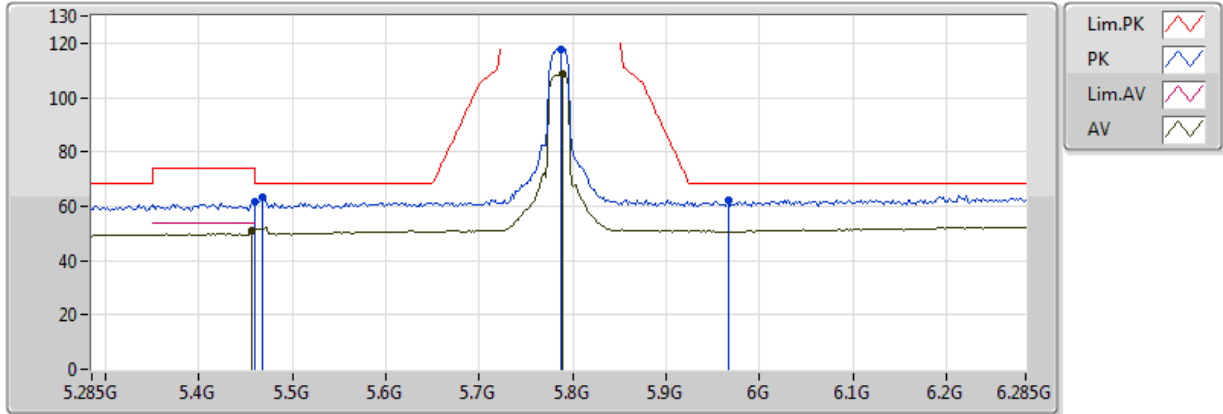


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.49298G	40.26	54.00	-13.74	18.74	3	H	353	2.18	-
PK	11.48558G	50.45	74.00	-23.55	18.74	3	H	353	2.18	-

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

### 5785MHz\_TX



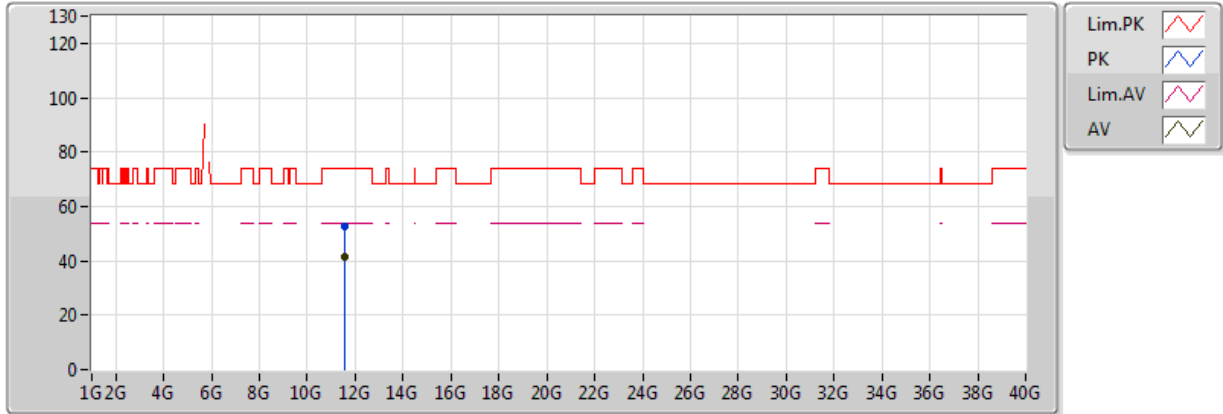
20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1-10  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.457G	51.15	54.00	-2.85	7.84	3	V	354	1.50	-
AV	5.789G	108.50	Inf	-Inf	8.48	3	V	354	1.50	-
PK	5.467G	63.54	68.20	-4.66	7.86	3	V	354	1.50	-
PK	5.787G	117.87	Inf	-Inf	8.48	3	V	354	1.50	-
PK	5.967G	62.10	68.20	-6.10	8.93	3	V	354	1.50	-
PK	5.459G	61.86	74.00	-12.14	7.84	3	V	354	1.50	-



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

### 5785MHz\_TX

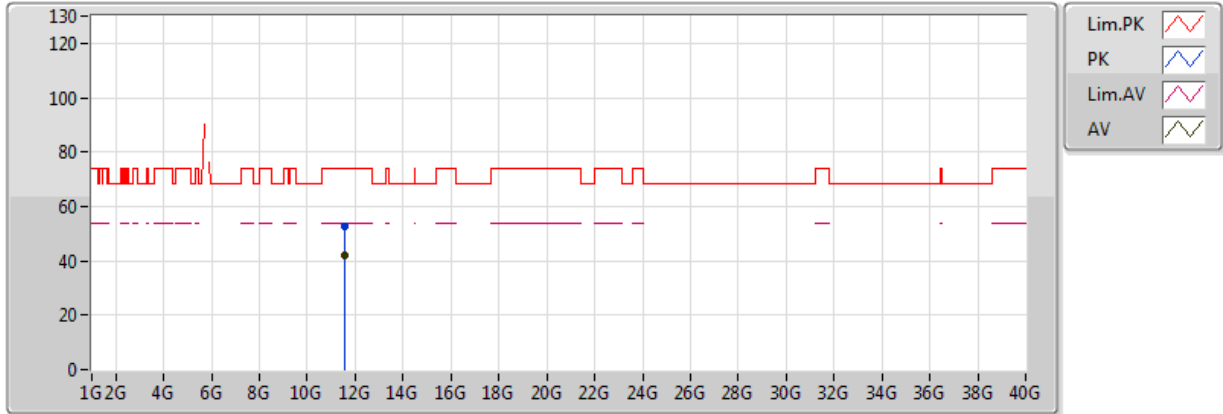


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57422G	41.46	54.00	-12.54	17.90	3	V	165	2.13	-
PK	11.57418G	52.42	74.00	-21.58	17.90	3	V	165	2.13	-

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

### 5785MHz\_TX

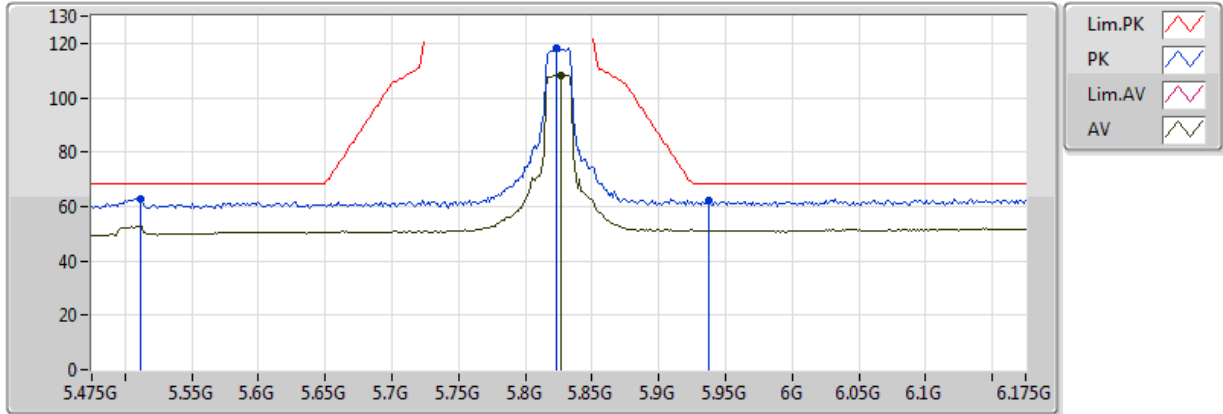


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57432G	42.24	54.00	-11.76	18.67	3	H	241	2.32	-
PK	11.57228G	52.87	74.00	-21.13	18.67	3	H	241	2.32	-

