Testing Laboratory 1190

FCC RADIO TEST REPORT

FCC ID	:	K7S-03571
Equipment	:	AX3200 Dual Band Gigabit WiFi 6 Router
Brand Name	:	LINKSYS
Model Name	:	E8450, E8420
Applicant	:	Belkin International, Inc. 12045 East Waterfront Dr.Playa Vista California United States 90094
Standard	:	47 CFR FCC Part 15.407

The product was received on Jun. 22, 2020, and testing was started from Jun. 30, 2020 and completed on Jul. 20, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The 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: Cliff Chang

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
FR052055AB	01	Initial issue of report	Aug. 13, 2020

Summary of Test Result

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

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Viola Huang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), 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	4
5.15-5.25GHz	11n HT20	20	4
5.15-5.25GHz	11n HT20-BF	20	4
5.15-5.25GHz	11ac VHT20	20	4
5.15-5.25GHz	11ac VHT20-BF	20	4
5.15-5.25GHz	1ax HEW20	20	4
5.15-5.25GHz	11ax HEW20-BF	20	4
5.15-5.25GHz	11n HT40	40	4
5.15-5.25GHz	11n HT40-BF	40	4
5.15-5.25GHz	11ac VHT40	40	4
5.15-5.25GHz	11ac VHT40-BF	40	4
5.15-5.25GHz	1ax HEW40	40	4
5.15-5.25GHz	11ax HEW40-BF	40	4
5.15-5.25GHz	11ac VHT80	80	4
5.15-5.25GHz	11ac VHT80-BF	80	4
5.15-5.25GHz	1ax HEW80	80	4
5.15-5.25GHz	11ax HEW80-BF	80	4
5.725-5.85GHz	802.11a	20	4
5.725-5.85GHz	11n HT20	20	4
5.725-5.85GHz	11n HT20-BF	20	4
5.725-5.85GHz	11ac VHT20	20	4
5.725-5.85GHz	11ac VHT20-BF	20	4

Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	1ax HEW20	20	4
5.725-5.85GHz	11ax HEW20-BF	20	4
5.725-5.85GHz	11n HT40	40	4
5.725-5.85GHz	11n HT40-BF	40	4
5.725-5.85GHz	11ac VHT40	40	4
5.725-5.85GHz	11ac VHT40-BF	40	4
5.725-5.85GHz	1ax HEW40	40	4
5.725-5.85GHz	11ax HEW40-BF	40	4
5.725-5.85GHz	11ac VHT80	80	4
5.725-5.85GHz	11ac VHT80-BF	80	4
5.725-5.85GHz	1ax HEW80	80	4
5.725-5.85GHz	11ax HEW80-BF	80	4

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, modulation.
- HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)		
						2.4G	5G B1	5G B4
1	1	WNC	XKAM-N13	Dipole Antenna	U.FL	3.5	3.6	5.5
2	2	WNC	XKAM-N13	Dipole Antenna	U.FL	4.2	3.8	4.7
3	3	WNC	XKAM-N13	Dipole Antenna	U.FL	4.5	4.0	3.6
4	4	WNC	XKAM-N13	Dipole Antenna	U.FL	2.7	5.1	5.5
Beamforming Gain (dBi)						5.5	5.7	4.8

Note: The above information was declared by manufacturer.

For 2.4GHz function:

IEEE 802.11b/g/n/VHT (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For 5GHz function:

IEEE 802.11a/n/ac/ax (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.972	0.12	1.033m	1k
802.11ax HEW20-BF	0.975	0.11	3.785m	300
802.11ax HEW40-BF	0.853	0.69	1.963m	1k
802.11ax HEW80-BF	0.914	0.39	948u	3k

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for11n/11ac/11ax in 5GHz.			
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	MT7915 Version 0.0.2.15			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Model Name	USB Port
E8450	V
E8420	X

From the above models, model: E8450 was selected as representative model for the test and its data was recorded in this report.

1.1.6 Table Information for DDR and NAND Flash

The detail information for DDR and NAND Flash is as following:

Item	DDR		NAND Flash	
	Brand Name	Model Name	Brand Name	Model Name
Main source	Winbond	W634GG6NB-12	Fidelix	FM35Q1GA-IB
Second source	KINGSTON	D2516ECMDXGJD-U	Winbond	W25N01GVZEIG

The EUT has four types, which are identical to each other in all aspects except for the following table:

EUT	DDR	NAND Flash
1	Main source	Main source
2	Main source	Second source
3	Second source	Main source
4	Second source	Second source

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

The following reference test guidance is not within the scope of accreditation of TAF.

- 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	Serway Li	25.9~27.1°C / 60~62%	Jul. 04, 2020 ~ Jul. 14, 2020
Radiated below 1GHz	03CH05-CB	JN Du	27.3~28.5°C / 58~60%	Jul. 17, 2020
Radiated above 1GHz	03CH02-CB	JN Du	29.5~30.9°C / 40~42%	Jul. 02, 2020 ~ Jul. 03, 2020
Radiated (For co-location)	03CH02-CB	JN Du	26.9~28.4°C / 56~60%	Jul. 20, 2020
AC Conduction	CO01-CB	Ryo Fan	22~23°C / 62~63%	Jun. 30, 2020 ~ Jul. 14, 2020

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)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.6 dB	Confidence levels of 95%
Conducted Emission	2.8 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.39%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	16(20)
5200MHz	18(24)
5240MHz	19(26)
5745MHz	21.5(2B)
5785MHz	22(2C)
5825MHz	21(2A)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	31
5200MHz	35
5240MHz	38
5745MHz	44
5785MHz	45
5825MHz	45
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	26
5230MHz	35
5755MHz	38
5795MHz	41
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	24
5775MHz	35

Note:
- VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- There are two modes of EUT for 802.11n/ac/ax in 5GHz. 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.

2.2 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	Normal Link-EUT 1 + Adapter 1
2	Normal Link-EUT 1 + Adapter 2
3	Normal Link-EUT 1 + Adapter 3
For operating mode 3 is the worst case and it was record in this test report.	

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	CTX
1	EUT 1 + 2.4G + Adapter 1
2	EUT 1 + 2.4G + Adapter 2
3	EUT 1 + 2.4G + Adapter 3
Mode 2 has been evaluated to be the worst case between Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT 1 + 5G + Adapter 2
Mode 2 has been evaluated to be the worst case between Mode 1~4, thus measurement for Mode 5~10 will follow this same test mode.	
5	EUT 2 + 2.4G + Adapter 2
6	EUT 2 + 5G + Adapter 2
7	EUT 3 + 2.4G + Adapter 2
8	EUT 3 + 5G + Adapter 2
9	EUT 4 + 2.4G + Adapter 2
10	EUT 4 + 5G + Adapter 2
For operating mode 10 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA052055 for Co-location RF Exposure Evaluation.	

Note: The EUT can only use X axis position.

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

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

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories				
Equipment Name	**Brand Name**	**Model Name**	**Rating**	**Remark**
Adapter 1	APD	WB-24J12FU	Input: 100-240V ~ 50-60Hz, 0.7A MAX. Output: 12.0V, 2.0A, (Black)	Fixed adapter with US plug (Black)
Adapter 2	CWT	2AAJ024F	Input: 100-240V ~ 50/60Hz, 0.8A Output: 12.0V, 2.0A, (Black)	Fixed adapter with US plug (Black)
Adapter 3	APD	WB-24J12R	Input: 100-240V ~ 50-60Hz, 0.7A MAX. Output: 12.0V, 2.0A 24.0W, (Black)	Interchangeable adapter with US plug (Black)

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN1 NB	DELL	E6430	N/A
B	2.4G NB	DELL	E6430	N/A
C	5G NB	DELL	E6430	N/A
D	WAN NB	DELL	E6430	N/A
E	Flash disk3.0	Transcend	JetFlash-700	N/A

For Radiated (below 1GHz) and RF Conducted:

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

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

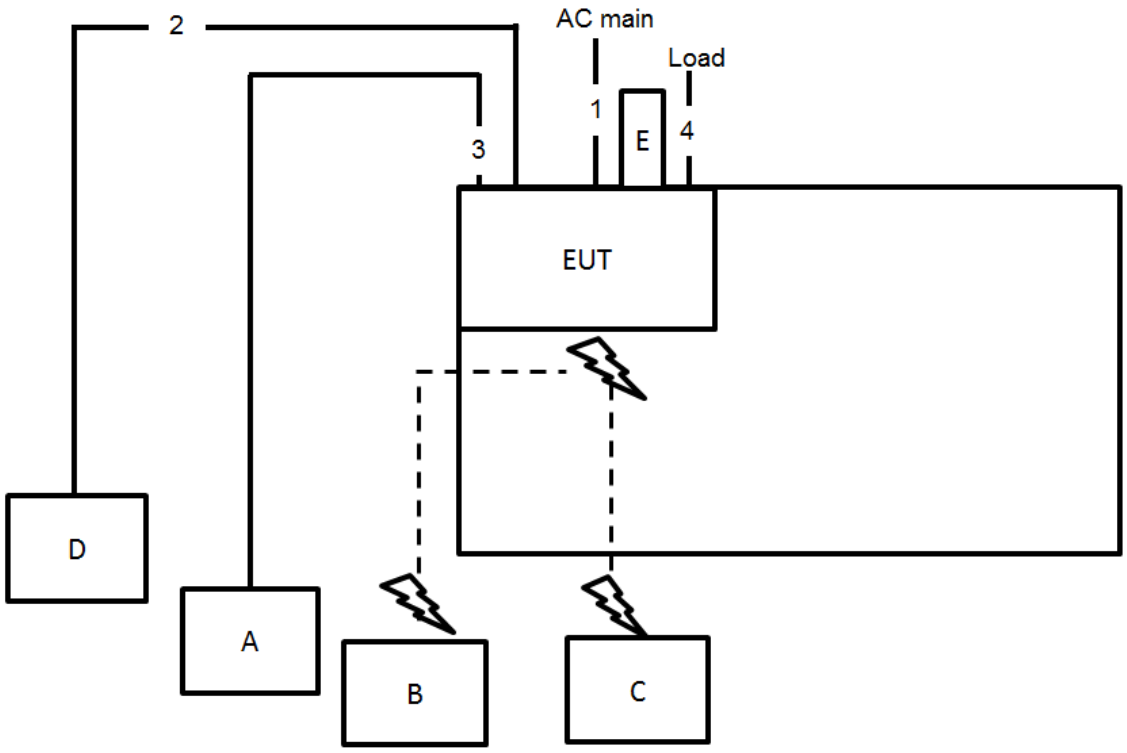
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A

Beamforming mode

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	RX Device	Linksys	E8450	N/A

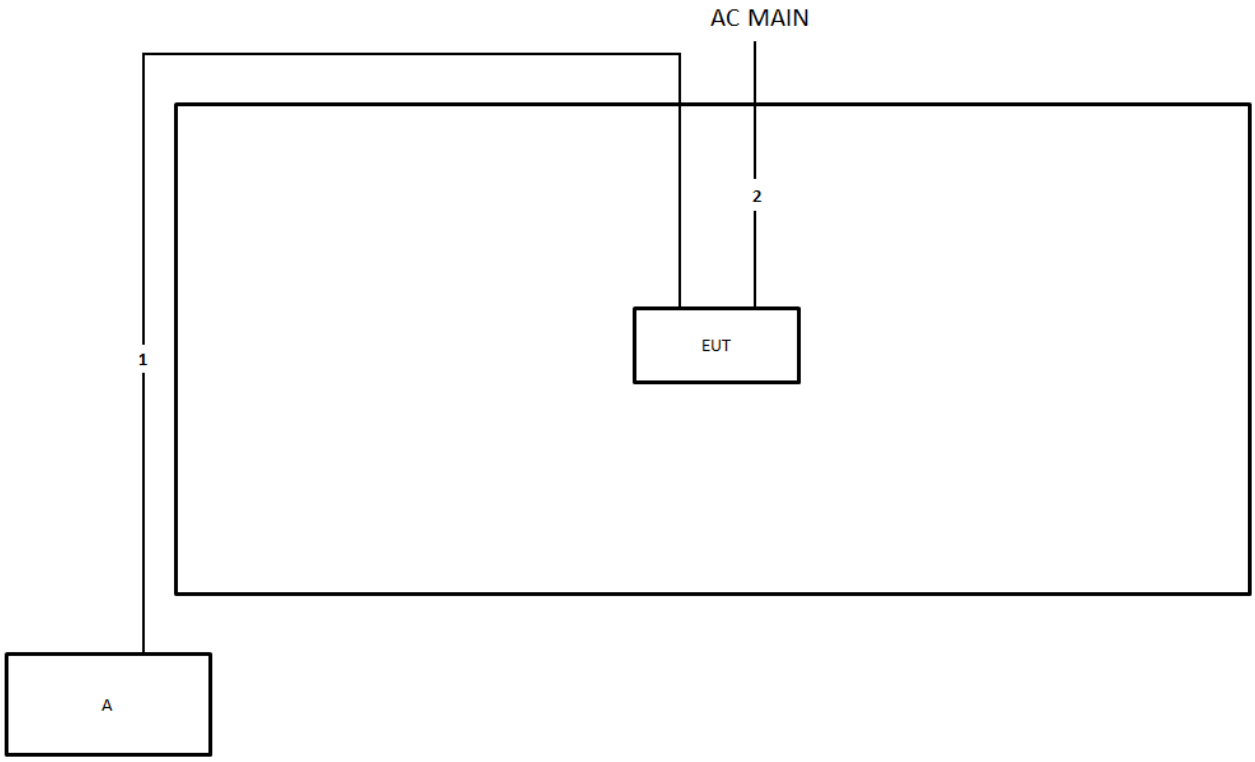
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



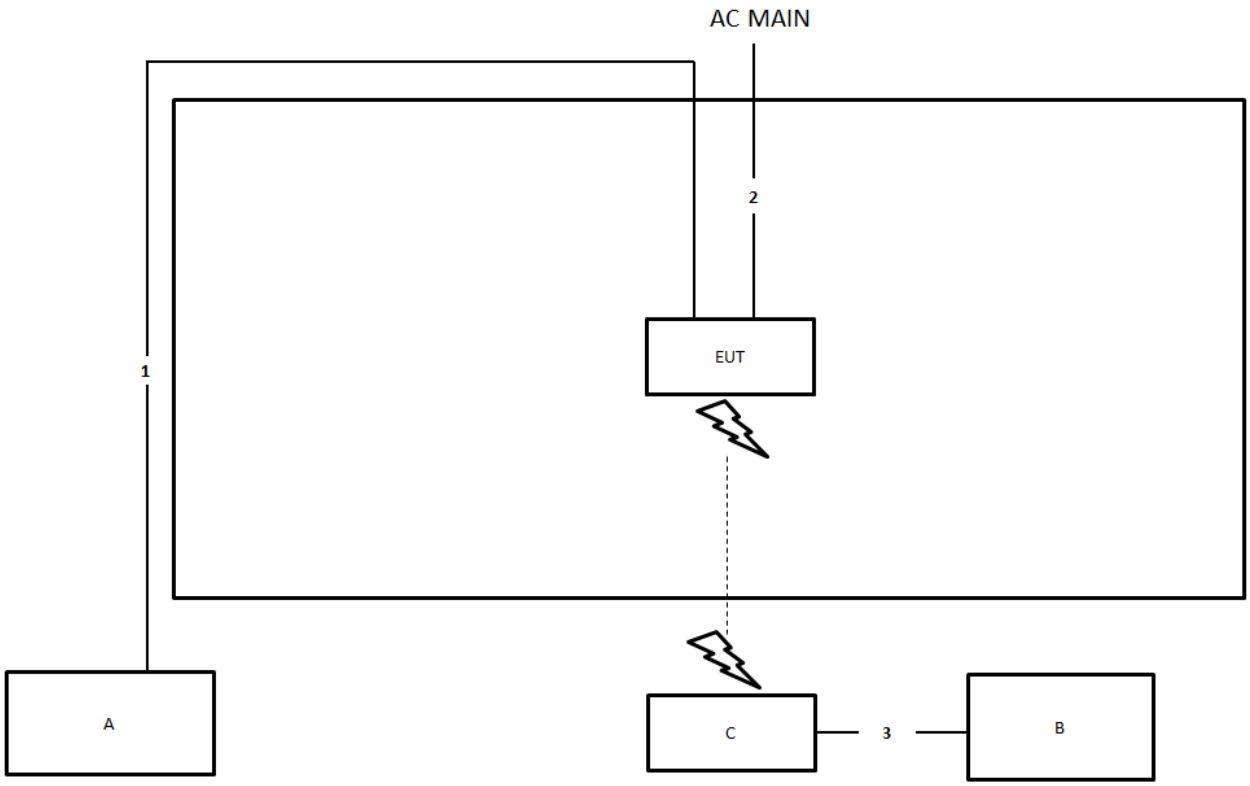
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	10m
4	RJ-45 cable*3	No	1.5m

Test Setup Diagram - Radiated Test < 1GHz and Radiated Test > 1GHz non-beamforming mode



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

Test Setup Diagram - Radiated Test > 1GHz beamforming mode



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

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

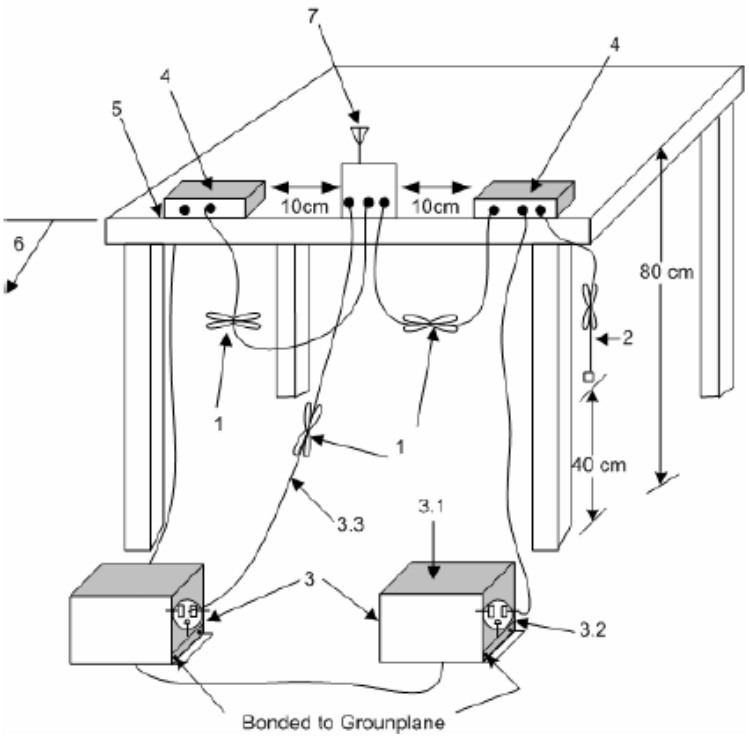
Refer a test equipment and calibration data table in this test report.

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 Measurement Results Calculation

The measured Level is calculated using:

a. Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level

b. Margin = - Limit + (Read Level + LISN Factor + Cable Loss)

3.1.6 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

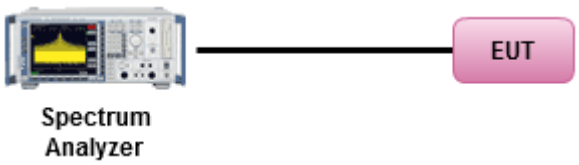
Refer a test equipment and calibration data table in this test report.

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.	

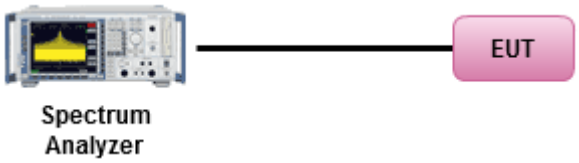
3.4.2 Measuring Instruments

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.

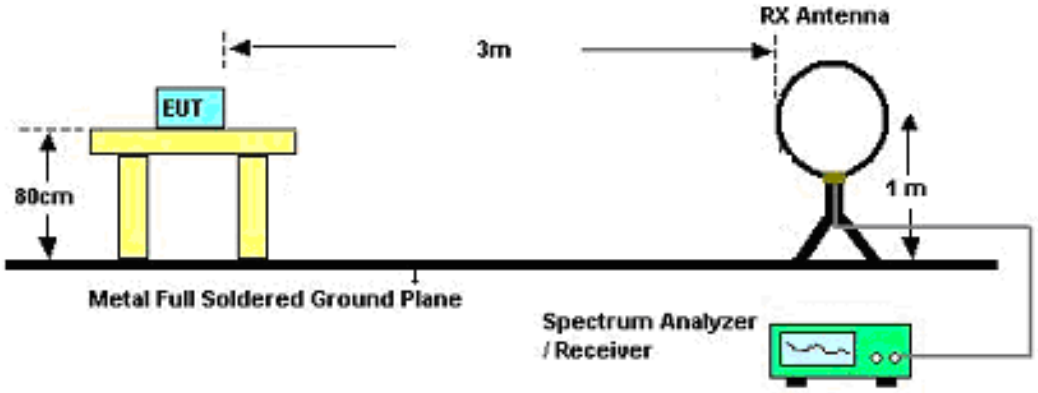
3.5.3 Test Procedures

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.			

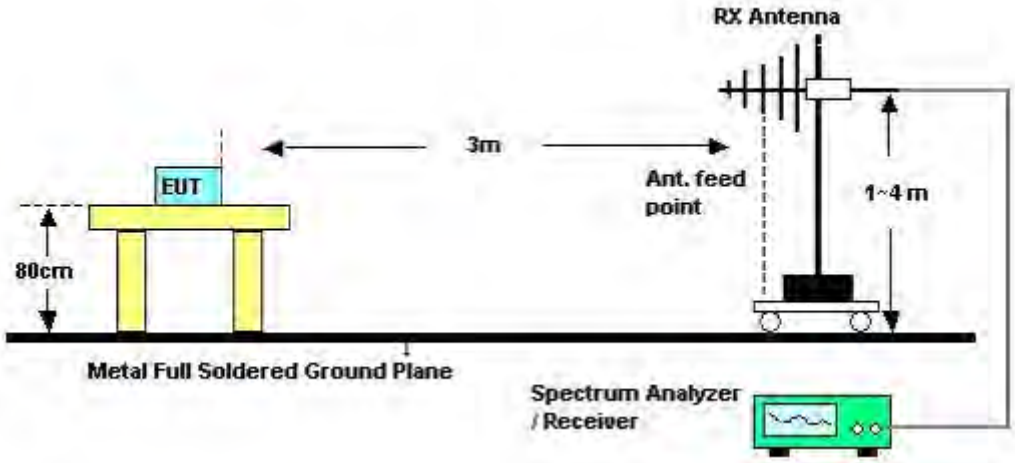
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

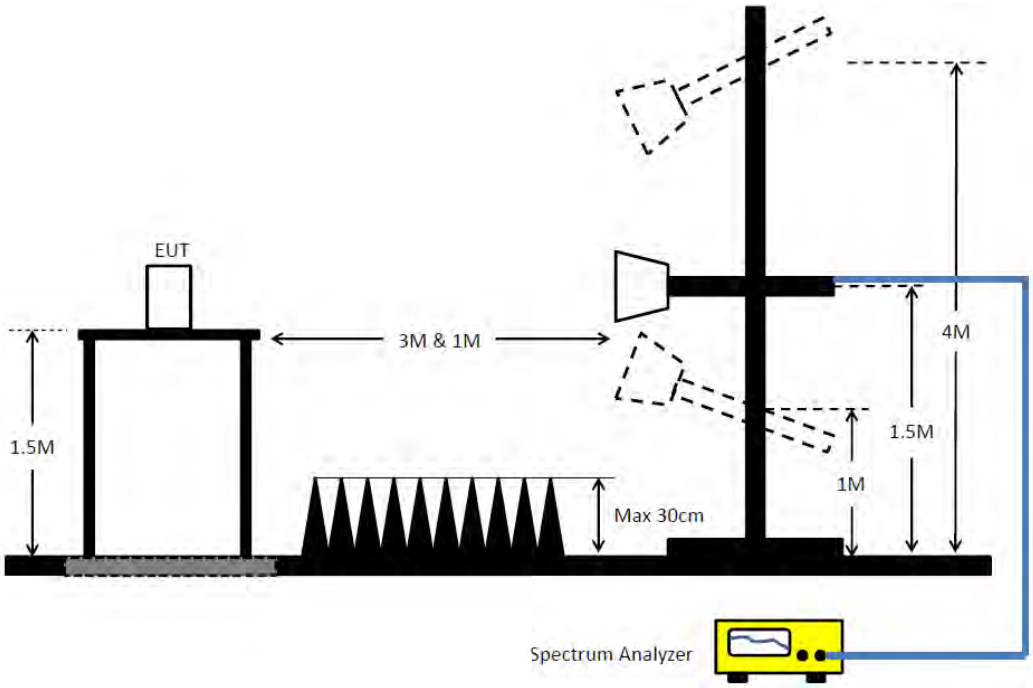
9kHz ~30MHz



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 (if applicable) = 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	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 31, 2020	Jan. 30, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 21, 2020	Apr. 20, 2021	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 11, 2020	Jun. 10, 2021	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 13, 2020	Jul. 12, 2021	Radiation (03CH02-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 19, 2020	Jun. 18, 2021	Radiation (03CH02-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH02-CB)
High Cable	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH02-CB)
High Cable	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 27, 2020	Mar. 26, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 28, 2020	Apr. 27, 2021	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 13, 2020	May 12, 2021	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 05, 2020	May 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
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. 18, 2019	Nov. 17, 2020	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)

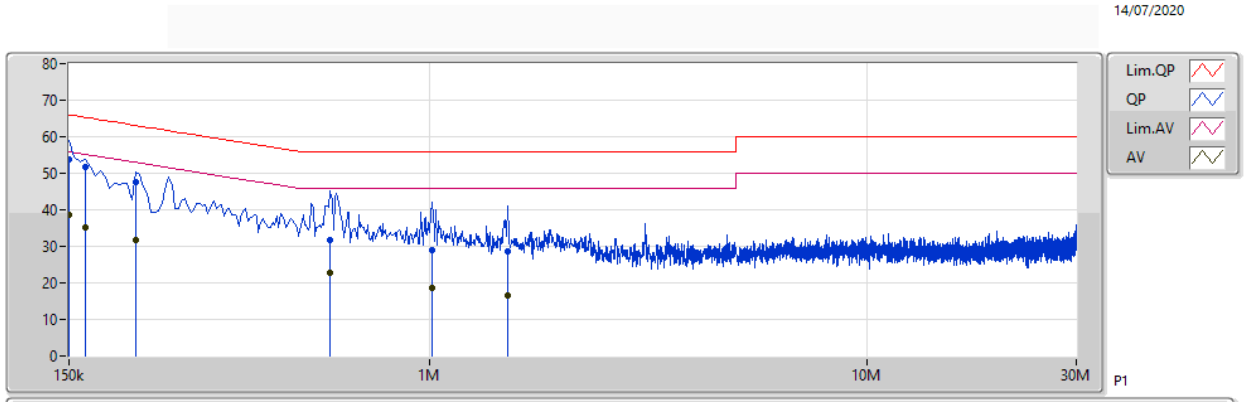
Note: Calibration Interval of instruments listed above is one year.

