FCC RADIO TEST REPORT

FCC ID	:	TE7RE505X
Equipment	:	AX1500 Wi-Fi Range Extender
Brand Name	:	tp-link
Model Name	:	RE505X
Applicant	:	TP-Link Technologies Co., Ltd. Building 24 (floors 1,3,4,5) and 28 (floors1-4), Central Science and Technology Park,Nanshan Shenzhen, 518057 China
Manufacturer	:	TP-Link Technologies Co., Ltd. Building 24 (floors 1,3,4,5) and 28 (floors1-4), Central Science and Technology Park,Nanshan Shenzhen, 518057 China
Standard	:	47 CFR FCC Part 15.407

The product was received on Sep. 23, 2019, and testing was started from Oct. 21, 2019 and completed on Nov. 04, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

The test results in this 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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History of this test report

Report No.	Version	Description	Issued Date
FR991919AB	01	Initial issue of report	Dec. 23, 2019

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:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Wendy Pan

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.15-5.25GHz	802.11n HT20	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT20-BF	20	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW20-BF	20	2TX
5.15-5.25GHz	802.11n HT40	40	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT40-BF	40	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ac VHT80-BF	80	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.15-5.25GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11n HT40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2TX

Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.
- HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM 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)	
	WLAN 2.4GHz	WLAN 5GHz					WLAN 2.4GHz	WLAN 5GHz
1	1	2	tp-link	3101502662	Dipole	I-PEX	3	5
2	2	1	tp-link	3101502662	Dipole	I-PEX	3	5

Note: The above information was declared by manufacturer.

For 2.4GHz function:

For IEEE 802.11b mode (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

For IEEE 802.11g/n 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 function:

For IEEE 802.11a/n/ac/ax 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) ≥ 1/T
802.11a	0.952	0.21	2.065m	1k
802.11ac VHT20-BF	0.933	0.3	3.84m	300
802.11ac VHT40-BF	0.945	0.25	3.025m	1k
802.11ac VHT80-BF	0.958	0.19	3.69m	300
802.11ax HEW20-BF	0.949	0.23	3.21m	1k
802.11ax HEW40-BF	0.944	0.25	3.248m	1k
802.11ax HEW80-BF	0.937	0.28	4.17m	300

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	Internal power supply			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	For 802.11ac/ax in 5GHz			
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	For non- beamforming: Mtool ver 3.1.0.3 For beamforming: LanTest(v2.0.0.2)、Telnet			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT support function.

Function
AP (Master) Mode
Extender (Master + Client without radar detection) Mode

Note: The EUT supports AP and Extender mode, Extender mode only for AC power-line conducted emissions and Unwanted Emissions below 1GHz were tested and recorded in this test report by manufacturer request.

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	24~25.8°C / 57~59%	Oct. 21, 2019 ~ Nov. 04, 2019
Radiated<1GHz	03CH05-CB	Paul Chen	23.7~25.8°C / 55~60%	Oct. 21, 2019
Radiated>1GHz	03CH06-CB	KJ Chang	24.1~25.7°C / 55~58%	Oct. 16, 2019 ~ Nov. 04, 2019
AC Conduction	CO01-CB	Wei Li	23~24°C / 56~59%	Oct. 29, 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	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	75
5200MHz	92
5240MHz	90
5745MHz	86
5785MHz	85
5825MHz	85
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	71
5200MHz	168
5240MHz	158
5745MHz	150
5785MHz	168
5825MHz	141
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	38
5230MHz	126
5755MHz	141
5795MHz	126
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	35
5775MHz	60
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	63
5200MHz	178
5240MHz	158
5745MHz	150
5785MHz	150
5825MHz	150
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	35
5230MHz	126
5755MHz	141
5795MHz	126
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	42

Mode	Power Setting
5775MHz	75

Note:1. There are two modes of EUT. One is beamforming mode, and the other is non-beamforming mode, after evaluating, beamforming mode has been evaluated to be the worst case, so it was selected to test and record in this test report.
2.VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	Extender 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	Extender Mode - EUT in Y axis + antenna in vertical
2	Extender Mode - EUT in Z axis + antenna in 90°
3	Extender Mode - EUT in Z axis + antenna in 180°
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at Y axis + antenna in vertical, Z axis + antenna in 90° and Z axis + antenna in 180° position, and the worst case was found at Z axis + antenna in 180°. So the measurement will follow this same test configuration.	
1	EUT in Z axis + antenna in 180°

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	The EUT was performed at Y axis + antenna in vertical, Z axis + antenna in 90° and Z axis + antenna in 180° position, and the worst case was found at EUT in Z axis + antenna in 180°. So the measurement will follow this same test configuration.
1	WLAN 2.4GHz + WLAN 5GHz - EUT in Z axis + antenna in 180°
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.: FA991919 for Co-location RF Exposure Evaluation.	

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(v2.0.0.2).exe" to link with the remote workstation to transmit and receive packet by Wireless AP and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

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	MSQ-RPN53

For Radiated (below 1GHz):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Notebook	DELL	E4300	N/A
D	WLAN AP	tp-link	RE505	N/A

For Radiated (above 1GHz) and RF Conducted:
Non-beamforming mode:

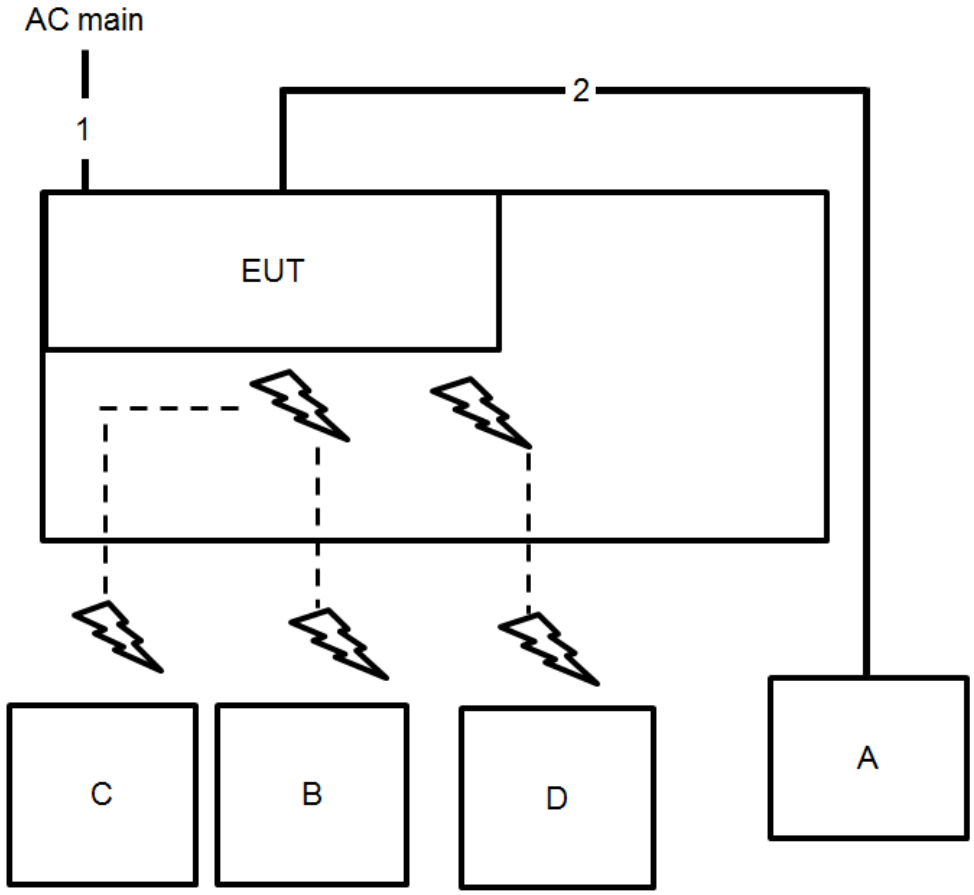
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A

Bbeamforming mode:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	RX device	TP-Link	RE505	N/A
C	Notebook	DELL	E4300	N/A

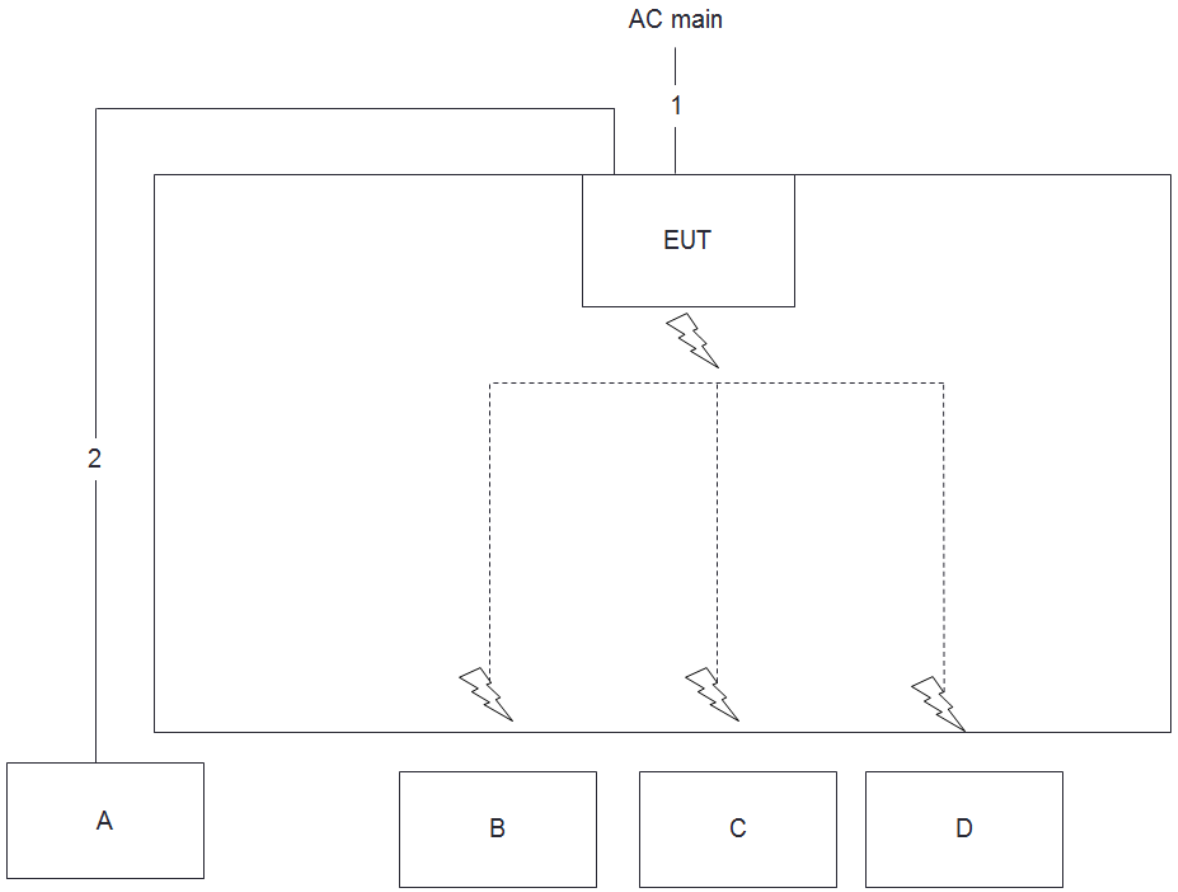
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



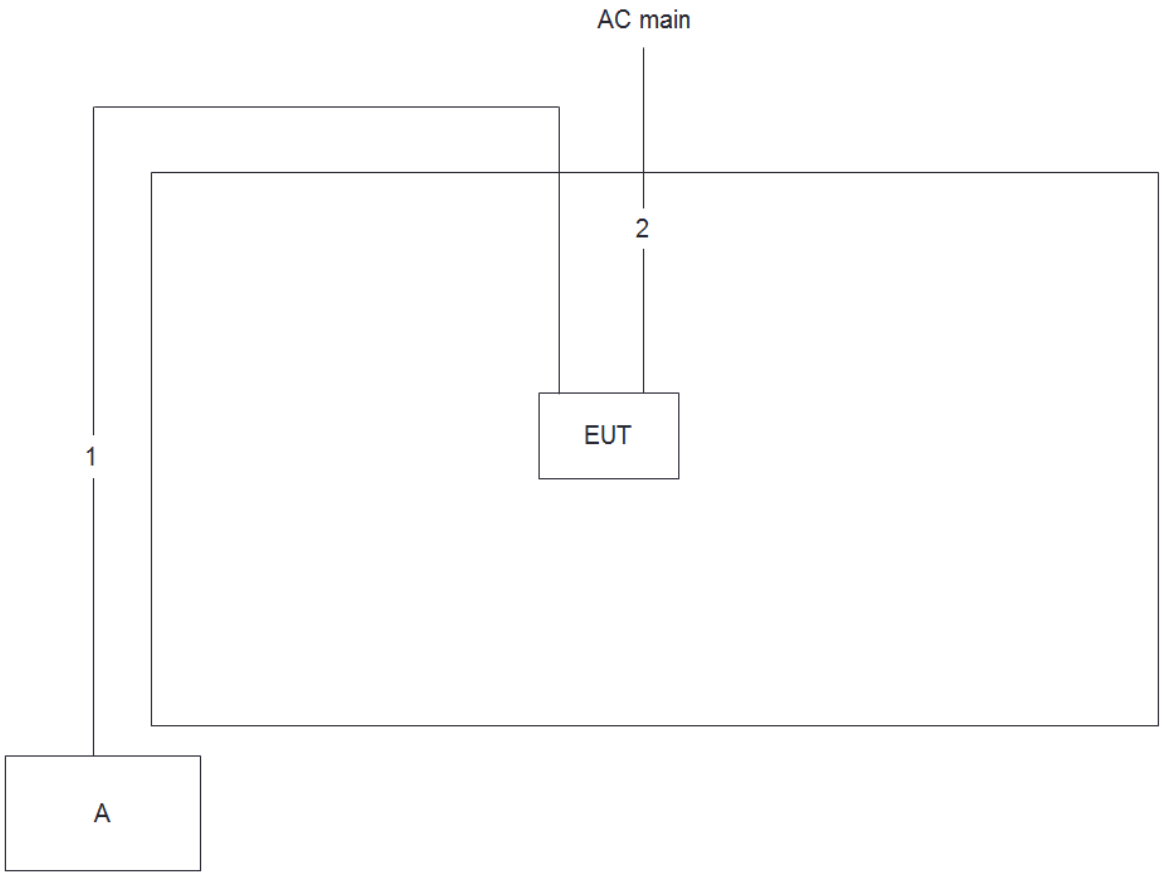
Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test < 1GHz



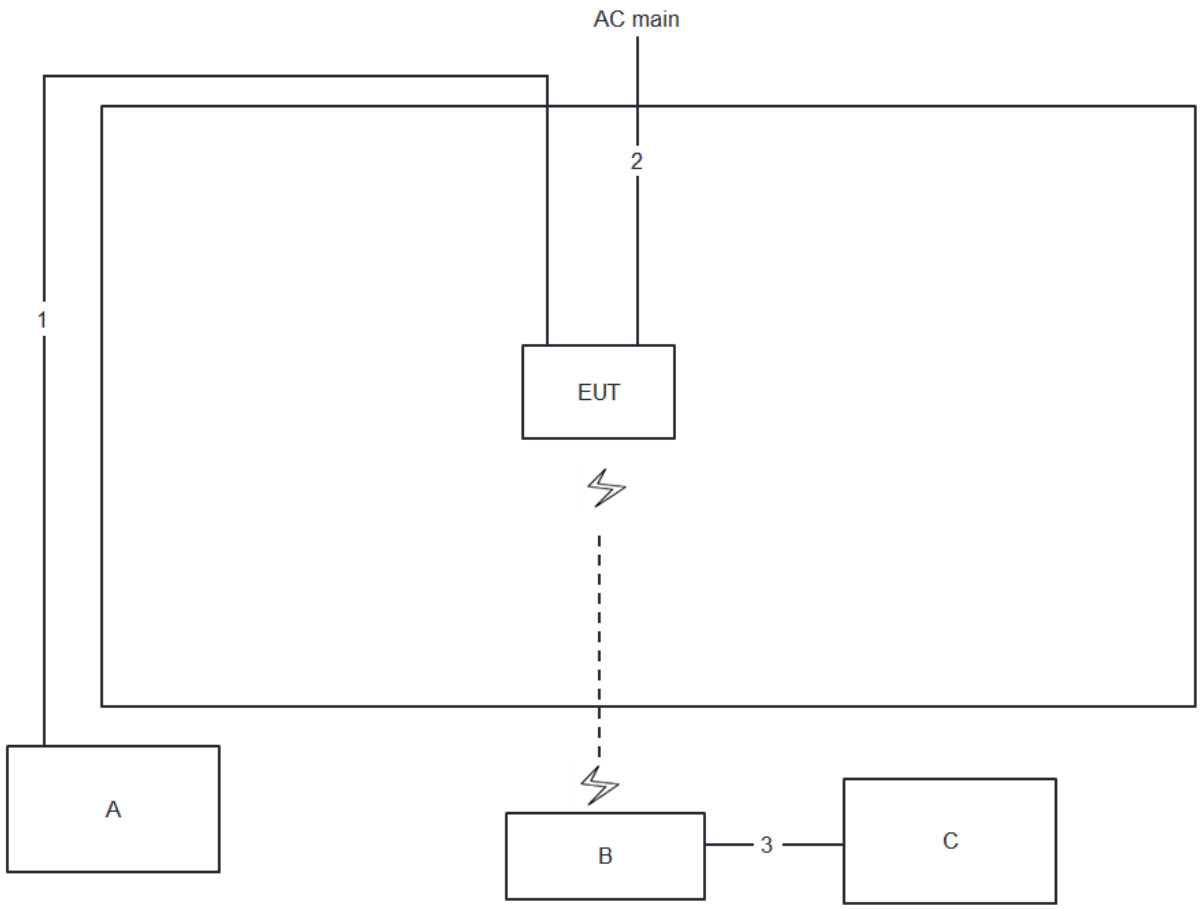
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz, Non-beamforming



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

Test Setup Diagram - Radiated Test > 1GHz, Beamforming



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

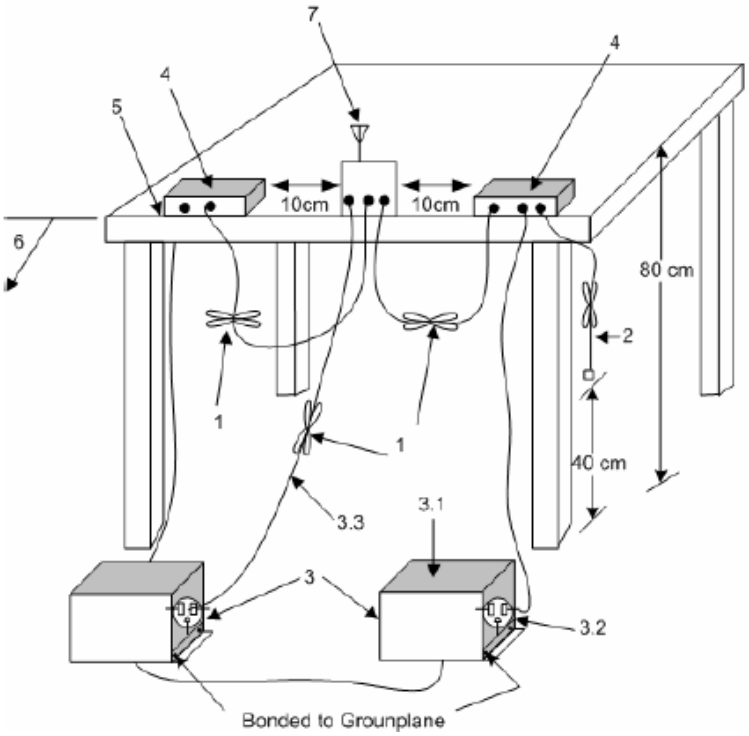
Refer a test equipment and calibration data table in this test report.

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

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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 ≥ 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 ≥ 500kHz.

3.2.2 Measuring Instruments

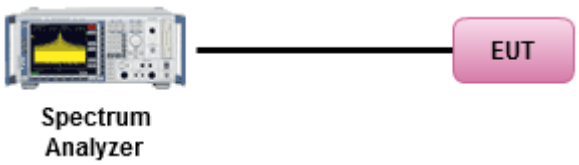
Refer a test equipment and calibration data table in this test report.

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

Emission Bandwidth



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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

RF Output Power (Power Meter)


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° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40° -35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45°
☐	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 he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

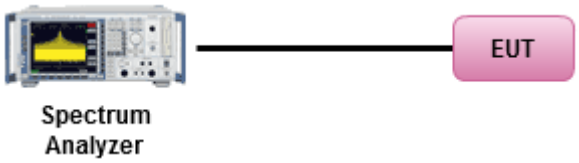
3.4.2 Measuring Instruments

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, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
	[duty cycle ≥ 98% 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: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup

Power Spectral Density


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).

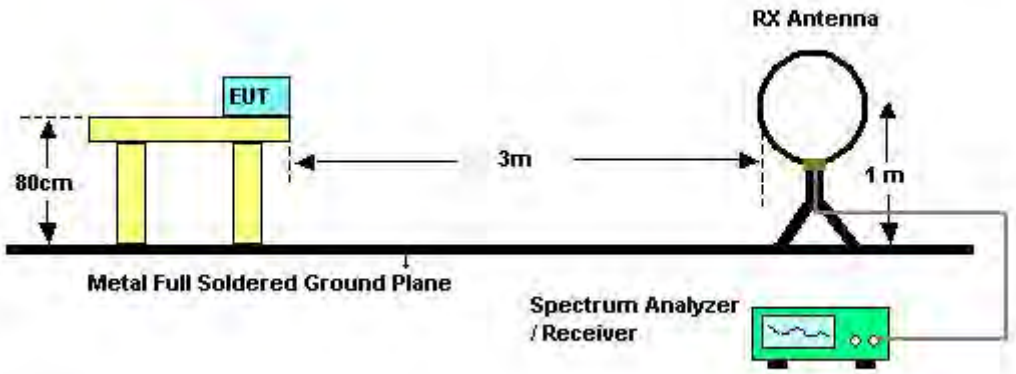
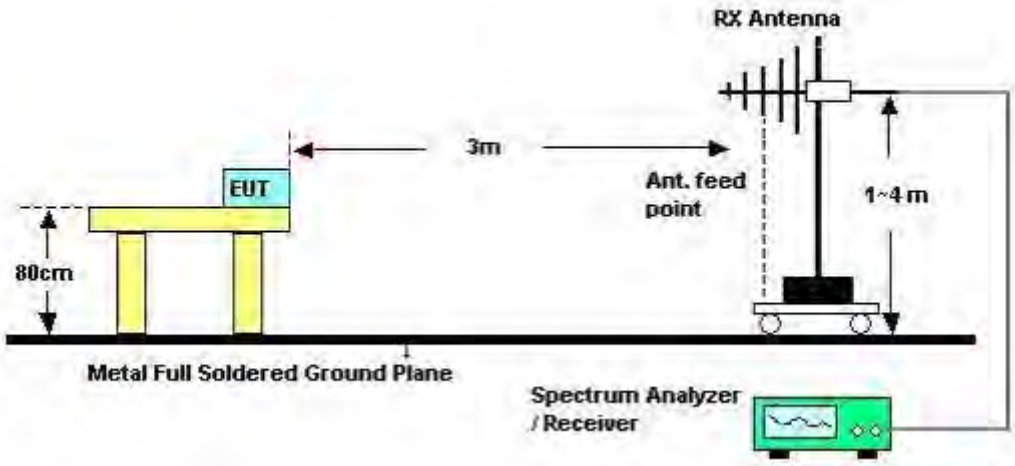
3.5.2 Measuring Instruments

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

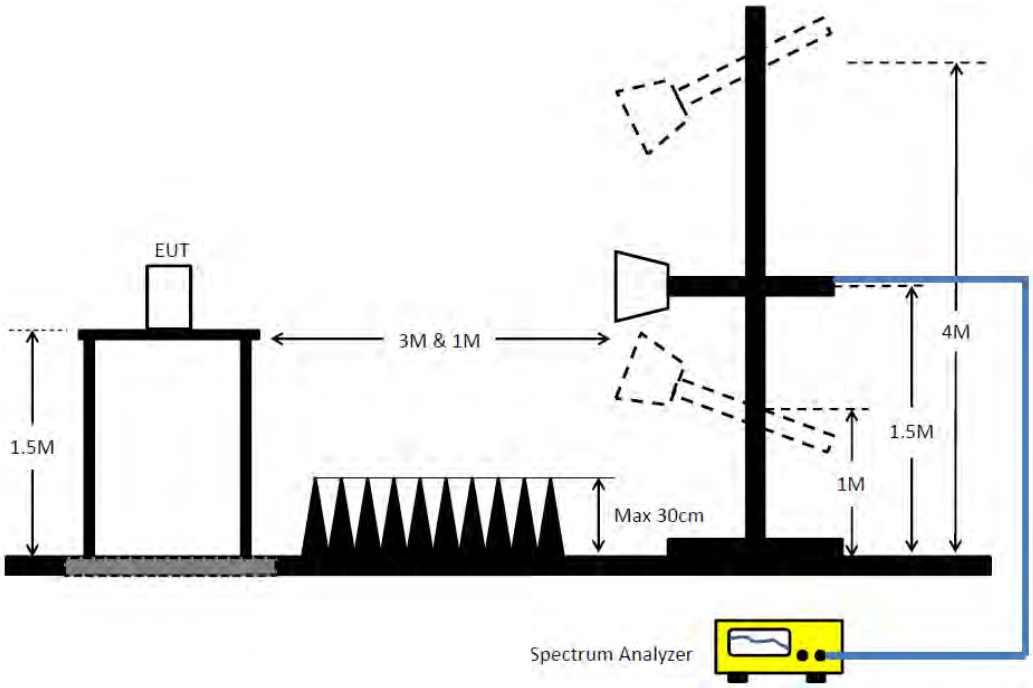
3.5.3 Test Procedures

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 ≥ 98 or duty factor].			
▪ For the transmitter unwanted emissions shall be measured using following options below:			
	▪ 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 ≥ 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.	
		☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.	
▪ For radiated measurement.			
	▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.		
	▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.		
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.		
▪ The any unwanted emissions level shall not exceed the fundamental emission level.			
▪ 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

Transmitter Radiated Unwanted Emissions
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



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
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 28, 2019	Jan. 29, 2020	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 24, 2018	Dec. 23, 2019	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Jan. 11, 2019	Jan. 10, 2020	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESE & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 28, 2019	Mar. 27, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 01, 2019	Apr. 30, 2020	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1292	1GHz~18GHz	Jul. 17, 2019	Jul. 16, 2020	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 08, 2019	May 07, 2020	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 21, 2019	Oct. 20, 2020	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05+24	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)

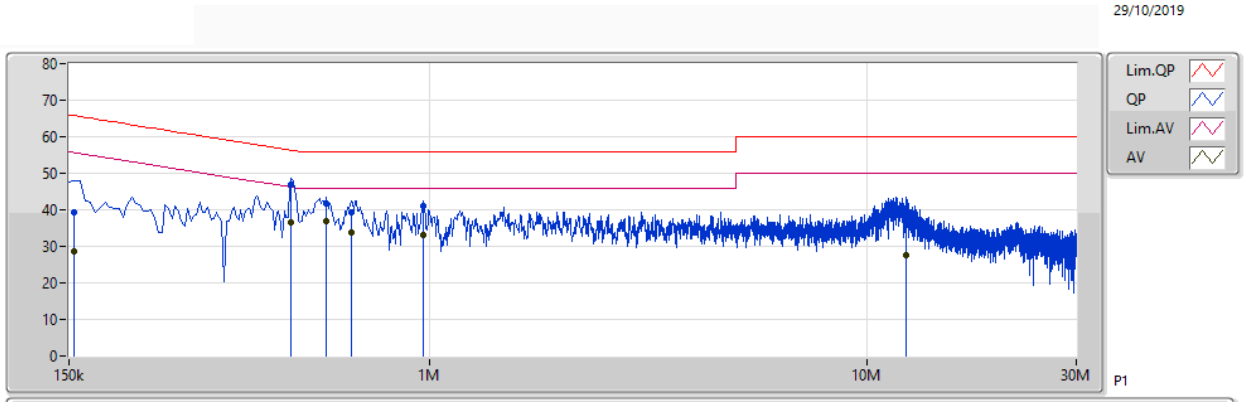
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (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)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 18, 2019	Nov. 17, 2020	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.

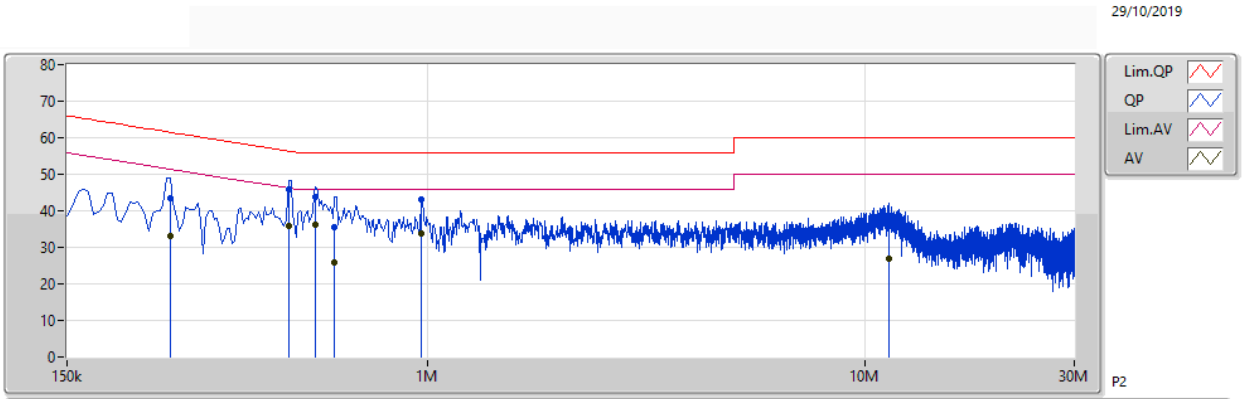
Test Mode	Mode 1	**Frequency Range**	0.15 MHz to 30 MHz

Line



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	154.5k	39.33	65.75	-26.42	9.90	Line	-	29.43	0.05	0.06	9.79
AV	154.5k	28.77	55.75	-26.98	9.90	Line	-	18.87	0.05	0.06	9.79
QP	483k	46.78	56.29	-9.51	9.94	Line	-	36.84	0.06	0.07	9.81
AV	483k	36.39	46.29	-9.90	9.94	Line	-	26.45	0.06	0.07	9.81
QP	582k	41.76	56.00	-14.24	9.94	Line	-	31.82	0.06	0.07	9.81
AV	582k	36.86	46.00	-9.14	9.94	Line	"Worst"	26.92	0.06	0.07	9.81
QP	663k	39.27	56.00	-16.73	9.97	Line	-	29.30	0.07	0.08	9.82
AV	663k	33.69	46.00	-12.31	9.97	Line	-	23.72	0.07	0.08	9.82
QP	964.5k	40.90	56.00	-15.10	9.98	Line	-	30.92	0.07	0.09	9.82
AV	964.5k	33.26	46.00	-12.74	9.98	Line	-	23.28	0.07	0.09	9.82
QP	12.287M	37.66	60.00	-22.34	10.37	Line	-	27.29	0.23	0.22	9.92
AV	12.287M	27.60	50.00	-22.40	10.37	Line	-	17.23	0.23	0.22	9.92

Neutral



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	258k	43.50	61.49	-17.99	9.90	Neutral	-	33.60	0.04	0.06	9.80
AV	258k	33.04	51.49	-18.45	9.90	Neutral	-	23.14	0.04	0.06	9.80
QP	483k	45.82	56.29	-10.47	9.92	Neutral	-	35.90	0.04	0.07	9.81
AV	483k	35.78	46.29	-10.51	9.92	Neutral	-	25.86	0.04	0.07	9.81
QP	555k	43.76	56.00	-12.24	9.93	Neutral	-	33.83	0.05	0.07	9.81
AV	555k	36.12	46.00	-9.88	9.93	Neutral	"Worst"	26.19	0.05	0.07	9.81
QP	613.5k	35.65	56.00	-20.35	9.93	Neutral	-	25.72	0.05	0.07	9.81
AV	613.5k	26.03	46.00	-19.97	9.93	Neutral	-	16.10	0.05	0.07	9.81
QP	969k	43.22	56.00	-12.78	9.97	Neutral	-	33.25	0.06	0.09	9.82
AV	969k	33.92	46.00	-12.08	9.97	Neutral	-	23.95	0.06	0.09	9.82
QP	11.306M	37.32	60.00	-22.68	10.35	Neutral	-	26.97	0.20	0.23	9.92
AV	11.306M	27.05	50.00	-22.95	10.35	Neutral	-	16.70	0.20	0.23	9.92

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	44.7M	23.763M	23M8D7W	22.025M	16.492M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	45.9M	23.568M	23M6D7W	23.37M	17.841M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	79.62M	36.702M	36M7D7W	40.62M	36.222M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	81.84M	75.922M	75M9D7W	80.76M	75.682M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	51.57M	24.438M	24M4D7W	21.75M	18.981M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	79.5M	38.021M	38M0D7W	40.02M	37.541M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	81M	77.121M	77M1D7W	80.64M	76.882M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.325M	22.489M	22M5D7W	16.25M	17.966M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	17.67M	43.718M	43M7D7W	17.37M	27.946M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	36.3M	59.01M	59M0D7W	35.28M	53.493M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	75.48M	75.922M	75M9D7W	74.76M	75.922M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.96M	34.003M	34M0D7W	18.6M	31.184M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.5M	59.79M	59M8D7W	34.98M	53.433M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	76.08M	77.601M	77M6D7W	75.12M	77.361M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum99% 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

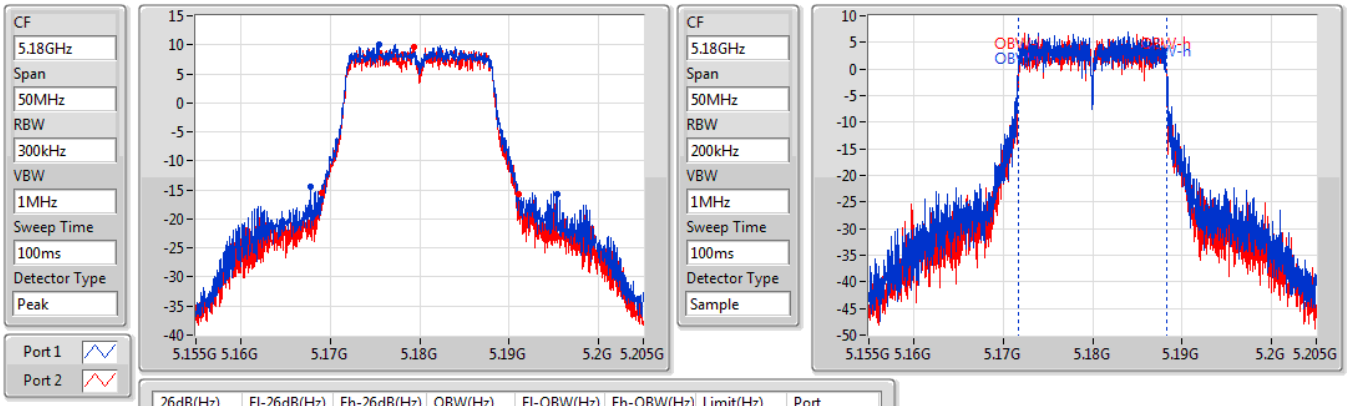
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	27.575M	16.642M	22.025M	16.492M
5200MHz	Pass	Inf	44.7M	23.763M	43.475M	22.189M
5240MHz	Pass	Inf	43.45M	19.165M	42.2M	18.316M
5745MHz	Pass	500k	16.325M	22.489M	16.325M	18.041M
5785MHz	Pass	500k	16.325M	20.365M	16.3M	17.966M
5825MHz	Pass	500k	16.25M	21.139M	16.325M	19.49M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	29.1M	17.871M	23.37M	17.841M
5200MHz	Pass	Inf	45.9M	23.568M	44.82M	21.439M
5240MHz	Pass	Inf	43.86M	19.55M	40.86M	18.681M
5745MHz	Pass	500k	17.64M	28.456M	17.58M	28.816M
5785MHz	Pass	500k	17.67M	43.718M	17.61M	43.448M
5825MHz	Pass	500k	17.64M	28.066M	17.37M	27.946M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.62M	36.222M	40.74M	36.282M
5230MHz	Pass	Inf	75.12M	36.642M	79.62M	36.702M
5755MHz	Pass	500k	35.28M	59.01M	36.3M	58.471M
5795MHz	Pass	500k	36.3M	53.913M	36.3M	53.493M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.84M	75.922M	80.76M	75.682M
5775MHz	Pass	500k	74.76M	75.922M	75.48M	75.922M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	29.04M	18.981M	21.75M	18.981M
5200MHz	Pass	Inf	51.57M	24.438M	48.63M	21.079M
5240MHz	Pass	Inf	44.67M	19.7M	45.69M	19.4M
5745MHz	Pass	500k	18.96M	31.184M	18.96M	31.274M
5785MHz	Pass	500k	18.66M	32.744M	18.84M	33.553M
5825MHz	Pass	500k	18.6M	33.523M	18.63M	34.003M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.08M	37.601M	40.02M	37.541M
5230MHz	Pass	Inf	79.5M	38.021M	78.84M	38.021M
5755MHz	Pass	500k	37.5M	59.55M	37.44M	59.79M
5795MHz	Pass	500k	35.46M	53.433M	34.98M	53.553M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	80.64M	77.121M	81M	76.882M
5775MHz	Pass	500k	76.08M	77.361M	75.12M	77.601M

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

21/10/2019

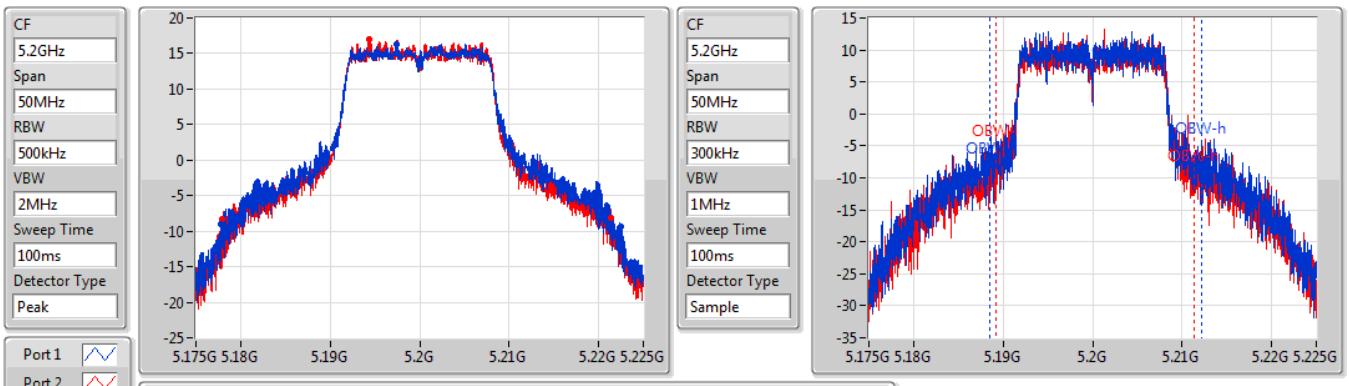


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.575M	5.16775G	5.195325G	16.642M	5.171654G	5.188296G	Inf	1
22.025M	5.169075G	5.1911G	16.492M	5.171729G	5.188221G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5200MHz

21/10/2019

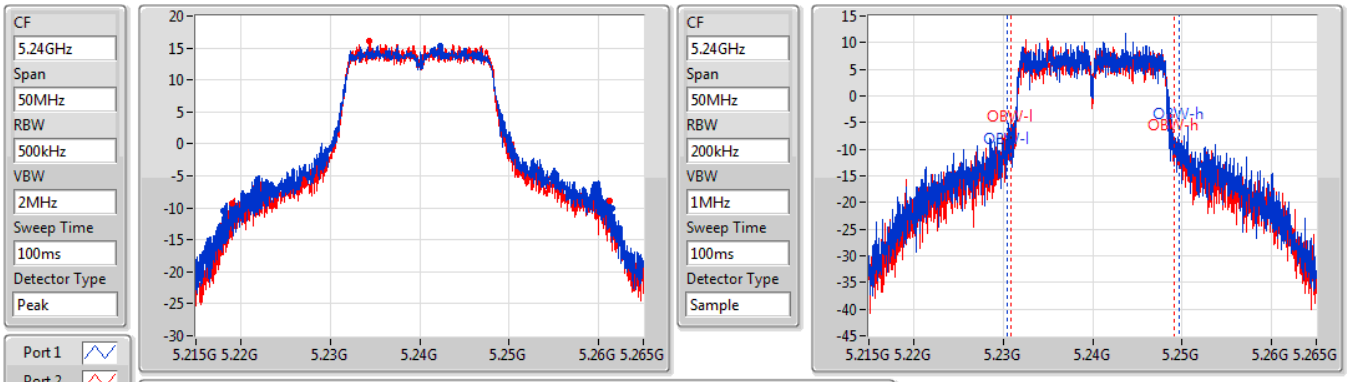


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
44.7M	5.17785G	5.22255G	23.763M	5.188481G	5.212244G	Inf	1
43.475M	5.17795G	5.221425G	22.189M	5.189155G	5.211344G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5240MHz

21/10/2019

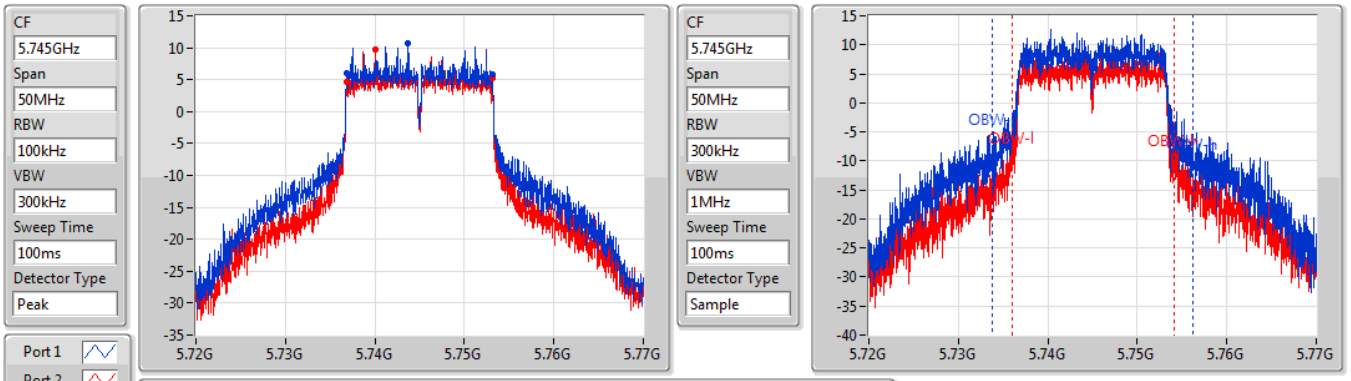


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.45M	5.21805G	5.2615G	19.165M	5.23048G	5.249645G	Inf	1
42.2M	5.219075G	5.261275G	18.316M	5.230855G	5.24917G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5745MHz

21/10/2019

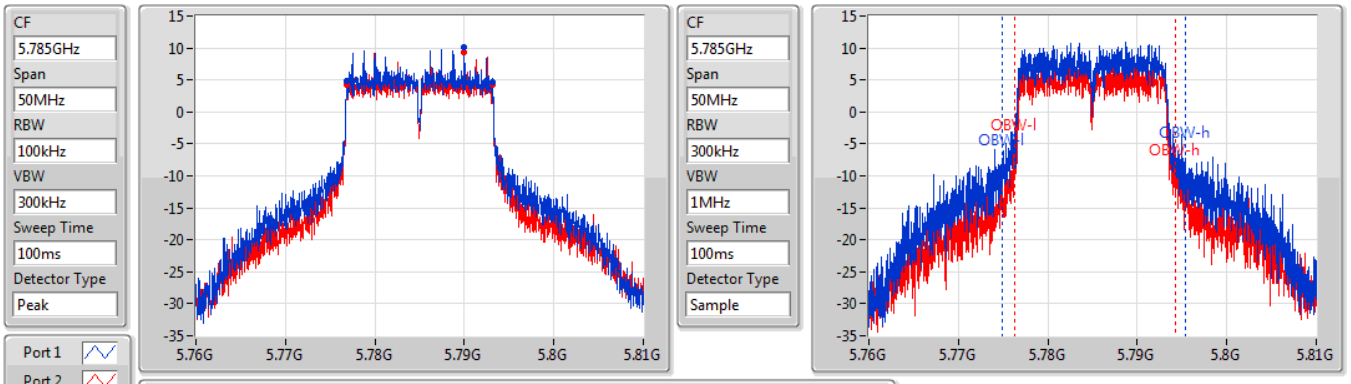


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.736825G	5.75315G	22.489M	5.733781G	5.756269G	500k	1
16.325M	5.736825G	5.75315G	18.041M	5.736029G	5.75407G	500k	2

802.11a_Nss1,(6Mbps)_2TX EBW

5785MHz

21/10/2019

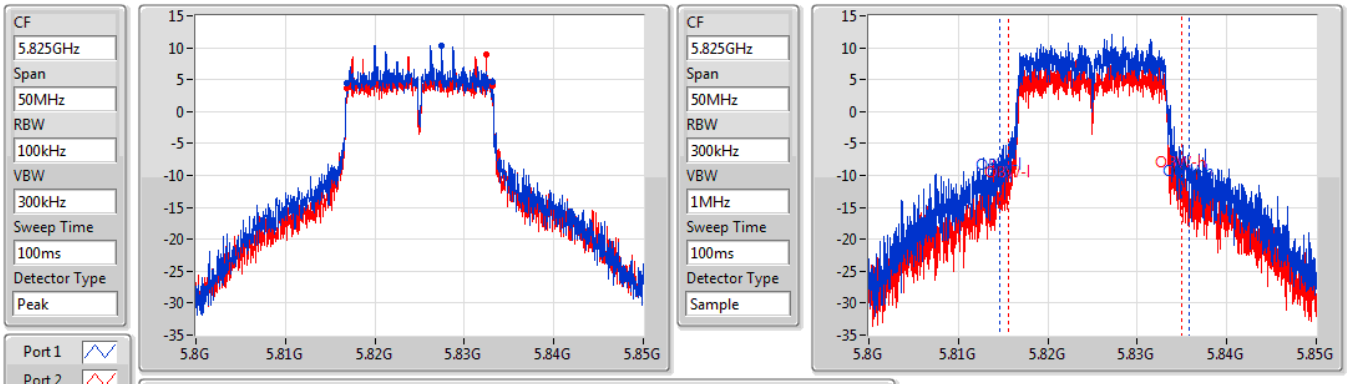


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.776825G	5.79315G	20.365M	5.774955G	5.79532G	500k	1
16.3M	5.77685G	5.79315G	17.966M	5.776229G	5.794195G	500k	2