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

### 5825MHz\_TX

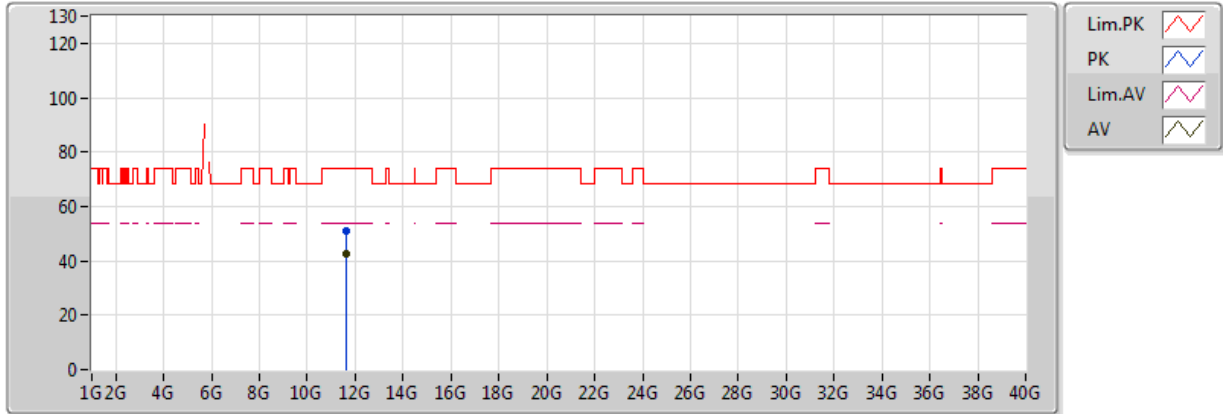


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1-10  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.8264G	108.41	Inf	-Inf	8.57	3	V	222	2.20	-
PK	5.5114G	62.83	68.20	-5.37	7.94	3	V	222	2.20	-
PK	5.8236G	118.23	Inf	-Inf	8.56	3	V	222	2.20	-
PK	5.937G	61.97	68.20	-6.23	8.85	3	V	222	2.20	-

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

### 5825MHz\_TX

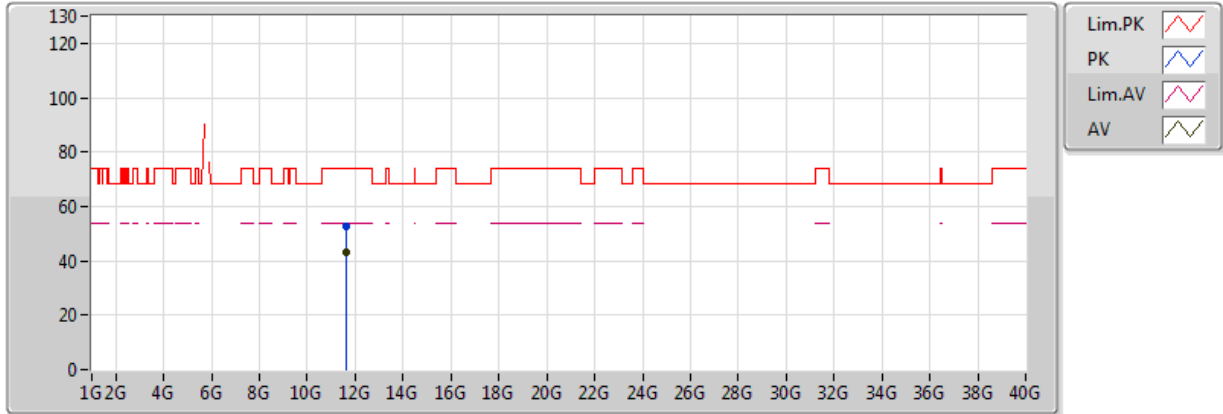


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.6451G	42.50	54.00	-11.50	17.82	3	V	205	1.58	-
PK	11.65112G	51.26	74.00	-22.74	17.81	3	V	205	1.58	-

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

### 5825MHz\_TX

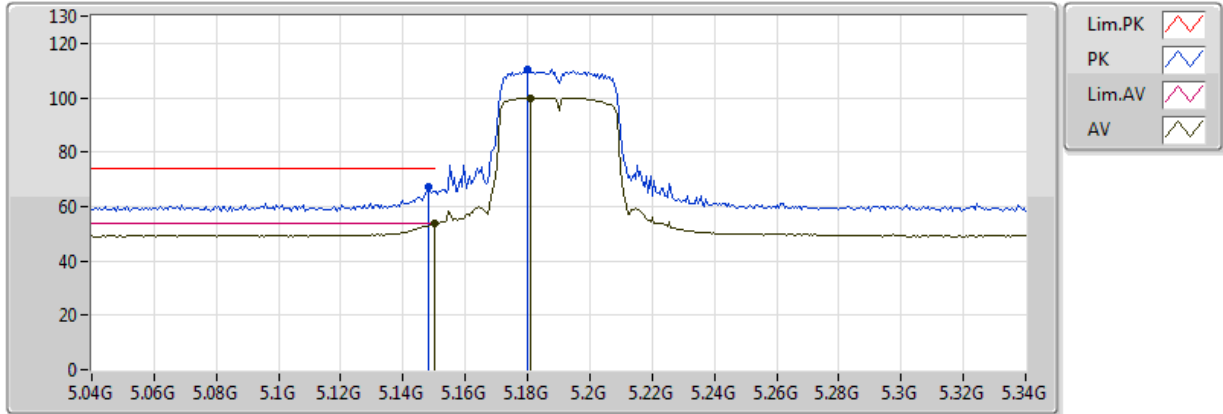


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.64516G	43.30	54.00	-10.70	18.61	3	H	203	2.14	-
PK	11.65188G	52.85	74.00	-21.15	18.61	3	H	203	2.14	-