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

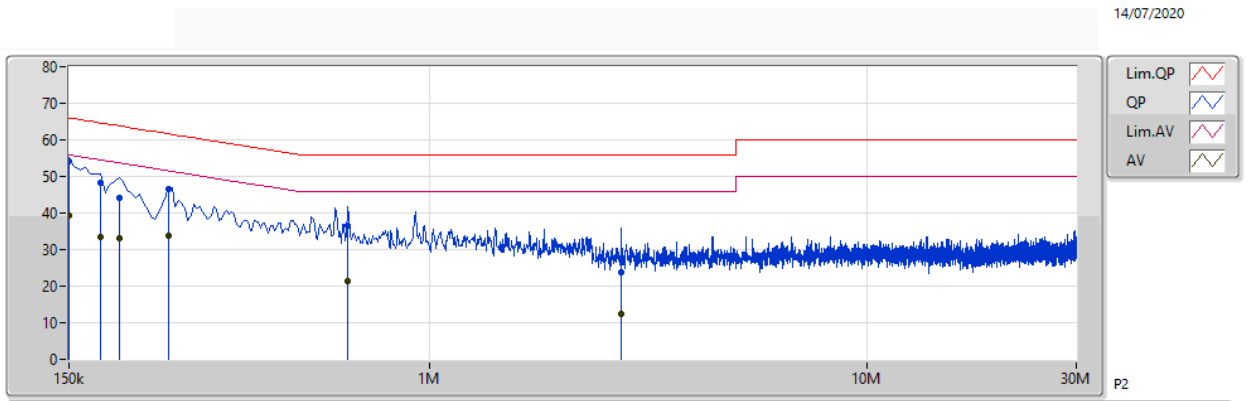
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 3	Pass	QP	150k	54.18	66.00	-11.82	9.86	Neutral

Test Mode: Mode 3



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	53.85	66.00	-12.15	9.87	Line	"Worst"	43.98	0.05	0.03	9.79
AV	150k	38.74	56.00	-17.26	9.87	Line	-	28.87	0.05	0.03	9.79
QP	163.5k	51.68	65.27	-13.59	9.87	Line	-	41.81	0.05	0.03	9.79
AV	163.5k	35.24	55.27	-20.03	9.87	Line	-	25.37	0.05	0.03	9.79
QP	213k	47.60	63.09	-15.49	9.86	Line	-	37.74	0.04	0.03	9.79
AV	213k	31.70	53.09	-21.39	9.86	Line	-	21.84	0.04	0.03	9.79
QP	591k	31.61	56.00	-24.39	9.88	Line	-	21.73	0.04	0.03	9.81
AV	591k	22.89	46.00	-23.11	9.88	Line	-	13.01	0.04	0.03	9.81
QP	1.014M	28.87	56.00	-27.13	9.91	Line	-	18.96	0.05	0.04	9.82
AV	1.014M	18.64	46.00	-27.36	9.91	Line	-	8.73	0.05	0.04	9.82
QP	1.505M	28.49	56.00	-27.51	9.95	Line	-	18.54	0.06	0.06	9.83
AV	1.505M	16.40	46.00	-29.60	9.95	Line	-	6.45	0.06	0.06	9.83



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	54.18	66.00	-11.82	9.86	Neutral	"Worst"	44.32	0.04	0.03	9.79
AV	150k	39.37	56.00	-16.63	9.86	Neutral	-	29.51	0.04	0.03	9.79
QP	177k	48.21	64.62	-16.41	9.86	Neutral	-	38.35	0.04	0.03	9.79
AV	177k	33.53	54.62	-21.09	9.86	Neutral	-	23.67	0.04	0.03	9.79
QP	195k	44.15	63.82	-19.67	9.86	Neutral	-	34.29	0.04	0.03	9.79
AV	195k	33.08	53.82	-20.74	9.86	Neutral	-	23.22	0.04	0.03	9.79
QP	253.5k	46.38	61.64	-15.26	9.87	Neutral	-	36.51	0.04	0.03	9.80
AV	253.5k	33.79	51.64	-17.85	9.87	Neutral	-	23.92	0.04	0.03	9.80
QP	649.5k	36.43	56.00	-19.57	9.91	Neutral	-	26.52	0.05	0.04	9.82
AV	649.5k	21.39	46.00	-24.61	9.91	Neutral	-	11.48	0.05	0.04	9.82
QP	2.738M	23.87	56.00	-32.13	10.00	Neutral	-	13.87	0.08	0.10	9.82
AV	2.738M	12.53	46.00	-33.47	10.00	Neutral	-	2.53	0.08	0.10	9.82

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)_4TX	34.41M	18.411M	18M4D1D	19.95M	16.522M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	38.07M	19.52M	19M5D1D	22.56M	19.01M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	52.62M	37.721M	37M7D1D	39.54M	37.421M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	80.16M	75.442M	75M4D1D	79.68M	75.322M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.29M	35.382M	35M4D1D	15.06M	24.288M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.93M	39.01M	39M0D1D	17.1M	28.186M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	35.58M	58.411M	58M4D1D	33.42M	37.901M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	75.12M	77.121M	77M1D1D	70.08M	76.882M

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)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.95M	16.582M	20.07M	16.522M	20.67M	16.552M	20.52M	16.522M
5200MHz	Pass	Inf	30.6M	16.882M	28.14M	16.732M	24.69M	16.672M	31.26M	17.181M
5240MHz	Pass	Inf	32.85M	17.721M	31.68M	17.451M	32.73M	18.411M	34.41M	18.021M
5745MHz	Pass	500k	16.29M	29.805M	15.39M	26.477M	15.39M	26.777M	15.81M	25.457M
5785MHz	Pass	500k	16.26M	35.382M	15.69M	32.294M	16.23M	32.744M	15.72M	29.925M
5825MHz	Pass	500k	15.63M	28.096M	15.09M	25.547M	15.06M	25.937M	15.66M	24.288M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.36M	19.01M	24.45M	19.1M	23.37M	19.04M	22.56M	19.07M
5200MHz	Pass	Inf	30.12M	19.1M	27.69M	19.04M	30.27M	19.1M	34.5M	19.16M
5240MHz	Pass	Inf	37.92M	19.37M	36.75M	19.34M	36.87M	19.4M	38.07M	19.52M
5745MHz	Pass	500k	18.48M	33.793M	18.09M	30.615M	18.09M	30.135M	18.54M	28.186M
5785MHz	Pass	500k	18.93M	38.831M	18.72M	38.831M	17.1M	38.411M	18M	34.303M
5825MHz	Pass	500k	18.78M	38.381M	18.66M	39.01M	17.94M	37.961M	17.91M	34.363M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.6M	37.481M	39.6M	37.421M	39.72M	37.601M	39.54M	37.421M
5230MHz	Pass	Inf	45.9M	37.661M	49.56M	37.601M	40.92M	37.721M	52.62M	37.661M
5755MHz	Pass	500k	33.72M	38.141M	33.78M	38.021M	33.78M	37.961M	35.1M	37.901M
5795MHz	Pass	500k	33.42M	58.411M	34.98M	50.735M	35.58M	48.756M	34.98M	42.639M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	79.92M	75.322M	80.16M	75.442M	79.92M	75.322M	79.68M	75.442M
5775MHz	Pass	500k	72.6M	77.121M	75.12M	76.882M	70.08M	77.001M	73.8M	77.001M

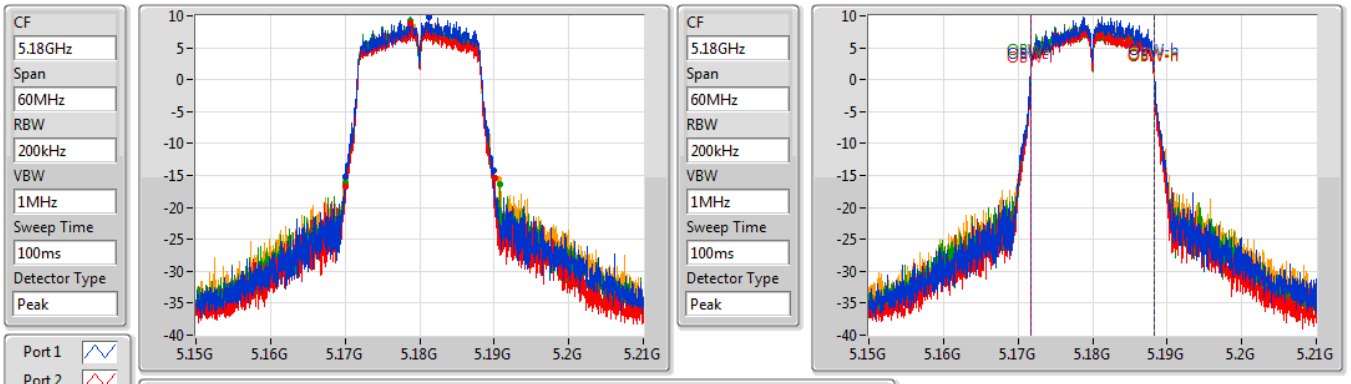
Port X-N dB = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port **X** 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

04/07/2020



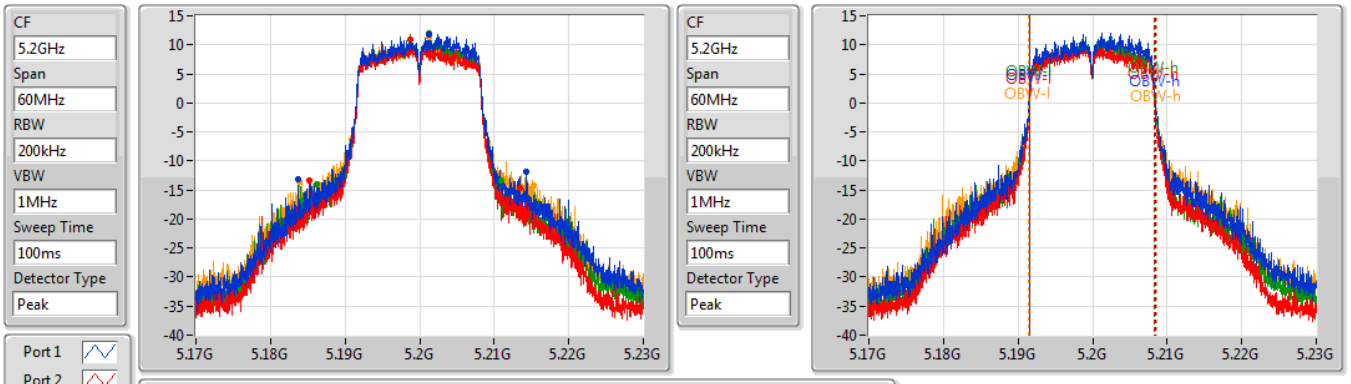
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.95M	5.16998G	5.18993G	16.582M	5.171694G	5.188276G	Inf	1
20.07M	5.17004G	5.19011G	16.522M	5.171724G	5.188246G	Inf	2
20.67M	5.17004G	5.19071G	16.552M	5.171694G	5.188246G	Inf	3
20.52M	5.17001G	5.19053G	16.522M	5.171724G	5.188246G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

04/07/2020



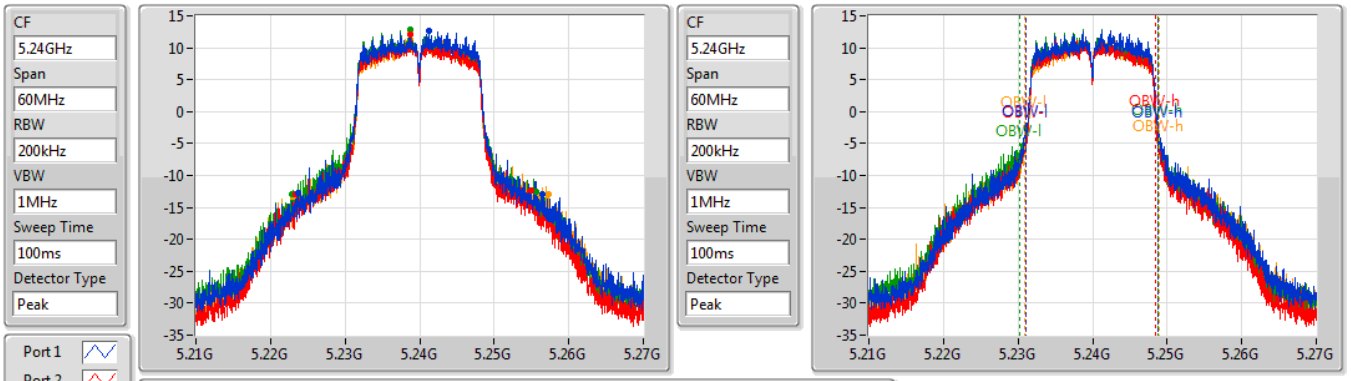
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30.6M	5.18377G	5.21437G	16.882M	5.191544G	5.208426G	Inf	1
28.14M	5.18524G	5.21338G	16.732M	5.191574G	5.208306G	Inf	2
24.69M	5.18626G	5.21095G	16.672M	5.191604G	5.208276G	Inf	3
31.26M	5.18395G	5.21521G	17.181M	5.191364G	5.208546G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

04/07/2020



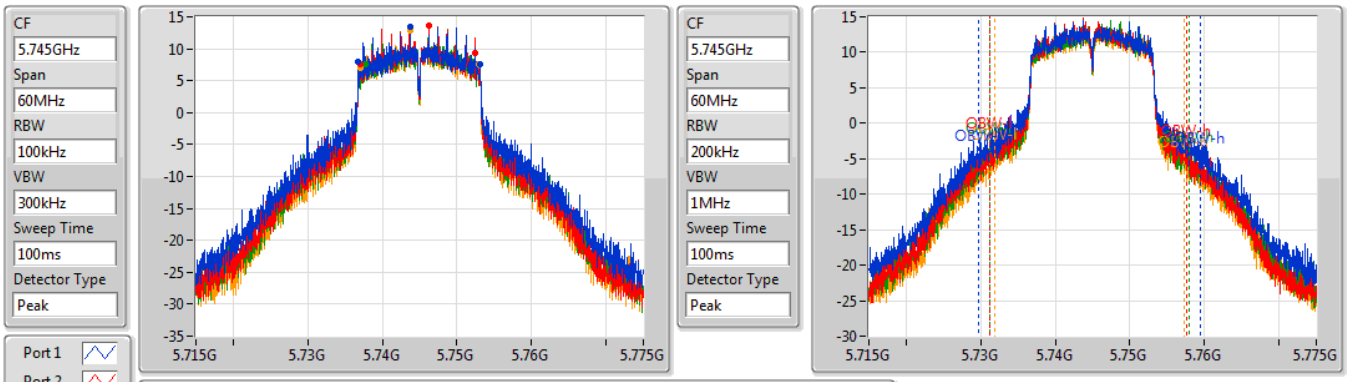
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.85M	5.22365G	5.2565G	17.721M	5.231094G	5.248816G	Inf	1
31.68M	5.22329G	5.25497G	17.451M	5.231064G	5.248516G	Inf	2
32.73M	5.2229G	5.25563G	18.411M	5.230285G	5.248696G	Inf	3
34.41M	5.22296G	5.25737G	18.021M	5.230945G	5.248966G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

04/07/2020



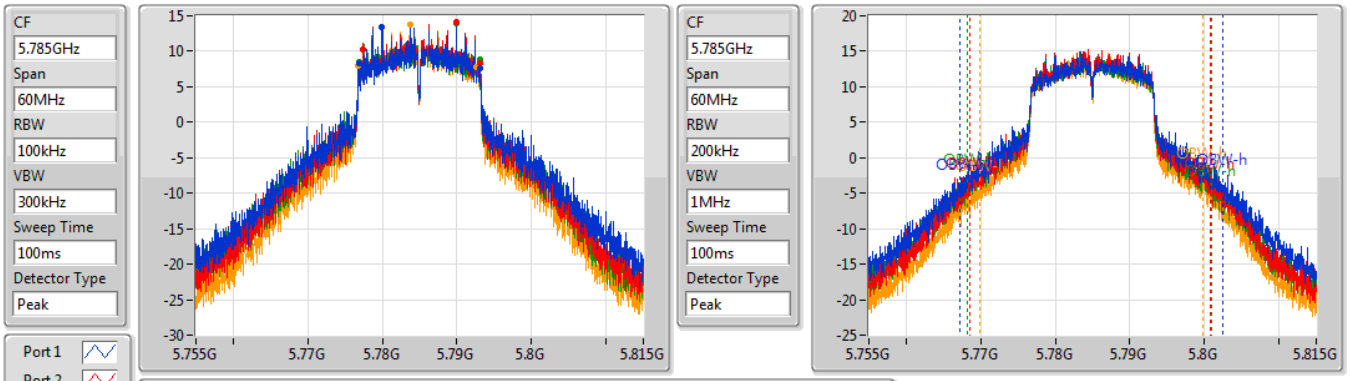
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.29M	5.73681G	5.7531G	29.805M	5.729678G	5.759483G	500k	1
15.39M	5.73711G	5.7525G	26.477M	5.731207G	5.757684G	500k	2
15.39M	5.73768G	5.75307G	26.777M	5.731147G	5.757924G	500k	3
15.81M	5.73705G	5.75286G	25.457M	5.731807G	5.757264G	500k	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

04/07/2020



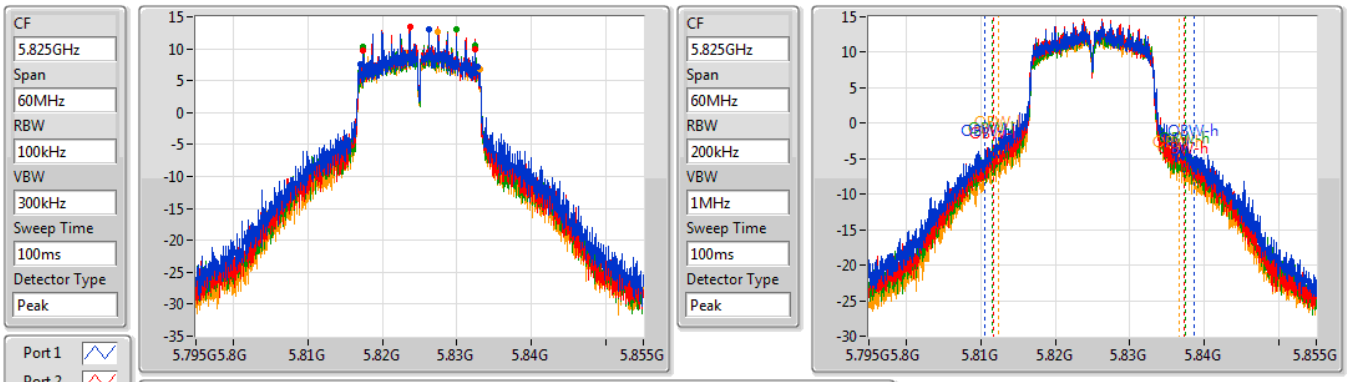
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.26M	5.77684G	5.7931G	35.382M	5.767129G	5.802511G	500k	1
15.69M	5.77741G	5.7931G	32.294M	5.768508G	5.800802G	500k	2
16.23M	5.77684G	5.79307G	32.744M	5.768148G	5.800892G	500k	3
15.72M	5.77681G	5.79253G	29.925M	5.769948G	5.799873G	500k	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

04/07/2020



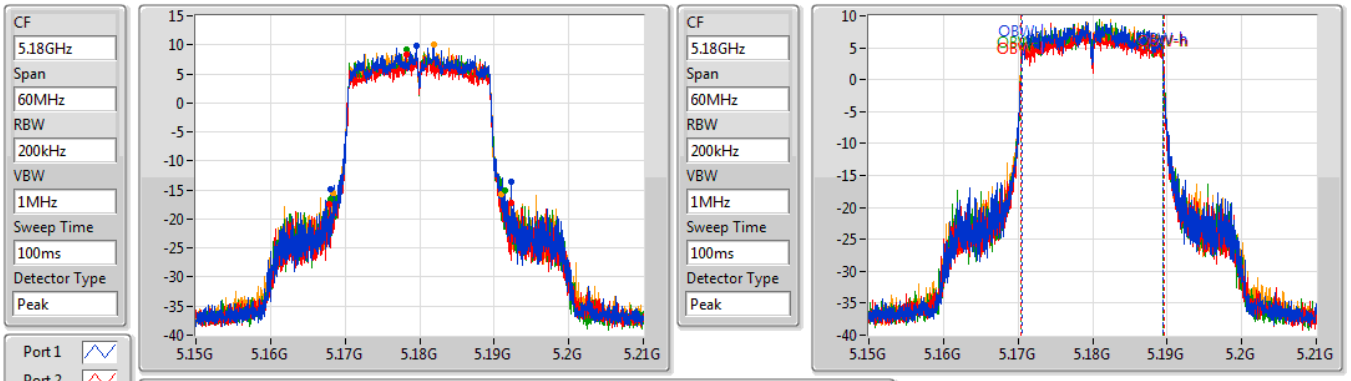
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.63M	5.81708G	5.83271G	28.096M	5.810577G	5.838673G	500k	1
15.09M	5.81741G	5.8325G	25.547M	5.811657G	5.837204G	500k	2
15.06M	5.81744G	5.8325G	25.937M	5.811567G	5.837504G	500k	3
15.66M	5.81744G	5.8331G	24.288M	5.812406G	5.836694G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

04/07/2020



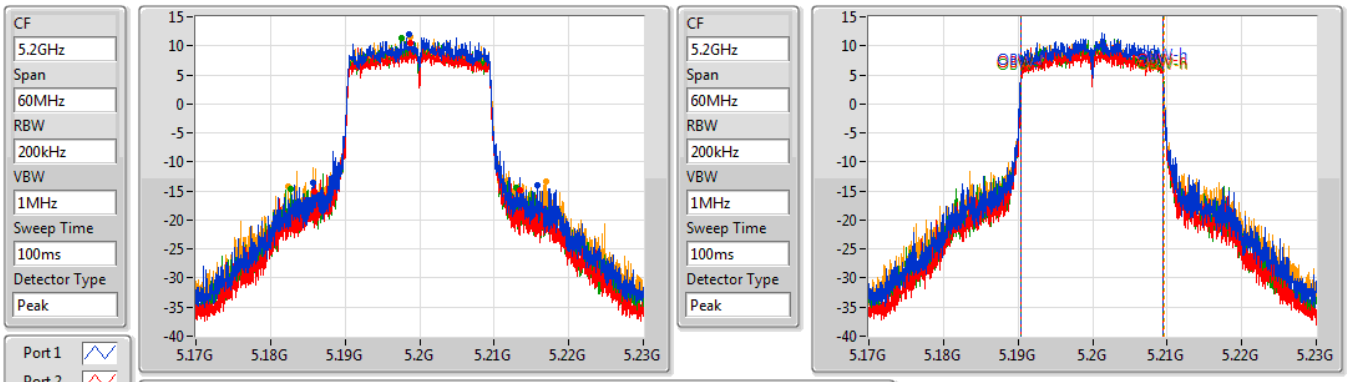
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.36M	5.168G	5.19236G	19.01M	5.170495G	5.189505G	Inf	1
24.45M	5.16782G	5.19227G	19.1M	5.170435G	5.189535G	Inf	2
23.37M	5.16809G	5.19146G	19.04M	5.170435G	5.189475G	Inf	3
22.56M	5.16836G	5.19092G	19.07M	5.170405G	5.189475G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

04/07/2020



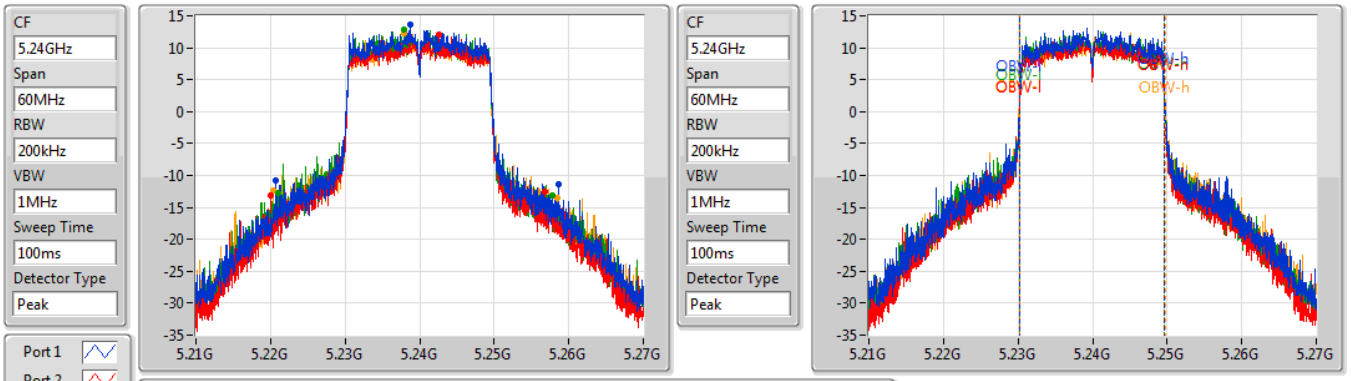
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30.12M	5.18575G	5.21587G	19.1M	5.190375G	5.209475G	Inf	1
27.69M	5.18584G	5.21353G	19.04M	5.190435G	5.209475G	Inf	2
30.27M	5.18269G	5.21296G	19.1M	5.190405G	5.209505G	Inf	3
34.5M	5.18245G	5.21695G	19.16M	5.190375G	5.209535G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

04/07/2020



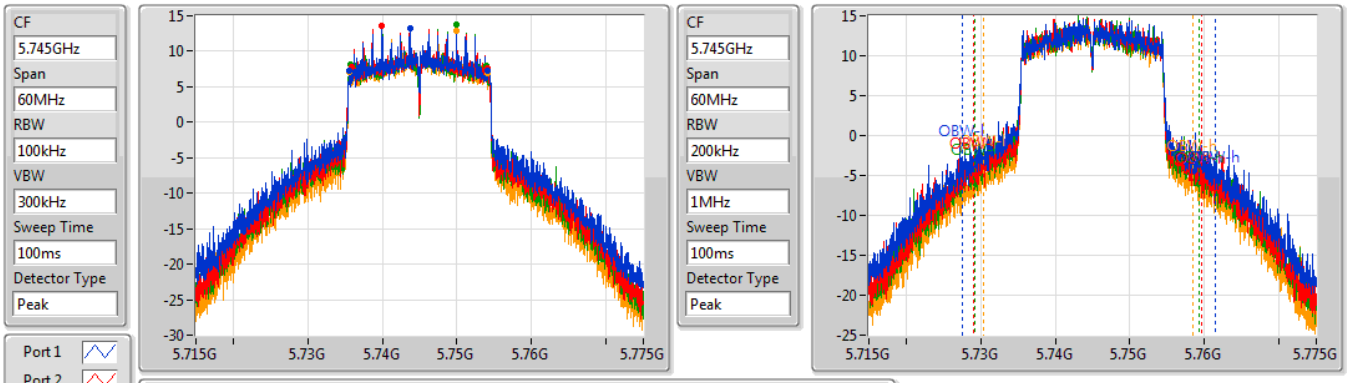
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.92M	5.22077G	5.25869G	19.37M	5.230255G	5.249625G	Inf	1
36.75M	5.22008G	5.25683G	19.34M	5.230255G	5.249595G	Inf	2
36.87M	5.22095G	5.25782G	19.4M	5.230225G	5.249625G	Inf	3
38.07M	5.22038G	5.25845G	19.52M	5.230195G	5.249715G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

04/07/2020



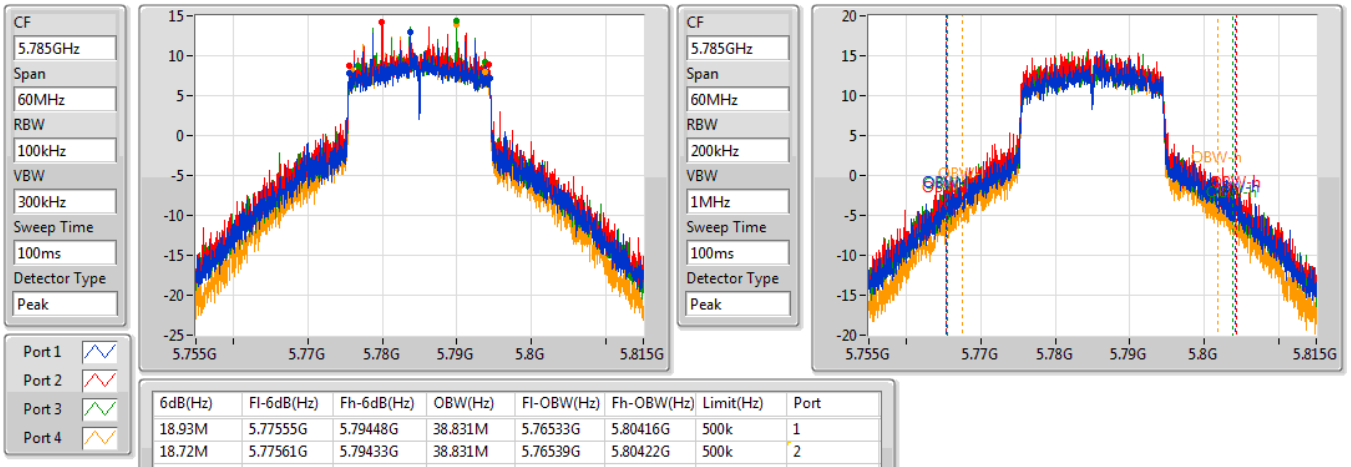
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.48M	5.73561G	5.75409G	33.793M	5.727609G	5.761402G	500k	1
18.09M	5.73594G	5.75403G	30.615M	5.729048G	5.759663G	500k	2
18.09M	5.73579G	5.75388G	30.135M	5.729228G	5.759363G	500k	3
18.54M	5.73558G	5.75412G	28.186M	5.730337G	5.758523G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

04/07/2020



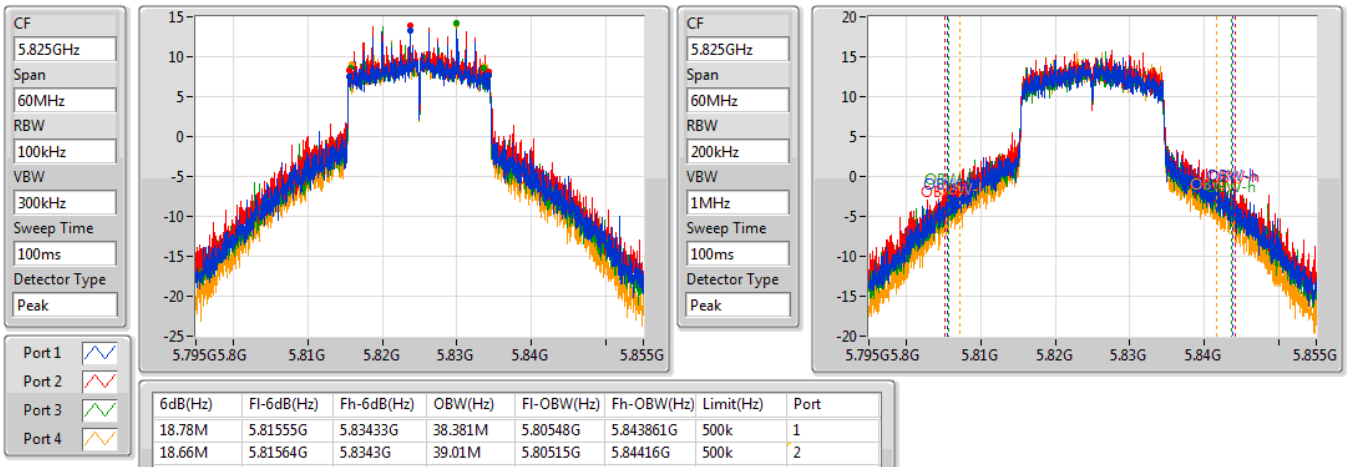
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.93M	5.77555G	5.79448G	38.831M	5.76533G	5.80416G	500k	1
18.72M	5.77561G	5.79433G	38.831M	5.76539G	5.80422G	500k	2
17.1M	5.77672G	5.79382G	38.411M	5.76545G	5.803861G	500k	3
18M	5.77582G	5.79382G	34.303M	5.767549G	5.801852G	500k	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

04/07/2020

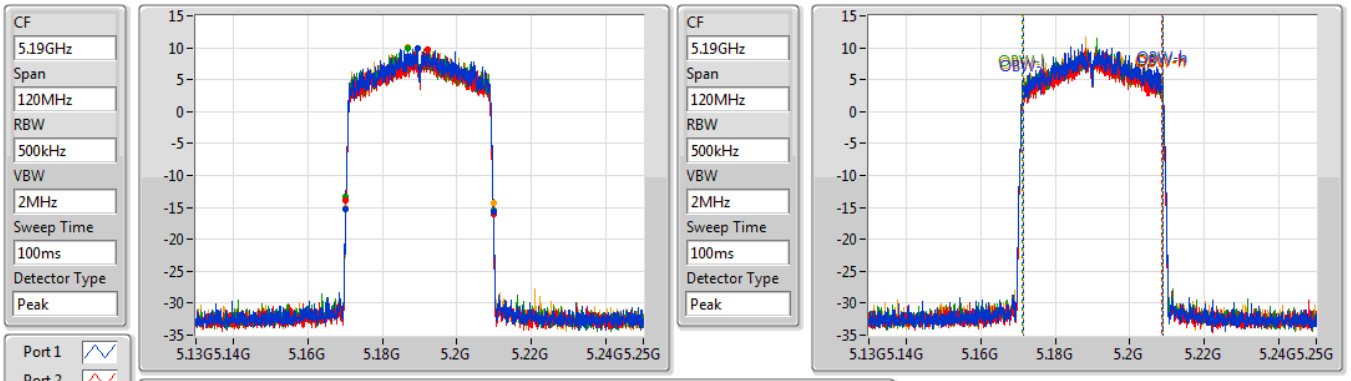


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.78M	5.81555G	5.83433G	38.381M	5.80548G	5.843861G	500k	1
18.66M	5.81564G	5.8343G	39.01M	5.80515G	5.84416G	500k	2
17.94M	5.81573G	5.83367G	37.961M	5.80563G	5.843591G	500k	3
17.91M	5.81591G	5.83382G	34.363M	5.807249G	5.841612G	500k	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5190MHz

