



FCC RADIO TEST REPORT

FCC ID : NKR-LVSK-M1
Equipment : Wi-Fi Extender
Brand Name : verizon
Model Name : LVM1
Applicant : Wistron NeWeb Corporation
20 Park Ave. II, Hsinchu Science Park, Hsinchu 308, Taiwan
Manufacturer : Wistron NeWeb Corporation
20 Park Ave. II, Hsinchu Science Park, Hsinchu 308, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Jun. 01, 2019, and testing was started from Jun. 01, 2019 and completed on Jun. 29, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Sam Chen

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



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



Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: 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 (VHT40), 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	4TX
5.15-5.25GHz	802.11n HT20	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.15-5.25GHz	802.11ax HEW20-BF	20	4TX
5.15-5.25GHz	802.11n HT40	40	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.15-5.25GHz	802.11ax HEW40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	WNC	95XKAC15.GCOVZ	Dipole	I-PEX MHF	Note1
2	2	WNC	95XKAC15.GCEVZ	Dipole	I-PEX MHF	
3	1	WNC	95XKAC15.GCKVZ	Dipole	I-PEX MHF	
4	2	WNC	95XKAC15.GCJVZ	Dipole	I-PEX MHF	
5	3	WNC	95XKAC15.GCIVZ	Dipole	I-PEX MHF	
6	4	WNC	95XKAC15.GCLVZ	Dipole	I-PEX MHF	
7	1	WNC	95XKAC15.GCNVZ	Patch	I-PEX MHF	
8		WNC	95XKAC15.GCMVZ	Patch	I-PEX MHF	

Note1:

Directional Gain (dBi)				
Ant.	Port	2.4GHz	5G Bnad 1	5G Bnad 4
1	1	4.17	-	2.96
2	2	4.17	-	2.96
3	1	-	5.76	-
4	2	-	5.76	-
5	3	-	5.76	-
6	4	-	5.76	-

Antenna Gain (dBi)		
Ant.	Port	Bluetooth
7	1	2.66
8		2.66

Note2:The above information was declared by manufacturer.

For 2.4GHz and 5GHz band 4 function (2TX/2RX):

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

Port 1 and Port 2 can could transmit/receive simultaneously.

For 5GHz band 1 function (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 can could transmit/receive simultaneously.

For bluetooth function (1TX/1RX):

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

**1.1.3 Mode Test Duty Cycle****For Band 1**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.939	0.27	1.98m	1k
802.11ax HEW20	0.95	0.22	5.453m	300
802.11ax HEW20-BF	0.935	0.29	1.761m	1k
802.11ax HEW40	0.963	0.16	5.455m	300
802.11ax HEW40-BF	0.916	0.38	1.761m	1k
802.11ax HEW80	0.966	0.15	5.453m	300
802.11ax HEW80-BF	0.924	0.34	1.685m	1k

For Band 4

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.953	0.21	1.978m	1k
802.11ax HEW20	0.951	0.22	5.453m	300
802.11ax HEW20-BF	0.98	0.09	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	0.951	0.22	5.455m	300
802.11ax HEW40-BF	0.963	0.16	1.763m	1k
802.11ax HEW80	0.95	0.22	5.455m	300
802.11ax HEW80-BF	0.91	0.41	1.686m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming for 802.11ax in 2.4GHz and 802.11ac/ax in 5GHz	☐	Without beamforming
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	QSPR(version v5.0-00163)			

Note: The above information was declared by manufacturer.

1.1.5 EUT supports function

Function
Mesh
Bridge

Note: The EUT supports Mesh and Bridge mode, only Mesh mode was tested and recorded in this test report for manufacturer's request.



1.2 Applicable Standards

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

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

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	Benson Su	22~24°C / 50~60%	Jun. 05, 2019 ~ Jun. 29, 2019
Radiated	03CH03-CB for below 1GHz	RJ Huang	22~24°C / 55~60%	Jun. 28, 2019
Radiated	03CH01-CB for above 1GHz	Stim Sung	22~24°C / 50~60%	Jun. 01, 2019 ~ Jun. 29, 2019
AC Conduction	CO01-CB	Peter Wu	24.6~24.8°C / 60~61%	Jun. 28, 2019

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086B with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	1.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

For Band 1

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	23
5200MHz	23
5240MHz	24
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	23
5200MHz	23.5
5240MHz	24
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	20
5230MHz	24
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	20
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	28
5200MHz	29
5240MHz	29
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	27
5230MHz	29
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	26

**For Band 4**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5745MHz	29
5785MHz	29
5825MHz	29
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5745MHz	29
5785MHz	29
5825MHz	28.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5755MHz	25.5
5795MHz	27
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5775MHz	23.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5745MHz	26
5785MHz	26
5825MHz	26
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5755MHz	26
5795MHz	26
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5775MHz	26

Note:

- ♦ 802.11ax modulation and bandwidth are similar for 802.11n mode for 20/40MHz, therefore investigated worst case to representative mode in test report.
- ♦ There are two modes of EUT for 802.11ax in 2.4GHz and 802.11ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode. Both modes have been tested and recorded in this test report.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
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 Band 4
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 Band 1 + WLAN 5GHz Band 4 + Bluetooth
Refer to Sporton Test Report No.: FA953007 for Co-location RF Exposure Evaluation.	

Note: The EUT only use in Z axis.



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

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

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under Telnet.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by 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
Adapter	LUCENT TRANS	1A95-US1223	INPUT: 100-240V, 1A, 50-60Hz OUTPUT: 19V, 2.37A



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	LAN2 NB	DELL	E6430	N/A
C	Device	verizon	LVM1	NKR-LVSK-M1
D	Smart phone	Samsung	Galaxy J2	N/A
E	2.4G NB	DELL	E6430	N/A
F	5G NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Device	verizon	LVM1	NKR-LVSK-M1
D	Phone	Samsung	SM-J200Y	N/A
E	NB	Apple	Mac Book	N/A
F	NB	Apple	Mac Book	N/A

For Radiated (above 1GHz) & RF Conducted:

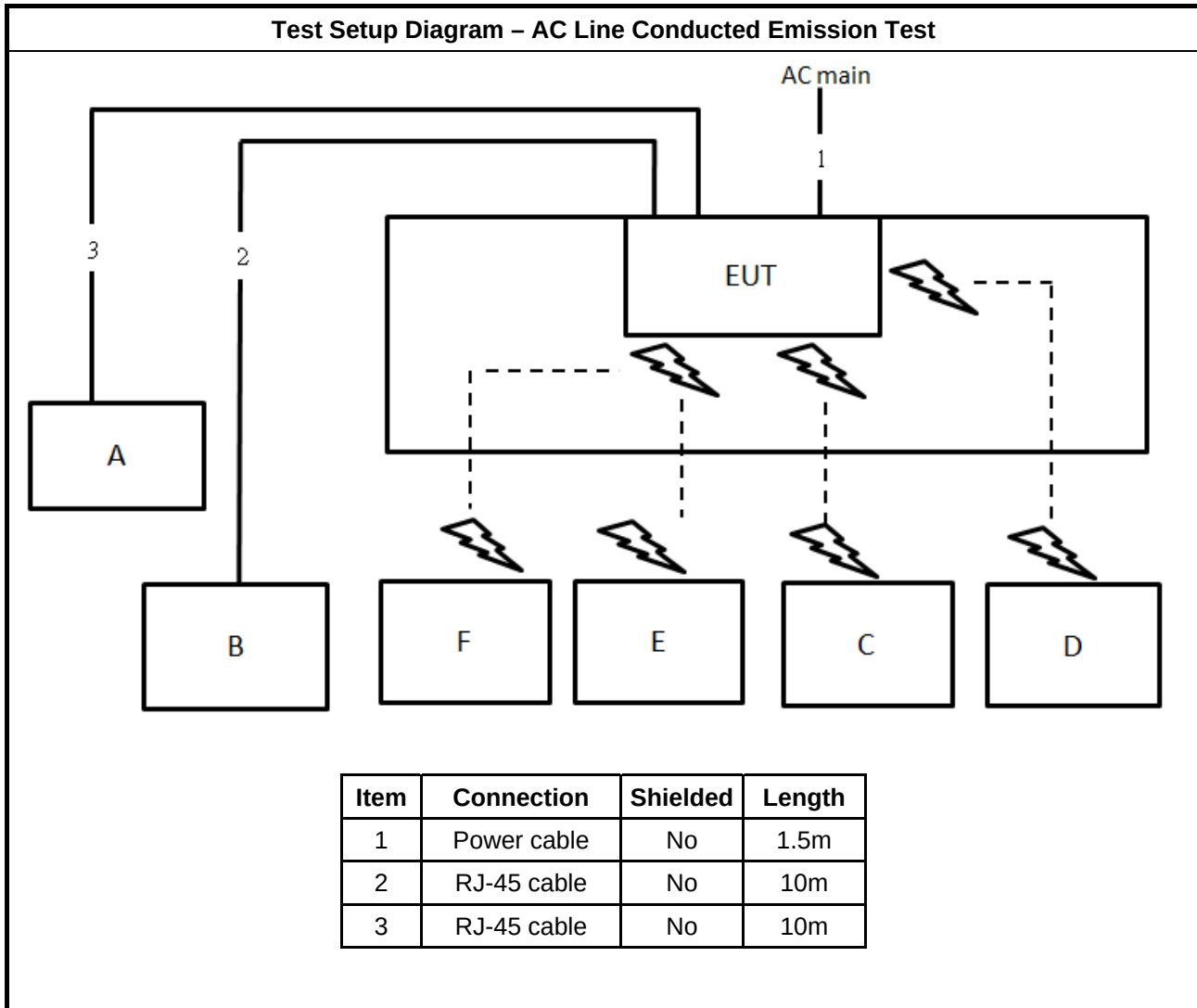
For non-beamforming mode

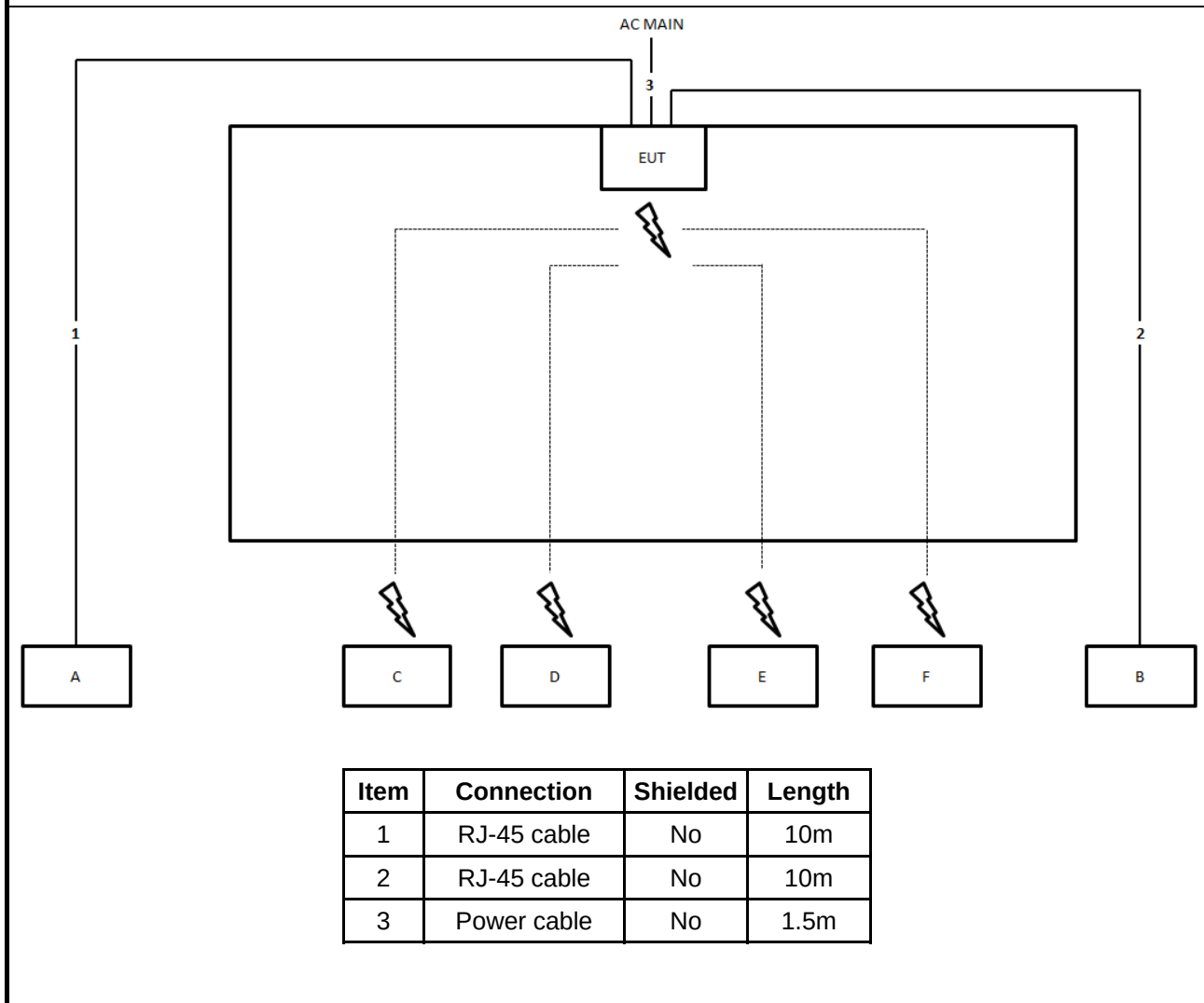
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

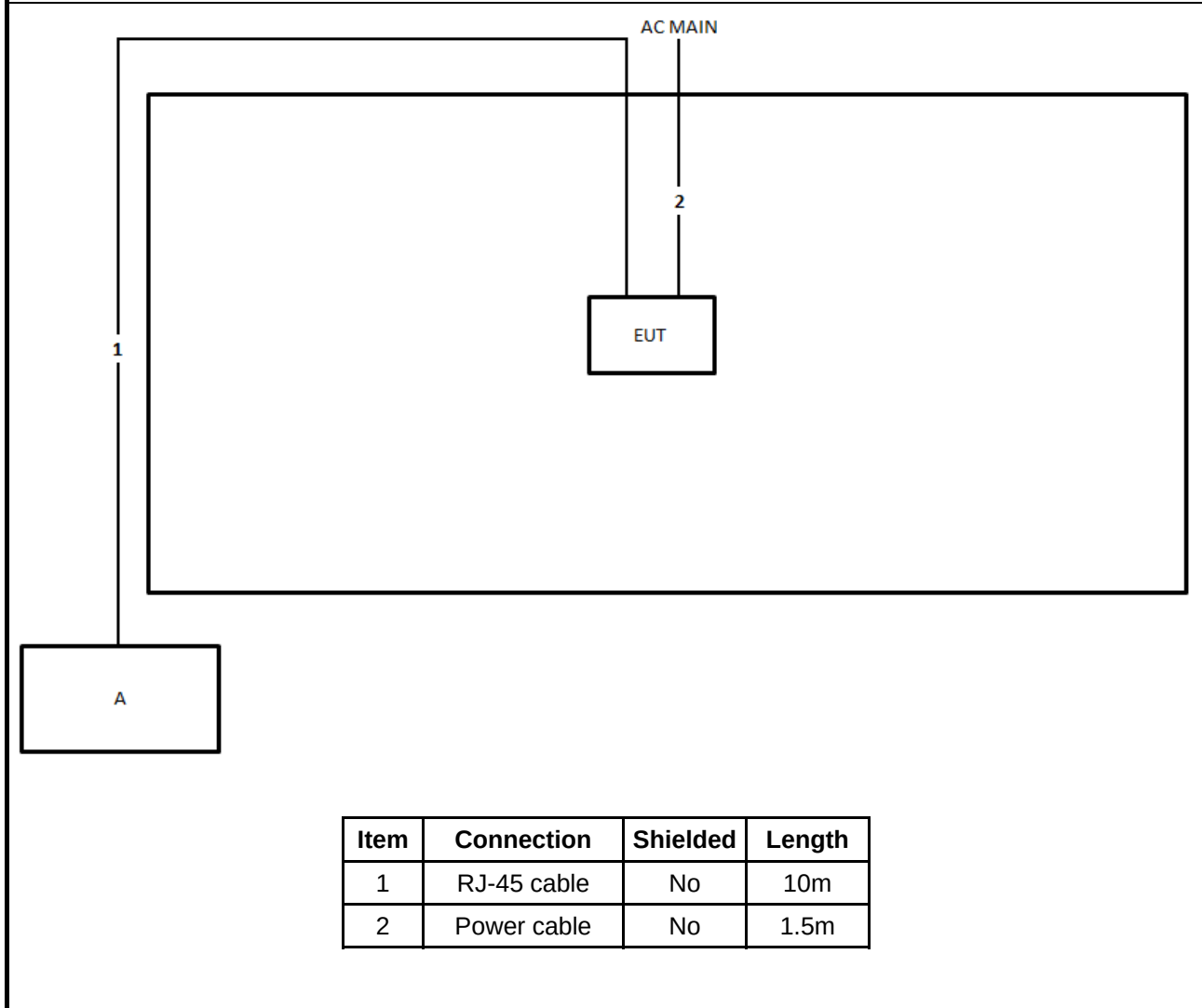
For beamforming mode

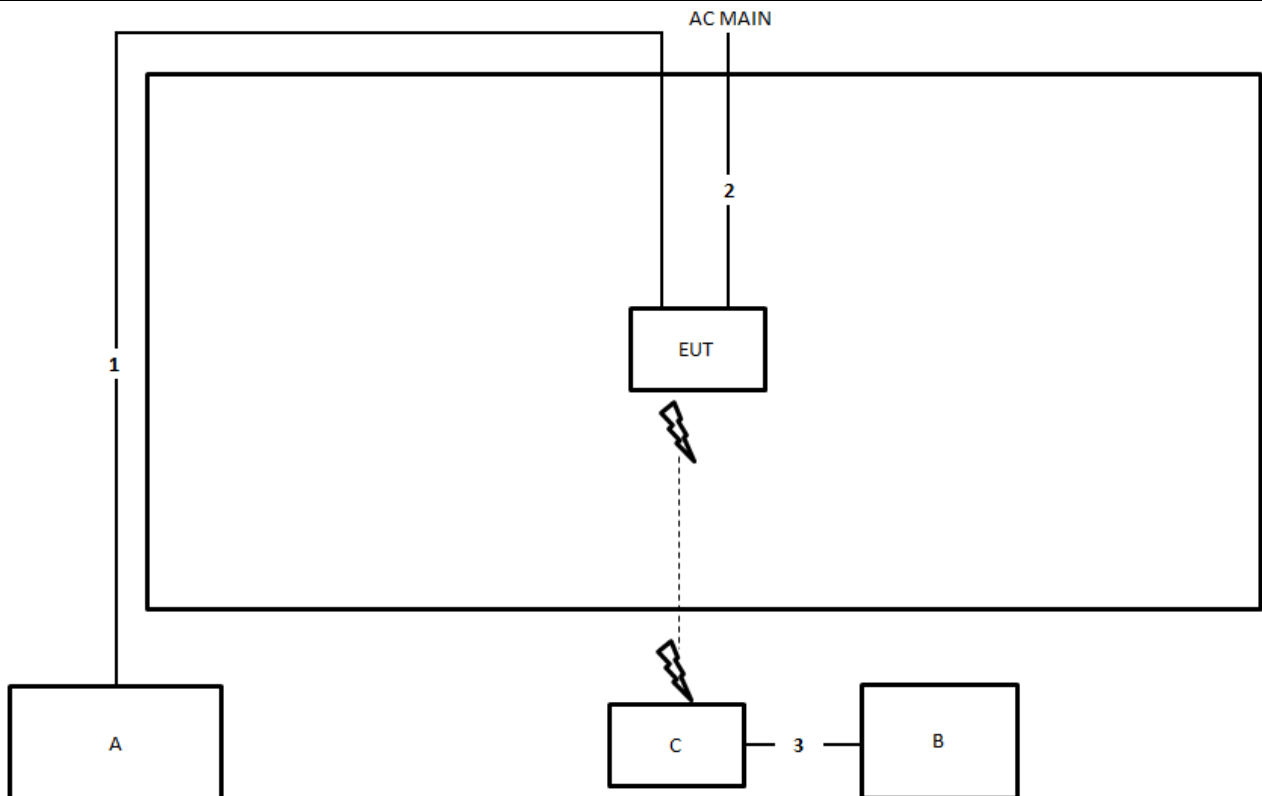
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Device	verizon	LVM1	NKR-LVSK-M1

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


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


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


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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

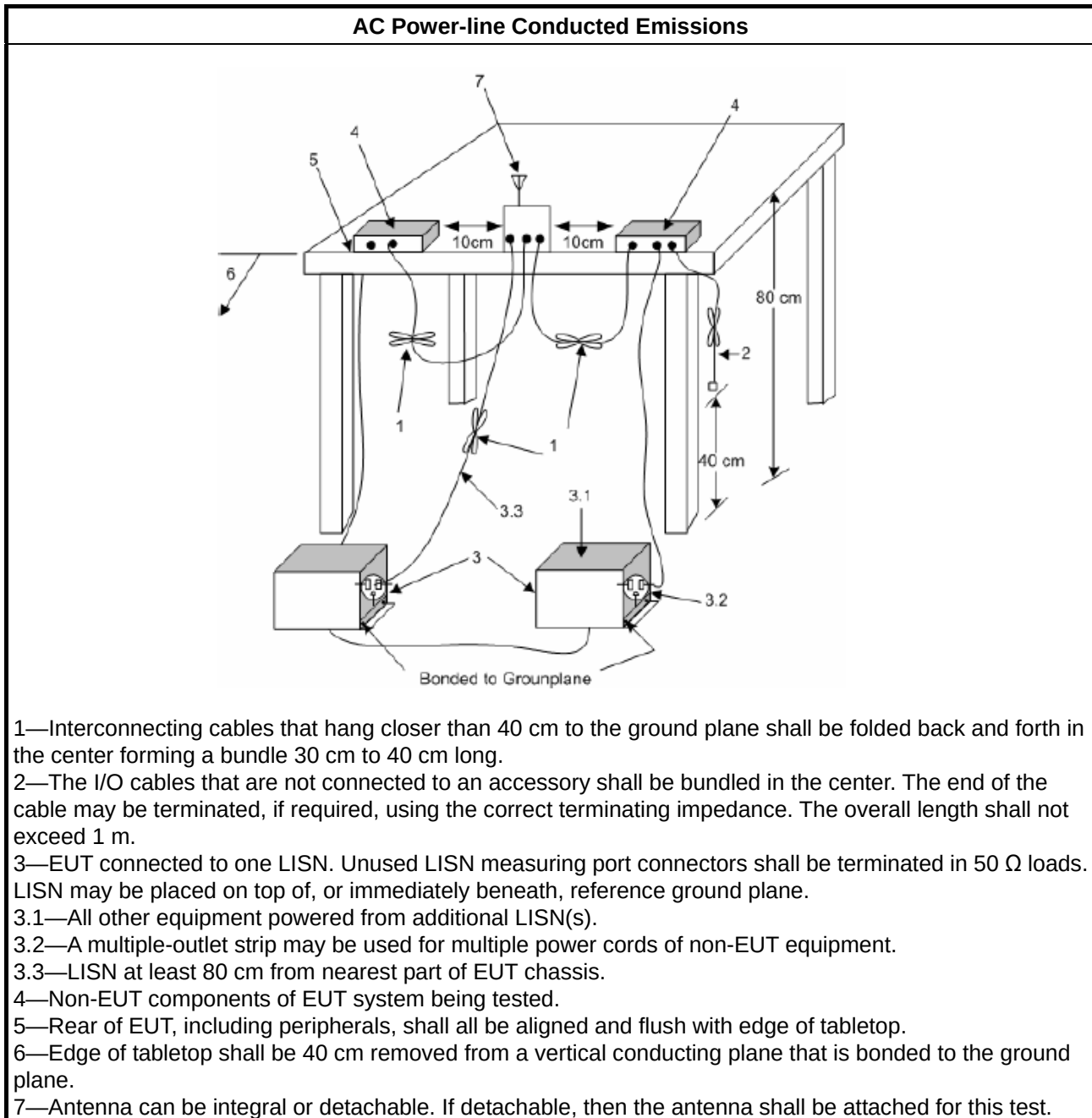
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

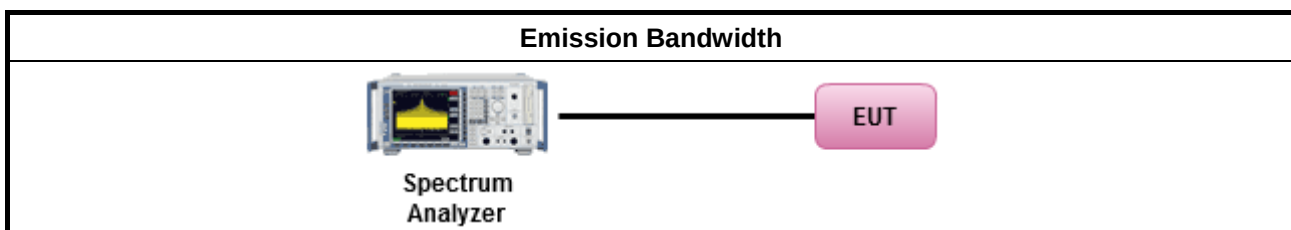
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

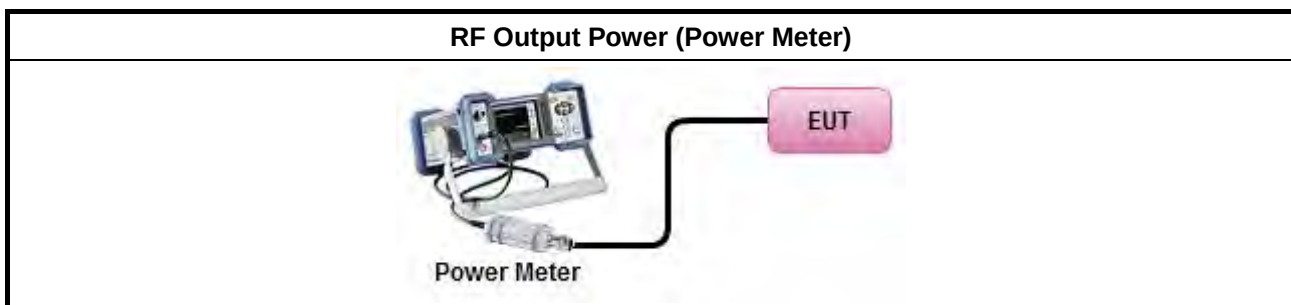
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

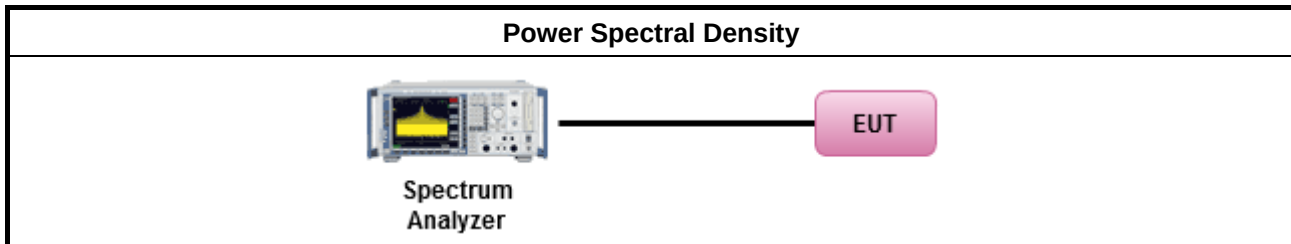
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐ Refer as FCC KDB 789033, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
[duty cycle ≥ 98% or external video / power trigger]	
☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).	
☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)	
duty cycle < 98% and average over on/off periods with duty factor	
☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).	
☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	
☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	
☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

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

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



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

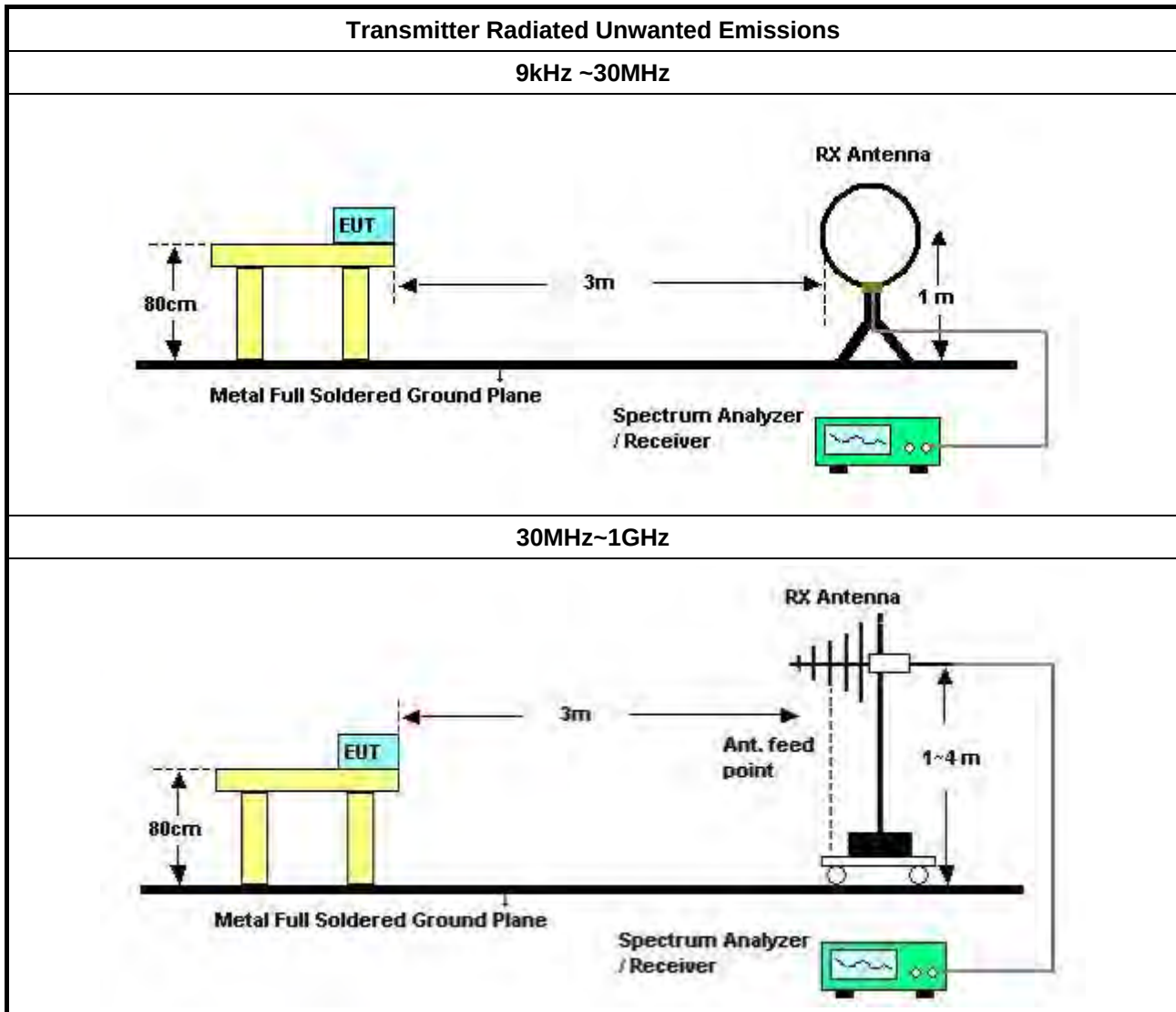
3.5.2 Measuring Instruments

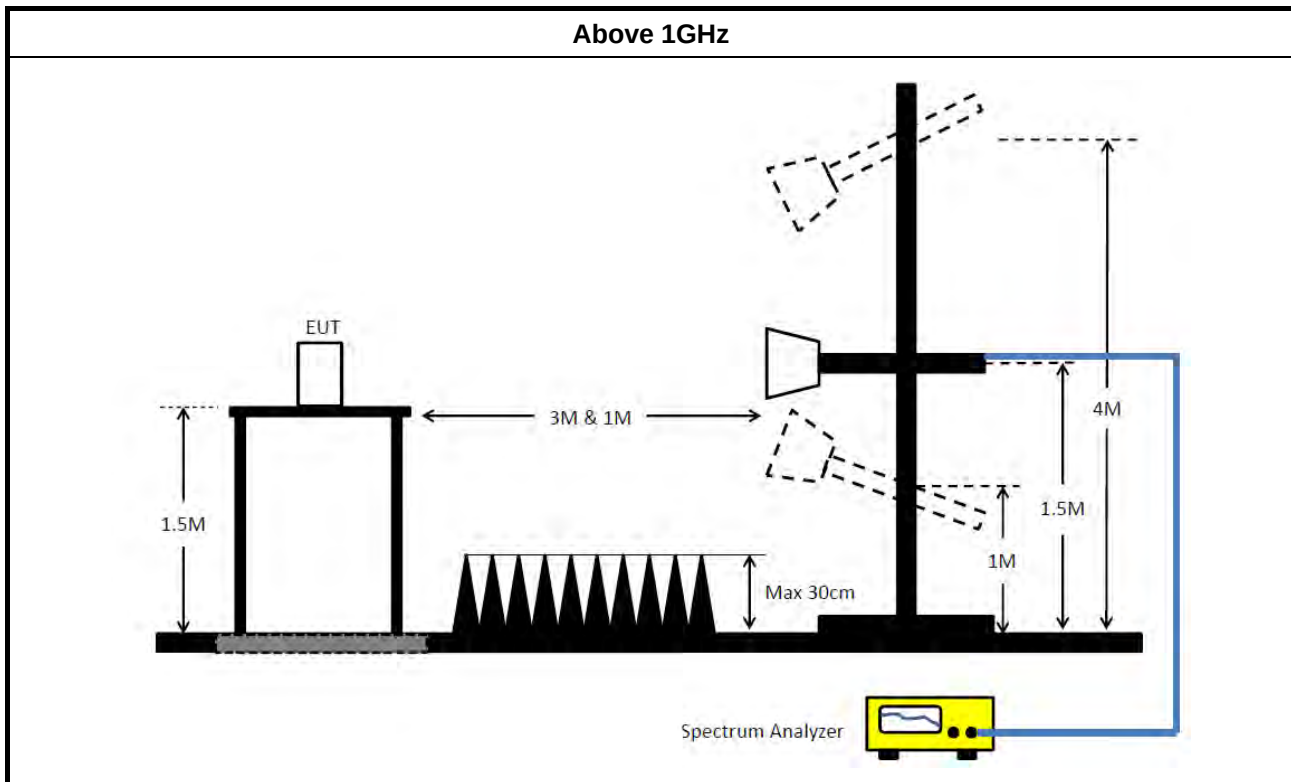
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
☐ 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





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

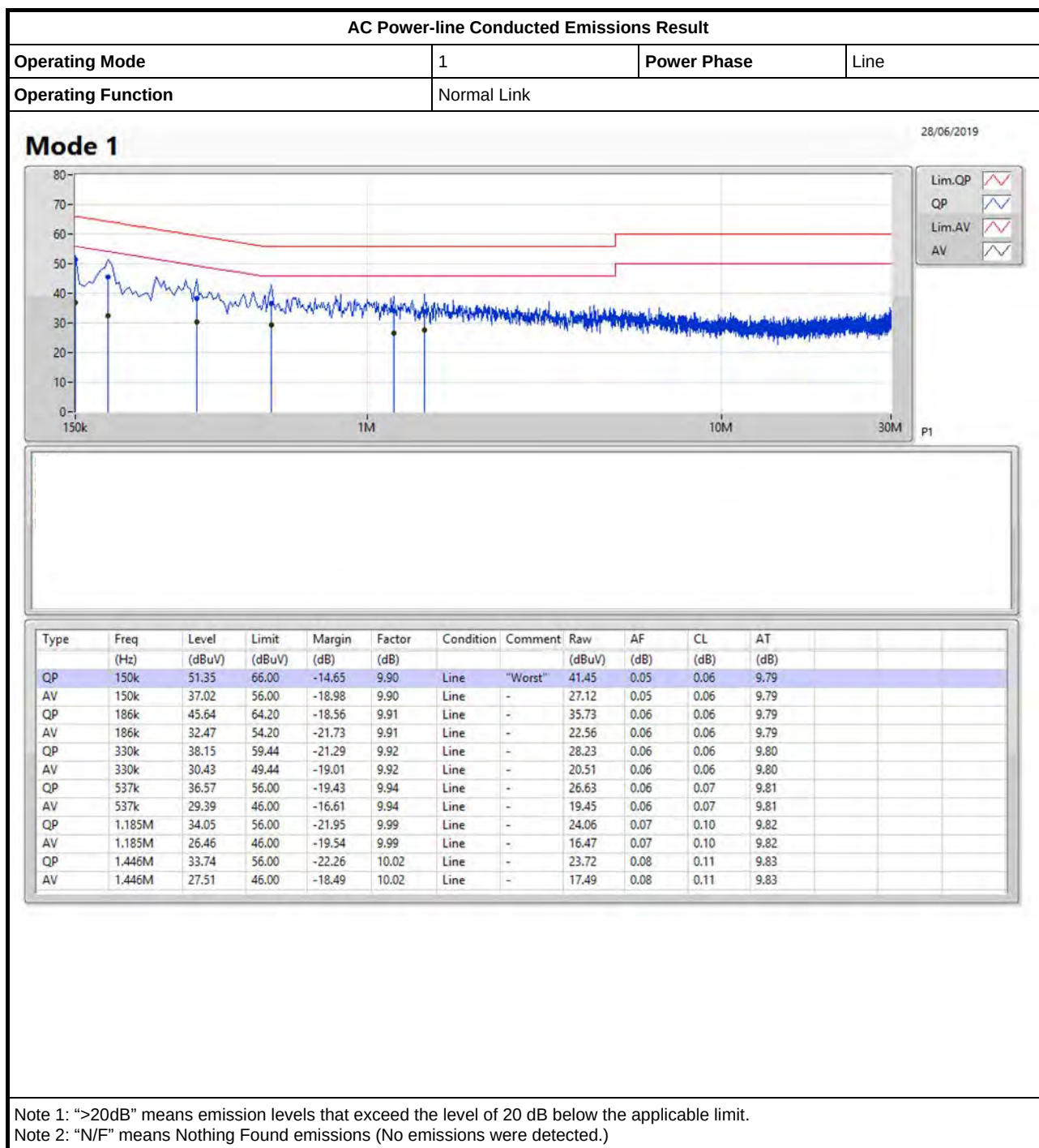
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 28, 2019	Jan. 29, 2020	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-1 6-2	04083	150kHz~100MHz	Dec. 24, 2018	Dec. 23, 2019	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Jan. 11, 2019	Jan. 10, 2020	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Bilog Antenna with 6 dB attenuator	Schaffner	CBL6112B & N-6-06	2928 & AT-N0607	20MHz ~ 2GHz	Jan. 02, 2019	Jan. 01, 2020	Radiation (03CH03-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 16, 2019	Jan. 15, 2020	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP-40	100019	9kHz ~ 40GHz	Jun. 19, 2019	Jun. 18, 2020	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	100359	9kHz ~ 2.75GHz	Jun. 26, 2019	Jun. 25, 2020	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+27	25MHz ~ 1GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH03-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2019	Jan. 07, 2020	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Jan. 31, 2019	Jan. 30, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)

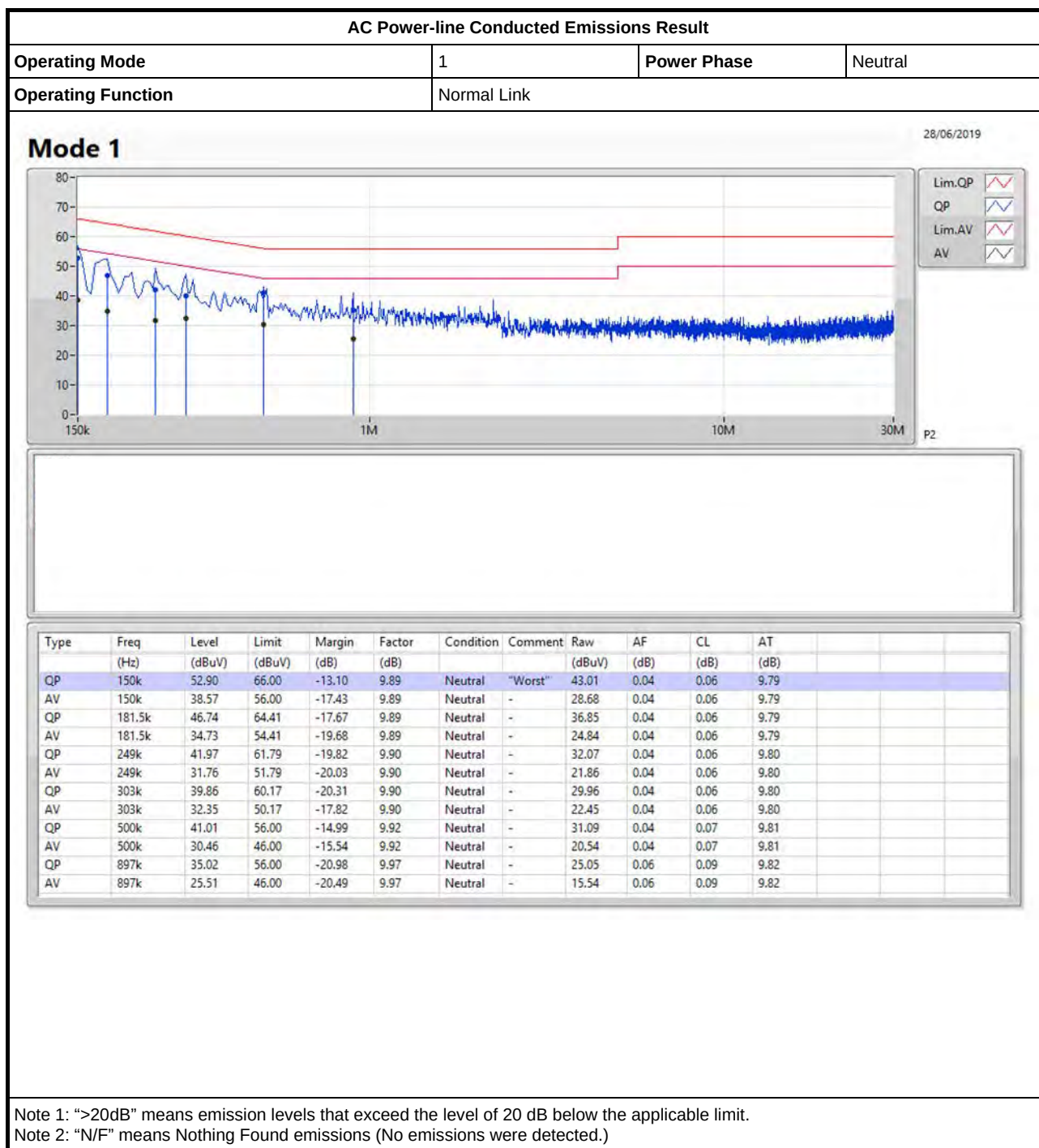


Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted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

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

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





**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	20.61M	16.432M	16M4D1D	19.05M	16.342M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.87M	18.951M	19M0D1D	21.06M	18.861M
802.11ax HEW40_Nss1,(MCS0)_4TX	42.78M	37.781M	37M8D1D	40.86M	37.601M
802.11ax HEW80_Nss1,(MCS0)_4TX	83.16M	77.361M	77M4D1D	82.32M	77.001M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.67M	19.04M	19M0D1D	21M	18.861M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	41.94M	37.781M	37M8D1D	40.5M	37.661M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.72M	77.241M	77M2D1D	81.12M	76.882M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

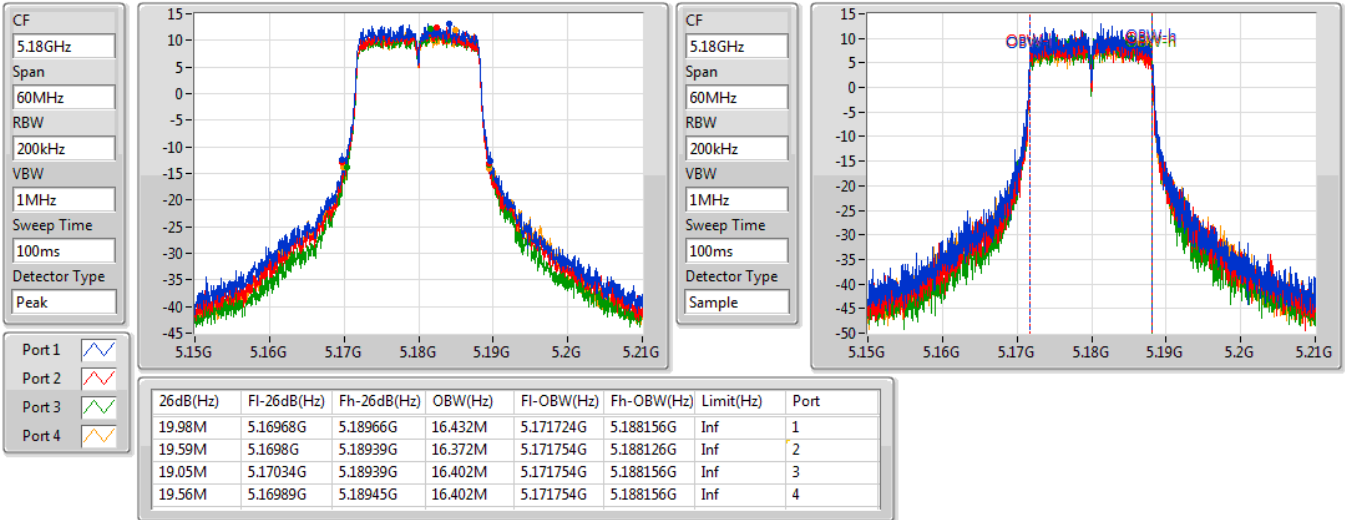
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.98M	16.432M	19.59M	16.372M	19.05M	16.402M	19.56M	16.402M
5200MHz	Pass	Inf	20.52M	16.402M	19.68M	16.372M	19.35M	16.342M	20.43M	16.432M
5240MHz	Pass	Inf	20.49M	16.402M	20.28M	16.372M	19.62M	16.372M	20.61M	16.402M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.27M	18.921M	21.18M	18.861M	21.06M	18.921M	21.48M	18.891M
5200MHz	Pass	Inf	21.87M	18.921M	21.12M	18.891M	21.42M	18.921M	21.27M	18.921M
5240MHz	Pass	Inf	21.63M	18.951M	21.36M	18.951M	21.81M	18.921M	21.66M	18.951M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.86M	37.781M	40.92M	37.601M	40.92M	37.781M	41.1M	37.721M
5230MHz	Pass	Inf	42.54M	37.781M	42.78M	37.781M	41.28M	37.721M	41.34M	37.721M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.32M	77.001M	82.8M	77.121M	83.16M	77.361M	82.56M	77.121M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	25.32M	18.951M	21.51M	18.861M	21.3M	18.921M	26.55M	18.921M
5200MHz	Pass	Inf	25.92M	18.981M	24.57M	18.891M	22.2M	18.891M	21.39M	18.951M
5240MHz	Pass	Inf	29.67M	18.981M	22.83M	18.891M	21M	19.04M	23.55M	18.921M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.1M	37.721M	40.74M	37.661M	41.94M	37.721M	40.86M	37.661M
5230MHz	Pass	Inf	40.86M	37.721M	41.64M	37.781M	40.5M	37.661M	40.56M	37.661M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.72M	77.121M	81.72M	76.882M	81.12M	77.001M	81.24M	77.241M

