



FCC RADIO TEST REPORT

FCC ID : MSQ-RTAXJ300

Equipment : AX3000 Dual Band Wi-Fi Router, AX5400 Dual Band Wi-Fi Router

Brand Name : ASUS

Model Name : RT-AX58U, RT-AX82U

Applicant : ASUSTeK COMPUTER INC.
4F, No. 150, Li-Te Rd., Peitou, Taipei 112, Taiwan

Manufacturer (1) : Datamax Electronics (DongGuan) Co., Ltd.
Niu Shan Foreign Economic Industrial Park, Dong Cheng District, Dong Guan City, Guang Dong, China

Manufacturer (2) : Compal Networking (KunShan) Co., LTD.
No. 520, Nabbang Rd., Economic & Technical Development Zone Kunshan, Jiangsu Province China

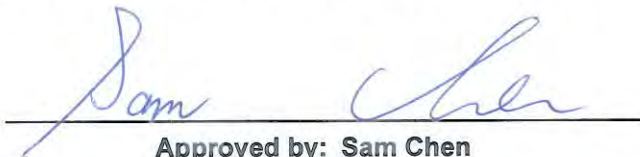
Manufacturer (3) : ARCADYAN TECHNOLOGY (VIETNAM) CO., LTD.
Ba Thien Industrial Park, Ba Hien commune, Binh Xuyen district, Vinh Phuc Province

Standard : 47 CFR FCC Part 15.407

The product was received on Jul. 12, 2019, and testing was started from Jul. 12, 2019 and completed on Aug. 02, 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 variant 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.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	12
1.3 Testing Location Information	12
1.4 Measurement Uncertainty	12
2 Test Configuration of EUT	13
2.1 Test Channel Mode	13
2.2 The Worst Case Measurement Configuration.....	15
2.3 EUT Operation during Test	15
2.4 Accessories	16
2.5 Support Equipment.....	16
2.6 Test Setup Diagram	17
3 Transmitter Test Result	19
3.1 Emission Bandwidth	19
3.2 Maximum Conducted Output Power	21
3.3 Peak Power Spectral Density.....	23
3.4 Unwanted Emissions.....	26
4 Test Equipment and Calibration Data	29
Appendix A. Test Results of Emission Bandwidth	
Appendix B. Test Results of Maximum Conducted Output Power	
Appendix C. Test Results of Peak Power Spectral Density	
Appendix D. Test Results of Unwanted Emissions	
Appendix E. Test Photos	
Photographs of EUT v01	



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	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Viola Huang



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20), ax (HEW20)	5260-5320	52-64 [4]
5250-5350	n (HT40), ac (VHT40), ax (HEW40)	5270-5310	54-62 [2]
5250-5350	ac (VHT80), ax (HEW80)	5290	58 [1]
5150-5350	ac (VHT160), ax (HEW160)	5250	50 [1]

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	2TX / 4TX
5.25-5.35GHz	802.11n HT20	20	2TX / 4TX
5.25-5.35GHz	802.11n HT20-BF	20	2TX / 4TX
5.25-5.35GHz	802.11ac VHT20	20	2TX / 4TX
5.25-5.35GHz	802.11ac VHT20-BF	20	2TX / 4TX
5.25-5.35GHz	802.11ax HEW20	20	2TX / 4TX
5.25-5.35GHz	802.11ax HEW20-BF	20	2TX / 4TX
5.25-5.35GHz	802.11n HT40	40	2TX / 4TX
5.25-5.35GHz	802.11n HT40-BF	40	2TX / 4TX
5.25-5.35GHz	802.11ac VHT40	40	2TX / 4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	2TX / 4TX
5.25-5.35GHz	802.11ax HEW40	40	2TX / 4TX
5.25-5.35GHz	802.11ax HEW40-BF	40	2TX / 4TX
5.25-5.35GHz	802.11ac VHT80	80	2TX / 4TX
5.25-5.35GHz	802.11ac VHT80-BF	80	2TX / 4TX
5.25-5.35GHz	802.11ax HEW80	80	2TX / 4TX
5.25-5.35GHz	802.11ax HEW80-BF	80	2TX / 4TX
5.15-5.35GHz	802.11ac VHT160	160	2TX / 4TX
5.15-5.35GHz	802.11ac VHT160-BF	160	2TX / 4TX
5.15-5.35GHz	802.11ax HEW160	160	2TX / 4TX
5.15-5.35GHz	802.11ax HEW160-BF	160	2TX / 4TX



Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ HEW20, HEW40, HEW80 and HEW160 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

Set	Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	1	PSA	RFDPA161314IMLB701	Dipole Antenna	I-PEX	Note 1
	2	PSA	RFDPA161311IM5B702	Dipole Antenna	I-PEX	
	3	PSA	RFDPA161310IM5B701	Dipole Antenna	I-PEX	
	4	PSA	RFDPA161316IMLB701	Dipole Antenna	I-PEX	
2	1	M.gear	C660-510468-A	Dipole Antenna	I-PEX	
	2	M.gear	C660-510469-A	Dipole Antenna	I-PEX	
	3	M.gear	C660-510470-A	Dipole Antenna	I-PEX	
	4	M.gear	C660-510471-A	Dipole Antenna	I-PEX	
3	1	M.gear	C660-510472-A	Dipole Antenna	I-PEX	
	2	M.gear	C660-510473-A	Dipole Antenna	I-PEX	
	3	M.gear	C660-510474-A	Dipole Antenna	I-PEX	
	4	M.gear	C660-510475-A	Dipole Antenna	I-PEX	
4	1	PSA	RFDPA171314IMLB701	Dipole Antenna	I-PEX	
	2	PSA	RFDPA171311IM5B702	Dipole Antenna	I-PEX	
	3	PSA	RFDPA171310IM5B702	Dipole Antenna	I-PEX	
	4	PSA	RFDPA171316IMLB701	Dipole Antenna	I-PEX	



Note 1:

Set	Ant.	Port			2.4GHz	5GHz Band 1	5GHz Band 2	5GHz Band 4
		2.4G 2TX	5G 2TX	5G 4TX				
1	1	2	-	2	1.71	1.75	1.89	1.70
	2	-	1	1	-	1.93	1.93	1.95
	3	-	2	4	-	1.75	1.85	1.89
	4	1	-	3	1.63	1.92	1.88	1.87
2	1	2	-	2	1.61	1.74	1.84	1.67
	2	-	1	1	-	1.76	1.8	1.87
	3	-	2	4	-	1.66	1.72	1.84
	4	1	-	3	1.6	1.88	1.82	1.86
3	1	2	-	2	1.7	1.71	1.85	1.68
	2	-	1	1	-	1.68	1.73	1.85
	3	-	2	4	-	1.63	1.74	1.77
	4	1	-	3	1.62	1.67	1.74	1.85
4	1	2	-	2	1.7	1.74	1.74	1.68
	2	-	1	1	-	1.86	1.9	1.9
	3	-	2	4	-	1.48	1.6	1.88
	4	1	-	3	1.61	1.63	1.71	1.86

Note 2: The above information was declared by manufacturer.

Note 3: The EUT has four sets of antennas and there are four antennas for each set.

Set 1~4 are the same type antenna. Only the highest gain Set 1 antenna was selected to test and record in this report.

For 2.4GHz WLAN function**IEEE 802.11b/g/n/VHT/ax mode (2TX/2RX):**

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

Port 1 and port 2 could transmit/receive simultaneously.

For 5GHz WLAN function**IEEE 802.11a/n/ac/ax mode (2TX, 4TX/4RX):**

For 2TX

Port 1 and port 2 can be used as transmitting antenna.

Port 1 and port 2 could transmit simultaneously.

For 4TX, 4RX

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

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

1.1.3 Mode Test Duty Cycle

For 2T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW20-BF	0.975	0.11	1.148m	1k
802.11ax HEW40-BF	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW80-BF	0.974	0.11	1.243m	1k
802.11ax HEW160-BF	0.976	0.11	1.243m	1k

For 2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.954	0.2	2.923m	1k
802.11ax HEW40	0.94	0.27	4.365m	300
802.11ax HEW80	0.967	0.15	5.348m	300
802.11ax HEW160	0.816	0.88	4.832m	300

For 4T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW20-BF	0.975	0.11	1.148m	1k
802.11ax HEW40-BF	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW80-BF	0.974	0.11	1.243m	1k
802.11ax HEW160-BF	0.976	0.11	1.243m	1k

For 4T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF	0.954	0.2	2.923m	1k
802.11ax HEW40-BF	0.94	0.27	4.365m	300
802.11ax HEW80-BF	0.967	0.15	5.348m	300
802.11ax HEW160-BF	0.816	0.88	4.832m	300

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	For IEEE 802.11n/ax/VHT in 2.4GHz and IEEE 802.11n/ac/ax in 5GHz.			
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
TPC Function	☒	With TPC	☐	Without TPC
Test Software Version	Mtool V3.1.0.3			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

The Equipment and model names in the following table are all refer to the identical product.

Equipment	Model Name	Description
AX3000 Dual Band Wi-Fi Router, AX5400 Dual Band Wi-Fi Router	RT-AX82U, RT-AX58U	All the equipment and models are identical, the different equipment and model names served as marketing strategy.

From the above table, equipment: AX3000 Dual Band Wi-Fi Router and model: RT-AX82U was selected as representative model for the test and its data was recorded in this report.

1.1.6 Table for SKU information

SKU	Material	Housing	Brand	P/N
SKU 1	PJ-45 port was covered by plastic.	There are two different housings.	LAN port : ETSWAP / Mingtek	LAN port : NS773602 / HN36201CG
SKU 2	PJ-45 port was covered by metal.		WAN port : ETSWAP / Mingtek	WAN port: NS771802 / HN18101CG

1.1.7 Table for EUT supports functions

Function	Support Type
AP Router	Master
Bridge	Slave without radar detection
Repeater	Master



1.1.8 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR952922

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Adding Band 2 (5250~5350 MHz) for this device. 2. Adding 160MHz for this device.	1. Emission Bandwidth 2. Maximum Conducted Output Power 3. Peak Power Spectral Density 4. Radiated Emissions above 1GHz



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	TH02-CB	Owen Hsu	26.4~27.3°C / 61~63%	Jul. 18, 2019~Aug. 01, 2019
Radiated above 1GHz	03CH06-CB	KJ Chang	25.8~28.2°C / 63~67%	Jul. 12, 2019~Aug. 02, 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
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For 2T1S

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	82
5300MHz	82
5320MHz	82
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5260MHz	82
5300MHz	82
5320MHz	82
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5270MHz	82
5310MHz	82
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5290MHz	79
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-
5250MHz Straddle 5.15-5.25GHz	73
5250MHz Straddle 5.25-5.35GHz	73

For 2T2S

Mode	PowerSetting
802.11ax HEW20_Nss2,(MCS0)_2TX	-
5260MHz	82
5300MHz	81
5320MHz	81
802.11ax HEW40_Nss2,(MCS0)_2TX	-
5270MHz	82
5310MHz	82
802.11ax HEW80_Nss2,(MCS0)_2TX	-
5290MHz	82
802.11ax HEW160_Nss2,(MCS0)_2TX	-
5250MHz Straddle 5.15-5.25GHz	81
5250MHz Straddle 5.25-5.35GHz	81

**For 4T1S**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	63
5300MHz	63
5320MHz	63
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	62
5300MHz	61
5320MHz	62
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	62
5310MHz	62
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	62
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	72
5250MHz Straddle 5.25-5.35GHz	72

For 4T2S

Mode	PowerSetting
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-
5260MHz	69
5300MHz	69
5320MHz	69
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-
5270MHz	69
5310MHz	69
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-
5290MHz	69
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	72
5250MHz Straddle 5.25-5.35GHz	72

Note:

- ♦ After evaluating, 802.11ax mode has been evaluated to be the worst case, so it was selected to test and record in this test report.
- ♦ There are two modes of EUT for 802.11n/ax/VHT in 2.4GHz and 802.11n/ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode, after evaluating, beamforming mode has been evaluated to be the worst case, so it was selected to test and record in this test report.



2.2 The Worst Case Measurement Configuration

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode > 1GHz	CTX
1	SKU 1 (5GHz) + adapter 1

Note: The EUT only uses in Z axis.

2.3 EUT Operation during Test

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 "Lantest20" to link with the remote workstation to transmit and receive packet by Device and transmit duty cycle no less than 98%.



2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	P/N	Rating
Adapter 1	PI	AD2088320	010LF	INPUT: 100-240V ~ 50/60Hz, 0.8A OUTPUT: 19V, 1.75A
Adapter 2	PI	AD2088320	010-5LF	INPUT: 100-240V ~ 50/60Hz, 0.8A OUTPUT: 19V, 1.75A
Other				
RJ-45 cable*1, Non-shielded, 1.5m				

Note: The power adapter 1~ adapter 2 do not affect the test result of RF tests, so only adapter 1 was tested and recorded in this report.

2.5 Support Equipment

For Radiated (above 1GHz):
(For non beamforming mode)

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

(For beamforming mode)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Device	ASUS	RT-AX88U	N/A
C	NB	DELL	E4300	N/A

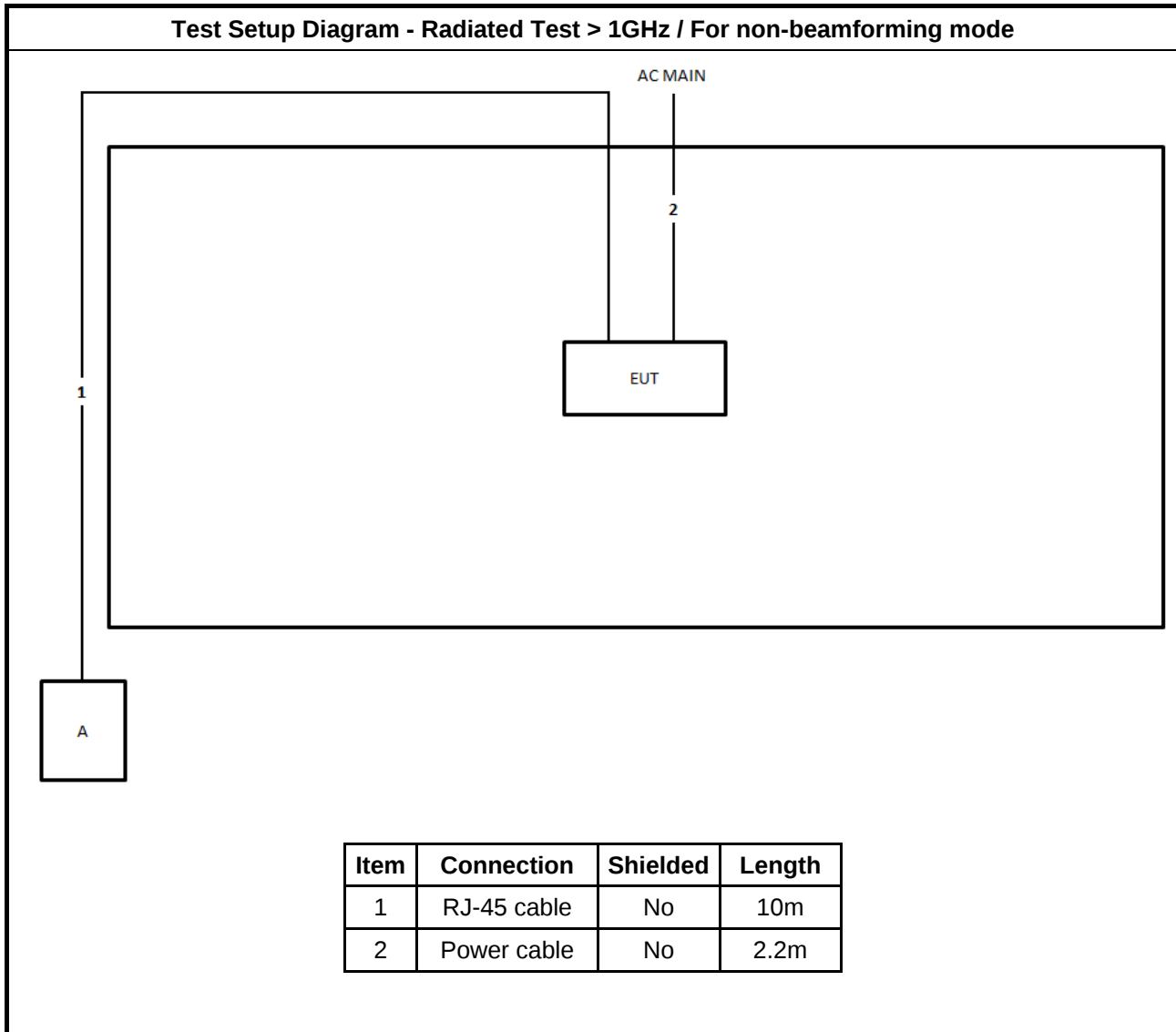
For RF Conducted:
(For non beamforming mode)

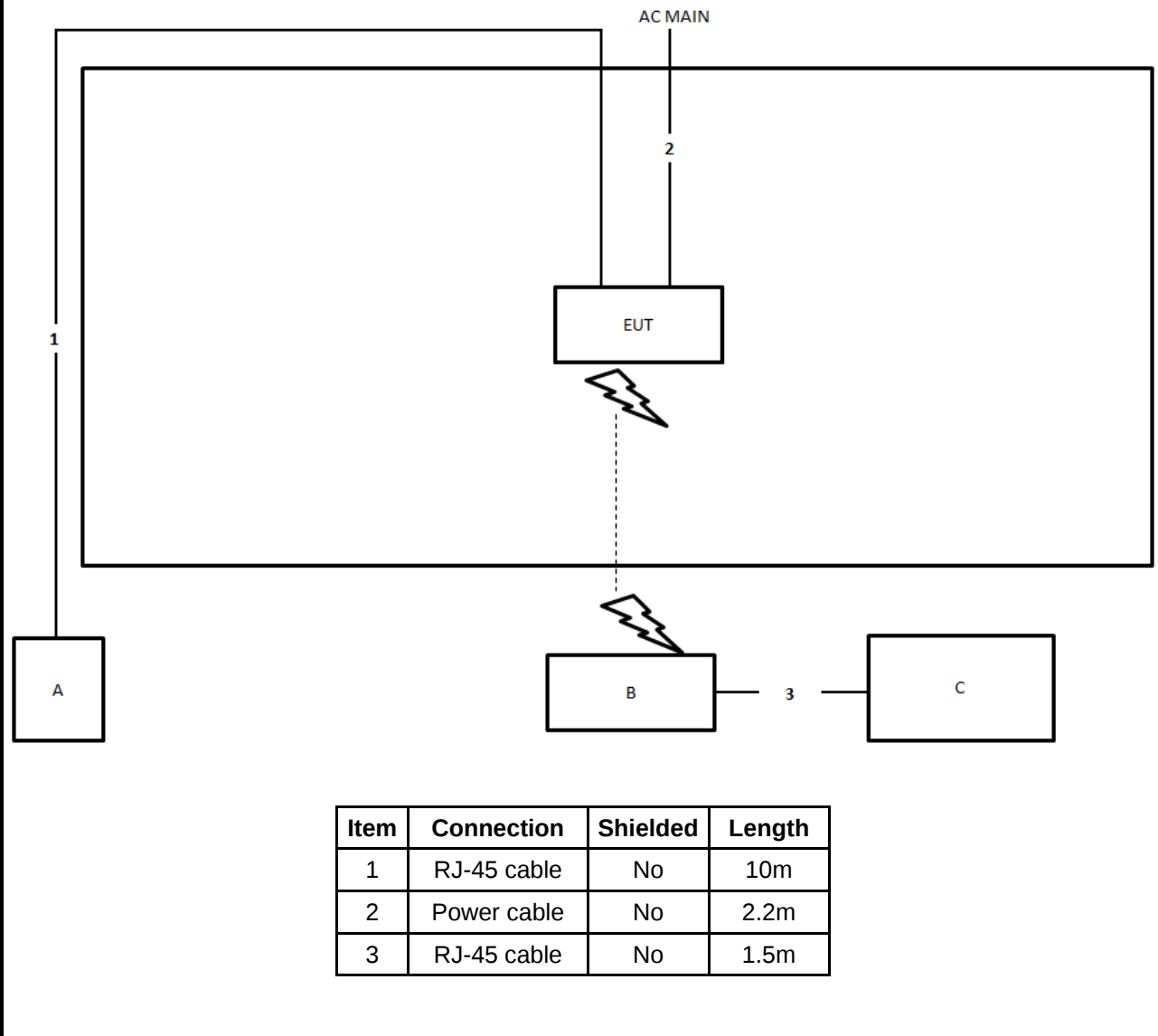
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

(For beamforming mode)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Device	ASUS	RT-AX82U	N/A

2.6 Test Setup Diagram



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




3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

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

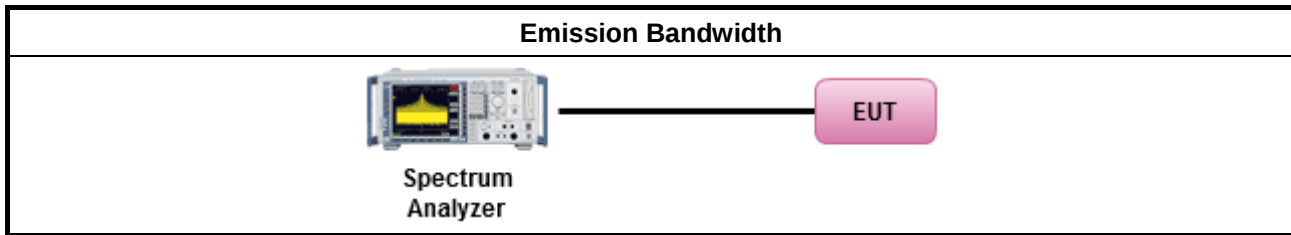
3.1.2 Measuring Instruments

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

3.1.3 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.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Conducted Output Power

3.2.1 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.	

3.2.2 Measuring Instruments

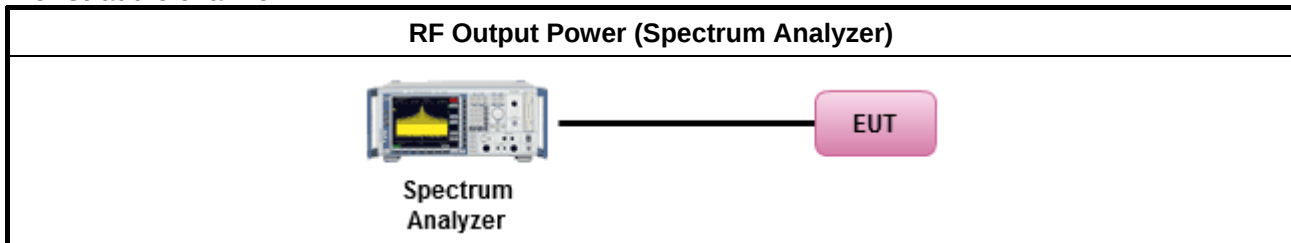
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

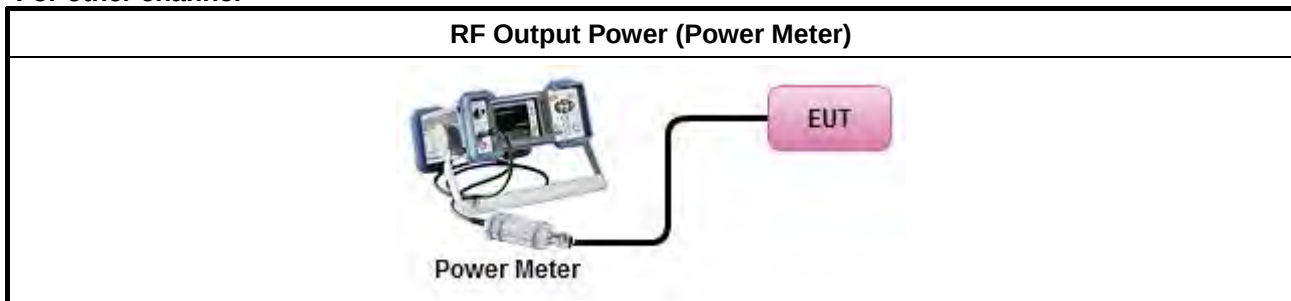
Test Method	
Maximum Conducted Output Power	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off 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]) $EIRP_{total} = P_{total} + DG$	

3.2.4 Test Setup

For straddle channel



For other channel



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Peak Power Spectral Density

3.3.1 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 he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

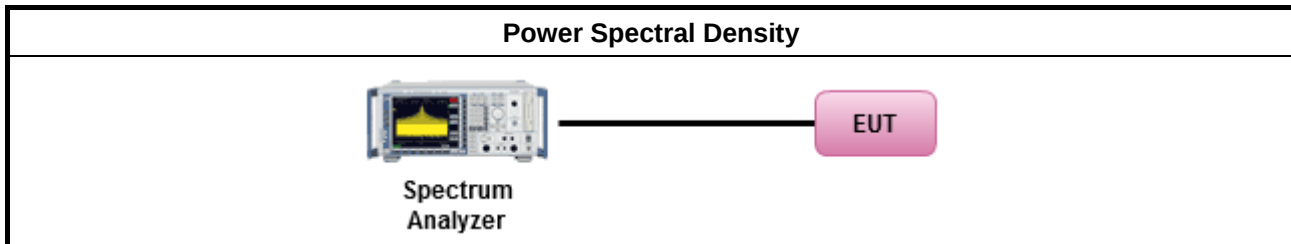
3.3.2 Measuring Instruments

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

3.3.3 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]) $EIRP_{total} = PPSD_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 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).

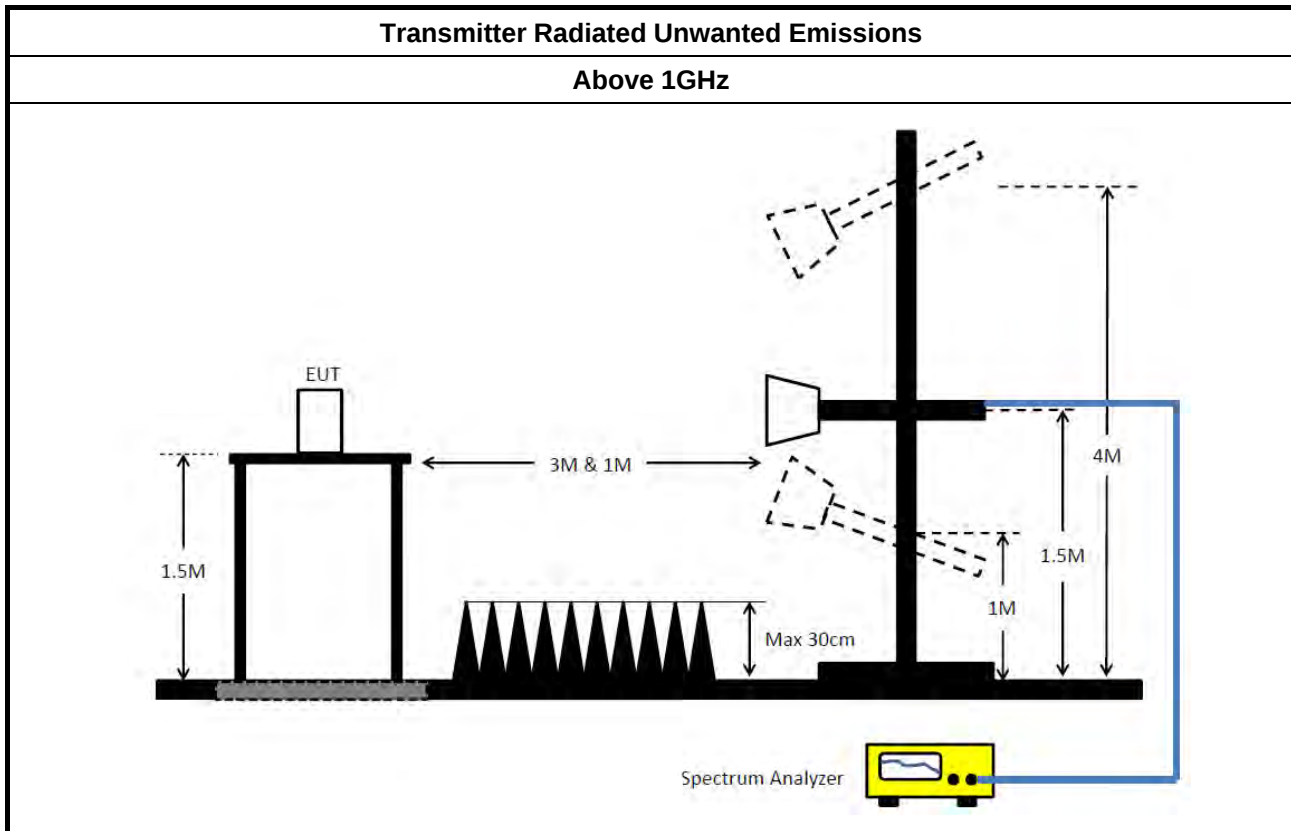
3.4.2 Measuring Instruments

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

3.4.3 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.	

3.4.4 Test Setup



3.4.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.4.6 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.

3.4.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1292	1GHz~18GHz	Jul. 20, 2018	Jul. 19, 2019	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1292	1GHz~18GHz	Jul. 17, 2019	Jul. 16, 2020	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 08, 2019	May 07, 2020	Radiation (03CH06-CB)
Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05+24	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 02, 2019	Jul. 01, 2020	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 03, 2018	Sep. 02, 2019	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 03, 2018	Sep. 02, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-3	1 GHz ~ 26.5 GHz	Oct. 24, 2018	Oct. 23, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)

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

**For 2T1S
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	81.36M	77.081M	77M1D1D	81.2M	77.001M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.6M	16.567M	16M6D1D	21.375M	16.517M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.7M	18.991M	19M0D1D	21.55M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	39.95M	37.681M	37M7D1D	39.85M	37.531M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	81.5M	76.862M	76M9D1D	81.2M	76.762M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	81.36M	77.081M	77M1D1D	81.28M	77.081M

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	-	-	-	-	-	-
5260MHz	Pass	Inf	21.375M	16.517M	21.6M	16.542M
5300MHz	Pass	Inf	21.4M	16.567M	21.475M	16.567M
5320MHz	Pass	Inf	21.425M	16.567M	21.425M	16.542M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.6M	18.991M	21.6M	18.966M
5300MHz	Pass	Inf	21.55M	18.966M	21.575M	18.941M
5320MHz	Pass	Inf	21.675M	18.966M	21.7M	18.991M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	39.85M	37.681M	39.85M	37.531M
5310MHz	Pass	Inf	39.85M	37.531M	39.95M	37.531M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	81.5M	76.762M	81.2M	76.862M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.36M	77.001M	81.2M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.36M	77.081M	81.28M	77.081M

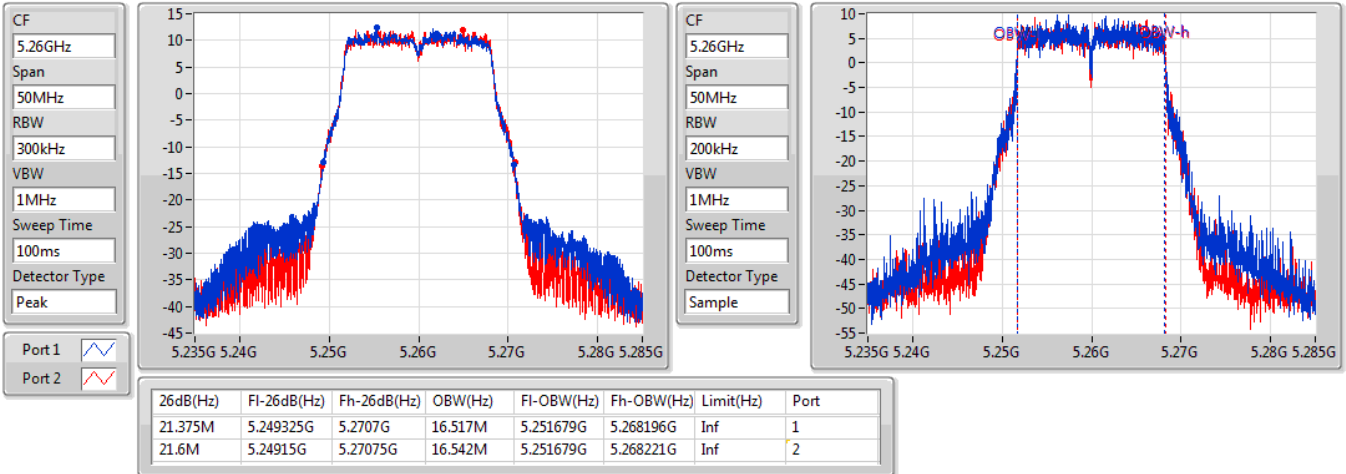
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11a_Nss1,(6Mbps)_2TX

EBW
5260MHz

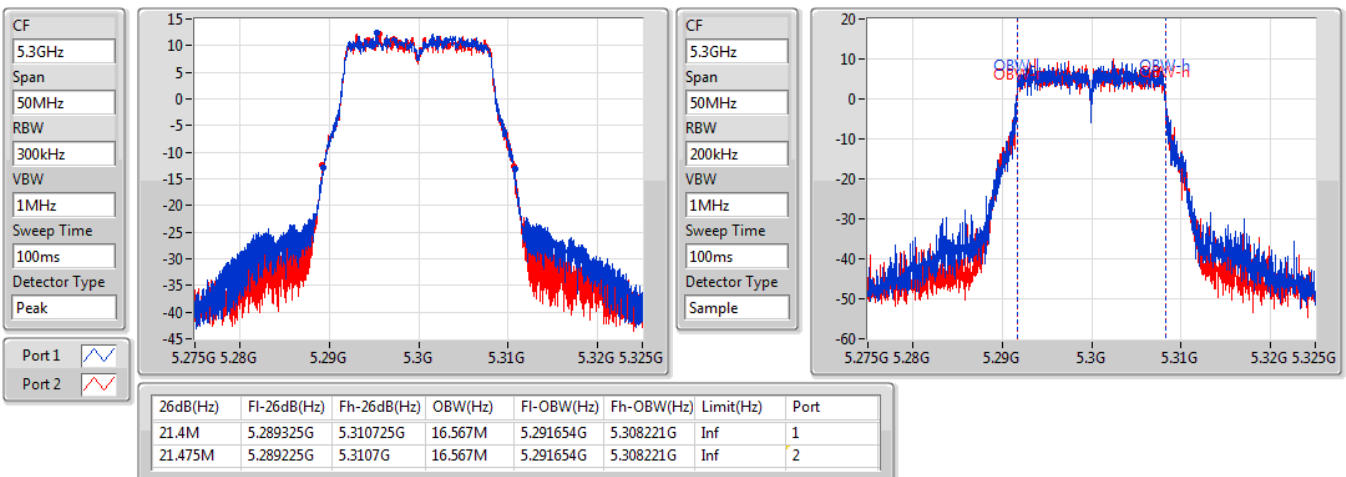
19/07/2019



802.11a_Nss1,(6Mbps)_2TX

EBW
5300MHz

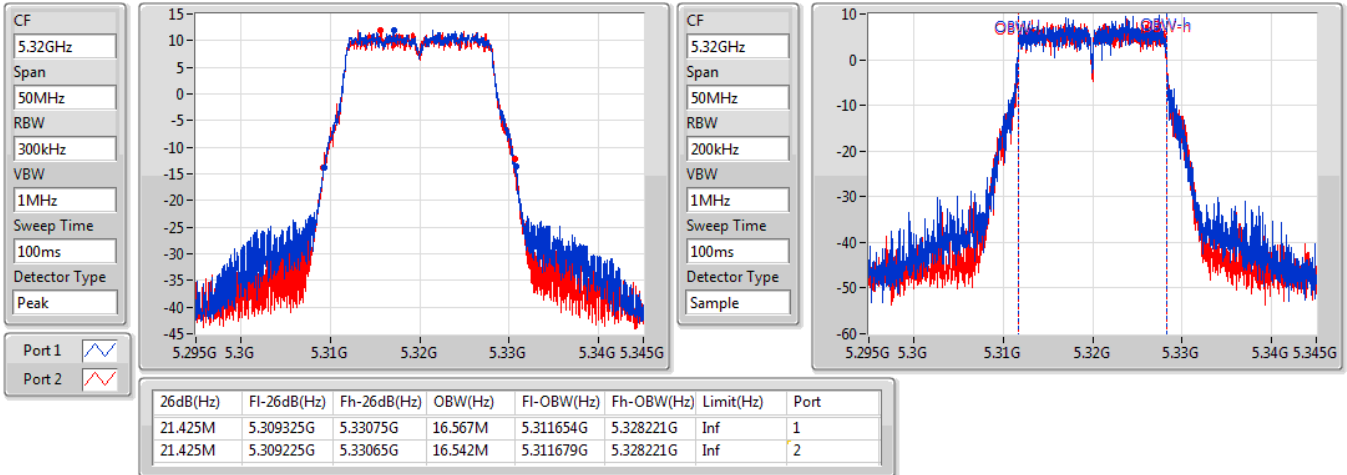
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802.11a_Nss1,(6Mbps)_2TX