04/07/2020

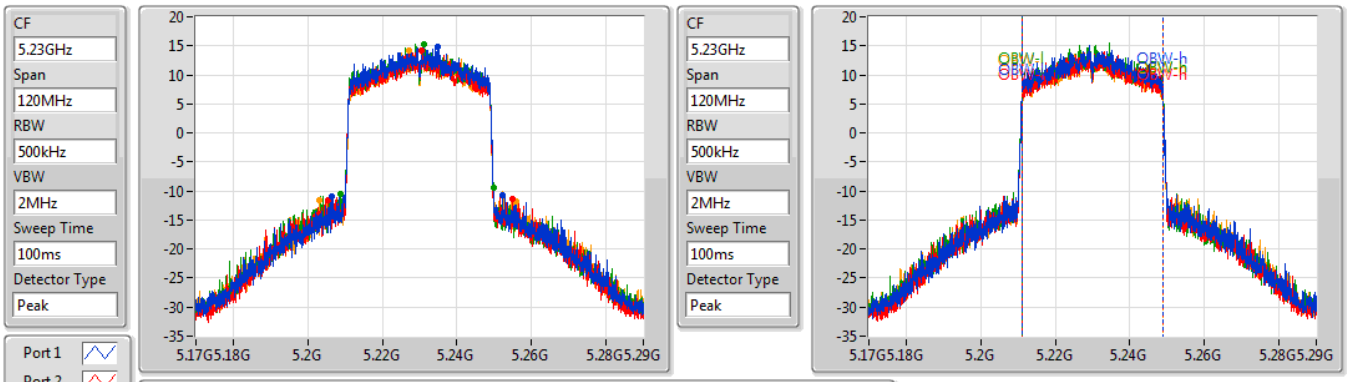


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.6M	5.1702G	5.2098G	37.481M	5.171289G	5.208771G	Inf	1
39.6M	5.1702G	5.2098G	37.421M	5.171289G	5.208711G	Inf	2
39.72M	5.17014G	5.20986G	37.601M	5.171169G	5.208771G	Inf	3
39.54M	5.1702G	5.20974G	37.421M	5.171289G	5.208711G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX EBW

5230MHz

04/07/2020



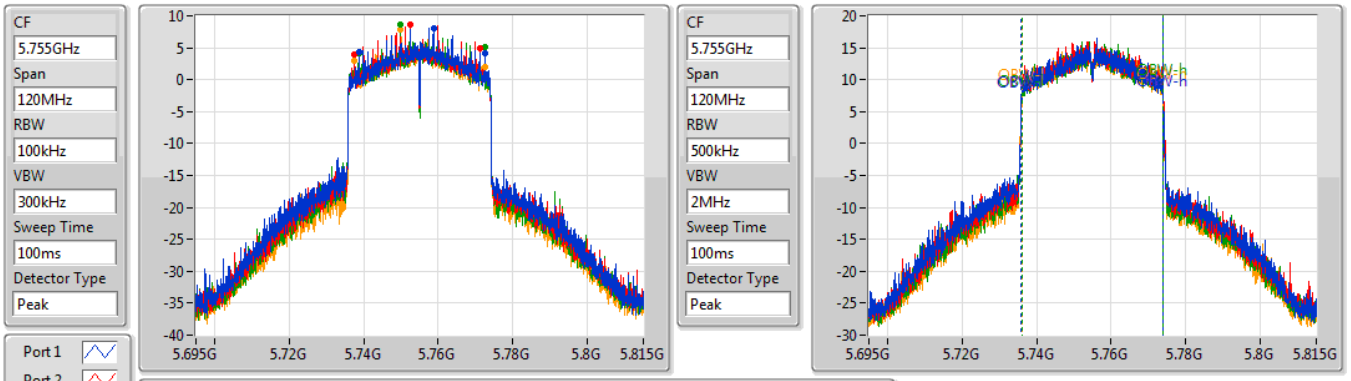
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
45.9M	5.20636G	5.25226G	37.661M	5.211169G	5.248831G	Inf	1
49.56M	5.2054G	5.25496G	37.601M	5.211169G	5.248771G	Inf	2
40.92M	5.20882G	5.24974G	37.721M	5.211109G	5.248831G	Inf	3
52.62M	5.20324G	5.25586G	37.661M	5.211169G	5.248831G	Inf	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5755MHz

04/07/2020



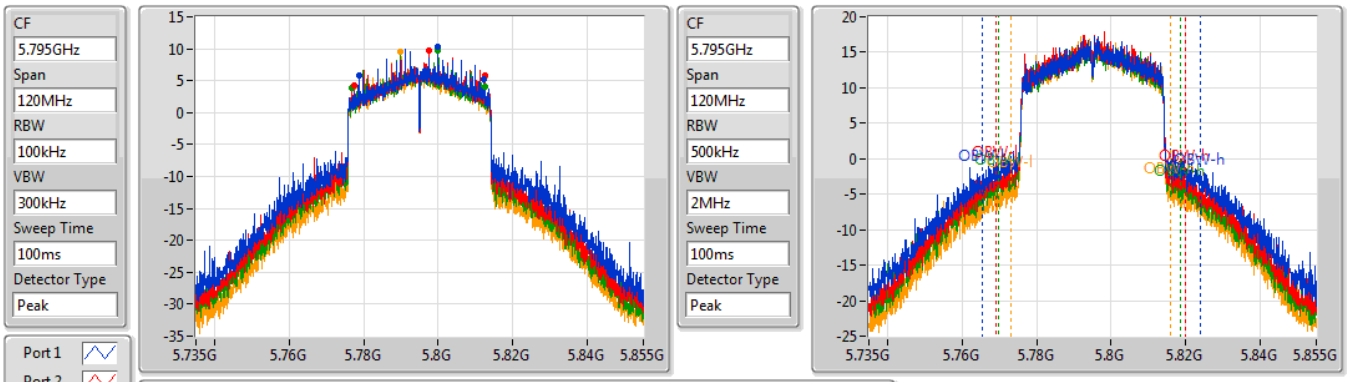
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.72M	5.73874G	5.77246G	38.141M	5.73581G	5.773951G	500k	1
33.78M	5.73748G	5.77126G	38.021M	5.73593G	5.773951G	500k	2
33.78M	5.73868G	5.77246G	37.961M	5.73599G	5.773951G	500k	3
35.1M	5.73742G	5.77252G	37.901M	5.73599G	5.773891G	500k	4

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5795MHz

04/07/2020



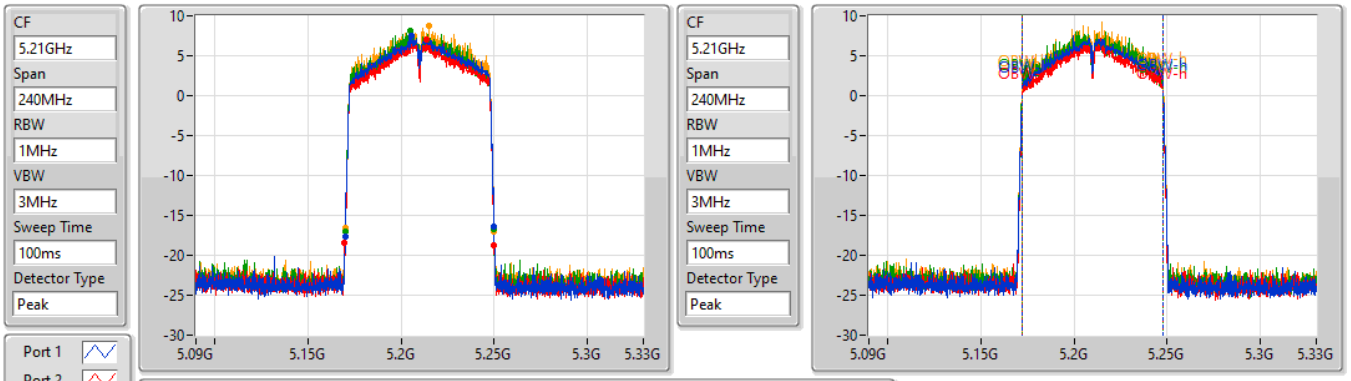
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.42M	5.77868G	5.8121G	58.411M	5.765555G	5.823966G	500k	1
34.98M	5.77748G	5.81246G	50.735M	5.769033G	5.819768G	500k	2
35.58M	5.77694G	5.81252G	48.756M	5.769753G	5.818508G	500k	3
34.98M	5.77748G	5.81246G	42.639M	5.773231G	5.81587G	500k	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

14/07/2020



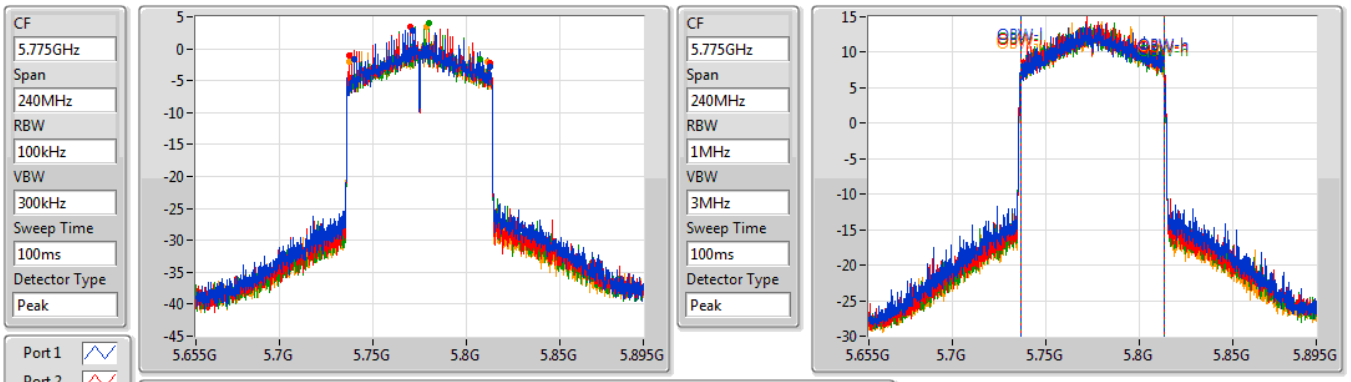
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
79.92M	5.17004G	5.24996G	75.322M	5.172459G	5.247781G	Inf	1
80.16M	5.1698G	5.24996G	75.442M	5.172339G	5.247781G	Inf	2
79.92M	5.17004G	5.24996G	75.322M	5.172339G	5.247661G	Inf	3
79.68M	5.17016G	5.24984G	75.442M	5.172339G	5.247781G	Inf	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

04/07/2020



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
72.6M	5.73996G	5.81256G	77.121M	5.736499G	5.813621G	500k	1
75.12M	5.73744G	5.81256G	76.882M	5.736619G	5.813501G	500k	2
70.08M	5.73744G	5.80752G	77.001M	5.736499G	5.813501G	500k	3
73.8M	5.73744G	5.81124G	77.001M	5.736499G	5.813501G	500k	4

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	27.33	0.54075
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	27.28	0.53456
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	26.15	0.41210
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	20.23	0.10544
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.84	0.96383
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.98	0.99541
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	28.80	0.75858
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	25.61	0.36392

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.10	18.83	18.18	18.58	18.97	24.67	30.00
5200MHz	Pass	5.10	21.28	20.02	20.71	20.68	26.72	30.00
5240MHz	Pass	5.10	21.41	20.89	21.63	21.29	27.33	30.00
5745MHz	Pass	5.50	23.66	23.70	23.52	23.20	29.54	30.00
5785MHz	Pass	5.50	23.76	24.05	23.80	23.64	29.84	30.00
5825MHz	Pass	5.50	22.87	23.18	22.81	22.70	28.91	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.70	18.11	17.12	17.70	18.05	23.78	30.00
5200MHz	Pass	5.70	20.43	19.25	19.85	20.19	25.97	30.00
5240MHz	Pass	5.70	21.79	20.83	21.47	20.86	27.28	30.00
5745MHz	Pass	4.80	23.83	23.92	23.72	23.38	29.74	30.00
5785MHz	Pass	4.80	23.59	24.26	24.05	23.84	29.96	30.00
5825MHz	Pass	4.80	23.70	24.37	23.91	23.81	29.98	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.70	16.14	15.24	15.54	15.86	21.73	30.00
5230MHz	Pass	5.70	20.57	19.77	20.35	19.76	26.15	30.00
5755MHz	Pass	4.80	21.52	21.73	21.43	21.21	27.50	30.00
5795MHz	Pass	4.80	22.90	23.12	22.59	22.48	28.80	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.70	14.55	13.20	14.34	14.59	20.23	30.00
5775MHz	Pass	4.80	19.74	19.83	19.43	19.35	25.61	30.00

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_4TX	15.24
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	14.64
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	11.43
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.15
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	16.26
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	15.62
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	12.64
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	6.42

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

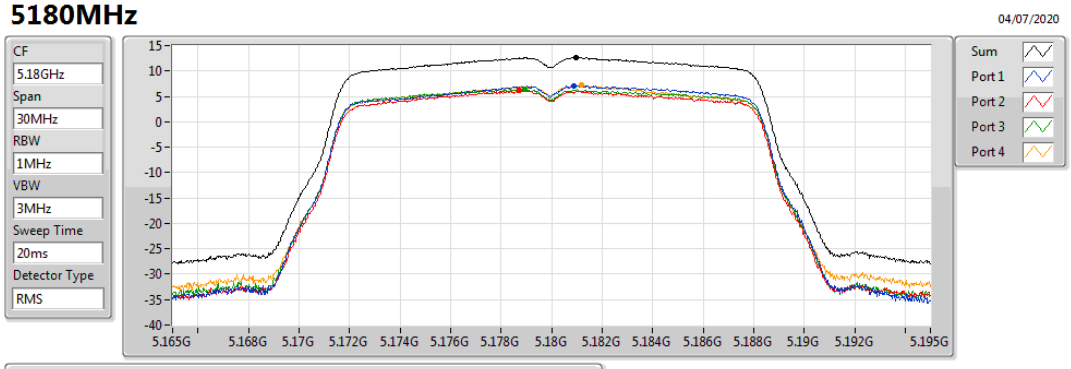
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.70	7.09	6.16	6.37	7.25	12.63	17.00
5200MHz	Pass	5.70	9.19	8.06	9.06	8.50	14.65	17.00
5240MHz	Pass	5.70	9.69	8.90	9.45	9.40	15.24	17.00
5745MHz	Pass	4.80	10.04	10.21	9.92	9.57	15.86	30.00
5785MHz	Pass	4.80	9.96	10.76	10.28	10.28	16.26	30.00
5825MHz	Pass	4.80	9.69	10.04	9.39	9.27	15.49	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.70	5.84	4.42	5.24	5.42	11.02	17.00
5200MHz	Pass	5.70	8.02	6.42	6.98	7.44	13.10	17.00
5240MHz	Pass	5.70	9.36	8.28	8.97	8.33	14.64	17.00
5745MHz	Pass	4.80	9.42	9.66	9.36	9.13	15.32	30.00
5785MHz	Pass	4.80	9.10	10.12	9.71	9.70	15.56	30.00
5825MHz	Pass	4.80	9.39	10.00	9.67	9.67	15.62	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.70	1.46	0.52	1.02	1.07	6.89	17.00
5230MHz	Pass	5.70	6.02	5.22	6.01	5.30	11.43	17.00
5755MHz	Pass	4.80	5.36	5.45	5.24	4.84	11.11	30.00
5795MHz	Pass	4.80	6.80	6.93	6.57	6.54	12.64	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.70	-2.15	-3.51	-3.01	-2.40	3.15	17.00
5775MHz	Pass	4.80	0.48	0.80	0.44	0.30	6.42	30.00

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)_4TX PSD

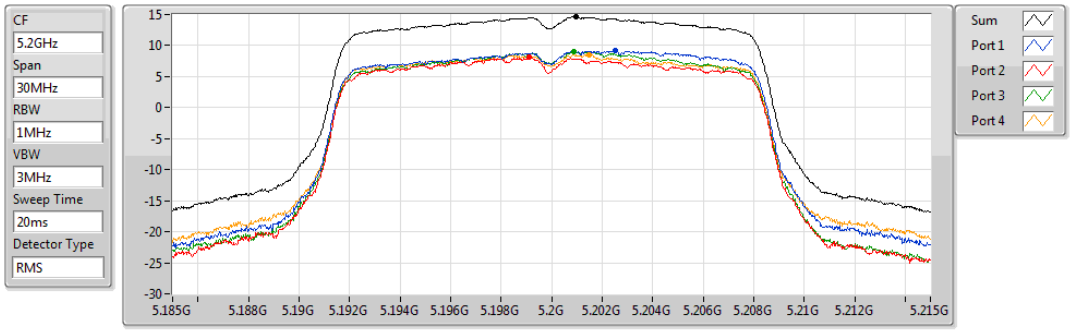
5180MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.63	12.63	7.09	6.16	6.37	7.25

802.11a_Nss1,(6Mbps)_4TX PSD

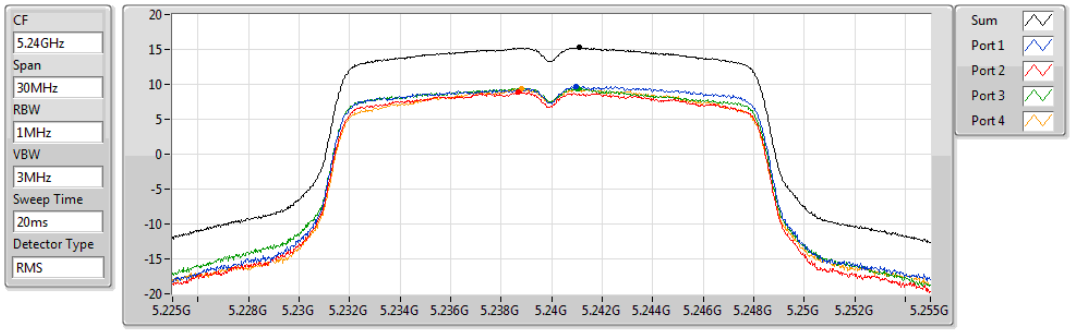
5200MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.65	14.65	9.19	8.06	9.06	8.50

802.11a_Nss1,(6Mbps)_4TX PSD

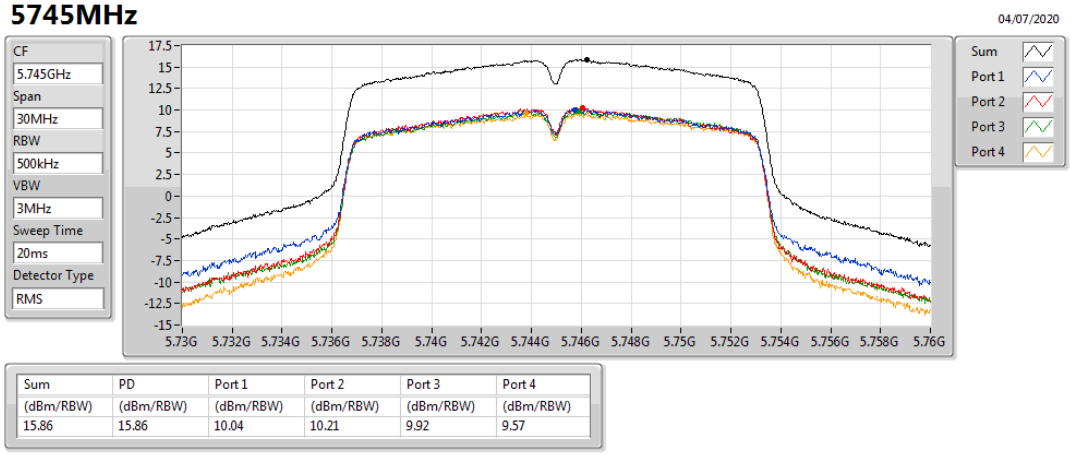
5240MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.24	15.24	9.69	8.90	9.45	9.40

802.11a_Nss1,(6Mbps)_4TX PSD

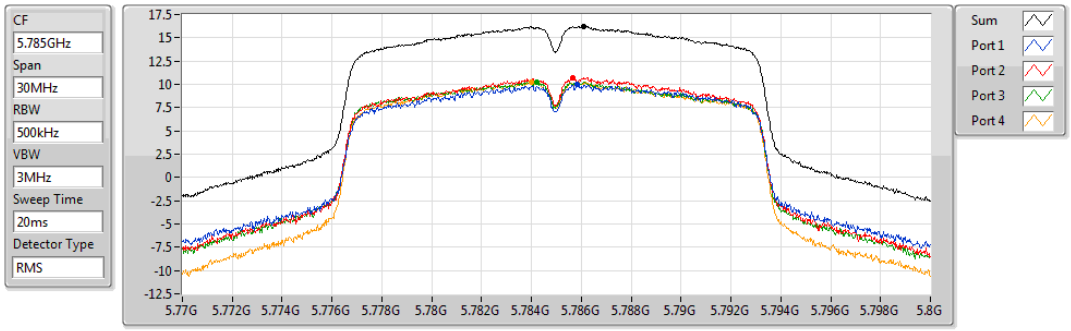
5745MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.86	15.86	10.04	10.21	9.92	9.57

802.11a_Nss1,(6Mbps)_4TX PSD

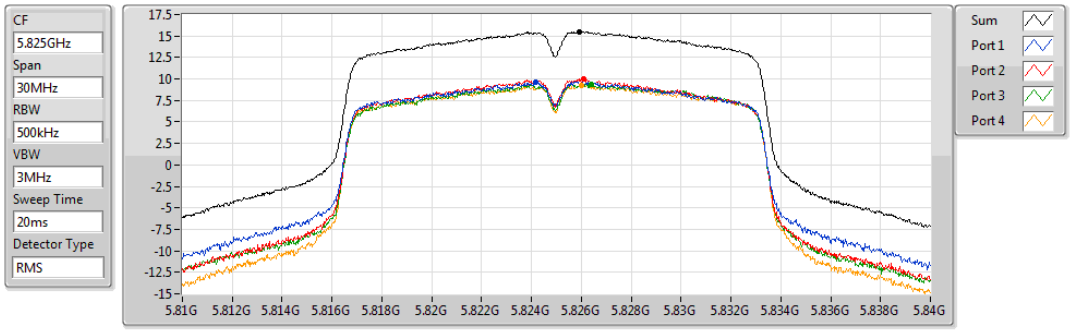
5785MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.26	16.26	9.96	10.76	10.28	10.28

802.11a_Nss1,(6Mbps)_4TX PSD

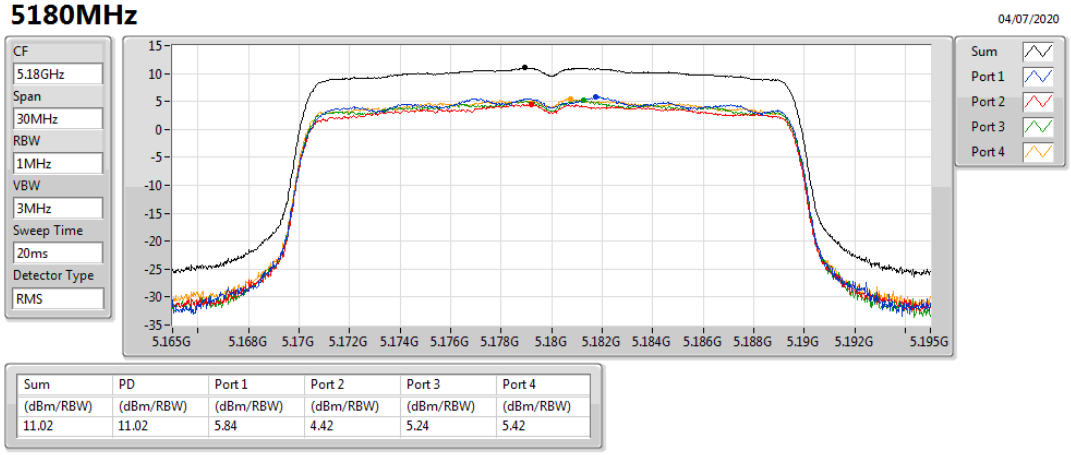
5825MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.49	15.49	9.69	10.04	9.39	9.27

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

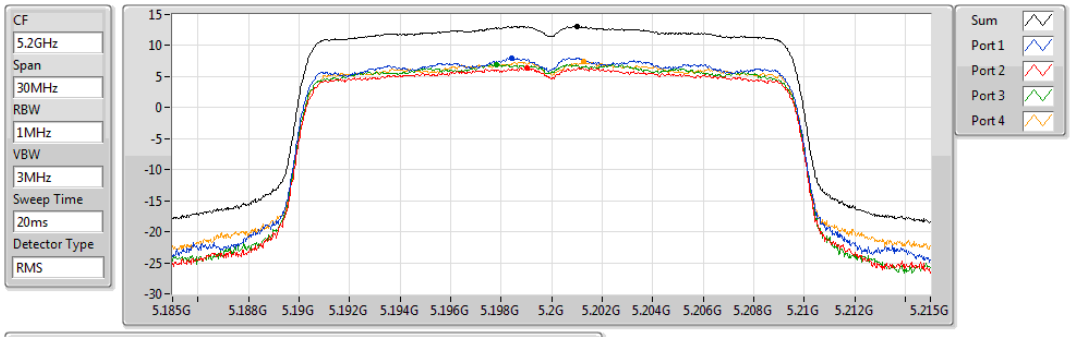
5180MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.02	11.02	5.84	4.42	5.24	5.42

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

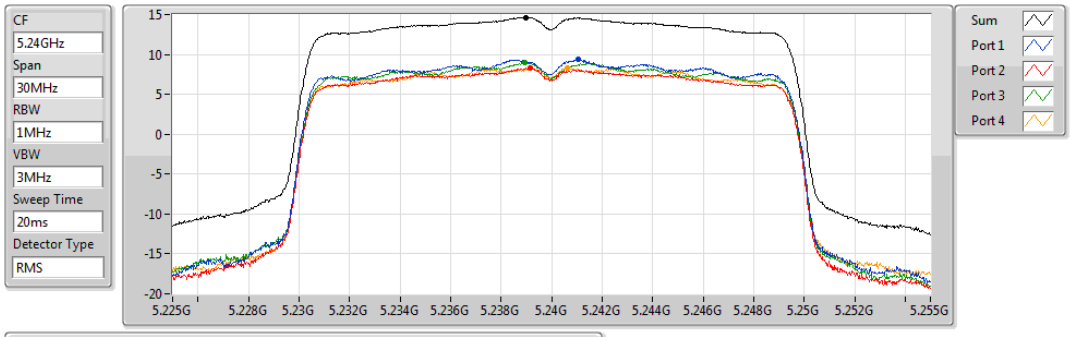
5200MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.10	13.10	8.02	6.42	6.98	7.44

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

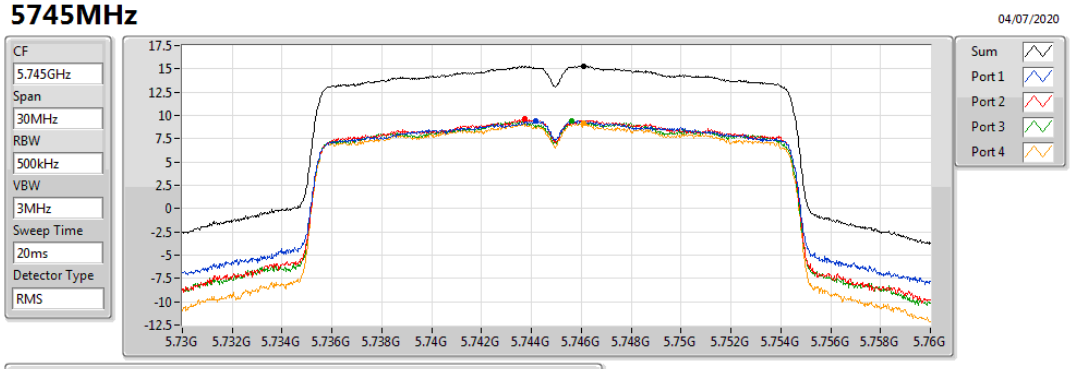
5240MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.64	14.64	9.36	8.28	8.97	8.33

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

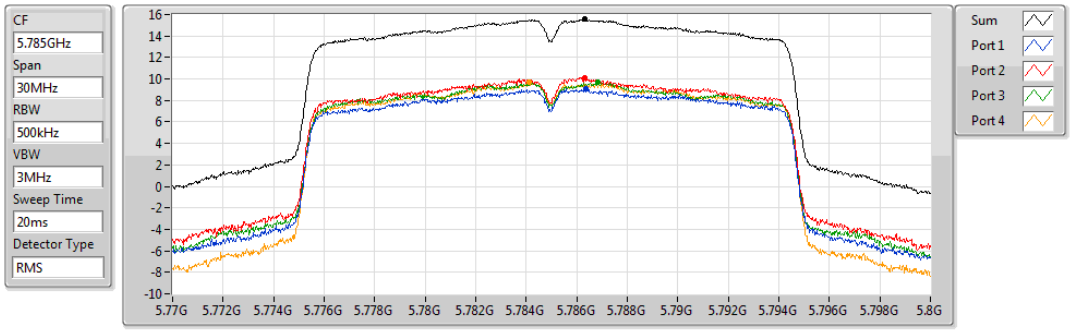
5745MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.32	15.32	9.42	9.66	9.36	9.13

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

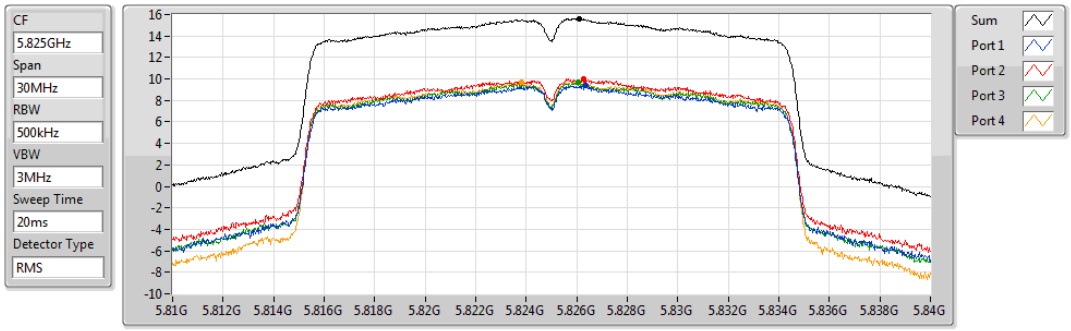
5785MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.56	15.56	9.10	10.12	9.71	9.70

802.11ax HEW20-BF_Nss1,(MCS0)_4TX PSD

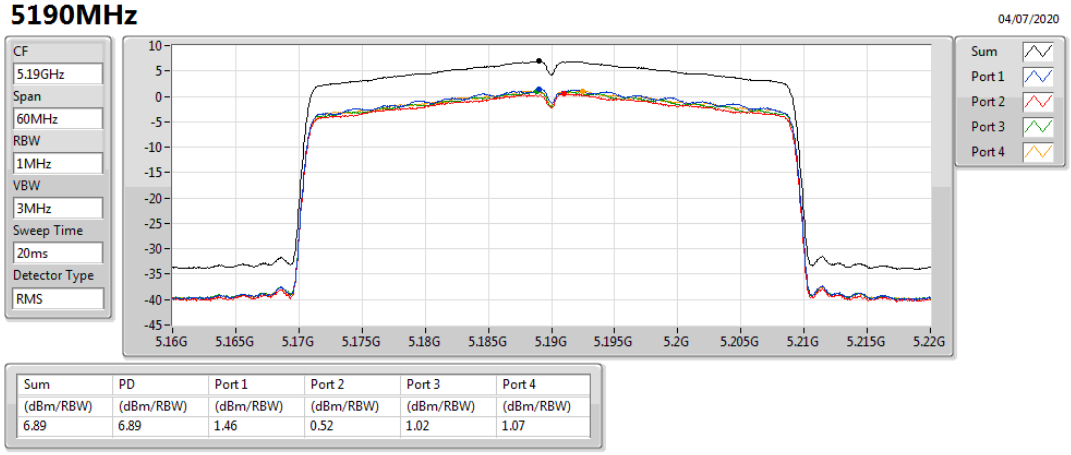
5825MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.62	15.62	9.39	10.00	9.67	9.67