802.11a_Nss1,(6Mbps)_2TX EBW

5825MHz

21/10/2019

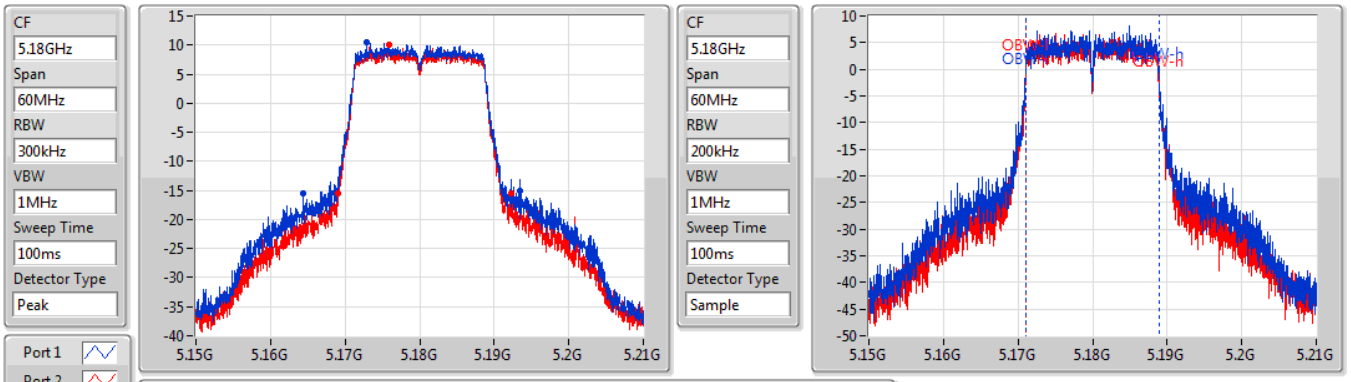


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.25M	5.8169G	5.83315G	21.139M	5.81468G	5.83582G	500k	1
16.325M	5.816825G	5.83315G	19.49M	5.81553G	5.83502G	500k	2

802.11ac VHT20-BF_Nss1,(MCS0)_2TX EBW

5180MHz

04/11/2019

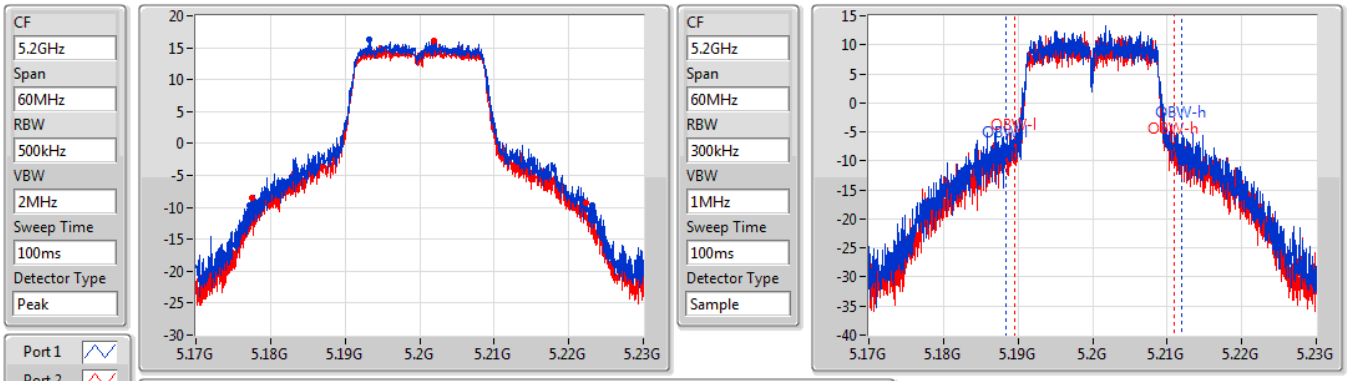


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.1M	5.16434G	5.19344G	17.871M	5.171034G	5.188906G	Inf	1
23.37M	5.16899G	5.19236G	17.841M	5.171034G	5.188876G	Inf	2

802.11ac VHT20-BF_Nss1,(MCS0)_2TX EBW

5200MHz

04/11/2019

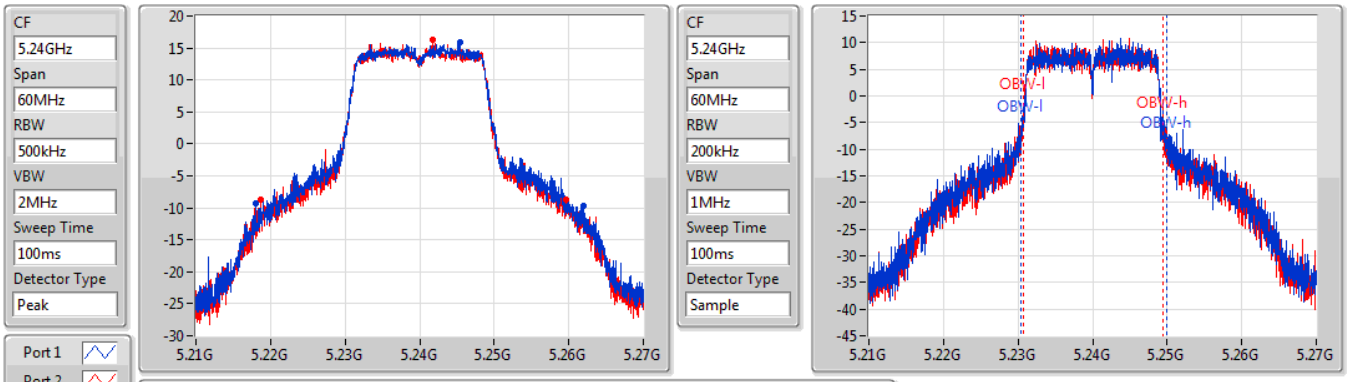


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
45.9M	5.17723G	5.22313G	23.568M	5.188426G	5.211994G	Inf	1
44.82M	5.17747G	5.22229G	21.439M	5.189475G	5.210915G	Inf	2

802.11ac VHT20-BF_Nss1,(MCS0)_2TX EBW

5240MHz

04/11/2019

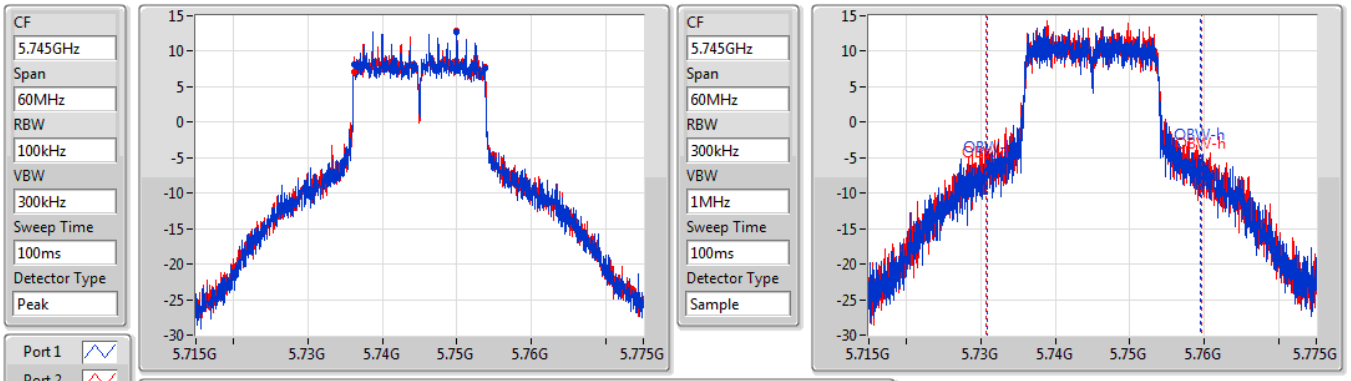


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.86M	5.21807G	5.26193G	19.55M	5.230405G	5.249955G	Inf	1
40.86M	5.21873G	5.25959G	18.681M	5.230735G	5.249415G	Inf	2

802.11ac VHT20-BF_Nss1,(MCS0)_2TX EBW

5745MHz

04/11/2019

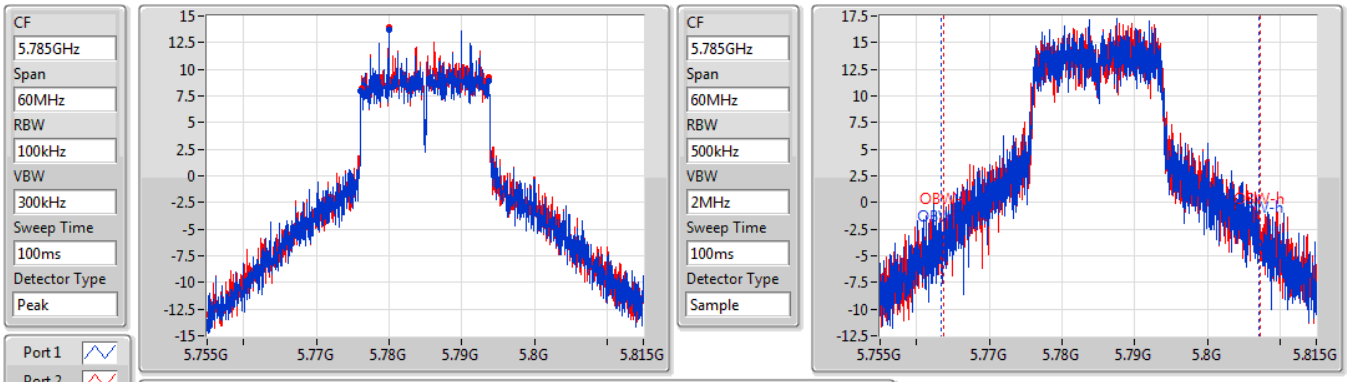


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.64M	5.73615G	5.75379G	28.456M	5.730937G	5.759393G	500k	1
17.58M	5.73615G	5.75373G	28.816M	5.730757G	5.759573G	500k	2

802.11ac VHT20-BF_Nss1,(MCS0)_2TX EBW

5785MHz

04/11/2019

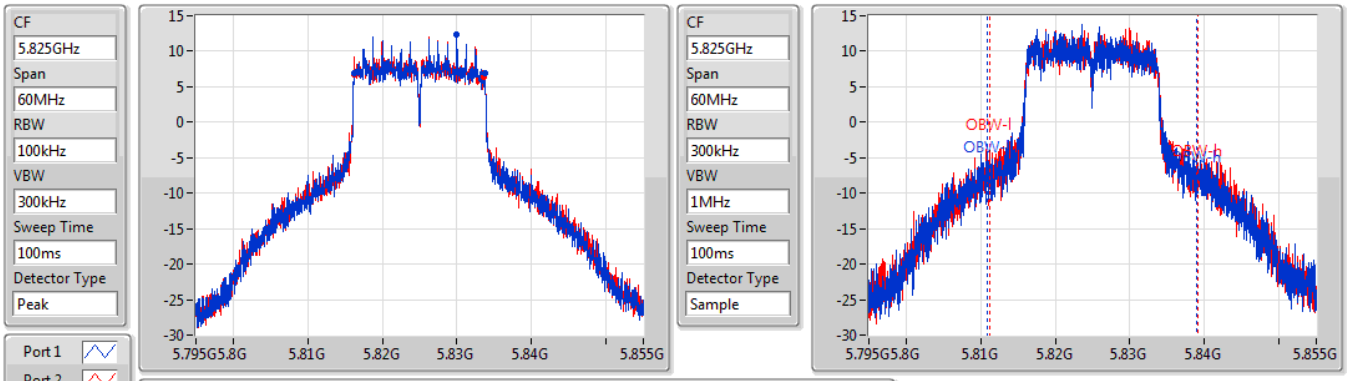


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.67M	5.77615G	5.79382G	43.718M	5.763441G	5.807159G	500k	1
17.61M	5.77618G	5.79379G	43.448M	5.763801G	5.807249G	500k	2

802.11ac VHT20-BF_Nss1,(MCS0)_2TX EBW

5825MHz

04/11/2019

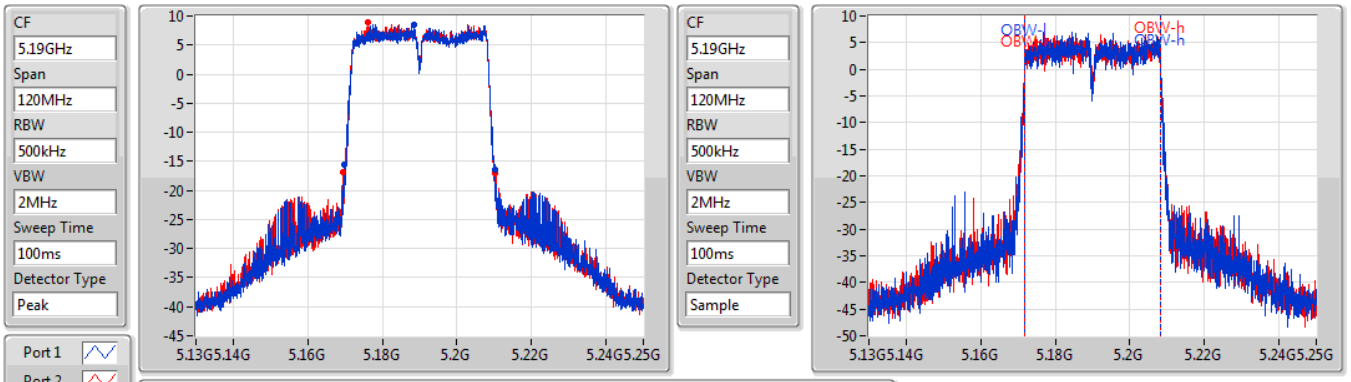


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.64M	5.81618G	5.83382G	28.066M	5.810937G	5.839003G	500k	1
17.37M	5.81618G	5.83355G	27.946M	5.811177G	5.839123G	500k	2

802.11ac VHT40-BF_Nss1,(MCS0)_2TX EBW

5190MHz

04/11/2019

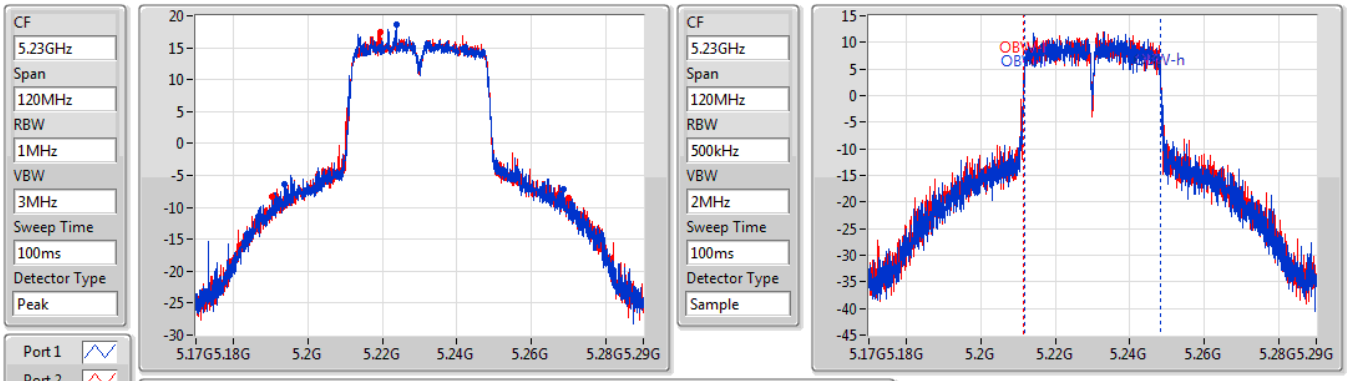


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.62M	5.16966G	5.21028G	36.222M	5.171949G	5.208171G	Inf	1
40.74M	5.1696G	5.21034G	36.282M	5.171889G	5.208171G	Inf	2

802.11ac VHT40-BF_Nss1,(MCS0)_2TX EBW

5230MHz

04/11/2019

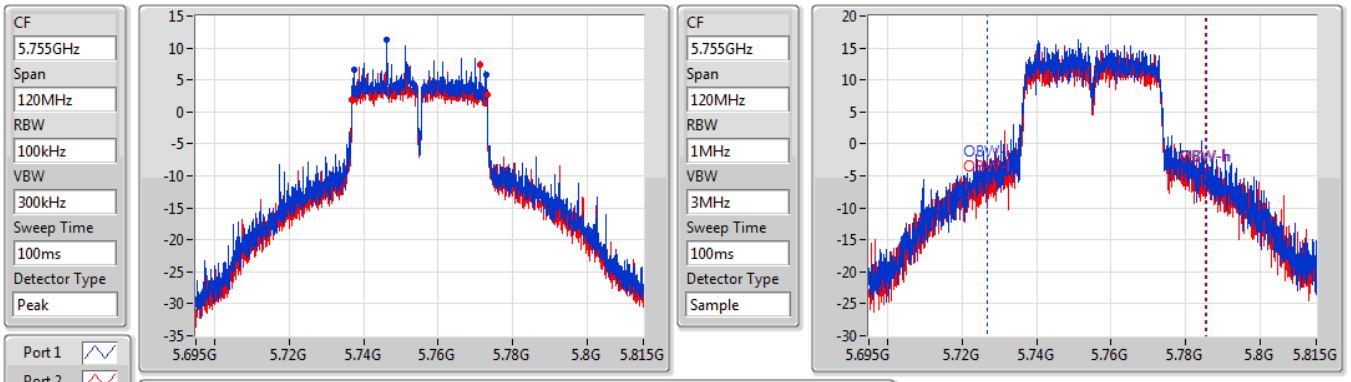


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.12M	5.19364G	5.26876G	36.642M	5.211649G	5.248291G	Inf	1
79.62M	5.1904G	5.27002G	36.702M	5.211589G	5.248291G	Inf	2

802.11ac VHT40-BF_Nss1,(MCS0)_2TX EBW

5755MHz

04/11/2019

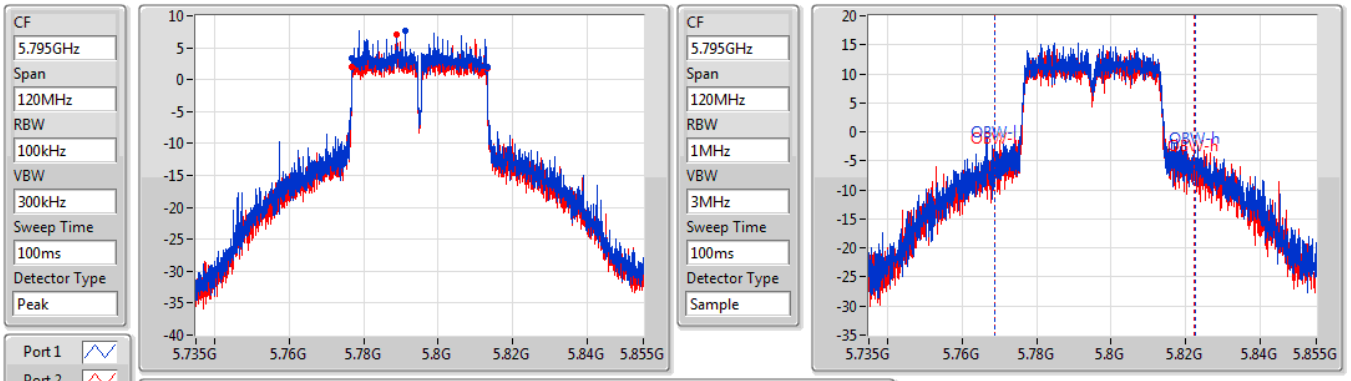


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.28M	5.73748G	5.77276G	59.01M	5.726634G	5.785645G	500k	1
36.3M	5.73682G	5.77312G	58.471M	5.726814G	5.785285G	500k	2

802.11ac VHT40-BF_Nss1,(MCS0)_2TX EBW

5795MHz

04/11/2019

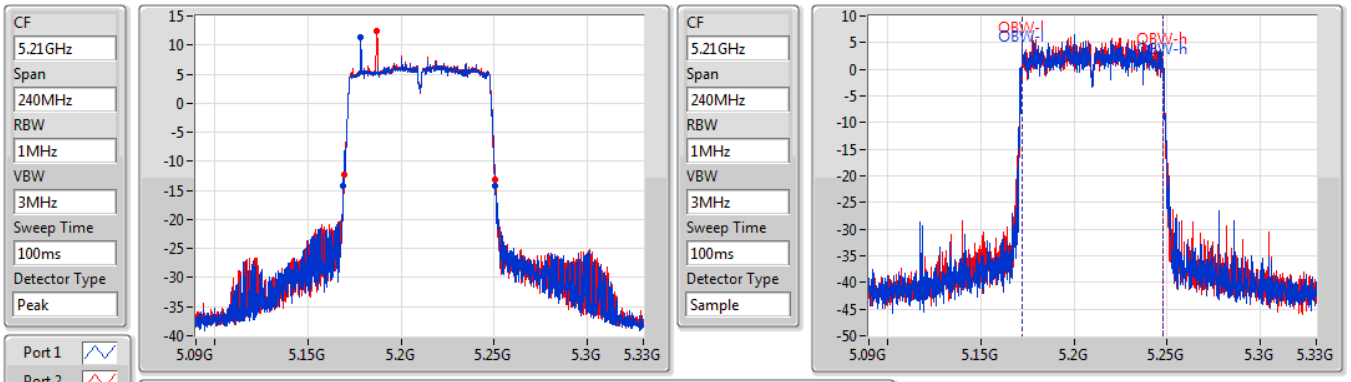


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.77682G	5.81312G	53.913M	5.768673G	5.822586G	500k	1
36.3M	5.77682G	5.81312G	53.493M	5.768913G	5.822406G	500k	2

802.11ac VHT80-BF_Nss1,(MCS0)_2TX EBW

5210MHz

04/11/2019

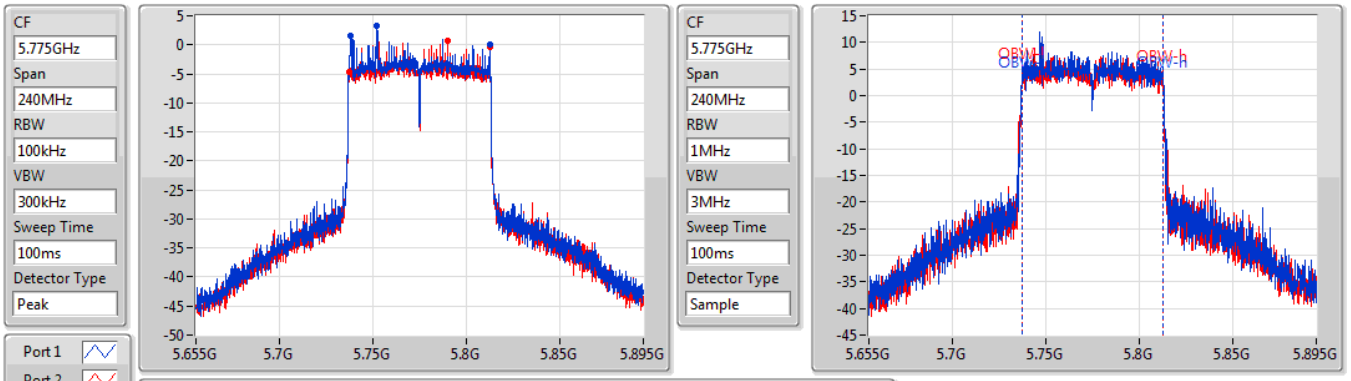


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.84M	5.16884G	5.25068G	75.922M	5.171979G	5.247901G	Inf	1
80.76M	5.1698G	5.25056G	75.682M	5.172099G	5.247781G	Inf	2

802.11ac VHT80-BF_Nss1,(MCS0)_2TX EBW

5775MHz

04/11/2019

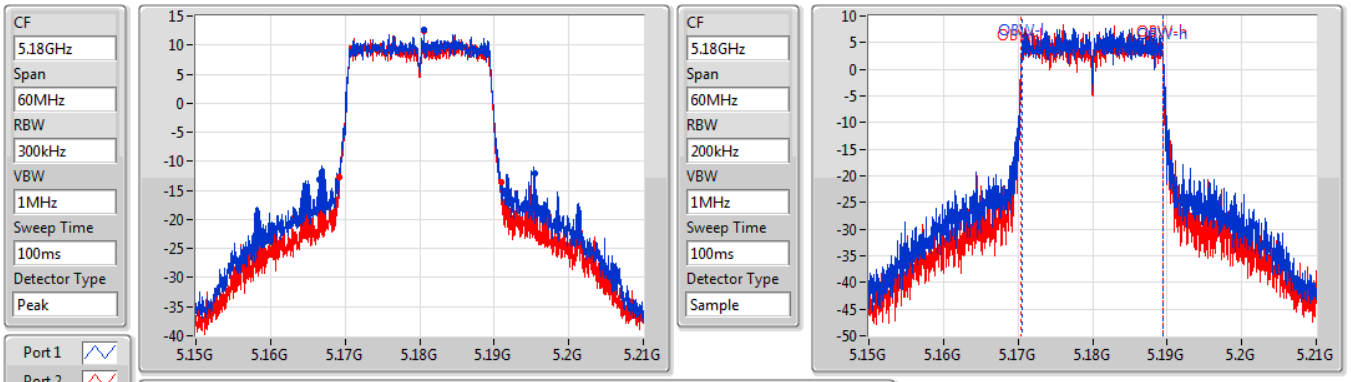


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
74.76M	5.73768G	5.81244G	75.922M	5.736979G	5.812901G	500k	1
75.48M	5.73708G	5.81256G	75.922M	5.736979G	5.812901G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

5180MHz

04/11/2019

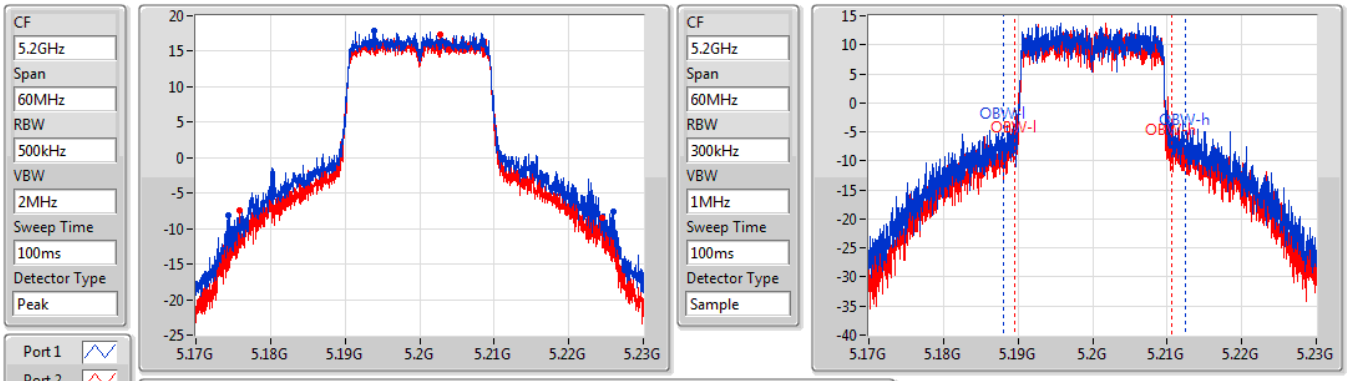


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.04M	5.16647G	5.19551G	18.981M	5.170495G	5.189475G	Inf	1
21.75M	5.1692G	5.19095G	18.981M	5.170465G	5.189445G	Inf	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

5200MHz

04/11/2019

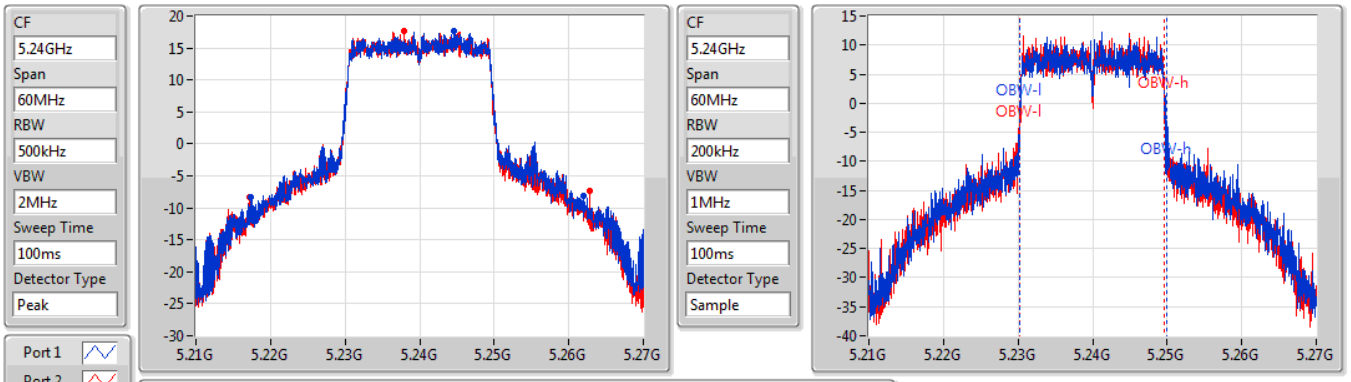


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
51.57M	5.17441G	5.22598G	24.438M	5.188006G	5.212444G	Inf	1
48.63M	5.17591G	5.22454G	21.079M	5.189595G	5.210675G	Inf	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

5240MHz

04/11/2019

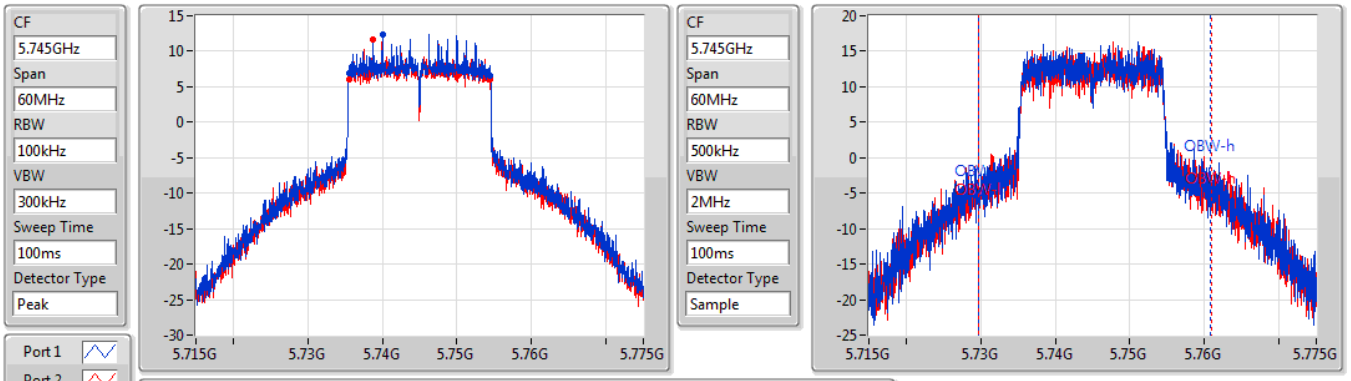


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
44.67M	5.21735G	5.26202G	19.7M	5.230285G	5.249985G	Inf	1
45.69M	5.21711G	5.2628G	19.4M	5.230285G	5.249685G	Inf	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

5745MHz

04/11/2019

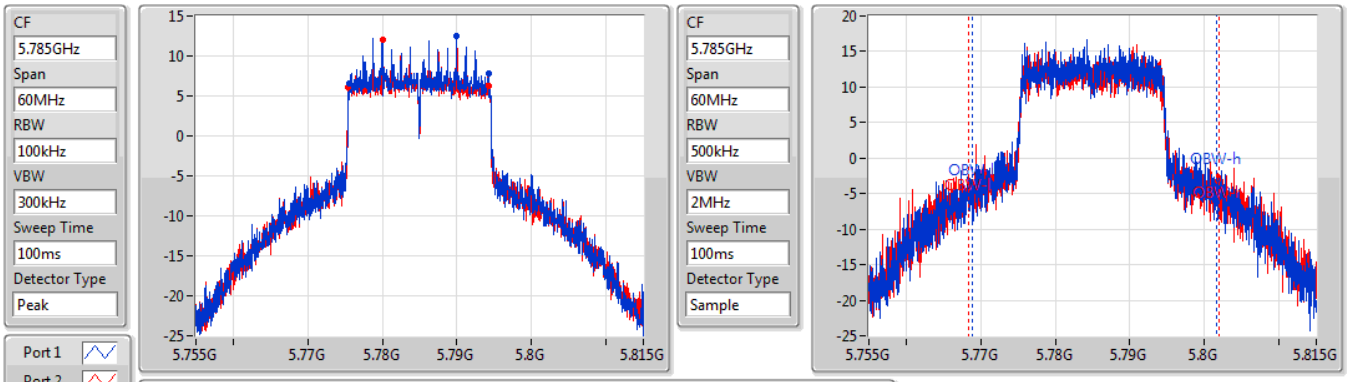


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.96M	5.73549G	5.75445G	31.184M	5.729678G	5.760862G	500k	1
18.96M	5.73549G	5.75445G	31.274M	5.729678G	5.760952G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

5785MHz

04/11/2019

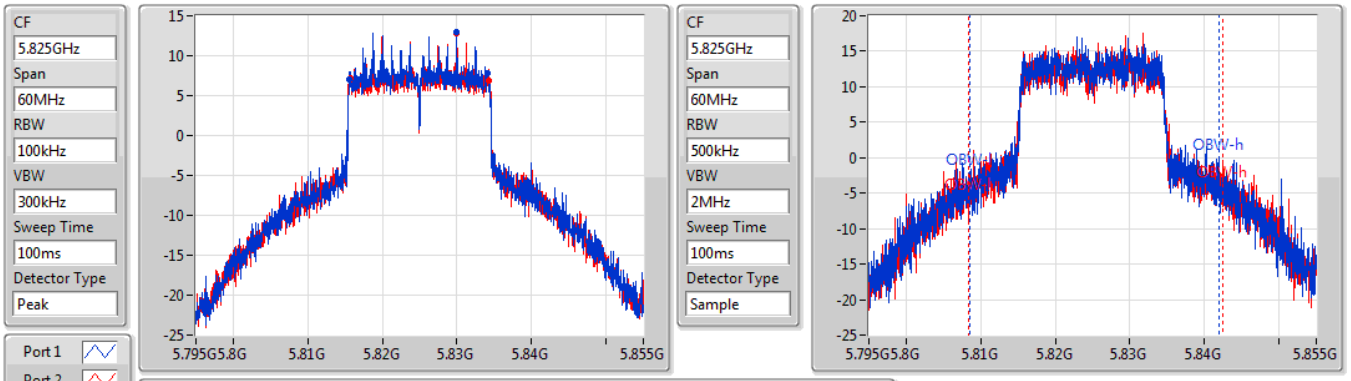


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.66M	5.77558G	5.79424G	32.744M	5.768808G	5.801552G	500k	1
18.84M	5.77546G	5.7943G	33.553M	5.768328G	5.801882G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

5825MHz

04/11/2019

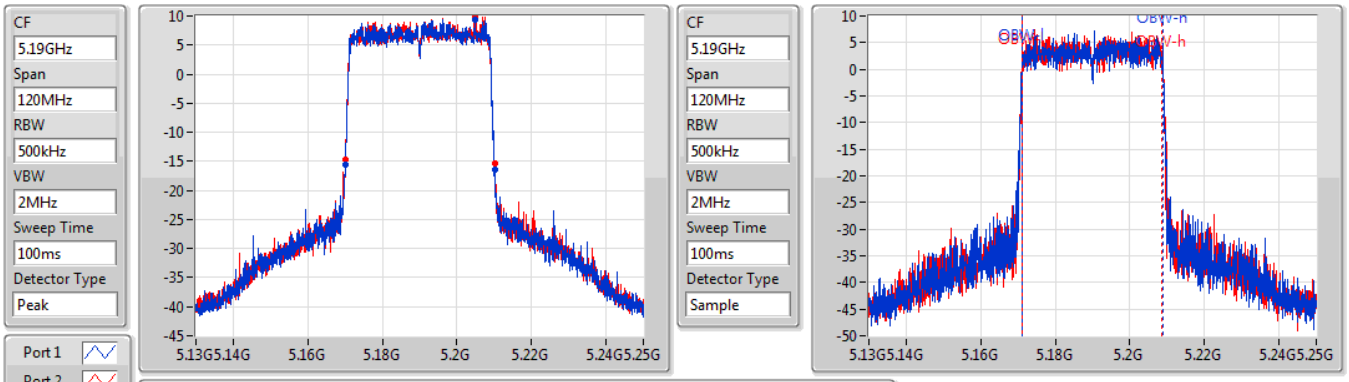


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.6M	5.81558G	5.83418G	33.523M	5.808508G	5.842031G	500k	1
18.63M	5.81567G	5.8343G	34.003M	5.808418G	5.842421G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

5190MHz

04/11/2019

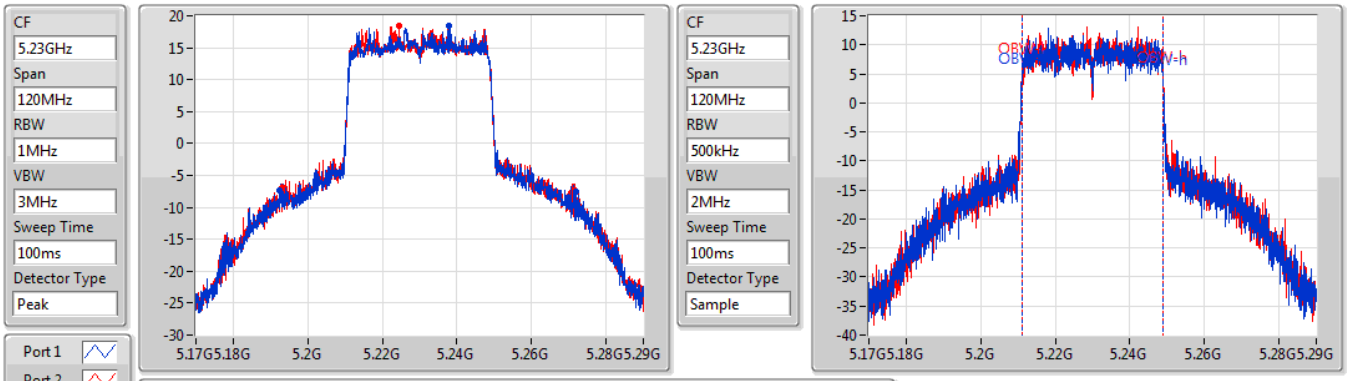


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.08M	5.17008G	5.21016G	37.601M	5.171229G	5.208831G	Inf	1
40.02M	5.17008G	5.2101G	37.541M	5.171169G	5.208711G	Inf	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

5230MHz

04/11/2019

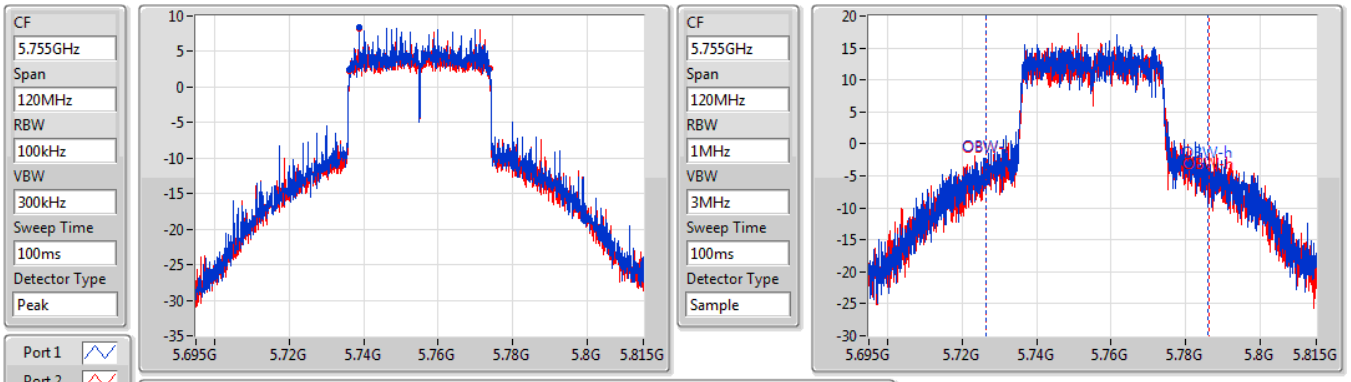


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
79.5M	5.19244G	5.27194G	38.021M	5.21099G	5.24901G	Inf	1
78.84M	5.19292G	5.27176G	38.021M	5.21099G	5.24901G	Inf	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

5755MHz

04/11/2019

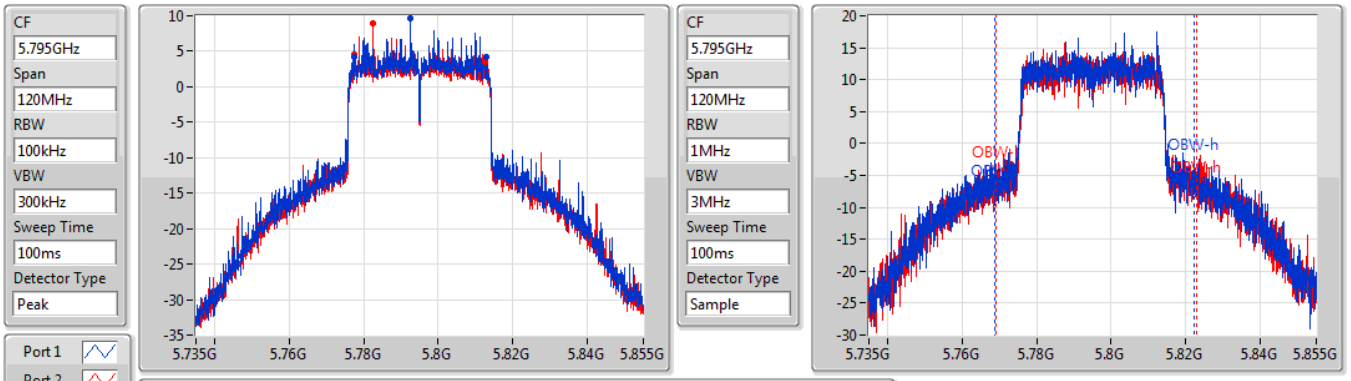


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.5M	5.73616G	5.77366G	59.55M	5.726334G	5.785885G	500k	1
37.44M	5.73628G	5.77372G	59.79M	5.726574G	5.786364G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

5795MHz

04/11/2019

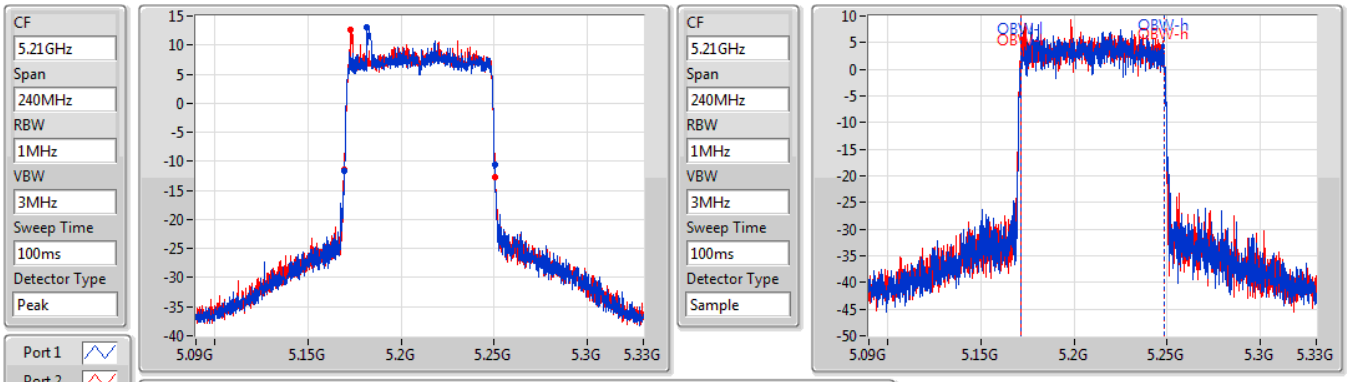


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.46M	5.7773G	5.81276G	53.433M	5.768913G	5.822346G	500k	1
34.98M	5.77748G	5.81246G	53.553M	5.769213G	5.822766G	500k	2

802.11ax HEW80-BF_Nss1,(MCS0)_2TX EBW

5210MHz

04/11/2019

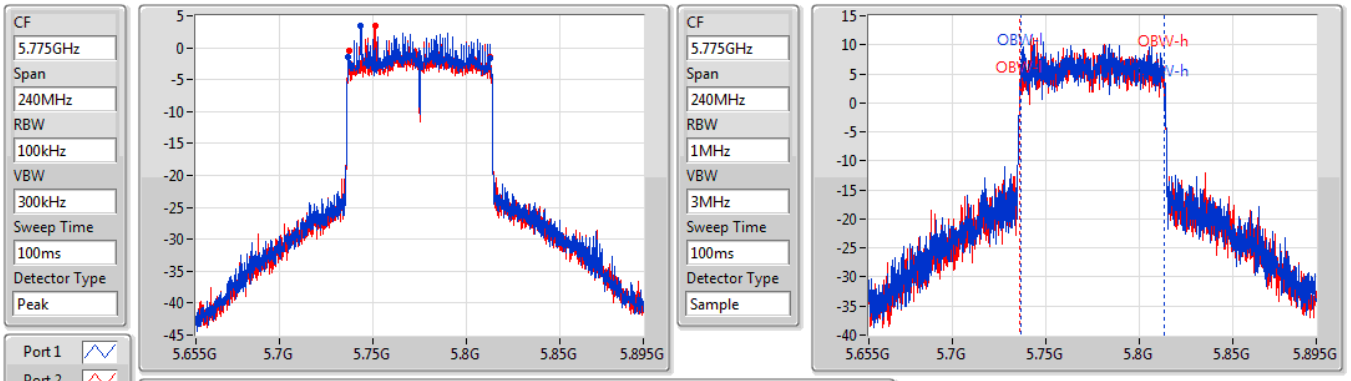


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
80.64M	5.16968G	5.25032G	77.121M	5.171379G	5.248501G	Inf	1
81M	5.16944G	5.25044G	76.882M	5.171499G	5.248381G	Inf	2

802.11ax HEW80-BF_Nss1,(MCS0)_2TX EBW

5775MHz

04/11/2019



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.08M	5.7366G	5.81268G	77.361M	5.736259G	5.813621G	500k	1
75.12M	5.73744G	5.81256G	77.601M	5.736139G	5.813741G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	26.36	0.43251
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	25.60	0.36308
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	23.21	0.20941
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	17.50	0.05623
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.51	0.28249
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	23.81	0.24044
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	18.29	0.06745
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	25.33	0.34119
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	25.73	0.37411
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	24.82	0.30339
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	20.20	0.10471
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	25.27	0.33651
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.46	0.27925
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	21.13	0.12972