EBW
5320MHz

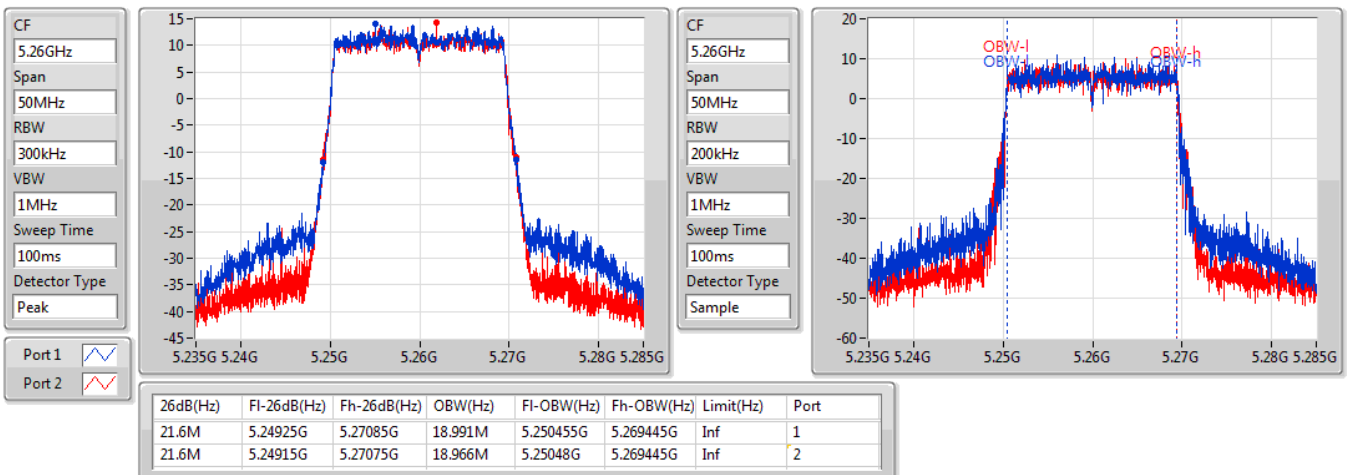
19/07/2019



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW
5260MHz

19/07/2019

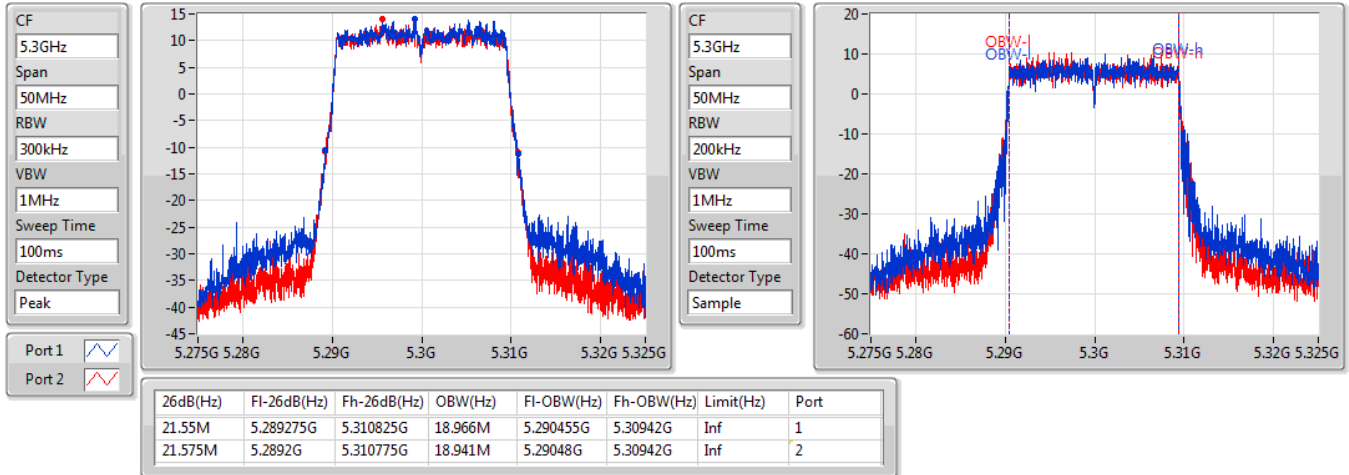


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

5300MHz

19/07/2019

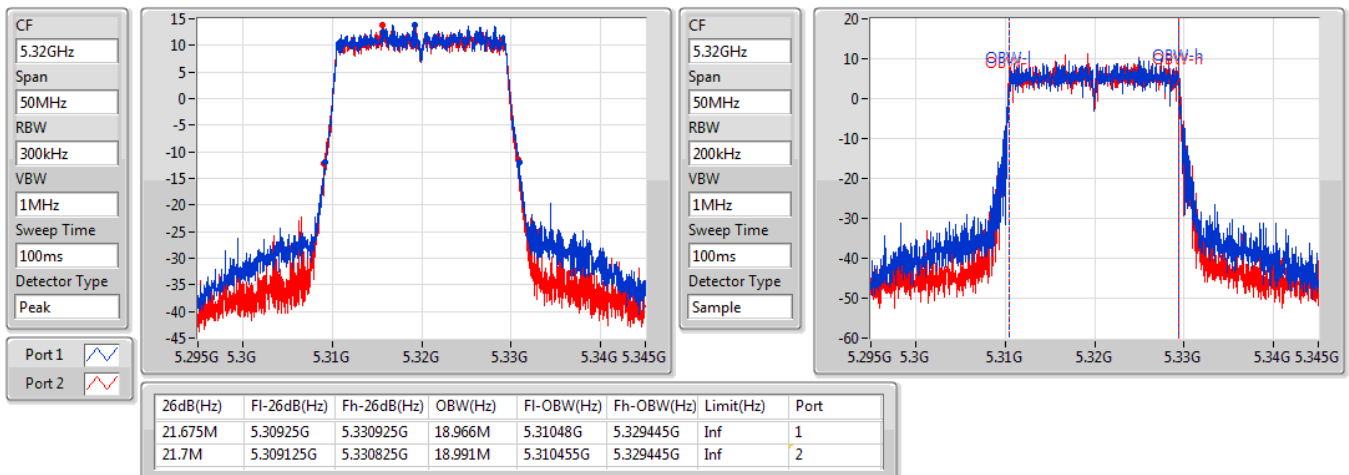


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

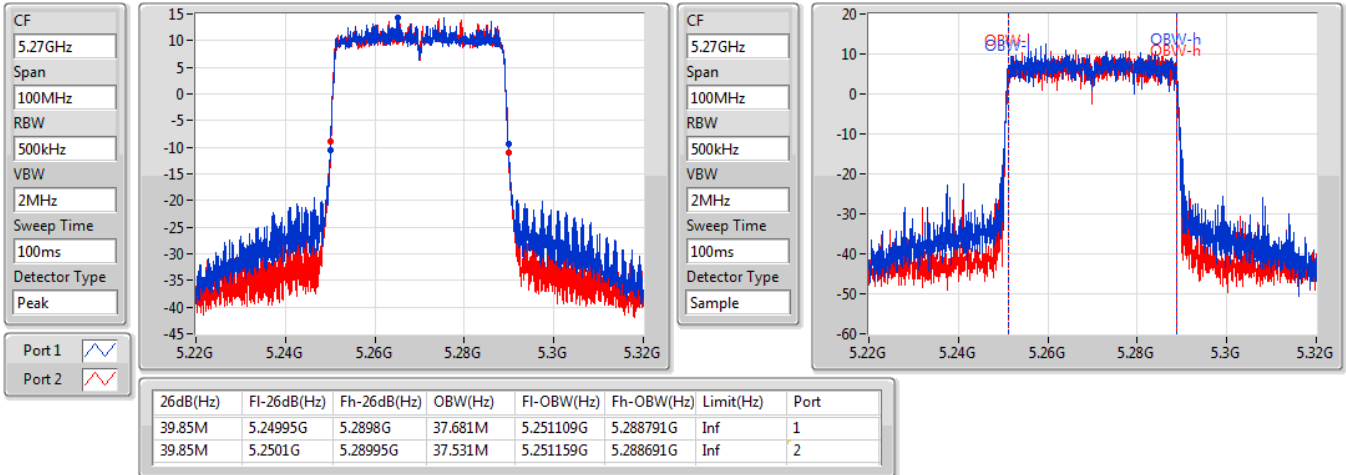
5320MHz

19/07/2019

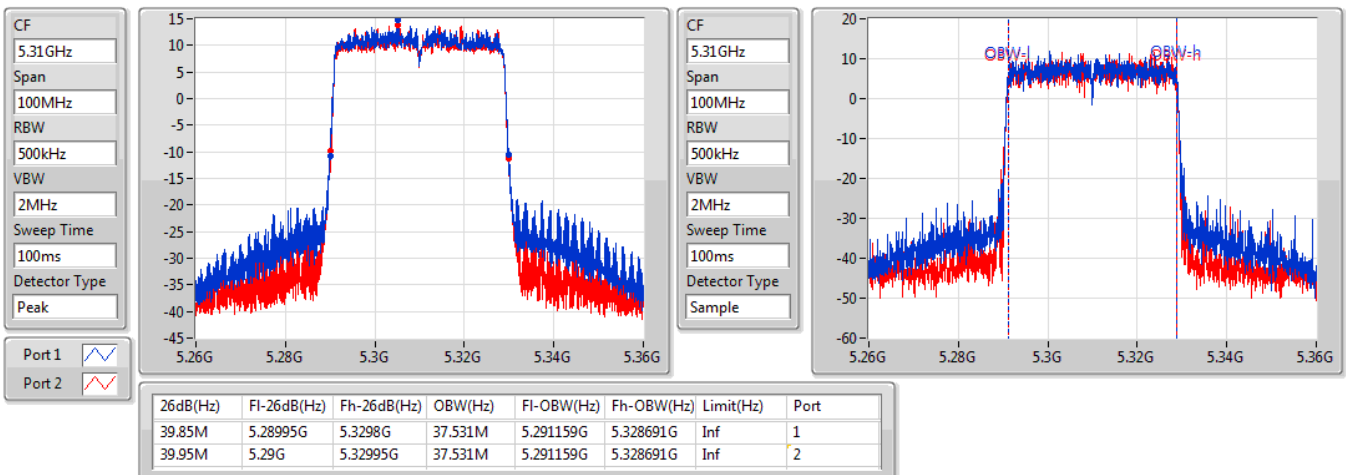


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5270MHz

19/07/2019


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5310MHz

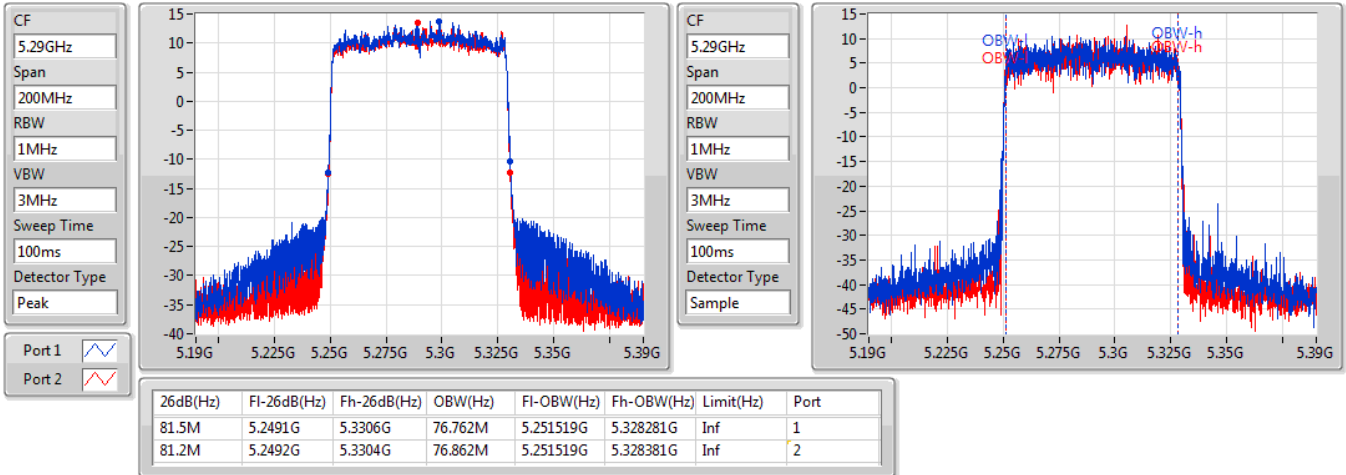
19/07/2019



802.11ax HEW80-BF_Nss1,(MCS0)_2TX

EBW
5290MHz

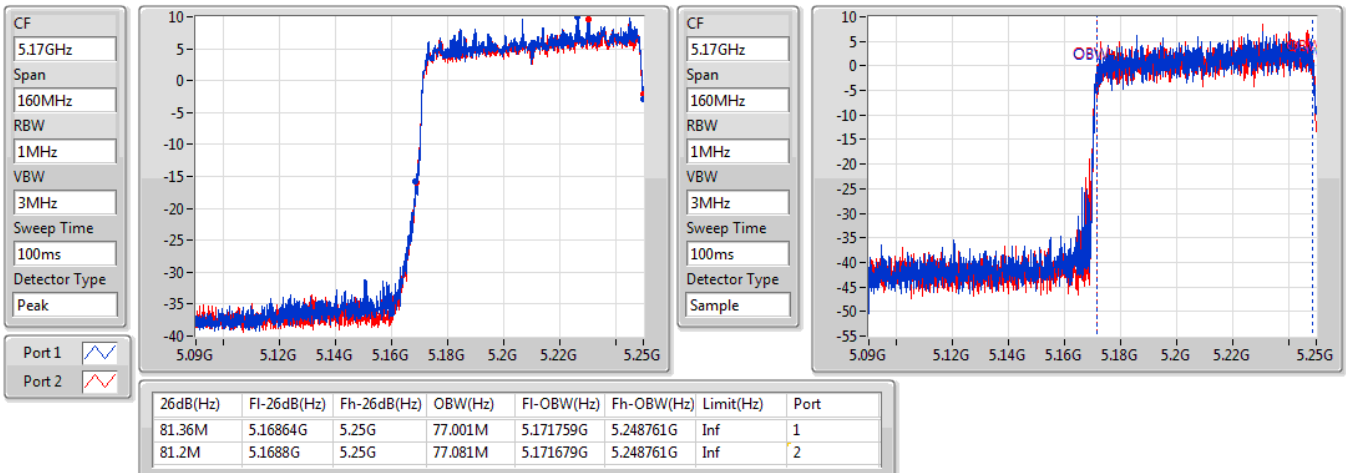
19/07/2019



802.11ax HEW160-BF_Nss1,(MCS0)_2TX

EBW
5250MHz Straddle 5.15-5.25GHz

19/07/2019

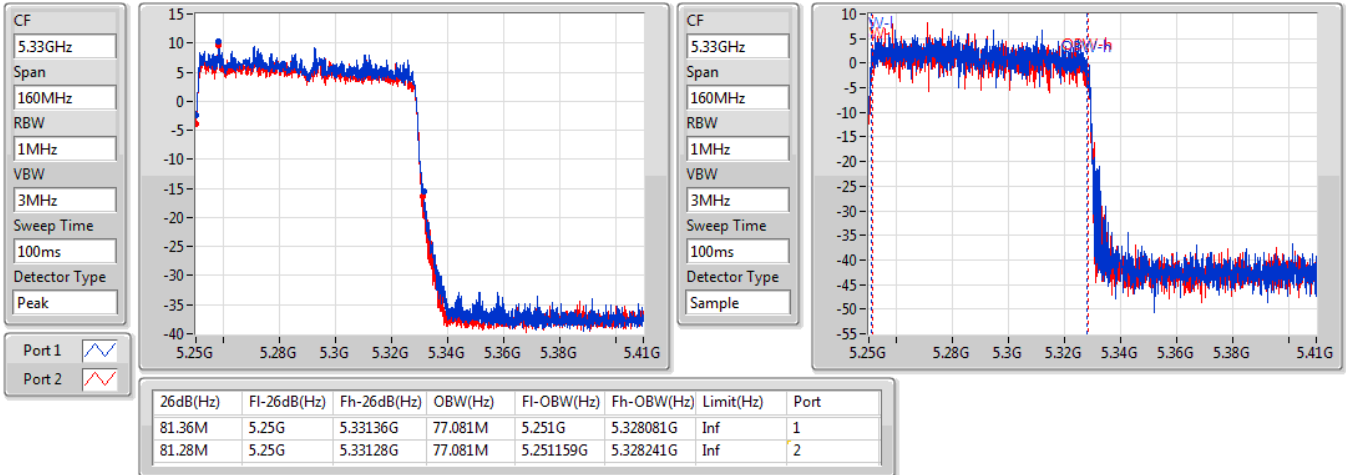


802.11ax HEW160-BF_Nss1,(MCS0)_2TX

EBW

5250MHz Straddle 5.25-5.35GHz

19/07/2019



**For 2T2S
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160_Nss2,(MCS0)_2TX	81.36M	77.081M	77M1D1D	81.12M	76.922M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.65M	18.966M	19M0D1D	21.3M	18.941M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.15M	37.631M	37M6D1D	39.95M	37.581M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.5M	77.161M	77M2D1D	81.5M	76.762M
802.11ax HEW160_Nss2,(MCS0)_2TX	81.04M	77.081M	77M1D1D	80.96M	77.081M

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

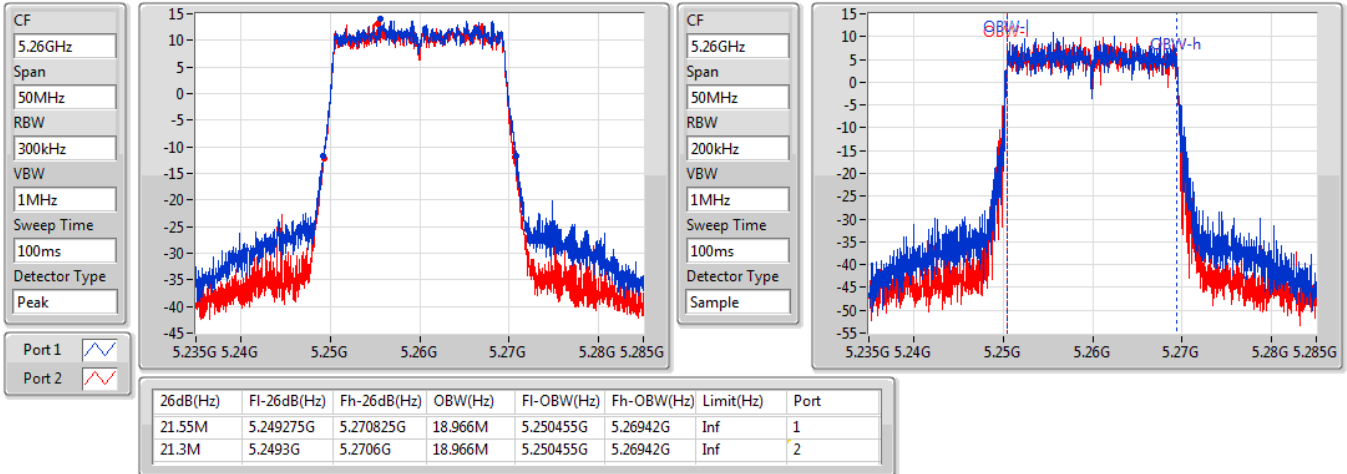
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.55M	18.966M	21.3M	18.966M
5300MHz	Pass	Inf	21.65M	18.966M	21.375M	18.941M
5320MHz	Pass	Inf	21.525M	18.941M	21.35M	18.941M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	40.15M	37.631M	40M	37.581M
5310MHz	Pass	Inf	40M	37.581M	39.95M	37.581M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	81.5M	77.161M	81.5M	76.762M
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.36M	77.081M	81.12M	76.922M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.96M	77.081M	81.04M	77.081M

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

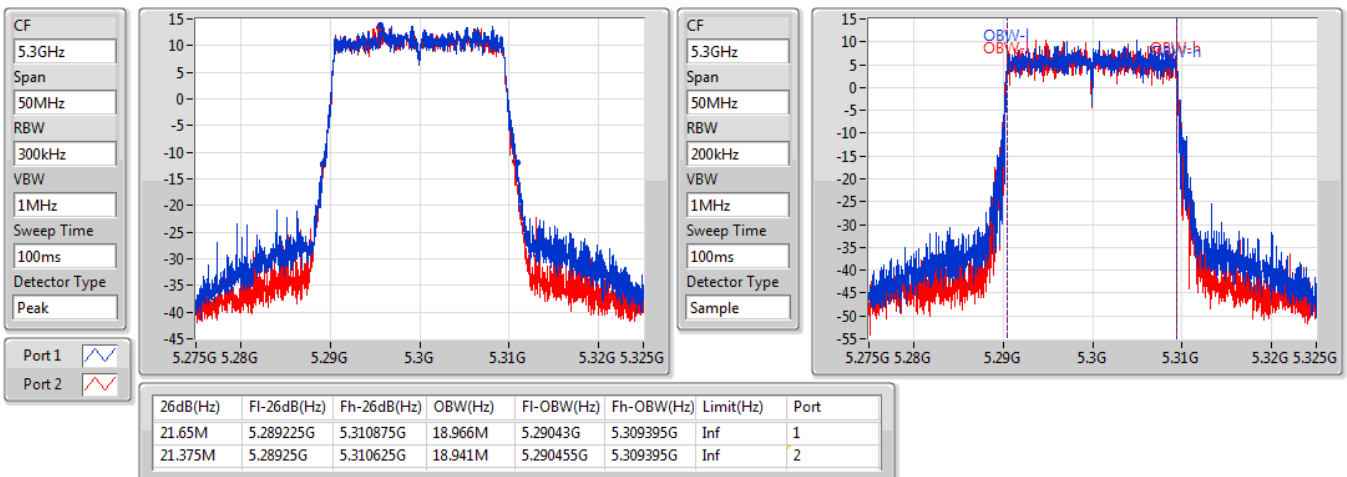
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5260MHz

22/07/2019


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5300MHz

22/07/2019

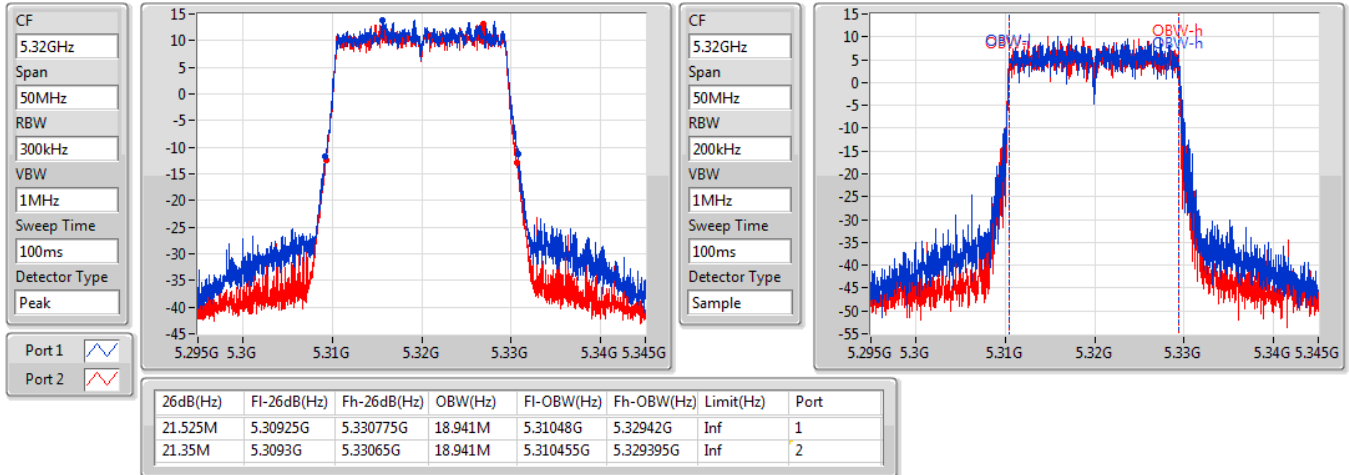


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5320MHz

22/07/2019

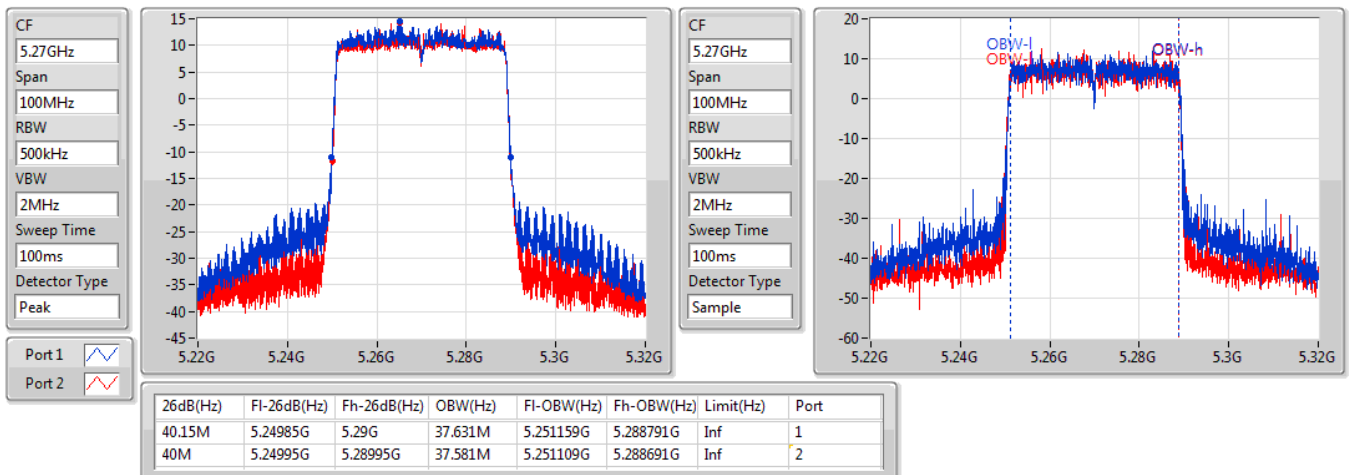


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5270MHz

22/07/2019

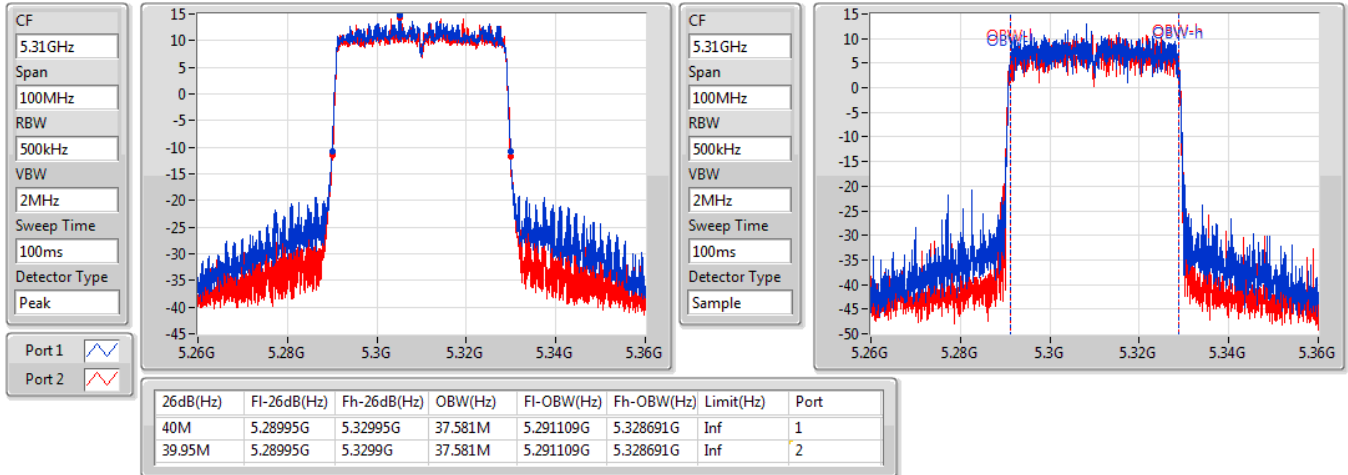


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5310MHz

22/07/2019

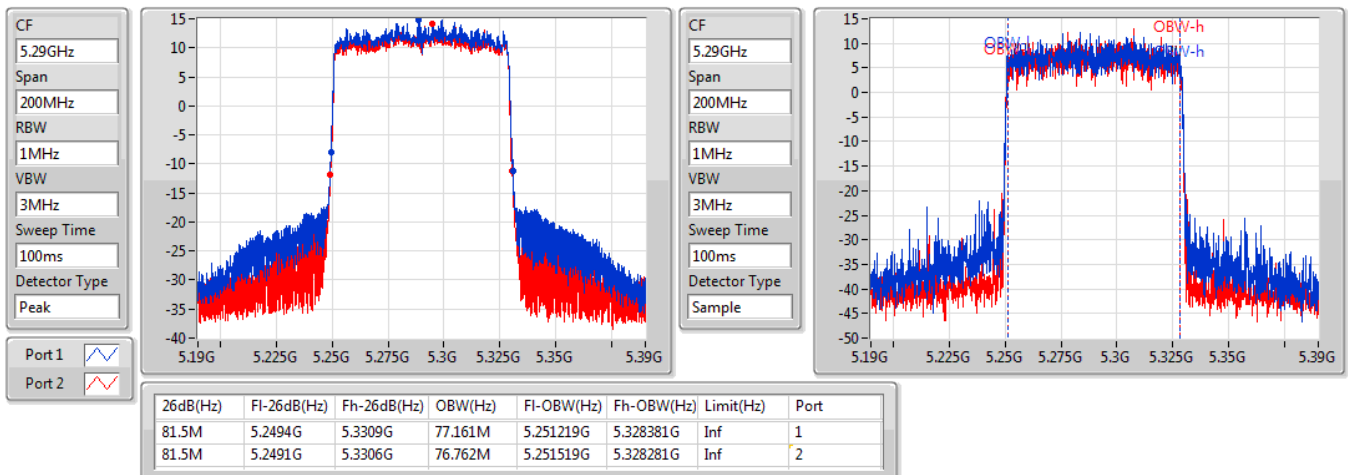


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

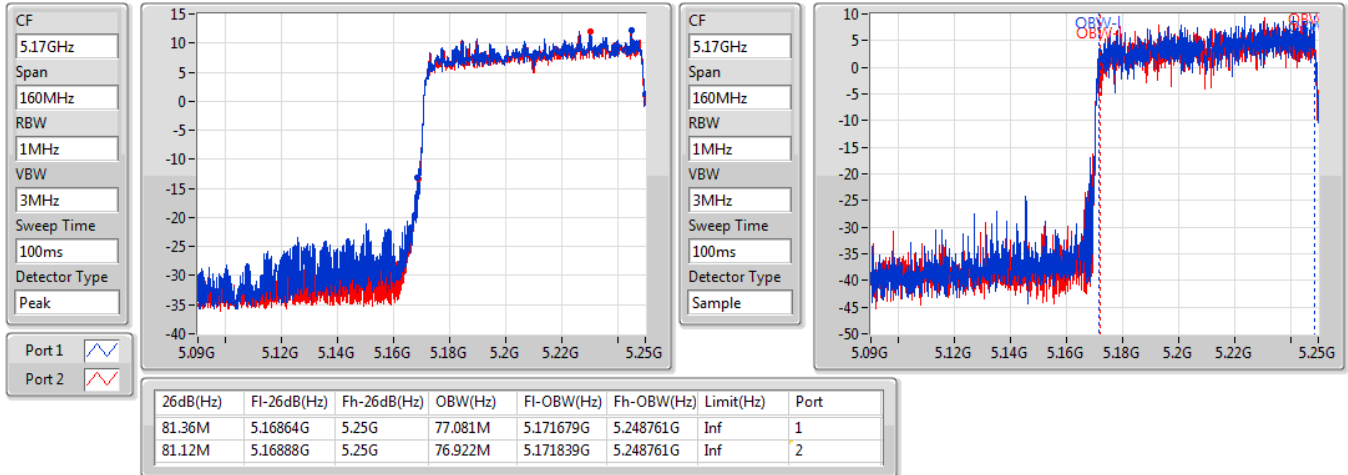
5290MHz

22/07/2019

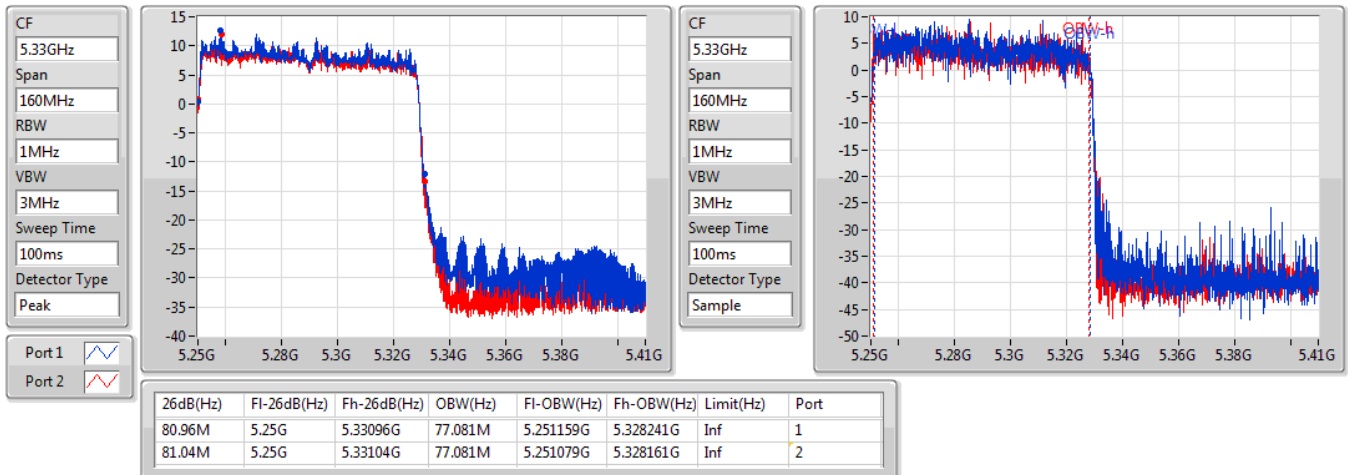


802.11ax HEW160_Nss2,(MCS0)_2TX
EBW
5250MHz Straddle 5.15-5.25GHz

22/07/2019


802.11ax HEW160_Nss2,(MCS0)_2TX
EBW
5250MHz Straddle 5.25-5.35GHz

22/07/2019



**For 4T1S
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.36M	77.001M	77M0D1D	80.88M	77.001M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.675M	16.617M	16M6D1D	21.35M	16.517M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.85M	19.015M	19M0D1D	21.325M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40M	37.631M	37M6D1D	39.8M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	81.9M	77.061M	77M1D1D	81.3M	76.962M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.36M	77.161M	77M2D1D	80.88M	77.081M

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	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.35M	16.592M	21.675M	16.567M	21.575M	16.592M	21.55M	16.592M
5300MHz	Pass	Inf	21.45M	16.517M	21.675M	16.592M	21.55M	16.567M	21.5M	16.592M
5320MHz	Pass	Inf	21.425M	16.542M	21.625M	16.617M	21.575M	16.592M	21.525M	16.542M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.525M	18.941M	21.575M	18.966M	21.85M	18.966M	21.35M	18.941M
5300MHz	Pass	Inf	21.625M	18.941M	21.675M	19.015M	21.775M	18.966M	21.325M	18.966M
5320MHz	Pass	Inf	21.575M	19.015M	21.65M	18.966M	21.85M	19.015M	21.325M	18.991M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40M	37.481M	39.8M	37.631M	40M	37.631M	39.95M	37.581M
5310MHz	Pass	Inf	40M	37.581M	39.8M	37.531M	39.95M	37.531M	39.85M	37.581M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.6M	76.962M	81.3M	77.061M	81.9M	77.061M	81.3M	76.962M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.36M	77.001M	81.2M	77.001M	80.88M	77.001M	81.2M	77.001M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.36M	77.081M	80.88M	77.161M	81.04M	77.081M	81.04M	77.081M

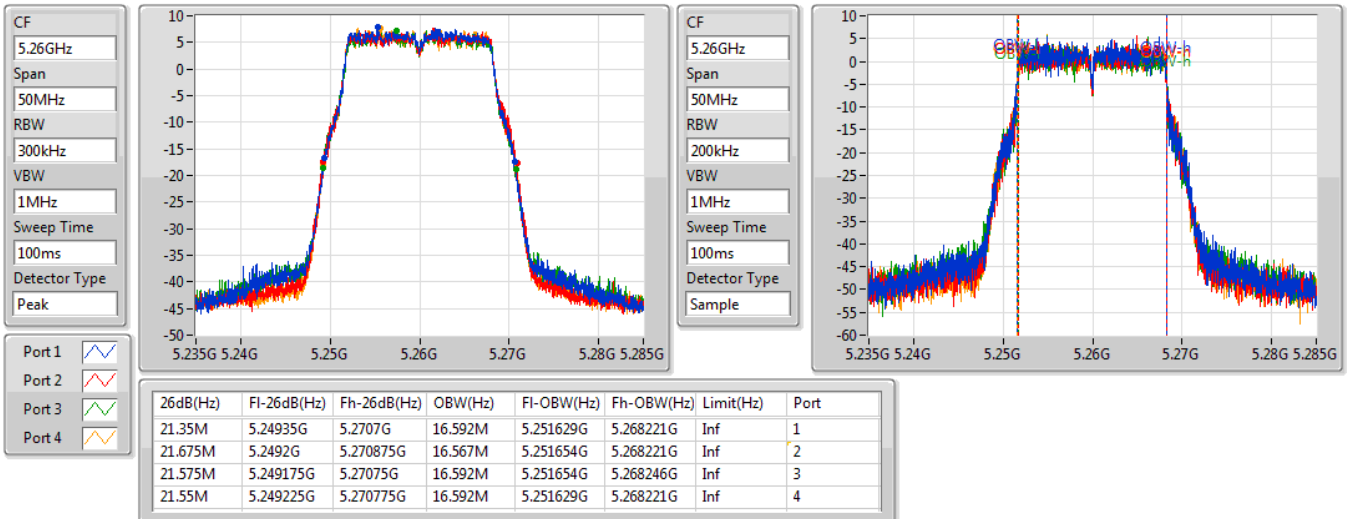
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11a_Nss1,(6Mbps)_4TX

EBW
5260MHz

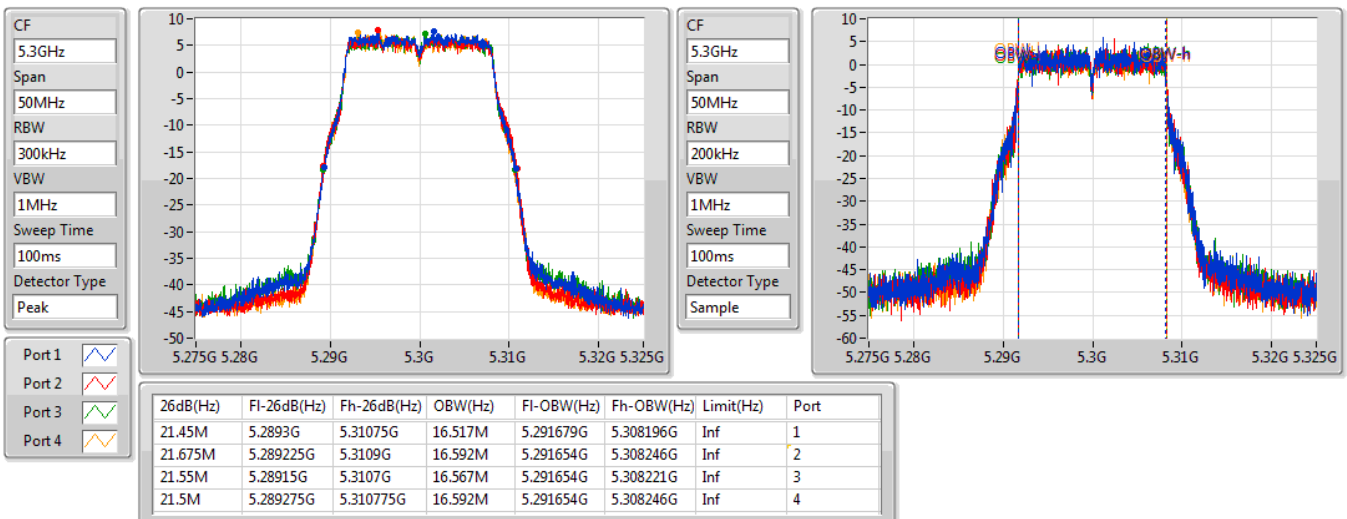
18/07/2019



802.11a_Nss1,(6Mbps)_4TX

EBW
5300MHz

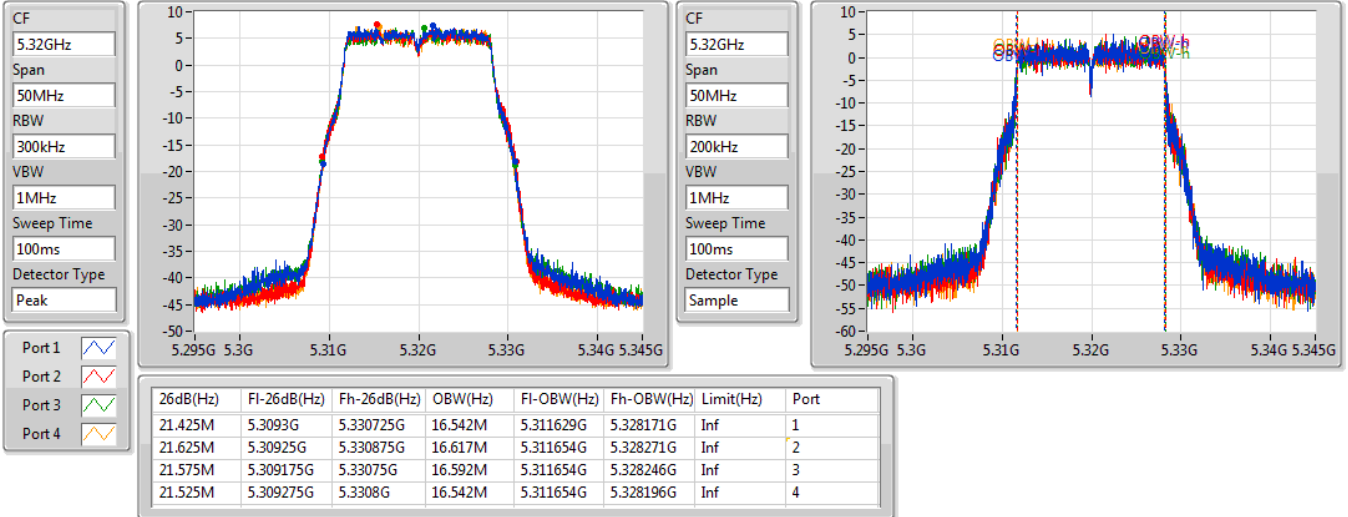
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802.11a_Nss1,(6Mbps)_4TX