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

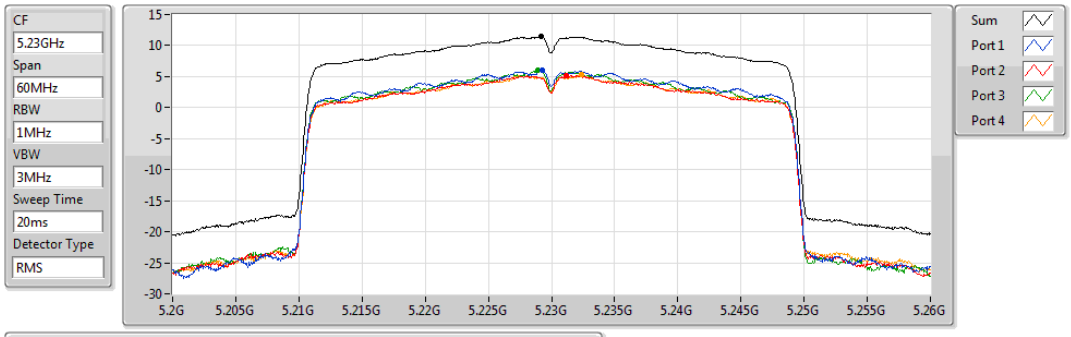
5190MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.89	6.89	1.46	0.52	1.02	1.07

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

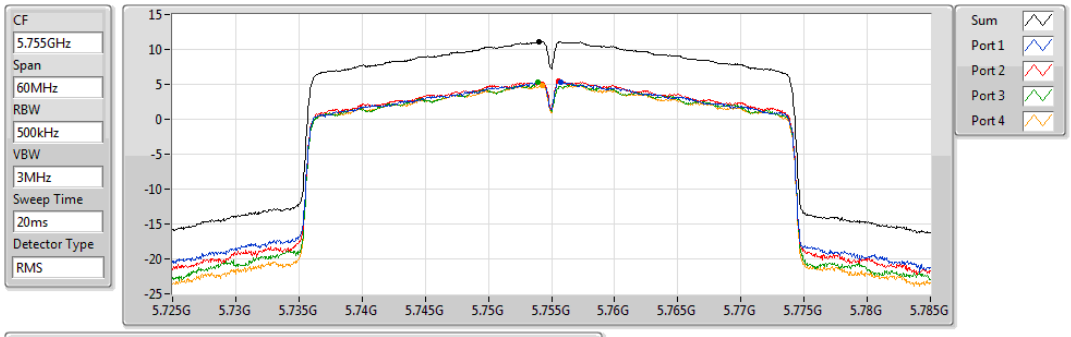
5230MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.43	11.43	6.02	5.22	6.01	5.30

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

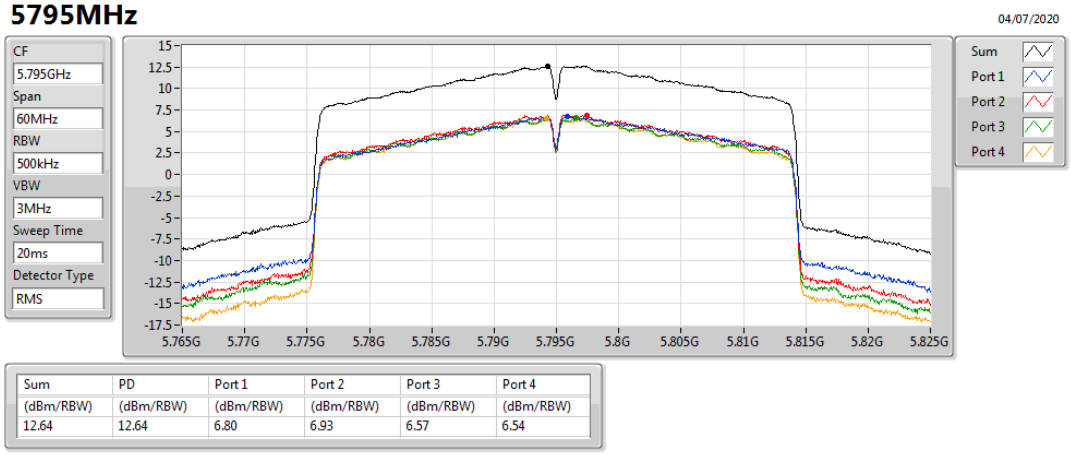
5755MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.11	11.11	5.36	5.45	5.24	4.84

802.11ax HEW40-BF_Nss1,(MCS0)_4TX PSD

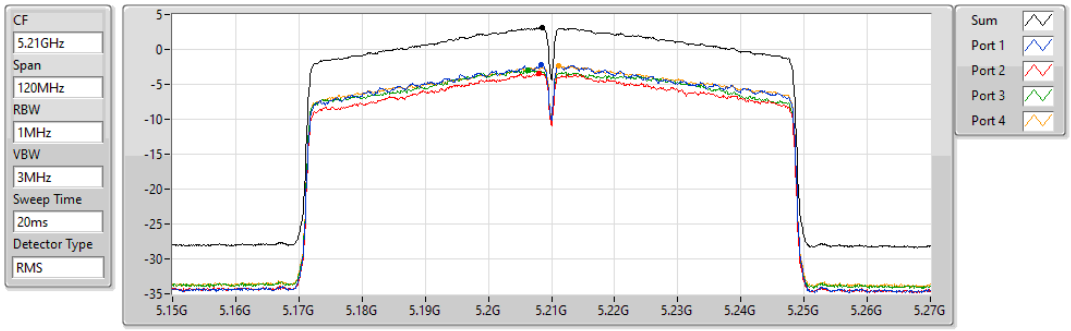
5795MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.64	12.64	6.80	6.93	6.57	6.54

802.11ax HEW80-BF_Nss1,(MCS0)_4TX PSD

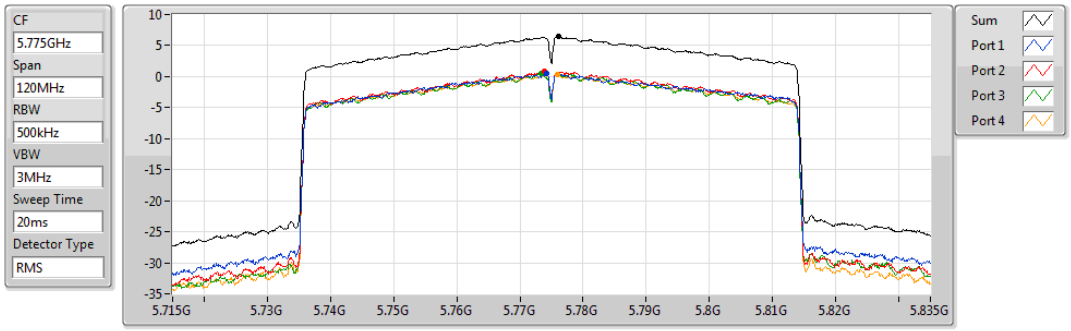
5210MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.15	3.15	-2.15	-3.51	-3.01	-2.40

802.11ax HEW80-BF_Nss1,(MCS0)_4TX PSD

5775MHz



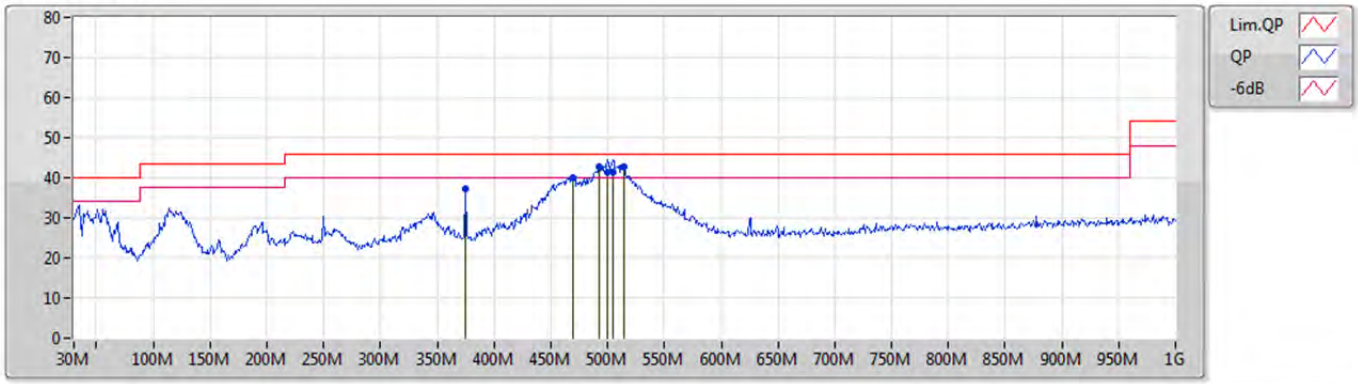
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.42	6.42	0.48	0.80	0.44	0.30

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 10	Pass	PK	492.69M	42.86	46.00	-3.14	Vertical

Mode 10

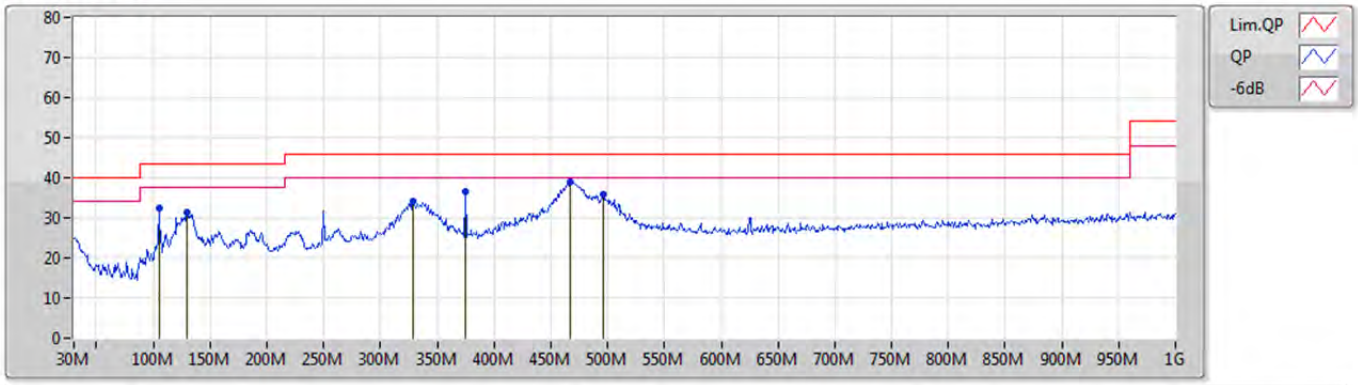
17/07/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	375.32M	37.19	46.00	-8.81	-9.09	3	Vertical	260	1.50	-	46.28	20.23	2.75	32.07
PK	469.41M	40.11	46.00	-5.89	-6.60	3	Vertical	248	1.00	-	46.71	22.70	2.99	32.29
PK	492.69M	42.86	46.00	-3.14	-6.38	3	Vertical	248	1.00	"Worst"	49.24	22.90	3.08	32.36
QP	499.48M	41.49	46.00	-4.51	-6.32	3	Vertical	248	1.00	-	47.81	22.95	3.10	32.37
QP	504.33M	41.49	46.00	-4.51	-6.27	3	Vertical	248	1.00	-	47.76	22.97	3.12	32.36
PK	514.03M	42.80	46.00	-3.20	-6.21	3	Vertical	248	1.00	-	49.01	22.97	3.16	32.34

Mode 10

17/07/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	104.69M	32.33	43.50	-11.17	-13.06	3	Horizontal	288	2.00	-	45.39	17.23	1.55	31.84
PK	129.91M	31.24	43.50	-12.26	-12.24	3	Horizontal	114	1.50	-	43.48	17.87	1.75	31.86
PK	328.76M	34.30	46.00	-11.70	-10.33	3	Horizontal	243	1.00	-	44.63	19.12	2.56	32.01
PK	375.32M	36.53	46.00	-9.47	-9.09	3	Horizontal	287	1.00	-	45.62	20.23	2.75	32.07
PK	466.5M	38.91	46.00	-7.09	-6.67	3	Horizontal	213	2.00	"Worst"	45.58	22.63	2.98	32.28
PK	496.57M	36.01	46.00	-9.99	-6.34	3	Horizontal	85	1.50	-	42.35	22.93	3.09	32.36

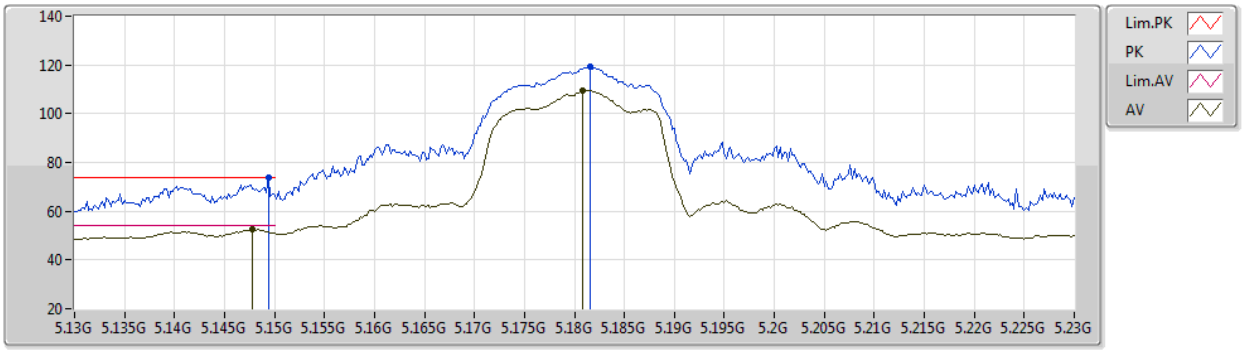
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	AV	5.1476G	53.98	54.00	-0.02	3	Vertical	187	1.34

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TX

02/07/2020



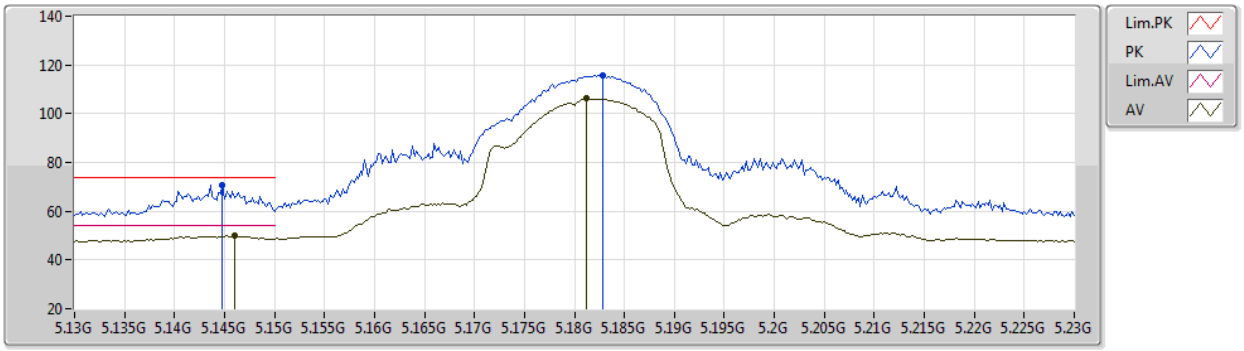
EUT X_4TX
Setting 16
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1494G	73.79	74.00	-0.21	64.75	3	Vertical	142	1.66	-	33.45	5.97	30.38
AV	5.1478G	52.41	54.00	-1.59	43.37	3	Vertical	142	1.66	-	33.45	5.97	30.38
PK	5.1816G	119.56	Inf	-Inf	110.48	3	Vertical	142	1.66	-	33.48	5.99	30.39
AV	5.1808G	109.38	Inf	-Inf	100.30	3	Vertical	142	1.66	-	33.48	5.99	30.39

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TX

02/07/2020



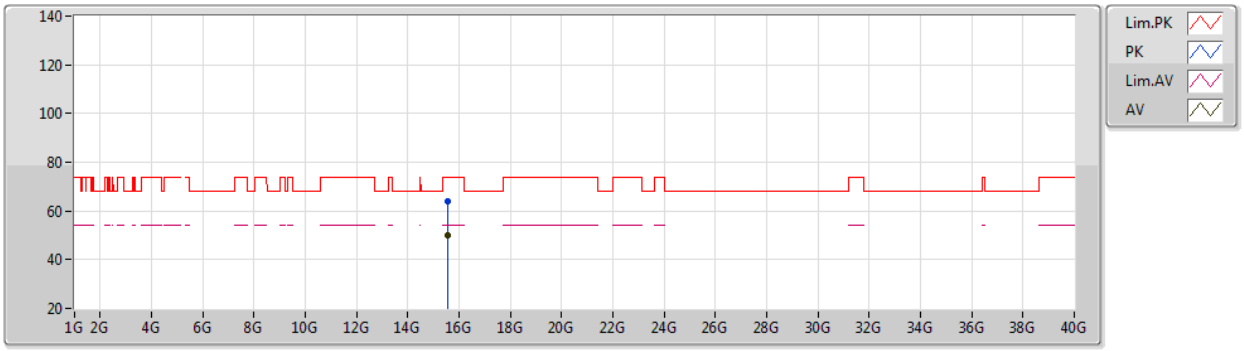
EUT X_4TX
Setting 16
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1448G	70.78	74.00	-3.22	61.75	3	Horizontal	91	1.80	-	33.44	5.97	30.38
AV	5.146G	49.83	54.00	-4.17	40.79	3	Horizontal	91	1.80	-	33.45	5.97	30.38
PK	5.1828G	115.86	Inf	-Inf	106.78	3	Horizontal	91	1.80	-	33.48	5.99	30.39
AV	5.1812G	106.23	Inf	-Inf	97.15	3	Horizontal	91	1.80	-	33.48	5.99	30.39

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TX

02/07/2020



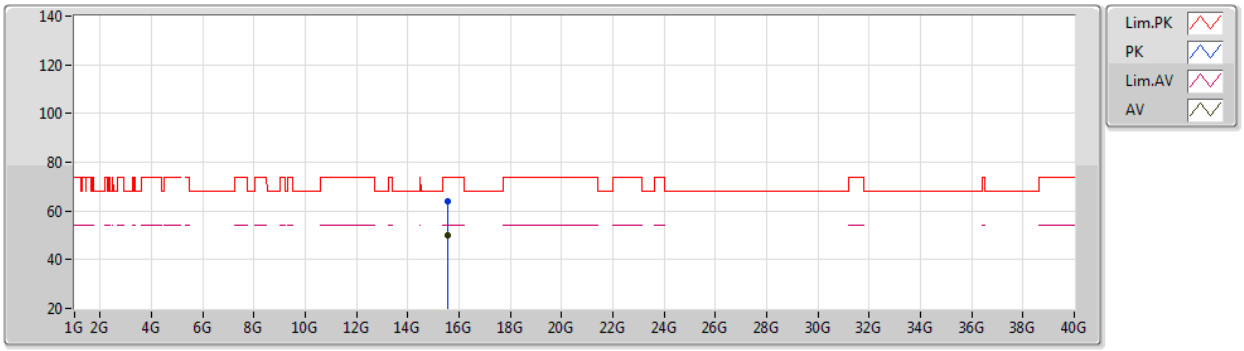
EUT X_4TX
Setting 16
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.5371G	63.87	74.00	-10.13	47.86	3	Vertical	57	1.79	-	38.74	9.25	31.98
AV	15.5347G	49.82	54.00	-4.18	33.80	3	Vertical	57	1.79	-	38.75	9.25	31.98

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TX

02/07/2020



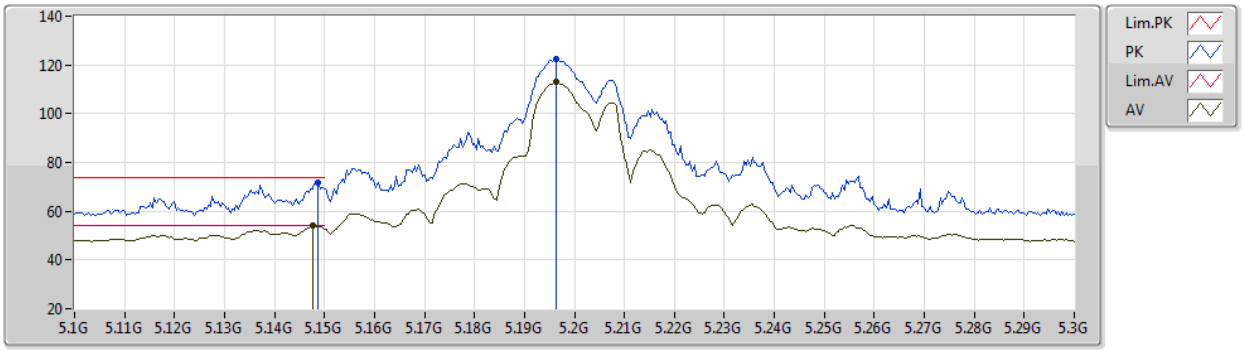
EUT X_4TX
Setting 16
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.536G	64.00	74.00	-10.00	47.98	3	Horizontal	57	1.79	-	38.75	9.25	31.98
AV	15.5336G	50.06	54.00	-3.94	34.04	3	Horizontal	57	1.79	-	38.75	9.25	31.98

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TX

02/07/2020



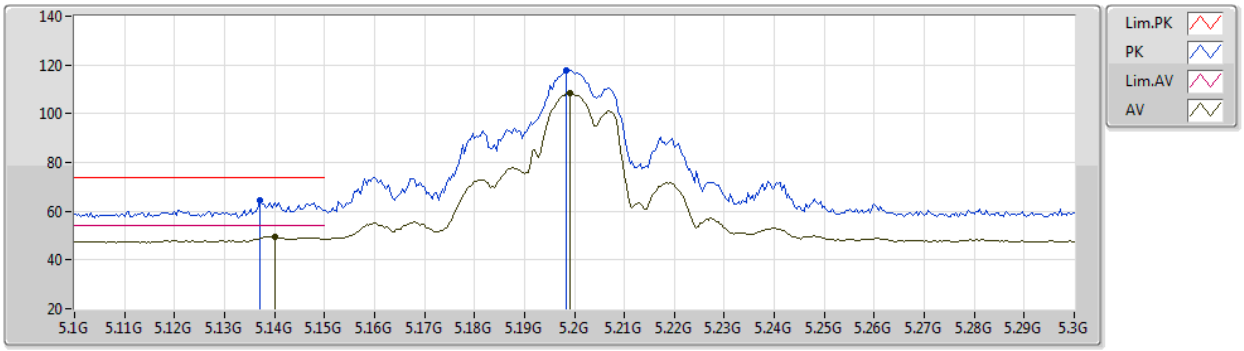
EUT X_4TX
Setting 18
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1488G	71.97	74.00	-2.03	62.93	3	Vertical	187	1.34	-	33.45	5.97	30.38
AV	5.1476G	53.98	54.00	-0.02	44.94	3	Vertical	187	1.34	-	33.45	5.97	30.38
PK	5.1964G	122.28	Inf	-Inf	113.18	3	Vertical	187	1.34	-	33.50	6.00	30.40
AV	5.1964G	112.88	Inf	-Inf	103.78	3	Vertical	187	1.34	-	33.50	6.00	30.40

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TX

02/07/2020



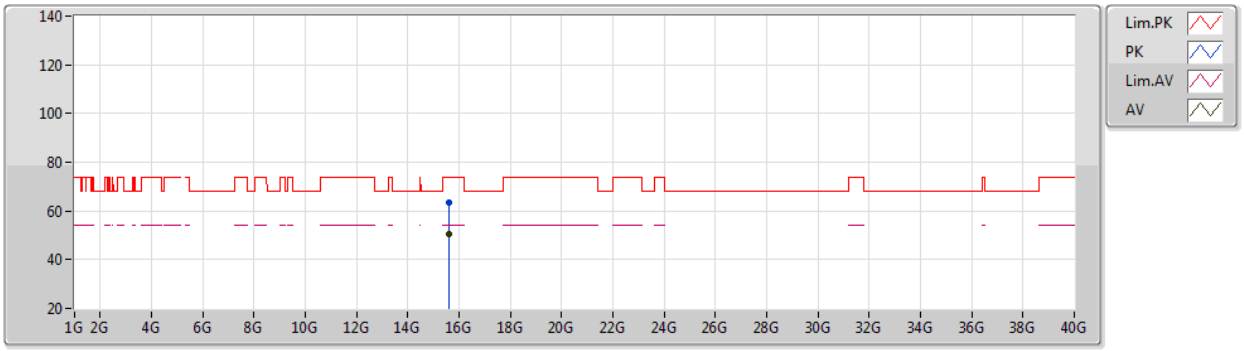
EUT X_4TX
Setting 18
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1372G	64.28	74.00	-9.72	55.25	3	Horizontal	116	1.73	-	33.44	5.97	30.38
AV	5.14G	49.38	54.00	-4.62	40.35	3	Horizontal	116	1.73	-	33.44	5.97	30.38
PK	5.1984G	117.81	Inf	-Inf	108.71	3	Horizontal	116	1.73	-	33.50	6.00	30.40
AV	5.1992G	108.65	Inf	-Inf	99.55	3	Horizontal	116	1.73	-	33.50	6.00	30.40

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TX

02/07/2020



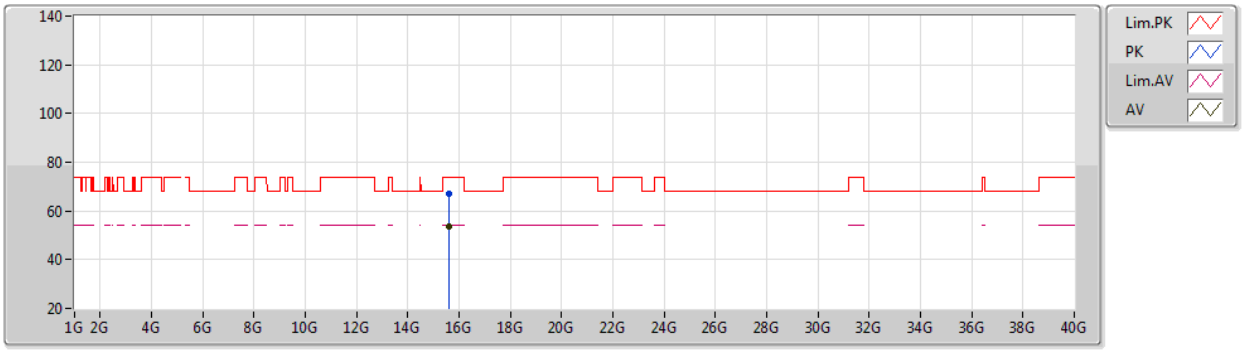
EUT X_4TX
Setting 18
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.5958G	63.63	74.00	-10.37	47.78	3	Vertical	71	1.80	-	38.57	9.27	31.99
AV	15.5956G	50.36	54.00	-3.64	34.51	3	Vertical	71	1.80	-	38.57	9.27	31.99

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TX

02/07/2020



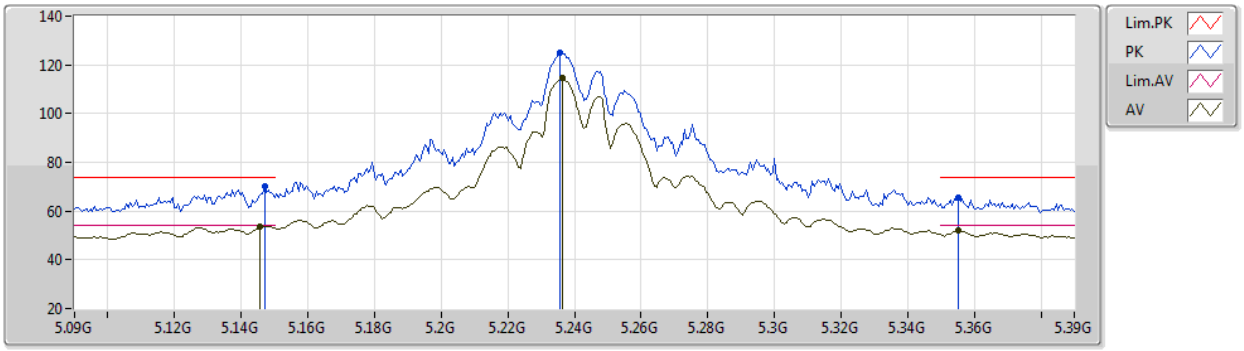
EUT X_4TX
Setting 18
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.5968G	66.93	74.00	-7.07	51.08	3	Horizontal	53	1.82	-	38.57	9.27	31.99
AV	15.5958G	53.51	54.00	-0.49	37.66	3	Horizontal	53	1.82	-	38.57	9.27	31.99

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TX

02/07/2020



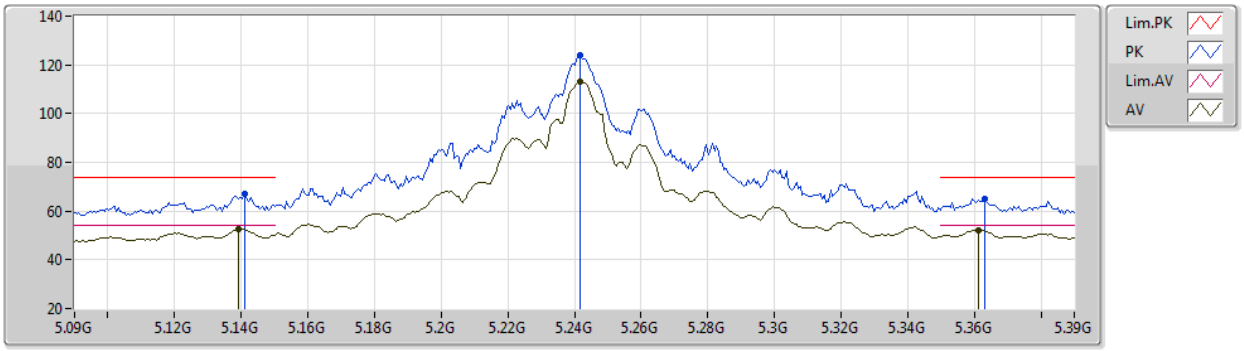
EUT X_4TX
Setting 20.5
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.147G	70.00	74.00	-4.00	60.96	3	Vertical	186	1.50	-	33.45	5.97	30.38
AV	5.1458G	53.71	54.00	-0.29	44.67	3	Vertical	186	1.50	-	33.45	5.97	30.38
PK	5.2358G	124.76	Inf	-Inf	115.58	3	Vertical	186	1.50	-	33.57	6.02	30.41
AV	5.2364G	114.46	Inf	-Inf	105.28	3	Vertical	186	1.50	-	33.57	6.02	30.41
PK	5.3552G	65.60	74.00	-8.40	56.22	3	Vertical	186	1.50	-	33.76	6.08	30.46
AV	5.3552G	51.92	54.00	-2.08	42.54	3	Vertical	186	1.50	-	33.76	6.08	30.46

