



FCC RADIO TEST REPORT

FCC ID : 2A0IDGRYPHON02
Equipment : Gryphon Guardian
Brand Name : Gryphon
Model Name : Guardian
Applicant : Gryphon Online Safety, Inc.
10265 Prairie Springs Road, San Diego CA 92127 USA
Manufacturer : Gryphon Online Safety, Inc.
10265 Prairie Springs Road, San Diego CA 92127 USA
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 31, 2019, and testing was started from Nov. 01, 2019 and completed on Jan. 17, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Sam Chen

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



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



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Viola Huang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
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	2
5.15-5.25GHz	802.11n HT20	20	2
5.15-5.25GHz	802.11n HT20-BF	20	2
5.15-5.25GHz	802.11ac VHT20	20	2
5.15-5.25GHz	802.11ac VHT20-BF	20	2
5.15-5.25GHz	802.11n HT40	40	2
5.15-5.25GHz	802.11n HT40-BF	40	2
5.15-5.25GHz	802.11ac VHT40	40	2
5.15-5.25GHz	802.11ac VHT40-BF	40	2
5.15-5.25GHz	802.11ac VHT80	80	2
5.15-5.25GHz	802.11ac VHT80-BF	80	2
5.725-5.85GHz	802.11a	20	2
5.725-5.85GHz	802.11n HT20	20	2
5.725-5.85GHz	802.11n HT20-BF	20	2
5.725-5.85GHz	802.11ac VHT20	20	2
5.725-5.85GHz	802.11ac VHT20-BF	20	2
5.725-5.85GHz	802.11n HT40	40	2
5.725-5.85GHz	802.11n HT40-BF	40	2
5.725-5.85GHz	802.11ac VHT40	40	2
5.725-5.85GHz	802.11ac VHT40-BF	40	2
5.725-5.85GHz	802.11ac VHT80	80	2
5.725-5.85GHz	802.11ac VHT80-BF	80	2



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	Gemtek	WRTQ-348ACN	PIFA Antenna	I-PEX	2.58	5.94
2	2	Gemtek	WRTQ-348ACN	PIFA Antenna	I-PEX	4.15	5.34

Note1: The EUT has two antennas.

Note2: The above information was declared by manufacturer.

<For 2.4GHz Band>**For IEEE 802.11b/g/n/VHT mode (2TX/2RX)**

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

Port 1 and Port 2 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)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.966	0.15	2.065m	1k
802.11ac VHT20	0.985	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20-BF	0.926	0.33	1.762m	1k
802.11ac VHT40	0.97	0.13	2.44m	1k
802.11ac VHT40-BF	0.917	0.38	1.759m	1k
802.11ac VHT80	0.938	0.28	1.153m	1k
802.11ac VHT80-BF	0.927	0.33	1.95m	1k

Note:

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

**1.1.4 EUT Operational Condition**

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	For VHT in 2.4GHz and 11n/ac in 5GHz			
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	Non beamforming mode: QRCT: v3.0.298.0 & Beamforming mode: teraterm.exe			

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Eddie Weng	23.4~24.9°C / 54~59%	Nov. 05, 2019~Nov. 06, 2019
Radiated below 1GHz	03CH03-CB	KJ Chang	22.4~23.4°C / 57~61%	Jan. 17, 2020
Radiated above 1GHz	03CH05-CB	Justin Lin	22.8~24.1°C / 54~58%	Nov. 01, 2019~Nov. 06, 2019
AC Conduction	CO02-CB	Rick Yeh	20~21°C / 50~51%	Dec. 09, 2019

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	21.5
5200MHz	26
5240MHz	22.5
5745MHz	22
5785MHz	26
5825MHz	26
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	21.5
5200MHz	26
5240MHz	22
5745MHz	26
5785MHz	26
5825MHz	26
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	17.5
5230MHz	21.5
5755MHz	22
5795MHz	26
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	16
5775MHz	21
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	26
5200MHz	26
5240MHz	26
5745MHz	26
5785MHz	26
5825MHz	26
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	20.5
5230MHz	26
5755MHz	26
5795MHz	26
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	20.5



Mode	PowerSetting
5775MHz	26

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 for VHT in 2.4GHz and 11n/ac in 5GHz. One is beamforming mode, and the other is non-beamforming mode. Both modes have been tested and recorded in this test report.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT + Adapter (Mesh Mode)

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT + Adapter (Mesh Mode)
Operating Mode > 1GHz	CTX

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
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix F 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	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA990901 for Co-location RF Exposure Evaluation.	

Note: The EUT supports AP Router and Mesh mode, after evaluating, only Mesh mode was tested and recorded in this test report.



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

During the test, the following programs under WIN 7 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 telnet.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Holder	Model Name	Rating
AC Adapter	CHENZHOUE FRECOM ELECTRONICS CO.,LTD.	F12L33-120100SPAU	INPUT: 100-240V, 50/60Hz, 0.3A OUTPUT: 12V, 1A
Other			
RJ-45 cable*1: Non-Shielded, 1m			



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	2.4G NB	DELL	E6430	N/A
C	5G NB	DELL	E6430	N/A
D	AP Router	ASUS	RP-N53	N/A
E	AP Router NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Phone	HTC	One X9	N/A
D	NB	Apple	Mac Book	N/A
E	WLAN AP	D-LINK	DIR860L	N/A

For Radiated (above 1GHz) and RF Conducted:

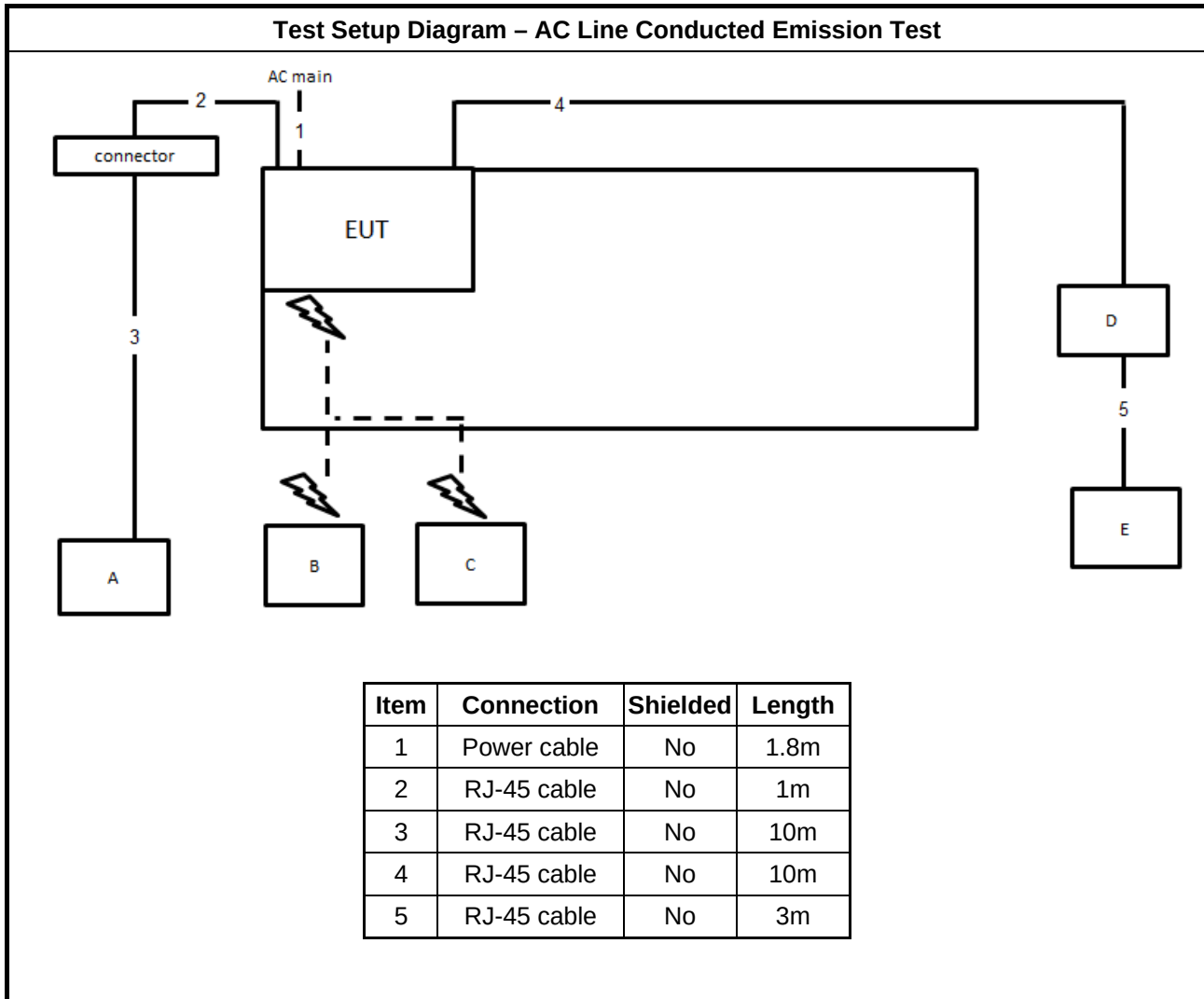
For non-beamforming mode

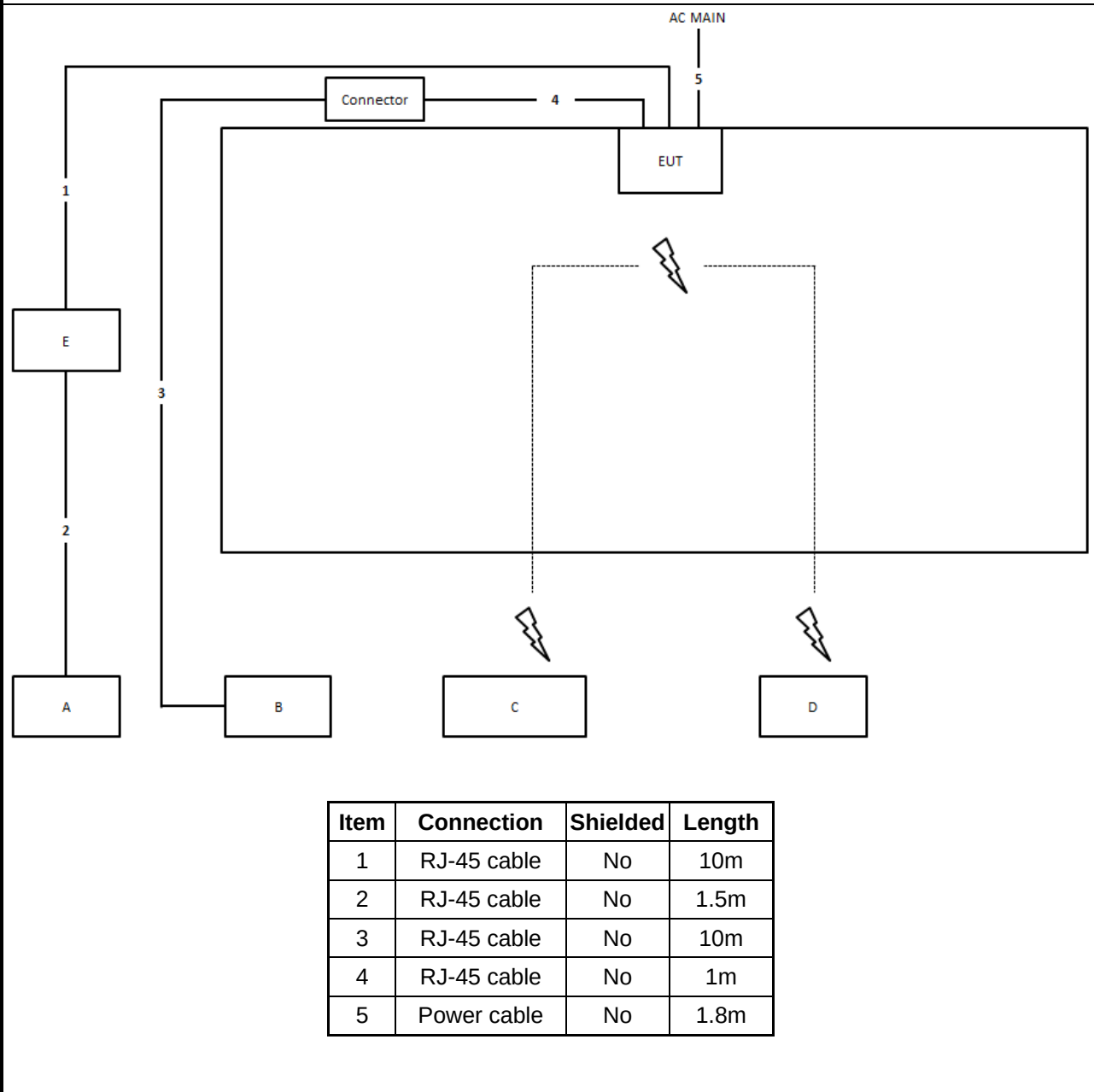
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

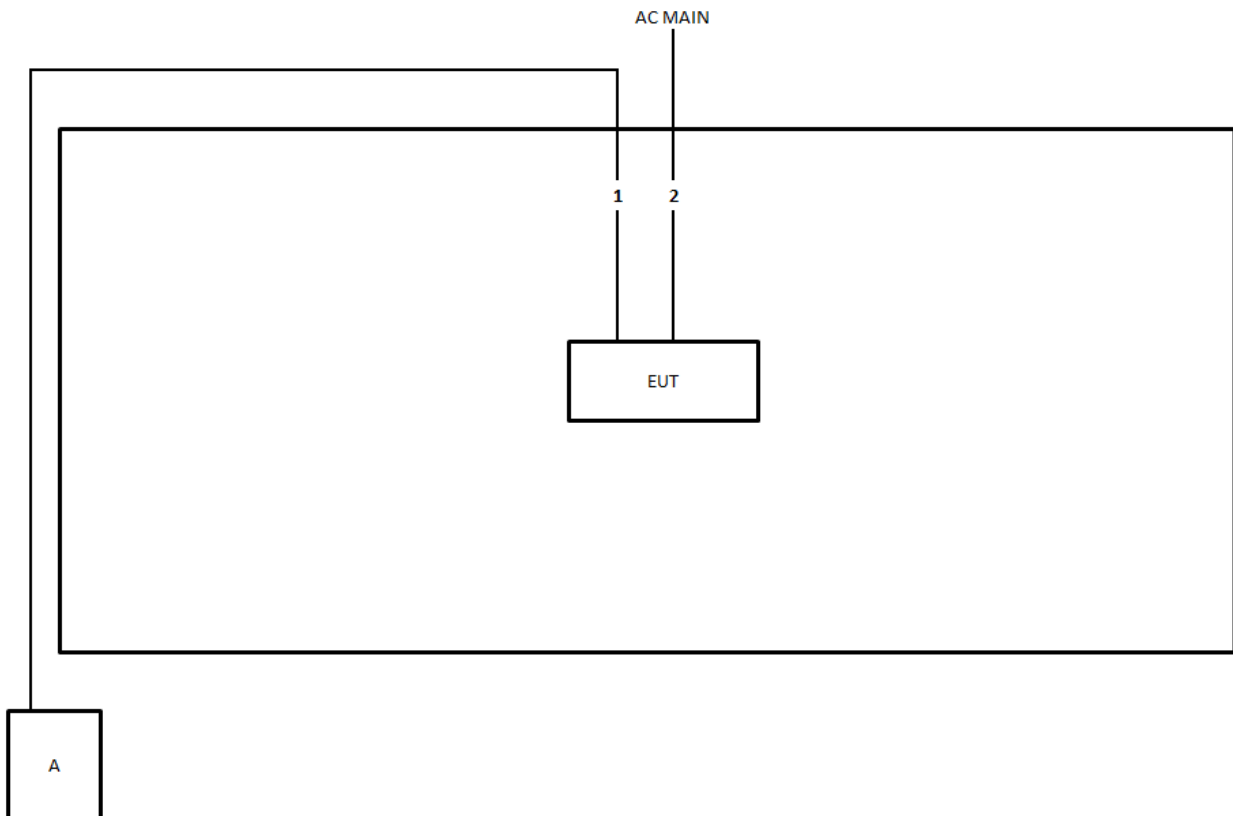
For beamforming mode

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	RX Device	Gryphon	Guardian	2A0IDGRYPHON02
C	NB	DELL	E4300	N/A

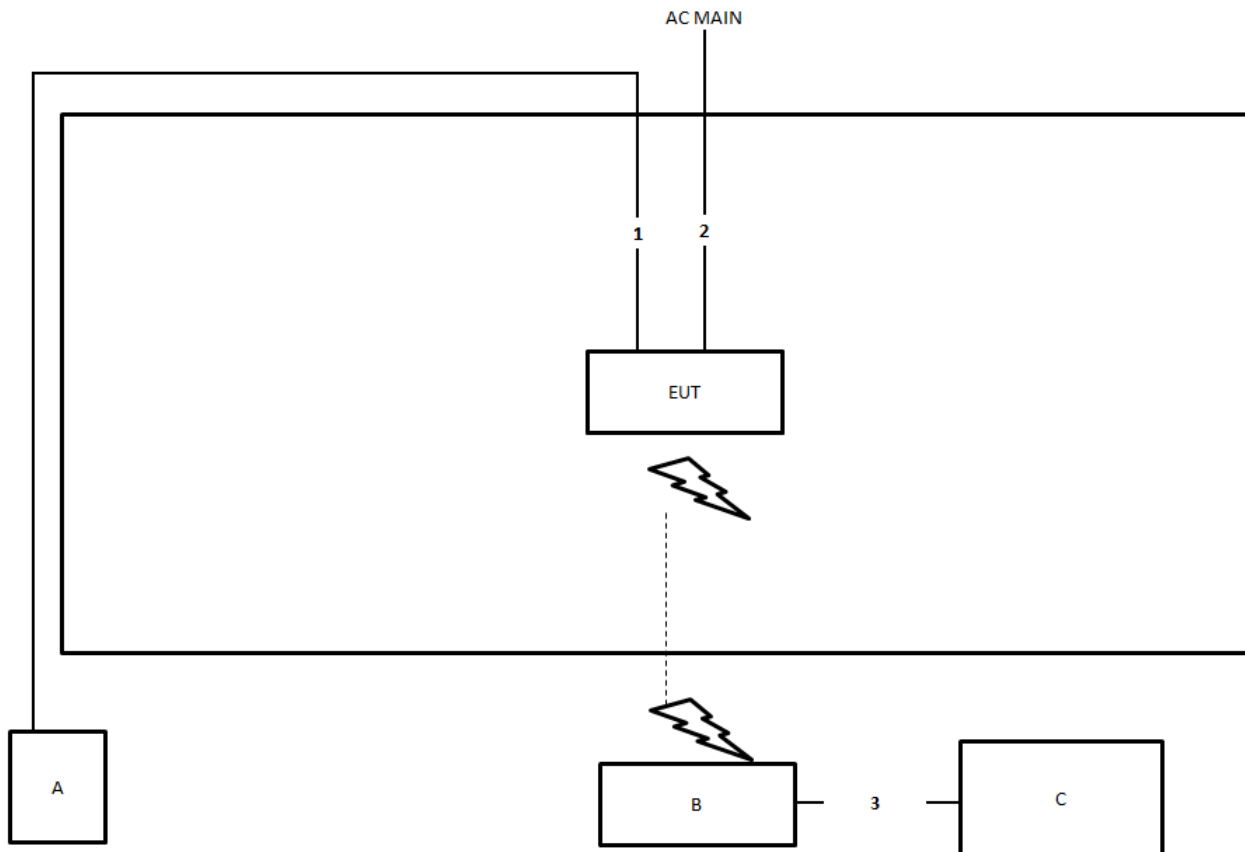
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Test Setup Diagram - Radiated Test > 1GHz / for non-beamforming mode


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.8m

Test Setup Diagram - Radiated Test > 1GHz / for beamforming mode


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.8m
3	RJ-45 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.		

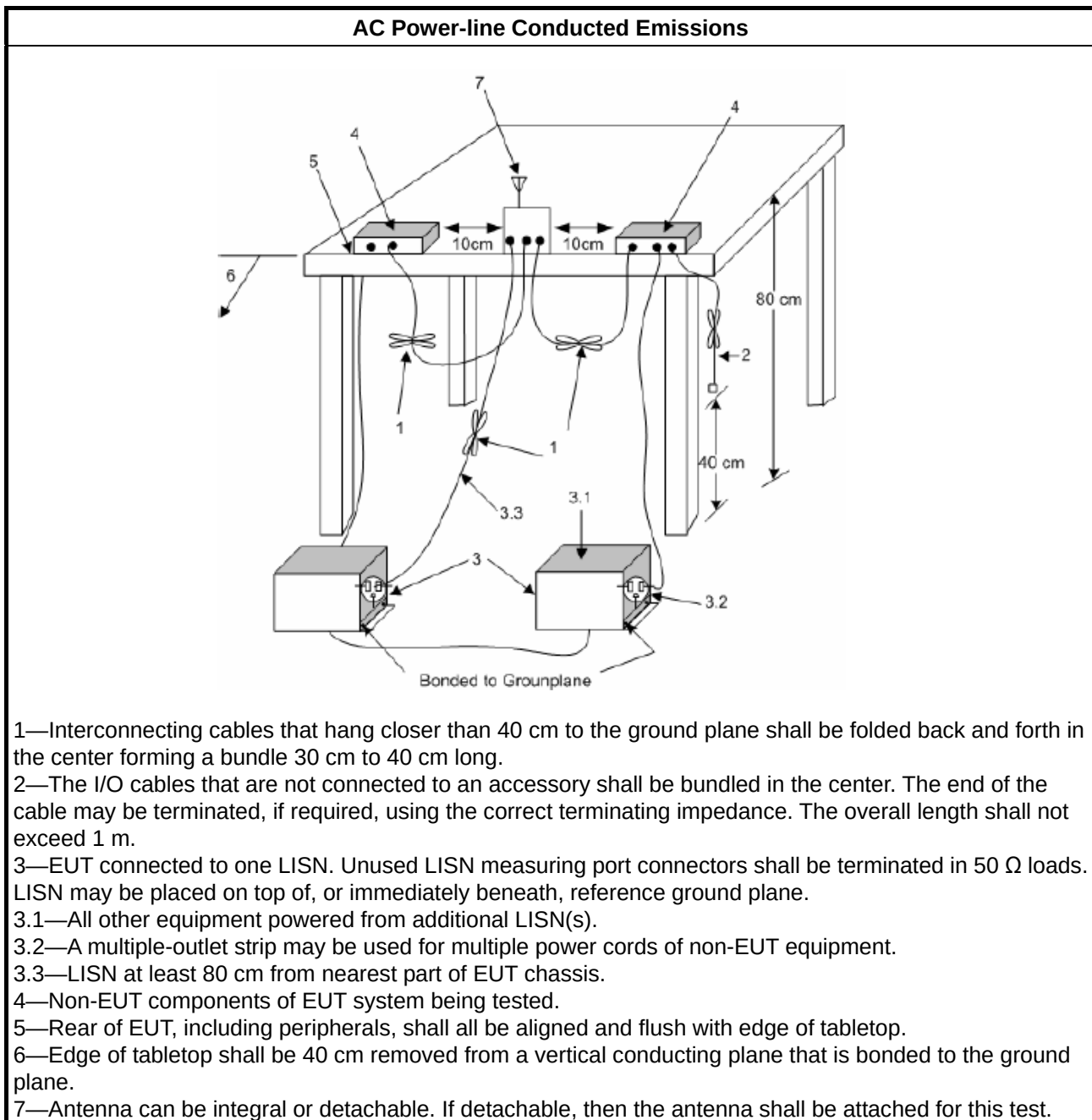
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ 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	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☐	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

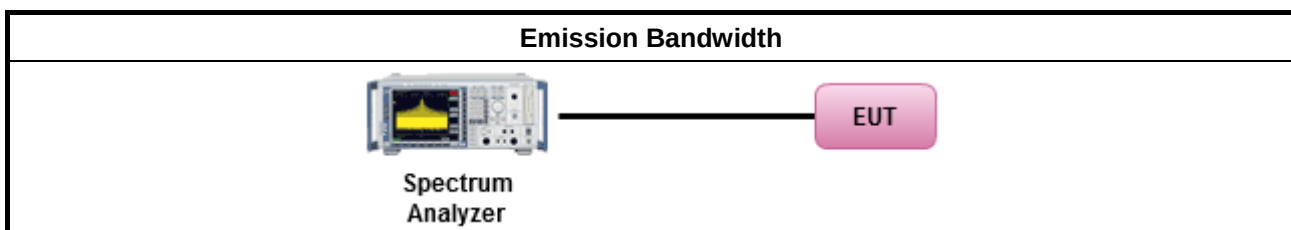
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 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	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

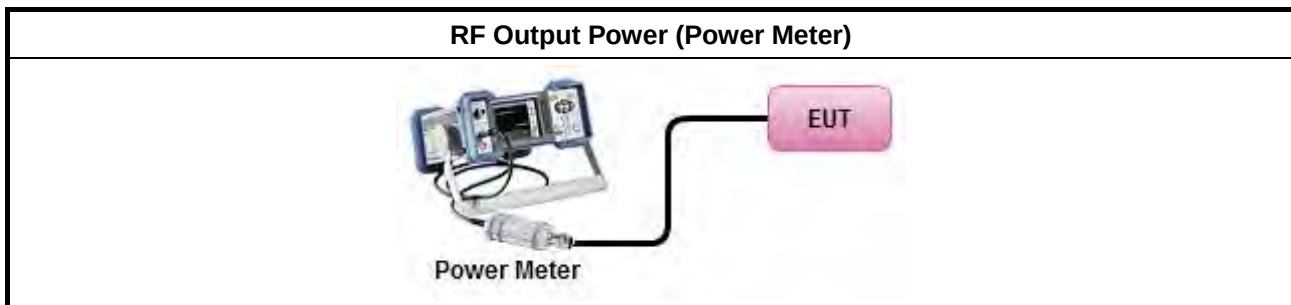
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	Average over on/off periods with duty factor
	☐ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
	☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

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	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☐ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 ($\theta$-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that the same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

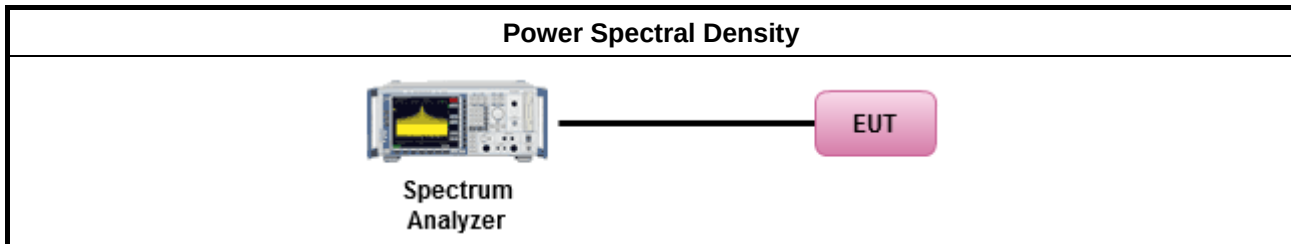
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

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 Unwanted Emissions Limit

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

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

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

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

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

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



linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

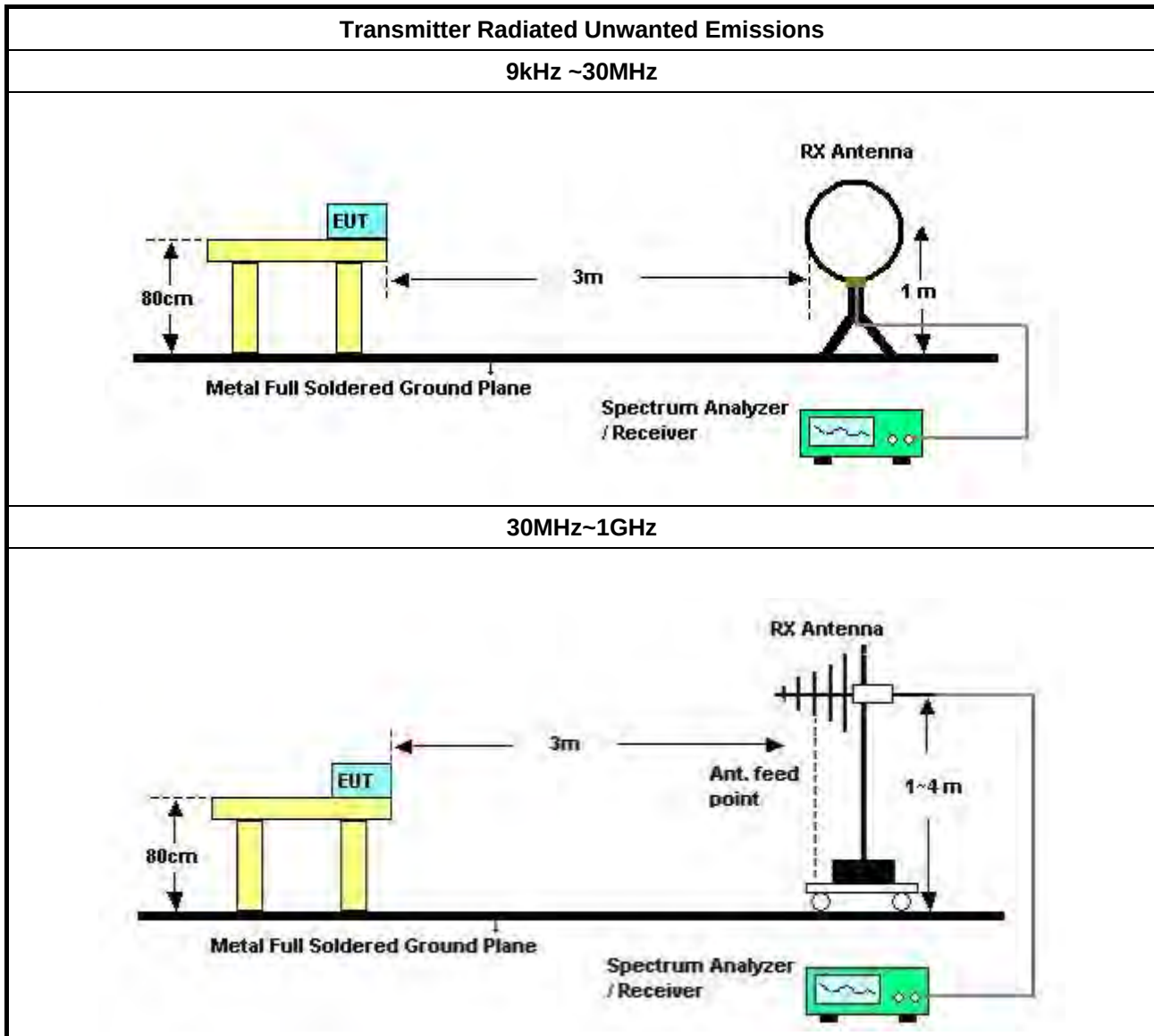
3.5.2 Measuring Instruments

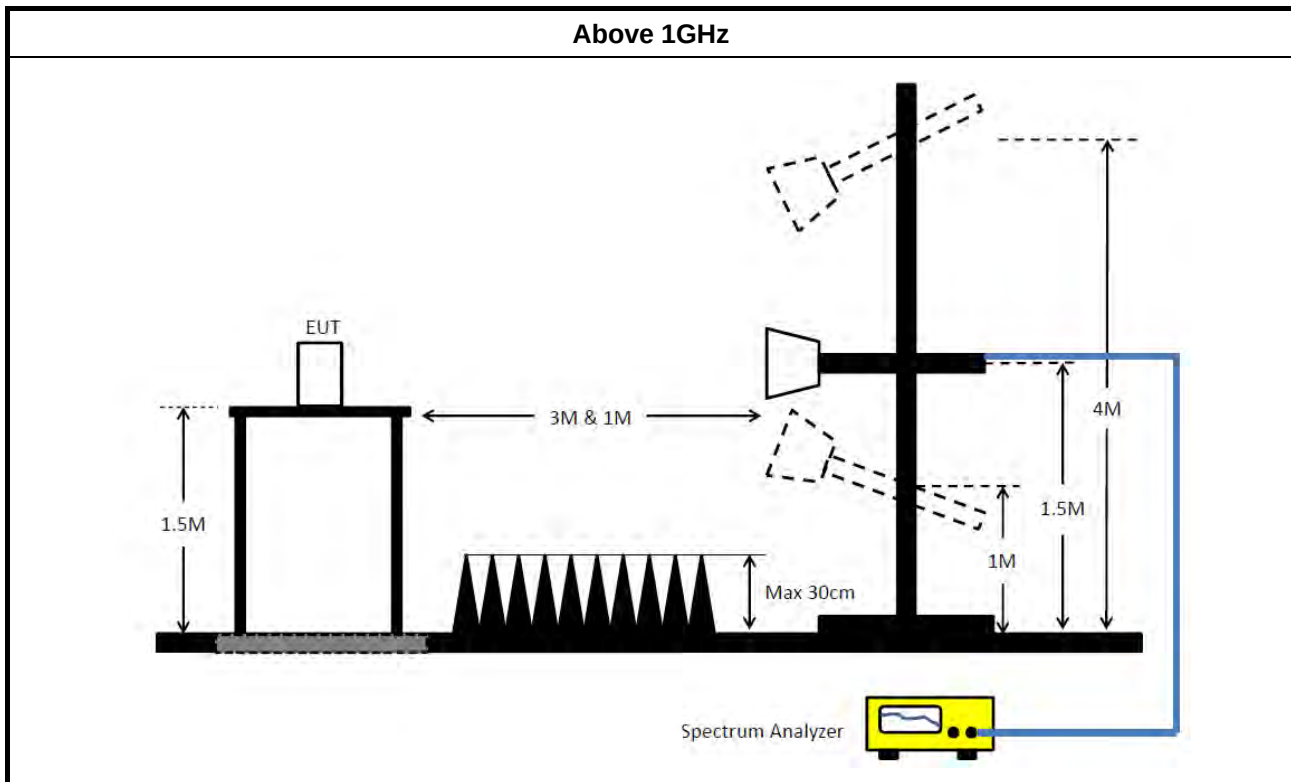
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
For radiated measurement.	Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
The any unwanted emissions level shall not exceed the fundamental emission level.	☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

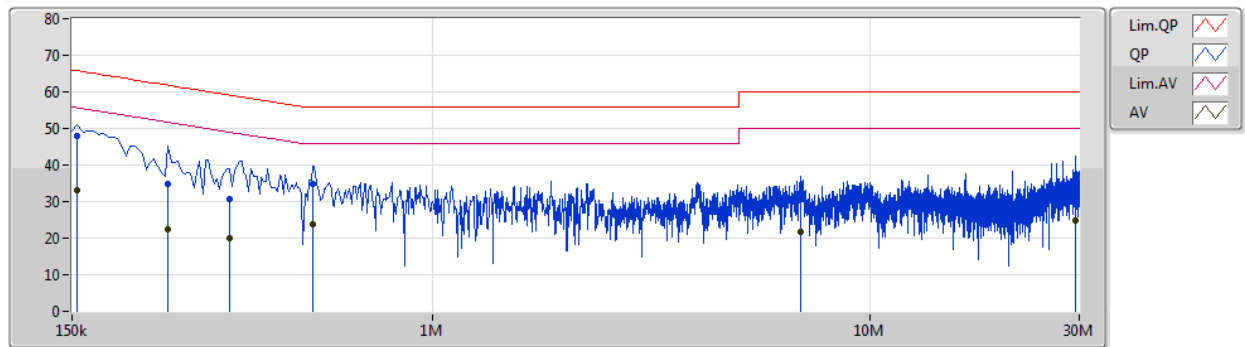
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 21, 2019	Nov. 20, 2020	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Oct. 30, 2019	Oct. 29, 2020	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 16, 2019	Jan. 15, 2020	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 21, 2019	Oct. 20, 2020	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Bilog Antenna with 6dB Attenuator	Schaffner & EMCi	CBL6112 & N-6-06	2888 & AT-N0611	30MHz ~ 1GHz	Oct. 12, 2019	Oct. 11, 2020	Radiation (03CH03-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH03-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 01, 2019	Apr. 30, 2020	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 19, 2019	Jun. 18, 2020	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+27	25MHz ~ 1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1291	1GHz~18GHz	Oct. 05, 2019	Oct. 04, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Apr. 16, 2019	Apr. 15, 2020	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)



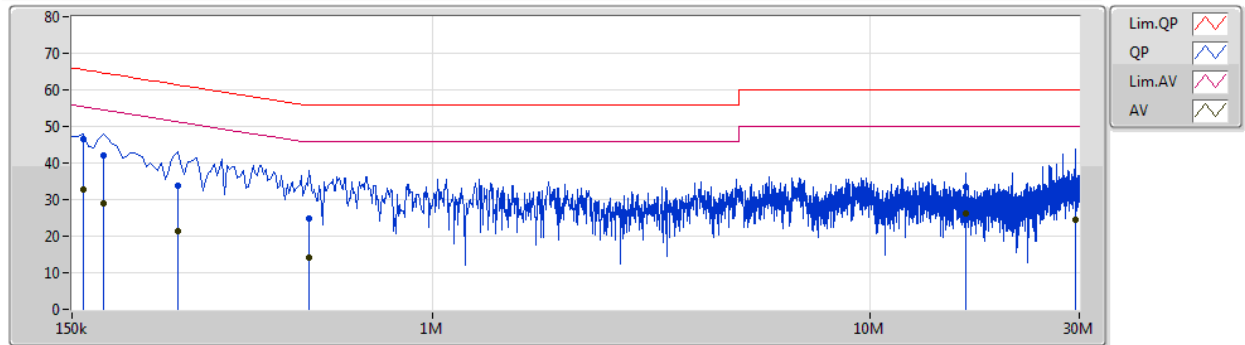
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)

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

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



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	AF (dB)	CL (dB)	AT (dB)			
QP	154.5k	47.83	65.75	-17.92	10.21	Line	"Worst"	37.62	0.05	0.06	10.10			
AV	154.5k	32.98	55.75	-22.77	10.21	Line	-	22.77	0.05	0.06	10.10			
QP	249k	34.71	61.79	-27.08	10.22	Line	-	24.49	0.05	0.07	10.10			
AV	249k	22.39	51.79	-29.40	10.22	Line	-	12.17	0.05	0.07	10.10			
QP	342.812k	30.57	59.14	-28.57	10.24	Line	-	20.33	0.06	0.08	10.10			
AV	342.812k	19.99	49.14	-29.15	10.24	Line	-	9.75	0.06	0.08	10.10			
QP	532.5k	34.67	56.00	-21.33	10.25	Line	-	24.42	0.06	0.09	10.10			
AV	532.5k	23.95	46.00	-22.05	10.25	Line	-	13.70	0.06	0.09	10.10			
QP	6.927M	31.97	60.00	-28.03	10.44	Line	-	21.53	0.17	0.16	10.11			
AV	6.927M	21.81	50.00	-28.19	10.44	Line	-	11.37	0.17	0.16	10.11			
QP	29.486M	34.97	60.00	-25.03	10.76	Line	-	24.21	0.39	0.24	10.13			
AV	29.486M	24.96	50.00	-25.04	10.76	Line	-	14.20	0.39	0.24	10.13			



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	AF (dB)	CL (dB)	AT (dB)			
QP	159k	46.59	65.52	-18.93	10.19	Neutral	"Worst"	36.40	0.03	0.06	10.10			
AV	159k	32.90	55.52	-22.62	10.19	Neutral	-	22.71	0.03	0.06	10.10			
QP	177k	42.22	64.62	-22.40	10.19	Neutral	-	32.03	0.03	0.06	10.10			
AV	177k	28.99	54.62	-25.63	10.19	Neutral	-	18.80	0.03	0.06	10.10			
QP	262.5k	33.84	61.35	-27.51	10.20	Neutral	-	23.64	0.03	0.07	10.10			
AV	262.5k	21.46	51.35	-29.89	10.20	Neutral	-	11.26	0.03	0.07	10.10			
QP	523.5k	24.72	56.00	-31.28	10.23	Neutral	-	14.49	0.04	0.09	10.10			
AV	523.5k	14.25	46.00	-31.75	10.23	Neutral	-	4.02	0.04	0.09	10.10			
QP	16.467M	33.29	60.00	-26.71	10.52	Neutral	-	22.77	0.20	0.21	10.11			
AV	16.467M	26.20	50.00	-23.80	10.52	Neutral	-	15.68	0.20	0.21	10.11			
QP	29.472M	34.65	60.00	-25.35	10.69	Neutral	-	23.96	0.32	0.24	10.13			
AV	29.472M	24.44	50.00	-25.56	10.69	Neutral	-	13.75	0.32	0.24	10.13			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	47.16M	30.375M	30M4D1D	33.39M	16.642M
802.11ac VHT20_Nss1,(MCS0)_2TX	50.01M	31.214M	31M2D1D	36.84M	17.871M
802.11ac VHT40_Nss1,(MCS0)_2TX	74.82M	36.462M	36M5D1D	39.78M	35.922M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.28M	75.802M	75M8D1D	83.04M	75.802M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.32M	33.673M	33M7D1D	16.02M	18.231M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.61M	35.502M	35M5D1D	17.28M	31.454M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.28M	66.687M	66M7D1D	35.04M	46.297M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.6M	84.918M	84M9D1D	73.8M	76.522M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	33.99M	16.642M	33.39M	16.762M
5200MHz	Pass	Inf	47.16M	29.295M	46.53M	30.375M
5240MHz	Pass	Inf	40.38M	18.771M	39.51M	20.12M
5745MHz	Pass	500k	16.29M	18.231M	16.29M	23.478M
5785MHz	Pass	500k	16.32M	32.384M	16.32M	33.493M
5825MHz	Pass	500k	16.02M	30.165M	16.32M	33.673M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	36.84M	17.871M	37.86M	17.901M
5200MHz	Pass	Inf	49.98M	29.805M	50.01M	31.214M
5240MHz	Pass	Inf	40.89M	18.171M	42.39M	18.651M
5745MHz	Pass	500k	17.55M	32.774M	17.58M	34.903M
5785MHz	Pass	500k	17.58M	33.523M	17.28M	35.352M
5825MHz	Pass	500k	17.55M	31.454M	17.61M	35.502M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	35.922M	39.78M	36.102M
5230MHz	Pass	Inf	73.62M	36.402M	74.82M	36.462M
5755MHz	Pass	500k	35.16M	46.297M	35.1M	58.411M
5795MHz	Pass	500k	35.28M	60.45M	35.04M	66.687M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	83.28M	75.802M	83.04M	75.802M
5775MHz	Pass	500k	75.6M	76.522M	73.8M	84.918M

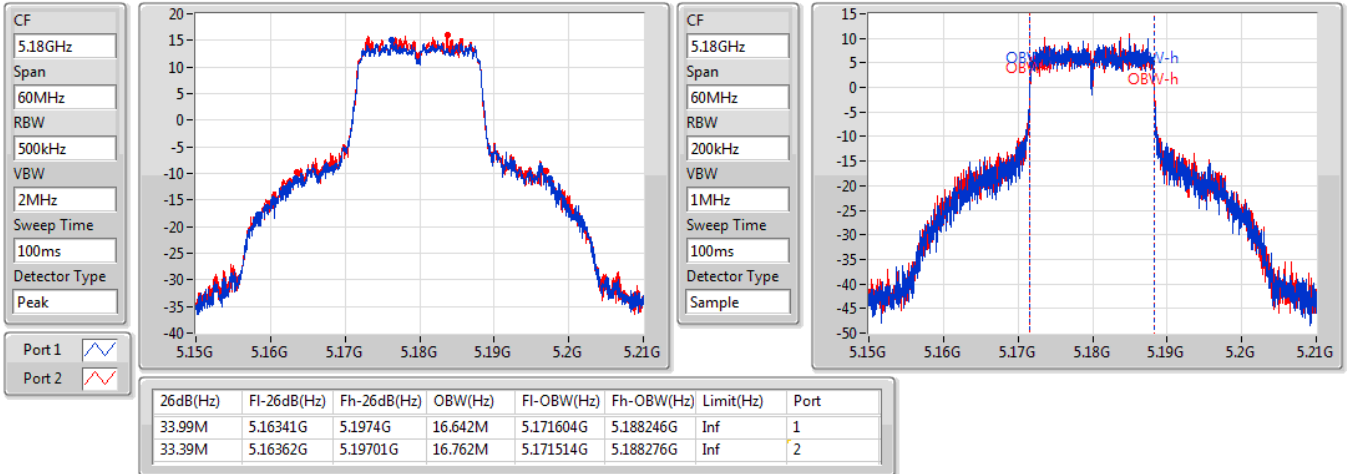
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11a_Nss1,(6Mbps)_2TX