EBW
5320MHz

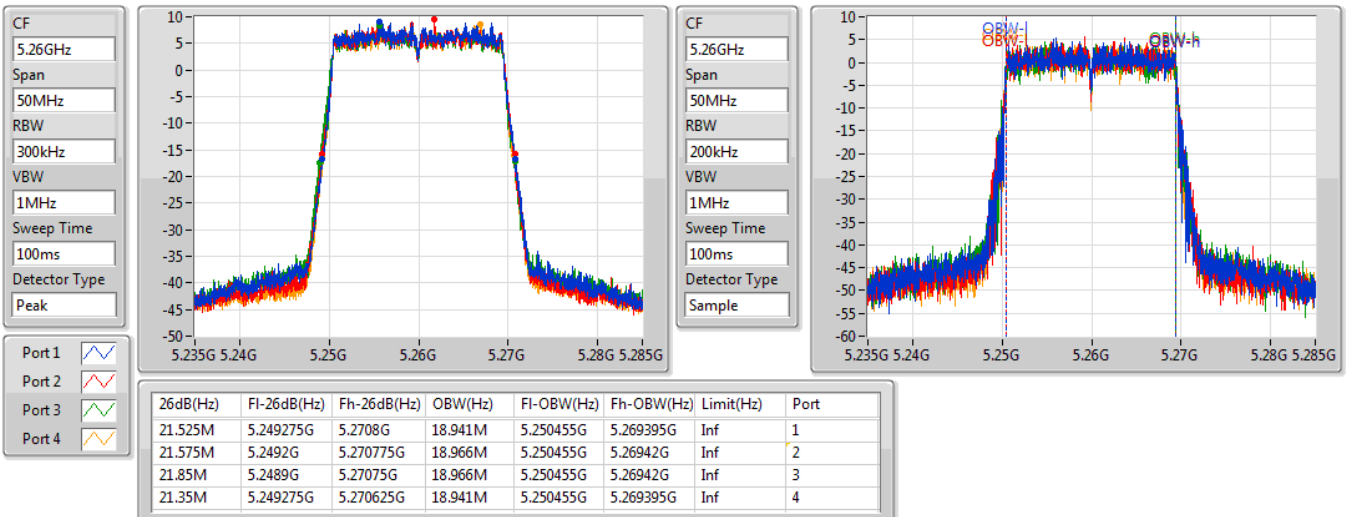
18/07/2019



802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW
5260MHz

18/07/2019

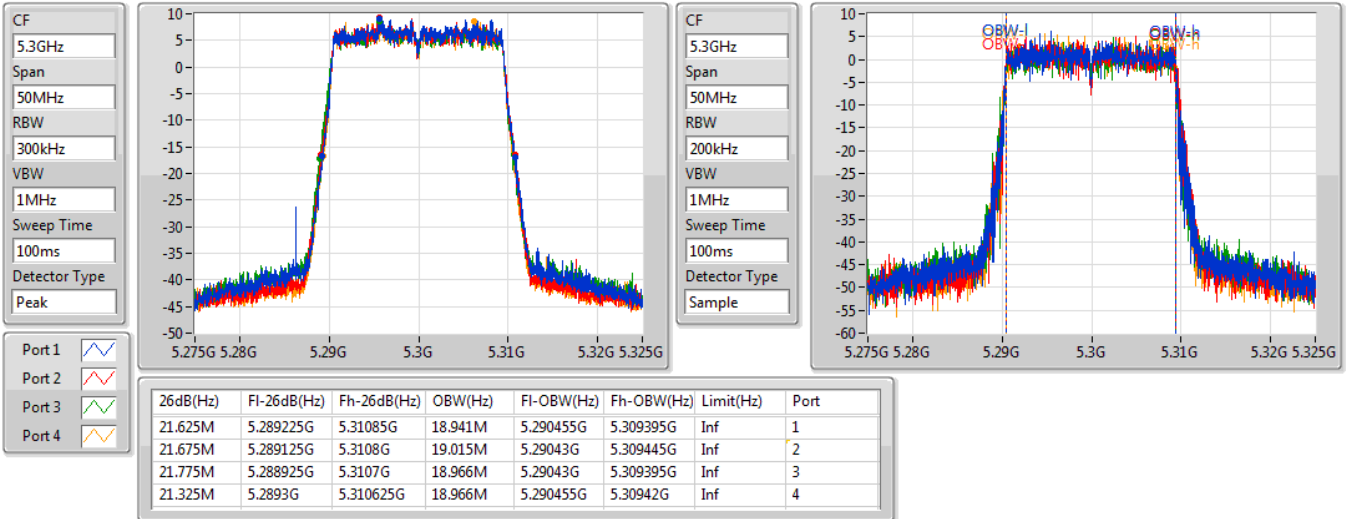


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5300MHz

18/07/2019

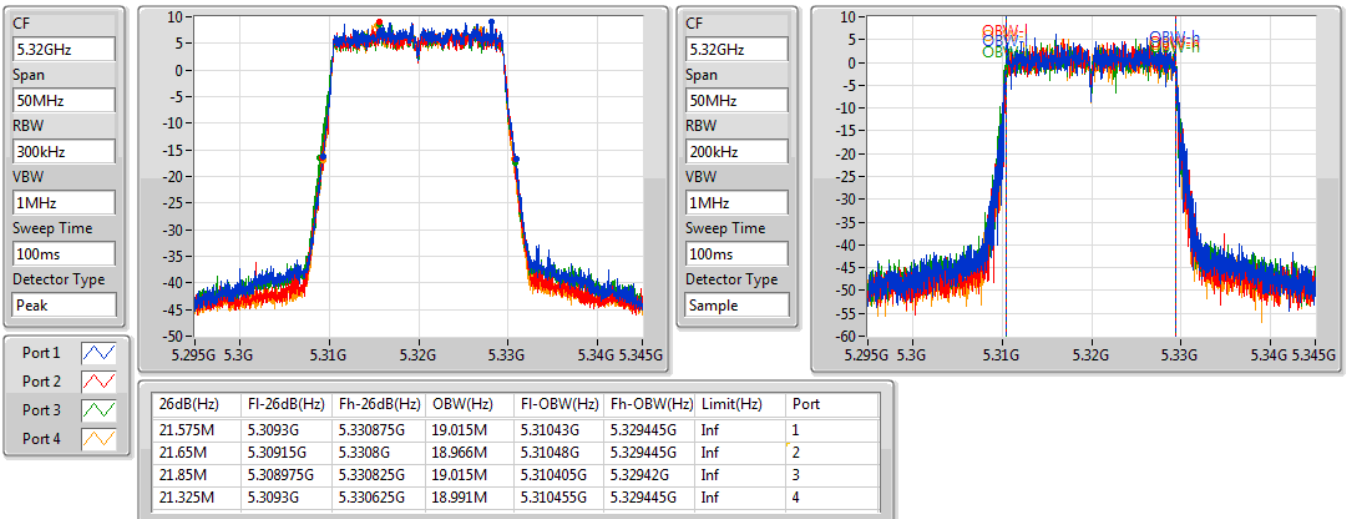


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5320MHz

18/07/2019

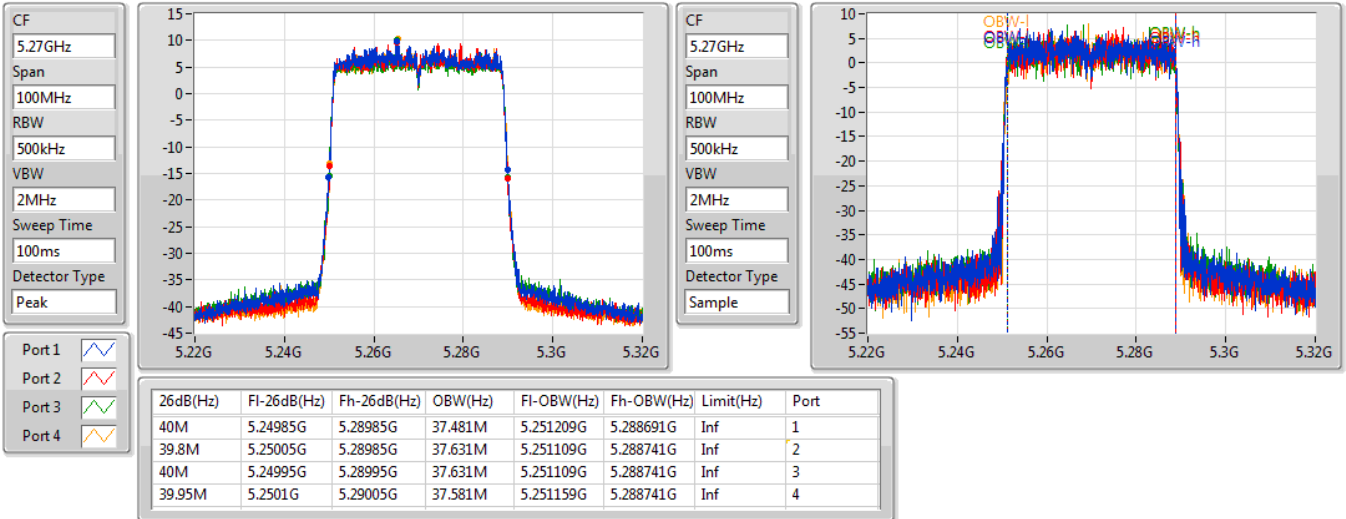


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5270MHz

18/07/2019

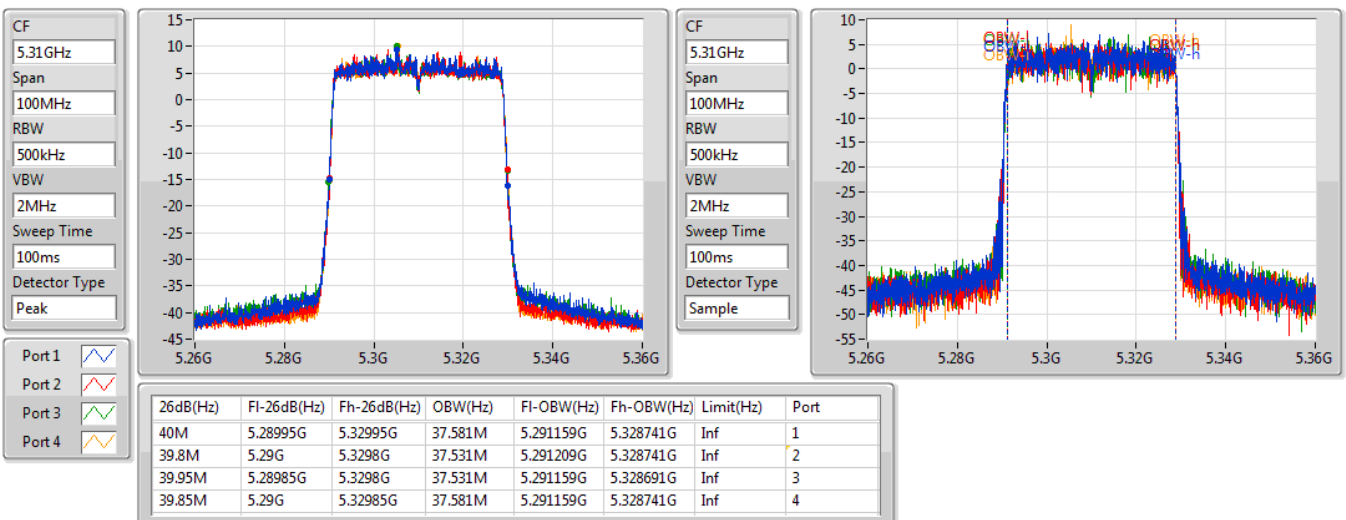


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5310MHz

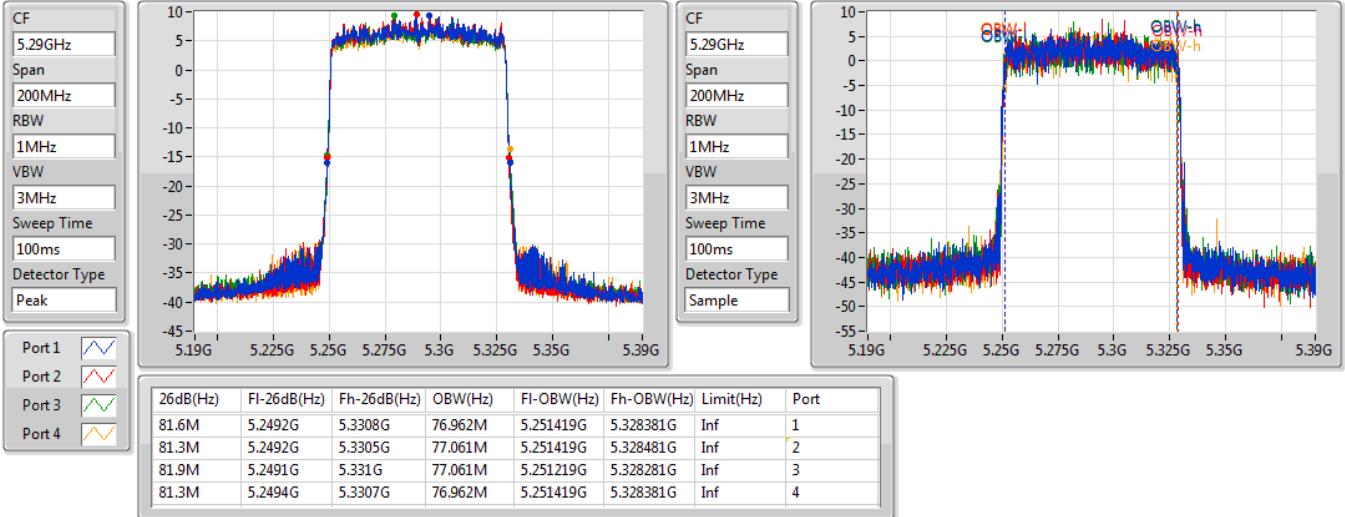
18/07/2019



802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW
5290MHz

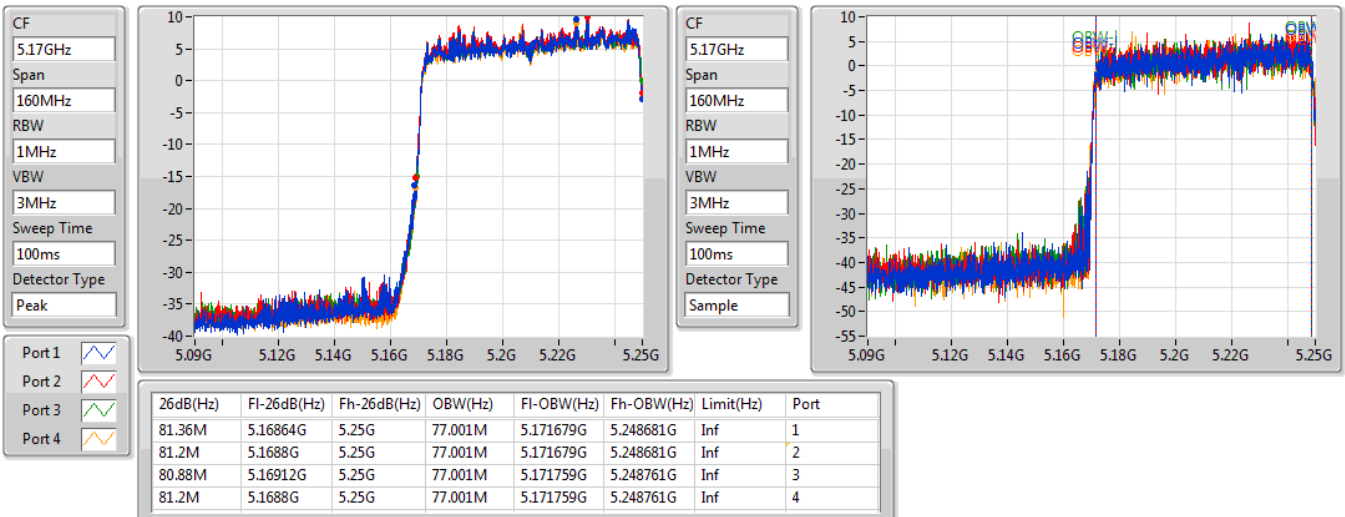
18/07/2019



802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW
5250MHz Straddle 5.15-5.25GHz

18/07/2019

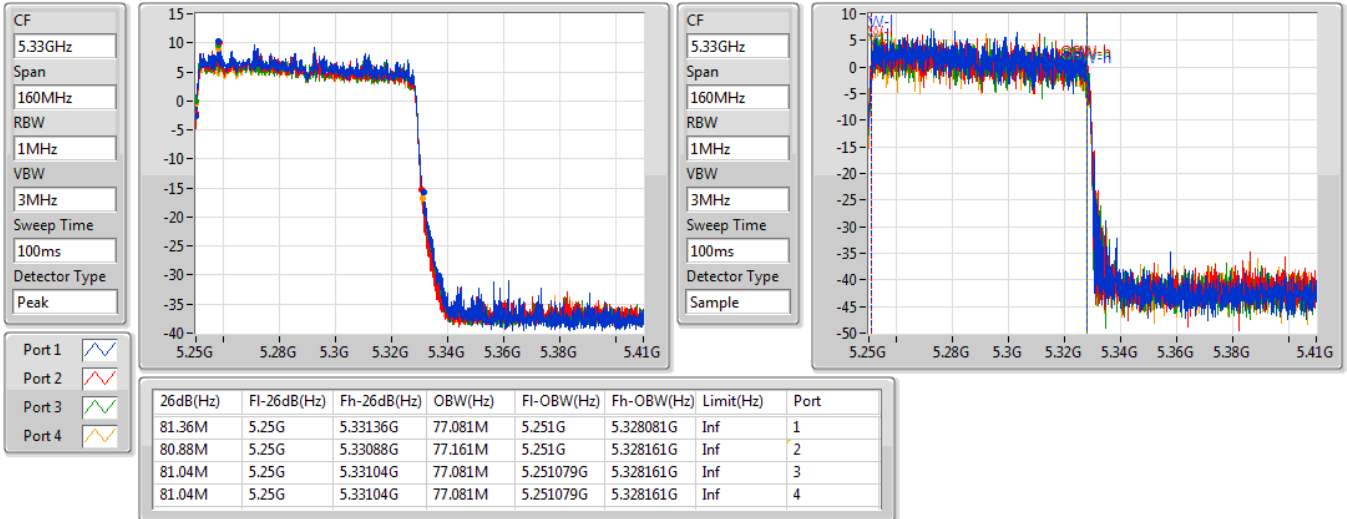


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

18/07/2019



**For 4T2S
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	81.28M	77.321M	77M3D1D	80.96M	77.001M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	21.925M	18.991M	19M0D1D	21.325M	18.916M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	40.15M	37.681M	37M7D1D	39.7M	37.431M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	81.9M	77.161M	77M2D1D	81.1M	76.862M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	81.36M	77.161M	77M2D1D	80.8M	77.001M

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

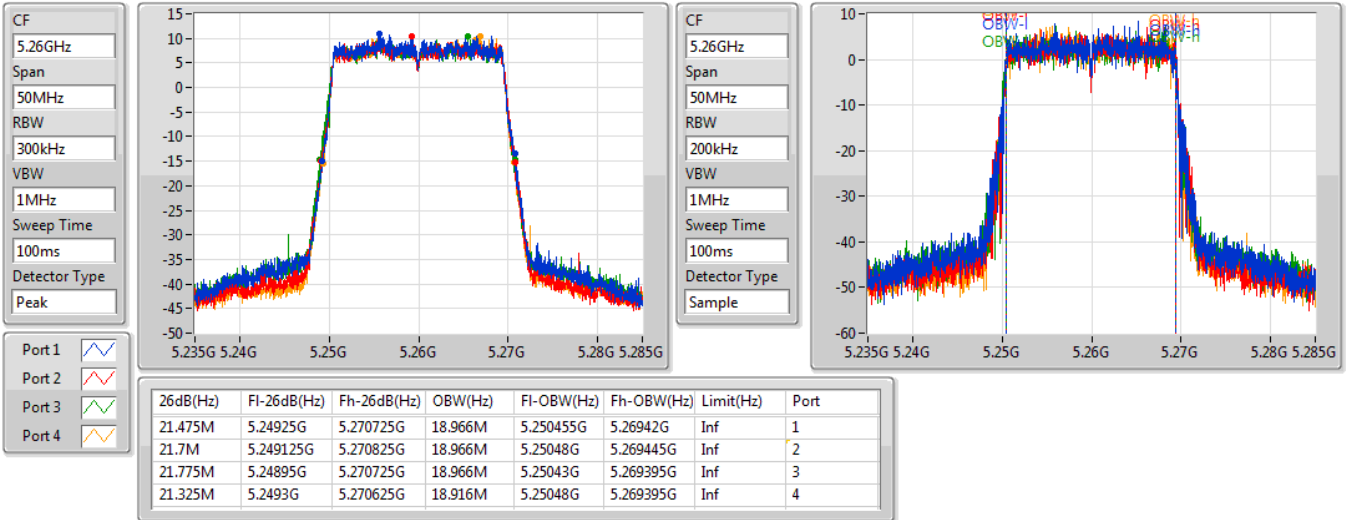
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.475M	18.966M	21.7M	18.966M	21.775M	18.966M	21.325M	18.916M
5300MHz	Pass	Inf	21.525M	18.941M	21.6M	18.966M	21.8M	18.966M	21.475M	18.941M
5320MHz	Pass	Inf	21.625M	18.966M	21.725M	18.991M	21.925M	18.966M	21.325M	18.991M
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.15M	37.681M	40M	37.581M	40.1M	37.531M	39.7M	37.431M
5310MHz	Pass	Inf	40M	37.581M	39.9M	37.481M	39.85M	37.581M	40M	37.581M
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.7M	77.161M	81.1M	76.862M	81.9M	77.061M	81.8M	76.862M
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.28M	77.321M	80.96M	77.161M	81.2M	77.001M	81.12M	77.161M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.36M	77.001M	80.8M	77.001M	81.2M	77.161M	81.12M	77.161M

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

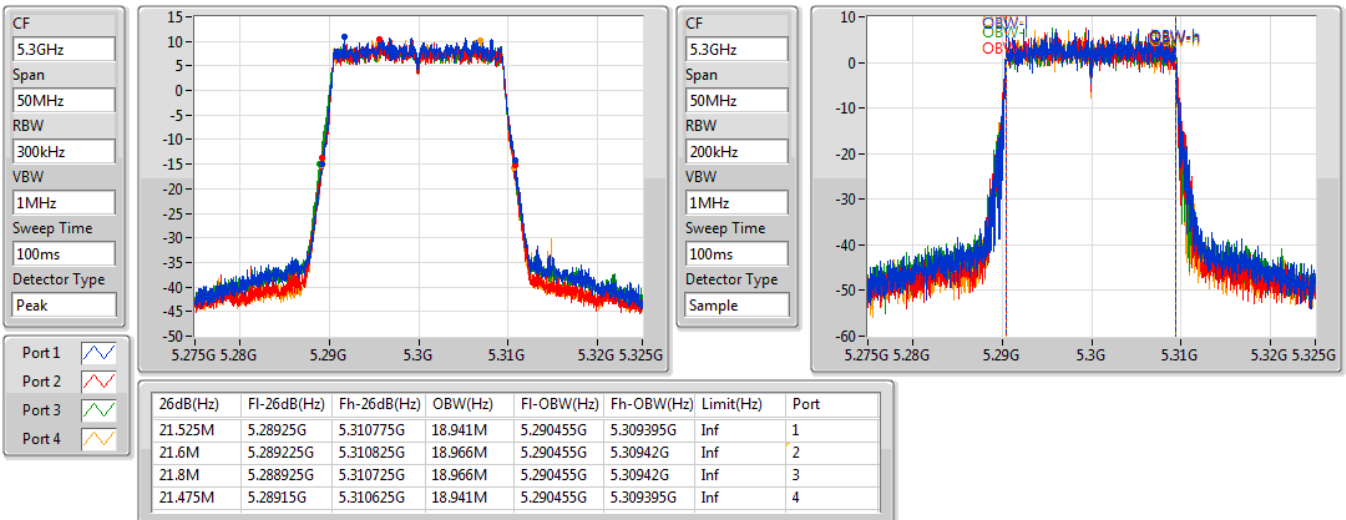
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss2,(MCS0)_4TX
EBW
5260MHz

19/07/2019


802.11ax HEW20-BF_Nss2,(MCS0)_4TX
EBW
5300MHz

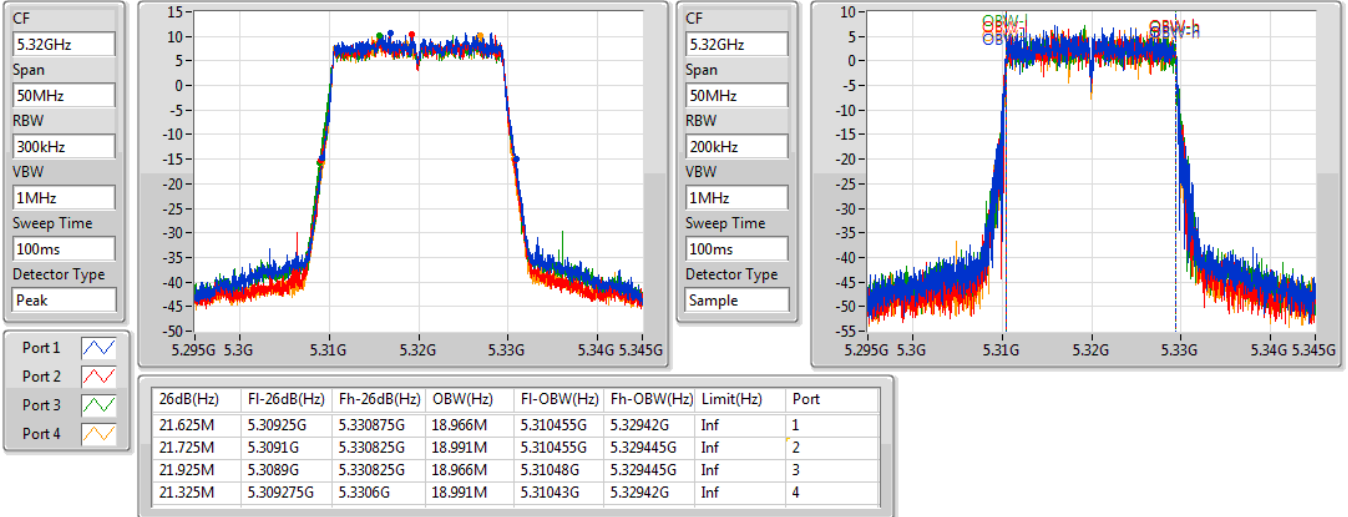
19/07/2019



802.11ax HEW20-BF_Nss2,(MCS0)_4TX

EBW
5320MHz

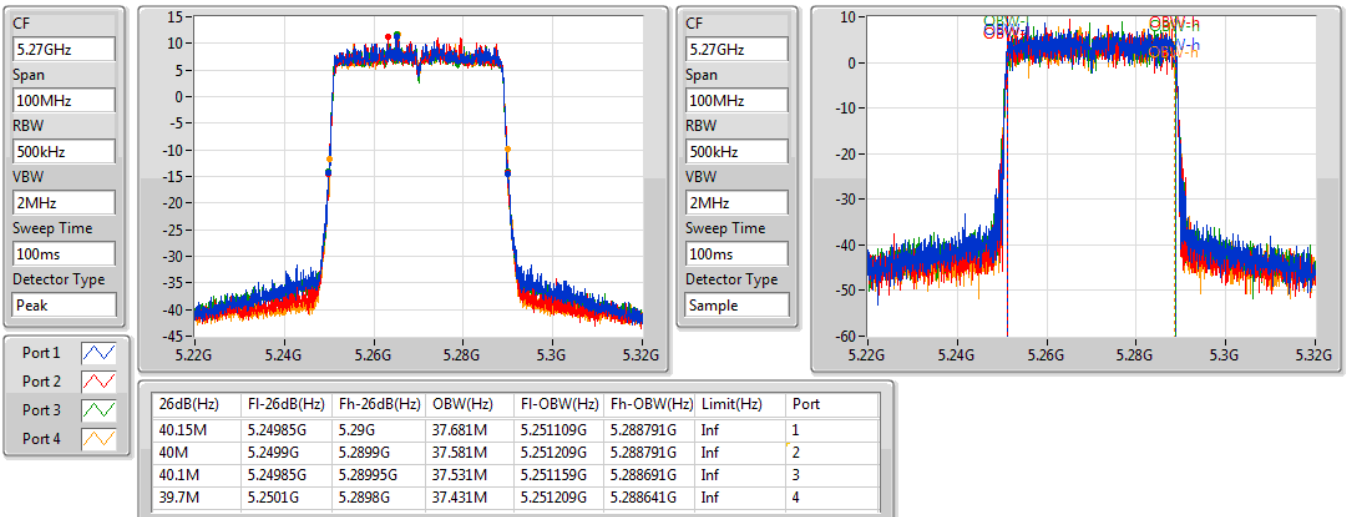
19/07/2019



802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW
5270MHz

19/07/2019

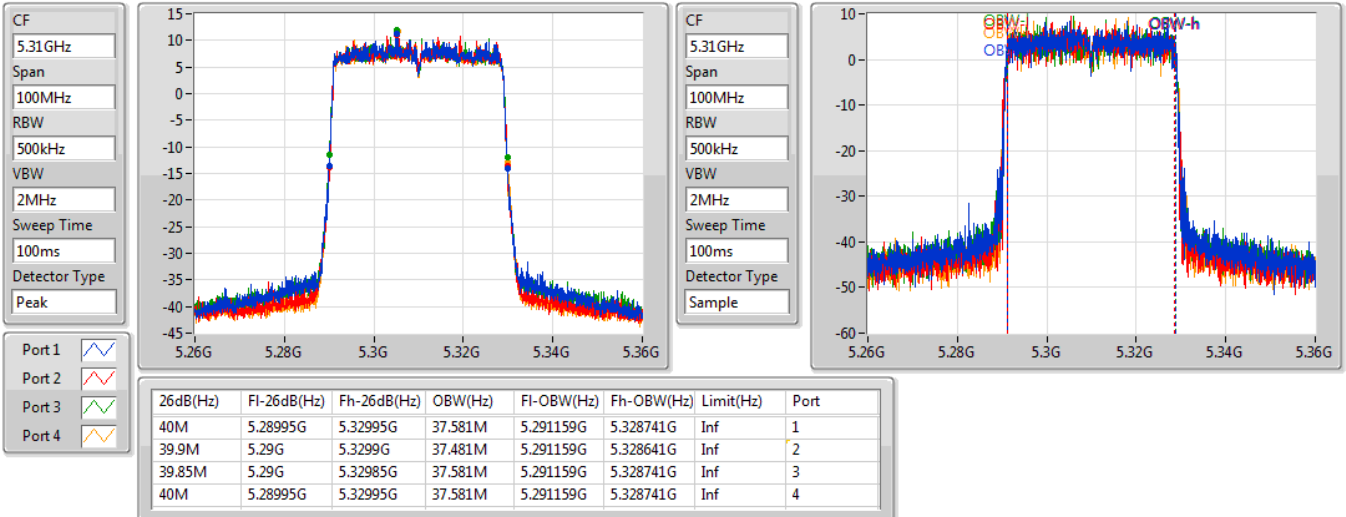


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

EBW

5310MHz

19/07/2019

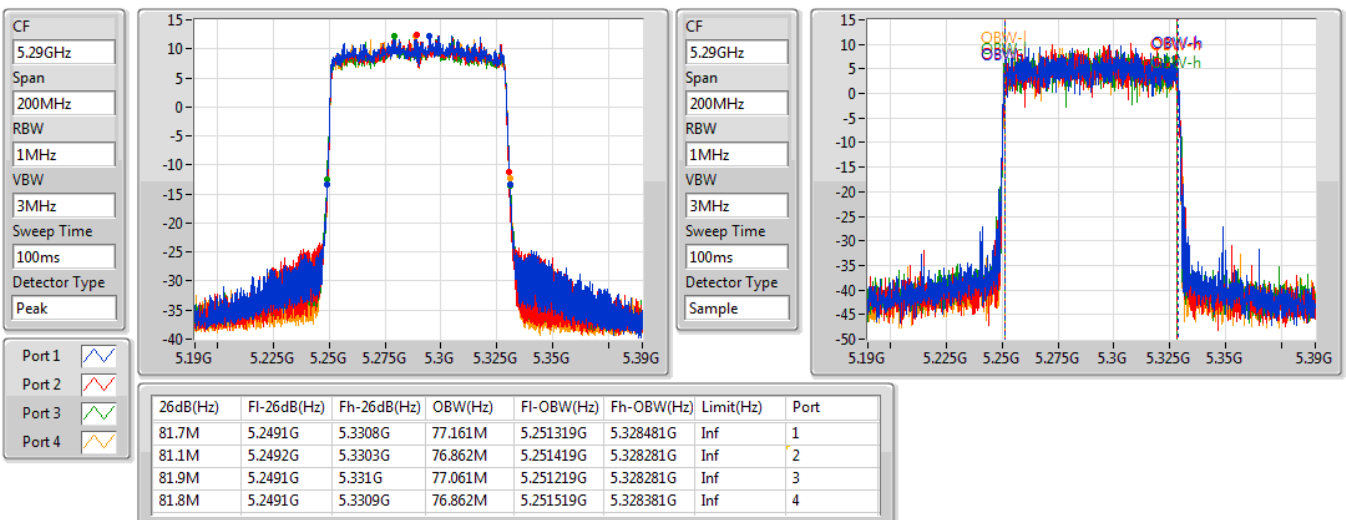


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

EBW

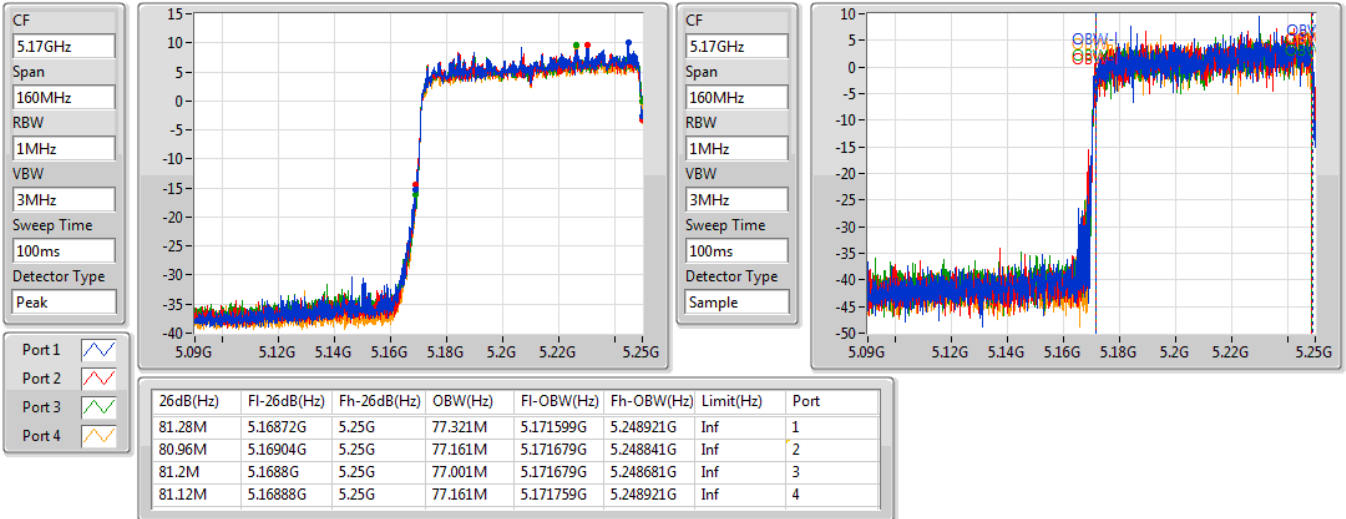
5290MHz

19/07/2019

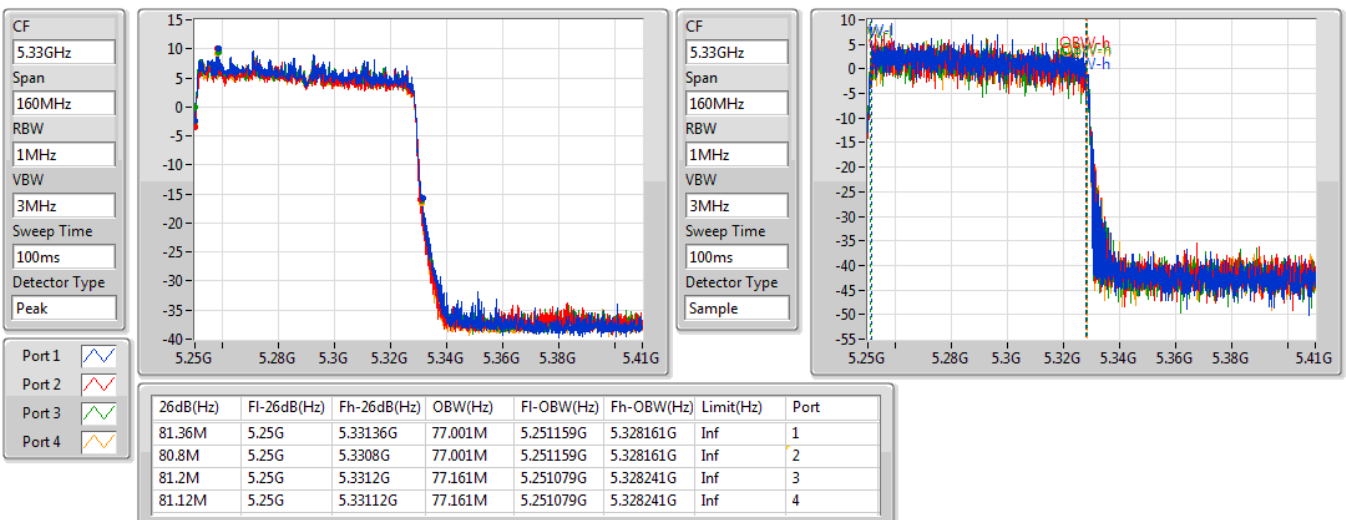


802.11ax HEW160-BF_Nss2,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

19/07/2019


802.11ax HEW160-BF_Nss2,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

19/07/2019





**For 2T1S
Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	18.77	0.07534
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	23.91	0.24604
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	23.94	0.24774
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	23.97	0.24946
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	23.11	0.20464
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	18.69	0.07396