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.00	19.37	18.68	22.05	30.00
5200MHz	Pass	5.00	23.51	23.18	26.36	30.00
5240MHz	Pass	5.00	22.52	22.19	25.37	30.00
5745MHz	Pass	5.00	22.61	22.01	25.33	30.00
5785MHz	Pass	5.00	22.09	21.3	24.72	30.00
5825MHz	Pass	5.00	22.03	21.2	24.65	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.01	17.58	17.3	20.45	27.99
5200MHz	Pass	8.01	21.58	21.03	24.32	27.99
5240MHz	Pass	8.01	22.57	22.61	25.60	27.99
5745MHz	Pass	8.01	21.89	22.03	24.97	27.99
5785MHz	Pass	8.01	22.87	22.57	25.73	27.99
5825MHz	Pass	8.01	21.26	21.65	24.47	27.99
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.01	15.23	15.02	18.14	27.99
5230MHz	Pass	8.01	20.32	20.08	23.21	27.99
5755MHz	Pass	8.01	22.13	21.46	24.82	27.99
5795MHz	Pass	8.01	20.86	20.21	23.56	27.99
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.01	14.29	14.68	17.50	27.99
5775MHz	Pass	8.01	17.42	16.94	20.20	27.99
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.01	17.95	17.27	20.63	27.99
5200MHz	Pass	8.01	22	20.93	24.51	27.99
5240MHz	Pass	8.01	21.08	21.13	24.12	27.99
5745MHz	Pass	8.01	21.87	22.27	25.08	27.99
5785MHz	Pass	8.01	21.91	21.56	24.75	27.99
5825MHz	Pass	8.01	21.99	22.52	25.27	27.99
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.01	15.25	15.32	18.30	27.99
5230MHz	Pass	8.01	21.04	20.54	23.81	27.99
5755MHz	Pass	8.01	21.83	21.03	24.46	27.99
5795MHz	Pass	8.01	20.94	20.48	23.73	27.99
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.01	15.27	15.29	18.29	27.99
5775MHz	Pass	8.01	18.45	17.76	21.13	27.99

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	12.63
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	13.01
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	8.6
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-0.59
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	12.13
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	8.18
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.49
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	9.86
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	12.18
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	7.65
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	0.43
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	10.87
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	7.52
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	1.42

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

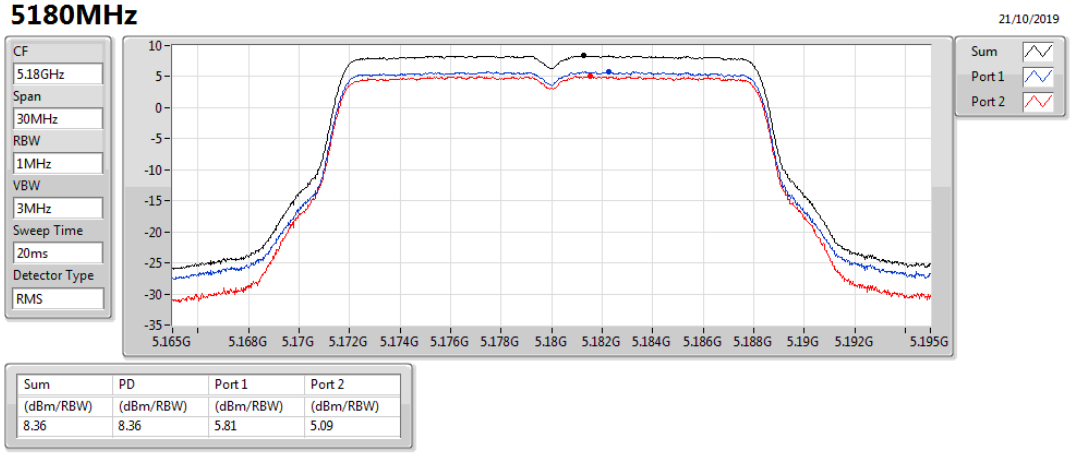
Result

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	8.01	5.81	5.09	8.36	14.99
5200MHz	Pass	8.01	9.81	9.58	12.63	14.99
5240MHz	Pass	8.01	9.05	8.62	11.76	14.99
5745MHz	Pass	8.01	7.33	6.51	9.86	27.99
5785MHz	Pass	8.01	6.7	6.14	9.40	27.99
5825MHz	Pass	8.01	6.75	6.37	9.44	27.99
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.01	5.95	5.35	8.55	14.99
5200MHz	Pass	8.01	9.26	8.77	11.92	14.99
5240MHz	Pass	8.01	10.02	10.12	13.01	14.99
5745MHz	Pass	8.01	8.55	8.54	11.53	27.99
5785MHz	Pass	8.01	9.21	9.39	12.18	27.99
5825MHz	Pass	8.01	7.88	8.12	10.84	27.99
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.01	0.98	1.23	4.09	14.99
5230MHz	Pass	8.01	5.65	5.72	8.60	14.99
5755MHz	Pass	8.01	5.12	4.25	7.65	27.99
5795MHz	Pass	8.01	4.16	3.34	6.72	27.99
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.01	-3.52	-3.36	-0.59	14.99
5775MHz	Pass	8.01	-2.19	-2.92	0.43	27.99
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.01	5.61	4.81	8.20	14.99
5200MHz	Pass	8.01	9.6	9.04	12.13	14.99
5240MHz	Pass	8.01	8.67	8.71	11.63	14.99
5745MHz	Pass	8.01	7.95	7.63	10.72	27.99
5785MHz	Pass	8.01	7.61	7.14	10.27	27.99
5825MHz	Pass	8.01	8.07	7.85	10.87	27.99
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.01	0.15	0.3	3.16	14.99
5230MHz	Pass	8.01	5.24	5.45	8.18	14.99
5755MHz	Pass	8.01	4.92	4.34	7.52	27.99
5795MHz	Pass	8.01	3.8	3.49	6.59	27.99
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.01	-2.48	-2.39	0.49	14.99
5775MHz	Pass	8.01	-1.39	-1.8	1.42	27.99

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

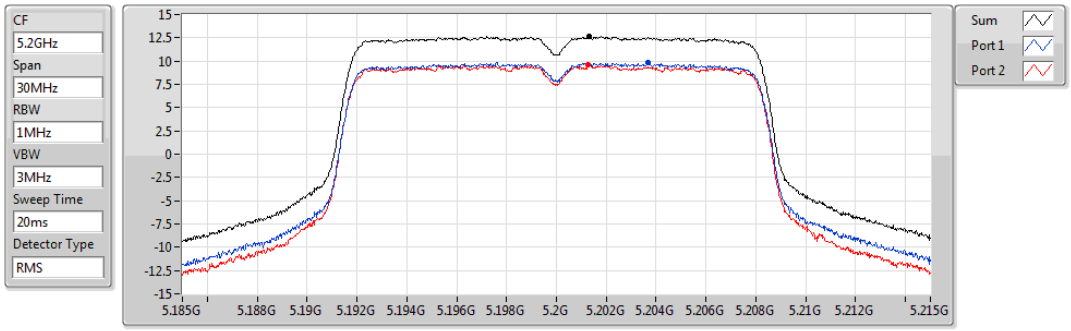
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.36	8.36	5.81	5.09

802.11a_Nss1,(6Mbps)_2TX PSD

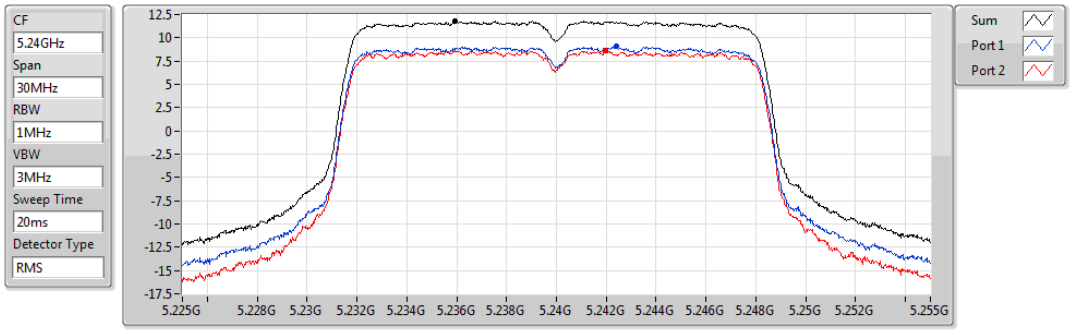
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.63	12.63	9.81	9.58

802.11a_Nss1,(6Mbps)_2TX PSD

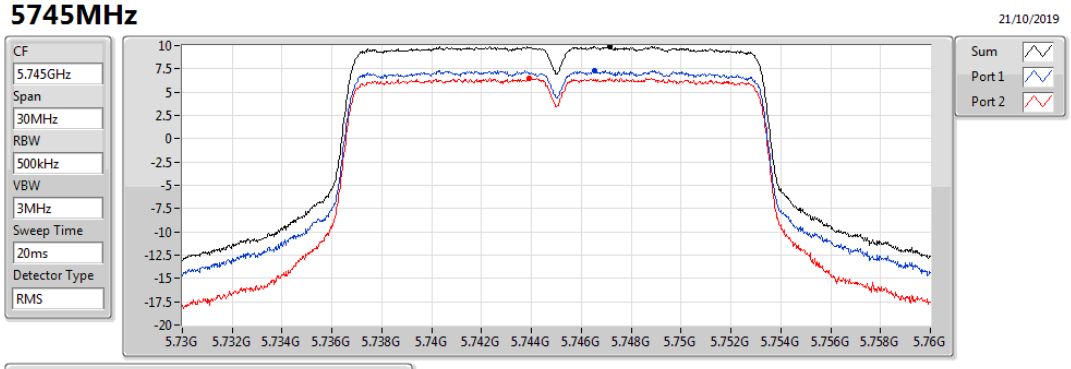
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.76	11.76	9.05	8.62

802.11a_Nss1,(6Mbps)_2TX PSD

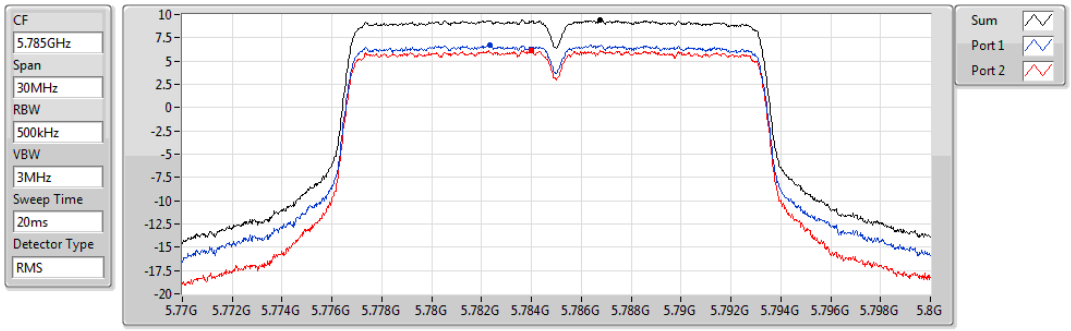
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.86	9.86	7.33	6.51

802.11a_Nss1,(6Mbps)_2TX PSD

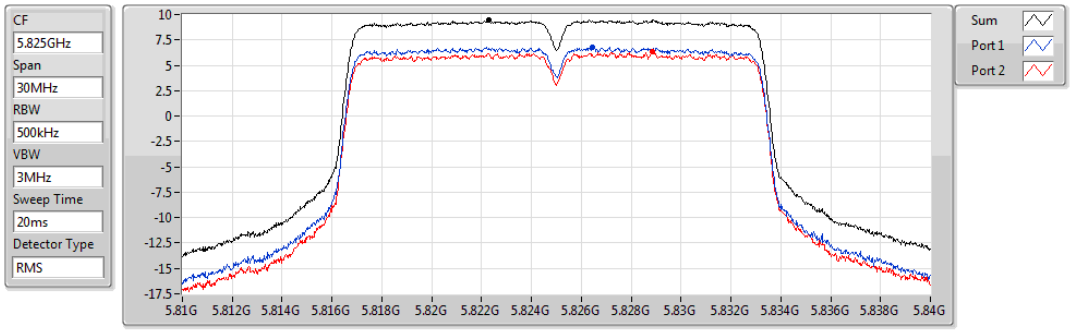
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.40	9.40	6.70	6.14

802.11a_Nss1,(6Mbps)_2TX PSD

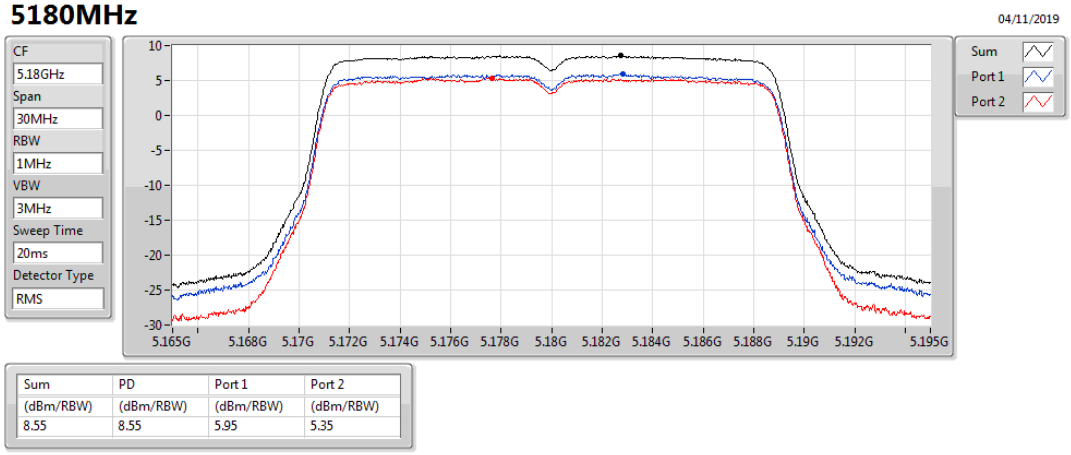
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.44	9.44	6.75	6.37

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

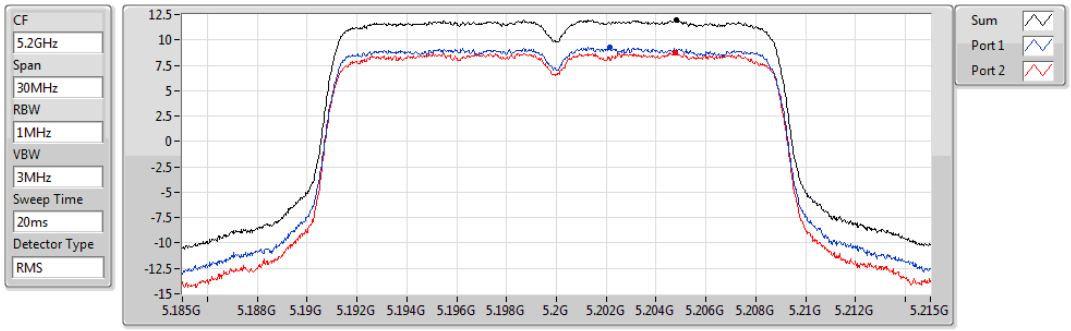
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.55	8.55	5.95	5.35

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

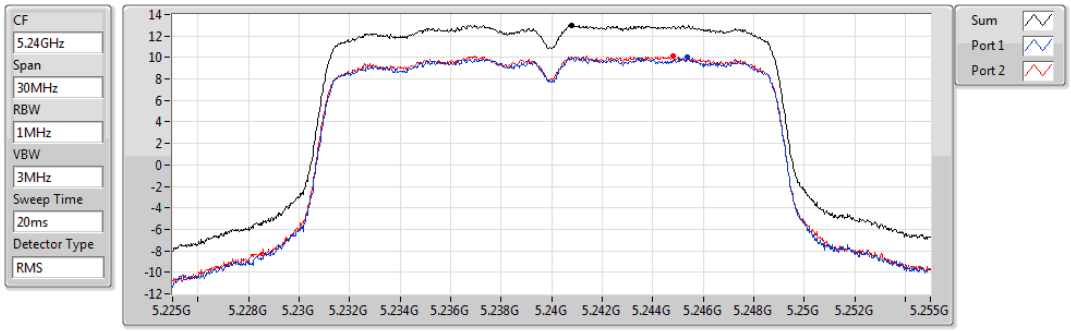
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.92	11.92	9.26	8.77

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

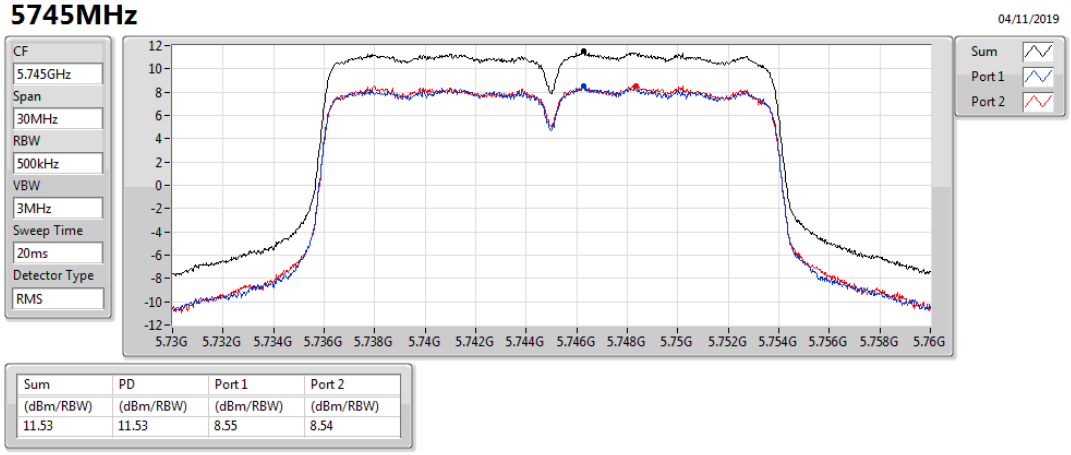
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.01	13.01	10.02	10.12

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

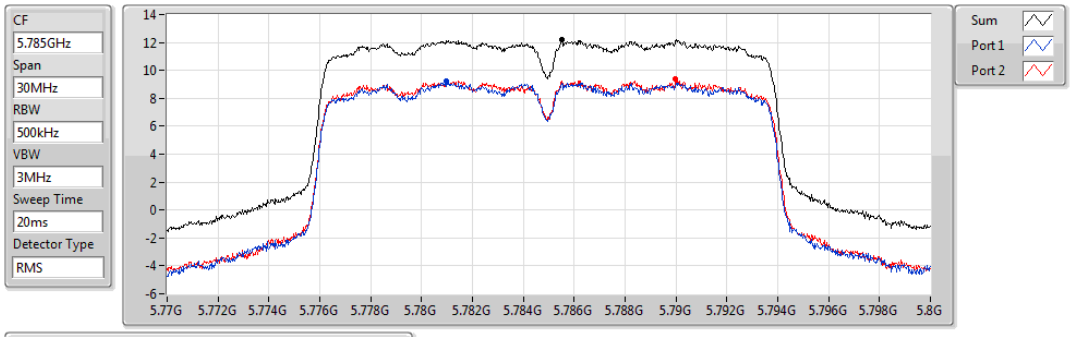
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.53	11.53	8.55	8.54

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

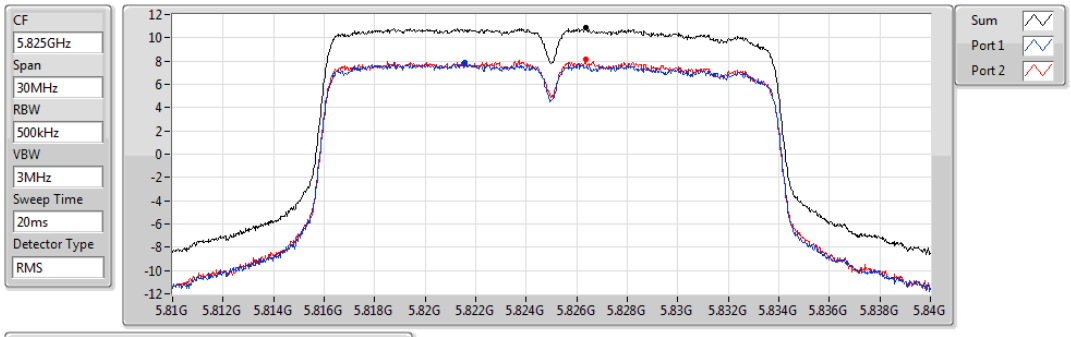
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.18	12.18	9.21	9.39

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

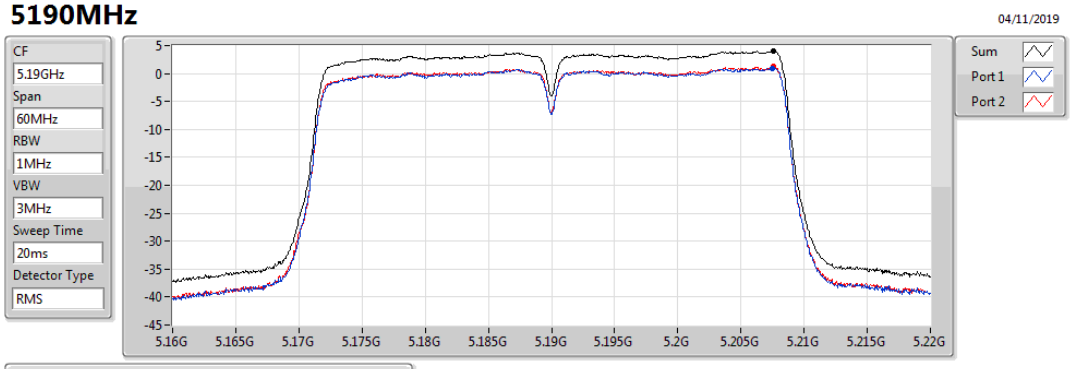
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.84	10.84	7.88	8.12

802.11ac VHT40-BF_Nss1,(MCS0)_2TX PSD

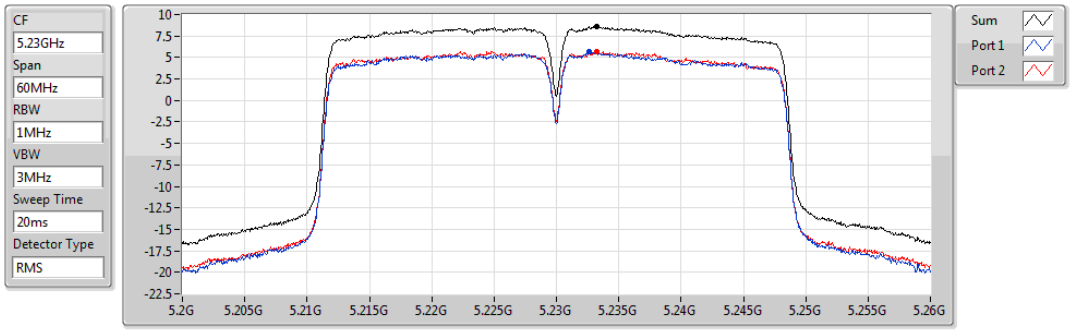
5190MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.09	4.09	0.98	1.23

802.11ac VHT40-BF_Nss1,(MCS0)_2TX PSD

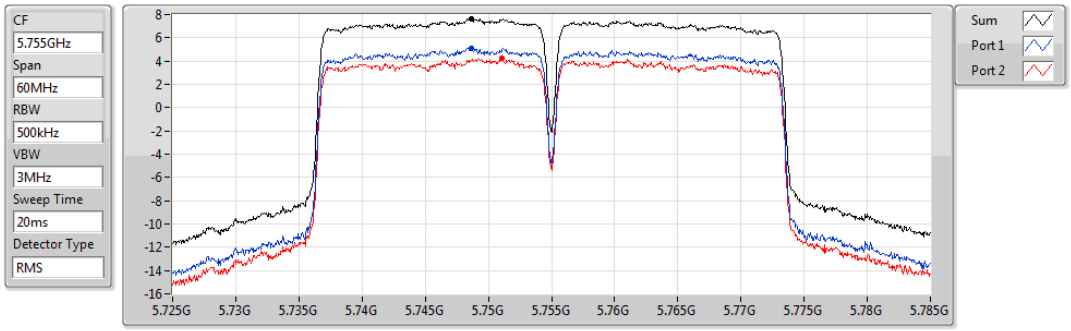
5230MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.60	8.60	5.65	5.72

802.11ac VHT40-BF_Nss1,(MCS0)_2TX PSD

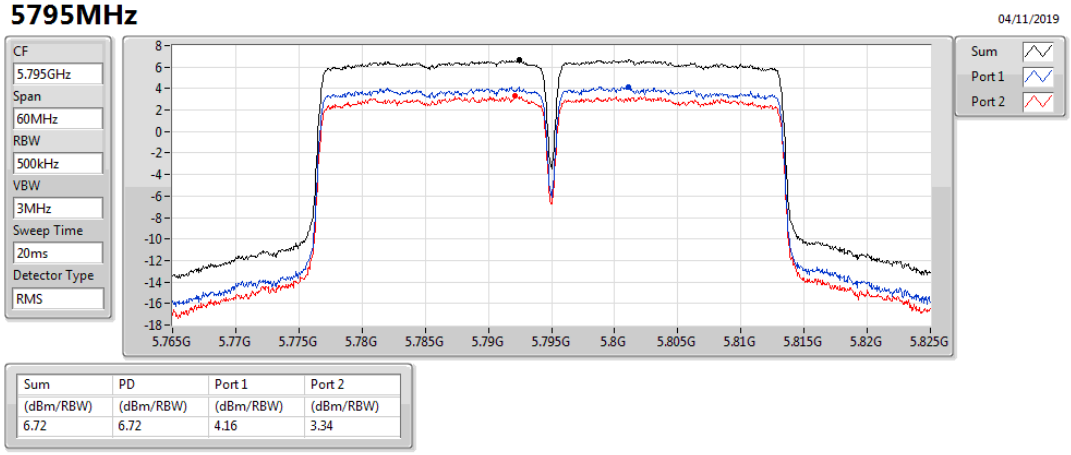
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.65	7.65	5.12	4.25

802.11ac VHT40-BF_Nss1,(MCS0)_2TX PSD

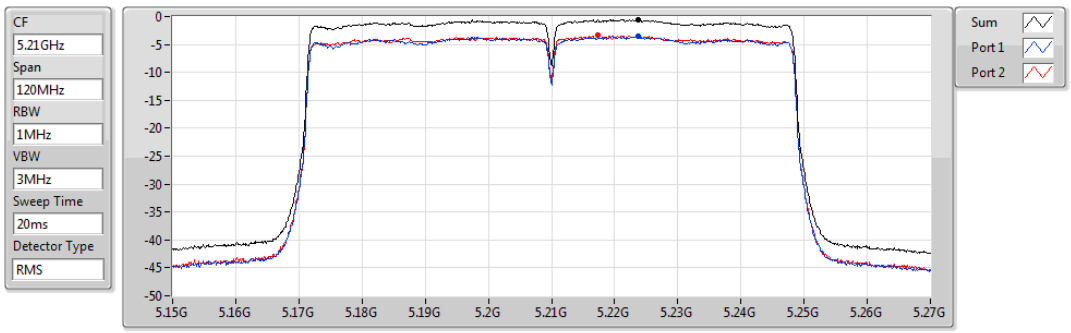
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.72	6.72	4.16	3.34

802.11ac VHT80-BF_Nss1,(MCS0)_2TX PSD

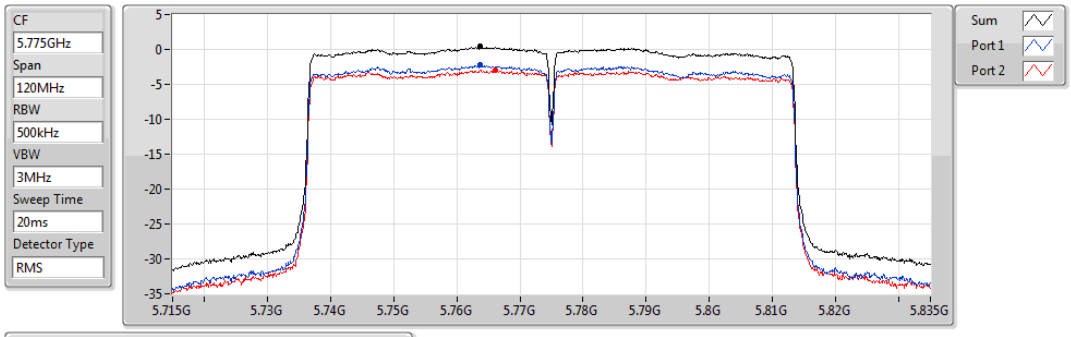
5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.59	-0.59	-3.52	-3.36

802.11ac VHT80-BF_Nss1,(MCS0)_2TX PSD

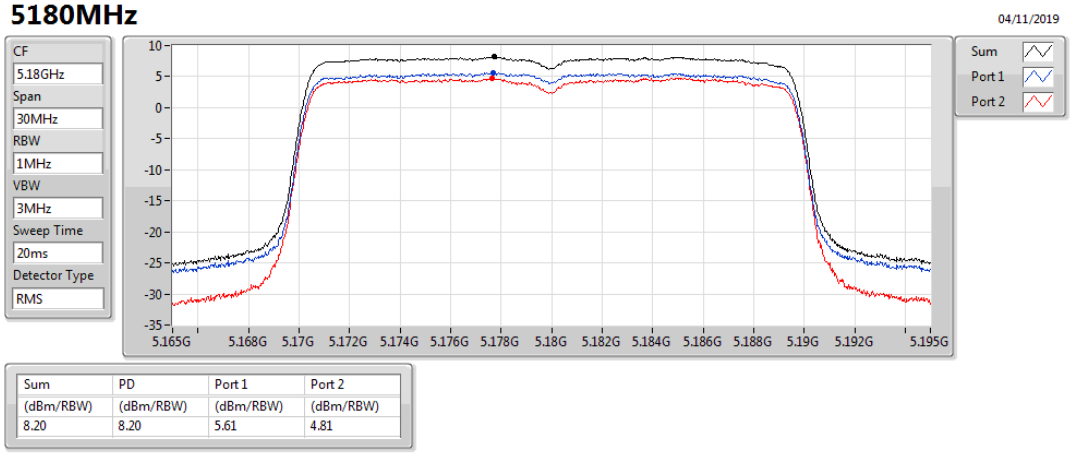
5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.43	0.43	-2.19	-2.92

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

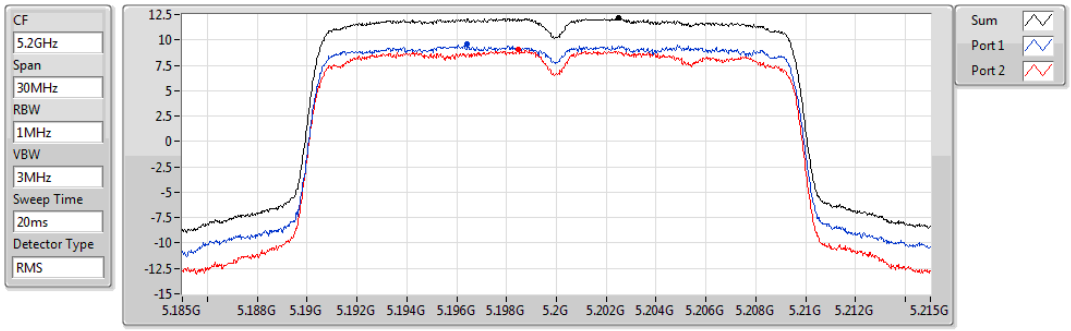
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.20	8.20	5.61	4.81

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

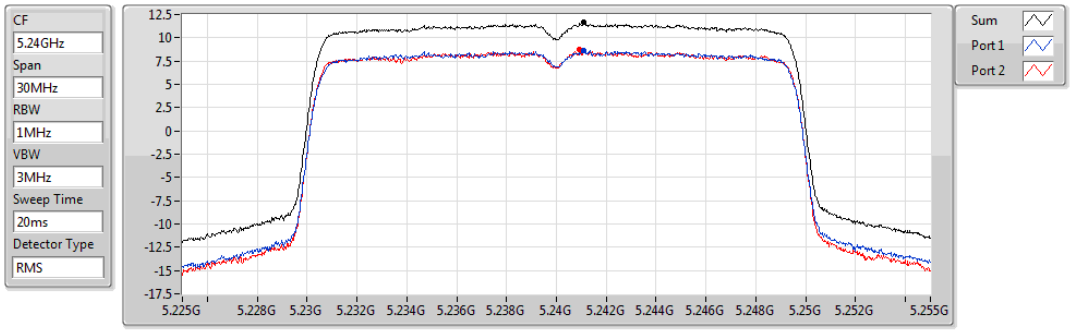
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.13	12.13	9.60	9.04

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

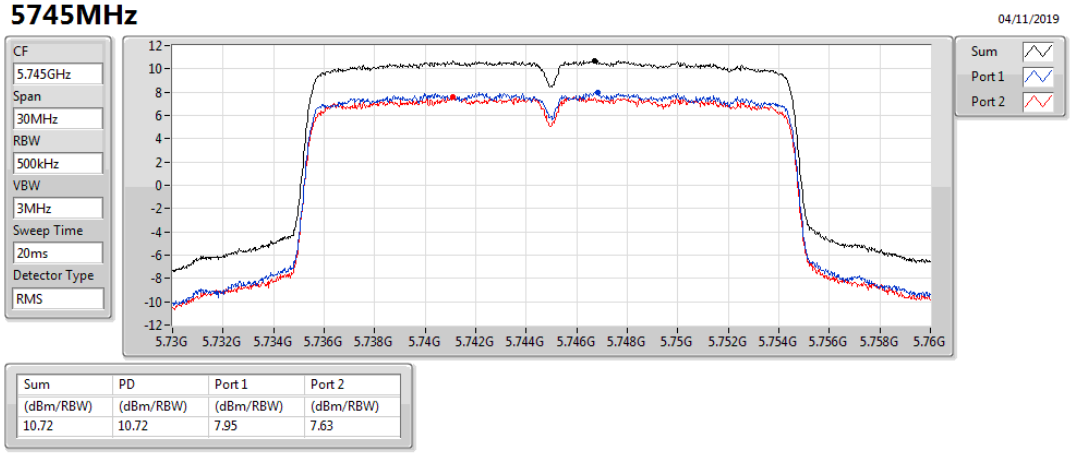
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.63	11.63	8.67	8.71

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

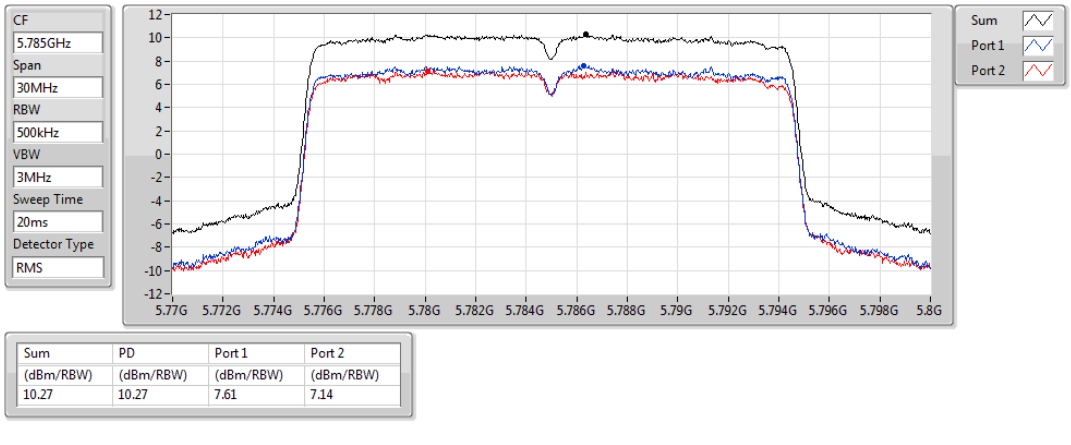
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.72	10.72	7.95	7.63

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

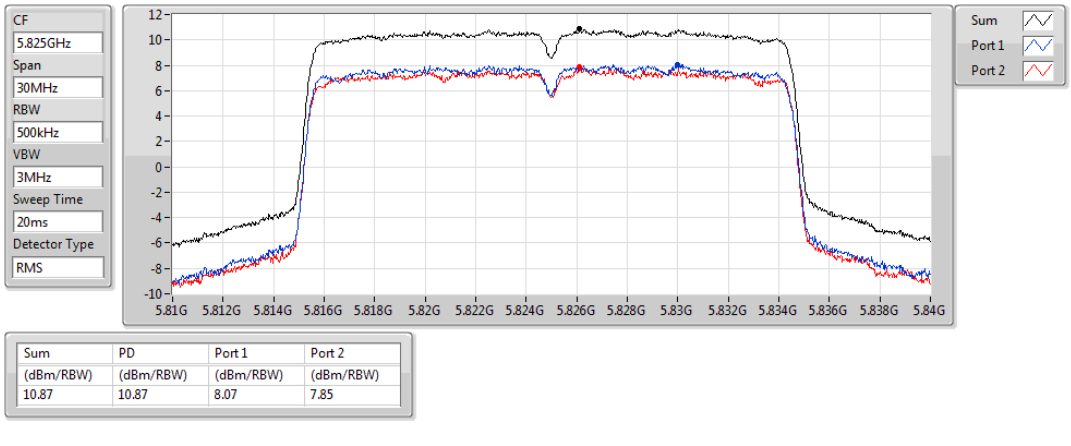
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.27	10.27	7.61	7.14

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

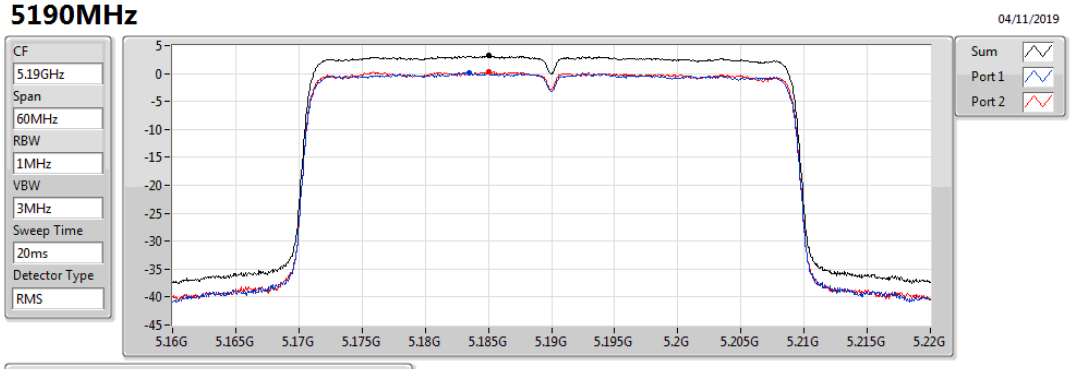
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.87	10.87	8.07	7.85

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

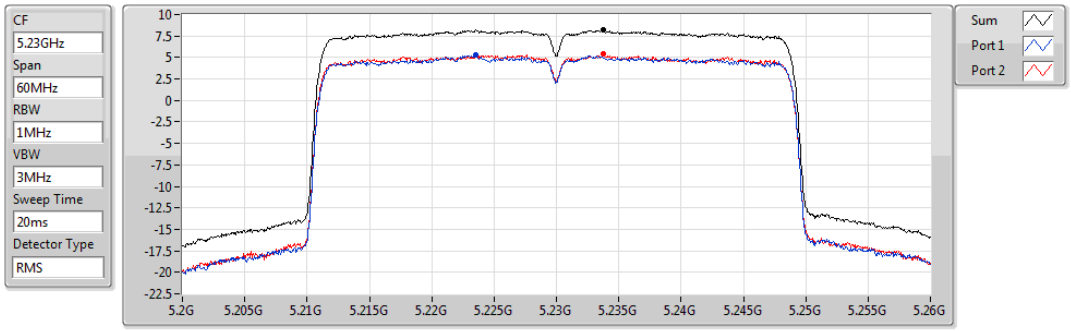
5190MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.16	3.16	0.15	0.30

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

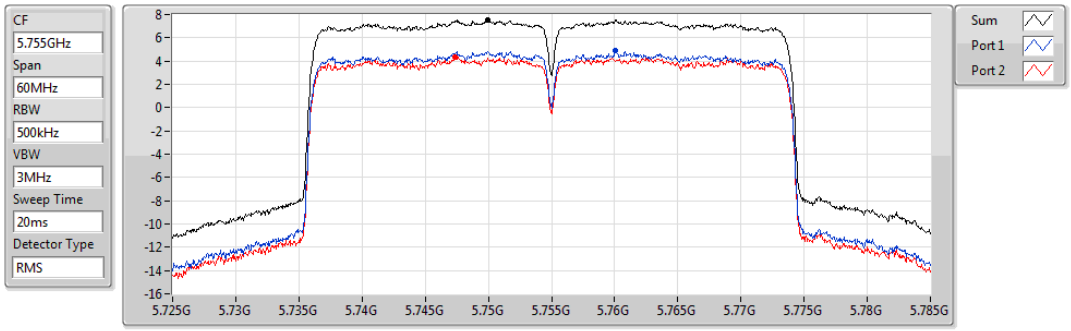
5230MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.18	8.18	5.24	5.45

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

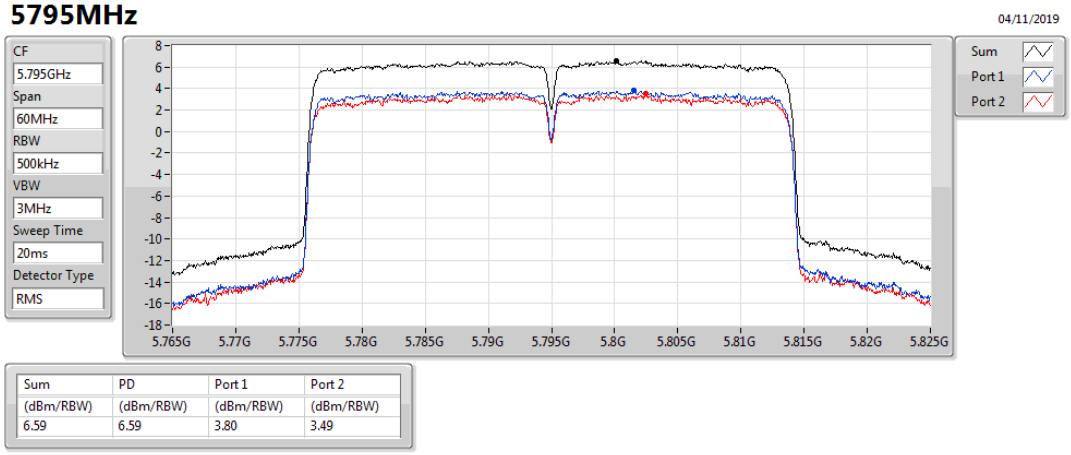
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.52	7.52	4.92	4.34

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

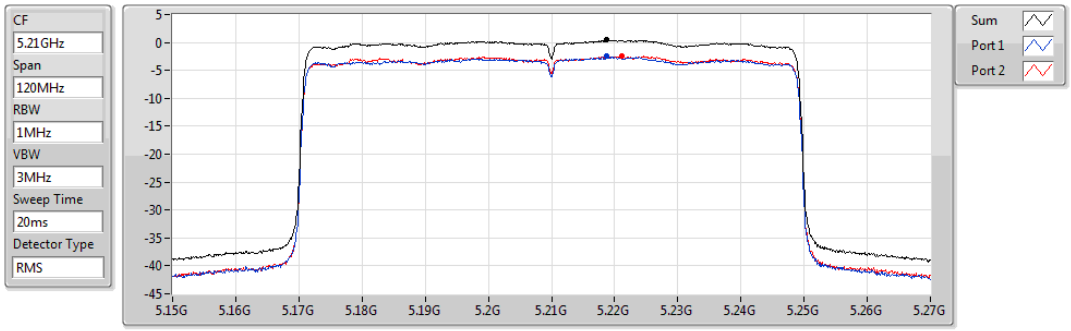
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.59	6.59	3.80	3.49

802.11ax HEW80-BF_Nss1,(MCS0)_2TX PSD

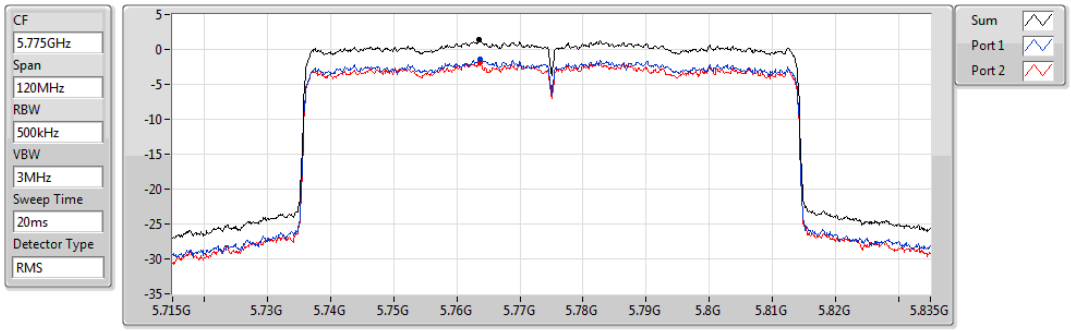
5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.49	0.49	-2.48	-2.39

802.11ax HEW80-BF_Nss1,(MCS0)_2TX PSD

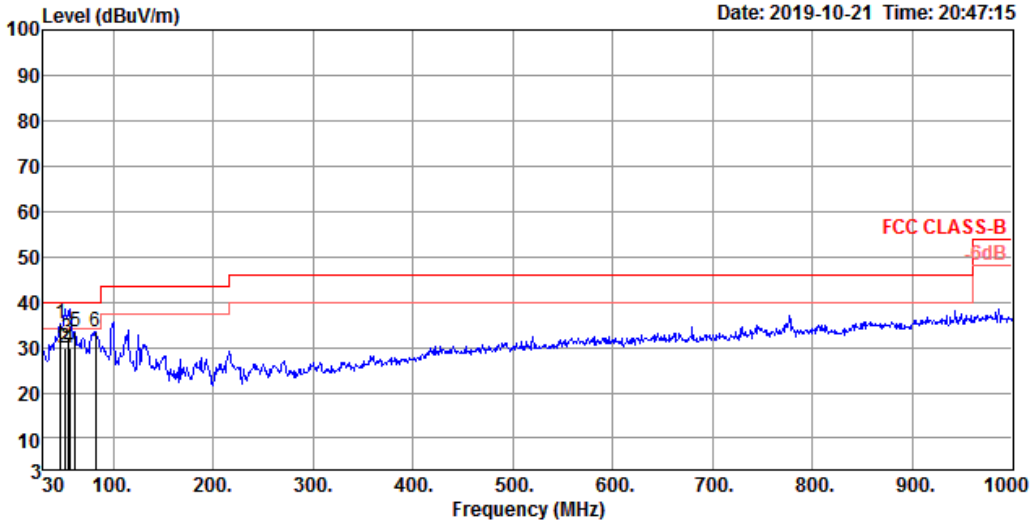
5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.42	1.42	-1.39	-1.80