EBW
5180MHz

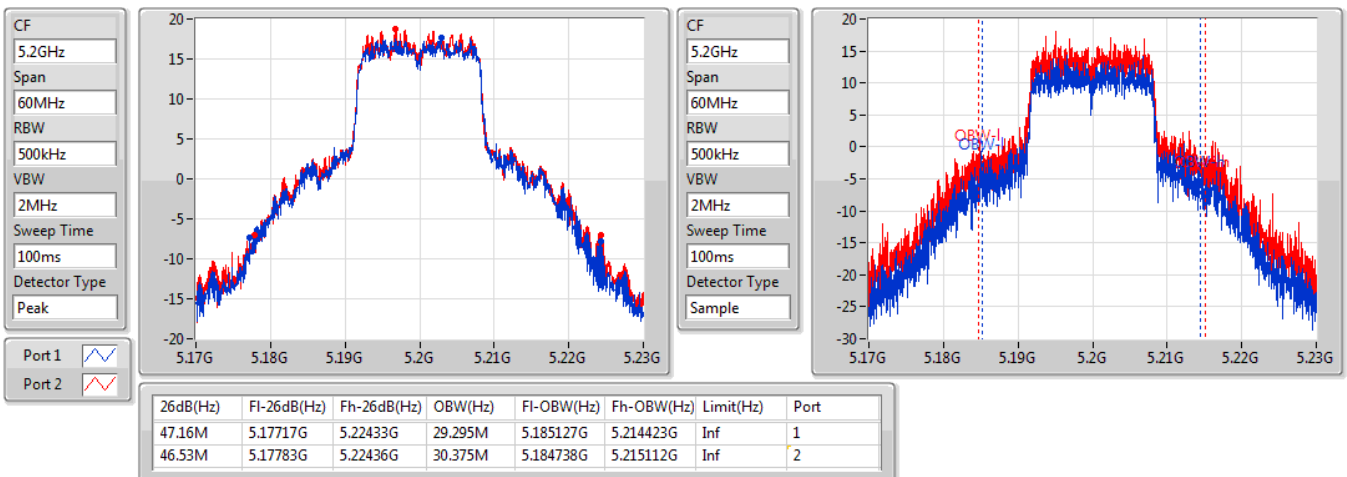
05/11/2019



802.11a_Nss1,(6Mbps)_2TX

EBW
5200MHz

05/11/2019

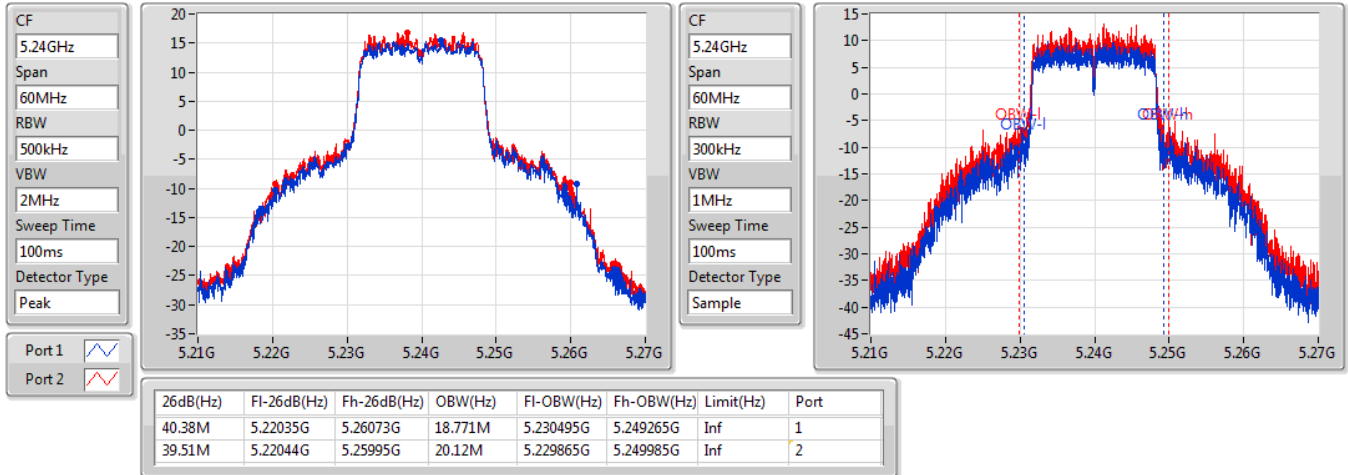


802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

05/11/2019

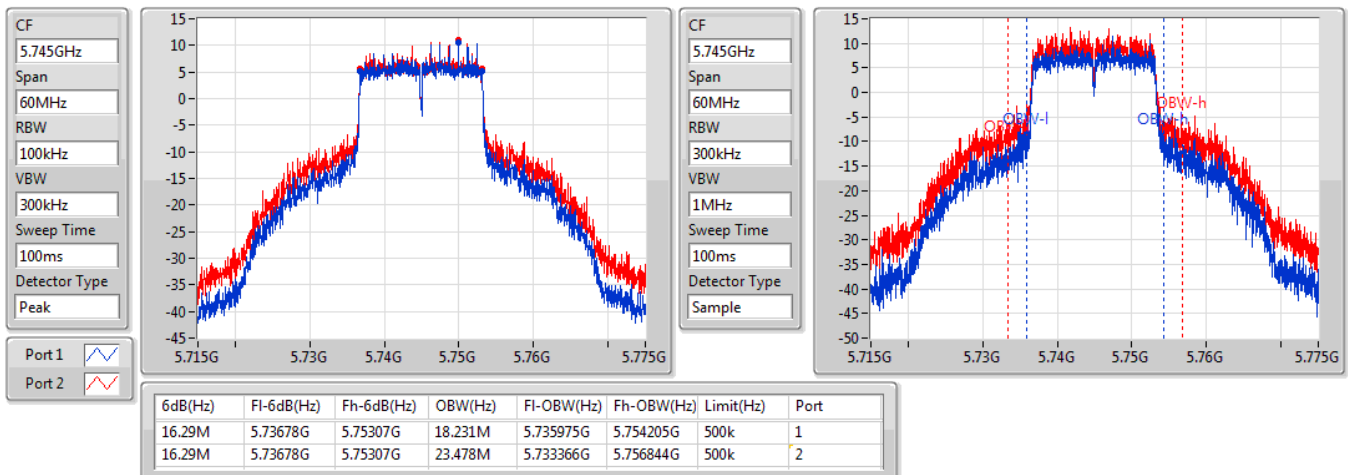


802.11a_Nss1,(6Mbps)_2TX

EBW

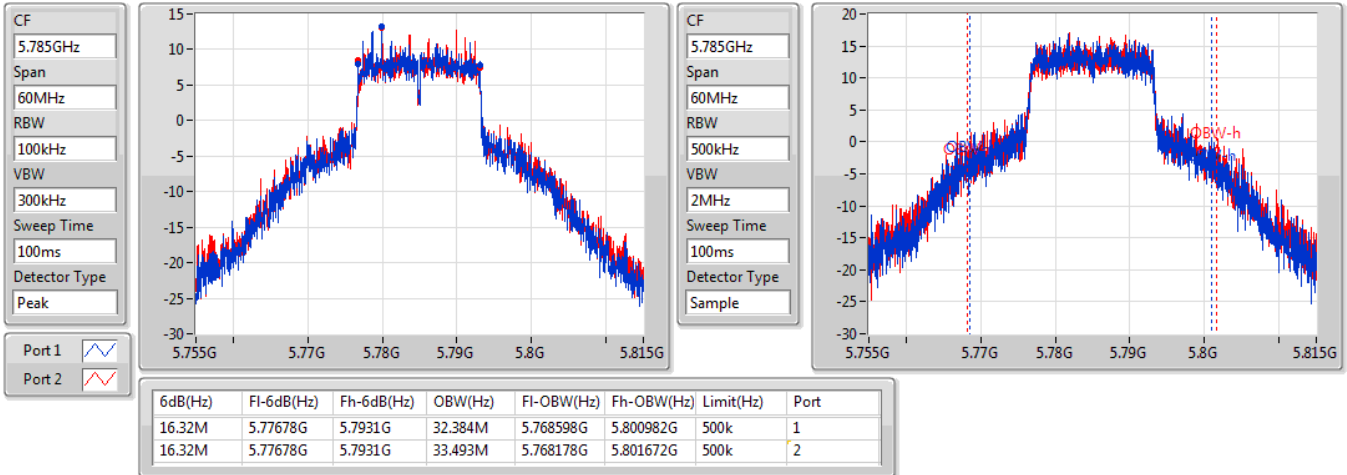
5745MHz

05/11/2019

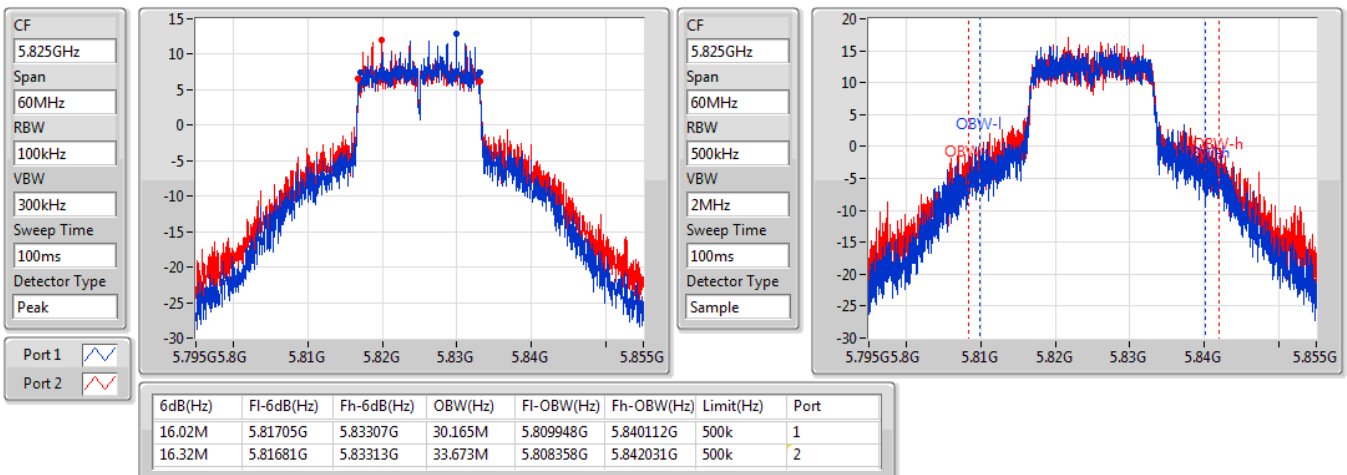


802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

05/11/2019

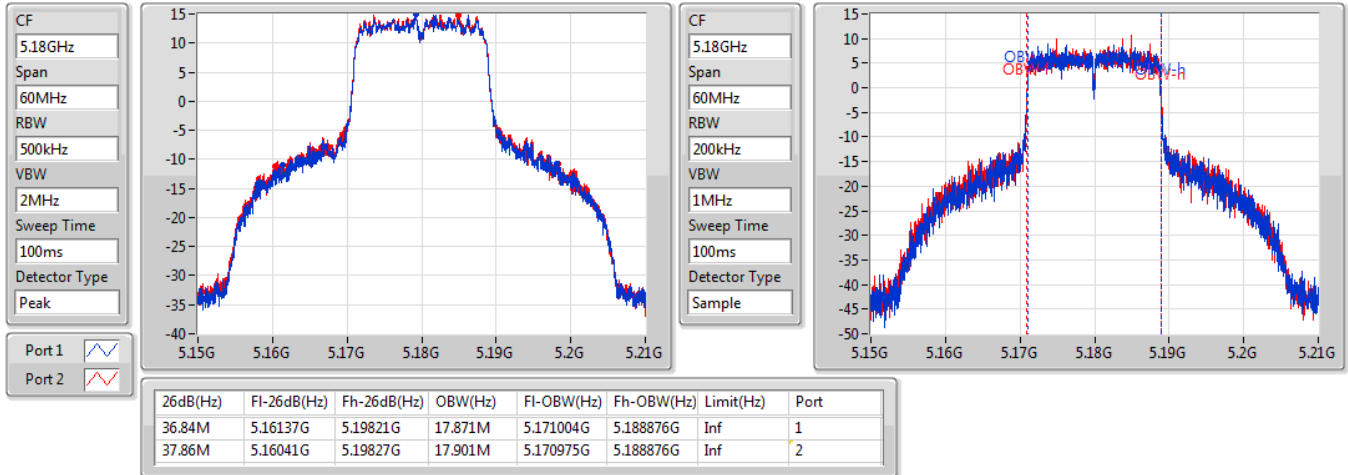

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

05/11/2019

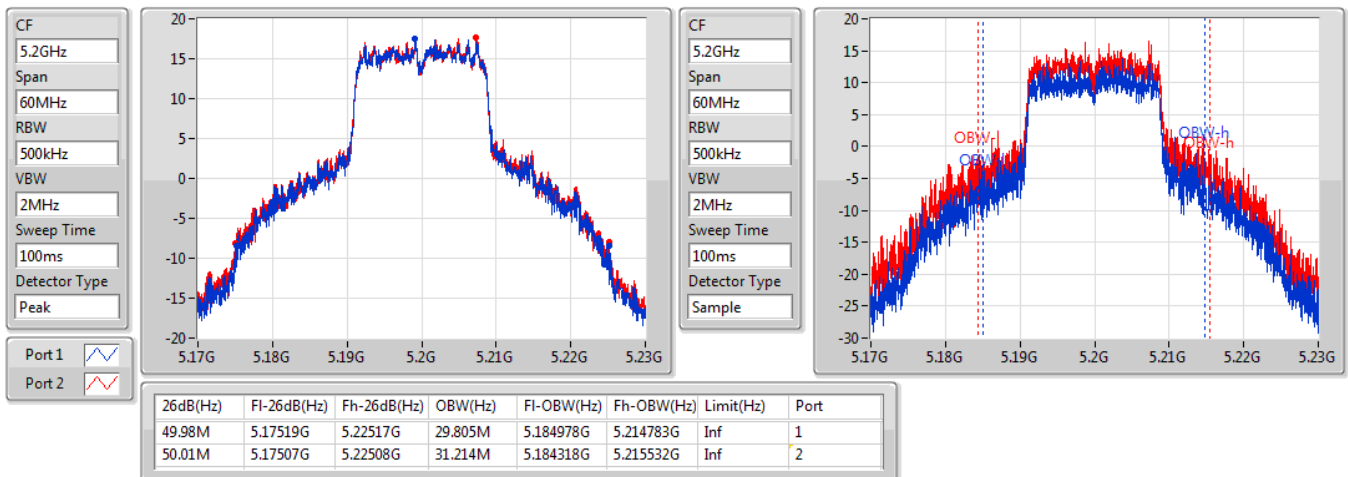


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5180MHz

05/11/2019

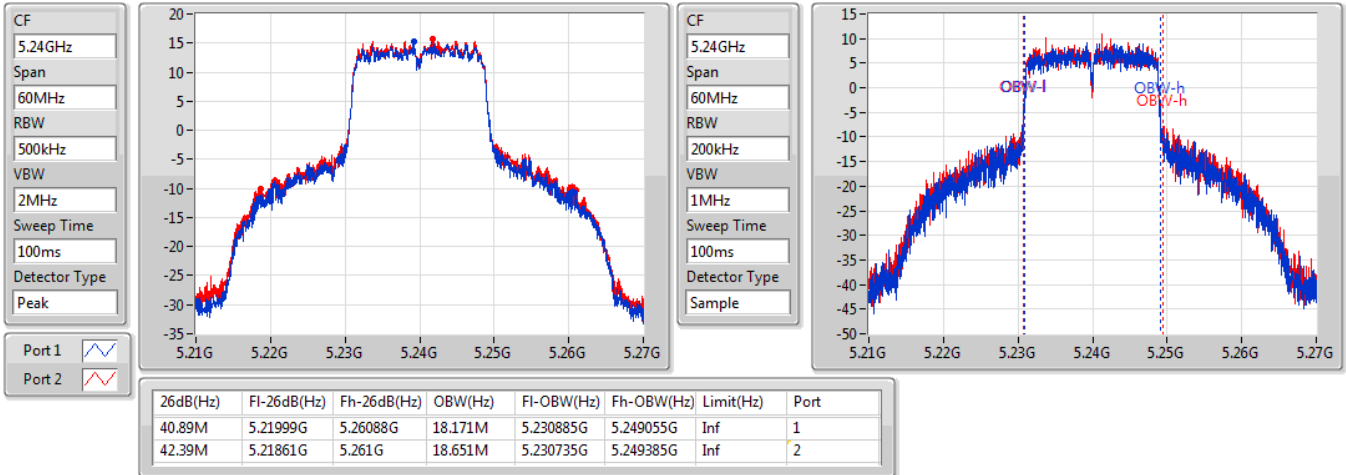

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5200MHz

05/11/2019

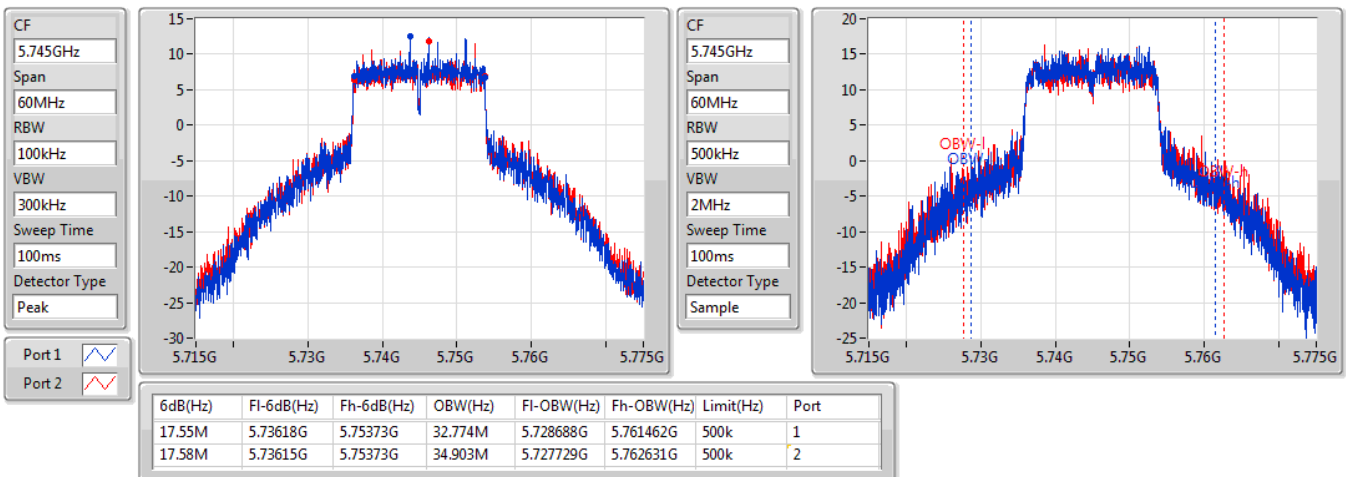


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5240MHz

05/11/2019

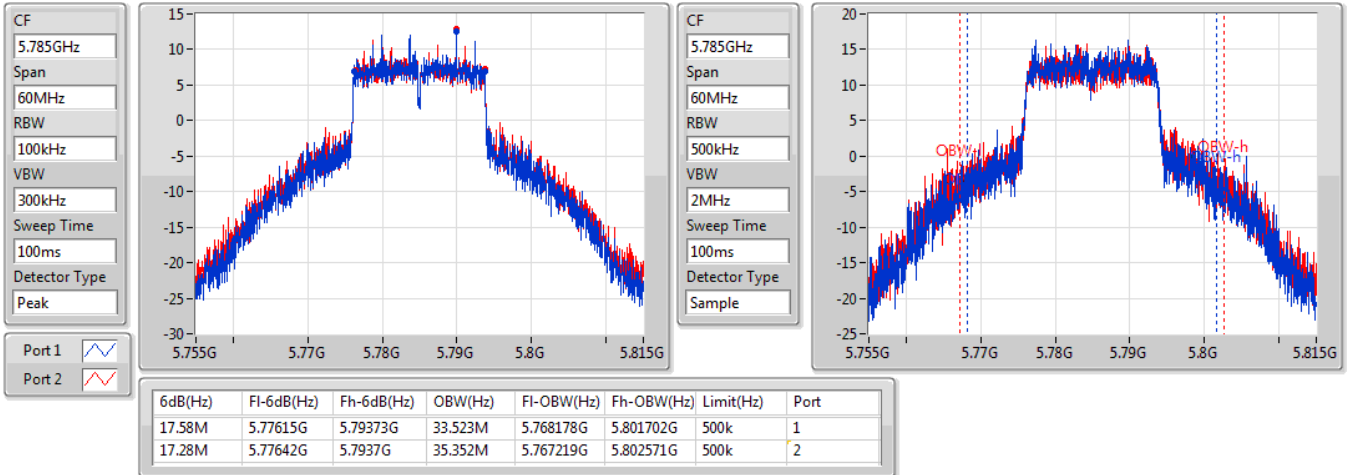

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

05/11/2019

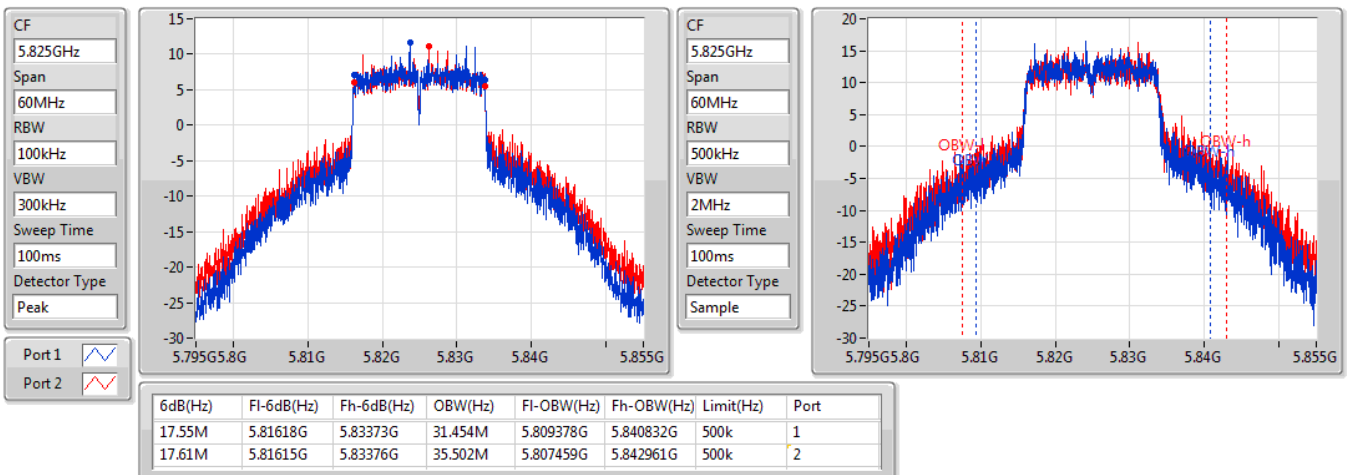


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5785MHz

05/11/2019

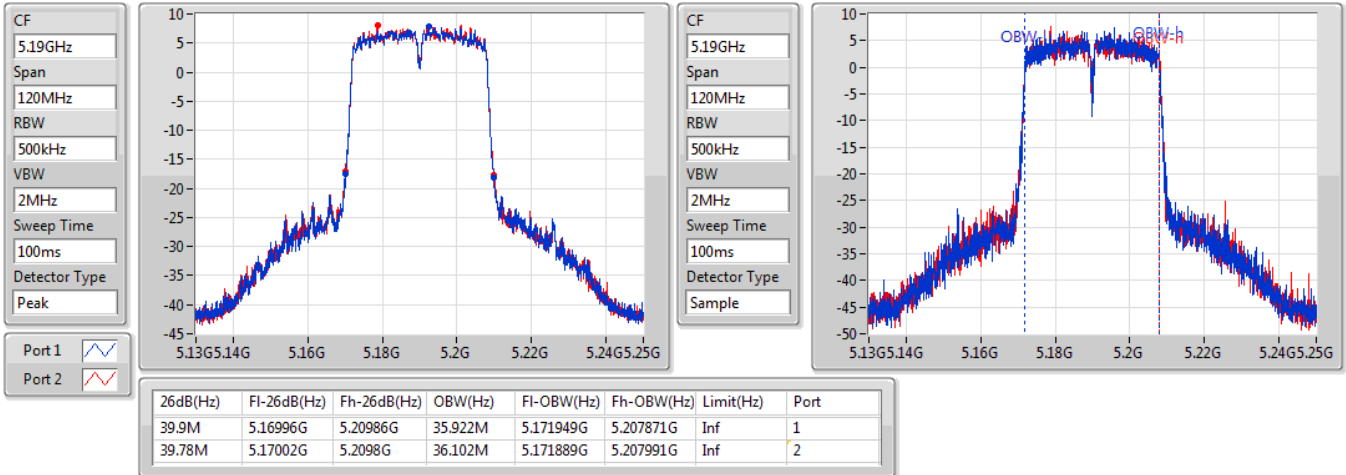

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5825MHz

05/11/2019

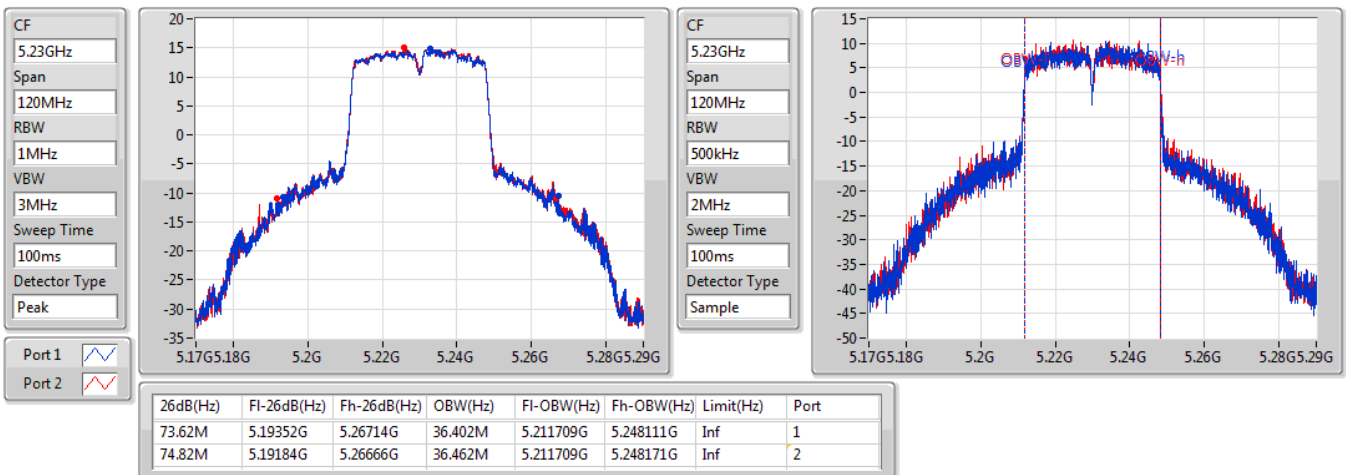


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5190MHz

05/11/2019


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5230MHz

05/11/2019

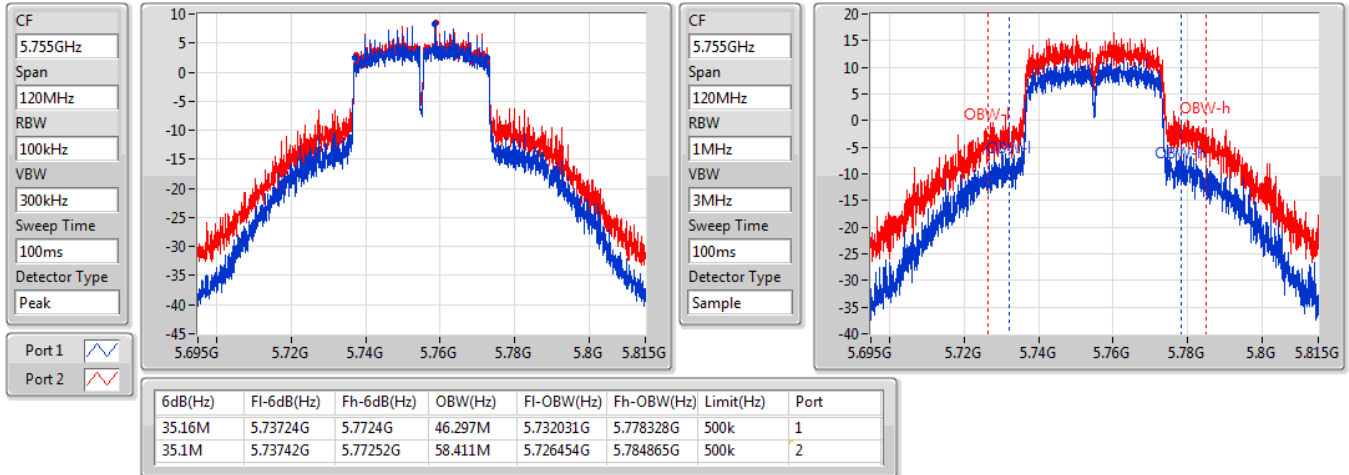


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

05/11/2019

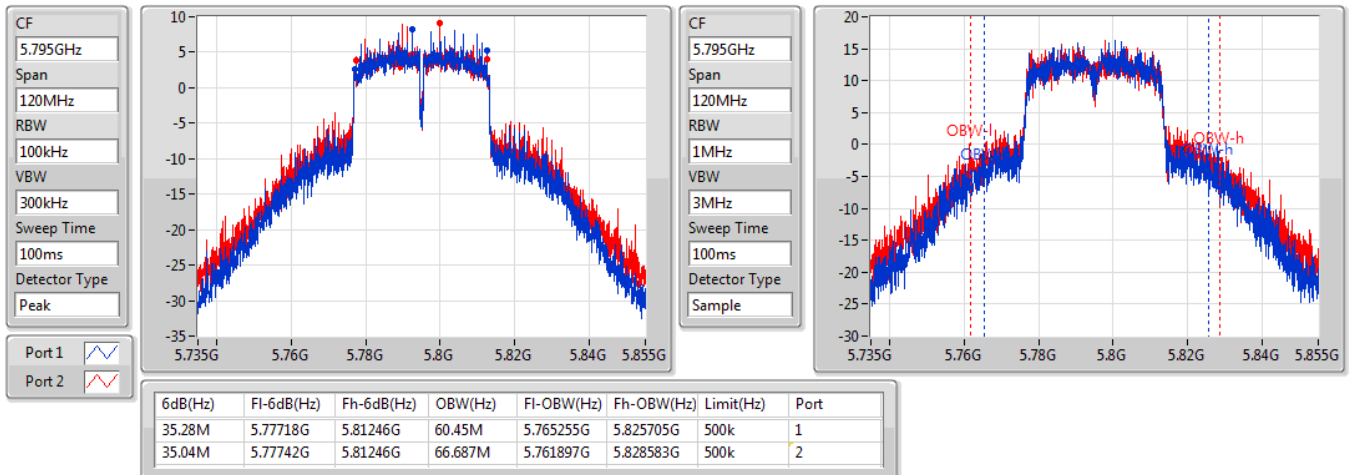


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

05/11/2019

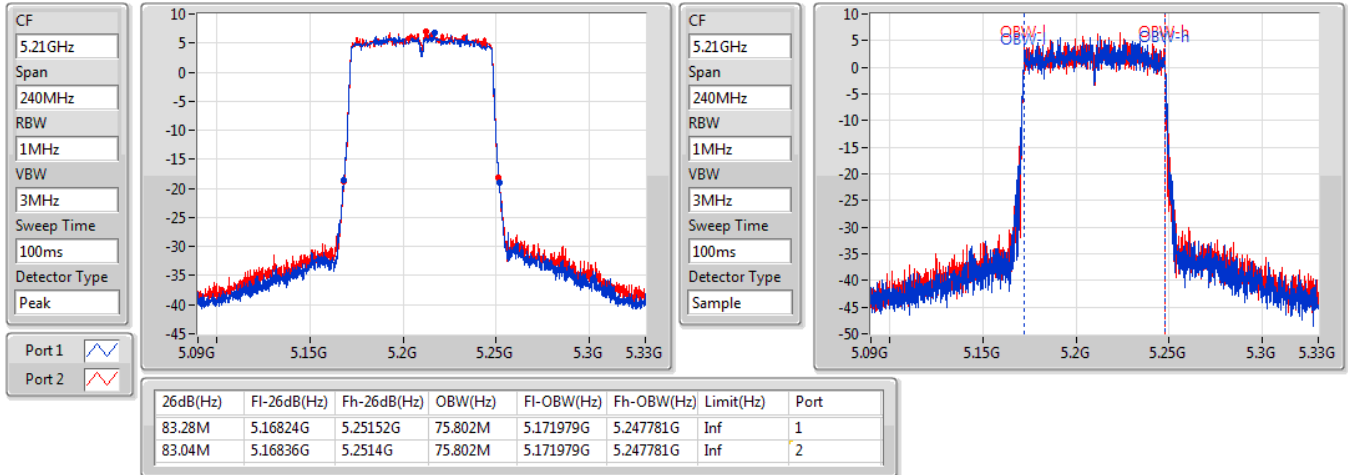


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

05/11/2019

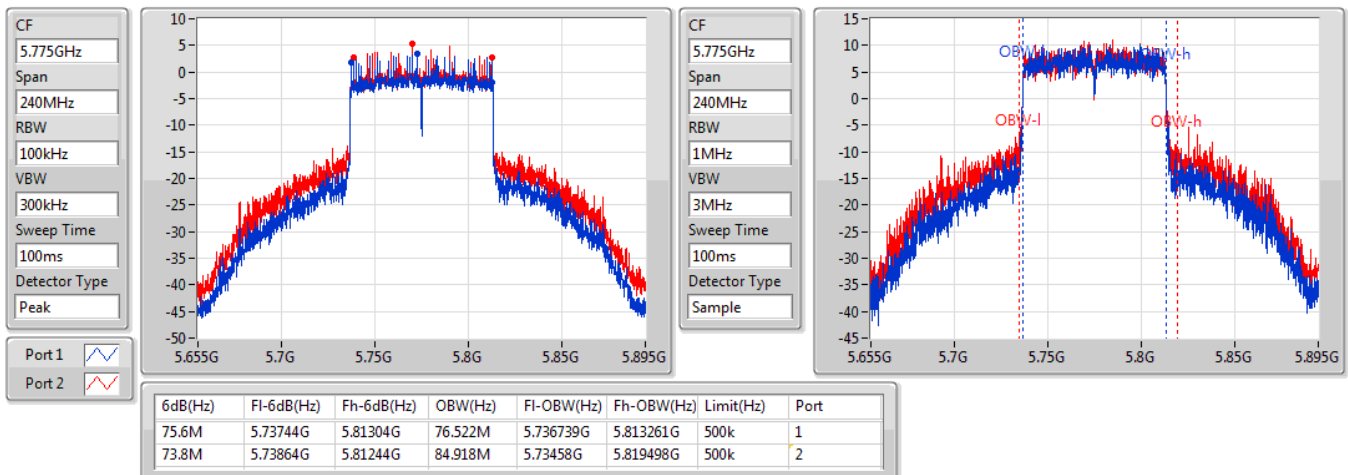


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

05/11/2019



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	39.51M	18.471M	18M5D1D	36.24M	17.991M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	70.44M	36.522M	36M5D1D	38.76M	35.922M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	81.12M	76.162M	76M2D1D	81.12M	75.682M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	17.58M	19.22M	19M2D1D	17.25M	18.081M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	35.1M	36.702M	36M7D1D	32.58M	36.462M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	72.96M	76.522M	76M5D1D	14.88M	76.162M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

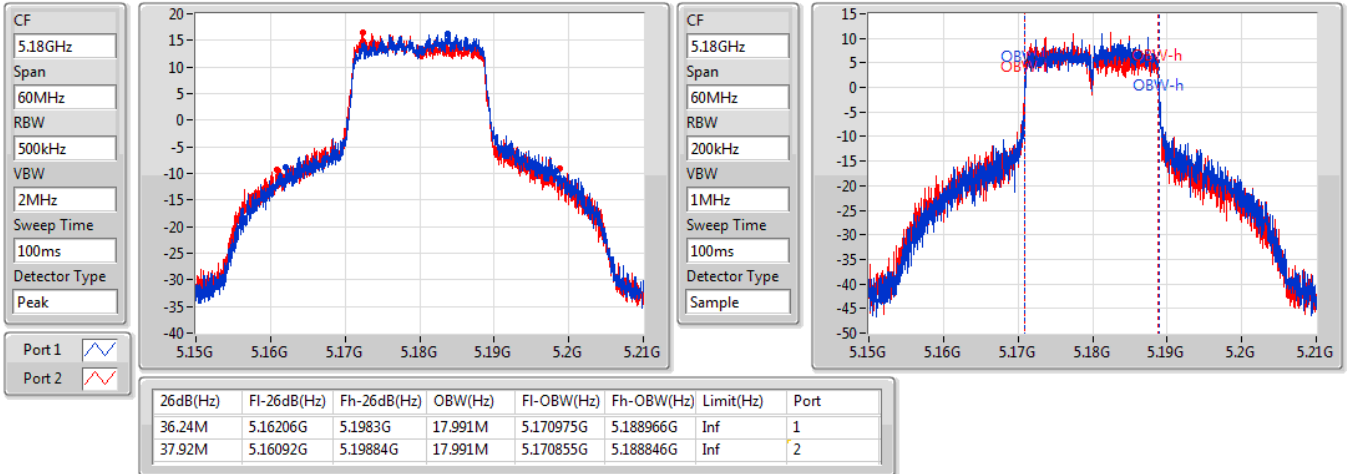
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	36.24M	17.991M	37.92M	17.991M
5200MHz	Pass	Inf	38.55M	17.991M	37.71M	18.081M
5240MHz	Pass	Inf	39.51M	18.111M	39.36M	18.471M
5745MHz	Pass	500k	17.58M	18.741M	17.58M	18.681M
5785MHz	Pass	500k	17.52M	18.081M	17.49M	18.111M
5825MHz	Pass	500k	17.25M	19.07M	17.55M	19.22M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.3M	35.922M	38.76M	35.922M
5230MHz	Pass	Inf	69.72M	36.522M	70.44M	36.522M
5755MHz	Pass	500k	35.1M	36.702M	34.98M	36.642M
5795MHz	Pass	500k	34.92M	36.462M	32.58M	36.582M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.12M	75.682M	81.12M	76.162M
5775MHz	Pass	500k	14.88M	76.522M	72.96M	76.162M

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

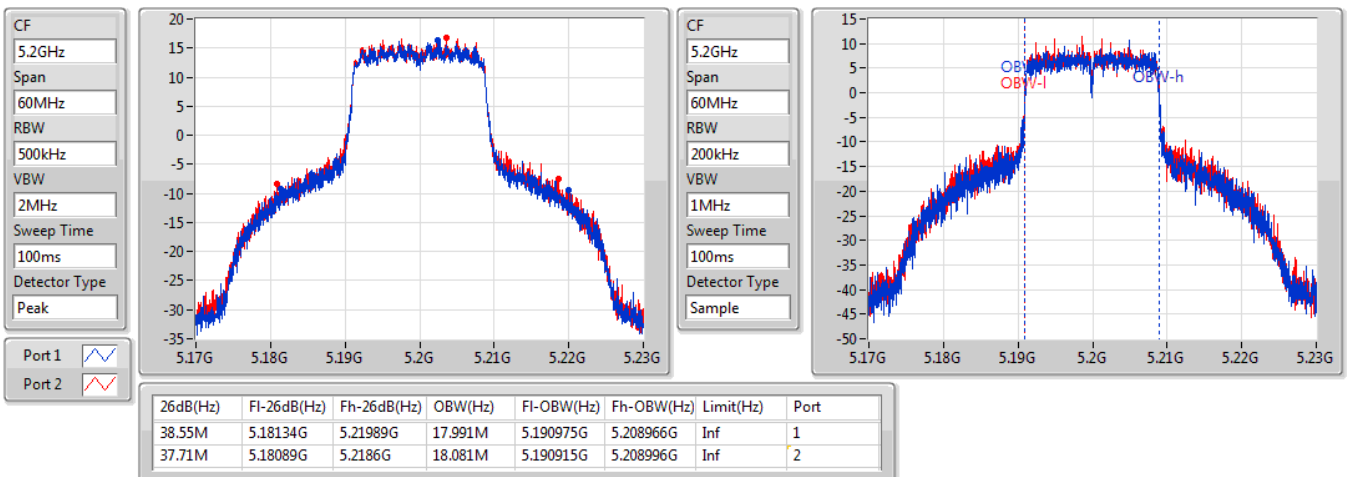
Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5180MHz

05/11/2019

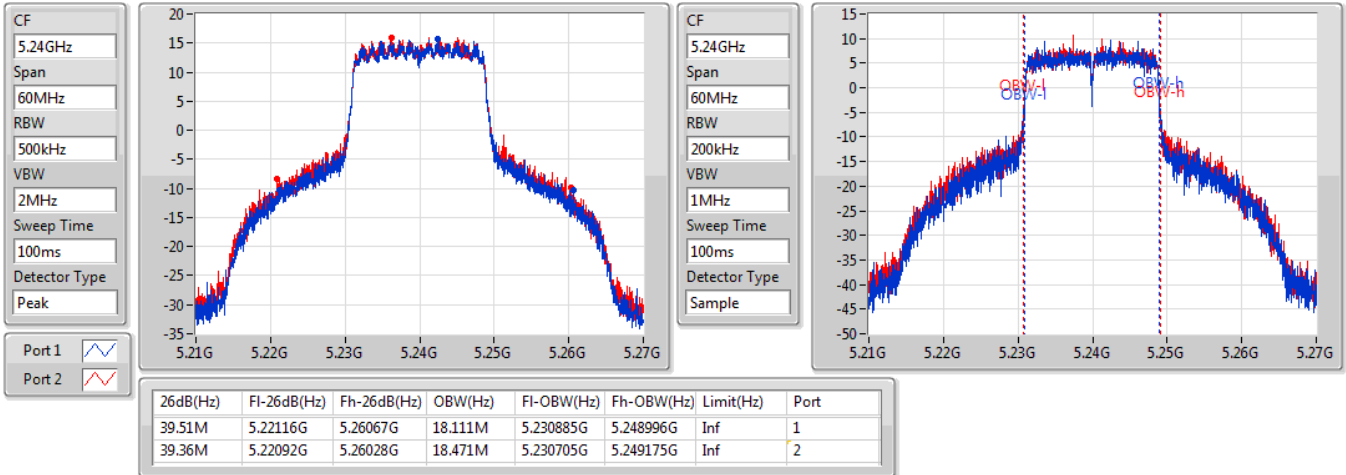

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5200MHz

05/11/2019

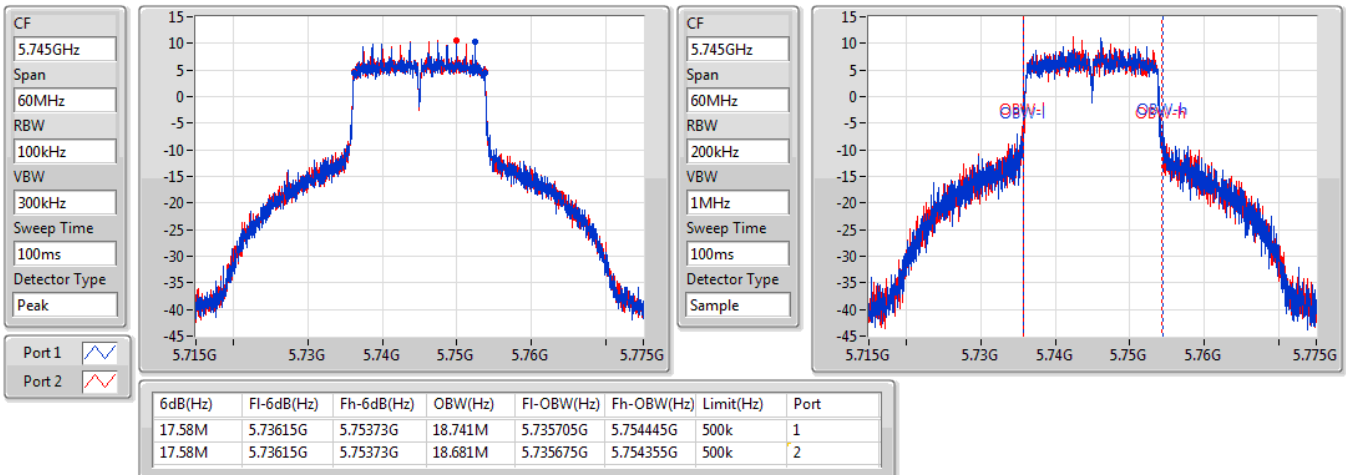


802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5240MHz

05/11/2019

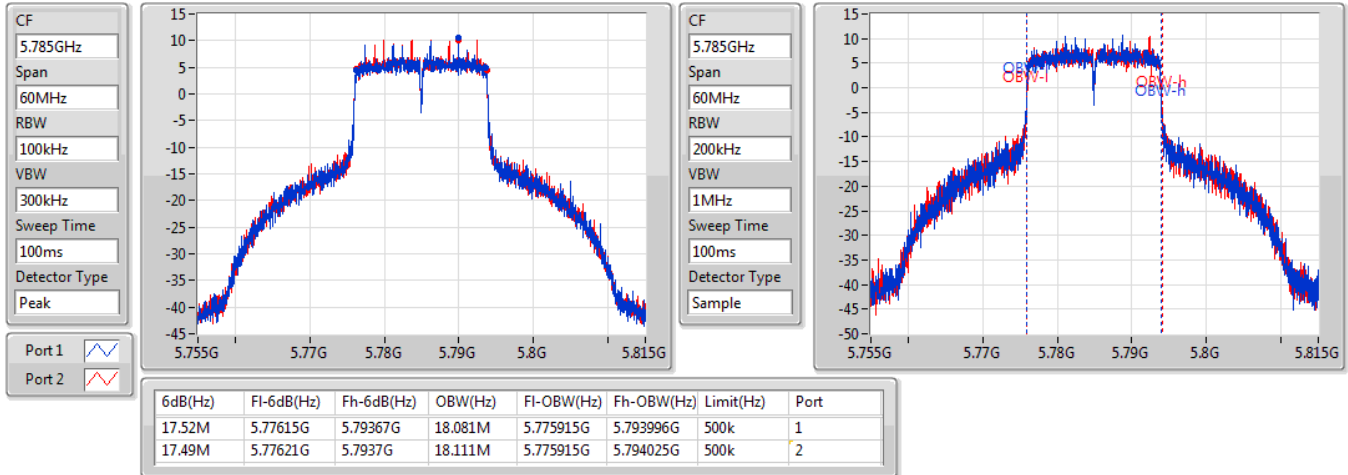

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5745MHz

05/11/2019

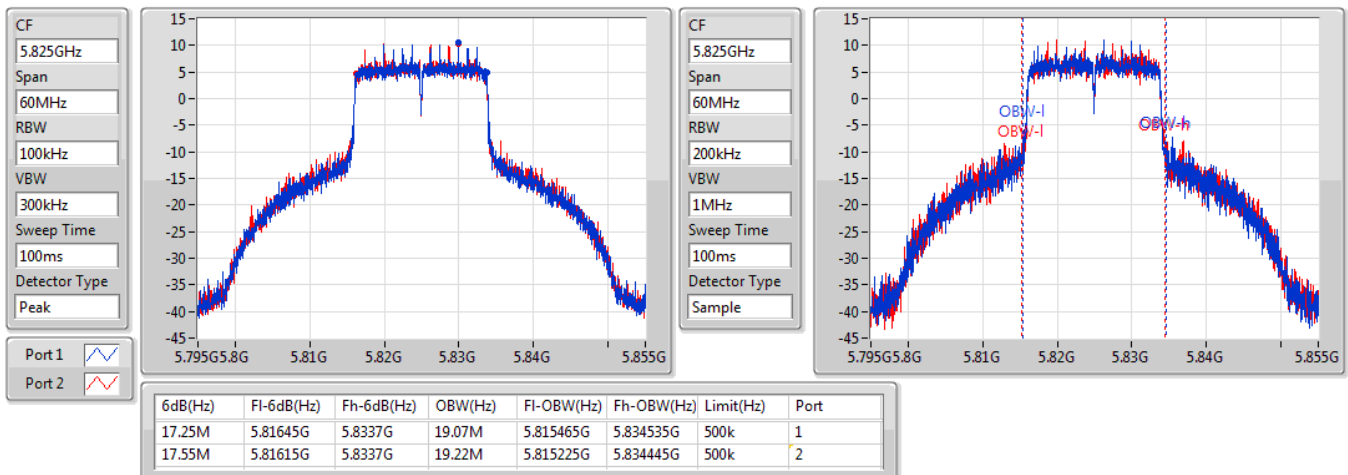


802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5785MHz

05/11/2019

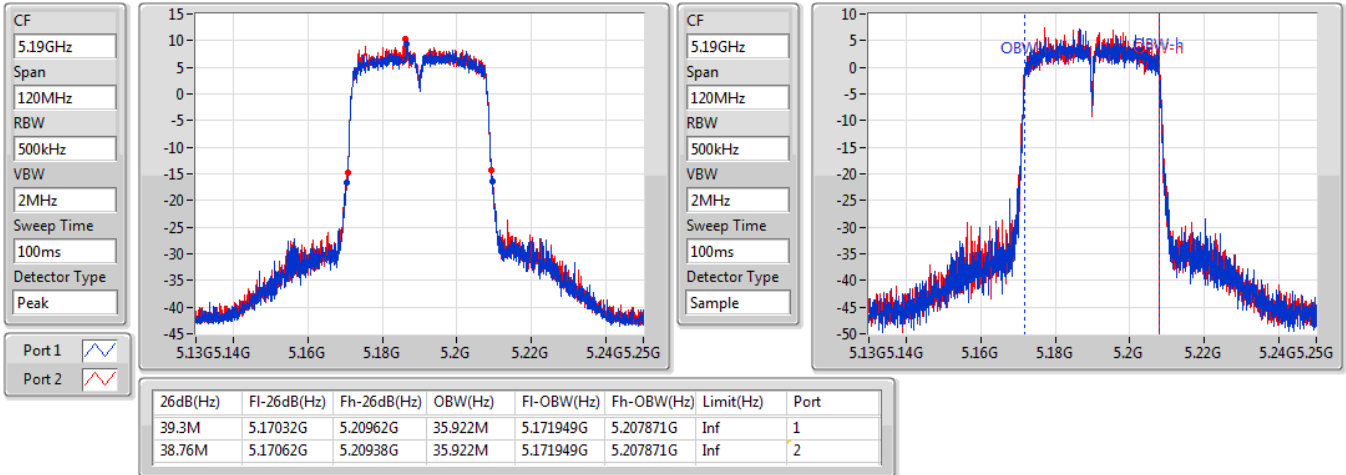

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5825MHz

05/11/2019

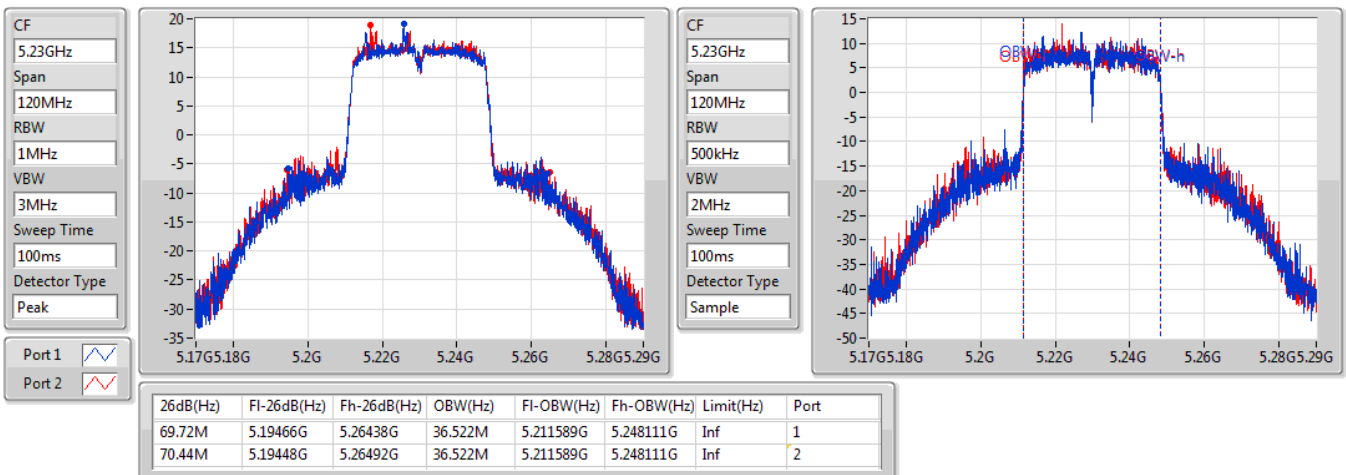


802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5190MHz

05/11/2019


802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5230MHz

05/11/2019

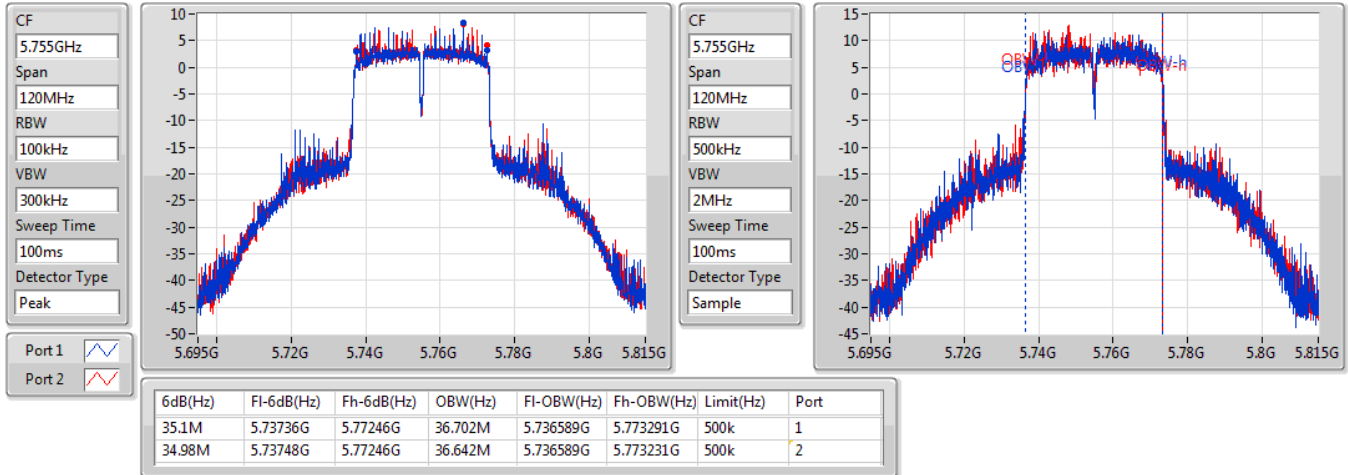


802.11ac VHT40-BF_Nss1,(MCS0)_2TX

EBW

5755MHz

05/11/2019

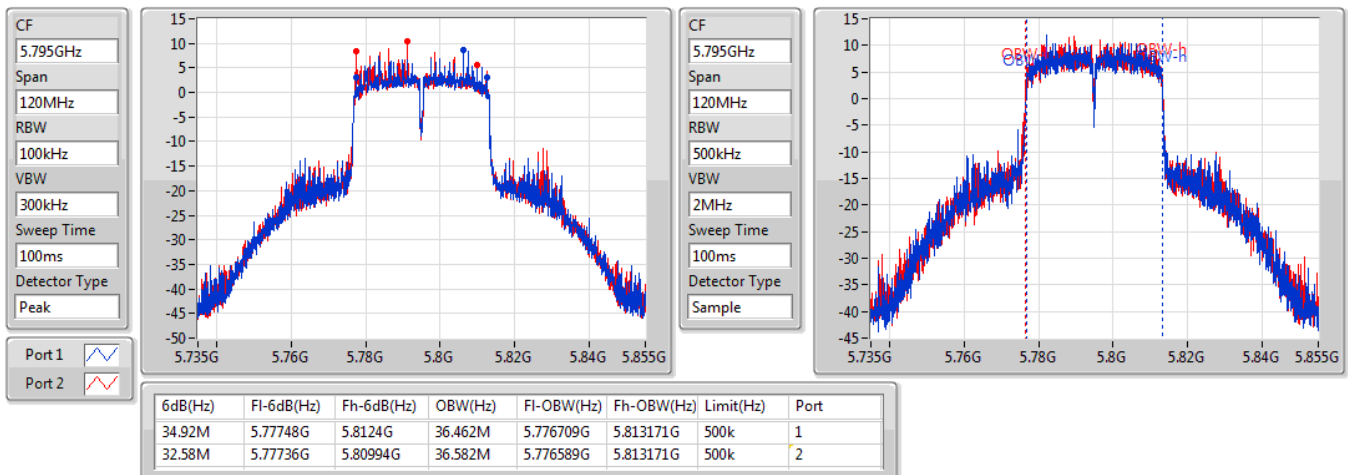


802.11ac VHT40-BF_Nss1,(MCS0)_2TX

EBW

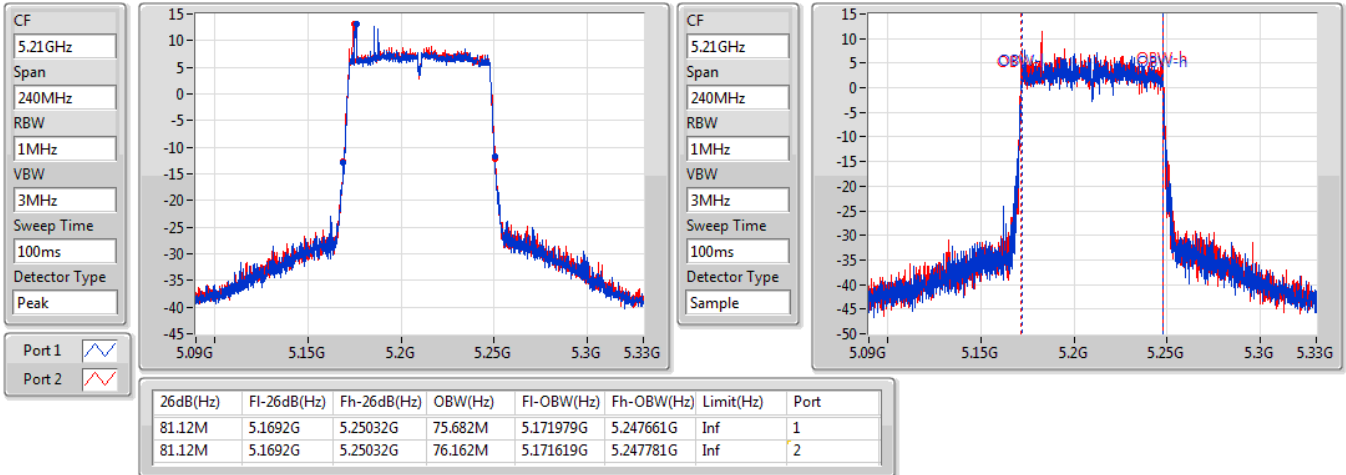
5795MHz

05/11/2019

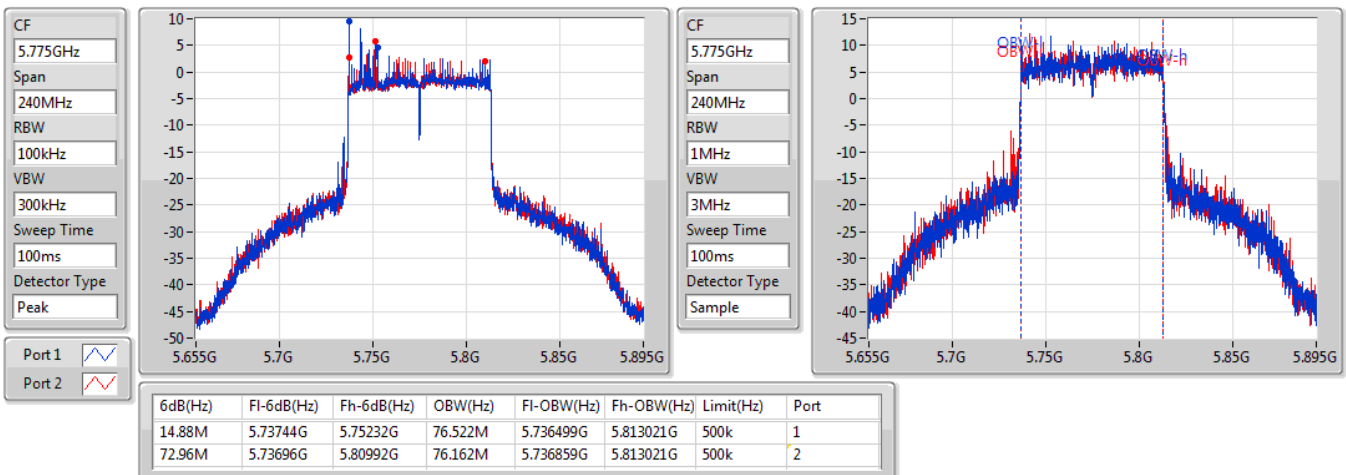


802.11ac VHT80-BF_Nss1,(MCS0)_2TX
EBW
5210MHz

05/11/2019


802.11ac VHT80-BF_Nss1,(MCS0)_2TX
EBW
5775MHz

05/11/2019





Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	27.02	0.50350
802.11ac VHT20_Nss1,(MCS0)_2TX	26.74	0.47206
802.11ac VHT40_Nss1,(MCS0)_2TX	24.62	0.28973
802.11ac VHT80_Nss1,(MCS0)_2TX	19.37	0.08650
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	26.99	0.50003
802.11ac VHT20_Nss1,(MCS0)_2TX	26.86	0.48529
802.11ac VHT40_Nss1,(MCS0)_2TX	26.42	0.43853
802.11ac VHT80_Nss1,(MCS0)_2TX	24.44	0.27797