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

### 5190MHz\_TX

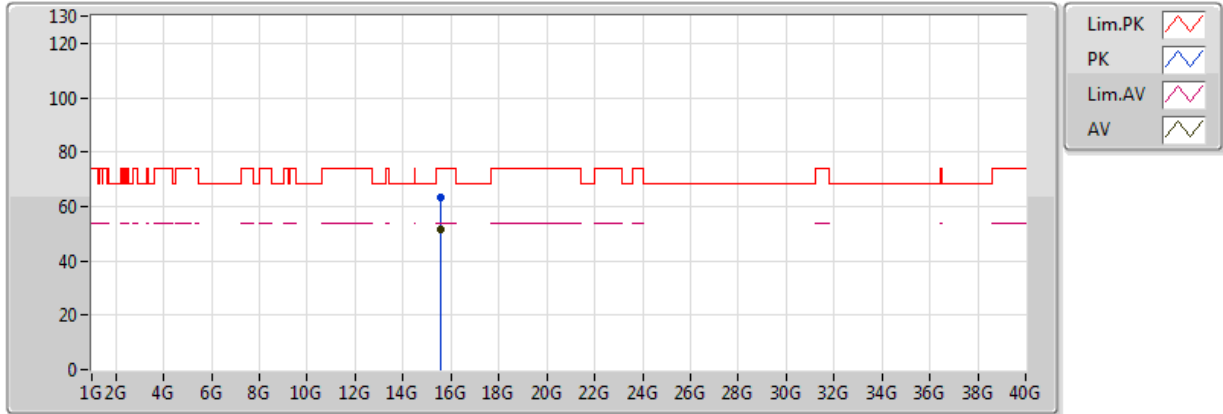


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 13  
 05-M-1-10  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	53.61	54.00	-0.39	7.33	3	V	211	1.50	-
AV	5.181G	99.94	Inf	-Inf	7.39	3	V	211	1.50	-
PK	5.148G	67.33	74.00	-6.67	7.33	3	V	211	1.50	-
PK	5.1798G	110.18	Inf	-Inf	7.39	3	V	211	1.50	-

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

### 5190MHz\_TX

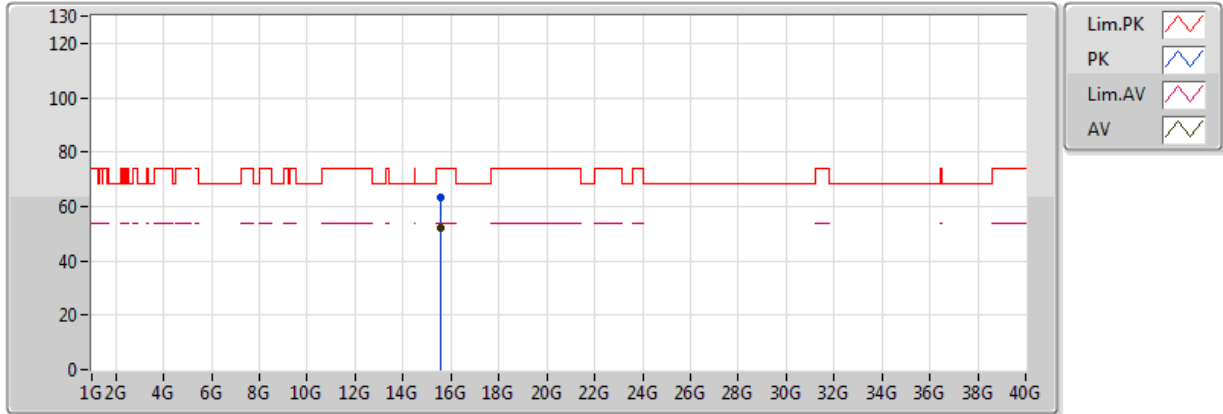


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 13  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.5719G	51.36	54.00	-2.64	19.44	3	V	201	1.36	-
PK	15.5724G	63.29	74.00	-10.71	19.44	3	V	201	1.36	-

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

### 5190MHz\_TX



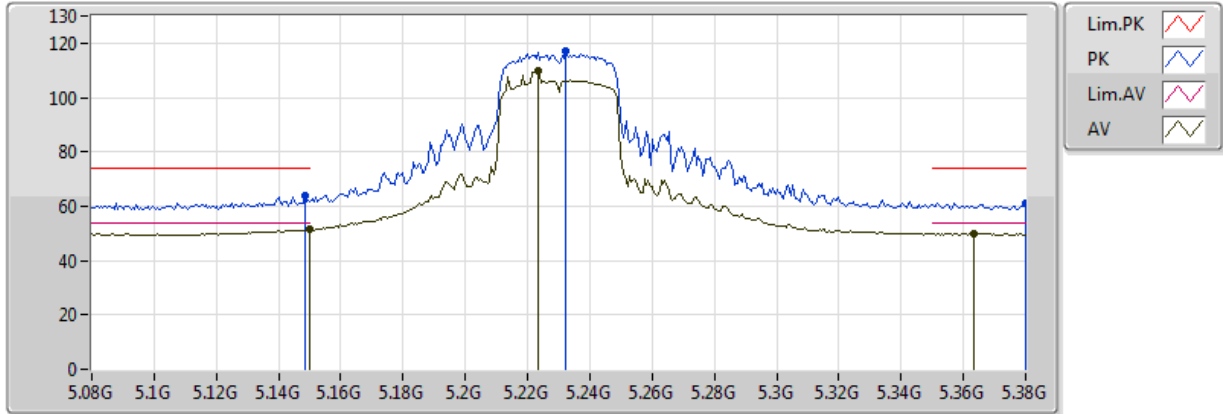
20170518  
 EUT Y 2TX ANT Dipole  
 Setting 13  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.56512G	51.89	54.00	-2.11	19.99	3	H	205	1.01	-
PK	15.56598G	63.35	74.00	-10.65	19.99	3	H	205	1.01	-



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

### 5230MHz\_TX

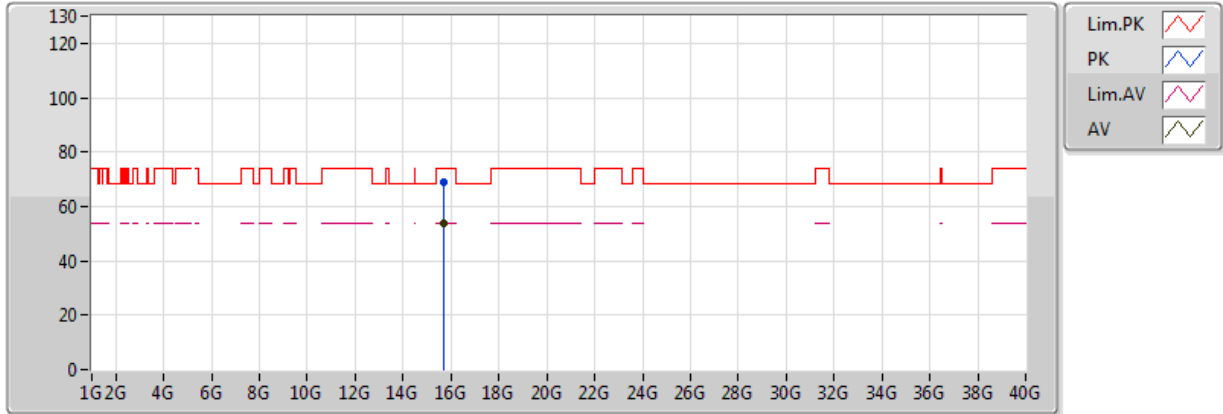


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 21  
 05-M-1-10  
 FSV

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	51.33	54.00	-2.67	7.33	3	V	314	1.50	-
AV	5.2234G	109.55	Inf	-Inf	7.46	3	V	314	1.50	-
AV	5.3632G	49.93	54.00	-4.07	7.69	3	V	314	1.50	-
PK	5.1484G	63.97	74.00	-10.03	7.33	3	V	314	1.50	-
PK	5.2324G	117.14	Inf	-Inf	7.48	3	V	314	1.50	-
PK	5.38G	61.09	74.00	-12.91	7.72	3	V	314	1.50	-