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

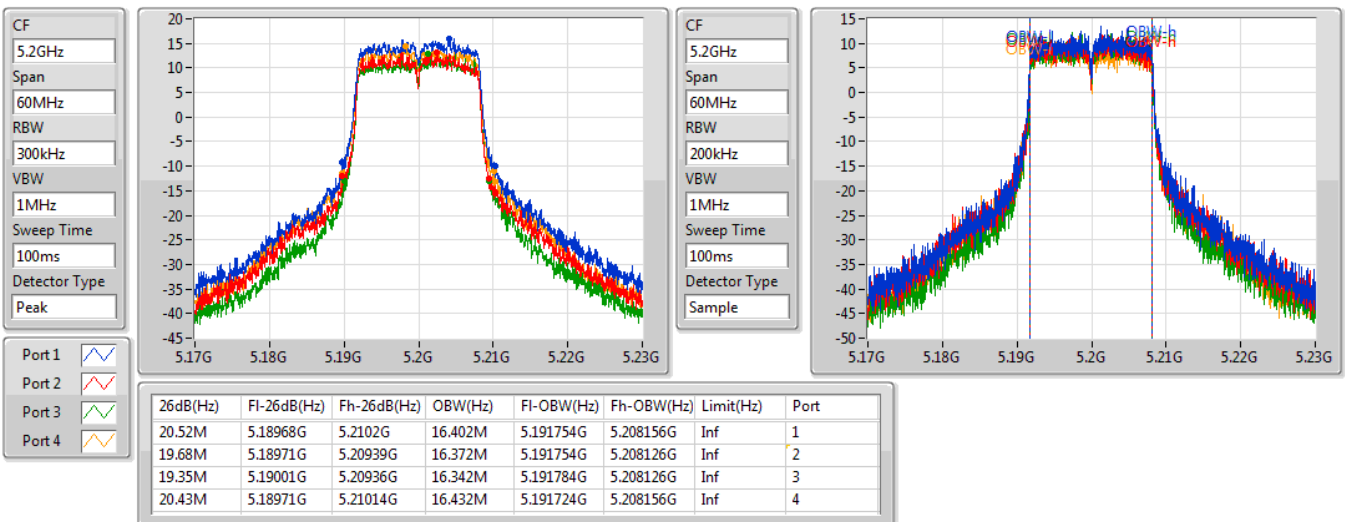
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX
EBW
5180MHz

14/06/2019

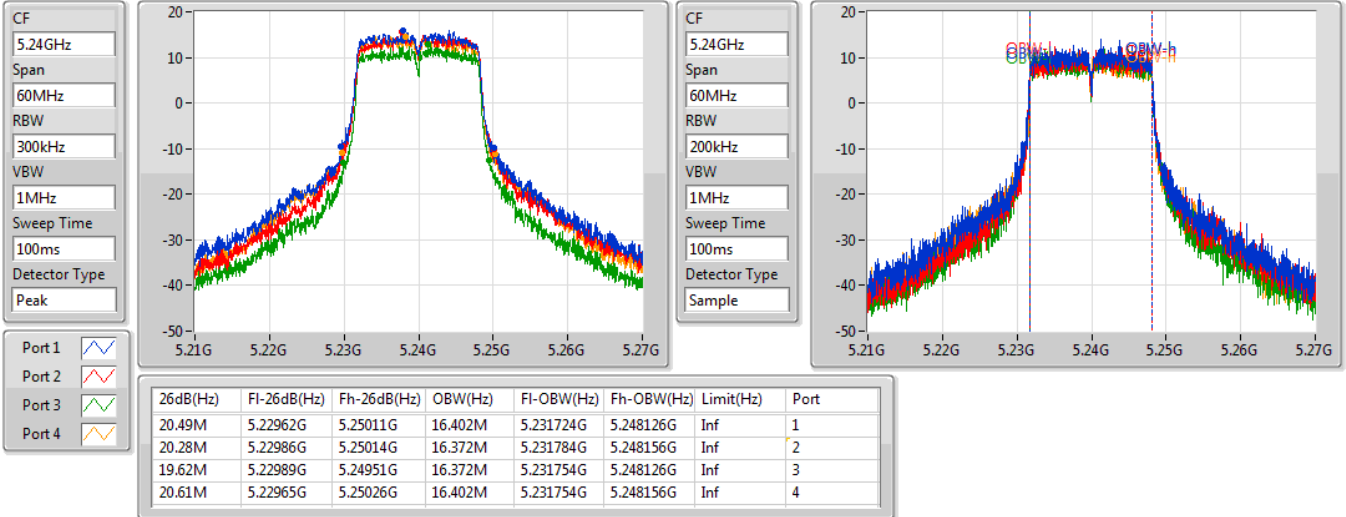

802.11a_Nss1,(6Mbps)_4TX
EBW
5200MHz

14/06/2019

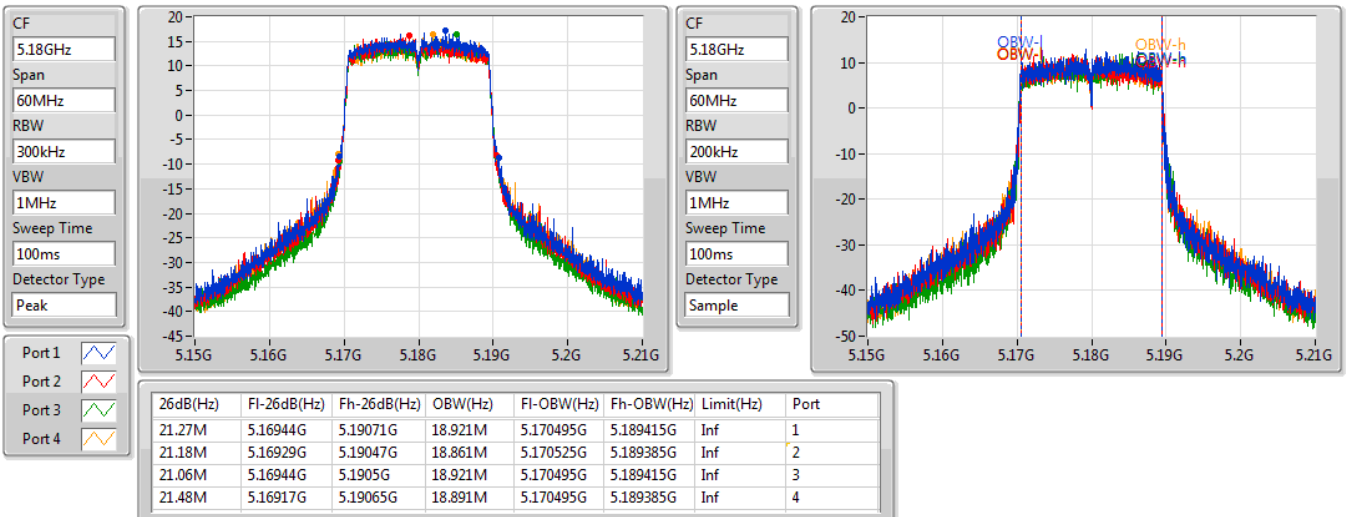


802.11a_Nss1,(6Mbps)_4TX
EBW
5240MHz

14/06/2019

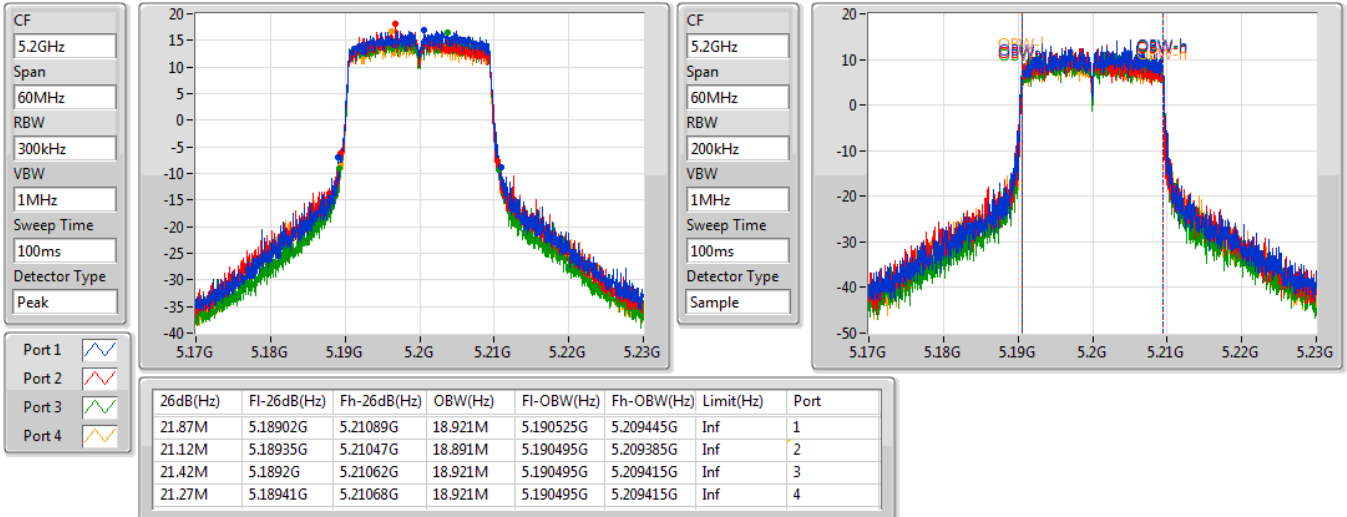

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5180MHz

14/06/2019

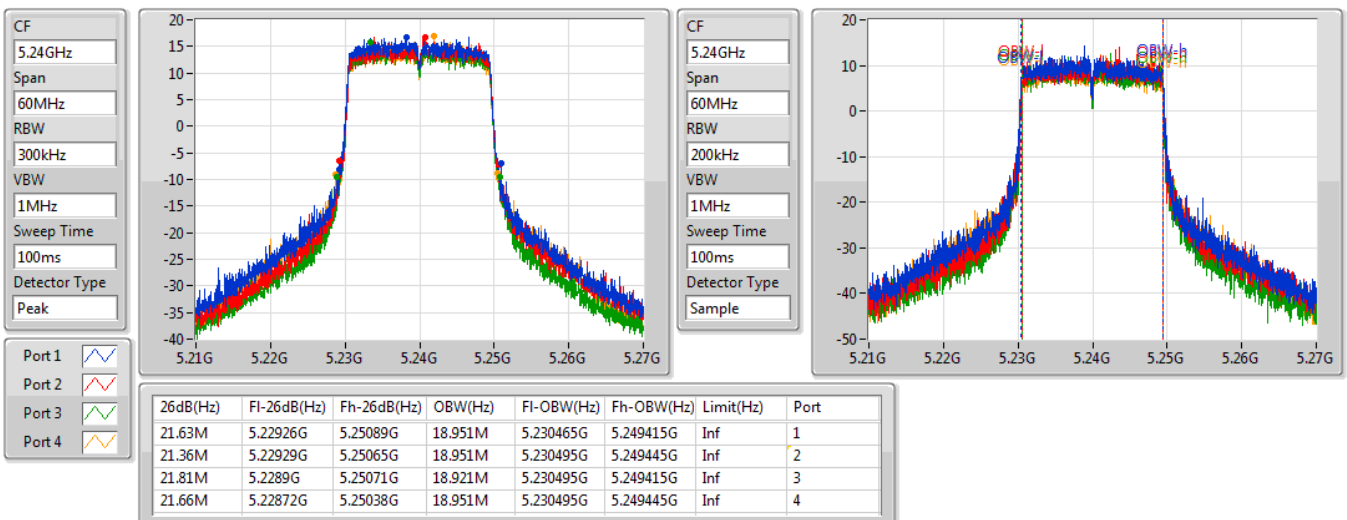


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5200MHz

14/06/2019

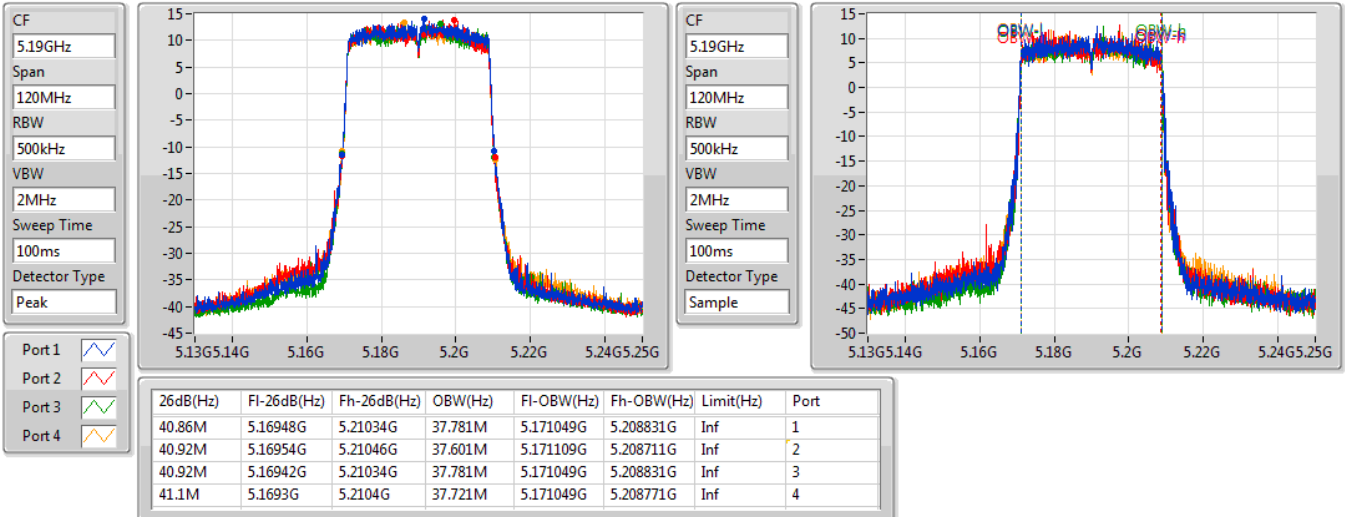

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5240MHz

14/06/2019

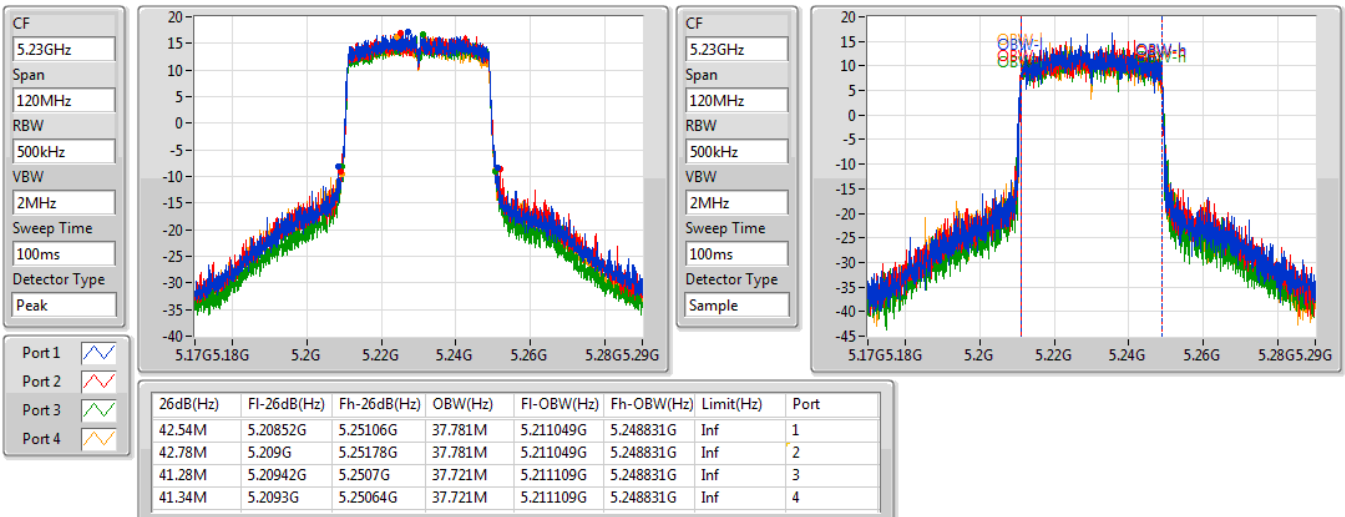


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5190MHz

05/06/2019

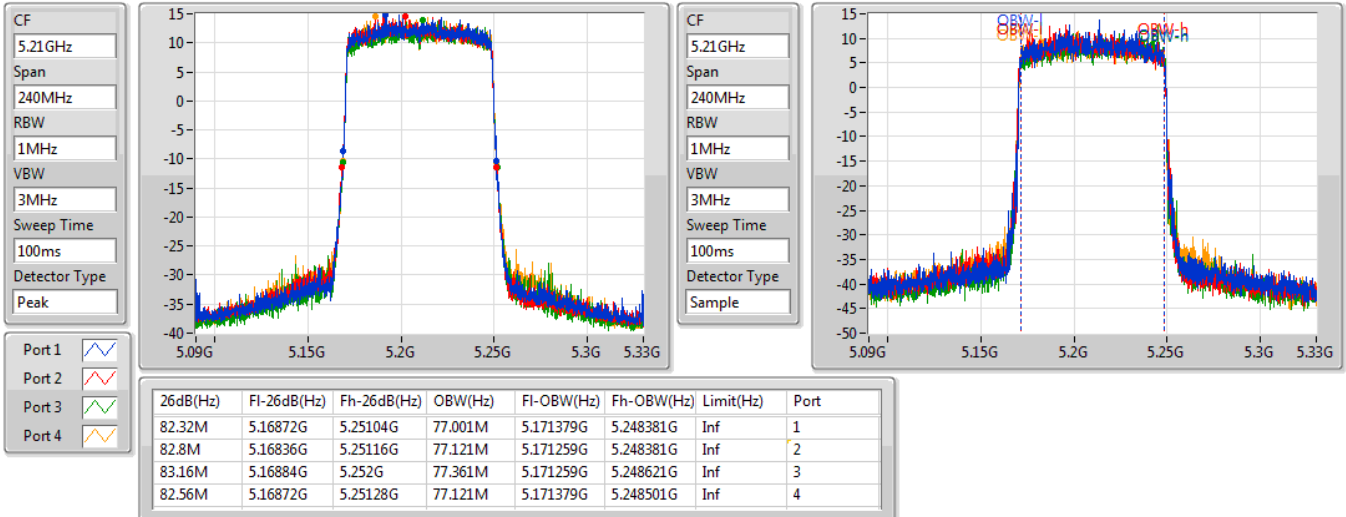

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5230MHz

14/06/2019

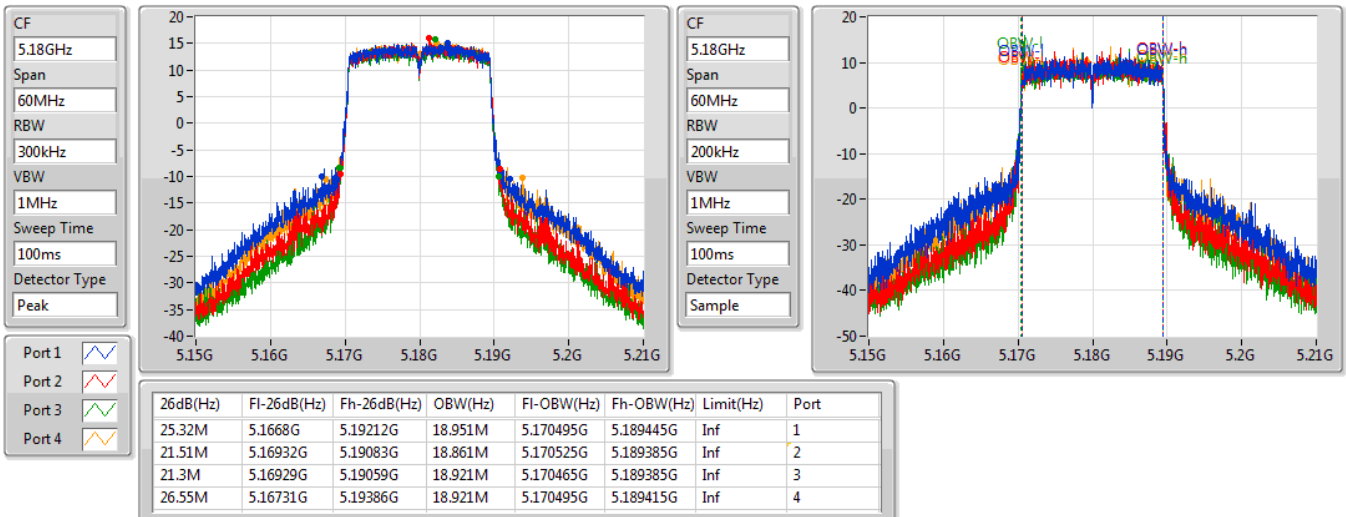


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5210MHz

05/06/2019

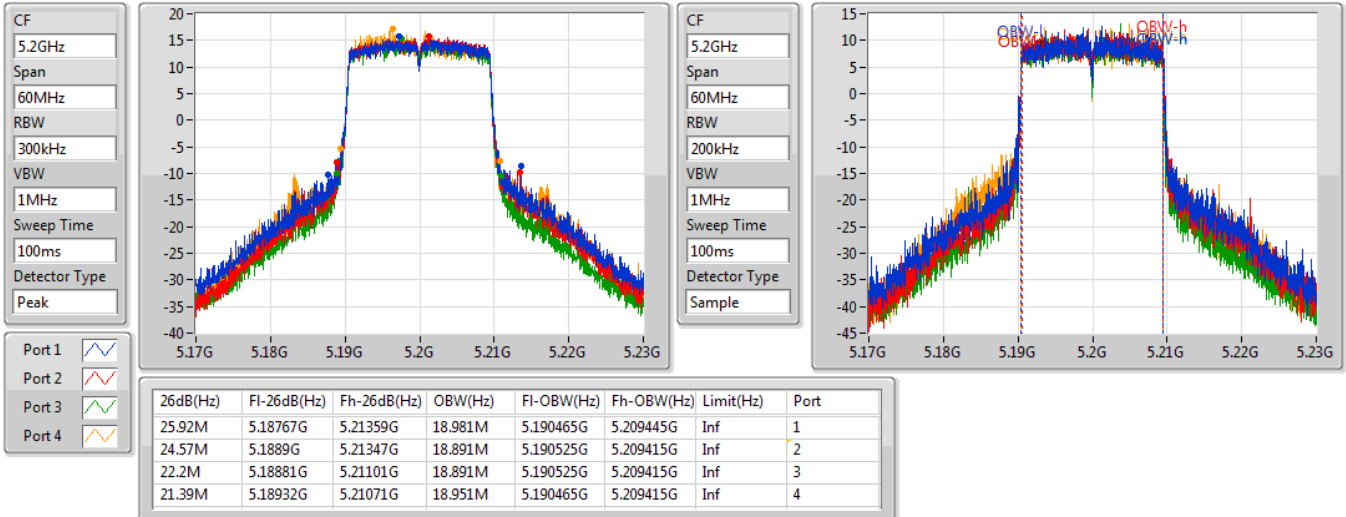

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5180MHz

13/06/2019

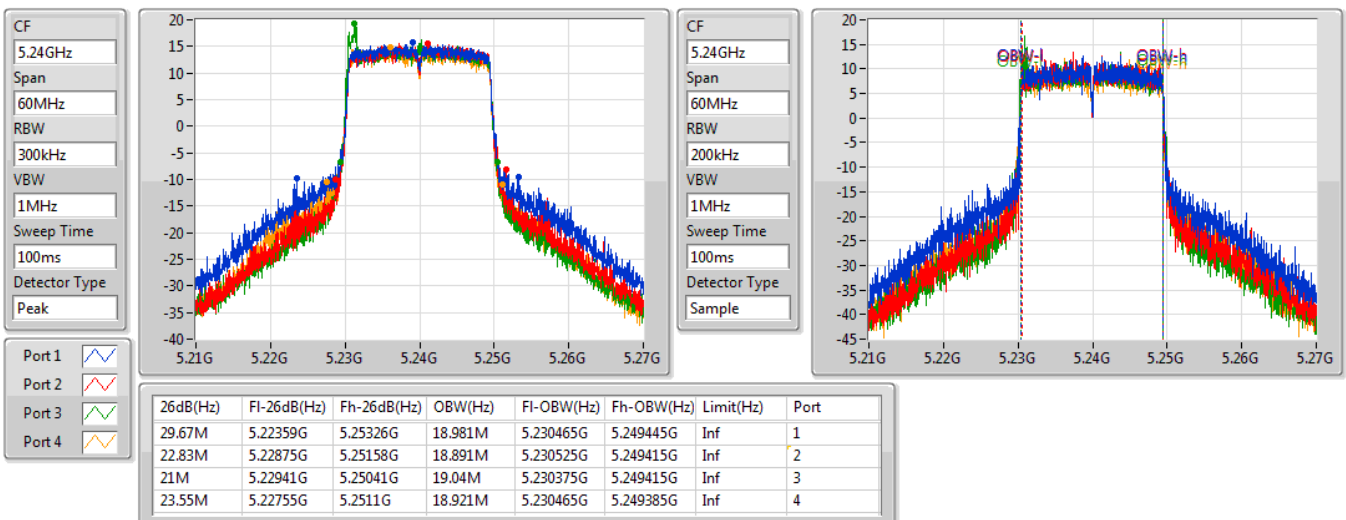


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5200MHz

13/06/2019

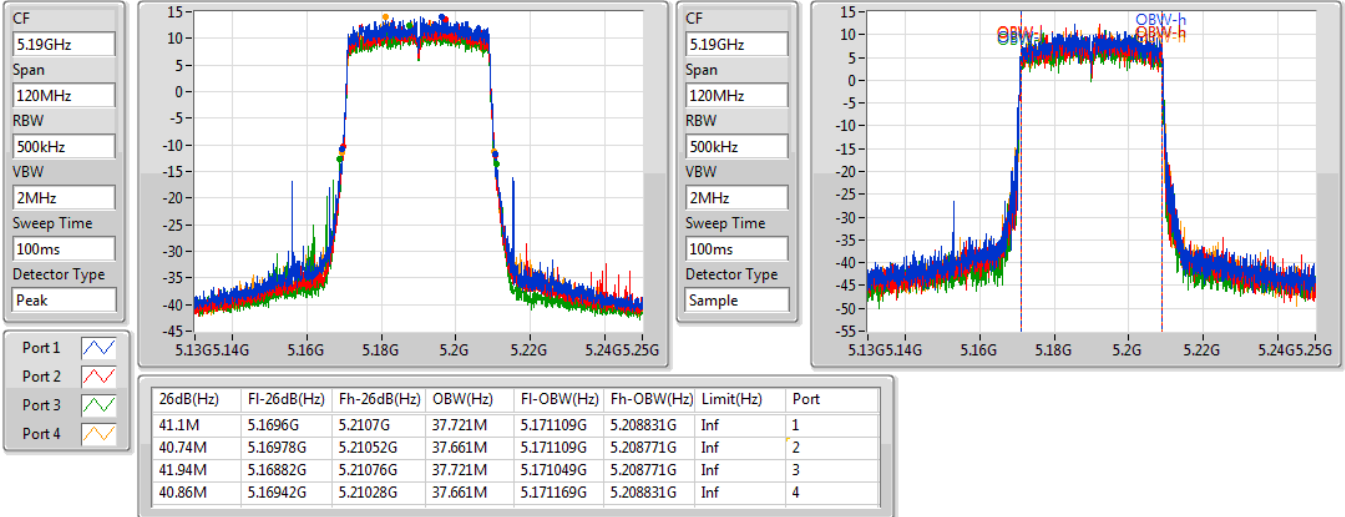

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5240MHz

13/06/2019

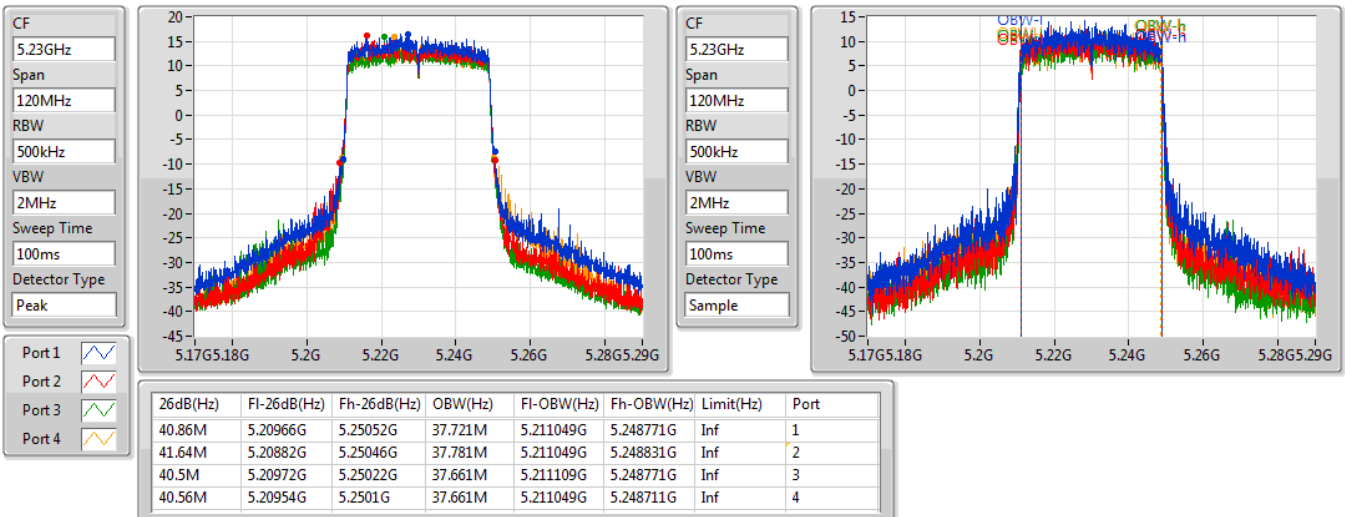


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5190MHz

13/06/2019


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5230MHz

13/06/2019

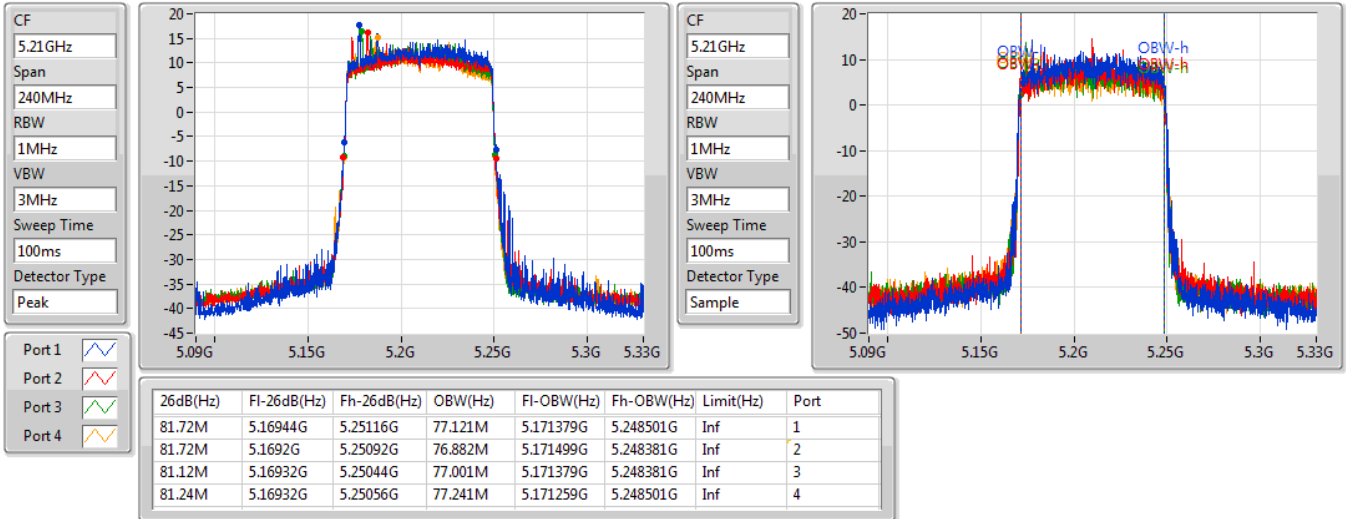


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

13/06/2019



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.38M	19.02M	19M0D1D	16.35M	17.58M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.84M	20.01M	20M0D1D	18.24M	19.2M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.98M	39.66M	39M7D1D	37.38M	38.16M
802.11ax HEW80_Nss1,(MCS0)_2TX	77.64M	77.4M	77M4D1D	76.8M	77.28M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.925M	18.916M	18M9D1D	17.925M	18.866M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	38M	37.881M	37M9D1D	36.65M	37.681M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	76.3M	77.261M	77M3D1D	73.7M	77.161M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

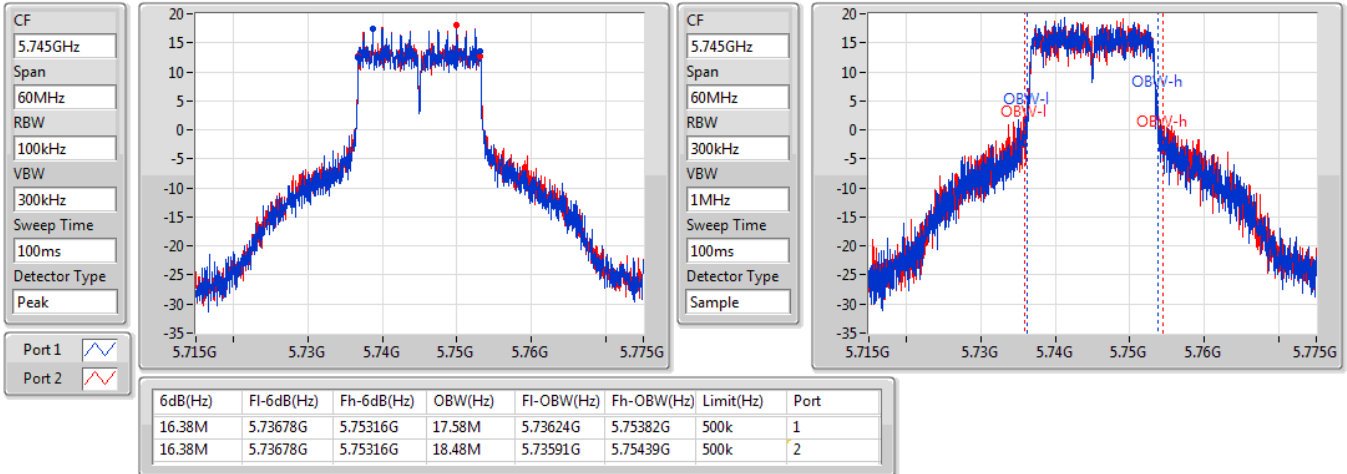
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5745MHz	Pass	500k	16.38M	17.58M	16.38M	18.48M
5785MHz	Pass	500k	16.35M	18.81M	16.35M	19.02M
5825MHz	Pass	500k	16.38M	17.88M	16.35M	18.03M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5745MHz	Pass	500k	18.51M	19.26M	18.6M	19.32M
5785MHz	Pass	500k	18.75M	19.44M	18.24M	19.62M
5825MHz	Pass	500k	18.84M	20.01M	18.57M	19.2M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5755MHz	Pass	500k	37.92M	38.16M	37.38M	38.16M
5795MHz	Pass	500k	37.98M	39.66M	37.56M	38.34M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz	Pass	500k	77.64M	77.4M	76.8M	77.28M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5745MHz	Pass	500k	18.6M	18.916M	17.925M	18.891M
5785MHz	Pass	500k	18.8M	18.866M	18.325M	18.891M
5825MHz	Pass	500k	18.925M	18.891M	18.175M	18.916M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5755MHz	Pass	500k	37.25M	37.731M	36.65M	37.731M
5795MHz	Pass	500k	38M	37.881M	37.95M	37.681M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz	Pass	500k	73.7M	77.161M	76.3M	77.261M

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

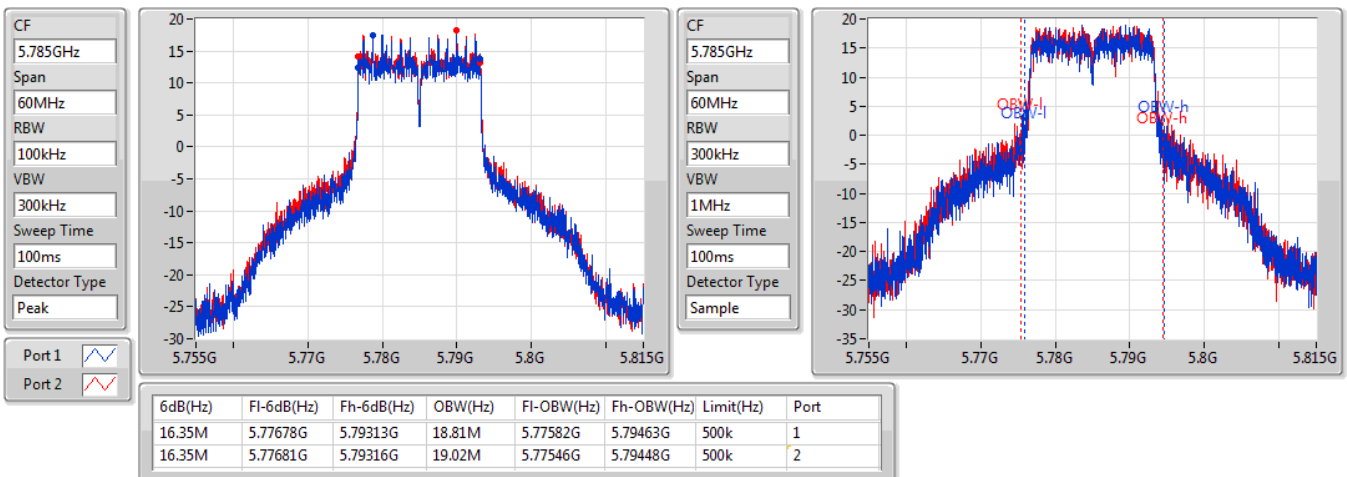
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