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.94	21.40	21.57	24.50	30.00
5200MHz	Pass	5.94	24.02	23.99	27.02	30.00
5240MHz	Pass	5.94	22.32	22.50	25.42	30.00
5745MHz	Pass	5.94	22.09	22.52	25.32	30.00
5785MHz	Pass	5.94	24.06	23.90	26.99	30.00
5825MHz	Pass	5.94	23.56	23.46	26.52	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.94	21.43	21.49	24.47	30.00
5200MHz	Pass	5.94	23.67	23.78	26.74	30.00
5240MHz	Pass	5.94	21.84	22.20	25.03	30.00
5745MHz	Pass	5.94	23.93	23.76	26.86	30.00
5785MHz	Pass	5.94	23.78	23.68	26.74	30.00
5825MHz	Pass	5.94	23.41	23.40	26.42	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.94	18.09	17.99	21.05	30.00
5230MHz	Pass	5.94	21.53	21.69	24.62	30.00
5755MHz	Pass	5.94	22.89	23.36	26.14	30.00
5795MHz	Pass	5.94	23.37	23.45	26.42	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.94	16.18	16.53	19.37	30.00
5775MHz	Pass	5.94	21.18	21.67	24.44	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	24.91	0.30974
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	24.27	0.26730
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	20.42	0.11015
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	25.09	0.32285
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	24.67	0.29309
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	23.85	0.24266

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.66	21.86	21.93	24.91	27.34
5200MHz	Pass	8.66	21.58	21.80	24.70	27.34
5240MHz	Pass	8.66	21.56	21.82	24.70	27.34
5745MHz	Pass	8.66	22.01	22.15	25.09	27.34
5785MHz	Pass	8.66	21.87	21.92	24.91	27.34
5825MHz	Pass	8.66	21.91	21.57	24.75	27.34
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.66	17.08	17.42	20.26	27.34
5230MHz	Pass	8.66	21.01	21.49	24.27	27.34
5755MHz	Pass	8.66	21.59	21.73	24.67	27.34
5795MHz	Pass	8.66	20.83	21.42	24.15	27.34
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.66	17.37	17.44	20.42	27.34
5775MHz	Pass	8.66	20.78	20.90	23.85	27.34

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	13.31
802.11ac VHT20_Nss1,(MCS0)_2TX	12.64
802.11ac VHT40_Nss1,(MCS0)_2TX	7.83
802.11ac VHT80_Nss1,(MCS0)_2TX	-0.62
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	11.67
802.11ac VHT20_Nss1,(MCS0)_2TX	11.18
802.11ac VHT40_Nss1,(MCS0)_2TX	7.94
802.11ac VHT80_Nss1,(MCS0)_2TX	3.14

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.66	7.91	7.83	10.80	14.34
5200MHz	Pass	8.66	10.30	10.43	13.31	14.34
5240MHz	Pass	8.66	8.60	8.75	11.64	14.34
5745MHz	Pass	8.66	7.03	7.42	10.19	27.34
5785MHz	Pass	8.66	8.81	8.64	11.67	27.34
5825MHz	Pass	8.66	8.34	8.33	11.34	27.34
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.66	7.52	7.48	10.46	14.34
5200MHz	Pass	8.66	9.69	9.65	12.64	14.34
5240MHz	Pass	8.66	7.86	8.11	10.96	14.34
5745MHz	Pass	8.66	8.36	8.13	11.18	27.34
5785MHz	Pass	8.66	8.09	8.01	11.02	27.34
5825MHz	Pass	8.66	7.75	7.70	10.66	27.34
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.66	1.45	1.28	4.36	14.34
5230MHz	Pass	8.66	4.80	4.89	7.83	14.34
5755MHz	Pass	8.66	4.63	5.15	7.88	27.34
5795MHz	Pass	8.66	4.98	5.18	7.94	27.34
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.66	-3.57	-3.55	-0.62	14.34
5775MHz	Pass	8.66	-0.07	0.35	3.14	27.34

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

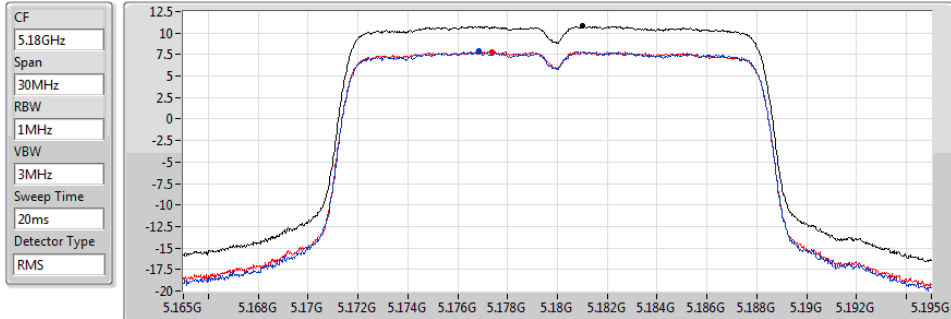
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX

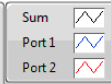
PSD

5180MHz

05/11/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.80	10.80	7.91	7.83

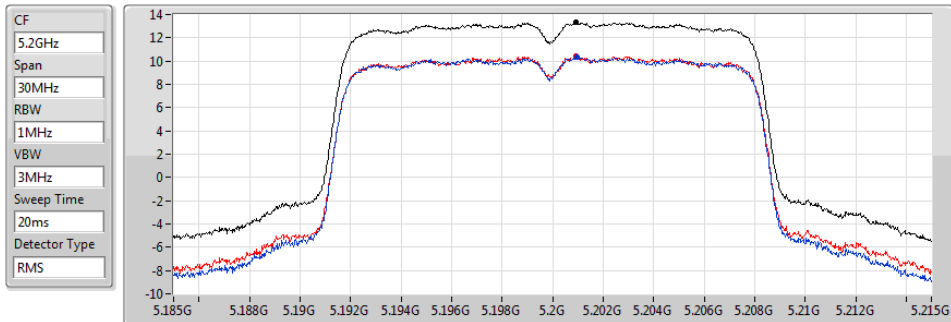


802.11a_Nss1,(6Mbps)_2TX

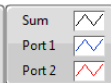
PSD

5200MHz

05/11/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.31	13.31	10.30	10.43

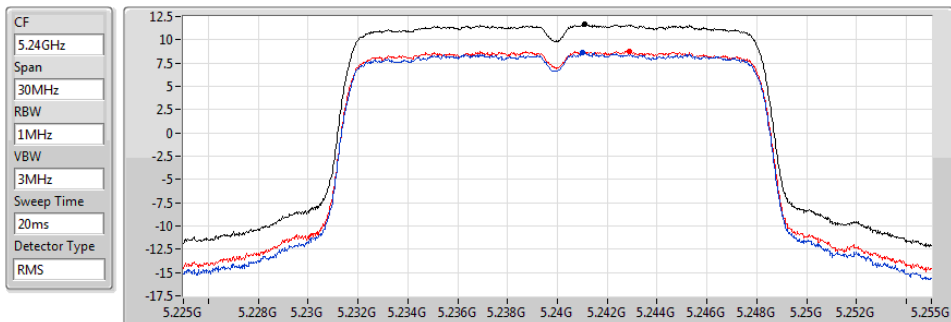


802.11a_Nss1,(6Mbps)_2TX

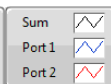
PSD

5240MHz

05/11/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.64	11.64	8.60	8.75

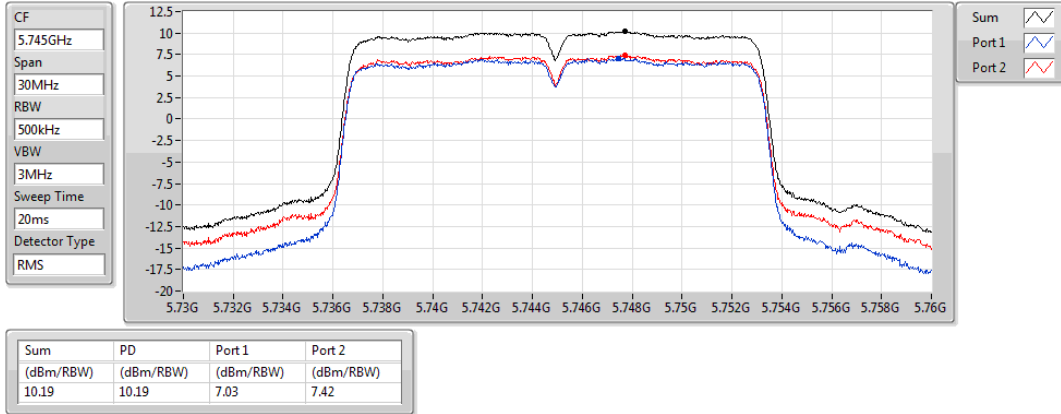


802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

05/11/2019

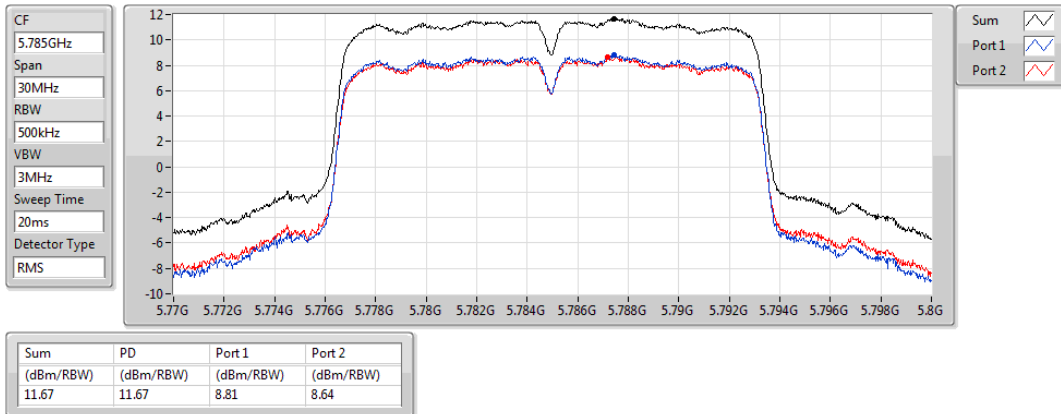


802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

05/11/2019

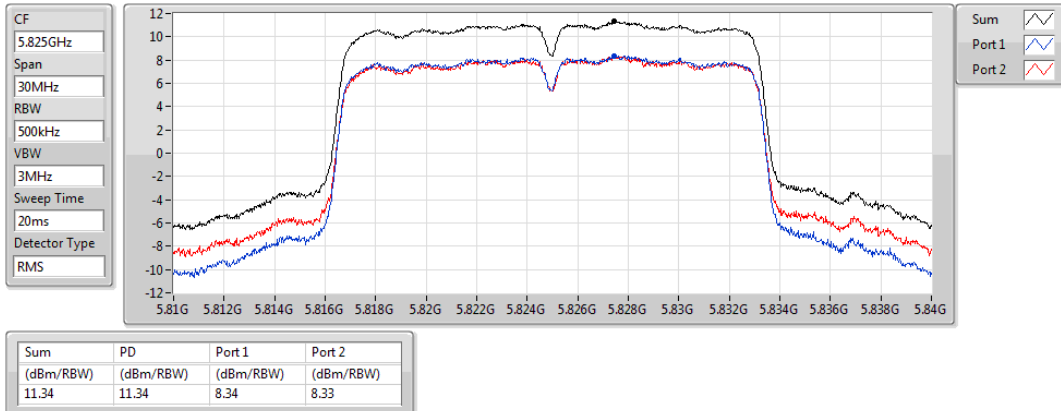


802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

05/11/2019

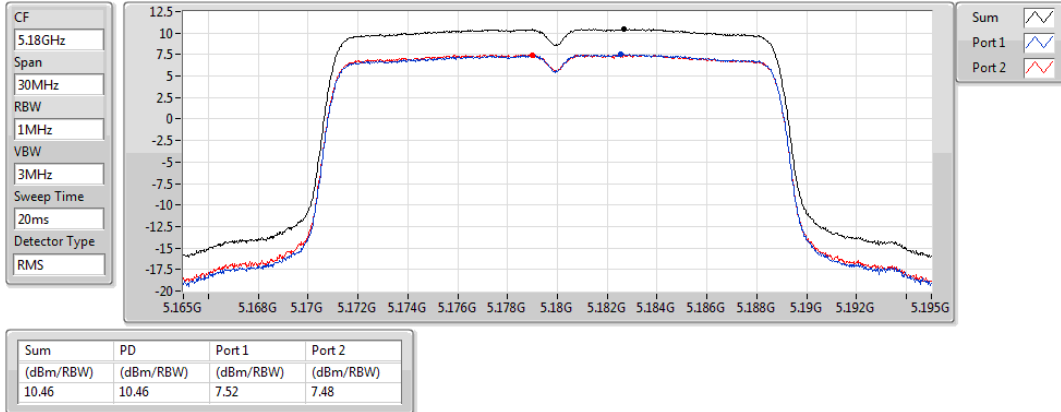


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5180MHz

05/11/2019

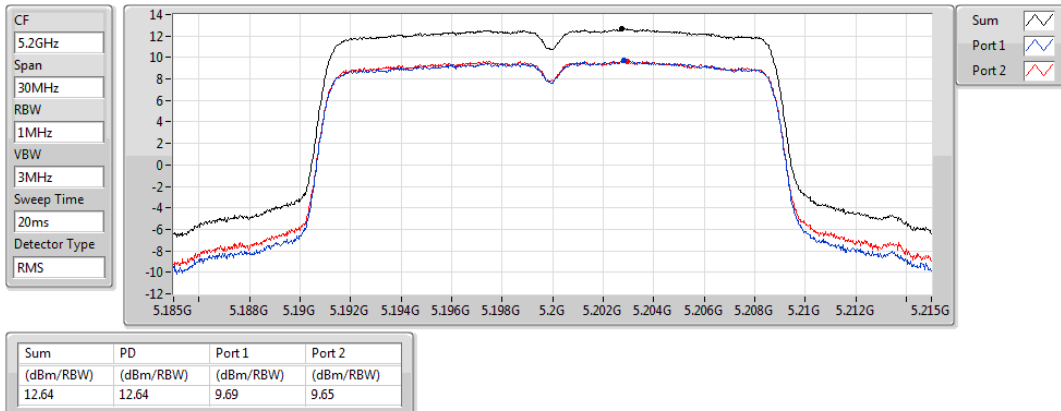


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5200MHz

05/11/2019

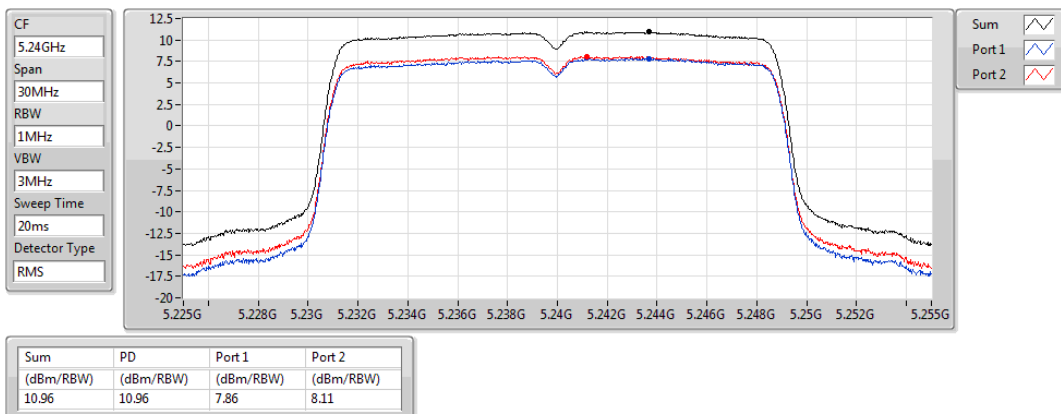


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5240MHz

05/11/2019

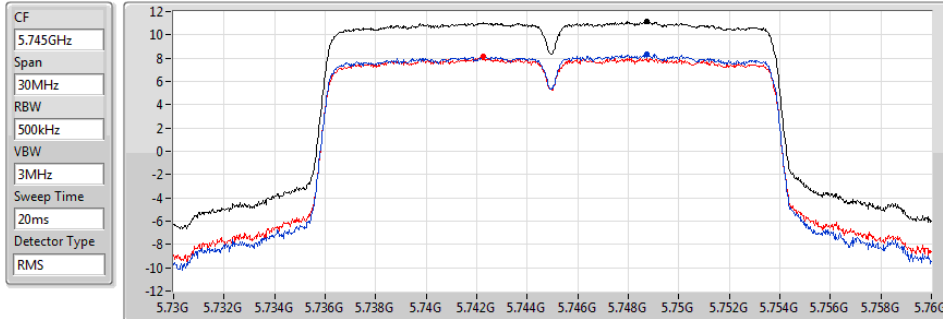


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5745MHz

05/11/2019



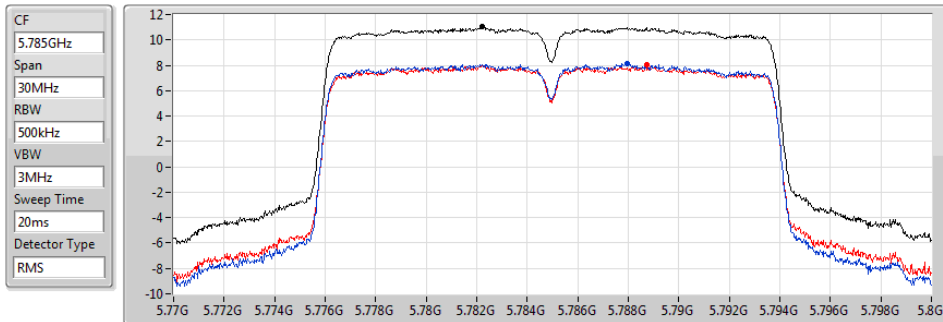
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.18	11.18	8.36	8.13

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5785MHz

05/11/2019



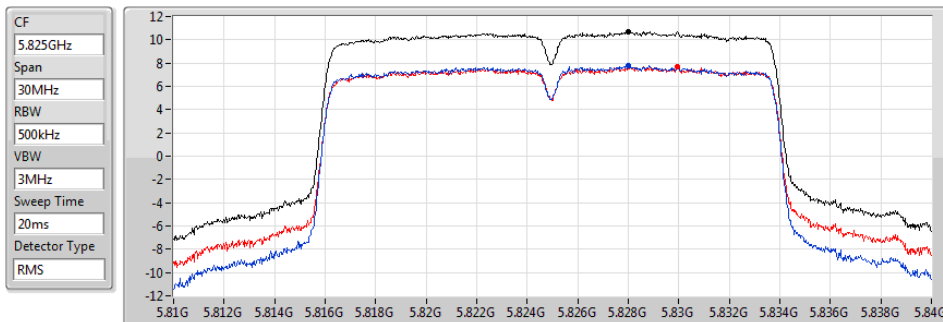
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.02	11.02	8.09	8.01

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

05/11/2019



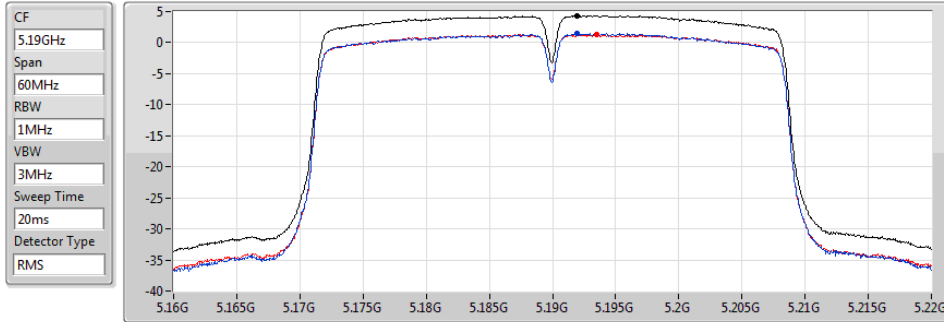
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.66	10.66	7.75	7.70

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5190MHz

05/11/2019



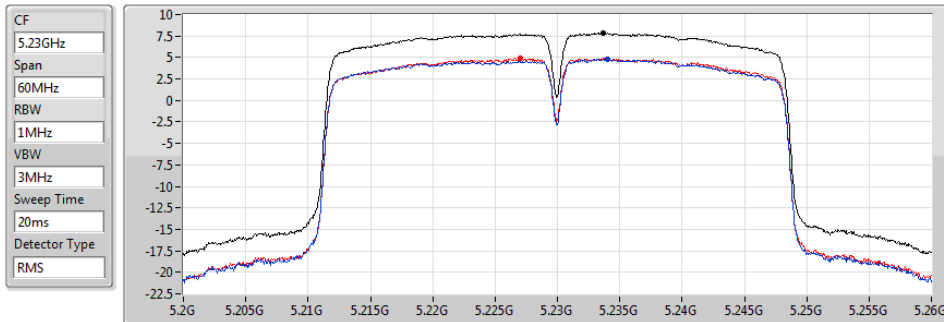
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.36	4.36	1.45	1.28

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5230MHz

05/11/2019



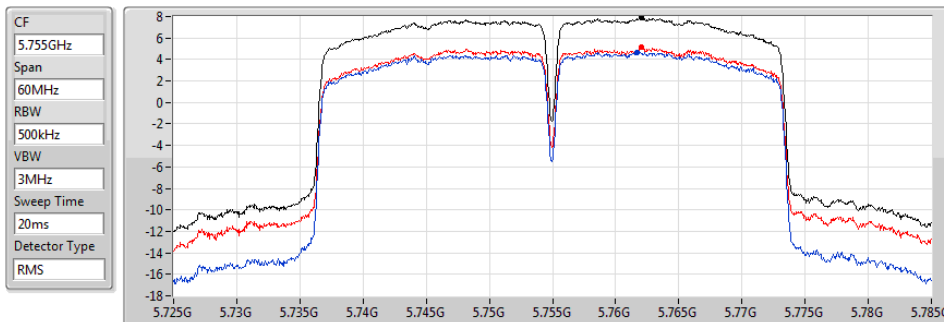
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.83	7.83	4.80	4.89

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

05/11/2019



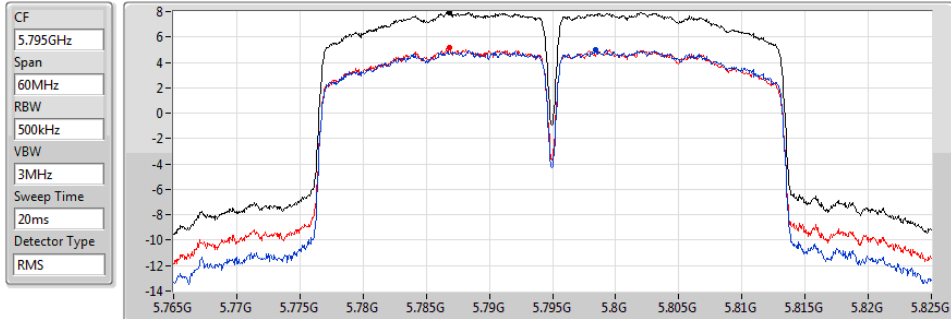
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.88	7.88	4.63	5.15

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

05/11/2019

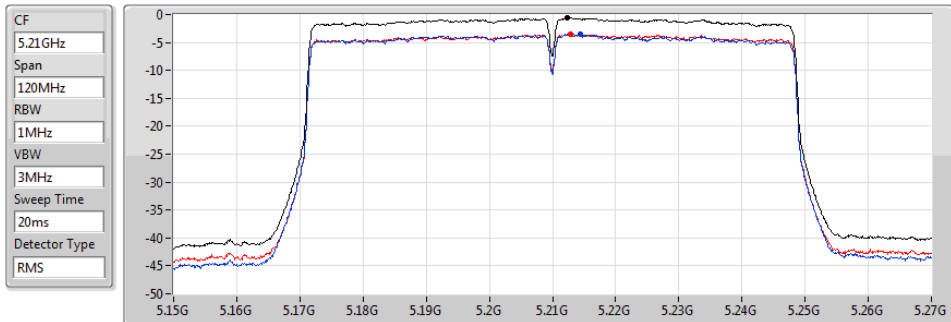


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

05/11/2019

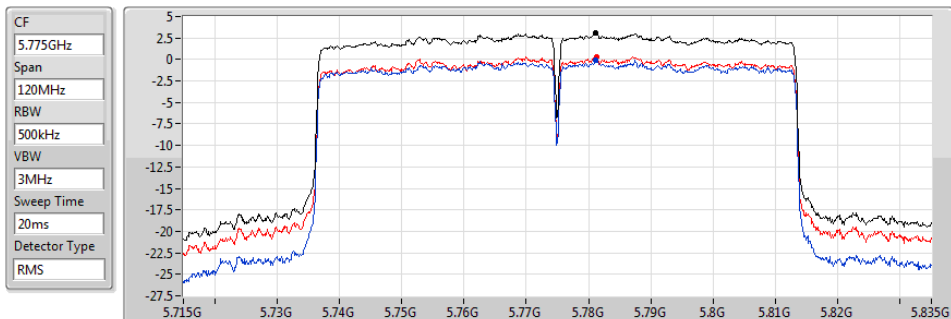


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

05/11/2019



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	11.48
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	7.99
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	0.05
5.725-5.85GHz	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	9.53
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	6.48
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	1.91

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.66	8.44	8.71	11.48	14.34
5200MHz	Pass	8.66	8.23	8.37	11.23	14.34
5240MHz	Pass	8.66	7.94	8.06	10.89	14.34
5745MHz	Pass	8.66	6.66	6.63	9.53	27.34
5785MHz	Pass	8.66	6.38	6.47	9.39	27.34
5825MHz	Pass	8.66	6.34	6.55	9.44	27.34
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.66	0.61	0.91	3.68	14.34
5230MHz	Pass	8.66	4.84	5.27	7.99	14.34
5755MHz	Pass	8.66	3.50	3.66	6.48	27.34
5795MHz	Pass	8.66	3.44	3.49	6.45	27.34
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.66	-2.81	-2.64	0.05	14.34
5775MHz	Pass	8.66	-1.21	-0.98	1.91	27.34

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

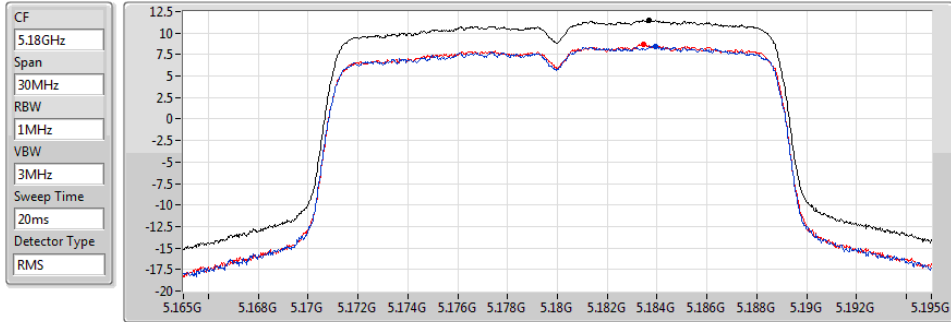
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5180MHz

05/11/2019



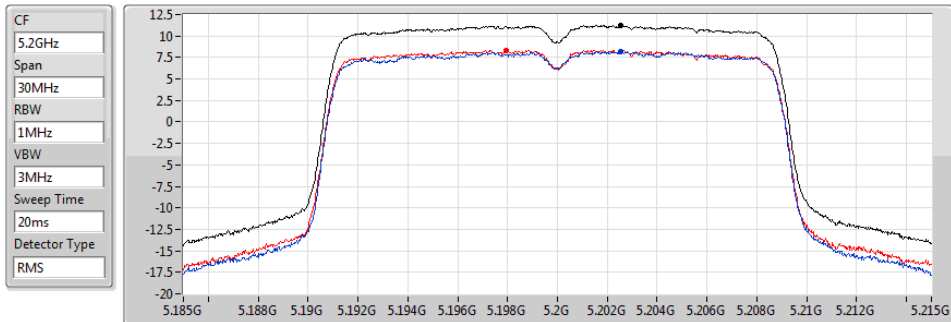
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.48	11.48	8.44	8.71

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5200MHz

05/11/2019



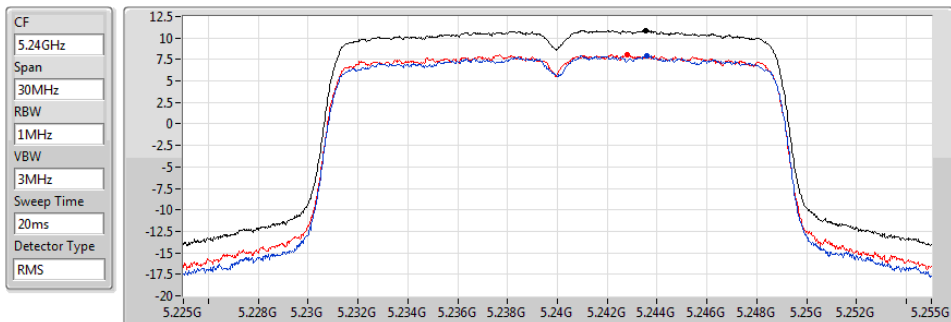
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.23	11.23	8.23	8.37

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5240MHz

05/11/2019



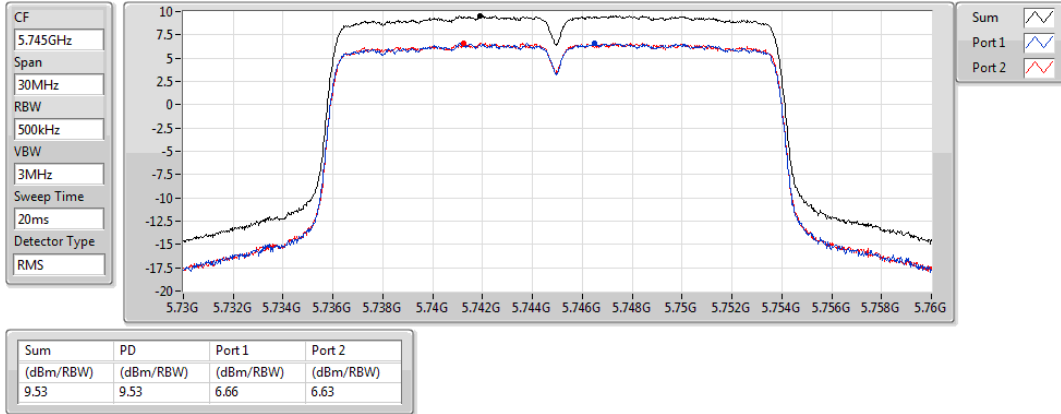
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.89	10.89	7.94	8.06

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5745MHz

05/11/2019

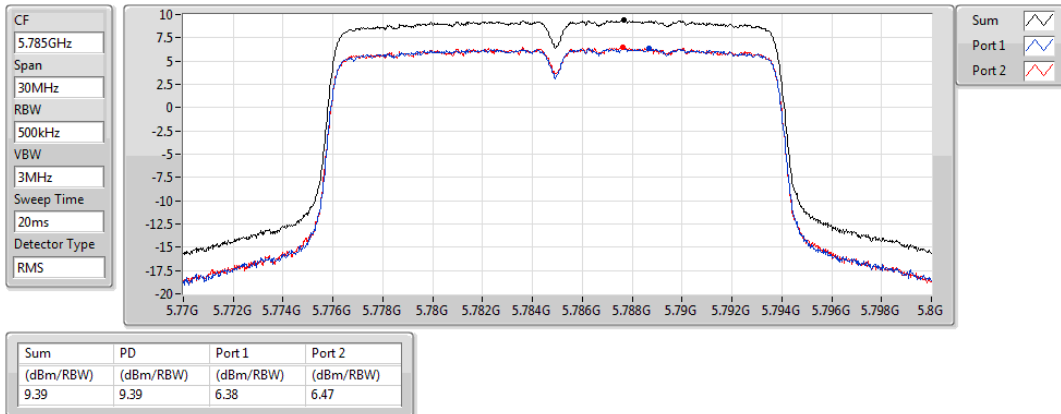


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5785MHz

05/11/2019

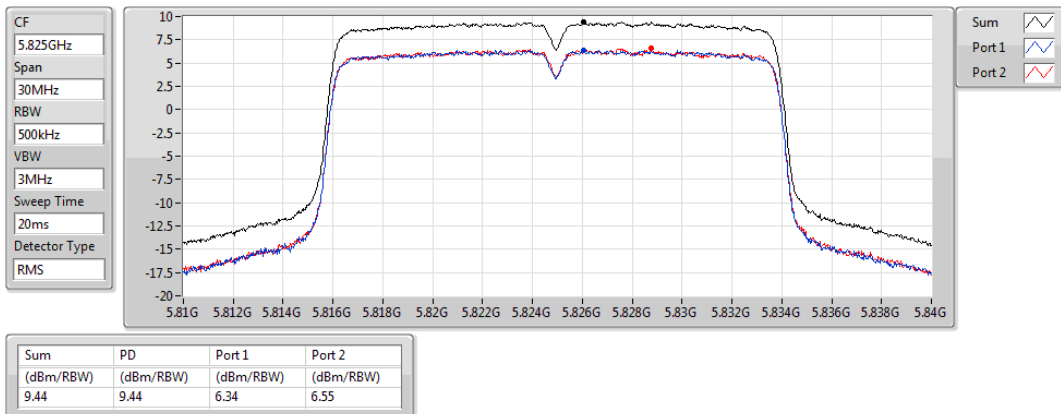


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5825MHz

05/11/2019

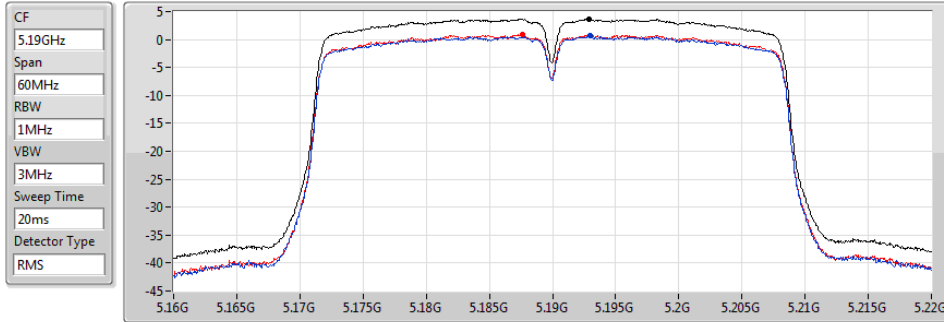


802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5190MHz

05/11/2019



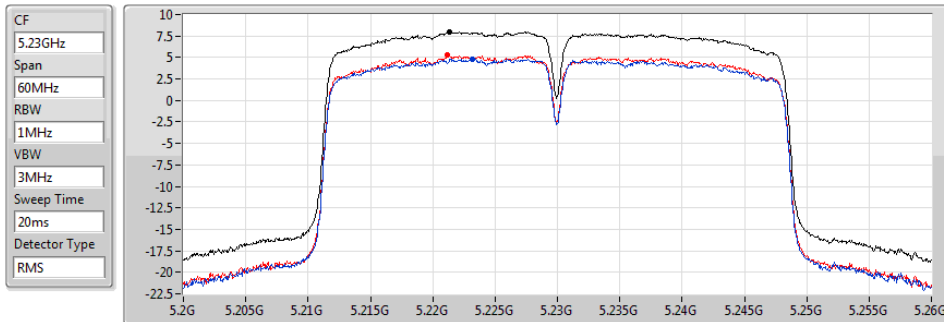
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.68	3.68	0.61	0.91

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5230MHz

05/11/2019



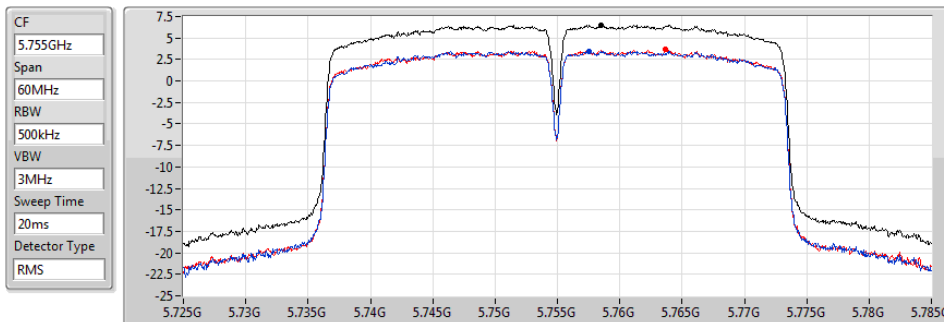
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.99	7.99	4.84	5.27

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5755MHz

05/11/2019



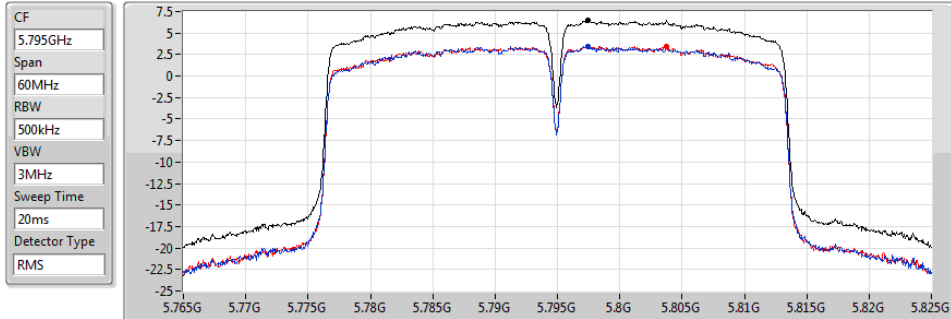
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.48	6.48	3.50	3.66

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5795MHz

05/11/2019

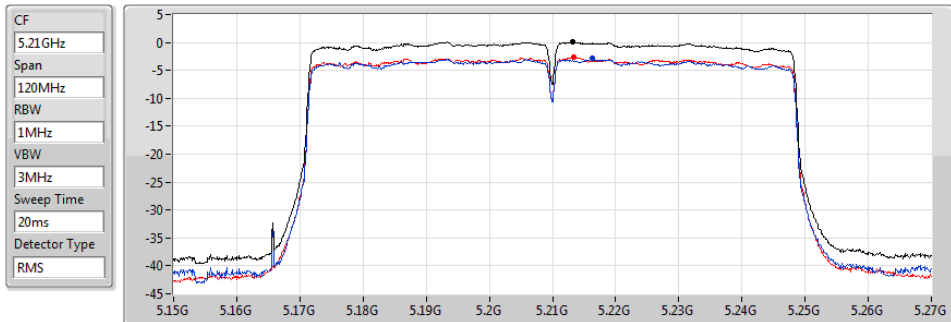


802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

5210MHz

05/11/2019

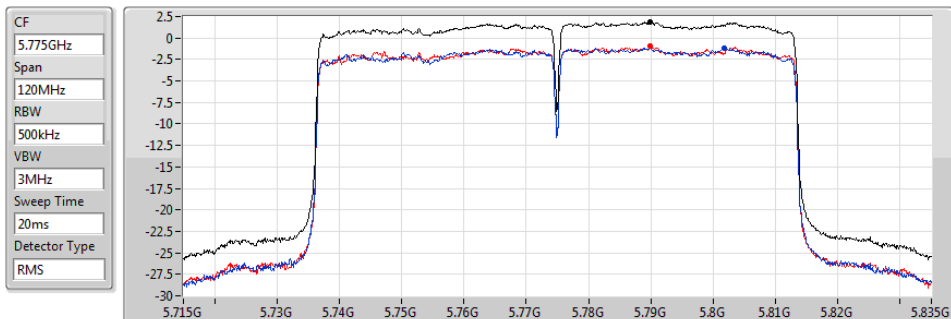


802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

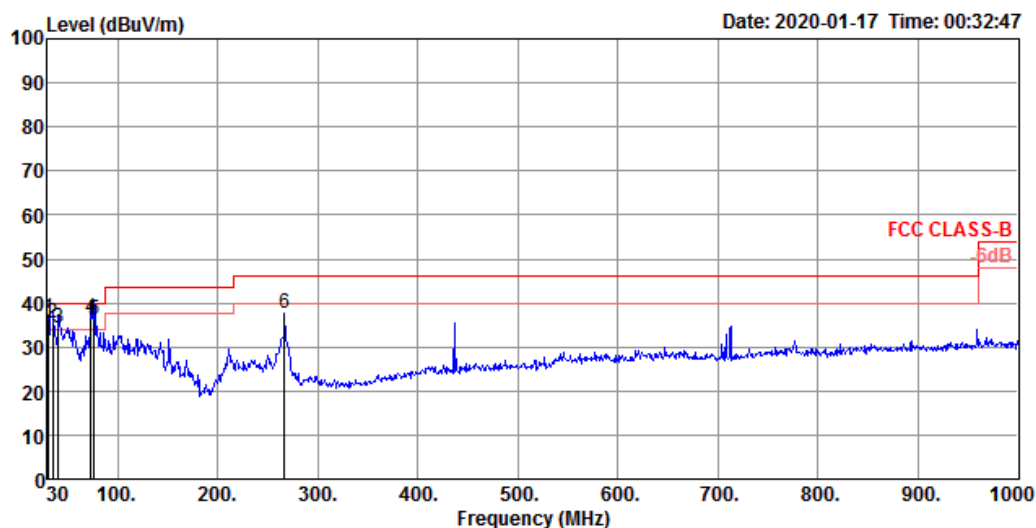
5775MHz

05/11/2019



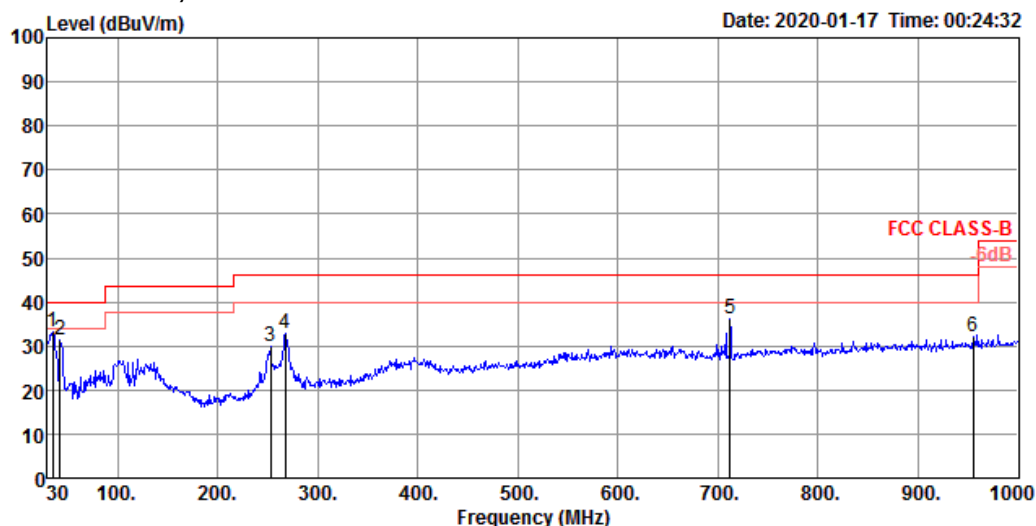
Test Mode	Mode 1	Frequency Range	30 MHz to 1,000 MHz
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Vertical 30 MHz to 1,000 MHz



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	30.97	36.39	40.00	-3.61	40.50	0.60	23.86	28.57	300	356 Peak	VERTICAL
2	34.85	35.49	40.00	-4.51	41.58	0.60	21.88	28.57	200	67 QP	VERTICAL
3	40.67	34.44	40.00	-5.56	43.68	0.60	18.72	28.56	200	360 QP	VERTICAL
4	73.65	36.56	40.00	-3.44	52.22	0.67	12.18	28.51	100	127 QP	VERTICAL
5	76.56	36.12	40.00	-3.88	51.28	0.70	12.64	28.50	100	209 QP	VERTICAL
6	266.68	37.59	46.00	-8.41	45.03	1.57	18.96	27.97	200	182 Peak	VERTICAL

Horizontal 30 MHz to 1,000 MHz



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	34.85	33.16	40.00	-6.84	39.25	0.60	21.88	28.57	300	35	Peak HORIZONTAL
2	42.61	31.46	40.00	-8.54	41.77	0.60	17.65	28.56	200	206	Peak HORIZONTAL
3	253.10	29.74	46.00	-16.26	37.46	1.51	18.76	27.99	200	302	Peak HORIZONTAL
4	267.65	32.70	46.00	-13.30	40.21	1.57	18.89	27.97	150	248	Peak HORIZONTAL
5	711.91	36.08	46.00	-9.92	37.40	2.93	25.20	29.45	100	129	Peak HORIZONTAL
6	955.38	32.06	46.00	-13.94	30.39	3.59	26.99	28.91	100	318	Peak HORIZONTAL