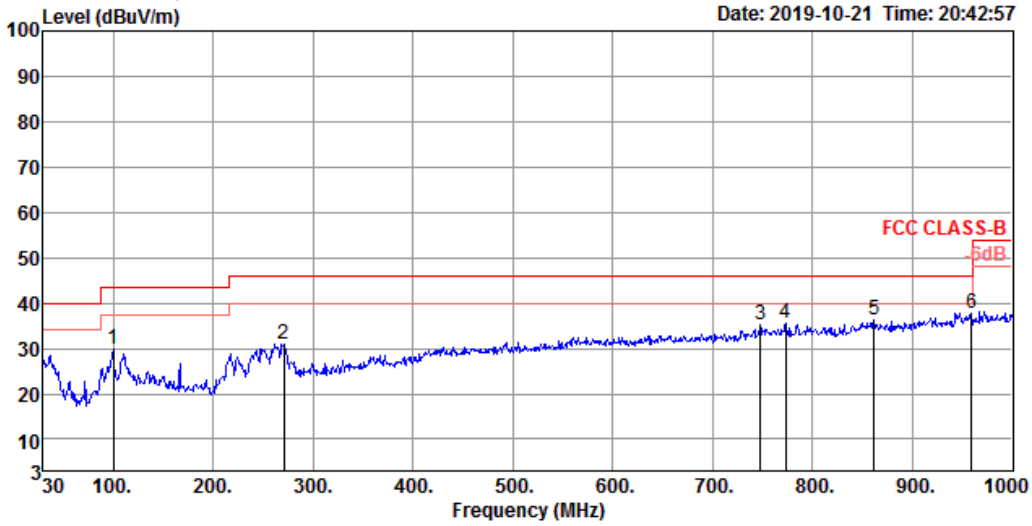
Test Mode	Mode 3	Frequency Range	30 MHz to 1,000 MHz

Vertical 30 MHz to 1,000 MHz



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	47.46	35.16	40.00	-4.84	51.58	1.28	15.01	32.71	100	320	Peak	VERTICAL
2	51.34	29.78	40.00	-10.22	47.61	1.33	13.55	32.71	150	357	QP	VERTICAL
3	54.25	32.04	40.00	-7.96	50.59	1.37	12.73	32.65	300	281	QP	VERTICAL
4	56.19	29.97	40.00	-10.03	48.80	1.39	12.39	32.61	100	45	QP	VERTICAL
5	62.01	33.44	40.00	-6.56	52.42	1.46	12.05	32.49	125	358	Peak	VERTICAL
6	82.38	33.59	40.00	-6.41	51.32	1.69	13.06	32.48	150	111	Peak	VERTICAL

Horizontal 30 MHz to 1,000 MHz



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	99.84	29.89	43.50	-13.61	43.64	1.88	16.73	32.36	300	35	Peak	HORIZONTAL
2	270.56	30.89	46.00	-15.11	41.15	3.19	18.95	32.40	150	189	Peak	HORIZONTAL
3	747.80	35.17	46.00	-10.83	36.44	5.46	25.35	32.08	125	207	Peak	HORIZONTAL
4	773.02	35.53	46.00	-10.47	36.63	5.55	25.54	32.19	200	305	Peak	HORIZONTAL
5	861.29	36.14	46.00	-9.86	35.92	5.88	26.06	31.72	125	101	Peak	HORIZONTAL
6	959.26	37.81	46.00	-8.19	36.24	6.30	26.56	31.29	150	78	Peak	HORIZONTAL

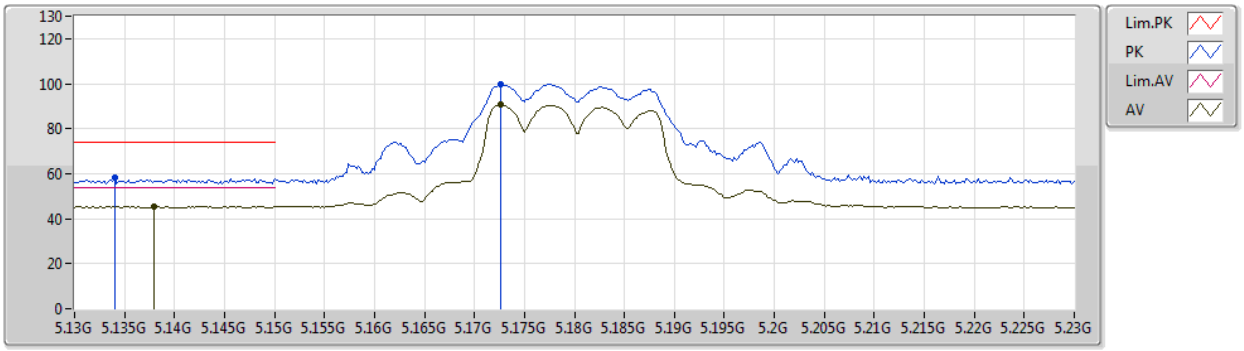
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	Pass	PK	5.926G	68.13	68.20	-0.07	6.15	3	Horizontal	83	1.95	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

16/10/2019



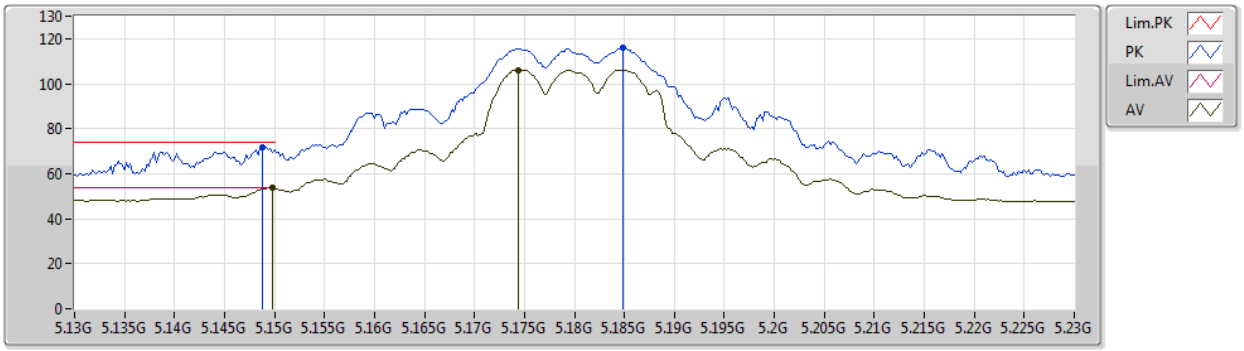
EUT Z,ANT180_2TX
Setting 75
02-G-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.134G	58.25	74.00	-15.75	7.92	3	Vertical	137	2.07	-	50.33
AV	5.138G	45.30	54.00	-8.70	7.92	3	Vertical	137	2.07	-	37.38
PK	5.1726G	99.79	Inf	-Inf	8.00	3	Vertical	137	2.07	-	91.79
AV	5.1726G	90.60	Inf	-Inf	8.00	3	Vertical	137	2.07	-	82.60

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

16/10/2019



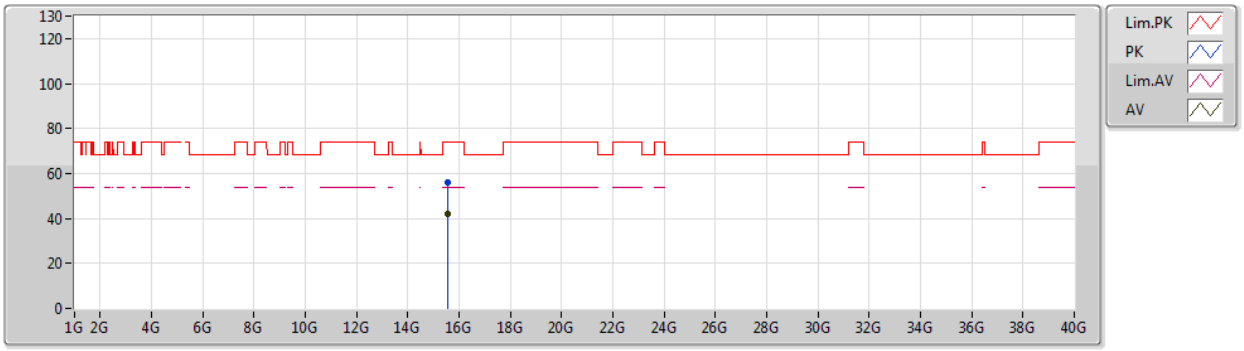
EUT Z,ANT180_2TX
Setting 75
02-G-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1488G	71.76	74.00	-2.24	7.94	3	Horizontal	82	2.19	-	63.82
AV	5.1498G	53.79	54.00	-0.21	7.94	3	Horizontal	82	2.19	-	45.85
PK	5.1848G	115.80	Inf	-Inf	8.03	3	Horizontal	82	2.19	-	107.77
AV	5.1744G	106.05	Inf	-Inf	8.00	3	Horizontal	82	2.19	-	98.05

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

16/10/2019



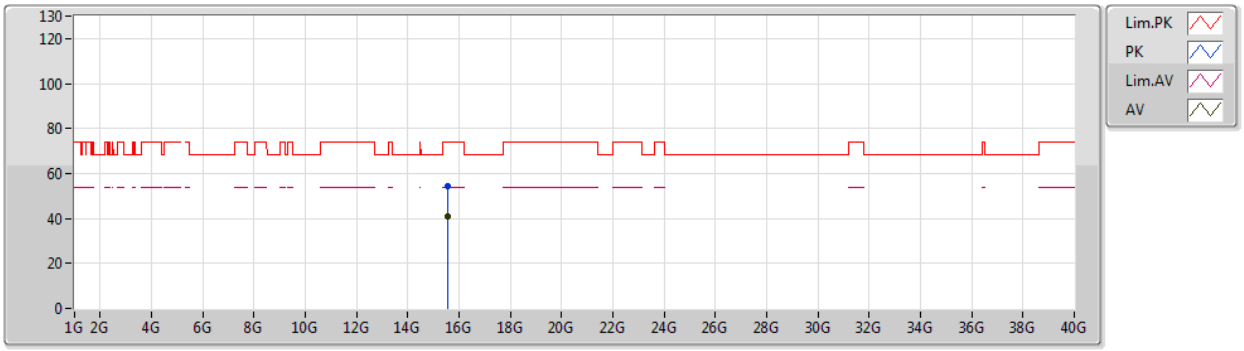
EUT Z,ANT180_2TX
Setting 75
02-G-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	15.54476G	56.30	74.00	-17.70	16.06	3	Vertical	332	1.76	-	40.24
AV	15.53572G	41.91	54.00	-12.09	16.09	3	Vertical	332	1.76	-	25.82

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

16/10/2019



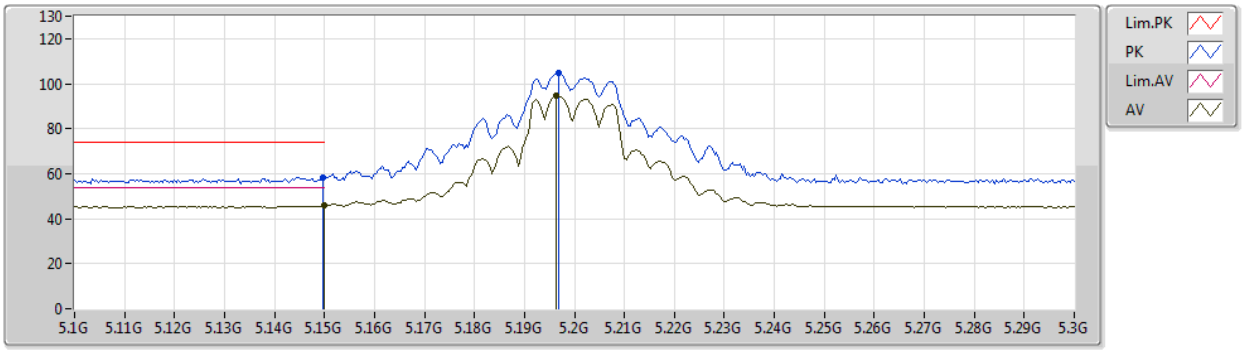
EUT Z,ANT180_2TX
Setting 75
02-G-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	15.5416G	54.50	74.00	-19.50	16.07	3	Horizontal	68	1.93	-	38.43
AV	15.53892G	41.17	54.00	-12.83	16.08	3	Horizontal	68	1.93	-	25.09

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

16/10/2019



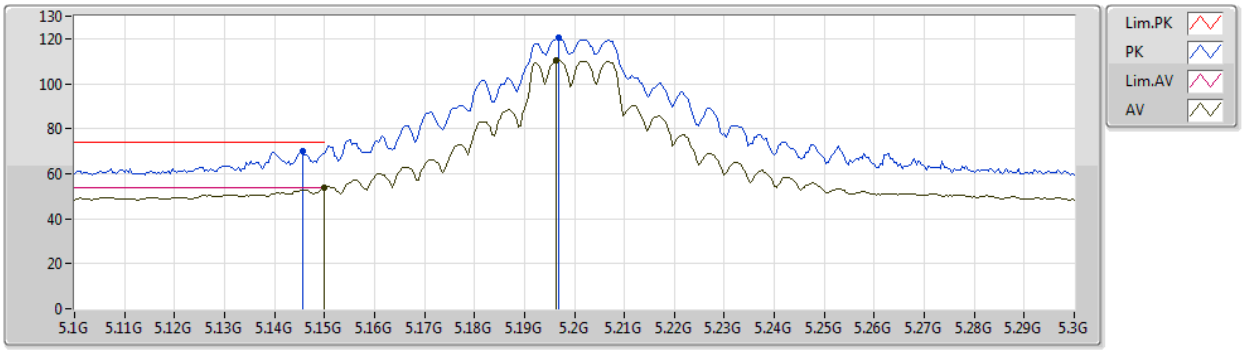
EUT Z,ANT180_2TX
Setting 92
02-G-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1496G	58.11	74.00	-15.89	7.94	3	Vertical	137	2.30	-	50.17
AV	5.15G	45.86	54.00	-8.14	7.94	3	Vertical	137	2.30	-	37.92
PK	5.1968G	104.78	Inf	-Inf	8.06	3	Vertical	137	2.30	-	96.72
AV	5.1964G	94.66	Inf	-Inf	8.06	3	Vertical	137	2.30	-	86.60

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

16/10/2019



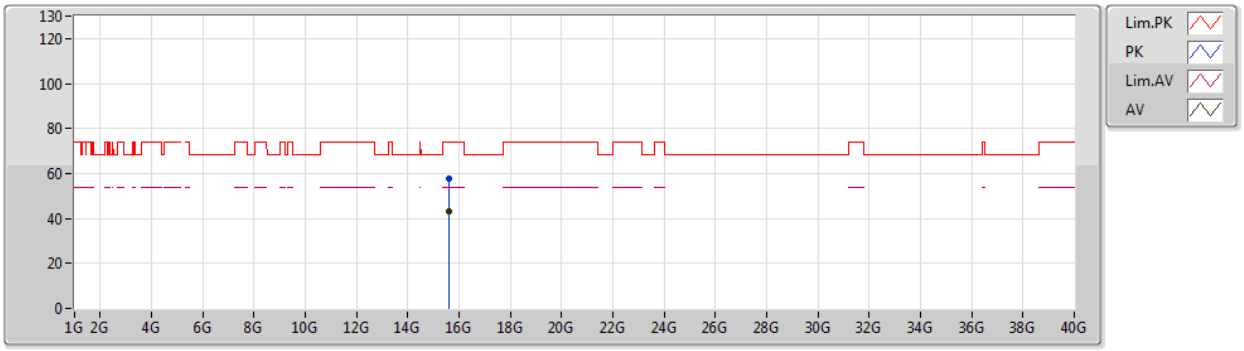
EUT Z,ANT180_2TX
Setting 92
02-G-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1456G	70.17	74.00	-3.83	7.94	3	Horizontal	253	2.68	-	62.23
AV	5.15G	53.88	54.00	-0.12	7.94	3	Horizontal	253	2.68	-	45.94
PK	5.1968G	120.53	Inf	-Inf	8.06	3	Horizontal	253	2.68	-	112.47
AV	5.1964G	110.38	Inf	-Inf	8.06	3	Horizontal	253	2.68	-	102.32

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

16/10/2019



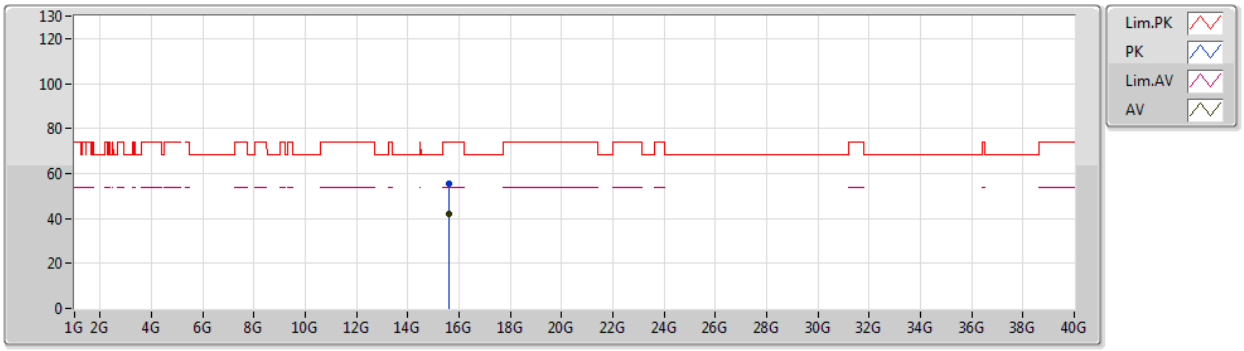
EUT Z,ANT180_2TX
Setting 92
02-G-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	15.60072G	57.65	74.00	-16.35	15.91	3	Vertical	245	1.97	-	41.74
AV	15.60032G	43.23	54.00	-10.77	15.91	3	Vertical	245	1.97	-	27.32

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

16/10/2019



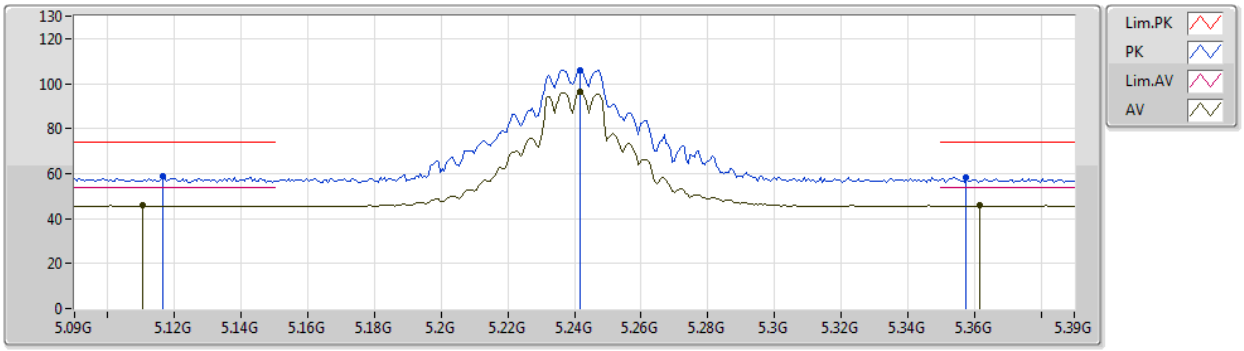
EUT Z,ANT180_2TX
Setting 92
02-G-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	15.60036G	55.22	74.00	-18.78	15.91	3	Horizontal	149	2.60	-	39.31
AV	15.6G	41.75	54.00	-12.25	15.91	3	Horizontal	149	2.60	-	25.84

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

16/10/2019



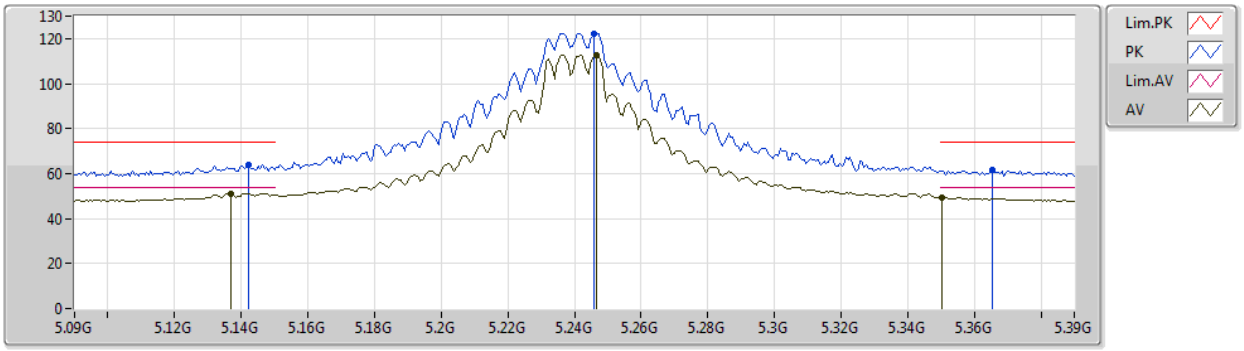
EUT Z,ANT180_2TX
Setting 95
02-G-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1164G	58.68	74.00	-15.32	7.87	3	Vertical	148	2.25	-	50.81
AV	5.1104G	45.74	54.00	-8.26	7.86	3	Vertical	148	2.25	-	37.88
PK	5.2418G	105.78	Inf	-Inf	8.12	3	Vertical	148	2.25	-	97.66
AV	5.2418G	96.23	Inf	-Inf	8.12	3	Vertical	148	2.25	-	88.11
PK	5.3576G	58.29	74.00	-15.71	8.28	3	Vertical	148	2.25	-	50.01
AV	5.3618G	45.70	54.00	-8.30	8.29	3	Vertical	148	2.25	-	37.41

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

16/10/2019



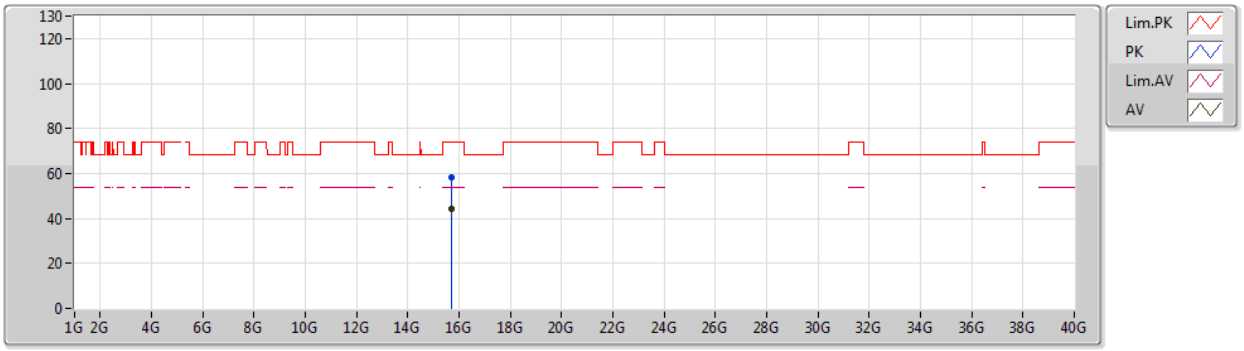
EUT Z,ANT180_2TX
Setting 95
02-G-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1422G	64.12	74.00	-9.88	7.94	3	Horizontal	257	2.30	-	56.18
AV	5.1368G	51.23	54.00	-2.77	7.92	3	Horizontal	257	2.30	-	43.31
PK	5.246G	122.43	Inf	-Inf	8.13	3	Horizontal	257	2.30	-	114.30
AV	5.2466G	112.63	Inf	-Inf	8.13	3	Horizontal	257	2.30	-	104.50
PK	5.3654G	61.91	74.00	-12.09	8.29	3	Horizontal	257	2.30	-	53.62
AV	5.3504G	49.42	54.00	-4.58	8.28	3	Horizontal	257	2.30	-	41.14

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

16/10/2019



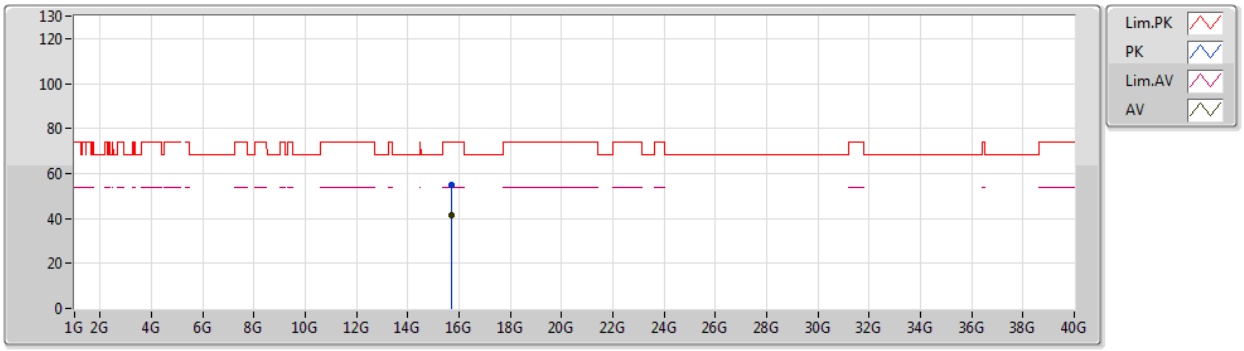
EUT Z,ANT180_2TX
Setting 95
02-G-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	15.71112G	58.42	74.00	-15.58	15.62	3	Vertical	128	1.73	-	42.80
AV	15.71548G	44.02	54.00	-9.98	15.62	3	Vertical	128	1.73	-	28.40

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

16/10/2019



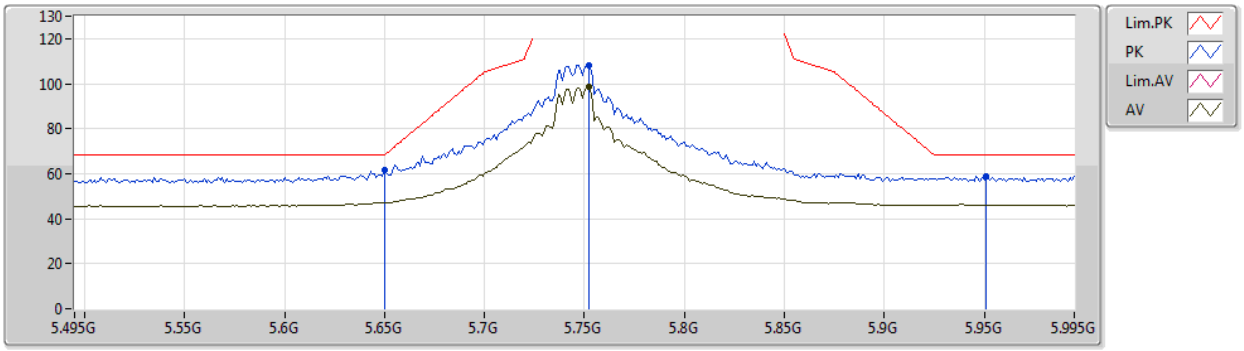
EUT Z,ANT180_2TX
Setting 95
02-G-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	15.71664G	54.75	74.00	-19.25	15.61	3	Horizontal	335	2.61	-	39.14
AV	15.71648G	41.41	54.00	-12.59	15.61	3	Horizontal	335	2.61	-	25.80

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

16/10/2019



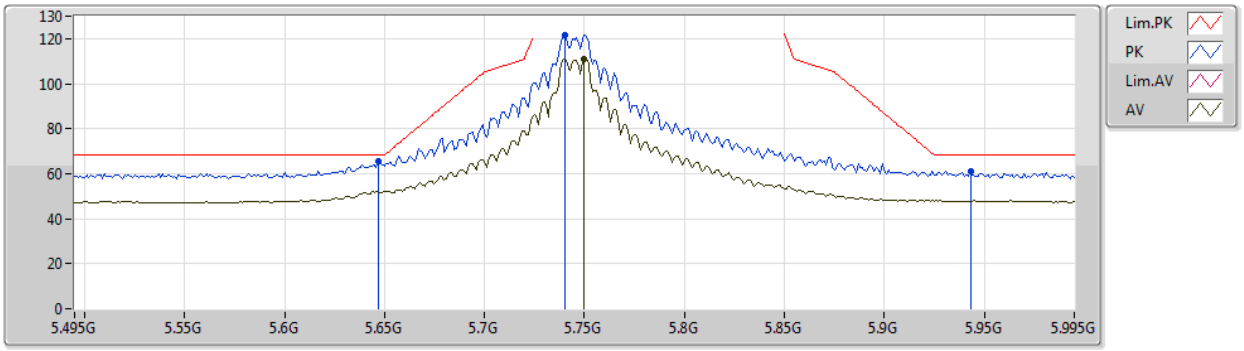
EUT Z,ANT180_2TX
Setting 86
02-G-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.65G	61.68	68.20	-6.52	8.66	3	Vertical	84	1.00	-	53.02
PK	5.752G	108.42	Inf	-Inf	8.83	3	Vertical	84	1.00	-	99.59
AV	5.752G	98.53	Inf	-Inf	8.83	3	Vertical	84	1.00	-	89.70
PK	5.951G	58.75	68.20	-9.45	8.92	3	Vertical	84	1.00	-	49.83

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

16/10/2019



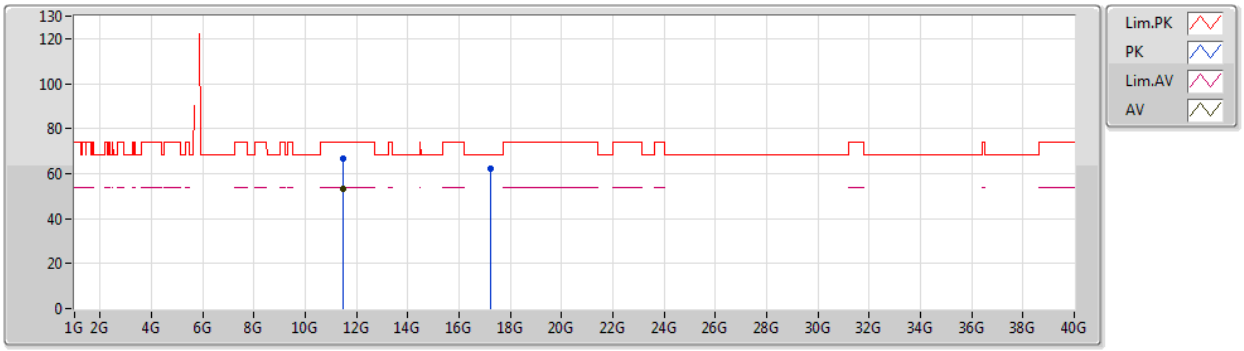
EUT Z,ANT180_2TX
Setting 86
02-G-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.647G	65.62	68.20	-2.58	8.67	3	Horizontal	71	2.12	-	56.95
PK	5.74G	121.52	Inf	-Inf	8.80	3	Horizontal	71	2.12	-	112.72
AV	5.75G	111.18	Inf	-Inf	8.83	3	Horizontal	71	2.12	-	102.35
PK	5.943G	61.33	68.20	-6.87	8.94	3	Horizontal	71	2.12	-	52.39

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

16/10/2019



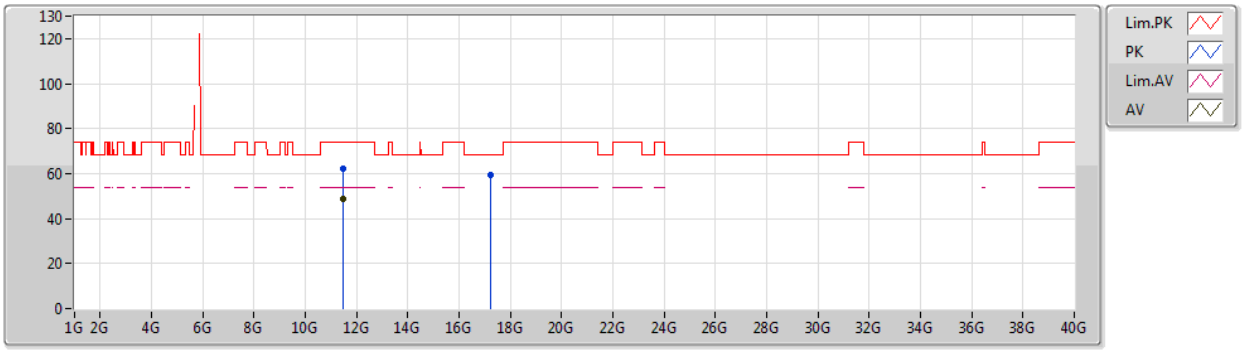
EUT Z,ANT180_2TX
Setting 86
02-G-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.48788G	66.80	74.00	-7.20	14.89	3	Vertical	232	1.75	-	51.91
AV	11.48856G	53.21	54.00	-0.79	14.89	3	Vertical	232	1.75	-	38.32
PK	17.22648G	62.26	68.20	-5.94	20.66	3	Vertical	162	1.60	-	41.60

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

16/10/2019



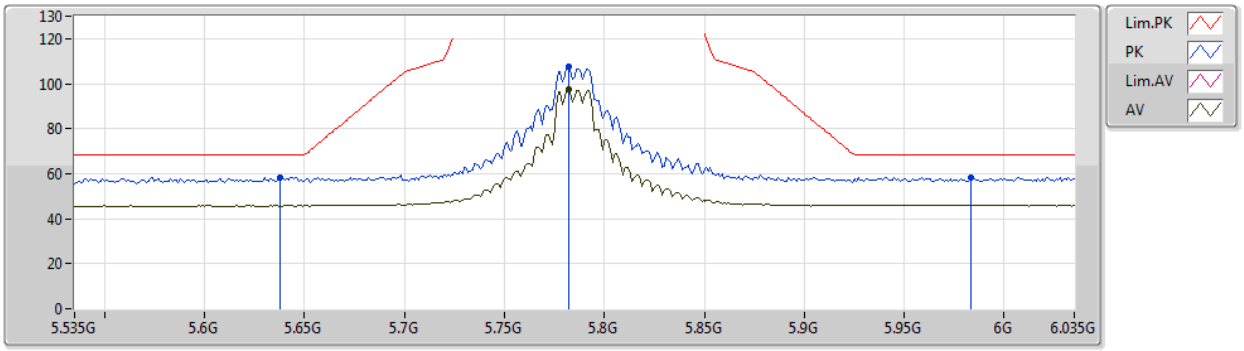
EUT Z,ANT180_2TX
Setting 86
02-G-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.48784G	62.42	74.00	-11.58	14.89	3	Horizontal	232	2.76	-	47.53
AV	11.49312G	48.71	54.00	-5.29	14.89	3	Horizontal	232	2.76	-	33.82
PK	17.22716G	59.51	68.20	-8.69	20.66	3	Horizontal	75	2.61	-	38.85

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

16/10/2019



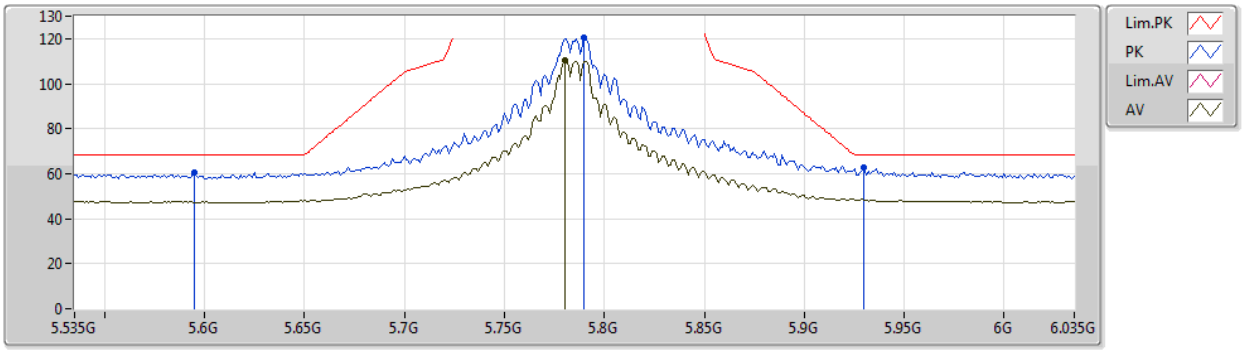
EUT Z,ANT180_2TX
Setting 85
02-G-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.638G	58.45	68.20	-9.75	8.64	3	Vertical	84	1.01	-	49.81
PK	5.782G	107.59	Inf	-Inf	8.88	3	Vertical	84	1.01	-	98.71
AV	5.782G	97.63	Inf	-Inf	8.88	3	Vertical	84	1.01	-	88.75
PK	5.983G	58.47	68.20	-9.73	8.94	3	Vertical	84	1.01	-	49.53

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

16/10/2019



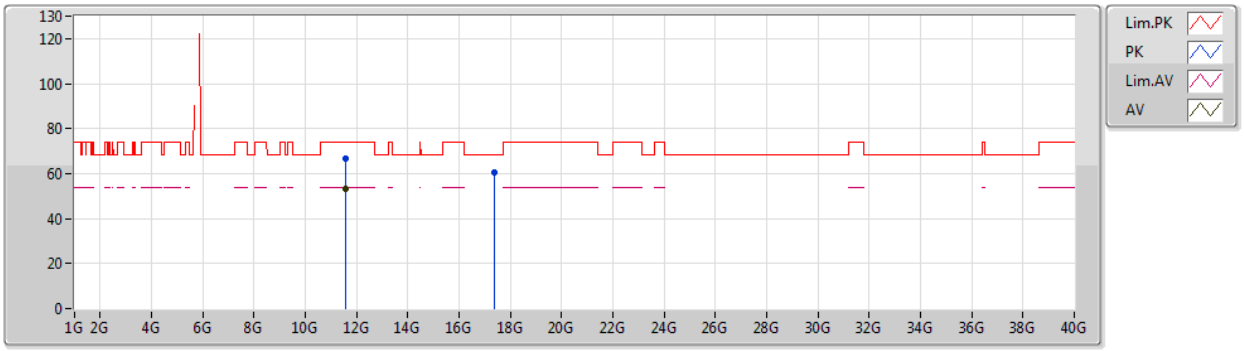
EUT Z,ANT180_2TX
Setting 85
02-G-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.595G	60.39	68.20	-7.81	8.58	3	Horizontal	33	2.18	-	51.81
PK	5.79G	120.20	Inf	-Inf	8.88	3	Horizontal	33	2.18	-	111.32
AV	5.78G	110.38	Inf	-Inf	8.87	3	Horizontal	33	2.18	-	101.51
PK	5.93G	62.56	68.20	-5.64	8.93	3	Horizontal	33	2.18	-	53.63

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

16/10/2019



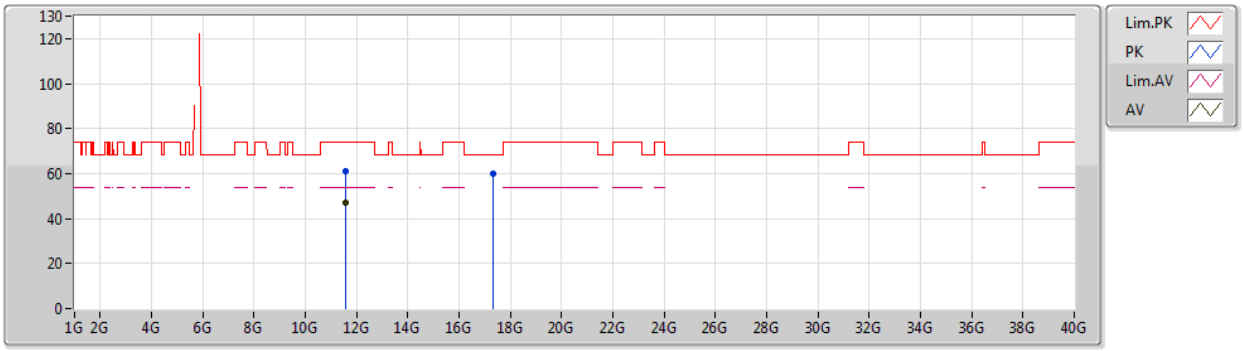
EUT Z,ANT180_2TX
Setting 85
02-G-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.56928G	66.57	74.00	-7.43	15.00	3	Vertical	188	2.16	-	51.57
AV	11.56912G	53.12	54.00	-0.88	15.00	3	Vertical	188	2.16	-	38.12
PK	17.3626G	60.44	68.20	-7.76	21.46	3	Vertical	106	1.96	-	38.98

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

16/10/2019



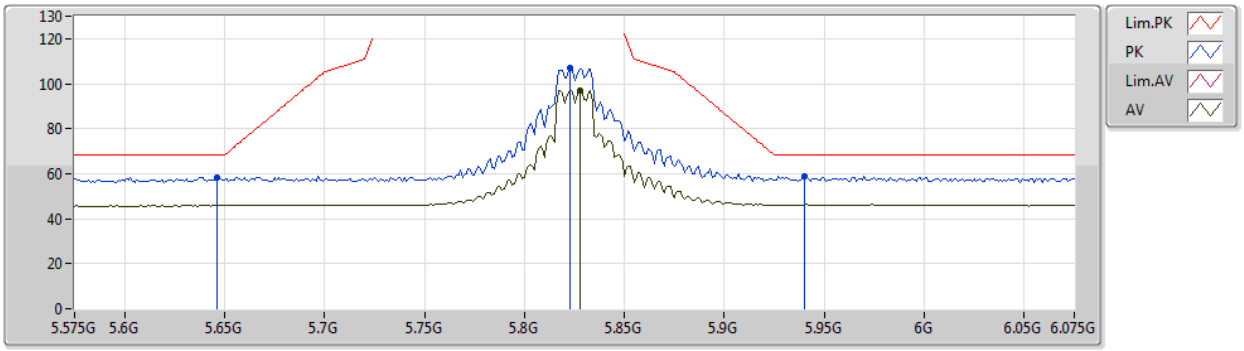
EUT Z,ANT180_2TX
Setting 85
02-G-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.5694G	60.98	74.00	-13.02	15.00	3	Horizontal	124	2.63	-	45.98
AV	11.5692G	47.08	54.00	-6.92	15.00	3	Horizontal	124	2.63	-	32.08
PK	17.34736G	60.09	68.20	-8.11	21.38	3	Horizontal	35	1.29	-	38.71

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

16/10/2019



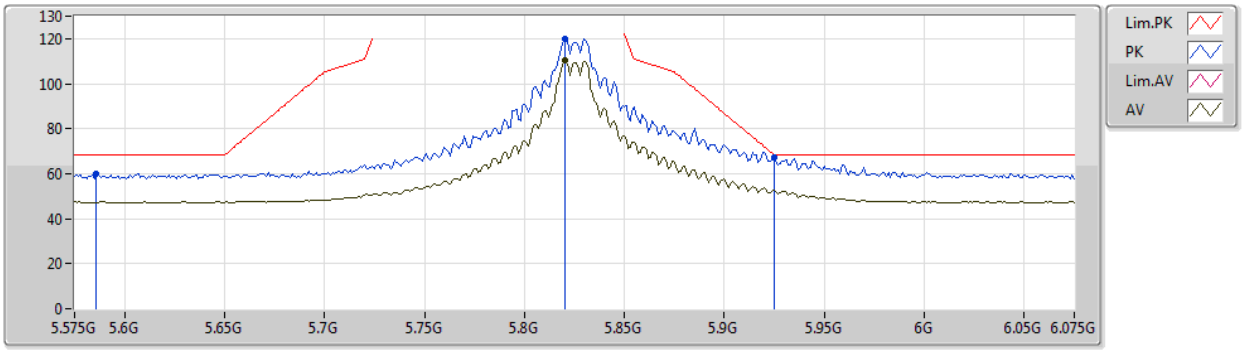
EUT Z,ANT180_2TX
Setting 85
02-G-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.646G	58.10	68.20	-10.10	8.66	3	Vertical	177	2.91	-	49.44
PK	5.823G	106.79	Inf	-Inf	8.90	3	Vertical	177	2.91	-	97.89
AV	5.828G	96.93	Inf	-Inf	8.91	3	Vertical	177	2.91	-	88.02
PK	5.94G	59.11	68.20	-9.09	8.93	3	Vertical	177	2.91	-	50.18

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

16/10/2019



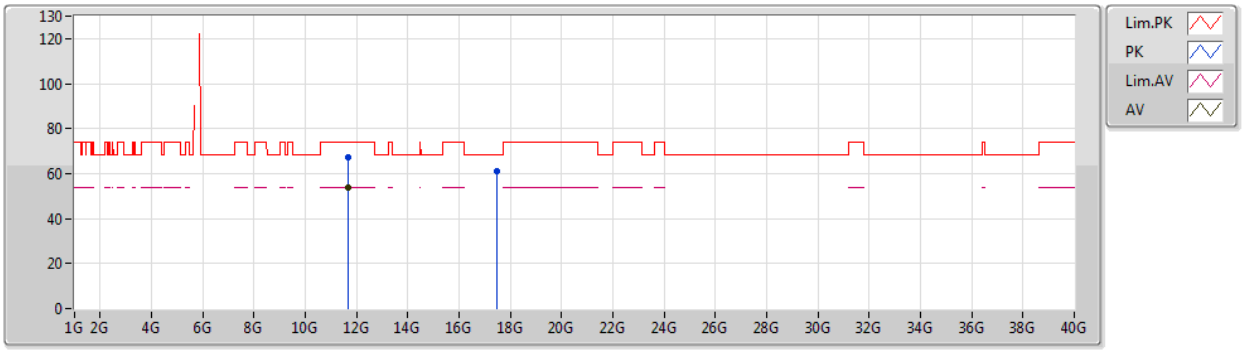
EUT Z,ANT180_2TX
Setting 85
02-G-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.586G	59.93	68.20	-8.27	8.57	3	Horizontal	73	2.23	-	51.36
PK	5.82G	120.08	Inf	-Inf	8.90	3	Horizontal	73	2.23	-	111.18
AV	5.82G	110.14	Inf	-Inf	8.90	3	Horizontal	73	2.23	-	101.24
PK	5.925G	67.37	68.20	-0.83	8.93	3	Horizontal	73	2.23	-	58.44