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

### 5230MHz\_TX

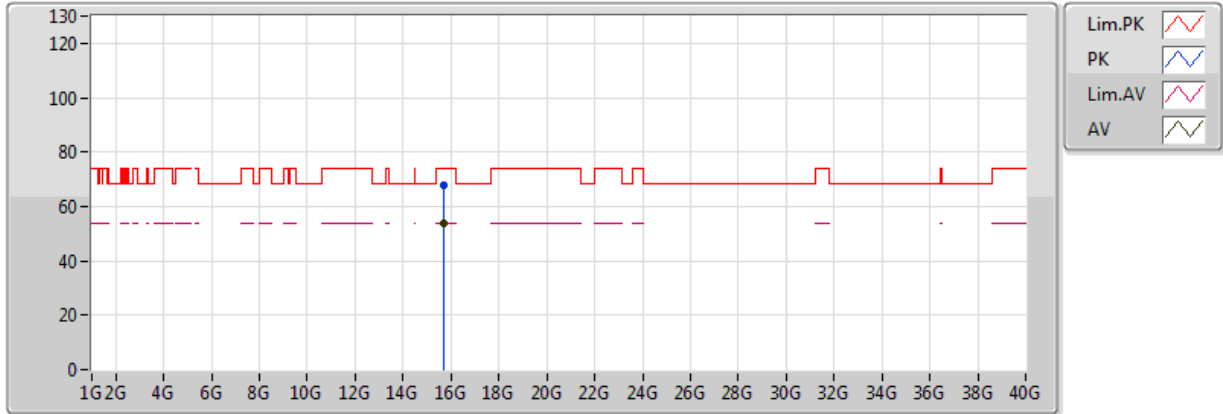


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 21  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.691G	53.83	54.00	-0.17	19.10	3	V	188	1.72	-
PK	15.69012G	68.87	74.00	-5.13	19.10	3	V	188	1.72	-

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

### 5230MHz\_TX

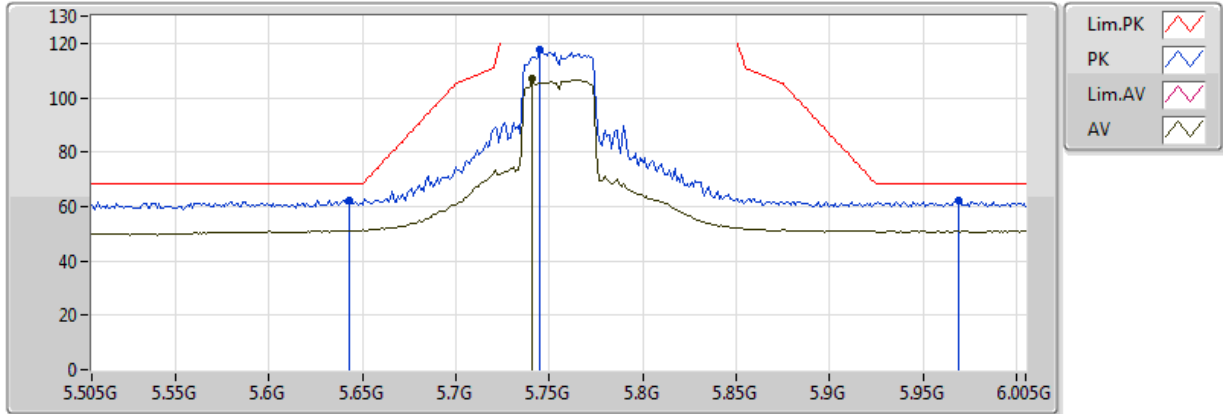


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 21  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.68774G	53.55	54.00	-0.45	19.62	3	H	50	1.31	-
PK	15.69242G	68.00	74.00	-6.00	19.60	3	H	50	1.31	-

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

### 5755MHz\_TX

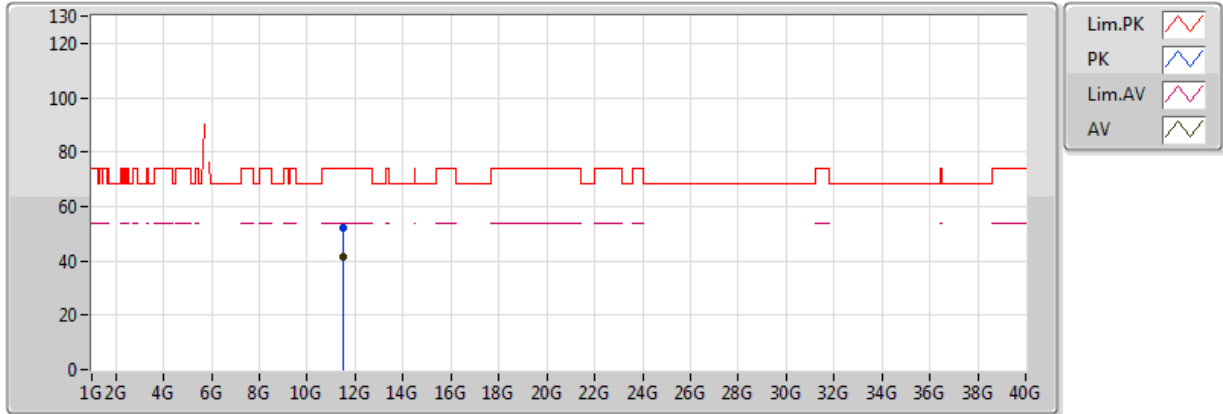


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1-10  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.741G	107.11	Inf	-Inf	8.39	3	V	313	2.08	-
PK	5.643G	62.44	68.20	-5.76	8.21	3	V	313	2.08	-
PK	5.745G	117.43	Inf	-Inf	8.40	3	V	313	2.08	-
PK	5.969G	62.16	68.20	-6.04	8.93	3	V	313	2.08	-

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

### 5755MHz\_TX

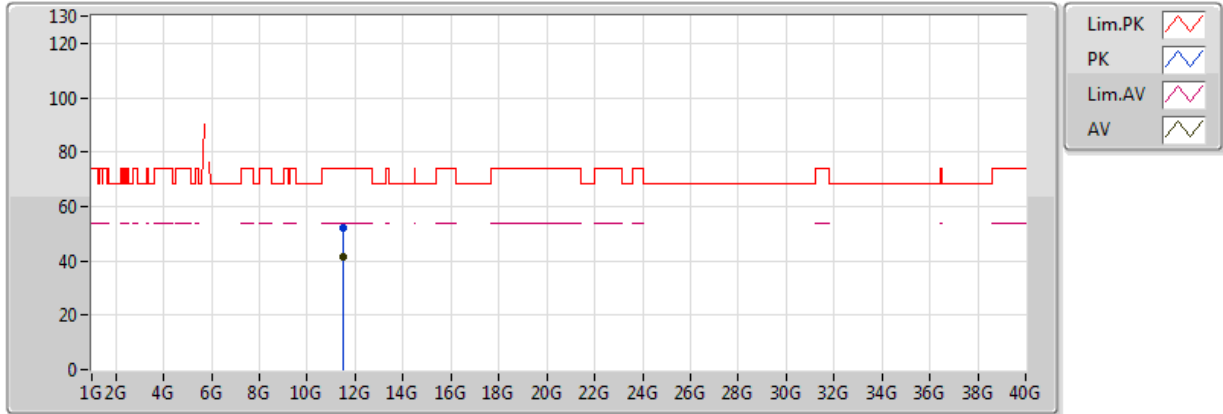


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.51418G	41.58	54.00	-12.42	17.97	3	V	215	1.11	-
PK	11.50984G	52.36	74.00	-21.64	17.97	3	V	215	1.11	-