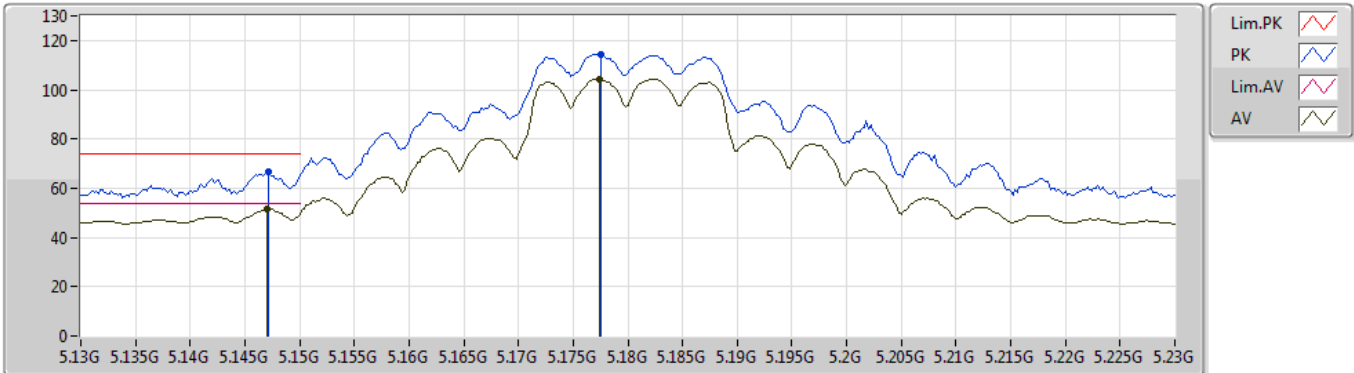
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	5.1468G	53.95	54.00	-0.05	7.94	3	Vertical	210	2.64	-

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5180MHz_TX



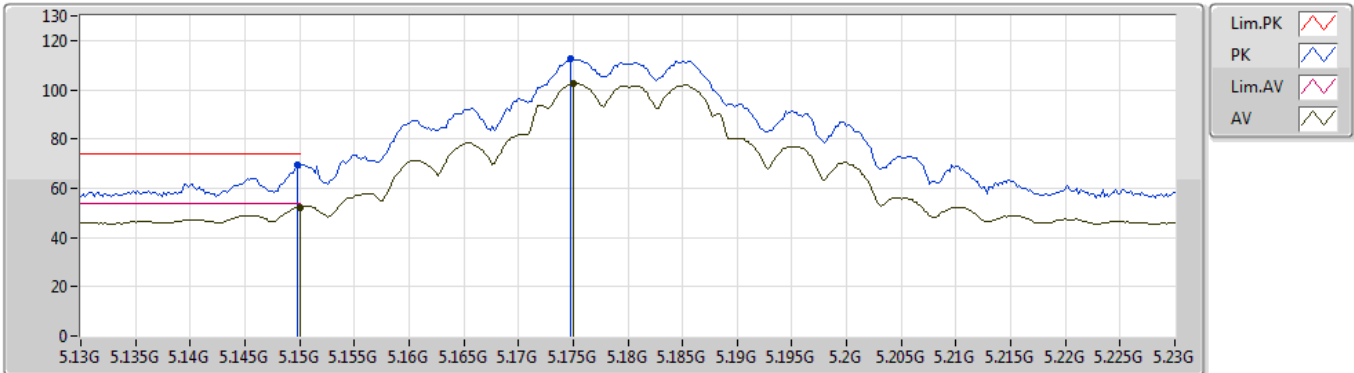
EUT_Z_2TX
Setting 21.5
02-J-1-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1472G	66.82	74.00	-7.18	7.94	3	Vertical	179	1.16	-	58.88			
AV	5.147G	51.62	54.00	-2.38	7.94	3	Vertical	179	1.16	-	43.68			
PK	5.1776G	114.42	Inf	-Inf	8.02	3	Vertical	179	1.16	-	106.40			
AV	5.1774G	104.20	Inf	-Inf	8.02	3	Vertical	179	1.16	-	96.18			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5180MHz_TX



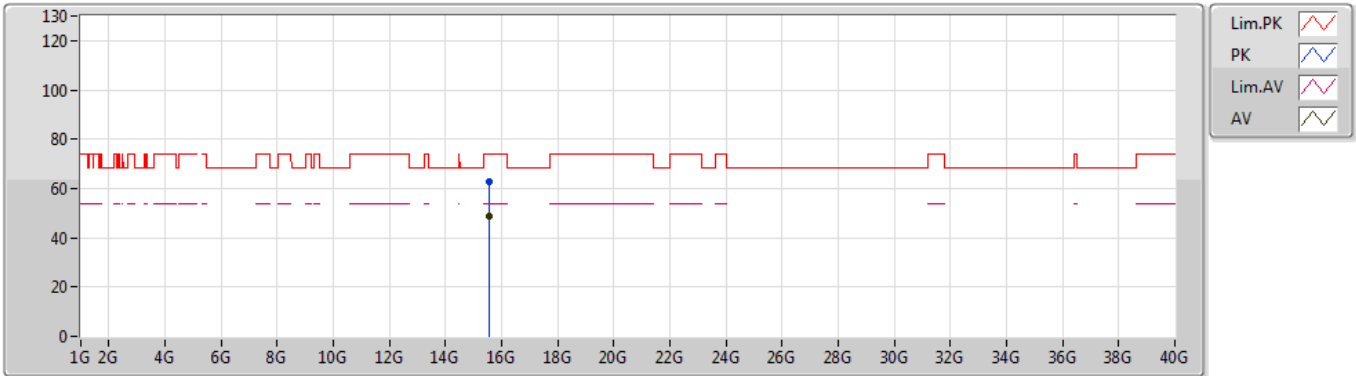
EUT_Z_2TX
Setting 21.5
02-J-1-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1498G	69.63	74.00	-4.37	7.94	3	Horizontal	91	1.50	-	61.69			
AV	5.15G	52.22	54.00	-1.78	7.94	3	Horizontal	91	1.50	-	44.28			
PK	5.1748G	112.54	Inf	-Inf	8.00	3	Horizontal	91	1.50	-	104.54			
AV	5.175G	102.62	Inf	-Inf	8.01	3	Horizontal	91	1.50	-	94.61			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5180MHz_TX



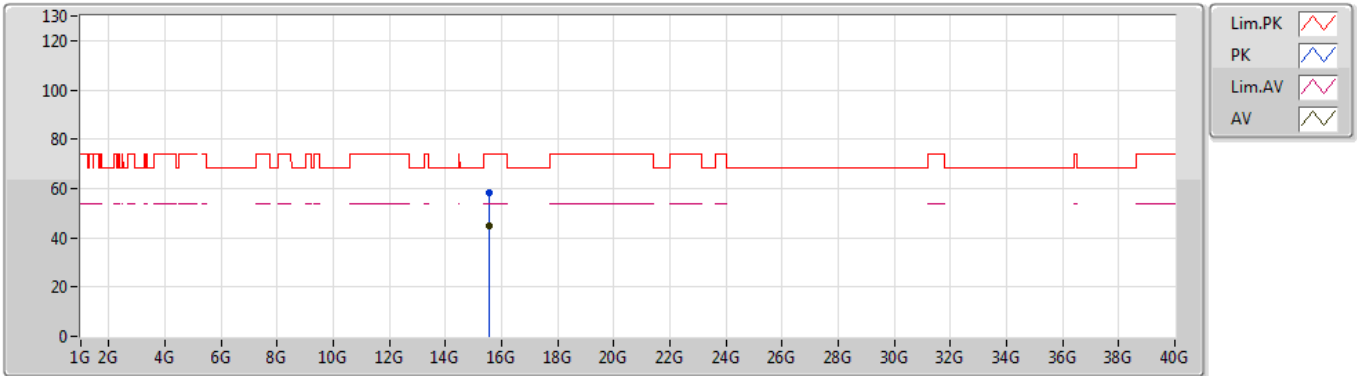
EUT_Z_2TX
Setting 21.5
02-J-1
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.53346G	62.89	74.00	-11.11	16.09	3	Vertical	92	1.97	-	46.80			
AV	15.53874G	48.74	54.00	-5.26	16.08	3	Vertical	92	1.97	-	32.66			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5180MHz_TX



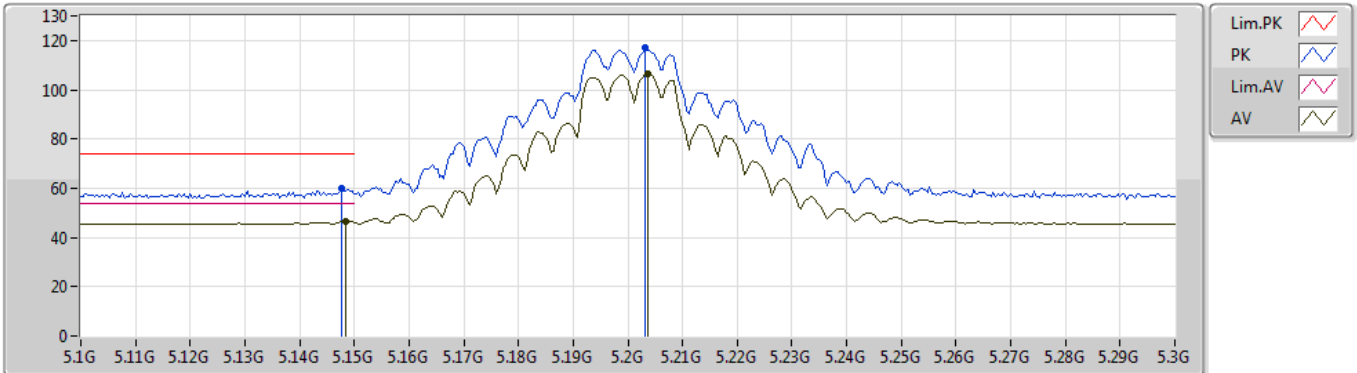
EUT_Z_2TX
Setting 21.5
02-J-1
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.54438G	58.34	74.00	-15.66	16.06	3	Horizontal	133	1.99	-	42.28			
AV	15.54348G	44.98	54.00	-9.02	16.06	3	Horizontal	133	1.99	-	28.92			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5200MHz_TX



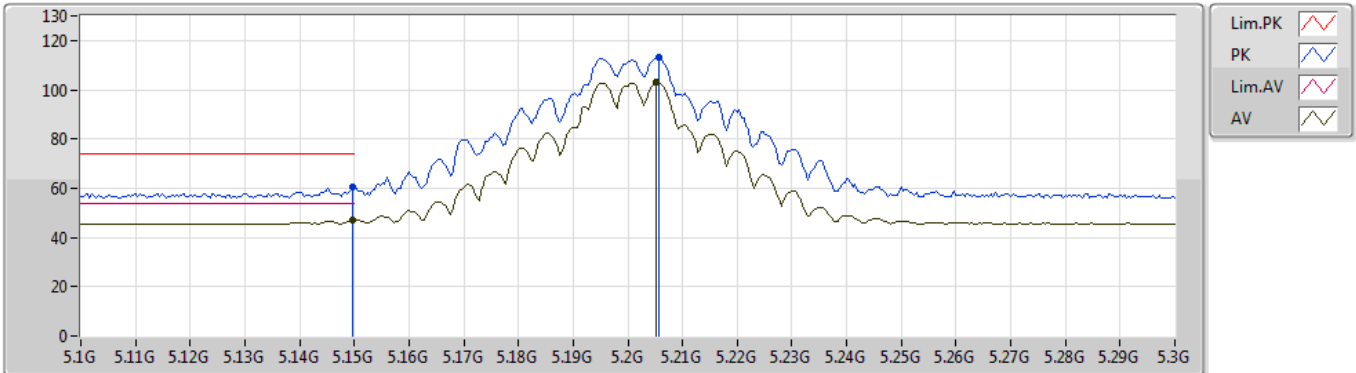
EUT_Z_2TX
Setting 26
02-J-1-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1476G	59.95	74.00	-14.05	7.94	3	Vertical	198	2.72	-	52.01			
AV	5.1484G	46.68	54.00	-7.32	7.94	3	Vertical	198	2.72	-	38.74			
PK	5.2032G	116.98	Inf	-Inf	8.06	3	Vertical	198	2.72	-	108.92			
AV	5.2036G	106.67	Inf	-Inf	8.06	3	Vertical	198	2.72	-	98.61			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5200MHz_TX



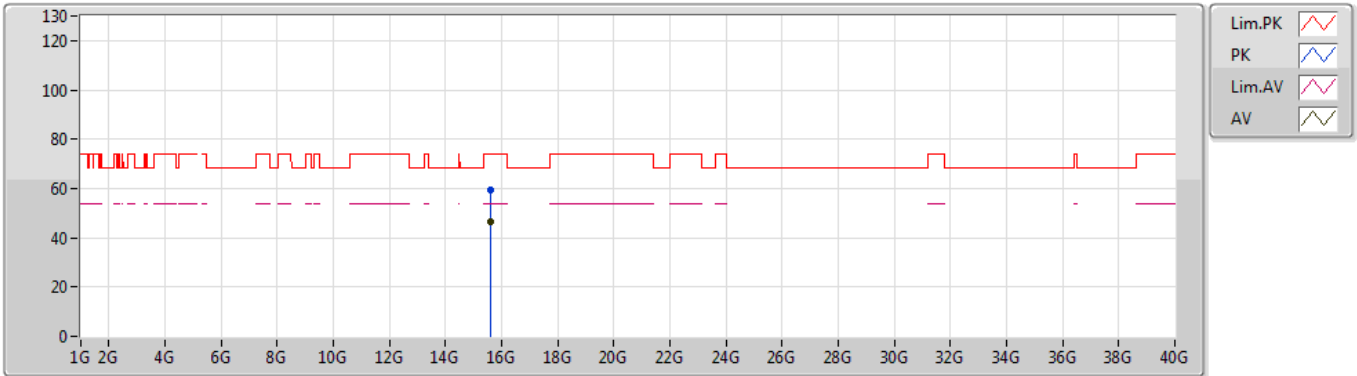
EUT_Z_2TX
Setting 26
02-J-1-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1496G	60.30	74.00	-13.70	7.94	3	Horizontal	92	1.50	-	52.36			
AV	5.1496G	47.23	54.00	-6.77	7.94	3	Horizontal	92	1.50	-	39.29			
PK	5.2056G	113.40	Inf	-Inf	8.07	3	Horizontal	92	1.50	-	105.33			
AV	5.2052G	103.06	Inf	-Inf	8.07	3	Horizontal	92	1.50	-	94.99			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5200MHz_TX



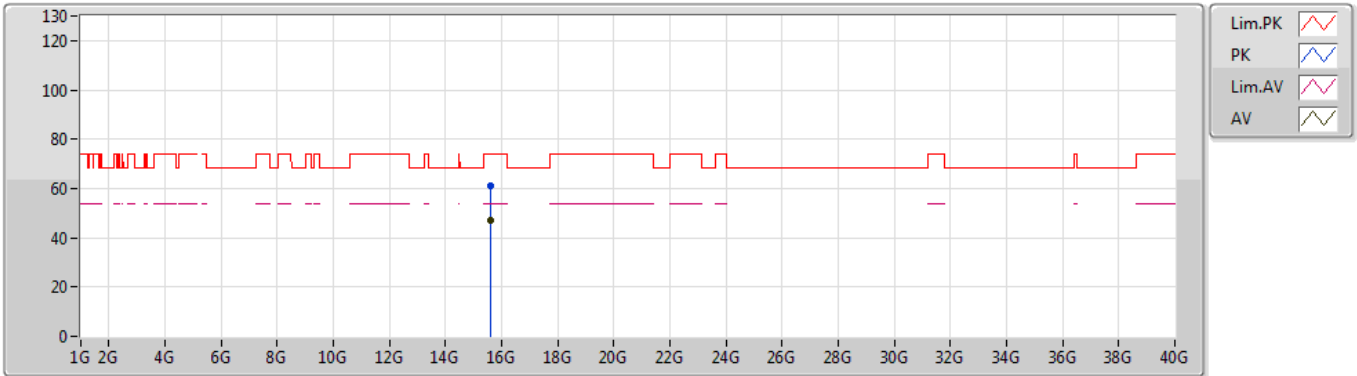
EUT_Z_2TX
Setting 26
02-J-1
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.59754G	59.62	74.00	-14.38	15.92	3	Vertical	23	1.50	-	43.70			
AV	15.59874G	46.29	54.00	-7.71	15.91	3	Vertical	23	1.50	-	30.38			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5200MHz_TX



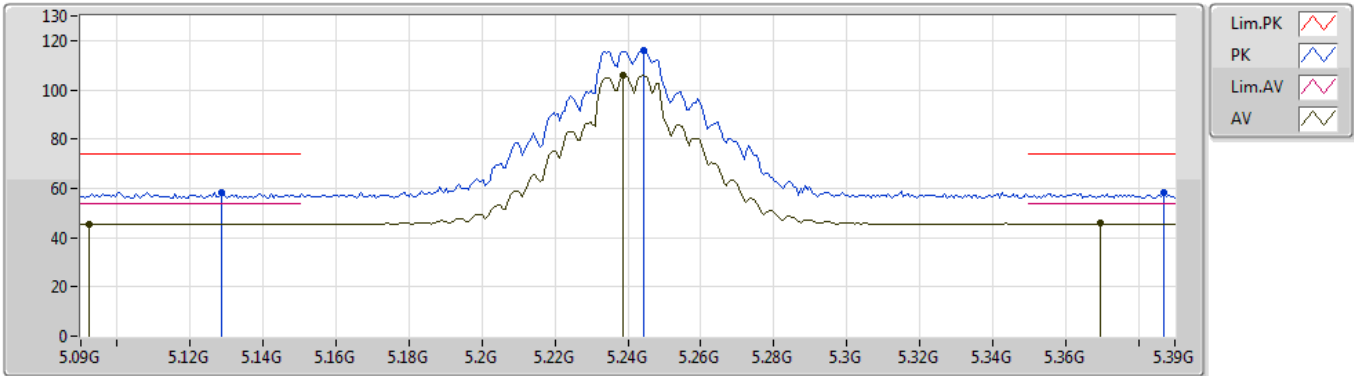
EUT_Z_2TX
Setting 26
02-J-1
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.59508G	60.90	74.00	-13.10	15.92	3	Horizontal	86	1.99	-	44.98			
AV	15.59934G	47.18	54.00	-6.82	15.91	3	Horizontal	86	1.99	-	31.27			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5240MHz_TX



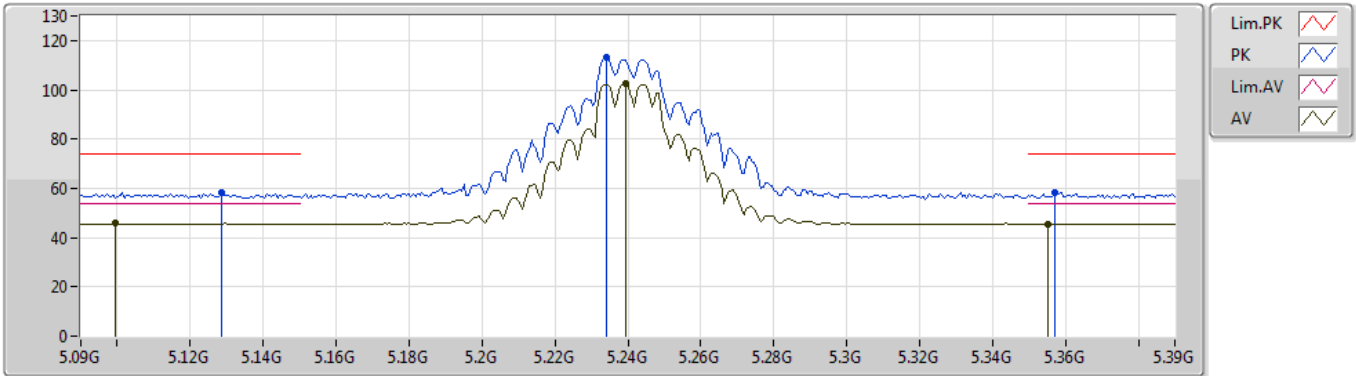
EUT_Z_2TX
Setting 26
02-J-1-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1284G	58.54	74.00	-15.46	7.91	3	Vertical	77	2.76	-	50.63			
AV	5.0924G	45.63	54.00	-8.37	7.82	3	Vertical	77	2.76	-	37.81			
PK	5.2442G	116.16	Inf	-Inf	8.12	3	Vertical	77	2.76	-	108.04			
AV	5.2388G	105.97	Inf	-Inf	8.12	3	Vertical	77	2.76	-	97.85			
PK	5.387G	58.02	74.00	-15.98	8.33	3	Vertical	77	2.76	-	49.69			
AV	5.3696G	45.81	54.00	-8.19	8.30	3	Vertical	77	2.76	-	37.51			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5240MHz_TX



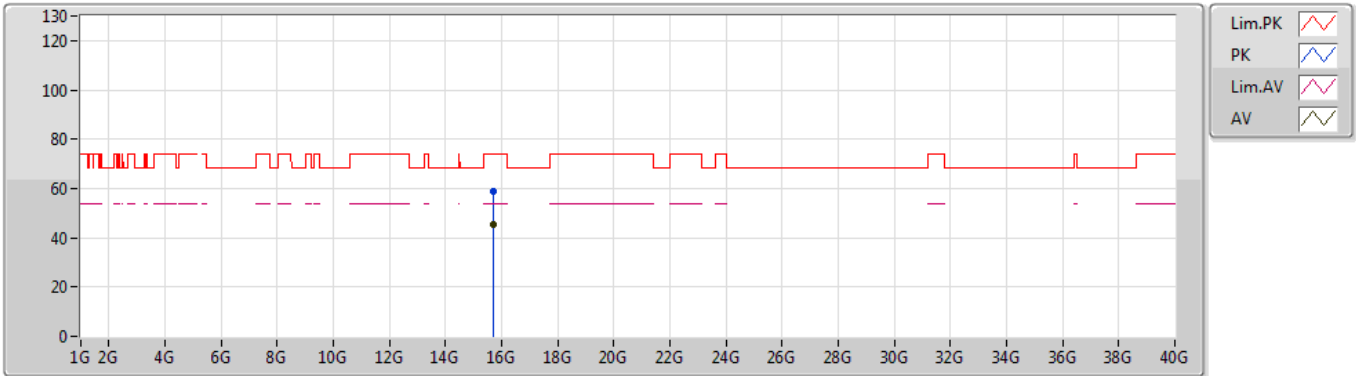
EUT Z_2TX
Setting 26
02-J-1-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1284G	58.30	74.00	-15.70	7.91	3	Horizontal	276	1.50	-	50.39
AV	5.0996G	45.73	54.00	-8.27	7.84	3	Horizontal	276	1.50	-	37.89
PK	5.234G	113.42	Inf	-Inf	8.11	3	Horizontal	276	1.50	-	105.31
AV	5.2394G	102.70	Inf	-Inf	8.12	3	Horizontal	276	1.50	-	94.58
PK	5.357G	58.32	74.00	-15.68	8.28	3	Horizontal	276	1.50	-	50.04
AV	5.3552G	45.66	54.00	-8.34	8.28	3	Horizontal	276	1.50	-	37.38

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5240MHz_TX



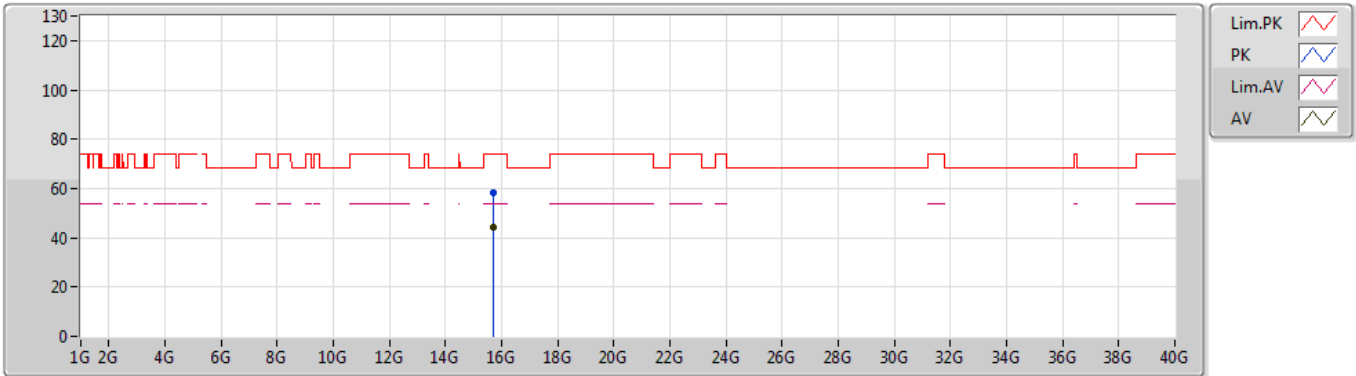
EUT_Z_2TX
Setting 26
02-J-1
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.7197G	58.59	74.00	-15.41	15.60	3	Vertical	22	1.50	-	42.99			
AV	15.71964G	45.22	54.00	-8.78	15.60	3	Vertical	22	1.50	-	29.62			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5240MHz_TX



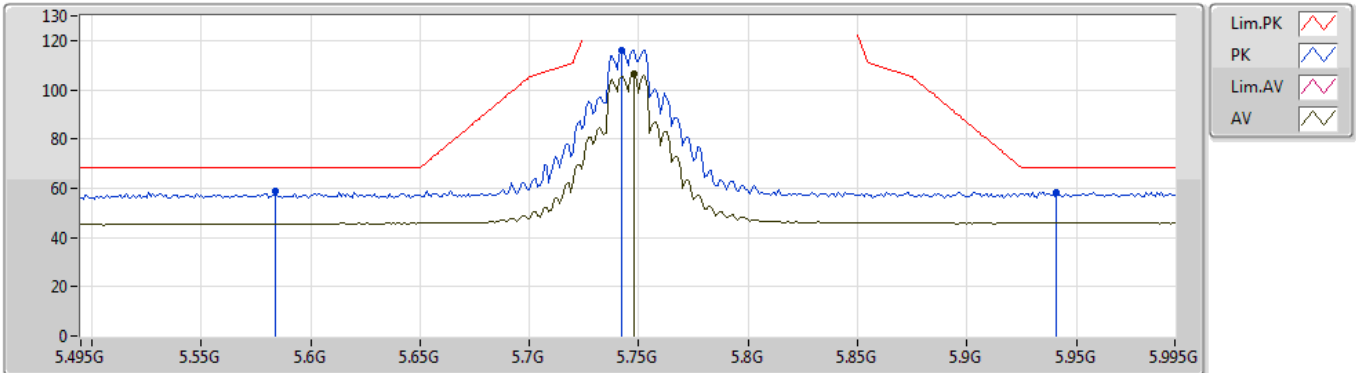
EUT_Z_2TX
Setting 26
02-J-1
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.71958G	58.07	74.00	-15.93	15.60	3	Horizontal	111	1.84	-	42.47			
AV	15.71892G	44.45	54.00	-9.55	15.61	3	Horizontal	111	1.84	-	28.84			

802.11a_Nss1,(6Mbps)_2TX

02/11/2019

5745MHz_TX



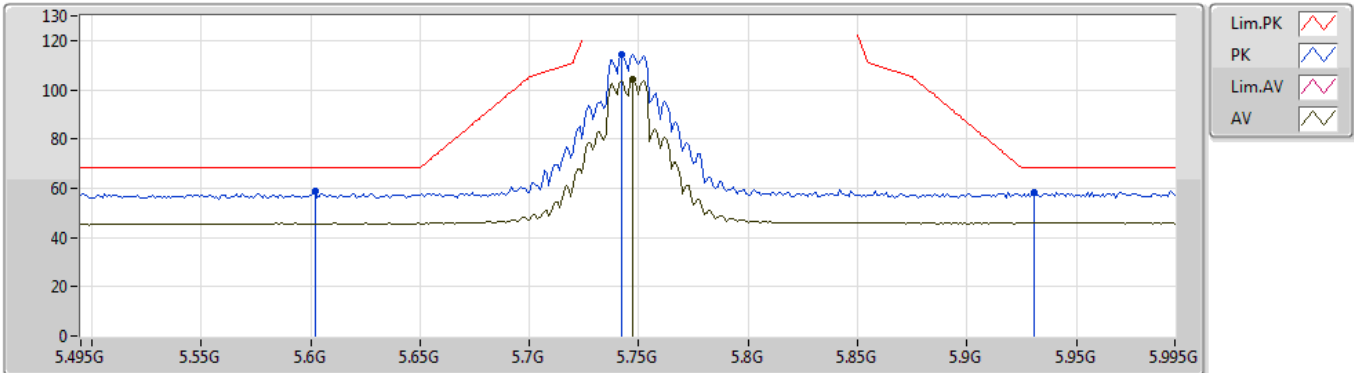
EUT Z_2TX
Setting 22
02-S-5-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.584G	59.03	68.20	-9.17	8.57	3	Vertical	120	1.04	-	50.46			
PK	5.742G	116.20	Inf	-Inf	8.81	3	Vertical	120	1.04	-	107.39			
AV	5.748G	106.40	Inf	-Inf	8.82	3	Vertical	120	1.04	-	97.58			
PK	5.941G	58.37	68.20	-9.83	8.93	3	Vertical	120	1.04	-	49.44			

802.11a_Nss1,(6Mbps)_2TX

02/11/2019

5745MHz_TX



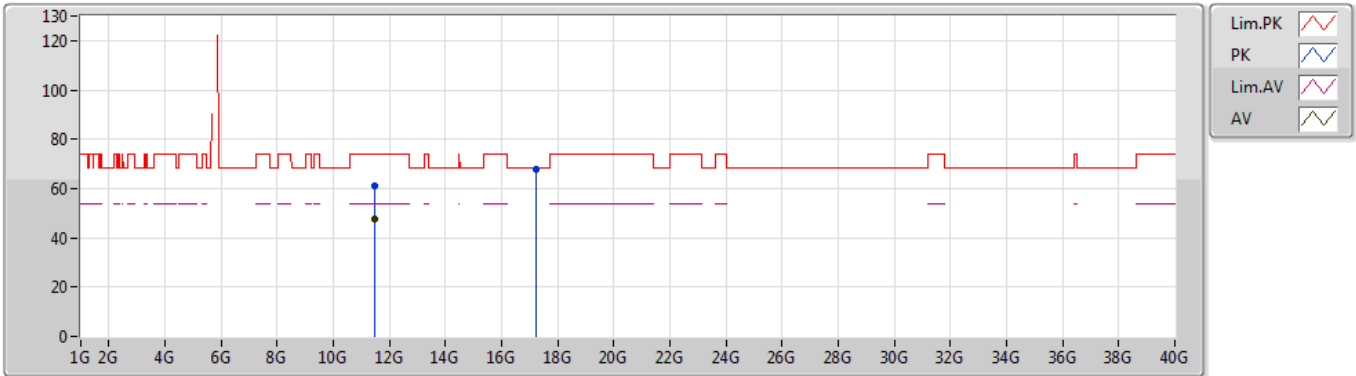
EUT Z_2TX
Setting 22
02-S-5-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.602G	58.91	68.20	-9.29	8.58	3	Horizontal	70	2.88	-	50.33
PK	5.742G	114.41	Inf	-Inf	8.81	3	Horizontal	70	2.88	-	105.60
AV	5.747G	104.21	Inf	-Inf	8.82	3	Horizontal	70	2.88	-	95.39
PK	5.931G	58.38	68.20	-9.82	8.93	3	Horizontal	70	2.88	-	49.45

802.11a_Nss1,(6Mbps)_2TX

02/11/2019

5745MHz_TX



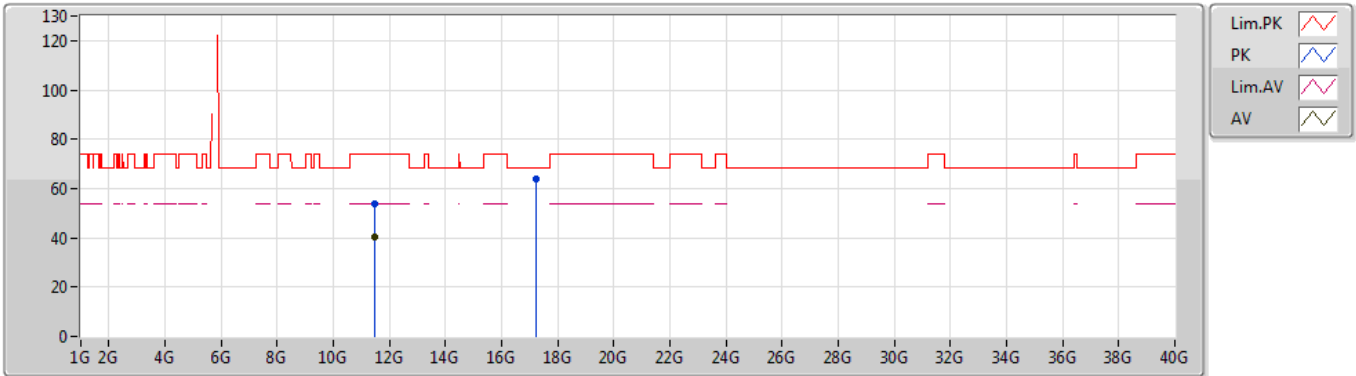
EUT_Z_2TX
Setting 22
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.48838G	61.16	74.00	-12.84	14.89	3	Vertical	245	2.68	-	46.27			
AV	11.48838G	47.90	54.00	-6.10	14.89	3	Vertical	245	2.68	-	33.01			
PK	17.23008G	67.75	68.20	-0.45	20.68	3	Vertical	113	2.52	-	47.07			

802.11a_Nss1,(6Mbps)_2TX

02/11/2019

5745MHz_TX



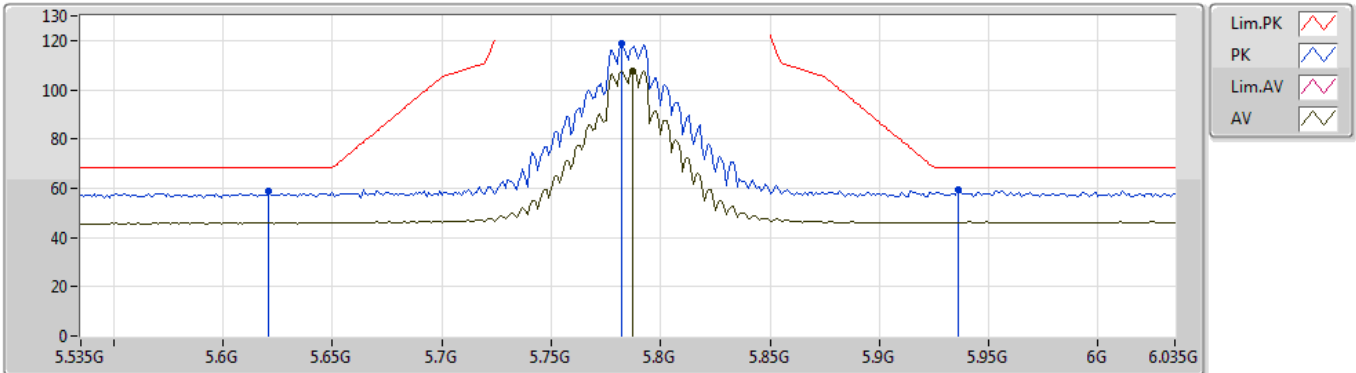
EUT_Z_2TX
Setting 22
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.4975G	54.07	74.00	-19.93	14.90	3	Horizontal	133	1.03	-	39.17			
AV	11.49048G	40.42	54.00	-13.58	14.89	3	Horizontal	133	1.03	-	25.53			
PK	17.22936G	64.00	68.20	-4.20	20.68	3	Horizontal	346	2.07	-	43.32			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5785MHz_TX



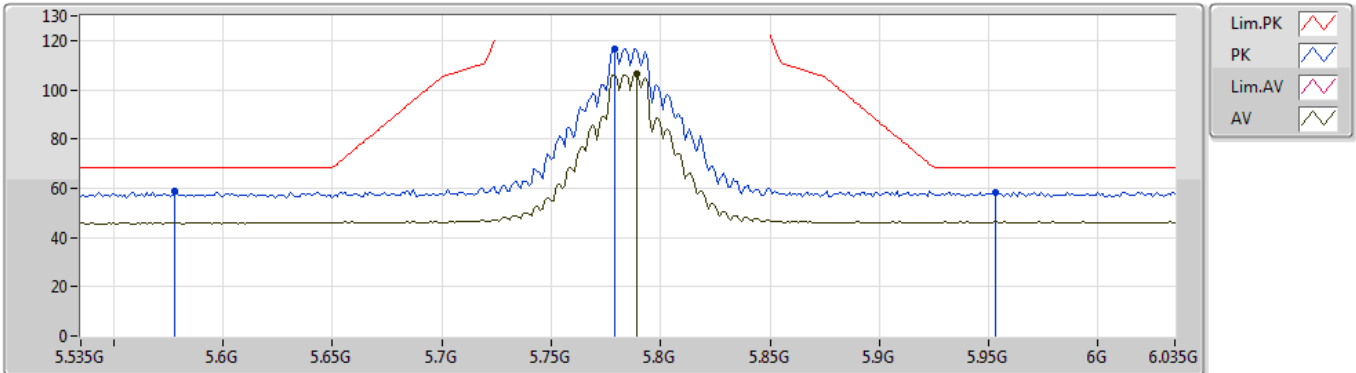
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.621G	58.60	68.20	-9.60	8.61	3	Vertical	189	1.01	-	49.99
PK	5.782G	118.56	Inf	-Inf	8.88	3	Vertical	189	1.01	-	109.68
AV	5.787G	107.77	Inf	-Inf	8.88	3	Vertical	189	1.01	-	98.89
PK	5.936G	59.26	68.20	-8.94	8.93	3	Vertical	189	1.01	-	50.33

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5785MHz_TX



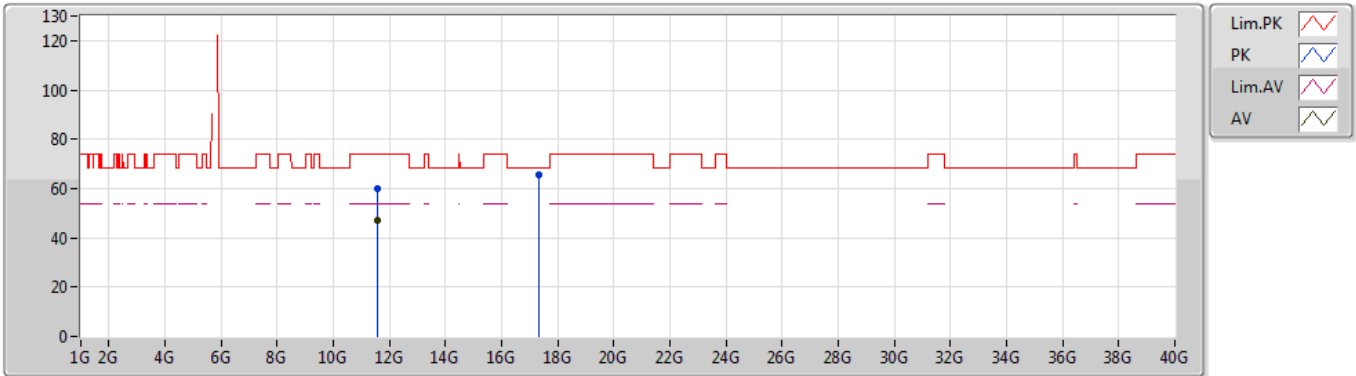
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.578G	58.88	68.20	-9.32	8.57	3	Horizontal	259	2.86	-	50.31
PK	5.779G	116.70	Inf	-Inf	8.87	3	Horizontal	259	2.86	-	107.83
AV	5.789G	106.65	Inf	-Inf	8.88	3	Horizontal	259	2.86	-	97.77
PK	5.953G	58.46	68.20	-9.74	8.92	3	Horizontal	259	2.86	-	49.54

802.11a_Nss1,(6Mbps)_2TX

02/11/2019

5785MHz_TX



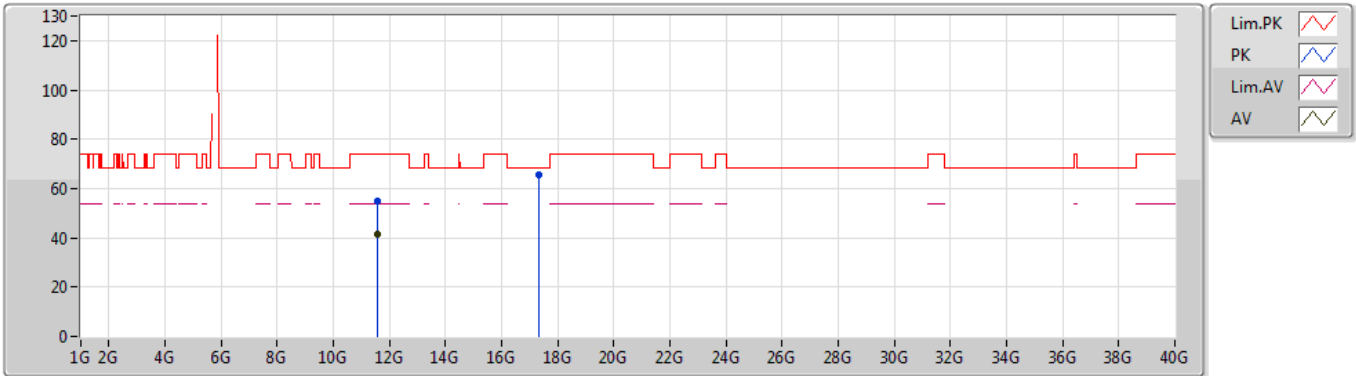
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.57078G	60.17	74.00	-13.83	15.00	3	Vertical	163	1.36	-	45.17			
AV	11.57042G	47.07	54.00	-6.93	15.00	3	Vertical	163	1.36	-	32.07			
PK	17.35014G	65.38	68.20	-2.82	21.40	3	Vertical	40	1.31	-	43.98			

802.11a_Nss1,(6Mbps)_2TX

02/11/2019

5785MHz_TX



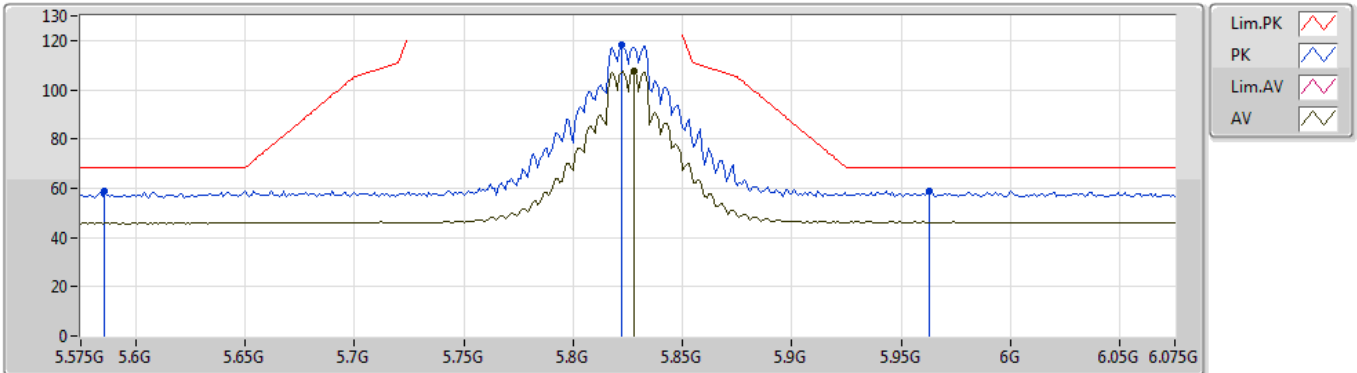
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Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.57948G	55.15	74.00	-18.85	15.01	3	Horizontal	317	1.82	-	40.14			
AV	11.56832G	41.42	54.00	-12.58	14.99	3	Horizontal	317	1.82	-	26.43			
PK	17.35014G	65.55	68.20	-2.65	21.40	3	Horizontal	105	1.65	-	44.15			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5825MHz_TX



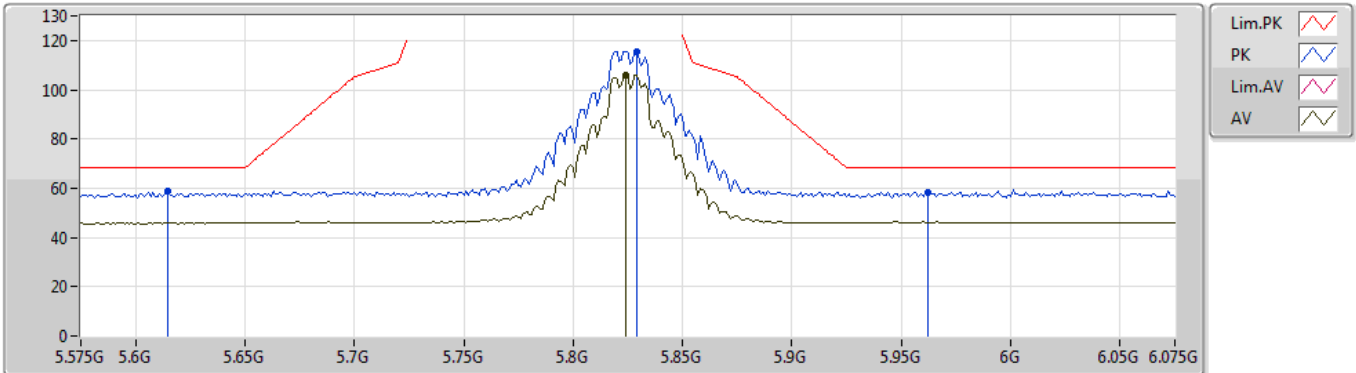
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.586G	59.08	68.20	-9.12	8.57	3	Vertical	188	1.06	-	50.51			
PK	5.822G	118.10	Inf	-Inf	8.90	3	Vertical	188	1.06	-	109.20			
AV	5.828G	107.43	Inf	-Inf	8.91	3	Vertical	188	1.06	-	98.52			
PK	5.963G	58.64	68.20	-9.56	8.93	3	Vertical	188	1.06	-	49.71			

802.11a_Nss1,(6Mbps)_2TX

01/11/2019

5825MHz_TX



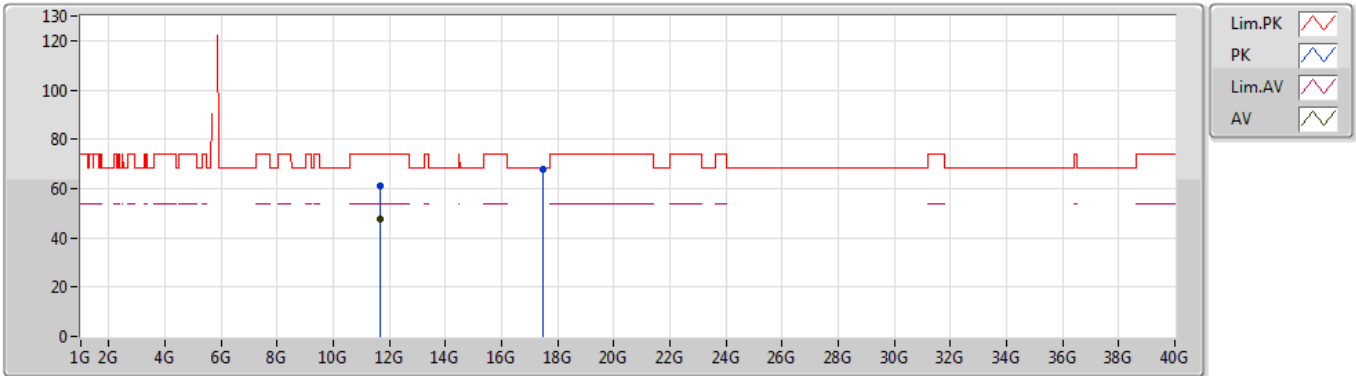
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.615G	58.57	68.20	-9.63	8.61	3	Horizontal	260	2.95	-	49.96			
PK	5.829G	115.53	Inf	-Inf	8.91	3	Horizontal	260	2.95	-	106.62			
AV	5.824G	105.87	Inf	-Inf	8.90	3	Horizontal	260	2.95	-	96.97			
PK	5.962G	58.41	68.20	-9.79	8.93	3	Horizontal	260	2.95	-	49.48			

802.11a_Nss1,(6Mbps)_2TX

02/11/2019

5825MHz_TX



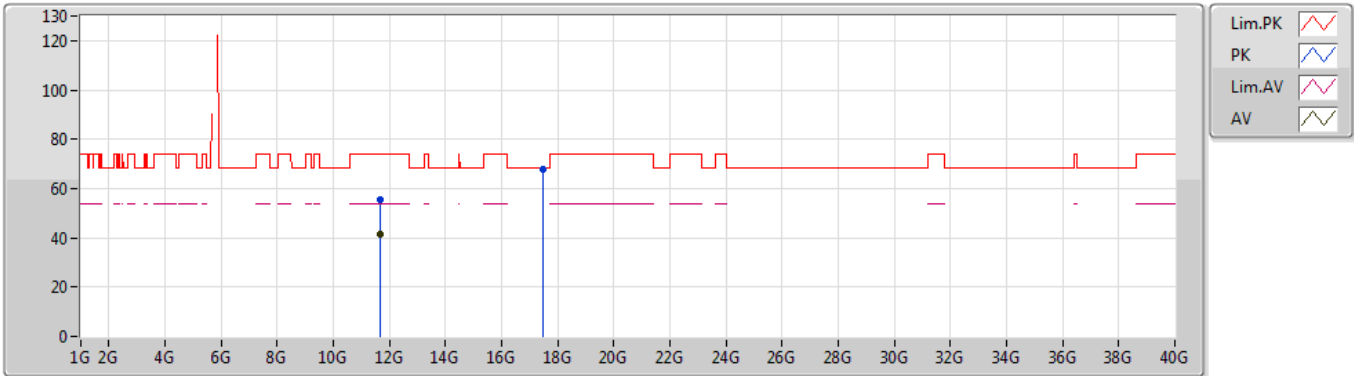
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.65102G	61.11	74.00	-12.89	15.10	3	Vertical	107	1.77	-	46.01			
AV	11.65012G	47.76	54.00	-6.24	15.09	3	Vertical	107	1.77	-	32.67			
PK	17.48178G	67.62	68.20	-0.58	22.17	3	Vertical	59	2.84	-	45.45			