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	1.93	20.79	20.63	23.72	23.98
5300MHz	Pass	1.93	21.06	20.73	23.91	23.98
5320MHz	Pass	1.93	20.99	20.61	23.81	23.98
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	4.90	20.79	20.82	23.82	23.98
5300MHz	Pass	4.90	21.19	20.61	23.92	23.98
5320MHz	Pass	4.90	20.97	20.88	23.94	23.98
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	4.90	21.20	20.70	23.97	23.98
5310MHz	Pass	4.90	21.09	20.74	23.93	23.98
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	4.90	20.27	19.93	23.11	23.98
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.85	15.96	15.54	18.77	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.90	16.01	15.32	18.69	23.98

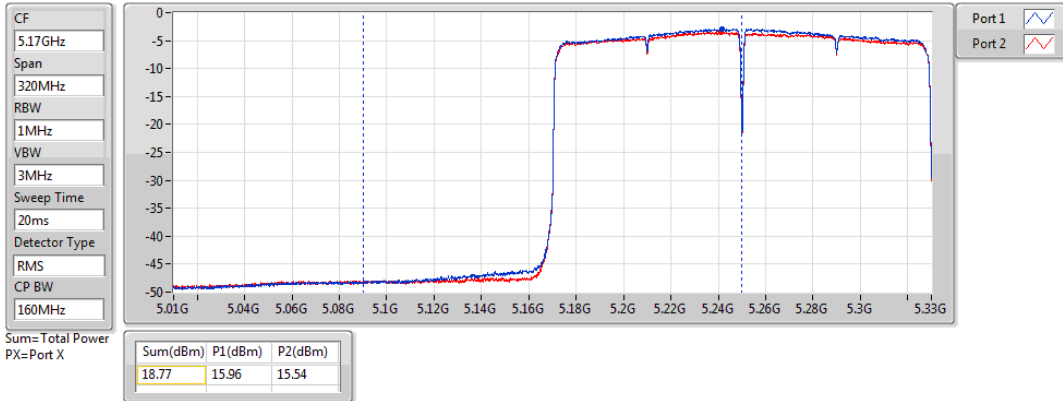
DG = Directional Gain; **Port X** = Port X output power

802.11ax HEW160-BF_Nss1,(MCS0)_2TX

AV Power

5250MHz Straddle 5.15-5.25GHz

19/07/2019

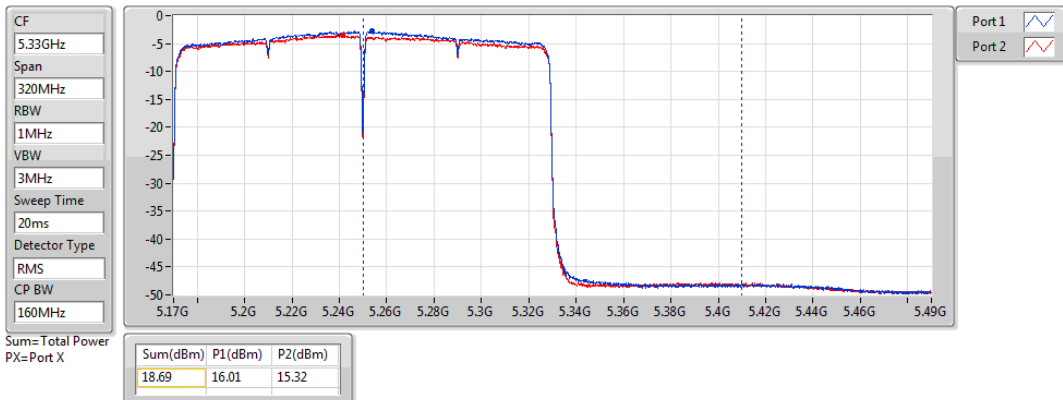


802.11ax HEW160-BF_Nss1,(MCS0)_2TX

AV Power

5250MHz Straddle 5.25-5.35GHz

19/07/2019





**For 2T2S
Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW160_Nss2,(MCS0)_2TX	21.87	0.15382
5.25-5.35GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	23.96	0.24889
802.11ax HEW40_Nss2,(MCS0)_2TX	23.96	0.24889
802.11ax HEW80_Nss2,(MCS0)_2TX	23.91	0.24604
802.11ax HEW160_Nss2,(MCS0)_2TX	21.88	0.15417



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	1.89	21.12	20.65	23.90	23.98
5300MHz	Pass	1.89	21.18	20.6	23.91	23.98
5320MHz	Pass	1.89	21.22	20.67	23.96	23.98
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	1.89	21.17	20.65	23.93	23.98
5310MHz	Pass	1.89	21.19	20.69	23.96	23.98
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	1.89	21.21	20.57	23.91	23.98
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	1.84	19.06	18.66	21.87	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	1.89	19.04	18.7	21.88	23.98

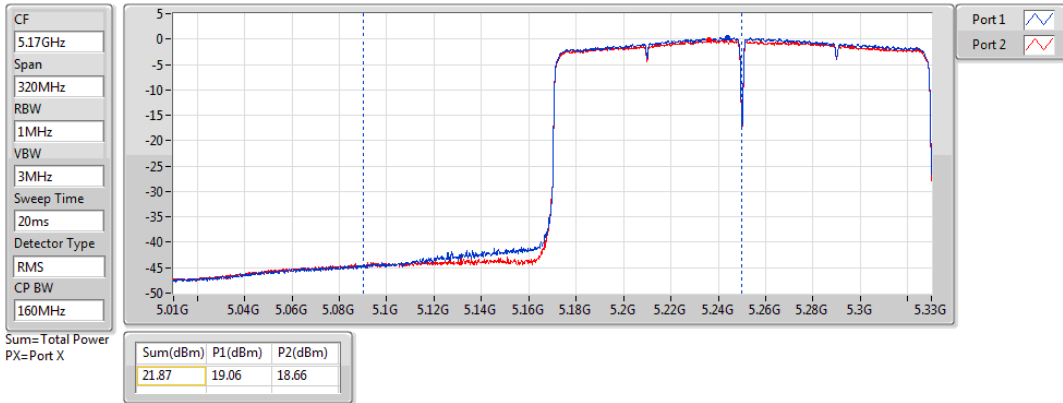
DG = Directional Gain; **Port X** = Port X output power

802.11ax HEW160_Nss2,(MCS0)_2TX

AV Power

5250MHz Straddle 5.15-5.25GHz

22/07/2019

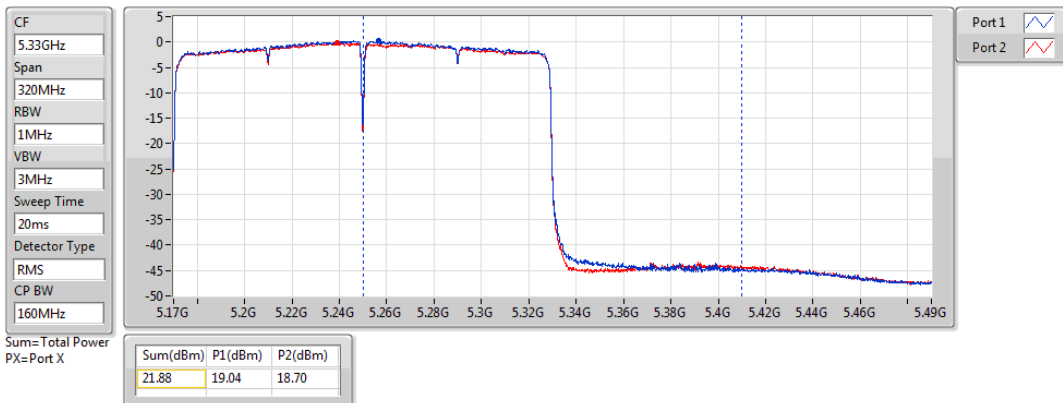


802.11ax HEW160_Nss2,(MCS0)_2TX

AV Power

5250MHz Straddle 5.25-5.35GHz

22/07/2019





**For 4T1S
Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	22.15	0.16406
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	22.10	0.16218
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.05	0.16032
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.02	0.15922
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	21.92	0.15560
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	22.04	0.15996

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	-	-	-	-	-	-	-	-
5260MHz	Pass	1.93	16.53	16.12	15.60	15.81	22.05	23.98
5300MHz	Pass	1.93	16.36	16.08	15.92	15.94	22.10	23.98
5320MHz	Pass	1.93	16.38	16.05	15.99	15.78	22.08	23.98
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.91	15.91	16.17	15.72	15.91	21.95	22.07
5300MHz	Pass	7.91	15.86	15.97	15.86	15.67	21.86	22.07
5320MHz	Pass	7.91	16.28	16.17	15.79	15.87	22.05	22.07
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.91	16.13	15.99	15.98	15.89	22.02	22.07
5310MHz	Pass	7.91	16.03	16.07	15.82	15.73	21.94	22.07
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.91	16.03	16.10	15.87	15.57	21.92	22.07
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.86	16.24	16.41	16.04	15.82	22.15	28.14
5250MHz Straddle 5.25-5.35GHz	Pass	7.91	16.39	16.08	15.97	15.59	22.04	22.07

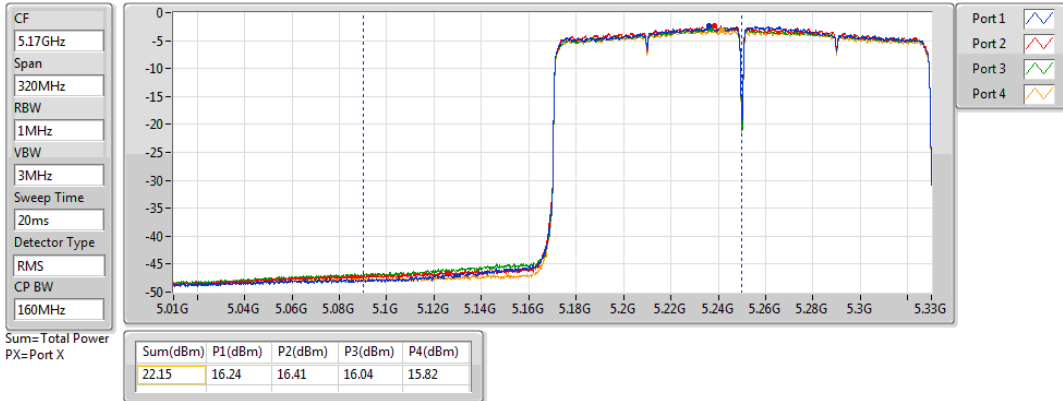
DG = Directional Gain; **Port X** = Port X output power

802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

23/07/2019

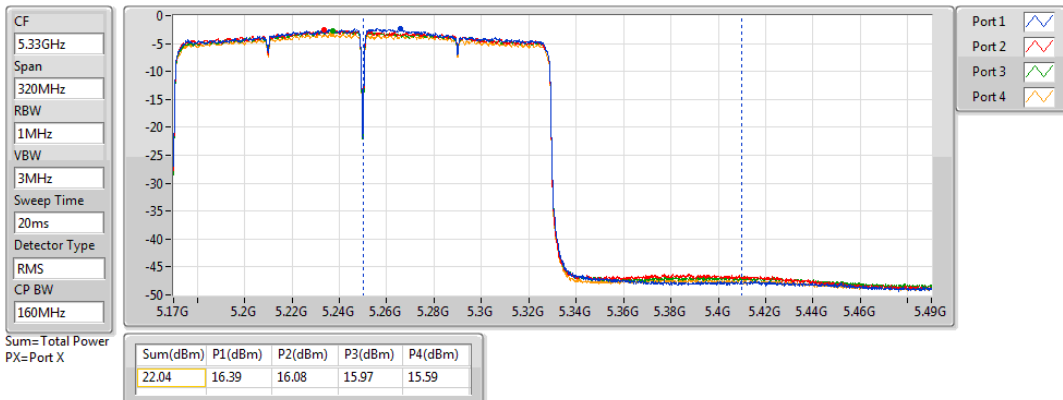


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

23/07/2019





**For 4T2S
Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	22.37	0.17258
5.25-5.35GHz	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	23.93	0.24717
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	23.86	0.24322
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	23.88	0.24434
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	22.29	0.16943



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.90	18.06	17.81	17.70	17.83	23.87	23.98
5300MHz	Pass	4.90	18.15	17.77	17.85	17.87	23.93	23.98
5320MHz	Pass	4.90	18.09	17.87	17.79	17.61	23.86	23.98
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.90	17.97	17.80	17.73	17.74	23.83	23.98
5310MHz	Pass	4.90	18.04	17.89	17.74	17.68	23.86	23.98
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	4.90	18.11	17.93	17.70	17.70	23.88	23.98
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.85	16.55	16.41	16.34	16.10	22.37	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.90	16.75	16.14	16.16	15.98	22.29	23.98

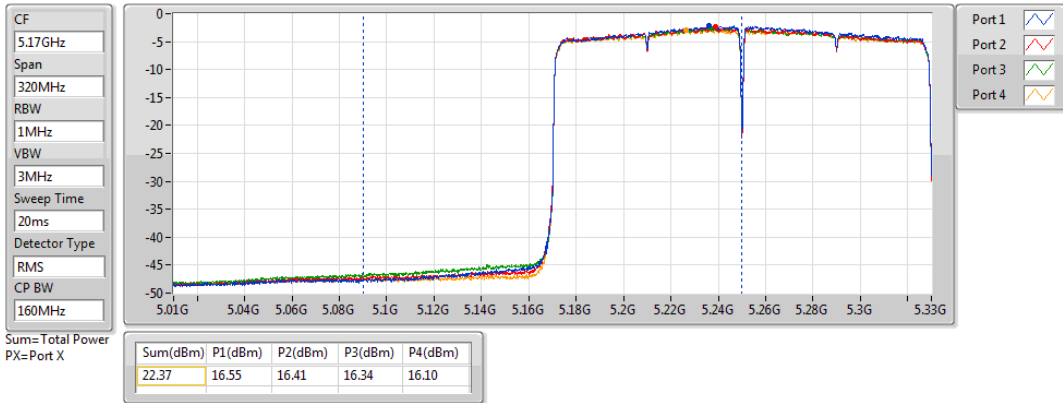
DG = Directional Gain; **Port X** = Port X output power

802.11ax HEW160-BF_Nss2,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

19/07/2019

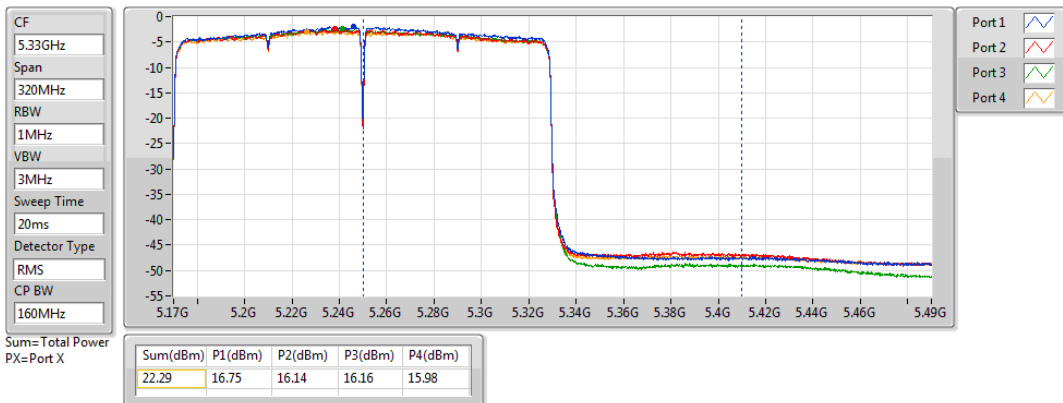


802.11ax HEW160-BF_Nss2,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

19/07/2019



**For 2T1S
Summary**

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-0.27
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_2TX	10.85
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	10.37
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	7.50
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	3.86
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-0.42

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	4.90	8.15	7.53	10.85	11.00
5300MHz	Pass	4.90	8.12	7.61	10.79	11.00
5320MHz	Pass	4.90	7.99	7.62	10.75	11.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	4.90	7.47	7.41	10.37	11.00
5300MHz	Pass	4.90	7.50	7.16	10.27	11.00
5320MHz	Pass	4.90	7.46	7.24	10.29	11.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	4.90	4.79	4.32	7.50	11.00
5310MHz	Pass	4.90	4.76	4.26	7.44	11.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	4.90	1.21	0.71	3.86	11.00
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.85	-3.04	-3.50	-0.27	17.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.90	-2.99	-3.82	-0.42	11.00

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

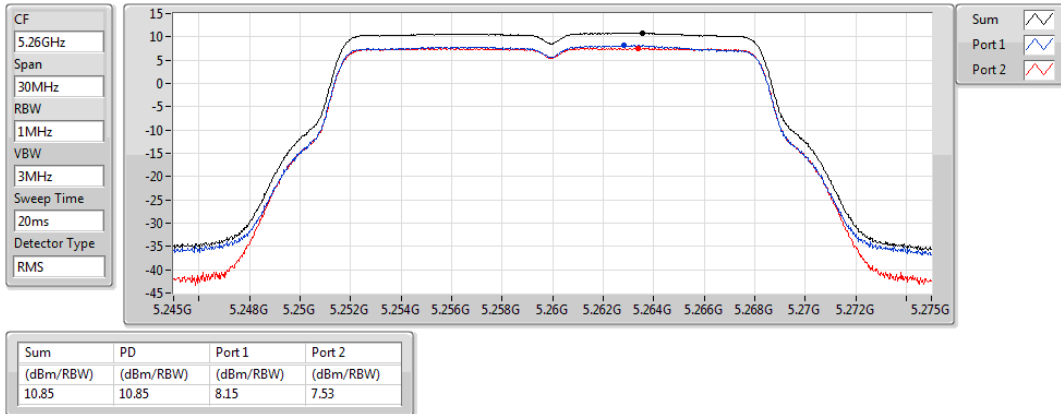
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz

19/07/2019

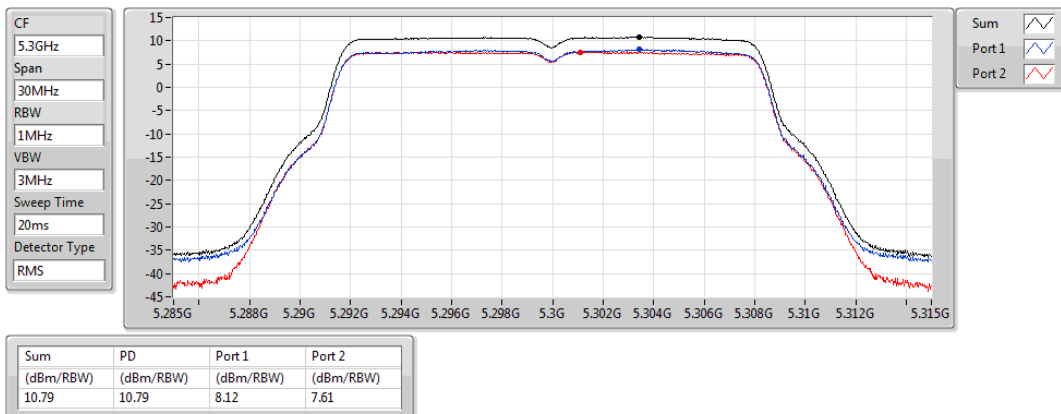


802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

19/07/2019

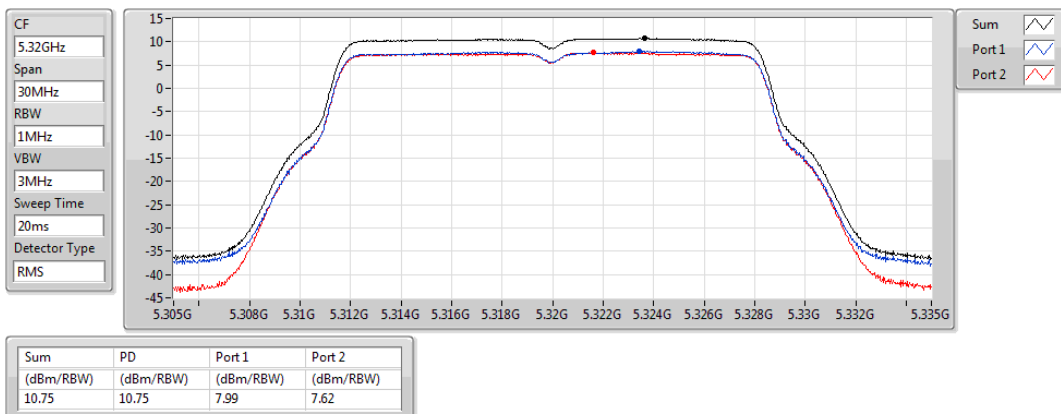


802.11a_Nss1,(6Mbps)_2TX

PSD

5320MHz

19/07/2019

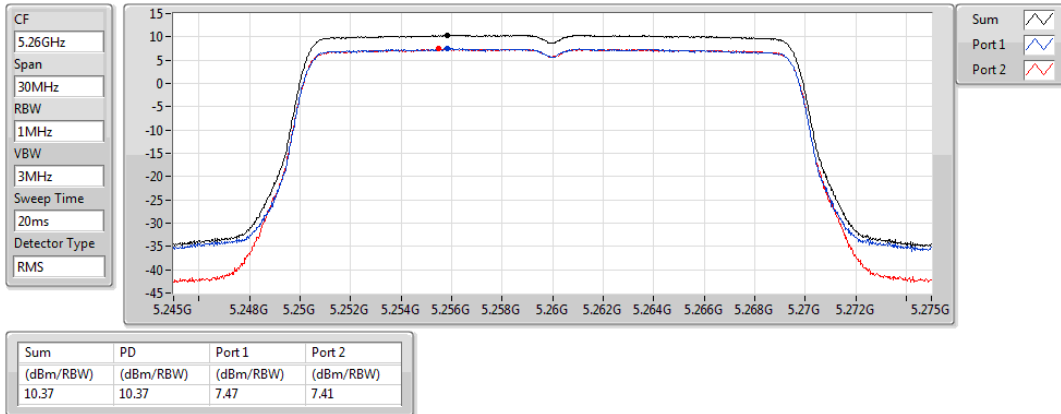


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5260MHz

19/07/2019

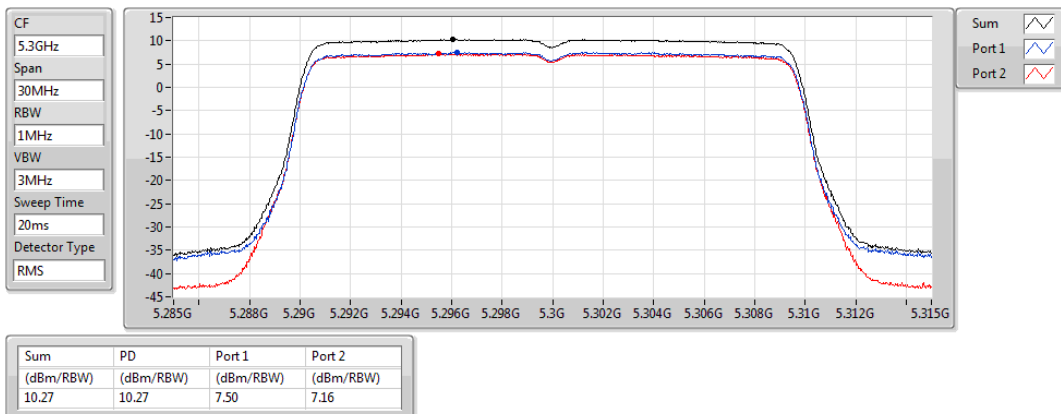


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5300MHz

19/07/2019

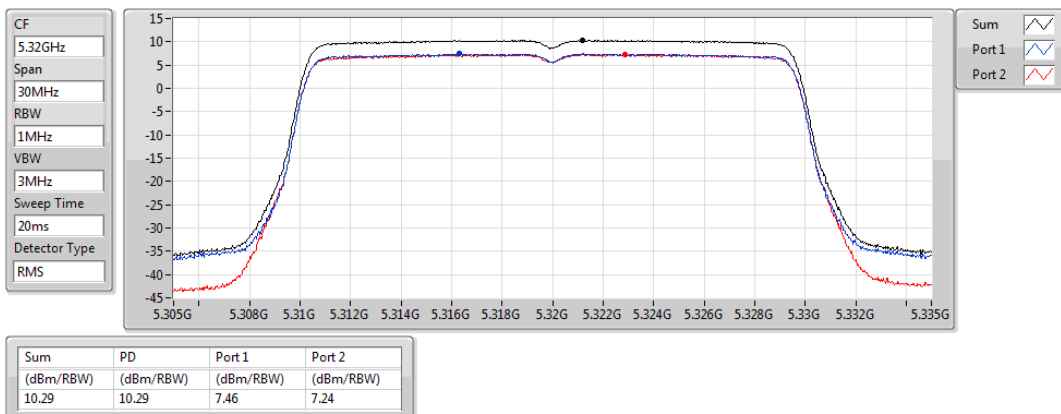


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5320MHz

19/07/2019

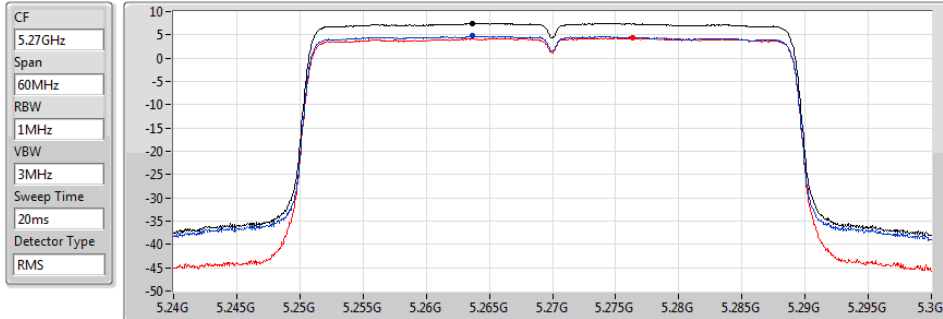


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5270MHz

19/07/2019



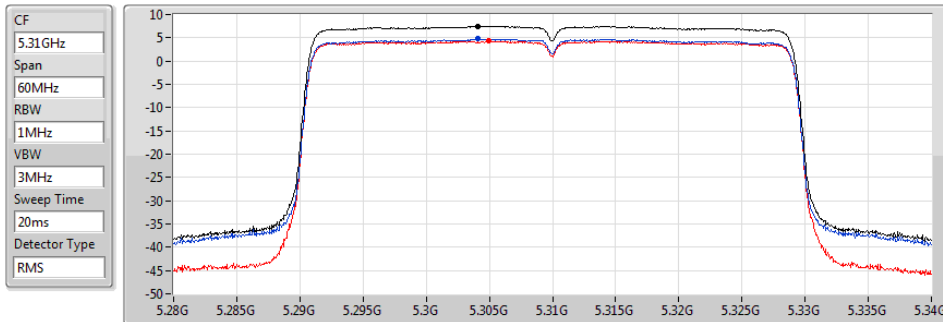
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.50	7.50	4.79	4.32

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5310MHz

19/07/2019



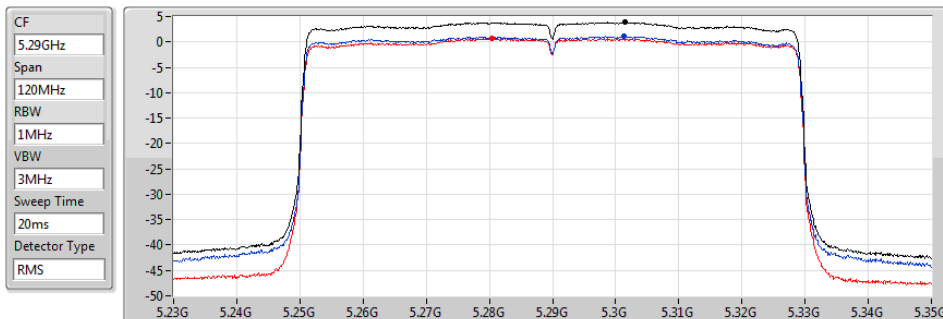
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.44	7.44	4.76	4.26

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

PSD

5290MHz

19/07/2019



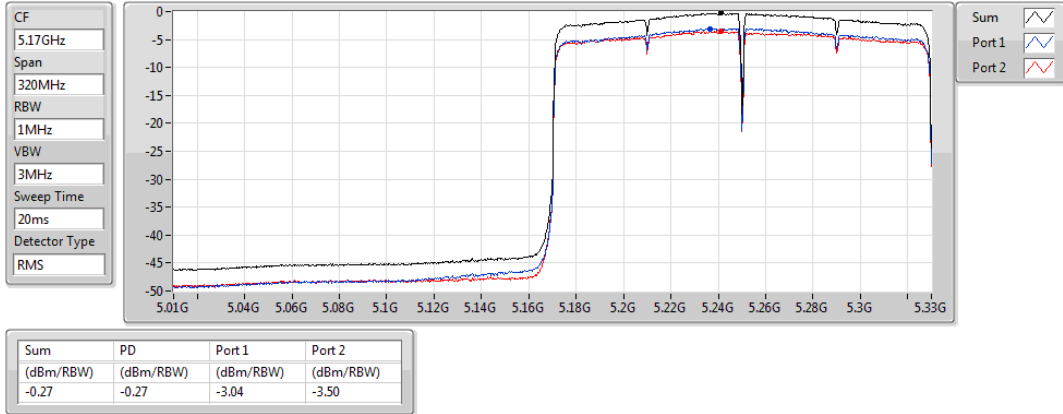
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.86	3.86	1.21	0.71

802.11ax HEW160-BF_Nss1,(MCS0)_2TX

PSD

5250MHz Straddle 5.15-5.25GHz

19/07/2019

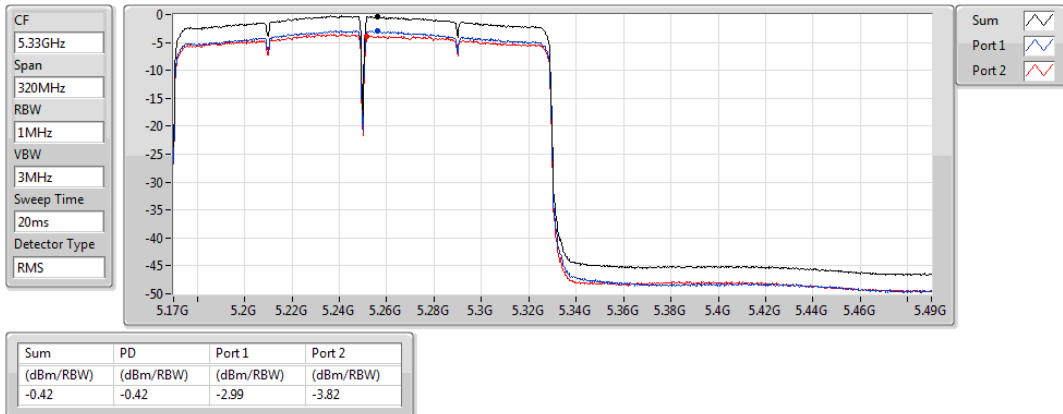


802.11ax HEW160-BF_Nss1,(MCS0)_2TX

PSD

5250MHz Straddle 5.25-5.35GHz

19/07/2019



**For 2T2S
Summary**

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW160_Nss2,(MCS0)_2TX	2.92
5.25-5.35GHz	-
802.11ax HEW20_Nss2,(MCS0)_2TX	10.26
802.11ax HEW40_Nss2,(MCS0)_2TX	7.79
802.11ax HEW80_Nss2,(MCS0)_2TX	4.95
802.11ax HEW160_Nss2,(MCS0)_2TX	2.67

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)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	1.89	7.53	7.18	10.26	11.00
5300MHz	Pass	1.89	7.57	7	10.20	11.00
5320MHz	Pass	1.89	7.42	6.96	10.15	11.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	1.89	5.17	4.51	7.79	11.00
5310MHz	Pass	1.89	5.15	4.55	7.77	11.00
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	1.89	2.34	1.8	4.95	11.00
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	1.84	0.17	-0.34	2.92	17.00
5250MHz Straddle 5.25-5.35GHz	Pass	1.89	0.13	-0.73	2.67	11.00

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

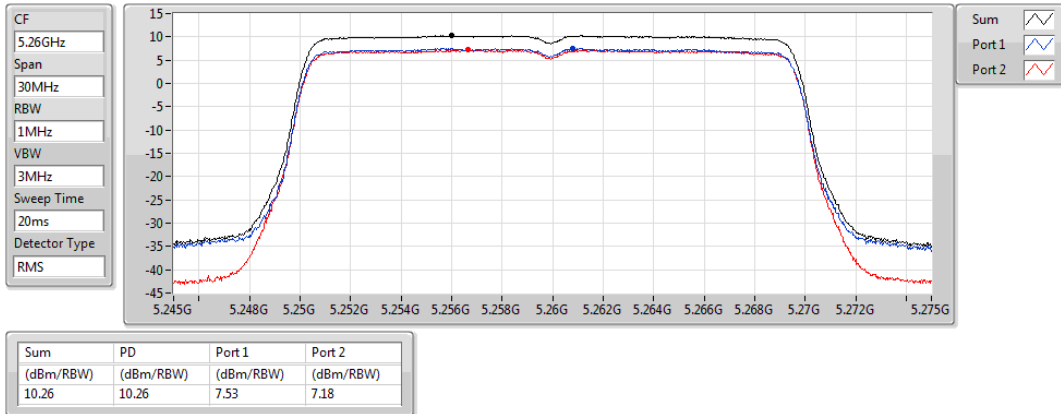
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5260MHz

22/07/2019

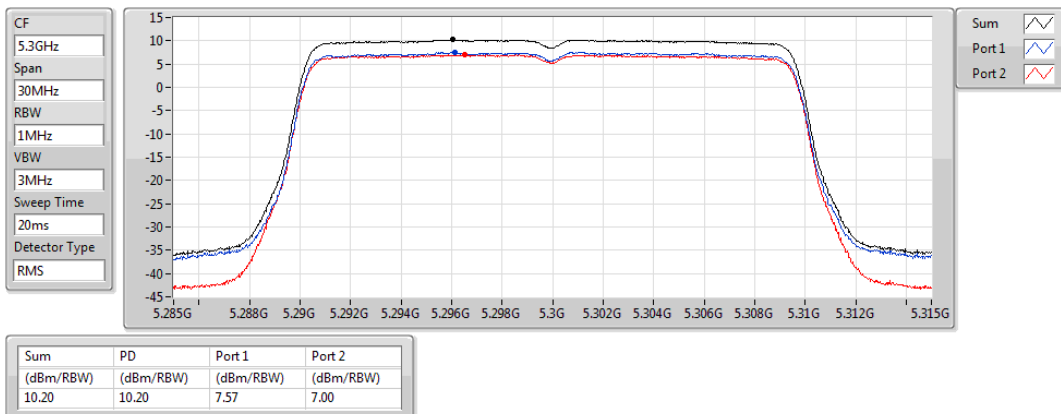


802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5300MHz

22/07/2019

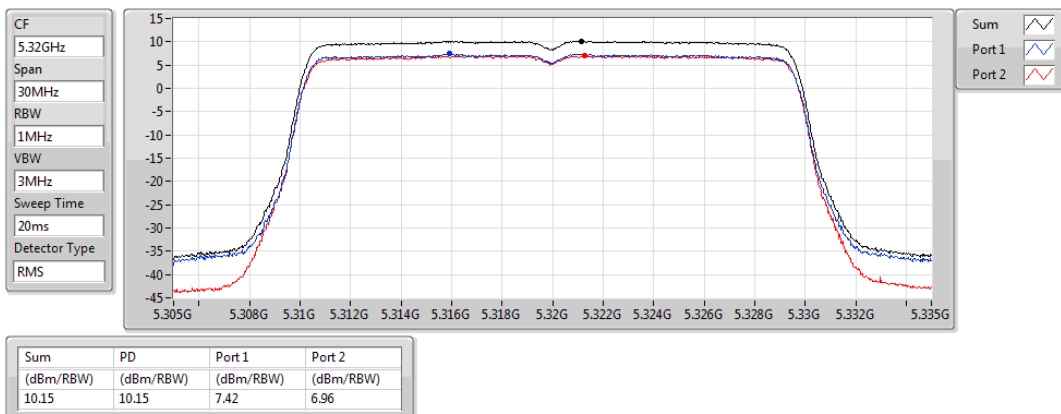


802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5320MHz

22/07/2019

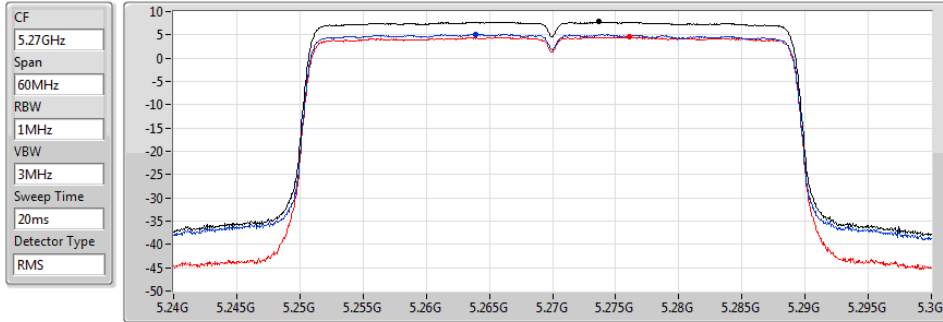


802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5270MHz

22/07/2019



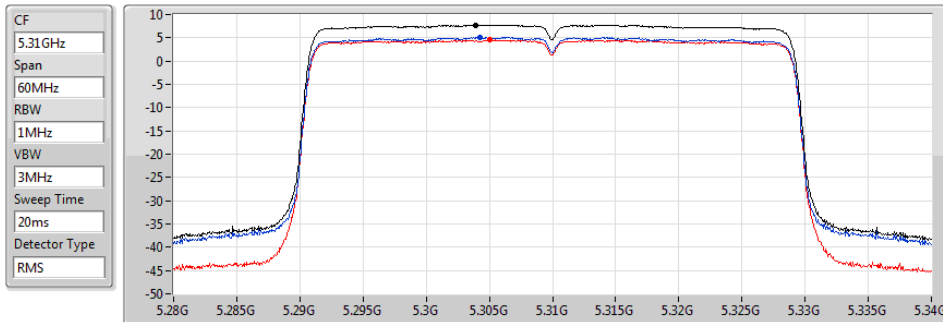
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.79	7.79	5.17	4.51

802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5310MHz

22/07/2019



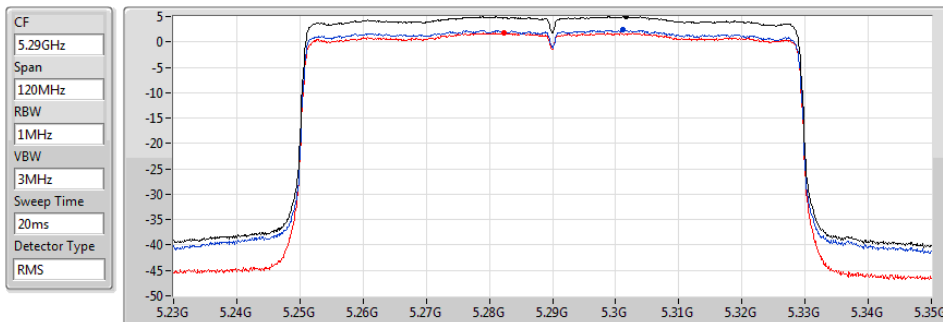
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.77	7.77	5.15	4.55