25/06/2019

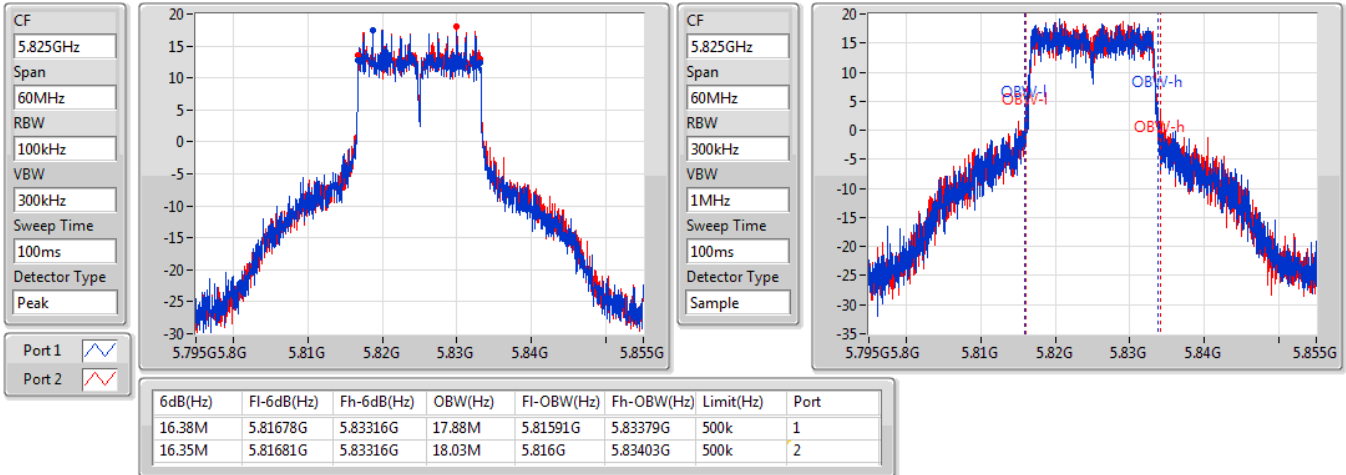

802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

25/06/2019

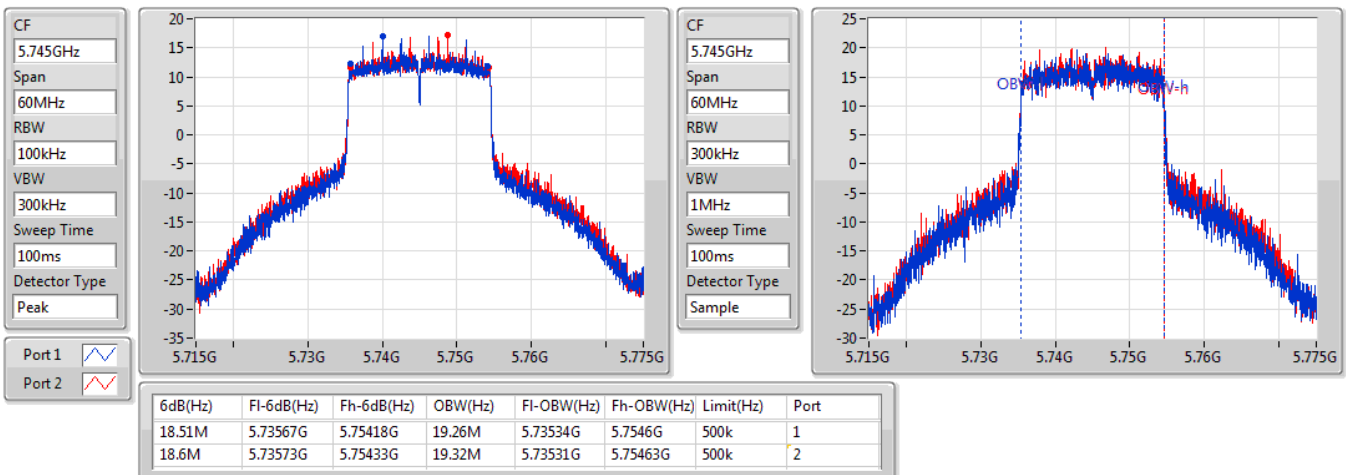


802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

25/06/2019

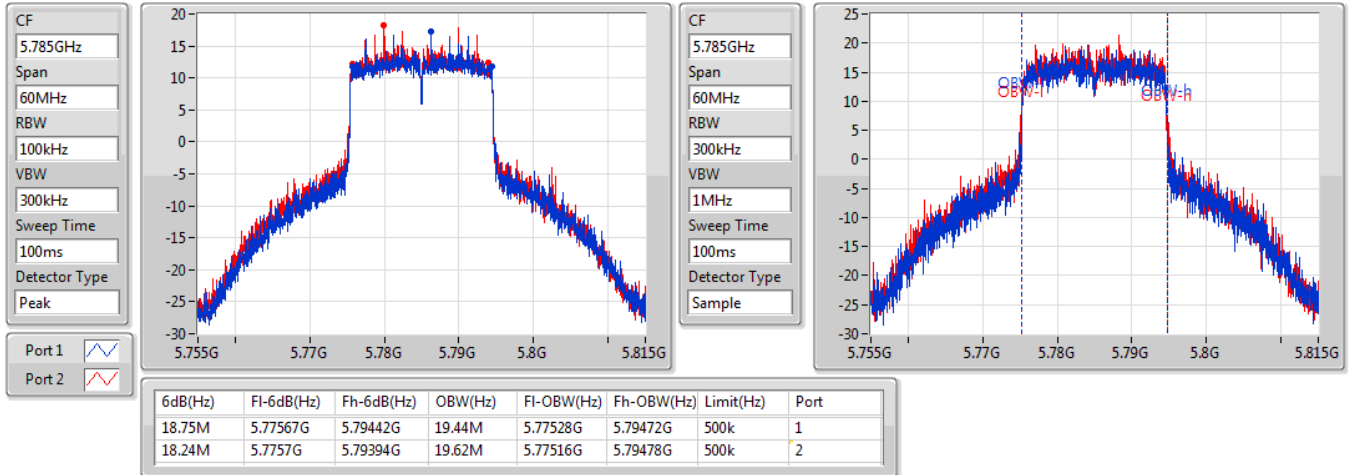

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5745MHz

25/06/2019

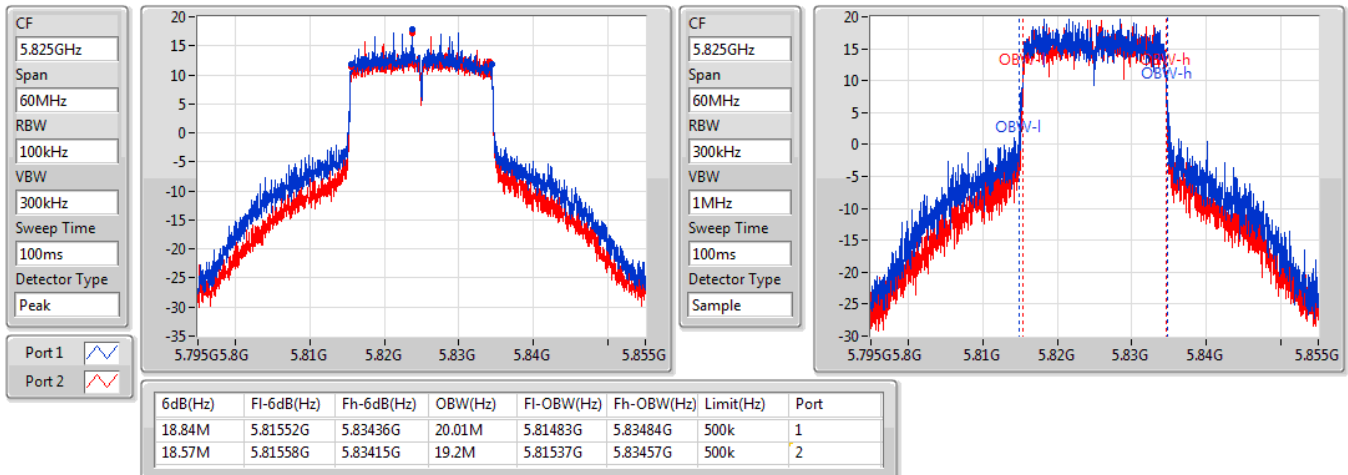


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5785MHz

25/06/2019

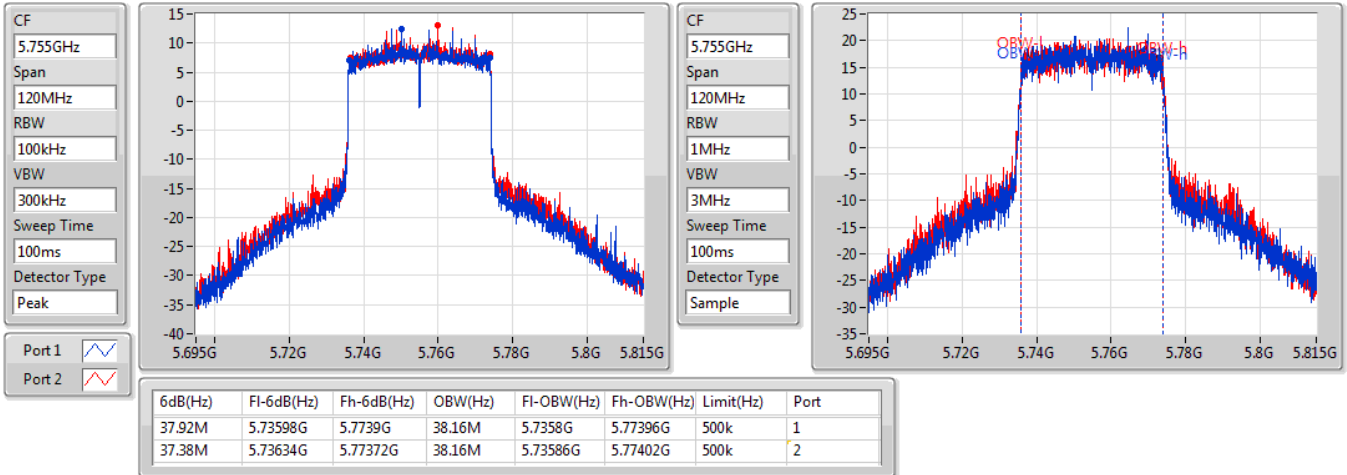

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5825MHz

25/06/2019

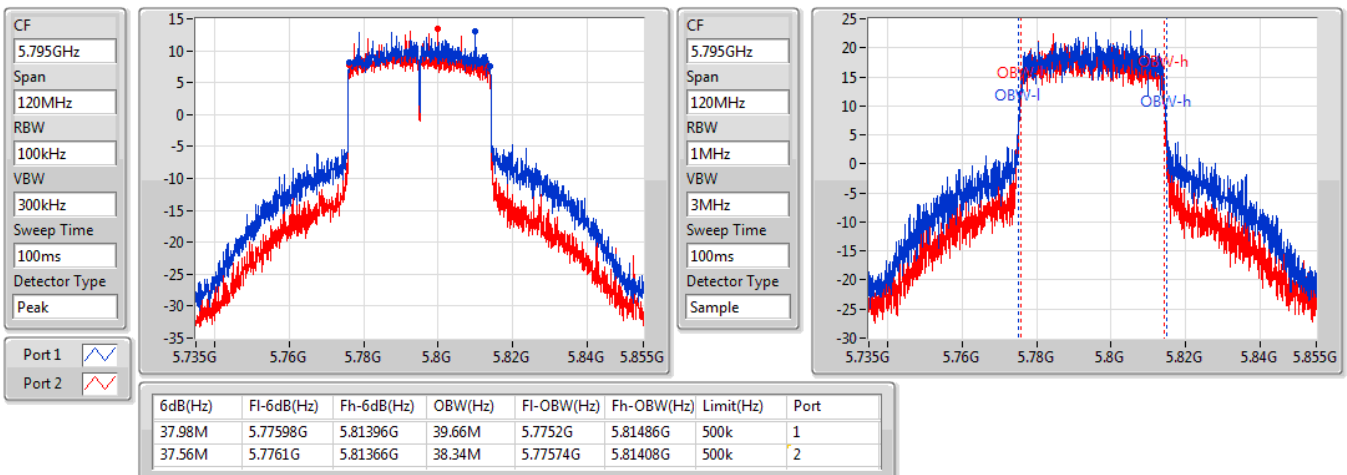


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5755MHz

25/06/2019

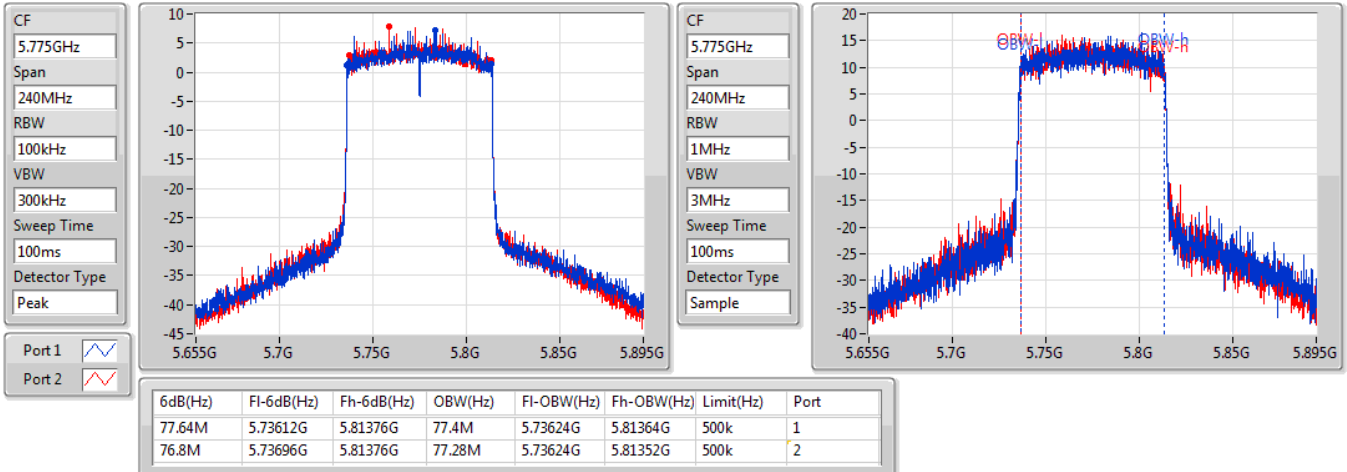

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5795MHz

25/06/2019

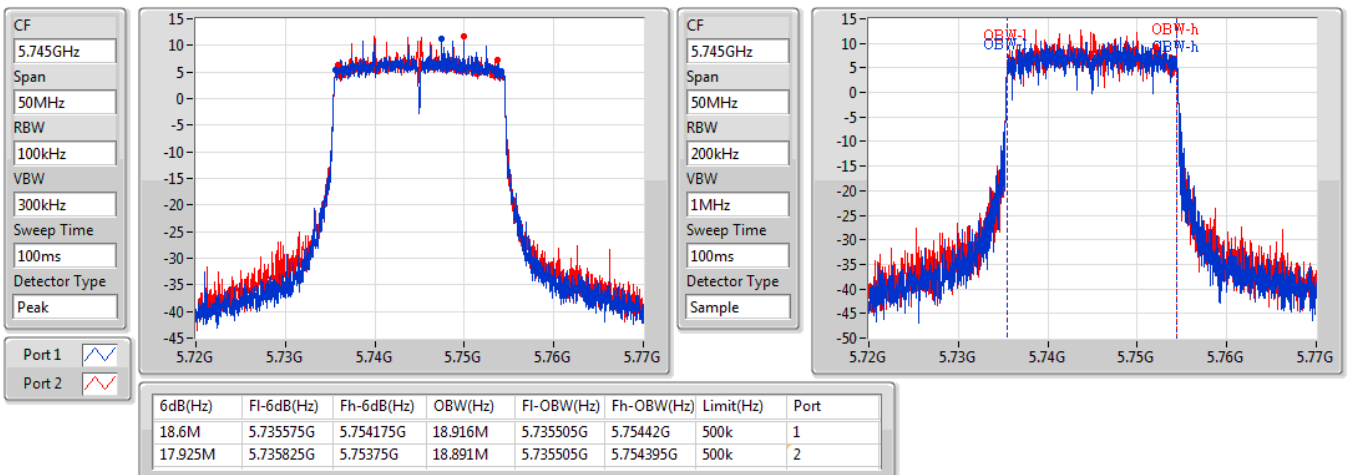


802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
5775MHz

25/06/2019

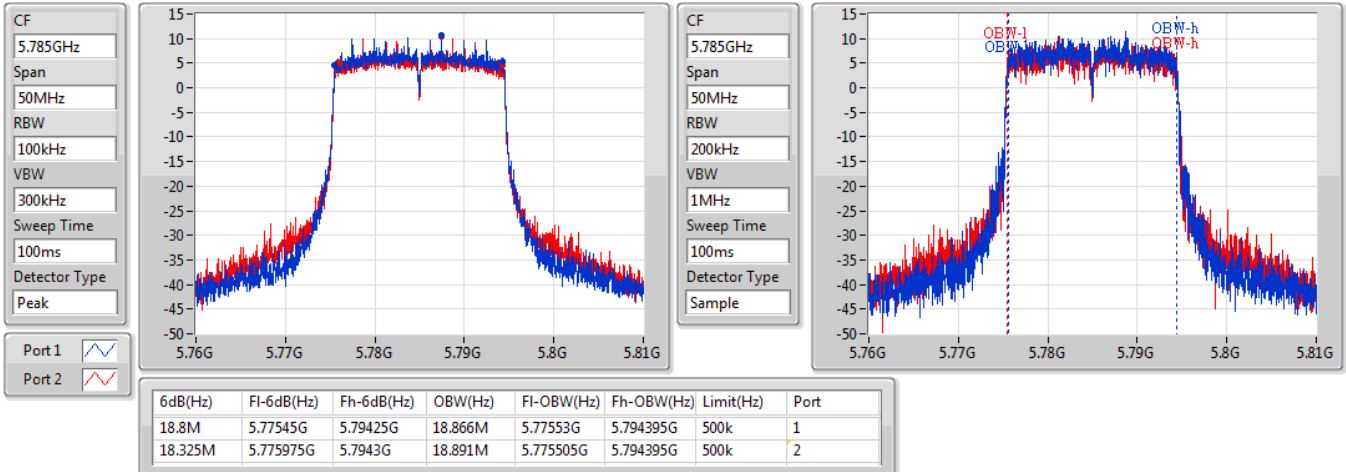

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5745MHz

29/06/2019

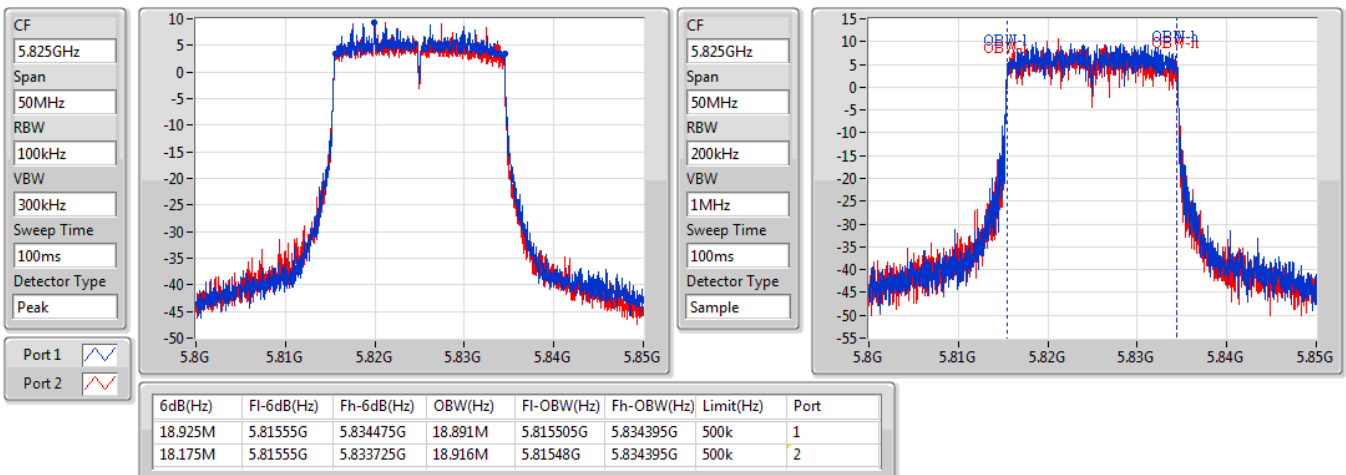


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5785MHz

29/06/2019

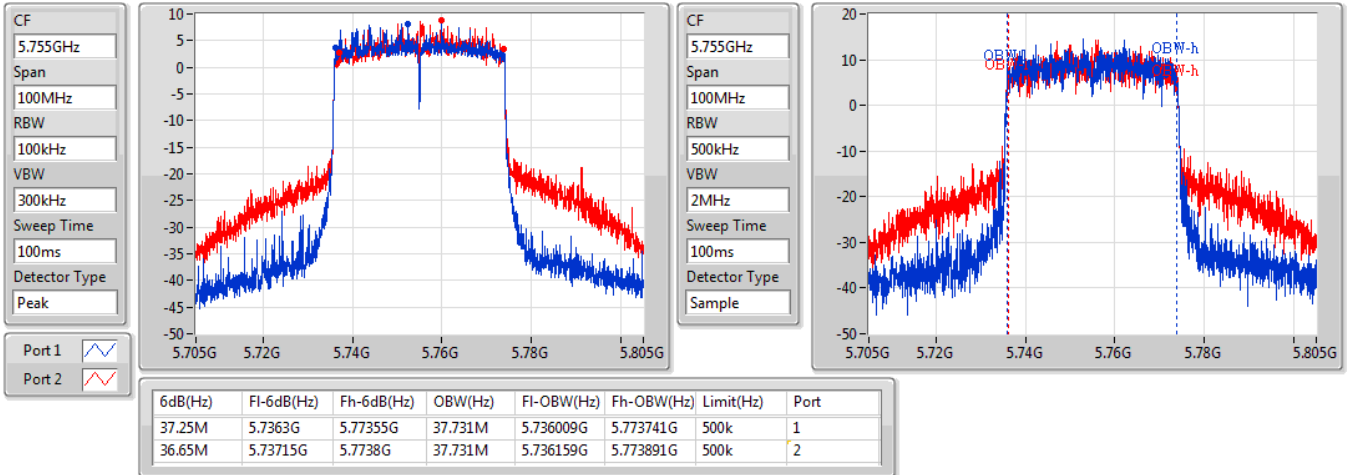

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5825MHz

29/06/2019

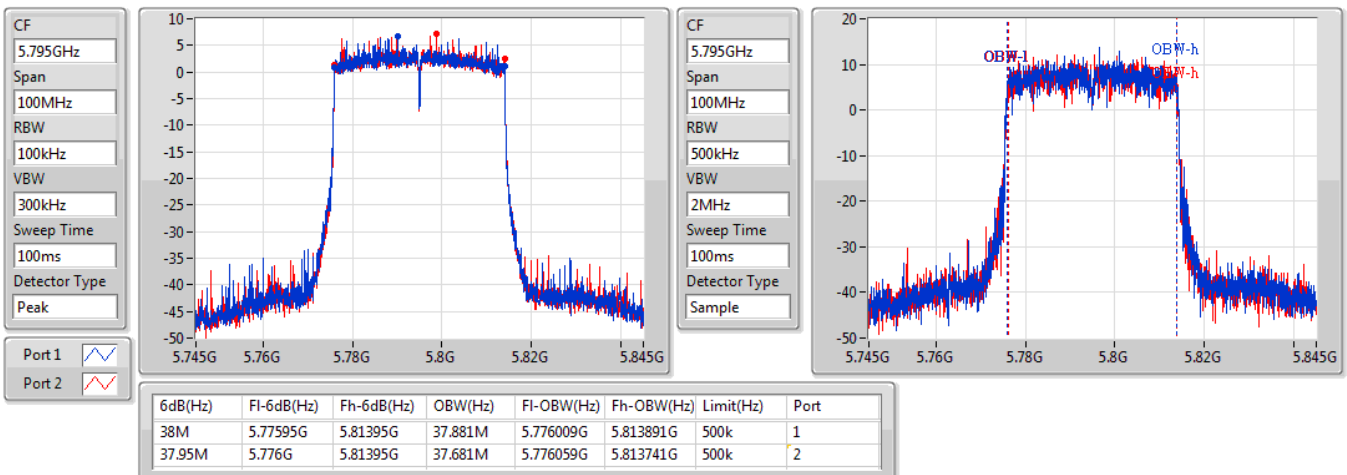


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5755MHz

29/06/2019


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5795MHz

29/06/2019

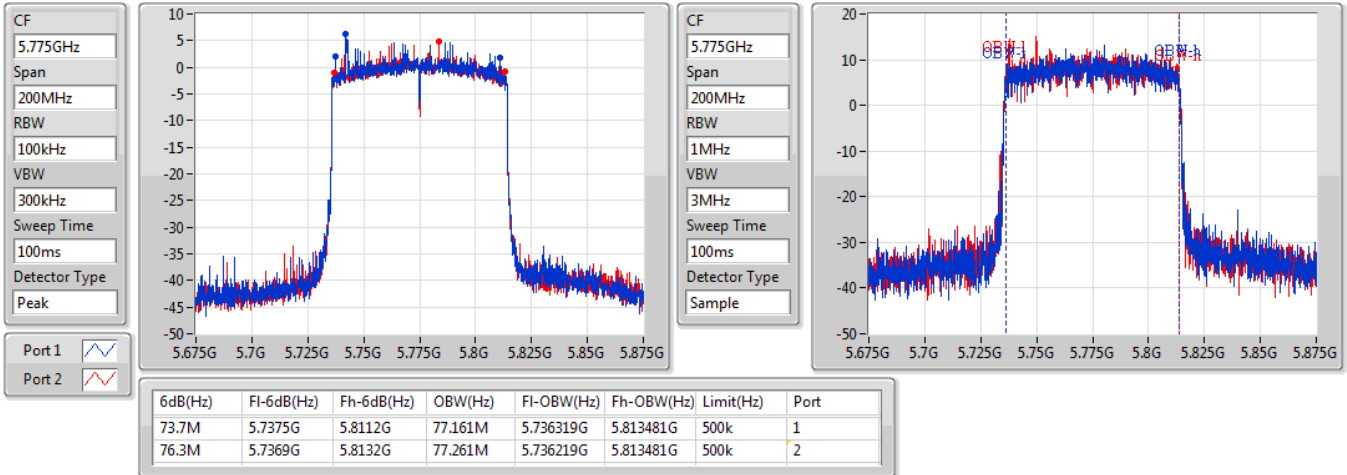


802.11ax HEW80-BF_Nss1,(MCS0)_2TX

EBW

5775MHz

29/06/2019





Average Power Result

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.83	0.96161
802.11ax HEW20_Nss1,(MCS0)_4TX	29.74	0.94189
802.11ax HEW40_Nss1,(MCS0)_4TX	29.86	0.96828
802.11ax HEW80_Nss1,(MCS0)_4TX	26.14	0.41115
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.46	0.88308
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	28.80	0.75858
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	26.01	0.39902



Average Power Result

Appendix C.1

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	5.76	23.98	23.19	22.86	22.94	29.29	30.00
5200MHz	Pass	5.76	24.55	23.61	23.22	23.02	29.66	30.00
5240MHz	Pass	5.76	24.6	23.82	23.47	23.21	29.83	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.76	23.92	23.34	22.97	23.02	29.35	30.00
5200MHz	Pass	5.76	24.56	23.72	23.42	23.03	29.74	30.00
5240MHz	Pass	5.76	24.22	23.86	23.34	23.34	29.73	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.76	20.53	20.46	19.95	20.18	26.31	30.00
5230MHz	Pass	5.76	24.29	24.05	23.46	23.48	29.86	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.76	20.1	20.48	19.94	19.92	26.14	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.76	23.1	21.51	20.26	21.81	27.81	30.00
5200MHz	Pass	5.76	23.58	23.86	23.01	23.26	29.46	30.00
5240MHz	Pass	5.76	23.47	23.42	23.02	22.8	29.21	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.76	21.91	20.51	20.43	20.63	26.93	30.00
5230MHz	Pass	5.76	23.39	23.78	21.49	22.06	28.80	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.76	20.44	19.85	19.84	19.78	26.01	30.00

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



Average Power Result

Appendix C.2

Summary

Mode	Total Power (dBm)	Total Power (W)
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	29.97	0.99312
802.11ax HEW20_Nss1,(MCS0)_2TX	29.93	0.98401
802.11ax HEW40_Nss1,(MCS0)_2TX	29.59	0.90991
802.11ax HEW80_Nss1,(MCS0)_2TX	26.87	0.48641
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	25.44	0.34995
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.48	0.35318
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	25.23	0.33343



Average Power Result

Appendix C.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5745MHz	Pass	2.96	26.57	26.84	29.72	30.00
5785MHz	Pass	2.96	26.75	27.16	29.97	30.00
5825MHz	Pass	2.96	26.47	26.85	29.67	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5745MHz	Pass	2.96	26.6	27.18	29.91	30.00
5785MHz	Pass	2.96	26.42	27.34	29.91	30.00
5825MHz	Pass	2.96	27.12	26.72	29.93	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5755MHz	Pass	2.96	25.59	25.97	28.79	30.00
5795MHz	Pass	2.96	26.96	26.17	29.59	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz	Pass	2.96	23.77	23.94	26.87	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5745MHz	Pass	2.96	22.15	22.58	25.38	30.00
5785MHz	Pass	2.96	22.22	21.78	25.02	30.00
5825MHz	Pass	2.96	22.25	22.61	25.44	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5755MHz	Pass	2.96	22.37	22.57	25.48	30.00
5795MHz	Pass	2.96	21.87	22.27	25.08	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz	Pass	2.96	22.15	22.28	25.23	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	16.45
802.11ax HEW20_Nss1,(MCS0)_4TX	16.03
802.11ax HEW40_Nss1,(MCS0)_4TX	13.35
802.11ax HEW80_Nss1,(MCS0)_4TX	6.89
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	15.56
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	12.18
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	6.57

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	5.76	10.63	10.08	9.8	9.64	15.84	17.00
5200MHz	Pass	5.76	11.56	10.6	10.37	9.73	16.45	17.00
5240MHz	Pass	5.76	10.9	10.39	9.93	9.76	16.09	17.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.76	10.08	9.87	9	9.3	15.35	17.00
5200MHz	Pass	5.76	11.02	10.54	9.68	9.41	16.03	17.00
5240MHz	Pass	5.76	10.54	10.21	9.72	9.66	15.83	17.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.76	4.48	4.21	3.96	3.83	10.00	17.00
5230MHz	Pass	5.76	8.07	7.45	7.28	7.39	13.35	17.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.76	1.38	1.41	0.59	1.02	6.89	17.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.76	8.98	7.44	7.66	7.95	13.96	17.00
5200MHz	Pass	5.76	9.67	10.09	9.43	9.57	15.56	17.00
5240MHz	Pass	5.76	9.91	9.94	9.47	9.05	15.44	17.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.76	4.82	4.53	3.48	4.15	9.94	17.00
5230MHz	Pass	5.76	7.25	6	5.39	6.26	12.18	17.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.76	2.05	1.2	0.14	-0.55	6.57	17.00

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

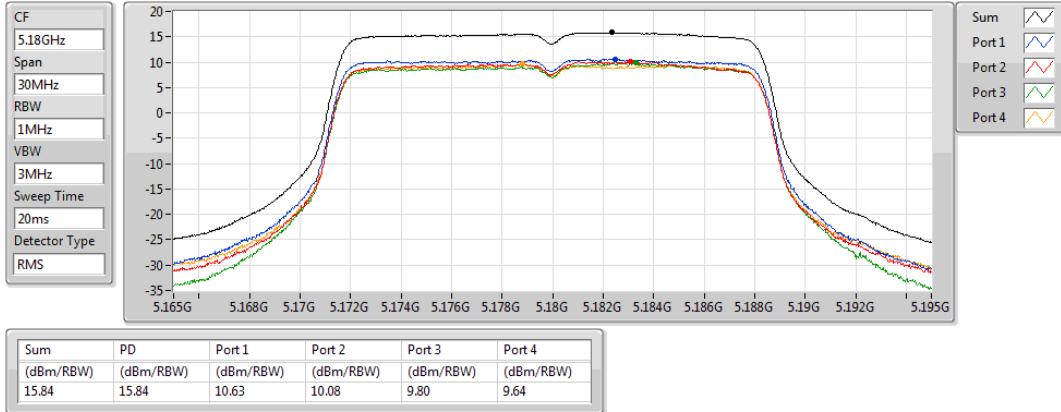
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5180MHz

14/06/2019

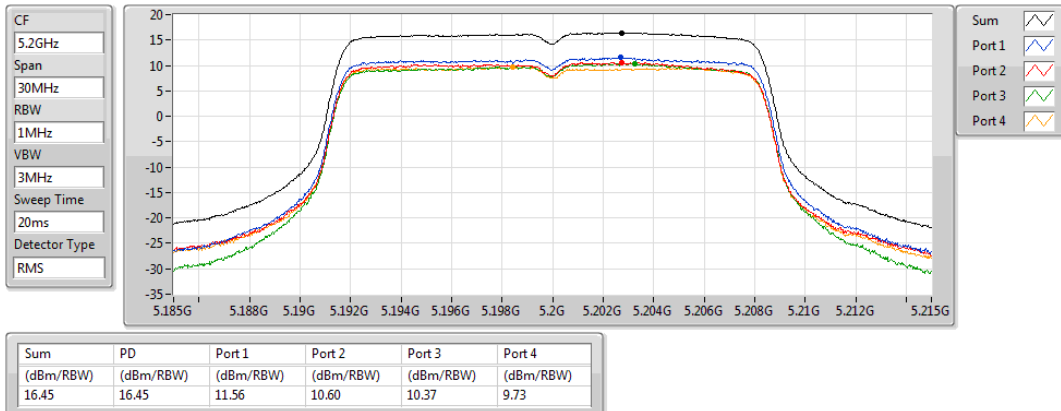


802.11a_Nss1,(6Mbps)_4TX

PSD

5200MHz

14/06/2019

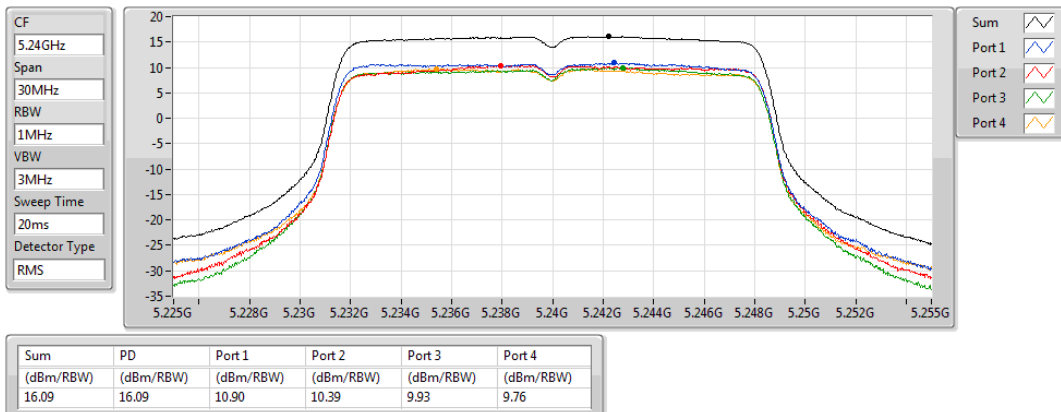


802.11a_Nss1,(6Mbps)_4TX

PSD

5240MHz

14/06/2019

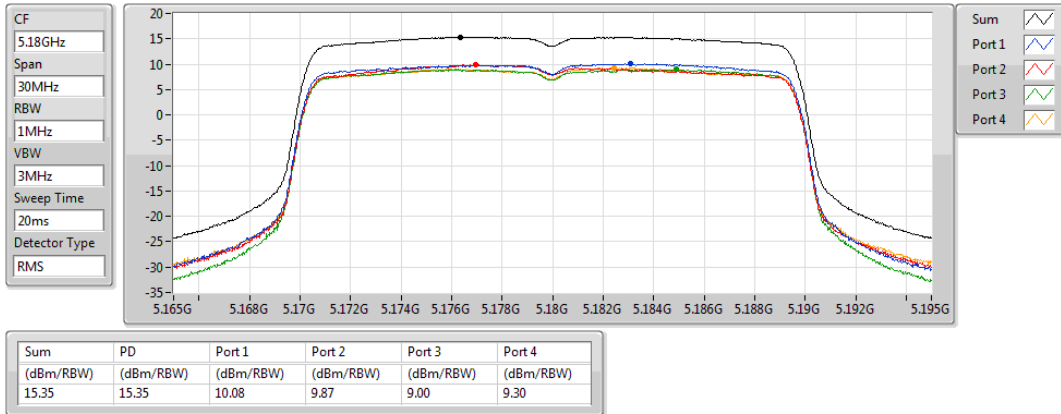


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5180MHz

14/06/2019

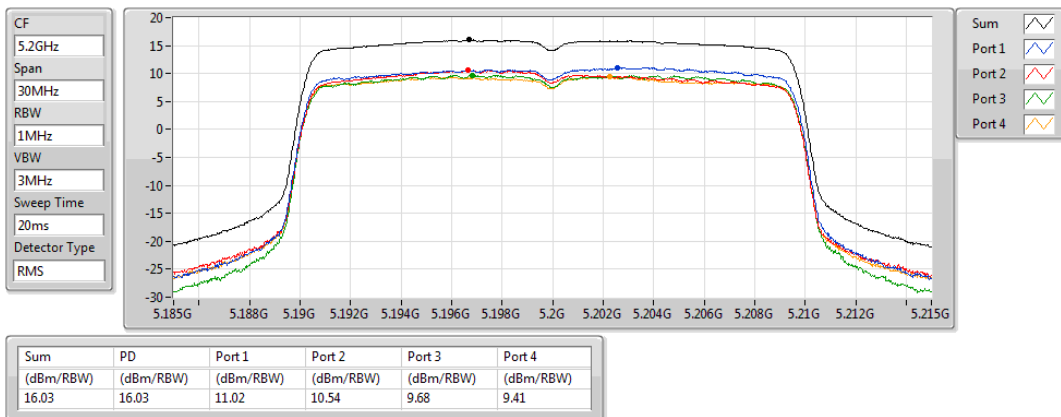


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5200MHz

14/06/2019

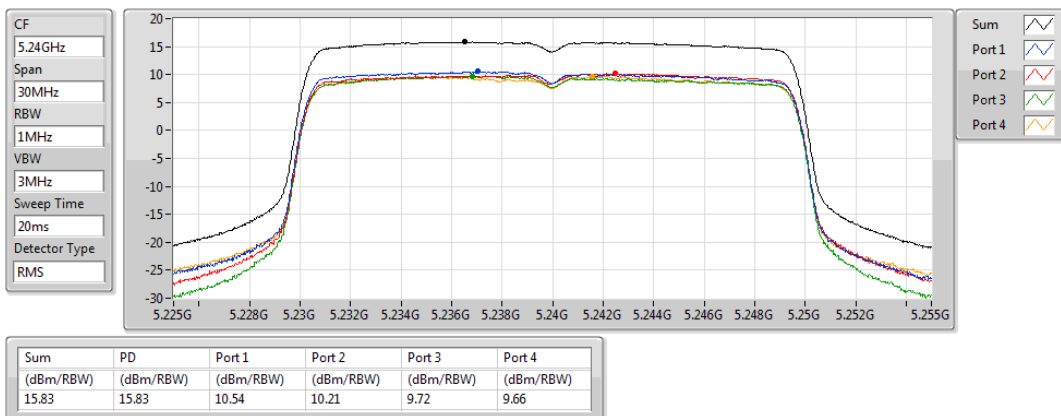


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5240MHz

14/06/2019

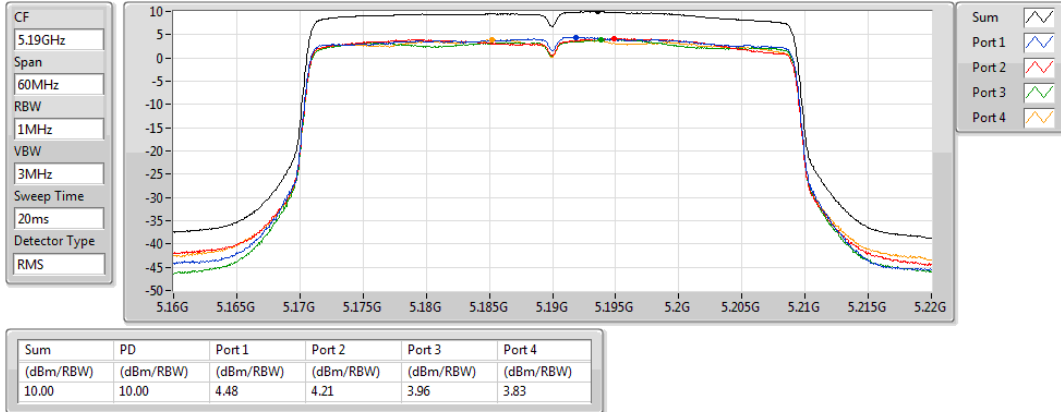


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5190MHz

05/06/2019

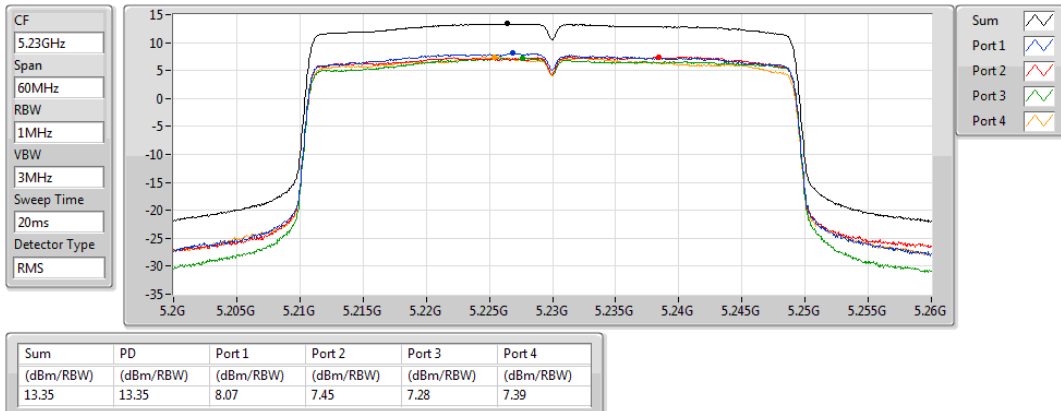


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5230MHz

14/06/2019

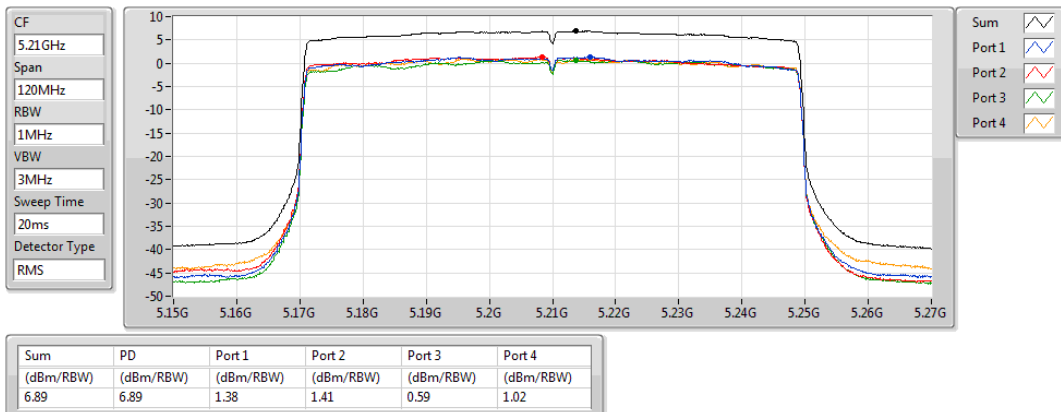


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5210MHz

05/06/2019

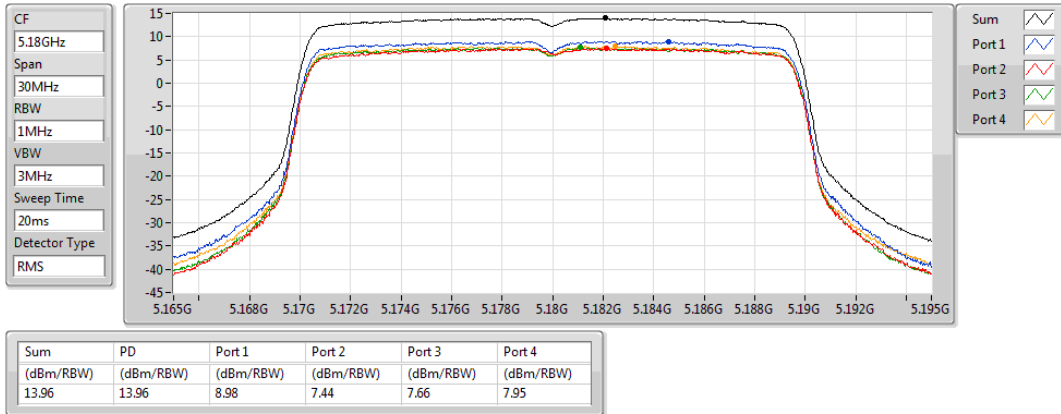


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5180MHz

13/06/2019

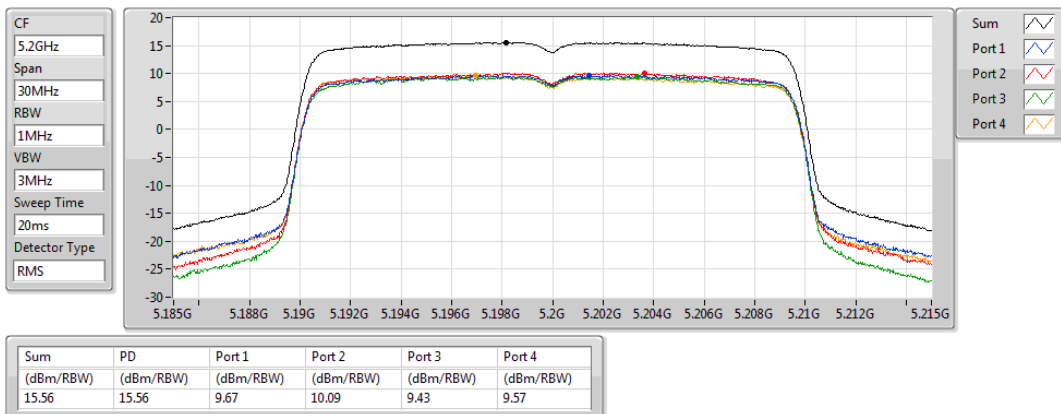


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5200MHz

13/06/2019

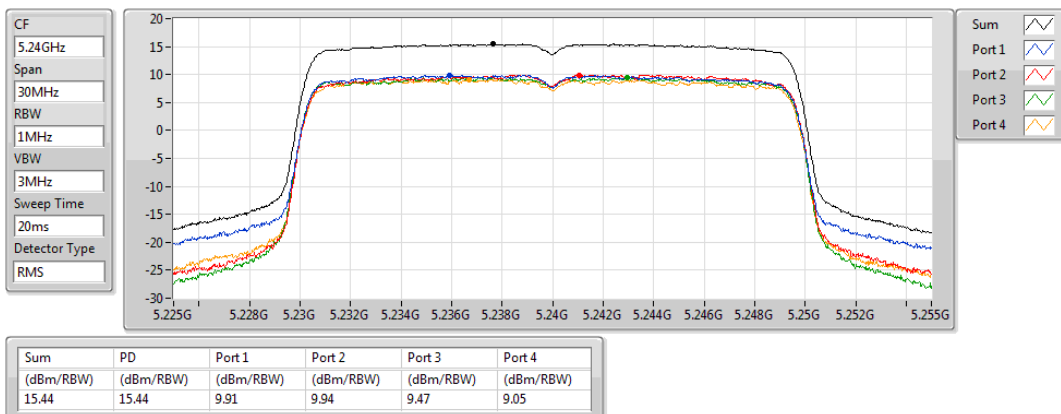


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5240MHz

13/06/2019

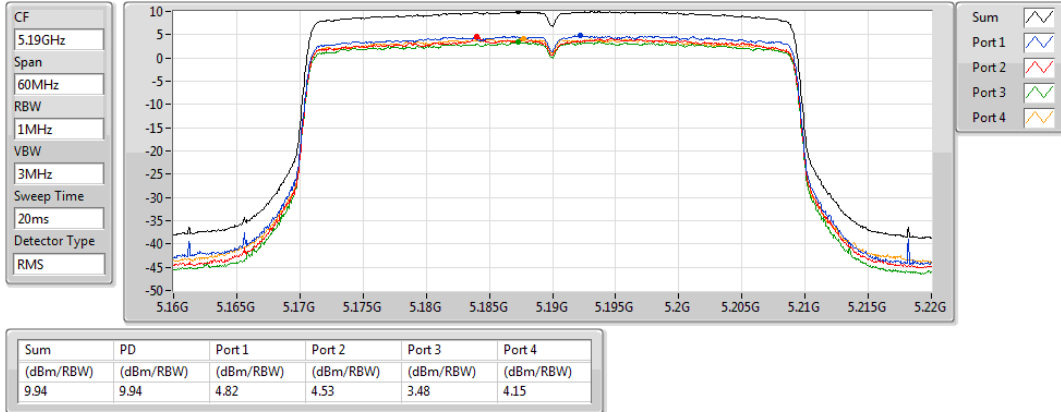


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5190MHz

13/06/2019

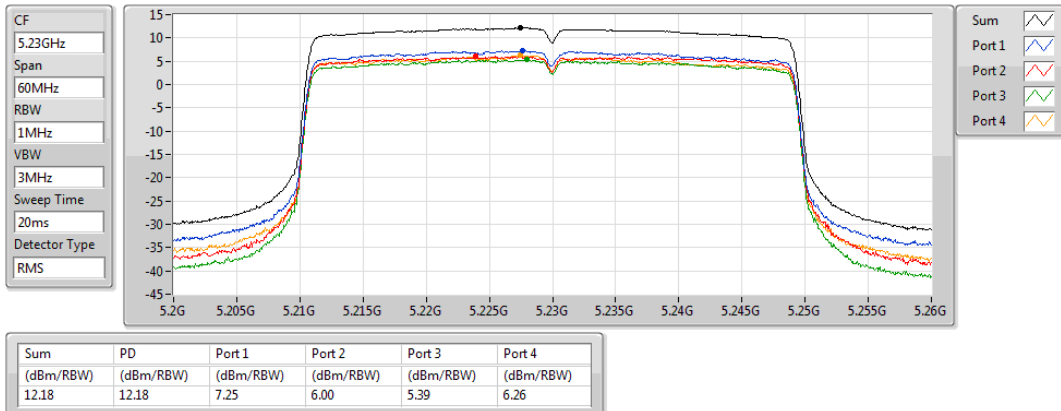


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5230MHz

13/06/2019

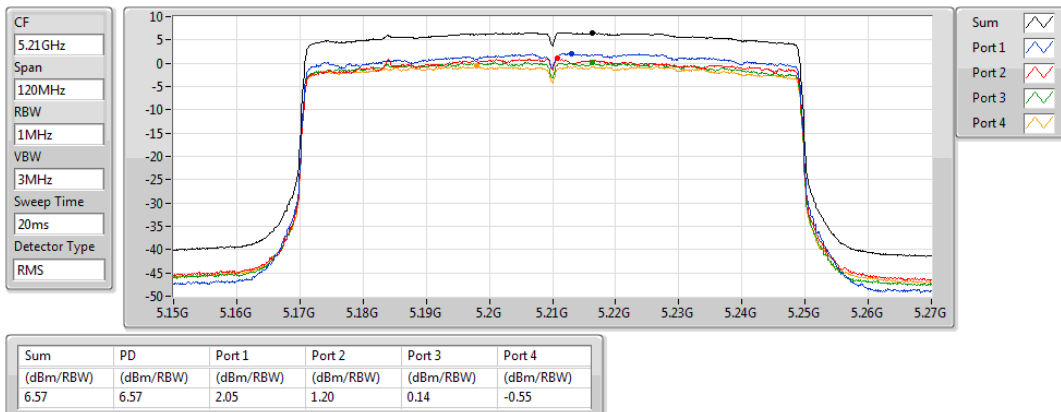


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5210MHz

13/06/2019





Summary

Mode	PD (dBm/RBW)
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	14.15
802.11ax HEW20_Nss1,(MCS0)_2TX	14.39
802.11ax HEW40_Nss1,(MCS0)_2TX	11.19
802.11ax HEW80_Nss1,(MCS0)_2TX	5.46
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	10.28
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	7.45
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	4.43

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5745MHz	Pass	2.96	11.11	11.04	13.85	30.00
5785MHz	Pass	2.96	11.12	11.19	14.15	30.00
5825MHz	Pass	2.96	10.79	11.02	13.66	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5745MHz	Pass	2.96	11.22	11.44	14.21	30.00
5785MHz	Pass	2.96	11.17	11.68	14.39	30.00
5825MHz	Pass	2.96	11.34	11	14.10	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5755MHz	Pass	2.96	7.07	7.62	10.24	30.00
5795MHz	Pass	2.96	8.59	7.95	11.19	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz	Pass	2.96	2.27	2.73	5.46	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5745MHz	Pass	2.96	7.45	7.87	10.28	30.00
5785MHz	Pass	2.96	6.98	6.30	9.53	30.00
5825MHz	Pass	2.96	6.20	5.48	8.77	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5755MHz	Pass	2.96	4.46	4.59	7.45	30.00
5795MHz	Pass	2.96	3.46	3.33	6.33	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5775MHz	Pass	2.96	1.46	1.49	4.43	30.00

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

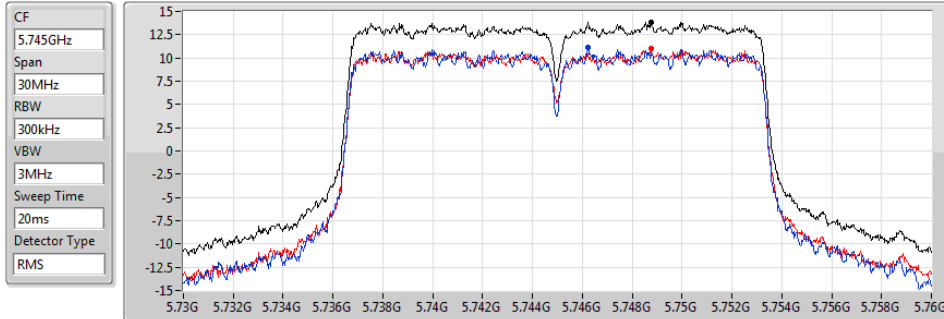
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

25/06/2019



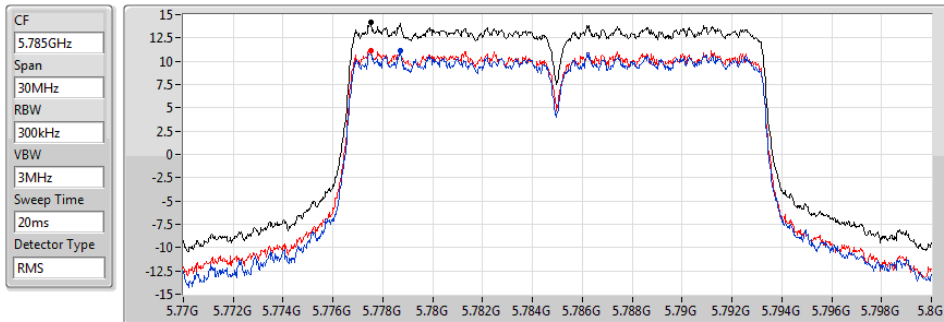
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.85	13.85	11.11	11.04

802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

25/06/2019



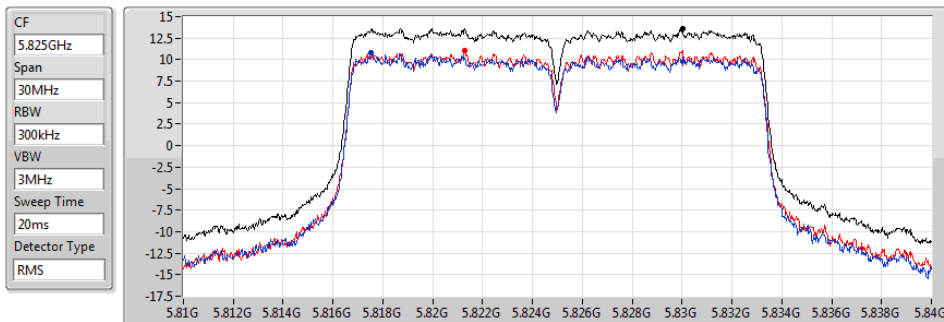
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.15	14.15	11.12	11.19

802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

25/06/2019



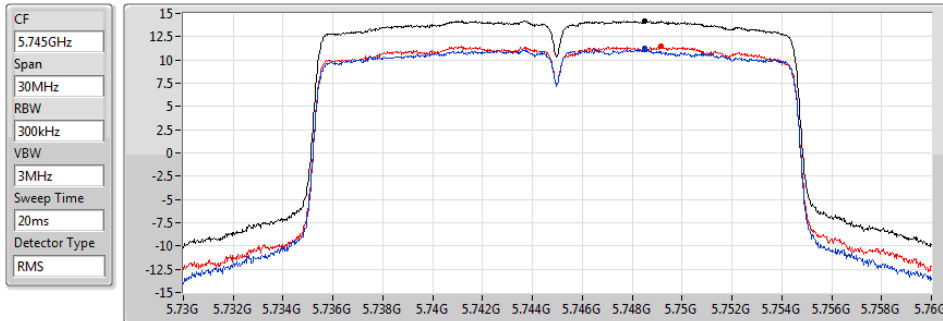
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.66	13.66	10.79	11.02

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5745MHz

25/06/2019



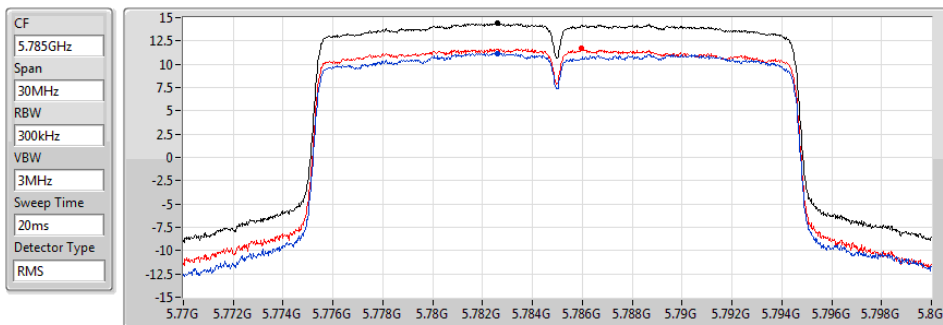
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.21	14.21	11.22	11.44

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5785MHz

25/06/2019



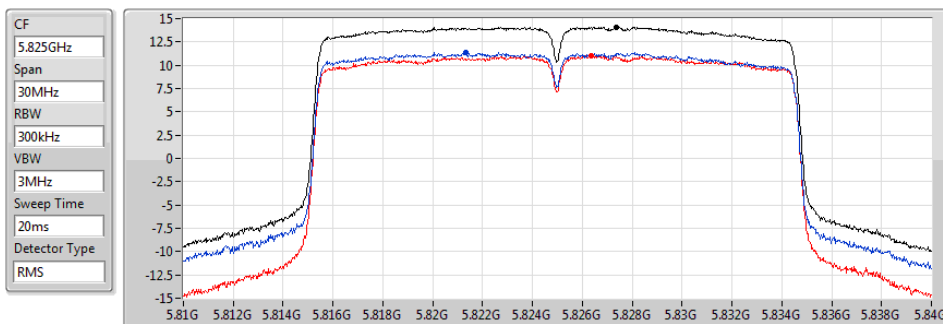
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.39	14.39	11.17	11.68