802.11a_Nss1,(6Mbps)_2TX

02/11/2019

5825MHz_TX



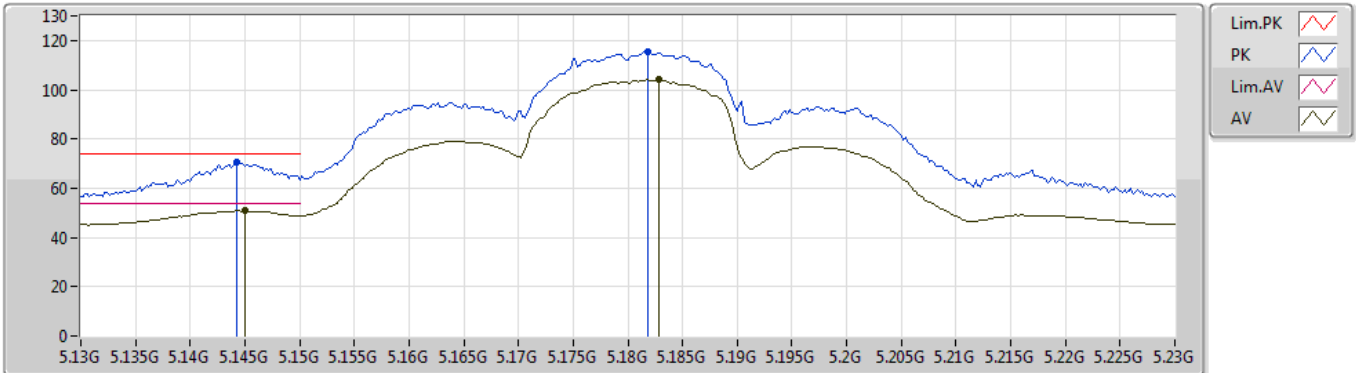
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.64964G	55.53	74.00	-18.47	15.09	3	Horizontal	15	2.00	-	40.44			
AV	11.6503G	41.66	54.00	-12.34	15.09	3	Horizontal	15	2.00	-	26.57			
PK	17.47008G	67.97	68.20	-0.23	22.10	3	Horizontal	344	1.88	-	45.87			

802.11ac VHT20_Nss1,(MCS0)_2TX

01/11/2019

5180MHz_TX



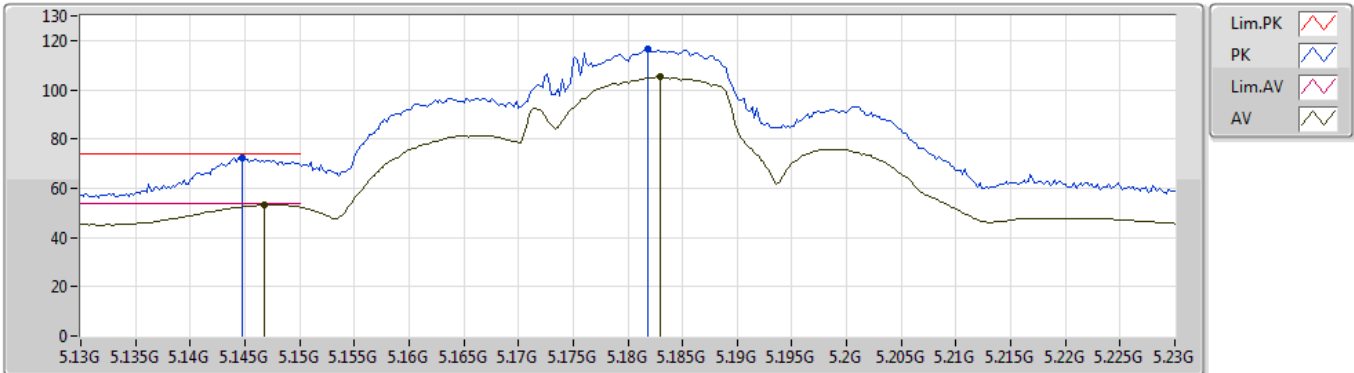
EUT_Z_2TX
Setting 21.5
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1442G	70.73	74.00	-3.27	7.94	3	Vertical	136	2.90	-	62.79
AV	5.145G	50.92	54.00	-3.08	7.94	3	Vertical	136	2.90	-	42.98
PK	5.1818G	115.64	Inf	-Inf	8.02	3	Vertical	136	2.90	-	107.62
AV	5.1828G	103.99	Inf	-Inf	8.02	3	Vertical	136	2.90	-	95.97

802.11ac VHT20_Nss1,(MCS0)_2TX

01/11/2019

5180MHz_TX



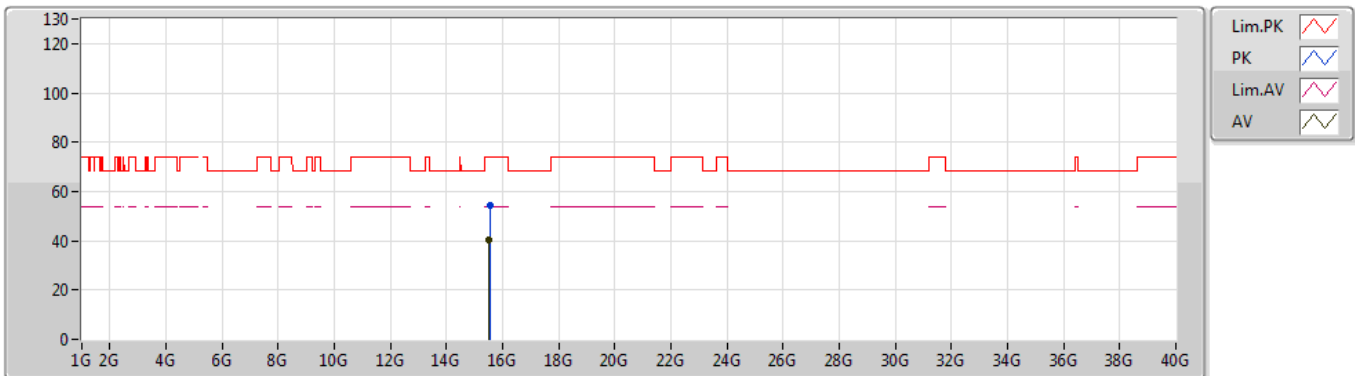
EUT_Z_2TX
Setting 21.5
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1448G	72.21	74.00	-1.79	7.94	3	Horizontal	80	2.85	-	64.27			
AV	5.1468G	53.30	54.00	-0.70	7.94	3	Horizontal	80	2.85	-	45.36			
PK	5.1818G	116.62	Inf	-Inf	8.02	3	Horizontal	80	2.85	-	108.60			
AV	5.183G	105.17	Inf	-Inf	8.02	3	Horizontal	80	2.85	-	97.15			

802.11ac VHT20_Nss1,(MCS0)_2TX

02/11/2019

5180MHz_TX



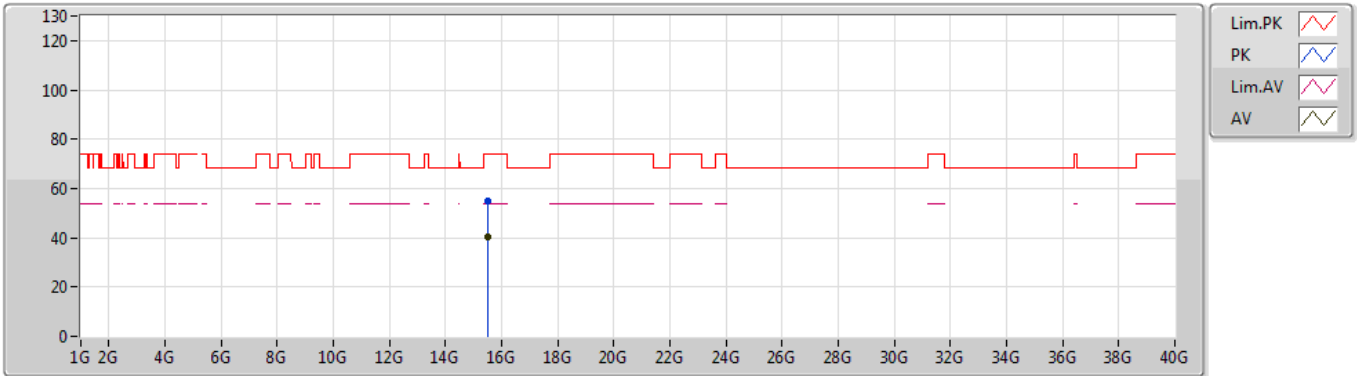
EUT_Z_2TX
Setting 21.5
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.53632G	54.30	74.00	-19.70	16.08	3	Vertical	353	1.47	-	38.22			
AV	15.5224G	40.33	54.00	-13.67	16.12	3	Vertical	353	1.47	-	24.21			

802.11ac VHT20_Nss1,(MCS0)_2TX

02/11/2019

5180MHz_TX



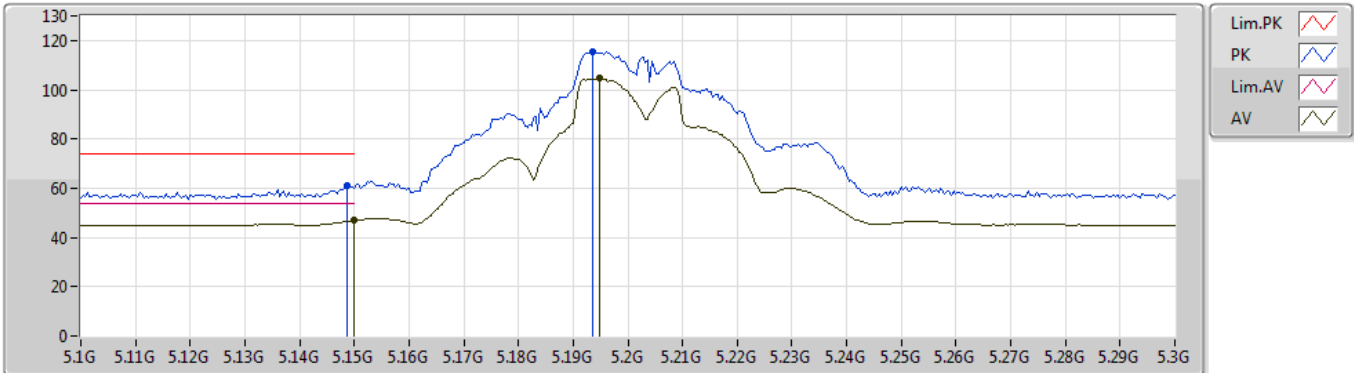
EUT_Z_2TX
Setting 21.5
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.5232G	54.89	74.00	-19.11	16.11	3	Horizontal	320	2.47	-	38.78			
AV	15.52184G	40.30	54.00	-13.70	16.12	3	Horizontal	320	2.47	-	24.18			

802.11ac VHT20_Nss1,(MCS0)_2TX

01/11/2019

5200MHz_TX



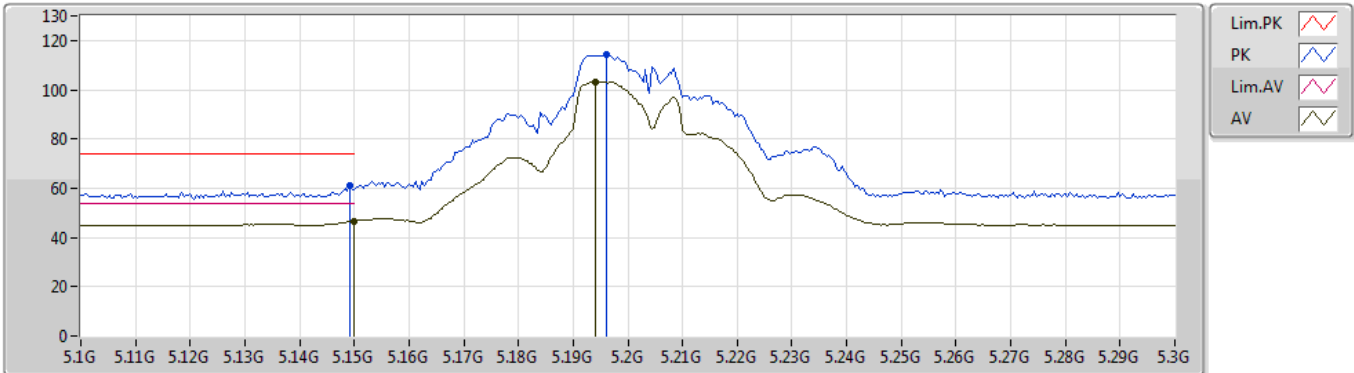
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)N

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1488G	61.00	74.00	-13.00	7.94	3	Vertical	199	2.62	-	53.06
AV	5.15G	46.88	54.00	-7.12	7.94	3	Vertical	199	2.62	-	38.94
PK	5.1936G	115.55	Inf	-Inf	8.04	3	Vertical	199	2.62	-	107.51
AV	5.1948G	104.55	Inf	-Inf	8.05	3	Vertical	199	2.62	-	96.50

802.11ac VHT20_Nss1,(MCS0)_2TX

01/11/2019

5200MHz_TX



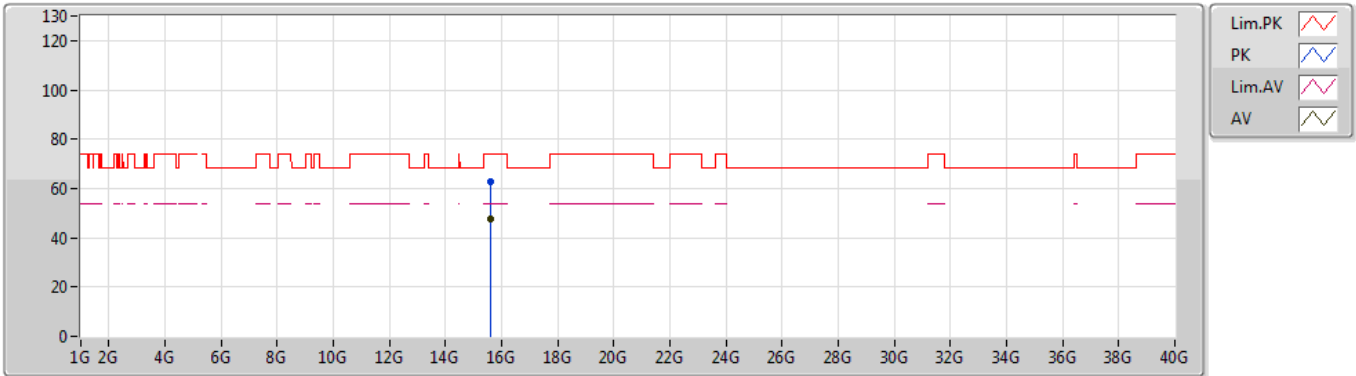
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1492G	60.89	74.00	-13.11	7.94	3	Horizontal	284	1.10	-	52.95			
AV	5.15G	46.62	54.00	-7.38	7.94	3	Horizontal	284	1.10	-	38.68			
PK	5.196G	114.28	Inf	-Inf	8.06	3	Horizontal	284	1.10	-	106.22			
AV	5.194G	103.35	Inf	-Inf	8.04	3	Horizontal	284	1.10	-	95.31			

802.11ac VHT20_Nss1,(MCS0)_2TX

02/11/2019

5200MHz_TX



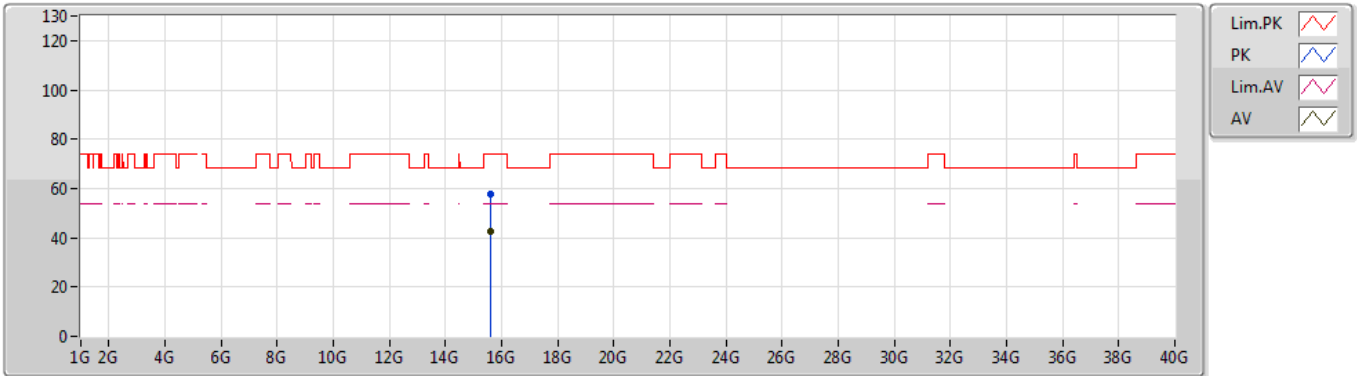
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.59584G	62.57	74.00	-11.43	15.92	3	Vertical	219	1.08	-	46.65			
AV	15.59584G	47.68	54.00	-6.32	15.92	3	Vertical	219	1.08	-	31.76			

802.11ac VHT20_Nss1,(MCS0)_2TX

02/11/2019

5200MHz_TX



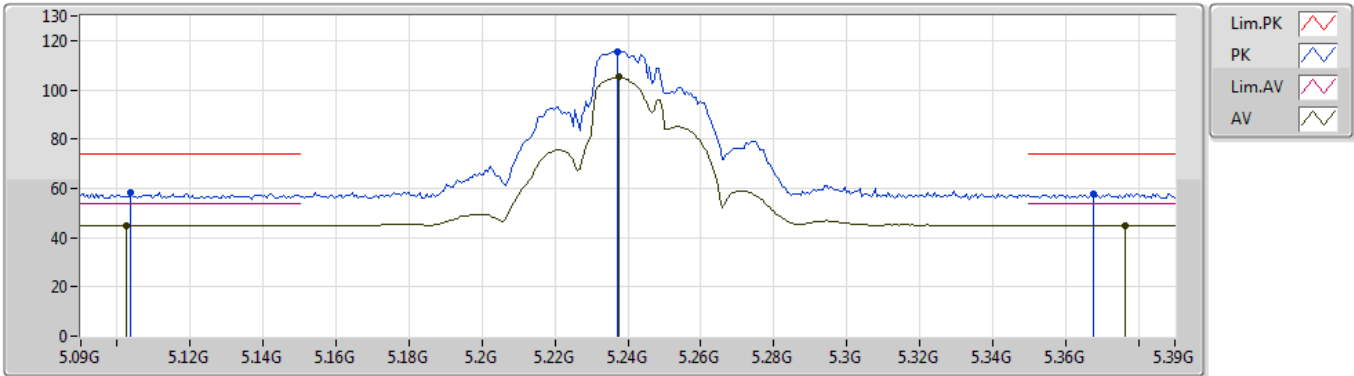
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.59688G	57.90	74.00	-16.10	15.92	3	Horizontal	74	2.05	-	41.98			
AV	15.59576G	42.79	54.00	-11.21	15.92	3	Horizontal	74	2.05	-	26.87			

802.11ac VHT20_Nss1,(MCS0)_2TX

01/11/2019

5240MHz_TX



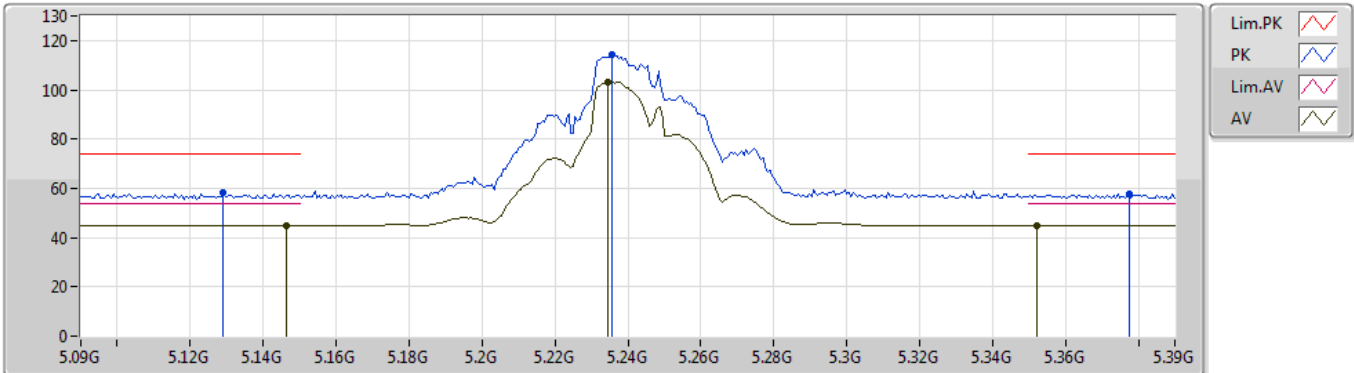
EUT Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1038G	58.11	74.00	-15.89	7.84	3	Vertical	203	2.68	-	50.27
AV	5.1026G	44.94	54.00	-9.06	7.84	3	Vertical	203	2.68	-	37.10
PK	5.237G	115.66	Inf	-Inf	8.11	3	Vertical	203	2.68	-	107.55
AV	5.2376G	105.17	Inf	-Inf	8.12	3	Vertical	203	2.68	-	97.05
PK	5.3678G	57.98	74.00	-16.02	8.29	3	Vertical	203	2.68	-	49.69
AV	5.3762G	45.05	54.00	-8.95	8.31	3	Vertical	203	2.68	-	36.74

802.11ac VHT20_Nss1,(MCS0)_2TX

01/11/2019

5240MHz_TX



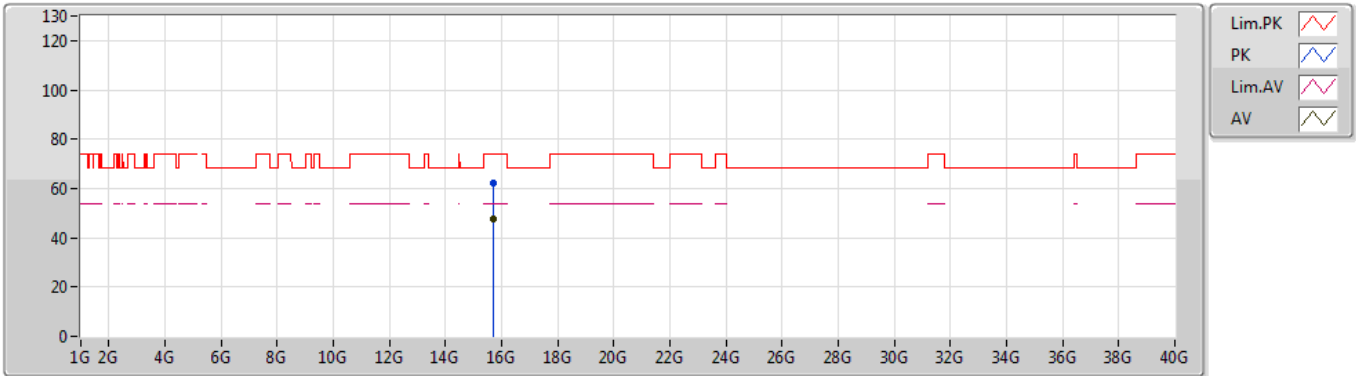
EUT Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.129G	58.31	74.00	-15.69	7.91	3	Horizontal	285	1.12	-	50.40
AV	5.1464G	44.96	54.00	-9.04	7.94	3	Horizontal	285	1.12	-	37.02
PK	5.2358G	114.33	Inf	-Inf	8.11	3	Horizontal	285	1.12	-	106.22
AV	5.2346G	103.05	Inf	-Inf	8.11	3	Horizontal	285	1.12	-	94.94
PK	5.3774G	57.81	74.00	-16.19	8.32	3	Horizontal	285	1.12	-	49.49
AV	5.3522G	45.03	54.00	-8.97	8.28	3	Horizontal	285	1.12	-	36.75

802.11ac VHT20_Nss1,(MCS0)_2TX

02/11/2019

5240MHz_TX



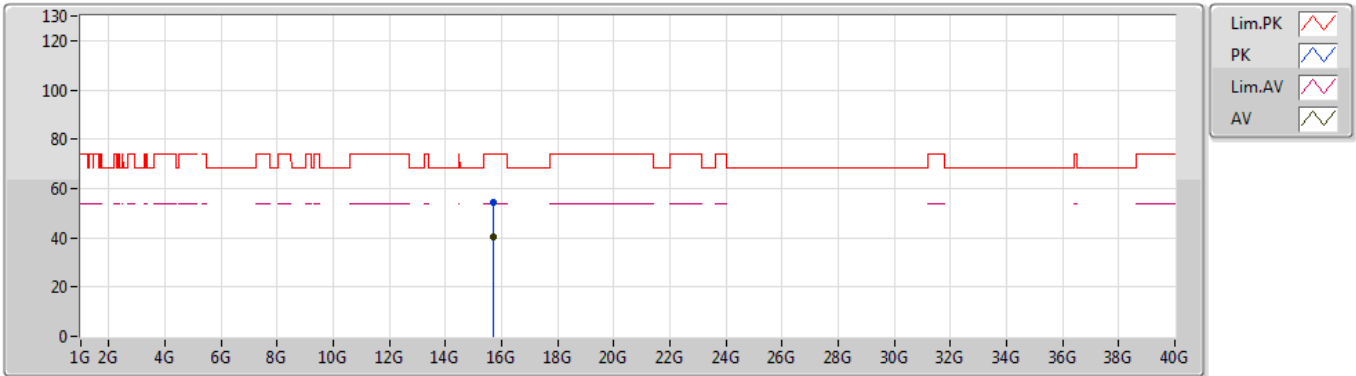
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.71552G	62.07	74.00	-11.93	15.61	3	Vertical	69	2.33	-	46.46			
AV	15.71608G	47.37	54.00	-6.63	15.61	3	Vertical	69	2.33	-	31.76			

802.11ac VHT20_Nss1,(MCS0)_2TX

02/11/2019

5240MHz_TX



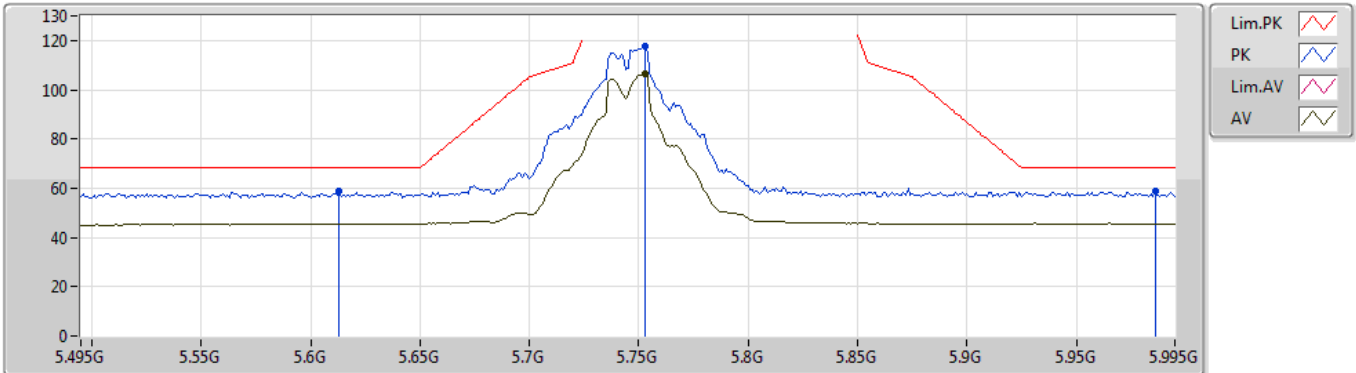
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Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.7064G	54.42	74.00	-19.58	15.63	3	Horizontal	358	2.50	-	38.79			
AV	15.71912G	40.15	54.00	-13.85	15.60	3	Horizontal	358	2.50	-	24.55			

802.11ac VHT20_Nss1,(MCS0)_2TX

01/11/2019

5745MHz_TX



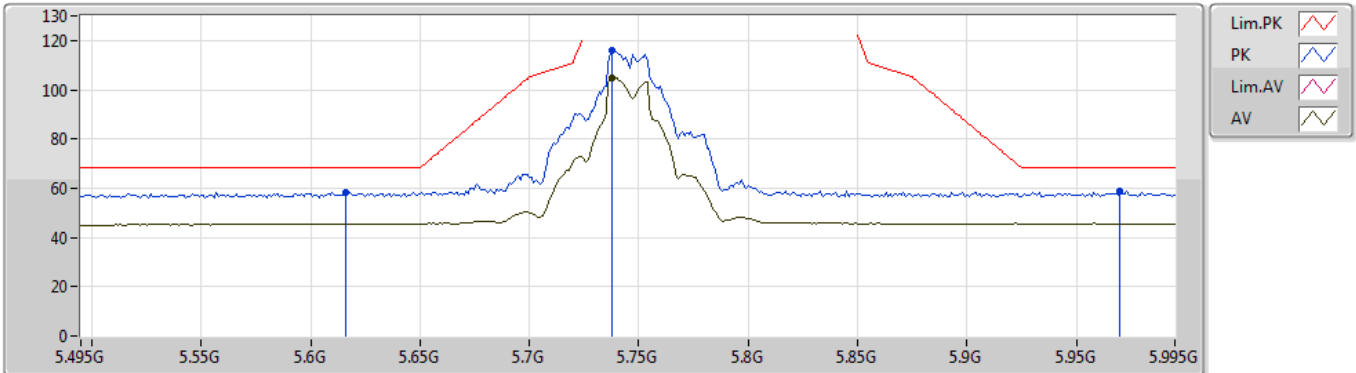
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.613G	58.57	68.20	-9.63	8.61	3	Vertical	186	2.57	-	49.96
PK	5.753G	117.78	Inf	-Inf	8.83	3	Vertical	186	2.57	-	108.95
AV	5.753G	106.48	Inf	-Inf	8.83	3	Vertical	186	2.57	-	97.65
PK	5.986G	58.88	68.20	-9.32	8.93	3	Vertical	186	2.57	-	49.95

802.11ac VHT20_Nss1,(MCS0)_2TX

01/11/2019

5745MHz_TX



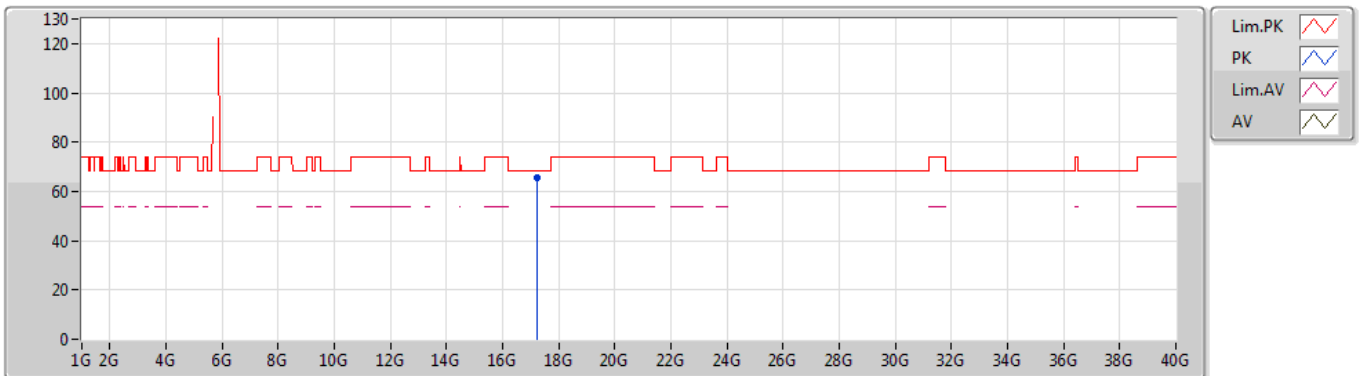
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.616G	58.43	68.20	-9.77	8.61	3	Horizontal	255	2.92	-	49.82			
PK	5.738G	115.79	Inf	-Inf	8.80	3	Horizontal	255	2.92	-	106.99			
AV	5.738G	104.77	Inf	-Inf	8.80	3	Horizontal	255	2.92	-	95.97			
PK	5.97G	58.98	68.20	-9.22	8.93	3	Horizontal	255	2.92	-	50.05			

802.11ac VHT20_Nss1,(MCS0)_2TX

02/11/2019

5745MHz_TX



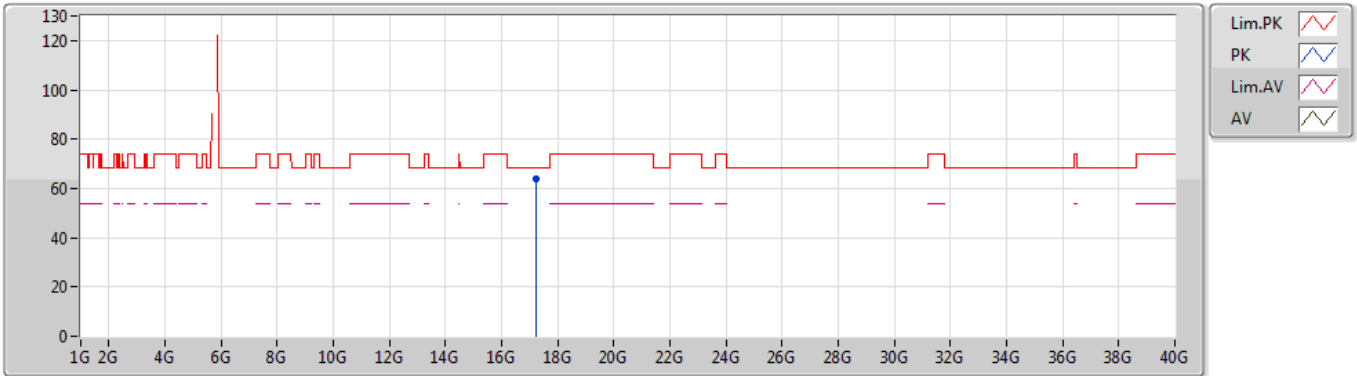
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	17.23084G	65.33	68.20	-2.87	20.68	3	Vertical	320	1.84	-	44.65			

802.11ac VHT20_Nss1,(MCS0)_2TX

02/11/2019

5745MHz_TX



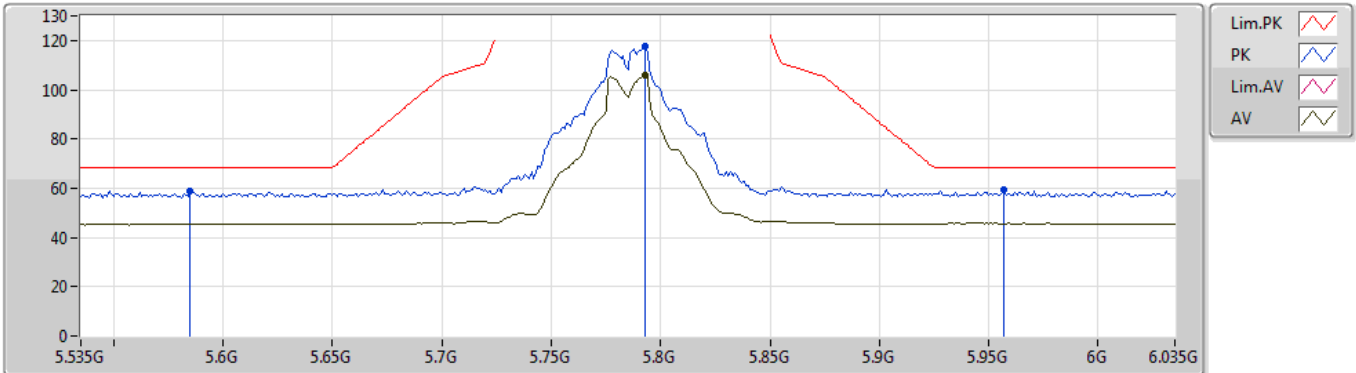
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Setting 26
02-S-5
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)			
PK	17.23084G	63.76	68.20	-4.44	20.68	3	Horizontal	252	2.87	-	43.08			

802.11ac VHT20_Nss1,(MCS0)_2TX

01/11/2019

5785MHz_TX



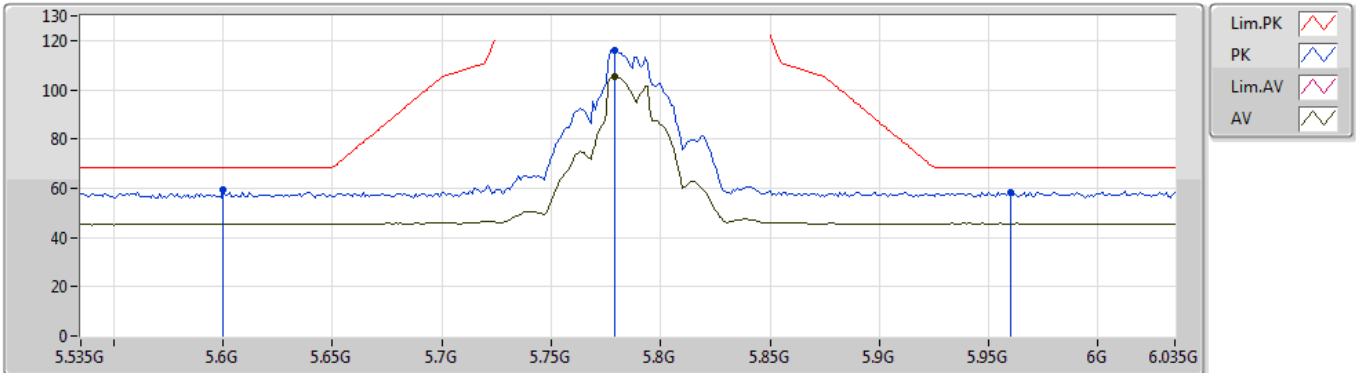
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.585G	59.02	68.20	-9.18	8.57	3	Vertical	186	2.44	-	50.45
PK	5.793G	117.42	Inf	-Inf	8.89	3	Vertical	186	2.44	-	108.53
AV	5.793G	105.88	Inf	-Inf	8.89	3	Vertical	186	2.44	-	96.99
PK	5.957G	59.15	68.20	-9.05	8.92	3	Vertical	186	2.44	-	50.23

802.11ac VHT20_Nss1,(MCS0)_2TX

01/11/2019

5785MHz_TX



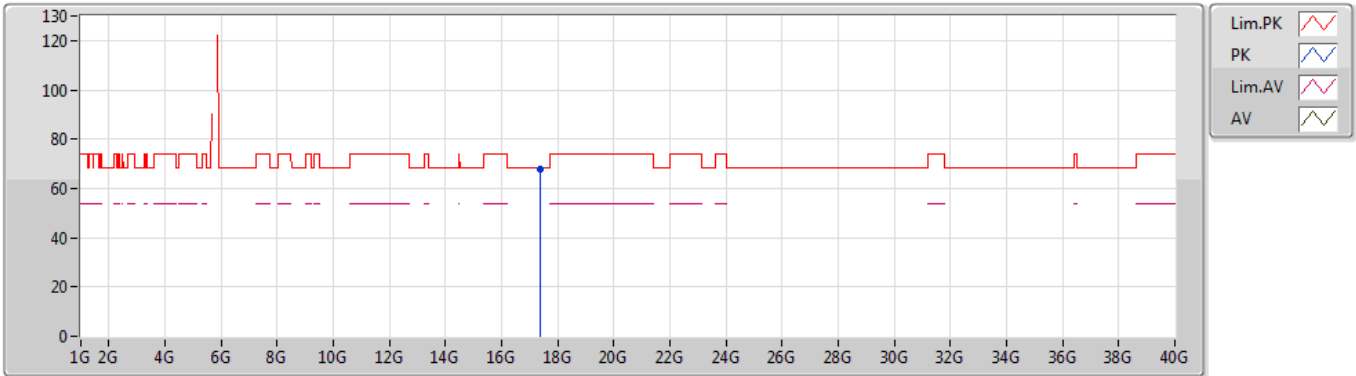
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.6G	59.22	68.20	-8.98	8.58	3	Horizontal	261	2.88	-	50.64
PK	5.779G	116.24	Inf	-Inf	8.87	3	Horizontal	261	2.88	-	107.37
AV	5.779G	105.13	Inf	-Inf	8.87	3	Horizontal	261	2.88	-	96.26
PK	5.96G	58.46	68.20	-9.74	8.93	3	Horizontal	261	2.88	-	49.53

802.11ac VHT20_Nss1,(MCS0)_2TX

02/11/2019

5785MHz_TX



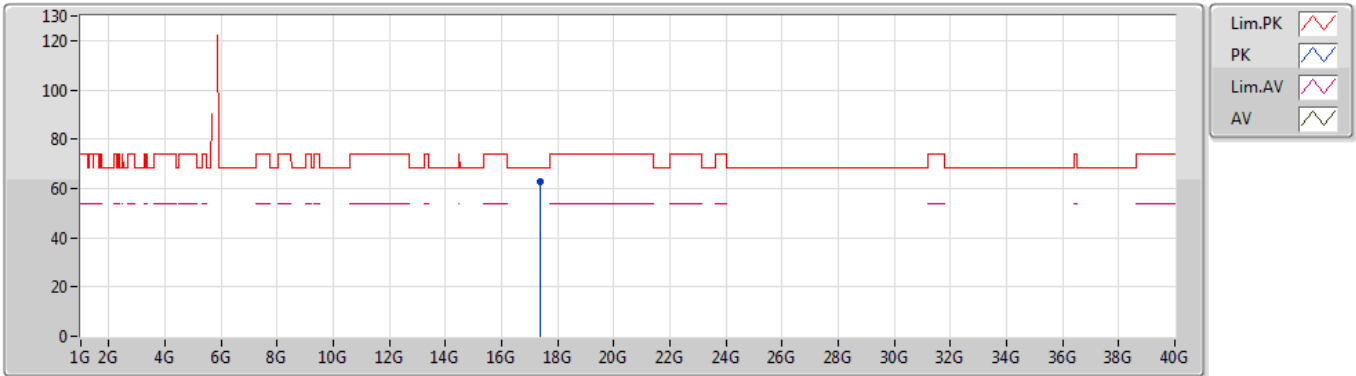
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	17.36076G	67.84	68.20	-6.36	21.45	3	Vertical	317	2.52	-	40.39			

802.11ac VHT20_Nss1,(MCS0)_2TX

02/11/2019

5785MHz_TX



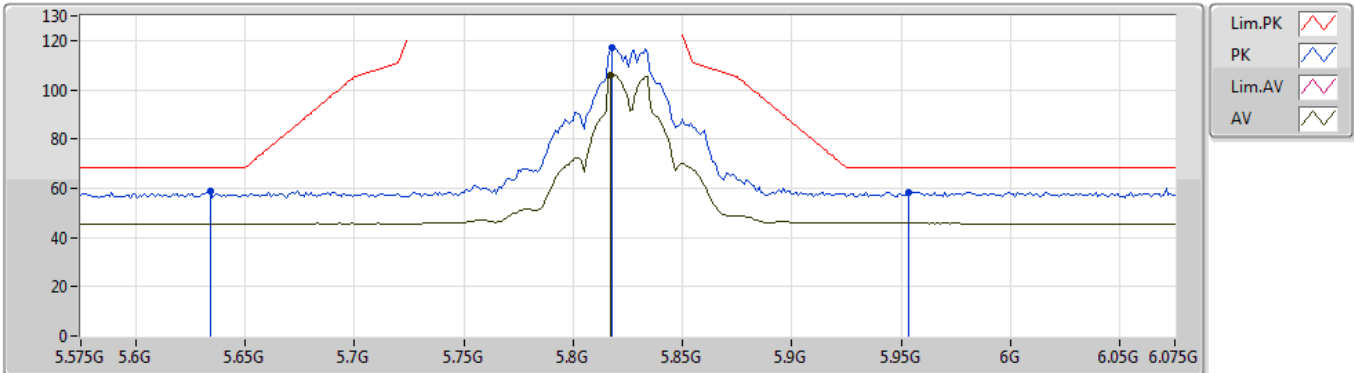
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	17.35668G	62.86	68.20	-5.34	21.43	3	Horizontal	297	2.95	-	41.43			

802.11ac VHT20_Nss1,(MCS0)_2TX

01/11/2019

5825MHz_TX



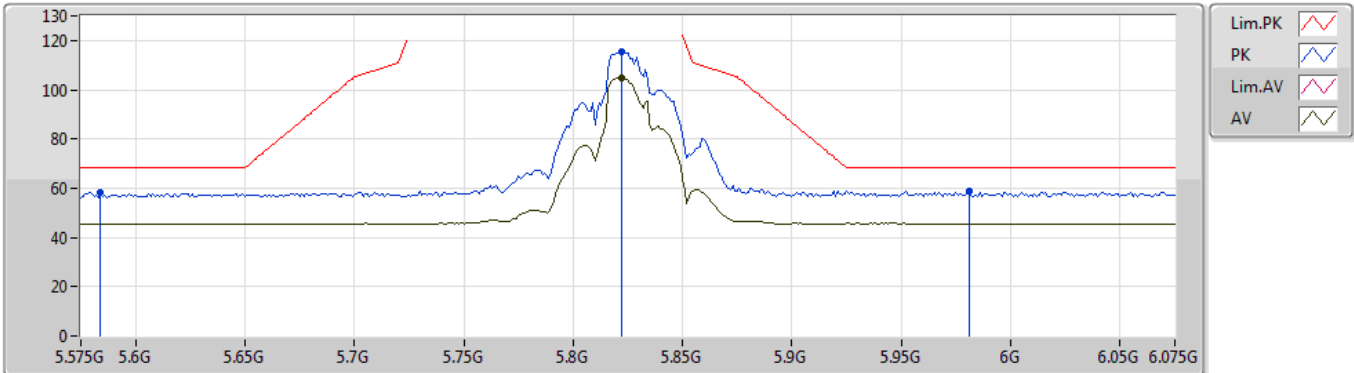
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.634G	58.64	68.20	-9.56	8.64	3	Vertical	187	1.05	-	50.00
PK	5.818G	117.05	Inf	-Inf	8.90	3	Vertical	187	1.05	-	108.15
AV	5.817G	106.08	Inf	-Inf	8.90	3	Vertical	187	1.05	-	97.18
PK	5.953G	58.42	68.20	-9.78	8.92	3	Vertical	187	1.05	-	49.50

802.11ac VHT20_Nss1,(MCS0)_2TX

01/11/2019

5825MHz_TX



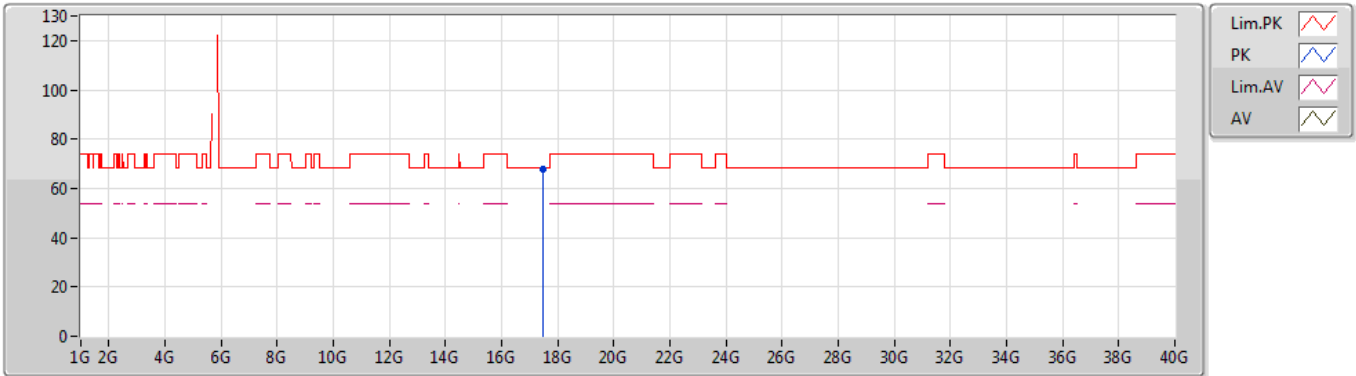
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.584G	58.23	68.20	-9.97	8.57	3	Horizontal	259	2.72	-	49.66			
PK	5.822G	115.71	Inf	-Inf	8.90	3	Horizontal	259	2.72	-	106.81			
AV	5.822G	104.99	Inf	-Inf	8.90	3	Horizontal	259	2.72	-	96.09			
PK	5.981G	58.93	68.20	-9.27	8.94	3	Horizontal	259	2.72	-	49.99			

802.11ac VHT20_Nss1,(MCS0)_2TX

02/11/2019

5825MHz_TX



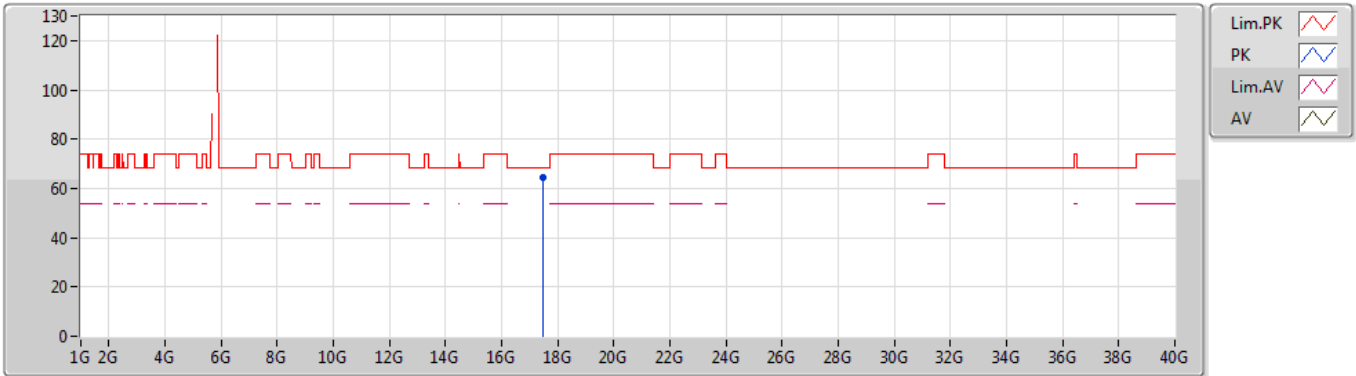
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)			
PK	17.48188G	67.61	68.20	-0.59	22.17	3	Vertical	268	2.88	-	45.44			