802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

5290MHz

22/07/2019



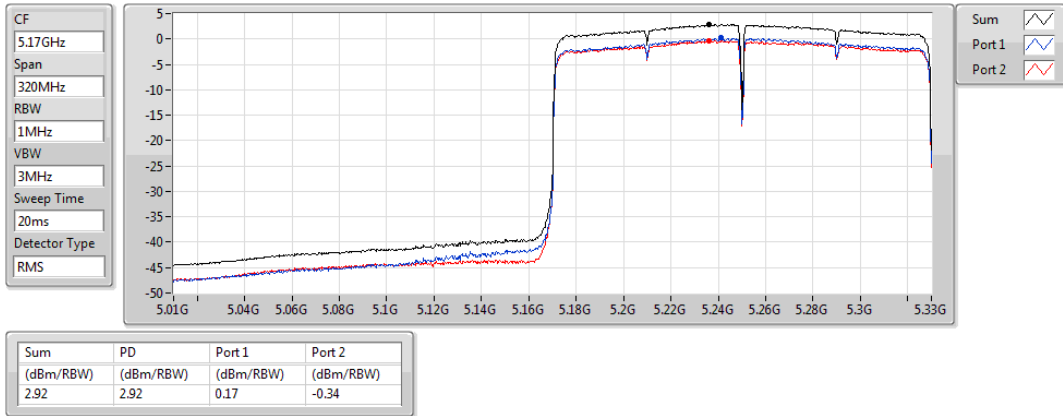
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.95	4.95	2.34	1.80

802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

5250MHz Straddle 5.15-5.25GHz

22/07/2019

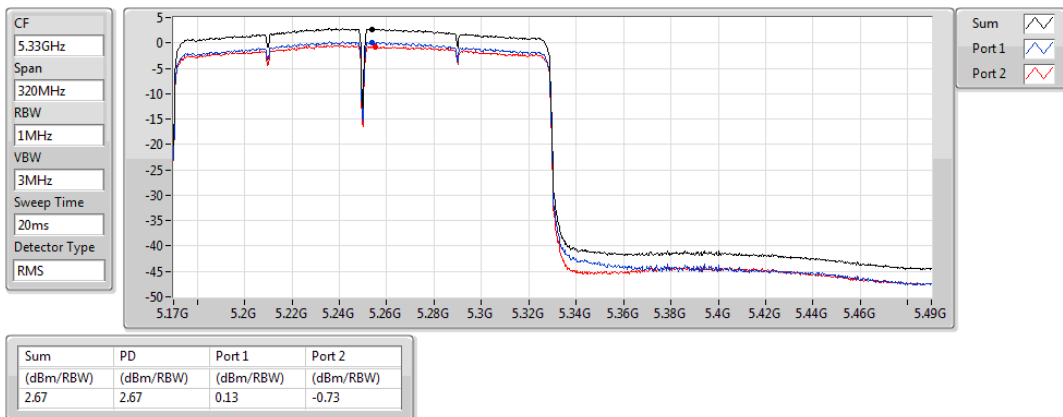


802.11ax HEW160_Nss2,(MCS0)_2TX

PSD

5250MHz Straddle 5.25-5.35GHz

22/07/2019



**For 4T1S
Summary**

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	2.92
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_4TX	9.01
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	8.36
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	5.81
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	2.77
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	2.91

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.91	3.36	3.08	2.96	2.98	9.01	9.09
5300MHz	Pass	7.91	3.48	2.88	3.03	2.82	8.96	9.09
5320MHz	Pass	7.91	3.27	2.88	2.95	2.74	8.93	9.09
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.91	2.67	2.67	2.35	2.43	8.36	9.09
5300MHz	Pass	7.91	2.26	2.41	2.16	2.10	8.17	9.09
5320MHz	Pass	7.91	2.66	2.52	2.26	2.30	8.34	9.09
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.91	0.15	-0.10	-0.43	-0.16	5.81	9.09
5310MHz	Pass	7.91	-0.31	-0.42	-0.52	-0.69	5.47	9.09
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.91	-3.07	-3.02	-3.34	-3.36	2.77	9.09
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.86	-2.79	-2.71	-3.03	-3.56	2.92	15.14
5250MHz Straddle 5.25-5.35GHz	Pass	7.91	-2.44	-2.97	-2.95	-3.47	2.91	9.09

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

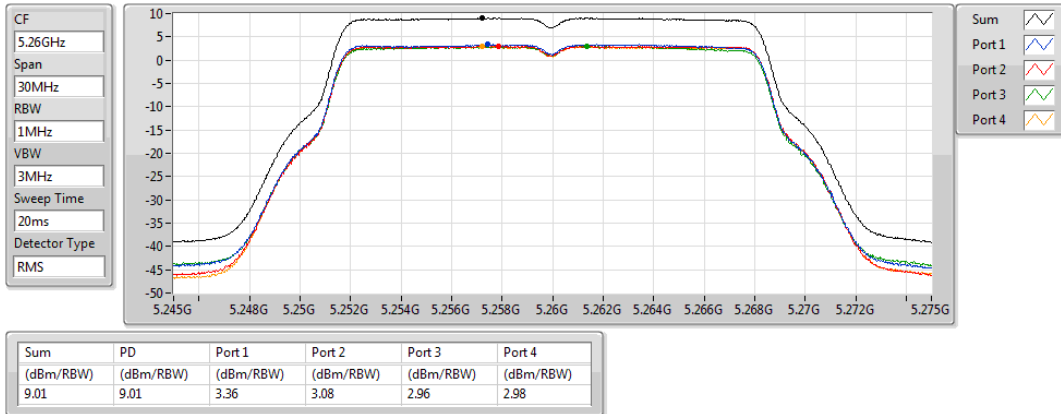
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5260MHz

18/07/2019

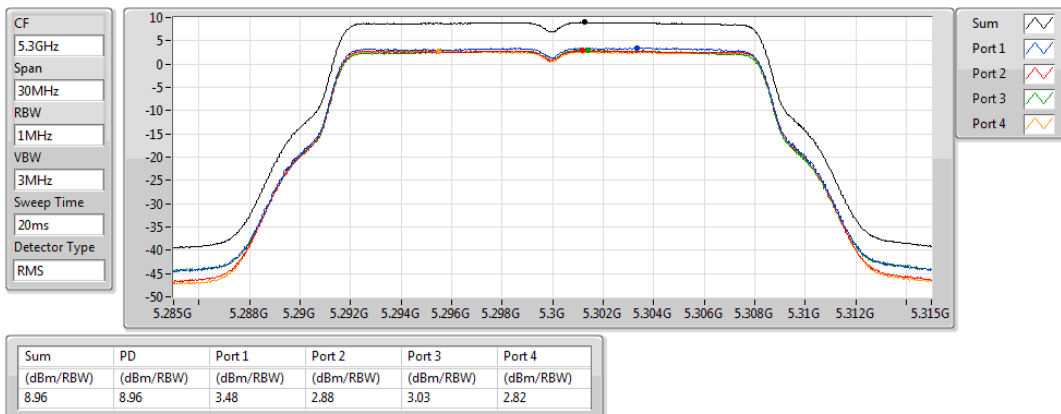


802.11a_Nss1,(6Mbps)_4TX

PSD

5300MHz

18/07/2019

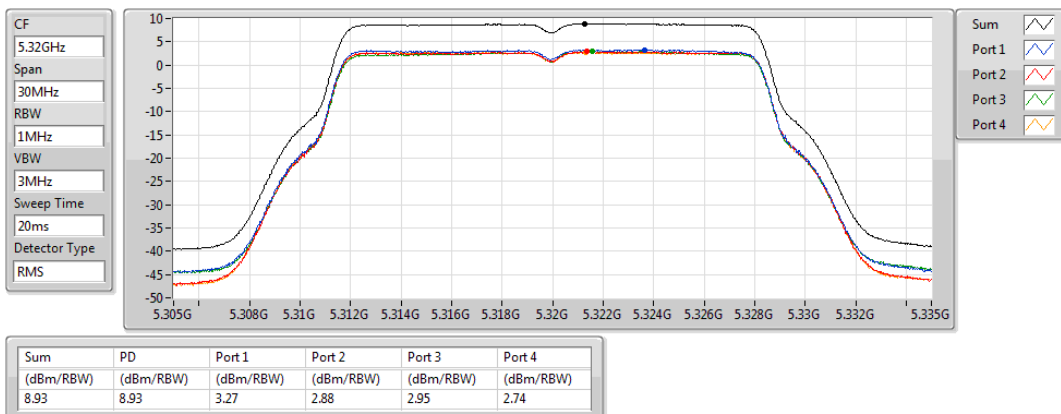


802.11a_Nss1,(6Mbps)_4TX

PSD

5320MHz

18/07/2019

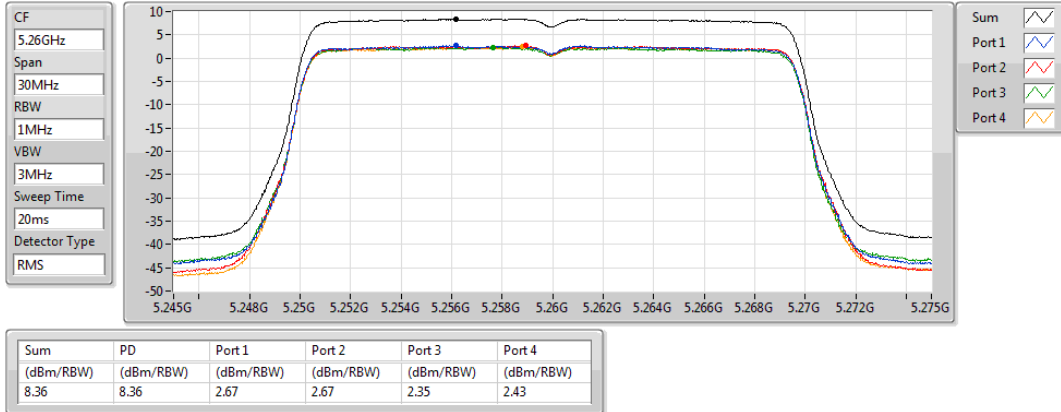


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5260MHz

18/07/2019

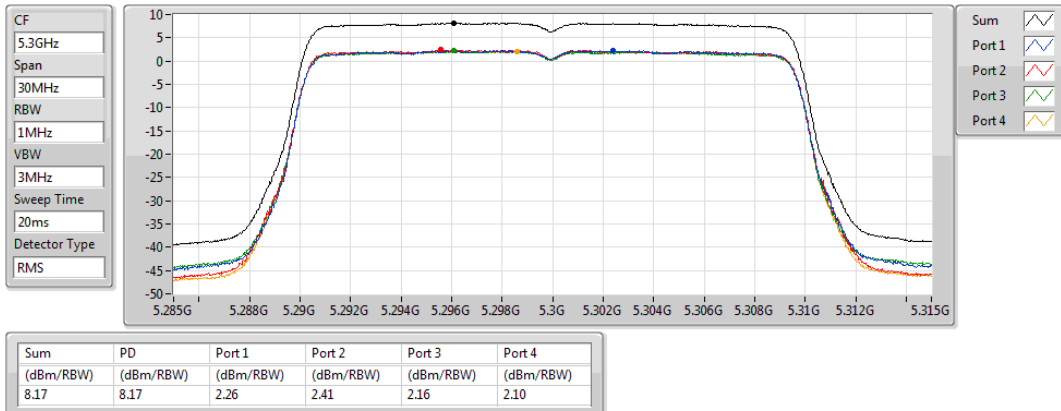


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5300MHz

18/07/2019

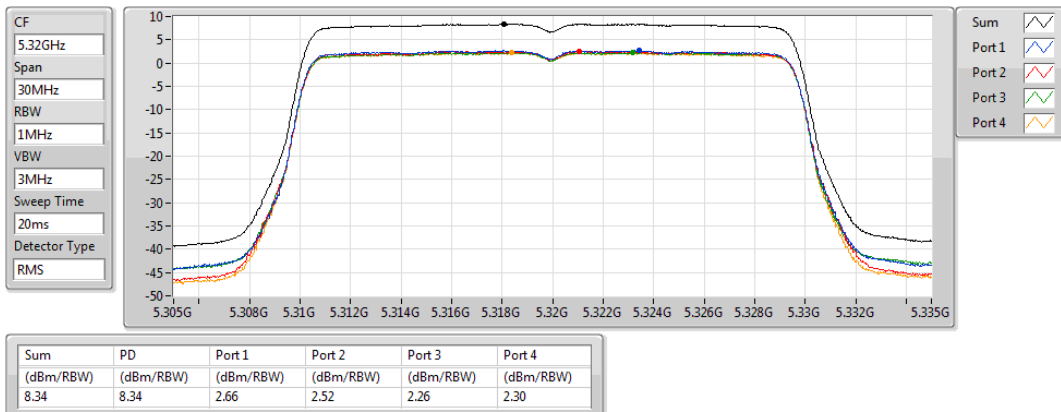


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5320MHz

18/07/2019

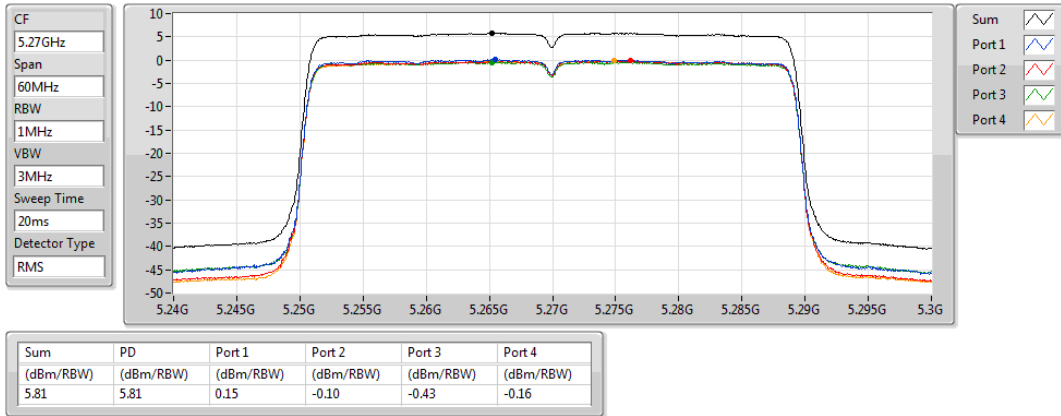


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5270MHz

18/07/2019

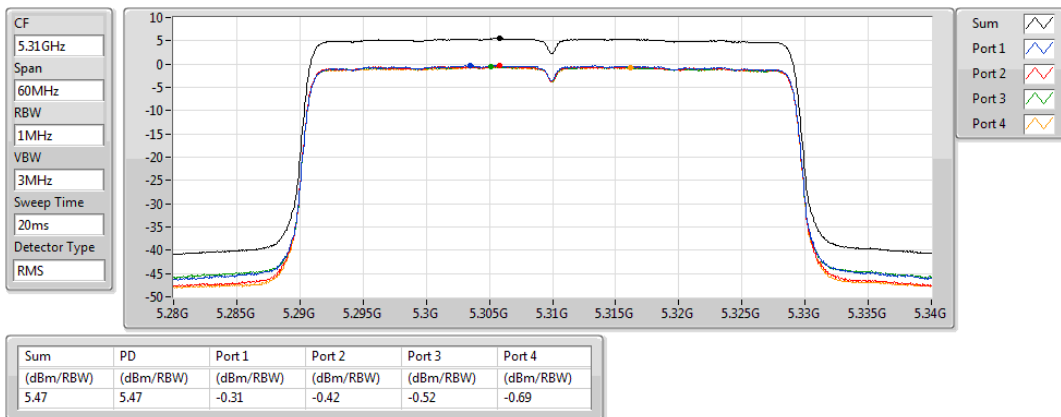


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5310MHz

18/07/2019

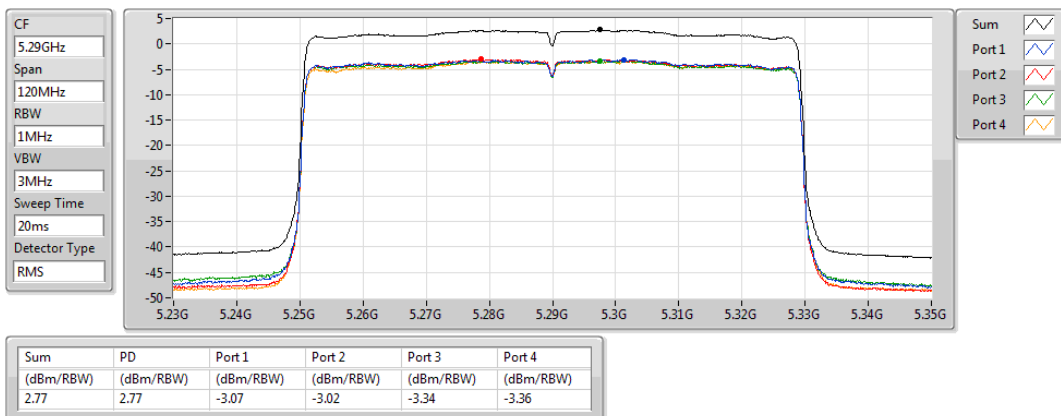


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5290MHz

18/07/2019

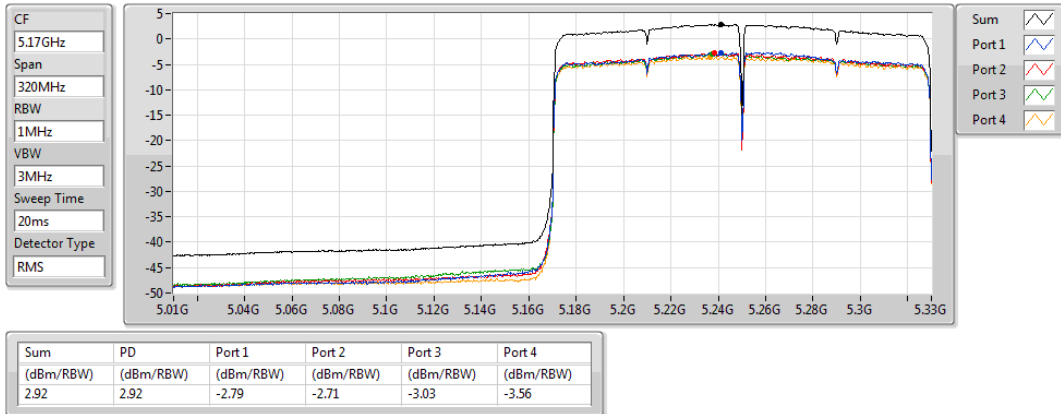


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

23/07/2019

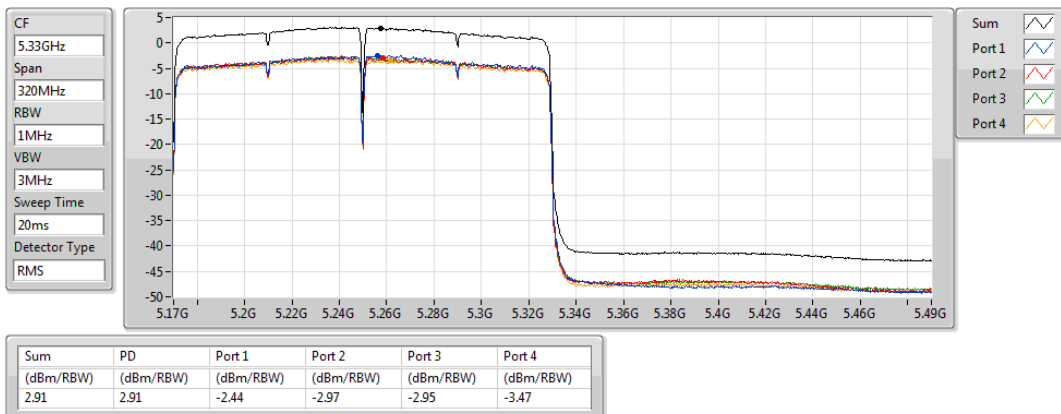


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.25-5.35GHz

23/07/2019



**For 4T2S
Summary**

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	3.28
5.25-5.35GHz	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	10.33
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	7.44
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	4.60
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	3.10

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)
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.90	4.71	4.52	4.15	4.32	10.29	11.00
5300MHz	Pass	4.90	4.73	4.38	4.29	4.29	10.33	11.00
5320MHz	Pass	4.90	4.74	4.25	4.04	4.28	10.28	11.00
802.11ax HEW40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	4.90	1.78	1.75	1.23	1.60	7.44	11.00
5310MHz	Pass	4.90	1.70	1.41	1.41	1.40	7.42	11.00
802.11ax HEW80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	4.90	-0.83	-1.26	-1.22	-1.34	4.60	11.00
802.11ax HEW160-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.85	-2.24	-2.60	-2.75	-2.80	3.28	17.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.90	-2.24	-2.84	-2.95	-3.06	3.10	11.00

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

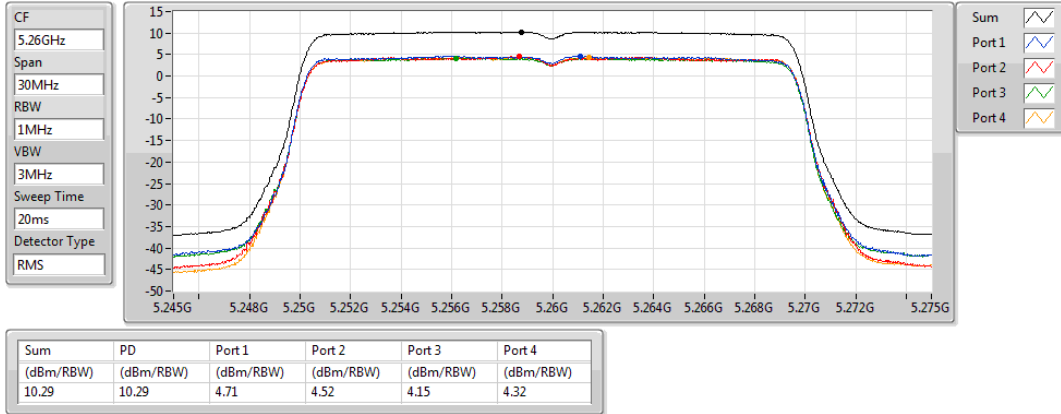
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

PSD

5260MHz

19/07/2019

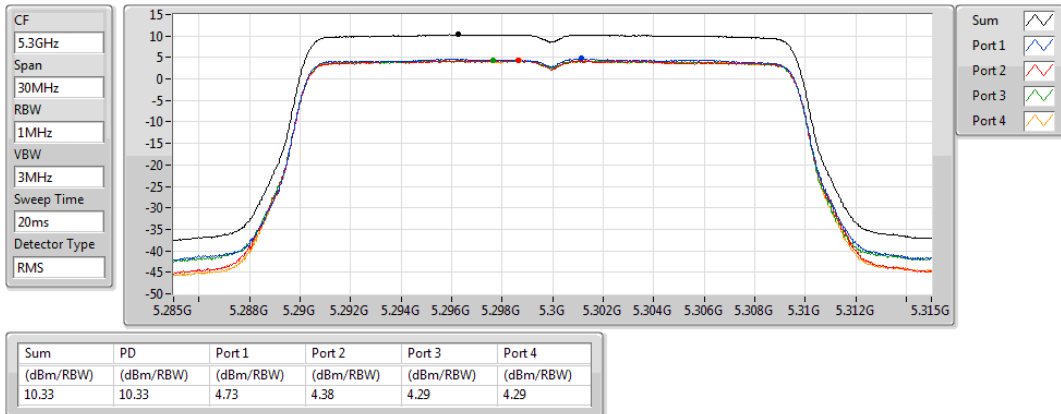


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

PSD

5300MHz

19/07/2019

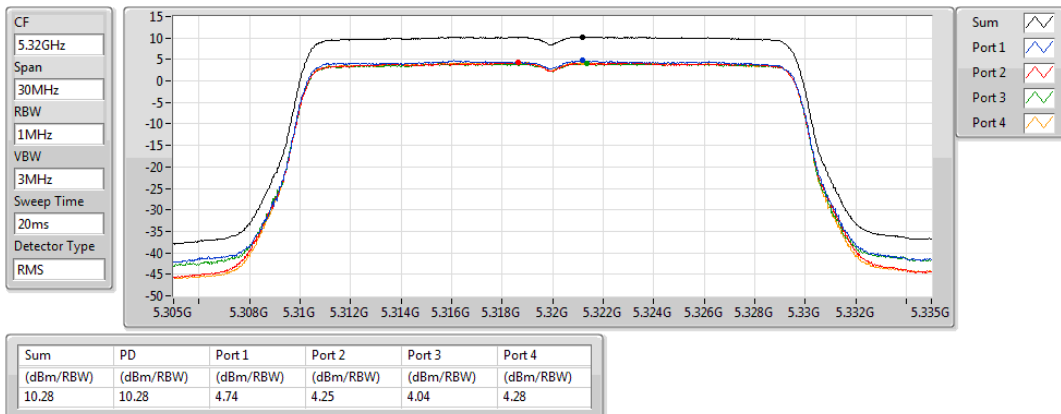


802.11ax HEW20-BF_Nss2,(MCS0)_4TX

PSD

5320MHz

19/07/2019

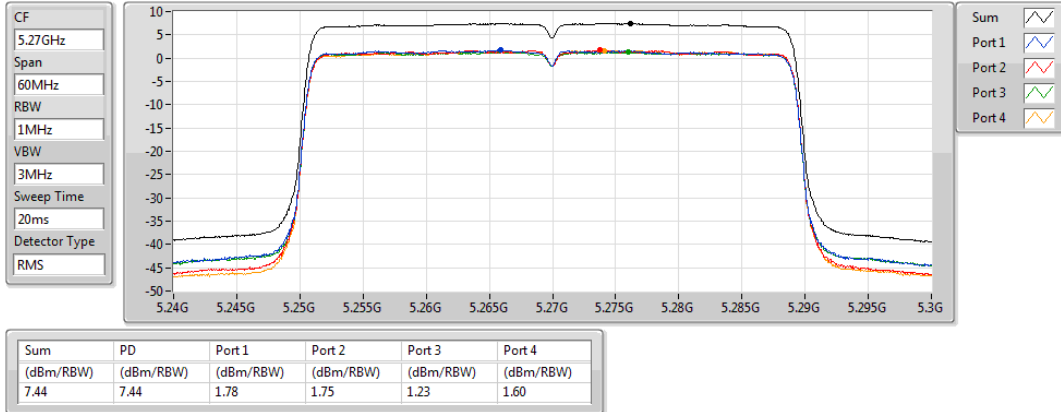


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

PSD

5270MHz

19/07/2019

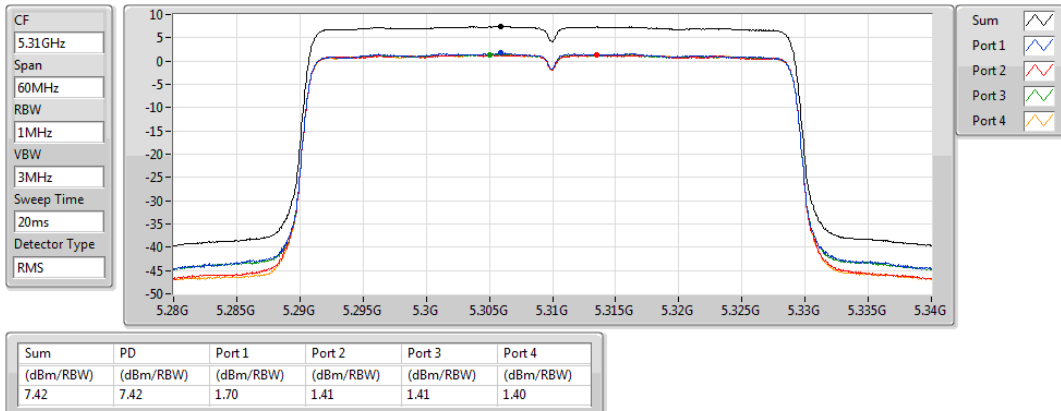


802.11ax HEW40-BF_Nss2,(MCS0)_4TX

PSD

5310MHz

19/07/2019

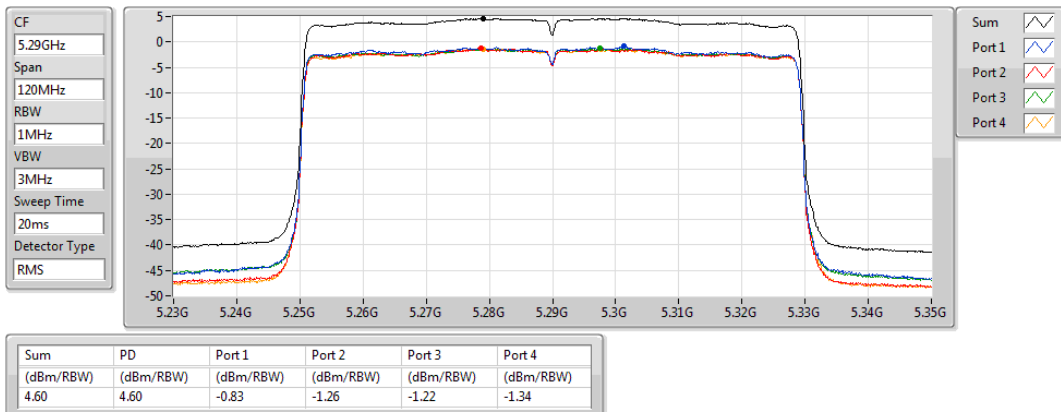


802.11ax HEW80-BF_Nss2,(MCS0)_4TX

PSD

5290MHz

19/07/2019

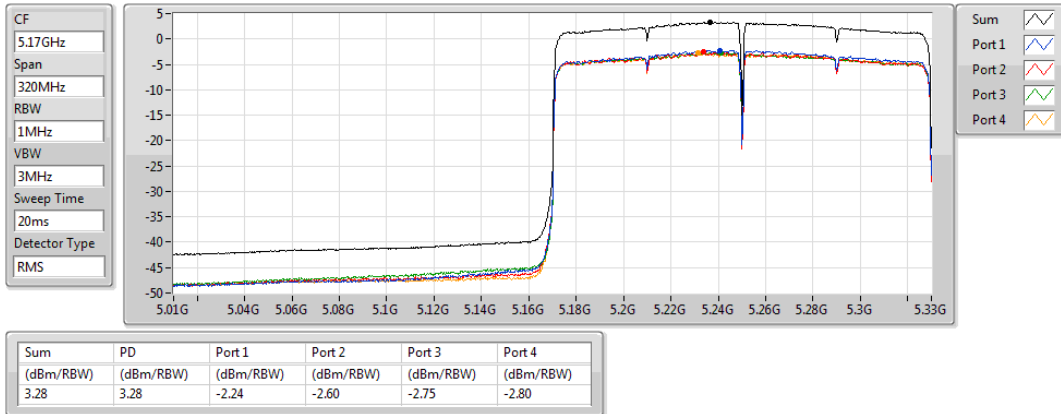


802.11ax HEW160-BF_Nss2,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

19/07/2019

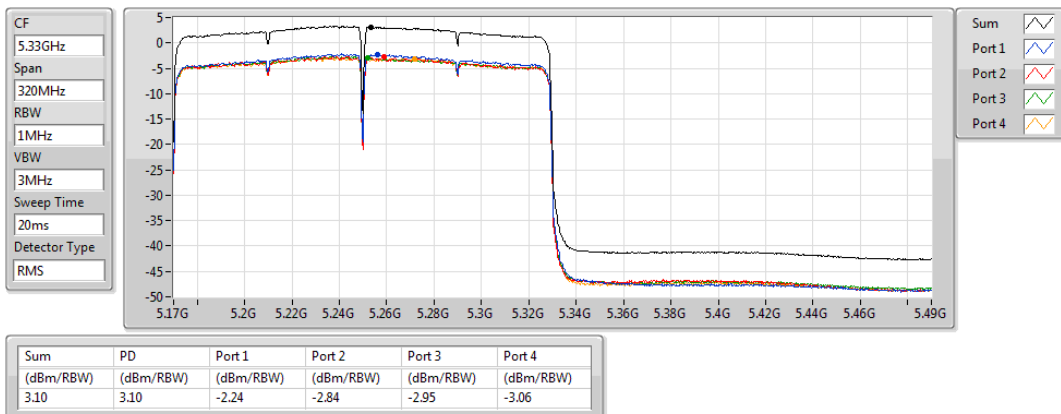


802.11ax HEW160-BF_Nss2,(MCS0)_4TX

PSD

5250MHz Straddle 5.25-5.35GHz

19/07/2019





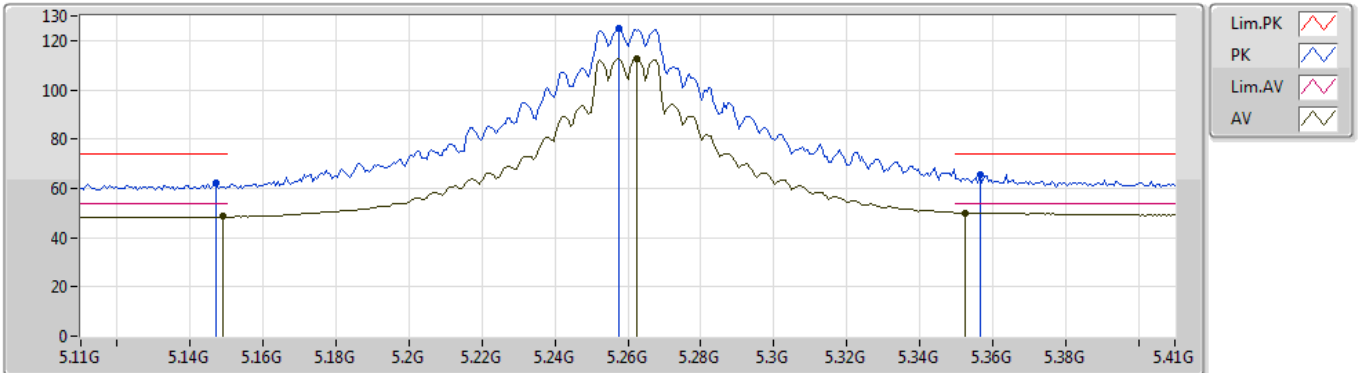
**For 2T1S / For non-beamforming mode
Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	5.3512G	73.98	74.00	-0.02	7.21	3	Vertical	341	1.18	-

802.11a_Nss1,(6Mbps)_2TX

22/07/2019

5260MHz_TX



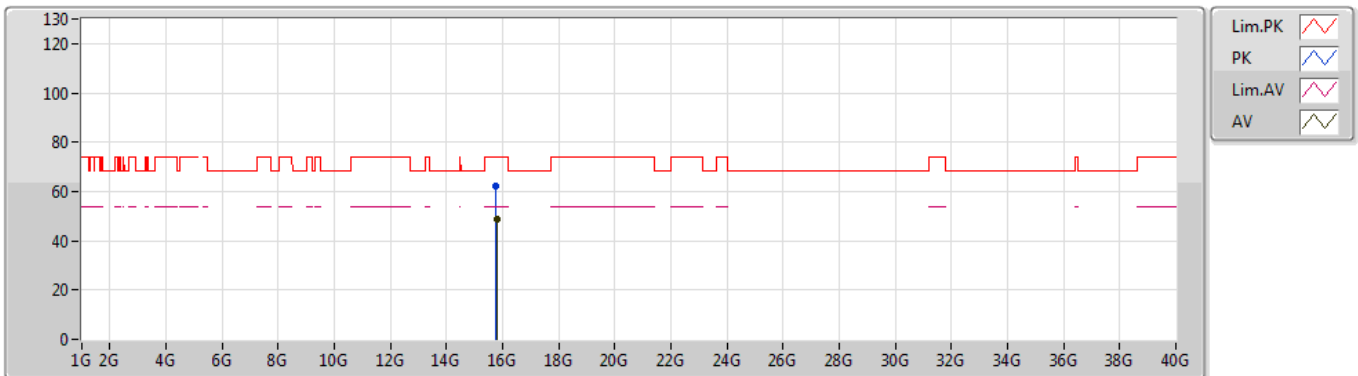
EUT_Z_2TX
Setting 116
06-C-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1472G	62.15	74.00	-11.85	7.34	3	Vertical	336	1.02	-				
AV	5.149G	48.50	54.00	-5.50	7.33	3	Vertical	336	1.02	-				
PK	5.2576G	124.78	Inf	-Inf	7.13	3	Vertical	336	1.02	-				
AV	5.2624G	112.78	Inf	-Inf	7.14	3	Vertical	336	1.02	-				
PK	5.3566G	65.65	74.00	-8.35	7.23	3	Vertical	336	1.02	-				
AV	5.3524G	50.04	54.00	-3.96	7.22	3	Vertical	336	1.02	-				

802.11a_Nss1,(6Mbps)_2TX

22/07/2019

5260MHz_TX



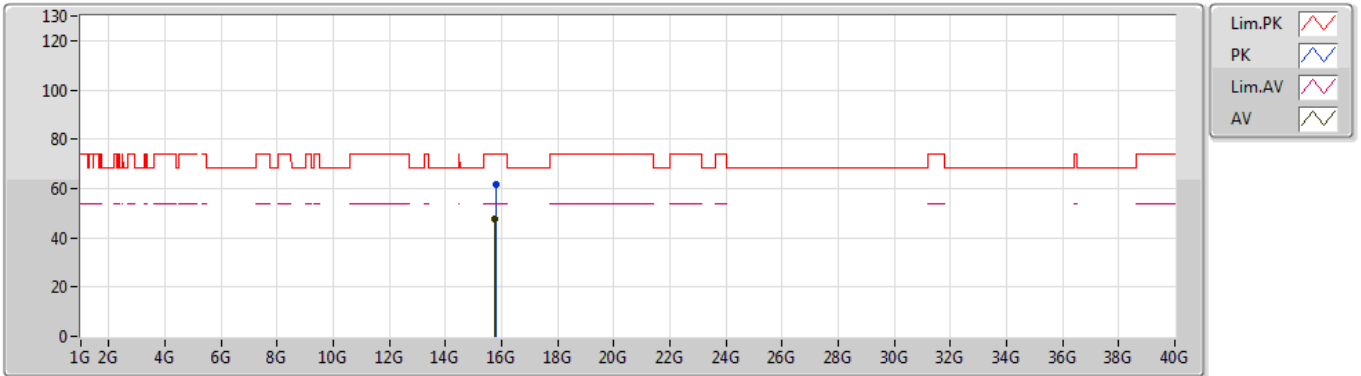
EUT_Z_2TX
Setting 116
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.76926G	62.35	74.00	-11.65	17.21	3	Vertical	2	2.80	-				
AV	15.77988G	48.92	54.00	-5.08	17.17	3	Vertical	2	2.80	-				