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TX

02/07/2020



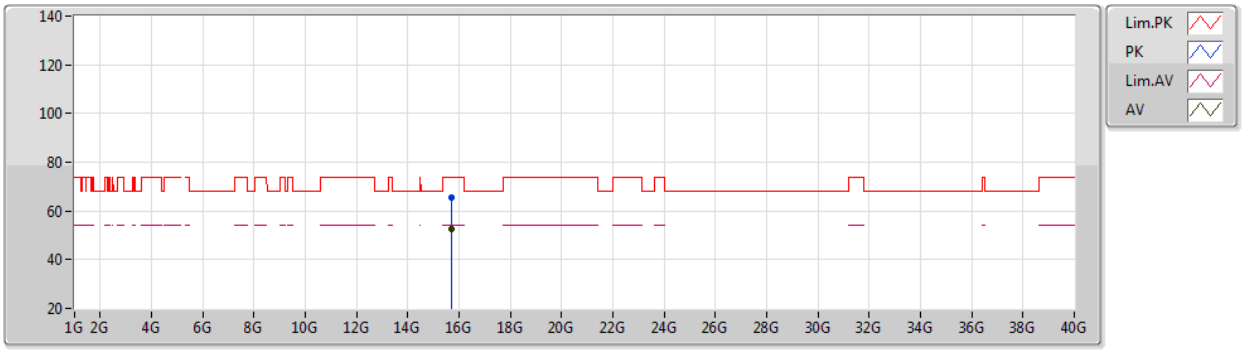
EUT X_4TX
Setting 20.5
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.141G	66.99	74.00	-7.01	57.96	3	Horizontal	291	1.35	-	33.44	5.97	30.38
AV	5.1392G	52.78	54.00	-1.22	43.75	3	Horizontal	291	1.35	-	33.44	5.97	30.38
PK	5.2418G	123.75	Inf	-Inf	114.57	3	Horizontal	291	1.35	-	33.58	6.02	30.42
AV	5.2418G	113.05	Inf	-Inf	103.87	3	Horizontal	291	1.35	-	33.58	6.02	30.42
PK	5.363G	64.89	74.00	-9.11	55.51	3	Horizontal	291	1.35	-	33.76	6.08	30.46
AV	5.3612G	52.28	54.00	-1.72	42.90	3	Horizontal	291	1.35	-	33.76	6.08	30.46

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TX

02/07/2020



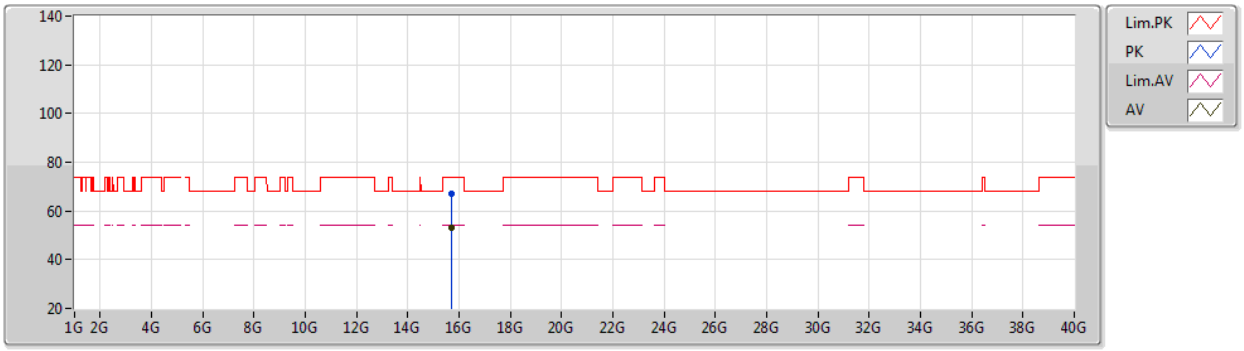
EUT X_4TX
Setting 20.5
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.71484G	65.65	74.00	-8.35	50.13	3	Vertical	106	1.95	-	38.23	9.31	32.02
AV	15.71454G	52.33	54.00	-1.67	36.81	3	Vertical	106	1.95	-	38.23	9.31	32.02

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TX

02/07/2020



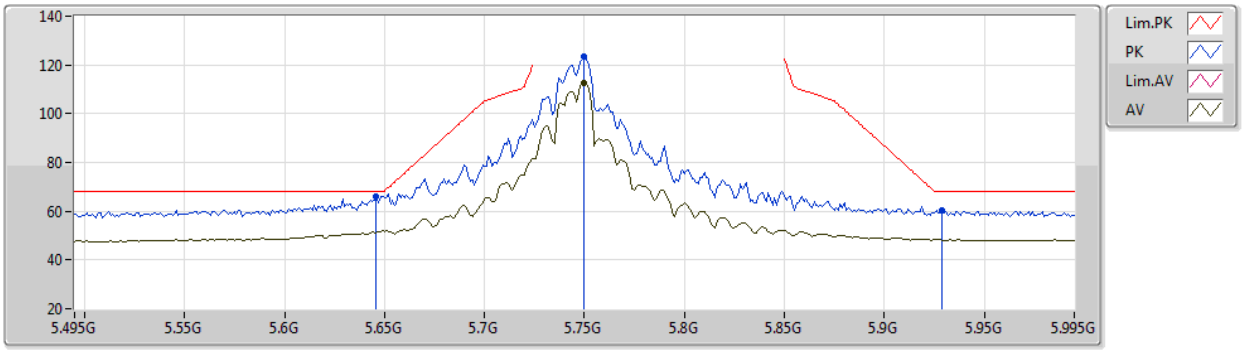
EUT X_4TX
Setting 20.5
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.7283G	66.86	74.00	-7.14	51.38	3	Horizontal	54	1.80	-	38.19	9.31	32.02
AV	15.7277G	52.87	54.00	-1.13	37.39	3	Horizontal	54	1.80	-	38.19	9.31	32.02

802.11a_Nss1,(6Mbps)_4TX

5745MHz_TX

02/07/2020



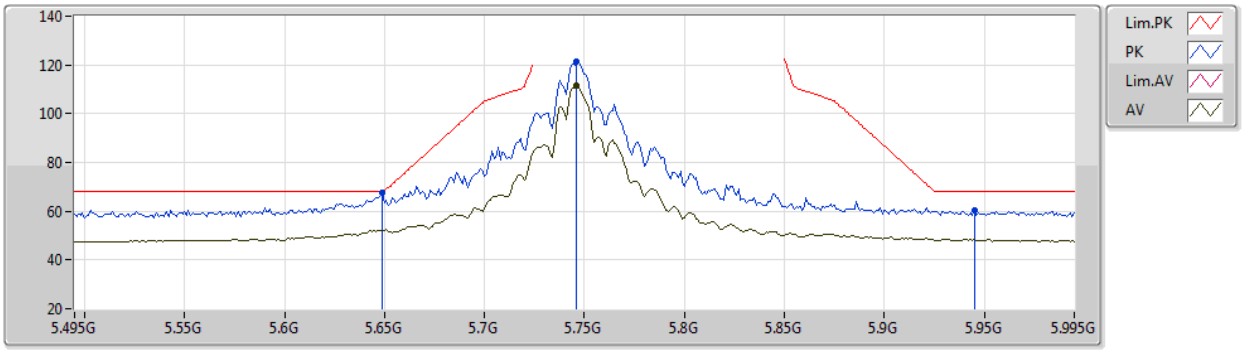
EUT X_4TX
Setting 21.5
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.646G	66.13	68.20	-2.07	56.50	3	Vertical	360	1.38	-	33.85	6.32	30.54
PK	5.75G	123.33	Inf	-Inf	113.73	3	Vertical	360	1.38	-	33.80	6.37	30.57
AV	5.75G	112.77	Inf	-Inf	103.17	3	Vertical	360	1.38	-	33.80	6.37	30.57
PK	5.929G	60.40	68.20	-7.80	50.55	3	Vertical	360	1.38	-	34.13	6.34	30.62

802.11a_Nss1,(6Mbps)_4TX

5745MHz_TX

02/07/2020



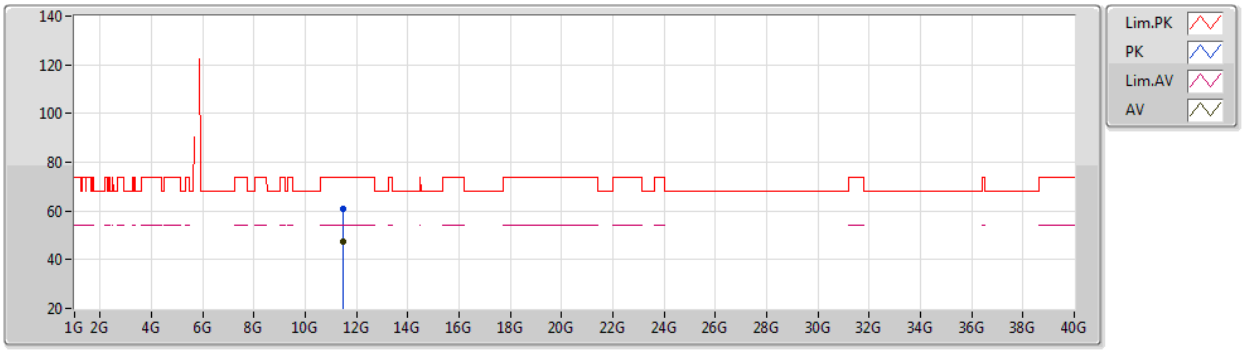
EUT X_4TX
Setting 21.5
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.649G	67.81	68.20	-0.39	58.18	3	Horizontal	84	2.95	-	33.85	6.32	30.54
PK	5.746G	121.45	Inf	-Inf	111.85	3	Horizontal	84	2.95	-	33.80	6.37	30.57
AV	5.746G	111.59	Inf	-Inf	101.99	3	Horizontal	84	2.95	-	33.80	6.37	30.57
PK	5.945G	60.14	68.20	-8.06	50.28	3	Horizontal	84	2.95	-	34.15	6.33	30.62

802.11a_Nss1,(6Mbps)_4TX

5745MHz_TX

02/07/2020



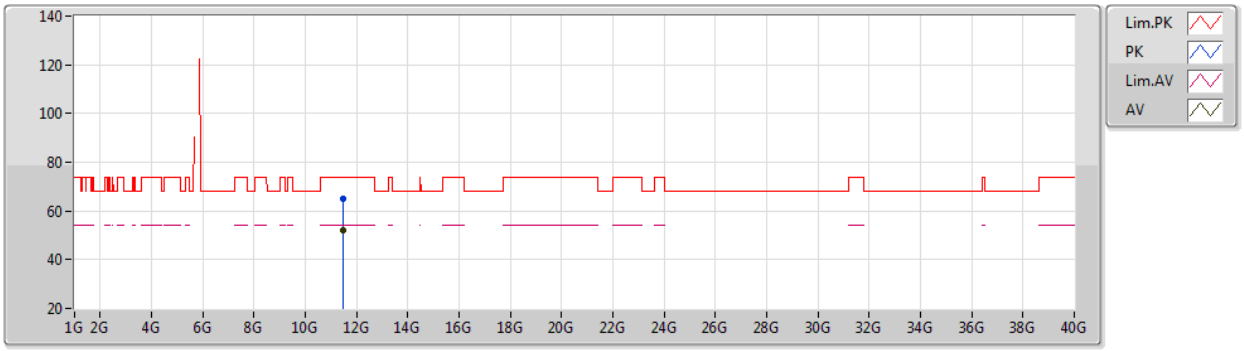
EUT X_4TX
Setting 21.5
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.49444G	60.92	74.00	-13.08	44.77	3	Vertical	70	1.29	-	38.90	8.85	31.60
AV	11.4939G	47.54	54.00	-6.46	31.39	3	Vertical	70	1.29	-	38.90	8.85	31.60

802.11a_Nss1,(6Mbps)_4TX

5745MHz_TX

02/07/2020



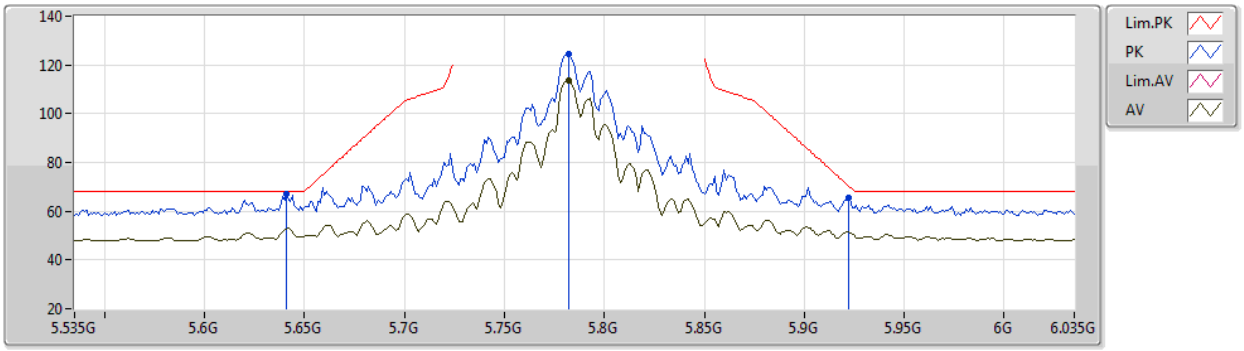
EUT X_4TX
Setting 21.5
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.49258G	65.23	74.00	-8.77	49.09	3	Horizontal	35	1.71	-	38.89	8.85	31.60
AV	11.49204G	52.11	54.00	-1.89	35.97	3	Horizontal	35	1.71	-	38.89	8.85	31.60

802.11a_Nss1,(6Mbps)_4TX

5785MHz_TX

02/07/2020



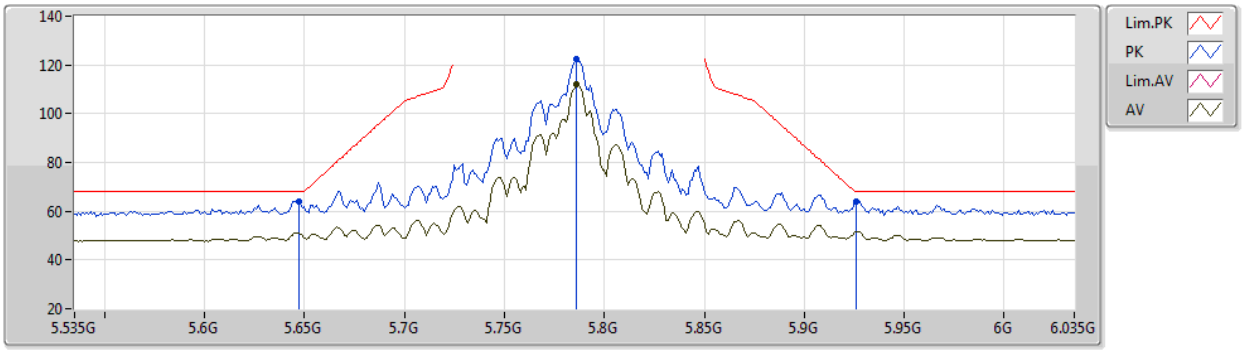
EUT X_4TX
Setting 23
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.641G	67.20	68.20	-1.00	57.56	3	Vertical	117	2.07	-	33.86	6.32	30.54
PK	5.782G	124.62	Inf	-Inf	115.01	3	Vertical	117	2.07	-	33.80	6.39	30.58
AV	5.782G	113.83	Inf	-Inf	104.22	3	Vertical	117	2.07	-	33.80	6.39	30.58
PK	5.922G	65.54	70.42	-4.88	55.69	3	Vertical	117	2.07	-	34.12	6.34	30.61

802.11a_Nss1,(6Mbps)_4TX

5785MHz_TX

02/07/2020



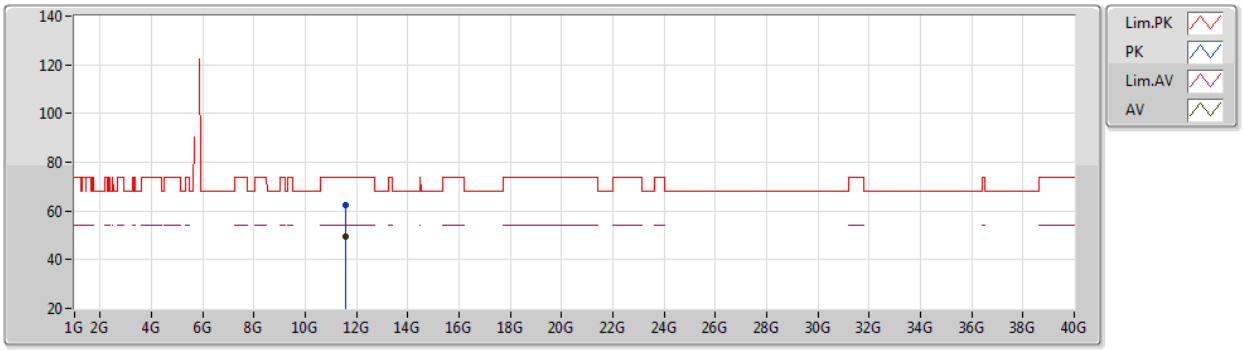
EUT X_4TX
Setting 23
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.647G	64.14	68.20	-4.06	54.51	3	Horizontal	73	2.93	-	33.85	6.32	30.54
PK	5.786G	122.42	Inf	-Inf	112.81	3	Horizontal	73	2.93	-	33.80	6.39	30.58
AV	5.786G	111.96	Inf	-Inf	102.35	3	Horizontal	73	2.93	-	33.80	6.39	30.58
PK	5.926G	64.07	68.20	-4.13	54.22	3	Horizontal	73	2.93	-	34.13	6.34	30.62

802.11a_Nss1,(6Mbps)_4TX

5785MHz_TX

02/07/2020



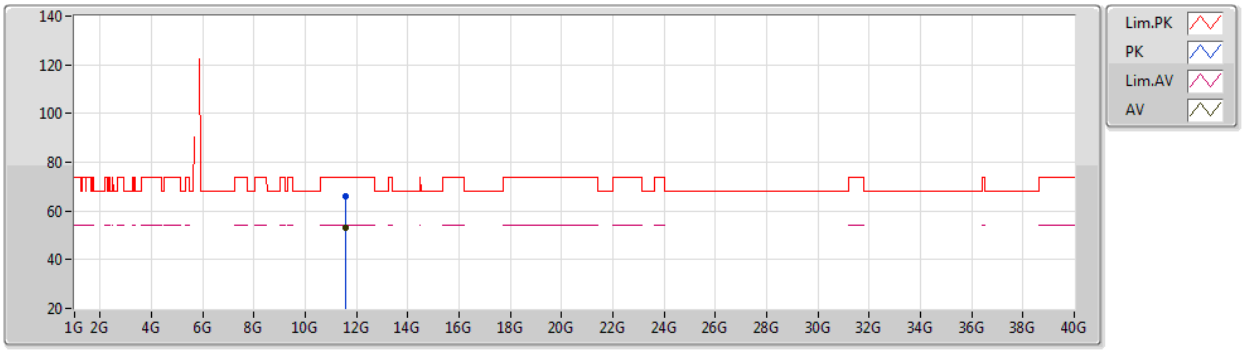
EUT X_4TX
Setting 23
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5739G	62.31	74.00	-11.69	46.10	3	Vertical	73	1.48	-	38.96	8.88	31.63
AV	11.57348G	49.38	54.00	-4.62	33.17	3	Vertical	73	1.48	-	38.96	8.88	31.63

802.11a_Nss1,(6Mbps)_4TX

5785MHz_TX

02/07/2020



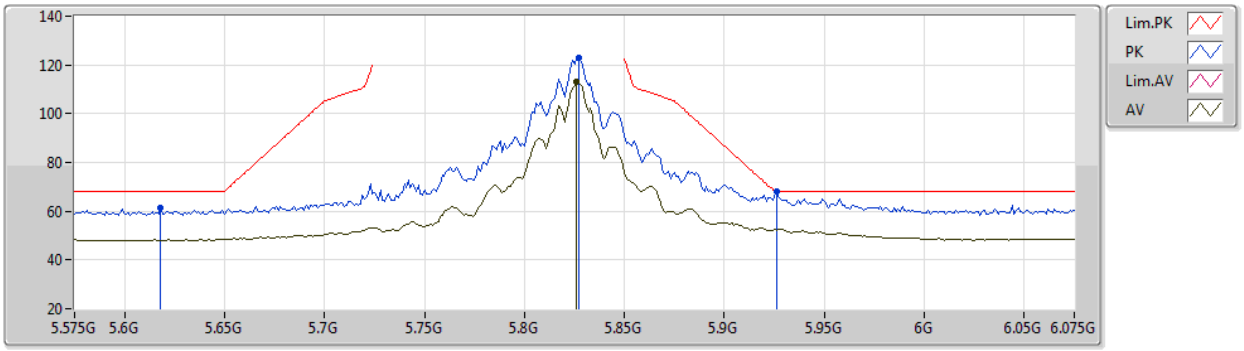
EUT X_4TX
Setting 23
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.57192G	66.02	74.00	-7.98	49.81	3	Horizontal	41	1.75	-	38.96	8.88	31.63
AV	11.5724G	53.06	54.00	-0.94	36.85	3	Horizontal	41	1.75	-	38.96	8.88	31.63

802.11a_Nss1,(6Mbps)_4TX

5825MHz_TX

02/07/2020



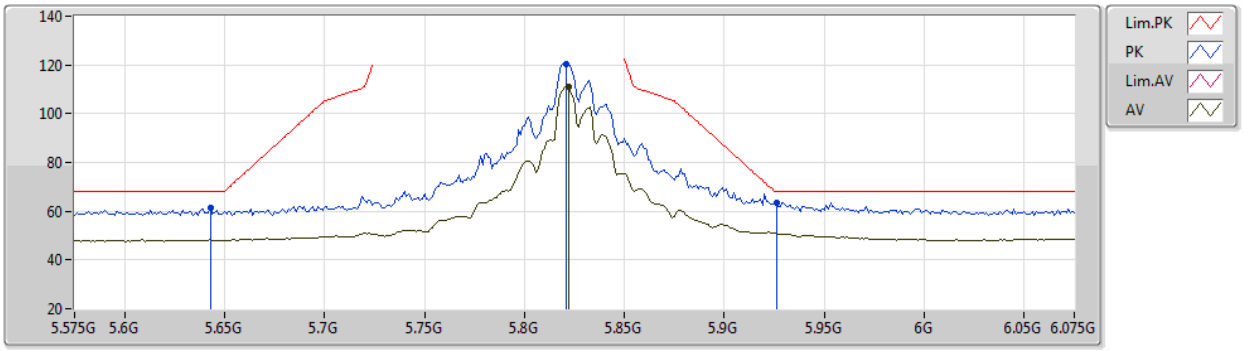
EUT X_4TX
Setting 21
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.618G	61.60	68.20	-6.60	51.95	3	Vertical	195	1.89	-	33.88	6.31	30.54
PK	5.827G	123.15	Inf	-Inf	113.47	3	Vertical	195	1.89	-	33.88	6.39	30.59
AV	5.826G	112.92	Inf	-Inf	103.24	3	Vertical	195	1.89	-	33.88	6.39	30.59
PK	5.926G	67.92	68.20	-0.28	58.07	3	Vertical	195	1.89	-	34.13	6.34	30.62

802.11a_Nss1,(6Mbps)_4TX

5825MHz_TX

02/07/2020



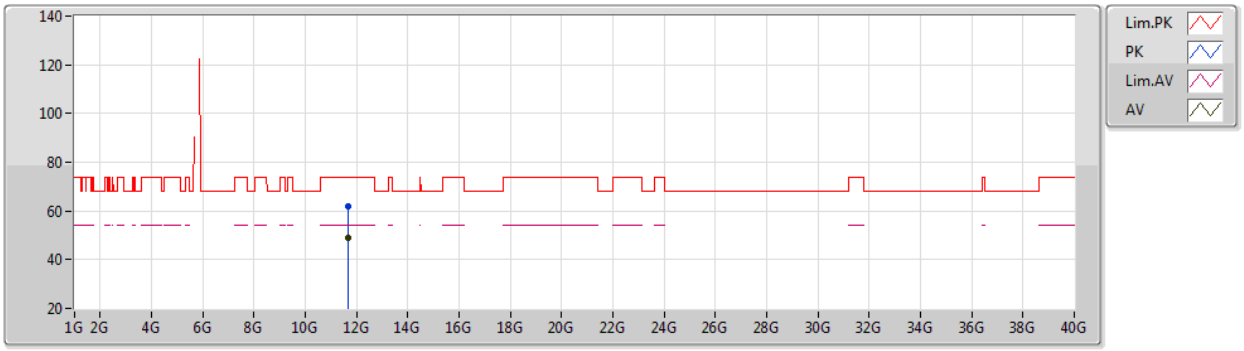
EUT X_4TX
Setting 21
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.643G	61.16	68.20	-7.04	51.52	3	Horizontal	89	1.95	-	33.86	6.32	30.54
PK	5.821G	120.57	Inf	-Inf	110.91	3	Horizontal	89	1.95	-	33.86	6.39	30.59
AV	5.822G	111.12	Inf	-Inf	101.45	3	Horizontal	89	1.95	-	33.87	6.39	30.59
PK	5.926G	63.69	68.20	-4.51	53.84	3	Horizontal	89	1.95	-	34.13	6.34	30.62

802.11a_Nss1,(6Mbps)_4TX

5825MHz_TX

02/07/2020



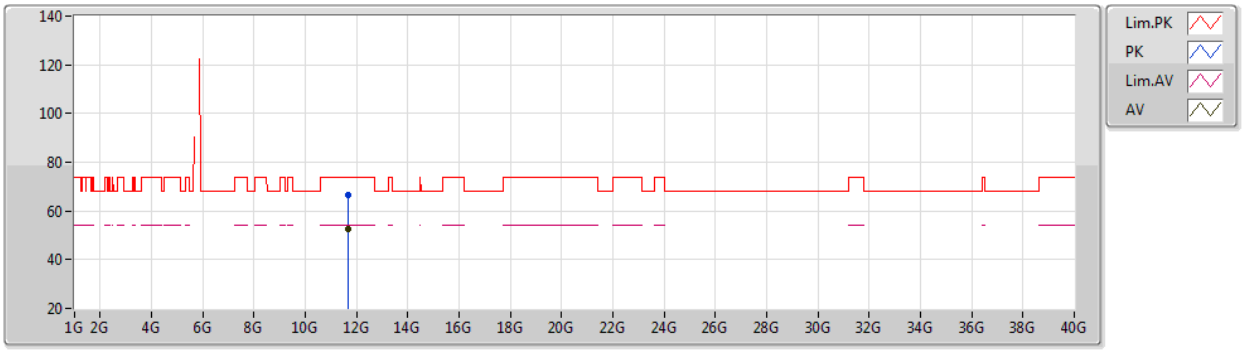
EUT X_4TX
Setting 21
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.65246G	61.83	74.00	-12.17	45.56	3	Vertical	73	1.69	-	39.02	8.90	31.65
AV	11.6527G	48.81	54.00	-5.19	32.54	3	Vertical	73	1.69	-	39.02	8.90	31.65

802.11a_Nss1,(6Mbps)_4TX

5825MHz_TX

02/07/2020



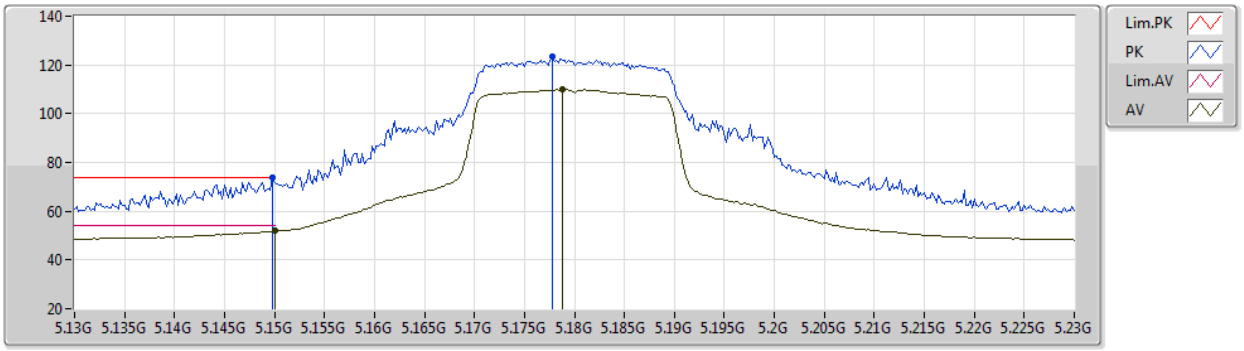
EUT X_4TX
Setting 21
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6506G	66.76	74.00	-7.24	50.49	3	Horizontal	42	1.63	-	39.02	8.90	31.65
AV	11.65174G	52.47	54.00	-1.53	36.20	3	Horizontal	42	1.63	-	39.02	8.90	31.65

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5180MHz_TX

02/07/2020



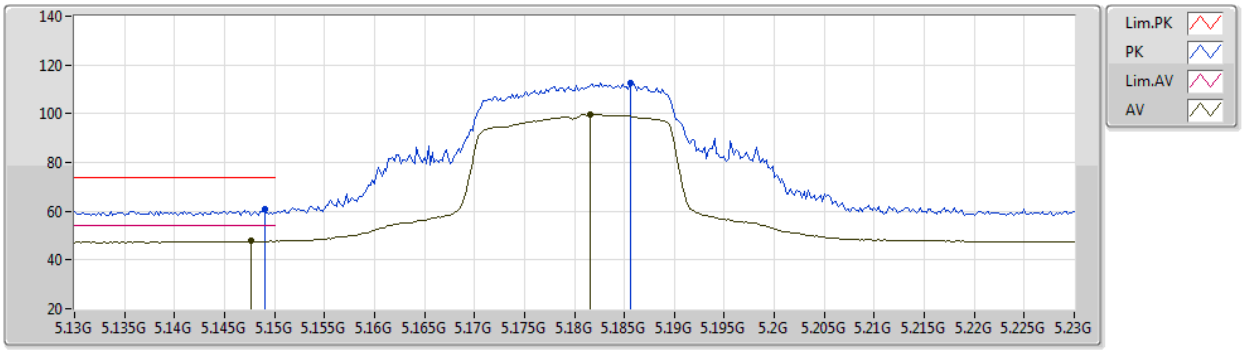
EUT X_4TX
Setting 31
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1498G	73.74	74.00	-0.26	64.70	3	Vertical	189	2.24	-	33.45	5.97	30.38
AV	5.15G	51.82	54.00	-2.18	42.78	3	Vertical	189	2.24	-	33.45	5.97	30.38
PK	5.1778G	123.67	Inf	-Inf	114.59	3	Vertical	189	2.24	-	33.48	5.99	30.39
AV	5.1788G	109.95	Inf	-Inf	100.87	3	Vertical	189	2.24	-	33.48	5.99	30.39