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5825MHz

25/06/2019



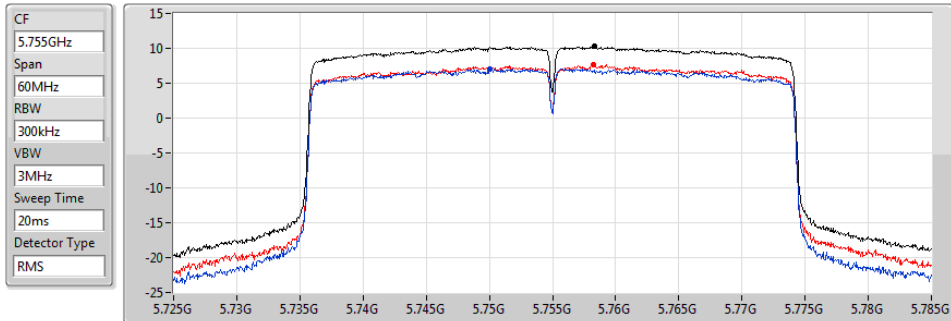
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.10	14.10	11.34	11.00

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5755MHz

25/06/2019



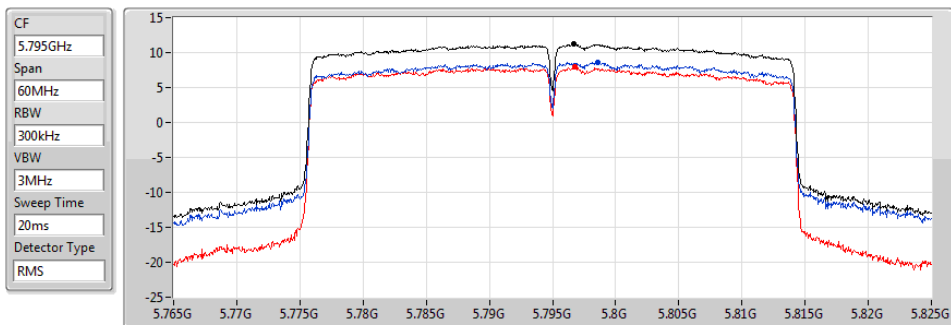
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.24	10.24	7.07	7.62

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5795MHz

25/06/2019



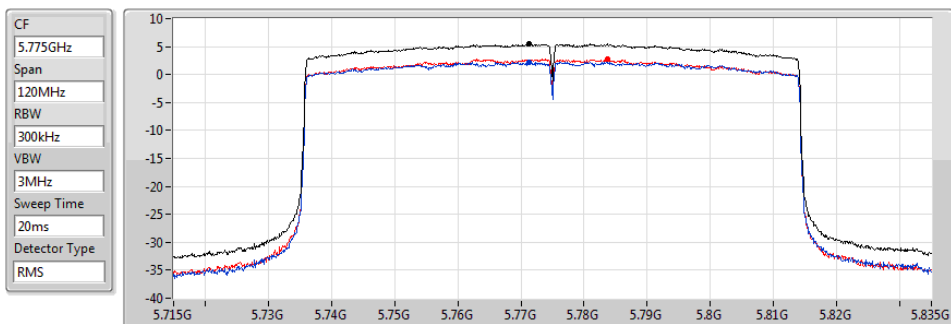
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.19	11.19	8.59	7.95

802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz

25/06/2019



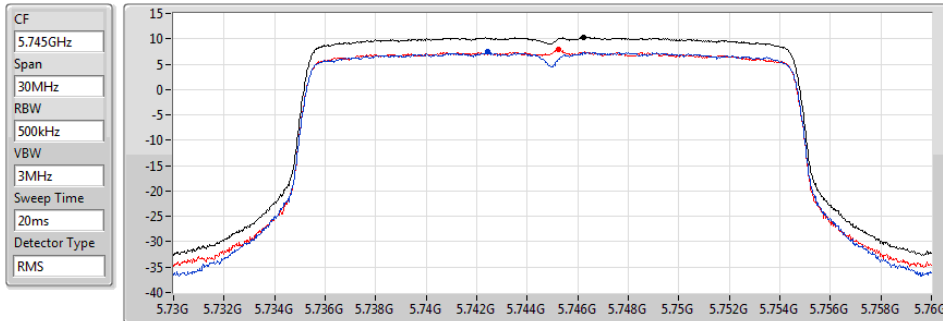
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.46	5.46	2.27	2.73

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5745MHz

29/06/2019



Sum
Port 1
Port 2

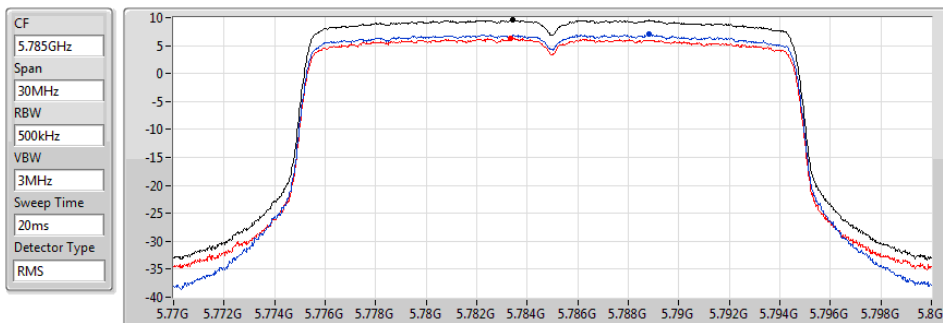
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.28	10.28	7.45	7.87

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5785MHz

29/06/2019



Sum
Port 1
Port 2

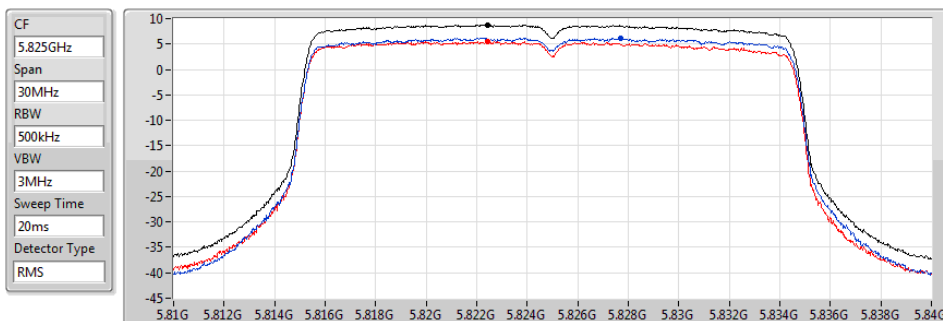
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.53	9.53	6.98	6.30

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5825MHz

29/06/2019



Sum
Port 1
Port 2

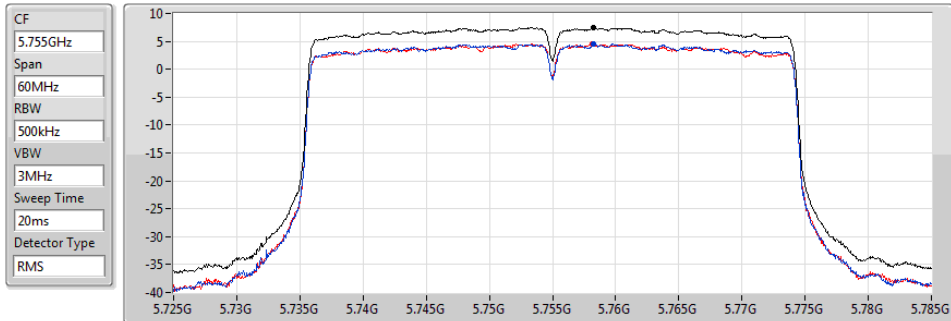
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.77	8.77	6.20	5.48

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5755MHz

29/06/2019



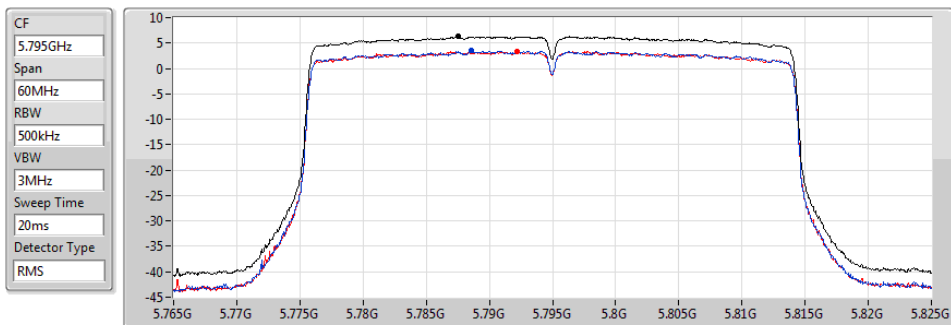
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.45	7.45	4.46	4.59

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5795MHz

29/06/2019



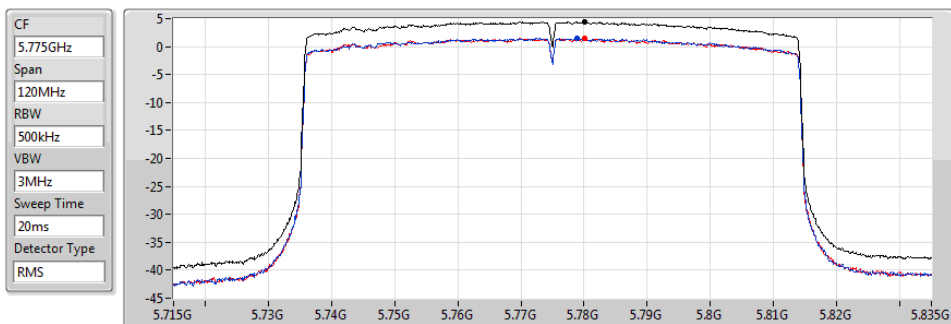
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.33	6.33	3.46	3.33

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

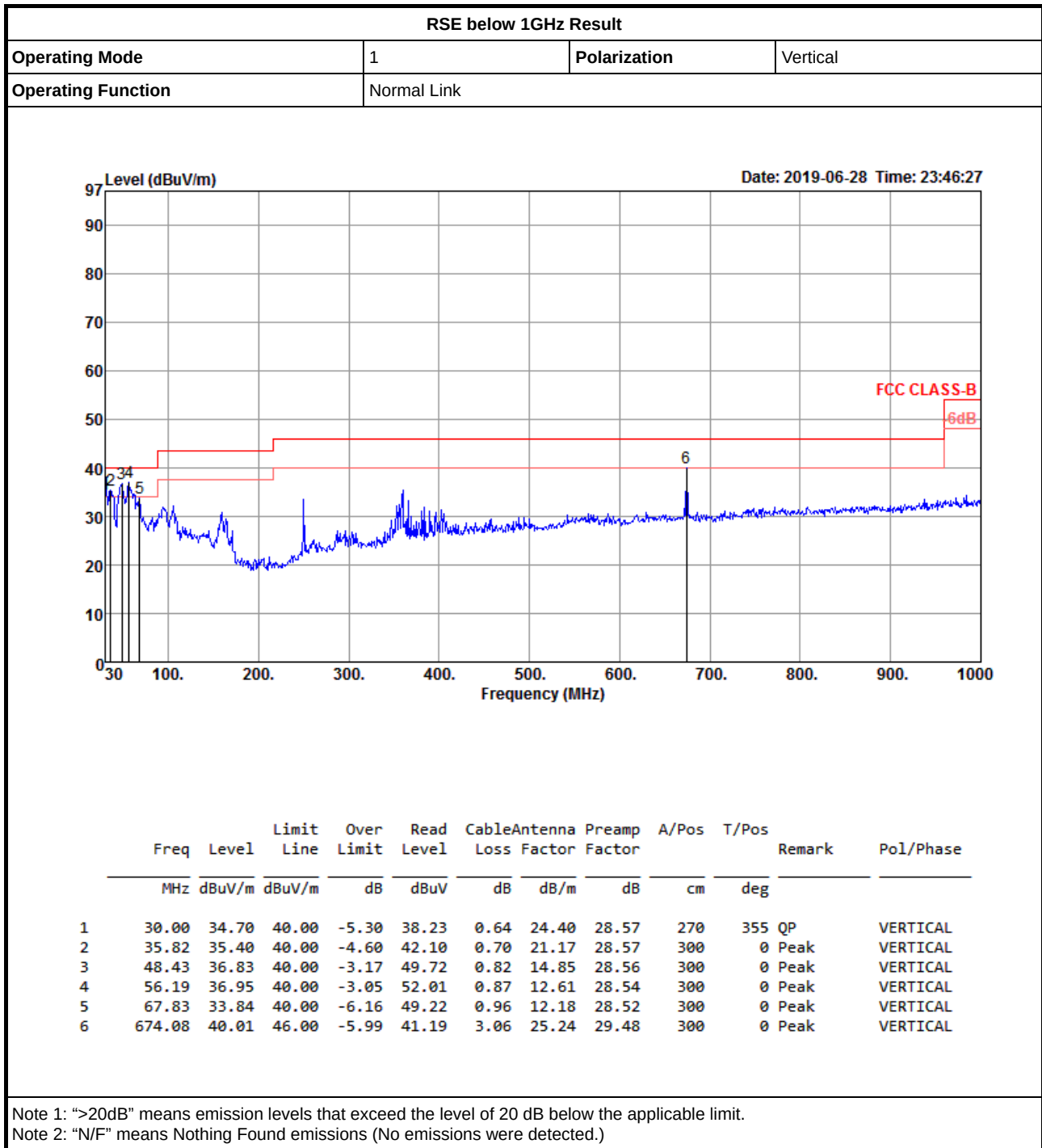
PSD

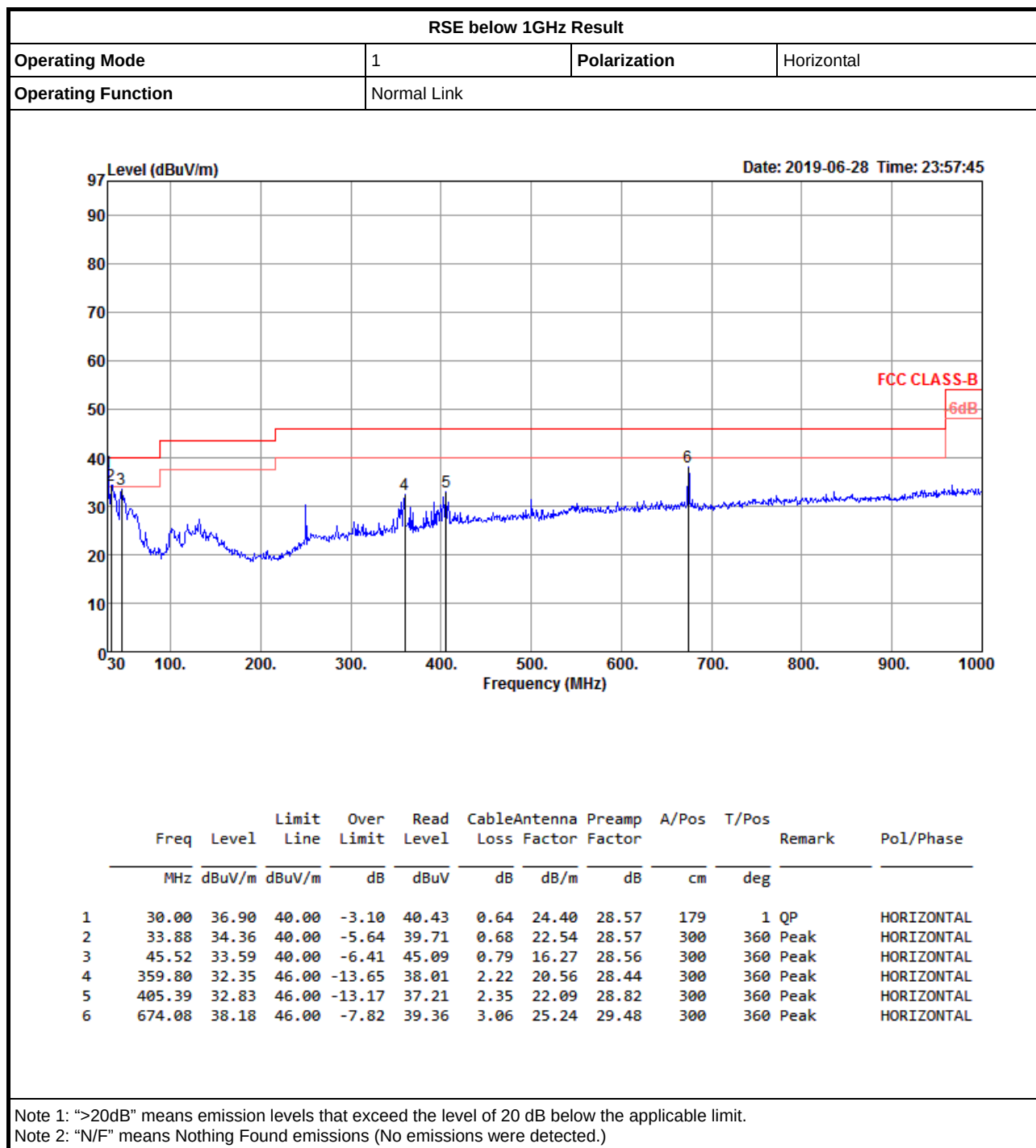
5775MHz

29/06/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.43	4.43	1.46	1.49







RSE TX above 1GHz Result

Appendix E.2

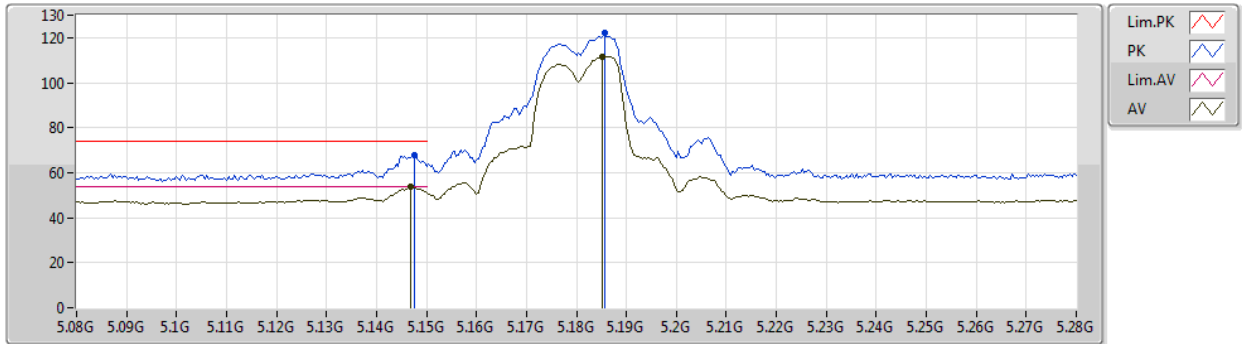
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	AV	5.15G	53.95	54.00	-0.05	7.94	3	Horizontal	284	1.59	-

802.11a_Nss1,(6Mbps)_4TX

01/06/2019

5180MHz_TX



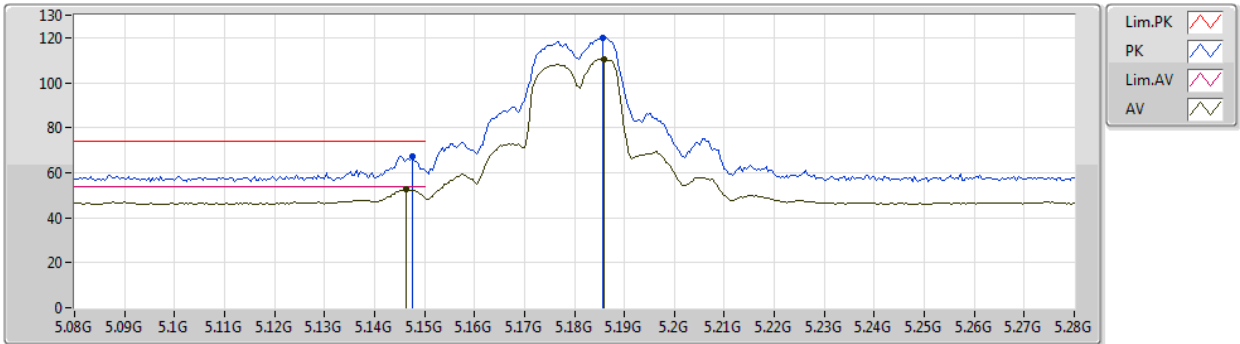
EUT_Z_4TX
Setting 23
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1476G	68.01	74.00	-5.99	7.94	3	Vertical	209	1.05	-				
AV	5.1468G	53.79	54.00	-0.21	7.94	3	Vertical	209	1.05	-				
PK	5.1856G	121.92	Inf	-Inf	8.03	3	Vertical	209	1.05	-				
AV	5.1852G	111.72	Inf	-Inf	8.03	3	Vertical	209	1.05	-				

802.11a_Nss1,(6Mbps)_4TX

01/06/2019

5180MHz_TX



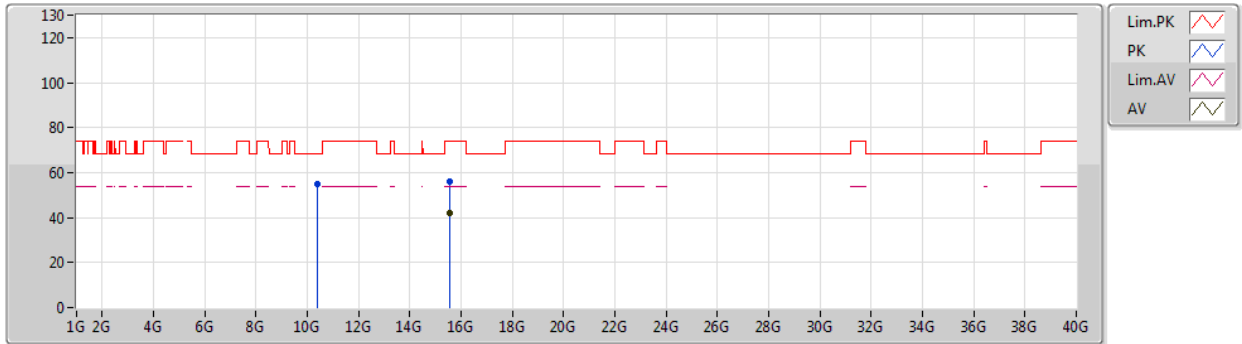
EUT_Z_4TX
Setting 23
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1476G	67.21	74.00	-6.79	7.94	3	Horizontal	236	1.58	-				
AV	5.1464G	52.78	54.00	-1.22	7.94	3	Horizontal	236	1.58	-				
PK	5.1856G	120.16	Inf	-Inf	8.03	3	Horizontal	236	1.58	-				
AV	5.186G	110.54	Inf	-Inf	8.03	3	Horizontal	236	1.58	-				

802.11a_Nss1,(6Mbps)_4TX

01/06/2019

5180MHz_TX



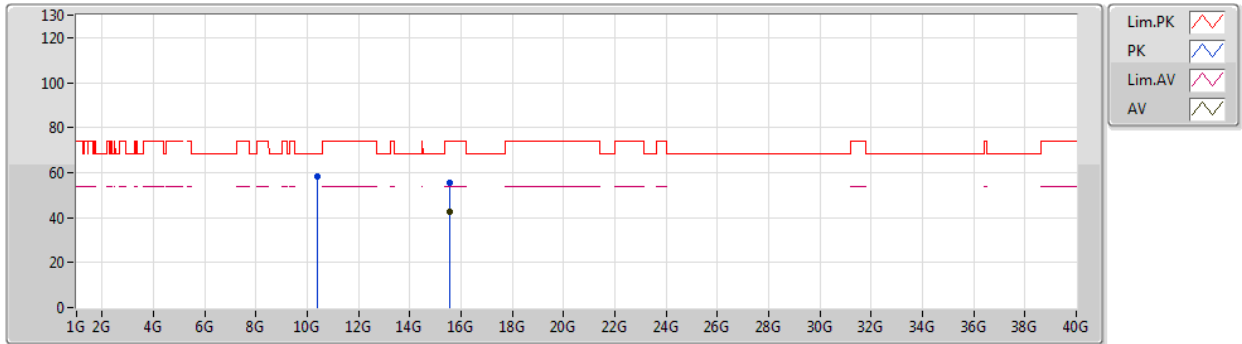
EUT_Z_4TX
Setting 23
02-N-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.3702G	54.73	68.20	-13.47	14.66	3	Vertical	136	1.95	-				
PK	15.53932G	55.90	74.00	-18.10	16.08	3	Vertical	138	1.48	-				
AV	15.53992G	42.09	54.00	-11.91	16.07	3	Vertical	138	1.48	-				

802.11a_Nss1,(6Mbps)_4TX

01/06/2019

5180MHz_TX



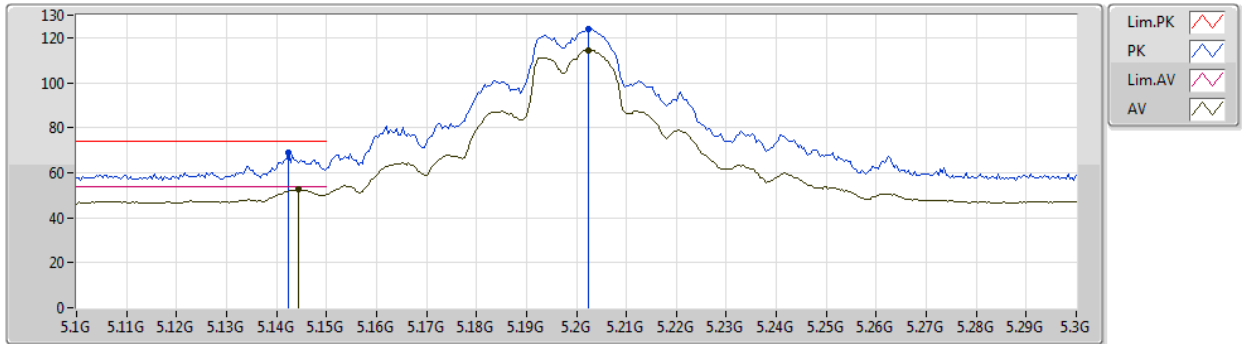
EUT_Z_4TX
Setting 23
02-N-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.37G	58.30	68.20	-9.90	14.66	3	Horizontal	115	2.10	-				
PK	15.54428G	55.31	74.00	-18.69	16.06	3	Horizontal	39	2.45	-				
AV	15.54176G	42.49	54.00	-11.51	16.07	3	Horizontal	39	2.45	-				

802.11a_Nss1,(6Mbps)_4TX

01/06/2019

5200MHz_TX



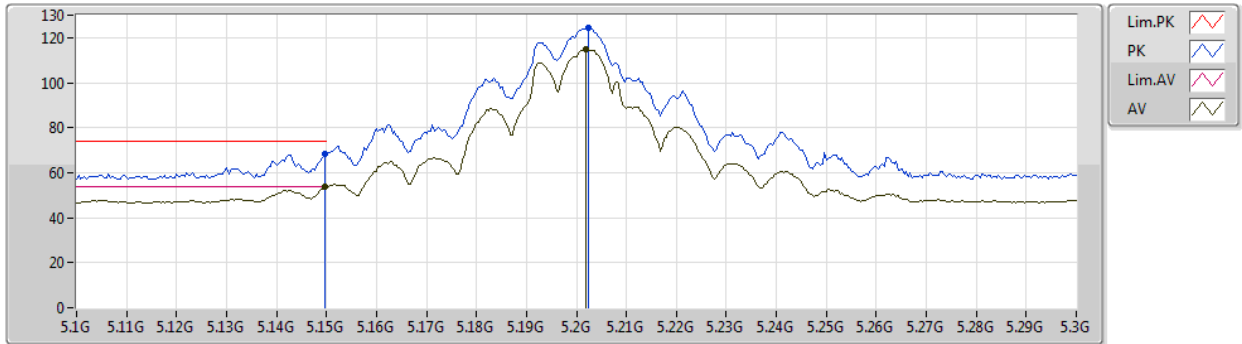
EUT_Z_4TX
Setting 27
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1424G	68.76	74.00	-5.24	7.94	3	Vertical	165	1.12	-				
AV	5.1444G	52.61	54.00	-1.39	7.94	3	Vertical	165	1.12	-				
PK	5.2024G	124.07	Inf	-Inf	8.06	3	Vertical	165	1.12	-				
AV	5.2024G	114.38	Inf	-Inf	8.06	3	Vertical	165	1.12	-				

802.11a_Nss1,(6Mbps)_4TX

01/06/2019

5200MHz_TX



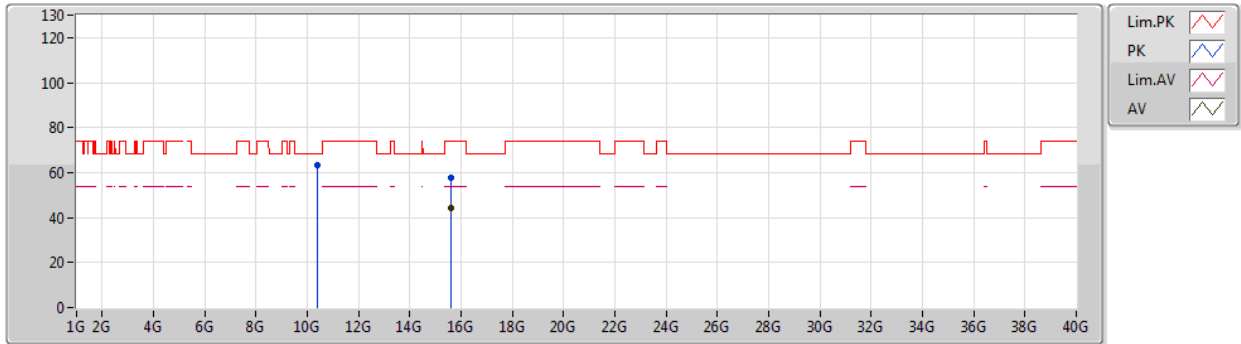
EUT_Z_4TX
Setting 27
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1496G	68.16	74.00	-5.84	7.94	3	Horizontal	217	1.50	-				
AV	5.1496G	53.87	54.00	-0.13	7.94	3	Horizontal	217	1.50	-				
PK	5.2024G	124.33	Inf	-Inf	8.06	3	Horizontal	217	1.50	-				
AV	5.202G	114.69	Inf	-Inf	8.06	3	Horizontal	217	1.50	-				

802.11a_Nss1,(6Mbps)_4TX

01/06/2019

5200MHz_TX



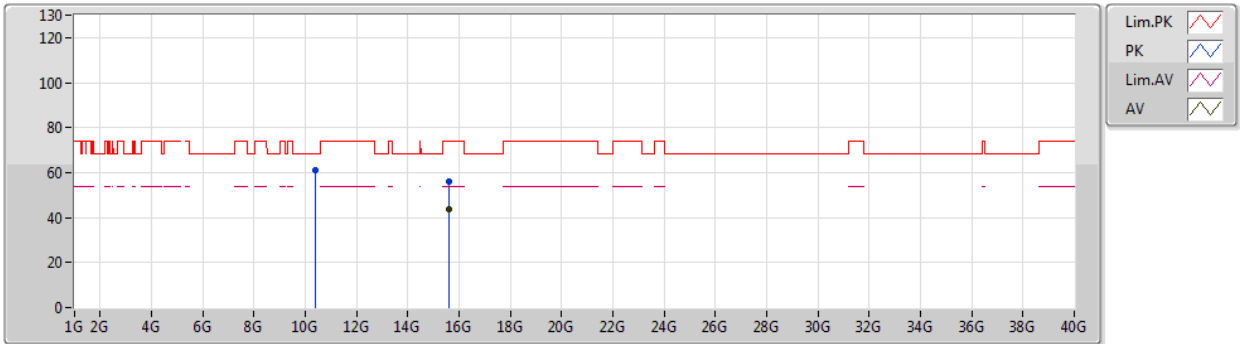
EUT_Z_4TX
Setting 27
02-N-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.4072G	63.15	68.20	-5.05	14.63	3	Vertical	86	2.02	-				
PK	15.5994G	57.64	74.00	-16.36	15.91	3	Vertical	164	1.79	-				
AV	15.5983G	44.37	54.00	-9.63	15.91	3	Vertical	164	1.79	-				

802.11a_Nss1,(6Mbps)_4TX

01/06/2019

5200MHz_TX



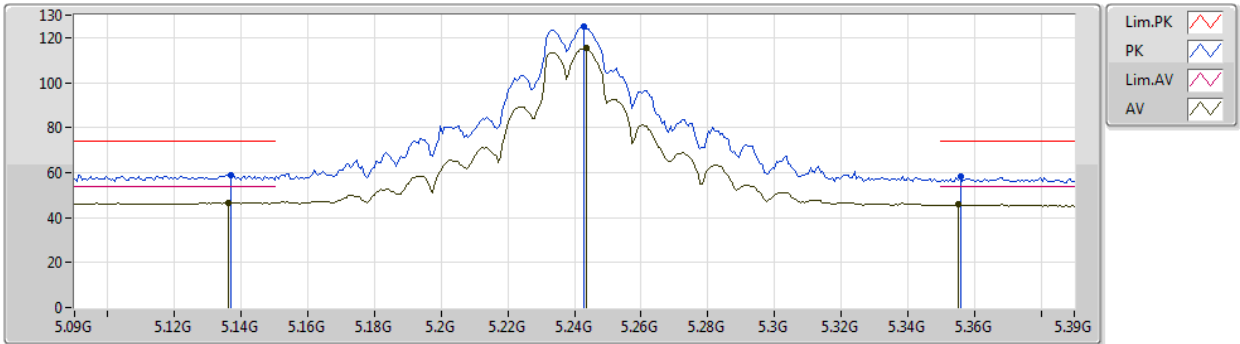
EUT_Z_4TX
Setting 27
02-N-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.4003G	61.30	68.20	-6.90	14.64	3	Horizontal	65	3.00	-				
PK	15.5947G	55.77	74.00	-18.23	15.93	3	Horizontal	161	2.57	-				
AV	15.5954G	43.43	54.00	-10.57	15.92	3	Horizontal	161	2.57	-				

802.11a_Nss1,(6Mbps)_4TX

01/06/2019

5240MHz_TX



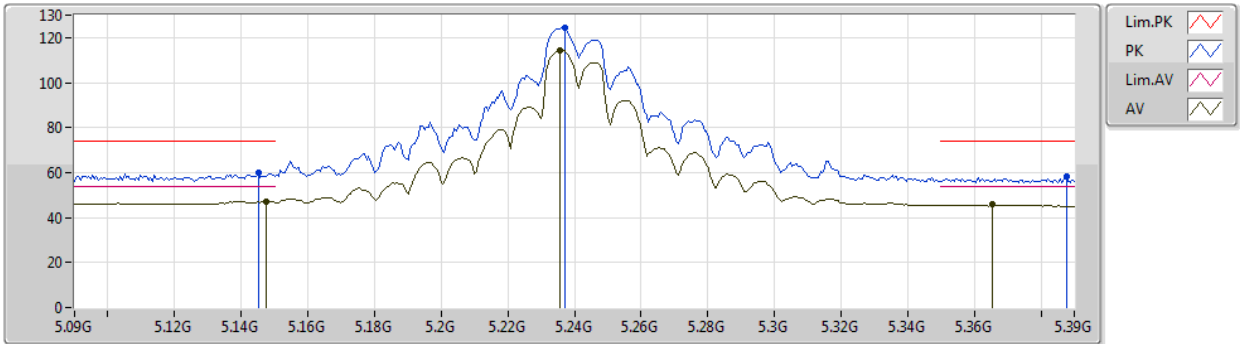
EUT_Z_4TX
Setting 31
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1368G	58.92	74.00	-15.08	7.92	3	Vertical	155	1.35	-				
AV	5.1362G	46.74	54.00	-7.26	7.92	3	Vertical	155	1.35	-				
PK	5.243G	124.97	Inf	-Inf	8.12	3	Vertical	155	1.35	-				
AV	5.2436G	115.27	Inf	-Inf	8.12	3	Vertical	155	1.35	-				
PK	5.3558G	58.23	74.00	-15.77	8.28	3	Vertical	155	1.35	-				
AV	5.3552G	45.69	54.00	-8.31	8.28	3	Vertical	155	1.35	-				

802.11a_Nss1,(6Mbps)_4TX

01/06/2019

5240MHz_TX



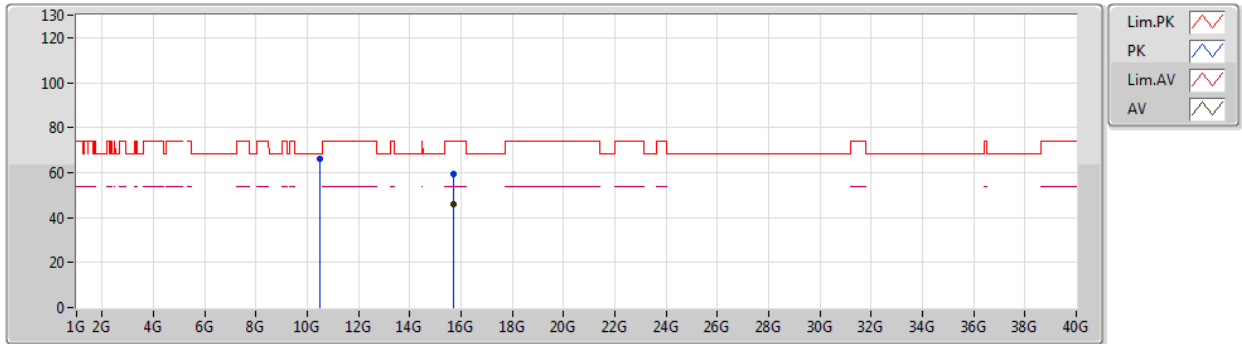
EUT_Z_4TX
Setting 31
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1452G	59.69	74.00	-14.31	7.94	3	Horizontal	210	1.50	-
AV	5.1476G	47.12	54.00	-6.88	7.94	3	Horizontal	210	1.50	-
PK	5.237G	124.21	Inf	-Inf	8.11	3	Horizontal	210	1.50	-
AV	5.2358G	114.23	Inf	-Inf	8.11	3	Horizontal	210	1.50	-
PK	5.3876G	58.16	74.00	-15.84	8.33	3	Horizontal	210	1.50	-
AV	5.3654G	45.75	54.00	-8.25	8.29	3	Horizontal	210	1.50	-

802.11a_Nss1,(6Mbps)_4TX

01/06/2019

5240MHz_TX



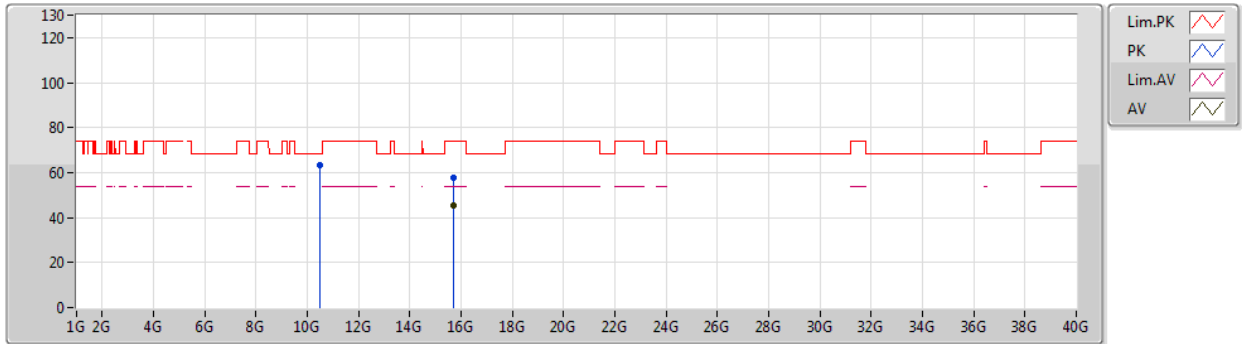
EUT_Z_4TX
Setting 31
02-N-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.4864G	65.86	68.20	-2.34	14.59	3	Vertical	38	2.00	-				
PK	15.72024G	59.67	74.00	-14.33	15.60	3	Vertical	30	1.88	-				
AV	15.72204G	45.68	54.00	-8.32	15.60	3	Vertical	30	1.88	-				

802.11a_Nss1,(6Mbps)_4TX

01/06/2019

5240MHz_TX



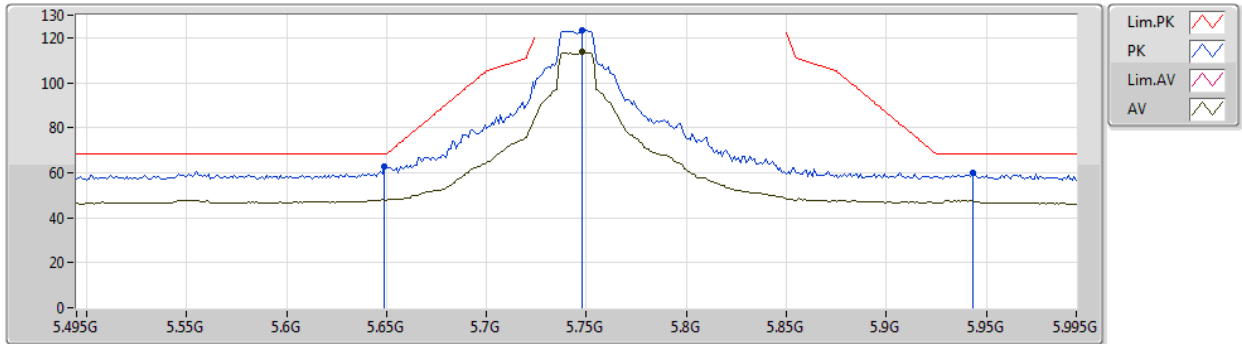
EUT_Z_4TX
Setting 31
02-N-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.4902G	63.06	68.20	-5.14	14.59	3	Horizontal	54	2.11	-				
PK	15.7172G	57.95	74.00	-16.05	15.61	3	Horizontal	109	2.10	-				
AV	15.7166G	45.29	54.00	-8.71	15.61	3	Horizontal	109	2.10	-				

802.11a_Nss1,(6Mbps)_2TX

20/06/2019

5745MHz_TX



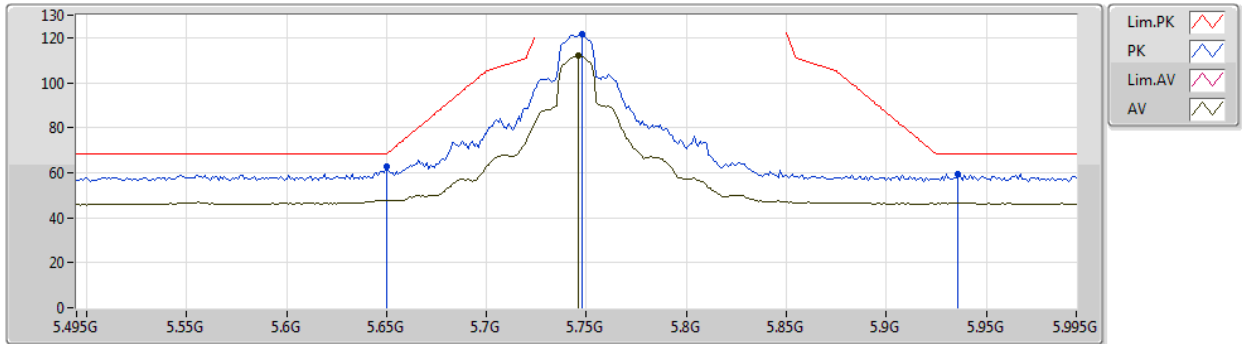
EUT_Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.649G	63.02	68.20	-5.18	8.67	3	Vertical	3	1.69	-				
PK	5.748G	123.51	Inf	-Inf	8.82	3	Vertical	3	1.69	-				
AV	5.748G	113.60	Inf	-Inf	8.82	3	Vertical	3	1.69	-				
PK	5.943G	59.99	68.20	-8.21	8.94	3	Vertical	3	1.69	-				

802.11a_Nss1,(6Mbps)_2TX

20/06/2019

5745MHz_TX



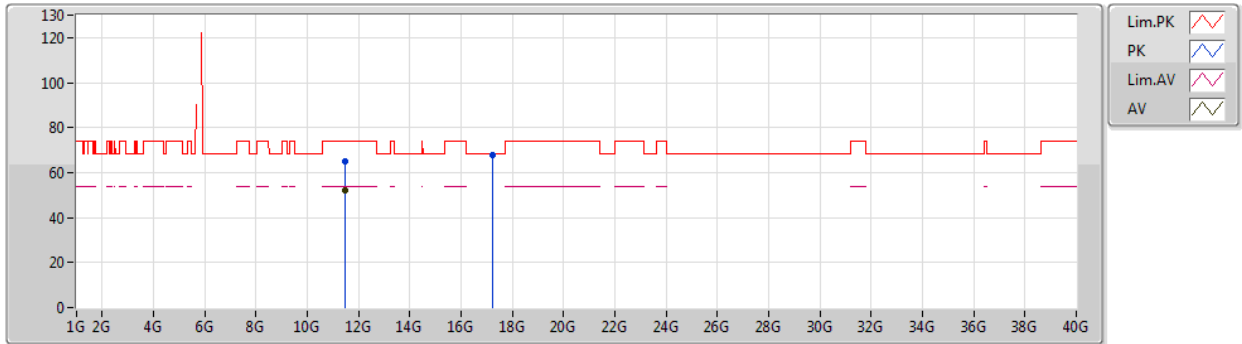
EUT_Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.65G	62.92	68.20	-5.28	8.66	3	Horizontal	163	1.65	-
PK	5.748G	121.68	Inf	-Inf	8.82	3	Horizontal	163	1.65	-
AV	5.746G	111.91	Inf	-Inf	8.82	3	Horizontal	163	1.65	-
PK	5.936G	59.51	68.20	-8.69	8.93	3	Horizontal	163	1.65	-

802.11a_Nss1,(6Mbps)_2TX

20/06/2019

5745MHz_TX



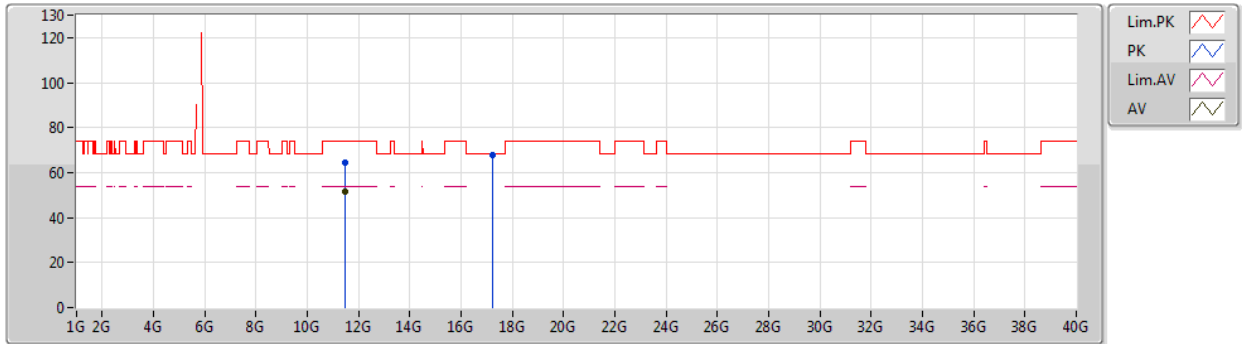
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.48704G	65.13	74.00	-8.87	14.89	3	Vertical	168	2.65	-				
AV	11.48808G	52.26	54.00	-1.74	14.89	3	Vertical	168	2.65	-				
PK	17.23924G	67.71	68.20	-0.49	20.74	3	Vertical	157	2.98	-				