802.11ac VHT20_Nss1,(MCS0)_2TX

02/11/2019

5825MHz_TX



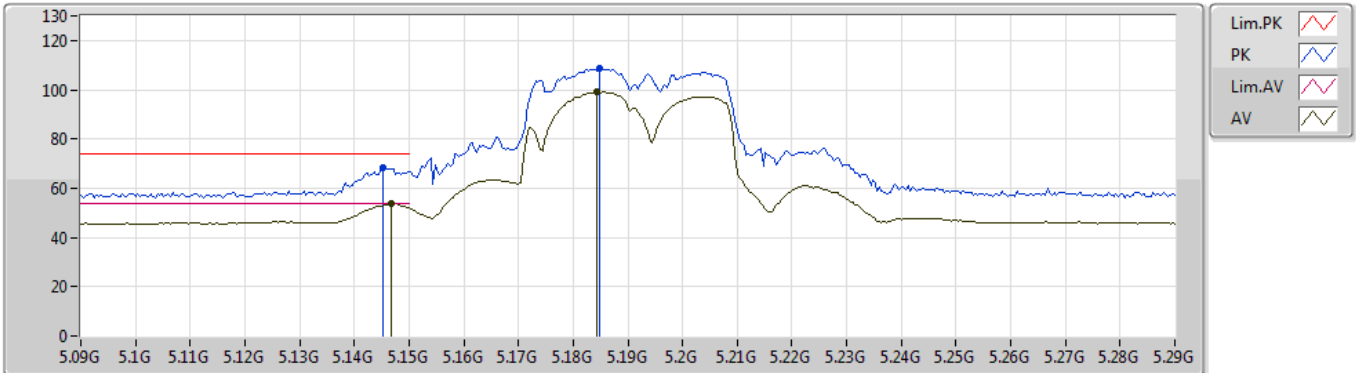
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Setting 26
02-S-5
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)			
PK	17.4822G	64.18	68.20	-4.02	22.18	3	Horizontal	147	3.00	-	42.00			

802.11ac VHT40_Nss1,(MCS0)_2TX

01/11/2019

5190MHz_TX



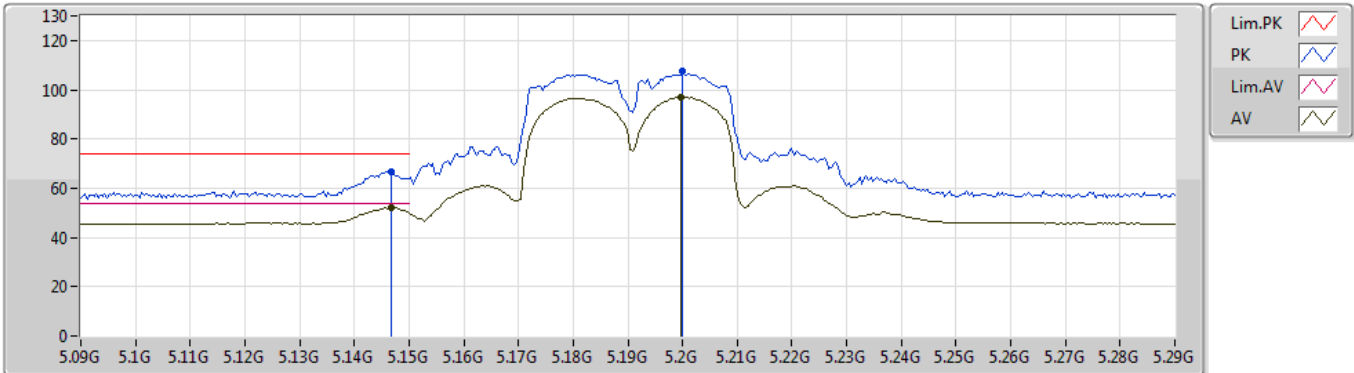
EUT_Z_2TX
Setting 17.5
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1452G	68.34	74.00	-5.66	7.94	3	Vertical	210	2.64	-	60.40			
AV	5.1468G	53.95	54.00	-0.05	7.94	3	Vertical	210	2.64	-	46.01			
PK	5.1848G	108.52	Inf	-Inf	8.03	3	Vertical	210	2.64	-	100.49			
AV	5.1844G	99.02	Inf	-Inf	8.03	3	Vertical	210	2.64	-	90.99			

802.11ac VHT40_Nss1,(MCS0)_2TX

01/11/2019

5190MHz_TX



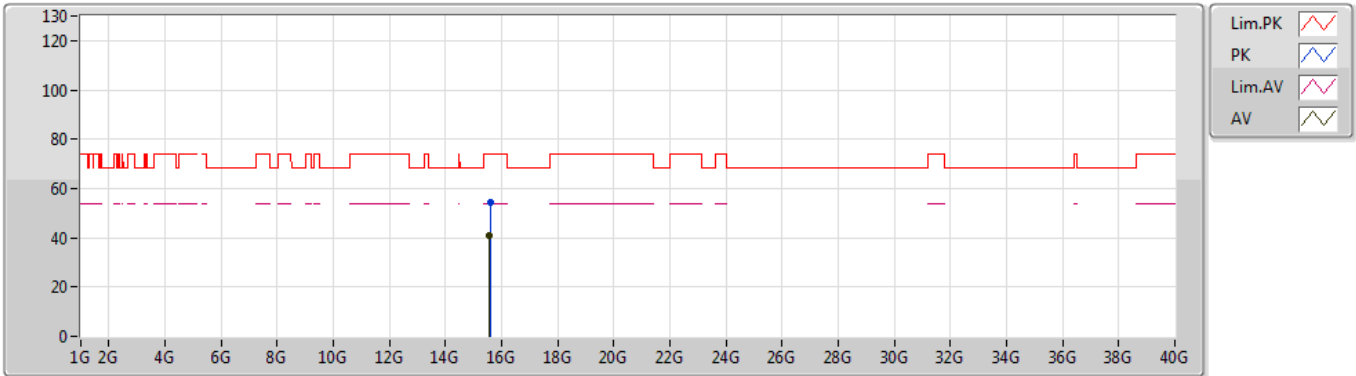
EUT_Z_2TX
Setting 17.5
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1468G	66.67	74.00	-7.33	7.94	3	Horizontal	144	2.91	-	58.73			
AV	5.1468G	52.27	54.00	-1.73	7.94	3	Horizontal	144	2.91	-	44.33			
PK	5.2G	107.71	Inf	-Inf	8.06	3	Horizontal	144	2.91	-	99.65			
AV	5.1996G	96.92	Inf	-Inf	8.06	3	Horizontal	144	2.91	-	88.86			

802.11ac VHT40_Nss1,(MCS0)_2TX

02/11/2019

5190MHz_TX



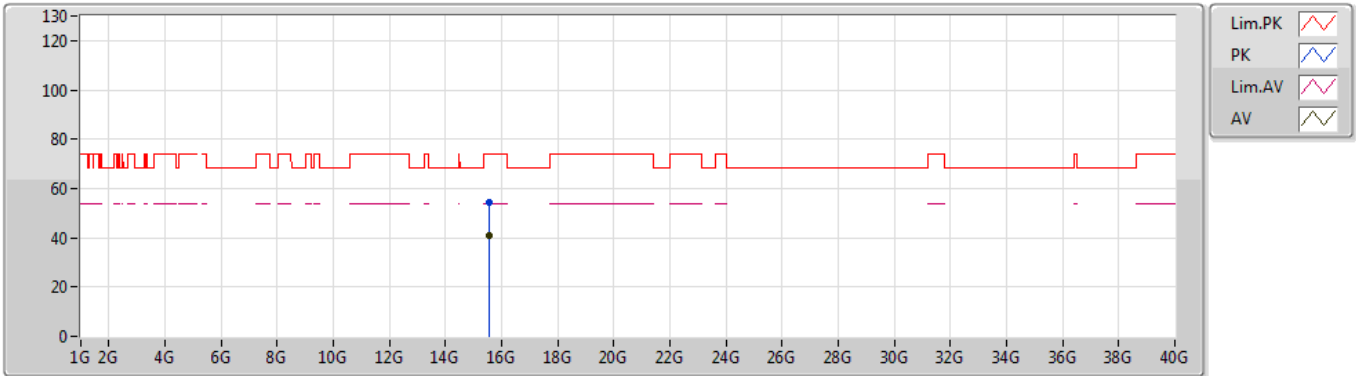
EUT_Z_2TX
Setting 17.5
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.58776G	54.47	74.00	-19.53	15.94	3	Vertical	89	1.92	-	38.53			
AV	15.55496G	41.00	54.00	-13.00	16.03	3	Vertical	89	1.92	-	24.97			

802.11ac VHT40_Nss1,(MCS0)_2TX

02/11/2019

5190MHz_TX



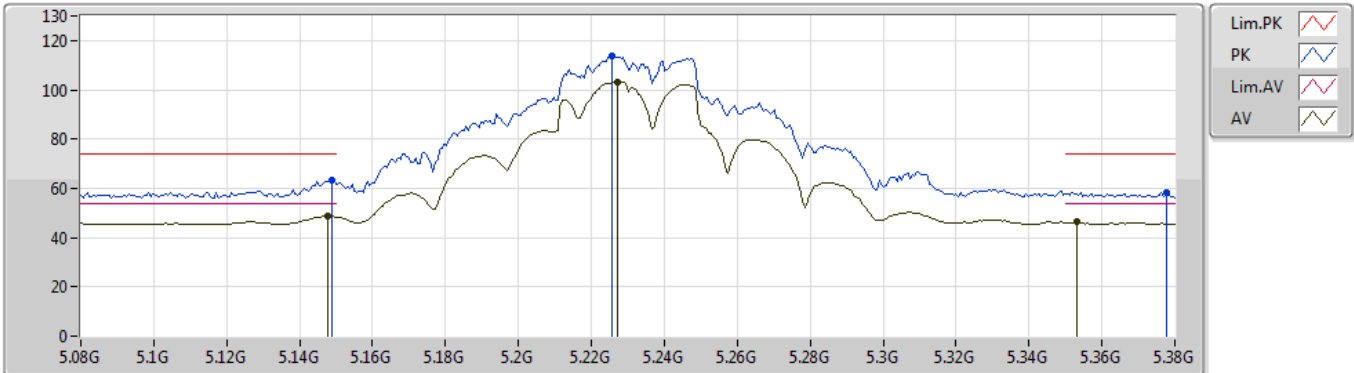
EUT_Z_2TX
Setting 17.5
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.55592G	54.27	74.00	-19.73	16.03	3	Horizontal	284	2.51	-	38.24			
AV	15.56056G	40.78	54.00	-13.22	16.01	3	Horizontal	284	2.51	-	24.77			

802.11ac VHT40_Nss1,(MCS0)_2TX

01/11/2019

5230MHz_TX



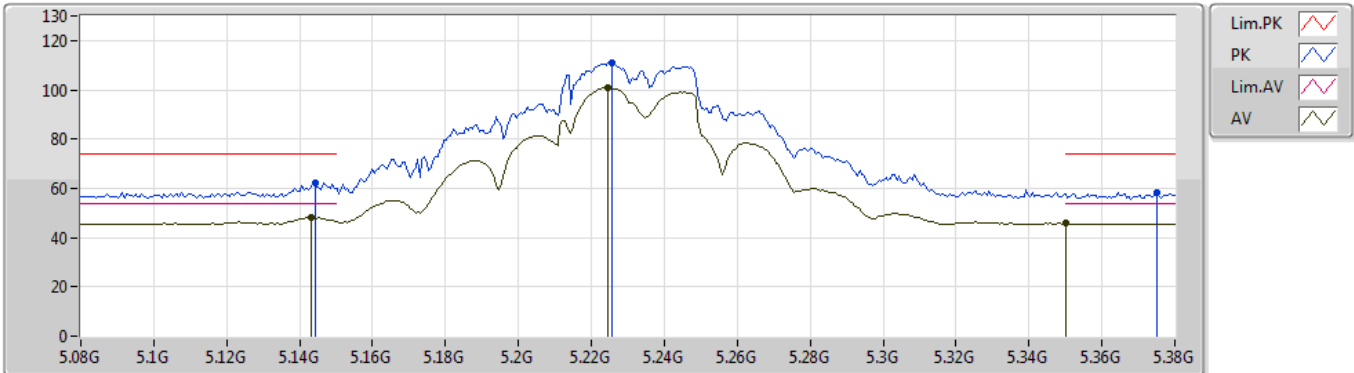
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.149G	63.31	74.00	-10.69	7.94	3	Vertical	201	2.85	-	55.37			
AV	5.1478G	48.81	54.00	-5.19	7.94	3	Vertical	201	2.85	-	40.87			
PK	5.2258G	113.75	Inf	-Inf	8.10	3	Vertical	201	2.85	-	105.65			
AV	5.227G	103.36	Inf	-Inf	8.10	3	Vertical	201	2.85	-	95.26			
PK	5.3776G	58.43	74.00	-15.57	8.32	3	Vertical	201	2.85	-	50.11			
AV	5.353G	46.28	54.00	-7.72	8.28	3	Vertical	201	2.85	-	38.00			

802.11ac VHT40_Nss1,(MCS0)_2TX

01/11/2019

5230MHz_TX



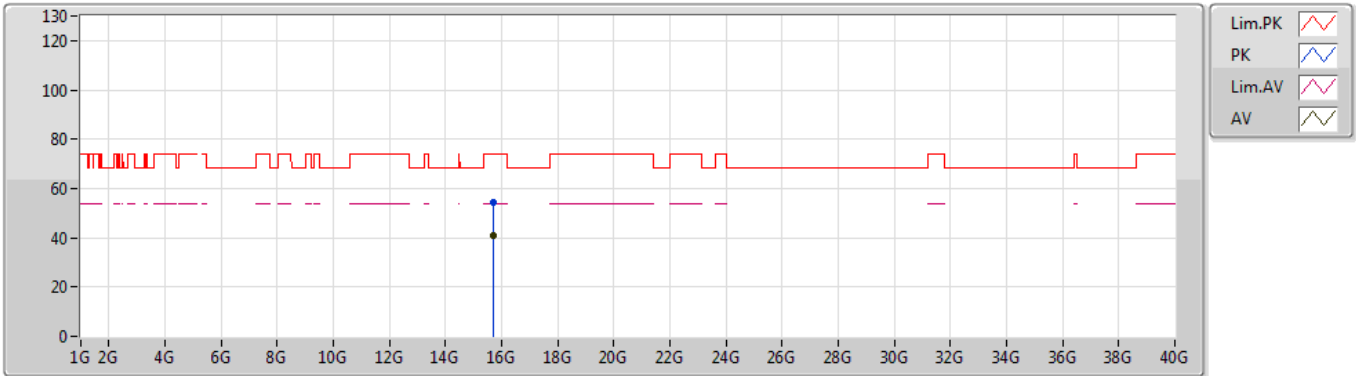
EUT Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1442G	62.34	74.00	-11.66	7.94	3	Horizontal	286	1.01	-	54.40			
AV	5.143G	48.10	54.00	-5.90	7.94	3	Horizontal	286	1.01	-	40.16			
PK	5.2258G	110.86	Inf	-Inf	8.10	3	Horizontal	286	1.01	-	102.76			
AV	5.2246G	100.82	Inf	-Inf	8.10	3	Horizontal	286	1.01	-	92.72			
PK	5.3752G	58.15	74.00	-15.85	8.31	3	Horizontal	286	1.01	-	49.84			
AV	5.35G	45.81	54.00	-8.19	8.28	3	Horizontal	286	1.01	-	37.53			

802.11ac VHT40_Nss1,(MCS0)_2TX

02/11/2019

5230MHz_TX



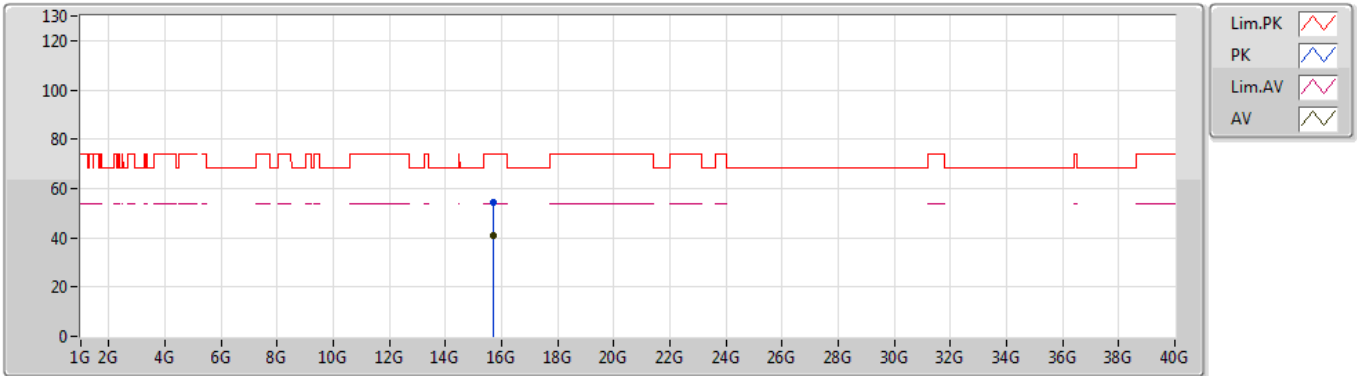
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.70472G	54.10	74.00	-19.90	15.64	3	Vertical	127	2.80	-	38.46			
AV	15.69904G	40.73	54.00	-13.27	15.65	3	Vertical	127	2.80	-	25.08			

802.11ac VHT40_Nss1,(MCS0)_2TX

02/11/2019

5230MHz_TX



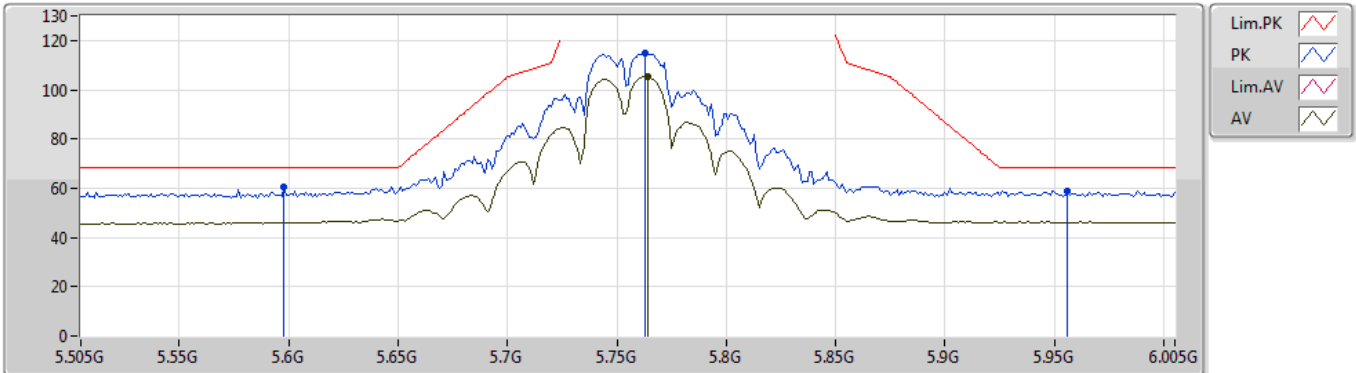
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Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.68872G	54.19	74.00	-19.81	15.68	3	Horizontal	161	2.41	-	38.51			
AV	15.70888G	40.72	54.00	-13.28	15.62	3	Horizontal	161	2.41	-	25.10			

802.11ac VHT40_Nss1,(MCS0)_2TX

01/11/2019

5755MHz_TX



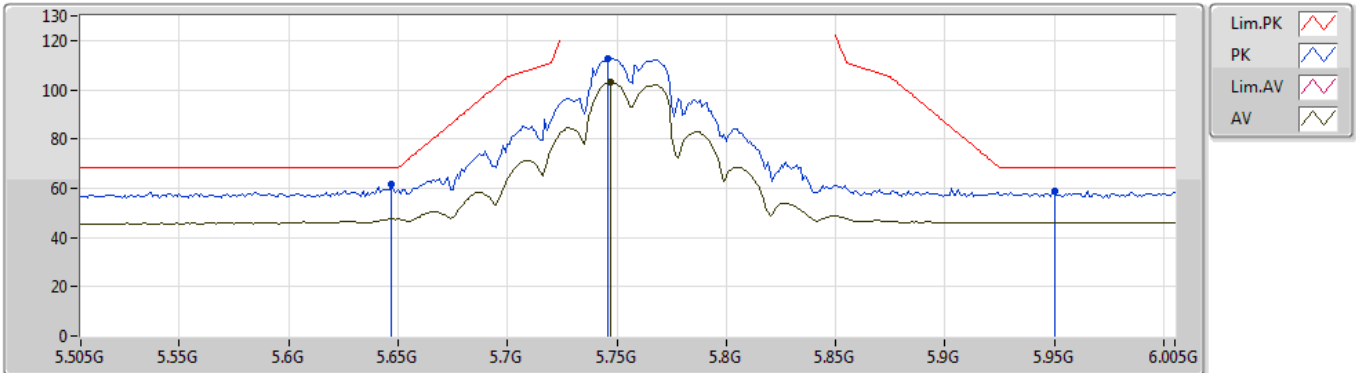
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Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.598G	60.42	68.20	-7.78	8.58	3	Vertical	190	1.12	-	51.84			
PK	5.763G	115.12	Inf	-Inf	8.84	3	Vertical	190	1.12	-	106.28			
AV	5.764G	105.30	Inf	-Inf	8.84	3	Vertical	190	1.12	-	96.46			
PK	5.956G	59.04	68.20	-9.16	8.92	3	Vertical	190	1.12	-	50.12			

802.11ac VHT40_Nss1,(MCS0)_2TX

01/11/2019

5755MHz_TX



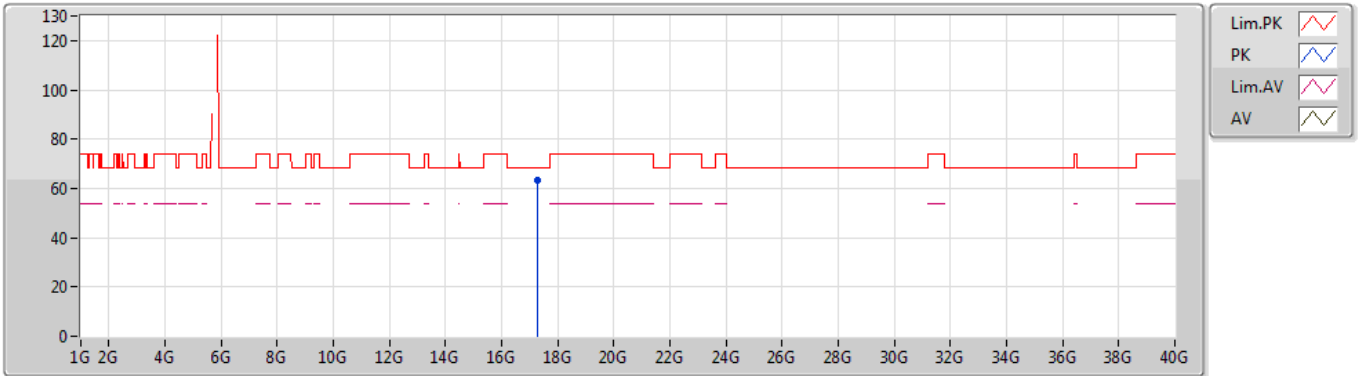
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.647G	61.51	68.20	-6.69	8.67	3	Horizontal	255	2.92	-	52.84			
PK	5.746G	112.86	Inf	-Inf	8.82	3	Horizontal	255	2.92	-	104.04			
AV	5.747G	103.01	Inf	-Inf	8.82	3	Horizontal	255	2.92	-	94.19			
PK	5.95G	59.07	68.20	-9.13	8.93	3	Horizontal	255	2.92	-	50.14			

802.11ac VHT40_Nss1,(MCS0)_2TX

02/11/2019

5755MHz_TX



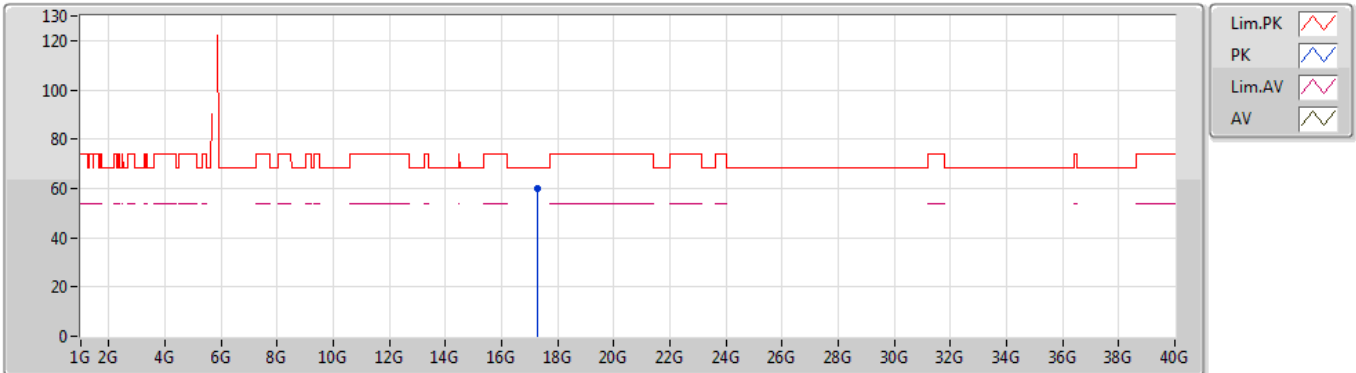
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	17.26596G	63.48	68.20	-4.72	20.89	3	Vertical	204	2.66	-	42.59			

802.11ac VHT40_Nss1,(MCS0)_2TX

02/11/2019

5755MHz_TX



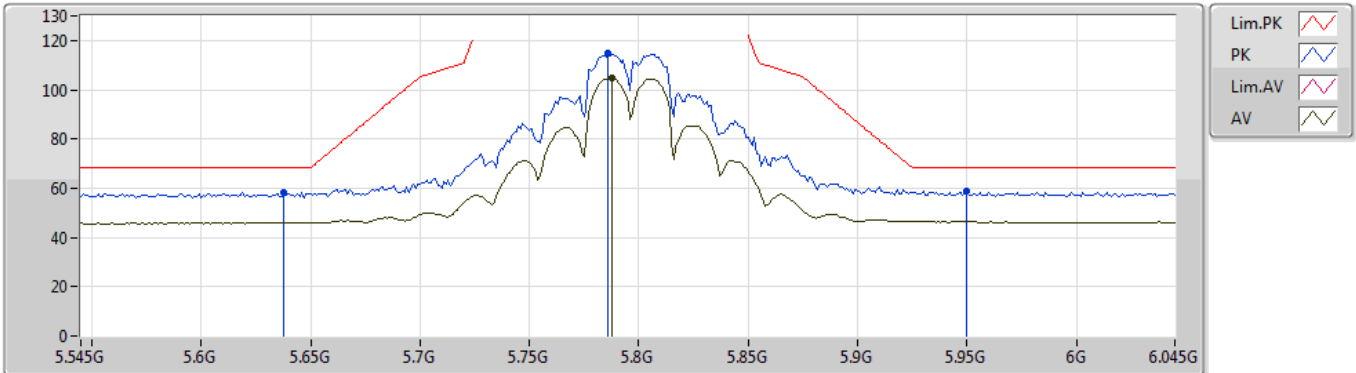
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	17.27988G	59.72	68.20	-8.48	20.97	3	Horizontal	170	2.38	-	38.75			

802.11ac VHT40_Nss1,(MCS0)_2TX

01/11/2019

5795MHz_TX



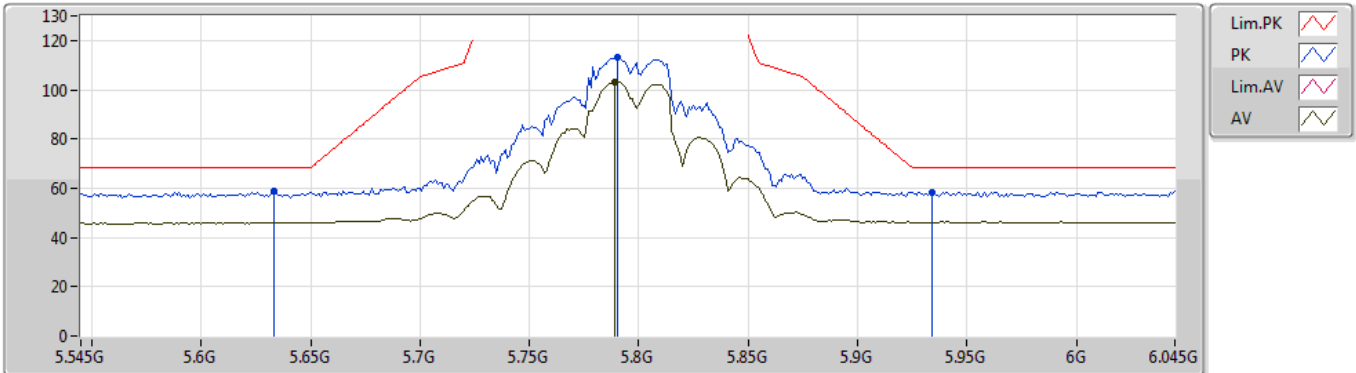
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.638G	58.24	68.20	-9.96	8.64	3	Vertical	193	1.05	-	49.60			
PK	5.786G	114.90	Inf	-Inf	8.88	3	Vertical	193	1.05	-	106.02			
AV	5.788G	104.60	Inf	-Inf	8.87	3	Vertical	193	1.05	-	95.73			
PK	5.95G	59.06	68.20	-9.14	8.93	3	Vertical	193	1.05	-	50.13			

802.11ac VHT40_Nss1,(MCS0)_2TX

01/11/2019

5795MHz_TX



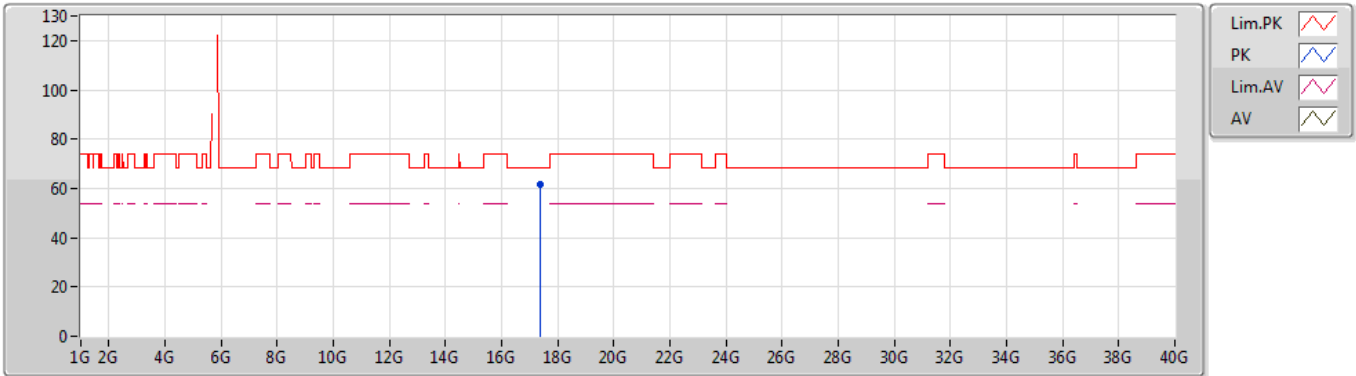
EUT_Z_2TX
Setting 26
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.633G	58.60	68.20	-9.60	8.64	3	Horizontal	266	2.86	-	49.96
PK	5.79G	113.05	Inf	-Inf	8.88	3	Horizontal	266	2.86	-	104.17
AV	5.789G	103.20	Inf	-Inf	8.88	3	Horizontal	266	2.86	-	94.32
PK	5.934G	58.40	68.20	-9.80	8.93	3	Horizontal	266	2.86	-	49.47

802.11ac VHT40_Nss1,(MCS0)_2TX

02/11/2019

5795MHz_TX



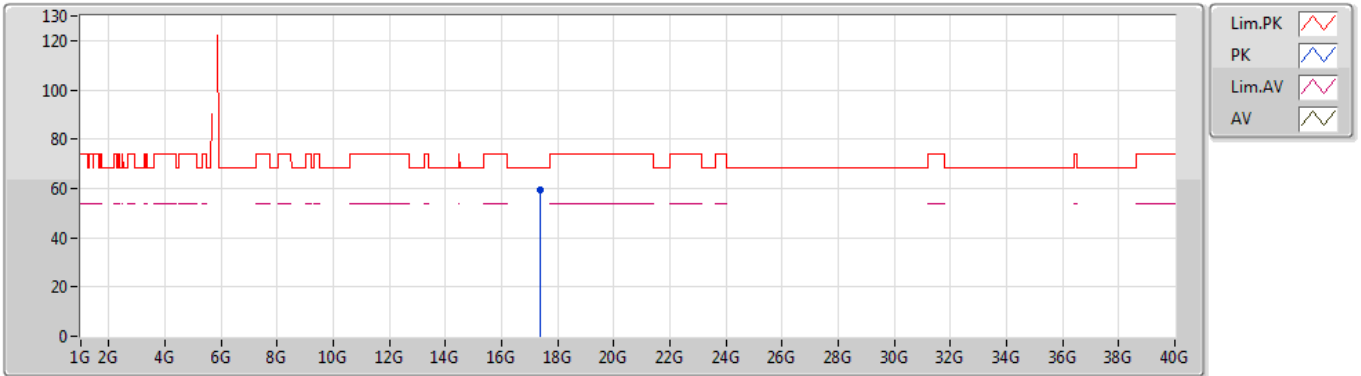
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	17.38772G	61.48	68.20	-6.72	21.61	3	Vertical	143	2.50	-	39.87			

802.11ac VHT40_Nss1,(MCS0)_2TX

02/11/2019

5795MHz_TX



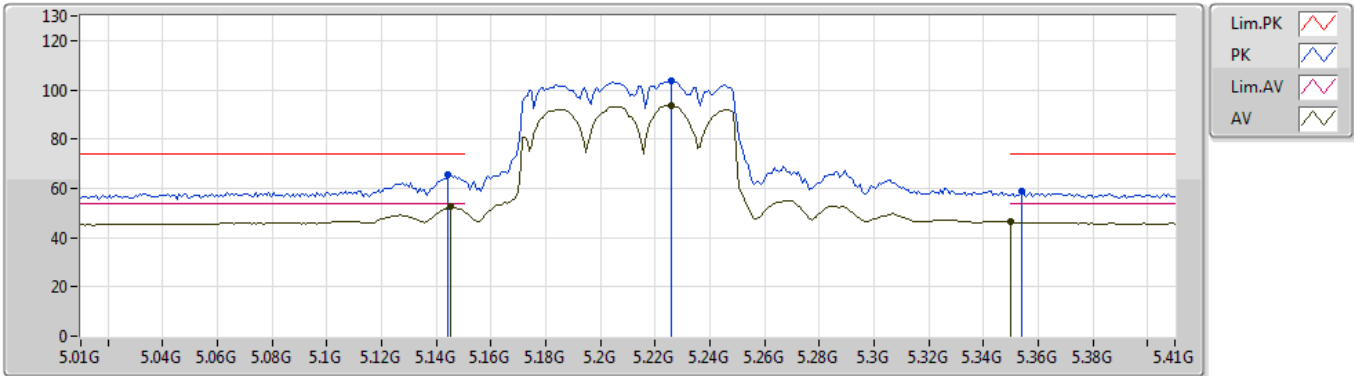
EUT_Z_2TX
Setting 26
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	17.3842G	59.61	68.20	-8.59	21.60	3	Horizontal	347	1.06	-	38.01			

802.11ac VHT80_Nss1,(MCS0)_2TX

01/11/2019

5210MHz_TX



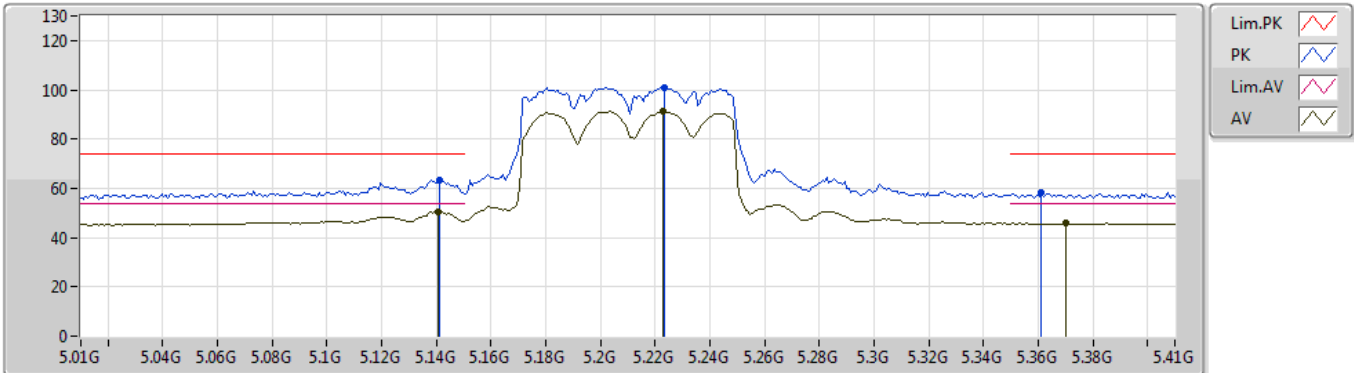
EUT_Z_2TX
Setting 16
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1444G	65.63	74.00	-8.37	7.94	3	Vertical	190	2.75	-	57.69			
AV	5.1452G	52.62	54.00	-1.38	7.94	3	Vertical	190	2.75	-	44.68			
PK	5.226G	103.61	Inf	-Inf	8.10	3	Vertical	190	2.75	-	95.51			
AV	5.226G	93.60	Inf	-Inf	8.10	3	Vertical	190	2.75	-	85.50			
PK	5.354G	58.74	74.00	-15.26	8.28	3	Vertical	190	2.75	-	50.46			
AV	5.35G	46.47	54.00	-7.53	8.28	3	Vertical	190	2.75	-	38.19			

802.11ac VHT80_Nss1,(MCS0)_2TX

01/11/2019

5210MHz_TX



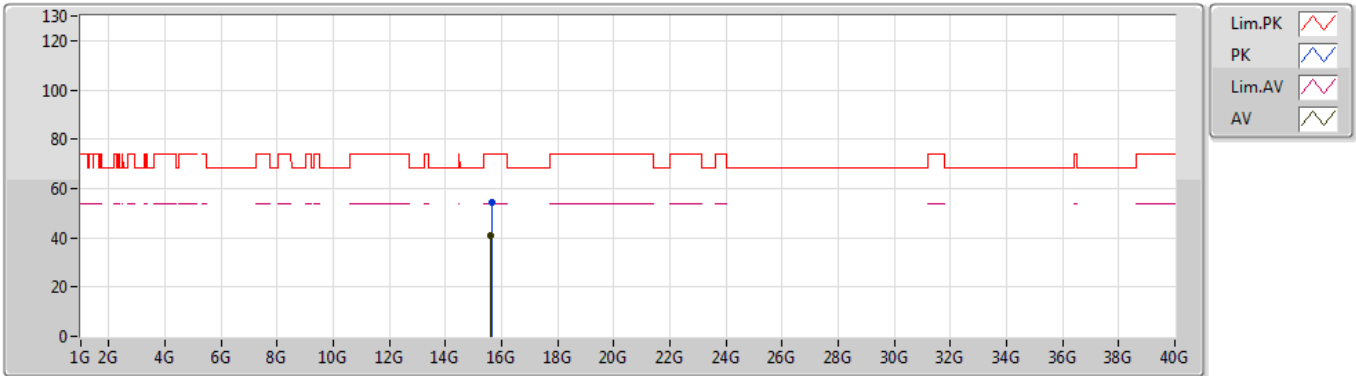
EUT_Z_2TX
Setting 16
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1412G	63.36	74.00	-10.64	7.94	3	Horizontal	298	2.54	-	55.42
AV	5.1404G	50.38	54.00	-3.62	7.93	3	Horizontal	298	2.54	-	42.45
PK	5.2236G	101.04	Inf	-Inf	8.10	3	Horizontal	298	2.54	-	92.94
AV	5.2228G	91.29	Inf	-Inf	8.10	3	Horizontal	298	2.54	-	83.19
PK	5.3612G	58.34	74.00	-15.66	8.29	3	Horizontal	298	2.54	-	50.05
AV	5.37G	45.70	54.00	-8.30	8.30	3	Horizontal	298	2.54	-	37.40

802.11ac VHT80_Nss1,(MCS0)_2TX

02/11/2019

5210MHz_TX



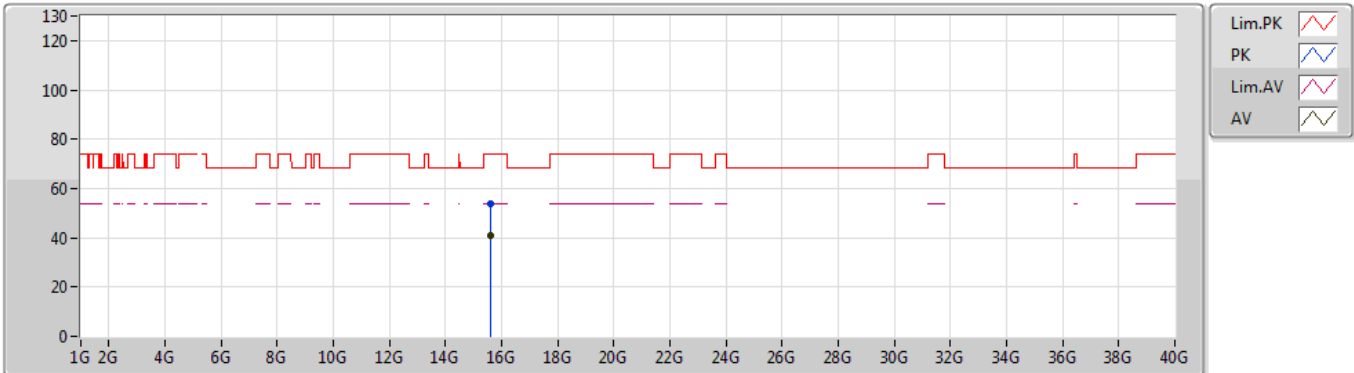
EUT_Z_2TX
Setting 16
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.63976G	54.20	74.00	-19.80	15.80	3	Vertical	318	2.71	-	38.40			
AV	15.62152G	41.06	54.00	-12.94	15.86	3	Vertical	318	2.71	-	25.20			

802.11ac VHT80_Nss1,(MCS0)_2TX

02/11/2019

5210MHz_TX



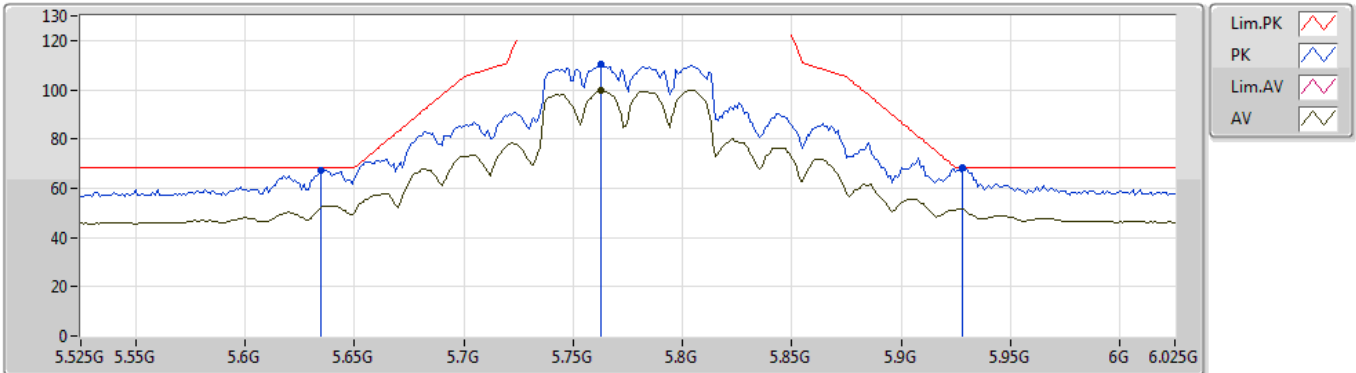
EUT_Z_2TX
Setting 16
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	15.6244G	53.70	74.00	-20.30	15.85	3	Horizontal	299	2.30	-	37.85			
AV	15.62568G	40.82	54.00	-13.18	15.85	3	Horizontal	299	2.30	-	24.97			

802.11ac VHT80_Nss1,(MCS0)_2TX

01/11/2019

5775MHz_TX



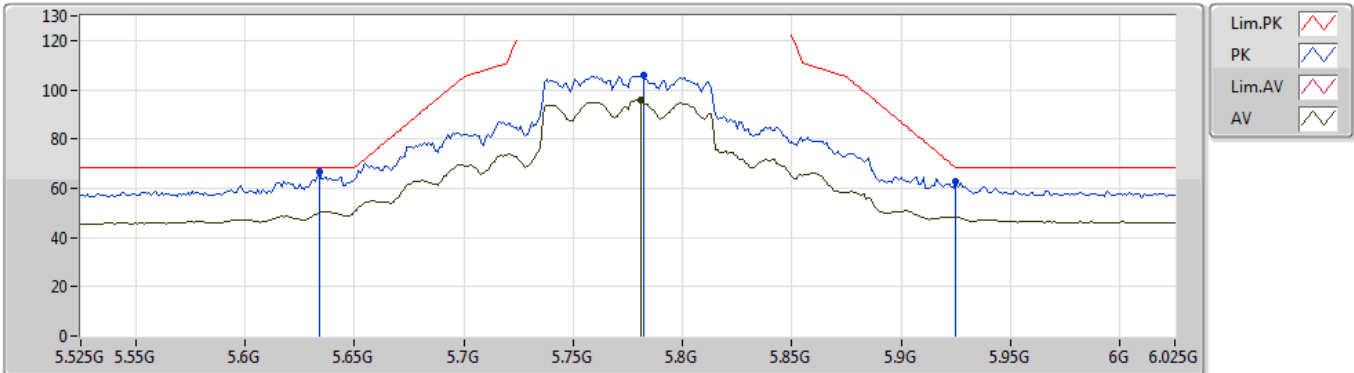
EUT_Z_2TX
Setting 21
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.635G	67.29	68.20	-0.91	8.64	3	Vertical	193	1.41	-	58.65			
PK	5.763G	110.37	Inf	-Inf	8.84	3	Vertical	193	1.41	-	101.53			
AV	5.763G	99.83	Inf	-Inf	8.84	3	Vertical	193	1.41	-	90.99			
PK	5.928G	68.12	68.20	-0.08	8.93	3	Vertical	193	1.41	-	59.19			

802.11ac VHT80_Nss1,(MCS0)_2TX

06/11/2019

5775MHz_TX



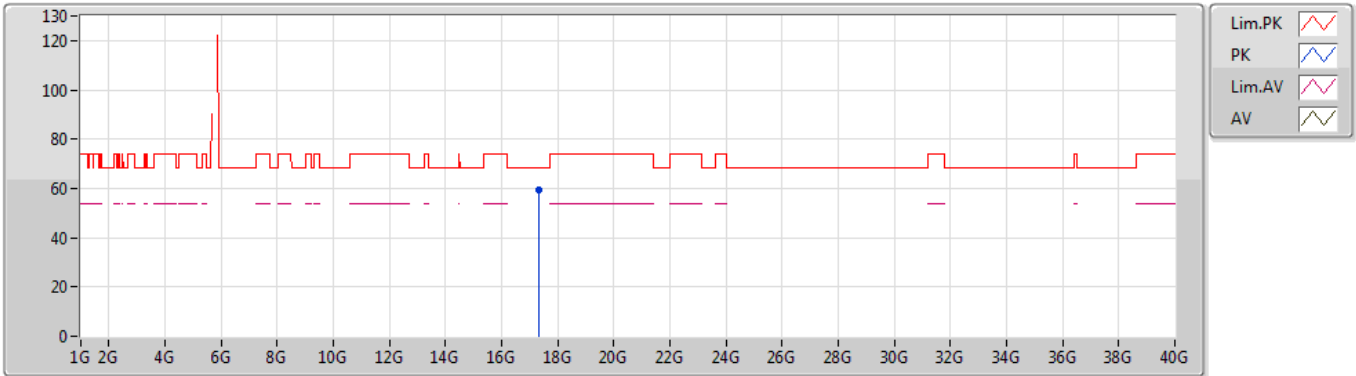
EUT_Z_2TX
Setting 21
02-G-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.634G	66.75	68.20	-1.45	8.64	3	Horizontal	167	1.06	-	58.11
PK	5.782G	105.63	Inf	-Inf	8.88	3	Horizontal	167	1.06	-	96.75
AV	5.781G	95.91	Inf	-Inf	8.88	3	Horizontal	167	1.06	-	87.03
PK	5.925G	62.60	68.20	-5.60	8.93	3	Horizontal	167	1.06	-	53.67

802.11ac VHT80_Nss1,(MCS0)_2TX

02/11/2019

5775MHz_TX



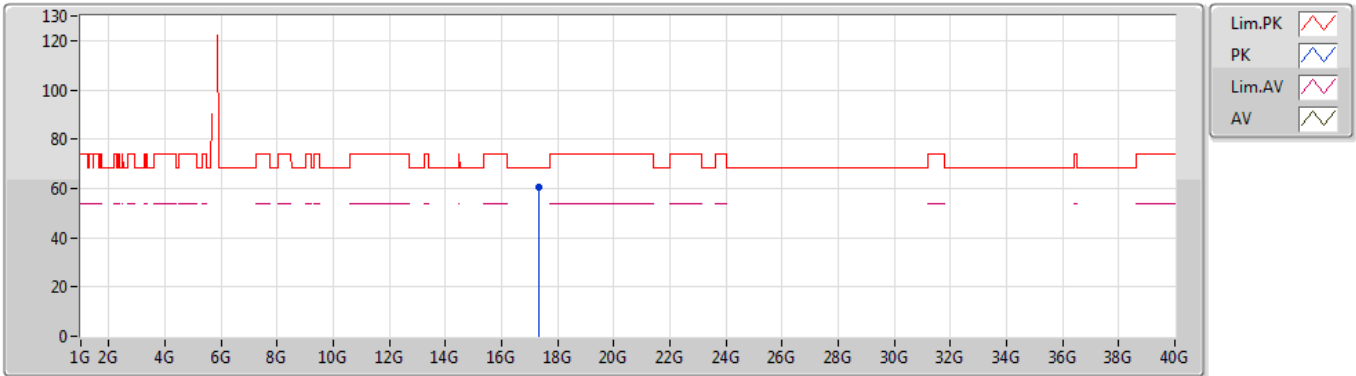
EUT_Z_2TX
Setting 21
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	17.3218G	59.49	68.20	-8.71	21.23	3	Vertical	161	2.41	-	38.26			

802.11ac VHT80_Nss1,(MCS0)_2TX

02/11/2019

5775MHz_TX



EUT_Z_2TX
Setting 21
02-S-5
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	17.33284G	60.39	68.20	-7.81	21.29	3	Horizontal	71	2.02	-	39.10			