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5180MHz_TX

02/07/2020



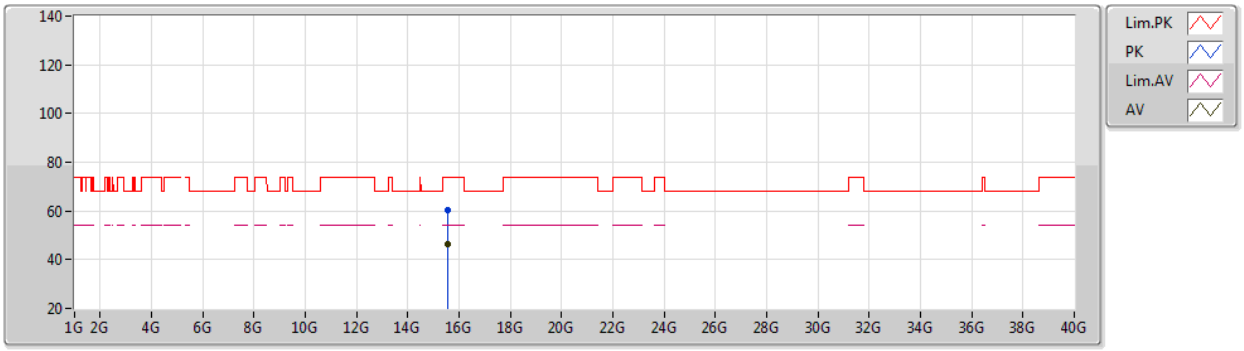
EUT X_4TX
Setting 31
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.149G	61.08	74.00	-12.92	52.04	3	Horizontal	54	1.91	-	33.45	5.97	30.38
AV	5.1476G	47.71	54.00	-6.29	38.67	3	Horizontal	54	1.91	-	33.45	5.97	30.38
PK	5.1856G	112.51	Inf	-Inf	103.43	3	Horizontal	54	1.91	-	33.49	5.99	30.40
AV	5.1816G	99.55	Inf	-Inf	90.47	3	Horizontal	54	1.91	-	33.48	5.99	30.39

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5180MHz_TX

02/07/2020



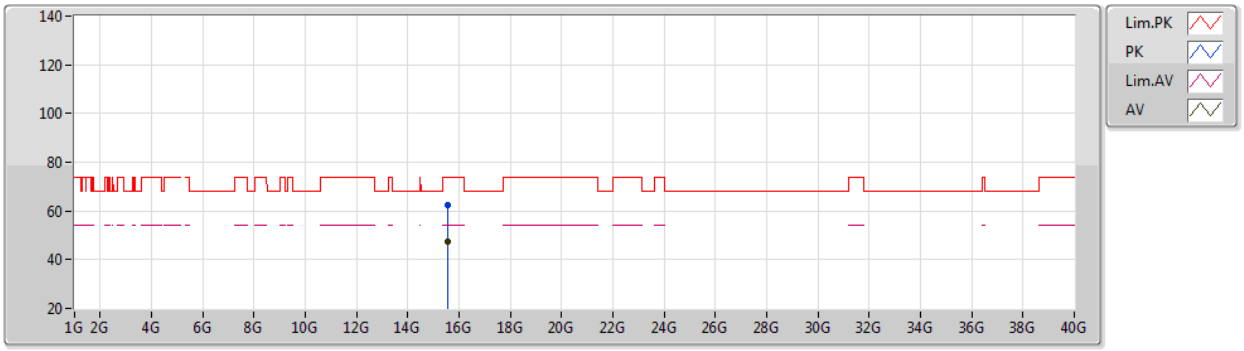
EUT X_4TX
Setting 31
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.54212G	60.50	74.00	-13.50	44.50	3	Vertical	226	2.82	-	38.73	9.25	31.98
AV	15.53775G	46.19	54.00	-7.81	30.18	3	Vertical	226	2.82	-	38.74	9.25	31.98

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5180MHz_TX

02/07/2020



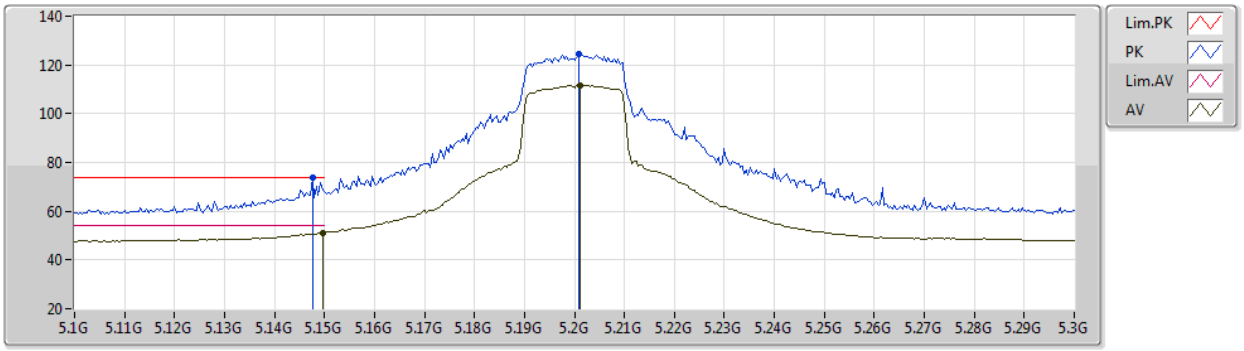
EUT X_4TX
Setting 31
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.53832G	62.32	74.00	-11.68	46.31	3	Horizontal	53	2.06	-	38.74	9.25	31.98
AV	15.53898G	47.17	54.00	-6.83	31.16	3	Horizontal	53	2.06	-	38.74	9.25	31.98

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5200MHz_TX

02/07/2020



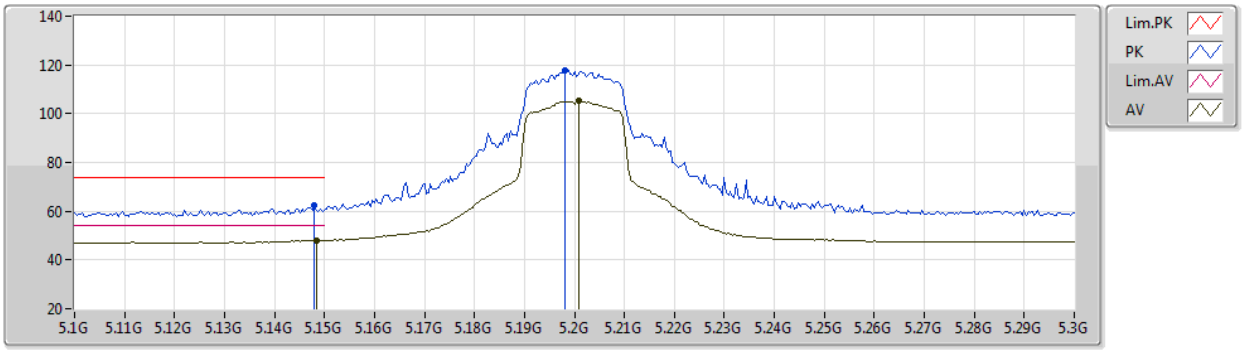
EUT X_4TX
Setting 35
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1476G	73.75	74.00	-0.25	64.71	3	Vertical	187	2.07	-	33.45	5.97	30.38
AV	5.1496G	51.20	54.00	-2.80	42.16	3	Vertical	187	2.07	-	33.45	5.97	30.38
PK	5.2008G	124.53	Inf	-Inf	115.43	3	Vertical	187	2.07	-	33.50	6.00	30.40
AV	5.2012G	111.79	Inf	-Inf	102.69	3	Vertical	187	2.07	-	33.50	6.00	30.40

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5200MHz_TX

02/07/2020



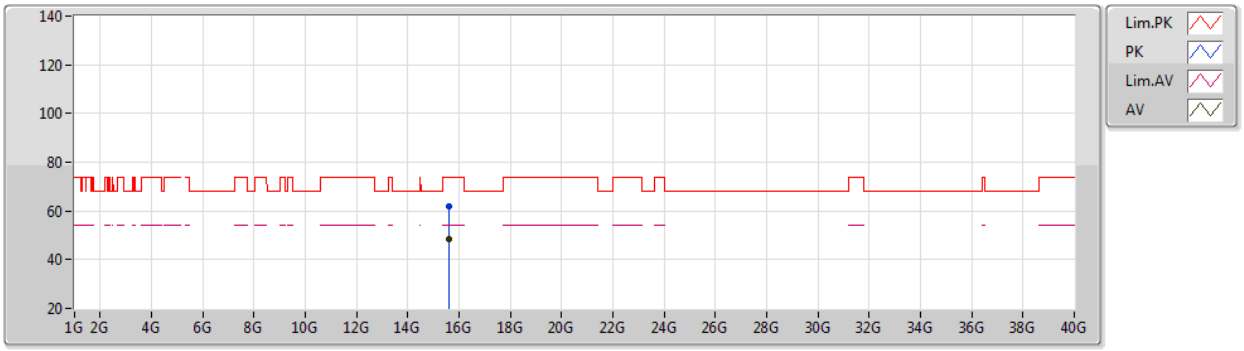
EUT X_4TX
Setting 35
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.148G	62.55	74.00	-11.45	53.51	3	Horizontal	43	2.59	-	33.45	5.97	30.38
AV	5.1484G	47.94	54.00	-6.06	38.90	3	Horizontal	43	2.59	-	33.45	5.97	30.38
PK	5.198G	117.75	Inf	-Inf	108.65	3	Horizontal	43	2.59	-	33.50	6.00	30.40
AV	5.2008G	105.24	Inf	-Inf	96.14	3	Horizontal	43	2.59	-	33.50	6.00	30.40

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5200MHz_TX

02/07/2020



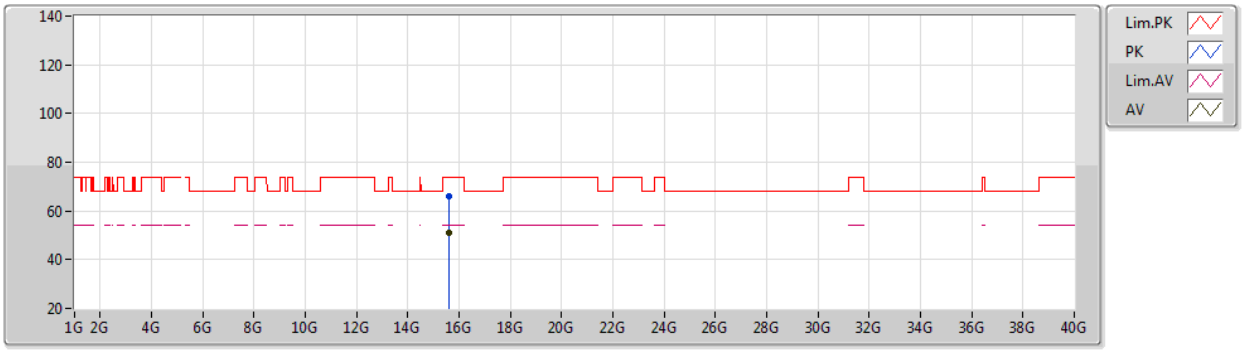
EUT X_4TX
Setting 35
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.5935G	61.91	74.00	-12.09	46.05	3	Vertical	50	1.30	-	38.58	9.27	31.99
AV	15.5979G	48.20	54.00	-5.80	32.35	3	Vertical	50	1.30	-	38.57	9.27	31.99

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5200MHz_TX

02/07/2020



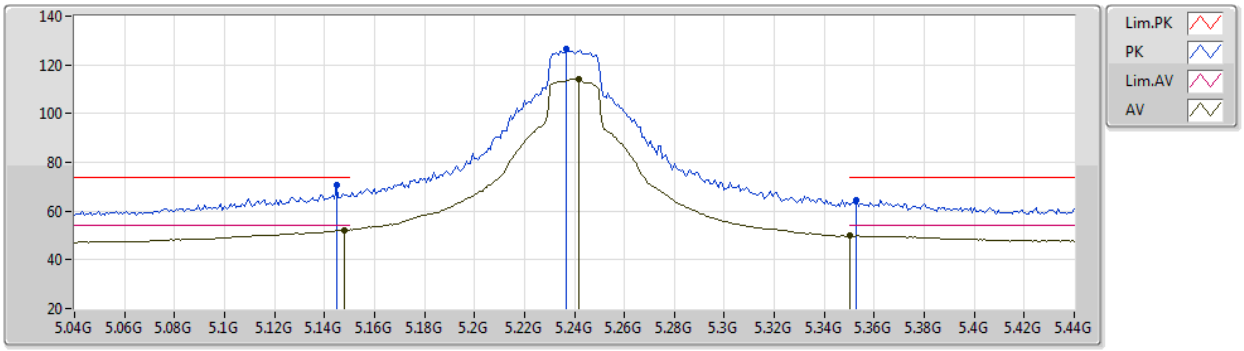
EUT X_4TX
Setting 35
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.6003G	66.08	74.00	-7.92	50.24	3	Horizontal	54	2.07	-	38.56	9.27	31.99
AV	15.5976G	51.16	54.00	-2.84	35.31	3	Horizontal	54	2.07	-	38.57	9.27	31.99

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5240MHz_TX

02/07/2020



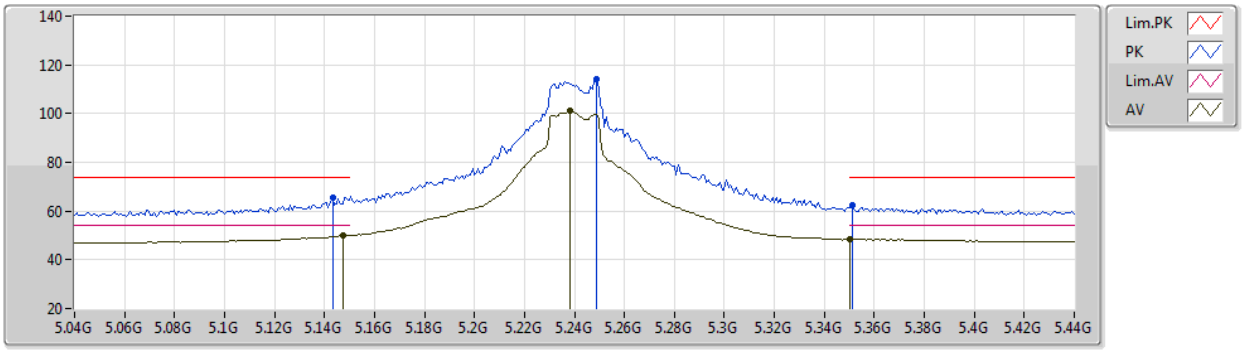
EUT X_4TX
Setting 41
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1448G	70.58	74.00	-3.42	61.55	3	Vertical	186	1.41	-	33.44	5.97	30.38
AV	5.148G	52.11	54.00	-1.89	43.07	3	Vertical	186	1.41	-	33.45	5.97	30.38
PK	5.2368G	126.61	Inf	-Inf	117.43	3	Vertical	186	1.41	-	33.57	6.02	30.41
AV	5.2416G	114.26	Inf	-Inf	105.08	3	Vertical	186	1.41	-	33.58	6.02	30.42
PK	5.3528G	64.45	74.00	-9.55	55.08	3	Vertical	186	1.41	-	33.75	6.08	30.46
AV	5.35G	49.82	54.00	-4.18	40.45	3	Vertical	186	1.41	-	33.75	6.08	30.46

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5240MHz_TX

02/07/2020



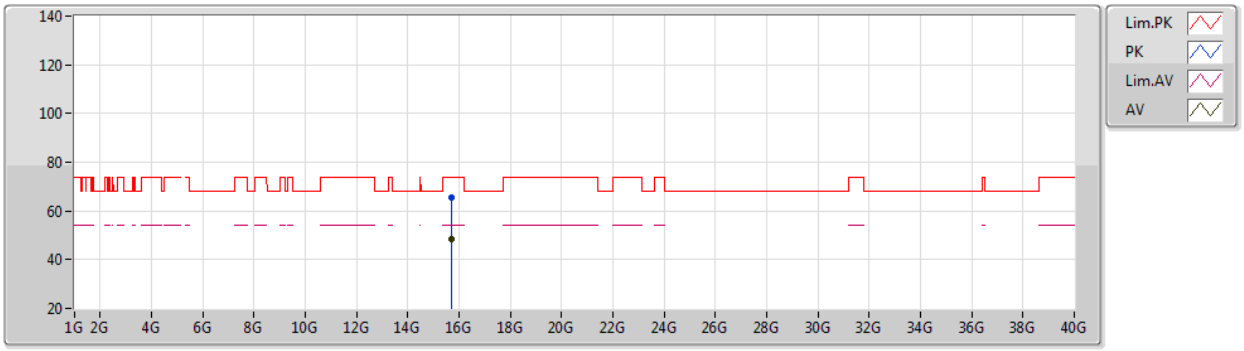
EUT X_4TX
Setting 41
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1432G	65.67	74.00	-8.33	56.64	3	Horizontal	115	1.80	-	33.44	5.97	30.38
AV	5.1472G	50.04	54.00	-3.96	41.00	3	Horizontal	115	1.80	-	33.45	5.97	30.38
PK	5.2488G	114.17	Inf	-Inf	104.97	3	Horizontal	115	1.80	-	33.60	6.02	30.42
AV	5.2384G	101.15	Inf	-Inf	91.97	3	Horizontal	115	1.80	-	33.58	6.02	30.42
PK	5.3512G	62.67	74.00	-11.33	53.30	3	Horizontal	115	1.80	-	33.75	6.08	30.46
AV	5.35G	48.42	54.00	-5.58	39.05	3	Horizontal	115	1.80	-	33.75	6.08	30.46

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5240MHz_TX

02/07/2020



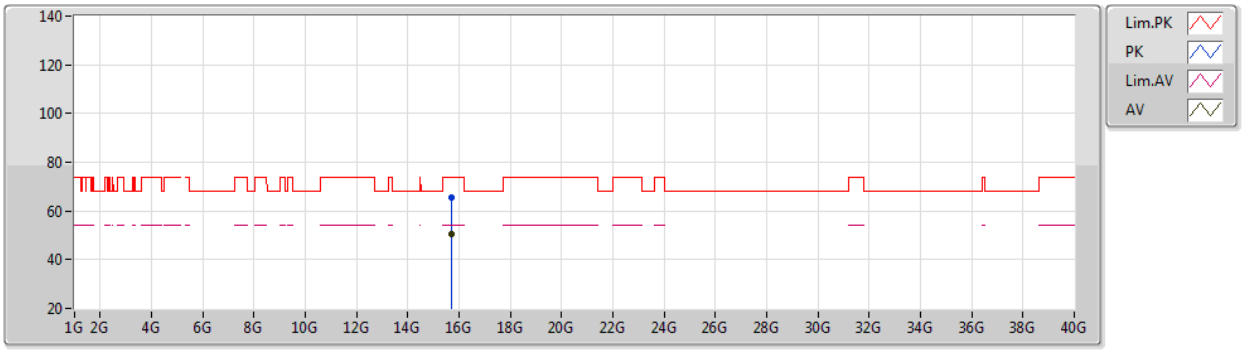
EUT X_4TX
Setting 41
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.7184G	65.37	74.00	-8.63	49.86	3	Vertical	108	2.12	-	38.22	9.31	32.02
AV	15.7185G	48.33	54.00	-5.67	32.82	3	Vertical	108	2.12	-	38.22	9.31	32.02

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5240MHz_TX

02/07/2020



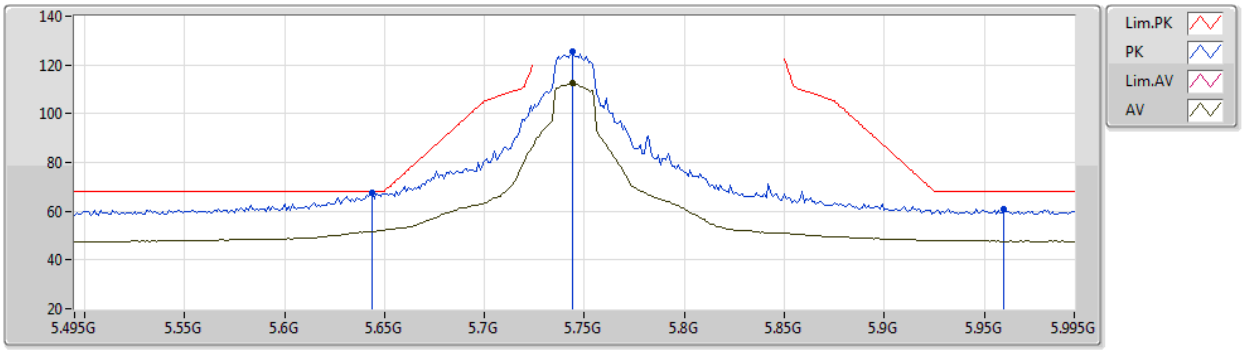
EUT X_4TX
Setting 41
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.7204G	65.49	74.00	-8.51	49.99	3	Horizontal	42	1.78	-	38.21	9.31	32.02
AV	15.7184G	50.51	54.00	-3.49	35.00	3	Horizontal	42	1.78	-	38.22	9.31	32.02

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5745MHz_TX

02/07/2020



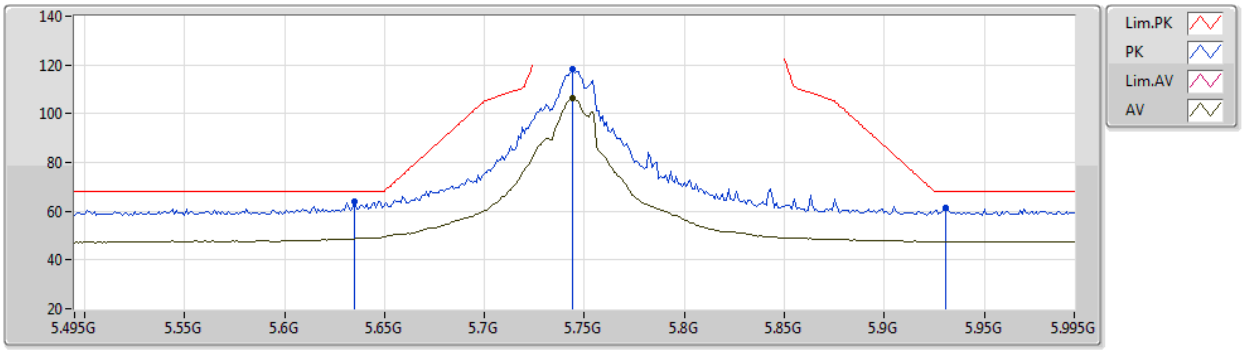
EUT X_4TX
Setting 44
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.644G	67.81	68.20	-0.39	58.17	3	Vertical	182	1.63	-	33.86	6.32	30.54
PK	5.744G	125.35	Inf	-Inf	115.75	3	Vertical	182	1.63	-	33.80	6.37	30.57
AV	5.744G	112.53	Inf	-Inf	102.93	3	Vertical	182	1.63	-	33.80	6.37	30.57
PK	5.96G	60.97	68.20	-7.23	51.11	3	Vertical	182	1.63	-	34.16	6.32	30.62

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5745MHz_TX

02/07/2020



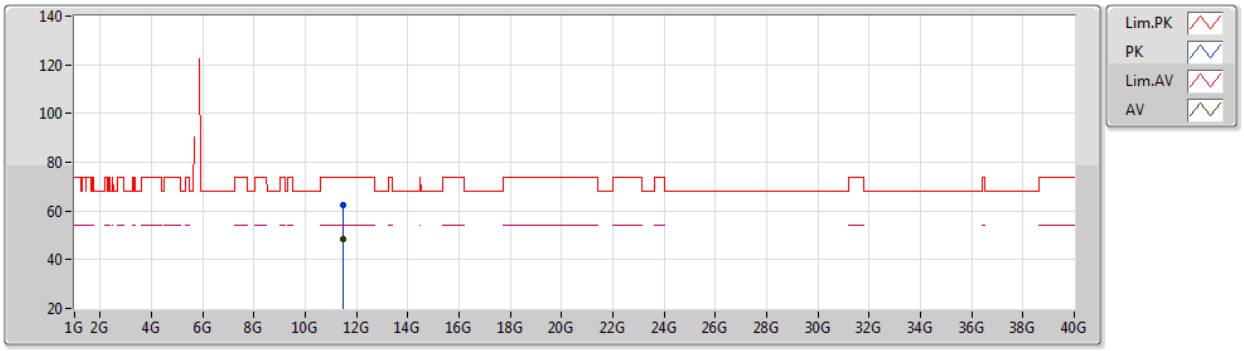
EUT X_4TX
Setting 44
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.635G	63.91	68.20	-4.29	54.27	3	Horizontal	64	1.67	-	33.86	6.32	30.54
PK	5.744G	118.12	Inf	-Inf	108.52	3	Horizontal	64	1.67	-	33.80	6.37	30.57
AV	5.744G	106.13	Inf	-Inf	96.53	3	Horizontal	64	1.67	-	33.80	6.37	30.57
PK	5.931G	61.47	68.20	-6.73	51.63	3	Horizontal	64	1.67	-	34.13	6.33	30.62

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5745MHz_TX

02/07/2020



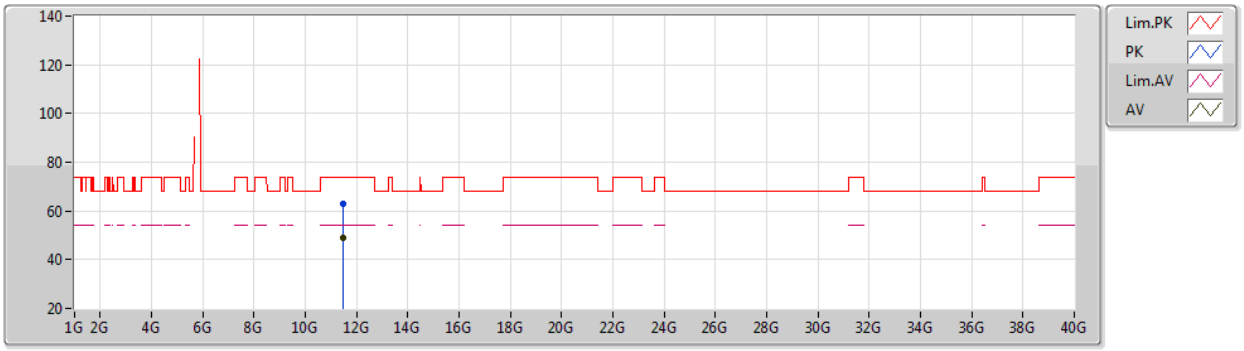
EUT X_4TX
Setting 44
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4955G	62.20	74.00	-11.80	46.05	3	Vertical	78	2.01	-	38.90	8.85	31.60
AV	11.4927G	48.29	54.00	-5.71	32.15	3	Vertical	78	2.01	-	38.89	8.85	31.60

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5745MHz_TX

02/07/2020



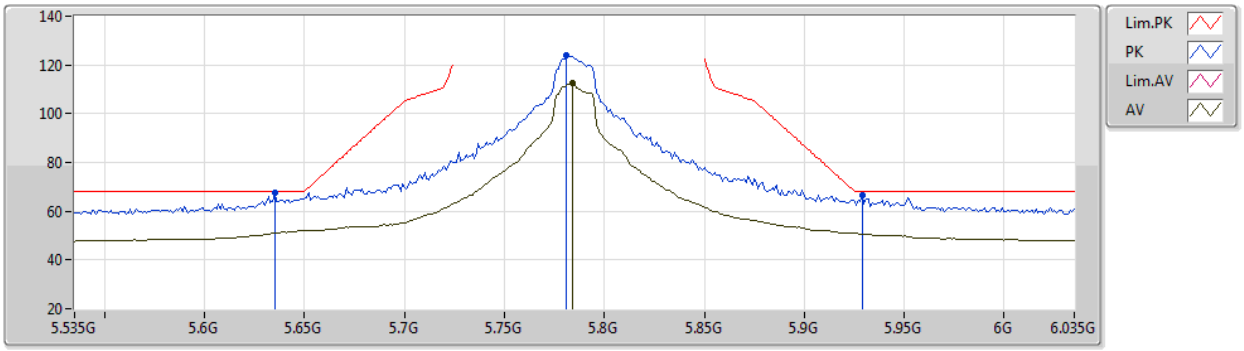
EUT X_4TX
Setting 44
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4932G	63.01	74.00	-10.99	46.87	3	Horizontal	33	1.41	-	38.89	8.85	31.60
AV	11.493G	48.78	54.00	-5.22	32.64	3	Horizontal	33	1.41	-	38.89	8.85	31.60

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5785MHz_TX

02/07/2020



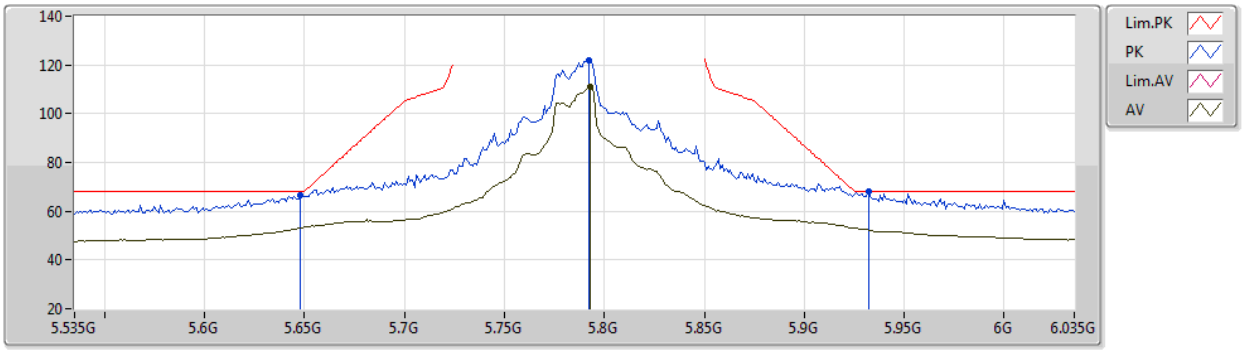
EUT X_4TX
Setting 47
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.635G	67.83	68.20	-0.37	58.19	3	Vertical	273	1.83	-	33.86	6.32	30.54
PK	5.781G	123.99	Inf	-Inf	114.38	3	Vertical	273	1.83	-	33.80	6.39	30.58
AV	5.784G	112.63	Inf	-Inf	103.02	3	Vertical	273	1.83	-	33.80	6.39	30.58
PK	5.929G	66.30	68.20	-1.90	56.45	3	Vertical	273	1.83	-	34.13	6.34	30.62