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

16/10/2019



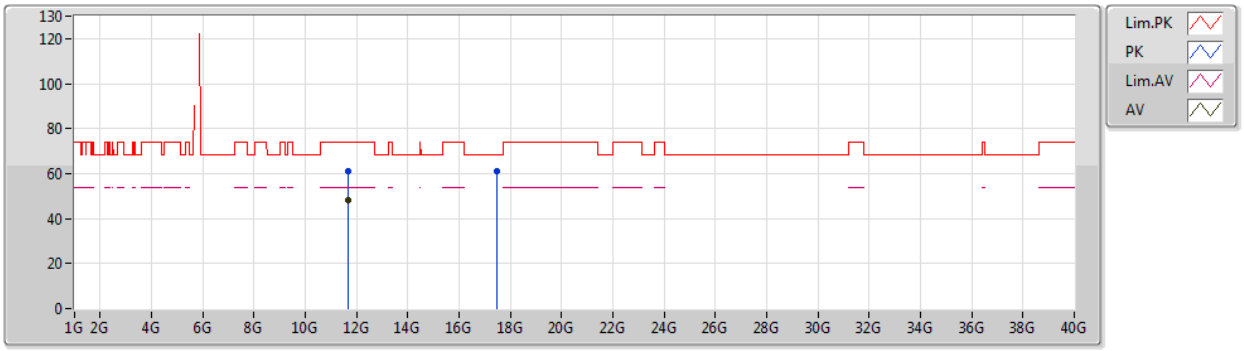
EUT Z,ANT180_2TX
Setting 85
02-G-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.64804G	67.04	74.00	-6.96	15.09	3	Vertical	146	1.31	-	51.95
AV	11.6484G	53.76	54.00	-0.24	15.09	3	Vertical	146	1.31	-	38.67
PK	17.47204G	61.18	68.20	-7.02	22.11	3	Vertical	234	2.06	-	39.07

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

16/10/2019



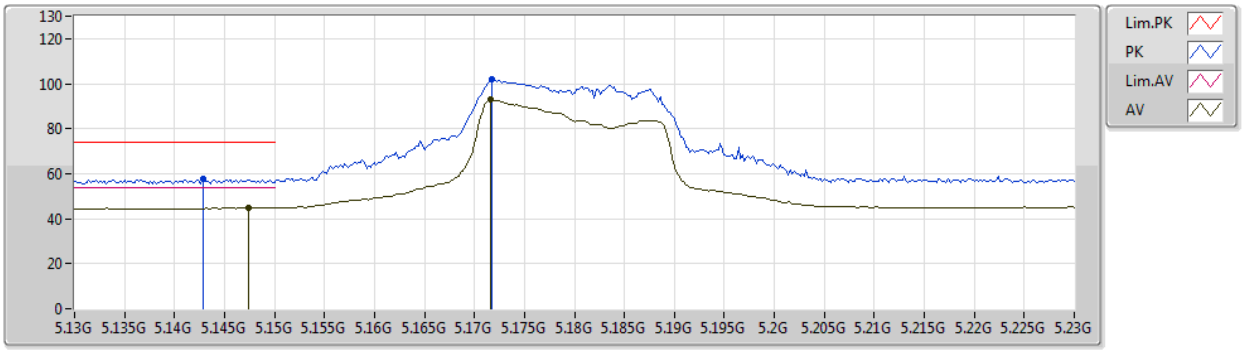
EUT Z,ANT180_2TX
Setting 85
02-G-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.64944G	61.25	74.00	-12.75	15.09	3	Horizontal	210	1.41	-	46.16
AV	11.64856G	48.06	54.00	-5.94	15.09	3	Horizontal	210	1.41	-	32.97
PK	17.48476G	61.15	68.20	-7.05	22.19	3	Horizontal	101	2.15	-	38.96

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

04/11/2019



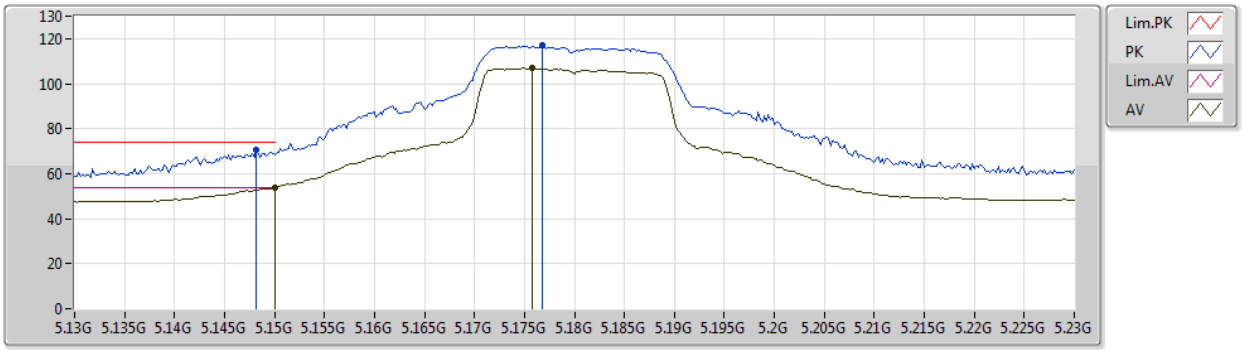
EUT Z_2TX_ANT 180
Setting 71
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1428G	57.64	74.00	-16.36	5.48	3	Vertical	16	2.69	-	52.16
AV	5.1474G	44.92	54.00	-9.08	5.50	3	Vertical	16	2.69	-	39.42
PK	5.1718G	101.73	Inf	-Inf	5.56	3	Vertical	16	2.69	-	96.17
AV	5.1716G	92.76	Inf	-Inf	5.56	3	Vertical	16	2.69	-	87.20

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5180MHz_TX



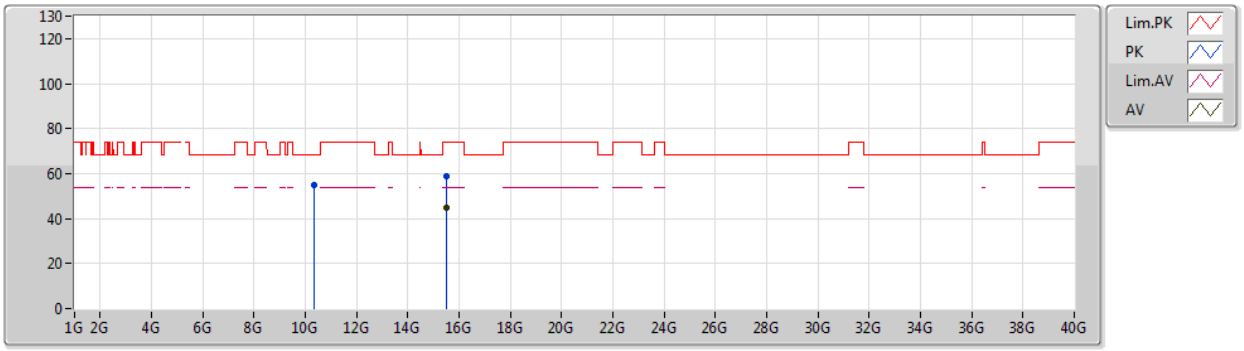
EUT Z_2TX_ANT 180
Setting 71
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1482G	70.75	74.00	-3.25	5.50	3	Horizontal	275	2.11	-	65.25
AV	5.15G	53.78	54.00	-0.22	5.50	3	Horizontal	275	2.11	-	48.28
PK	5.1768G	116.95	Inf	-Inf	5.58	3	Horizontal	275	2.11	-	111.37
AV	5.1758G	106.81	Inf	-Inf	5.57	3	Horizontal	275	2.11	-	101.24

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

04/11/2019



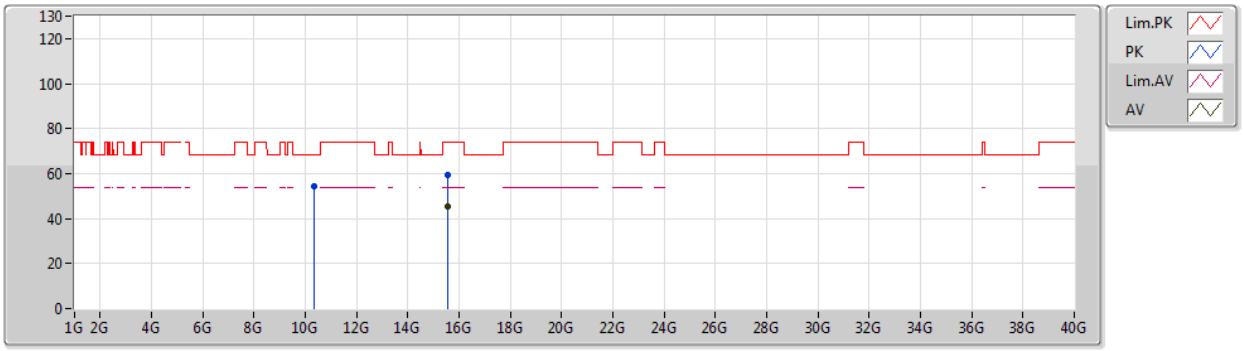
EUT Z_2TX_ANT 180
Setting 71
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.33636G	54.77	68.20	-13.43	12.17	3	Vertical	231	2.00	-	42.60
PK	15.505G	58.77	74.00	-15.23	14.54	3	Vertical	145	1.57	-	44.23
AV	15.5274G	44.93	54.00	-9.07	14.45	3	Vertical	145	1.57	-	30.48

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

04/11/2019



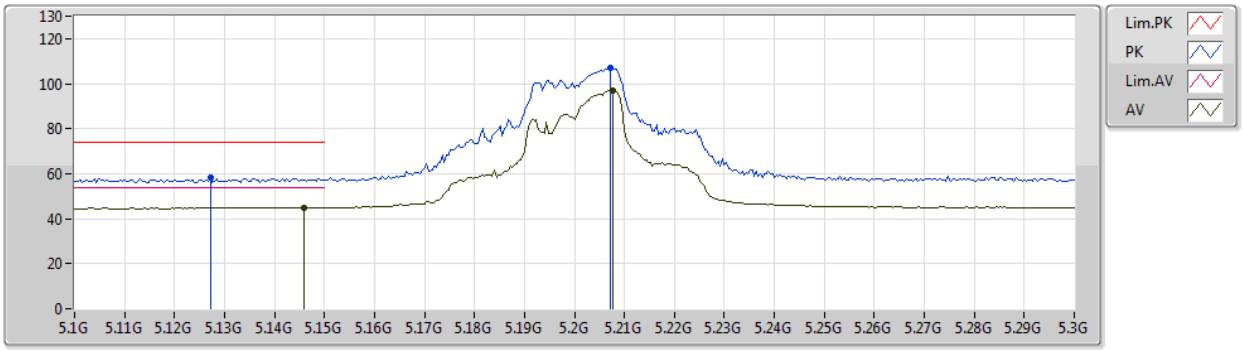
EUT Z_2TX_ANT 180
Setting 71
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.33732G	54.27	68.20	-13.93	12.17	3	Horizontal	118	2.79	-	42.10
PK	15.5384G	59.48	74.00	-14.52	14.40	3	Horizontal	279	2.94	-	45.08
AV	15.54054G	45.53	54.00	-8.47	14.40	3	Horizontal	279	2.94	-	31.13

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

04/11/2019



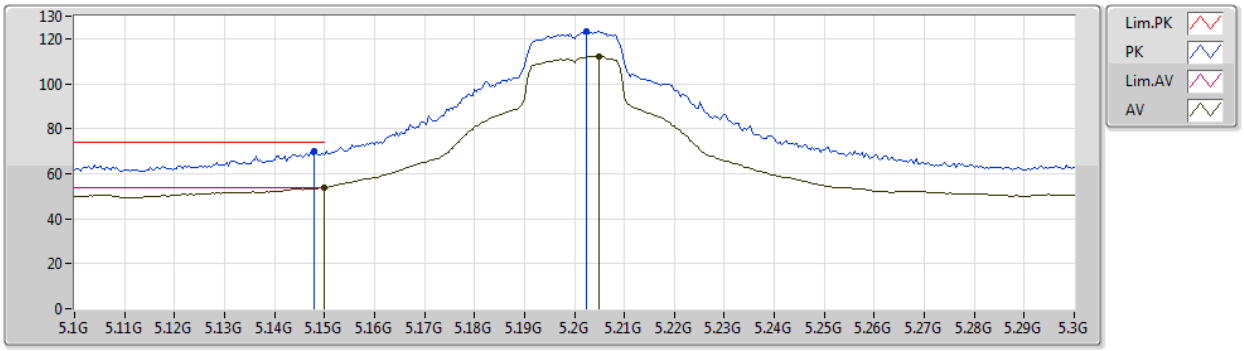
EUT Z_2TX_ANT 180
Setting 168
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1272G	58.17	74.00	-15.83	5.44	3	Vertical	27	1.50	-	52.73
AV	5.146G	44.97	54.00	-9.03	5.50	3	Vertical	27	1.50	-	39.47
PK	5.2072G	106.95	Inf	-Inf	5.65	3	Vertical	27	1.50	-	101.30
AV	5.2076G	96.86	Inf	-Inf	5.66	3	Vertical	27	1.50	-	91.20

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

04/11/2019



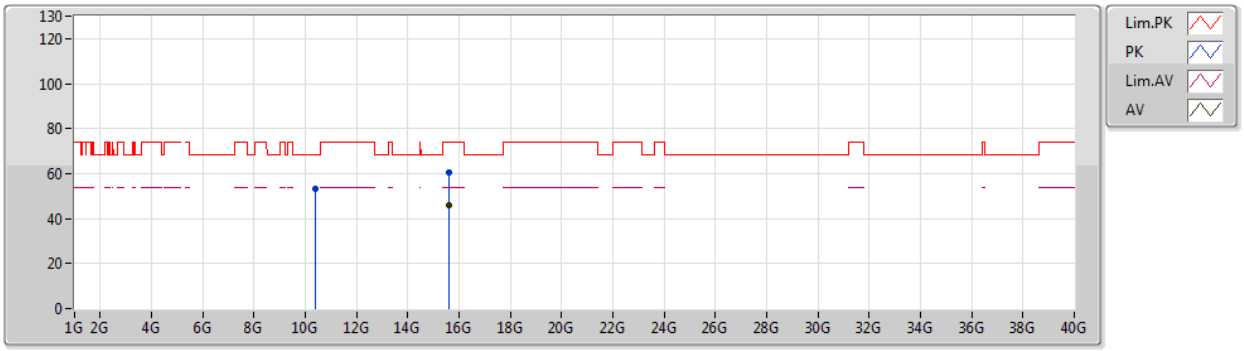
EUT Z_2TX_ANT 180
Setting 168
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.148G	69.93	74.00	-4.07	5.50	3	Horizontal	267	2.32	-	64.43
AV	5.15G	53.88	54.00	-0.12	5.50	3	Horizontal	267	2.32	-	48.38
PK	5.2024G	123.42	Inf	-Inf	5.64	3	Horizontal	267	2.32	-	117.78
AV	5.2048G	112.19	Inf	-Inf	5.65	3	Horizontal	267	2.32	-	106.54

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

04/11/2019



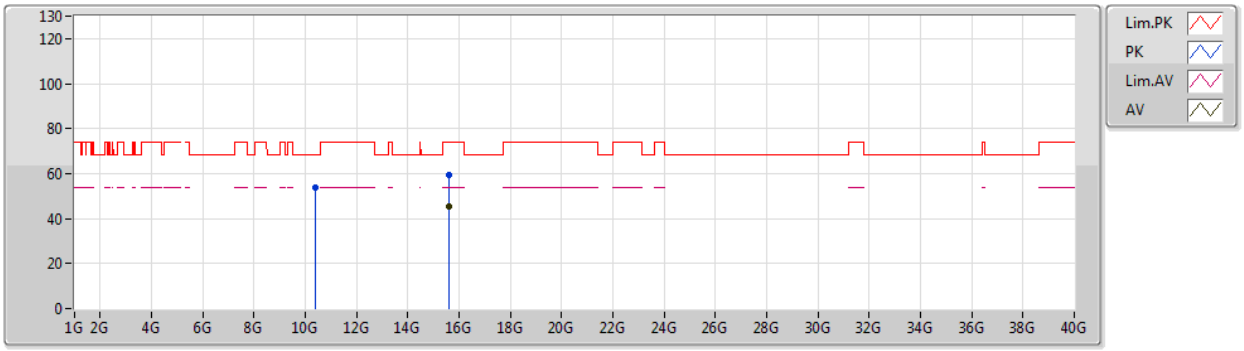
EUT Z_2TX_ANT 180
Setting 168
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.37036G	53.12	68.20	-15.08	12.19	3	Vertical	285	1.77	-	40.93
PK	15.59844G	60.77	74.00	-13.23	14.18	3	Vertical	5	2.71	-	46.59
AV	15.59778G	45.72	54.00	-8.28	14.19	3	Vertical	5	2.71	-	31.53

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

04/11/2019



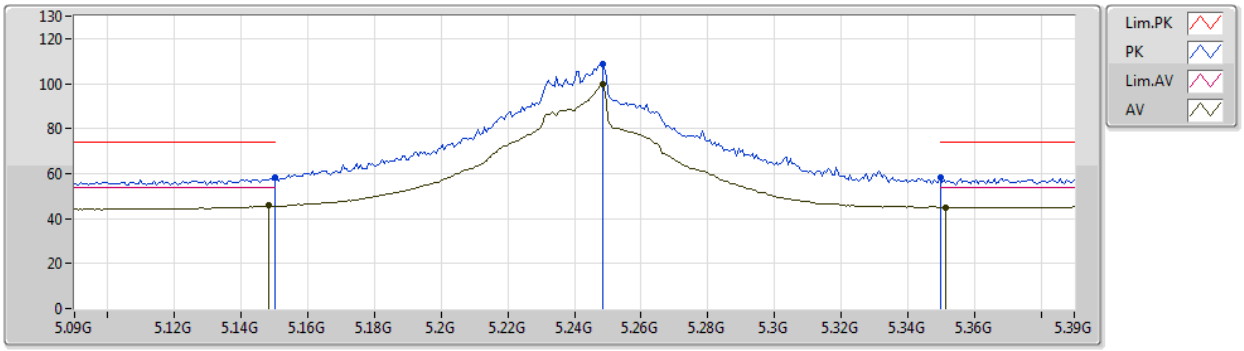
EUT Z_2TX_ANT 180
Setting 168
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.3802G	53.56	68.20	-14.64	12.21	3	Horizontal	336	1.34	-	41.35
PK	15.58986G	59.54	74.00	-14.46	14.22	3	Horizontal	70	1.39	-	45.32
AV	15.59304G	45.62	54.00	-8.38	14.21	3	Horizontal	70	1.39	-	31.41

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

01/11/2019



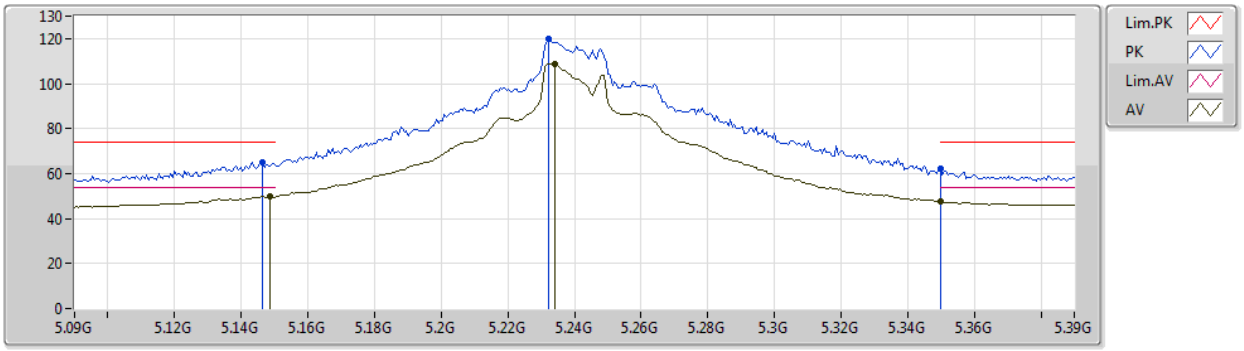
EUT Z_2TX_ANT 180
Setting 224
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.15G	58.55	74.00	-15.45	5.50	3	Vertical	170	2.97	-	53.05
AV	5.1482G	45.73	54.00	-8.27	5.50	3	Vertical	170	2.97	-	40.23
AV	5.2484G	99.62	Inf	-Inf	5.72	3	Vertical	170	2.97	-	93.90
PK	5.2484G	108.46	Inf	-Inf	5.72	3	Vertical	170	2.97	-	102.74
AV	5.3516G	45.05	54.00	-8.95	5.81	3	Vertical	170	2.97	-	39.24
PK	5.35G	58.18	74.00	-15.82	5.81	3	Vertical	170	2.97	-	52.37

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

01/11/2019



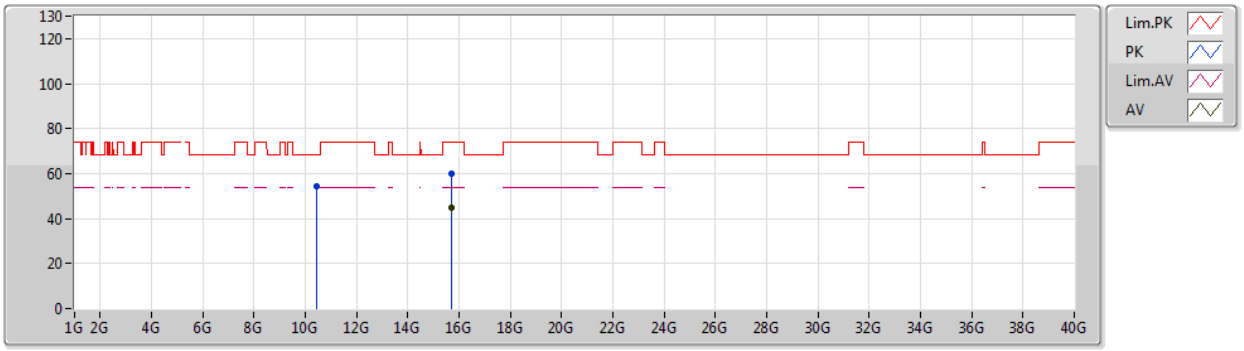
EUT Z_2TX_ANT 180
Setting 224
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1464G	65.10	74.00	-8.90	5.50	3	Horizontal	100	1.92	-	59.60
AV	5.1488G	49.66	54.00	-4.34	5.50	3	Horizontal	100	1.92	-	44.16
PK	5.2322G	119.80	Inf	-Inf	5.68	3	Horizontal	100	1.92	-	114.12
AV	5.234G	108.78	Inf	-Inf	5.69	3	Horizontal	100	1.92	-	103.09
PK	5.35G	62.39	74.00	-11.61	5.81	3	Horizontal	100	1.92	-	56.58
AV	5.35G	47.41	54.00	-6.59	5.81	3	Horizontal	100	1.92	-	41.60

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

01/11/2019



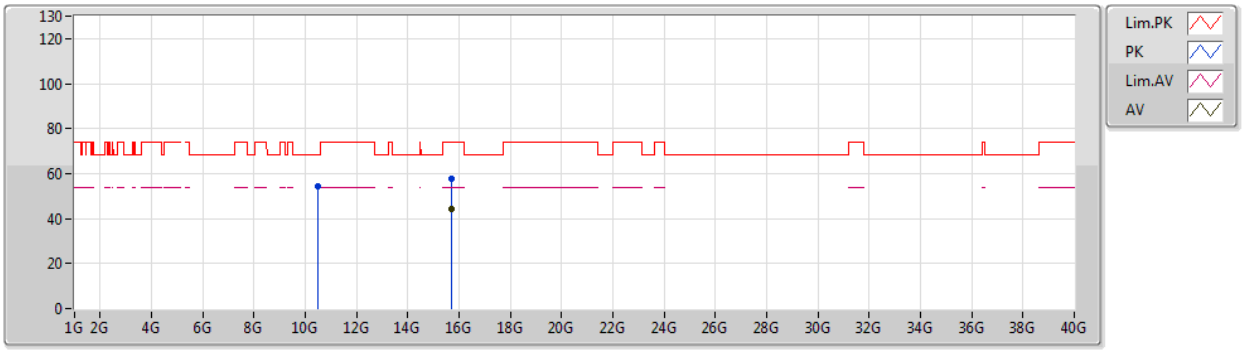
EUT Z_2TX_ANT 180
Setting 224
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.45612G	54.26	68.20	-13.94	12.27	3	Vertical	311	1.50	-	41.99
PK	15.70902G	59.98	74.00	-14.02	13.79	3	Vertical	210	1.51	-	46.19
AV	15.705G	44.93	54.00	-9.07	13.81	3	Vertical	210	1.51	-	31.12

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

01/11/2019



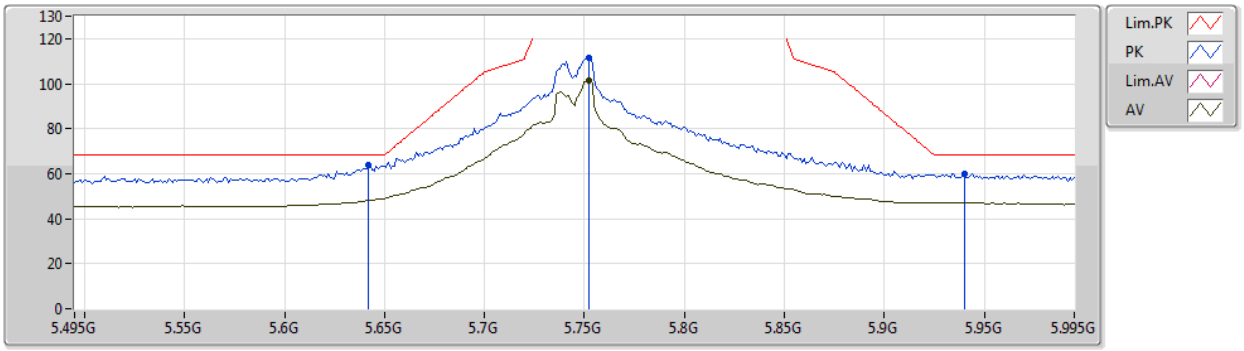
EUT Z_2TX_ANT 180
Setting 224
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.48372G	54.42	68.20	-13.78	12.30	3	Horizontal	75	2.45	-	42.12
PK	15.7176G	57.87	74.00	-16.13	13.76	3	Horizontal	315	1.76	-	44.11
AV	15.71308G	44.53	54.00	-9.47	13.78	3	Horizontal	315	1.76	-	30.75

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

04/11/2019



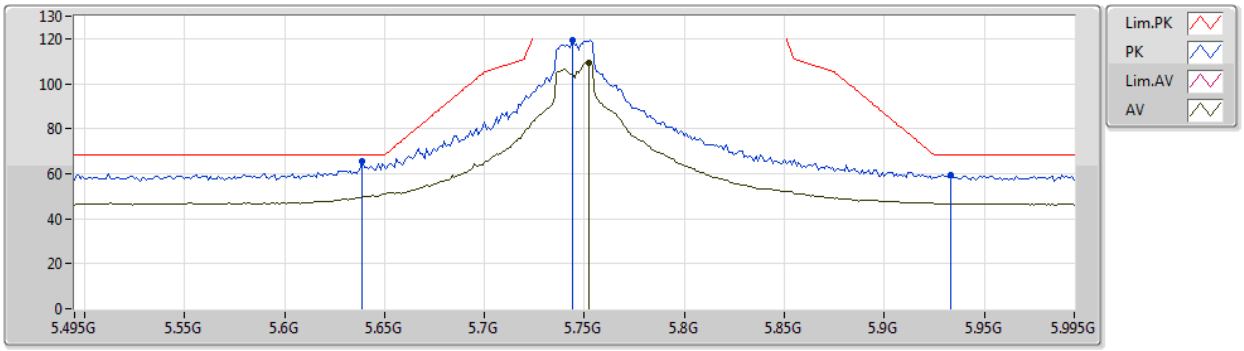
EUT Z_2TX_ANT 180
Setting 178
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.642G	64.15	68.20	-4.05	6.08	3	Vertical	178	2.77	-	58.07
PK	5.752G	111.40	Inf	-Inf	5.85	3	Vertical	178	2.77	-	105.55
AV	5.752G	101.45	Inf	-Inf	5.85	3	Vertical	178	2.77	-	95.60
PK	5.94G	60.19	68.20	-8.01	6.20	3	Vertical	178	2.77	-	53.99

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

04/11/2019



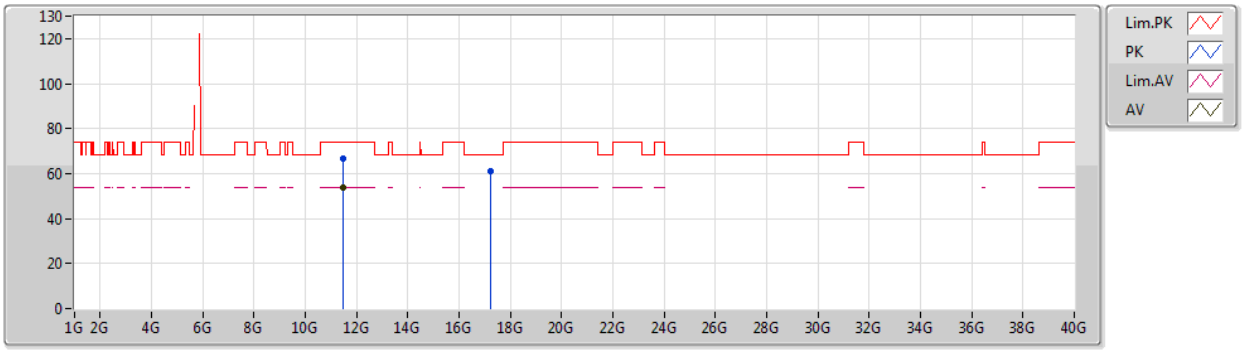
EUT Z_2TX_ANT 180
Setting 178
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.639G	65.58	68.20	-2.62	6.08	3	Horizontal	92	2.02	-	59.50
PK	5.744G	119.57	Inf	-Inf	5.86	3	Horizontal	92	2.02	-	113.71
AV	5.752G	109.28	Inf	-Inf	5.85	3	Horizontal	92	2.02	-	103.43
PK	5.933G	59.43	68.20	-8.77	6.18	3	Horizontal	92	2.02	-	53.25

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

04/11/2019



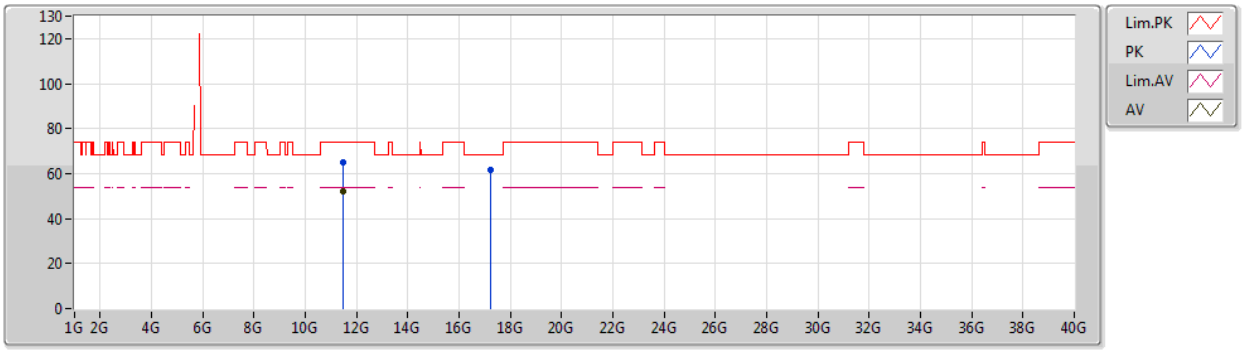
EUT Z_2TX_ANT 180
Setting 178
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.47956G	66.41	74.00	-7.59	13.00	3	Vertical	37	2.59	-	53.41
AV	11.48088G	53.78	54.00	-0.22	13.00	3	Vertical	37	2.59	-	40.78
PK	17.22552G	61.16	68.20	-7.04	17.29	3	Vertical	229	2.56	-	43.87

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

04/11/2019



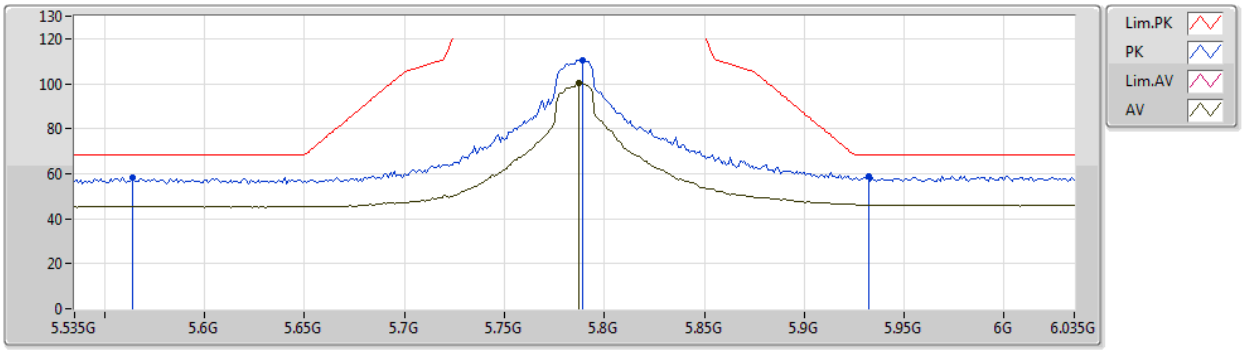
EUT Z_2TX_ANT 180
Setting 178
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.48088G	64.87	74.00	-9.13	13.00	3	Horizontal	175	2.83	-	51.87
AV	11.48088G	51.86	54.00	-2.14	13.00	3	Horizontal	175	2.83	-	38.86
PK	17.25132G	61.66	68.20	-6.54	17.41	3	Horizontal	163	1.38	-	44.25

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

04/11/2019



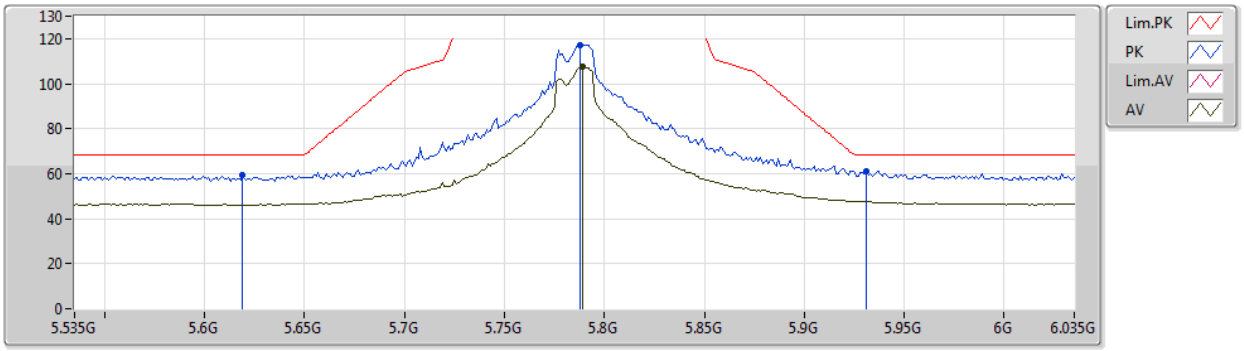
EUT Z_2TX_ANT 180
Setting 168
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.564G	58.21	68.20	-9.99	6.15	3	Vertical	161	2.90	-	52.06
PK	5.789G	110.49	Inf	-Inf	5.79	3	Vertical	161	2.90	-	104.70
AV	5.787G	100.20	Inf	-Inf	5.80	3	Vertical	161	2.90	-	94.40
PK	5.932G	58.86	68.20	-9.34	6.18	3	Vertical	161	2.90	-	52.68

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

04/11/2019



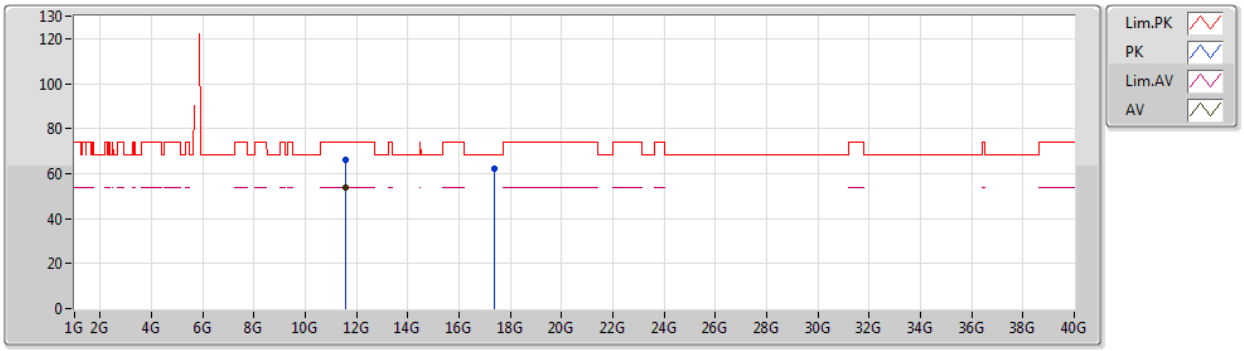
EUT Z_2TX_ANT 180
Setting 168
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.619G	59.15	68.20	-9.05	6.13	3	Horizontal	94	2.12	-	53.02
PK	5.788G	117.31	Inf	-Inf	5.80	3	Horizontal	94	2.12	-	111.51
AV	5.789G	107.32	Inf	-Inf	5.79	3	Horizontal	94	2.12	-	101.53
PK	5.931G	60.90	68.20	-7.30	6.16	3	Horizontal	94	2.12	-	54.74

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

04/11/2019

5785MHz_TX



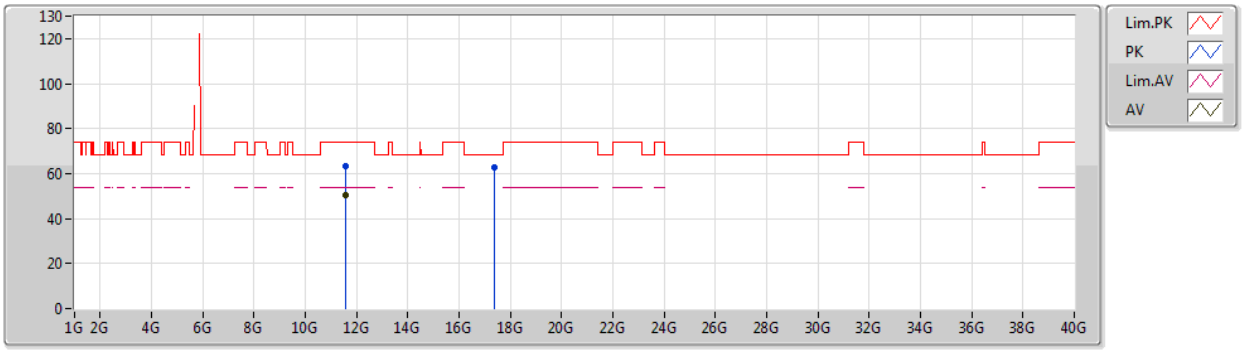
EUT Z_2TX_ANT 180
Setting 168
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.57336G	66.31	74.00	-7.69	13.04	3	Vertical	288	2.21	-	53.27
AV	11.56904G	53.83	54.00	-0.17	13.04	3	Vertical	288	2.21	-	40.79
PK	17.35536G	62.46	68.20	-5.74	17.95	3	Vertical	288	2.39	-	44.51

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

04/11/2019



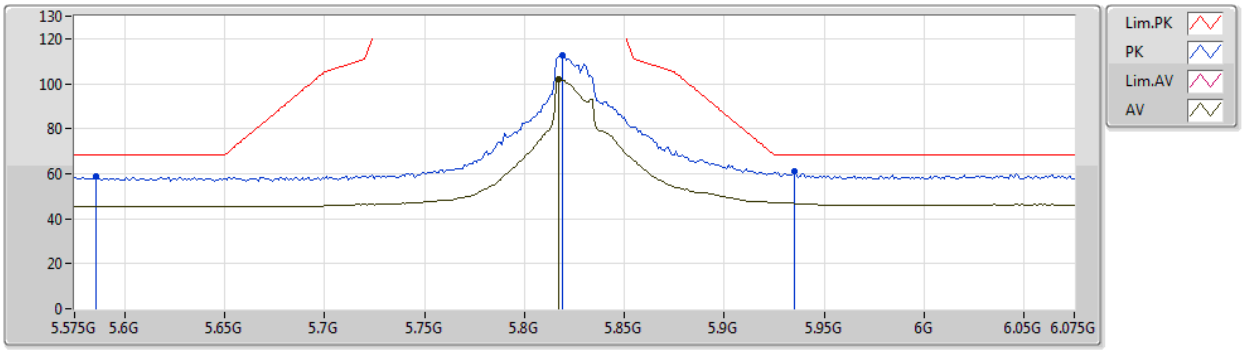
EUT Z_2TX_ANT 180
Setting 168
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.56664G	63.57	74.00	-10.43	13.04	3	Horizontal	172	2.79	-	50.53
AV	11.57096G	50.60	54.00	-3.40	13.04	3	Horizontal	172	2.79	-	37.56
PK	17.36388G	62.59	68.20	-5.61	18.00	3	Horizontal	114	2.20	-	44.59

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5825MHz_TX

01/11/2019



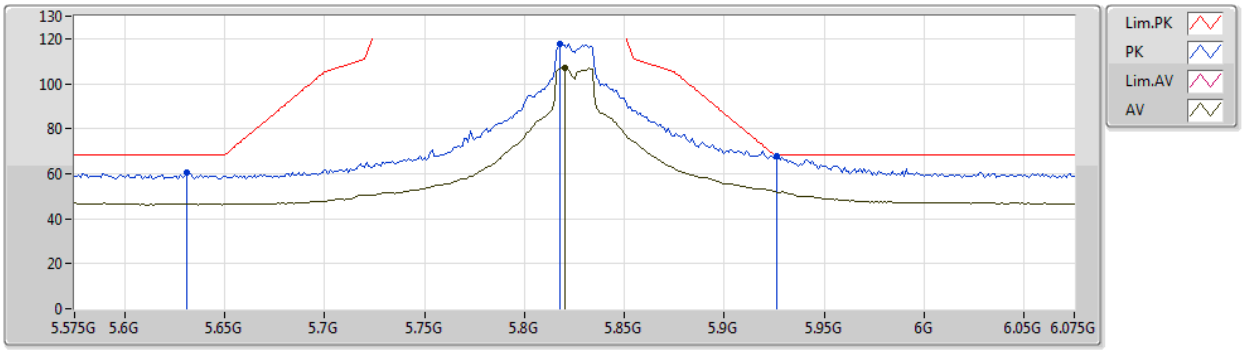
EUT Z_2TX_ANT 180
Setting 141
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.586G	58.65	68.20	-9.55	6.16	3	Vertical	171	2.82	-	52.49
PK	5.819G	112.47	Inf	-Inf	5.84	3	Vertical	171	2.82	-	106.63
AV	5.817G	102.24	Inf	-Inf	5.82	3	Vertical	171	2.82	-	96.42
PK	5.935G	61.15	68.20	-7.05	6.18	3	Vertical	171	2.82	-	54.97

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5825MHz_TX

01/11/2019



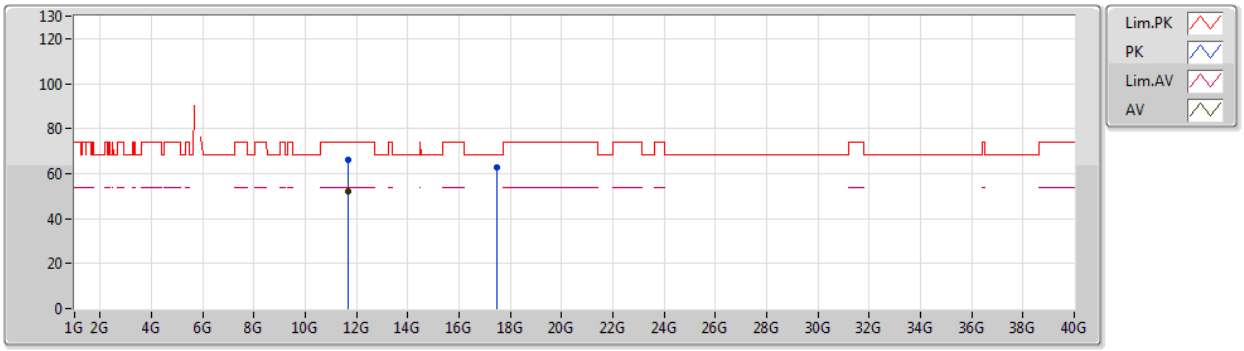
EUT Z_2TX_ANT 180
Setting 141
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.631G	60.70	68.20	-7.50	6.10	3	Horizontal	262	2.09	-	54.60
PK	5.818G	117.56	Inf	-Inf	5.83	3	Horizontal	262	2.09	-	111.73
AV	5.82G	107.02	Inf	-Inf	5.84	3	Horizontal	262	2.09	-	101.18
PK	5.926G	68.01	68.20	-0.19	6.15	3	Horizontal	262	2.09	-	61.86

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

01/11/2019

5825MHz_TX



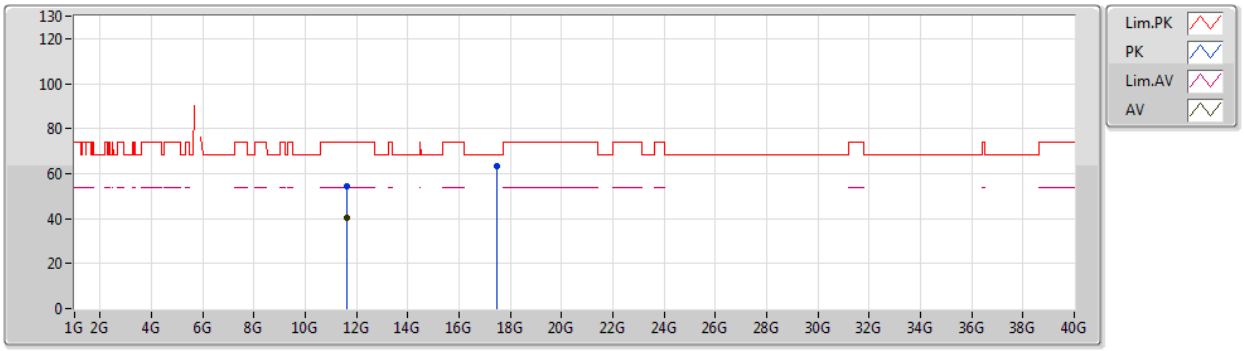
EUT Z_2TX_ANT 180
Setting 141
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.65264G	65.90	74.00	-8.10	13.09	3	Vertical	211	1.70	-	52.81
AV	11.65456G	52.13	54.00	-1.87	13.09	3	Vertical	211	1.70	-	39.04
PK	17.4684G	63.02	68.20	-5.18	18.53	3	Vertical	85	1.69	-	44.49