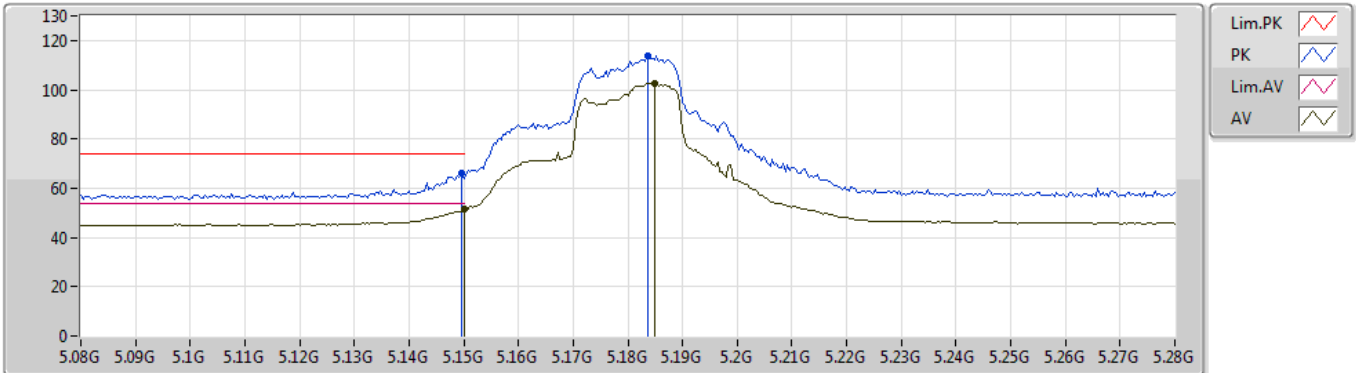
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	Pass	AV	5.15G	52.00	54.00	-2.00	5.50	3	Horizontal	261	2.99	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5180MHz_TX



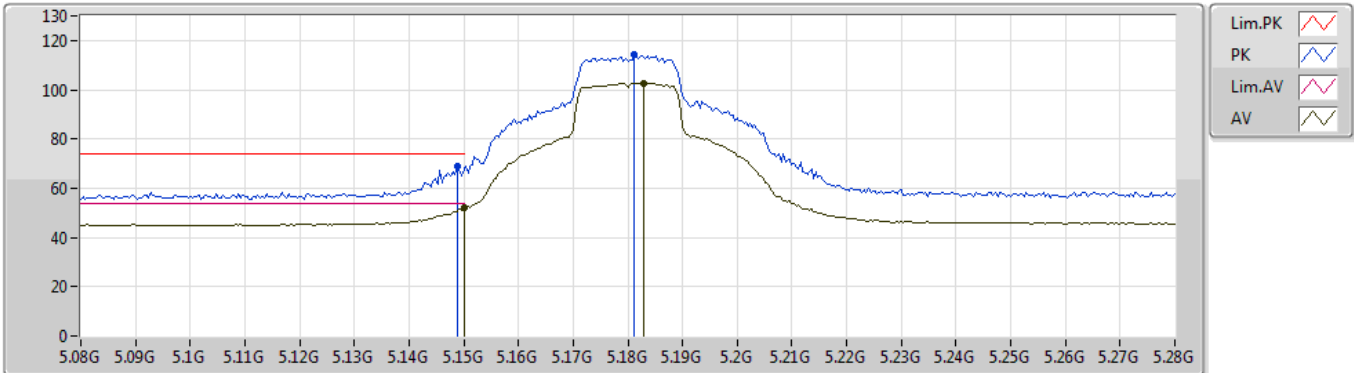
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1496G	66.23	74.00	-7.77	5.50	3	Vertical	199	2.52	-	60.73			
AV	5.15G	51.33	54.00	-2.67	5.50	3	Vertical	199	2.52	-	45.83			
PK	5.1836G	113.92	Inf	-Inf	5.59	3	Vertical	199	2.52	-	108.33			
AV	5.1848G	102.45	Inf	-Inf	5.59	3	Vertical	199	2.52	-	96.86			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5180MHz_TX



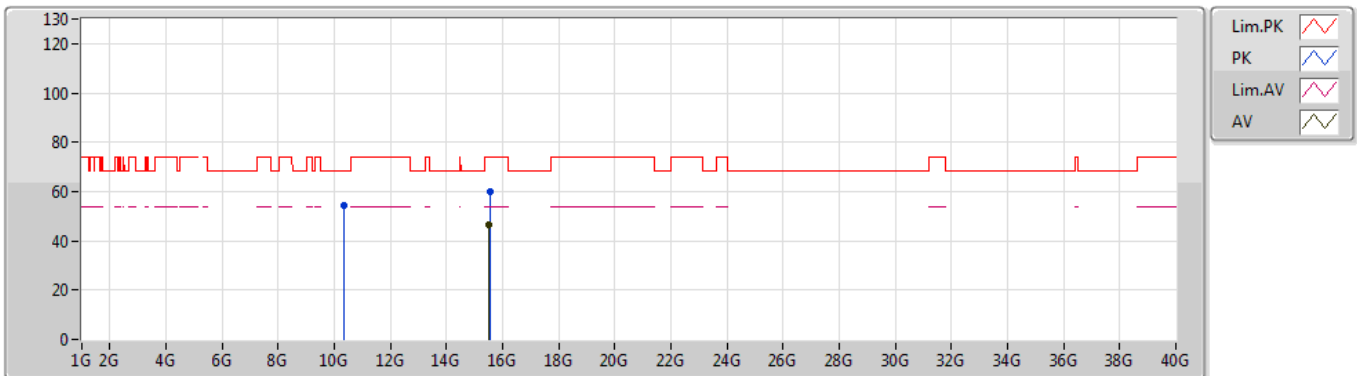
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1488G	68.71	74.00	-5.29	5.50	3	Horizontal	261	2.99	-	63.21
AV	5.15G	52.00	54.00	-2.00	5.50	3	Horizontal	261	2.99	-	46.50
PK	5.1812G	114.08	Inf	-Inf	5.58	3	Horizontal	261	2.99	-	108.50
AV	5.1828G	102.72	Inf	-Inf	5.59	3	Horizontal	261	2.99	-	97.13

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5180MHz_TX



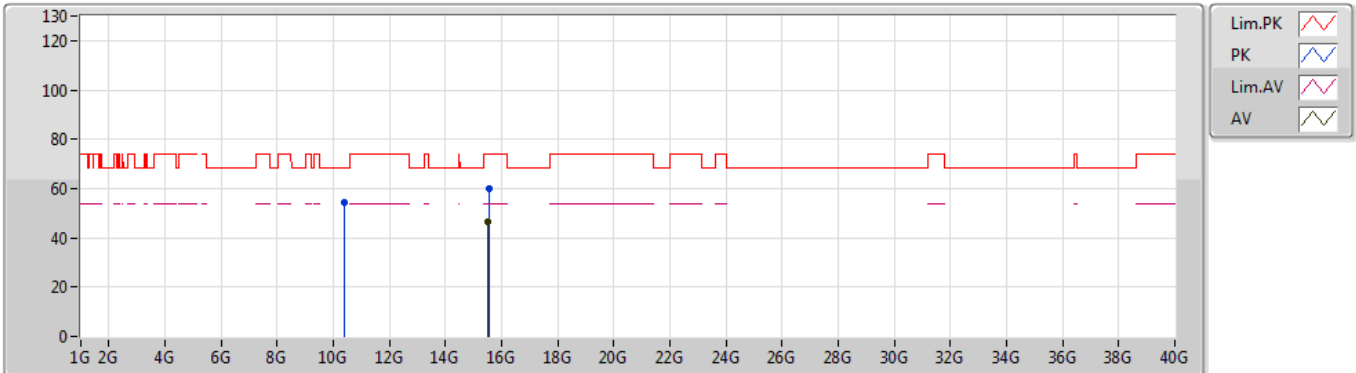
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.3449G	54.40	68.20	-13.80	12.17	3	Vertical	113	2.62	-	42.23			
PK	15.5634G	59.95	74.00	-14.05	14.32	3	Vertical	31	2.17	-	45.63			
AV	15.5292G	46.63	54.00	-7.37	14.44	3	Vertical	31	2.17	-	32.19			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5180MHz_TX



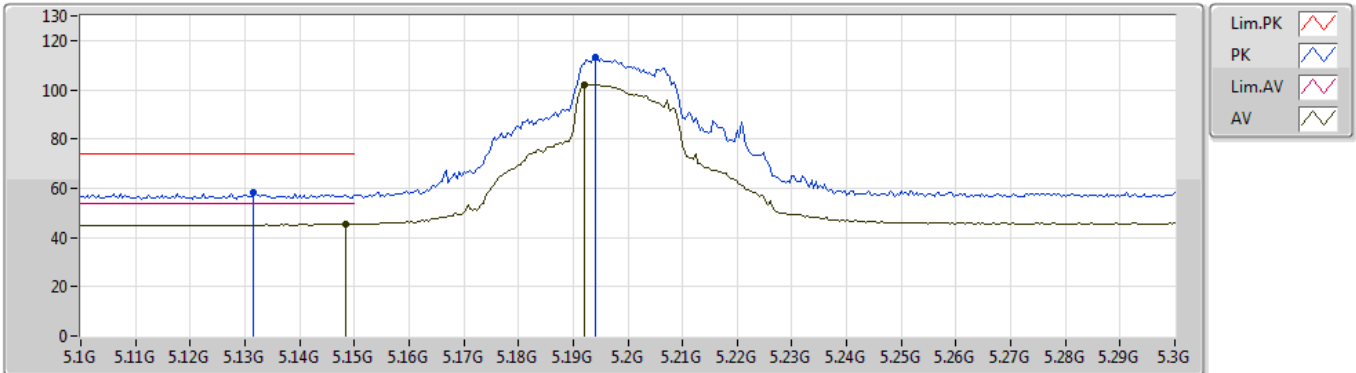
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.3831G	54.14	68.20	-14.06	12.21	3	Horizontal	250	1.74	-	41.93			
PK	15.545G	60.05	74.00	-13.95	14.38	3	Horizontal	181	1.41	-	45.67			
AV	15.5294G	46.61	54.00	-7.39	14.44	3	Horizontal	181	1.41	-	32.17			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5200MHz_TX



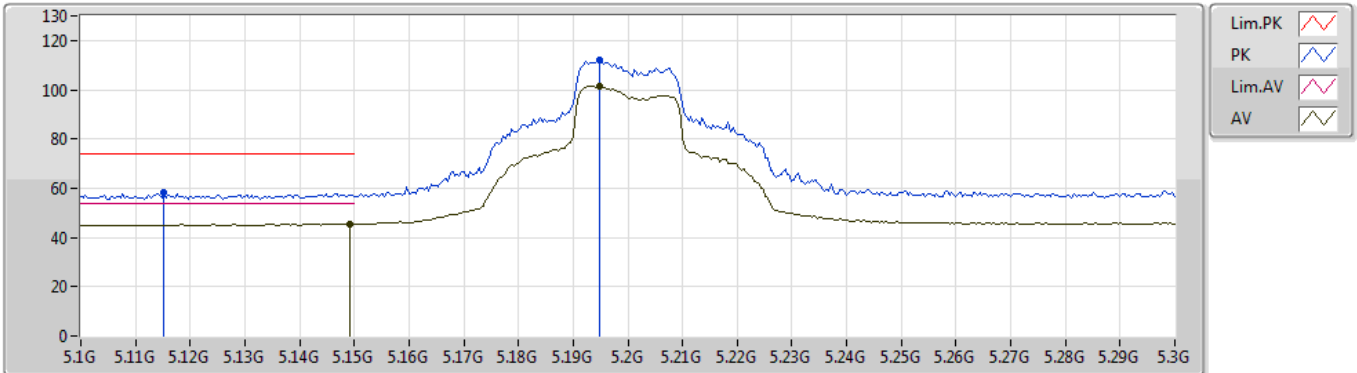
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1316G	58.39	74.00	-15.61	5.45	3	Vertical	188	2.73	-	52.94			
AV	5.1484G	45.54	54.00	-8.46	5.50	3	Vertical	188	2.73	-	40.04			
PK	5.194G	113.30	Inf	-Inf	5.62	3	Vertical	188	2.73	-	107.68			
AV	5.192G	102.05	Inf	-Inf	5.61	3	Vertical	188	2.73	-	96.44			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5200MHz_TX



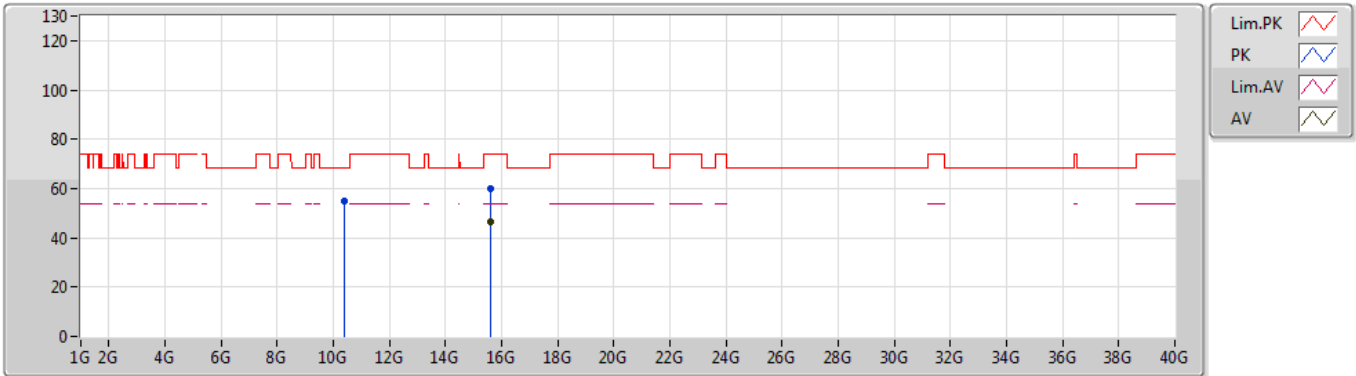
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1152G	58.33	74.00	-15.67	5.41	3	Horizontal	284	1.03	-	52.92			
AV	5.1492G	45.42	54.00	-8.58	5.50	3	Horizontal	284	1.03	-	39.92			
PK	5.1948G	112.02	Inf	-Inf	5.62	3	Horizontal	284	1.03	-	106.40			
AV	5.1948G	101.40	Inf	-Inf	5.62	3	Horizontal	284	1.03	-	95.78			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5200MHz_TX



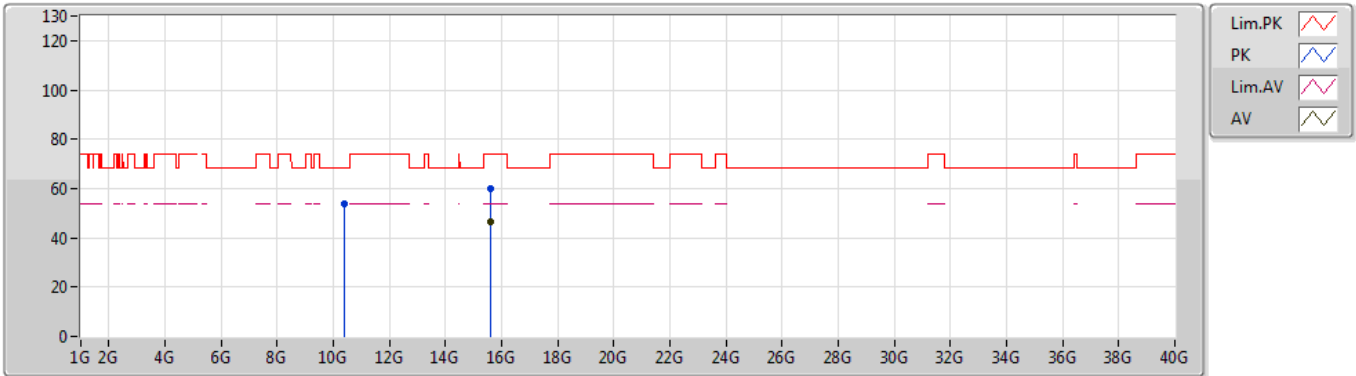
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.3812G	54.84	68.20	-13.36	12.21	3	Vertical	158	1.68	-	42.63			
PK	15.5978G	59.84	74.00	-14.16	14.19	3	Vertical	13	1.73	-	45.65			
AV	15.6019G	46.72	54.00	-7.28	14.17	3	Vertical	13	1.73	-	32.55			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5200MHz_TX



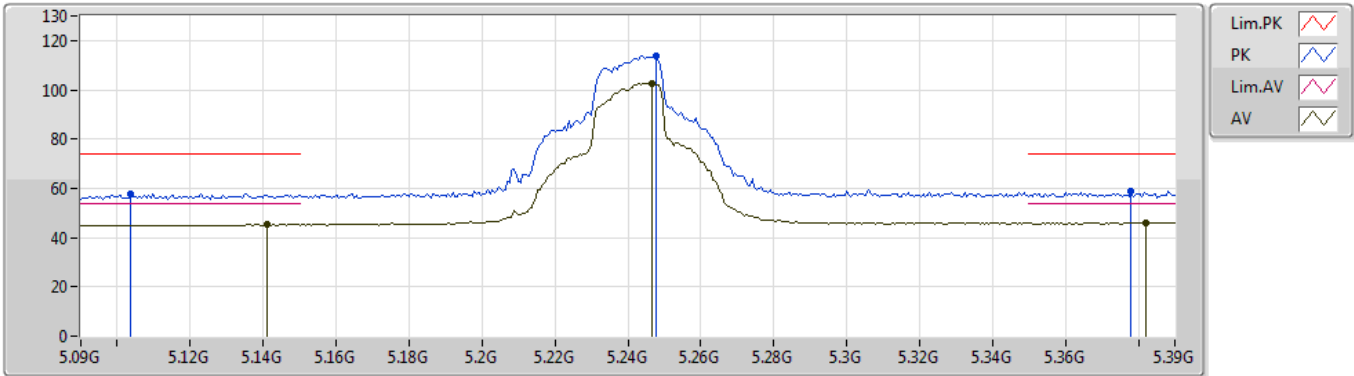
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.3947G	53.95	68.20	-14.25	12.22	3	Horizontal	287	2.10	-	41.73			
PK	15.5932G	59.79	74.00	-14.21	14.21	3	Horizontal	152	1.95	-	45.58			
AV	15.6099G	46.53	54.00	-7.47	14.15	3	Horizontal	152	1.95	-	32.38			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5240MHz_TX



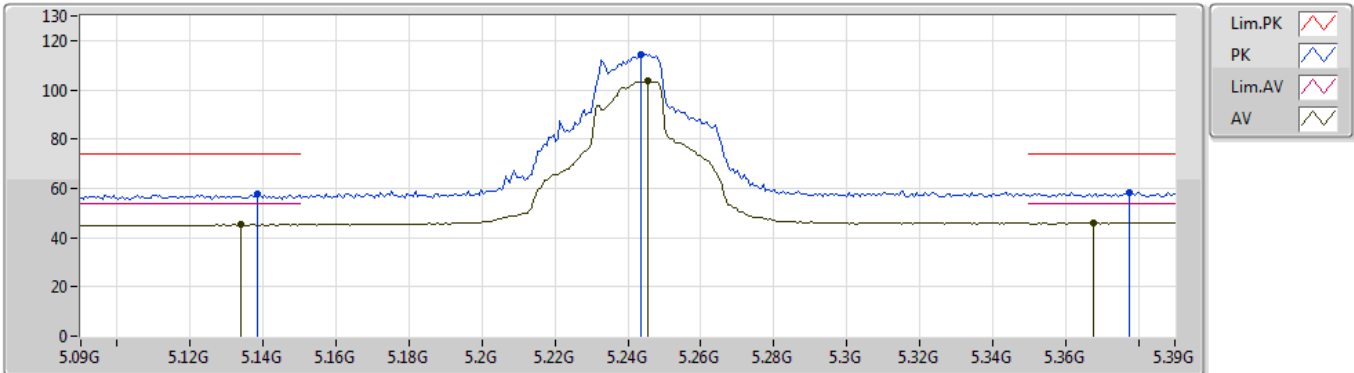
EUT Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1038G	57.94	74.00	-16.06	5.37	3	Vertical	79	2.52	-	52.57			
AV	5.141G	45.32	54.00	-8.68	5.48	3	Vertical	79	2.52	-	39.84			
PK	5.2478G	113.67	Inf	-Inf	5.72	3	Vertical	79	2.52	-	107.95			
AV	5.2466G	102.80	Inf	-Inf	5.71	3	Vertical	79	2.52	-	97.09			
PK	5.378G	58.90	74.00	-15.10	5.83	3	Vertical	79	2.52	-	53.07			
AV	5.3822G	46.09	54.00	-7.91	5.83	3	Vertical	79	2.52	-	40.26			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5240MHz_TX



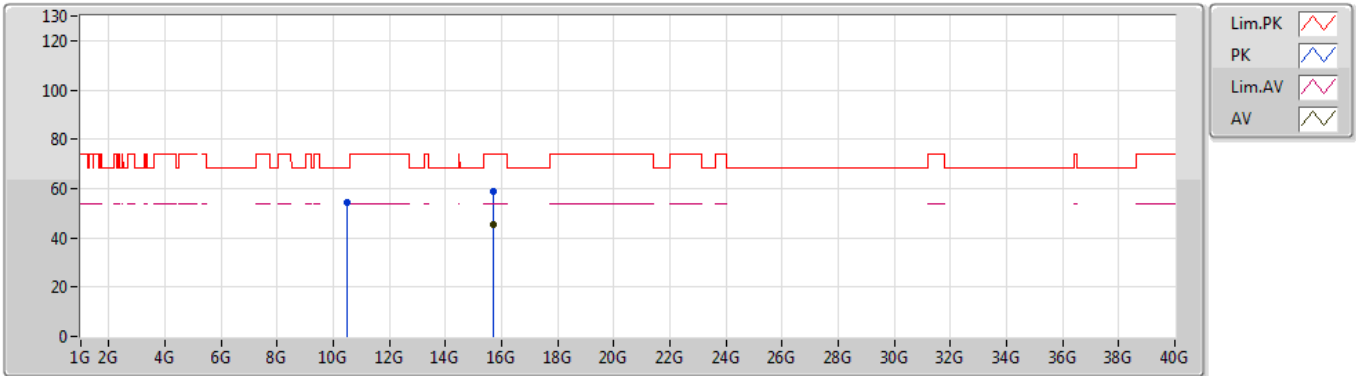
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1386G	57.47	74.00	-16.53	5.47	3	Horizontal	81	2.98	-	52.00			
AV	5.1386G	45.34	54.00	-8.66	5.45	3	Horizontal	81	2.98	-	39.89			
PK	5.2436G	114.34	Inf	-Inf	5.71	3	Horizontal	81	2.98	-	108.63			
AV	5.2454G	103.74	Inf	-Inf	5.71	3	Horizontal	81	2.98	-	98.03			
PK	5.3774G	58.32	74.00	-15.68	5.83	3	Horizontal	81	2.98	-	52.49			
AV	5.3678G	46.16	54.00	-7.84	5.82	3	Horizontal	81	2.98	-	40.34			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5240MHz_TX



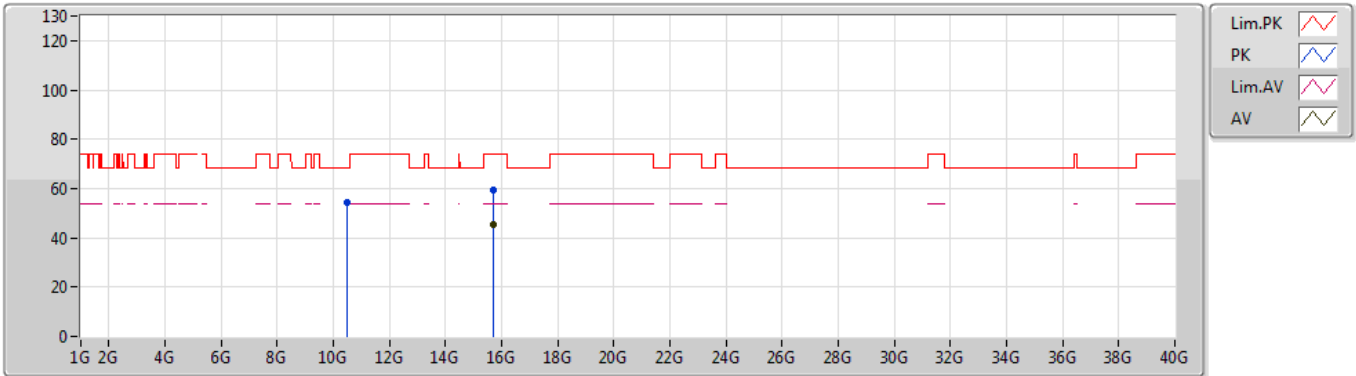
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.4771G	54.37	68.20	-13.83	12.29	3	Vertical	309	2.31	-	42.08			
PK	15.7139G	58.68	74.00	-15.32	13.78	3	Vertical	107	1.80	-	44.90			
AV	15.7274G	45.40	54.00	-8.60	13.72	3	Vertical	107	1.80	-	31.68			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5240MHz_TX



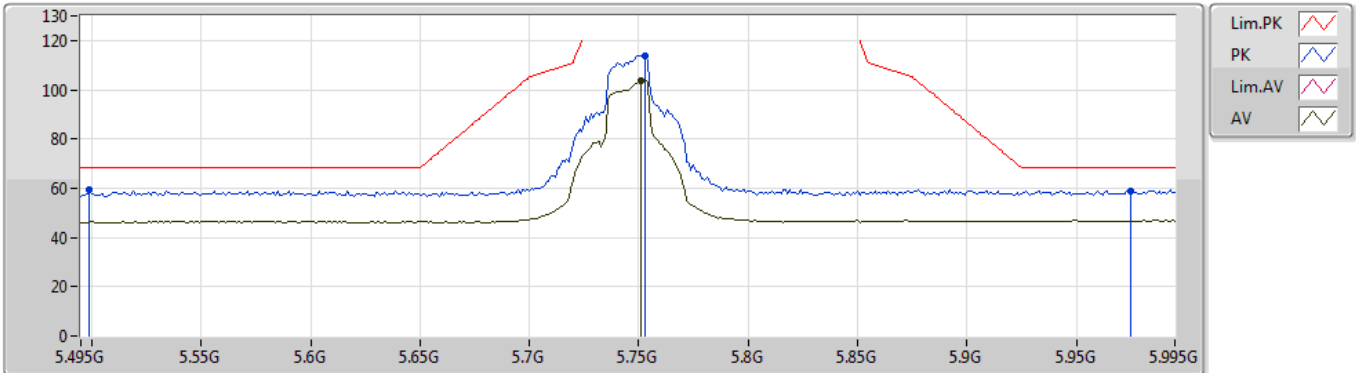
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.4715G	54.19	68.20	-14.01	12.28	3	Horizontal	48	1.63	-	41.91			
PK	15.728G	59.19	74.00	-14.81	13.72	3	Horizontal	360	1.50	-	45.47			
AV	15.7284G	45.52	54.00	-8.48	13.71	3	Horizontal	360	1.50	-	31.81			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5745MHz_TX



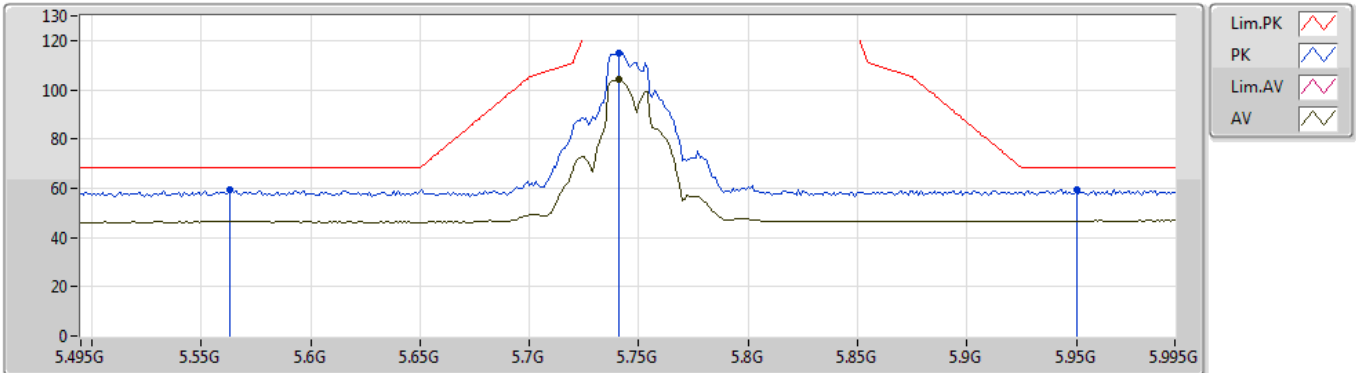
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.499G	59.14	68.20	-9.06	6.12	3	Vertical	0	1.01	-	53.02			
PK	5.753G	114.03	Inf	-Inf	5.85	3	Vertical	0	1.01	-	108.18			
AV	5.751G	103.94	Inf	-Inf	5.85	3	Vertical	0	1.01	-	98.09			
PK	5.975G	59.05	68.20	-9.15	6.32	3	Vertical	0	1.01	-	52.73			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5745MHz_TX



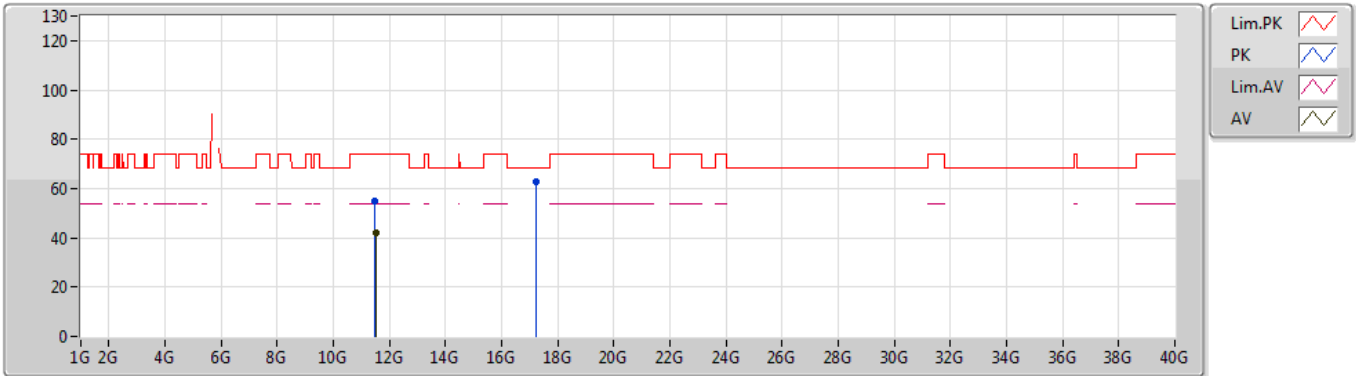
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.563G	59.64	68.20	-8.56	6.15	3	Horizontal	261	2.77	-	53.49			
PK	5.741G	115.02	Inf	-Inf	5.87	3	Horizontal	261	2.77	-	109.15			
AV	5.741G	104.15	Inf	-Inf	5.87	3	Horizontal	261	2.77	-	98.28			
PK	5.95G	59.67	68.20	-8.53	6.23	3	Horizontal	261	2.77	-	53.44			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5745MHz_TX



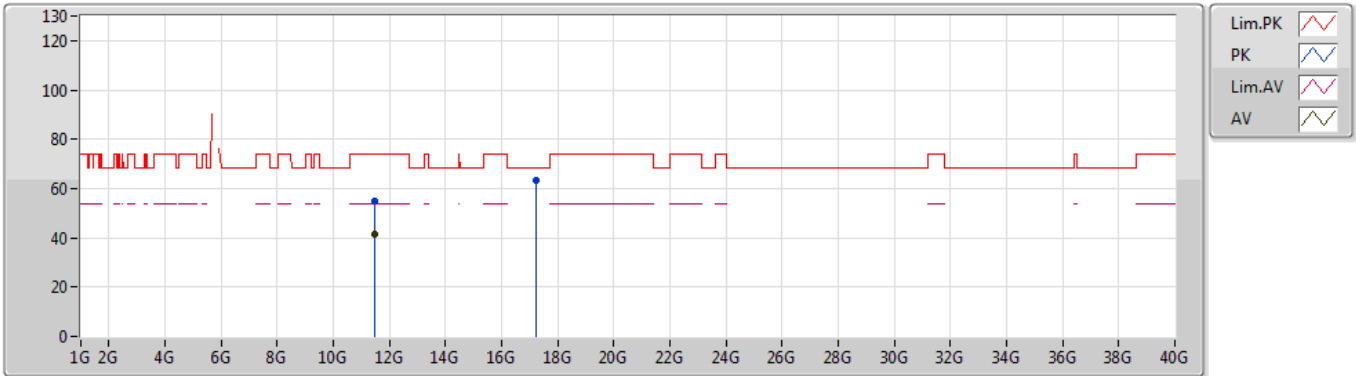
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.4851G	55.16	74.00	-18.84	13.00	3	Vertical	131	1.76	-	42.16			
AV	11.5074G	41.75	54.00	-12.25	13.01	3	Vertical	131	1.76	-	28.74			
PK	17.2527G	62.49	68.20	-5.71	17.42	3	Vertical	71	2.03	-	45.07			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5745MHz_TX



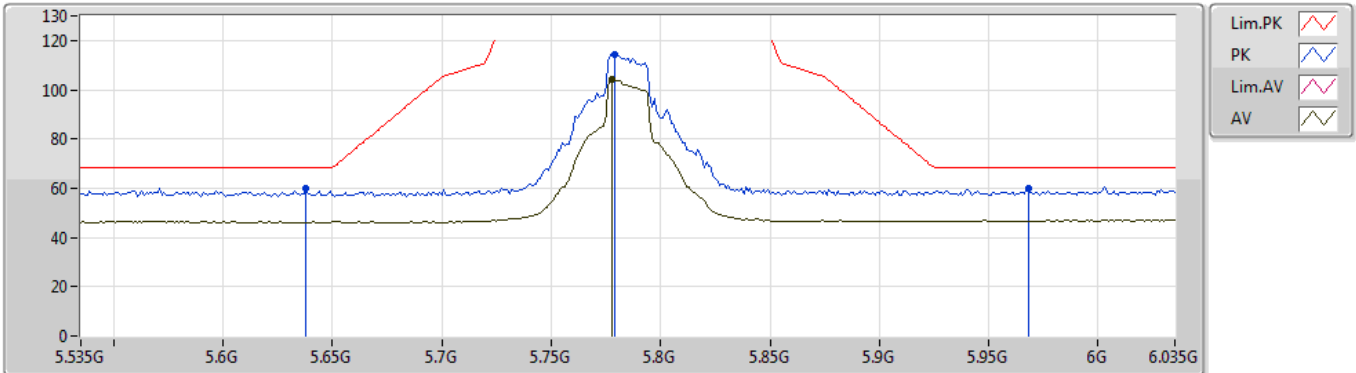
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.4959G	54.72	74.00	-19.28	13.01	3	Horizontal	84	2.09	-	41.71			
AV	11.4963G	41.67	54.00	-12.33	13.01	3	Horizontal	84	2.09	-	28.66			
PK	17.2233G	63.16	68.20	-5.04	17.28	3	Horizontal	317	1.27	-	45.88			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5785MHz_TX



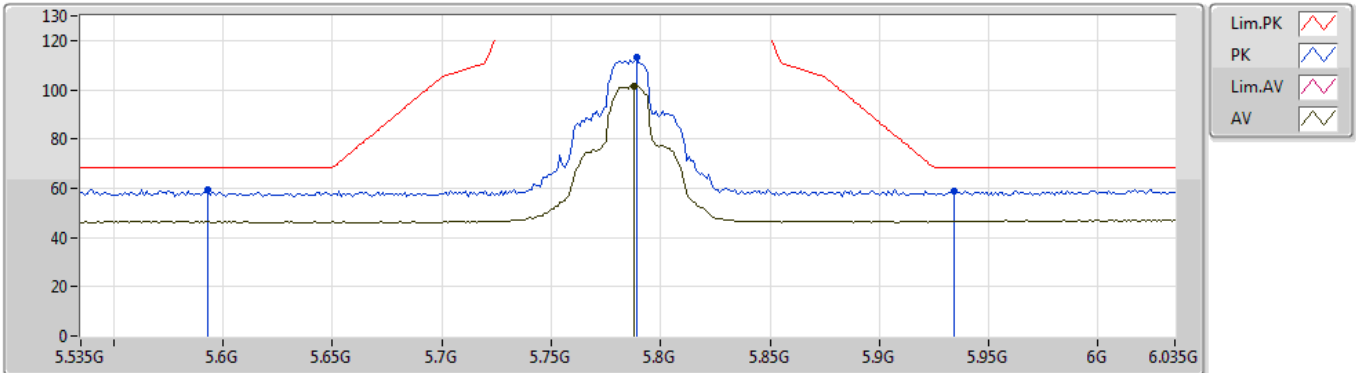
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.638G	59.99	68.20	-8.21	6.08	3	Vertical	192	1.65	-	53.91			
PK	5.779G	114.48	Inf	-Inf	5.81	3	Vertical	192	1.65	-	108.67			
AV	5.778G	104.02	Inf	-Inf	5.81	3	Vertical	192	1.65	-	98.21			
PK	5.968G	60.22	68.20	-7.98	6.29	3	Vertical	192	1.65	-	53.93			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5785MHz_TX



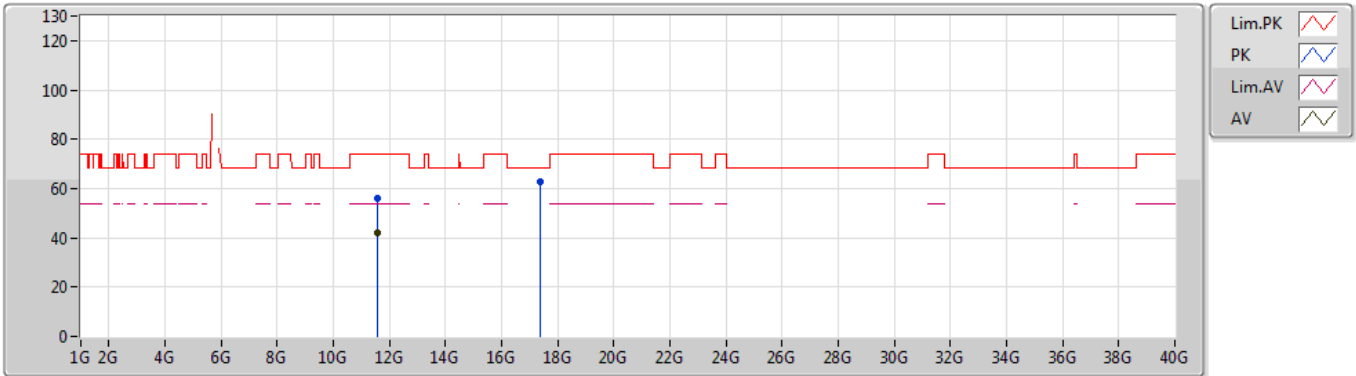
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.593G	59.65	68.20	-8.55	6.17	3	Horizontal	258	2.08	-	53.48
PK	5.789G	113.01	Inf	-Inf	5.79	3	Horizontal	258	2.08	-	107.22
AV	5.788G	101.57	Inf	-Inf	5.80	3	Horizontal	258	2.08	-	95.77
PK	5.934G	59.06	68.20	-9.14	6.18	3	Horizontal	258	2.08	-	52.88

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5785MHz_TX



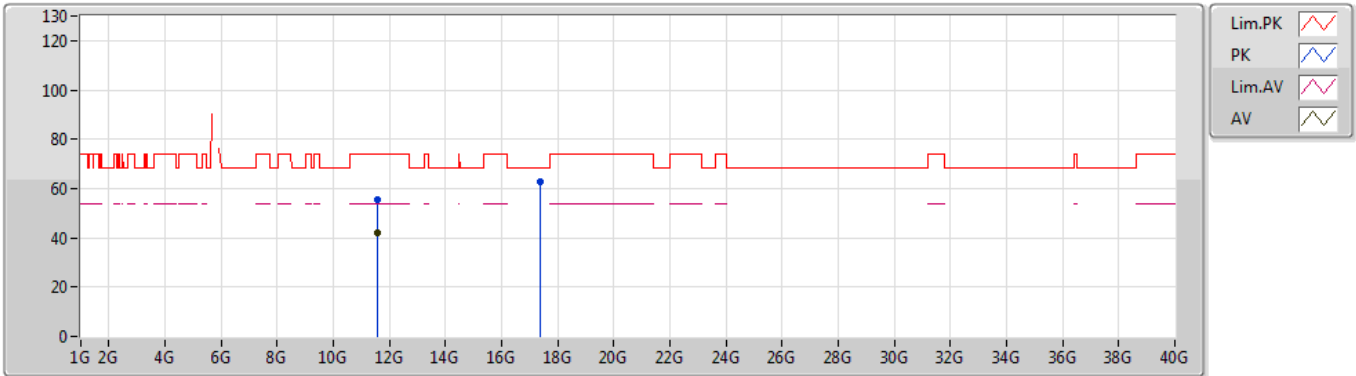
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.5749G	55.82	74.00	-18.18	13.04	3	Vertical	267	2.66	-	42.78			
AV	11.5732G	41.96	54.00	-12.04	13.04	3	Vertical	267	2.66	-	28.92			
PK	17.3535G	62.62	68.20	-5.58	17.94	3	Vertical	286	1.48	-	44.68			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5785MHz_TX



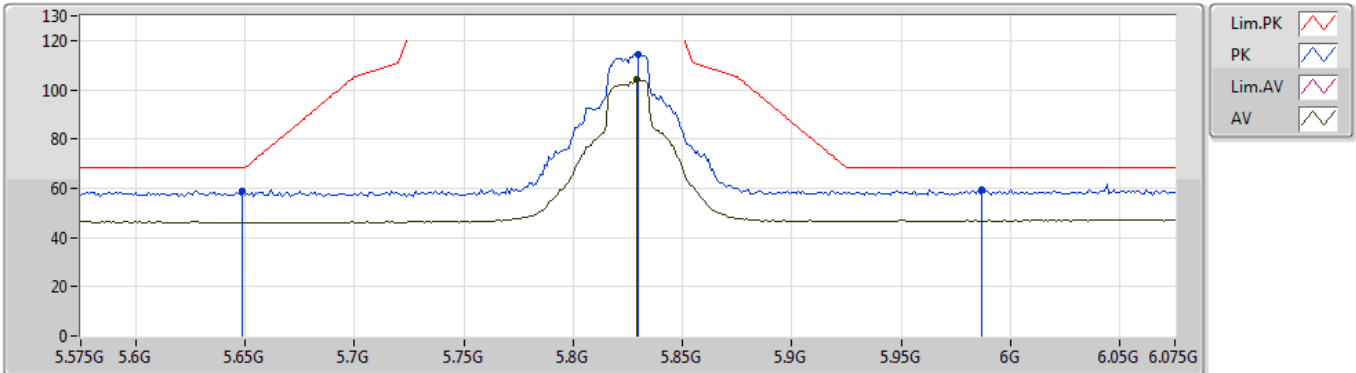
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.592G	55.22	74.00	-18.78	13.05	3	Horizontal	52	2.41	-	42.17			
AV	11.5862G	41.91	54.00	-12.09	13.05	3	Horizontal	52	2.41	-	28.86			
PK	17.3616G	62.50	68.20	-5.70	17.98	3	Horizontal	351	1.50	-	44.52			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5825MHz_TX



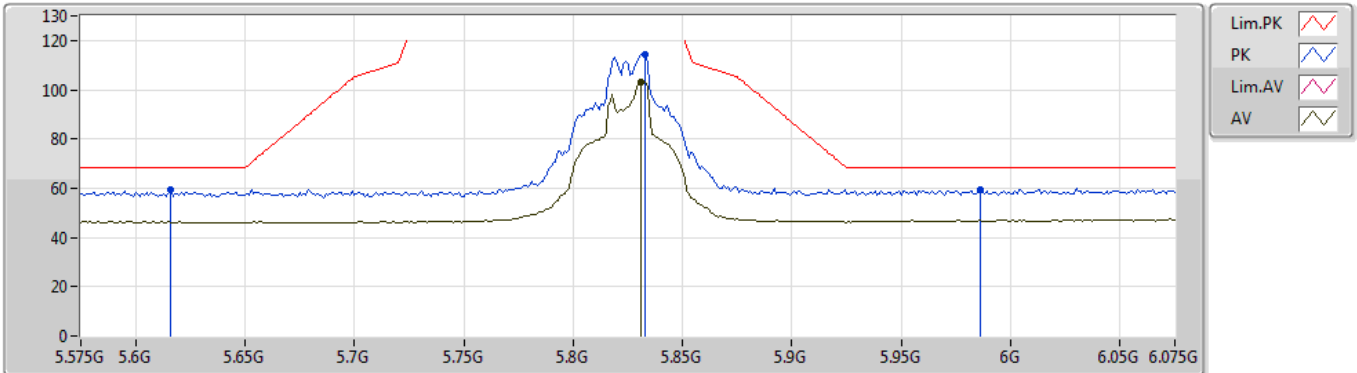
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.649G	58.72	68.20	-9.48	6.06	3	Vertical	184	1.06	-	52.66			
PK	5.83G	114.43	Inf	-Inf	5.86	3	Vertical	184	1.06	-	108.57			
AV	5.829G	104.06	Inf	-Inf	5.86	3	Vertical	184	1.06	-	98.20			
PK	5.987G	59.61	68.20	-8.59	6.37	3	Vertical	184	1.06	-	53.24			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5825MHz_TX



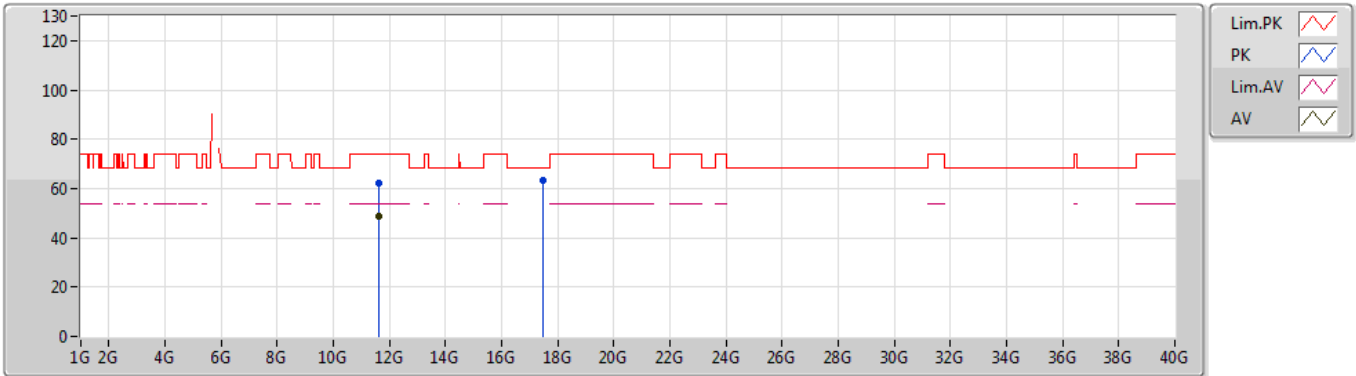
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.616G	59.63	68.20	-8.57	6.13	3	Horizontal	261	2.83	-	53.50			
PK	5.833G	114.31	Inf	-Inf	5.88	3	Horizontal	261	2.83	-	108.43			
AV	5.831G	103.20	Inf	-Inf	5.86	3	Horizontal	261	2.83	-	97.34			
PK	5.986G	59.37	68.20	-8.83	6.37	3	Horizontal	261	2.83	-	53.00			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5825MHz_TX



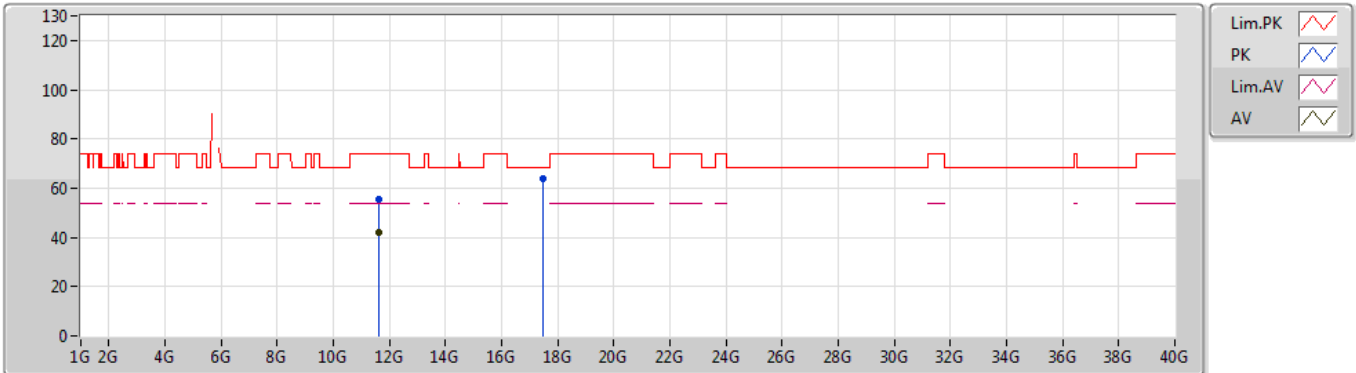
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.6371G	62.21	74.00	-11.79	13.08	3	Vertical	340	1.11	-	49.13			
AV	11.6359G	48.98	54.00	-5.02	13.08	3	Vertical	340	1.11	-	35.90			
PK	17.4767G	63.11	68.20	-5.09	18.57	3	Vertical	106	1.05	-	44.54			