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5785MHz_TX

02/07/2020



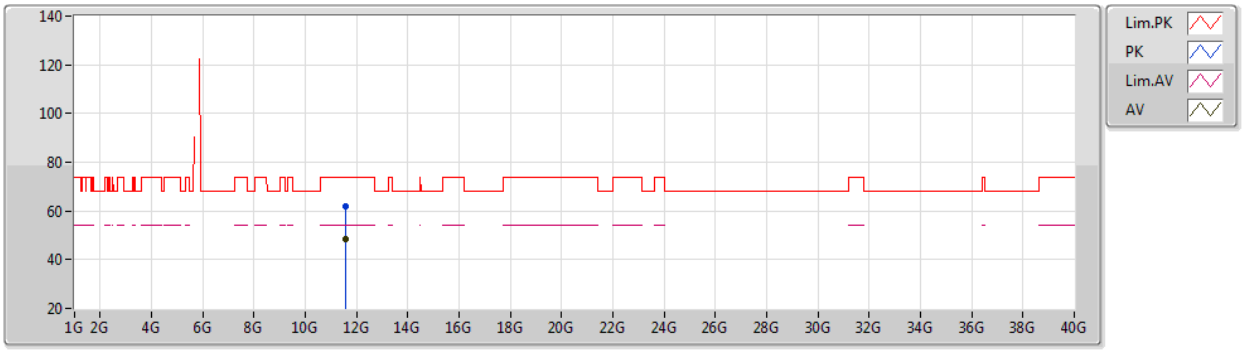
EUT X_4TX
Setting 47
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.648G	66.64	68.20	-1.56	57.01	3	Horizontal	98	2.10	-	33.85	6.32	30.54
PK	5.792G	121.68	Inf	-Inf	112.06	3	Horizontal	98	2.10	-	33.80	6.40	30.58
AV	5.793G	111.04	Inf	-Inf	101.42	3	Horizontal	98	2.10	-	33.80	6.40	30.58
PK	5.932G	67.95	68.20	-0.25	58.11	3	Horizontal	98	2.10	-	34.13	6.33	30.62

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5785MHz_TX

02/07/2020



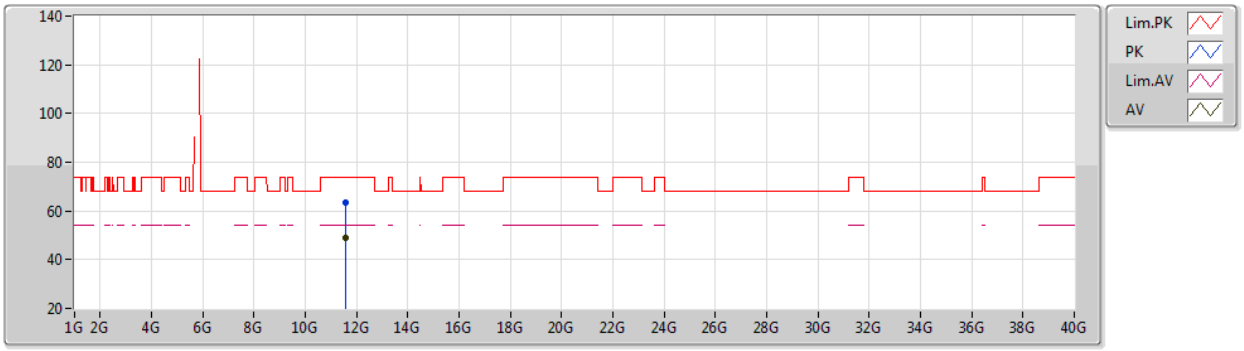
EUT X_4TX
Setting 47
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5786G	61.70	74.00	-12.30	45.49	3	Vertical	73	1.96	-	38.96	8.88	31.63
AV	11.5699G	48.21	54.00	-5.79	32.00	3	Vertical	73	1.96	-	38.96	8.88	31.63

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5785MHz_TX

02/07/2020



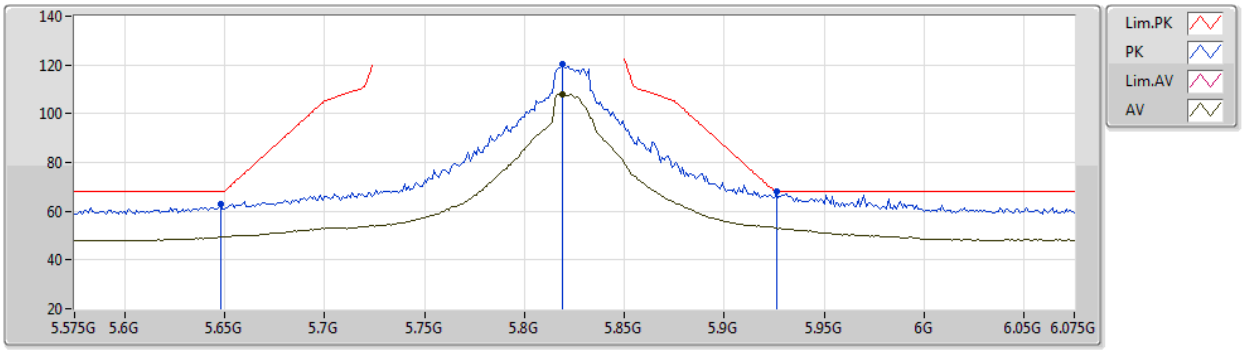
EUT X_4TX
Setting 47
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5725G	63.38	74.00	-10.62	47.17	3	Horizontal	175	1.80	-	38.96	8.88	31.63
AV	11.5699G	49.21	54.00	-4.79	33.00	3	Horizontal	175	1.80	-	38.96	8.88	31.63

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5825MHz_TX

02/07/2020



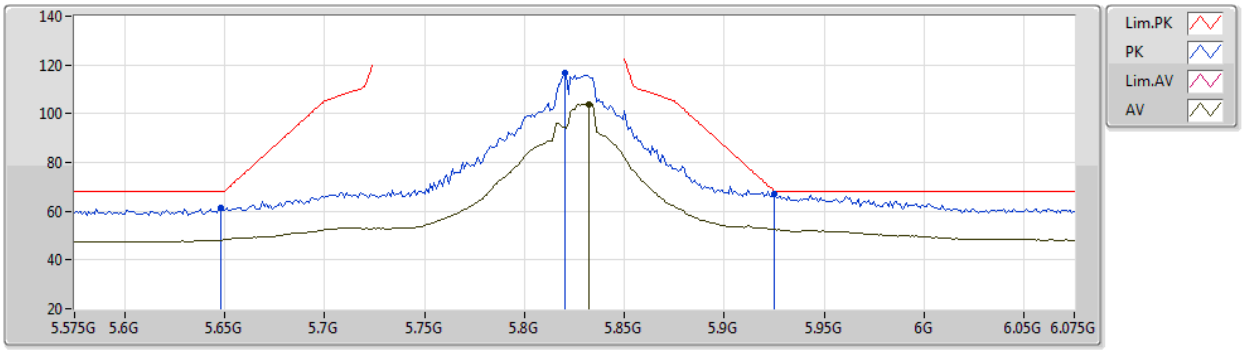
EUT X_4TX
Setting 46
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.648G	62.99	68.20	-5.21	53.36	3	Vertical	124	2.26	-	33.85	6.32	30.54
PK	5.819G	120.48	Inf	-Inf	110.82	3	Vertical	124	2.26	-	33.86	6.39	30.59
AV	5.819G	108.14	Inf	-Inf	98.48	3	Vertical	124	2.26	-	33.86	6.39	30.59
PK	5.926G	67.91	68.20	-0.29	58.06	3	Vertical	124	2.26	-	34.13	6.34	30.62

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5825MHz_TX

02/07/2020



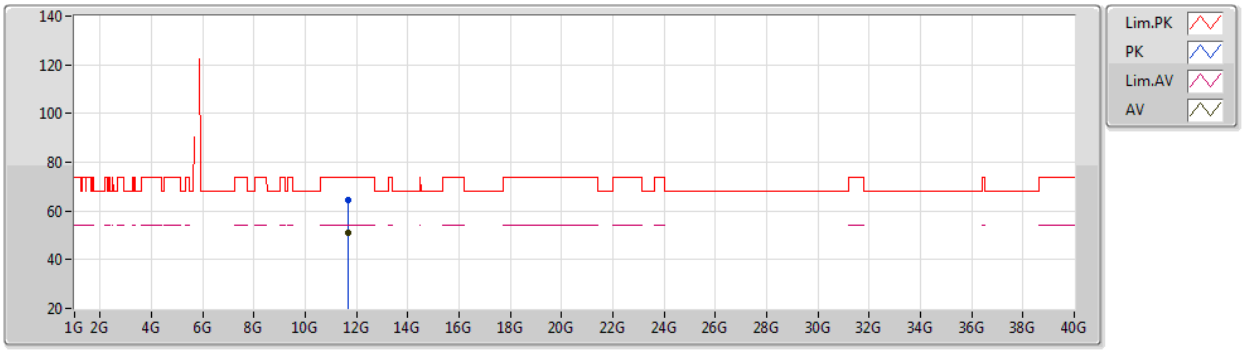
EUT X_4TX
Setting 46
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.648G	61.51	68.20	-6.69	51.88	3	Horizontal	83	2.49	-	33.85	6.32	30.54
PK	5.82G	116.87	Inf	-Inf	107.21	3	Horizontal	83	2.49	-	33.86	6.39	30.59
AV	5.832G	103.96	Inf	-Inf	94.27	3	Horizontal	83	2.49	-	33.90	6.38	30.59
PK	5.925G	66.98	68.20	-1.22	57.13	3	Horizontal	83	2.49	-	34.13	6.34	30.62

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5825MHz_TX

02/07/2020



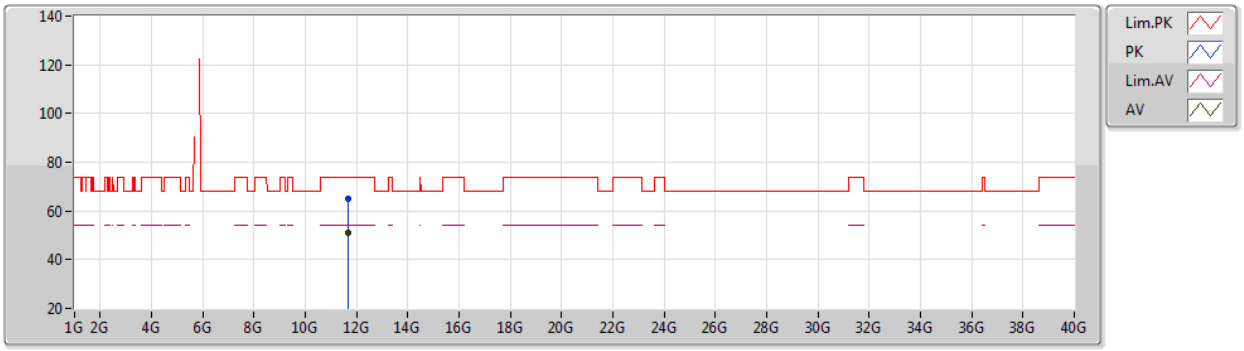
EUT X_4TX
Setting 46
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6511G	64.56	74.00	-9.44	48.29	3	Vertical	321	1.44	-	39.02	8.90	31.65
AV	11.6507G	51.14	54.00	-2.86	34.87	3	Vertical	321	1.44	-	39.02	8.90	31.65

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5825MHz_TX

02/07/2020



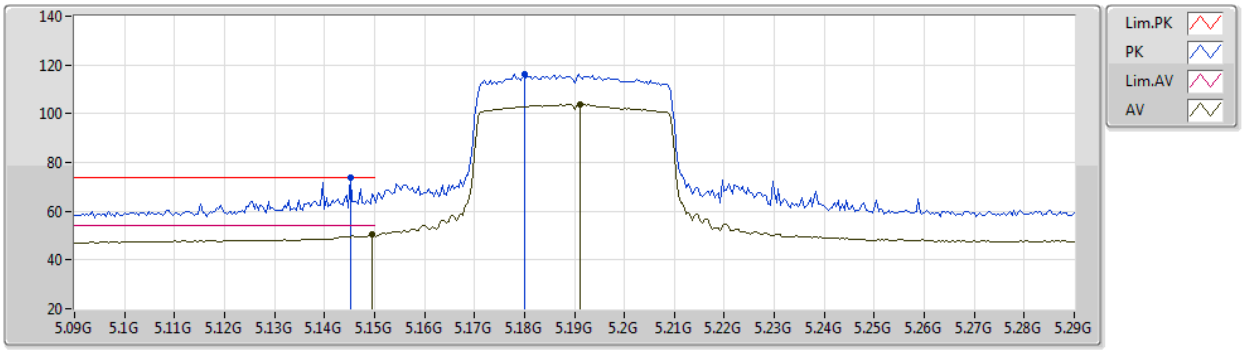
EUT X_4TX
Setting 46
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6523G	64.92	74.00	-9.08	48.65	3	Horizontal	318	1.49	-	39.02	8.90	31.65
AV	11.6495G	51.18	54.00	-2.82	34.91	3	Horizontal	318	1.49	-	39.02	8.90	31.65

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5190MHz_TX

02/07/2020



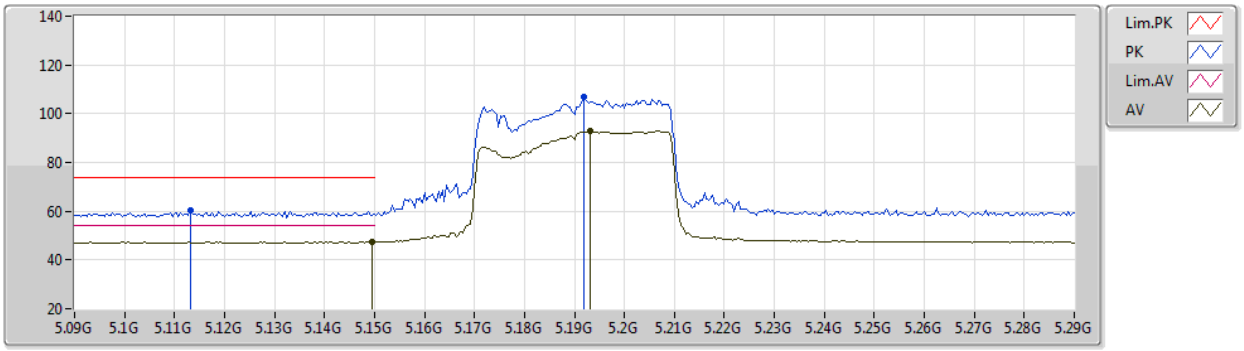
EUT X_4TX
Setting 26
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1452G	73.75	74.00	-0.25	64.71	3	Vertical	188	2.33	-	33.45	5.97	30.38
AV	5.1496G	50.35	54.00	-3.65	41.31	3	Vertical	188	2.33	-	33.45	5.97	30.38
PK	5.18G	116.33	Inf	-Inf	107.25	3	Vertical	188	2.33	-	33.48	5.99	30.39
AV	5.1912G	103.89	Inf	-Inf	94.80	3	Vertical	188	2.33	-	33.49	6.00	30.40

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5190MHz_TX

02/07/2020



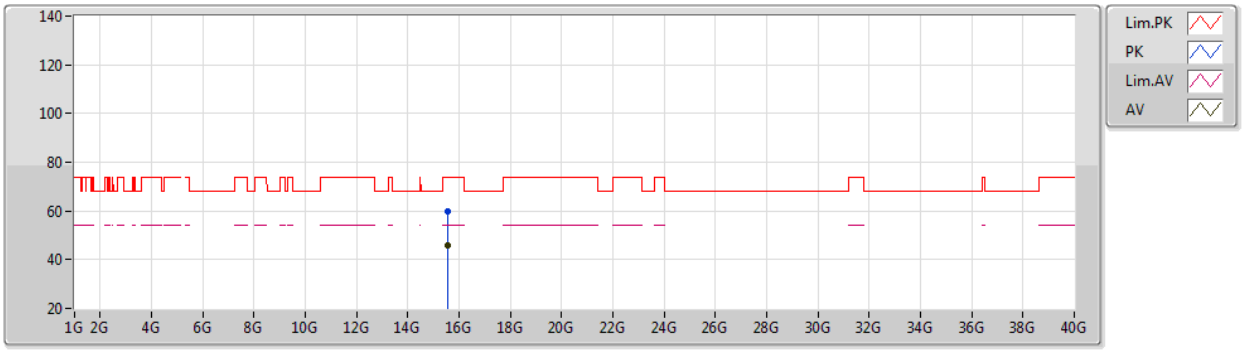
EUT X_4TX
Setting 26
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1132G	60.59	74.00	-13.41	51.59	3	Horizontal	126	1.62	-	33.41	5.96	30.37
AV	5.1496G	47.41	54.00	-6.59	38.37	3	Horizontal	126	1.62	-	33.45	5.97	30.38
PK	5.192G	106.69	Inf	-Inf	97.60	3	Horizontal	126	1.62	-	33.49	6.00	30.40
AV	5.1932G	92.87	Inf	-Inf	83.78	3	Horizontal	126	1.62	-	33.49	6.00	30.40

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5190MHz_TX

02/07/2020



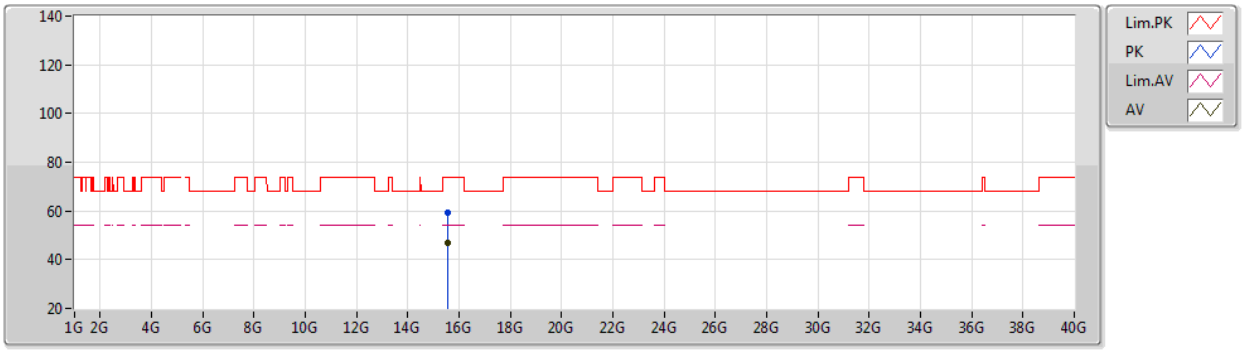
EUT X_4TX
Setting 26
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.57072G	59.64	74.00	-14.36	43.73	3	Vertical	45	1.12	-	38.64	9.26	31.99
AV	15.56952G	46.00	54.00	-8.00	30.08	3	Vertical	45	1.12	-	38.65	9.26	31.99

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5190MHz_TX

02/07/2020



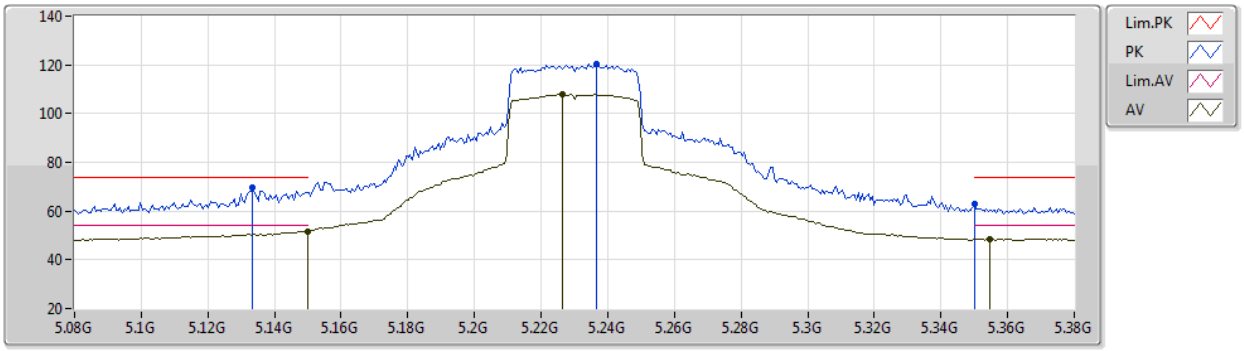
EUT X_4TX
Setting 26
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.57008G	59.22	74.00	-14.78	43.30	3	Horizontal	104	2.13	-	38.65	9.26	31.99
AV	15.57059G	46.83	54.00	-7.17	30.91	3	Horizontal	104	2.13	-	38.65	9.26	31.99

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5230MHz_TX

02/07/2020



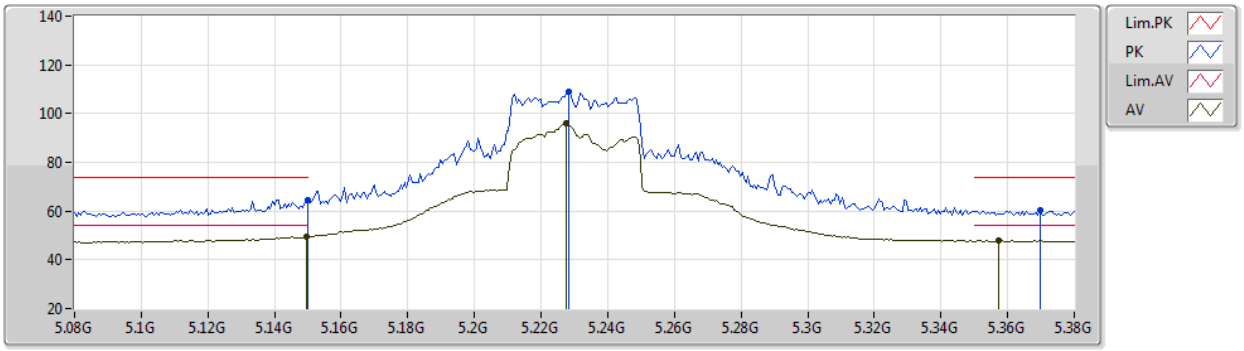
EUT X_4TX
Setting 35
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1334G	69.43	74.00	-4.57	60.41	3	Vertical	190	2.16	-	33.43	5.97	30.38
AV	5.15G	51.73	54.00	-2.27	42.69	3	Vertical	190	2.16	-	33.45	5.97	30.38
PK	5.2366G	120.21	Inf	-Inf	111.03	3	Vertical	190	2.16	-	33.57	6.02	30.41
AV	5.2264G	107.75	Inf	-Inf	98.60	3	Vertical	190	2.16	-	33.55	6.01	30.41
PK	5.35G	62.74	74.00	-11.26	53.37	3	Vertical	190	2.16	-	33.75	6.07	30.45
AV	5.3548G	48.52	54.00	-5.48	39.15	3	Vertical	190	2.16	-	33.75	6.08	30.46

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5230MHz_TX

02/07/2020



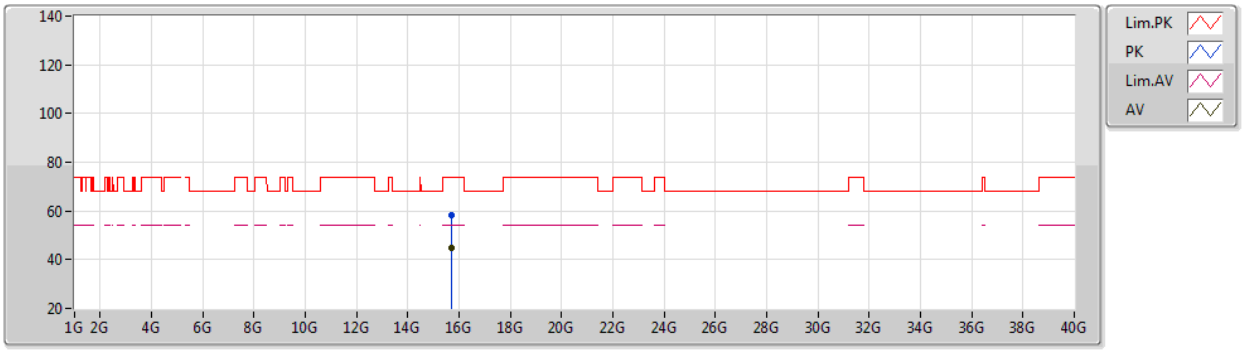
EUT X_4TX
Setting 35
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.15G	64.55	74.00	-9.45	55.51	3	Horizontal	284	1.80	-	33.45	5.97	30.38
AV	5.1496G	49.32	54.00	-4.68	40.28	3	Horizontal	284	1.80	-	33.45	5.97	30.38
PK	5.2282G	109.20	Inf	-Inf	100.04	3	Horizontal	284	1.80	-	33.56	6.01	30.41
AV	5.2276G	95.93	Inf	-Inf	86.77	3	Horizontal	284	1.80	-	33.56	6.01	30.41
PK	5.3698G	60.36	74.00	-13.64	50.97	3	Horizontal	284	1.80	-	33.77	6.08	30.46
AV	5.3572G	47.87	54.00	-6.13	38.49	3	Horizontal	284	1.80	-	33.76	6.08	30.46

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5230MHz_TX

02/07/2020



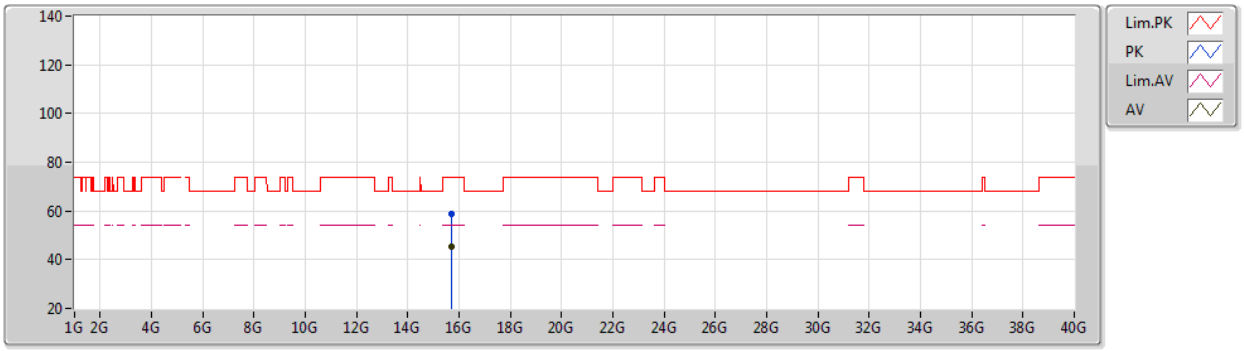
EUT X_4TX
Setting 35
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.68989G	58.33	74.00	-15.67	42.74	3	Vertical	119	1.00	-	38.30	9.30	32.01
AV	15.69205G	44.98	54.00	-9.02	29.40	3	Vertical	119	1.00	-	38.29	9.30	32.01

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5230MHz_TX

02/07/2020



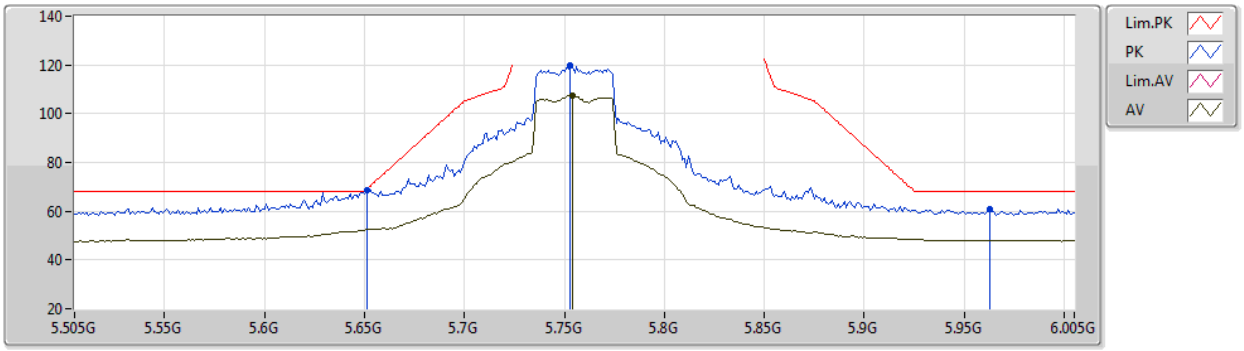
EUT X_4TX
Setting 35
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.68752G	58.73	74.00	-15.27	43.13	3	Horizontal	213	1.16	-	38.31	9.30	32.01
AV	15.68987G	45.52	54.00	-8.48	29.93	3	Horizontal	213	1.16	-	38.30	9.30	32.01

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5755MHz_TX

02/07/2020



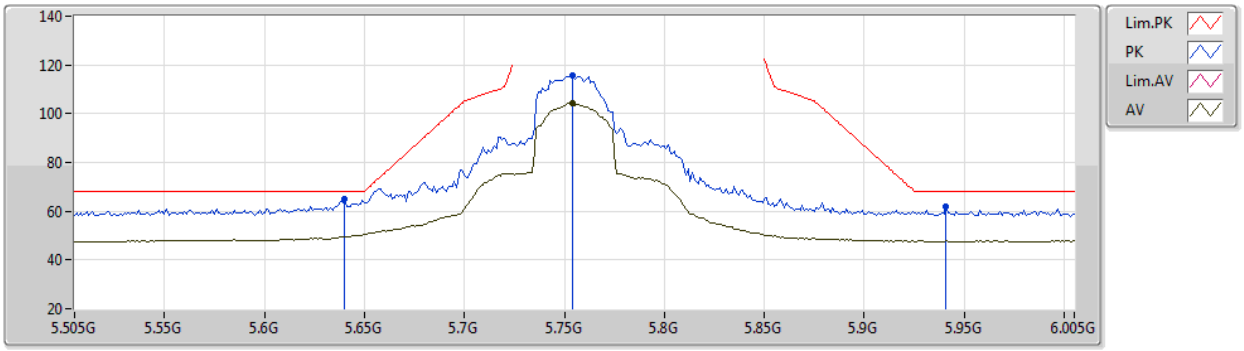
EUT X_4TX
Setting 38
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.651G	68.86	68.94	-0.08	59.23	3	Vertical	182	1.70	-	33.85	6.33	30.55
PK	5.753G	119.58	Inf	-Inf	109.97	3	Vertical	182	1.70	-	33.80	6.38	30.57
AV	5.754G	107.67	Inf	-Inf	98.06	3	Vertical	182	1.70	-	33.80	6.38	30.57
PK	5.963G	60.65	68.20	-7.55	50.79	3	Vertical	182	1.70	-	34.16	6.32	30.62