802.11a_Nss1,(6Mbps)_2TX

20/06/2019

5745MHz_TX



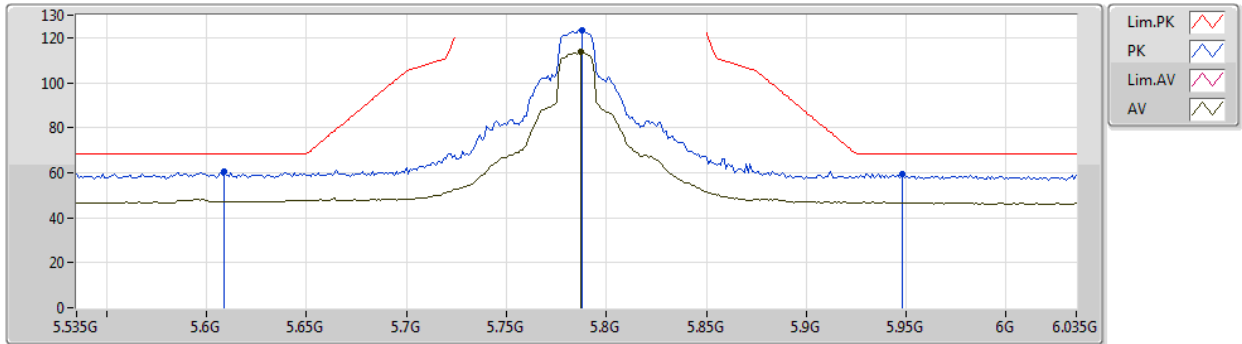
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.492G	64.28	74.00	-9.72	14.89	3	Horizontal	127	1.35	-				
AV	11.49192G	51.72	54.00	-2.28	14.89	3	Horizontal	127	1.35	-				
PK	17.23508G	67.74	68.20	-0.46	20.72	3	Horizontal	216	2.29	-				

802.11a_Nss1,(6Mbps)_2TX

21/06/2019

5785MHz_TX



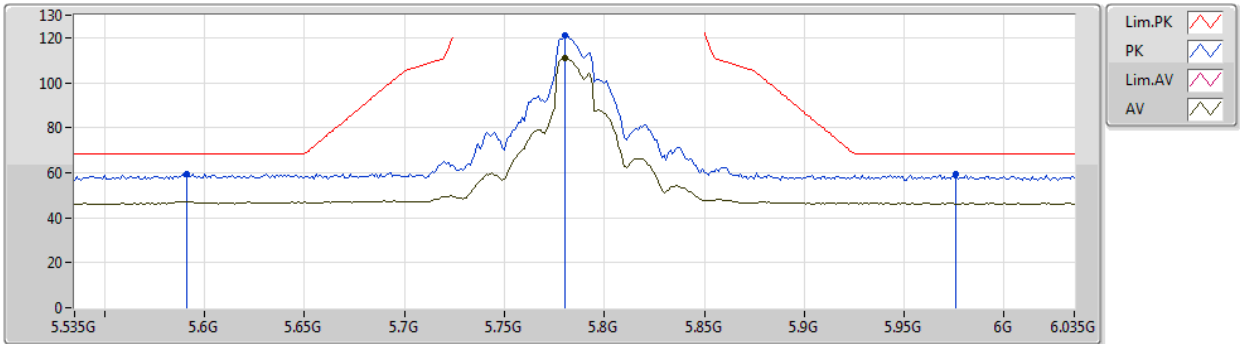
EUT Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.609G	60.31	68.20	-7.89	8.60	3	Vertical	13	1.54	-				
PK	5.788G	123.38	Inf	-Inf	8.87	3	Vertical	13	1.54	-				
AV	5.787G	113.62	Inf	-Inf	8.88	3	Vertical	13	1.54	-				
PK	5.948G	59.66	68.20	-8.54	8.94	3	Vertical	13	1.54	-				

802.11a_Nss1,(6Mbps)_2TX

21/06/2019

5785MHz_TX



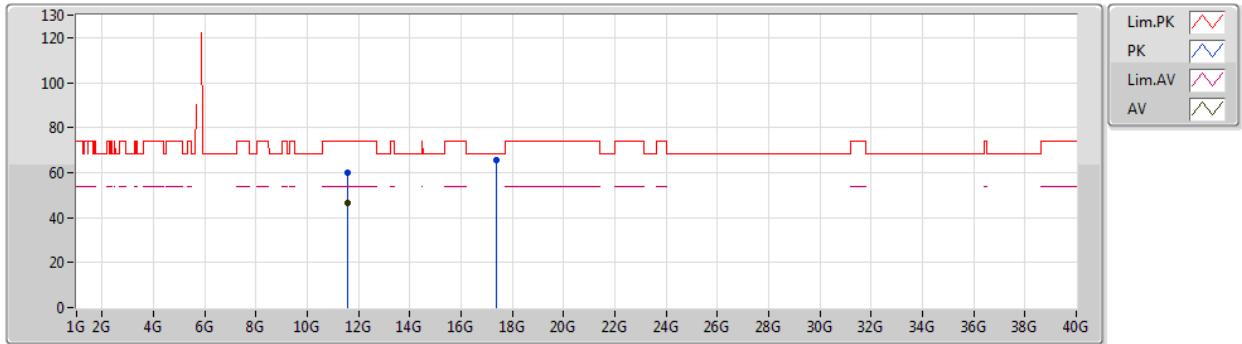
EUT_Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.591G	59.67	68.20	-8.53	8.57	3	Horizontal	150	2.29	-				
PK	5.78G	121.03	Inf	-Inf	8.87	3	Horizontal	150	2.29	-				
AV	5.78G	110.68	Inf	-Inf	8.87	3	Horizontal	150	2.29	-				
PK	5.976G	59.13	68.20	-9.07	8.94	3	Horizontal	150	2.29	-				

802.11a_Nss1,(6Mbps)_2TX

21/06/2019

5785MHz_TX



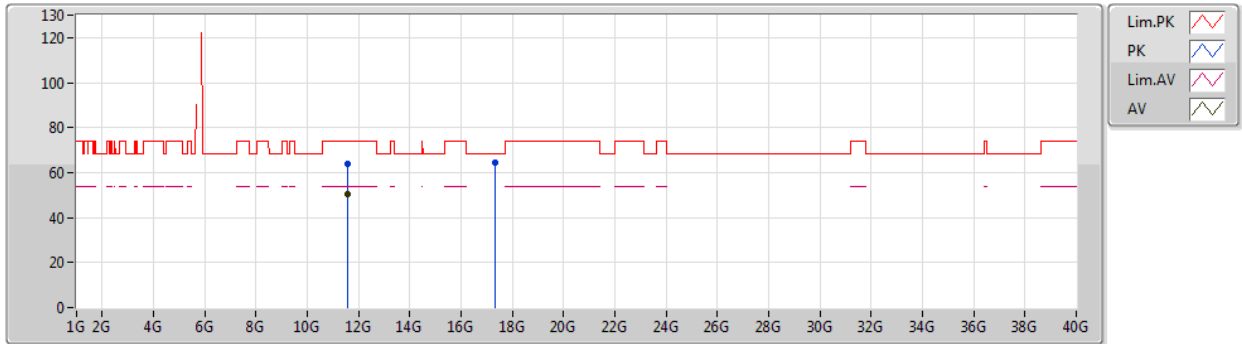
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.57056G	59.81	74.00	-14.19	15.00	3	Vertical	187	1.46	-				
AV	11.56976G	46.67	54.00	-7.33	15.00	3	Vertical	187	1.46	-				
PK	17.35364G	65.33	68.20	-2.87	21.41	3	Vertical	157	2.98	-				

802.11a_Nss1,(6Mbps)_2TX

21/06/2019

5785MHz_TX



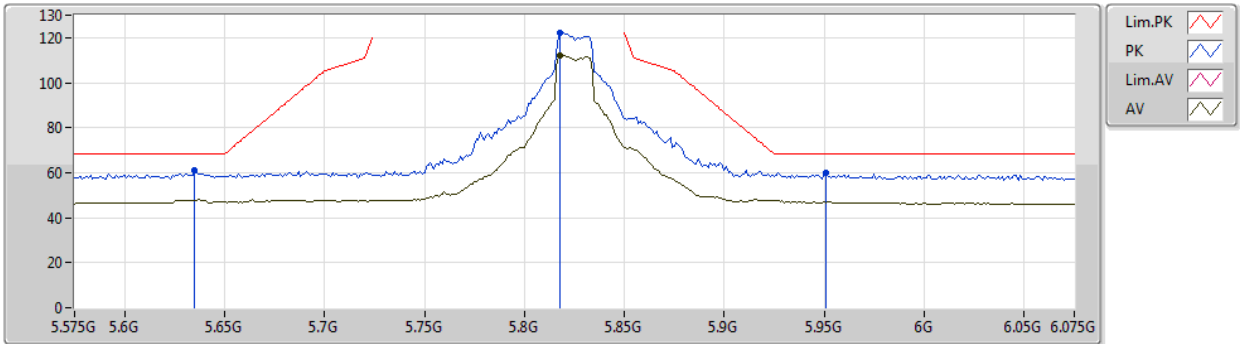
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.57256G	63.79	74.00	-10.21	15.00	3	Horizontal	106	1.28	-				
AV	11.57008G	50.36	54.00	-3.64	15.00	3	Horizontal	106	1.28	-				
PK	17.3498G	64.43	68.20	-3.77	21.39	3	Horizontal	108	1.45	-				

802.11a_Nss1,(6Mbps)_2TX

21/06/2019

5825MHz_TX



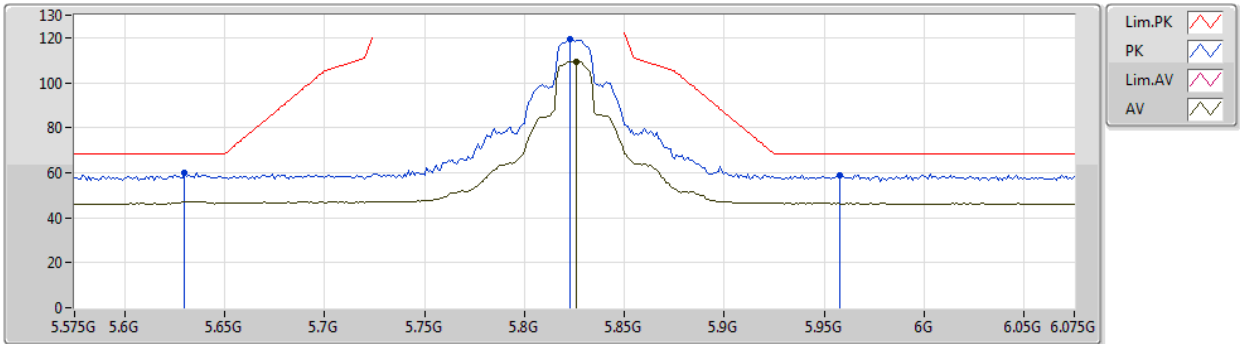
EUT_Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.635G	60.84	68.20	-7.36	8.64	3	Vertical	10	1.48	-				
PK	5.818G	122.14	Inf	-Inf	8.90	3	Vertical	10	1.48	-				
AV	5.818G	112.30	Inf	-Inf	8.90	3	Vertical	10	1.48	-				
PK	5.951G	60.03	68.20	-8.17	8.92	3	Vertical	10	1.48	-				

802.11a_Nss1,(6Mbps)_2TX

21/06/2019

5825MHz_TX



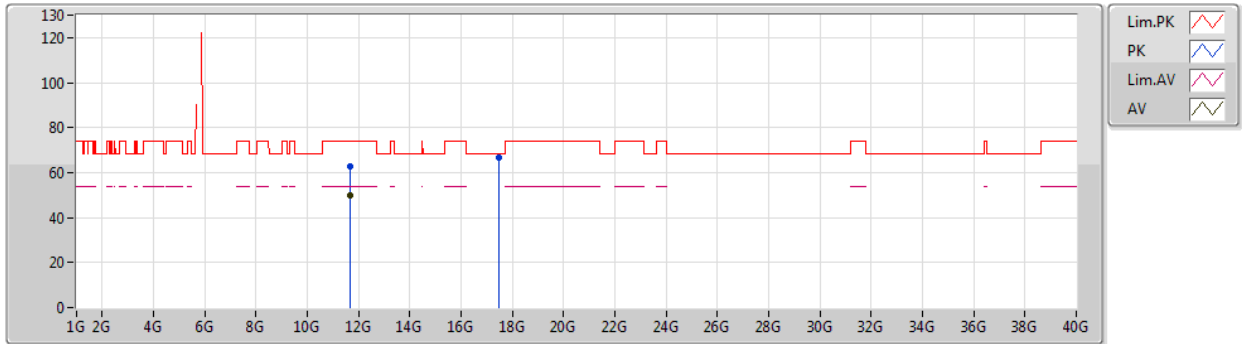
EUT Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.63G	60.00	68.20	-8.20	8.63	3	Horizontal	170	1.98	-
PK	5.823G	119.14	Inf	-Inf	8.90	3	Horizontal	170	1.98	-
AV	5.826G	109.49	Inf	-Inf	8.91	3	Horizontal	170	1.98	-
PK	5.958G	58.96	68.20	-9.24	8.92	3	Horizontal	170	1.98	-

802.11a_Nss1,(6Mbps)_2TX

21/06/2019

5825MHz_TX



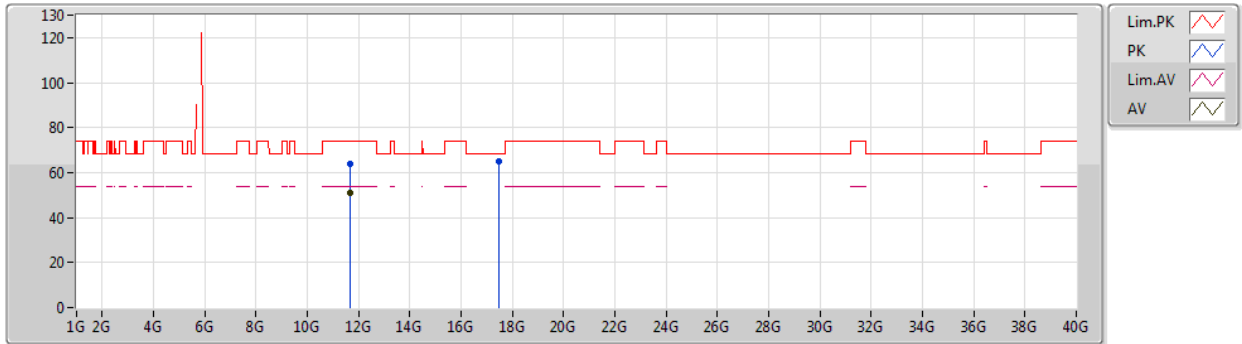
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.6504G	63.03	74.00	-10.97	15.09	3	Vertical	177	2.27	-				
AV	11.65G	49.65	54.00	-4.35	15.09	3	Vertical	177	2.27	-				
PK	17.47756G	66.41	68.20	-1.79	22.15	3	Vertical	176	2.54	-				

802.11a_Nss1,(6Mbps)_2TX

21/06/2019

5825MHz_TX



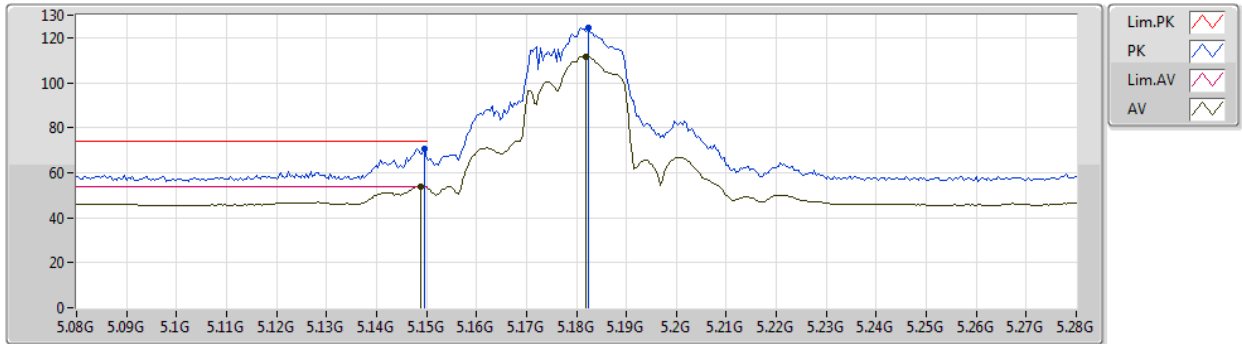
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.65056G	63.96	74.00	-10.04	15.09	3	Horizontal	107	1.33	-				
AV	11.64992G	50.78	54.00	-3.22	15.09	3	Horizontal	107	1.33	-				
PK	17.47604G	64.77	68.20	-3.43	22.14	3	Horizontal	210	2.37	-				

802.11ax HEW20_Nss1,(MCS0)_4TX

01/06/2019

5180MHz_TX



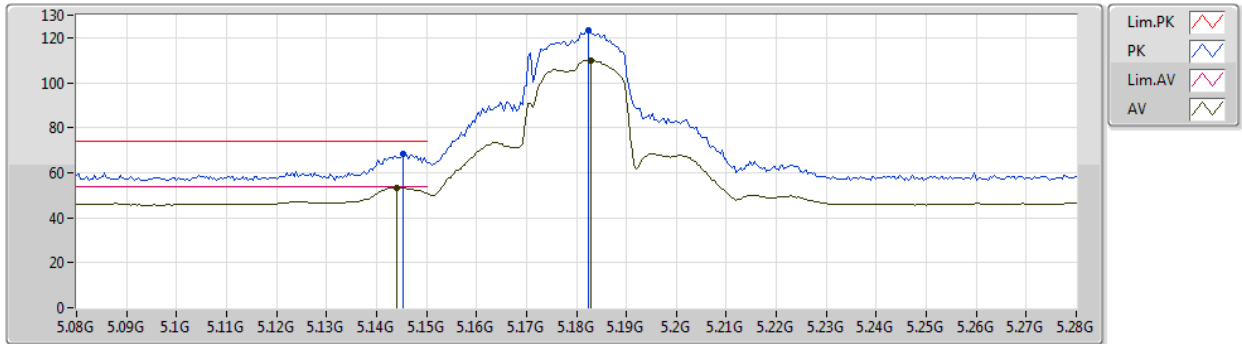
EUT_Z_4TX
Setting 23
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1496G	70.71	74.00	-3.29	7.94	3	Vertical	147	2.51	-				
AV	5.1488G	53.94	54.00	-0.06	7.94	3	Vertical	147	2.51	-				
PK	5.1824G	124.44	Inf	-Inf	8.02	3	Vertical	147	2.51	-				
AV	5.182G	111.48	Inf	-Inf	8.02	3	Vertical	147	2.51	-				

802.11ax HEW20_Nss1,(MCS0)_4TX

01/06/2019

5180MHz_TX



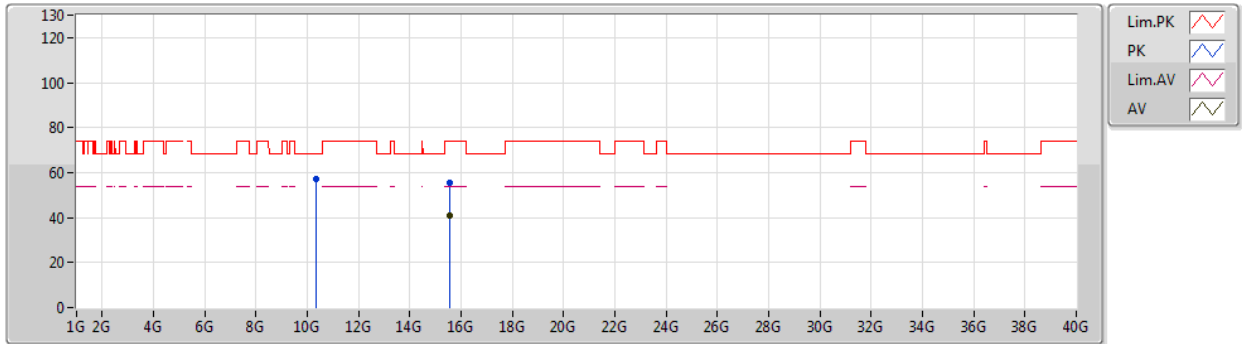
EUT_Z_4TX
Setting 23
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1452G	68.17	74.00	-5.83	7.94	3	Horizontal	195	1.69	-				
AV	5.144G	53.39	54.00	-0.61	7.94	3	Horizontal	195	1.69	-				
PK	5.1824G	123.54	Inf	-Inf	8.02	3	Horizontal	195	1.69	-				
AV	5.1828G	110.08	Inf	-Inf	8.02	3	Horizontal	195	1.69	-				

802.11ax HEW20_Nss1,(MCS0)_4TX

01/06/2019

5180MHz_TX



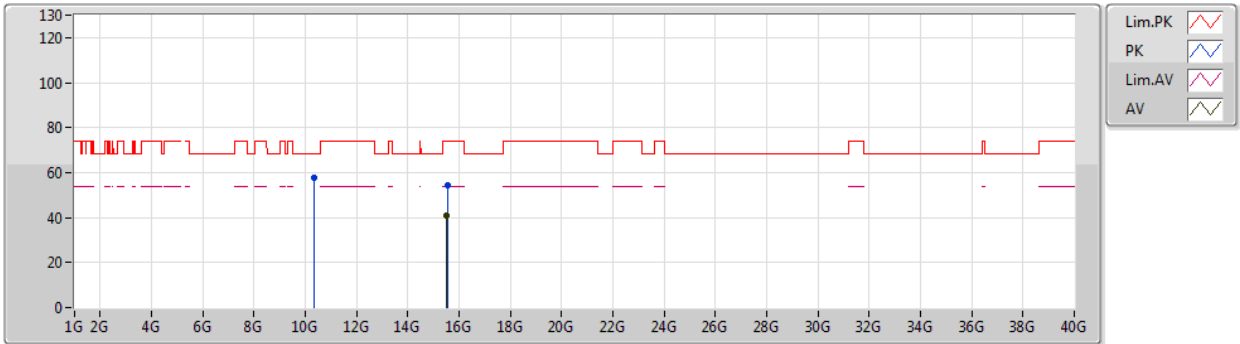
EUT_Z_4TX
Setting 23
02-G-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.35408G	57.07	68.20	-11.13	14.67	3	Vertical	149	2.66	-				
PK	15.54822G	55.38	74.00	-18.62	16.05	3	Vertical	170	1.76	-				
AV	15.5388G	41.14	54.00	-12.86	16.08	3	Vertical	170	1.76	-				

802.11ax HEW20_Nss1,(MCS0)_4TX

01/06/2019

5180MHz_TX



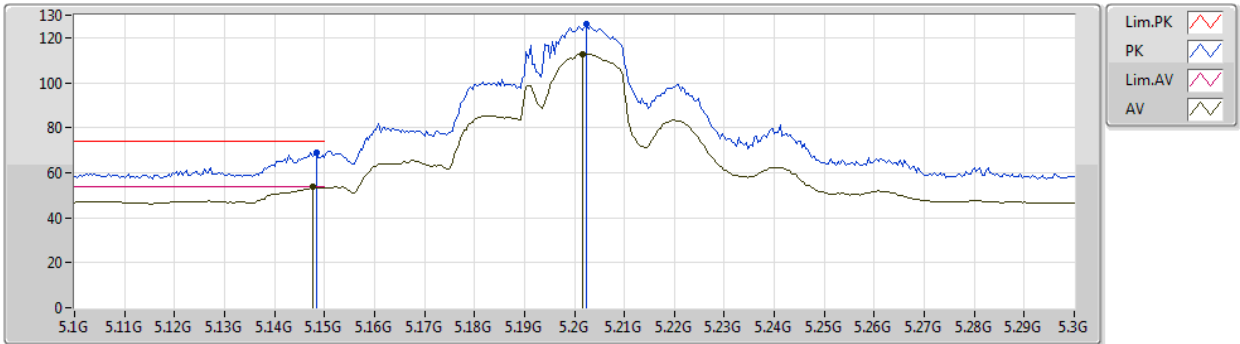
EUT_Z_4TX
Setting 23
02-G-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.35556G	57.64	68.20	-10.56	14.67	3	Horizontal	123	2.32	-				
PK	15.53864G	54.42	74.00	-19.58	16.08	3	Horizontal	67	2.06	-				
AV	15.53112G	40.68	54.00	-13.32	16.10	3	Horizontal	67	2.06	-				

802.11ax HEW20_Nss1,(MCS0)_4TX

01/06/2019

5200MHz_TX



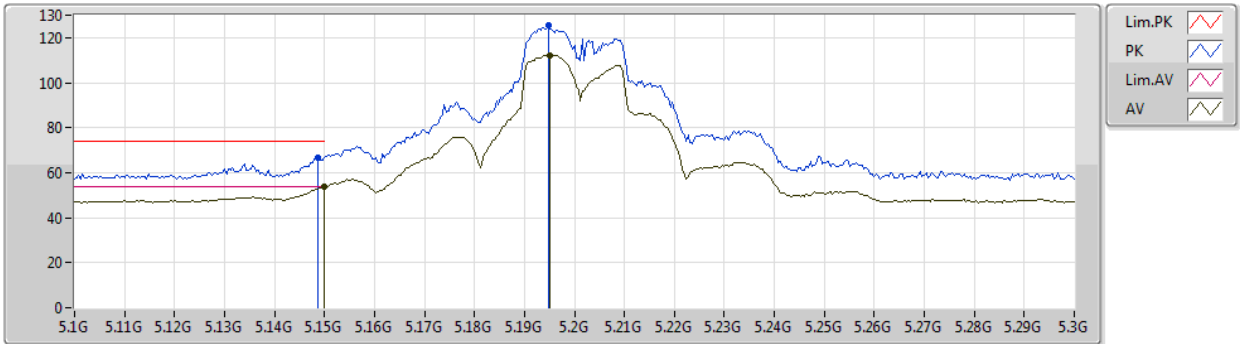
EUT_Z_4TX
Setting 26
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1484G	68.89	74.00	-5.11	7.94	3	Vertical	151	1.69	-				
AV	5.1476G	53.55	54.00	-0.45	7.94	3	Vertical	151	1.69	-				
PK	5.2024G	125.83	Inf	-Inf	8.06	3	Vertical	151	1.69	-				
AV	5.2016G	112.85	Inf	-Inf	8.06	3	Vertical	151	1.69	-				

802.11ax HEW20_Nss1,(MCS0)_4TX

01/06/2019

5200MHz_TX



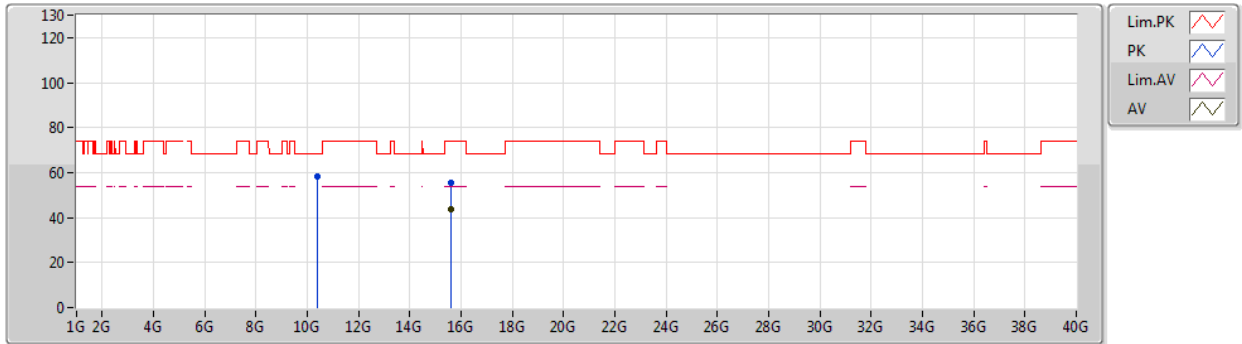
EUT_Z_4TX
Setting 26
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1488G	66.69	74.00	-7.31	7.94	3	Horizontal	186	1.49	-				
AV	5.15G	53.87	54.00	-0.13	7.94	3	Horizontal	186	1.49	-				
PK	5.1948G	125.52	Inf	-Inf	8.05	3	Horizontal	186	1.49	-				
AV	5.1952G	112.23	Inf	-Inf	8.05	3	Horizontal	186	1.49	-				

802.11ax HEW20_Nss1,(MCS0)_4TX

01/06/2019

5200MHz_TX



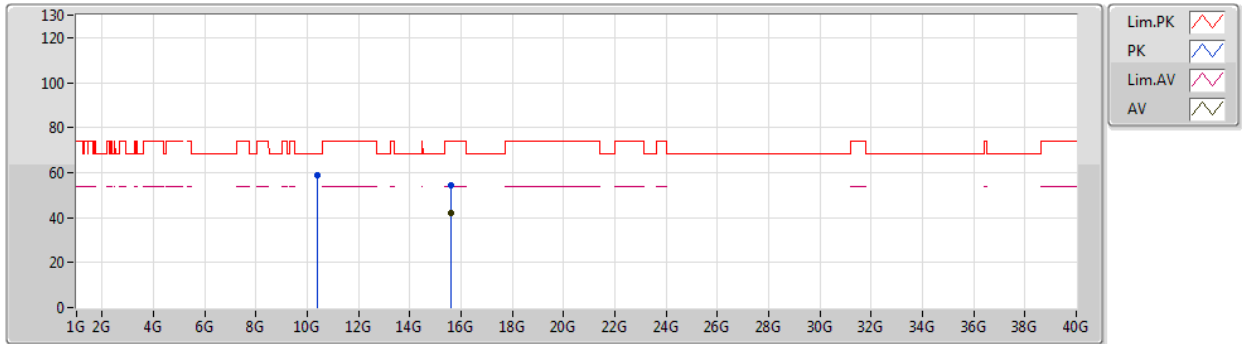
EUT_Z_4TX
Setting 26
02-G-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.39488G	58.08	68.20	-10.12	14.63	3	Vertical	138	1.62	-				
PK	15.60508G	55.67	74.00	-18.33	15.90	3	Vertical	227	1.54	-				
AV	15.60348G	43.64	54.00	-10.36	15.90	3	Vertical	227	1.54	-				

802.11ax HEW20_Nss1,(MCS0)_4TX

01/06/2019

5200MHz_TX



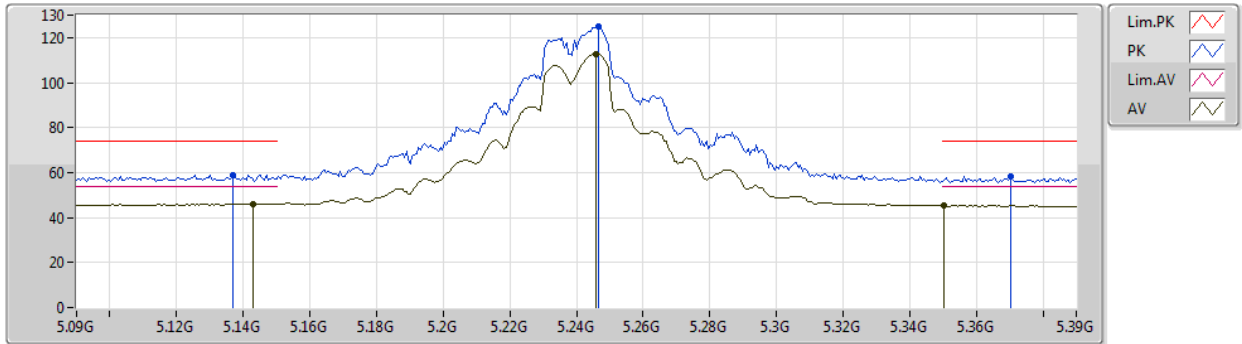
EUT_Z_4TX
Setting 26
02-G-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.39696G	58.68	68.20	-9.52	14.63	3	Horizontal	108	1.85	-				
PK	15.59888G	54.56	74.00	-19.44	15.91	3	Horizontal	137	1.76	-				
AV	15.5964G	41.83	54.00	-12.17	15.92	3	Horizontal	137	1.76	-				

802.11ax HEW20_Nss1,(MCS0)_4TX

01/06/2019

5240MHz_TX



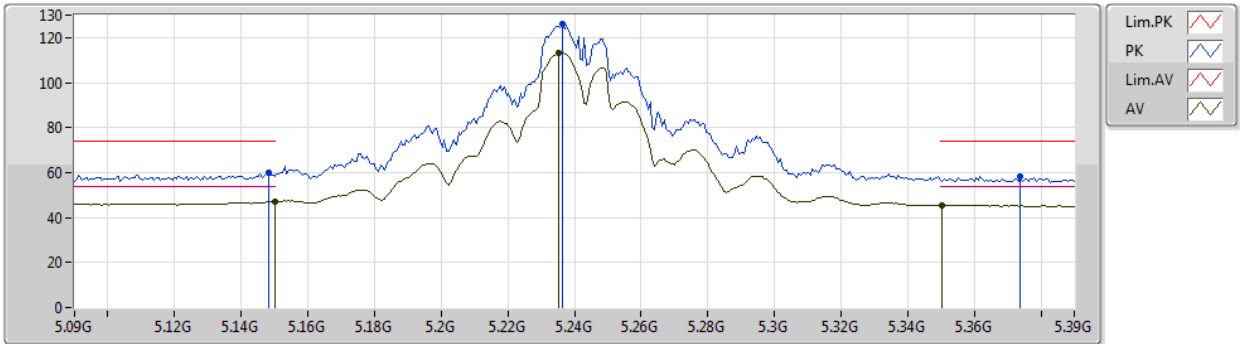
EUT_Z_4TX
Setting 31
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1368G	59.07	74.00	-14.93	7.92	3	Vertical	1	2.45	-				
AV	5.1428G	46.05	54.00	-7.95	7.94	3	Vertical	1	2.45	-				
PK	5.2466G	125.22	Inf	-Inf	8.13	3	Vertical	1	2.45	-				
AV	5.246G	112.86	Inf	-Inf	8.13	3	Vertical	1	2.45	-				
PK	5.3702G	58.19	74.00	-15.81	8.30	3	Vertical	1	2.45	-				
AV	5.3504G	45.29	54.00	-8.71	8.28	3	Vertical	1	2.45	-				

802.11ax HEW20_Nss1,(MCS0)_4TX

01/06/2019

5240MHz_TX



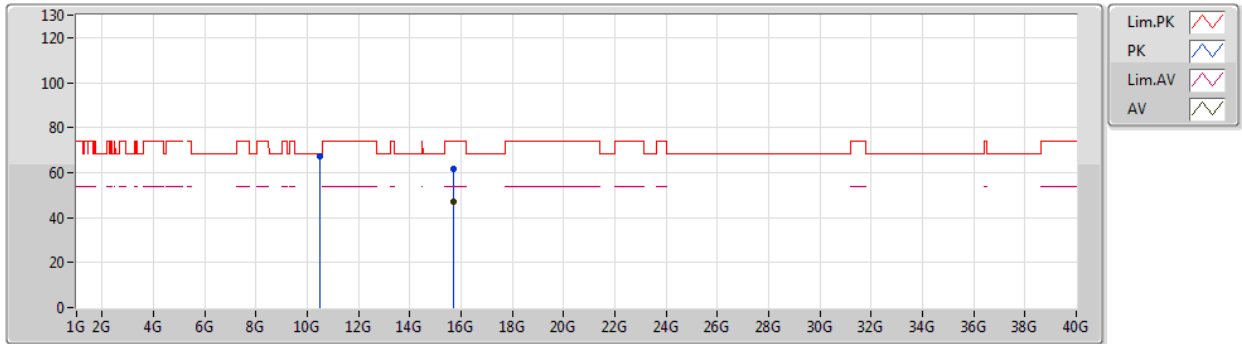
EUT_Z_4TX
Setting 31
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1482G	59.85	74.00	-14.15	7.94	3	Horizontal	171	1.50	-
AV	5.15G	47.15	54.00	-6.85	7.94	3	Horizontal	171	1.50	-
PK	5.2364G	125.87	Inf	-Inf	8.11	3	Horizontal	171	1.50	-
AV	5.2352G	113.28	Inf	-Inf	8.11	3	Horizontal	171	1.50	-
PK	5.3738G	58.17	74.00	-15.83	8.30	3	Horizontal	171	1.50	-
AV	5.3504G	45.41	54.00	-8.59	8.28	3	Horizontal	171	1.50	-

802.11ax HEW20_Nss1,(MCS0)_4TX

01/06/2019

5240MHz_TX



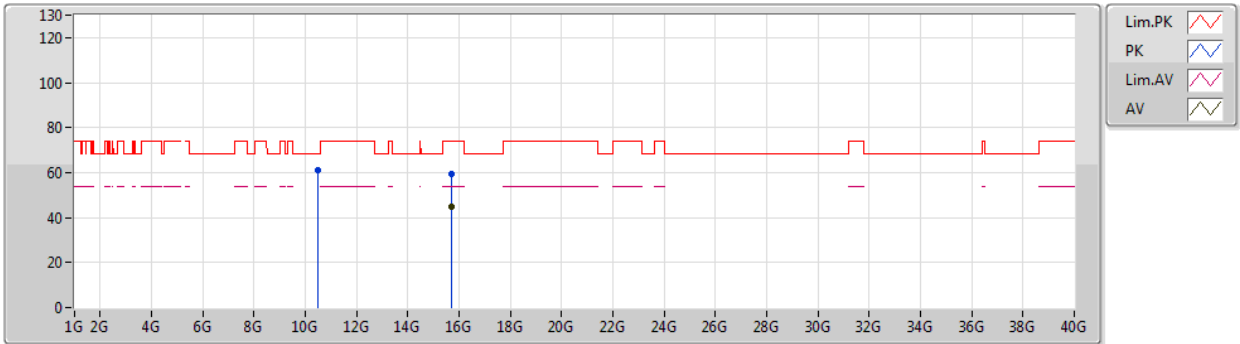
EUT_Z_4TX
Setting 31
02-G-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.4746G	67.24	68.20	-0.96	14.59	3	Vertical	133	2.01	-				
PK	15.7216G	61.39	74.00	-12.61	15.60	3	Vertical	166	1.50	-				
AV	15.72344G	46.85	54.00	-7.15	15.59	3	Vertical	166	1.50	-				

802.11ax HEW20_Nss1,(MCS0)_4TX

01/06/2019

5240MHz_TX



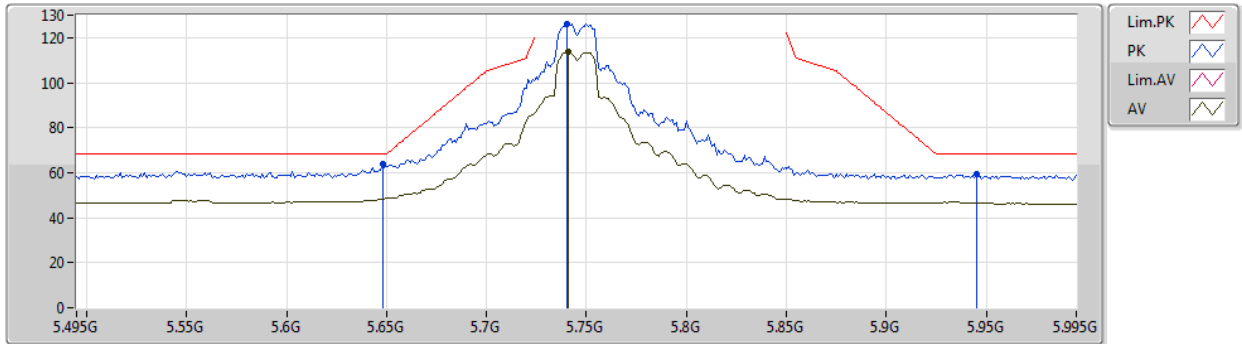
EUT_Z_4TX
Setting 31
02-G-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.47724G	61.26	68.20	-6.94	14.59	3	Horizontal	122	2.53	-				
PK	15.7268G	59.57	74.00	-14.43	15.58	3	Horizontal	230	1.50	-				
AV	15.72476G	45.00	54.00	-9.00	15.59	3	Horizontal	230	1.50	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

21/06/2019

5745MHz_TX



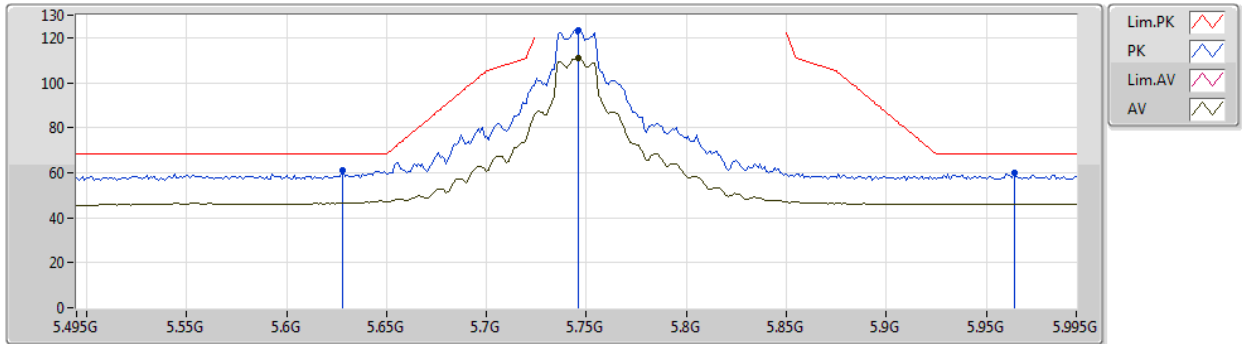
EUT_Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.648G	64.06	68.20	-4.14	8.67	3	Vertical	28	1.41	-				
PK	5.74G	126.32	Inf	-Inf	8.80	3	Vertical	28	1.41	-				
AV	5.741G	113.47	Inf	-Inf	8.80	3	Vertical	28	1.41	-				
PK	5.945G	59.26	68.20	-8.94	8.94	3	Vertical	28	1.41	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

21/06/2019

5745MHz_TX



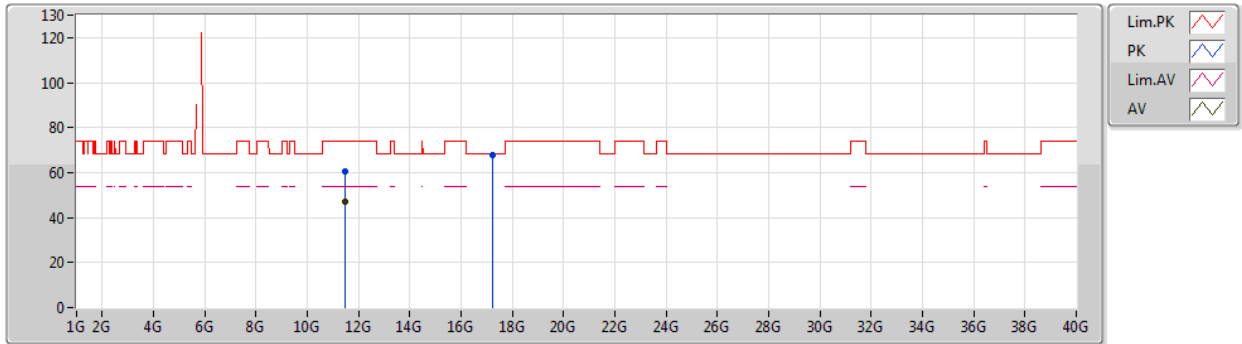
EUT_Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.628G	61.07	68.20	-7.13	8.63	3	Horizontal	151	1.51	-
PK	5.746G	123.22	Inf	-Inf	8.82	3	Horizontal	151	1.51	-
AV	5.746G	110.99	Inf	-Inf	8.82	3	Horizontal	151	1.51	-
PK	5.964G	59.70	68.20	-8.50	8.93	3	Horizontal	151	1.51	-

802.11ax HEW20_Nss1,(MCS0)_2TX

21/06/2019

5745MHz_TX



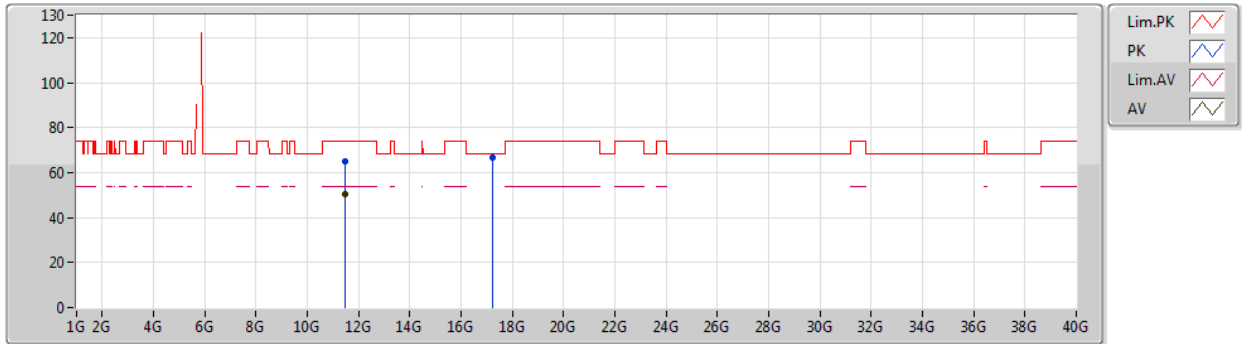
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.48824G	60.37	74.00	-13.63	14.89	3	Vertical	225	1.53	-				
AV	11.48792G	47.04	54.00	-6.96	14.89	3	Vertical	225	1.53	-				
PK	17.23796G	67.82	68.20	-0.38	20.73	3	Vertical	162	2.97	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

21/06/2019

5745MHz_TX



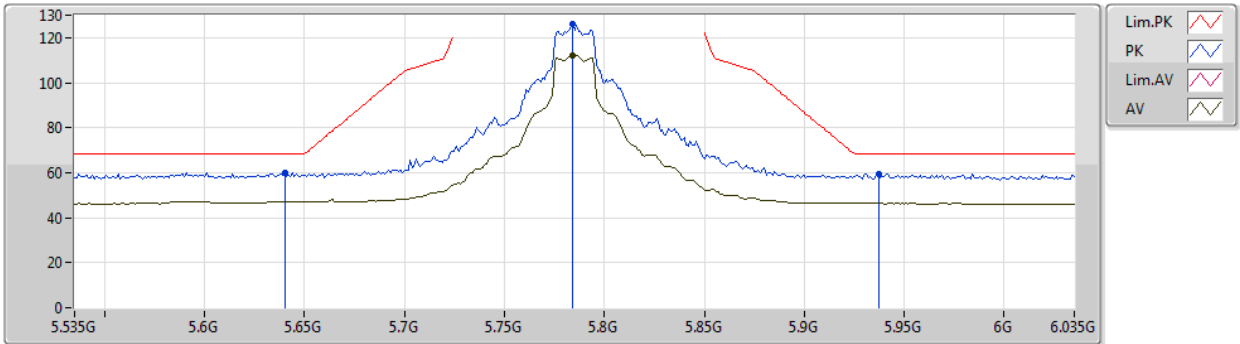
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.4924G	64.87	74.00	-9.13	14.89	3	Horizontal	144	1.32	-				
AV	11.492G	50.35	54.00	-3.65	14.89	3	Horizontal	144	1.32	-				
PK	17.22484G	66.53	68.20	-1.67	20.65	3	Horizontal	210	2.28	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

21/06/2019

5785MHz_TX



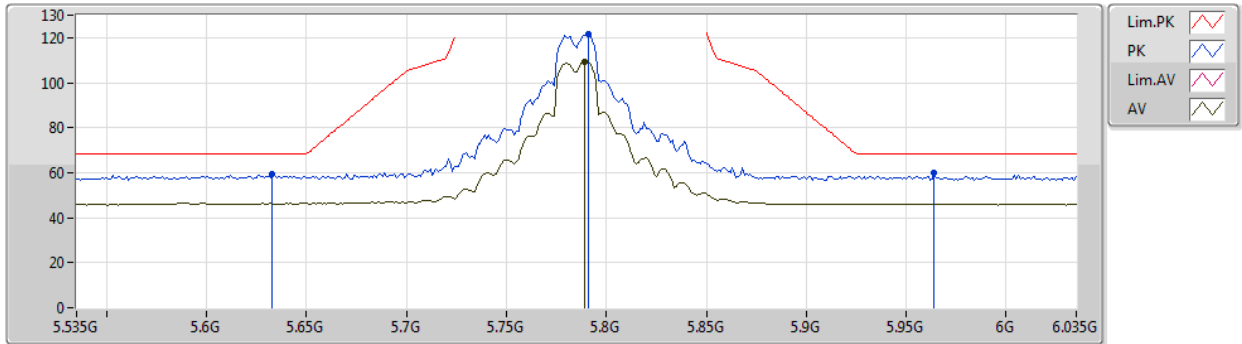
EUT_Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.64G	60.08	68.20	-8.12	8.65	3	Vertical	7	1.72	-				
PK	5.784G	125.99	Inf	-Inf	8.88	3	Vertical	7	1.72	-				
AV	5.784G	112.34	Inf	-Inf	8.88	3	Vertical	7	1.72	-				
PK	5.937G	59.54	68.20	-8.66	8.93	3	Vertical	7	1.72	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