802.11a_Nss1,(6Mbps)_2TX

22/07/2019

5260MHz_TX



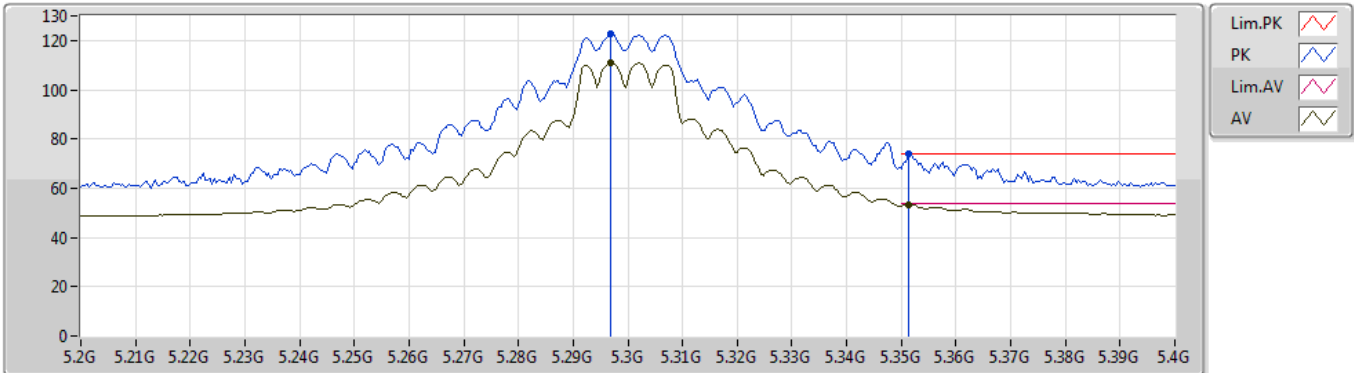
EUT_Z_2TX
Setting 116
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.78924G	61.64	74.00	-12.36	17.14	3	Horizontal	194	1.50	-				
AV	15.77124G	47.68	54.00	-6.32	17.21	3	Horizontal	194	1.50	-				

802.11a_Nss1,(6Mbps)_2TX

22/07/2019

5300MHz_TX



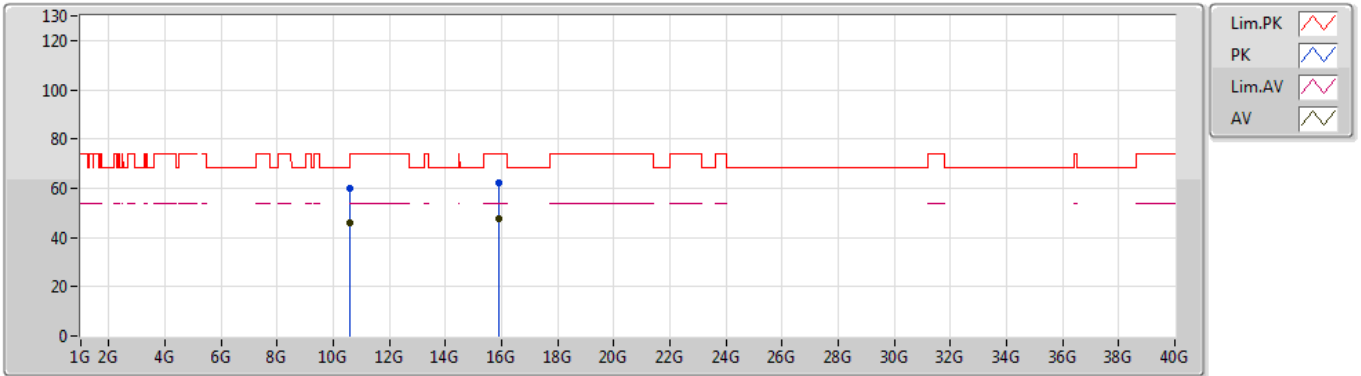
EUT Z_2TX
Setting 110
06-C-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	5.2968G	122.46	Inf	-Inf	7.07	3	Vertical	341	1.18	-			
AV	5.2968G	110.72	Inf	-Inf	7.07	3	Vertical	341	1.18	-			
PK	5.3512G	73.98	74.00	-0.02	7.21	3	Vertical	341	1.18	-			
AV	5.3512G	53.51	54.00	-0.49	7.21	3	Vertical	341	1.18	-			

802.11a_Nss1,(6Mbps)_2TX

02/08/2019

5300MHz_TX



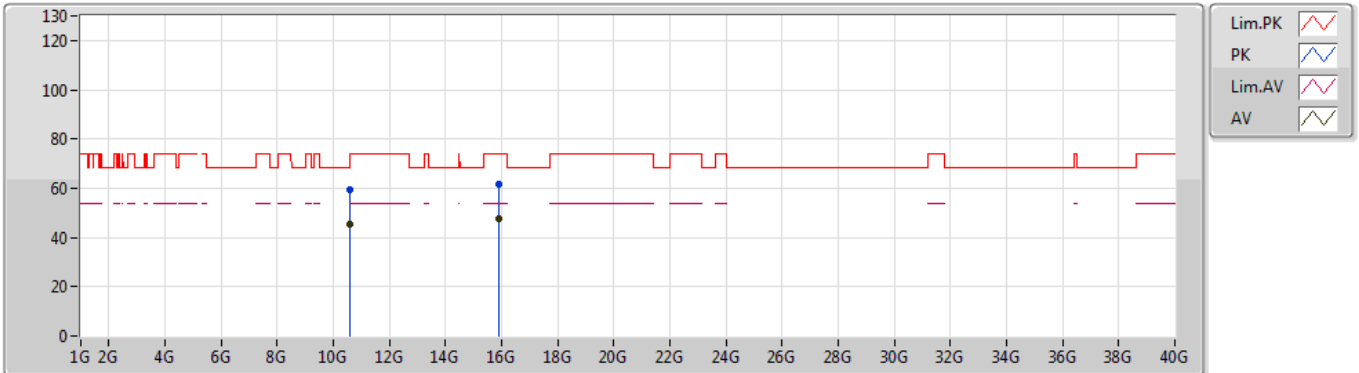
EUT_Z_2TX
Setting 110
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.60328G	59.71	74.00	-14.29	16.44	3	Vertical	180	1.89	-				
AV	10.6003G	46.15	54.00	-7.85	16.44	3	Vertical	180	1.89	-				
PK	15.89376G	62.06	74.00	-11.94	16.75	3	Vertical	61	1.45	-				
AV	15.8916G	47.63	54.00	-6.37	16.76	3	Vertical	61	1.45	-				

802.11a_Nss1,(6Mbps)_2TX

02/08/2019

5300MHz_TX



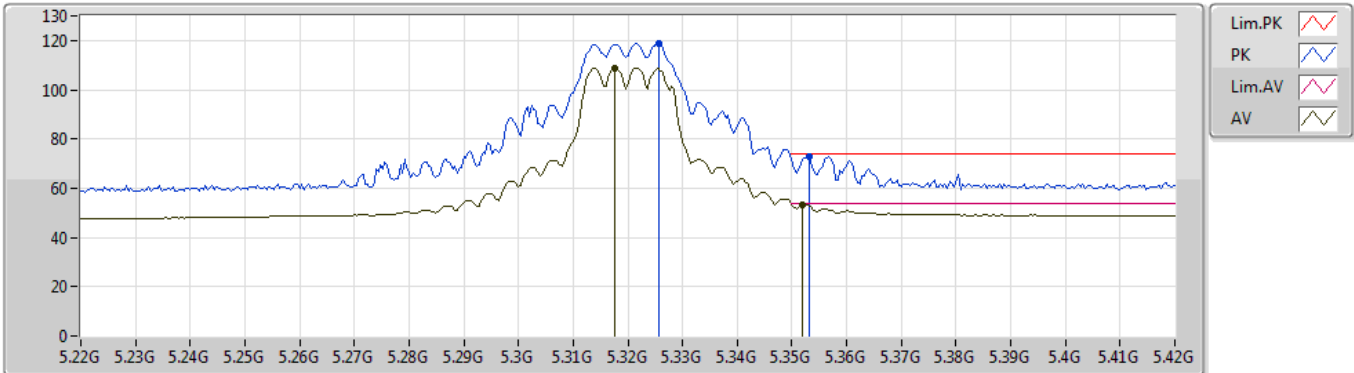
EUT_Z_2TX
Setting 110
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.60024G	59.24	74.00	-14.76	16.44	3	Horizontal	14	1.82	-				
AV	10.60606G	45.44	54.00	-8.56	16.45	3	Horizontal	14	1.82	-				
PK	15.90462G	61.51	74.00	-12.49	16.71	3	Horizontal	236	1.50	-				
AV	15.90258G	47.61	54.00	-6.39	16.72	3	Horizontal	236	1.50	-				

802.11a_Nss1,(6Mbps)_2TX

22/07/2019

5320MHz_TX



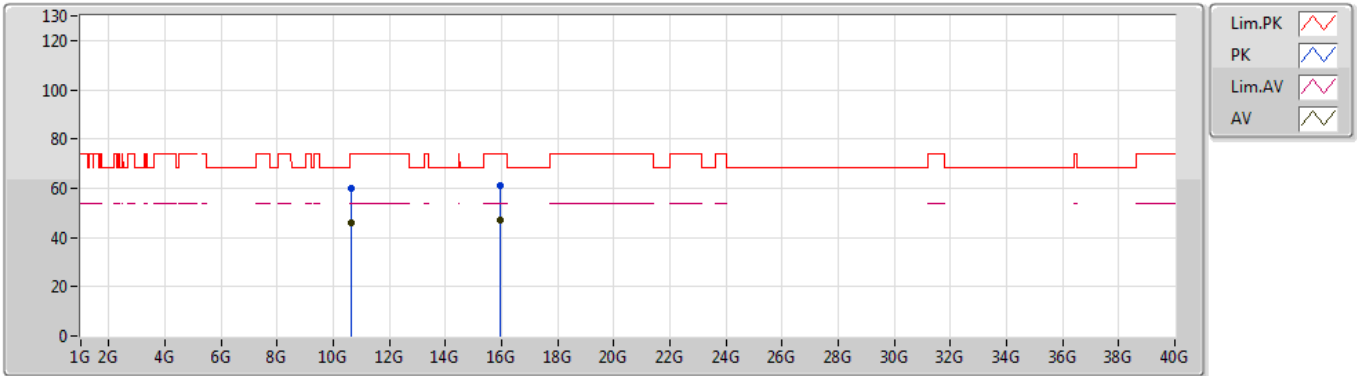
EUT_Z_2TX
Setting 94
06-K-3-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
PK	5.3256G	118.61	Inf	-Inf	7.15	3	Vertical	339	1.14	-				
AV	5.3176G	108.81	Inf	-Inf	7.11	3	Vertical	339	1.14	-				
PK	5.3532G	73.02	74.00	-0.98	7.22	3	Vertical	339	1.14	-				
AV	5.352G	53.28	54.00	-0.72	7.22	3	Vertical	339	1.14	-				

802.11a_Nss1,(6Mbps)_2TX

22/07/2019

5320MHz_TX



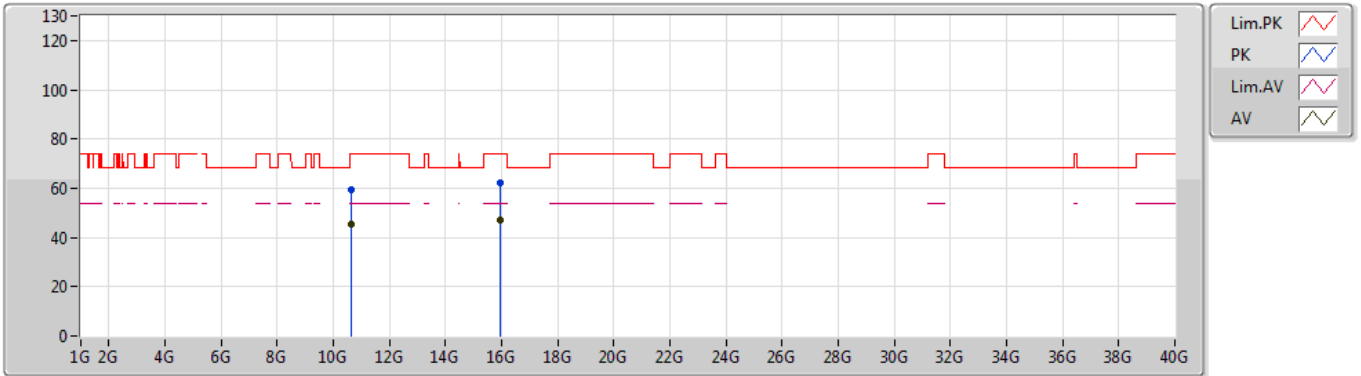
EUT_Z_2TX
Setting 94
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.64132G	59.95	74.00	-14.05	16.51	3	Vertical	159	2.49	-				
AV	10.64006G	45.96	54.00	-8.04	16.50	3	Vertical	159	2.49	-				
PK	15.94878G	60.85	74.00	-13.15	16.54	3	Vertical	30	1.50	-				
AV	15.9468G	47.21	54.00	-6.79	16.55	3	Vertical	30	1.50	-				

802.11a_Nss1,(6Mbps)_2TX

22/07/2019

5320MHz_TX



EUT_Z_2TX
Setting 94
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.6271G	59.48	74.00	-14.52	16.48	3	Horizontal	236	1.50	-				
AV	10.62746G	45.43	54.00	-8.57	16.48	3	Horizontal	236	1.50	-				
PK	15.95232G	62.15	74.00	-11.85	16.54	3	Horizontal	254	2.76	-				
AV	15.94716G	47.14	54.00	-6.86	16.55	3	Horizontal	254	2.76	-				



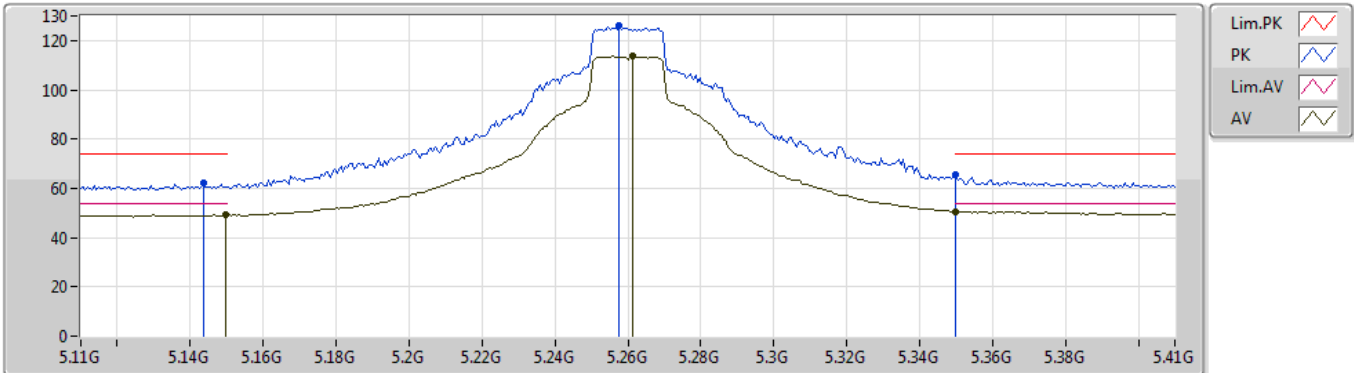
**2T1S / For beamforming mode
Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	AV	5.3504G	53.96	54.00	-0.04	7.21	3	Vertical	340	1.32	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

31/07/2019

5260MHz_TX



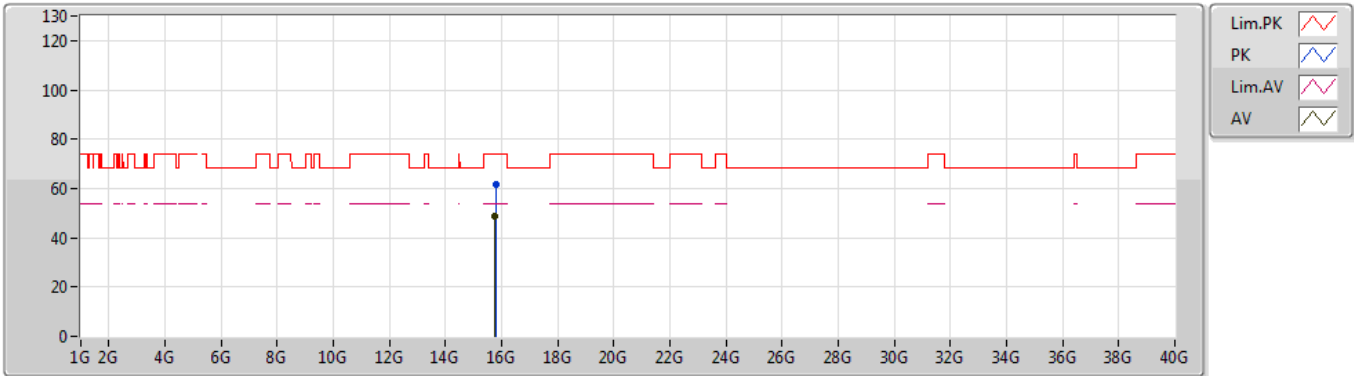
EUT Z_2TX
Setting 112
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1436G	62.26	74.00	-11.74	7.34	3	Vertical	341	1.33	-
AV	5.1496G	49.19	54.00	-4.81	7.33	3	Vertical	341	1.33	-
PK	5.2576G	125.98	Inf	-Inf	7.13	3	Vertical	341	1.33	-
AV	5.2612G	113.54	Inf	-Inf	7.14	3	Vertical	341	1.33	-
PK	5.35G	65.65	74.00	-8.35	7.21	3	Vertical	341	1.33	-
AV	5.35G	50.57	54.00	-3.43	7.21	3	Vertical	341	1.33	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

31/07/2019

5260MHz_TX



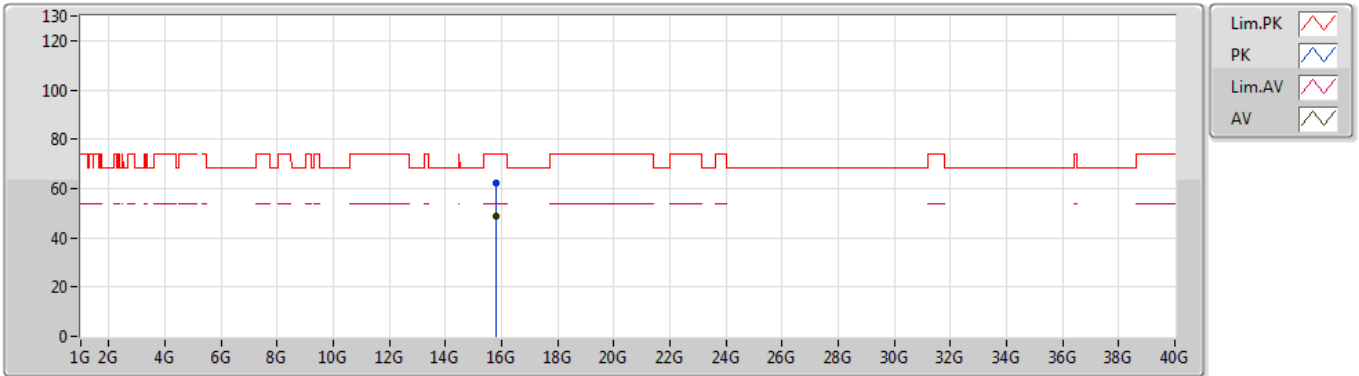
EUT_Z_2TX
Setting 112
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.78774G	61.81	74.00	-12.19	17.15	3	Vertical	14	1.11	-				
AV	15.76944G	48.71	54.00	-5.29	17.21	3	Vertical	14	1.11	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

31/07/2019

5260MHz_TX



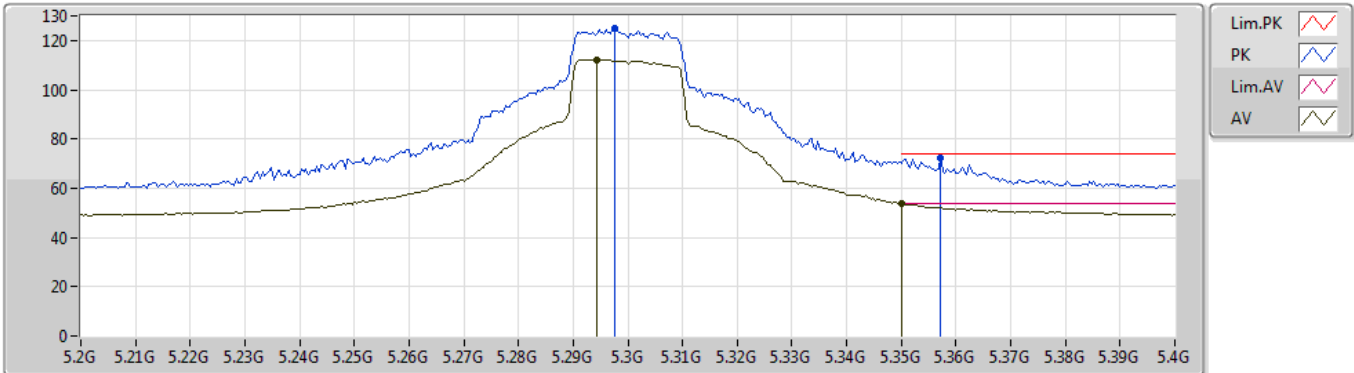
EUT_Z_2TX
Setting 112
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.79344G	62.44	74.00	-11.56	17.13	3	Horizontal	61	1.67	-				
AV	15.78876G	48.94	54.00	-5.06	17.14	3	Horizontal	61	1.67	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

31/07/2019

5300MHz_TX



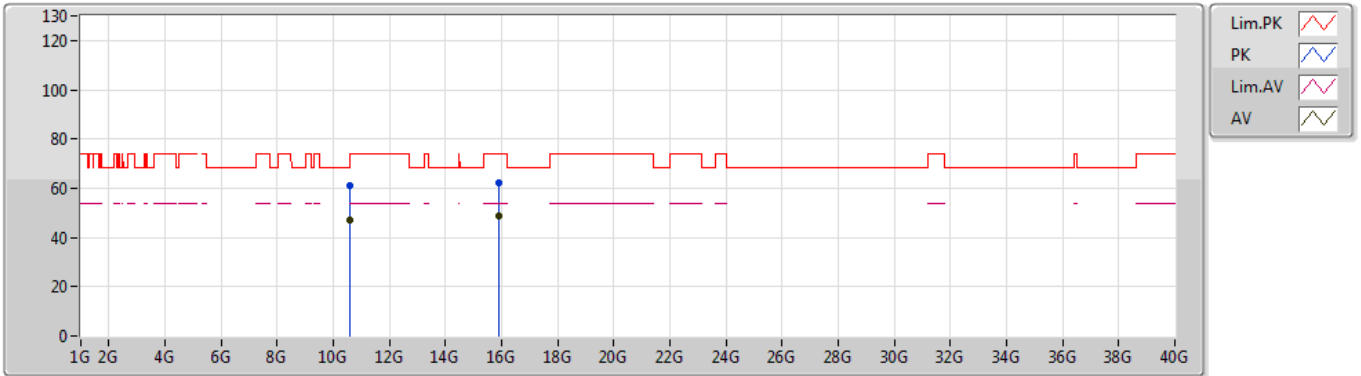
EUT_Z_2TX
Setting 104
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.2976G	124.94	Inf	-Inf	7.06	3	Vertical	345	2.01	-
AV	5.2944G	112.15	Inf	-Inf	7.07	3	Vertical	345	2.01	-
PK	5.3572G	72.39	74.00	-1.61	7.23	3	Vertical	345	2.01	-
AV	5.35G	53.86	54.00	-0.14	7.21	3	Vertical	345	2.01	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

02/08/2019

5300MHz_TX



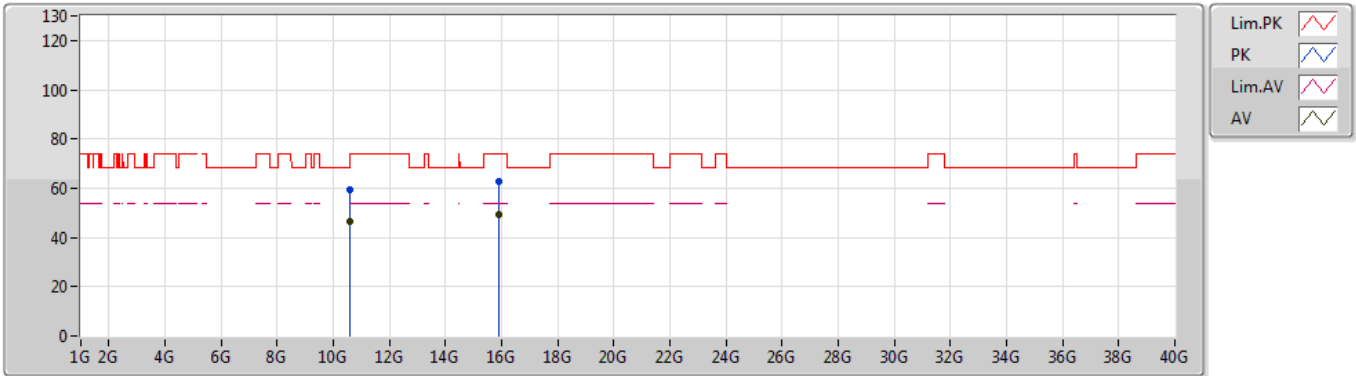
EUT_Z_2TX
Setting 104
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	10.60874G	60.89	74.00	-13.11	16.45	3	Vertical	229	1.91	-			
AV	10.60882G	47.34	54.00	-6.66	16.45	3	Vertical	229	1.91	-			
PK	15.90984G	62.09	74.00	-11.91	16.70	3	Vertical	103	1.50	-			
AV	15.90474G	48.84	54.00	-5.16	16.71	3	Vertical	103	1.50	-			

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

02/08/2019

5300MHz_TX



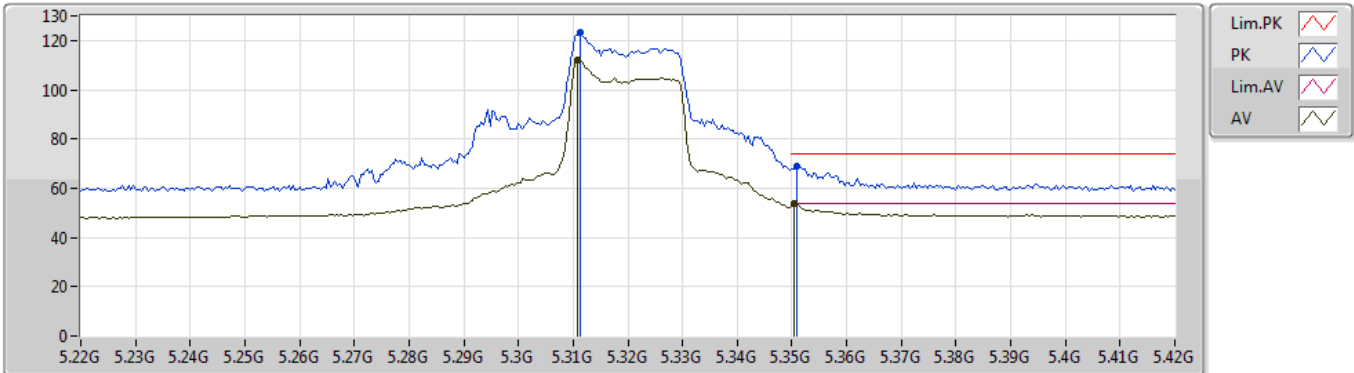
EUT_Z_2TX
Setting 104
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	10.6078G	59.55	74.00	-14.45	16.45	3	Horizontal	349	1.25	-			
AV	10.6012G	46.47	54.00	-7.53	16.44	3	Horizontal	349	1.25	-			
PK	15.90012G	62.71	74.00	-11.29	16.73	3	Horizontal	165	1.01	-			
AV	15.90792G	49.06	54.00	-4.94	16.70	3	Horizontal	165	1.01	-			

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

31/07/2019

5320MHz_TX



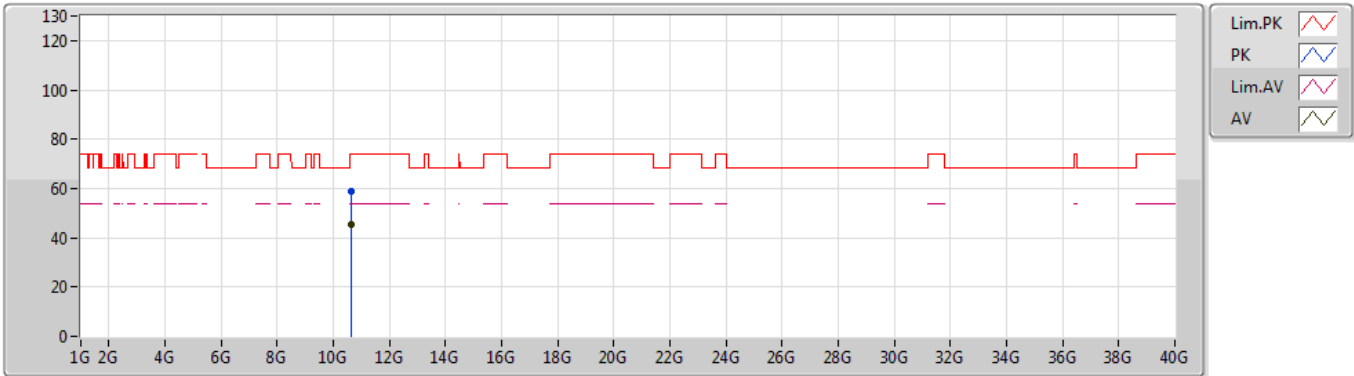
EUT_Z_2TX
Setting 92
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.3112G	123.46	Inf	-Inf	7.09	3	Vertical	354	2.32	-				
AV	5.3108G	111.81	Inf	-Inf	7.09	3	Vertical	354	2.32	-				
PK	5.3508G	68.87	74.00	-5.13	7.21	3	Vertical	354	2.32	-				
AV	5.3504G	53.80	54.00	-0.20	7.21	3	Vertical	354	2.32	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

31/07/2019

5320MHz_TX



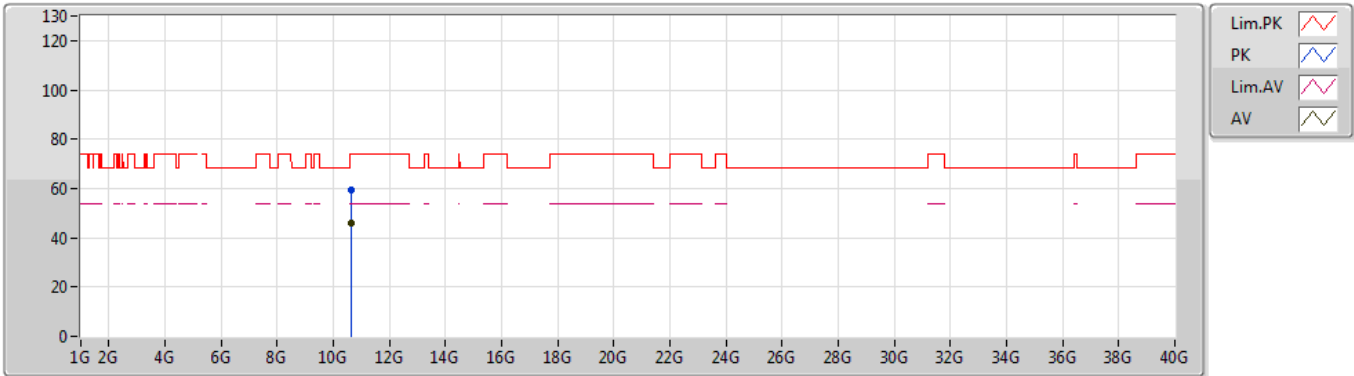
EUT_Z_2TX
Setting 92
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.63284G	58.73	74.00	-15.27	16.49	3	Vertical	0	1.47	-				
AV	10.63092G	45.38	54.00	-8.62	16.48	3	Vertical	0	1.47	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

31/07/2019

5320MHz_TX



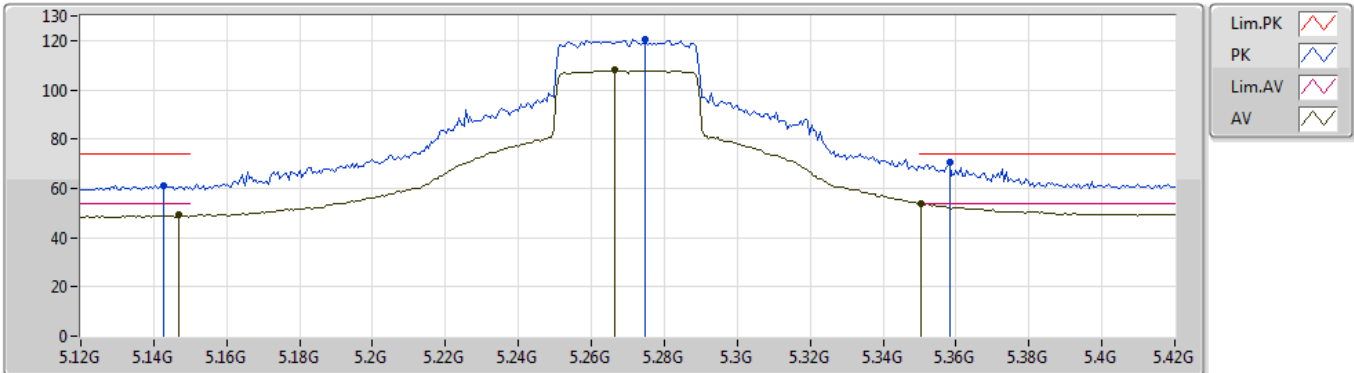
EUT_Z_2TX
Setting 92
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.63612G	59.35	74.00	-14.65	16.49	3	Horizontal	108	1.44	-				
AV	10.63732G	45.73	54.00	-8.27	16.50	3	Horizontal	108	1.44	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

31/07/2019

5270MHz_TX



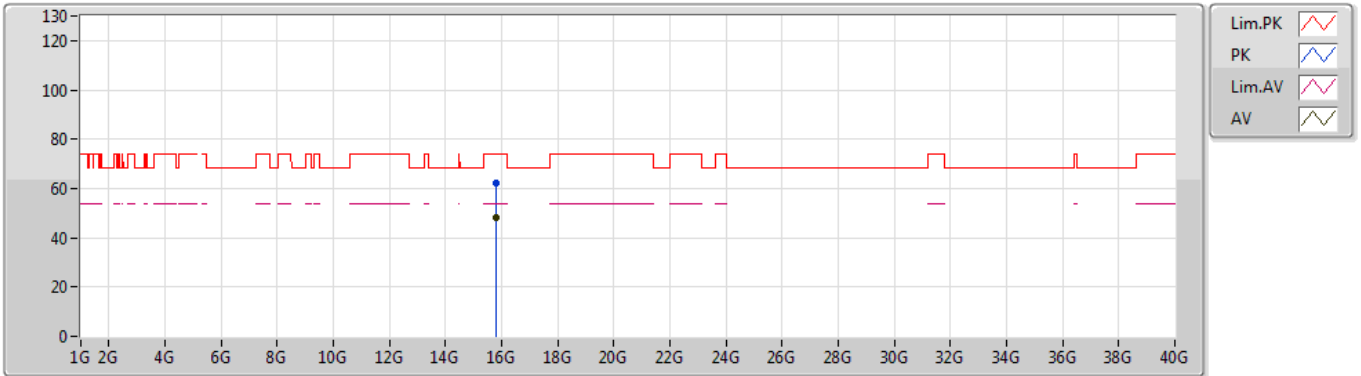
EUT_Z_2TX
Setting 95
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1428G	61.00	74.00	-13.00	7.34	3	Vertical	340	1.32	-				
AV	5.147G	49.04	54.00	-4.96	7.34	3	Vertical	340	1.32	-				
PK	5.2748G	120.61	Inf	-Inf	7.10	3	Vertical	340	1.32	-				
AV	5.2664G	107.90	Inf	-Inf	7.13	3	Vertical	340	1.32	-				
PK	5.3582G	70.62	74.00	-3.38	7.23	3	Vertical	340	1.32	-				
AV	5.3504G	53.96	54.00	-0.04	7.21	3	Vertical	340	1.32	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

31/07/2019

5270MHz_TX



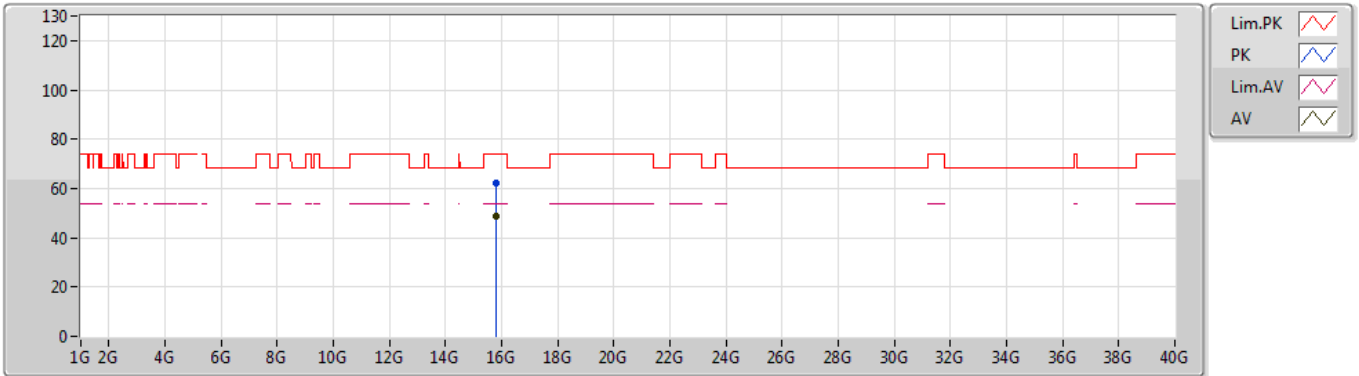
EUT_Z_2TX
Setting 95
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.80768G	62.35	74.00	-11.65	17.07	3	Vertical	47	1.71	-				
AV	15.813G	48.44	54.00	-5.56	17.05	3	Vertical	47	1.71	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

31/07/2019

5270MHz_TX



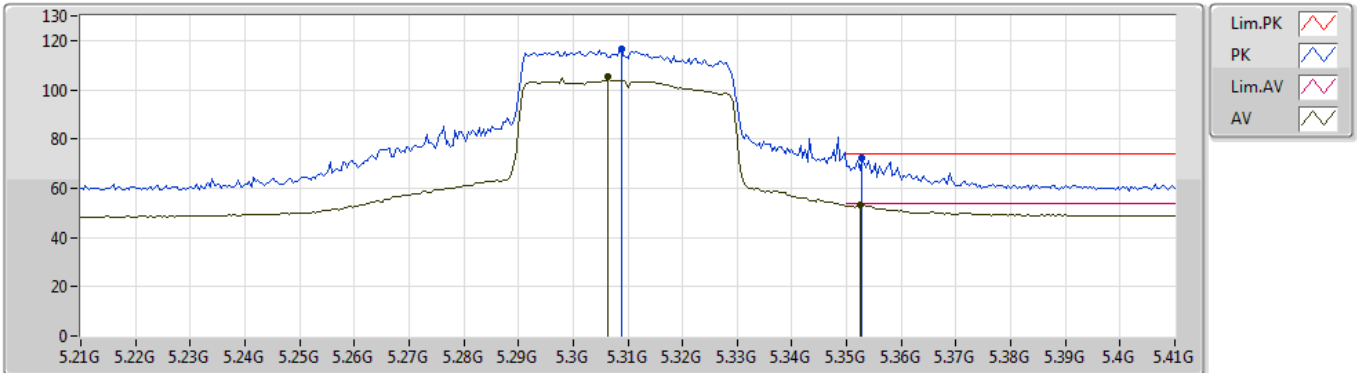
EUT_Z_2TX
Setting 95
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.80472G	62.46	74.00	-11.54	17.08	3	Horizontal	191	1.14	-				
AV	15.81068G	48.51	54.00	-5.49	17.06	3	Horizontal	191	1.14	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