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

### 5755MHz\_TX

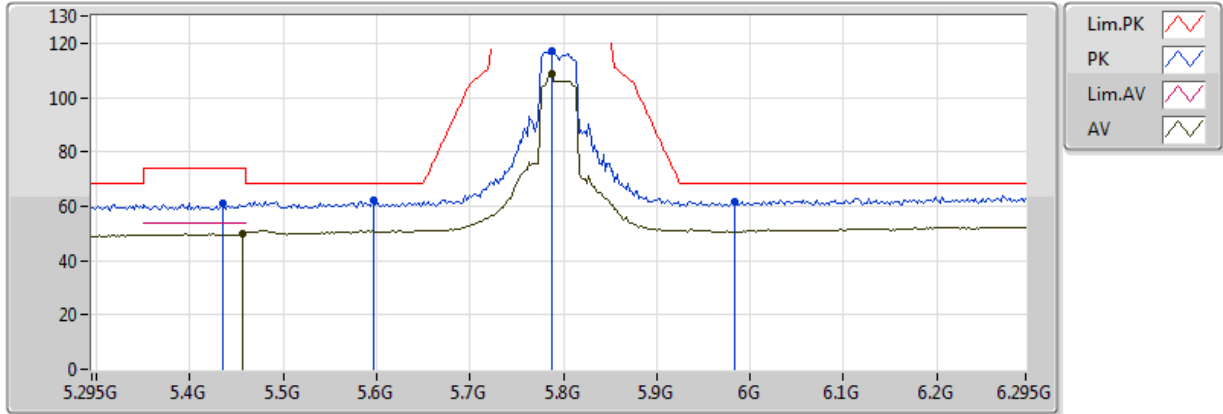


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.51306G	41.28	54.00	-12.72	18.72	3	H	239	1.65	-
PK	11.5067G	52.14	74.00	-21.86	18.72	3	H	239	1.65	-

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

### 5795MHz\_TX

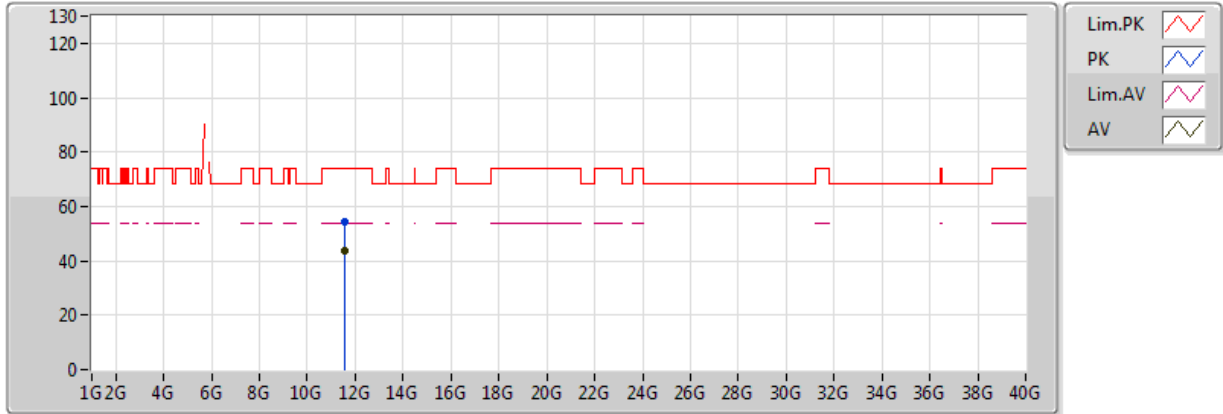


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1-10  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.457G	50.09	54.00	-3.91	7.84	3	V	354	1.69	-
AV	5.787G	108.76	Inf	-Inf	8.48	3	V	354	1.69	-
PK	5.597G	61.99	68.20	-6.21	8.12	3	V	354	1.69	-
PK	5.787G	116.97	Inf	-Inf	8.48	3	V	354	1.69	-
PK	5.983G	61.59	68.20	-6.61	8.97	3	V	354	1.69	-
PK	5.435G	61.33	74.00	-12.67	7.81	3	V	354	1.69	-

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

### 5795MHz\_TX



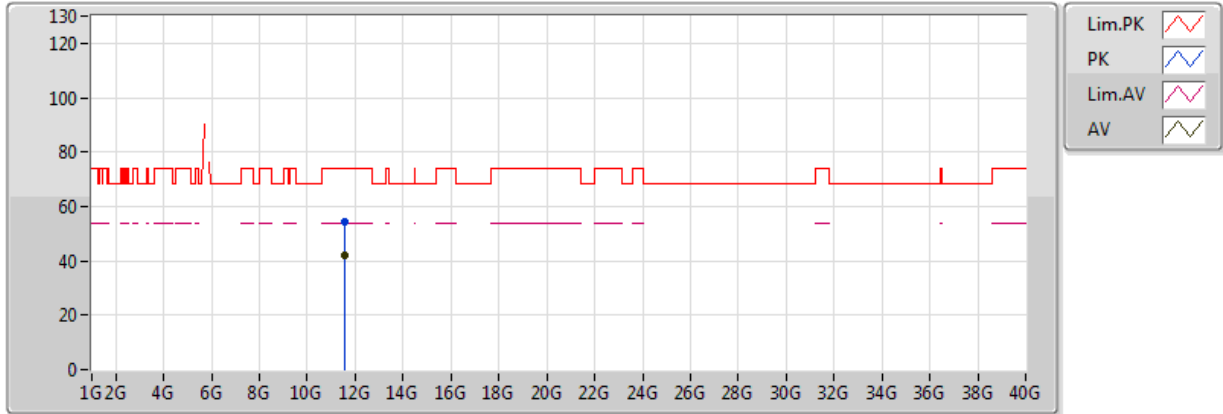
20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.58912G	43.64	54.00	-10.36	17.88	3	V	15	1.32	-
PK	11.58886G	54.31	74.00	-19.69	17.88	3	V	15	1.32	-



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

### 5795MHz\_TX

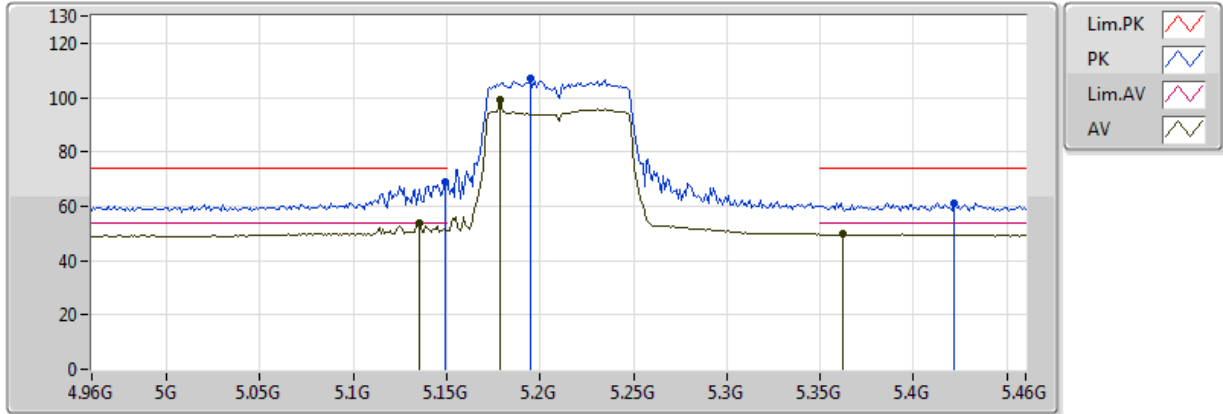


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 26  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.59092G	42.25	54.00	-11.75	18.66	3	H	45	1.91	-
PK	11.59064G	54.41	74.00	-19.59	18.66	3	H	45	1.91	-