21/06/2019

5785MHz_TX



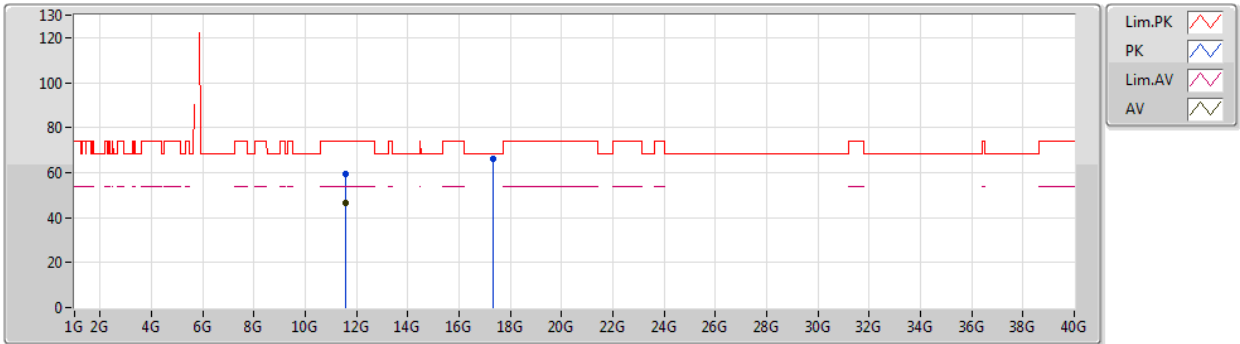
EUT_Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.633G	59.26	68.20	-8.94	8.64	3	Horizontal	167	1.51	-
PK	5.791G	121.48	Inf	-Inf	8.88	3	Horizontal	167	1.51	-
AV	5.789G	109.47	Inf	-Inf	8.88	3	Horizontal	167	1.51	-
PK	5.964G	59.94	68.20	-8.26	8.93	3	Horizontal	167	1.51	-

802.11ax HEW20_Nss1,(MCS0)_2TX

21/06/2019

5785MHz_TX



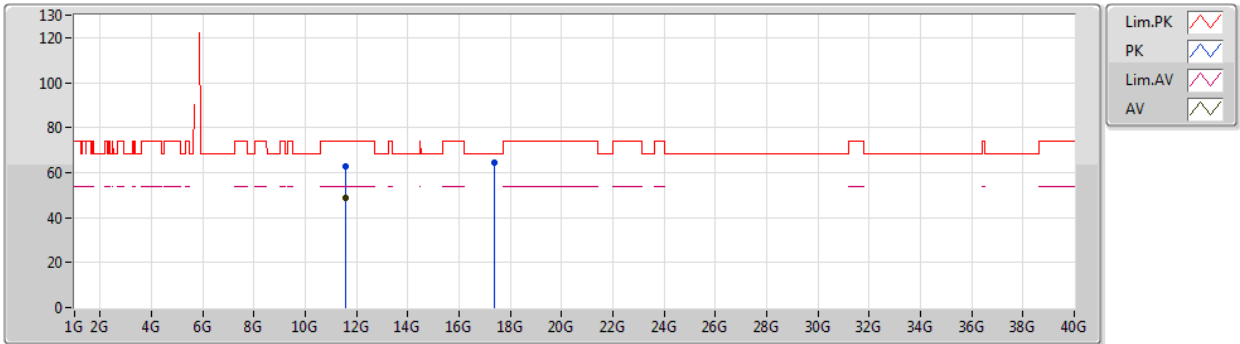
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.57856G	59.61	74.00	-14.39	15.01	3	Vertical	151	1.79	-				
AV	11.56832G	46.30	54.00	-7.70	14.99	3	Vertical	151	1.79	-				
PK	17.343G	65.91	68.20	-2.29	21.35	3	Vertical	159	2.94	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

21/06/2019

5785MHz_TX



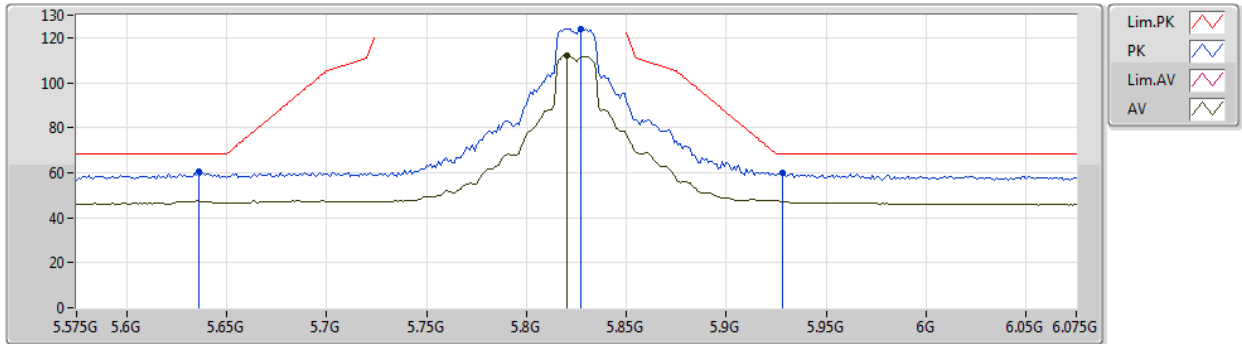
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.56232G	62.66	74.00	-11.34	14.99	3	Horizontal	145	1.16	-				
AV	11.57104G	48.53	54.00	-5.47	15.00	3	Horizontal	145	1.16	-				
PK	17.35932G	64.30	68.20	-3.90	21.44	3	Horizontal	156	1.44	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

21/06/2019

5825MHz_TX



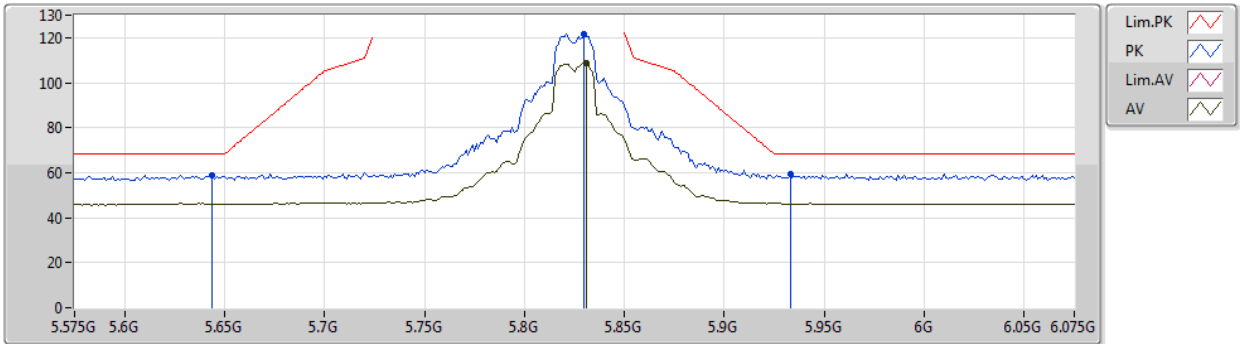
EUT_Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.636G	60.40	68.20	-7.80	8.64	3	Vertical	7	1.48	-				
PK	5.827G	124.09	Inf	-Inf	8.91	3	Vertical	7	1.48	-				
AV	5.82G	112.04	Inf	-Inf	8.90	3	Vertical	7	1.48	-				
PK	5.928G	59.98	68.20	-8.22	8.93	3	Vertical	7	1.48	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

21/06/2019

5825MHz_TX



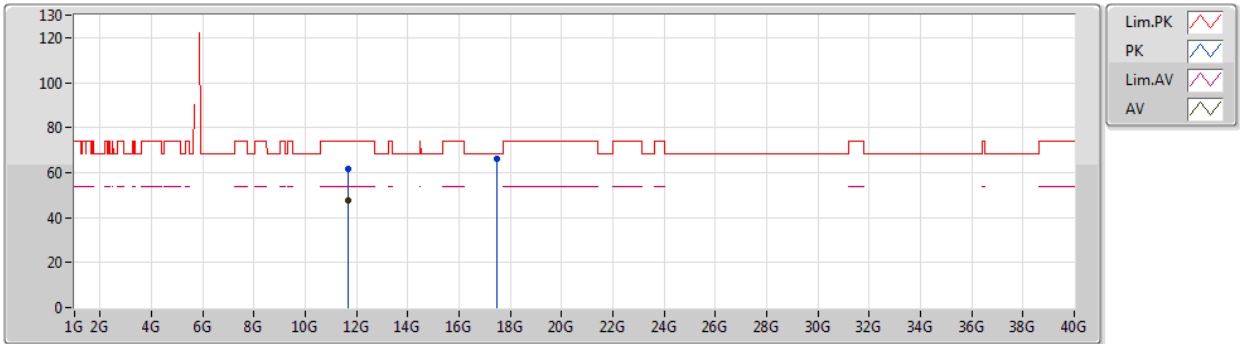
EUT_Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.644G	58.99	68.20	-9.21	8.66	3	Horizontal	179	1.41	-				
PK	5.83G	121.67	Inf	-Inf	8.91	3	Horizontal	179	1.41	-				
AV	5.831G	108.67	Inf	-Inf	8.91	3	Horizontal	179	1.41	-				
PK	5.933G	59.38	68.20	-8.82	8.93	3	Horizontal	179	1.41	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

21/06/2019

5825MHz_TX



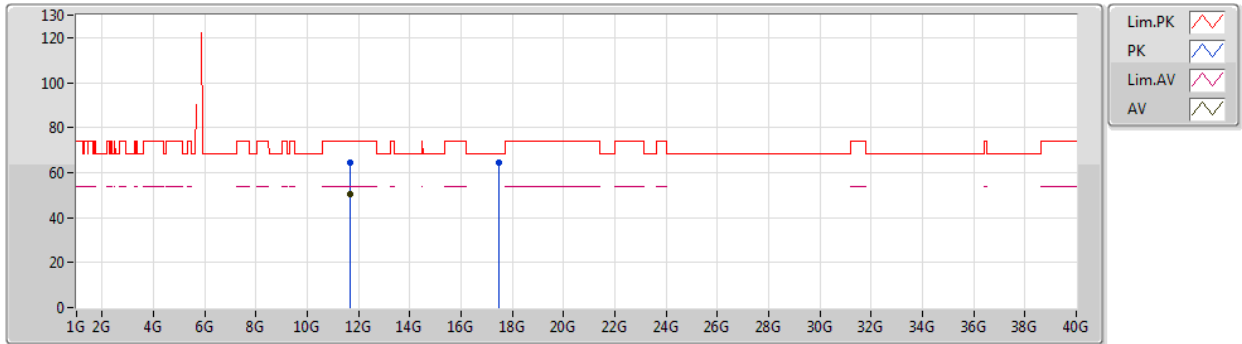
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.65072G	61.40	74.00	-12.60	15.09	3	Vertical	149	1.57	-				
AV	11.65056G	47.82	54.00	-6.18	15.09	3	Vertical	149	1.57	-				
PK	17.47836G	66.36	68.20	-1.84	22.16	3	Vertical	165	2.98	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

21/06/2019

5825MHz_TX



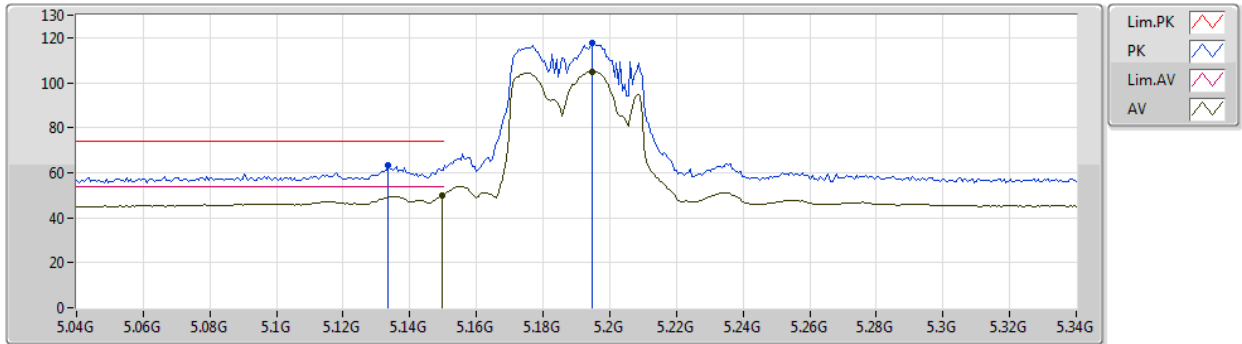
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.65032G	64.22	74.00	-9.78	15.09	3	Horizontal	143	1.13	-				
AV	11.65064G	50.61	54.00	-3.39	15.09	3	Horizontal	143	1.13	-				
PK	17.47556G	64.59	68.20	-3.61	22.13	3	Horizontal	158	1.33	-				

802.11ax HEW40_Nss1,(MCS0)_4TX

03/06/2019

5190MHz_TX



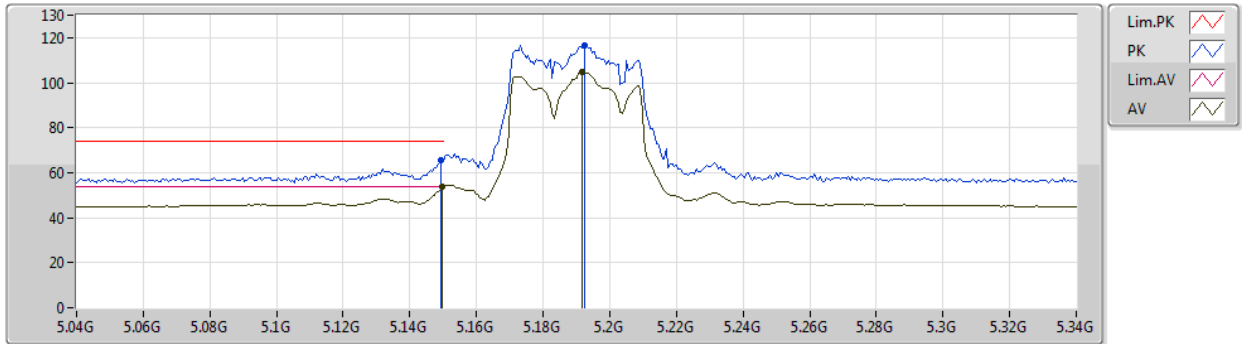
EUT_Z_4TX
Setting 20
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1336G	63.04	74.00	-10.96	7.92	3	Vertical	214	1.52	-				
AV	5.1498G	49.79	54.00	-4.21	7.94	3	Vertical	214	1.52	-				
PK	5.1948G	117.49	Inf	-Inf	8.05	3	Vertical	214	1.52	-				
AV	5.1948G	105.01	Inf	-Inf	8.05	3	Vertical	214	1.52	-				

802.11ax HEW40_Nss1,(MCS0)_4TX

03/06/2019

5190MHz_TX



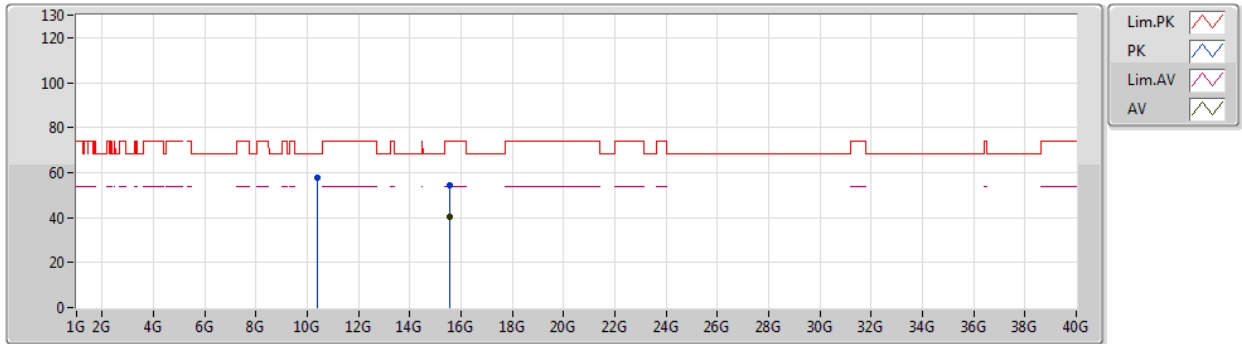
EUT_Z_4TX
Setting 20
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1492G	65.45	74.00	-8.55	7.94	3	Horizontal	267	1.65	-				
AV	5.1498G	53.65	54.00	-0.35	7.94	3	Horizontal	267	1.65	-				
PK	5.1924G	116.54	Inf	-Inf	8.04	3	Horizontal	267	1.65	-				
AV	5.1918G	104.78	Inf	-Inf	8.04	3	Horizontal	267	1.65	-				

802.11ax HEW40_Nss1,(MCS0)_4TX

03/06/2019

5190MHz_TX



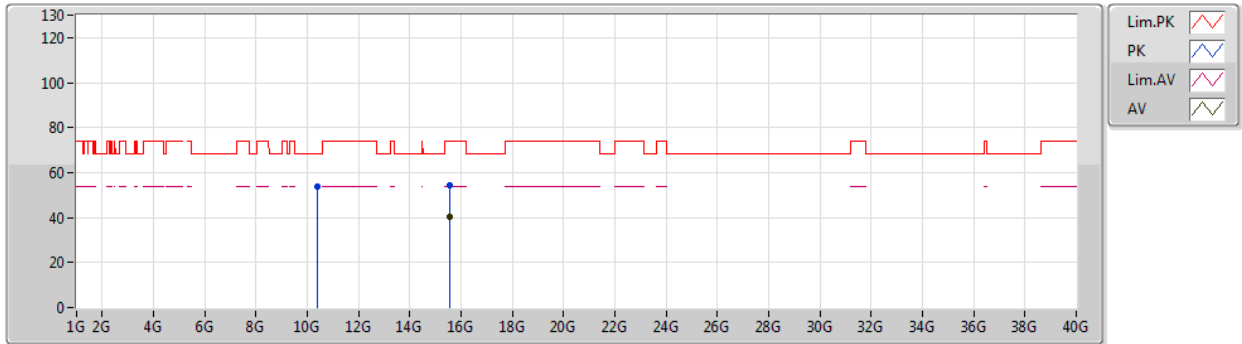
EUT_Z_4TX
Setting 20
02-G-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.3744G	57.52	68.20	-10.68	14.66	3	Vertical	137	2.06	-				
PK	15.57132G	54.26	74.00	-19.74	15.99	3	Vertical	200	1.80	-				
AV	15.56172G	40.51	54.00	-13.49	16.02	3	Vertical	200	1.80	-				

802.11ax HEW40_Nss1,(MCS0)_4TX

03/06/2019

5190MHz_TX



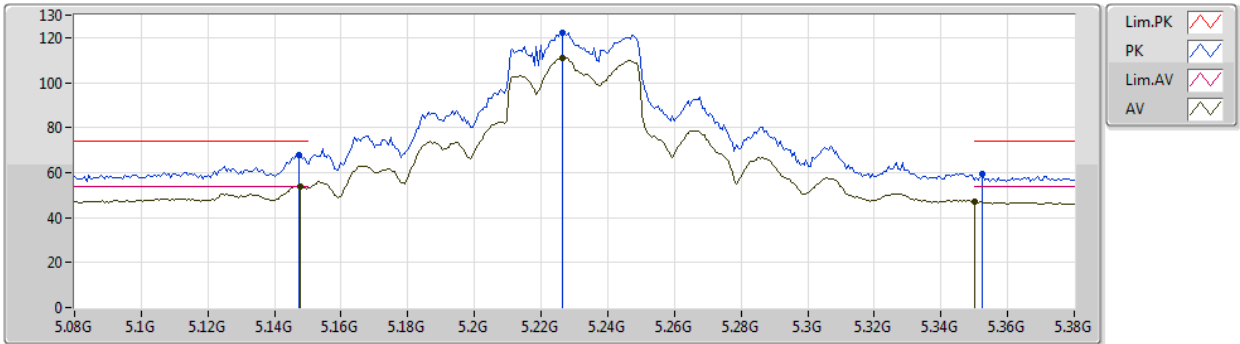
EUT_Z_4TX
Setting 20
02-G-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.37472G	53.83	68.20	-14.37	14.66	3	Horizontal	141	1.57	-				
PK	15.56816G	54.63	74.00	-19.37	16.00	3	Horizontal	235	1.65	-				
AV	15.5634G	40.52	54.00	-13.48	16.02	3	Horizontal	235	1.65	-				

802.11ax HEW40_Nss1,(MCS0)_4TX

01/06/2019

5230MHz_TX



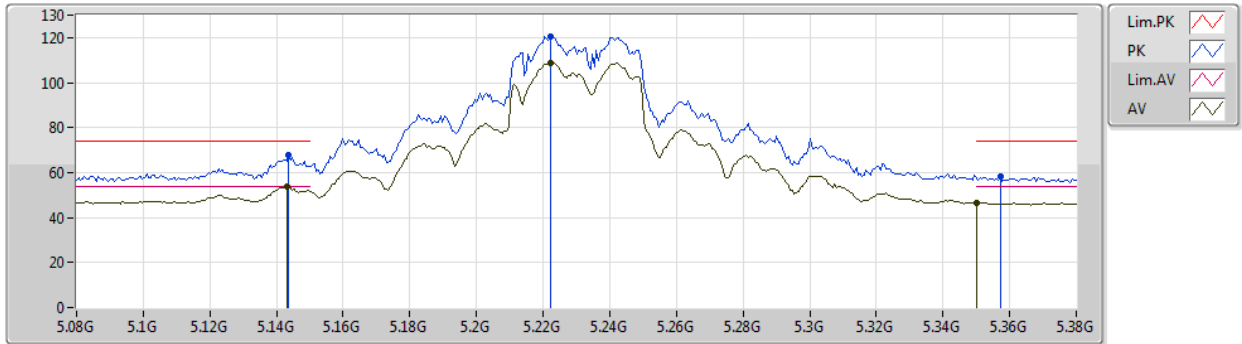
EUT_Z_4TX
Setting 25
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1472G	67.93	74.00	-6.07	7.94	3	Vertical	204	1.66	-				
AV	5.1478G	53.93	54.00	-0.07	7.94	3	Vertical	204	1.66	-				
PK	5.2264G	122.39	Inf	-Inf	8.10	3	Vertical	204	1.66	-				
AV	5.2264G	110.77	Inf	-Inf	8.10	3	Vertical	204	1.66	-				
PK	5.3524G	59.15	74.00	-14.85	8.28	3	Vertical	204	1.66	-				
AV	5.35G	47.11	54.00	-6.89	8.28	3	Vertical	204	1.66	-				

802.11ax HEW40_Nss1,(MCS0)_4TX

01/06/2019

5230MHz_TX



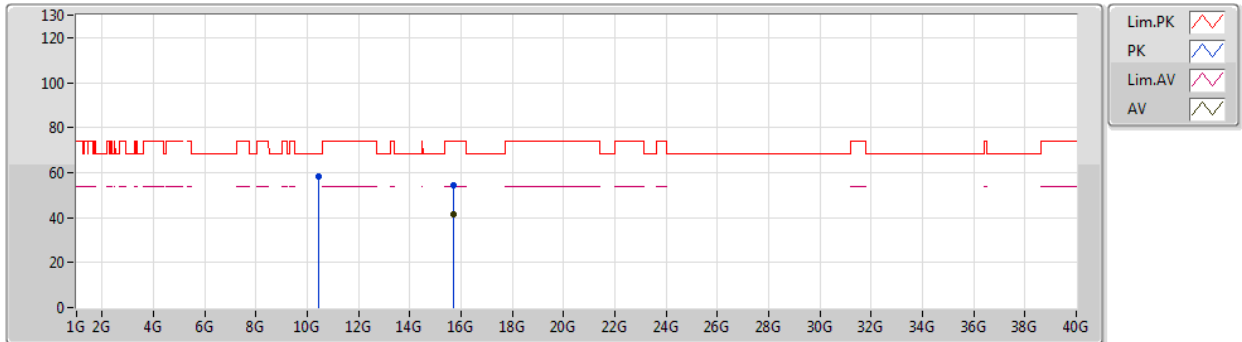
EUT_Z_4TX
Setting 25
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1436G	67.89	74.00	-6.11	7.94	3	Horizontal	252	1.64	-				
AV	5.143G	53.59	54.00	-0.41	7.94	3	Horizontal	252	1.64	-				
PK	5.2222G	120.56	Inf	-Inf	8.10	3	Horizontal	252	1.64	-				
AV	5.2222G	108.95	Inf	-Inf	8.10	3	Horizontal	252	1.64	-				
PK	5.3572G	58.06	74.00	-15.94	8.28	3	Horizontal	252	1.64	-				
AV	5.35G	46.54	54.00	-7.46	8.28	3	Horizontal	252	1.64	-				

802.11ax HEW40_Nss1,(MCS0)_4TX

01/06/2019

5230MHz_TX



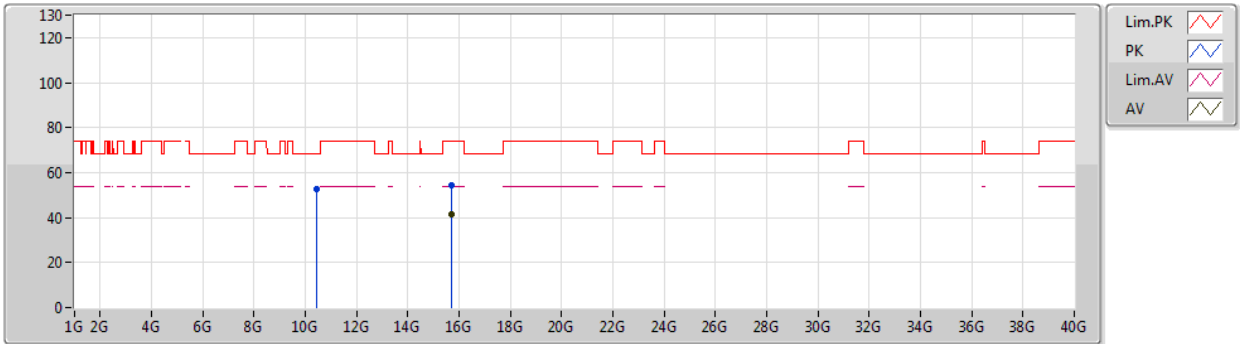
EUT_Z_4TX
Setting 25
02-G-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.45728G	58.20	68.20	-10.00	14.60	3	Vertical	235	1.45	-				
PK	15.68488G	54.18	74.00	-19.82	15.69	3	Vertical	168	1.52	-				
AV	15.68488G	41.62	54.00	-12.38	15.69	3	Vertical	168	1.52	-				

802.11ax HEW40_Nss1,(MCS0)_4TX

01/06/2019

5230MHz_TX



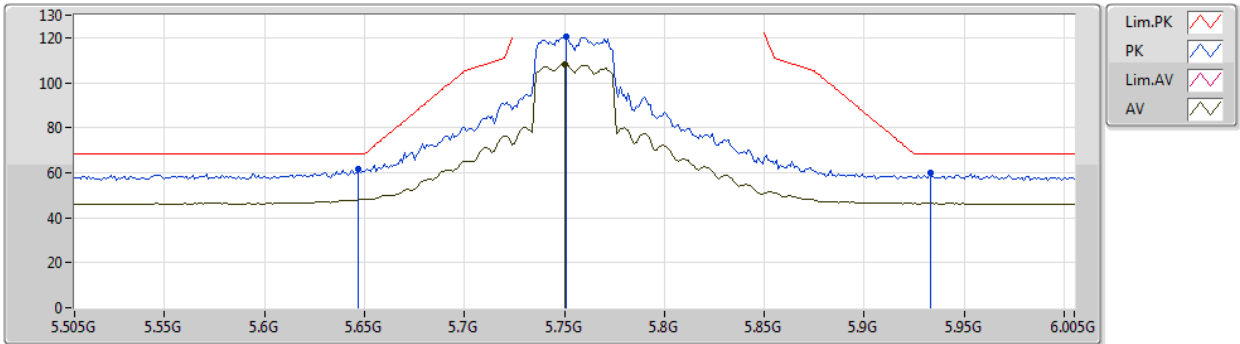
EUT_Z_4TX
Setting 25
02-G-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.46284G	52.66	68.20	-15.54	14.60	3	Horizontal	274	1.41	-				
PK	15.68828G	54.55	74.00	-19.45	15.68	3	Horizontal	313	1.14	-				
AV	15.684G	41.63	54.00	-12.37	15.70	3	Horizontal	313	1.14	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

22/06/2019

5755MHz_TX



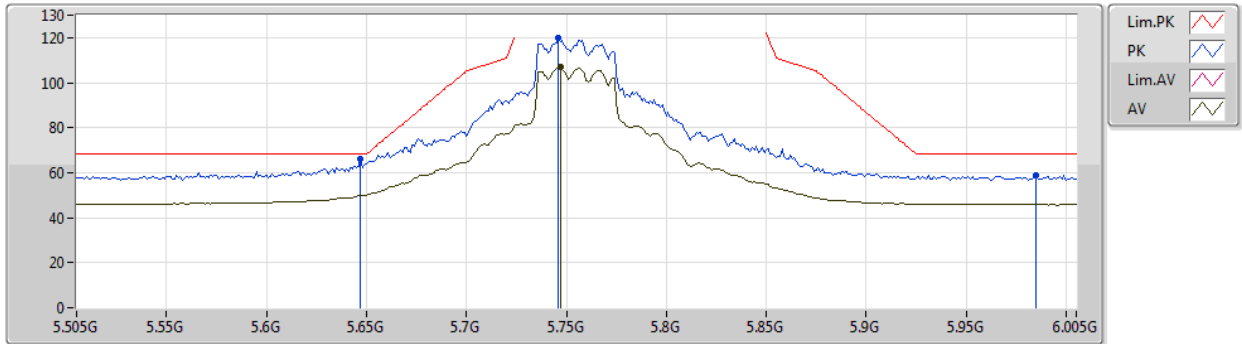
EUT_Z_2TX
Setting 25.5
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.647G	61.43	68.20	-6.77	8.67	3	Vertical	14	1.54	-				
PK	5.751G	120.39	Inf	-Inf	8.83	3	Vertical	14	1.54	-				
AV	5.75G	107.98	Inf	-Inf	8.83	3	Vertical	14	1.54	-				
PK	5.933G	59.92	68.20	-8.28	8.93	3	Vertical	14	1.54	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

22/06/2019

5755MHz_TX



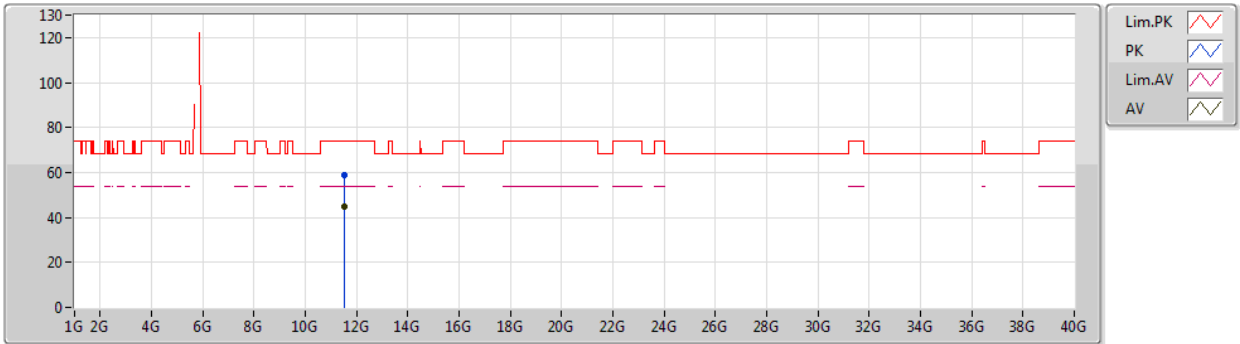
EUT_Z_2TX
Setting 25.5
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.647G	66.04	68.20	-2.16	8.67	3	Horizontal	155	2.31	-				
PK	5.746G	119.98	Inf	-Inf	8.82	3	Horizontal	155	2.31	-				
AV	5.747G	106.79	Inf	-Inf	8.82	3	Horizontal	155	2.31	-				
PK	5.985G	58.92	68.20	-9.28	8.93	3	Horizontal	155	2.31	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

22/06/2019

5755MHz_TX



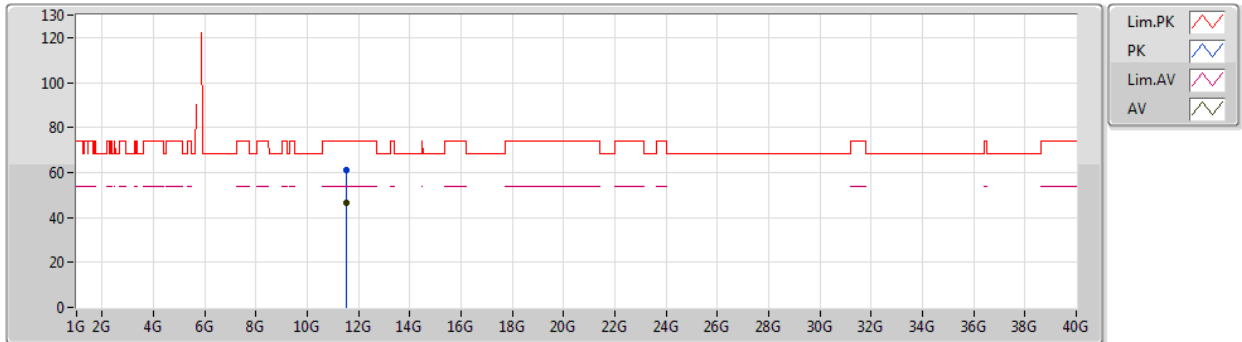
EUT_Z_2TX
Setting 25.5
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.508G	59.01	74.00	-14.99	14.92	3	Vertical	160	1.88	-				
AV	11.50736G	44.73	54.00	-9.27	14.92	3	Vertical	160	1.88	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

22/06/2019

5755MHz_TX



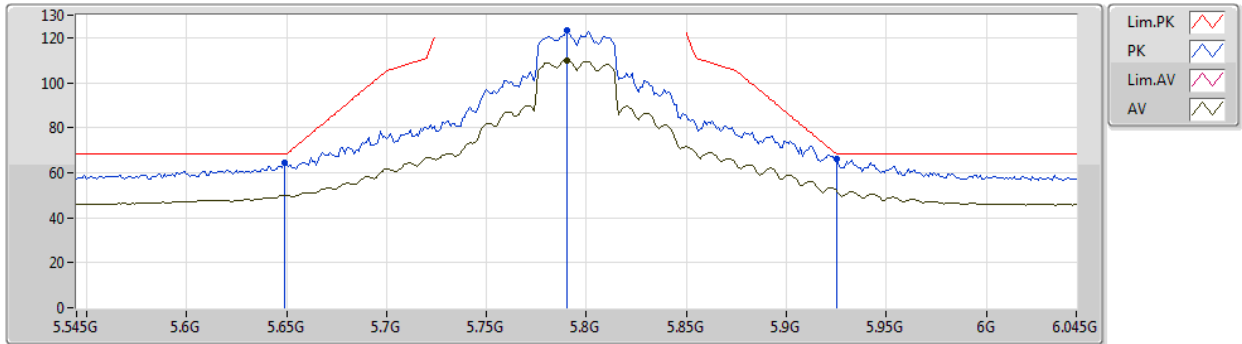
EUT_Z_2TX
Setting 25.5
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.50288G	61.16	74.00	-12.84	14.91	3	Horizontal	143	1.26	-				
AV	11.51264G	46.46	54.00	-7.54	14.92	3	Horizontal	143	1.26	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

22/06/2019

5795MHz_TX



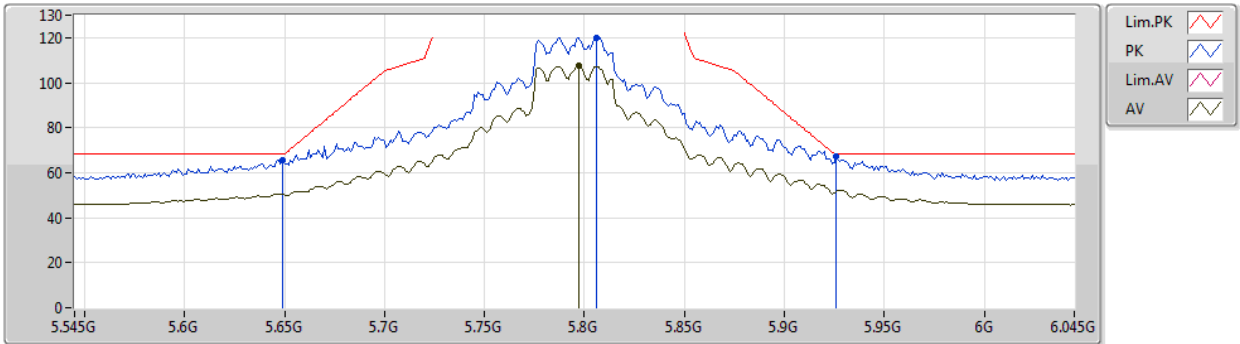
EUT_Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.649G	64.68	68.20	-3.52	8.67	3	Vertical	18	1.59	-				
PK	5.79G	123.00	Inf	-Inf	8.88	3	Vertical	18	1.59	-				
AV	5.79G	109.70	Inf	-Inf	8.88	3	Vertical	18	1.59	-				
PK	5.925G	66.01	68.20	-2.19	8.93	3	Vertical	18	1.59	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

22/06/2019

5795MHz_TX



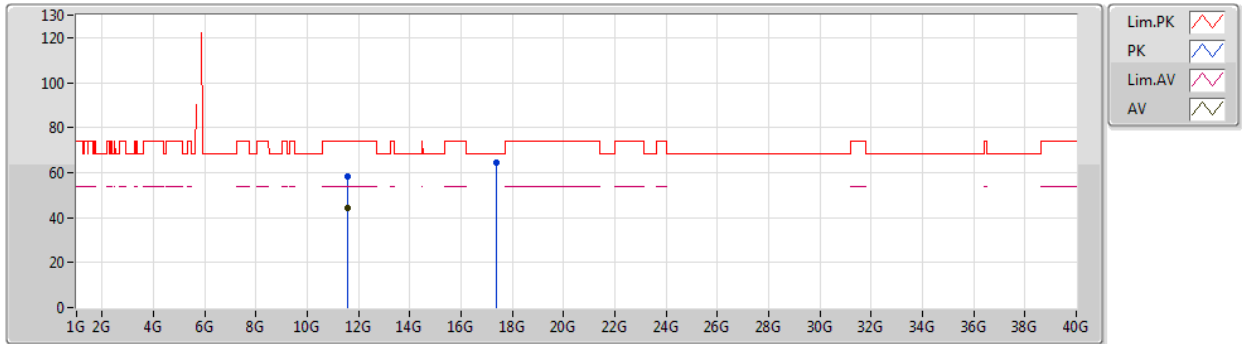
EUT_Z_2TX
Setting 29
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.649G	65.38	68.20	-2.82	8.67	3	Horizontal	153	2.28	-
PK	5.806G	120.00	Inf	-Inf	8.90	3	Horizontal	153	2.28	-
AV	5.797G	107.71	Inf	-Inf	8.90	3	Horizontal	153	2.28	-
PK	5.926G	67.33	68.20	-0.87	8.93	3	Horizontal	153	2.28	-

802.11ax HEW40_Nss1,(MCS0)_2TX

22/06/2019

5795MHz_TX



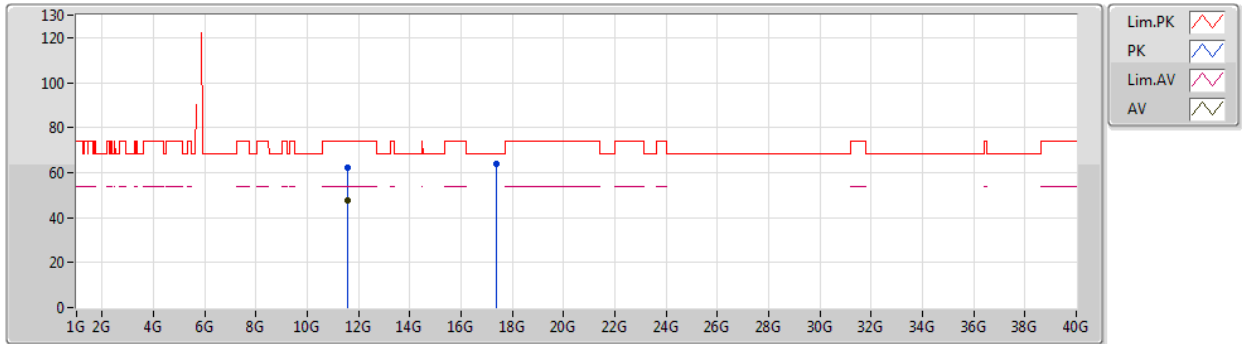
EUT_Z_2TX
Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	11.59648G	58.45	74.00	-15.55	15.04	3	Vertical	168	2.27	-
AV	11.5868G	44.24	54.00	-9.76	15.02	3	Vertical	168	2.27	-
PK	17.38796G	64.56	68.20	-3.64	21.62	3	Vertical	166	2.97	-

802.11ax HEW40_Nss1,(MCS0)_2TX

22/06/2019

5795MHz_TX



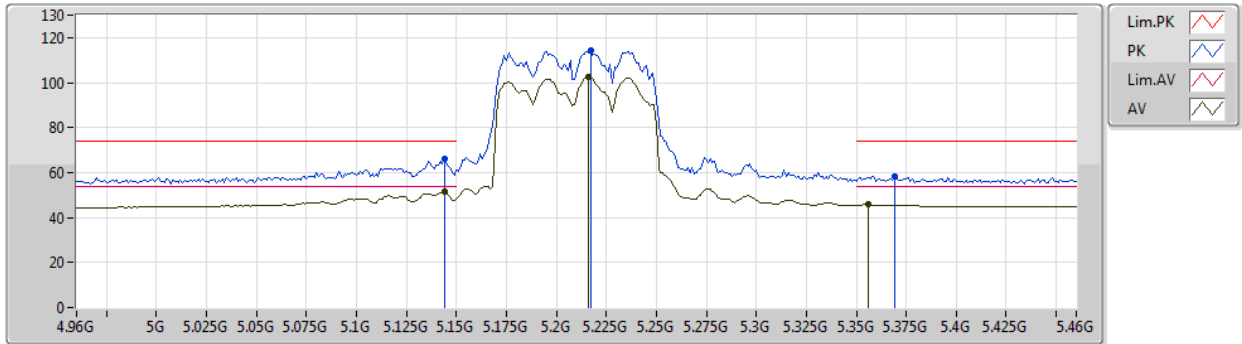
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Setting 29
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.59136G	61.95	74.00	-12.05	15.02	3	Horizontal	145	1.04	-				
AV	11.59G	47.82	54.00	-6.18	15.02	3	Horizontal	145	1.04	-				
PK	17.38516G	64.11	68.20	-4.09	21.60	3	Horizontal	156	1.40	-				

802.11ax HEW80_Nss1,(MCS0)_4TX

01/06/2019

5210MHz_TX



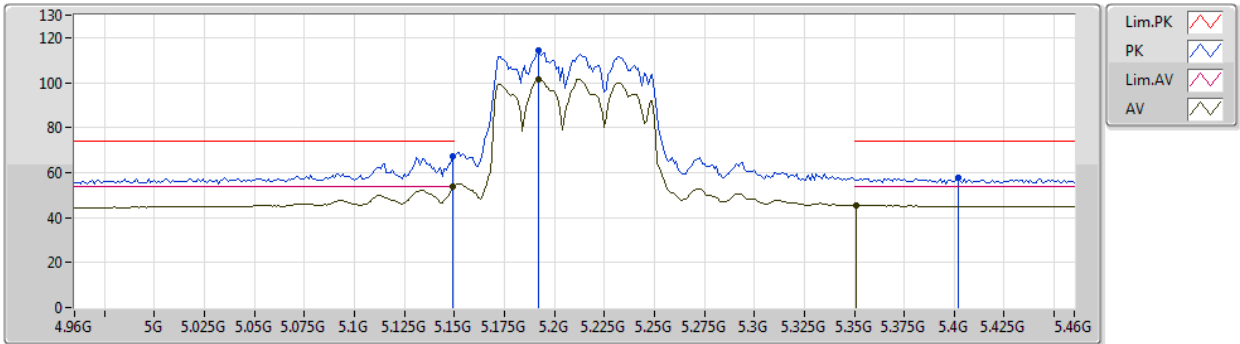
EUT_Z_4TX
Setting 20
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.144G	65.86	74.00	-8.14	7.94	3	Vertical	192	1.50	-				
AV	5.144G	51.32	54.00	-2.68	7.94	3	Vertical	192	1.50	-				
PK	5.217G	114.47	Inf	-Inf	8.09	3	Vertical	192	1.50	-				
AV	5.216G	102.49	Inf	-Inf	8.08	3	Vertical	192	1.50	-				
PK	5.369G	58.05	74.00	-15.95	8.30	3	Vertical	192	1.50	-				
AV	5.356G	45.73	54.00	-8.27	8.28	3	Vertical	192	1.50	-				

802.11ax HEW80_Nss1,(MCS0)_4TX

01/06/2019

5210MHz_TX



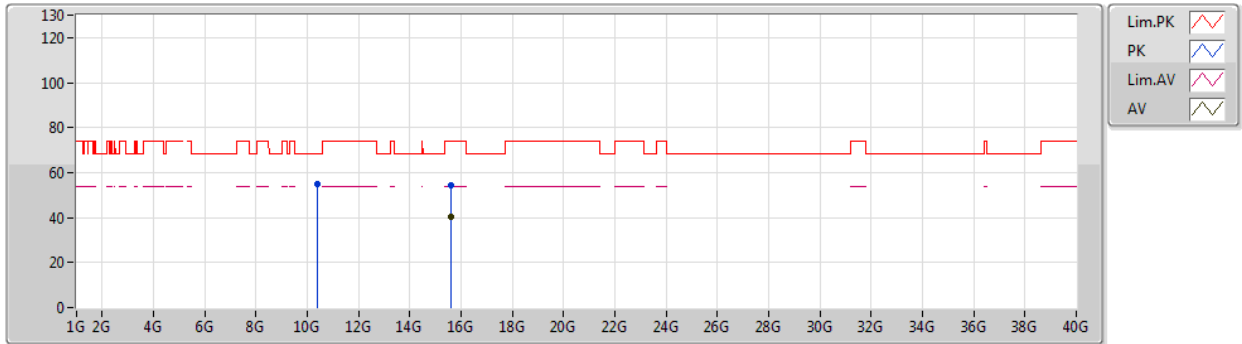
EUT_Z_4TX
Setting 20
02-N-2-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.149G	67.32	74.00	-6.68	7.94	3	Horizontal	232	1.50	-				
AV	5.149G	53.79	54.00	-0.21	7.94	3	Horizontal	232	1.50	-				
PK	5.192G	114.21	Inf	-Inf	8.04	3	Horizontal	232	1.50	-				
AV	5.192G	101.36	Inf	-Inf	8.04	3	Horizontal	232	1.50	-				
PK	5.402G	57.64	74.00	-16.36	8.34	3	Horizontal	232	1.50	-				
AV	5.351G	45.47	54.00	-8.53	8.28	3	Horizontal	232	1.50	-				

802.11ax HEW80_Nss1,(MCS0)_4TX

01/06/2019

5210MHz_TX



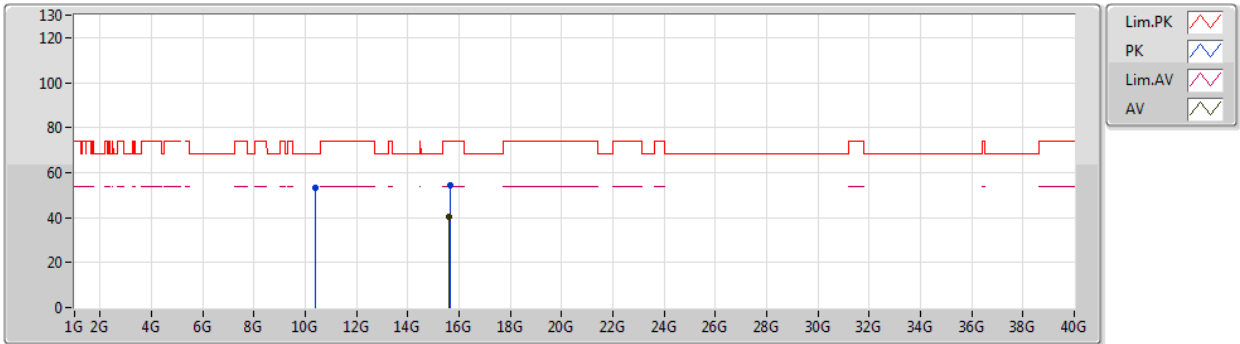
EUT_Z_4TX
Setting 20
02-N-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.41456G	54.87	68.20	-13.33	14.62	3	Vertical	138	2.03	-				
PK	15.62704G	54.53	74.00	-19.47	15.84	3	Vertical	309	2.01	-				
AV	15.62548G	40.45	54.00	-13.55	15.85	3	Vertical	309	2.01	-				