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

01/11/2019

5825MHz_TX



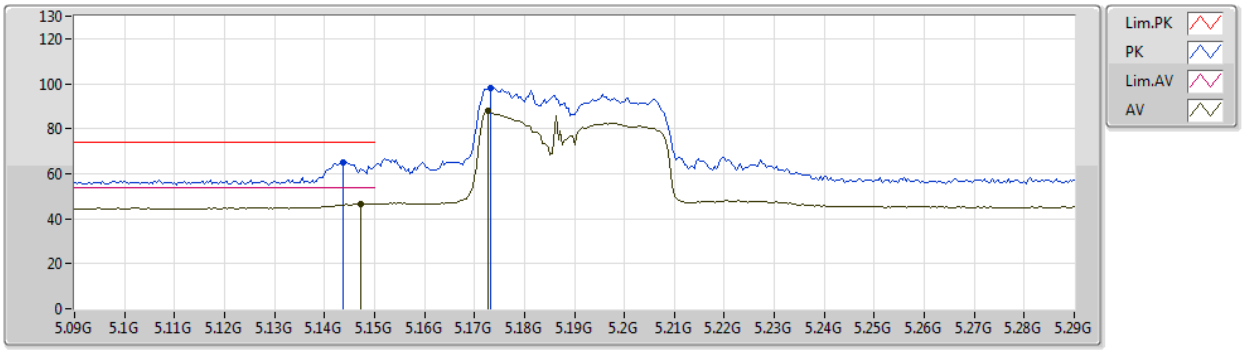
EUT Z_2TX_ANT 180
Setting 141
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.6422G	54.11	74.00	-19.89	13.08	3	Horizontal	334	2.93	-	41.03
AV	11.62624G	40.58	54.00	-13.42	13.07	3	Horizontal	334	2.93	-	27.51
PK	17.49048G	63.19	68.20	-5.01	18.64	3	Horizontal	247	1.10	-	44.55

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

01/11/2019

5190MHz_TX



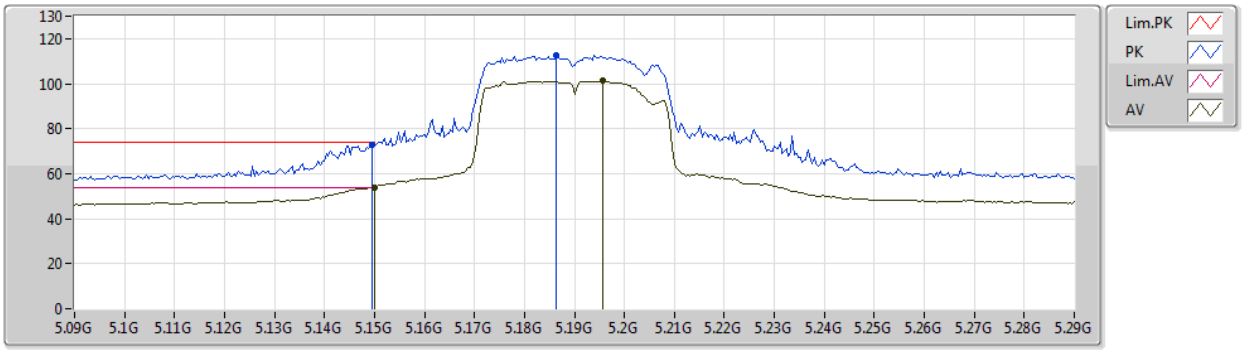
EUT Z_2TX_ANT 180
Setting 38
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1436G	65.15	74.00	-8.85	5.48	3	Vertical	15	2.69	-	59.67
AV	5.1472G	46.70	54.00	-7.30	5.50	3	Vertical	15	2.69	-	41.20
PK	5.1732G	98.07	Inf	-Inf	5.56	3	Vertical	15	2.69	-	92.51
AV	5.1728G	87.70	Inf	-Inf	5.56	3	Vertical	15	2.69	-	82.14

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

01/11/2019



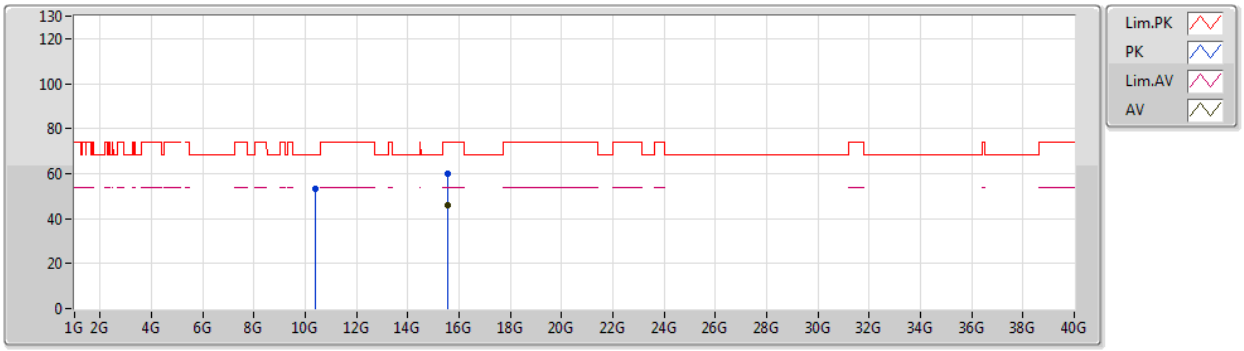
EUT Z_2TX_ANT 180
Setting 38
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1496G	72.99	74.00	-1.01	5.50	3	Horizontal	87	2.24	-	67.49
AV	5.15G	53.83	54.00	-0.17	5.50	3	Horizontal	87	2.24	-	48.33
PK	5.1864G	112.37	Inf	-Inf	5.60	3	Horizontal	87	2.24	-	106.77
AV	5.1956G	101.18	Inf	-Inf	5.63	3	Horizontal	87	2.24	-	95.55

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

01/11/2019



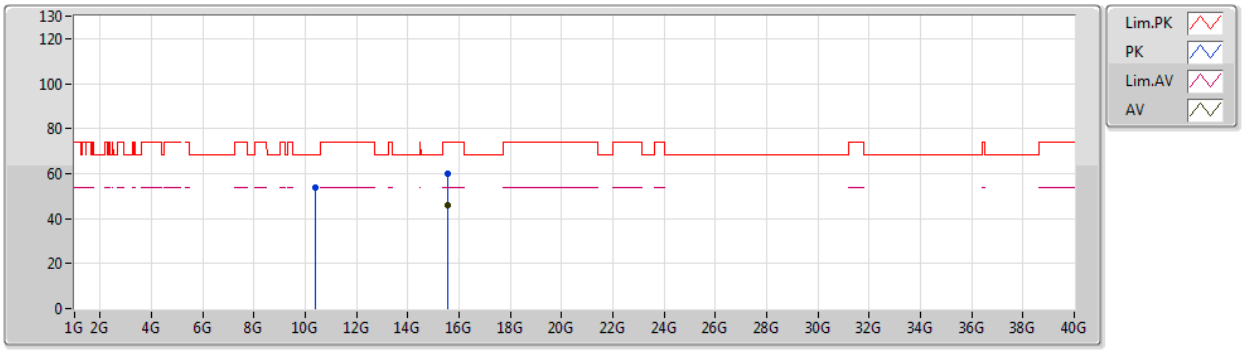
EUT Z_2TX_ANT 180
Setting 38
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.37908G	53.37	68.20	-14.83	12.21	3	Vertical	109	2.17	-	41.16
PK	15.57724G	59.82	74.00	-14.18	14.27	3	Vertical	313	1.58	-	45.55
AV	15.5796G	45.91	54.00	-8.09	14.26	3	Vertical	313	1.58	-	31.65

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

01/11/2019



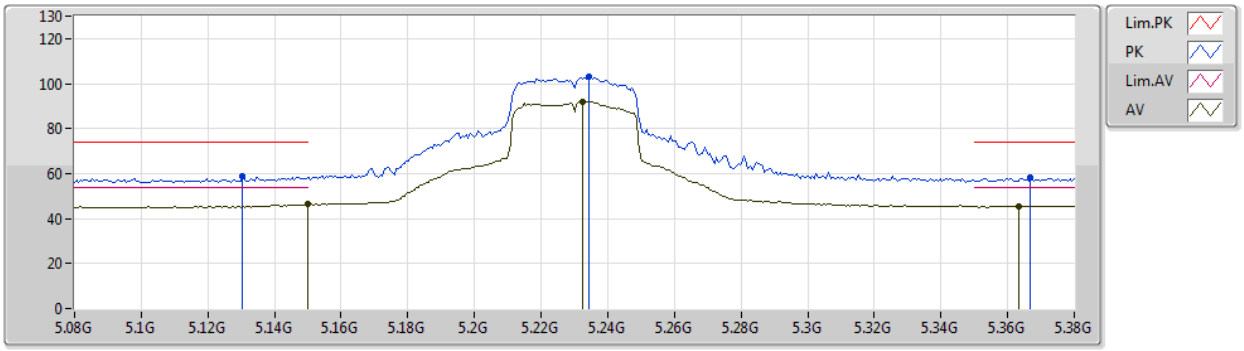
EUT Z_2TX_ANT 180
Setting 38
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.3752G	53.88	68.20	-14.32	12.21	3	Horizontal	20	1.31	-	41.67
PK	15.57536G	59.91	74.00	-14.09	14.26	3	Horizontal	75	2.16	-	45.65
AV	15.56828G	45.89	54.00	-8.11	14.30	3	Horizontal	75	2.16	-	31.59

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

04/11/2019



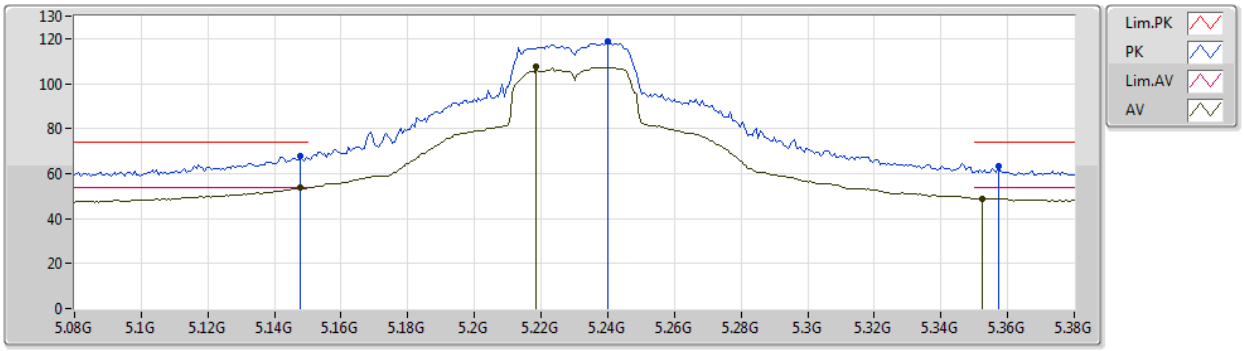
EUT Z_2TX_ANT 180
Setting 126
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1304G	58.80	74.00	-15.20	5.45	3	Vertical	25	2.45	-	53.35
AV	5.15G	46.36	54.00	-7.64	5.50	3	Vertical	25	2.45	-	40.86
PK	5.2342G	102.99	Inf	-Inf	5.69	3	Vertical	25	2.45	-	97.30
AV	5.2324G	91.98	Inf	-Inf	5.68	3	Vertical	25	2.45	-	86.30
PK	5.3668G	58.42	74.00	-15.58	5.82	3	Vertical	25	2.45	-	52.60
AV	5.3632G	45.56	54.00	-8.44	5.81	3	Vertical	25	2.45	-	39.75

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

04/11/2019



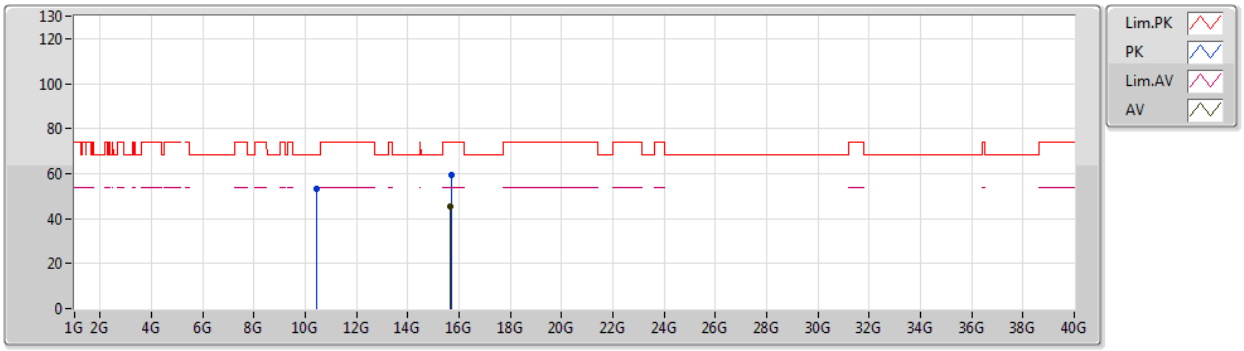
EUT Z_2TX_ANT 180
Setting 126
03-C-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1478G	67.70	74.00	-6.30	5.50	3	Horizontal	277	2.42	-	62.20
AV	5.1476G	53.82	54.00	-0.18	5.50	3	Horizontal	277	2.42	-	48.32
PK	5.2402G	118.69	Inf	-Inf	5.70	3	Horizontal	277	2.42	-	112.99
AV	5.2186G	107.42	Inf	-Inf	5.67	3	Horizontal	277	2.42	-	101.75
PK	5.3572G	63.07	74.00	-10.93	5.82	3	Horizontal	277	2.42	-	57.25
AV	5.3524G	48.93	54.00	-5.07	5.81	3	Horizontal	277	2.42	-	43.12

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

04/11/2019



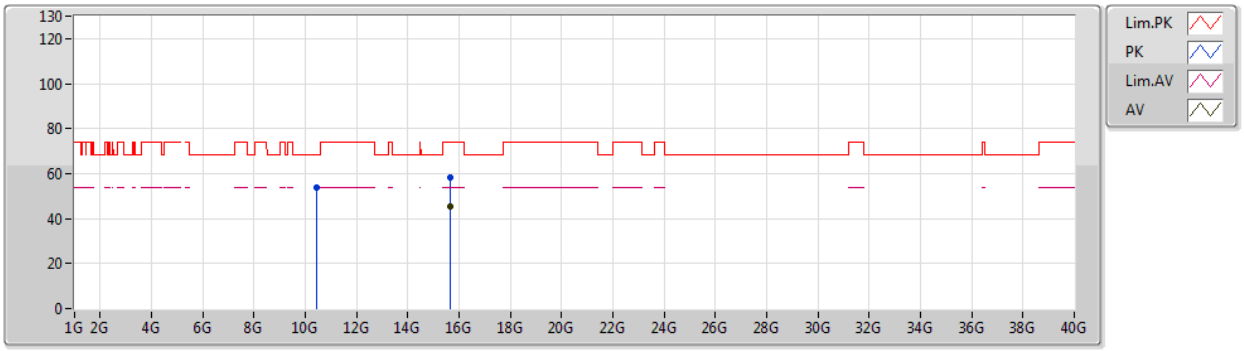
EUT Z_2TX_ANT 180
Setting 126
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.4537G	53.14	68.20	-15.06	12.27	3	Vertical	303	1.82	-	40.87
PK	15.684G	59.26	74.00	-14.74	13.89	3	Vertical	112	2.53	-	45.37
AV	15.67584G	45.32	54.00	-8.68	13.90	3	Vertical	112	2.53	-	31.42

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

04/11/2019



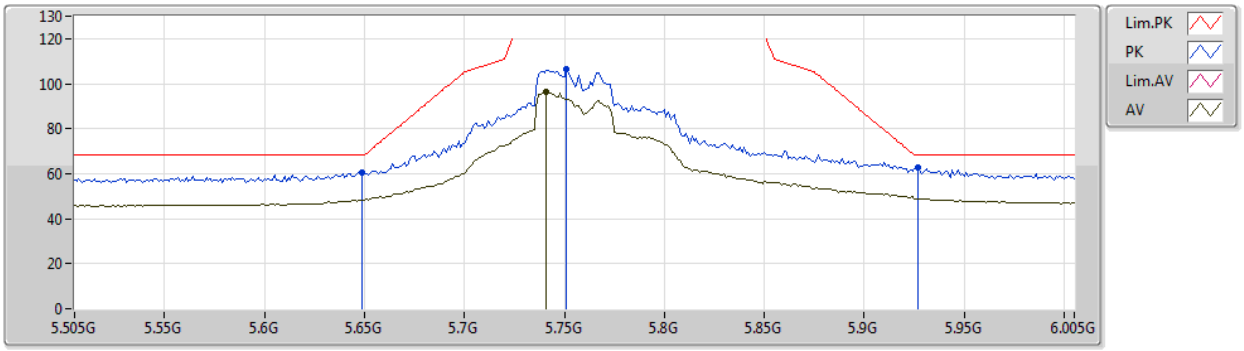
EUT Z_2TX_ANT 180
Setting 126
03-C-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.4498G	53.74	68.20	-14.46	12.27	3	Horizontal	179	1.35	-	41.47
PK	15.67692G	58.23	74.00	-15.77	13.90	3	Horizontal	175	2.20	-	44.33
AV	15.6774G	45.16	54.00	-8.84	13.90	3	Horizontal	175	2.20	-	31.26

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

04/11/2019



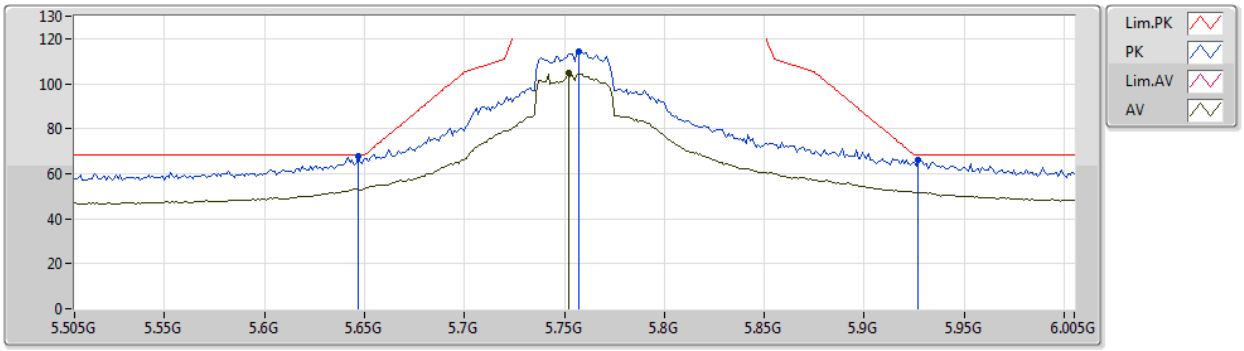
EUT Z_2TX_ANT 180
Setting 150
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.649G	60.78	68.20	-7.42	6.06	3	Vertical	351	2.94	-	54.72
PK	5.751G	106.21	Inf	-Inf	5.85	3	Vertical	351	2.94	-	100.36
AV	5.741G	96.15	Inf	-Inf	5.87	3	Vertical	351	2.94	-	90.28
PK	5.927G	62.55	68.20	-5.65	6.15	3	Vertical	351	2.94	-	56.40

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

04/11/2019



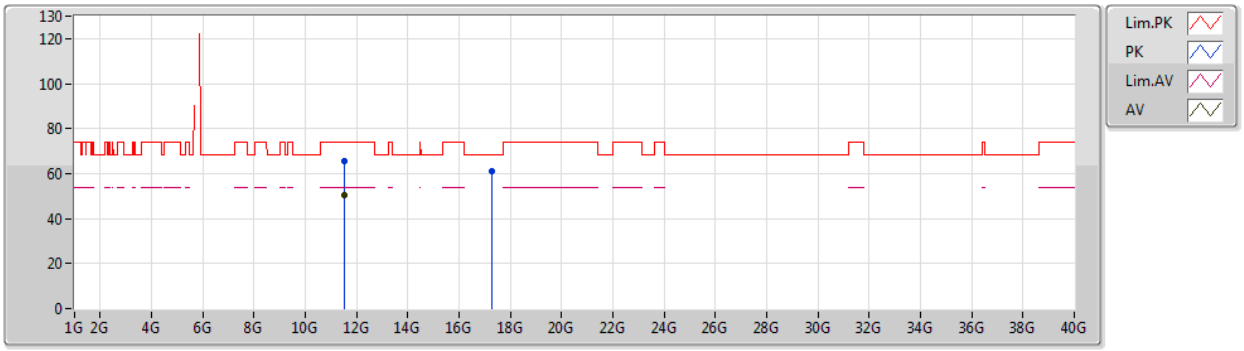
EUT Z_2TX_ANT 180
Setting 150
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.647G	67.77	68.20	-0.43	6.06	3	Horizontal	279	2.50	-	61.71
PK	5.757G	114.11	Inf	-Inf	5.85	3	Horizontal	279	2.50	-	108.26
AV	5.752G	104.99	Inf	-Inf	5.85	3	Horizontal	279	2.50	-	99.14
PK	5.927G	66.24	68.20	-1.96	6.15	3	Horizontal	279	2.50	-	60.09

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

04/11/2019



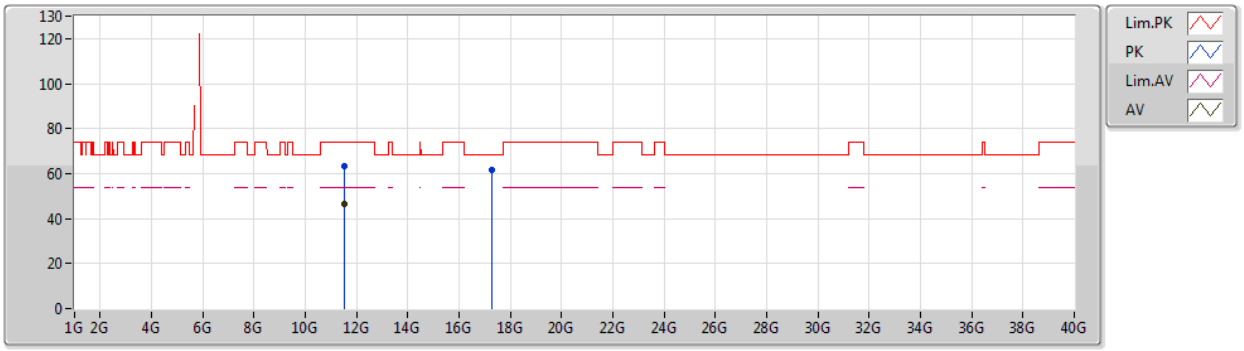
EUT Z_2TX_ANT 180
Setting 150
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.51006G	65.47	74.00	-8.53	13.01	3	Vertical	233	1.63	-	52.46
AV	11.51618G	50.52	54.00	-3.48	13.01	3	Vertical	233	1.63	-	37.51
PK	17.2548G	61.17	68.20	-7.03	17.43	3	Vertical	153	2.30	-	43.74

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

04/11/2019

5755MHz_TX



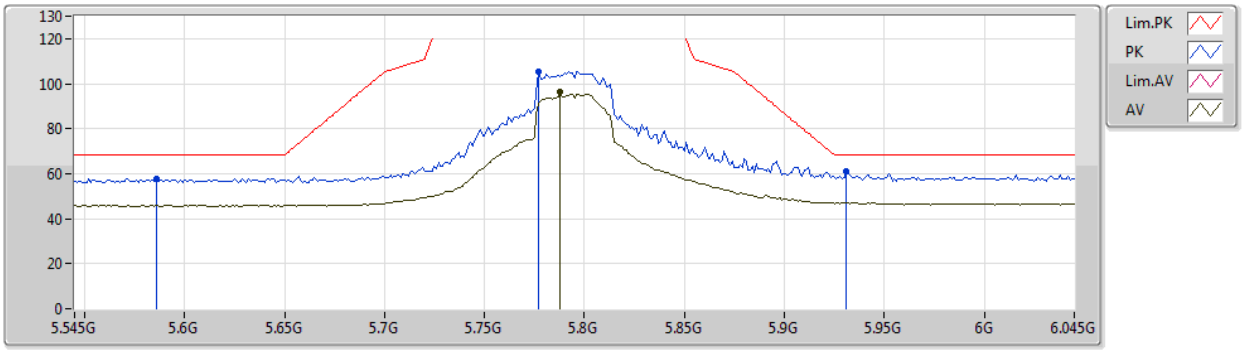
EUT Z_2TX_ANT 180
Setting 150
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.51G	63.53	74.00	-10.47	13.01	3	Horizontal	0	2.01	-	50.52
AV	11.51144G	46.45	54.00	-7.55	13.01	3	Horizontal	0	2.01	-	33.44
PK	17.27448G	61.57	68.20	-6.63	17.54	3	Horizontal	268	1.50	-	44.03

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

04/11/2019



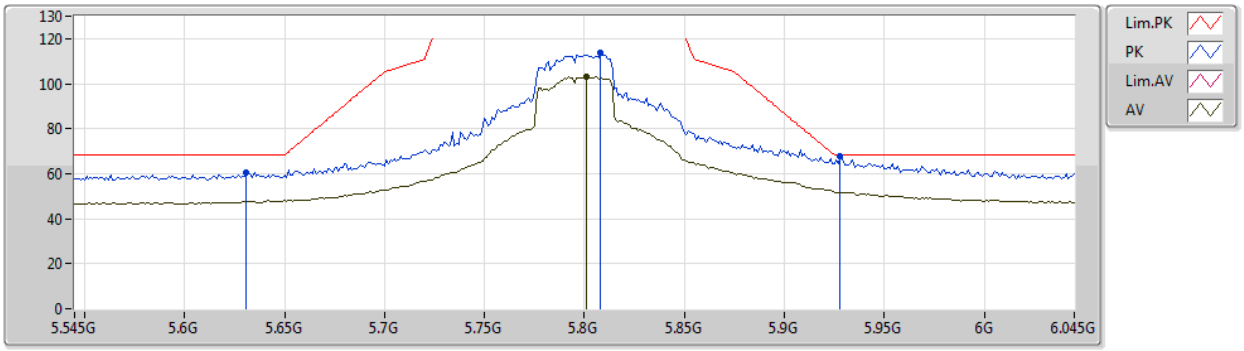
EUT Z_2TX_ANT 180
Setting 126
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.586G	57.99	68.20	-10.21	6.16	3	Vertical	7	2.71	-	51.83
PK	5.777G	105.45	Inf	-Inf	5.81	3	Vertical	7	2.71	-	99.64
AV	5.788G	96.13	Inf	-Inf	5.80	3	Vertical	7	2.71	-	90.33
PK	5.931G	61.05	68.20	-7.15	6.16	3	Vertical	7	2.71	-	54.89

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

04/11/2019



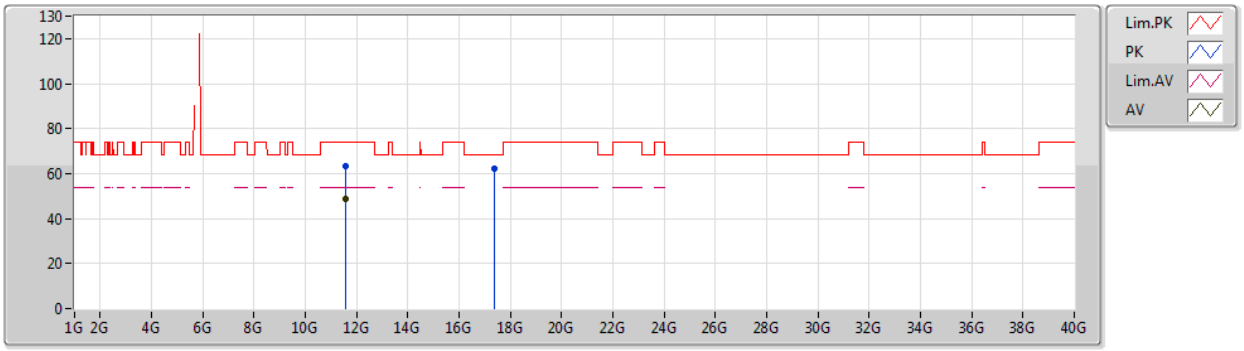
EUT Z_2TX_ANT 180
Setting 126
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.631G	60.68	68.20	-7.52	6.10	3	Horizontal	276	2.44	-	54.58
PK	5.808G	113.65	Inf	-Inf	5.81	3	Horizontal	276	2.44	-	107.84
AV	5.801G	102.88	Inf	-Inf	5.78	3	Horizontal	276	2.44	-	97.10
PK	5.928G	67.71	68.20	-0.49	6.15	3	Horizontal	276	2.44	-	61.56

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

04/11/2019



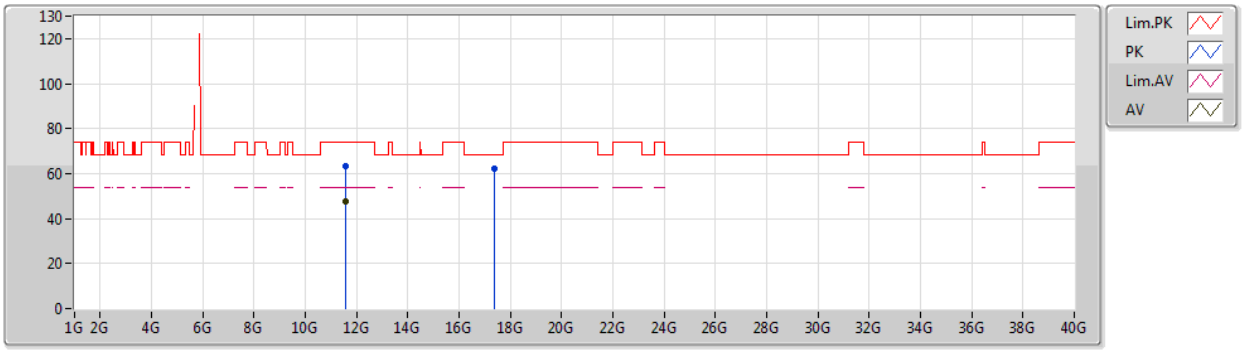
EUT Z_2TX_ANT 180
Setting 126
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.59012G	63.56	74.00	-10.44	13.05	3	Vertical	42	1.41	-	50.51
AV	11.59726G	48.90	54.00	-5.10	13.05	3	Vertical	42	1.41	-	35.85
PK	17.38194G	62.15	68.20	-6.05	18.08	3	Vertical	346	2.98	-	44.07

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

04/11/2019



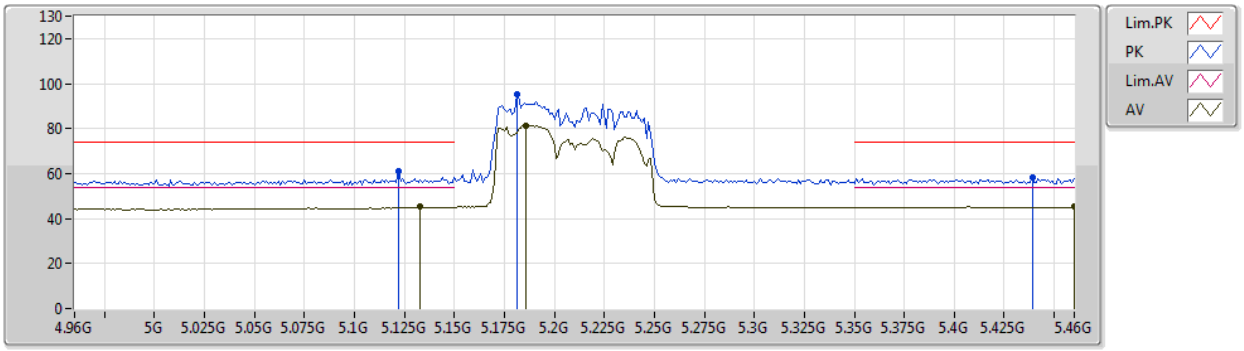
EUT Z_2TX_ANT 180
Setting 126
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.59G	63.12	74.00	-10.88	13.05	3	Horizontal	328	1.60	-	50.07
AV	11.5906G	47.90	54.00	-6.10	13.05	3	Horizontal	328	1.60	-	34.85
PK	17.39958G	62.32	68.20	-5.88	18.18	3	Horizontal	182	2.85	-	44.14

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

01/11/2019



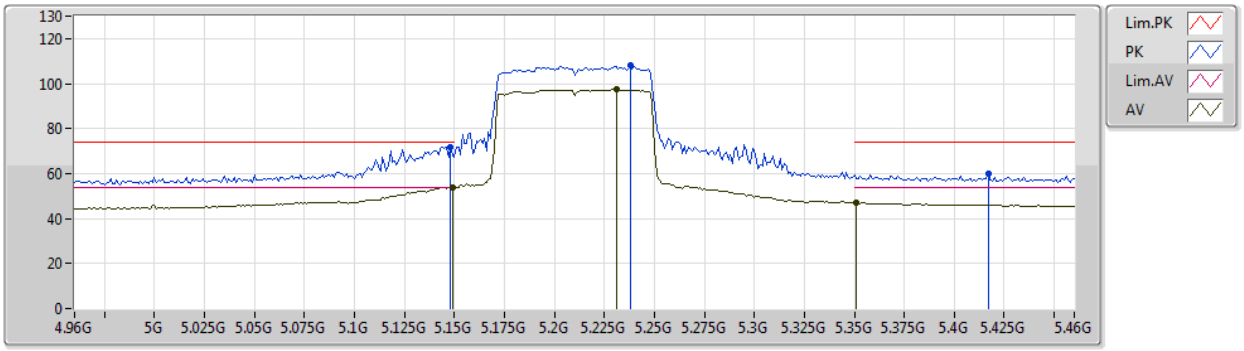
EUT Z_2TX_ANT 180
Setting 35
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.122G	61.01	74.00	-12.99	5.42	3	Vertical	227	1.03	-	55.59
AV	5.133G	45.26	54.00	-8.74	5.45	3	Vertical	227	1.03	-	39.81
PK	5.181G	95.03	Inf	-Inf	5.58	3	Vertical	227	1.03	-	89.45
AV	5.186G	81.40	Inf	-Inf	5.60	3	Vertical	227	1.03	-	75.80
PK	5.439G	58.06	74.00	-15.94	5.95	3	Vertical	227	1.03	-	52.11
AV	5.46G	45.16	54.00	-8.84	6.01	3	Vertical	227	1.03	-	39.15

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

01/11/2019



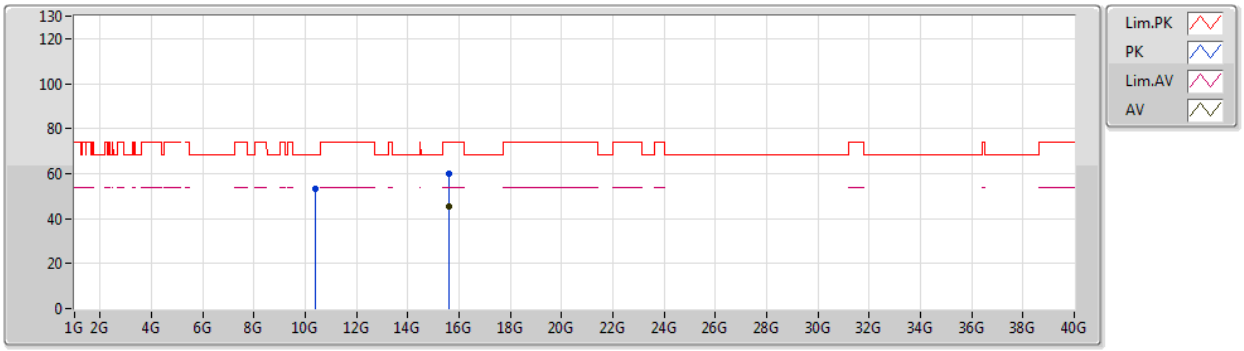
EUT Z_2TX_ANT 180
Setting 35
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.148G	71.97	74.00	-2.03	5.50	3	Horizontal	94	2.30	-	66.47
AV	5.149G	53.85	54.00	-0.15	5.50	3	Horizontal	94	2.30	-	48.35
PK	5.238G	108.13	Inf	-Inf	5.70	3	Horizontal	94	2.30	-	102.43
AV	5.231G	97.34	Inf	-Inf	5.68	3	Horizontal	94	2.30	-	91.66
PK	5.417G	59.82	74.00	-14.18	5.89	3	Horizontal	94	2.30	-	53.93
AV	5.351G	47.02	54.00	-6.98	5.81	3	Horizontal	94	2.30	-	41.21

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

01/11/2019



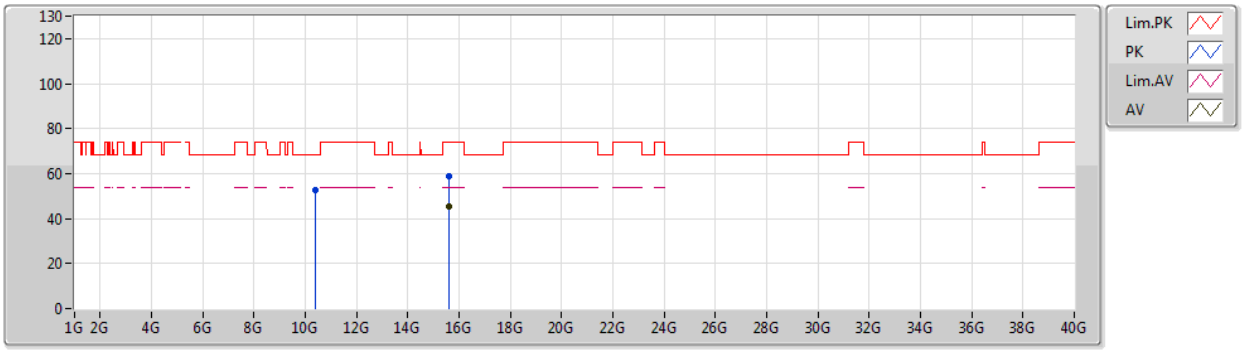
EUT Z_2TX_ANT 180
Setting 35
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.40902G	53.45	68.20	-14.75	12.23	3	Vertical	81	2.35	-	41.22
PK	15.61674G	59.80	74.00	-14.20	14.12	3	Vertical	46	1.53	-	45.68
AV	15.61752G	45.31	54.00	-8.69	14.12	3	Vertical	46	1.53	-	31.19

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

01/11/2019



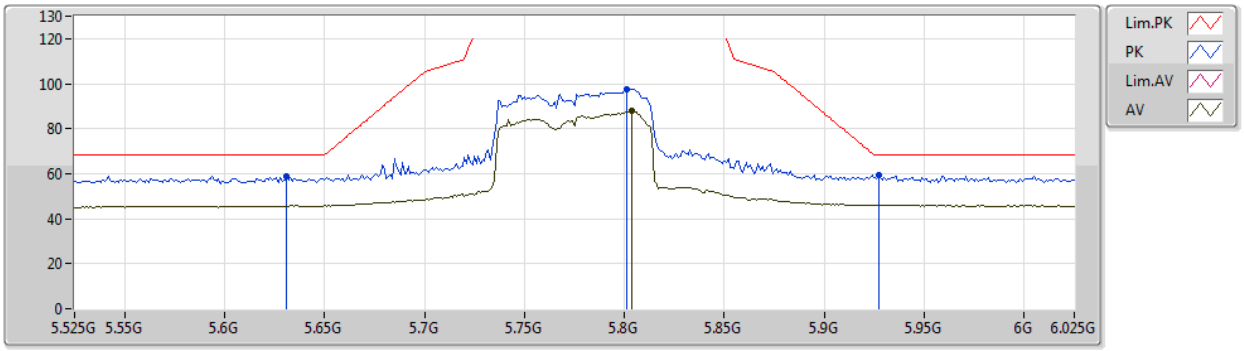
EUT Z_2TX_ANT 180
Setting 35
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.4176G	52.91	68.20	-15.29	12.23	3	Horizontal	58	1.34	-	40.68
PK	15.62346G	58.86	74.00	-15.14	14.10	3	Horizontal	254	2.14	-	44.76
AV	15.61518G	45.25	54.00	-8.75	14.12	3	Horizontal	254	2.14	-	31.13

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

04/11/2019



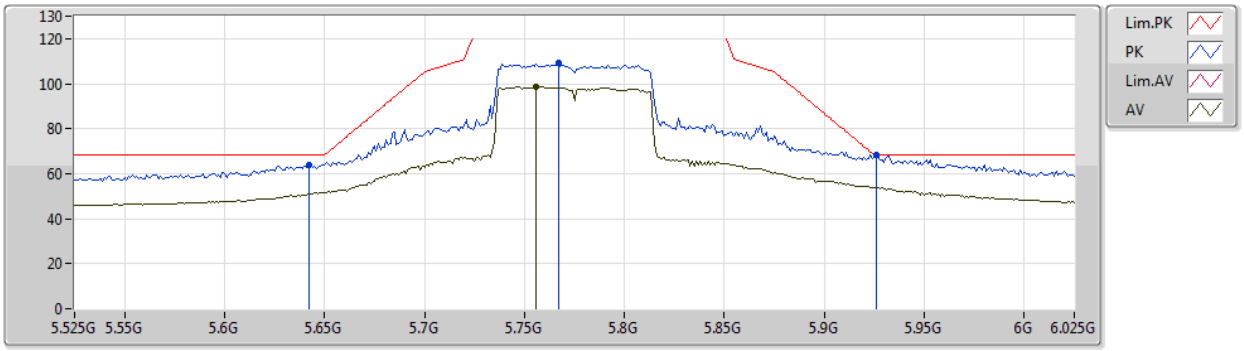
EUT Z_2TX_ANT 180
Setting 60
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.631G	59.11	68.20	-9.09	6.10	3	Vertical	168	2.64	-	53.01
PK	5.801G	97.77	Inf	-Inf	5.78	3	Vertical	168	2.64	-	91.99
AV	5.804G	87.90	Inf	-Inf	5.79	3	Vertical	168	2.64	-	82.11
PK	5.927G	59.38	68.20	-8.82	6.15	3	Vertical	168	2.64	-	53.23

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

04/11/2019



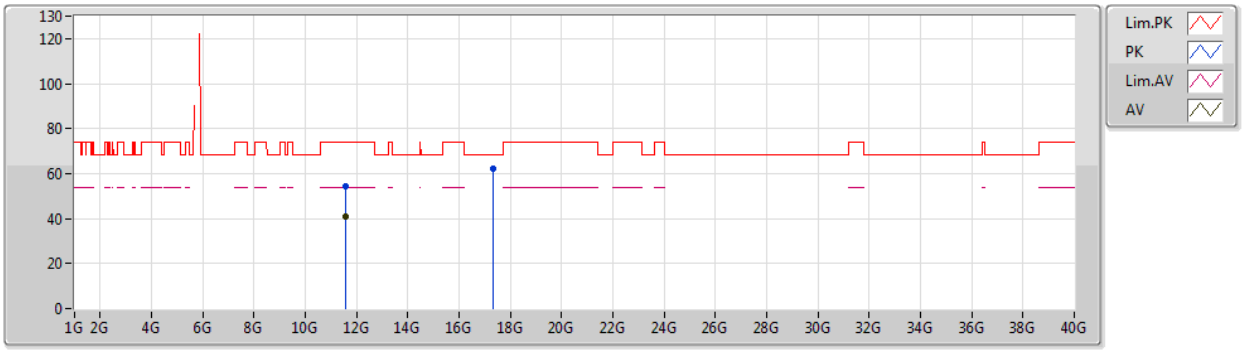
EUT Z_2TX_ANT 180
Setting 60
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.642G	63.61	68.20	-4.59	6.08	3	Horizontal	83	1.95	-	57.53
PK	5.767G	108.99	Inf	-Inf	5.83	3	Horizontal	83	1.95	-	103.16
AV	5.756G	98.60	Inf	-Inf	5.85	3	Horizontal	83	1.95	-	92.75
PK	5.926G	68.13	68.20	-0.07	6.15	3	Horizontal	83	1.95	-	61.98

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

04/11/2019



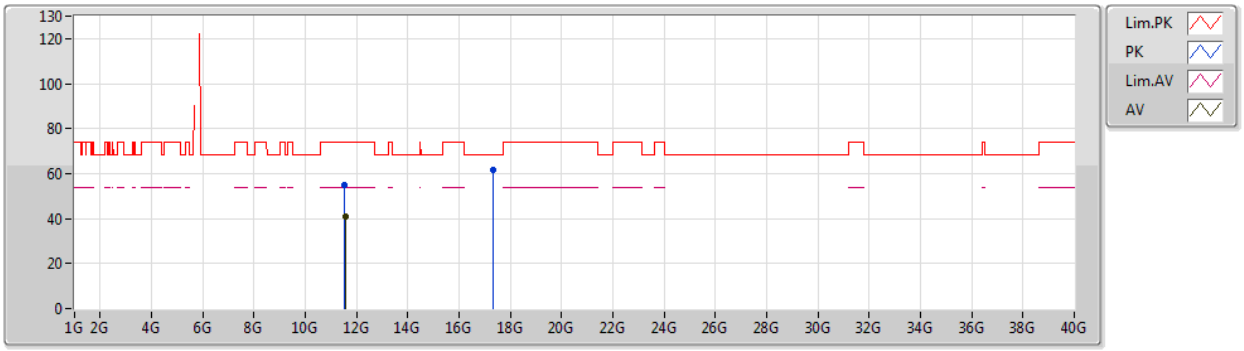
EUT Z_2TX_ANT 180
Setting 60
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.5545G	54.53	74.00	-19.47	13.03	3	Vertical	298	2.40	-	41.50
AV	11.56008G	40.83	54.00	-13.17	13.03	3	Vertical	298	2.40	-	27.80
PK	17.33772G	62.26	68.20	-5.94	17.86	3	Vertical	95	1.37	-	44.40

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

04/11/2019



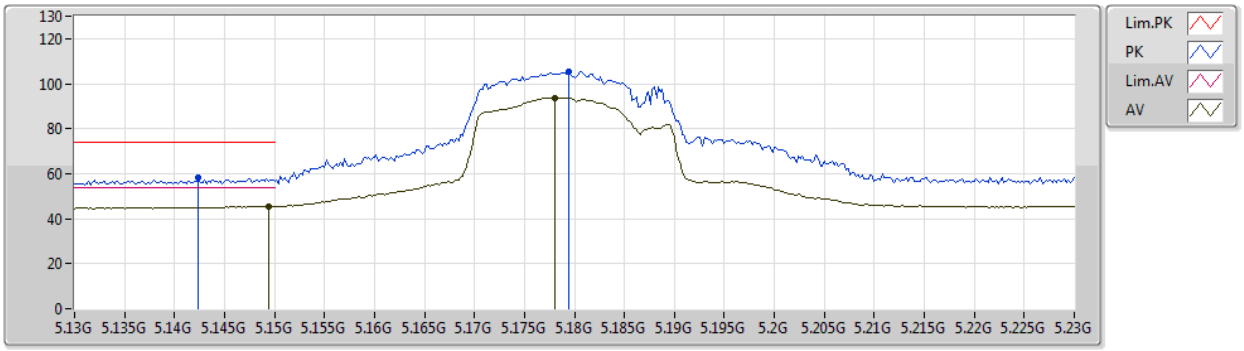
EUT Z_2TX_ANT 180
Setting 60
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.54868G	54.87	74.00	-19.13	13.02	3	Horizontal	278	2.24	-	41.85
AV	11.56212G	40.73	54.00	-13.27	13.03	3	Horizontal	278	2.24	-	27.70
PK	17.3331G	61.69	68.20	-6.51	17.84	3	Horizontal	281	2.38	-	43.85