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

### 5210MHz\_TX

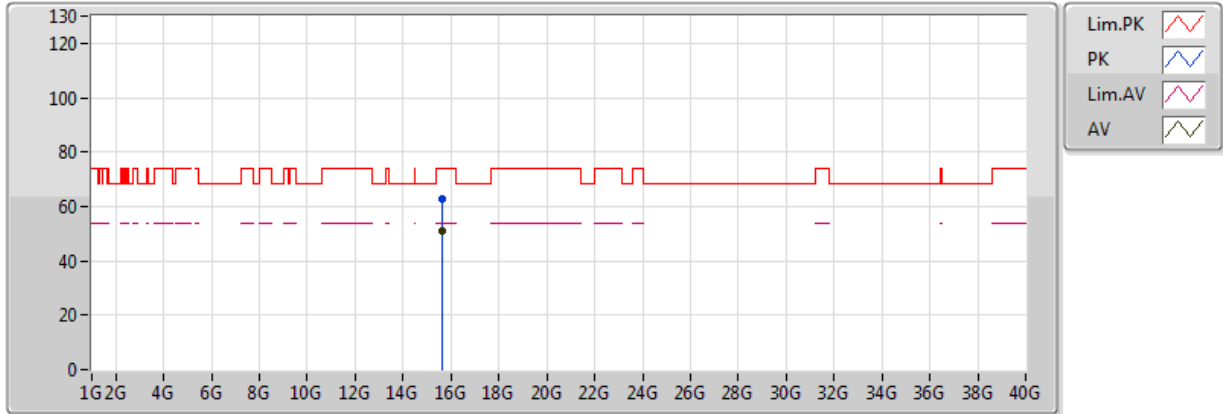


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 13  
 05-M-1-10  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.135G	53.53	54.00	-0.47	7.31	3	V	316	1.56	-
AV	5.179G	99.22	Inf	-Inf	7.38	3	V	316	1.56	-
AV	5.362G	49.76	54.00	-4.24	7.69	3	V	316	1.56	-
PK	5.149G	68.89	74.00	-5.11	7.33	3	V	316	1.56	-
PK	5.195G	106.88	Inf	-Inf	7.41	3	V	316	1.56	-
PK	5.422G	61.32	74.00	-12.68	7.79	3	V	316	1.56	-

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

### 5210MHz\_TX

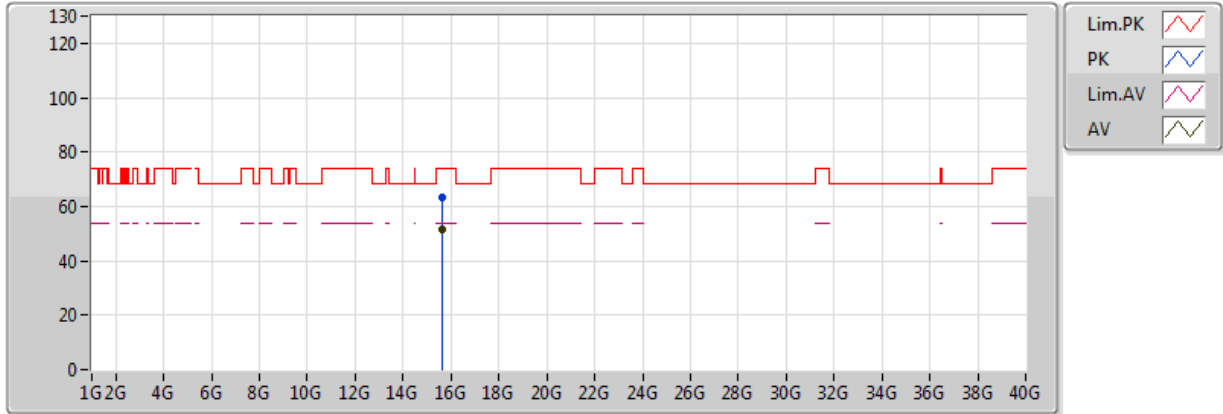


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 13  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.62506G	50.89	54.00	-3.11	19.29	3	V	105	1.36	-
PK	15.6269G	62.54	74.00	-11.46	19.28	3	V	105	1.36	-

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

### 5210MHz\_TX

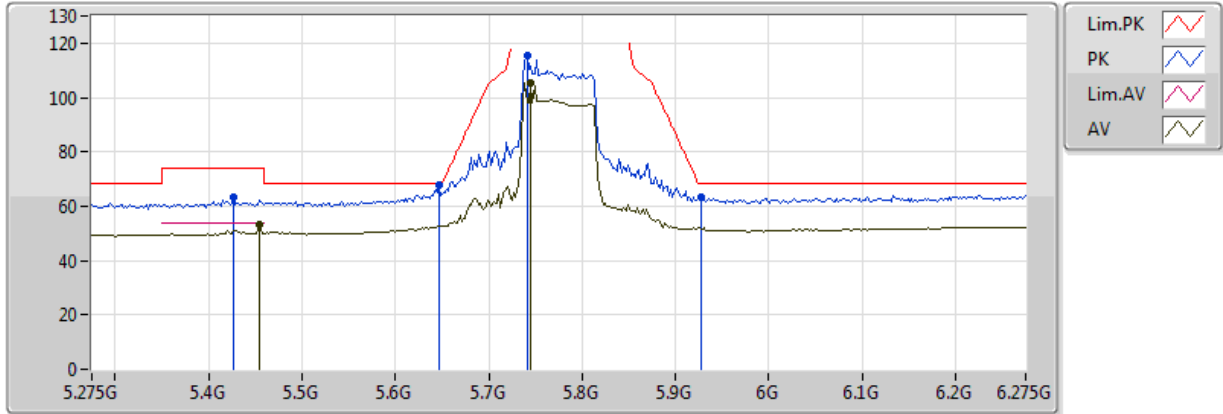


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 13  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.6252G	51.35	54.00	-2.65	19.81	3	H	193	2.36	-
PK	15.62596G	63.19	74.00	-10.81	19.80	3	H	193	2.36	-