31/07/2019

5310MHz_TX



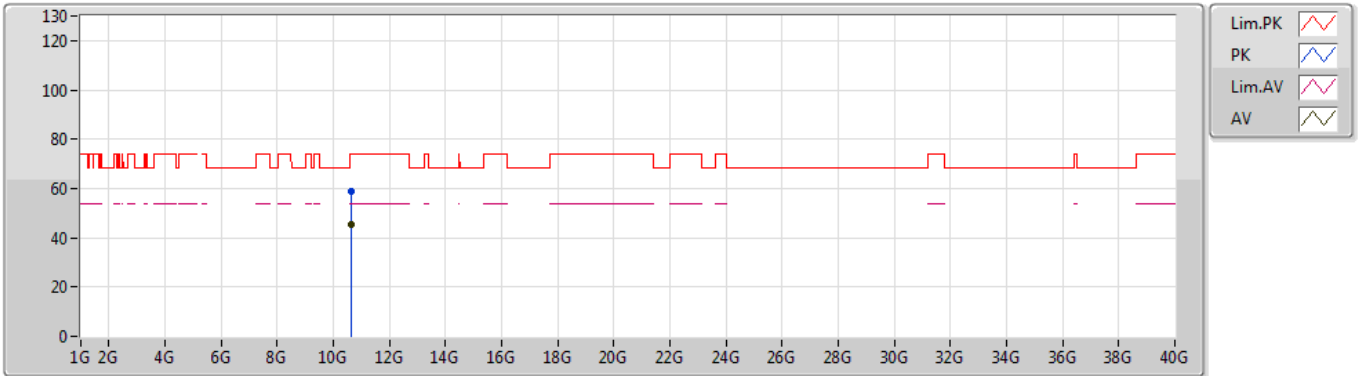
EUT_Z_2TX
Setting 82
06-C-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.3088G	116.59	Inf	-Inf	7.10	3	Vertical	337	1.08	-				
AV	5.3064G	105.11	Inf	-Inf	7.08	3	Vertical	337	1.08	-				
PK	5.3528G	72.42	74.00	-1.58	7.22	3	Vertical	337	1.08	-				
AV	5.3524G	53.31	54.00	-0.69	7.22	3	Vertical	337	1.08	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

31/07/2019

5310MHz_TX



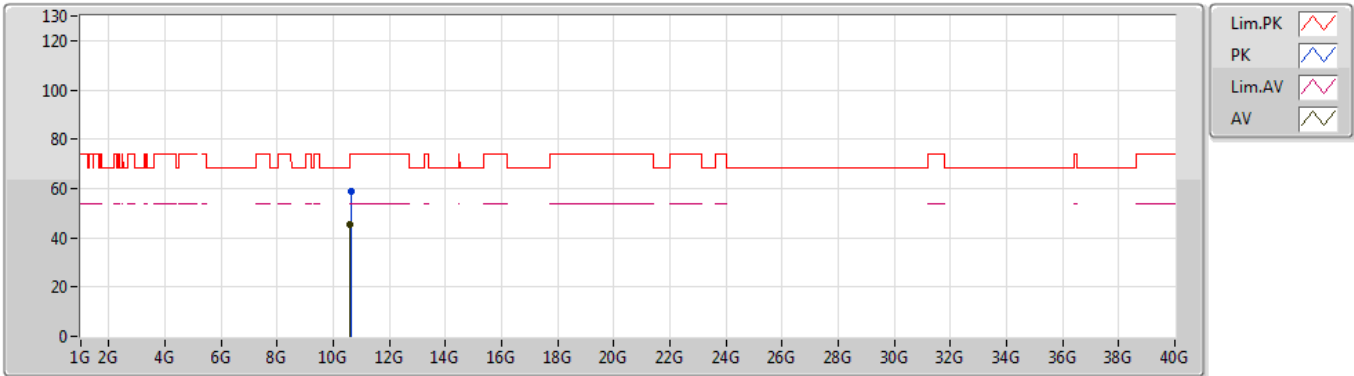
EUT_Z_2TX
Setting 82
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.61692G	58.84	74.00	-15.16	16.46	3	Vertical	46	1.48	-				
AV	10.62656G	45.29	54.00	-8.71	16.48	3	Vertical	46	1.48	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

31/07/2019

5310MHz_TX



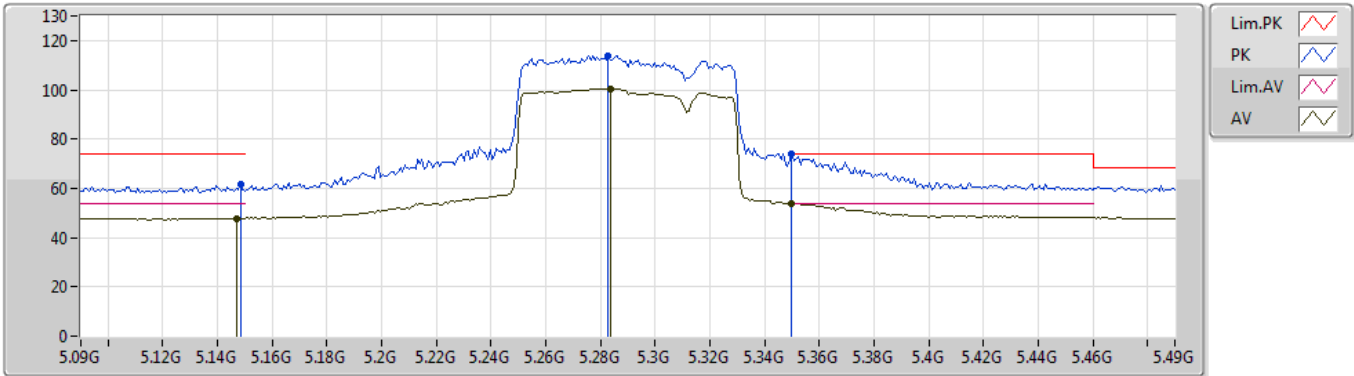
EUT_Z_2TX
Setting 82
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.6186G	59.01	74.00	-14.99	16.47	3	Horizontal	13	1.88	-				
AV	10.61G	45.46	54.00	-8.54	16.45	3	Horizontal	13	1.88	-				

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

31/07/2019

5290MHz_TX



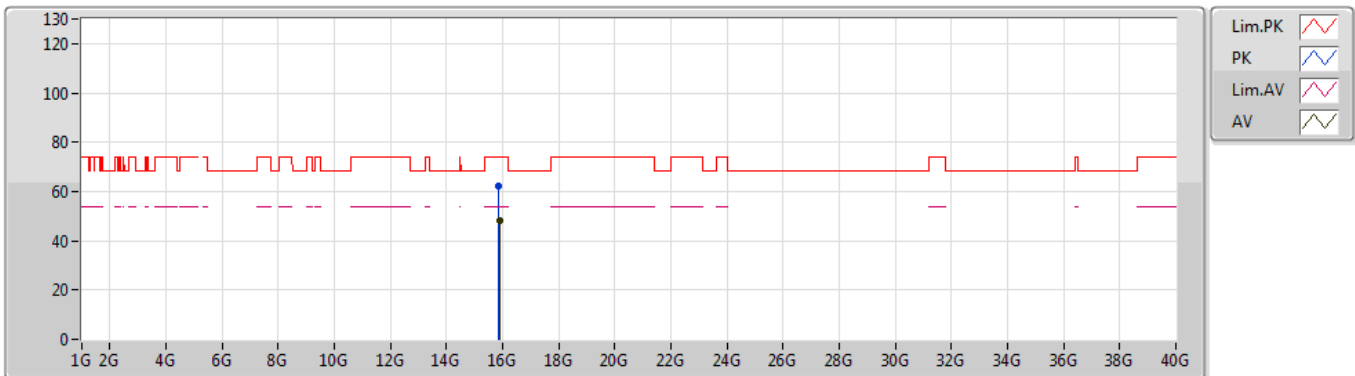
EUT_Z_2TX
Setting 79
06-C-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1484G	61.73	74.00	-12.27	7.33	3	Vertical	344	2.07	-				
AV	5.1468G	47.90	54.00	-6.10	7.34	3	Vertical	344	2.07	-				
PK	5.2828G	113.84	Inf	-Inf	7.09	3	Vertical	344	2.07	-				
AV	5.2836G	100.57	Inf	-Inf	7.09	3	Vertical	344	2.07	-				
PK	5.35G	73.76	74.00	-0.24	7.21	3	Vertical	344	2.07	-				
AV	5.35G	53.92	54.00	-0.08	7.21	3	Vertical	344	2.07	-				

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

31/07/2019

5290MHz_TX



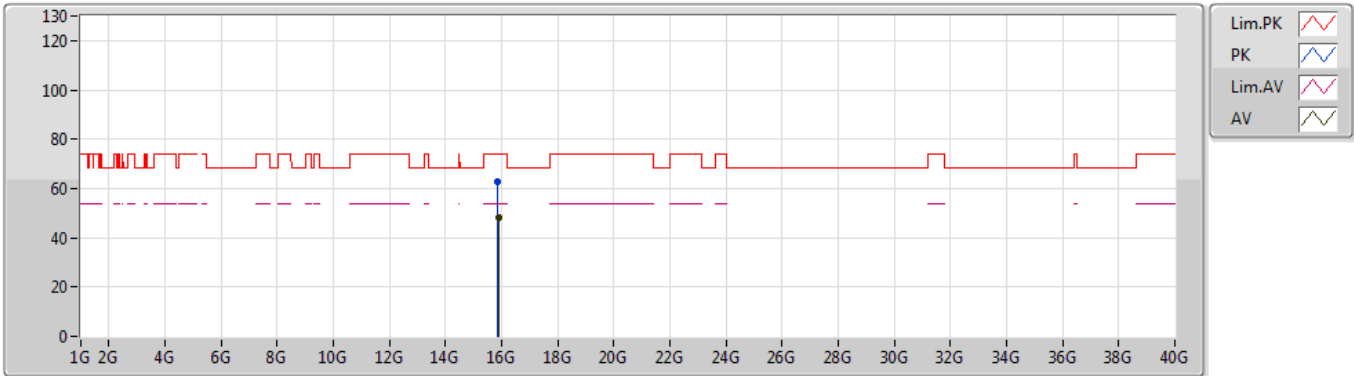
EUT_Z_2TX
Setting 79
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.87552G	62.37	74.00	-11.63	16.82	3	Vertical	325	2.24	-				
AV	15.87992G	48.34	54.00	-5.66	16.80	3	Vertical	325	2.24	-				

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

31/07/2019

5290MHz_TX



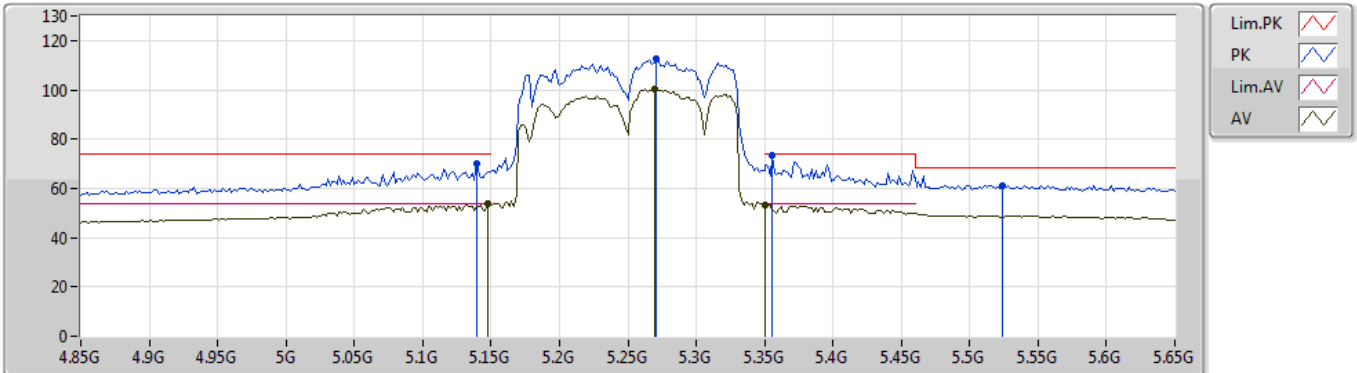
EUT_Z_2TX
Setting 79
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.86048G	62.50	74.00	-11.50	16.88	3	Horizontal	350	2.10	-				
AV	15.8788G	48.32	54.00	-5.68	16.80	3	Horizontal	350	2.10	-				

802.11ax HEW160-BF_Nss1,(MCS0)_2TX

31/07/2019

5250MHz_TX



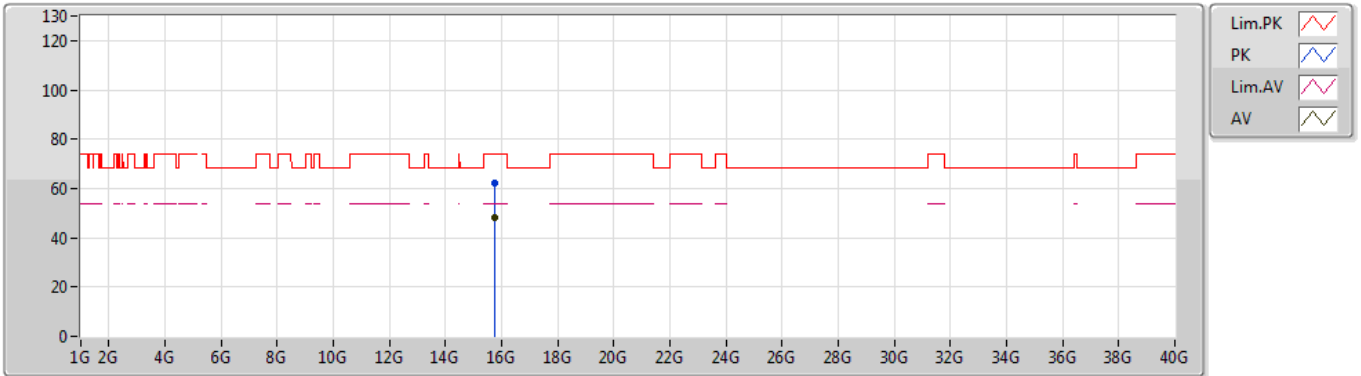
EUT Z_2TX
Setting 73
06-C-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1396G	70.13	74.00	-3.87	7.35	3	Vertical	56	1.90	-				
AV	5.1476G	53.55	54.00	-0.45	7.33	3	Vertical	56	1.90	-				
PK	5.2708G	112.64	Inf	-Inf	7.11	3	Vertical	56	1.90	-				
AV	5.2692G	100.32	Inf	-Inf	7.12	3	Vertical	56	1.90	-				
PK	5.3556G	73.47	74.00	-0.53	7.23	3	Vertical	56	1.90	-				
AV	5.3508G	53.51	54.00	-0.49	7.21	3	Vertical	56	1.90	-				
PK	5.5236G	61.20	68.20	-7.00	7.59	3	Vertical	56	1.90	-				

802.11ax HEW160-BF_Nss1,(MCS0)_2TX

31/07/2019

5250MHz_TX



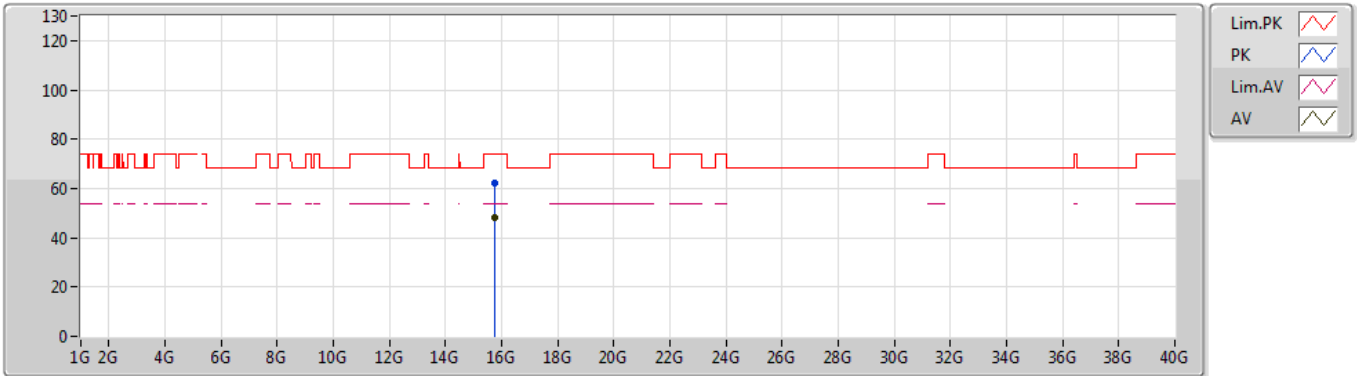
EUT_Z_2TX
Setting 73
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.75188G	62.19	74.00	-11.81	17.27	3	Vertical	86	1.34	-				
AV	15.75996G	48.13	54.00	-5.87	17.24	3	Vertical	86	1.34	-				

802.11ax HEW160-BF_Nss1,(MCS0)_2TX

31/07/2019

5250MHz_TX



EUT_Z_2TX
Setting 73
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.75608G	62.28	74.00	-11.72	17.26	3	Horizontal	237	1.99	-				
AV	15.75476G	48.00	54.00	-6.00	17.26	3	Horizontal	237	1.99	-				



2T2S / For non-beamforming mode

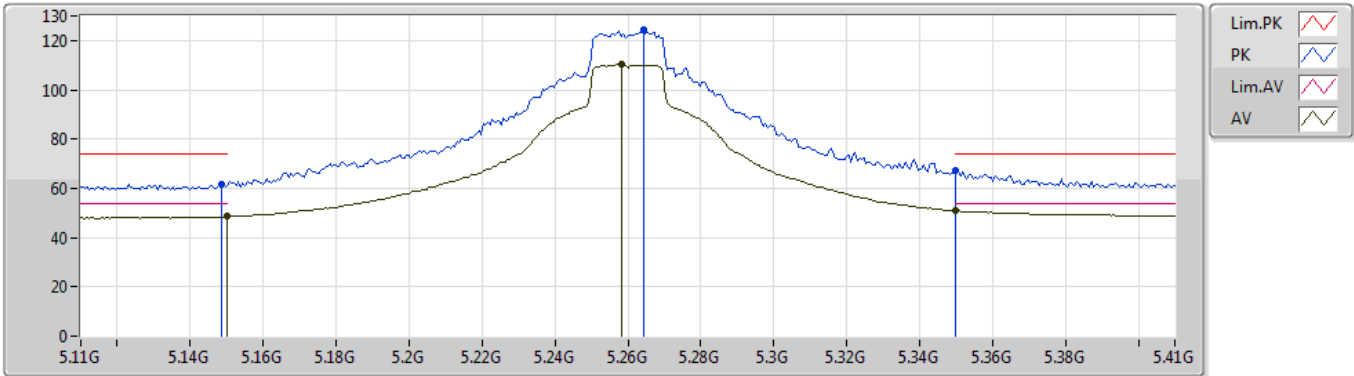
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80_Nss2,(MCS0)_2TX	Pass	AV	5.351G	53.96	54.00	-0.04	7.21	3	Vertical	347	2.03	-

802.11ax HEW20_Nss2,(MCS0)_2TX

23/07/2019

5260MHz_TX



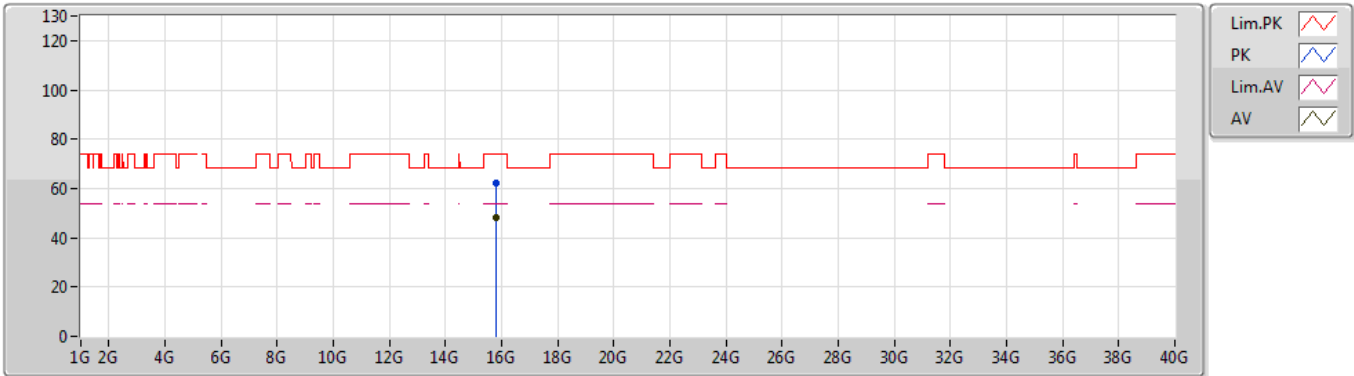
EUT Z_2TX
Setting 116
06-C-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1484G	61.76	74.00	-12.24	7.33	3	Vertical	343	1.09	-
AV	5.15G	48.50	54.00	-5.50	7.33	3	Vertical	343	1.09	-
PK	5.2642G	124.13	Inf	-Inf	7.13	3	Vertical	343	1.09	-
AV	5.2582G	110.20	Inf	-Inf	7.13	3	Vertical	343	1.09	-
PK	5.35G	67.40	74.00	-6.60	7.21	3	Vertical	343	1.09	-
AV	5.35G	50.87	54.00	-3.13	7.21	3	Vertical	343	1.09	-

802.11ax HEW20_Nss2,(MCS0)_2TX

23/07/2019

5260MHz_TX



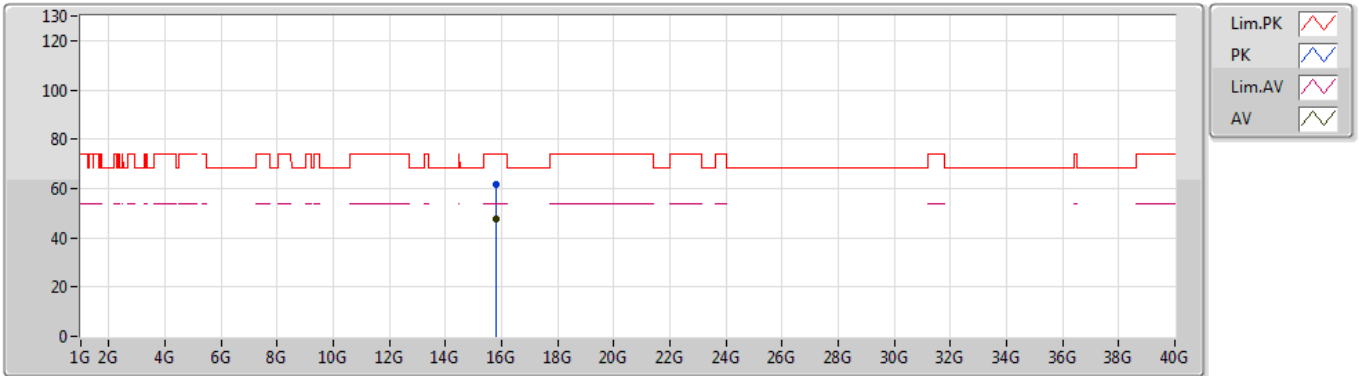
EUT Z_2TX
Setting 116
06-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.7904G	62.15	74.00	-11.85	17.14	3	Vertical	304	2.65	-				
AV	15.78224G	48.07	54.00	-5.93	17.16	3	Vertical	304	2.65	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

23/07/2019

5260MHz_TX



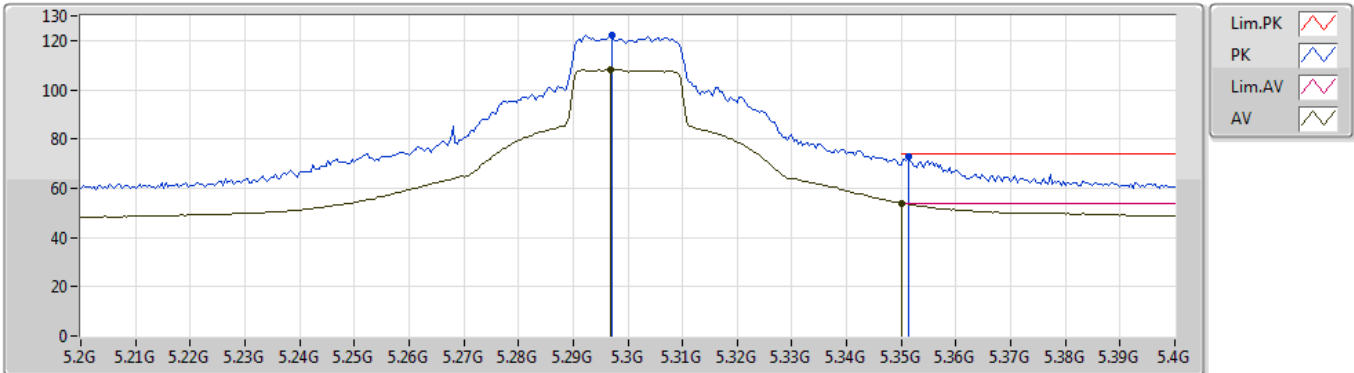
EUT_Z_2TX
Setting 116
06-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.78408G	61.73	74.00	-12.27	17.15	3	Horizontal	15	1.50	-				
AV	15.78952G	47.80	54.00	-6.20	17.14	3	Horizontal	15	1.50	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

23/07/2019

5300MHz_TX



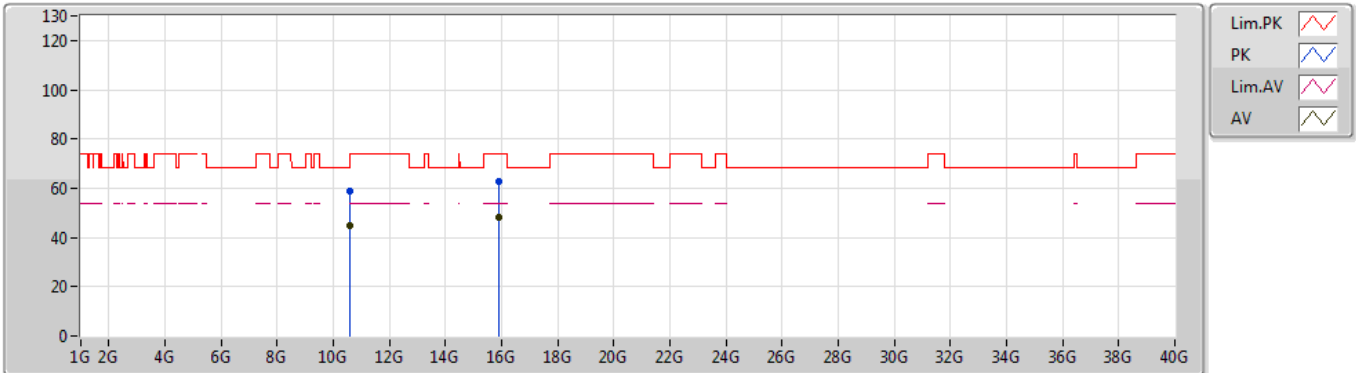
EUT_Z_2TX
Setting 106
06-C-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	5.2972G	122.06	Inf	-Inf	7.07	3	Vertical	343	1.27	-			
AV	5.2968G	108.39	Inf	-Inf	7.07	3	Vertical	343	1.27	-			
PK	5.3512G	72.77	74.00	-1.23	7.21	3	Vertical	343	1.27	-			
AV	5.35G	53.91	54.00	-0.09	7.21	3	Vertical	343	1.27	-			

802.11ax HEW20_Nss2,(MCS0)_2TX

23/07/2019

5300MHz_TX



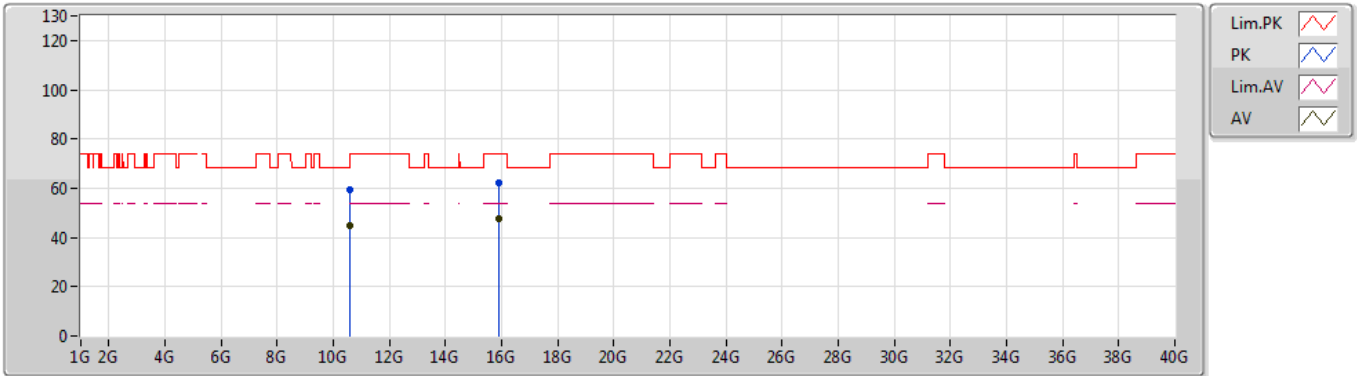
EUT_Z_2TX
Setting 106
06-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.602G	58.95	74.00	-15.05	16.44	3	Vertical	334	1.50	-				
AV	10.60048G	44.79	54.00	-9.21	16.44	3	Vertical	334	1.50	-				
PK	15.89752G	62.55	74.00	-11.45	16.74	3	Vertical	97	1.05	-				
AV	15.89416G	47.93	54.00	-6.07	16.75	3	Vertical	97	1.05	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

23/07/2019

5300MHz_TX



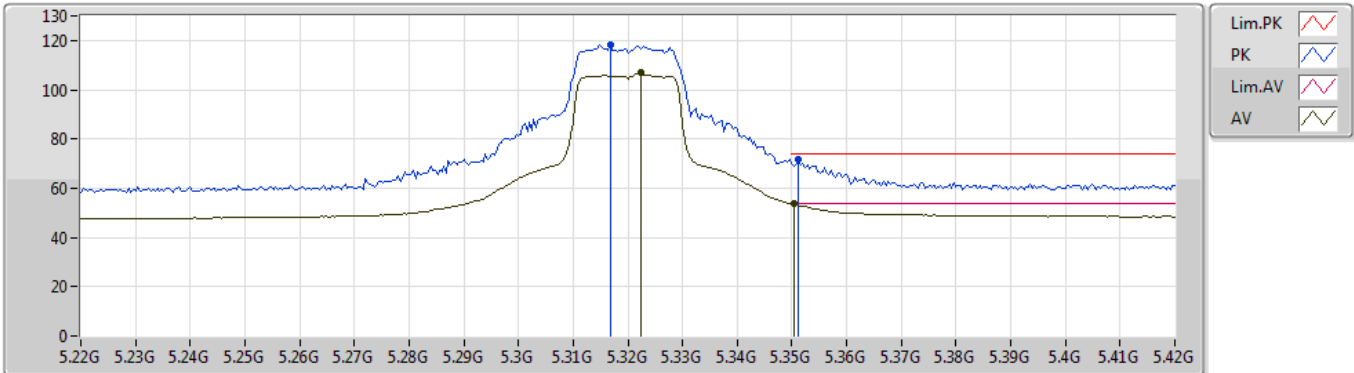
EUT_Z_2TX
Setting 106
06-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	10.61424G	59.28	74.00	-14.72	16.46	3	Horizontal	196	2.44	-			
AV	10.60984G	44.88	54.00	-9.12	16.45	3	Horizontal	196	2.44	-			
PK	15.88664G	62.37	74.00	-11.63	16.77	3	Horizontal	185	1.50	-			
AV	15.89008G	47.89	54.00	-6.11	16.77	3	Horizontal	185	1.50	-			

802.11ax HEW20_Nss2,(MCS0)_2TX

23/07/2019

5320MHz_TX



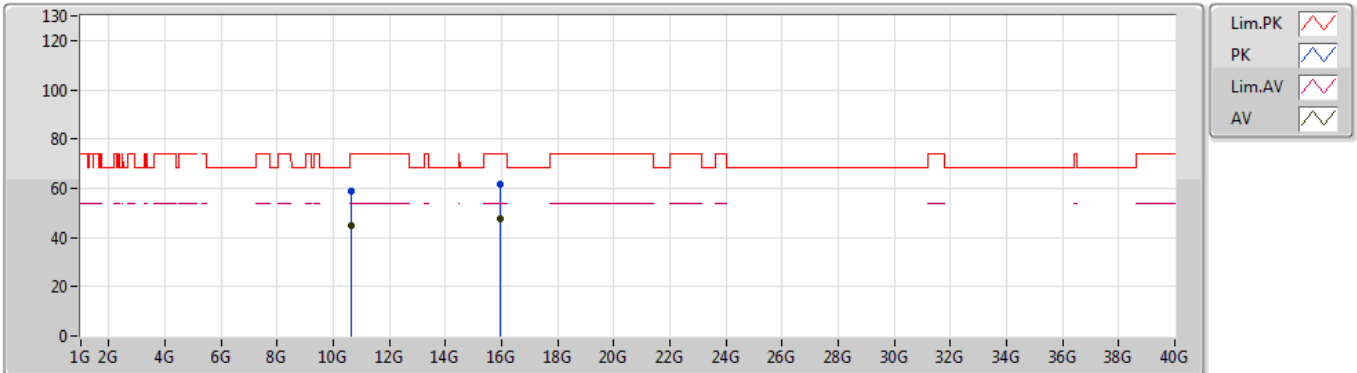
EUT_Z_2TX
Setting 93
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.3168G	118.32	Inf	-Inf	7.11	3	Vertical	340	1.05	-				
AV	5.3224G	106.88	Inf	-Inf	7.13	3	Vertical	340	1.05	-				
PK	5.3512G	71.71	74.00	-2.29	7.21	3	Vertical	340	1.05	-				
AV	5.3504G	53.56	54.00	-0.44	7.21	3	Vertical	340	1.05	-				

802.11ax HEW20_Nss2,(MCS0)_2TX

23/07/2019

5320MHz_TX



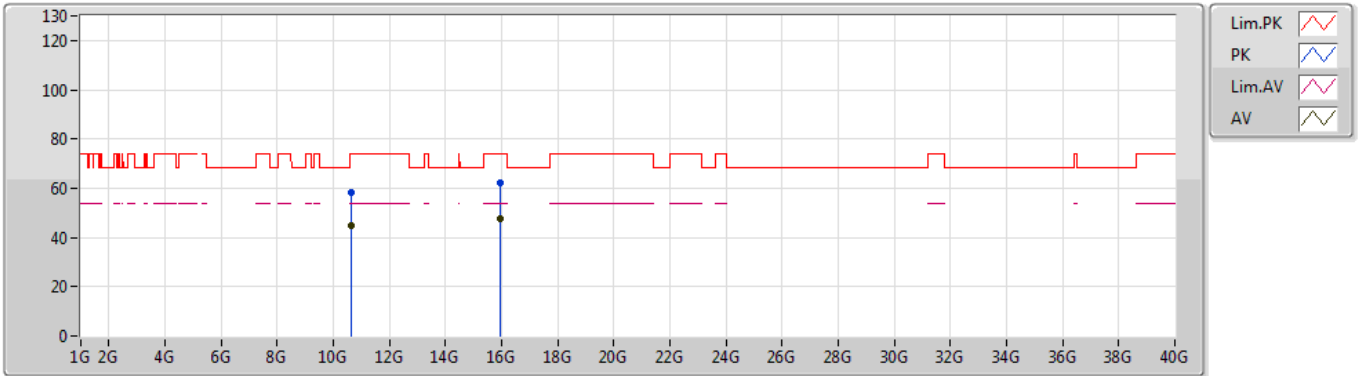
EUT_Z_2TX
Setting 93
06-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	10.646G	58.56	74.00	-15.44	16.50	3	Vertical	254	1.63	-			
AV	10.64168G	44.74	54.00	-9.26	16.51	3	Vertical	254	1.63	-			
PK	15.96816G	61.72	74.00	-12.28	16.48	3	Vertical	272	1.46	-			
AV	15.96392G	47.42	54.00	-6.58	16.49	3	Vertical	272	1.46	-			

802.11ax HEW20_Nss2,(MCS0)_2TX

23/07/2019

5320MHz_TX



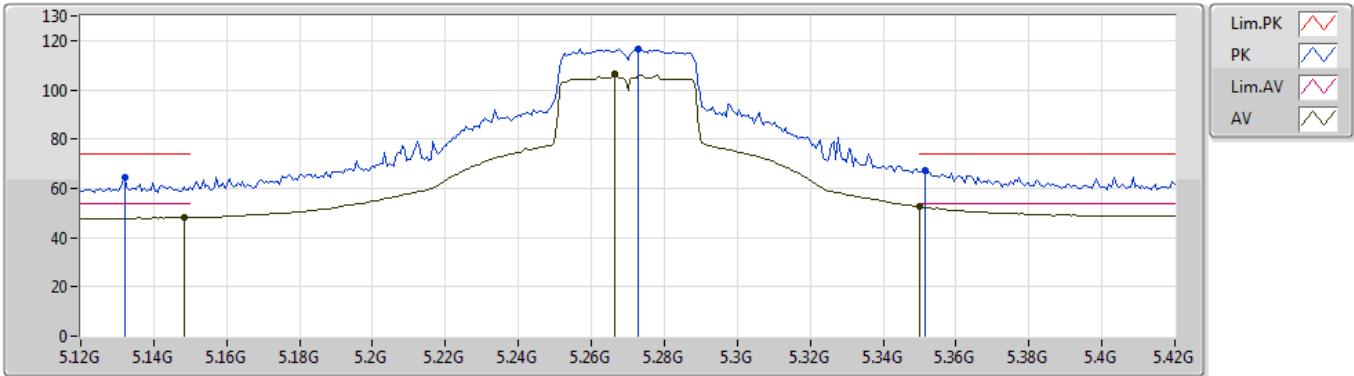
EUT_Z_2TX
Setting 93
06-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.64184G	58.51	74.00	-15.49	16.51	3	Horizontal	88	2.21	-				
AV	10.64168G	44.77	54.00	-9.23	16.51	3	Horizontal	88	2.21	-				
PK	15.95656G	62.35	74.00	-11.65	16.52	3	Horizontal	241	1.50	-				
AV	15.94328G	47.53	54.00	-6.47	16.57	3	Horizontal	241	1.50	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

23/07/2019

5270MHz_TX



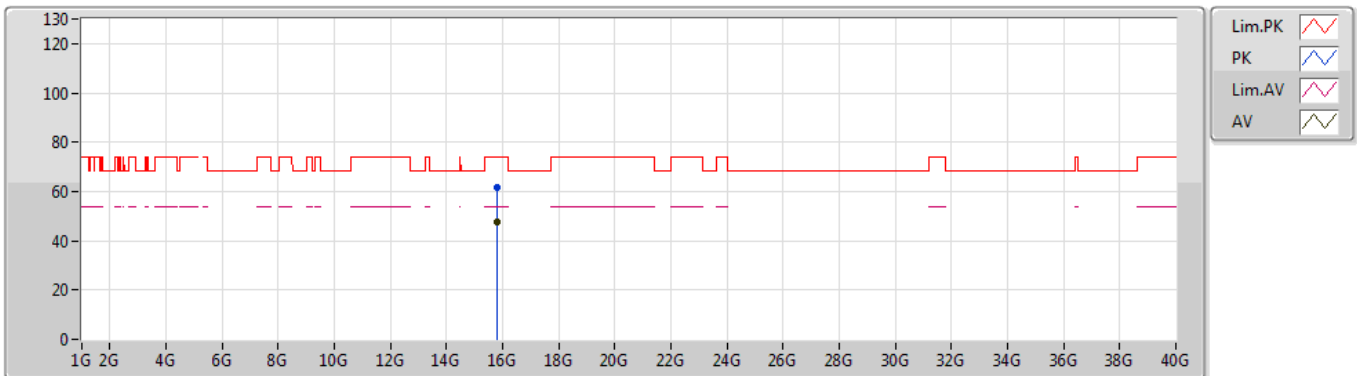
EUT Z_2TX
Setting 100
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.132G	64.31	74.00	-9.69	7.36	3	Vertical	341	1.38	-				
AV	5.1482G	48.16	54.00	-5.84	7.33	3	Vertical	341	1.38	-				
PK	5.273G	116.67	Inf	-Inf	7.10	3	Vertical	341	1.38	-				
AV	5.2664G	106.27	Inf	-Inf	7.13	3	Vertical	341	1.38	-				
PK	5.3516G	67.26	74.00	-6.74	7.21	3	Vertical	341	1.38	-				
AV	5.35G	52.48	54.00	-1.52	7.21	3	Vertical	341	1.38	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