802.11ax HEW80_Nss1,(MCS0)_4TX

01/06/2019

5210MHz_TX



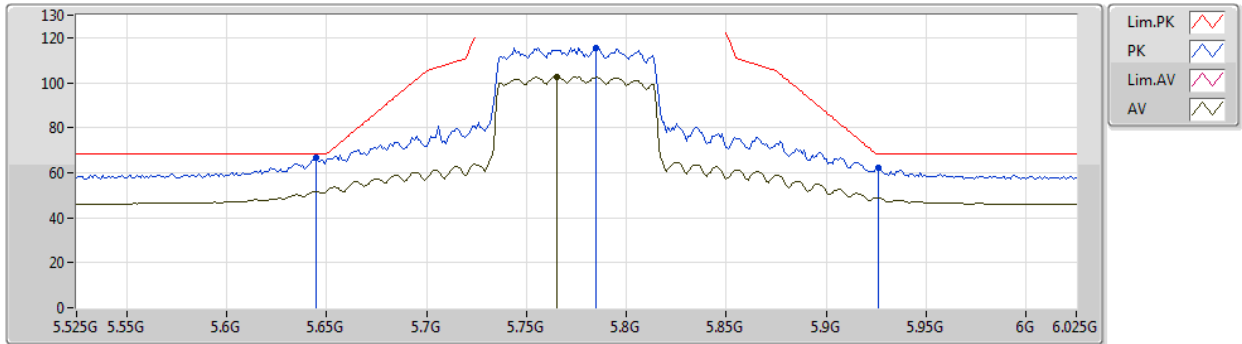
EUT_Z_4TX
Setting 20
02-N-2
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.41368G	53.16	68.20	-15.04	14.62	3	Horizontal	294	2.33	-				
PK	15.63556G	54.41	74.00	-19.59	15.82	3	Horizontal	356	1.46	-				
AV	15.62116G	40.37	54.00	-13.63	15.85	3	Horizontal	356	1.46	-				

802.11ax HEW80_Nss1,(MCS0)_2TX

22/06/2019

5775MHz_TX



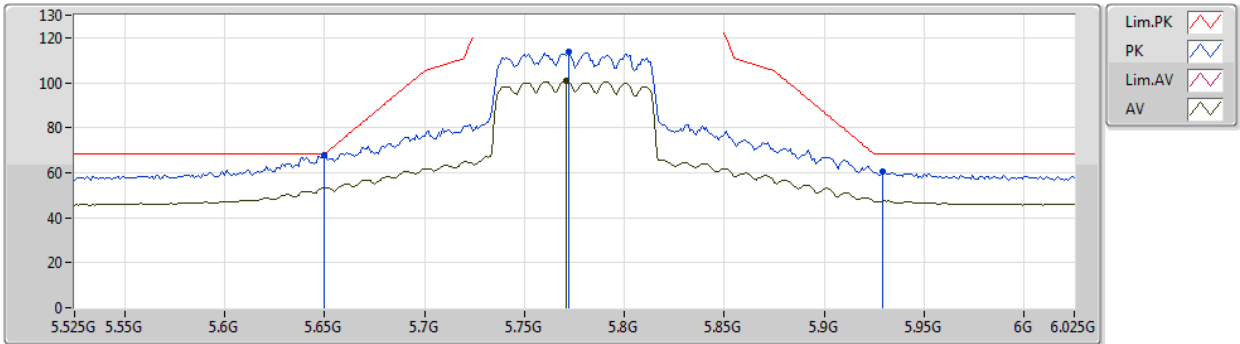
EUT_Z_2TX
Setting 23.5
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.645G	66.51	68.20	-1.69	8.66	3	Vertical	11	1.61	-				
PK	5.785G	115.67	Inf	-Inf	8.88	3	Vertical	11	1.61	-				
AV	5.765G	102.82	Inf	-Inf	8.84	3	Vertical	11	1.61	-				
PK	5.926G	62.15	68.20	-6.05	8.93	3	Vertical	11	1.61	-				

802.11ax HEW80_Nss1,(MCS0)_2TX

22/06/2019

5775MHz_TX



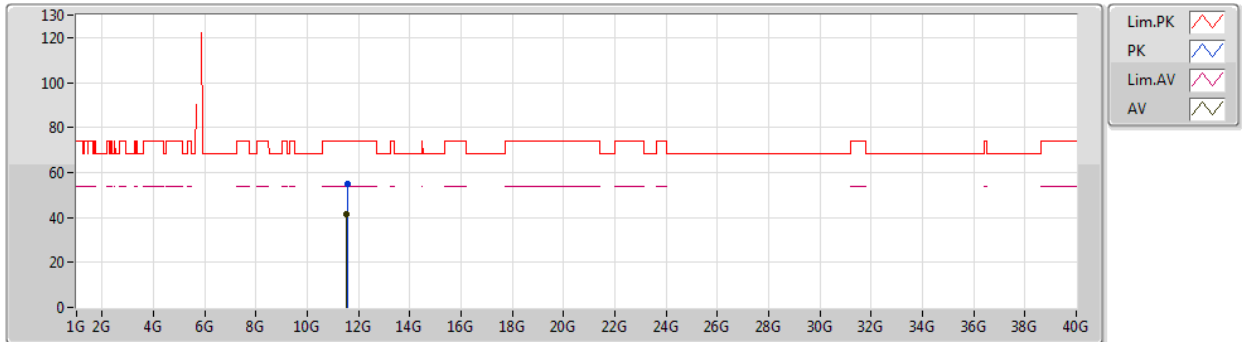
EUT_Z_2TX
Setting 23.5
02-B-4-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.65G	67.60	68.20	-0.60	8.66	3	Horizontal	157	2.21	-
PK	5.772G	113.90	Inf	-Inf	8.85	3	Horizontal	157	2.21	-
AV	5.771G	100.99	Inf	-Inf	8.85	3	Horizontal	157	2.21	-
PK	5.929G	60.56	68.20	-7.64	8.93	3	Horizontal	157	2.21	-

802.11ax HEW80_Nss1,(MCS0)_2TX

22/06/2019

5775MHz_TX



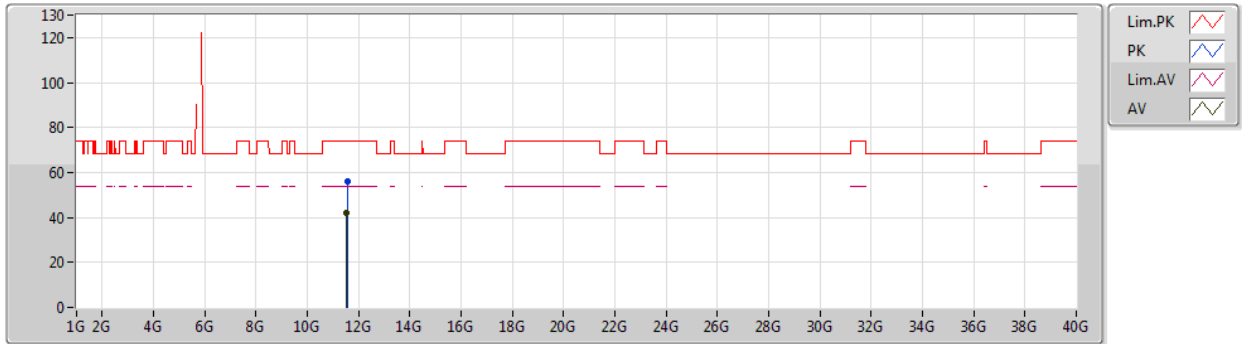
EUT_Z_2TX
Setting 23.5
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.55608G	55.08	74.00	-18.92	14.97	3	Vertical	163	2.89	-				
AV	11.54616G	41.60	54.00	-12.40	14.97	3	Vertical	163	2.89	-				

802.11ax HEW80_Nss1,(MCS0)_2TX

22/06/2019

5775MHz_TX



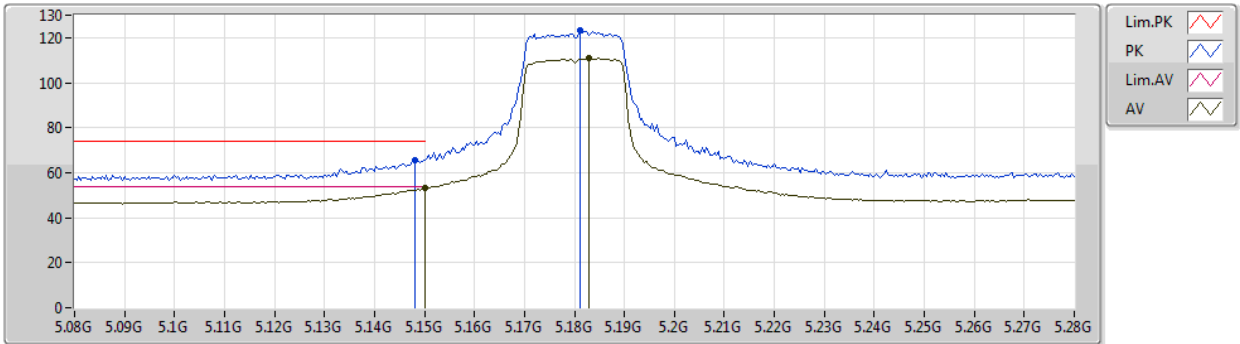
EUT_Z_2TX
Setting 23.5
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.56G	56.22	74.00	-17.78	14.99	3	Horizontal	130	1.30	-				
AV	11.54056G	42.12	54.00	-11.88	14.96	3	Horizontal	130	1.30	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

10/06/2019

5180MHz_TX



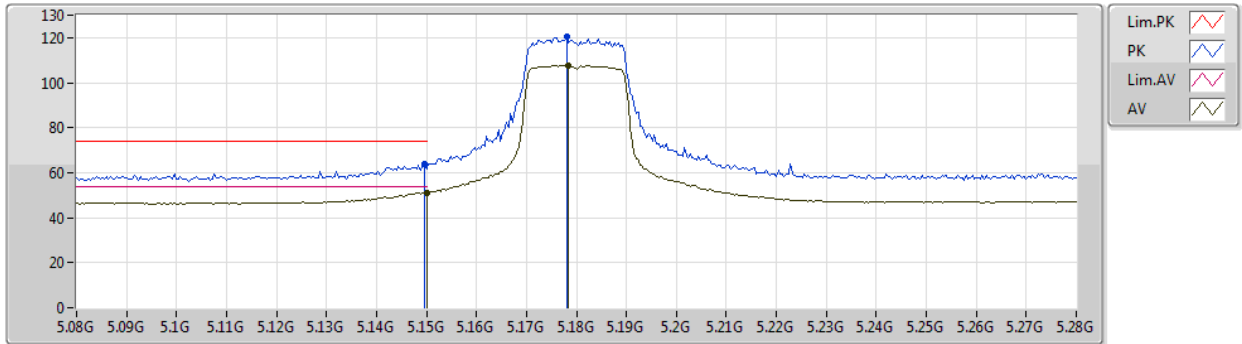
EUT_Z_4TX
Setting 28
02-J-5-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.148G	65.57	74.00	-8.43	7.94	3	Vertical	265	2.19	-				
AV	5.15G	53.27	54.00	-0.73	7.94	3	Vertical	265	2.19	-				
PK	5.1812G	123.08	Inf	-Inf	8.02	3	Vertical	265	2.19	-				
AV	5.1828G	110.96	Inf	-Inf	8.02	3	Vertical	265	2.19	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

10/06/2019

5180MHz_TX



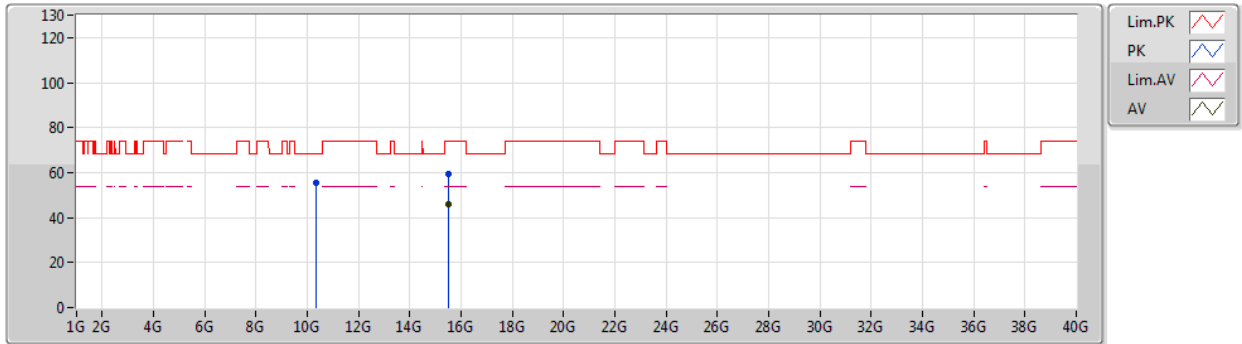
EUT_Z_4TX
Setting 28
02-J-5-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1496G	63.61	74.00	-10.39	7.94	3	Horizontal	278	1.51	-				
AV	5.15G	51.16	54.00	-2.84	7.94	3	Horizontal	278	1.51	-				
PK	5.178G	120.53	Inf	-Inf	8.02	3	Horizontal	278	1.51	-				
AV	5.1784G	107.59	Inf	-Inf	8.02	3	Horizontal	278	1.51	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

10/06/2019

5180MHz_TX



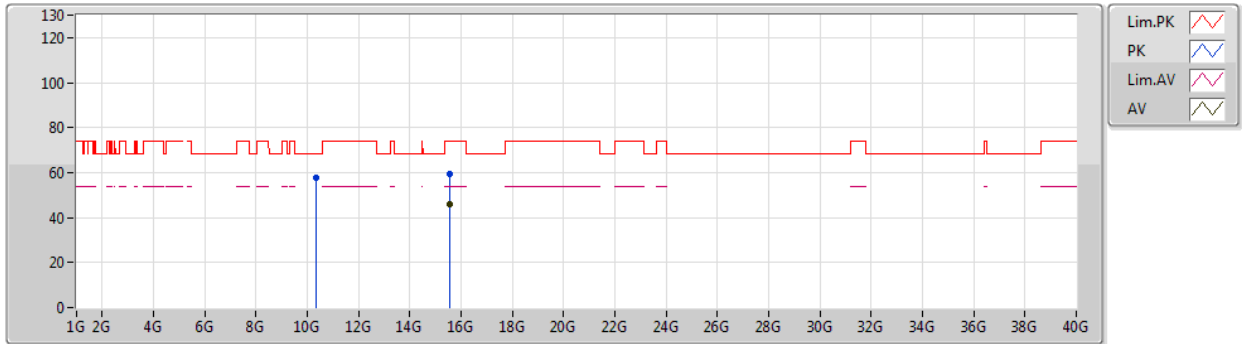
EUT_Z_4TX
Setting 28
02-J-5
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.36036G	55.61	68.20	-12.59	14.66	3	Vertical	211	1.47	-				
PK	15.52812G	59.61	74.00	-14.39	16.10	3	Vertical	218	1.84	-				
AV	15.5313G	46.06	54.00	-7.94	16.10	3	Vertical	218	1.84	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

10/06/2019

5180MHz_TX



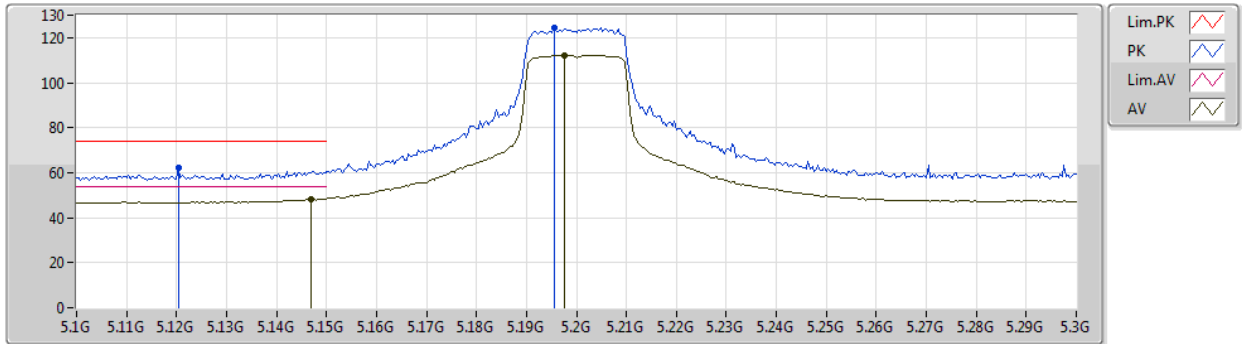
EUT_Z_4TX
Setting 28
02-J-5
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.36216G	57.83	68.20	-10.37	14.66	3	Horizontal	138	1.50	-				
PK	15.5479G	59.42	74.00	-14.58	16.08	3	Horizontal	98	1.70	-				
AV	15.54058G	45.89	54.00	-8.11	16.10	3	Horizontal	98	1.70	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

10/06/2019

5200MHz_TX



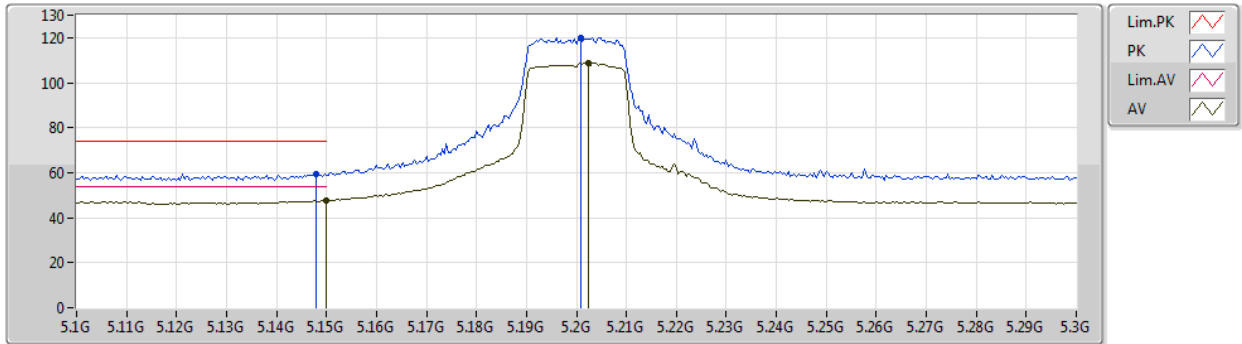
EUT_Z_4TX
Setting 29
02-J-5-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1204G	62.47	74.00	-11.53	7.88	3	Vertical	271	2.01	-				
AV	5.1468G	48.30	54.00	-5.70	7.94	3	Vertical	271	2.01	-				
PK	5.1956G	124.24	Inf	-Inf	8.06	3	Vertical	271	2.01	-				
AV	5.1976G	112.18	Inf	-Inf	8.06	3	Vertical	271	2.01	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

10/06/2019

5200MHz_TX



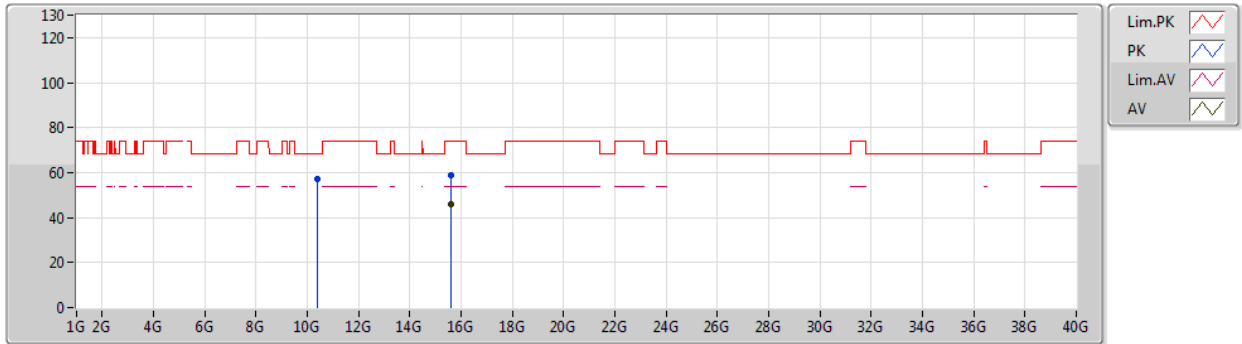
EUT_Z_4TX
Setting 29
02-J-5-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.148G	59.47	74.00	-14.53	7.94	3	Horizontal	285	1.52	-				
AV	5.15G	47.54	54.00	-6.46	7.94	3	Horizontal	285	1.52	-				
PK	5.2008G	119.84	Inf	-Inf	8.06	3	Horizontal	285	1.52	-				
AV	5.2024G	108.84	Inf	-Inf	8.06	3	Horizontal	285	1.52	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

10/06/2019

5200MHz_TX



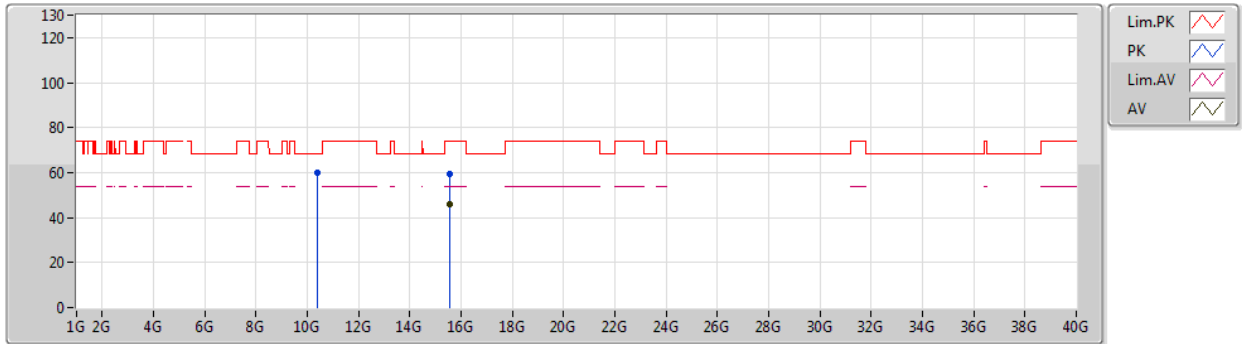
EUT_Z_4TX
Setting 29
02-J-5
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.3973G	57.20	68.20	-11.00	14.63	3	Vertical	144	1.68	-				
PK	15.5964G	59.06	74.00	-14.94	15.92	3	Vertical	223	2.26	-				
AV	15.58896G	45.70	54.00	-8.30	15.93	3	Vertical	223	2.26	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

10/06/2019

5200MHz_TX



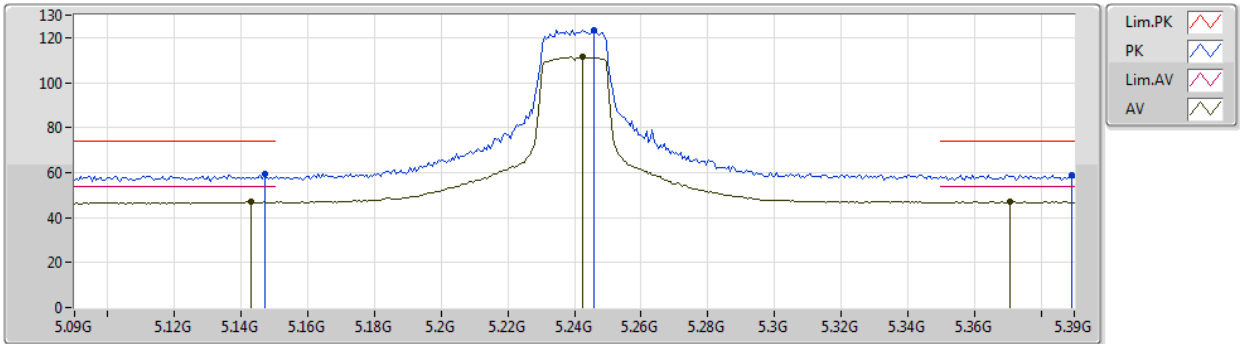
EUT_Z_4TX
Setting 29
02-J-5
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.40276G	60.20	68.20	-8.00	14.64	3	Horizontal	139	1.54	-				
PK	15.56506G	59.53	74.00	-14.47	15.94	3	Horizontal	146	1.53	-				
AV	15.56512G	45.80	54.00	-8.20	15.94	3	Horizontal	146	1.53	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

10/06/2019

5240MHz_TX



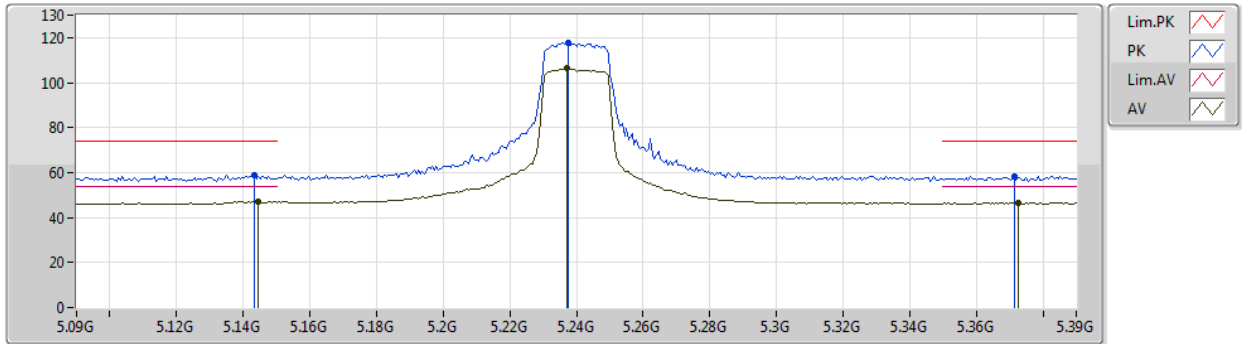
EUT_Z_4TX
Setting 29
02-J-5-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.147G	59.46	74.00	-14.54	7.94	3	Vertical	273	1.98	-
AV	5.1428G	46.90	54.00	-7.10	7.94	3	Vertical	273	1.98	-
PK	5.246G	123.24	Inf	-Inf	8.13	3	Vertical	273	1.98	-
AV	5.2424G	111.34	Inf	-Inf	8.12	3	Vertical	273	1.98	-
PK	5.3894G	59.07	74.00	-14.93	8.33	3	Vertical	273	1.98	-
AV	5.3708G	47.09	54.00	-6.91	8.30	3	Vertical	273	1.98	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

10/06/2019

5240MHz_TX



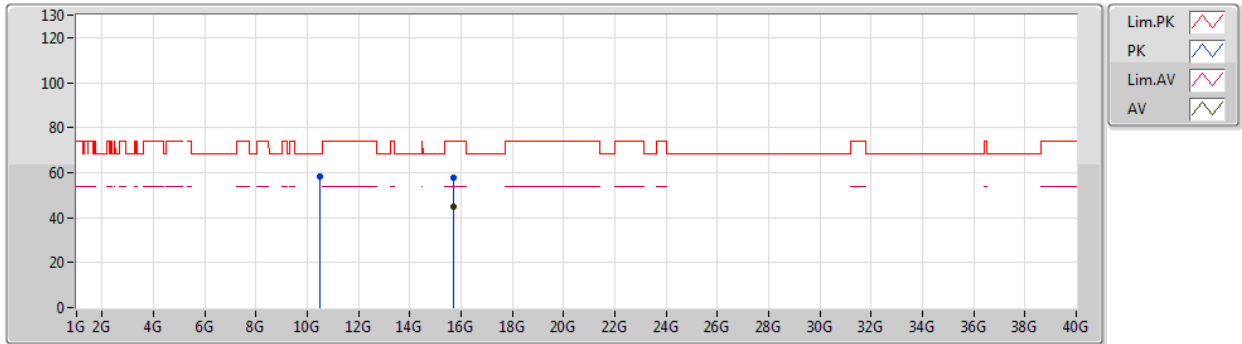
EUT_Z_4TX
Setting 29
02-J-5-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1434G	58.61	74.00	-15.39	7.94	3	Horizontal	277	1.56	-
AV	5.1446G	47.04	54.00	-6.96	7.94	3	Horizontal	277	1.56	-
PK	5.2376G	117.66	Inf	-Inf	8.12	3	Horizontal	277	1.56	-
AV	5.237G	106.20	Inf	-Inf	8.11	3	Horizontal	277	1.56	-
PK	5.3714G	58.41	74.00	-15.59	8.30	3	Horizontal	277	1.56	-
AV	5.3726G	46.53	54.00	-7.47	8.30	3	Horizontal	277	1.56	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

10/06/2019

5240MHz_TX



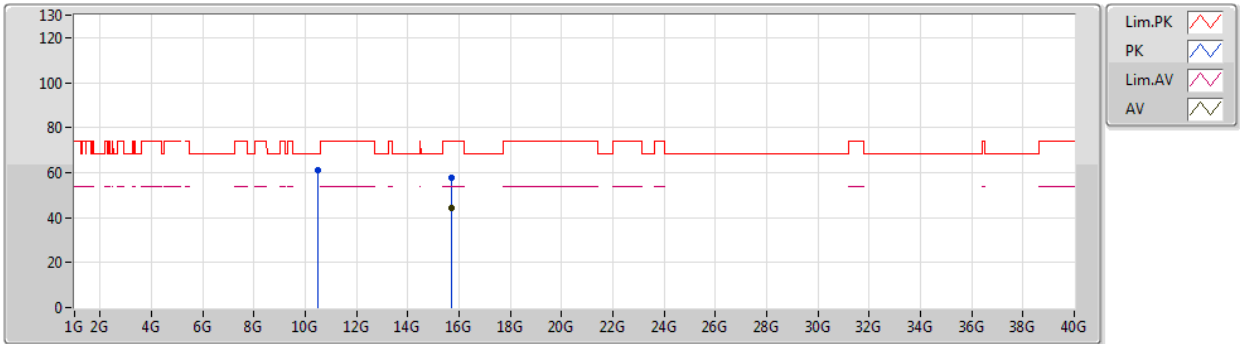
EUT_Z_4TX
Setting 29
02-J-5
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.47634G	58.12	68.20	-10.08	14.59	3	Vertical	173	1.39	-				
PK	15.72684G	57.82	74.00	-16.18	15.58	3	Vertical	243	2.16	-				
AV	15.71964G	44.59	54.00	-9.41	15.60	3	Vertical	243	2.16	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

10/06/2019

5240MHz_TX



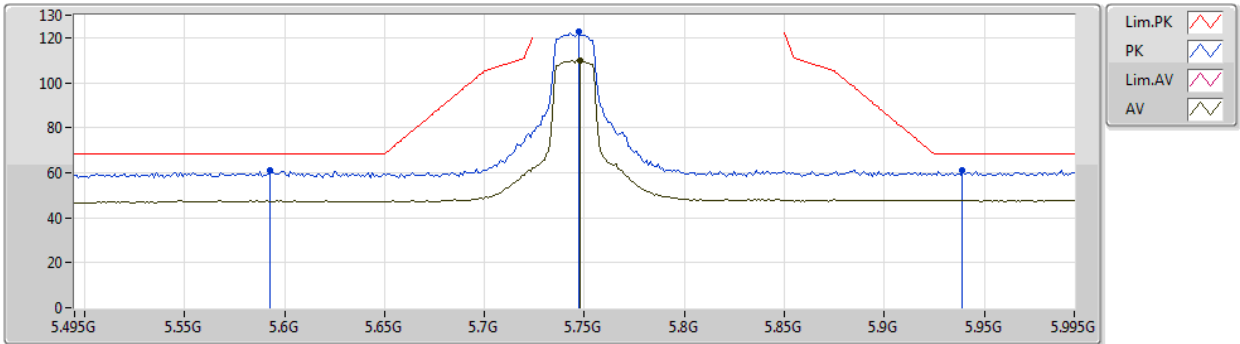
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Setting 29
02-J-5
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.47736G	61.12	68.20	-7.08	14.59	3	Horizontal	139	1.60	-				
PK	15.71586G	57.96	74.00	-16.04	15.61	3	Horizontal	351	1.64	-				
AV	15.70824G	44.54	54.00	-9.46	15.63	3	Horizontal	351	1.64	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2019

5745MHz_TX



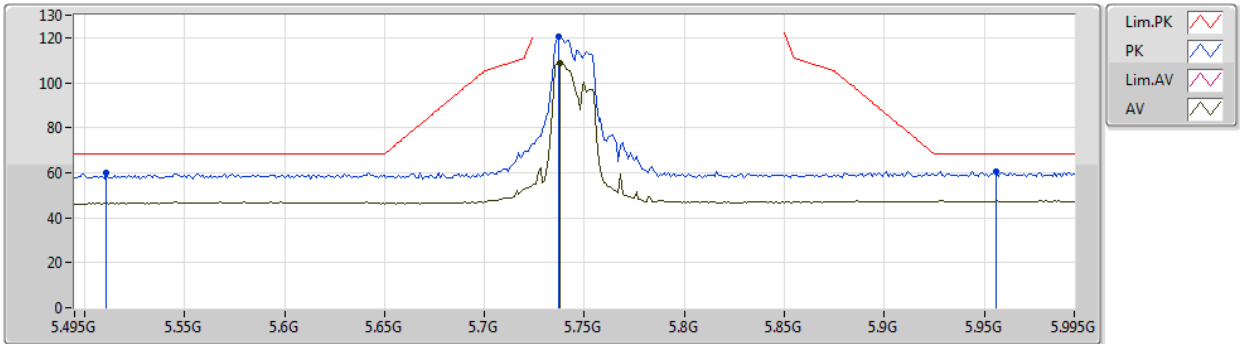
EUT_Z_2TX
Setting 26
01-S-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.593G	60.81	68.20	-7.39	5.62	3	Vertical	119	1.44	-
PK	5.747G	122.65	Inf	-Inf	5.84	3	Vertical	119	1.44	-
AV	5.748G	109.77	Inf	-Inf	5.85	3	Vertical	119	1.44	-
PK	5.939G	60.88	68.20	-7.32	6.88	3	Vertical	119	1.44	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2019

5745MHz_TX



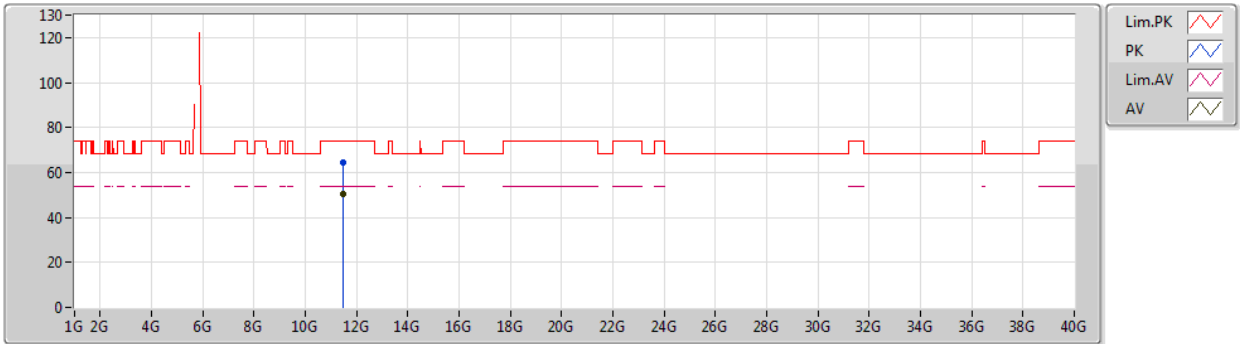
EUT_Z_2TX
Setting 26
01-S-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.511G	59.84	68.20	-8.36	5.41	3	Horizontal	163	1.53	-
PK	5.737G	120.51	Inf	-Inf	5.81	3	Horizontal	163	1.53	-
AV	5.738G	108.88	Inf	-Inf	5.83	3	Horizontal	163	1.53	-
PK	5.956G	60.79	68.20	-7.41	6.96	3	Horizontal	163	1.53	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2019

5745MHz_TX



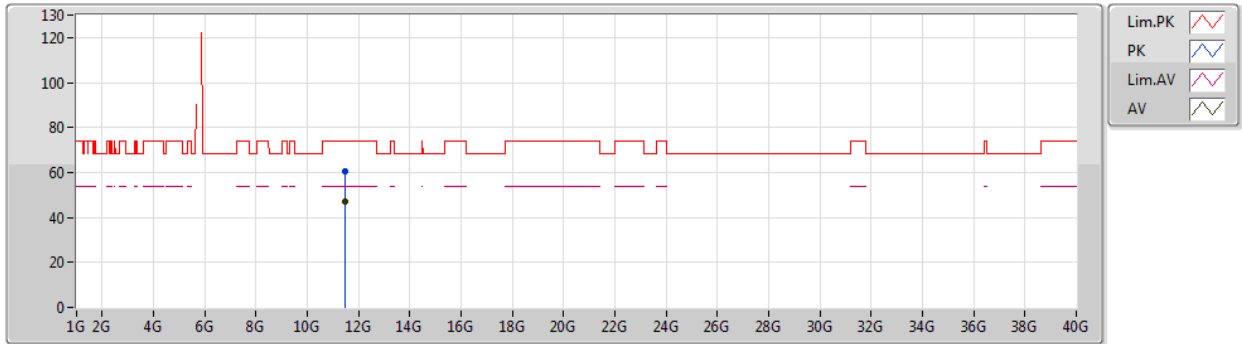
EUT_Z_2TX
Setting 26
01-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.49048G	64.26	74.00	-9.74	11.93	3	Vertical	172	2.76	-				
AV	11.4916G	50.53	54.00	-3.47	11.93	3	Vertical	172	2.76	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2019

5745MHz_TX



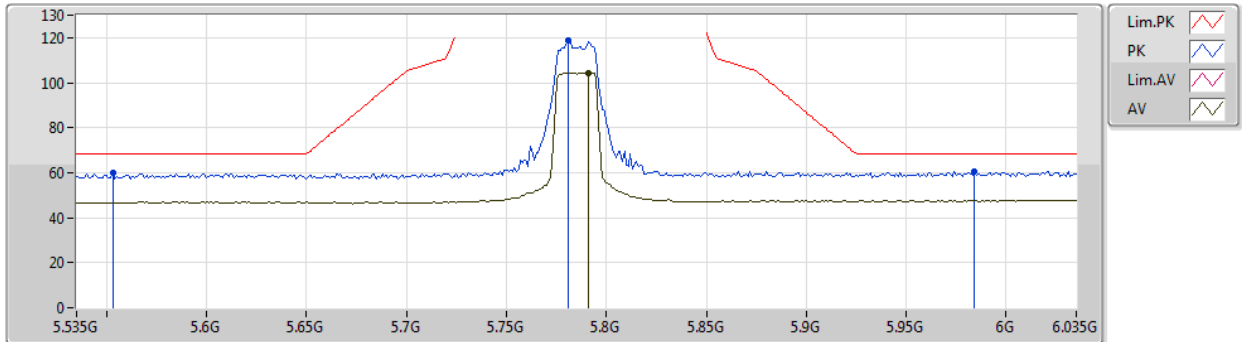
EUT_Z_2TX
Setting 26
01-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.48752G	60.30	74.00	-13.70	11.93	3	Horizontal	129	1.75	-				
AV	11.49144G	46.89	54.00	-7.11	11.93	3	Horizontal	129	1.75	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2019

5785MHz_TX



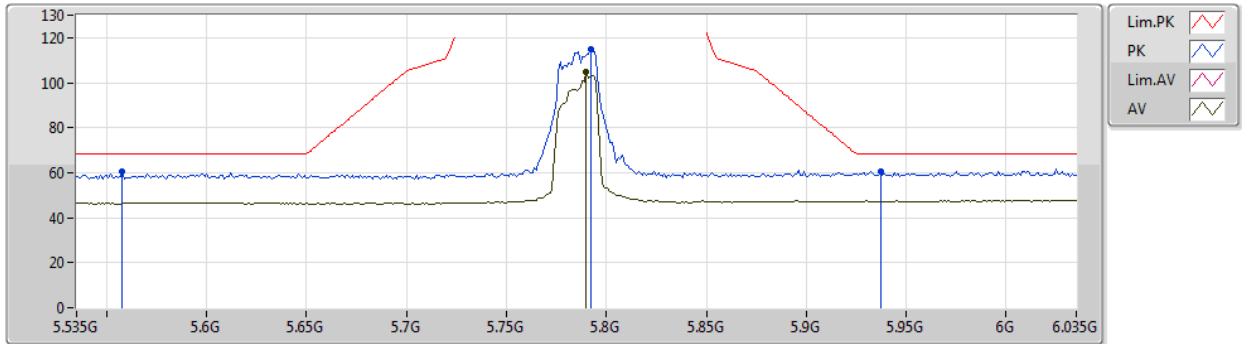
EUT_Z_2TX
Setting 26
01-S-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.553G	59.87	68.20	-8.33	5.52	3	Vertical	119	1.49	-
PK	5.781G	118.69	Inf	-Inf	5.91	3	Vertical	119	1.49	-
AV	5.791G	104.49	Inf	-Inf	5.94	3	Vertical	119	1.49	-
PK	5.984G	60.77	68.20	-7.43	7.07	3	Vertical	119	1.49	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2019

5785MHz_TX



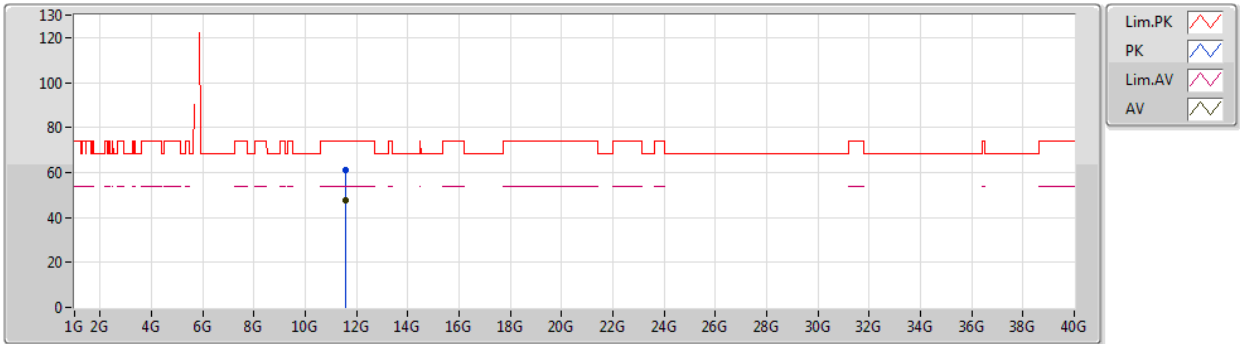
EUT_Z_2TX
Setting 26
01-S-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.558G	60.48	68.20	-7.72	5.54	3	Horizontal	142	1.50	-
PK	5.792G	115.05	Inf	-Inf	5.94	3	Horizontal	142	1.50	-
AV	5.79G	104.79	Inf	-Inf	5.94	3	Horizontal	142	1.50	-
PK	5.937G	60.68	68.20	-7.52	6.86	3	Horizontal	142	1.50	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2019

5785MHz_TX



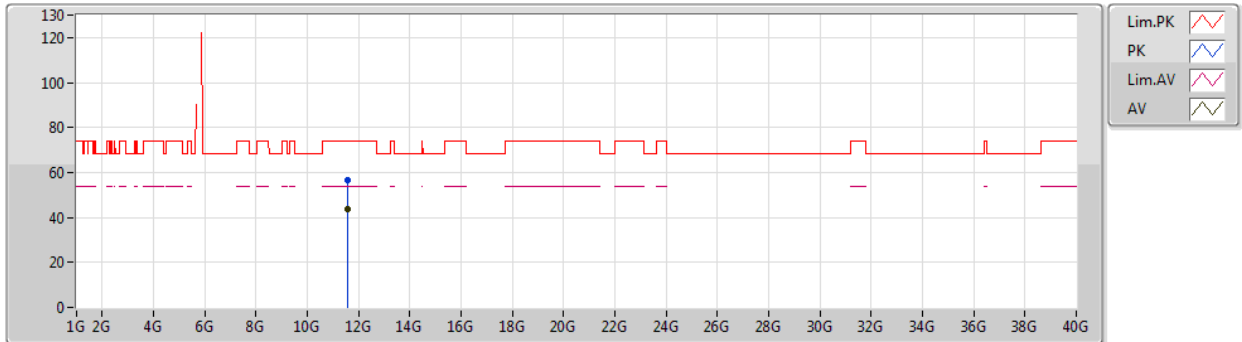
EUT_Z_2TX
Setting 26
01-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.57068G	61.06	74.00	-12.94	11.95	3	Vertical	174	2.53	-				
AV	11.56536G	47.61	54.00	-6.39	11.96	3	Vertical	174	2.53	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2019

5785MHz_TX



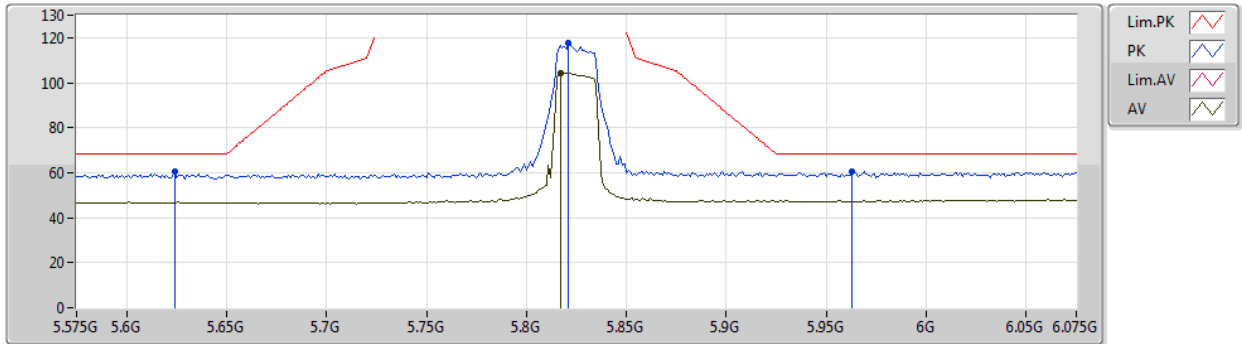
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Setting 26
01-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.57224G	56.44	74.00	-17.56	11.95	3	Horizontal	133	1.81	-				
AV	11.57088G	43.83	54.00	-10.17	11.95	3	Horizontal	133	1.81	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2019

5825MHz_TX



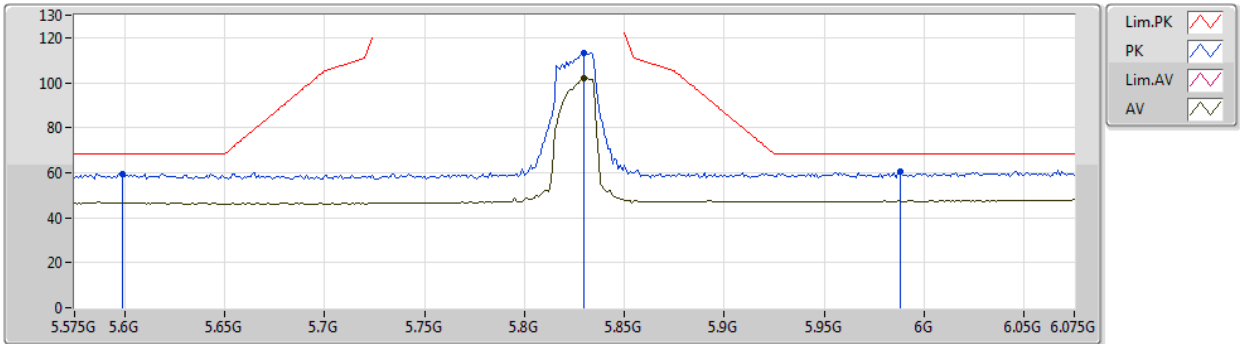
EUT_Z_2TX
Setting 26
01-S-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.624G	60.47	68.20	-7.73	5.66	3	Vertical	114	1.48	-				
PK	5.821G	117.56	Inf	-Inf	6.12	3	Vertical	114	1.48	-				
AV	5.817G	104.26	Inf	-Inf	6.08	3	Vertical	114	1.48	-				
PK	5.963G	60.71	68.20	-7.49	6.99	3	Vertical	114	1.48	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2019