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

### 5775MHz\_TX

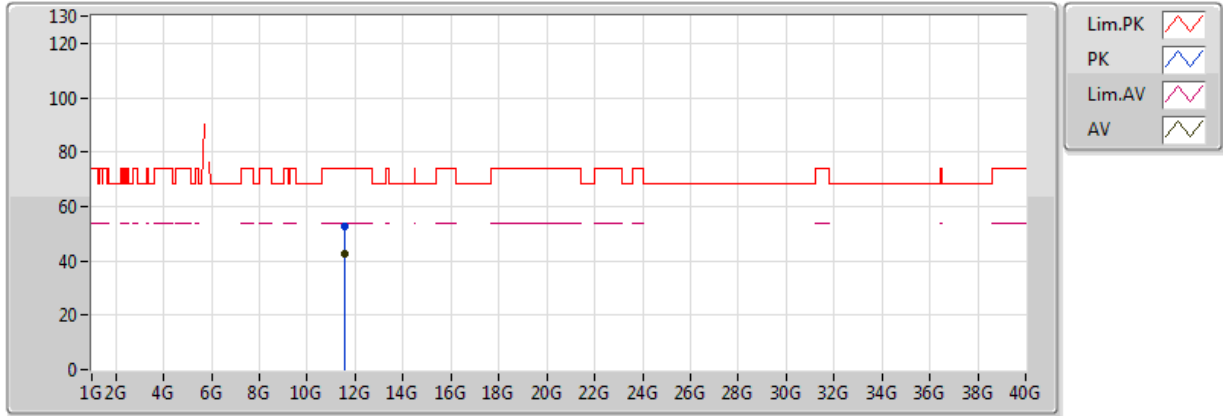


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 21  
 05-M-1-10  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.455G	52.96	54.00	-1.04	7.84	3	V	226	1.50	-
AV	5.745G	105.42	Inf	-Inf	8.40	3	V	226	1.50	-
PK	5.647G	67.79	68.20	-0.41	8.21	3	V	226	1.50	-
PK	5.741G	115.54	Inf	-Inf	8.39	3	V	226	1.50	-
PK	5.927G	63.32	68.20	-4.88	8.83	3	V	226	1.50	-
PK	5.427G	63.11	74.00	-10.89	7.79	3	V	226	1.50	-

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

### 5775MHz\_TX

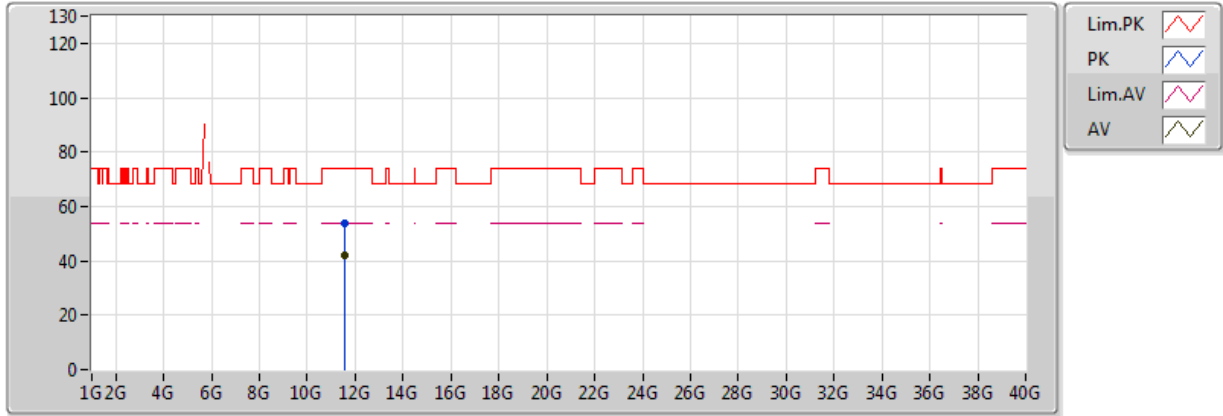


20170518  
 EUT Y 2TX ANT Dipole  
 Setting 21  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.55068G	42.45	54.00	-11.55	17.93	3	V	300	1.30	-
PK	11.54792G	52.49	74.00	-21.51	17.93	3	V	300	1.30	-

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

### 5775MHz\_TX



20170518  
 EUT Y 2TX ANT Dipole  
 Setting 21  
 05-M-1  
 FSV  
 TXBF

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.54866G	42.05	54.00	-11.95	18.69	3	H	159	1.37	-
PK	11.5543G	53.54	74.00	-20.46	18.69	3	H	159	1.37	-



Mode: 20 MHz / Port 2

**Voltage vs. Frequency Stability**

Voltage (V)	Measurement Frequency (MHz)			
	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9660	5199.9657	5199.9652	5199.9651
110.00	5199.9655	5199.9651	5199.9645	5199.9637
93.50	5199.9653	5199.9650	5199.9648	5199.9638
Max. Deviation (MHz)	0.0347	0.0350	0.0355	0.0363
Max. Deviation (ppm)	6.67	6.73	6.83	6.98
Result	Pass			

**Temperature vs. Frequency Stability**

Temperature (°C)	Measurement Frequency (MHz)			
	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5199.9635	5199.9632	5199.9625	5199.9618
10	5199.9642	5199.9640	5199.9630	5199.9626
20	5199.9655	5199.9653	5199.9647	5199.9643
30	5199.9968	5199.9963	5199.9954	5199.9951
40	5199.9982	5199.9978	5199.9977	5199.9969
Max. Deviation (MHz)	0.0390	0.0399	0.0409	0.0414
Max. Deviation (ppm)	7.50	7.67	7.87	7.96
Result	Pass			

**Voltage vs. Frequency Stability**

Voltage (V)	Measurement Frequency (MHz)			
	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9662	5784.9659	5784.9650	5784.9641
110.00	5784.9655	5784.9648	5784.9640	5784.9630
93.50	5784.9647	5784.9645	5784.9641	5784.9634
Max. Deviation (MHz)	0.0353	0.0355	0.0360	0.0370
Max. Deviation (ppm)	6.10	6.14	6.22	6.40
Result	Pass			

**Temperature vs. Frequency Stability**

Temperature (°C)	Measurement Frequency (MHz)			
	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5784.9633	5784.9628	5784.9627	5784.9623
10	5784.9641	5784.9638	5784.9630	5784.9623
20	5784.9655	5784.9646	5784.9638	5784.9636
30	5784.9968	5784.9958	5784.9948	5784.9947
40	5784.9980	5784.9972	5784.9968	5784.9959
Max. Deviation (MHz)	0.0404	0.0411	0.0418	0.0428
Max. Deviation (ppm)	6.98	7.10	7.23	7.40
Result	Pass			





**Mode: 40 MHz / Port 2**  
**Voltage vs. Frequency Stability**

Voltage (V)	Measurement Frequency (MHz)			
	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5189.9659	5189.9657	5189.9648	5189.9638
110.00	5189.9655	5189.9646	5189.9638	5189.9631
93.50	5189.9648	5189.9644	5189.9634	5189.9630
Max. Deviation (MHz)	0.0352	0.0356	0.0366	0.0370
Max. Deviation (ppm)	6.78	6.86	7.05	7.13
Result	Pass			

**Temperature vs. Frequency Stability**

Temperature (°C)	Measurement Frequency (MHz)			
	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5189.9642	5189.9640	5189.9637	5189.9636
10	5189.9648	5189.9639	5189.9635	5189.9628
20	5189.9655	5189.9649	5189.9643	5189.9642
30	5189.9968	5189.9958	5189.9953	5189.9943
40	5189.9675	5189.9667	5189.9660	5189.9657
Max. Deviation (MHz)	0.0389	0.0395	0.0401	0.0411
Max. Deviation (ppm)	7.50	7.61	7.73	7.92
Result	Pass			