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5825MHz_TX



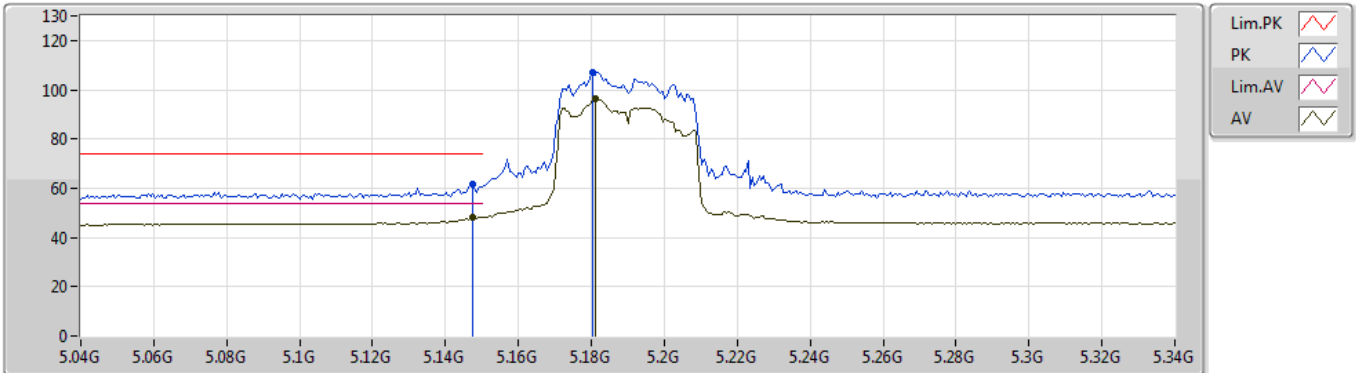
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.6416G	55.23	74.00	-18.77	13.08	3	Horizontal	50	2.70	-	42.15			
AV	11.628G	41.96	54.00	-12.04	13.07	3	Horizontal	50	2.70	-	28.89			
PK	17.4804G	64.03	68.20	-4.17	18.59	3	Horizontal	170	1.46	-	45.44			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5190MHz_TX



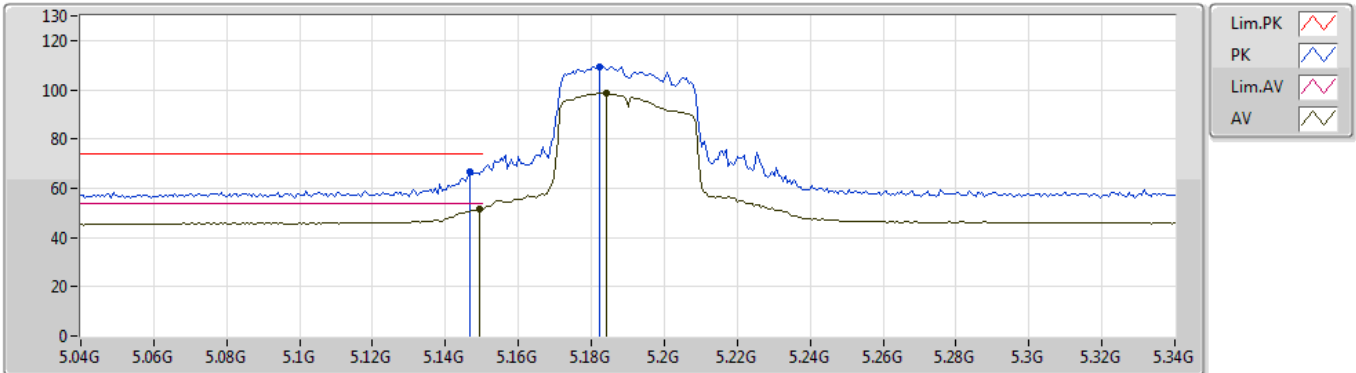
EUT_Z_2TX
Setting 20.5
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1474G	61.47	74.00	-12.53	5.50	3	Vertical	111	1.76	-	55.97			
AV	5.1474G	48.17	54.00	-5.83	5.50	3	Vertical	111	1.76	-	42.67			
PK	5.1804G	107.21	Inf	-Inf	5.58	3	Vertical	111	1.76	-	101.63			
AV	5.181G	96.39	Inf	-Inf	5.58	3	Vertical	111	1.76	-	90.81			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5190MHz_TX



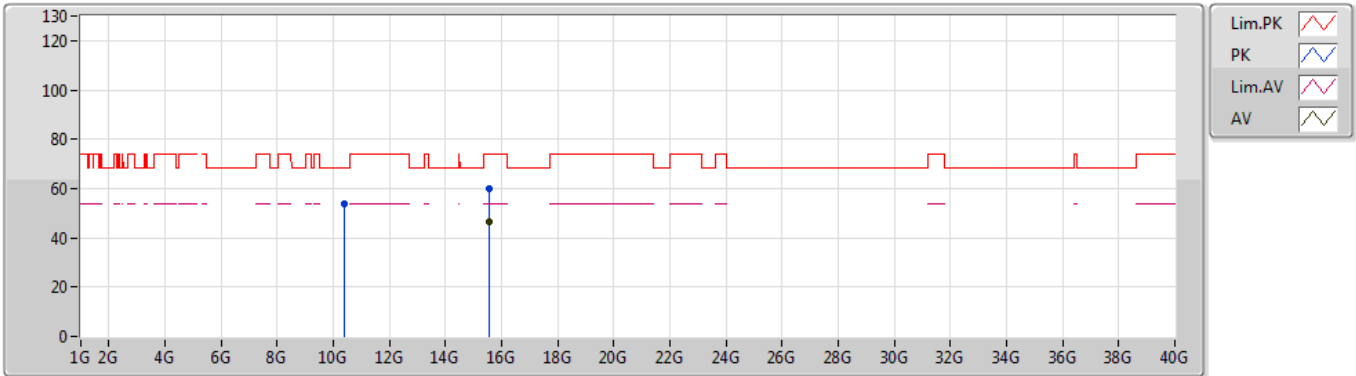
EUT_Z_2TX
Setting 20.5
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1468G	66.77	74.00	-7.23	5.50	3	Horizontal	262	2.99	-	61.27			
AV	5.1492G	51.51	54.00	-2.49	5.50	3	Horizontal	262	2.99	-	46.01			
PK	5.1822G	109.53	Inf	-Inf	5.59	3	Horizontal	262	2.99	-	103.94			
AV	5.184G	98.88	Inf	-Inf	5.59	3	Horizontal	262	2.99	-	93.29			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5190MHz_TX



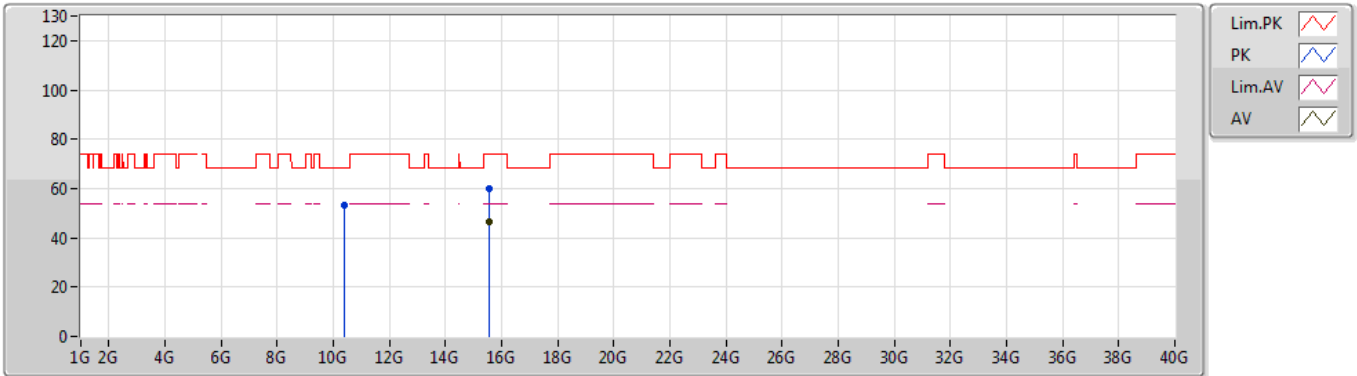
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Setting 20.5
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.39026G	53.90	68.20	-14.30	12.22	3	Vertical	232	1.02	-	41.68			
PK	15.57222G	59.95	74.00	-14.05	14.28	3	Vertical	27	2.63	-	45.67			
AV	15.58158G	46.25	54.00	-7.75	14.26	3	Vertical	27	2.63	-	31.99			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5190MHz_TX



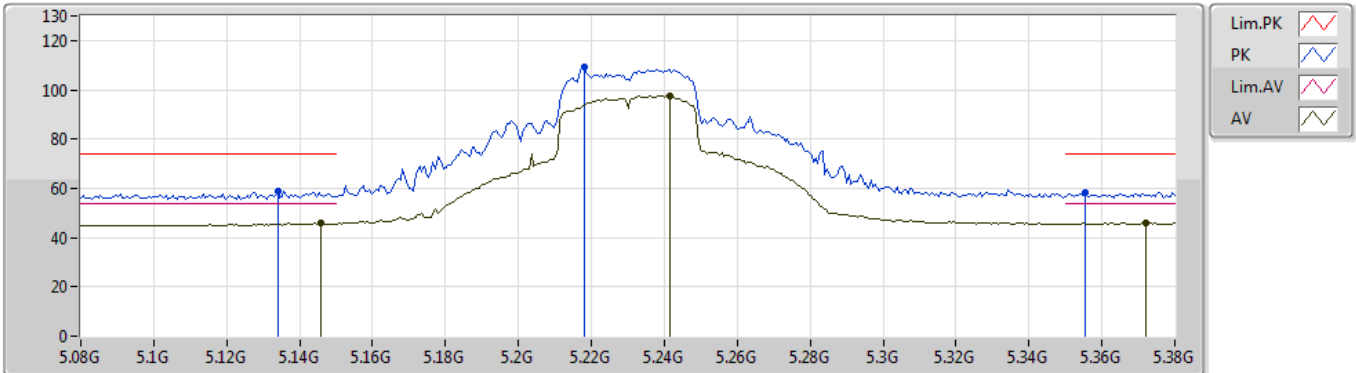
EUT_Z_2TX
Setting 20.5
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	10.38714G	53.41	68.20	-14.79	12.21	3	Horizontal	102	1.11	-	41.20
PK	15.56838G	60.03	74.00	-13.97	14.29	3	Horizontal	53	1.94	-	45.74
AV	15.555G	46.44	54.00	-7.56	14.34	3	Horizontal	53	1.94	-	32.10

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5230MHz_TX



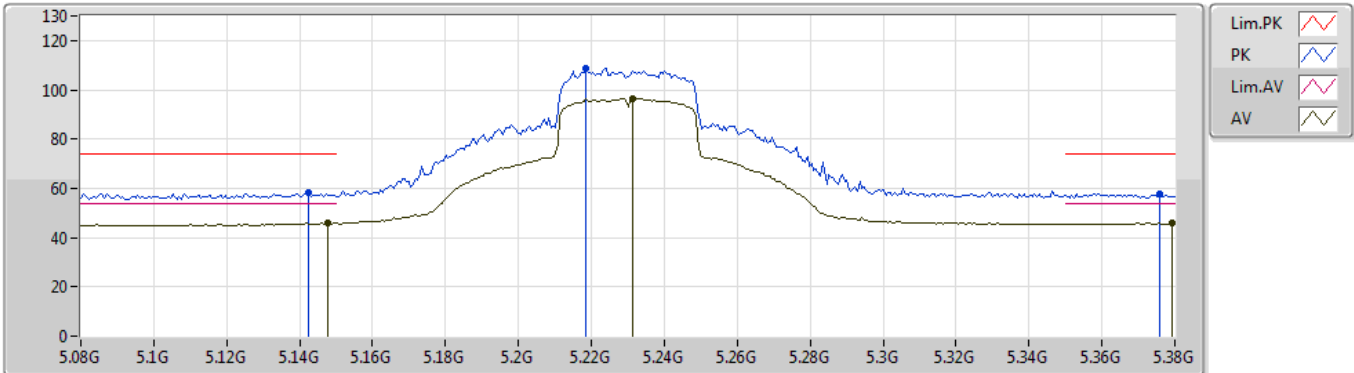
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.134G	58.95	74.00	-15.05	5.45	3	Vertical	202	1.25	-	53.50			
AV	5.146G	45.89	54.00	-8.11	5.50	3	Vertical	202	1.25	-	40.39			
PK	5.218G	109.51	Inf	-Inf	5.67	3	Vertical	202	1.25	-	103.84			
AV	5.2414G	97.52	Inf	-Inf	5.70	3	Vertical	202	1.25	-	91.82			
PK	5.3554G	58.53	74.00	-15.47	5.82	3	Vertical	202	1.25	-	52.71			
AV	5.3722G	45.99	54.00	-8.01	5.82	3	Vertical	202	1.25	-	40.17			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5230MHz_TX



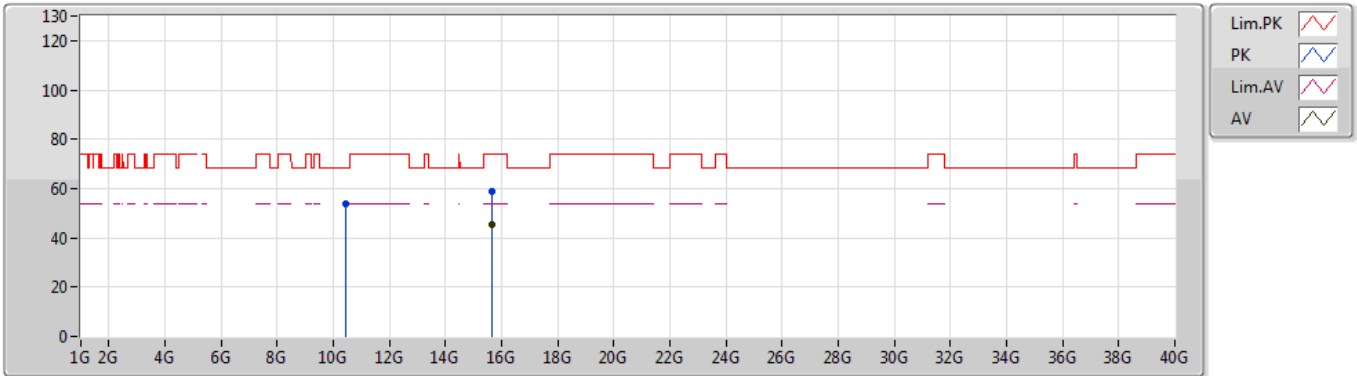
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Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1424G	58.16	74.00	-15.84	5.48	3	Horizontal	281	2.52	-	52.68			
AV	5.1478G	45.98	54.00	-8.02	5.50	3	Horizontal	281	2.52	-	40.48			
PK	5.2186G	108.90	Inf	-Inf	5.67	3	Horizontal	281	2.52	-	103.23			
AV	5.2312G	96.62	Inf	-Inf	5.68	3	Horizontal	281	2.52	-	90.94			
PK	5.3758G	57.99	74.00	-16.01	5.83	3	Horizontal	281	2.52	-	52.16			
AV	5.3794G	45.85	54.00	-8.15	5.83	3	Horizontal	281	2.52	-	40.02			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5230MHz_TX



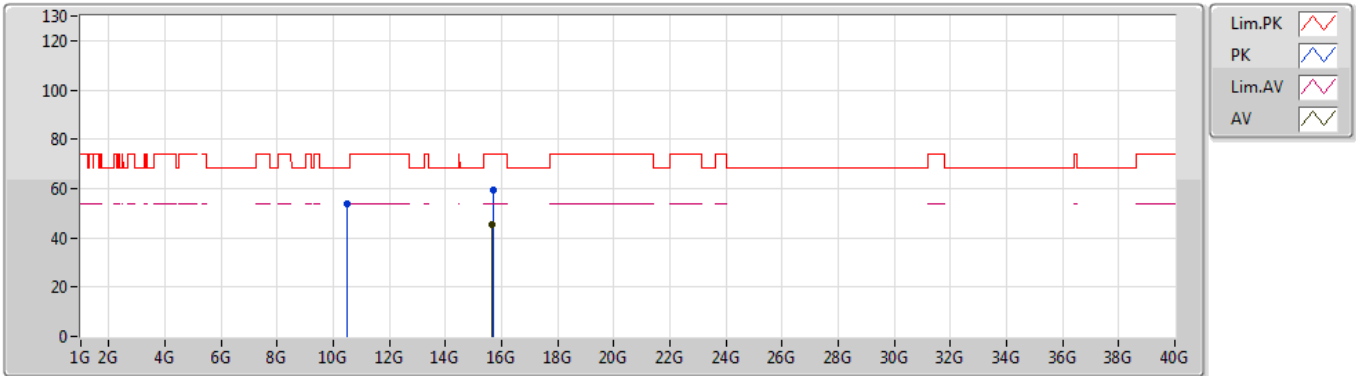
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.45094G	53.87	68.20	-14.33	12.27	3	Vertical	113	2.27	-	41.60			
PK	15.67566G	59.06	74.00	-14.94	13.90	3	Vertical	172	2.62	-	45.16			
AV	15.67788G	45.46	54.00	-8.54	13.90	3	Vertical	172	2.62	-	31.56			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5230MHz_TX



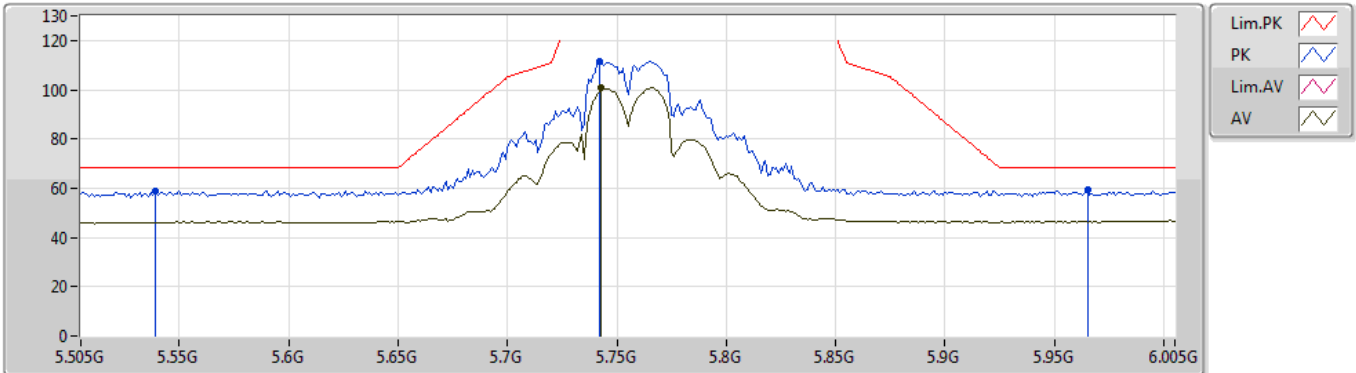
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Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	10.46732G	53.74	68.20	-14.46	12.28	3	Horizontal	310	1.33	-	41.46
PK	15.68154G	59.67	74.00	-14.33	13.90	3	Horizontal	55	1.00	-	45.77
AV	15.675G	45.63	54.00	-8.37	13.92	3	Horizontal	55	1.00	-	31.71

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5755MHz_TX



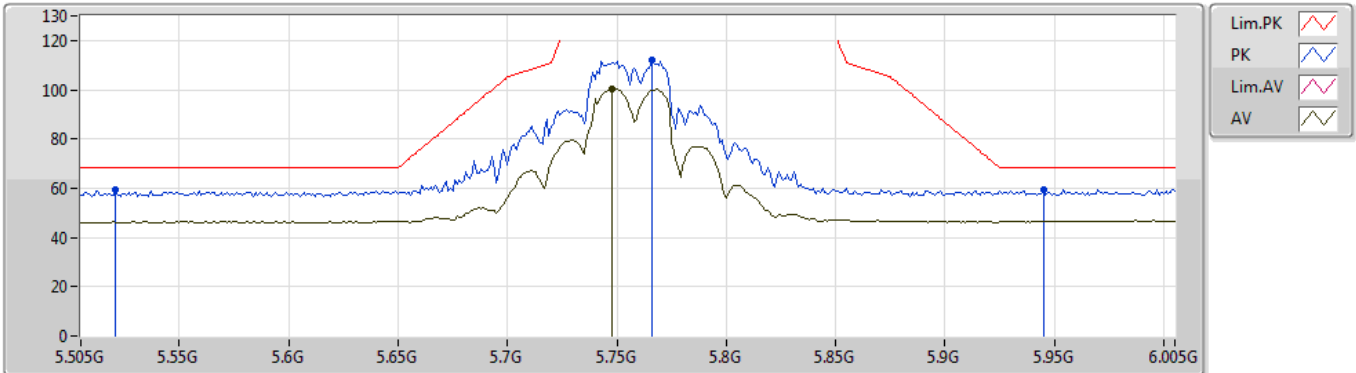
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Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.539G	59.04	68.20	-9.16	6.14	3	Vertical	192	1.48	-	52.90			
PK	5.742G	111.70	Inf	-Inf	5.87	3	Vertical	192	1.48	-	105.83			
AV	5.743G	101.02	Inf	-Inf	5.86	3	Vertical	192	1.48	-	95.16			
PK	5.965G	59.24	68.20	-8.96	6.29	3	Vertical	192	1.48	-	52.95			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5755MHz_TX



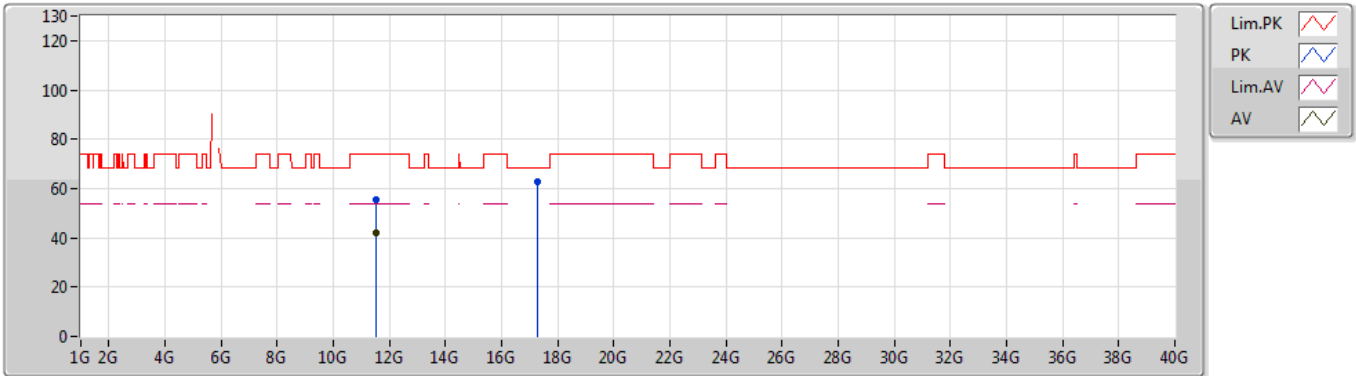
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Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.521G	59.43	68.20	-8.77	6.13	3	Horizontal	258	2.77	-	53.30			
PK	5.766G	111.90	Inf	-Inf	5.83	3	Horizontal	258	2.77	-	106.07			
AV	5.748G	100.50	Inf	-Inf	5.86	3	Horizontal	258	2.77	-	94.64			
PK	5.945G	59.60	68.20	-8.60	6.22	3	Horizontal	258	2.77	-	53.38			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5755MHz_TX



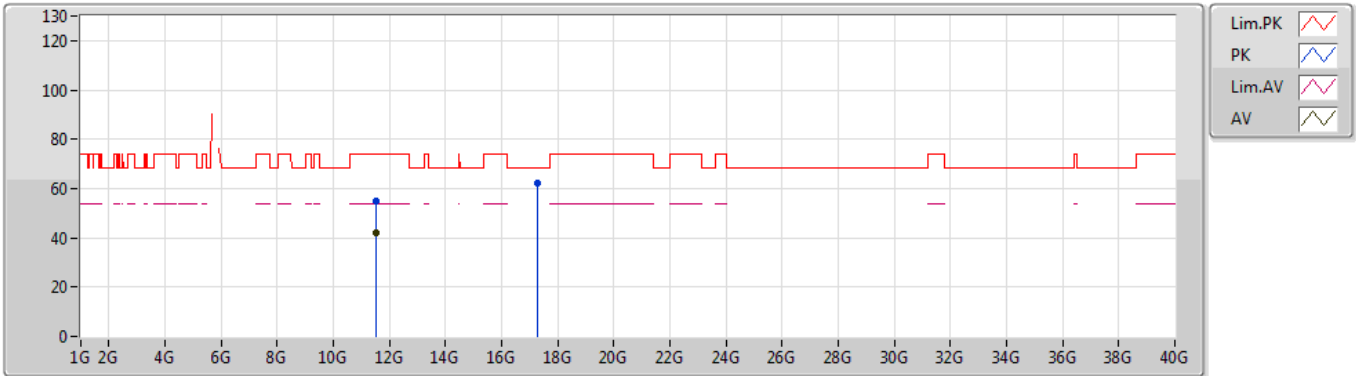
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Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.5223G	55.27	74.00	-18.73	13.02	3	Vertical	26	2.24	-	42.25			
AV	11.50826G	41.86	54.00	-12.14	13.01	3	Vertical	26	2.24	-	28.85			
PK	17.27952G	62.48	68.20	-5.72	17.57	3	Vertical	12	1.56	-	44.91			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5755MHz_TX



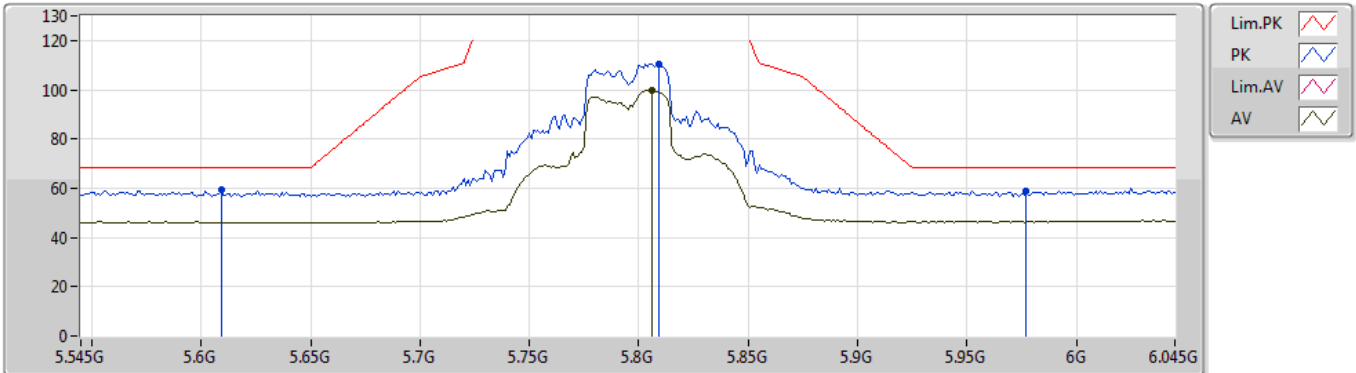
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.5046G	55.13	74.00	-18.87	13.00	3	Horizontal	227	1.27	-	42.13			
AV	11.50448G	41.78	54.00	-12.22	13.00	3	Horizontal	227	1.27	-	28.78			
PK	17.27664G	62.26	68.20	-5.94	17.55	3	Horizontal	164	2.22	-	44.71			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5795MHz_TX



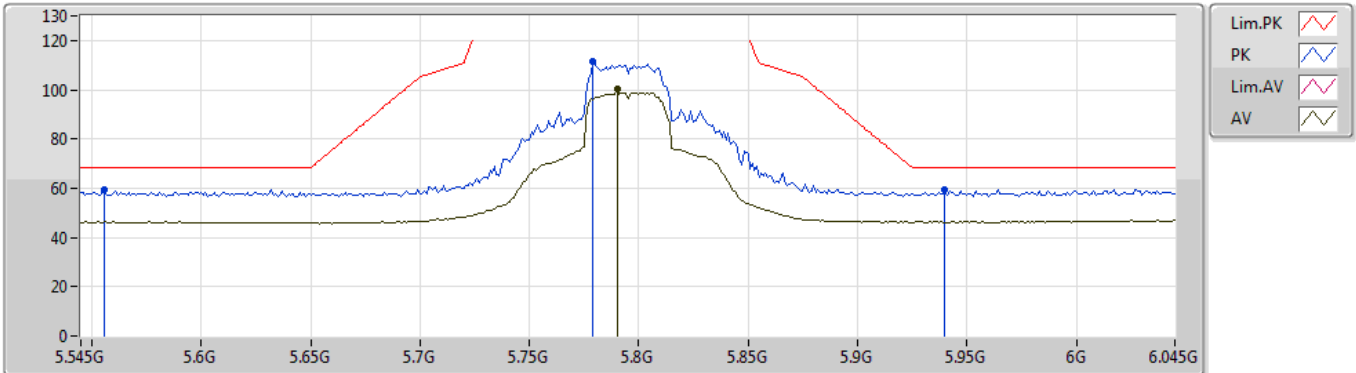
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.609G	59.12	68.20	-9.08	6.15	3	Vertical	357	1.09	-	52.97
PK	5.809G	110.28	Inf	-Inf	5.81	3	Vertical	357	1.09	-	104.47
AV	5.806G	99.69	Inf	-Inf	5.79	3	Vertical	357	1.09	-	93.90
PK	5.977G	59.01	68.20	-9.19	6.33	3	Vertical	357	1.09	-	52.68

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5795MHz_TX



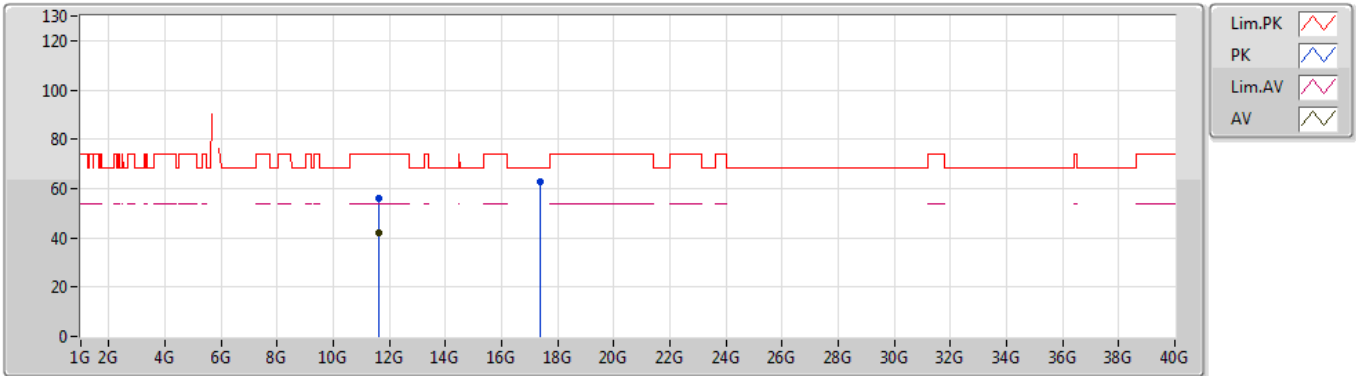
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.556G	59.34	68.20	-8.86	6.14	3	Horizontal	267	2.76	-	53.20			
PK	5.779G	111.56	Inf	-Inf	5.81	3	Horizontal	267	2.76	-	105.75			
AV	5.79G	100.24	Inf	-Inf	5.79	3	Horizontal	267	2.76	-	94.45			
PK	5.94G	59.35	68.20	-8.85	6.20	3	Horizontal	267	2.76	-	53.15			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5795MHz_TX



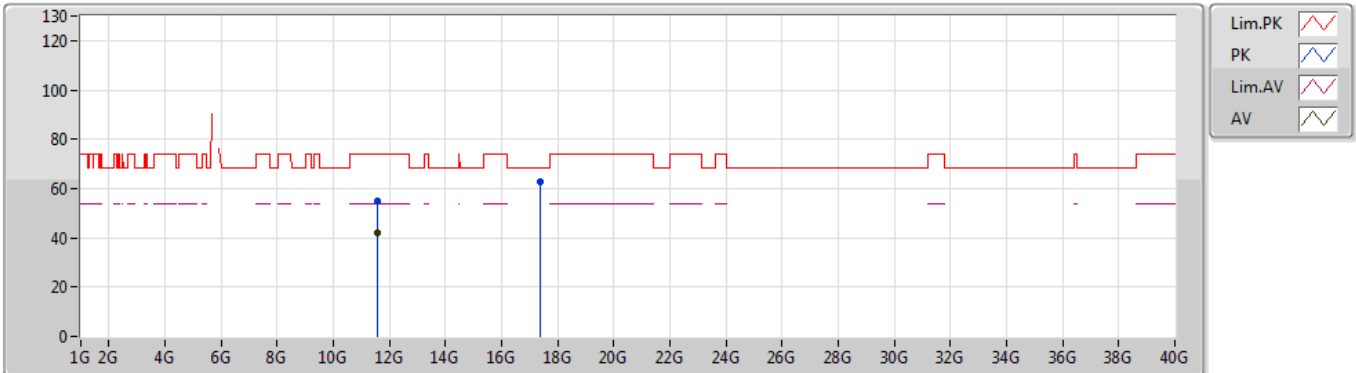
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.60116G	56.00	74.00	-18.00	13.05	3	Vertical	79	2.20	-	42.95			
AV	11.60128G	42.02	54.00	-11.98	13.05	3	Vertical	79	2.20	-	28.97			
PK	17.38842G	62.68	68.20	-5.52	18.12	3	Vertical	81	2.61	-	44.56			

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5795MHz_TX



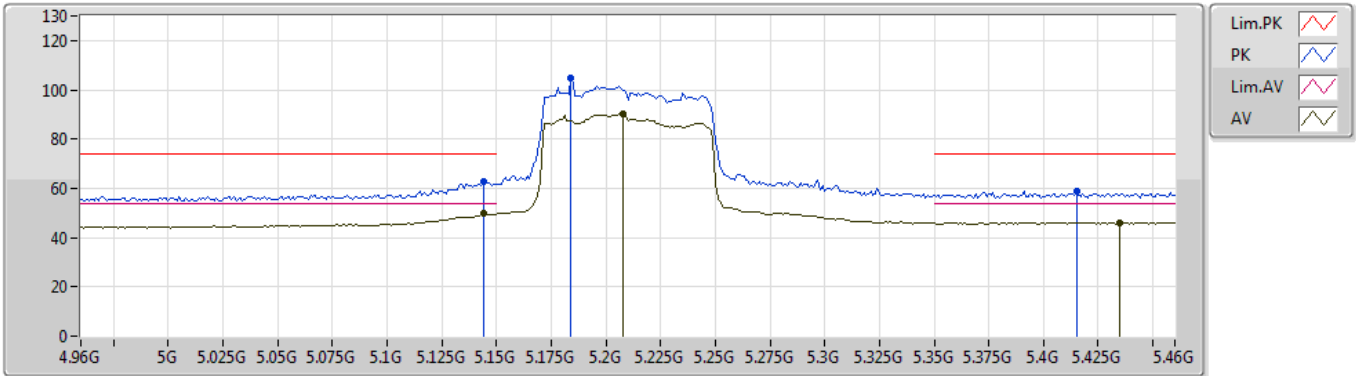
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Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.5888G	54.91	74.00	-19.09	13.05	3	Horizontal	166	1.88	-	41.86
AV	11.57686G	41.99	54.00	-12.01	13.04	3	Horizontal	166	1.88	-	28.95
PK	17.37438G	62.56	68.20	-5.64	18.04	3	Horizontal	285	1.85	-	44.52

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

04/11/2019

5210MHz_TX



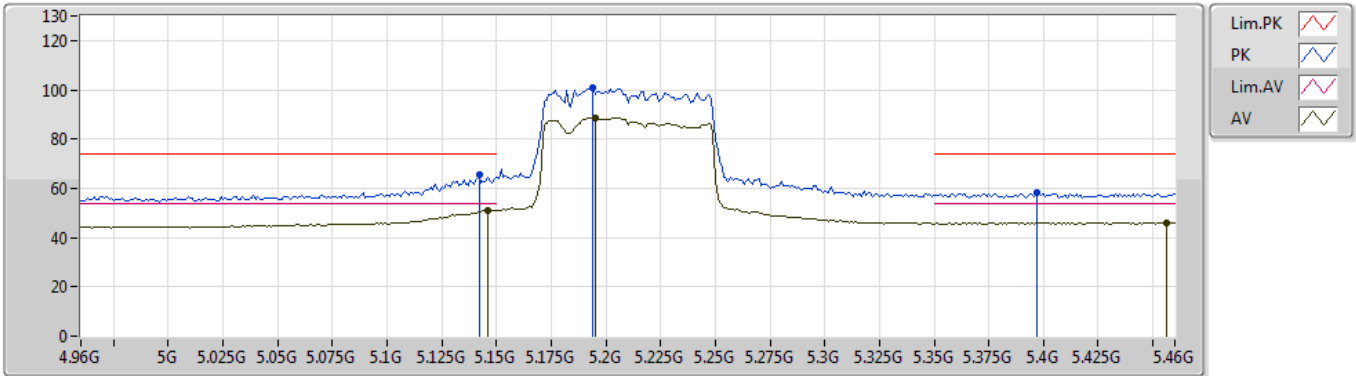
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Setting 20.5
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.144G	62.67	74.00	-11.33	5.48	3	Vertical	211	2.65	-	57.19			
AV	5.144G	49.62	54.00	-4.38	5.48	3	Vertical	211	2.65	-	44.14			
PK	5.184G	104.55	Inf	-Inf	5.59	3	Vertical	211	2.65	-	98.96			
AV	5.208G	90.40	Inf	-Inf	5.66	3	Vertical	211	2.65	-	84.74			
PK	5.415G	58.84	74.00	-15.16	5.88	3	Vertical	211	2.65	-	52.96			
AV	5.435G	46.02	54.00	-7.98	5.94	3	Vertical	211	2.65	-	40.08			

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

04/11/2019

5210MHz_TX



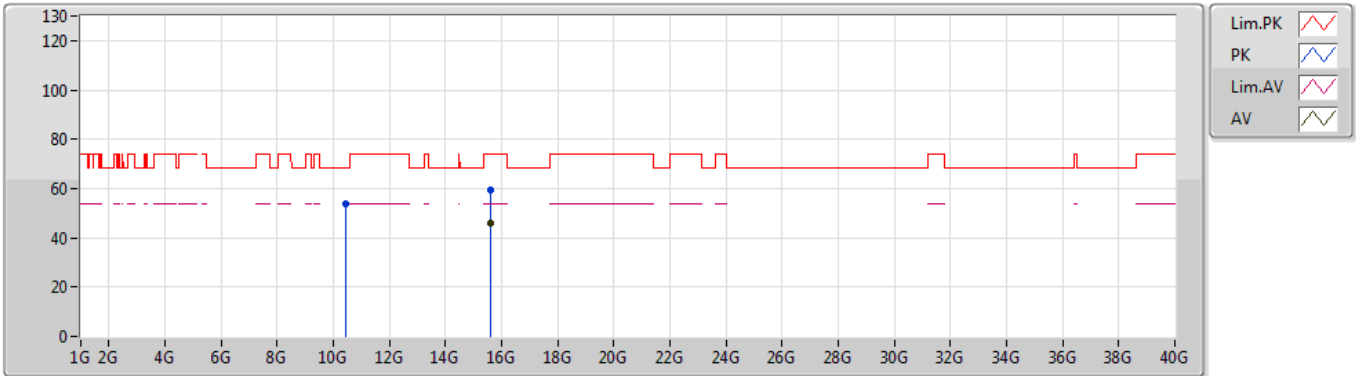
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Setting 20.5
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.142G	65.69	74.00	-8.31	5.48	3	Horizontal	95	2.99	-	60.21			
AV	5.146G	51.26	54.00	-2.74	5.50	3	Horizontal	95	2.99	-	45.76			
PK	5.194G	100.59	Inf	-Inf	5.62	3	Horizontal	95	2.99	-	94.97			
AV	5.195G	88.66	Inf	-Inf	5.62	3	Horizontal	95	2.99	-	83.04			
PK	5.397G	58.54	74.00	-15.46	5.84	3	Horizontal	95	2.99	-	52.70			
AV	5.456G	46.08	54.00	-7.92	6.00	3	Horizontal	95	2.99	-	40.08			

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

04/11/2019

5210MHz_TX



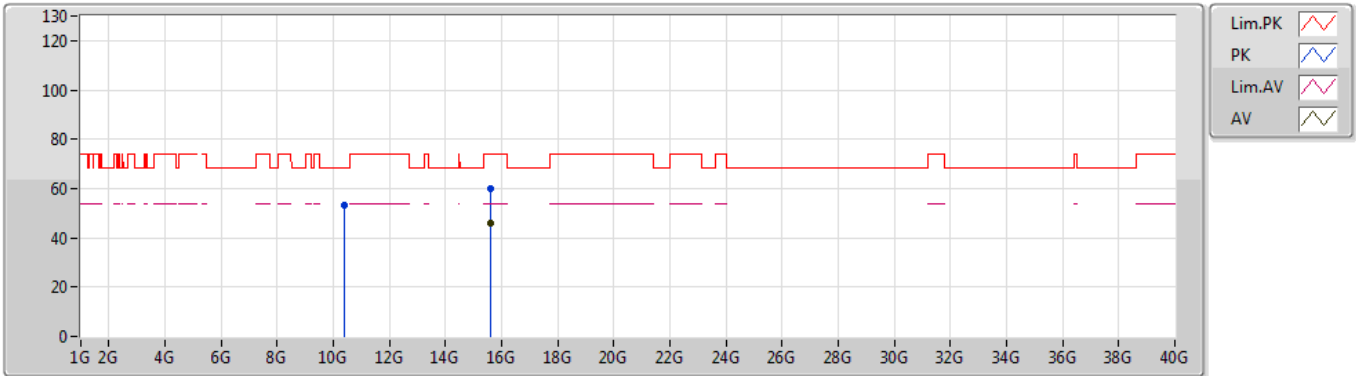
EUT_Z_2TX
Setting 20.5
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.43314G	53.86	68.20	-14.34	12.25	3	Vertical	351	1.03	-	41.61			
PK	15.62232G	59.42	74.00	-14.58	14.10	3	Vertical	353	1.95	-	45.32			
AV	15.61674G	45.97	54.00	-8.03	14.12	3	Vertical	353	1.95	-	31.85			

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

04/11/2019

5210MHz_TX



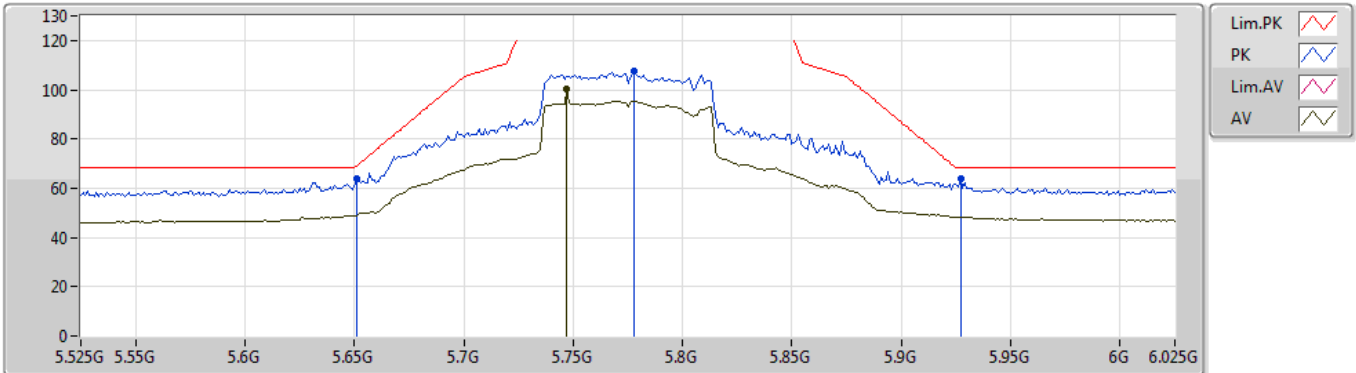
EUT_Z_2TX
Setting 20.5
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.41094G	53.38	68.20	-14.82	12.23	3	Horizontal	82	1.66	-	41.15			
PK	15.61638G	59.74	74.00	-14.26	14.12	3	Horizontal	280	1.54	-	45.62			
AV	15.61524G	46.02	54.00	-7.98	14.12	3	Horizontal	280	1.54	-	31.90			

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

04/11/2019

5775MHz_TX



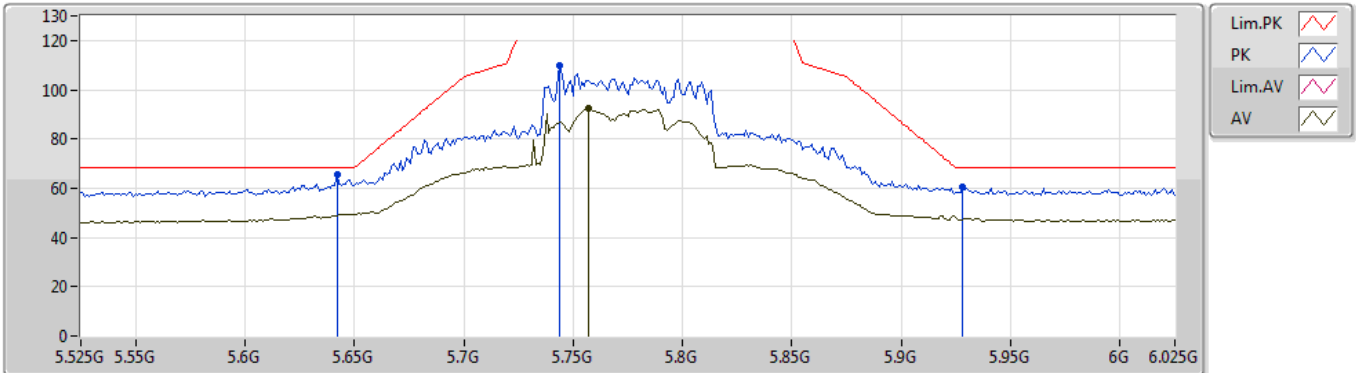
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.651G	63.82	68.94	-5.12	6.04	3	Vertical	193	1.50	-	57.78			
PK	5.778G	107.47	Inf	-Inf	5.81	3	Vertical	193	1.50	-	101.66			
AV	5.747G	100.05	Inf	-Inf	5.86	3	Vertical	193	1.50	-	94.19			
PK	5.927G	63.85	68.20	-4.35	6.15	3	Vertical	193	1.50	-	57.70			

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

04/11/2019

5775MHz_TX



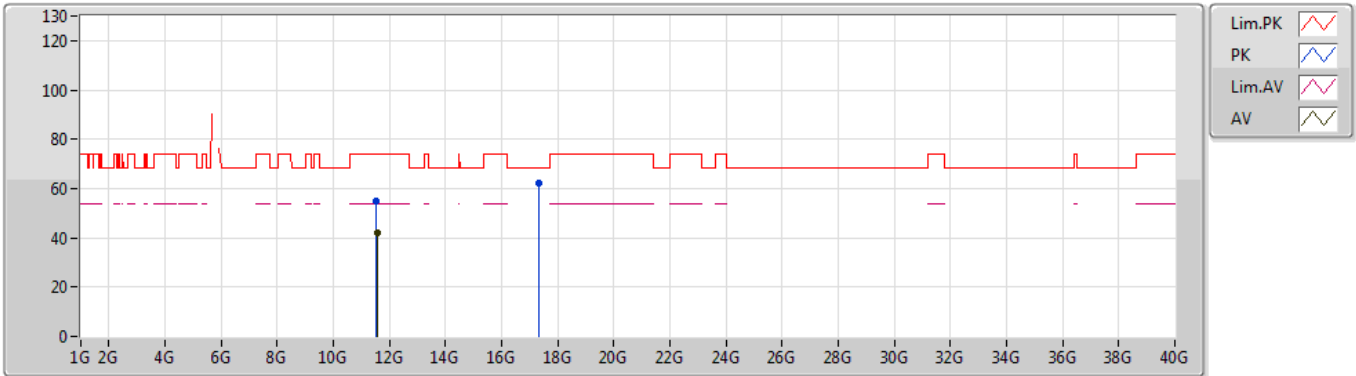
EUT_Z_2TX
Setting 26
03-A-3-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.642G	65.39	68.20	-2.81	6.08	3	Horizontal	256	2.88	-	59.31			
PK	5.744G	109.82	Inf	-Inf	5.86	3	Horizontal	256	2.88	-	103.96			
AV	5.757G	92.70	Inf	-Inf	5.85	3	Horizontal	256	2.88	-	86.85			
PK	5.928G	60.44	68.20	-7.76	6.15	3	Horizontal	256	2.88	-	54.29			

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

04/11/2019

5775MHz_TX



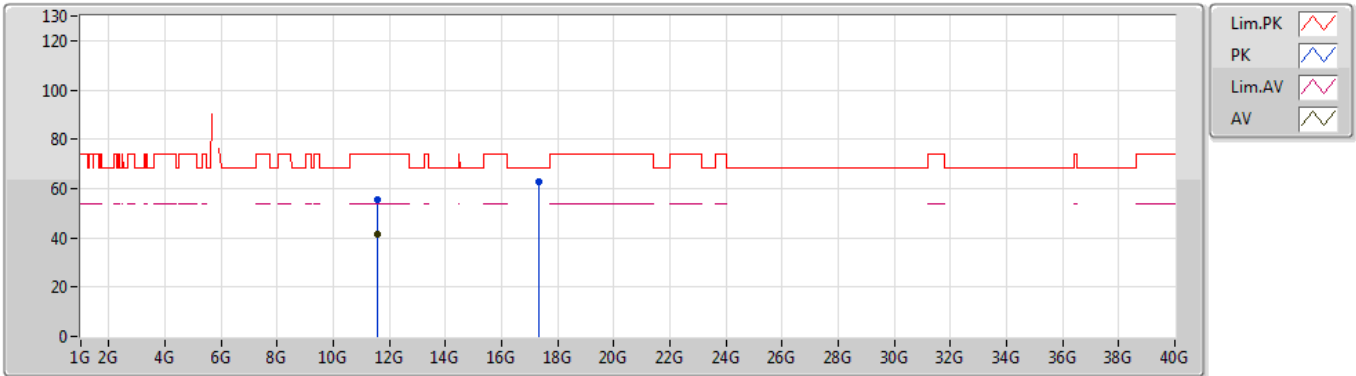
EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.53962G	55.16	74.00	-18.84	13.02	3	Vertical	180	1.64	-	42.14			
AV	11.56314G	41.96	54.00	-12.04	13.03	3	Vertical	180	1.64	-	28.93			
PK	17.33454G	62.19	68.20	-6.01	17.85	3	Vertical	153	1.74	-	44.34			

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

04/11/2019

5775MHz_TX



EUT_Z_2TX
Setting 26
03-A-3
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.5608G	55.50	74.00	-18.50	13.03	3	Horizontal	140	2.86	-	42.47			
AV	11.55468G	41.72	54.00	-12.28	13.03	3	Horizontal	140	2.86	-	28.69			
PK	17.3328G	62.99	68.20	-5.21	17.84	3	Horizontal	284	1.04	-	45.15			



RSE Co-location Result

Appendix F