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

02/11/2019



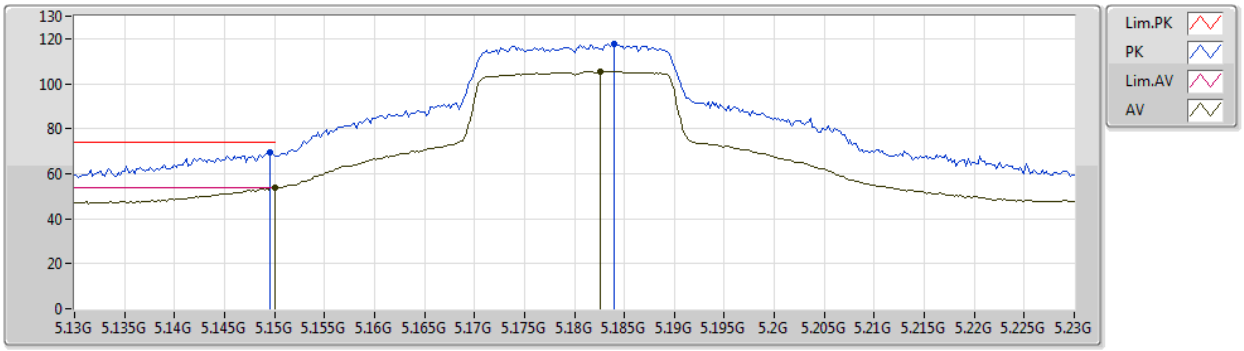
EUT Z_2TX_ANT 180
Setting 63
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1424G	58.10	74.00	-15.90	5.48	3	Vertical	29	2.99	-	52.62
AV	5.1494G	45.65	54.00	-8.35	5.50	3	Vertical	29	2.99	-	40.15
PK	5.1794G	105.57	Inf	-Inf	5.58	3	Vertical	29	2.99	-	99.99
AV	5.178G	93.82	Inf	-Inf	5.58	3	Vertical	29	2.99	-	88.24

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

02/11/2019



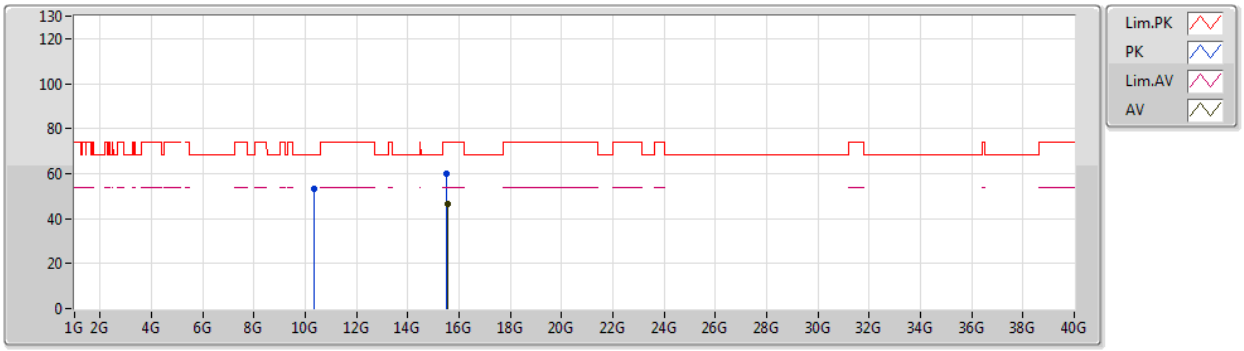
EUT Z_2TX_ANT 180
Setting 63
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1496G	69.40	74.00	-4.60	5.50	3	Horizontal	267	2.38	-	63.90
AV	5.15G	53.64	54.00	-0.36	5.50	3	Horizontal	267	2.38	-	48.14
PK	5.184G	117.63	Inf	-Inf	5.59	3	Horizontal	267	2.38	-	112.04
AV	5.1826G	105.41	Inf	-Inf	5.59	3	Horizontal	267	2.38	-	99.82

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

02/11/2019



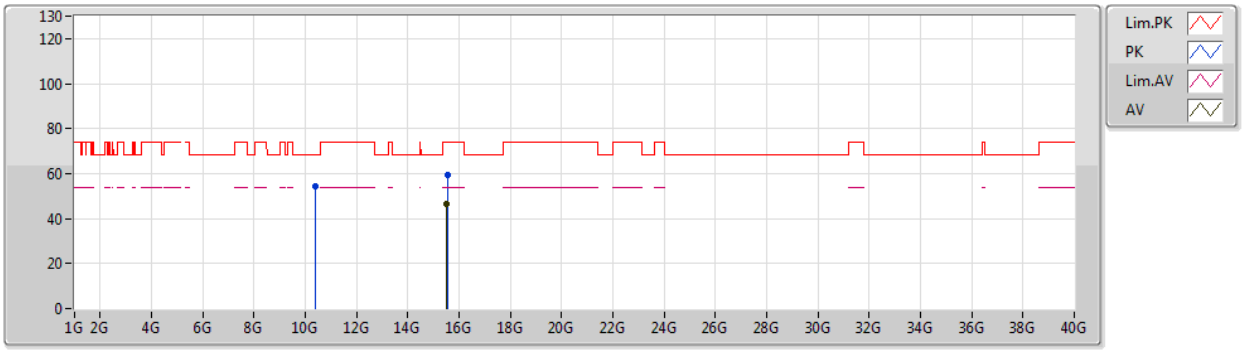
EUT Z_2TX_ANT 180
Setting 63
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.36216G	53.23	68.20	-14.97	12.19	3	Vertical	266	1.50	-	41.04
PK	15.52776G	60.05	74.00	-13.95	14.45	3	Vertical	6	2.64	-	45.60
AV	15.5349G	46.36	54.00	-7.64	14.43	3	Vertical	6	2.64	-	31.93

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

02/11/2019



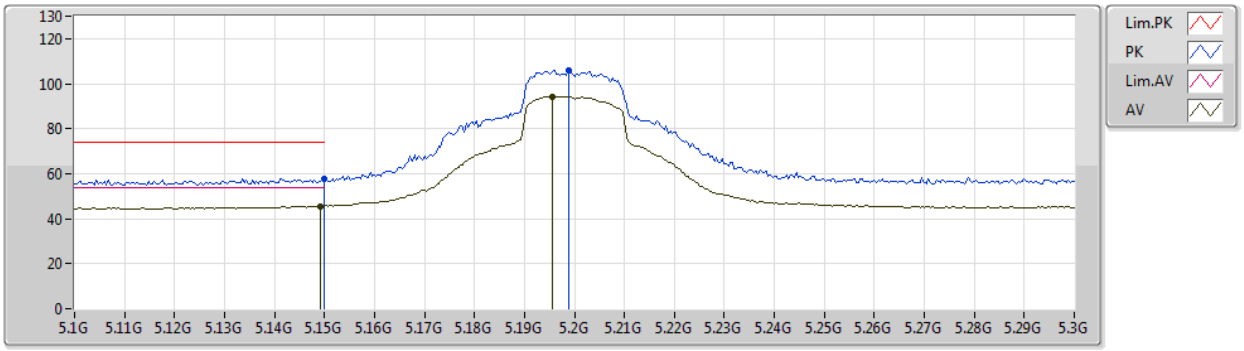
EUT Z_2TX_ANT 180
Setting 63
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.37494G	54.35	68.20	-13.85	12.19	3	Horizontal	186	2.80	-	42.16
PK	15.53784G	59.44	74.00	-14.56	14.41	3	Horizontal	347	1.47	-	45.03
AV	15.53178G	46.42	54.00	-7.58	14.43	3	Horizontal	347	1.47	-	31.99

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

04/11/2019



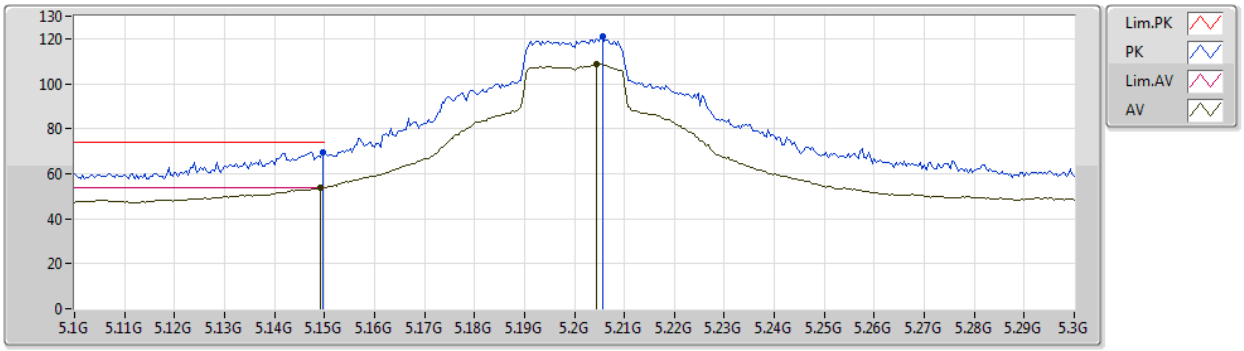
EUT Z_2TX_ANT 180
Setting 178
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.15G	57.54	74.00	-16.46	5.50	3	Vertical	154	2.51	-	52.04
AV	5.1492G	45.66	54.00	-8.34	5.50	3	Vertical	154	2.51	-	40.16
PK	5.1988G	106.05	Inf	-Inf	5.64	3	Vertical	154	2.51	-	100.41
AV	5.1956G	94.26	Inf	-Inf	5.63	3	Vertical	154	2.51	-	88.63

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

04/11/2019



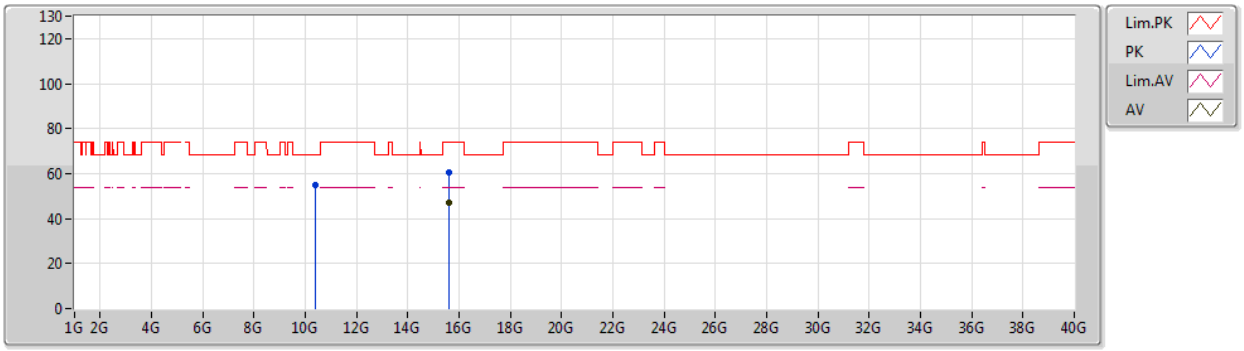
EUT Z_2TX_ANT 180
Setting 178
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1496G	69.59	74.00	-4.41	5.50	3	Horizontal	89	2.33	-	64.09
AV	5.1492G	53.89	54.00	-0.11	5.50	3	Horizontal	89	2.33	-	48.39
PK	5.2056G	120.88	Inf	-Inf	5.65	3	Horizontal	89	2.33	-	115.23
AV	5.2044G	108.64	Inf	-Inf	5.65	3	Horizontal	89	2.33	-	102.99

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

04/11/2019



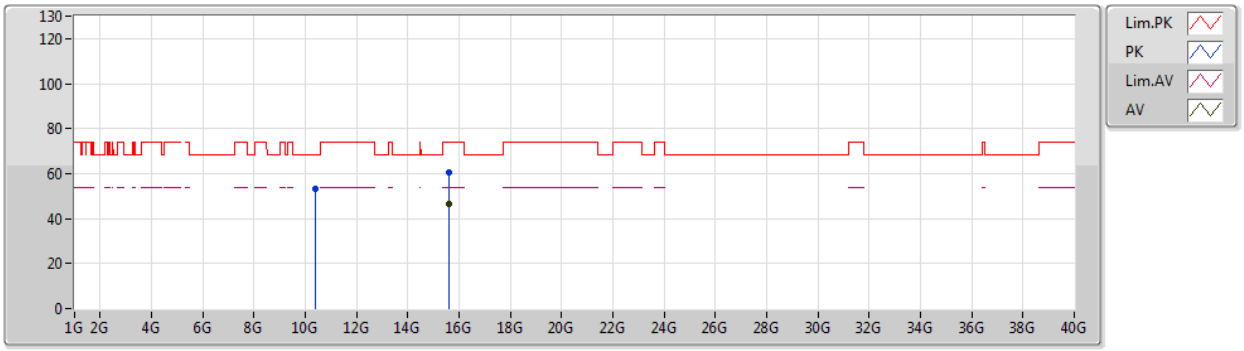
EUT Z_2TX_ANT 180
Setting 178
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.39982G	54.95	68.20	-13.25	12.22	3	Vertical	34	1.81	-	42.73
PK	15.60294G	60.54	74.00	-13.46	14.18	3	Vertical	4	1.80	-	46.36
AV	15.5943G	46.82	54.00	-7.18	14.21	3	Vertical	4	1.80	-	32.61

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

04/11/2019



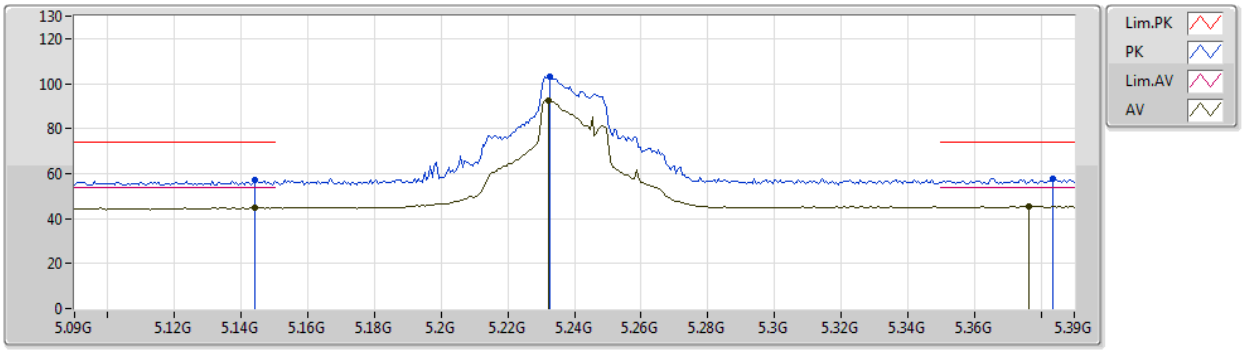
EUT Z_2TX_ANT 180
Setting 178
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.3871G	53.26	68.20	-14.94	12.21	3	Horizontal	145	1.85	-	41.05
PK	15.59238G	60.25	74.00	-13.75	14.21	3	Horizontal	259	1.55	-	46.04
AV	15.59844G	46.66	54.00	-7.34	14.18	3	Horizontal	259	1.55	-	32.48

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

02/11/2019



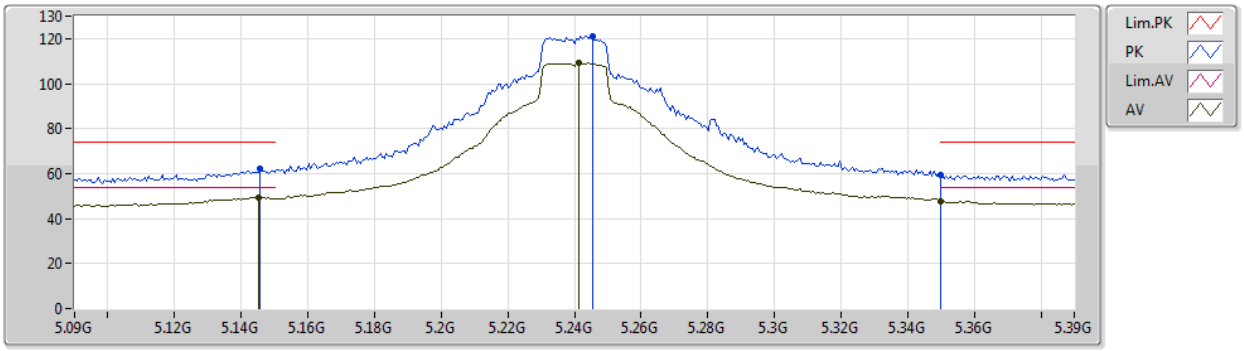
EUT Z_2TX_ANT 180
Setting 211
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.144G	57.06	74.00	-16.94	5.48	3	Vertical	238	1.41	-	51.58
AV	5.144G	44.86	54.00	-9.14	5.48	3	Vertical	238	1.41	-	39.38
PK	5.2328G	103.14	Inf	-Inf	5.69	3	Vertical	238	1.41	-	97.45
AV	5.2322G	92.47	Inf	-Inf	5.68	3	Vertical	238	1.41	-	86.79
PK	5.3834G	57.79	74.00	-16.21	5.83	3	Vertical	238	1.41	-	51.96
AV	5.3762G	45.52	54.00	-8.48	5.83	3	Vertical	238	1.41	-	39.69

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

02/11/2019



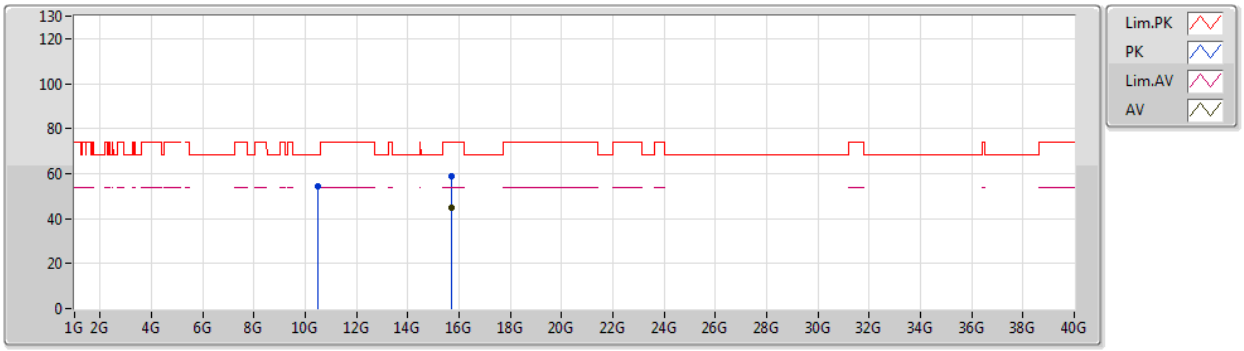
EUT Z_2TX_ANT 180
Setting 211
03-E-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1458G	62.06	74.00	-11.94	5.50	3	Horizontal	93	2.26	-	56.56
AV	5.1452G	49.46	54.00	-4.54	5.50	3	Horizontal	93	2.26	-	43.96
PK	5.2454G	121.24	Inf	-Inf	5.71	3	Horizontal	93	2.26	-	115.53
AV	5.2412G	109.16	Inf	-Inf	5.70	3	Horizontal	93	2.26	-	103.46
PK	5.35G	59.53	74.00	-14.47	5.81	3	Horizontal	93	2.26	-	53.72
AV	5.35G	47.73	54.00	-6.27	5.81	3	Horizontal	93	2.26	-	41.92

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

02/11/2019



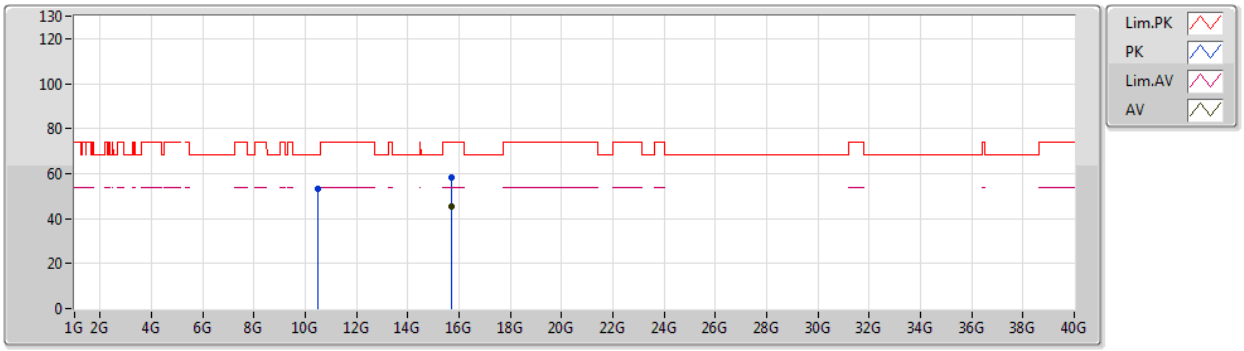
EUT Z_2TX_ANT 180
Setting 211
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.47106G	54.21	68.20	-13.99	12.28	3	Vertical	326	2.88	-	41.93
PK	15.72174G	58.82	74.00	-15.18	13.74	3	Vertical	21	2.50	-	45.08
AV	15.7191G	45.07	54.00	-8.93	13.75	3	Vertical	21	2.50	-	31.32

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

02/11/2019



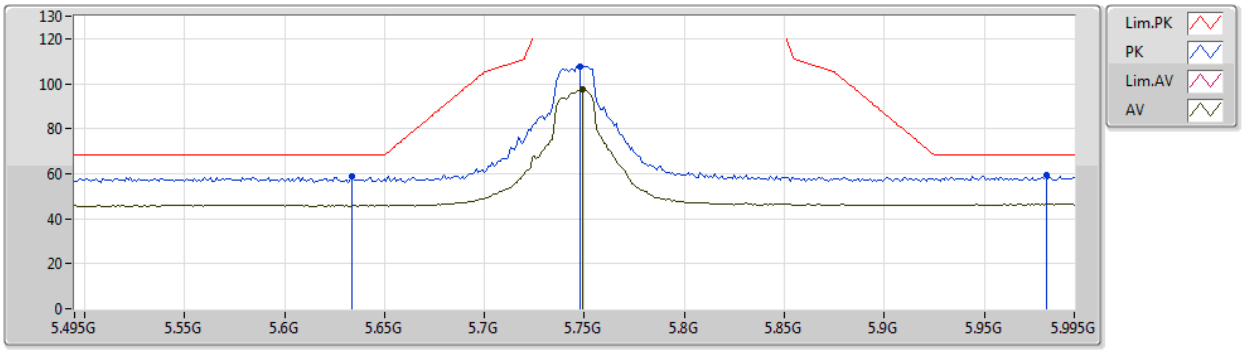
EUT Z_2TX_ANT 180
Setting 211
03-E-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	10.47616G	53.51	68.20	-14.69	12.29	3	Horizontal	253	1.74	-	41.22
PK	15.7062G	58.43	74.00	-15.57	13.80	3	Horizontal	146	2.47	-	44.63
AV	15.71508G	45.12	54.00	-8.88	13.76	3	Horizontal	146	2.47	-	31.36

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

02/11/2019



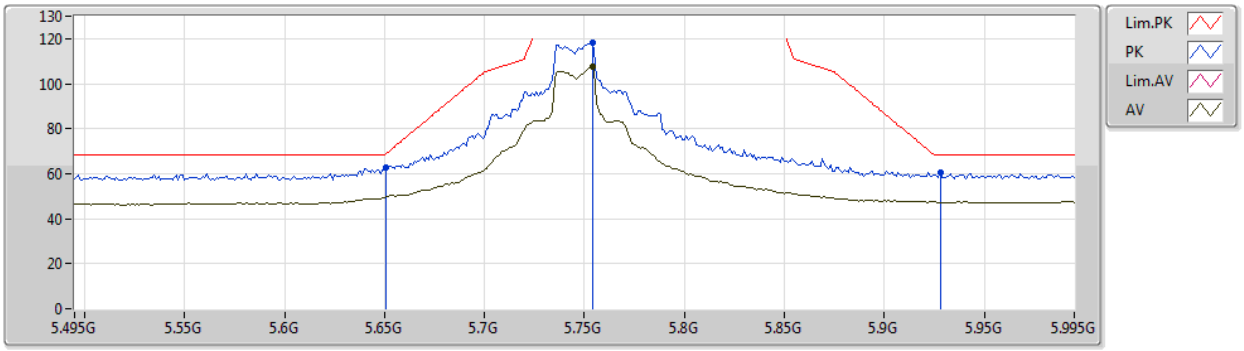
EUT Z_2TX_ANT 180
Setting 150
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.634G	58.84	68.20	-9.36	6.10	3	Vertical	170	2.96	-	52.74
PK	5.748G	107.83	Inf	-Inf	5.86	3	Vertical	170	2.96	-	101.97
AV	5.749G	97.33	Inf	-Inf	5.86	3	Vertical	170	2.96	-	91.47
PK	5.981G	59.49	68.20	-8.71	6.34	3	Vertical	170	2.96	-	53.15

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

02/11/2019



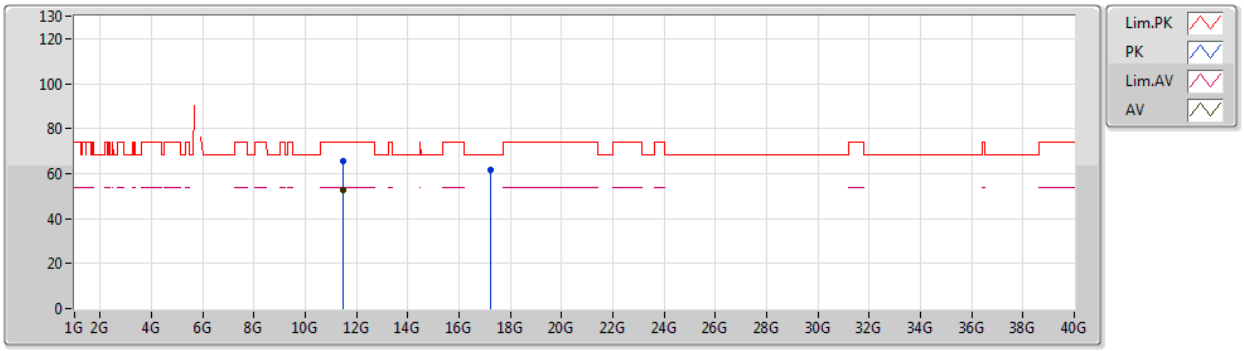
EUT Z_2TX_ANT 180
Setting 150
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.651G	62.87	68.94	-6.07	6.04	3	Horizontal	281	2.56	-	56.83
PK	5.754G	118.11	Inf	-Inf	5.85	3	Horizontal	281	2.56	-	112.26
AV	5.754G	107.38	Inf	-Inf	5.85	3	Horizontal	281	2.56	-	101.53
PK	5.928G	60.59	68.20	-7.61	6.15	3	Horizontal	281	2.56	-	54.44

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

02/11/2019



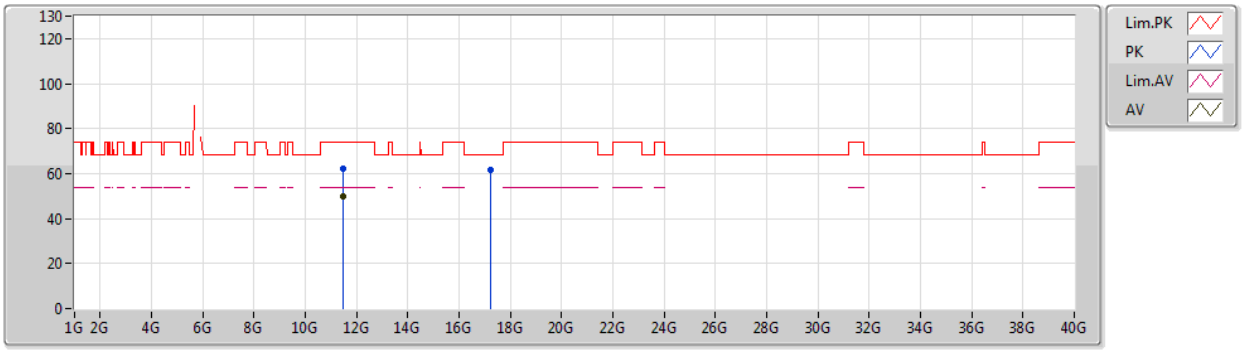
EUT Z_2TX_ANT 180
Setting 150
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.49432G	65.71	74.00	-8.29	13.01	3	Vertical	153	1.30	-	52.70
AV	11.496G	52.85	54.00	-1.15	13.01	3	Vertical	153	1.30	-	39.84
PK	17.23548G	61.50	68.20	-6.70	17.26	3	Vertical	194	1.23	-	44.24

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

02/11/2019



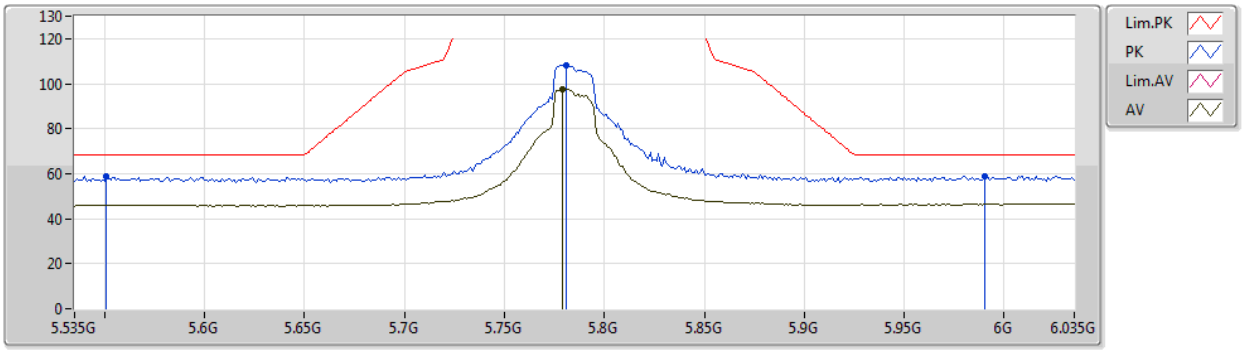
EUT Z_2TX_ANT 180
Setting 150
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.4952G	62.40	74.00	-11.60	13.01	3	Horizontal	135	1.83	-	49.39
AV	11.49392G	49.75	54.00	-4.25	13.01	3	Horizontal	135	1.83	-	36.74
PK	17.23444G	61.75	68.20	-6.45	17.33	3	Horizontal	326	1.82	-	44.42

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

02/11/2019



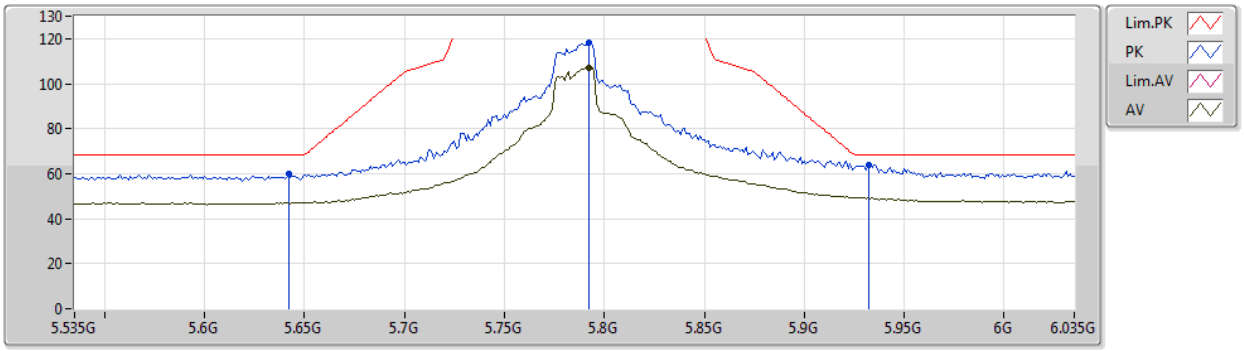
EUT Z_2TX_ANT 180
Setting 150
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.551G	58.95	68.20	-9.25	6.14	3	Vertical	175	2.25	-	52.81
PK	5.781G	108.21	Inf	-Inf	5.80	3	Vertical	175	2.25	-	102.41
AV	5.779G	97.66	Inf	-Inf	5.81	3	Vertical	175	2.25	-	91.85
PK	5.99G	58.95	68.20	-9.25	6.38	3	Vertical	175	2.25	-	52.57

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

02/11/2019



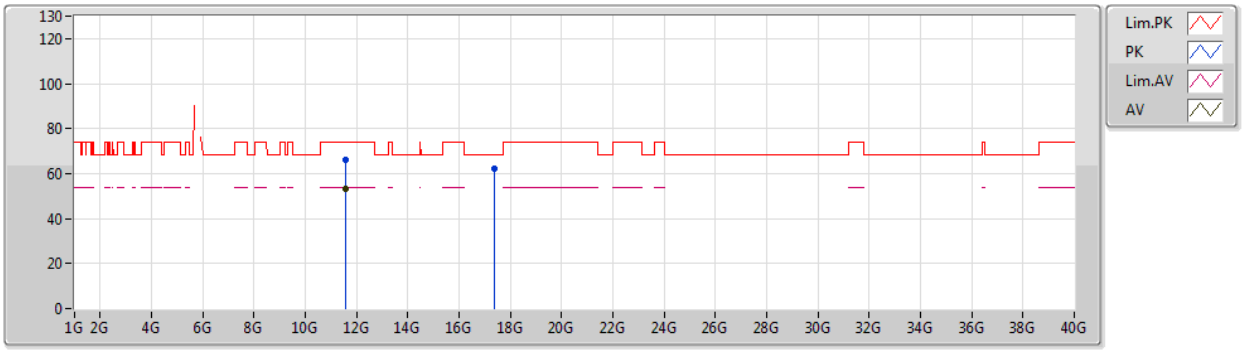
EUT Z_2TX_ANT 180
Setting 150
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.642G	59.92	68.20	-8.28	6.08	3	Horizontal	277	2.23	-	53.84
PK	5.792G	118.23	Inf	-Inf	5.79	3	Horizontal	277	2.23	-	112.44
AV	5.792G	107.30	Inf	-Inf	5.79	3	Horizontal	277	2.23	-	101.51
PK	5.932G	63.95	68.20	-4.25	6.18	3	Horizontal	277	2.23	-	57.77

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

02/11/2019



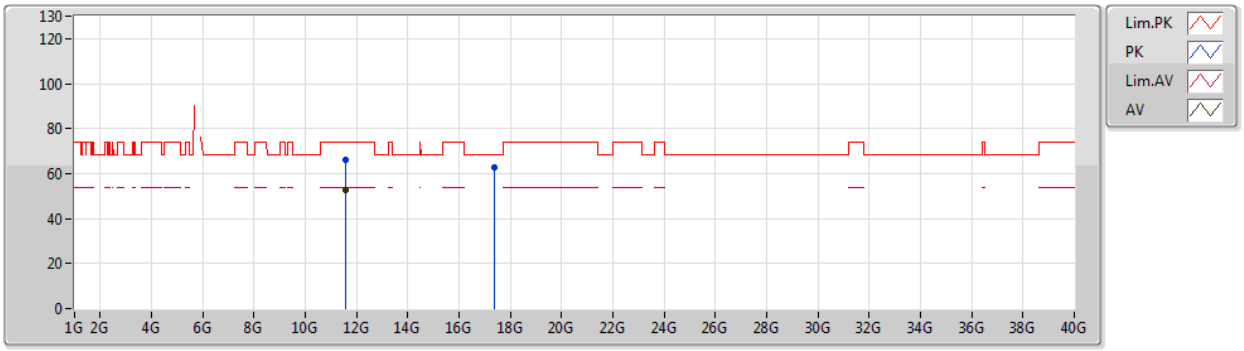
EUT Z_2TX_ANT 180
Setting 150
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.57376G	66.37	74.00	-7.63	13.04	3	Vertical	101	1.90	-	53.33
AV	11.57192G	53.26	54.00	-0.74	13.04	3	Vertical	101	1.90	-	40.22
PK	17.35548G	62.39	68.20	-5.81	17.95	3	Vertical	115	1.33	-	44.44

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

02/11/2019



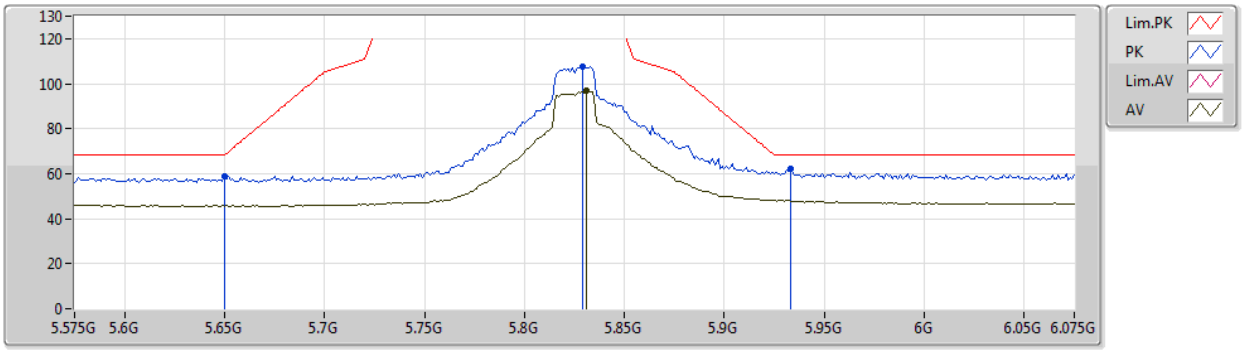
EUT Z_2TX_ANT 180
Setting 150
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.57416G	65.98	74.00	-8.02	13.04	3	Horizontal	29	2.79	-	52.94
AV	11.57216G	52.40	54.00	-1.60	13.04	3	Horizontal	29	2.79	-	39.36
PK	17.3566G	62.51	68.20	-5.69	17.96	3	Horizontal	348	1.83	-	44.55

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5825MHz_TX

02/11/2019



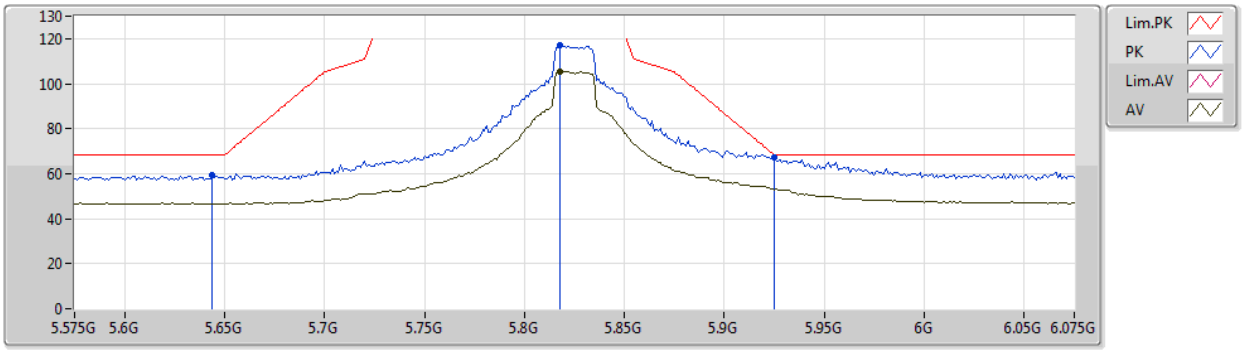
EUT Z_2TX_ANT 180
Setting 150
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.65G	58.66	68.20	-9.54	6.06	3	Vertical	228	2.98	-	52.60
PK	5.829G	107.70	Inf	-Inf	5.86	3	Vertical	228	2.98	-	101.84
AV	5.831G	96.73	Inf	-Inf	5.86	3	Vertical	228	2.98	-	90.87
PK	5.933G	61.94	68.20	-6.26	6.18	3	Vertical	228	2.98	-	55.76

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5825MHz_TX

02/11/2019



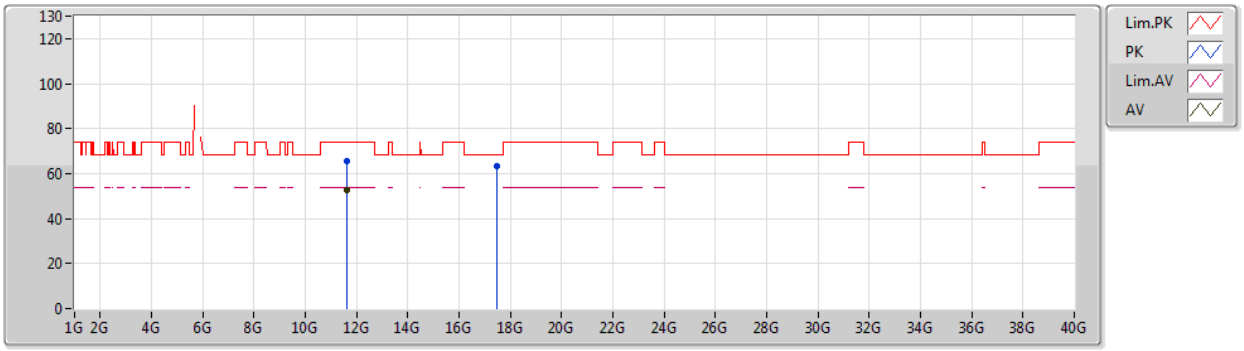
EUT Z_2TX_ANT 180
Setting 150
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.644G	59.12	68.20	-9.08	6.07	3	Horizontal	84	2.16	-	53.05
PK	5.818G	117.05	Inf	-Inf	5.83	3	Horizontal	84	2.16	-	111.22
AV	5.818G	105.42	Inf	-Inf	5.83	3	Horizontal	84	2.16	-	99.59
PK	5.925G	67.15	68.20	-1.05	6.15	3	Horizontal	84	2.16	-	61.00

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5825MHz_TX

02/11/2019



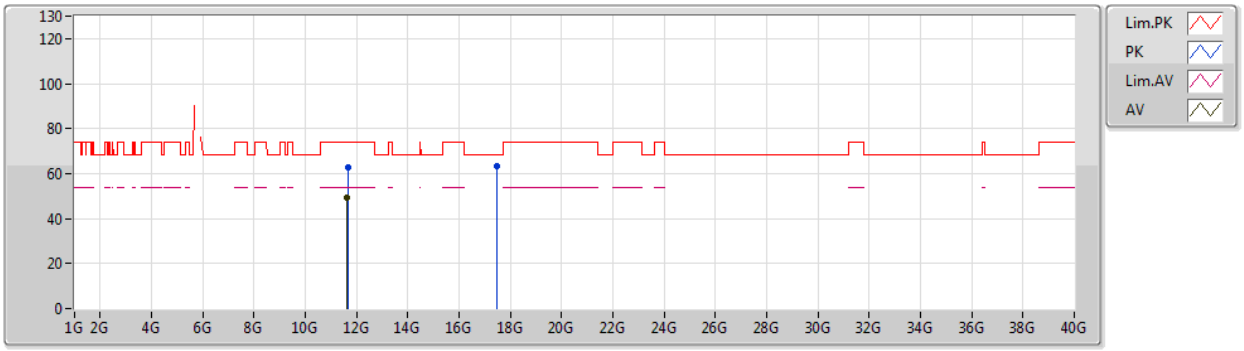
EUT Z_2TX_ANT 180
Setting 150
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.64216G	65.30	74.00	-8.70	13.08	3	Vertical	67	1.71	-	52.22
AV	11.64464G	52.91	54.00	-1.09	13.08	3	Vertical	67	1.71	-	39.83
PK	17.47996G	63.44	68.20	-4.76	18.59	3	Vertical	205	1.30	-	44.85

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5825MHz_TX

02/11/2019



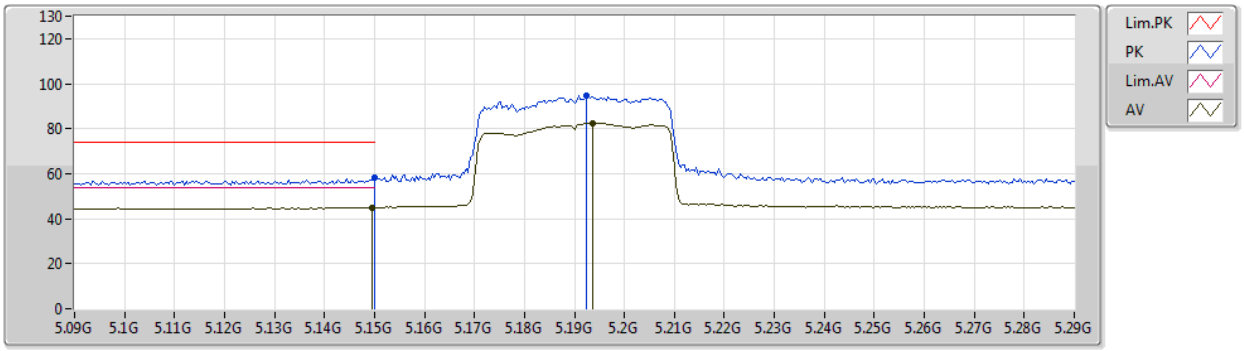
EUT Z_2TX_ANT 180
Setting 150
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
AV	11.6396G	49.49	54.00	-4.51	13.08	3	Horizontal	193	2.74	-	36.41
PK	11.6524G	62.59	74.00	-11.41	13.09	3	Horizontal	193	2.74	-	49.50
PK	17.47444G	63.42	68.20	-4.78	18.56	3	Horizontal	83	1.60	-	44.86