**Voltage vs. Frequency Stability**

Voltage (V)	Measurement Frequency (MHz)			
	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9657	5754.9656	5754.9655	5754.9654
110.00	5754.9655	5754.9653	5754.9646	5754.9641
93.50	5754.9645	5754.9642	5754.9639	5754.9636
Max. Deviation (MHz)	0.0355	0.0358	0.0361	0.0364
Max. Deviation (ppm)	6.17	6.22	6.27	6.32
Result	Pass			

**Temperature vs. Frequency Stability**

Temperature (°C)	Measurement Frequency (MHz)			
	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5754.9627	5754.9620	5754.9618	5754.9615
10	5754.9639	5754.9634	5754.9632	5754.9628
20	5754.9655	5754.9647	5754.9646	5754.9644
30	5754.9968	5754.9967	5754.9966	5754.9961
40	5754.9673	5754.9664	5754.9661	5754.9659
Max. Deviation (MHz)	0.0415	0.0422	0.0430	0.0431
Max. Deviation (ppm)	7.21	7.33	7.47	7.49
Result	Pass			



**Mode: 80 MHz / Port 2**  
**Voltage vs. Frequency Stability**

Voltage (V)	Measurement Frequency (MHz)			
	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5209.9657	5209.9654	5209.9649	5209.9644
110.00	5209.9655	5209.9654	5209.9645	5209.9644
93.50	5209.9654	5209.9652	5209.9644	5209.9638
Max. Deviation (MHz)	0.0346	0.0348	0.0356	0.0362
Max. Deviation (ppm)	6.64	6.68	6.83	6.95
Result	Pass			

**Temperature vs. Frequency Stability**

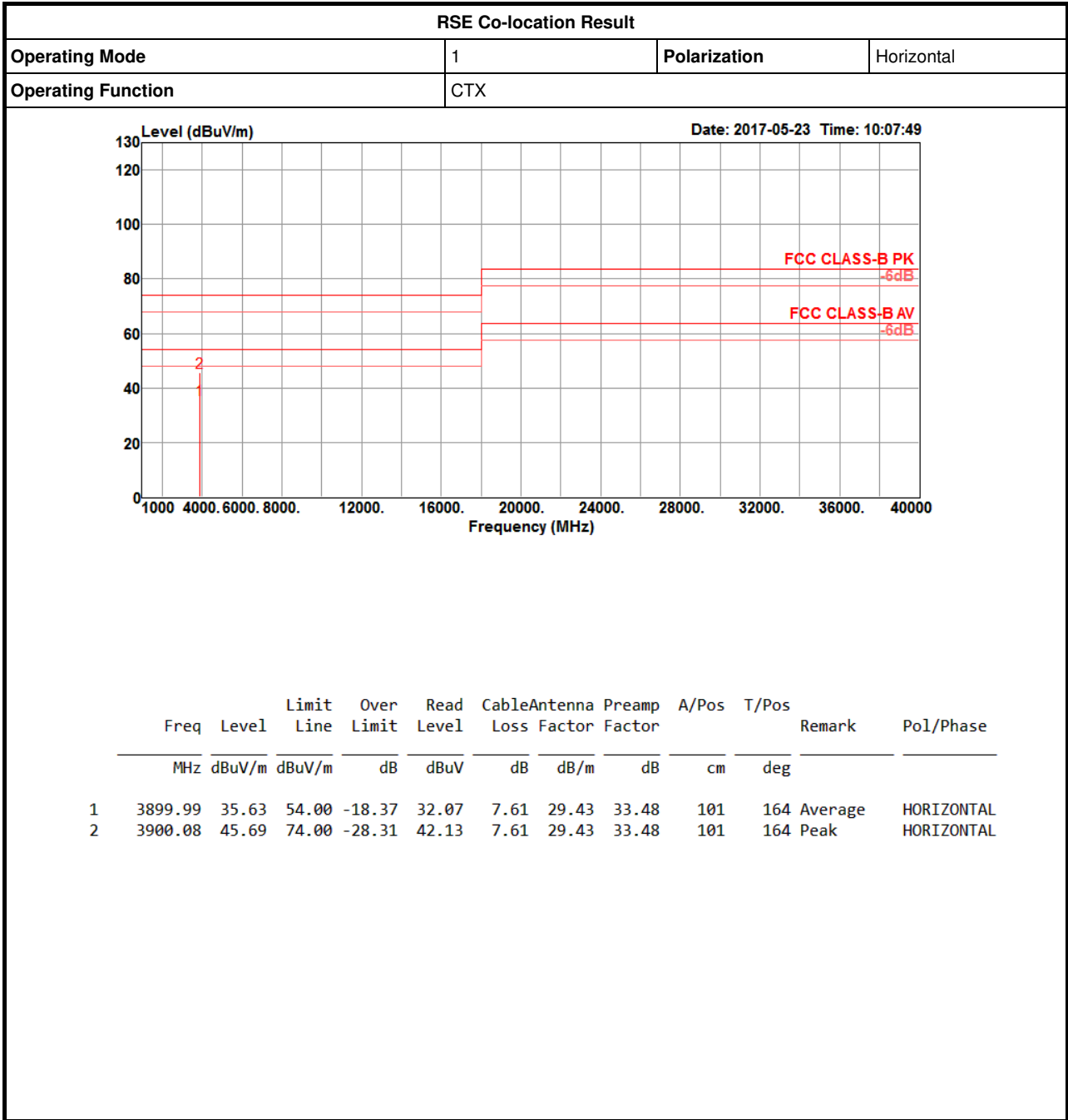
Temperature (°C)	Measurement Frequency (MHz)			
	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5209.9619	5209.9618	5209.9610	5209.9605
10	5209.9635	5209.9632	5209.9629	5209.9628
20	5209.9655	5209.9645	5209.9642	5209.9632
30	5209.9968	5209.9963	5209.9959	5209.9956
40	5209.9977	5209.9976	5209.9969	5209.9961
Max. Deviation (MHz)	0.0404	0.0414	0.0418	0.0422
Max. Deviation (ppm)	7.75	7.95	8.02	8.10
Result	Pass			

**Voltage vs. Frequency Stability**

Voltage (V)	Measurement Frequency (MHz)			
	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9661	5774.9655	5774.9653	5774.9649
110.00	5774.9655	5774.9650	5774.9648	5774.9644
93.50	5774.9645	5774.9636	5774.9632	5774.9631
Max. Deviation (MHz)	0.0355	0.0364	0.0368	0.0369
Max. Deviation (ppm)	6.15	6.30	6.37	6.39
Result	Pass			

**Temperature vs. Frequency Stability**

Temperature (°C)	Measurement Frequency (MHz)			
	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5774.9635	5774.9625	5774.9620	5774.9610
10	5774.9636	5774.9628	5774.9626	5774.9625
20	5774.9655	5774.9652	5774.9647	5774.9642
30	5774.9968	5774.9959	5774.9950	5774.9949
40	5774.9980	5774.9977	5774.9969	5774.9968
Max. Deviation (MHz)	0.0405	0.0413	0.0420	0.0428
Max. Deviation (ppm)	7.01	7.15	7.27	7.41
Result	Pass			





**RSE Co-location Result**