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5755MHz_TX

02/07/2020



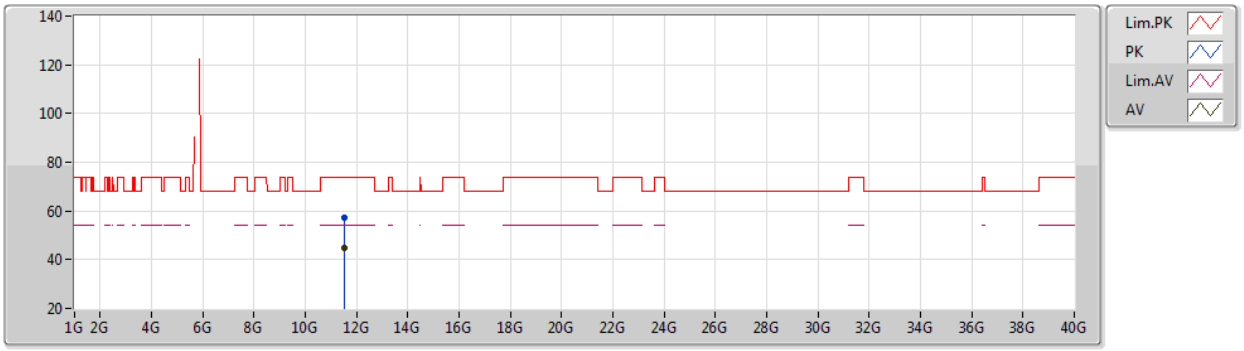
EUT X_4TX
Setting 38
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.64G	65.16	68.20	-3.04	55.52	3	Horizontal	291	2.63	-	33.86	6.32	30.54
PK	5.754G	115.86	Inf	-Inf	106.25	3	Horizontal	291	2.63	-	33.80	6.38	30.57
AV	5.754G	104.47	Inf	-Inf	94.86	3	Horizontal	291	2.63	-	33.80	6.38	30.57
PK	5.941G	61.80	68.20	-6.40	51.95	3	Horizontal	291	2.63	-	34.14	6.33	30.62

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5755MHz_TX

02/07/2020



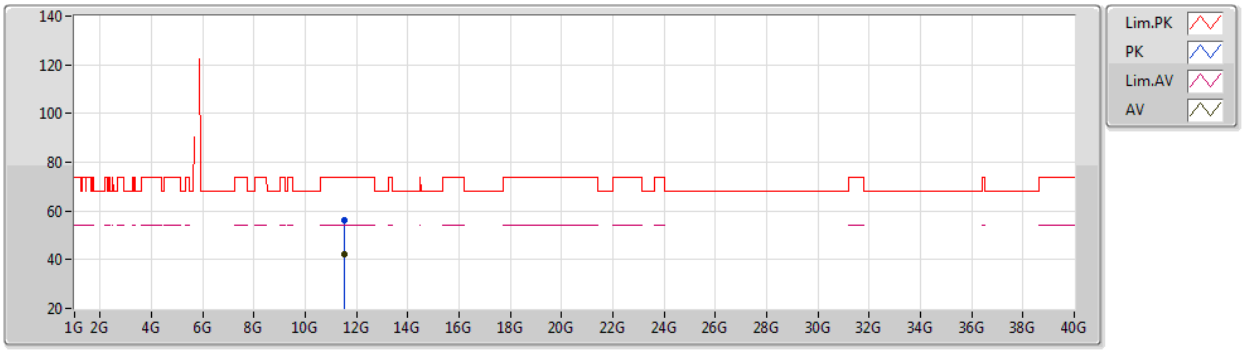
EUT X_4TX
Setting 38
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.51164G	57.00	74.00	-17.00	40.84	3	Vertical	140	2.73	-	38.91	8.86	31.61
AV	11.51028G	44.71	54.00	-9.29	28.55	3	Vertical	140	2.73	-	38.91	8.86	31.61

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5755MHz_TX

02/07/2020



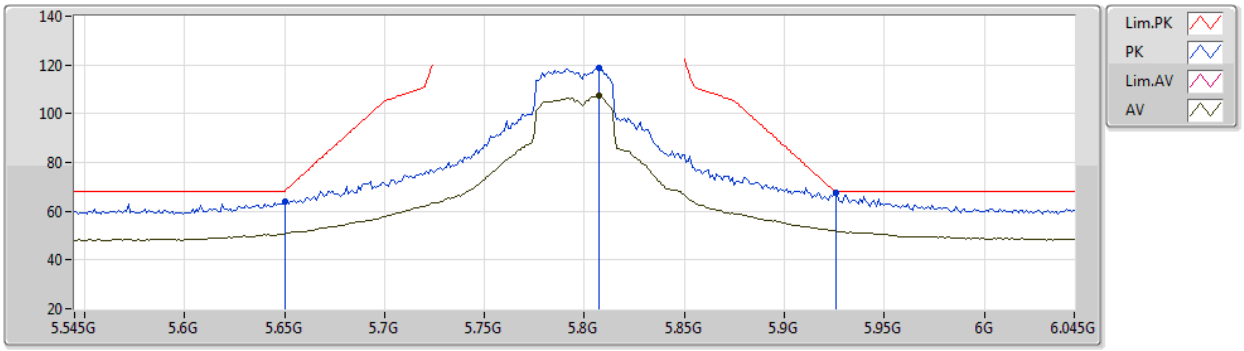
EUT X_4TX
Setting 38
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.51144G	56.14	74.00	-17.86	39.98	3	Horizontal	272	1.48	-	38.91	8.86	31.61
AV	11.50831G	42.15	54.00	-11.85	25.99	3	Horizontal	272	1.48	-	38.91	8.86	31.61

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5795MHz_TX

02/07/2020



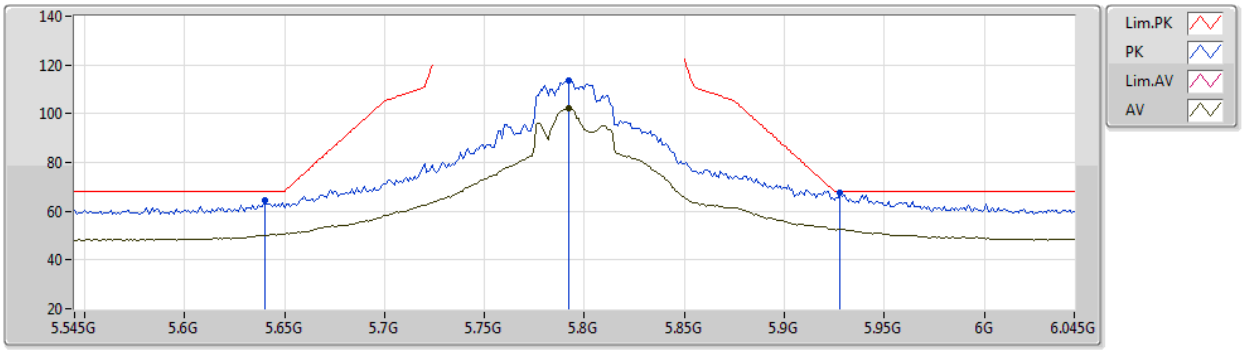
EUT X_4TX
Setting 41
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.65G	63.99	68.20	-4.21	54.37	3	Vertical	118	1.03	-	33.85	6.32	30.55
PK	5.807G	119.05	Inf	-Inf	109.41	3	Vertical	118	1.03	-	33.82	6.40	30.58
AV	5.807G	107.37	Inf	-Inf	97.73	3	Vertical	118	1.03	-	33.82	6.40	30.58
PK	5.926G	67.83	68.20	-0.37	57.98	3	Vertical	118	1.03	-	34.13	6.34	30.62

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5795MHz_TX

02/07/2020



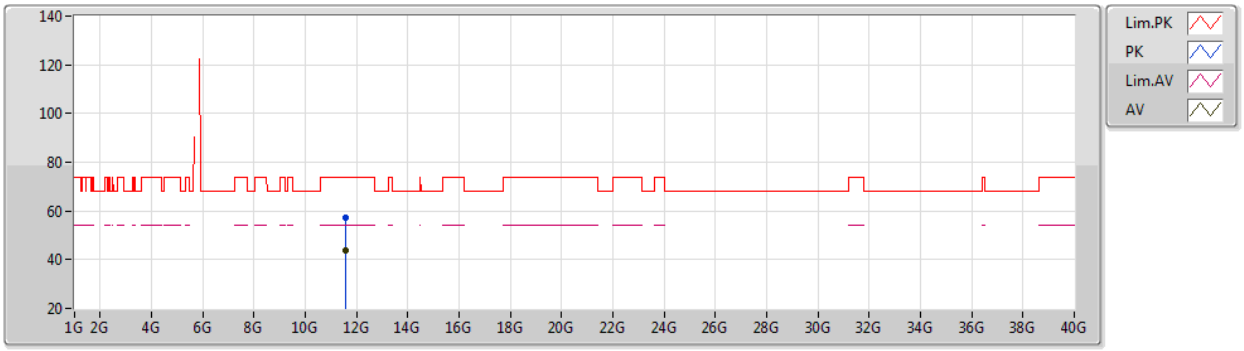
EUT X_4TX
Setting 41
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.64G	64.50	68.20	-3.70	54.86	3	Horizontal	87	1.80	-	33.86	6.32	30.54
PK	5.792G	113.85	Inf	-Inf	104.23	3	Horizontal	87	1.80	-	33.80	6.40	30.58
AV	5.792G	102.03	Inf	-Inf	92.41	3	Horizontal	87	1.80	-	33.80	6.40	30.58
PK	5.928G	67.80	68.20	-0.40	57.95	3	Horizontal	87	1.80	-	34.13	6.34	30.62

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5795MHz_TX

02/07/2020



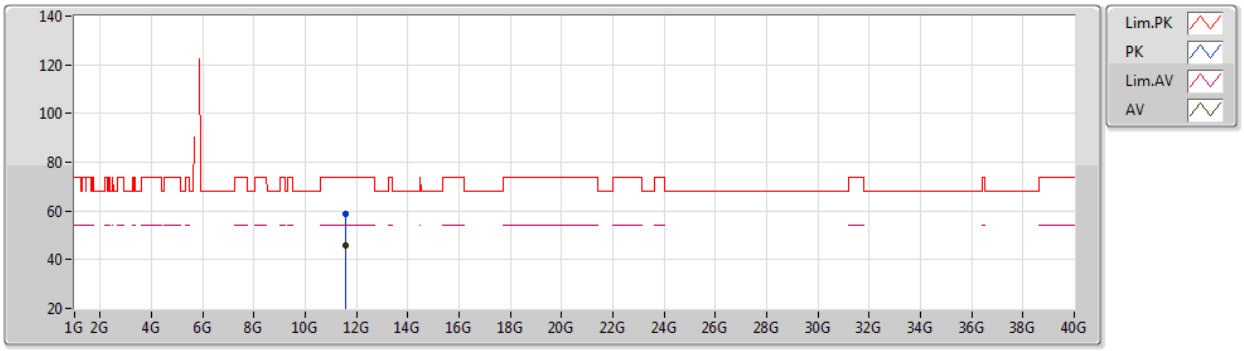
EUT X_4TX
Setting 41
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.59107G	57.03	74.00	-16.97	40.81	3	Vertical	139	2.25	-	38.97	8.88	31.63
AV	11.59066G	43.96	54.00	-10.04	27.74	3	Vertical	139	2.25	-	38.97	8.88	31.63

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5795MHz_TX

02/07/2020



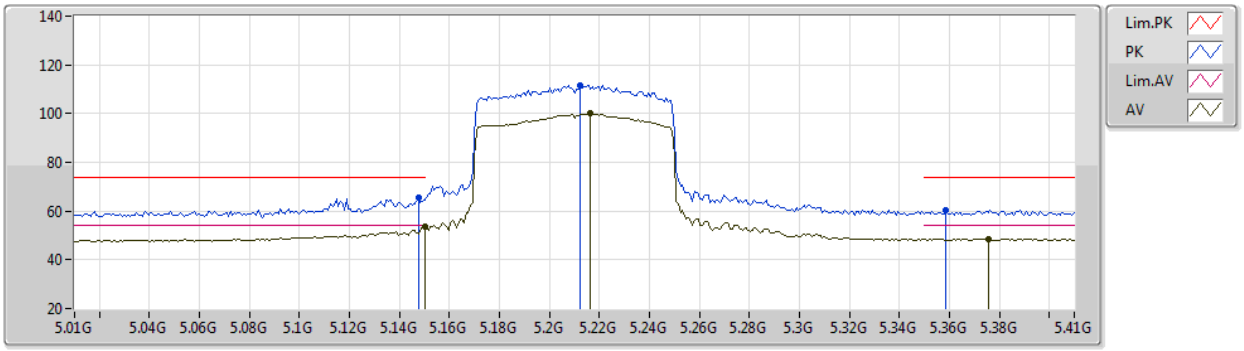
EUT X_4TX
Setting 41
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.59226G	58.64	74.00	-15.36	42.42	3	Horizontal	170	1.75	-	38.97	8.88	31.63
AV	11.59136G	45.80	54.00	-8.20	29.58	3	Horizontal	170	1.75	-	38.97	8.88	31.63

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5210MHz_TX

02/07/2020



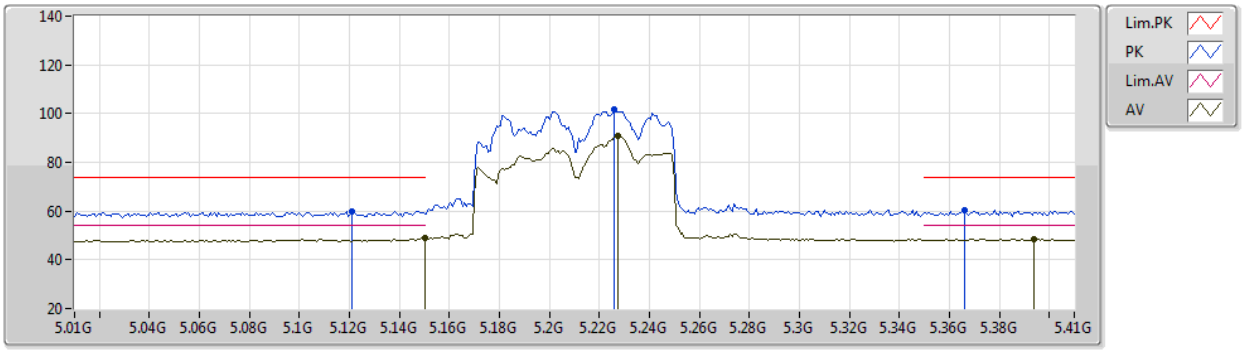
EUT X_4TX
Setting 20
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1476G	65.38	74.00	-8.62	56.34	3	Vertical	187	1.23	-	33.45	5.97	30.38
AV	5.15G	53.78	54.00	-0.22	44.74	3	Vertical	187	1.23	-	33.45	5.97	30.38
PK	5.2124G	111.79	Inf	-Inf	102.66	3	Vertical	187	1.23	-	33.52	6.01	30.40
AV	5.2164G	100.14	Inf	-Inf	91.01	3	Vertical	187	1.23	-	33.53	6.01	30.41
PK	5.3588G	60.36	74.00	-13.64	50.98	3	Vertical	187	1.23	-	33.76	6.08	30.46
AV	5.3756G	48.67	54.00	-5.33	39.26	3	Vertical	187	1.23	-	33.78	6.09	30.46

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5210MHz_TX

02/07/2020



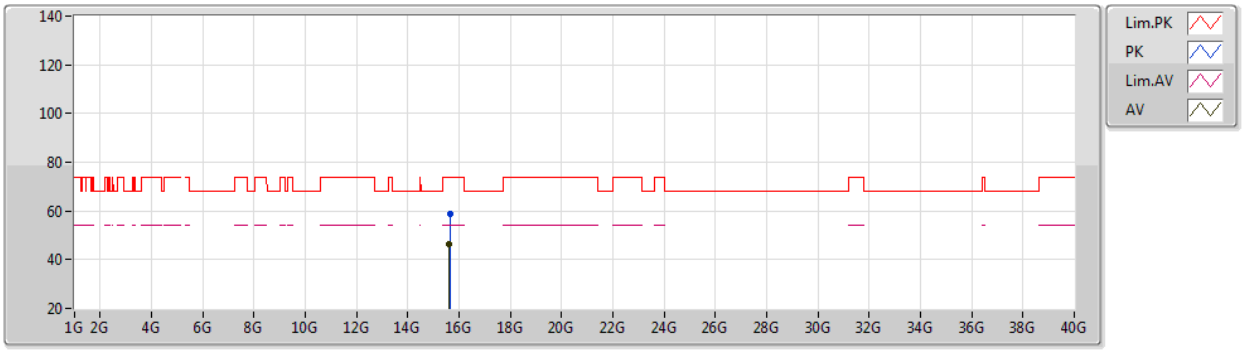
EUT X_4TX
Setting 20
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1212G	59.97	74.00	-14.03	50.97	3	Horizontal	97	2.49	-	33.42	5.96	30.38
AV	5.15G	49.01	54.00	-4.99	39.97	3	Horizontal	97	2.49	-	33.45	5.97	30.38
PK	5.226G	101.75	Inf	-Inf	92.60	3	Horizontal	97	2.49	-	33.55	6.01	30.41
AV	5.2276G	90.71	Inf	-Inf	81.55	3	Horizontal	97	2.49	-	33.56	6.01	30.41
PK	5.366G	60.22	74.00	-13.78	50.83	3	Horizontal	97	2.49	-	33.77	6.08	30.46
AV	5.394G	48.68	54.00	-5.32	39.26	3	Horizontal	97	2.49	-	33.79	6.10	30.47

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5210MHz_TX

02/07/2020



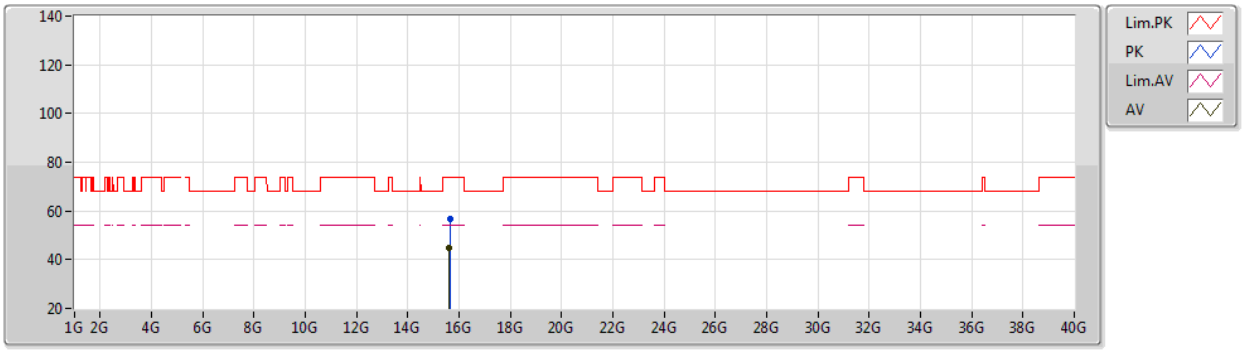
EUT X_4TX
Setting 20
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.63142G	59.01	74.00	-14.99	43.26	3	Vertical	265	2.62	-	38.47	9.28	32.00
AV	15.628G	46.32	54.00	-7.68	30.56	3	Vertical	265	2.62	-	38.48	9.28	32.00

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5210MHz_TX

02/07/2020



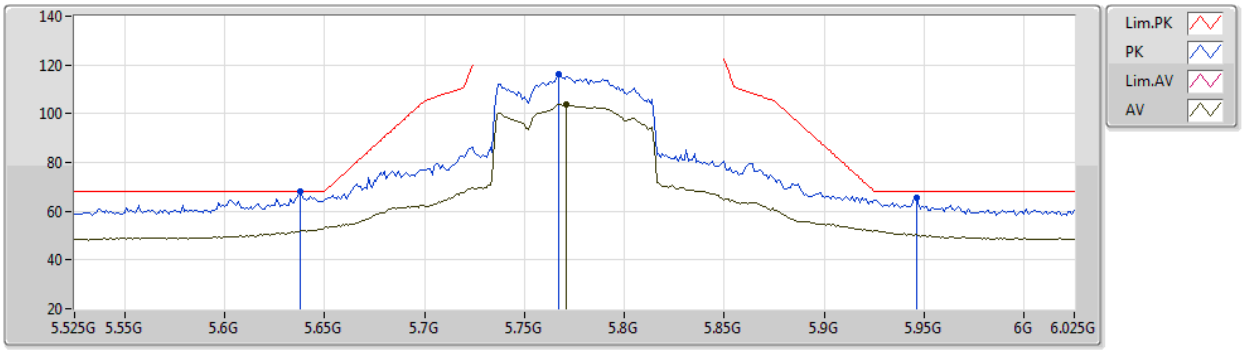
EUT X_4TX
Setting 20
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.63175G	56.57	74.00	-17.43	40.82	3	Horizontal	172	1.90	-	38.47	9.28	32.00
AV	15.62973G	45.05	54.00	-8.95	29.30	3	Horizontal	172	1.90	-	38.47	9.28	32.00

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5775MHz_TX

02/07/2020



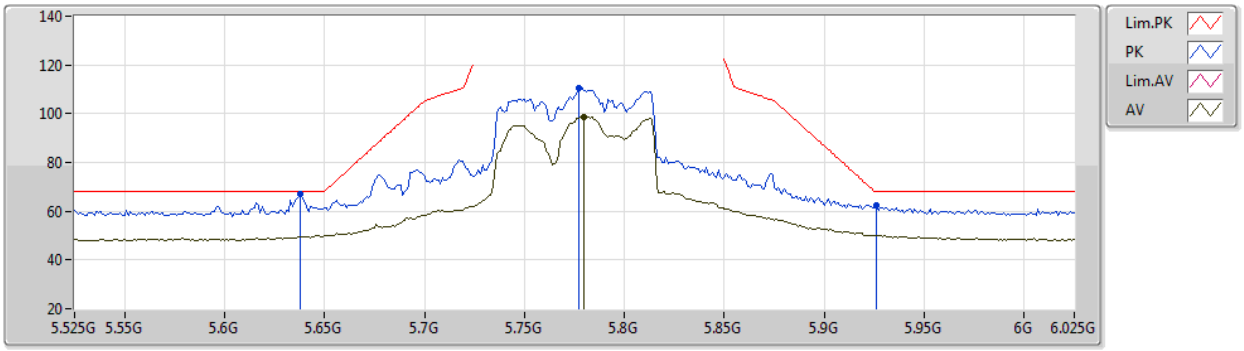
EUT X_4TX
Setting 35
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.638G	67.96	68.20	-0.24	58.32	3	Vertical	194	1.88	-	33.86	6.32	30.54
PK	5.767G	116.40	Inf	-Inf	106.79	3	Vertical	194	1.88	-	33.80	6.38	30.57
AV	5.771G	103.91	Inf	-Inf	94.29	3	Vertical	194	1.88	-	33.80	6.39	30.57
PK	5.946G	65.72	68.20	-2.48	55.86	3	Vertical	194	1.88	-	34.15	6.33	30.62

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5775MHz_TX

02/07/2020



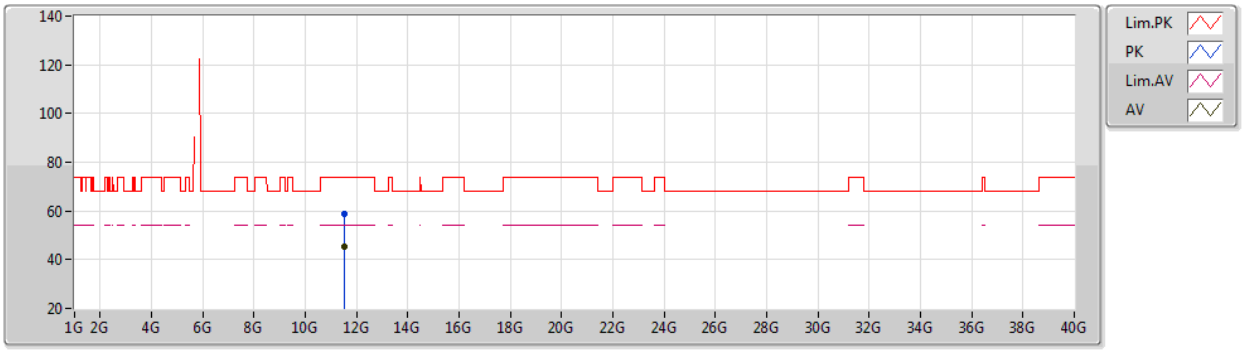
EUT X_4TX
Setting 35
02-C-M-1-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.638G	66.94	68.20	-1.26	57.30	3	Horizontal	101	2.32	-	33.86	6.32	30.54
PK	5.777G	110.41	Inf	-Inf	100.80	3	Horizontal	101	2.32	-	33.80	6.39	30.58
AV	5.78G	98.87	Inf	-Inf	89.26	3	Horizontal	101	2.32	-	33.80	6.39	30.58
PK	5.926G	62.36	68.20	-5.84	52.51	3	Horizontal	101	2.32	-	34.13	6.34	30.62

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5775MHz_TX

02/07/2020



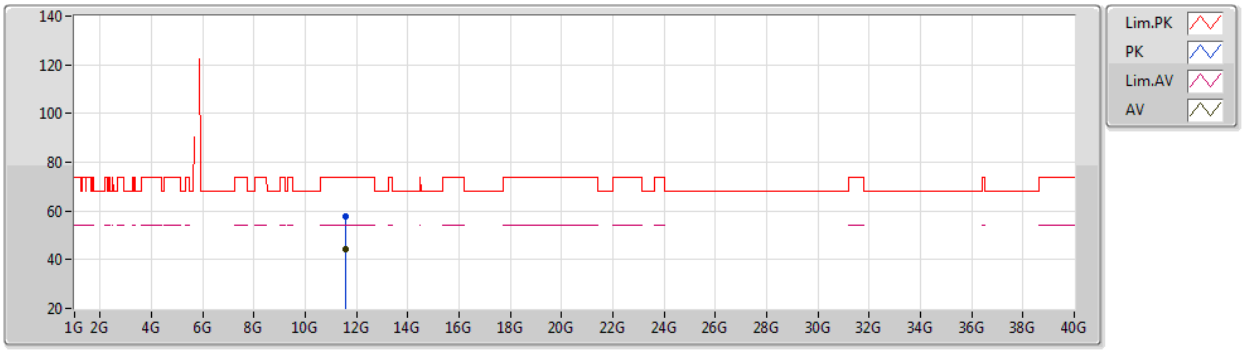
EUT X_4TX
Setting 35
02-C-M-1

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.54765G	58.63	74.00	-15.37	42.44	3	Vertical	13	1.45	-	38.94	8.87	31.62
AV	11.54868G	45.58	54.00	-8.42	29.39	3	Vertical	13	1.45	-	38.94	8.87	31.62

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5775MHz_TX

02/07/2020



EUT X_4TX
Setting 35
02-C-M-1

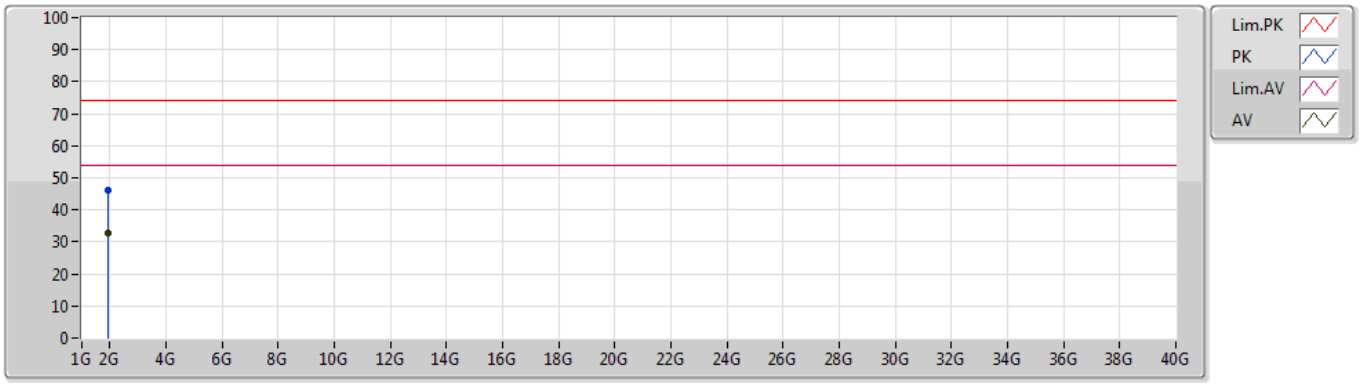
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.55036G	57.84	74.00	-16.16	41.65	3	Horizontal	154	2.54	-	38.94	8.87	31.62
AV	11.55248G	44.51	54.00	-9.49	28.32	3	Horizontal	154	2.54	-	38.94	8.87	31.62

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.91629G	32.92	54.00	-21.08	Vertical

Mode 1

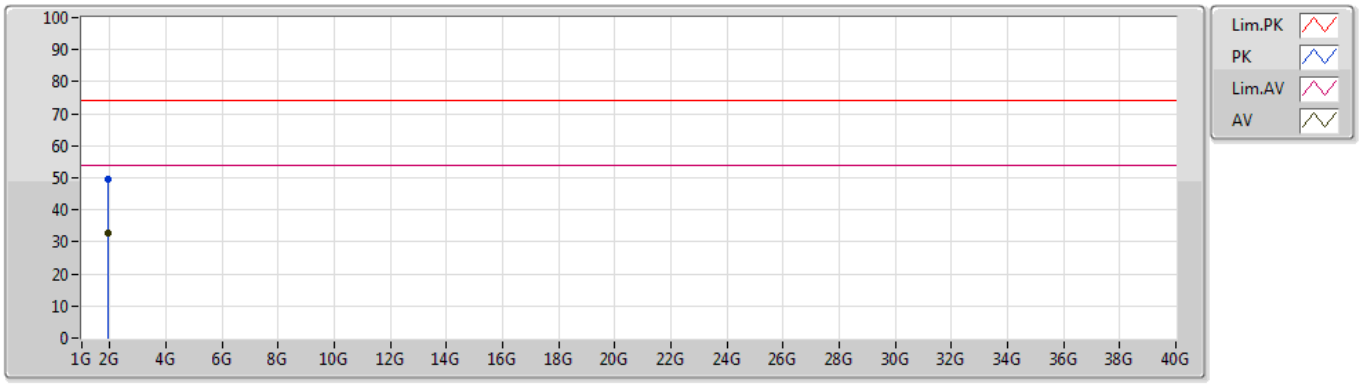
20/07/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	1.9177G	46.33	74.00	-27.67	-1.01	3	Vertical	59	1.80	-	47.34	27.72	3.92	32.65
AV	1.91629G	32.92	54.00	-21.08	-1.01	3	Vertical	59	1.80	-	33.93	27.72	3.92	32.65

Mode 1

20/07/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	1.91805G	49.44	74.00	-24.56	-1.01	3	Horizontal	322	1.81	-	50.45	27.72	3.92	32.65
AV	1.91865G	32.67	54.00	-21.33	-1.01	3	Horizontal	322	1.81	-	33.68	27.72	3.92	32.65