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

02/11/2019



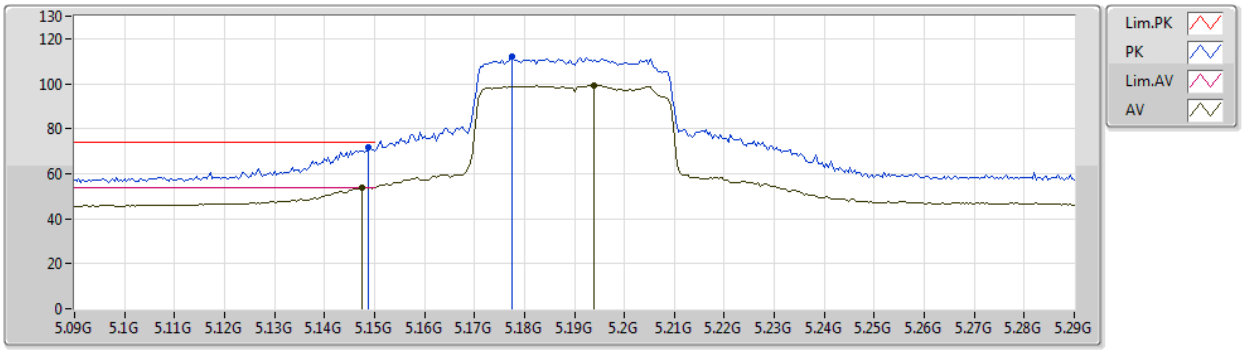
EUT Z_2TX_ANT 180
Setting 35
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.15G	58.11	74.00	-15.89	5.50	3	Vertical	185	1.81	-	52.61
AV	5.1496G	45.07	54.00	-8.93	5.50	3	Vertical	185	1.81	-	39.57
PK	5.1924G	94.83	Inf	-Inf	5.62	3	Vertical	185	1.81	-	89.21
AV	5.1936G	82.36	Inf	-Inf	5.62	3	Vertical	185	1.81	-	76.74

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

02/11/2019



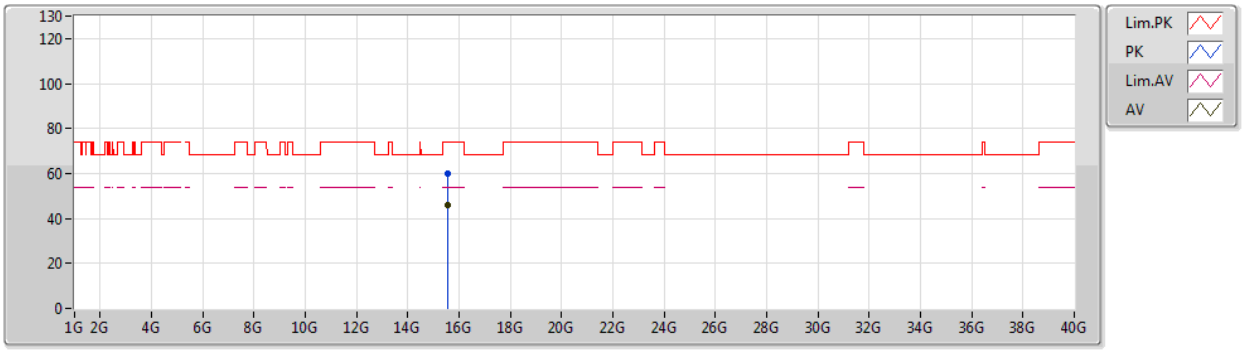
EUT Z_2TX_ANT 180
Setting 35
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1488G	71.88	74.00	-2.12	5.50	3	Horizontal	265	2.39	-	66.38
AV	5.1476G	53.77	54.00	-0.23	5.50	3	Horizontal	265	2.39	-	48.27
PK	5.1776G	112.11	Inf	-Inf	5.58	3	Horizontal	265	2.39	-	106.53
AV	5.194G	99.22	Inf	-Inf	5.62	3	Horizontal	265	2.39	-	93.60

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

02/11/2019



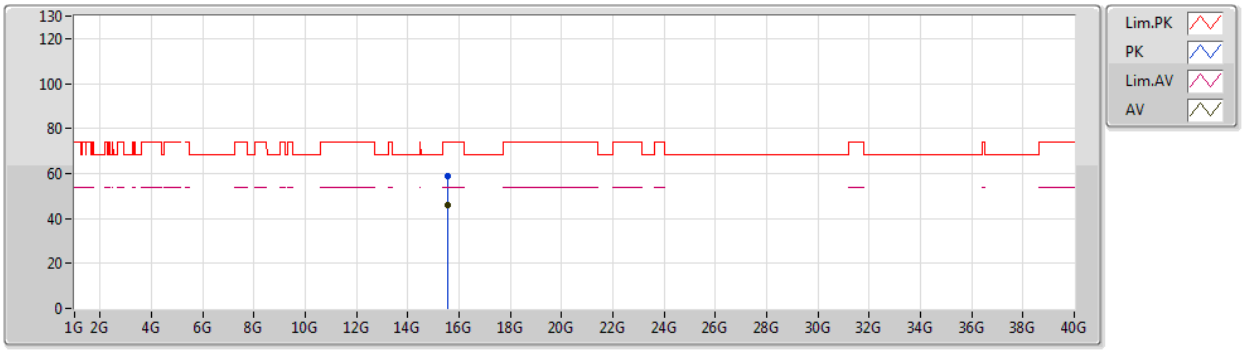
EUT Z_2TX_ANT 180
Setting 35
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	15.57348G	59.99	74.00	-14.01	14.28	3	Vertical	324	2.15	-	45.71
AV	15.57614G	45.91	54.00	-8.09	14.26	3	Vertical	324	2.15	-	31.65

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

02/11/2019



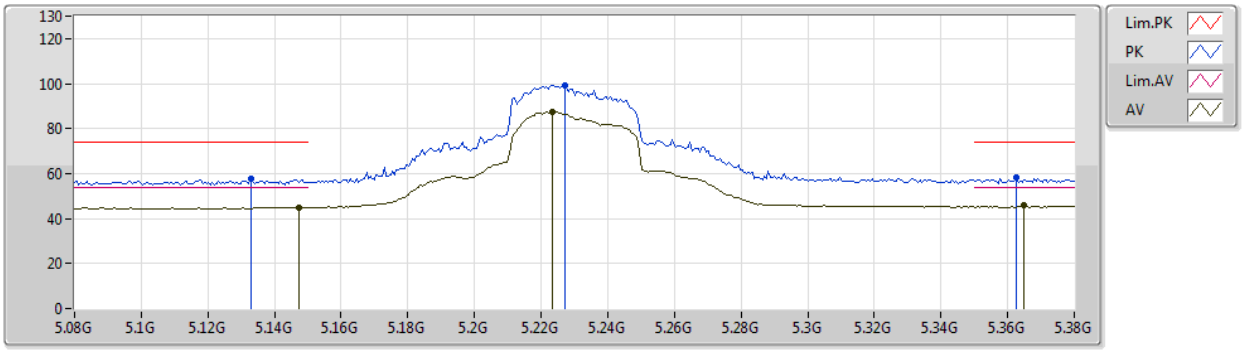
EUT Z_2TX_ANT 180
Setting 35
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	15.56298G	59.08	74.00	-14.92	14.32	3	Horizontal	117	1.73	-	44.76
AV	15.576G	45.98	54.00	-8.02	14.26	3	Horizontal	117	1.73	-	31.72

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

02/11/2019



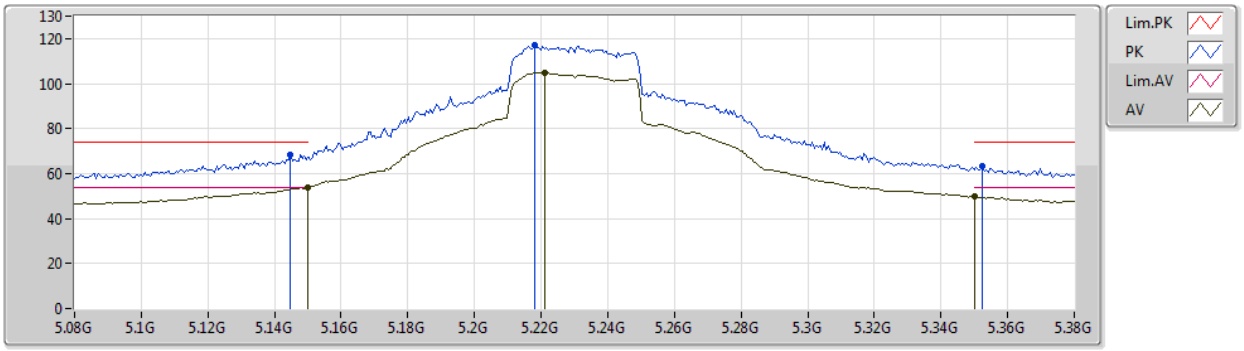
EUT Z_2TX_ANT 180
Setting 150
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1328G	57.68	74.00	-16.32	5.45	3	Vertical	217	1.11	-	52.23
AV	5.1472G	44.89	54.00	-9.11	5.50	3	Vertical	217	1.11	-	39.39
PK	5.227G	99.03	Inf	-Inf	5.68	3	Vertical	217	1.11	-	93.35
AV	5.2234G	87.21	Inf	-Inf	5.68	3	Vertical	217	1.11	-	81.53
PK	5.3626G	58.01	74.00	-15.99	5.81	3	Vertical	217	1.11	-	52.20
AV	5.365G	45.68	54.00	-8.32	5.81	3	Vertical	217	1.11	-	39.87

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

02/11/2019



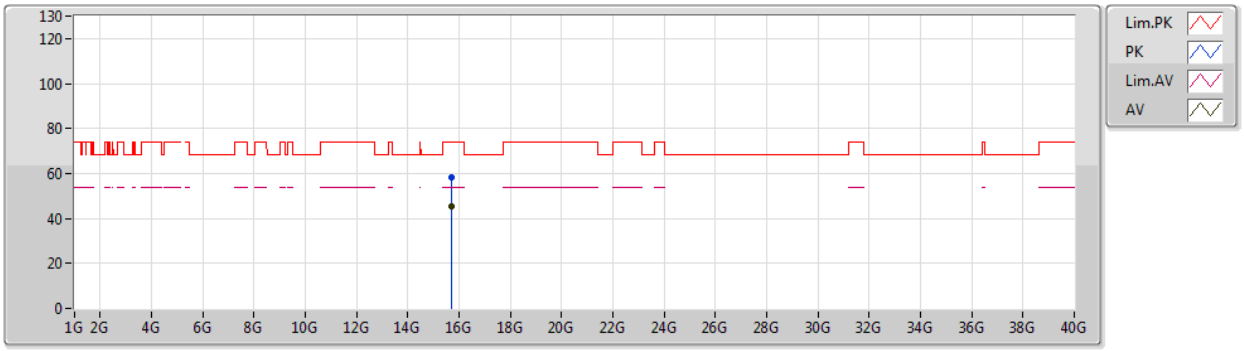
EUT Z_2TX_ANT 180
Setting 150
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1448G	68.53	74.00	-5.47	5.49	3	Horizontal	264	2.64	-	63.04
AV	5.15G	53.80	54.00	-0.20	5.50	3	Horizontal	264	2.64	-	48.30
PK	5.218G	117.05	Inf	-Inf	5.67	3	Horizontal	264	2.64	-	111.38
AV	5.221G	104.81	Inf	-Inf	5.67	3	Horizontal	264	2.64	-	99.14
PK	5.3524G	63.50	74.00	-10.50	5.81	3	Horizontal	264	2.64	-	57.69
AV	5.35G	49.66	54.00	-4.34	5.81	3	Horizontal	264	2.64	-	43.85

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

02/11/2019



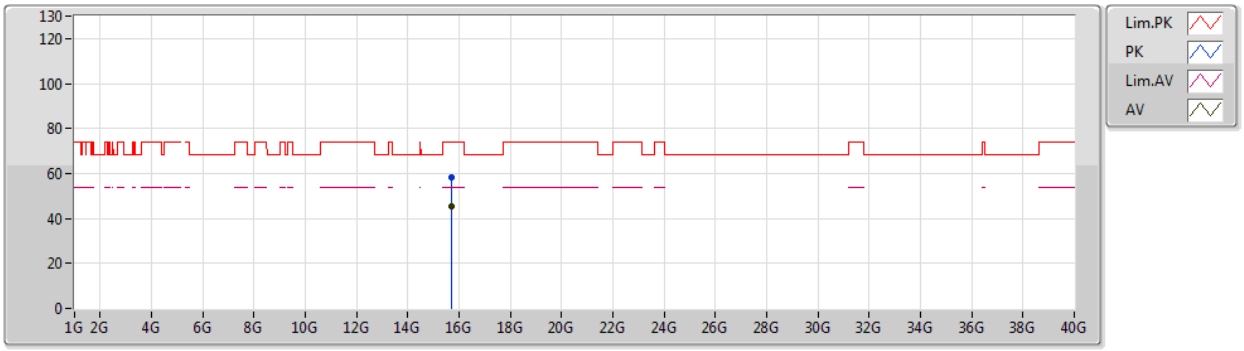
EUT Z_2TX_ANT 180
Setting 150
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	15.6939G	58.55	74.00	-15.45	13.85	3	Vertical	302	1.62	-	44.70
AV	15.6935G	45.23	54.00	-8.77	13.85	3	Vertical	302	1.62	-	31.38

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

02/11/2019



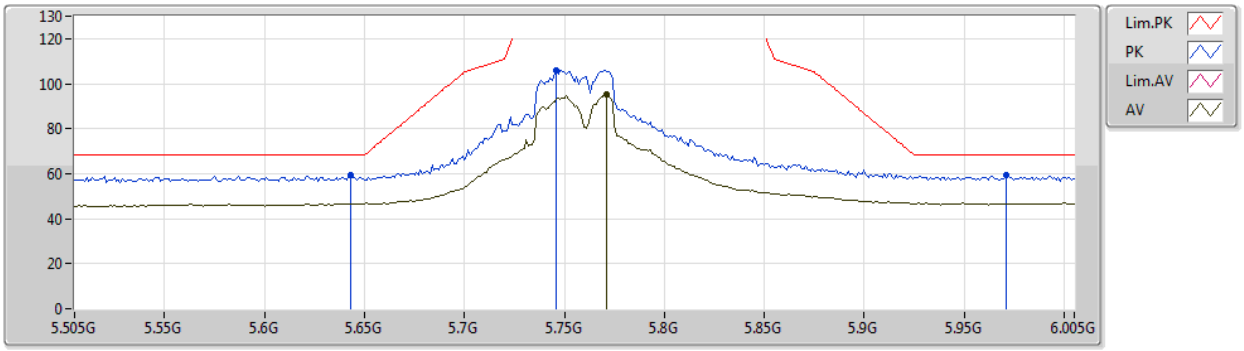
EUT Z_2TX_ANT 180
Setting 150
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	15.69156G	58.41	74.00	-15.59	13.86	3	Horizontal	24	1.41	-	44.55
AV	15.6913G	45.26	54.00	-8.74	13.86	3	Horizontal	24	1.41	-	31.40

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

02/11/2019



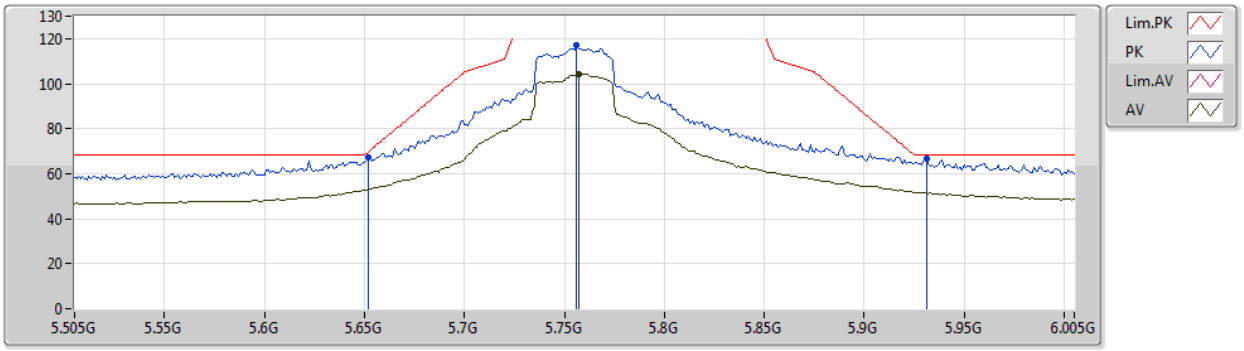
EUT Z_2TX_ANT 180
Setting 150
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.643G	59.25	68.20	-8.95	6.07	3	Vertical	167	2.93	-	53.18
PK	5.746G	105.95	Inf	-Inf	5.86	3	Vertical	167	2.93	-	100.09
AV	5.771G	95.30	Inf	-Inf	5.83	3	Vertical	167	2.93	-	89.47
PK	5.971G	59.28	68.20	-8.92	6.31	3	Vertical	167	2.93	-	52.97

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

02/11/2019



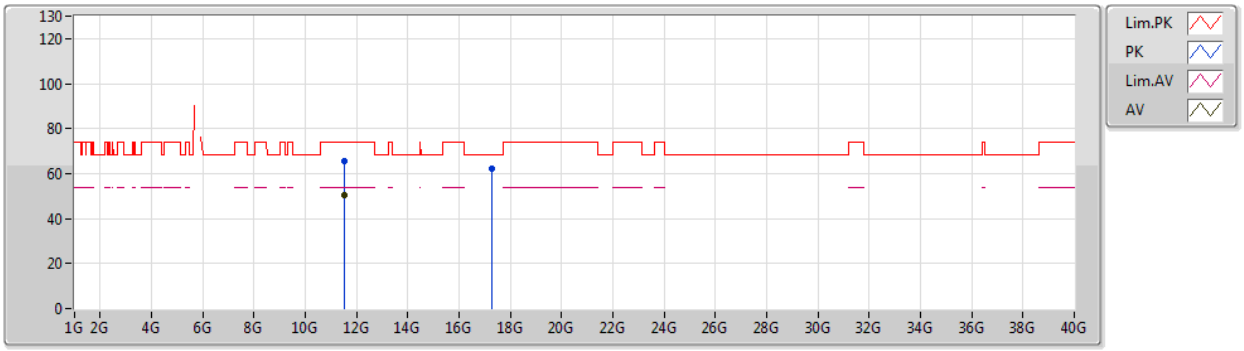
EUT Z_2TX_ANT 180
Setting 150
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.652G	67.40	69.68	-2.28	6.04	3	Horizontal	278	2.38	-	61.36
PK	5.756G	116.84	Inf	-Inf	5.85	3	Horizontal	278	2.38	-	110.99
AV	5.757G	104.50	Inf	-Inf	5.85	3	Horizontal	278	2.38	-	98.65
PK	5.931G	66.70	68.20	-1.50	6.16	3	Horizontal	278	2.38	-	60.54

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

02/11/2019



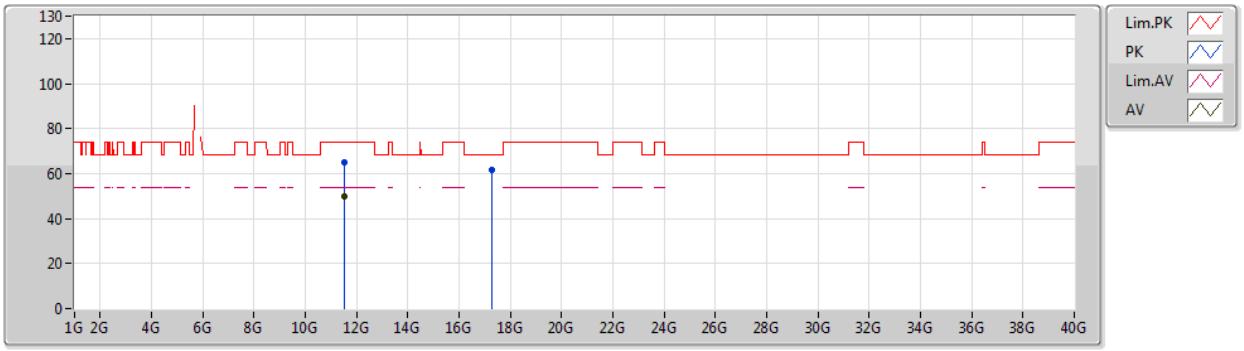
EUT Z_2TX_ANT 180
Setting 150
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.51G	65.77	74.00	-8.23	13.01	3	Vertical	154	2.24	-	52.76
AV	11.51038G	50.21	54.00	-3.79	13.01	3	Vertical	154	2.24	-	37.20
PK	17.26796G	62.07	68.20	-6.13	17.51	3	Vertical	44	1.12	-	44.56

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

02/11/2019

5755MHz_TX



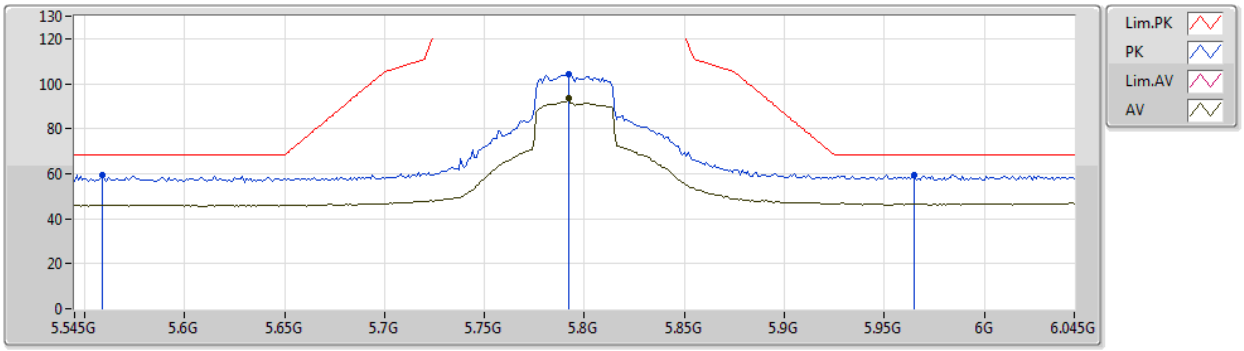
EUT Z_2TX_ANT 180
Setting 150
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.51G	65.13	74.00	-8.87	13.01	3	Horizontal	29	2.96	-	52.12
AV	11.51032G	49.79	54.00	-4.21	13.01	3	Horizontal	29	2.96	-	36.78
PK	17.26604G	61.60	68.20	-6.60	17.50	3	Horizontal	303	1.53	-	44.10

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

02/11/2019



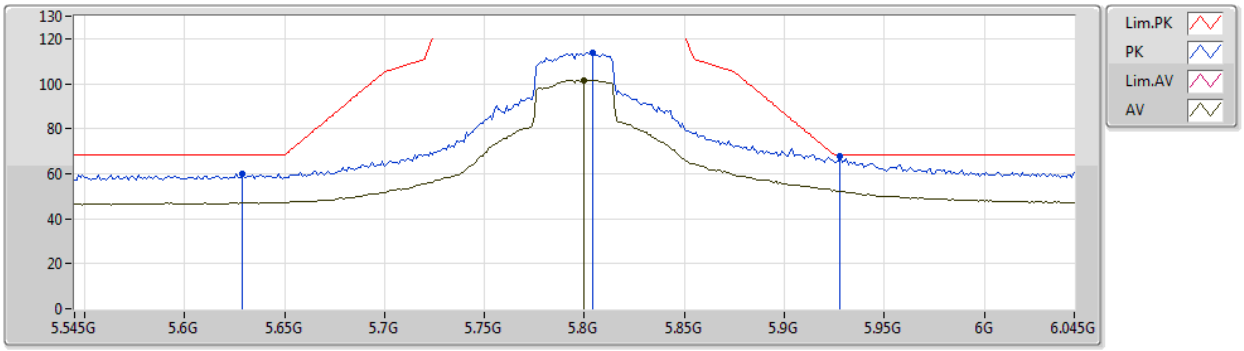
EUT Z_2TX_ANT 180
Setting 126
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.559G	59.26	68.20	-8.94	6.14	3	Vertical	179	2.50	-	53.12
PK	5.792G	104.01	Inf	-Inf	5.79	3	Vertical	179	2.50	-	98.22
AV	5.792G	93.33	Inf	-Inf	5.79	3	Vertical	179	2.50	-	87.54
PK	5.965G	59.43	68.20	-8.77	6.29	3	Vertical	179	2.50	-	53.14

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

02/11/2019



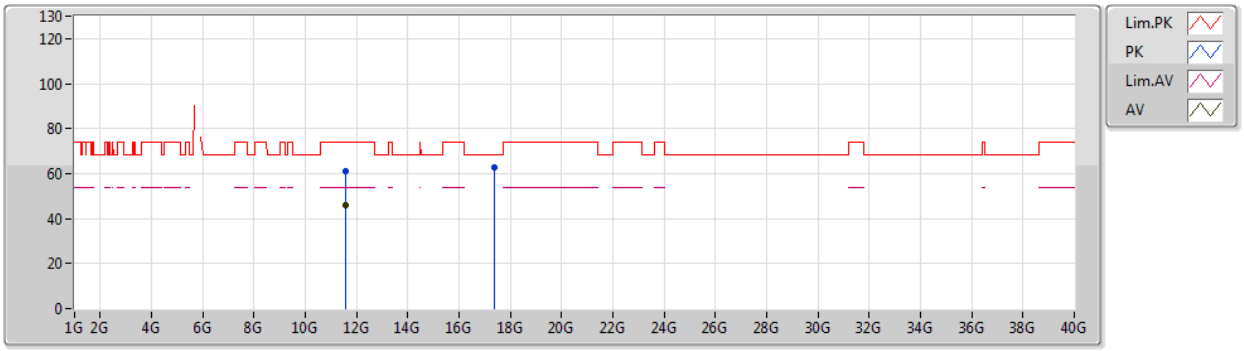
EUT Z_2TX_ANT 180
Setting 126
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.629G	59.99	68.20	-8.21	6.10	3	Horizontal	277	2.30	-	53.89
PK	5.804G	113.61	Inf	-Inf	5.79	3	Horizontal	277	2.30	-	107.82
AV	5.8G	101.60	Inf	-Inf	5.78	3	Horizontal	277	2.30	-	95.82
PK	5.928G	67.59	68.20	-0.61	6.15	3	Horizontal	277	2.30	-	61.44

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

02/11/2019



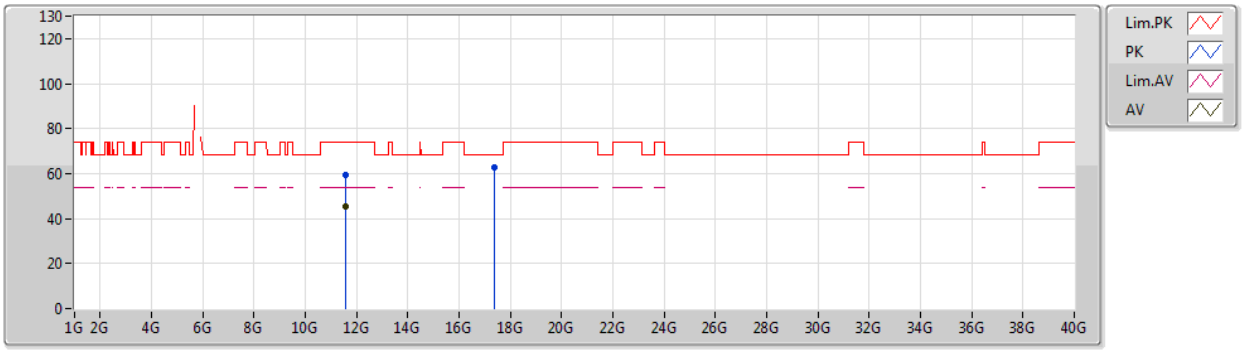
EUT Z_2TX_ANT 180
Setting 126
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.59008G	61.21	74.00	-12.79	13.05	3	Vertical	51	1.06	-	48.16
AV	11.59008G	46.17	54.00	-7.83	13.05	3	Vertical	51	1.06	-	33.12
PK	17.38532G	63.00	68.20	-5.20	18.11	3	Vertical	79	2.31	-	44.89

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

02/11/2019



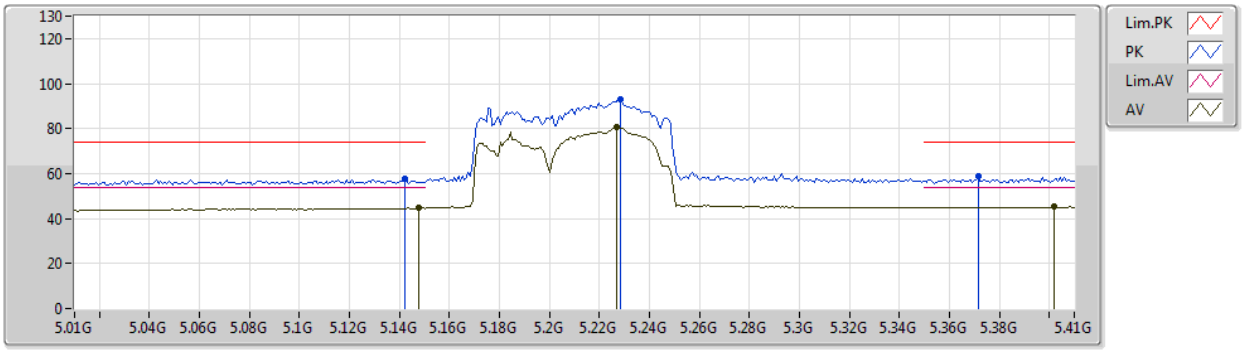
EUT Z_2TX_ANT 180
Setting 126
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.59008G	59.46	74.00	-14.54	13.05	3	Horizontal	29	2.72	-	46.41
AV	11.59076G	45.18	54.00	-8.82	13.05	3	Horizontal	29	2.72	-	32.13
PK	17.3851G	62.61	68.20	-5.59	18.10	3	Horizontal	294	2.08	-	44.51

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

02/11/2019



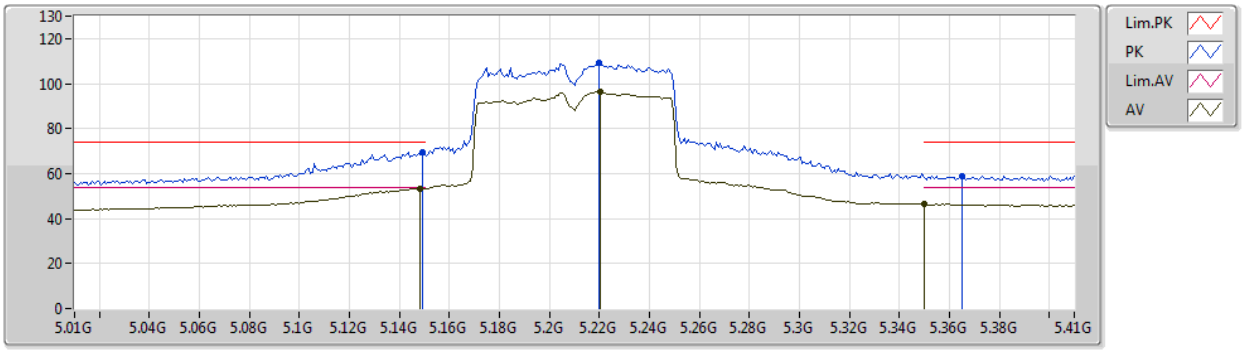
EUT Z_2TX_ANT 180
Setting 42
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.142G	57.50	74.00	-16.50	5.48	3	Vertical	229	1.01	-	52.02
AV	5.1476G	44.63	54.00	-9.37	5.50	3	Vertical	229	1.01	-	39.13
PK	5.2284G	93.28	Inf	-Inf	5.69	3	Vertical	229	1.01	-	87.59
AV	5.2268G	80.47	Inf	-Inf	5.68	3	Vertical	229	1.01	-	74.79
PK	5.3716G	58.58	74.00	-15.42	5.82	3	Vertical	229	1.01	-	52.76
AV	5.402G	45.16	54.00	-8.84	5.84	3	Vertical	229	1.01	-	39.32

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

02/11/2019



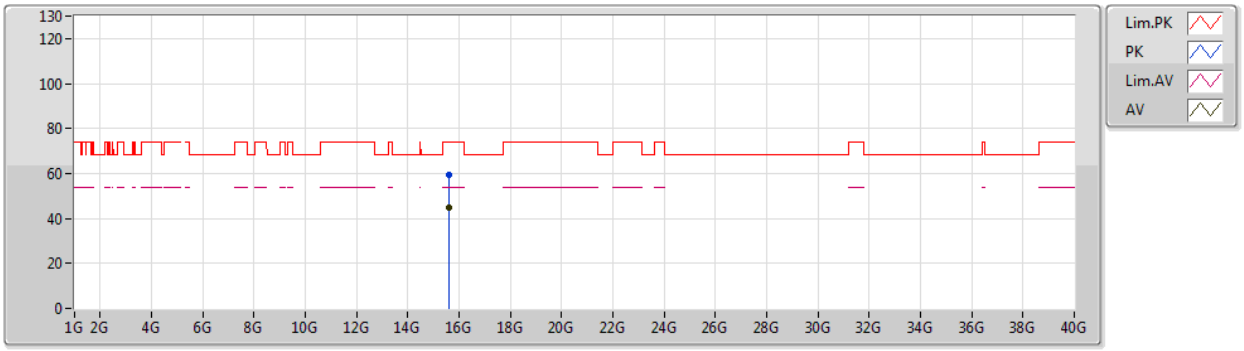
EUT Z_2TX_ANT 180
Setting 42
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.1492G	69.66	74.00	-4.34	5.50	3	Horizontal	262	2.60	-	64.16
AV	5.1484G	53.21	54.00	-0.79	5.50	3	Horizontal	262	2.60	-	47.71
PK	5.2196G	109.27	Inf	-Inf	5.67	3	Horizontal	262	2.60	-	103.60
AV	5.2204G	96.50	Inf	-Inf	5.67	3	Horizontal	262	2.60	-	90.83
PK	5.3652G	59.05	74.00	-14.95	5.82	3	Horizontal	262	2.60	-	53.23
AV	5.35G	46.36	54.00	-7.64	5.81	3	Horizontal	262	2.60	-	40.55

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

02/11/2019



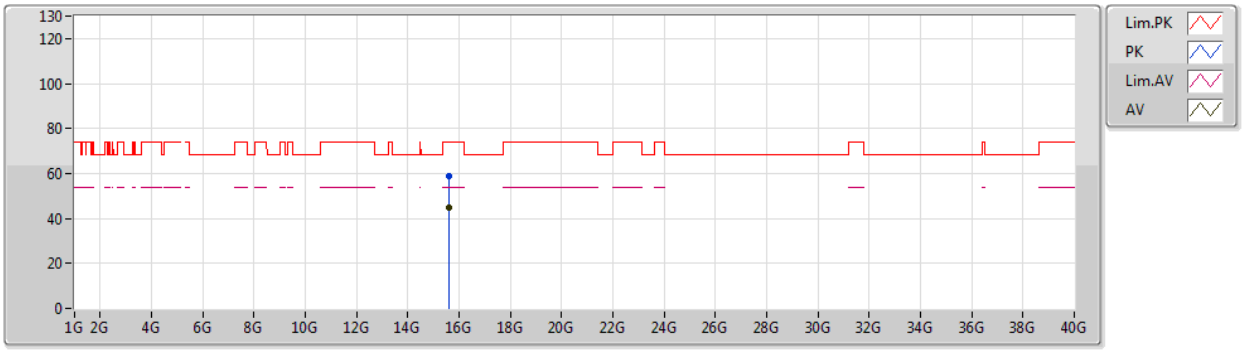
EUT Z_2TX_ANT 180
Setting 42
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	15.62904G	59.50	74.00	-14.50	14.08	3	Vertical	96	2.18	-	45.42
AV	15.62972G	44.89	54.00	-9.11	14.08	3	Vertical	96	2.18	-	30.81

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

02/11/2019



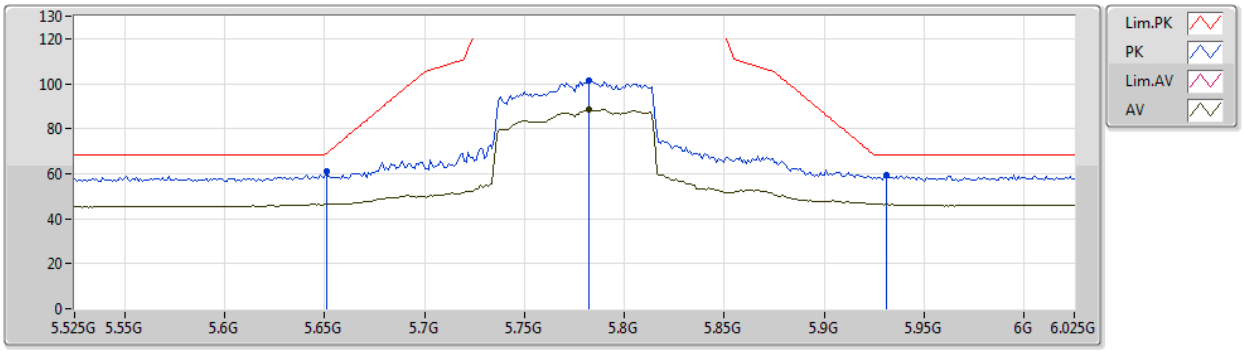
EUT Z_2TX_ANT 180
Setting 42
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	15.63048G	58.80	74.00	-15.20	14.08	3	Horizontal	68	1.16	-	44.72
AV	15.63008G	45.06	54.00	-8.94	14.08	3	Horizontal	68	1.16	-	30.98

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

02/11/2019



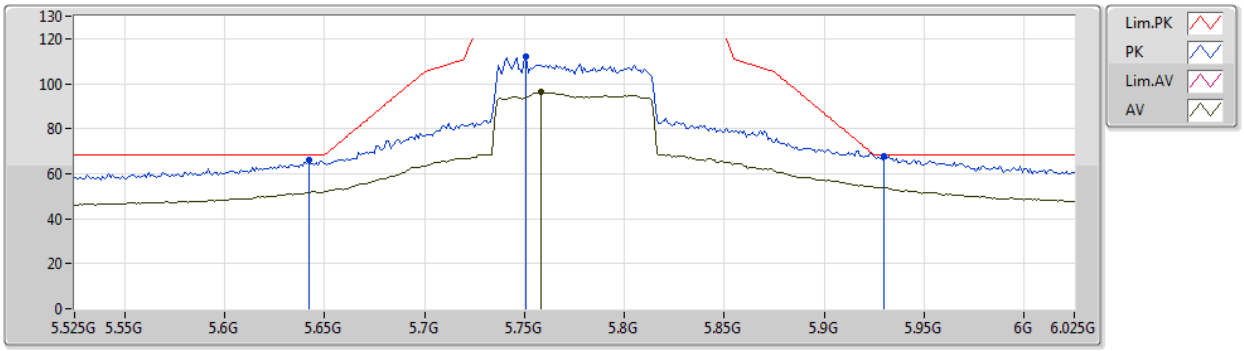
EUT Z_2TX_ANT 180
Setting 75
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.651G	60.90	68.94	-8.04	6.04	3	Vertical	177	2.52	-	54.86
PK	5.782G	101.22	Inf	-Inf	5.80	3	Vertical	177	2.52	-	95.42
AV	5.782G	88.50	Inf	-Inf	5.80	3	Vertical	177	2.52	-	82.70
PK	5.931G	59.30	68.20	-8.90	6.16	3	Vertical	177	2.52	-	53.14

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

02/11/2019



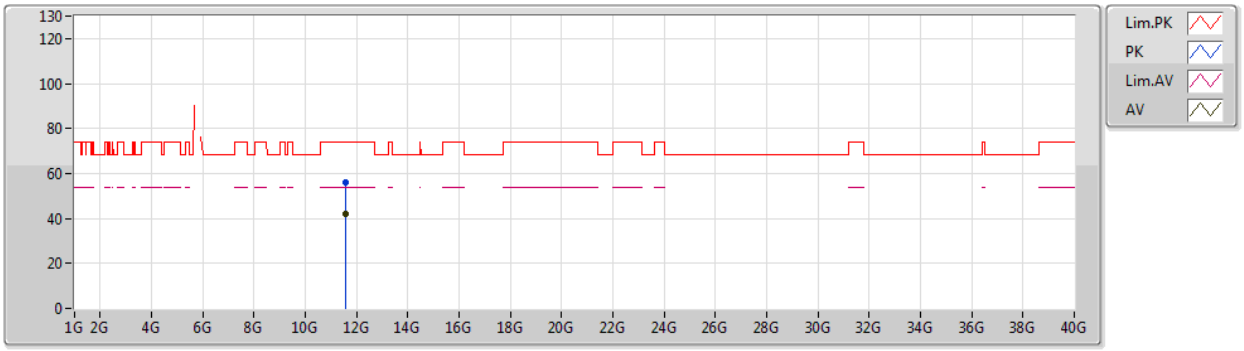
EUT Z_2TX_ANT 180
Setting 75
03-B-4-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	5.642G	66.15	68.20	-2.05	6.08	3	Horizontal	268	2.38	-	60.07
PK	5.751G	111.96	Inf	-Inf	5.85	3	Horizontal	268	2.38	-	106.11
AV	5.758G	96.16	Inf	-Inf	5.84	3	Horizontal	268	2.38	-	90.32
PK	5.93G	68.00	68.20	-0.20	6.16	3	Horizontal	268	2.38	-	61.84

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

02/11/2019



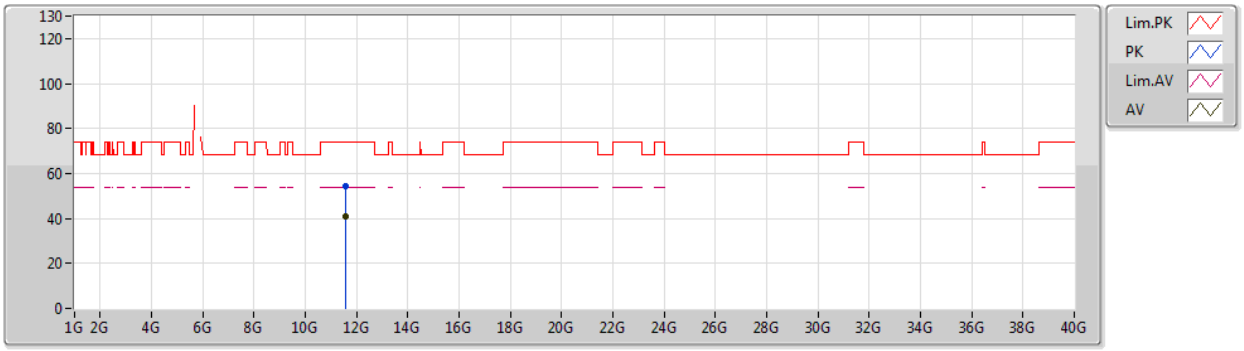
EUT Z_2TX_ANT 180
Setting 75
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.55296G	56.23	74.00	-17.77	13.03	3	Vertical	99	1.89	-	43.20
AV	11.55216G	41.76	54.00	-12.24	13.03	3	Vertical	99	1.89	-	28.73

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

02/11/2019

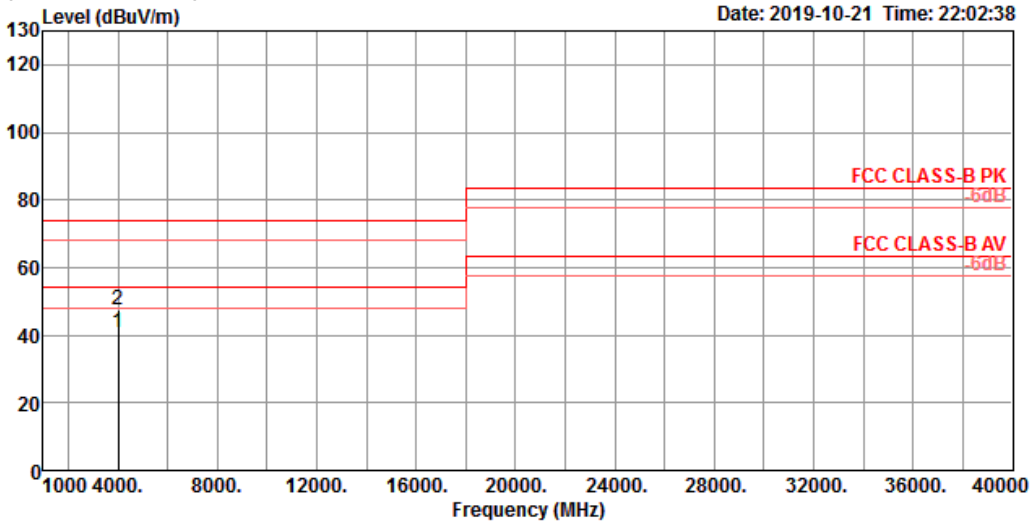


EUT Z_2TX_ANT 180
Setting 75
03-B-4
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	11.55448G	54.62	74.00	-19.38	13.03	3	Horizontal	107	1.24	-	41.59
AV	11.55412G	41.00	54.00	-13.00	13.03	3	Horizontal	107	1.24	-	27.97

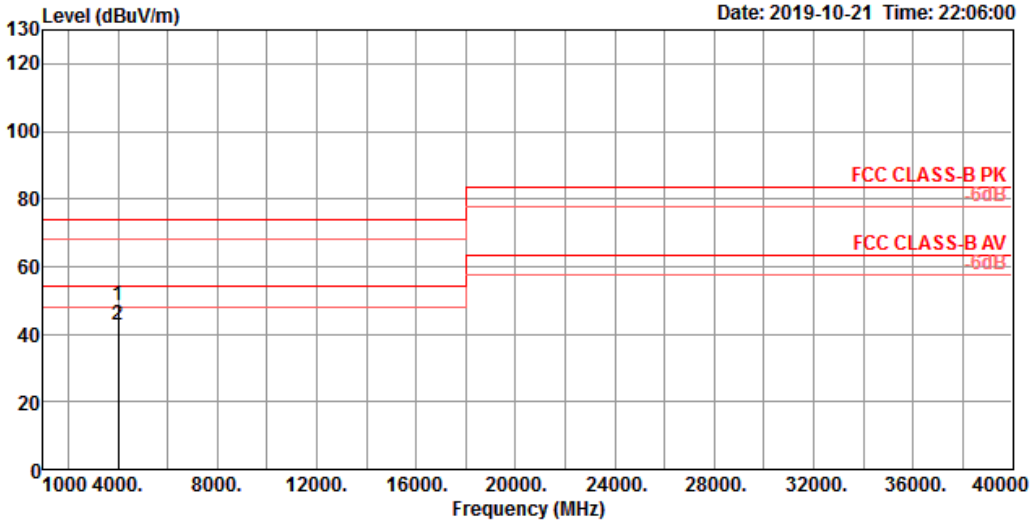
Test Mode	Mode 1	Frequency Range	1,000 MHz to 40,000 MHz

Vertical 1,000 MHz to 40,000 MHz



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4000.01	40.62	54.00	-13.38	38.92	4.40	29.50	32.20	115	246	Average	VERTICAL
2	4000.20	47.53	74.00	-26.47	45.83	4.40	29.50	32.20	115	246	Peak	VERTICAL

Horizontal 1,000 MHz to 40,000 MHz



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	3999.88	48.56	74.00	-25.44	46.86	4.40	29.50	32.20	100	193	Peak	HORIZONTAL
2	3999.99	42.71	54.00	-11.29	41.01	4.40	29.50	32.20	100	193	Average	HORIZONTAL