5825MHz_TX



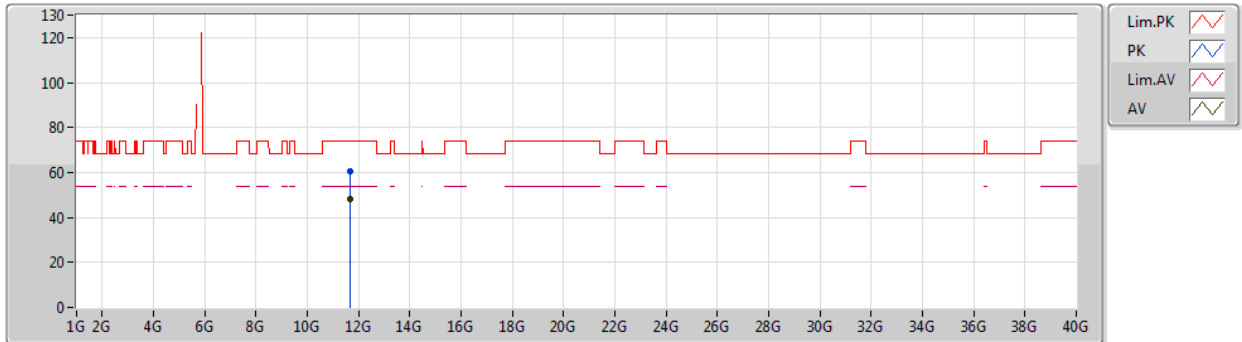
EUT_Z_2TX
Setting 26
01-S-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.599G	59.39	68.20	-8.81	5.64	3	Horizontal	141	1.47	-				
PK	5.83G	112.99	Inf	-Inf	6.18	3	Horizontal	141	1.47	-				
AV	5.83G	101.79	Inf	-Inf	6.18	3	Horizontal	141	1.47	-				
PK	5.988G	60.27	68.20	-7.93	7.09	3	Horizontal	141	1.47	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2019

5825MHz_TX



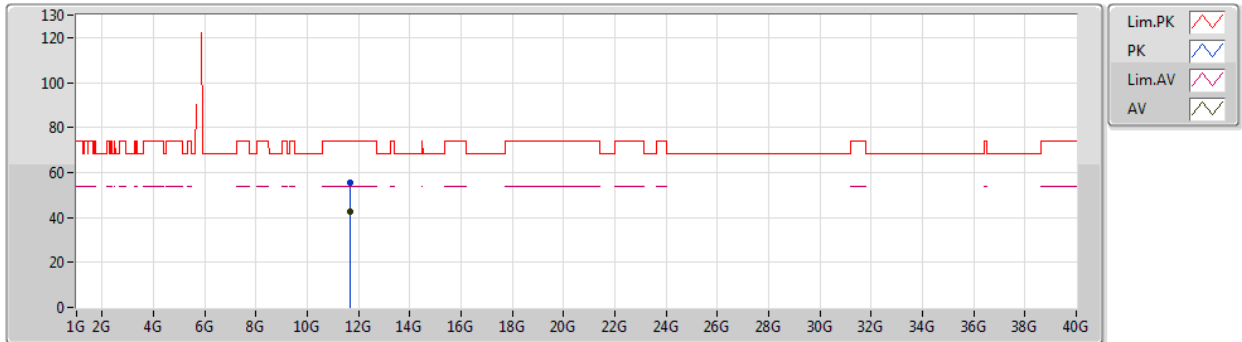
EUT_Z_2TX
Setting 26
01-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.65124G	60.47	74.00	-13.53	11.99	3	Vertical	174	2.78	-				
AV	11.65004G	48.39	54.00	-5.61	11.99	3	Vertical	174	2.78	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2019

5825MHz_TX



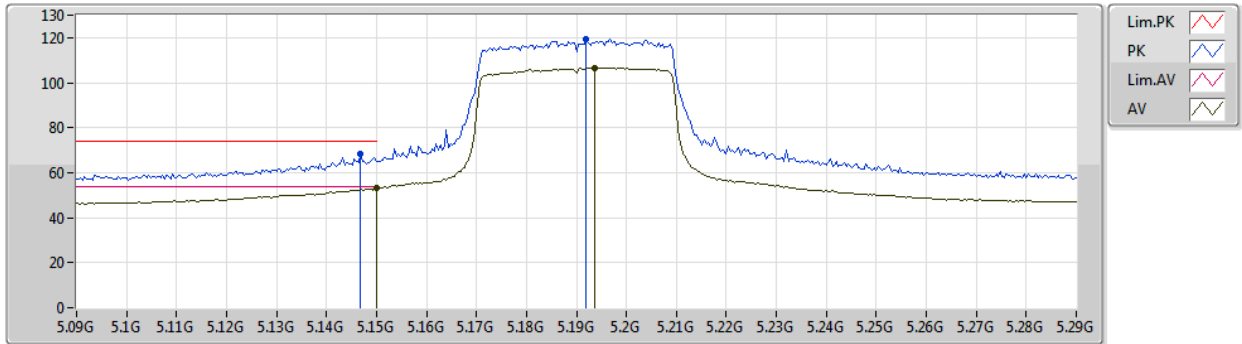
EUT_Z_2TX
Setting 26
01-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.65028G	55.61	74.00	-18.39	11.99	3	Horizontal	194	1.50	-				
AV	11.65004G	42.51	54.00	-11.49	11.99	3	Horizontal	194	1.50	-				

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

13/06/2019

5190MHz_TX



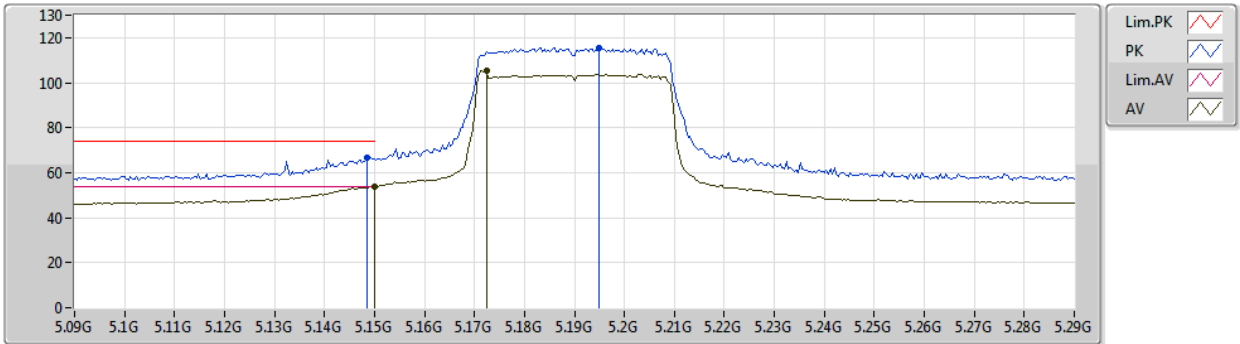
EUT_Z_4TX
Setting 27
02-J-5-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1468G	68.40	74.00	-5.60	7.94	3	Vertical	275	1.99	-				
AV	5.15G	53.36	54.00	-0.64	7.94	3	Vertical	275	1.99	-				
PK	5.192G	119.38	Inf	-Inf	8.04	3	Vertical	275	1.99	-				
AV	5.1936G	106.66	Inf	-Inf	8.04	3	Vertical	275	1.99	-				

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

13/06/2019

5190MHz_TX



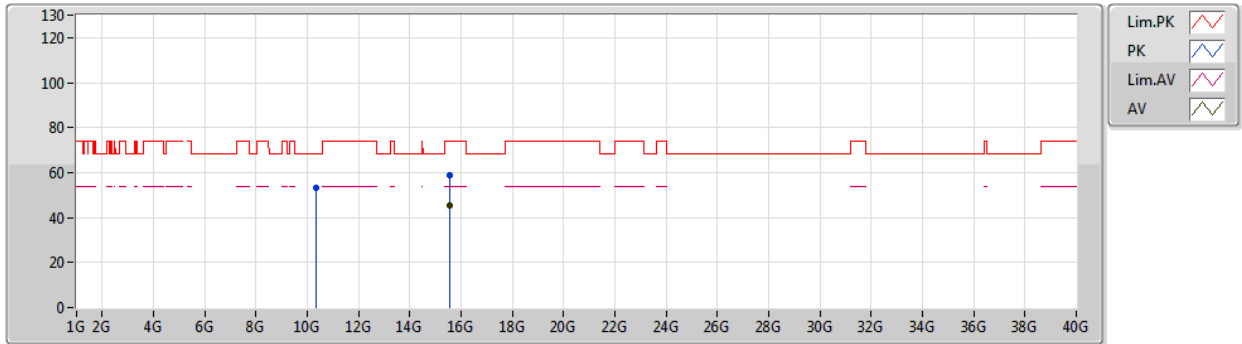
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Setting 27
02-J-5-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1484G	66.77	74.00	-7.23	7.94	3	Horizontal	284	1.59	-				
AV	5.15G	53.95	54.00	-0.05	7.94	3	Horizontal	284	1.59	-				
PK	5.1948G	115.50	Inf	-Inf	8.05	3	Horizontal	284	1.59	-				
AV	5.1724G	105.59	Inf	-Inf	8.00	3	Horizontal	284	1.59	-				

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

13/06/2019

5190MHz_TX



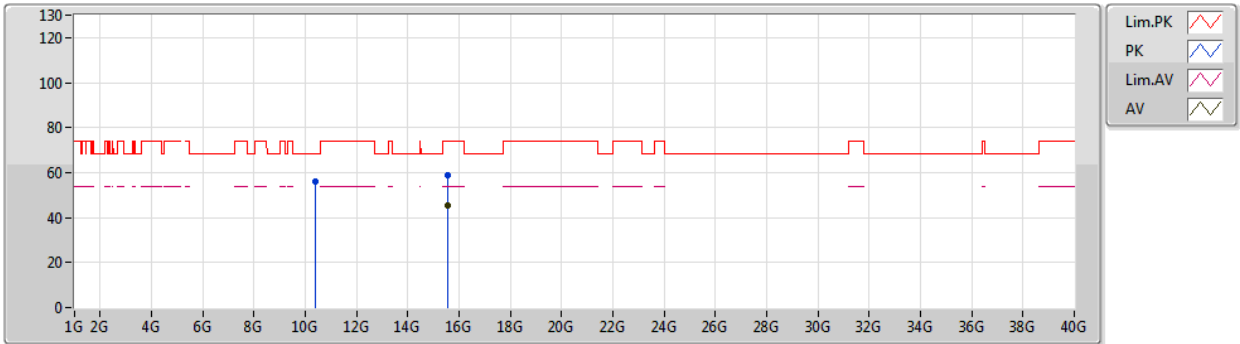
EUT_Z_4TX
Setting 27
02-J-5
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.3632G	53.41	68.20	-14.79	14.66	3	Vertical	198	2.26	-				
PK	15.5633G	58.94	74.00	-15.06	16.02	3	Vertical	274	1.07	-				
AV	15.5689G	45.63	54.00	-8.37	16.00	3	Vertical	274	1.07	-				

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

13/06/2019

5190MHz_TX



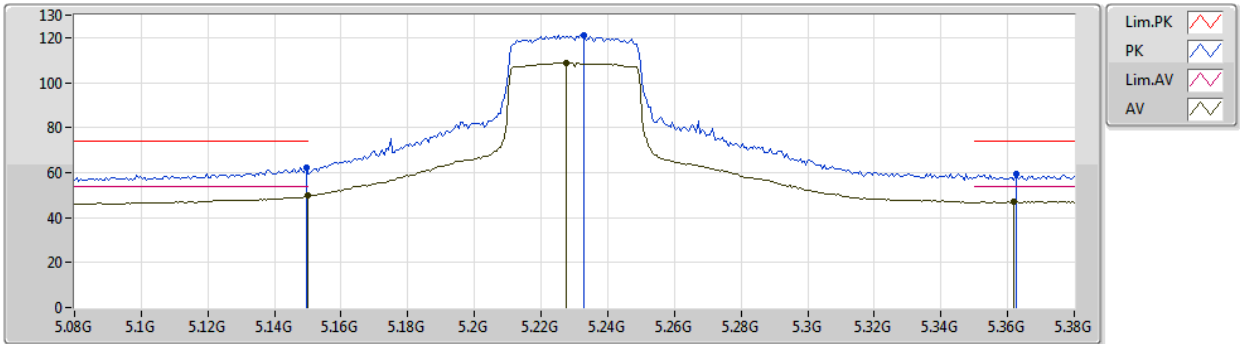
EUT_Z_4TX
Setting 27
02-J-5
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.3815G	55.78	68.20	-12.42	14.65	3	Horizontal	140	1.49	-				
PK	15.5785G	58.67	74.00	-15.33	15.97	3	Horizontal	122	2.12	-				
AV	15.5457G	45.45	54.00	-8.55	16.06	3	Horizontal	122	2.12	-				

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

13/06/2019

5230MHz_TX



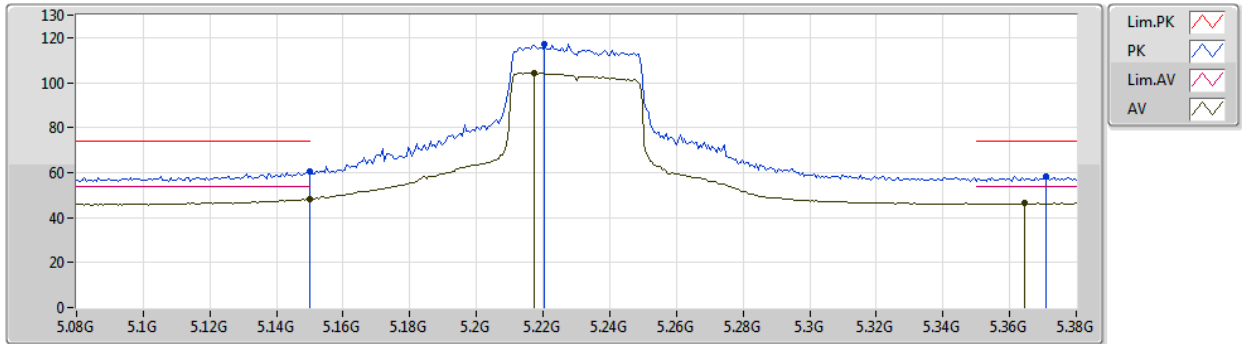
EUT_Z_4TX
Setting 29
02-J-5-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1496G	62.28	74.00	-11.72	7.94	3	Vertical	276	1.46	-				
AV	5.15G	49.73	54.00	-4.27	7.94	3	Vertical	276	1.46	-				
PK	5.233G	120.88	Inf	-Inf	8.11	3	Vertical	276	1.46	-				
AV	5.2276G	108.77	Inf	-Inf	8.10	3	Vertical	276	1.46	-				
PK	5.3626G	59.39	74.00	-14.61	8.29	3	Vertical	276	1.46	-				
AV	5.362G	47.10	54.00	-6.90	8.29	3	Vertical	276	1.46	-				

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

13/06/2019

5230MHz_TX



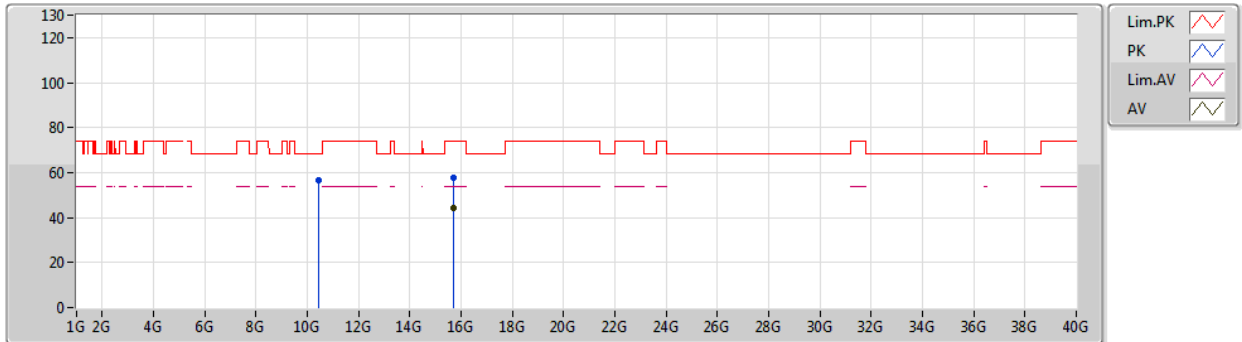
EUT_Z_4TX
Setting 29
02-J-5-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.15G	60.40	74.00	-13.60	7.94	3	Horizontal	277	1.48	-				
AV	5.15G	48.45	54.00	-5.55	7.94	3	Horizontal	277	1.48	-				
PK	5.2204G	117.21	Inf	-Inf	8.09	3	Horizontal	277	1.48	-				
AV	5.2174G	104.24	Inf	-Inf	8.09	3	Horizontal	277	1.48	-				
PK	5.371G	58.36	74.00	-15.64	8.30	3	Horizontal	277	1.48	-				
AV	5.3644G	46.41	54.00	-7.59	8.29	3	Horizontal	277	1.48	-				

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

13/06/2019

5230MHz_TX



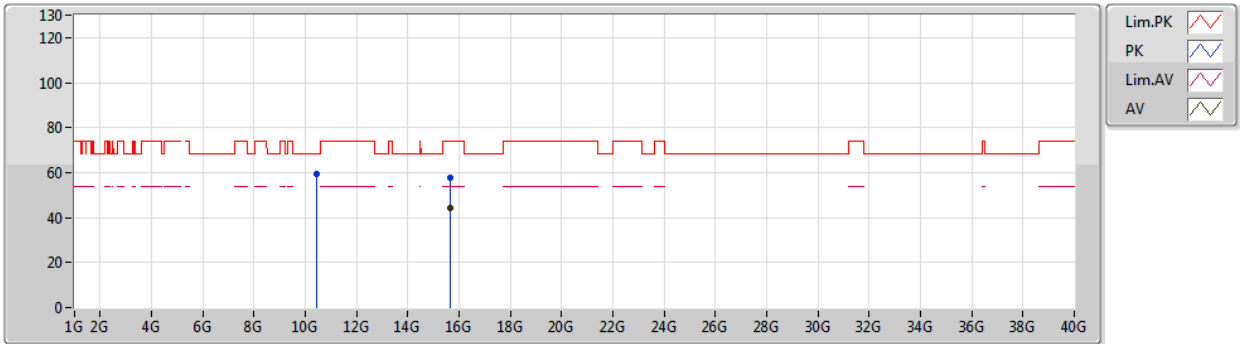
EUT_Z_4TX
Setting 29
02-J-5
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.4644G	56.57	68.20	-11.63	14.59	3	Vertical	211	1.56	-				
PK	15.6987G	57.48	74.00	-16.52	15.65	3	Vertical	137	2.19	-				
AV	15.6899G	44.47	54.00	-9.53	15.68	3	Vertical	137	2.19	-				

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

13/06/2019

5230MHz_TX



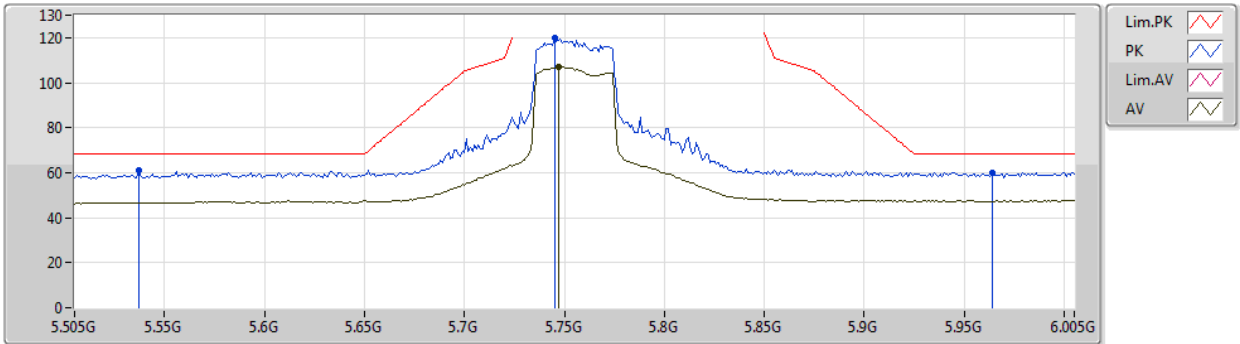
EUT_Z_4TX
Setting 29
02-J-5
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.4424G	59.40	68.20	-8.80	14.61	3	Horizontal	142	1.63	-				
PK	15.6699G	57.54	74.00	-16.46	15.73	3	Horizontal	316	2.15	-				
AV	15.6656G	44.43	54.00	-9.57	15.74	3	Horizontal	316	2.15	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2019

5755MHz_TX



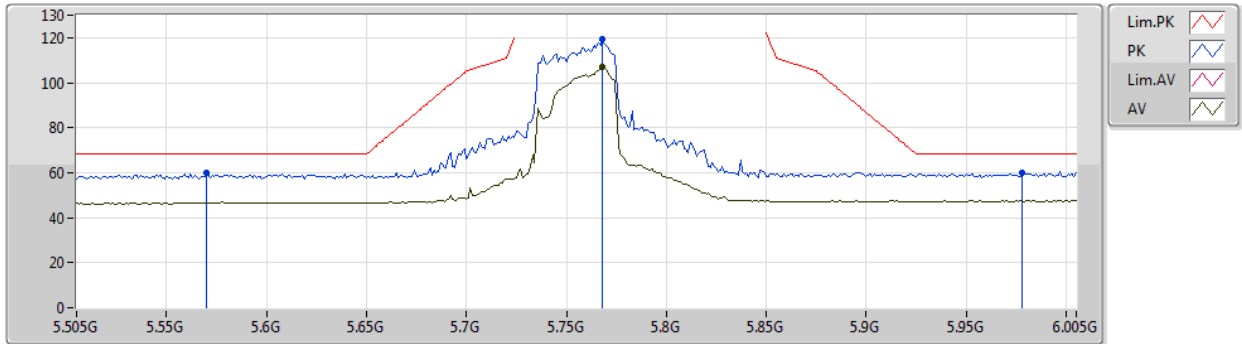
EUT_Z_2TX
Setting 26
01-S-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.537G	61.32	68.20	-6.88	5.47	3	Vertical	118	1.49	-
PK	5.745G	119.76	Inf	-Inf	5.84	3	Vertical	118	1.49	-
AV	5.747G	106.81	Inf	-Inf	5.84	3	Vertical	118	1.49	-
PK	5.964G	60.15	68.20	-8.05	6.99	3	Vertical	118	1.49	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2019

5755MHz_TX



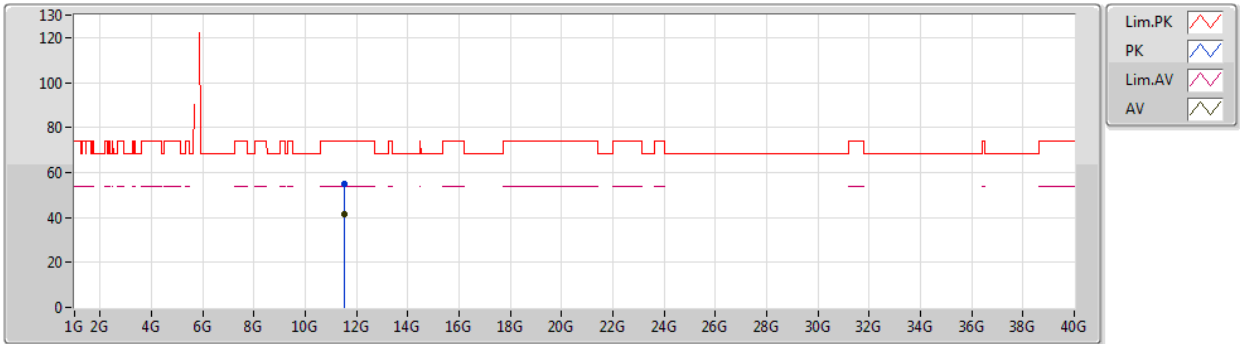
EUT_Z_2TX
Setting 26
01-S-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.57G	59.87	68.20	-8.33	5.57	3	Horizontal	159	1.50	-				
PK	5.768G	119.09	Inf	-Inf	5.90	3	Horizontal	159	1.50	-				
AV	5.768G	106.77	Inf	-Inf	5.90	3	Horizontal	159	1.50	-				
PK	5.978G	59.71	68.20	-8.49	7.04	3	Horizontal	159	1.50	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2019

5755MHz_TX



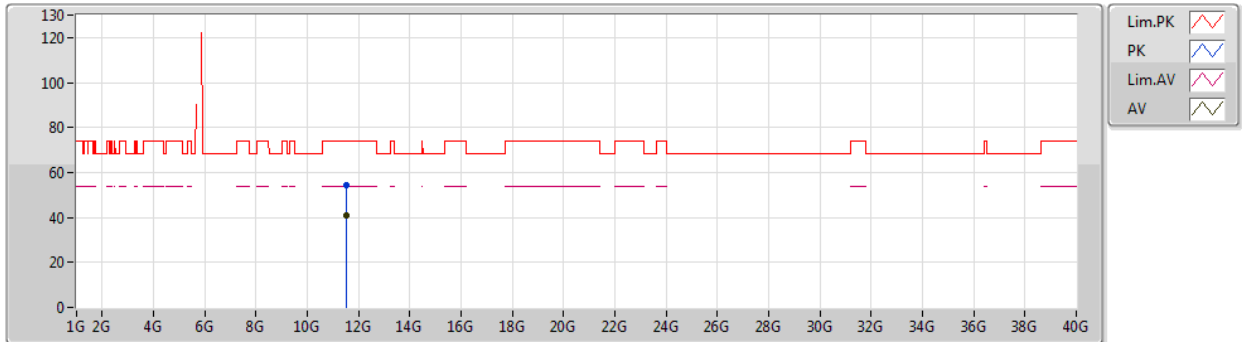
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Setting 26
01-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.50448G	54.90	74.00	-19.10	11.93	3	Vertical	54	1.49	-				
AV	11.50512G	41.29	54.00	-12.71	11.93	3	Vertical	54	1.49	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2019

5755MHz_TX



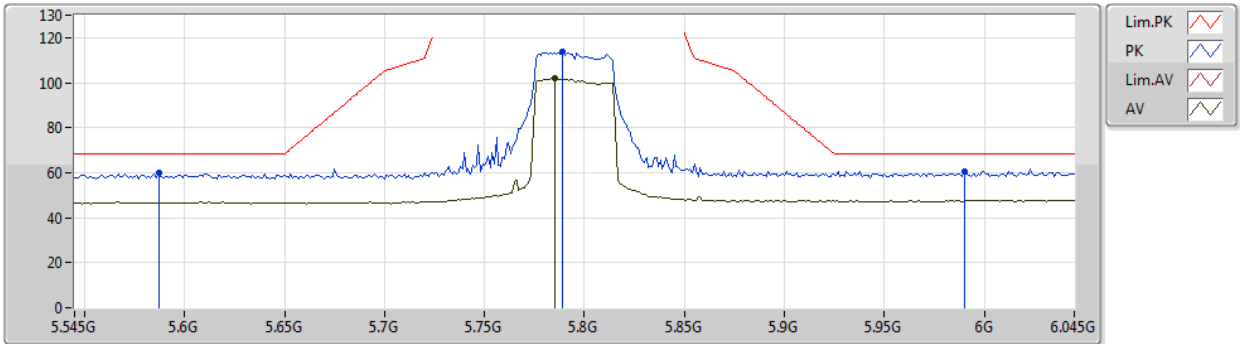
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Setting 26
01-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.50656G	54.24	74.00	-19.76	11.93	3	Horizontal	186	2.09	-				
AV	11.50128G	41.05	54.00	-12.95	11.93	3	Horizontal	186	2.09	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2019

5795MHz_TX



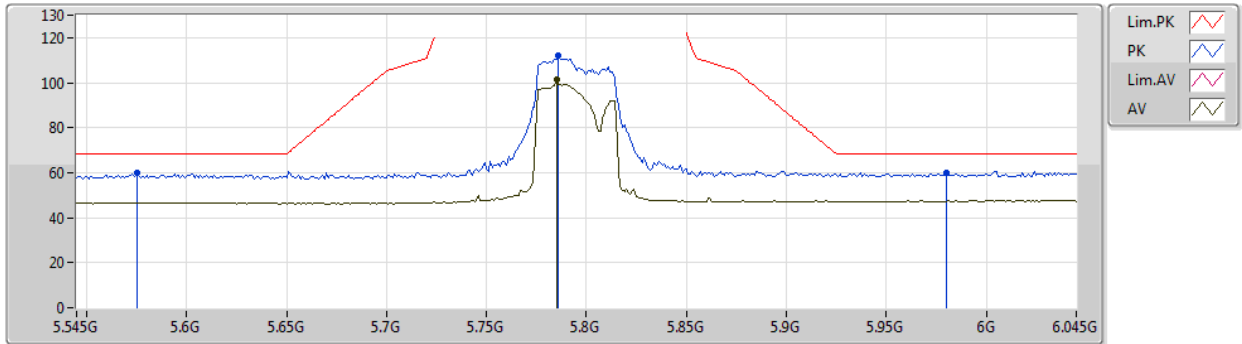
EUT_Z_2TX
Setting 26
01-S-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.587G	59.82	68.20	-8.38	5.60	3	Vertical	116	1.50	-				
PK	5.789G	113.56	Inf	-Inf	5.94	3	Vertical	116	1.50	-				
AV	5.785G	101.85	Inf	-Inf	5.92	3	Vertical	116	1.50	-				
PK	5.99G	60.79	68.20	-7.41	7.10	3	Vertical	116	1.50	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2019

5795MHz_TX



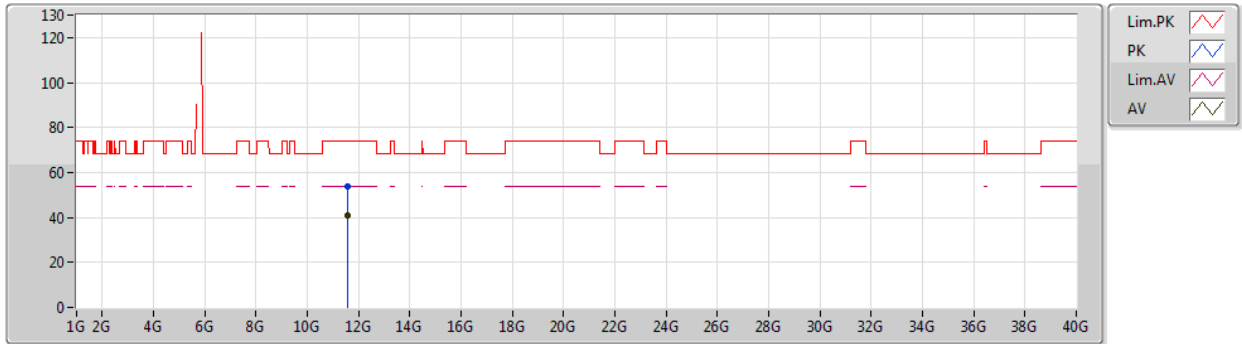
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Setting 26
01-S-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.575G	59.76	68.20	-8.44	5.58	3	Horizontal	205	1.50	-				
PK	5.786G	111.94	Inf	-Inf	5.92	3	Horizontal	205	1.50	-				
AV	5.785G	101.68	Inf	-Inf	5.92	3	Horizontal	205	1.50	-				
PK	5.98G	59.97	68.20	-8.23	7.06	3	Horizontal	205	1.50	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2019

5795MHz_TX



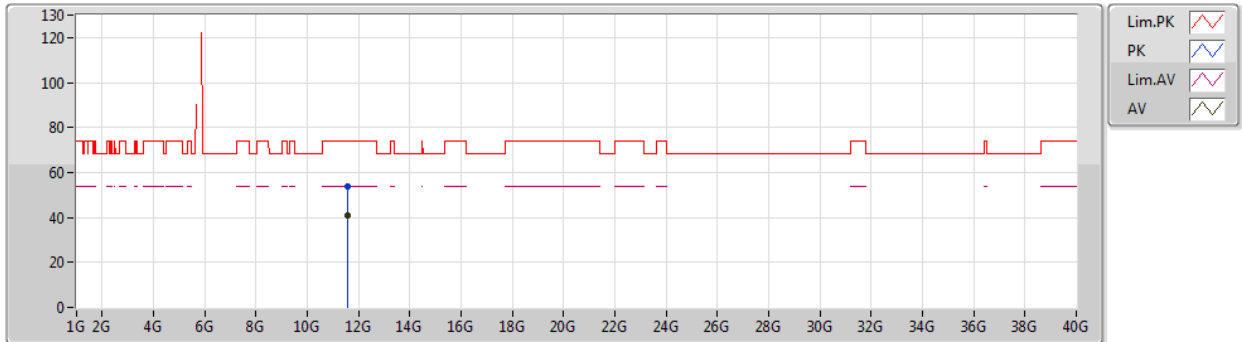
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Setting 26
01-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.59348G	53.98	74.00	-20.02	11.97	3	Vertical	53	2.14	-				
AV	11.58048G	41.07	54.00	-12.93	11.97	3	Vertical	53	2.14	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2019

5795MHz_TX



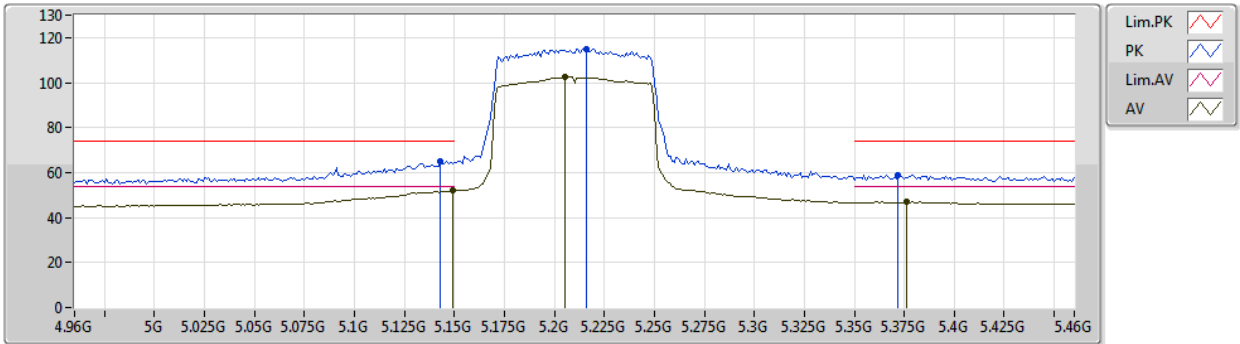
EUT Z_2TX
Setting 26
01-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.5892G	53.99	74.00	-20.01	11.97	3	Horizontal	143	1.02	-				
AV	11.59776G	40.93	54.00	-13.07	11.97	3	Horizontal	143	1.02	-				

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

13/06/2019

5210MHz_TX



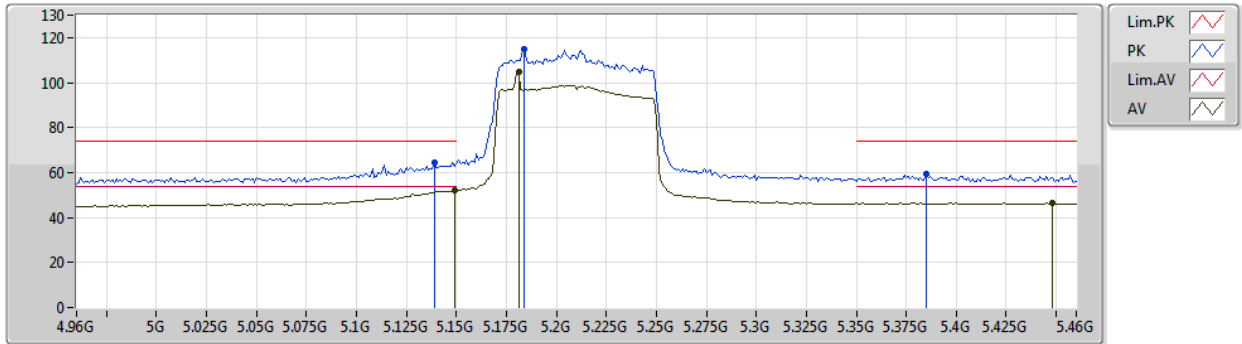
EUT_Z_4TX
Setting 26
02-J-5-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.143G	64.94	74.00	-9.06	7.94	3	Vertical	273	2.09	-				
AV	5.149G	52.06	54.00	-1.94	7.94	3	Vertical	273	2.09	-				
PK	5.216G	115.05	Inf	-Inf	8.08	3	Vertical	273	2.09	-				
AV	5.205G	102.48	Inf	-Inf	8.07	3	Vertical	273	2.09	-				
PK	5.372G	58.75	74.00	-15.25	8.30	3	Vertical	273	2.09	-				
AV	5.376G	47.05	54.00	-6.95	8.31	3	Vertical	273	2.09	-				

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

13/06/2019

5210MHz_TX



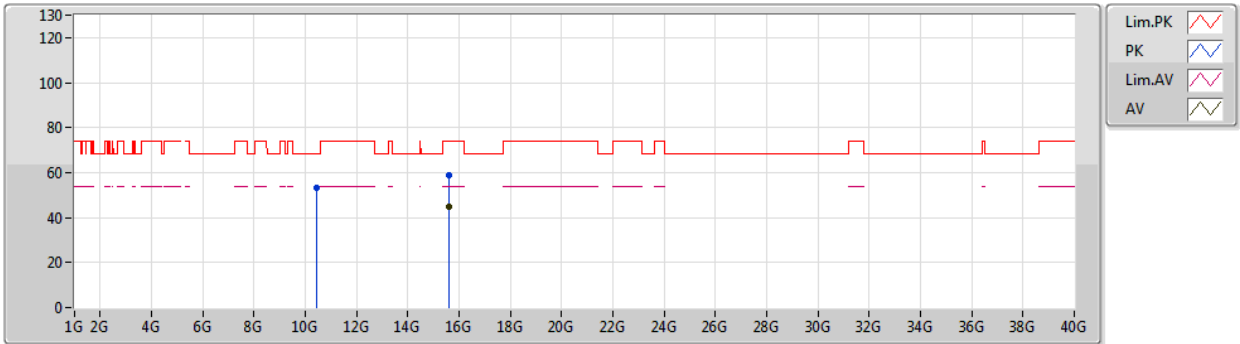
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Setting 26
02-J-5-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.139G	64.59	74.00	-9.41	7.93	3	Horizontal	287	1.49	-				
AV	5.149G	51.93	54.00	-2.07	7.94	3	Horizontal	287	1.49	-				
PK	5.184G	114.84	Inf	-Inf	8.03	3	Horizontal	287	1.49	-				
AV	5.181G	104.94	Inf	-Inf	8.02	3	Horizontal	287	1.49	-				
PK	5.385G	59.37	74.00	-14.63	8.32	3	Horizontal	287	1.49	-				
AV	5.448G	46.39	54.00	-7.61	8.42	3	Horizontal	287	1.49	-				

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

13/06/2019

5210MHz_TX



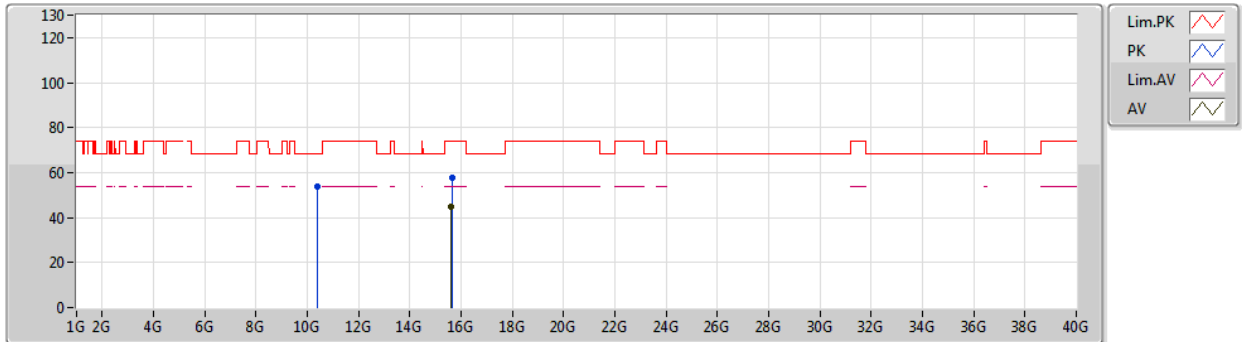
EUT_Z_4TX
Setting 26
02-J-5
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.4189G	53.07	68.20	-15.13	14.63	3	Vertical	190	2.32	-				
PK	15.624G	58.74	74.00	-15.26	15.85	3	Vertical	295	1.79	-				
AV	15.6094G	44.77	54.00	-9.23	15.88	3	Vertical	295	1.79	-				

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

13/06/2019

5210MHz_TX



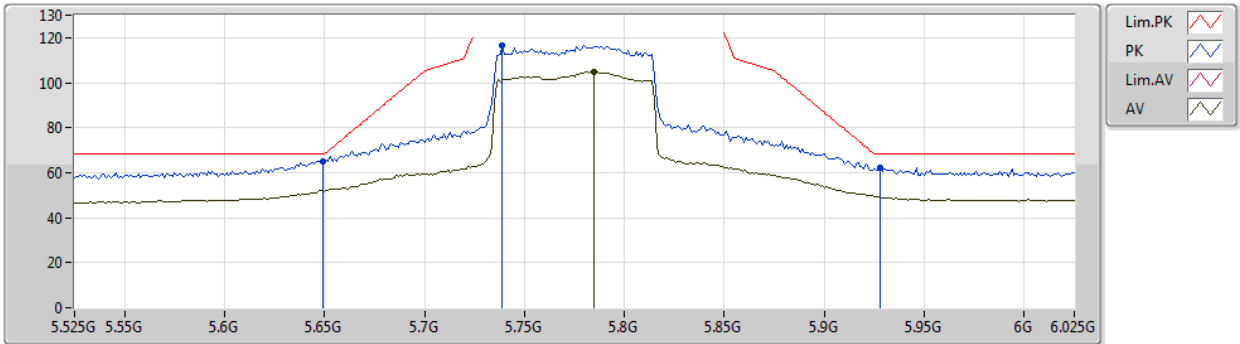
EUT_Z_4TX
Setting 26
02-J-5
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.4114G	53.78	68.20	-14.42	14.63	3	Horizontal	47	2.16	-				
PK	15.6389G	57.92	74.00	-16.08	15.81	3	Horizontal	249	1.56	-				
AV	15.6166G	44.93	54.00	-9.07	15.86	3	Horizontal	249	1.56	-				

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

29/06/2019

5775MHz_TX



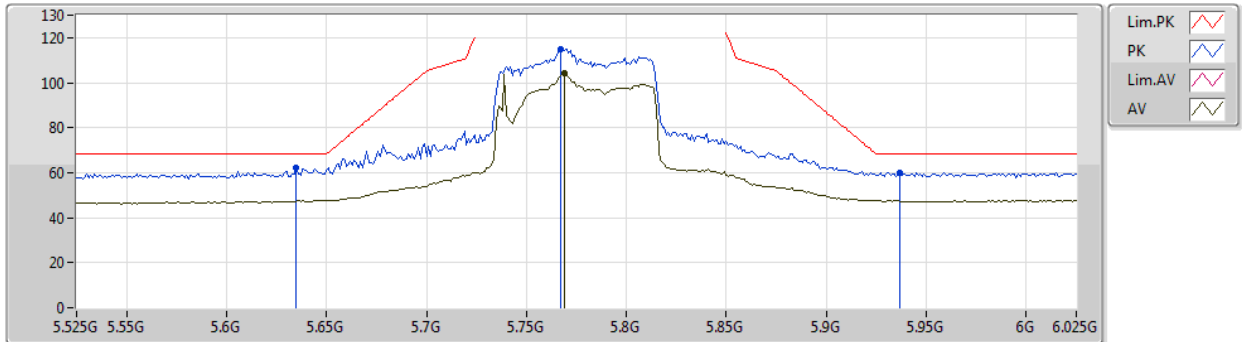
EUT_Z_2TX
Setting 26
01-S-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.649G	65.16	68.20	-3.04	5.69	3	Vertical	118	1.40	-
PK	5.739G	116.63	Inf	-Inf	5.83	3	Vertical	118	1.40	-
AV	5.785G	104.70	Inf	-Inf	5.92	3	Vertical	118	1.40	-
PK	5.928G	62.37	68.20	-5.83	6.82	3	Vertical	118	1.40	-

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

29/06/2019

5775MHz_TX



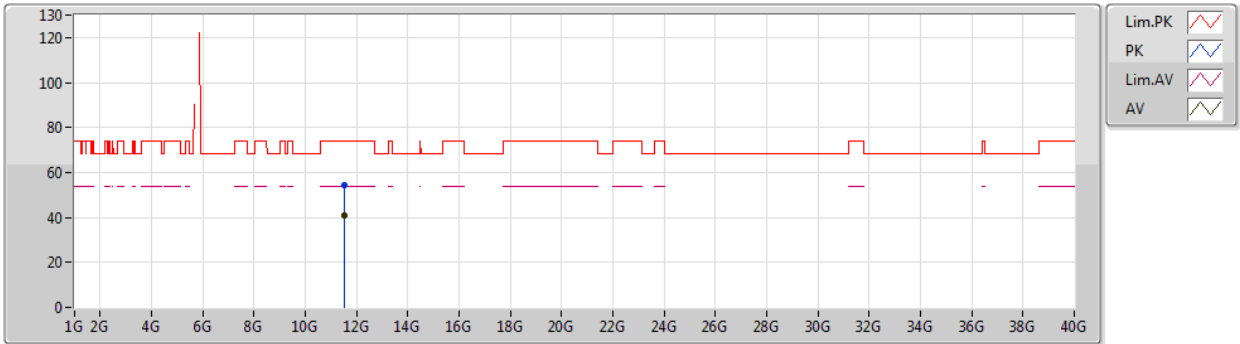
EUT_Z_2TX
Setting 26
01-S-5-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.635G	61.97	68.20	-6.23	5.67	3	Horizontal	159	1.52	-				
PK	5.767G	115.14	Inf	-Inf	5.89	3	Horizontal	159	1.52	-				
AV	5.769G	103.99	Inf	-Inf	5.90	3	Horizontal	159	1.52	-				
PK	5.937G	60.23	68.20	-7.97	6.86	3	Horizontal	159	1.52	-				

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

29/06/2019

5775MHz_TX



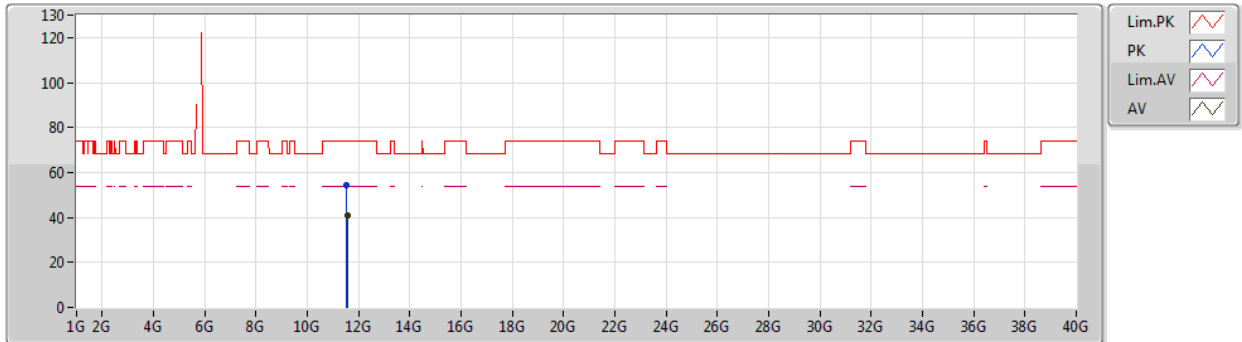
EUT_Z_2TX
Setting 26
01-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.54488G	54.10	74.00	-19.90	11.95	3	Vertical	187	1.66	-				
AV	11.54756G	40.97	54.00	-13.03	11.95	3	Vertical	187	1.66	-				

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

29/06/2019

5775MHz_TX



EUT_Z_2TX
Setting 26
01-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	11.54144G	54.09	74.00	-19.91	11.95	3	Horizontal	89	1.24	-				
AV	11.55632G	40.95	54.00	-13.05	11.96	3	Horizontal	89	1.24	-				