23/07/2019

5270MHz_TX



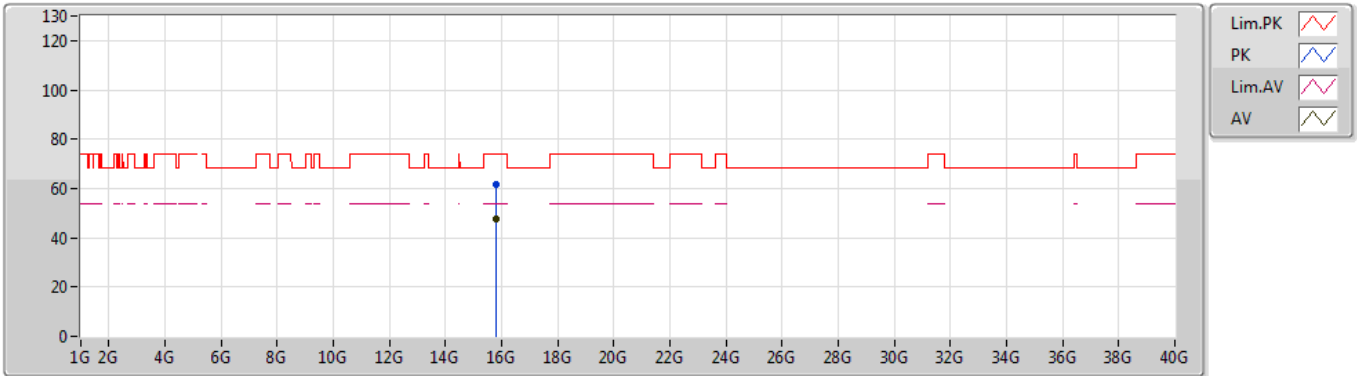
EUT Z_2TX
Setting 100
06-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.8228G	61.66	74.00	-12.34	17.01	3	Vertical	218	1.85	-				
AV	15.8172G	47.71	54.00	-6.29	17.03	3	Vertical	218	1.85	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

23/07/2019

5270MHz_TX



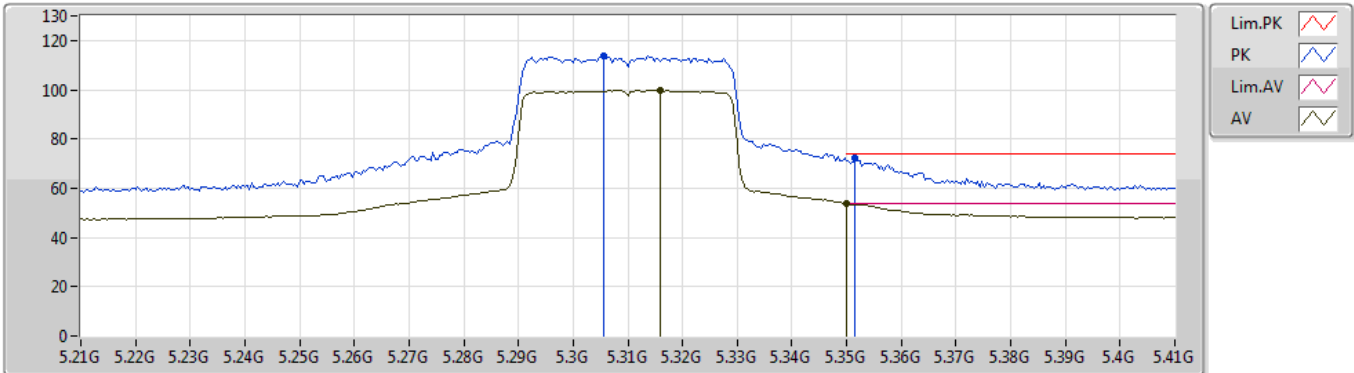
EUT_Z_2TX
Setting 100
06-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.80328G	61.60	74.00	-12.40	17.09	3	Horizontal	357	1.55	-				
AV	15.80576G	47.79	54.00	-6.21	17.07	3	Horizontal	357	1.55	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

23/07/2019

5310MHz_TX



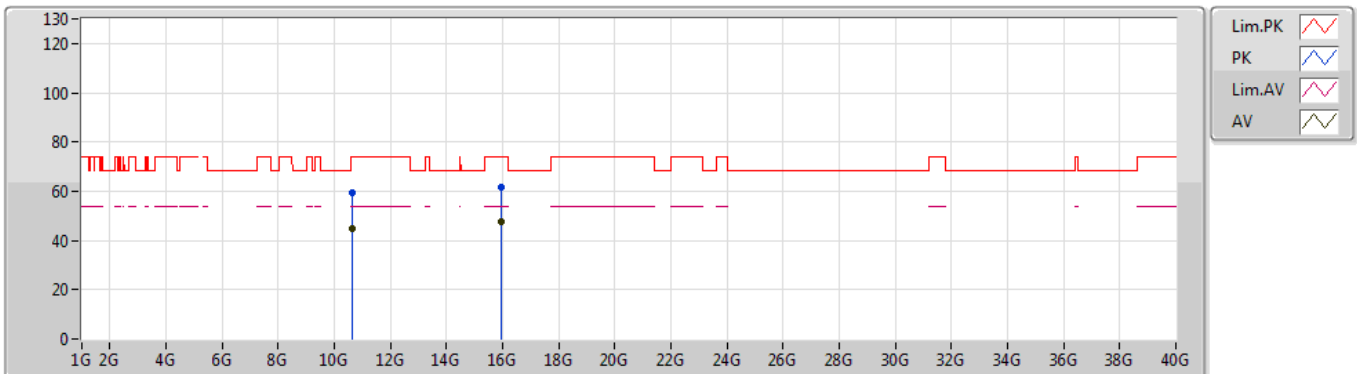
EUT_Z_2TX
Setting 83
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.3056G	113.53	Inf	-Inf	7.08	3	Vertical	340	1.06	-				
AV	5.316G	99.66	Inf	-Inf	7.11	3	Vertical	340	1.06	-				
PK	5.3516G	72.05	74.00	-1.95	7.21	3	Vertical	340	1.06	-				
AV	5.35G	53.79	54.00	-0.21	7.21	3	Vertical	340	1.06	-				

802.11ax HEW40_Nss2,(MCS0)_2TX

23/07/2019

5310MHz_TX



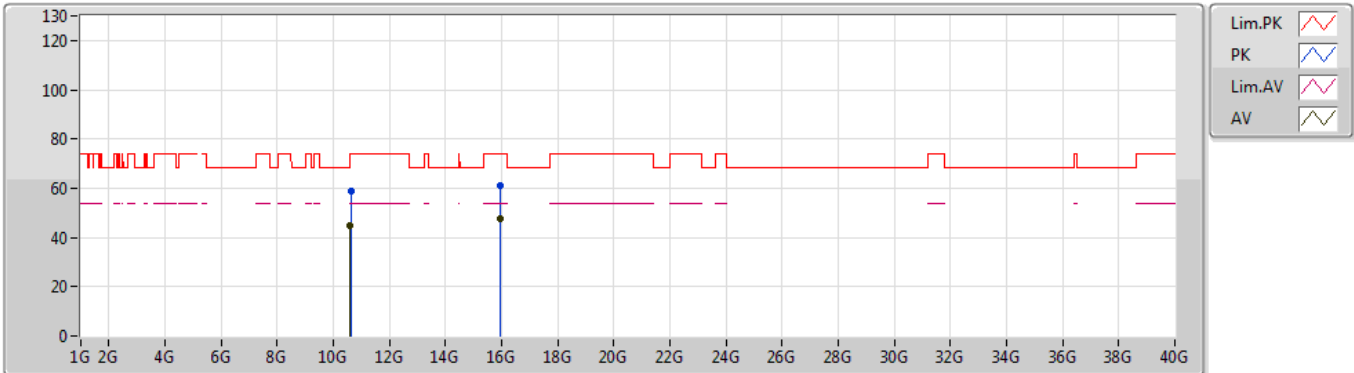
EUT_Z_2TX
Setting 83
06-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	10.62608G	59.35	74.00	-14.65	16.48	3	Vertical	64	2.35	-			
AV	10.62024G	44.80	54.00	-9.20	16.47	3	Vertical	64	2.35	-			
PK	15.92976G	61.80	74.00	-12.20	16.62	3	Vertical	348	1.50	-			
AV	15.92976G	47.58	54.00	-6.42	16.62	3	Vertical	348	1.50	-			

802.11ax HEW40_Nss2,(MCS0)_2TX

23/07/2019

5310MHz_TX



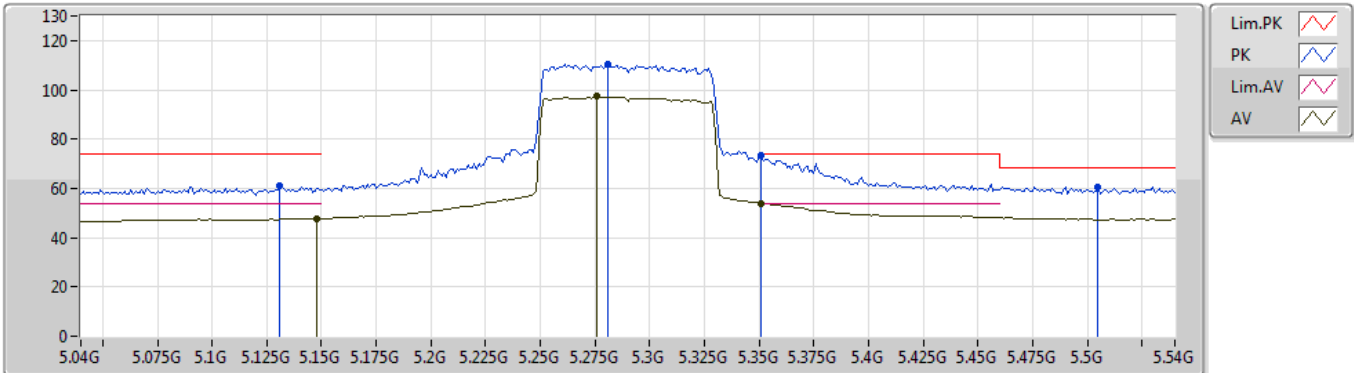
EUT_Z_2TX
Setting 83
06-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.61576G	58.86	74.00	-15.14	16.46	3	Horizontal	316	1.82	-				
AV	10.60264G	44.77	54.00	-9.23	16.44	3	Horizontal	316	1.82	-				
PK	15.93456G	61.21	74.00	-12.79	16.60	3	Horizontal	139	2.24	-				
AV	15.93344G	47.72	54.00	-6.28	16.61	3	Horizontal	139	2.24	-				

802.11ax HEW80_Nss2,(MCS0)_2TX

12/07/2019

5290MHz_TX



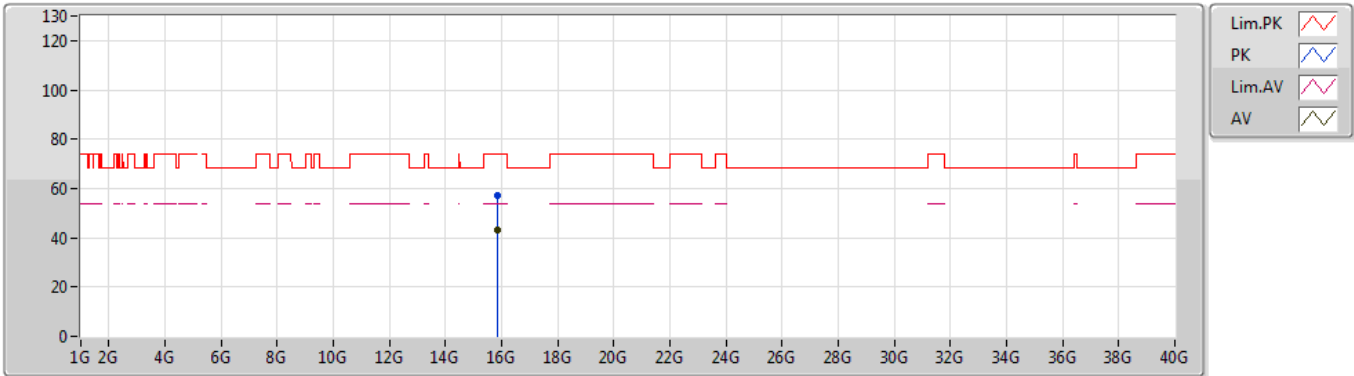
EUT_Z_2TX
Setting 83
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	5.131G	60.89	74.00	-13.11	7.36	3	Vertical	347	2.03	-			
AV	5.148G	47.70	54.00	-6.30	7.33	3	Vertical	347	2.03	-			
PK	5.281G	110.39	Inf	-Inf	7.10	3	Vertical	347	2.03	-			
AV	5.276G	97.27	Inf	-Inf	7.11	3	Vertical	347	2.03	-			
PK	5.351G	73.15	74.00	-0.85	7.21	3	Vertical	347	2.03	-			
AV	5.351G	53.96	54.00	-0.04	7.21	3	Vertical	347	2.03	-			
PK	5.505G	60.63	68.20	-7.57	7.60	3	Vertical	347	2.03	-			

802.11ax HEW80_Nss2,(MCS0)_2TX

24/07/2019

5290MHz_TX



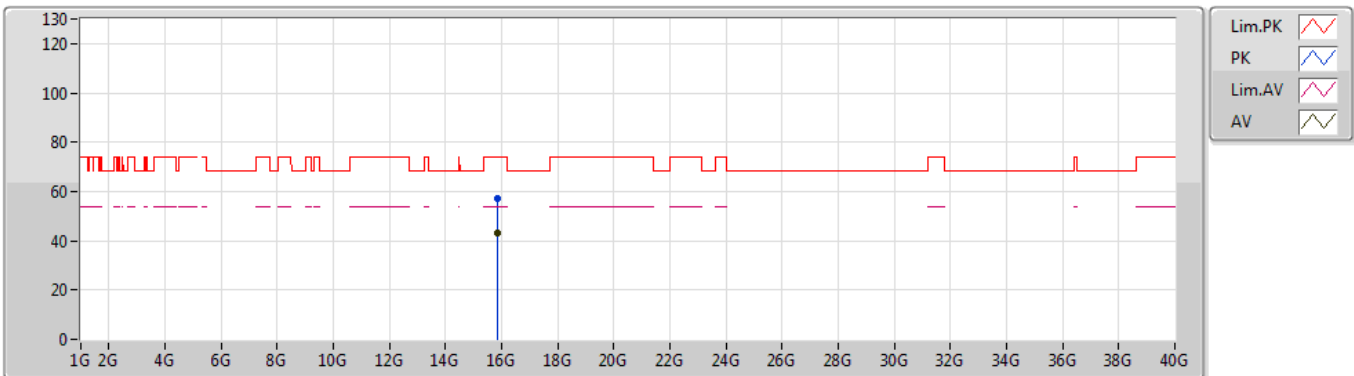
EUT Z_2TX
Setting 83
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.87692G	57.07	74.00	-16.93	13.18	3	Vertical	202	2.18	-				
AV	15.86456G	43.13	54.00	-10.87	13.24	3	Vertical	202	2.18	-				

802.11ax HEW80_Nss2,(MCS0)_2TX

24/07/2019

5290MHz_TX



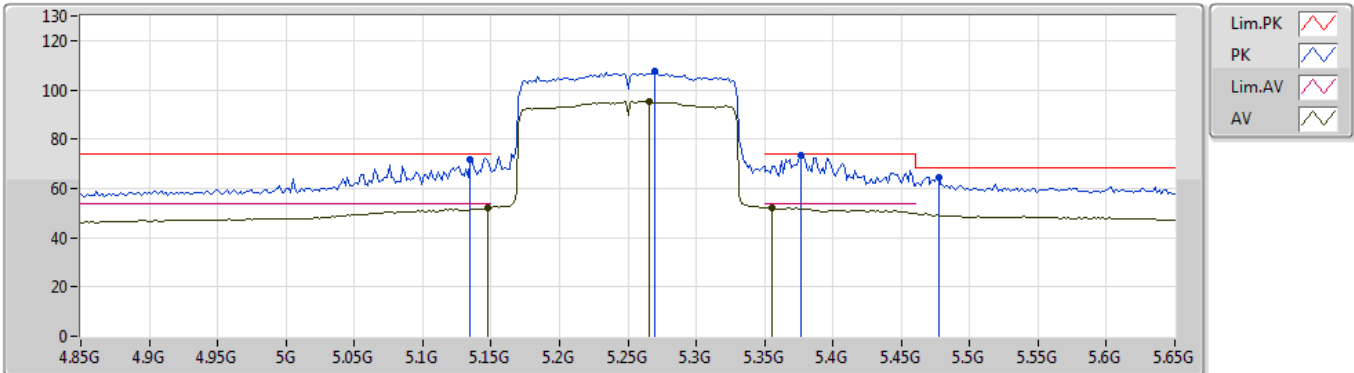
EUT Z_2TX
Setting 83
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.87452G	57.12	74.00	-16.88	13.20	3	Horizontal	187	2.15	-				
AV	15.86956G	43.11	54.00	-10.89	13.21	3	Horizontal	187	2.15	-				

802.11ax HEW160_Nss2,(MCS0)_2TX

12/07/2019

5250MHz_TX



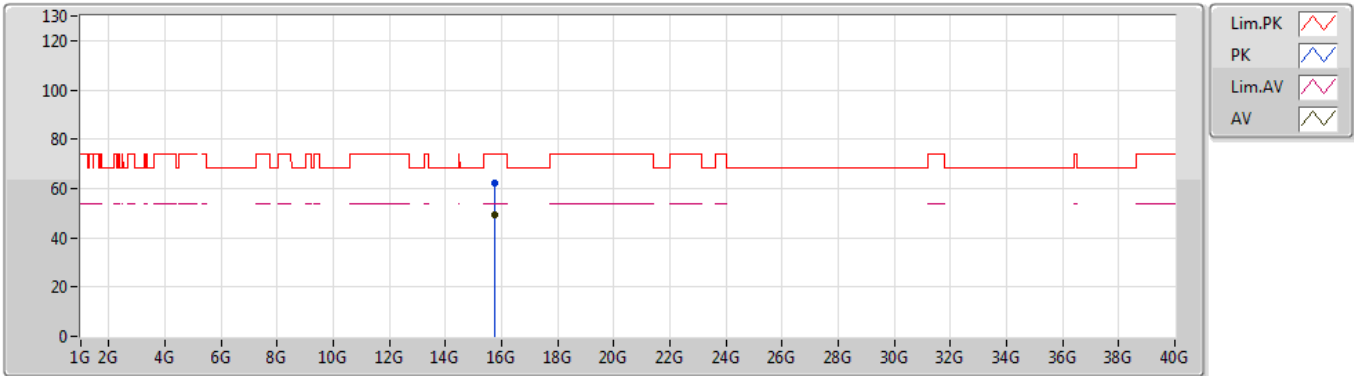
EUT Z_2TX
Setting 81
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1348G	71.88	74.00	-2.12	7.35	3	Vertical	342	1.30	-				
AV	5.1476G	52.04	54.00	-1.96	7.33	3	Vertical	342	1.30	-				
PK	5.2692G	107.74	Inf	-Inf	7.12	3	Vertical	342	1.30	-				
AV	5.266G	95.18	Inf	-Inf	7.13	3	Vertical	342	1.30	-				
PK	5.3764G	73.61	74.00	-0.39	7.30	3	Vertical	342	1.30	-				
AV	5.3556G	52.09	54.00	-1.91	7.23	3	Vertical	342	1.30	-				
PK	5.4772G	64.58	68.20	-3.62	7.54	3	Vertical	342	1.30	-				

802.11ax HEW160_Nss2,(MCS0)_2TX

24/07/2019

5250MHz_TX



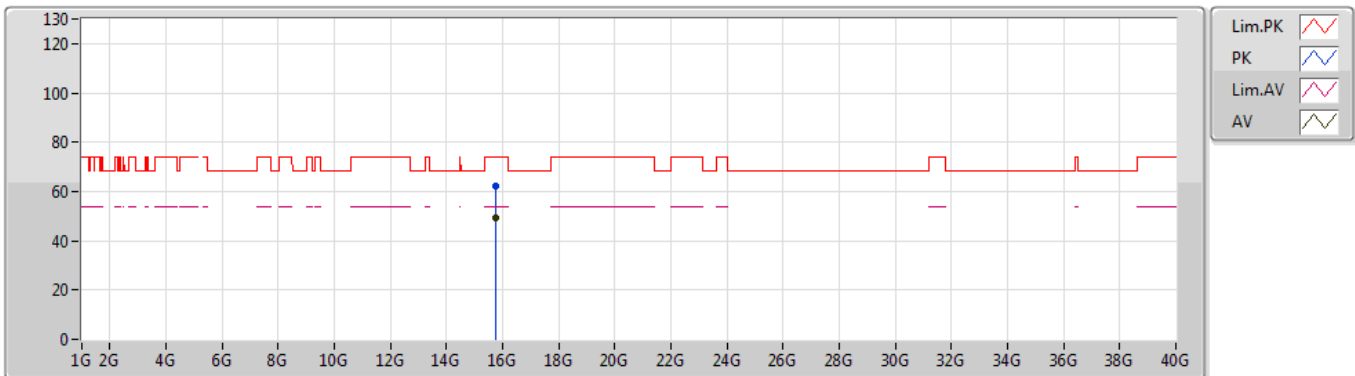
EUT_Z_2TX
Setting 81
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.75508G	61.94	74.00	-12.06	17.54	3	Vertical	49	1.07	-				
AV	15.75232G	49.59	54.00	-4.41	17.55	3	Vertical	49	1.07	-				

802.11ax HEW160_Nss2,(MCS0)_2TX

24/07/2019

5250MHz_TX



EUT_Z_2TX
Setting 81
06-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.751G	62.02	74.00	-11.98	17.55	3	Horizontal	188	1.02	-				
AV	15.74596G	49.53	54.00	-4.47	17.58	3	Horizontal	188	1.02	-				



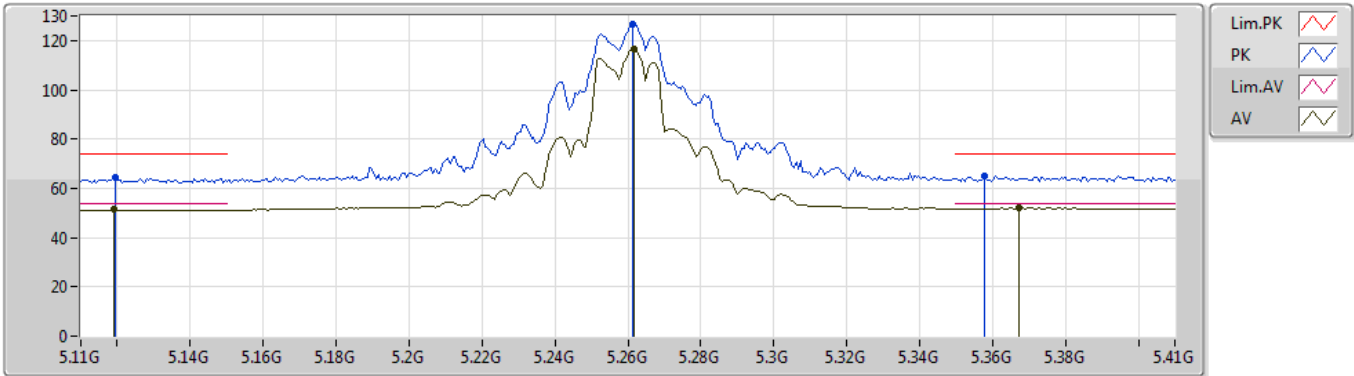
4T1S / For non-beamforming mode
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	AV	5.3516G	53.93	54.00	-0.07	7.21	3	Vertical	343	2.03	-

802.11a_Nss1,(6Mbps)_4TX

23/07/2019

5260MHz_TX



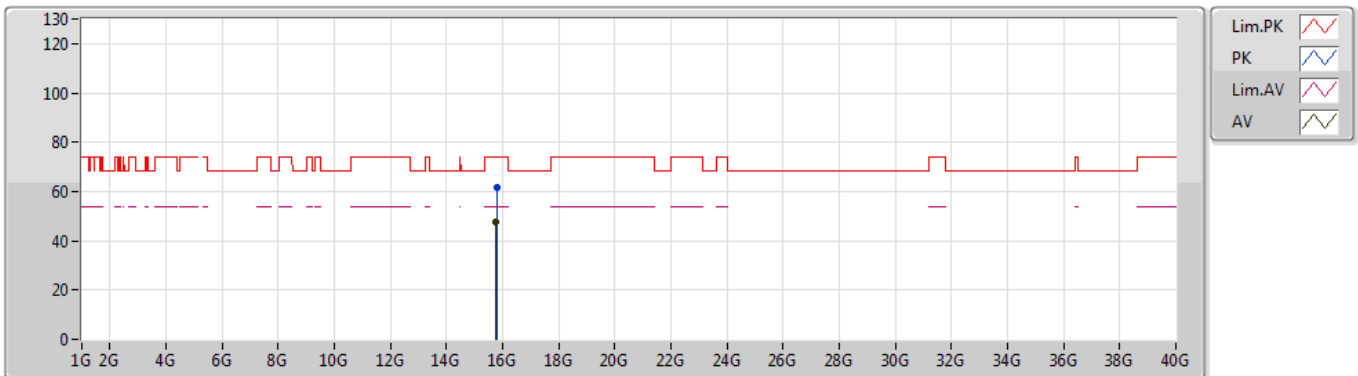
EUT Z_4TX
Setting 100
06-K-3-13
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1196G	64.55	74.00	-9.45	7.38	3	Vertical	342	2.04	-				
AV	5.119G	51.28	54.00	-2.72	7.38	3	Vertical	342	2.04	-				
PK	5.2612G	126.48	Inf	-Inf	7.14	3	Vertical	342	2.04	-				
AV	5.2618G	116.35	Inf	-Inf	7.14	3	Vertical	342	2.04	-				
PK	5.3578G	65.19	74.00	-8.81	7.23	3	Vertical	342	2.04	-				
AV	5.3674G	51.99	54.00	-2.01	7.27	3	Vertical	342	2.04	-				

802.11a_Nss1,(6Mbps)_4TX

23/07/2019

5260MHz_TX



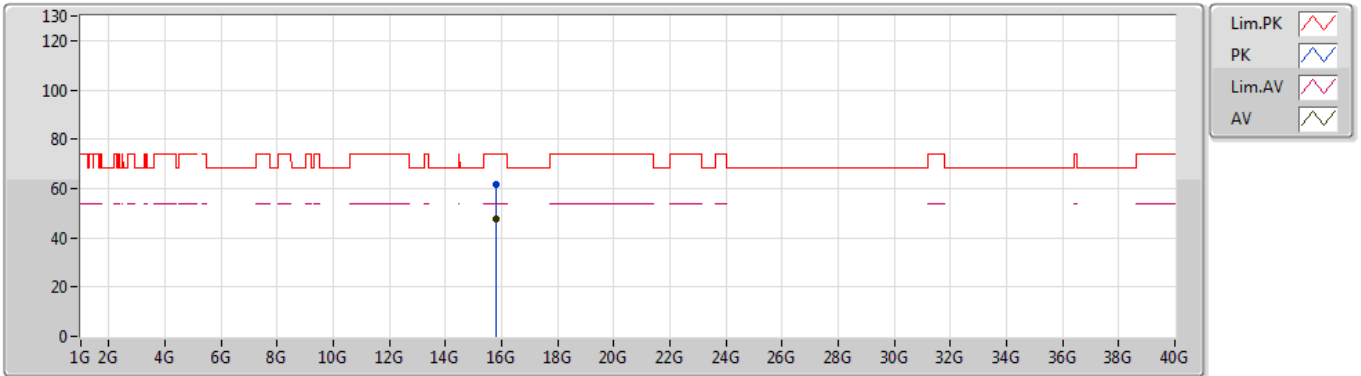
EUT_Z_4TX
Setting 100
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.7926G	61.80	74.00	-12.20	17.13	3	Vertical	113	2.08	-				
AV	15.77058G	47.88	54.00	-6.12	17.21	3	Vertical	113	2.08	-				

802.11a_Nss1,(6Mbps)_4TX

23/07/2019

5260MHz_TX



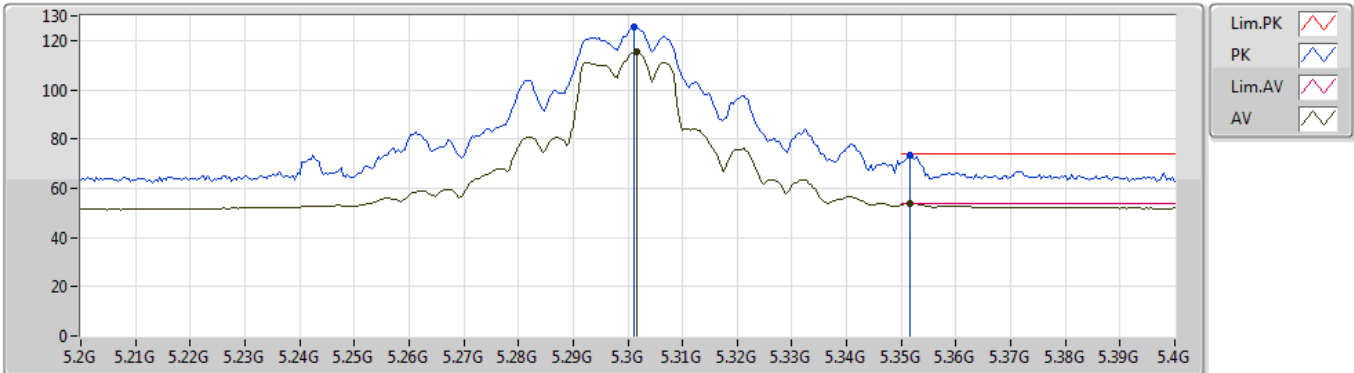
EUT_Z_4TX
Setting 100
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.7806G	61.78	74.00	-12.22	17.17	3	Horizontal	139	1.50	-				
AV	15.77934G	47.87	54.00	-6.13	17.17	3	Horizontal	139	1.50	-				

802.11a_Nss1,(6Mbps)_4TX

23/07/2019

5300MHz_TX



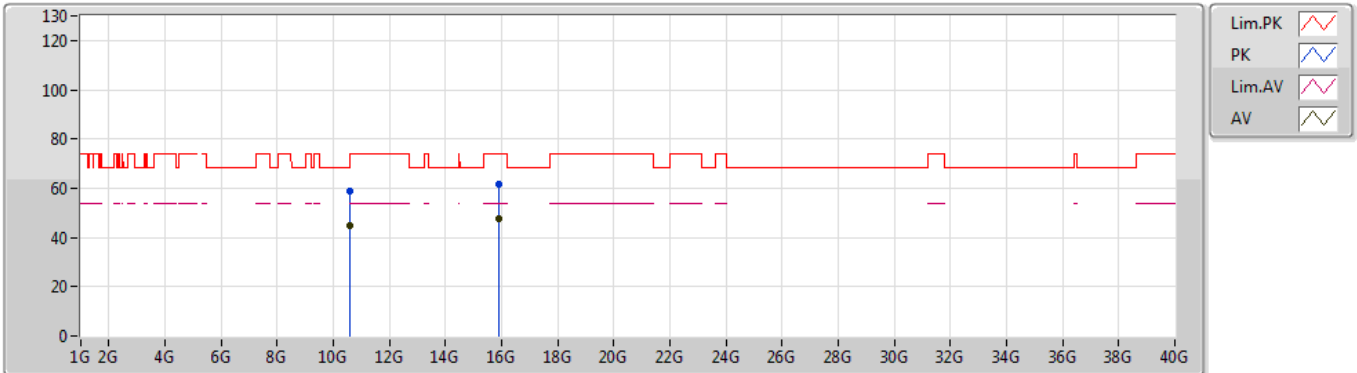
EUT_Z_4TX
Setting 100
06-K-3-13
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	5.3012G	125.70	Inf	-Inf	7.06	3	Vertical	343	2.03	-			
AV	5.3016G	115.26	Inf	-Inf	7.06	3	Vertical	343	2.03	-			
PK	5.3516G	73.21	74.00	-0.79	7.21	3	Vertical	343	2.03	-			
AV	5.3516G	53.93	54.00	-0.07	7.21	3	Vertical	343	2.03	-			

802.11a_Nss1,(6Mbps)_4TX

02/08/2019

5300MHz_TX



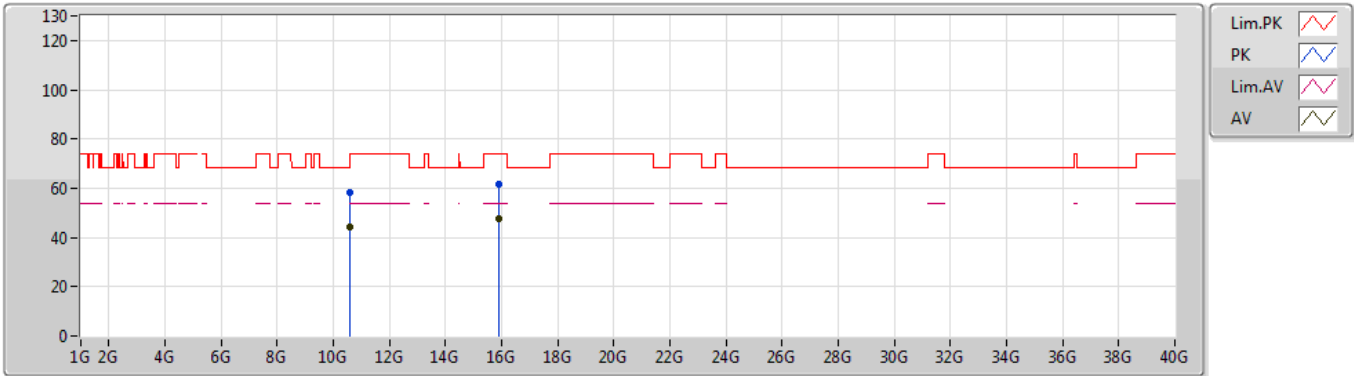
EUT_Z_4TX
Setting 100
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.6083G	58.63	74.00	-15.37	16.45	3	Vertical	204	1.79	-				
AV	10.6003G	44.94	54.00	-9.06	16.44	3	Vertical	204	1.79	-				
PK	15.8937G	61.91	74.00	-12.09	16.76	3	Vertical	120	1.50	-				
AV	15.9021G	47.77	54.00	-6.23	16.72	3	Vertical	120	1.50	-				

802.11a_Nss1,(6Mbps)_4TX

02/08/2019

5300MHz_TX



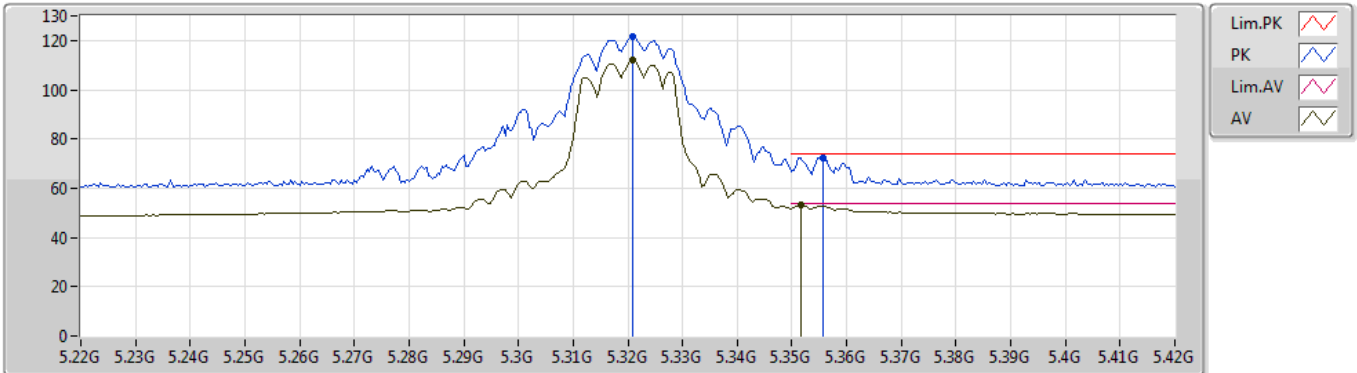
EUT_Z_4TX
Setting 100
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.6026G	58.17	74.00	-15.83	16.44	3	Horizontal	302	1.50	-				
AV	10.60246G	44.53	54.00	-9.47	16.44	3	Horizontal	302	1.50	-				
PK	15.89202G	61.37	74.00	-12.63	16.76	3	Horizontal	134	1.34	-				
AV	15.89706G	47.79	54.00	-6.21	16.74	3	Horizontal	134	1.34	-				

802.11a_Nss1,(6Mbps)_4TX

23/07/2019

5320MHz_TX



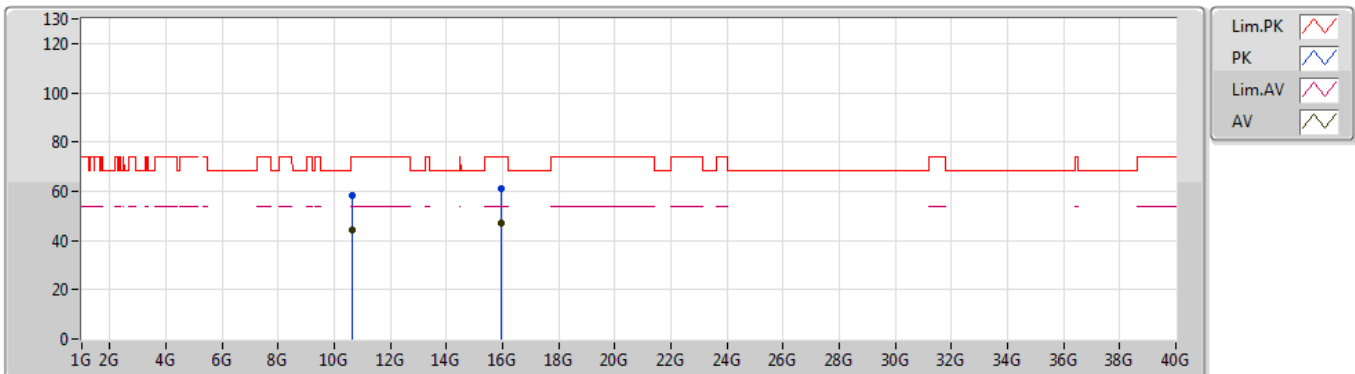
EUT_Z_4TX
Setting 88
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.3208G	121.76	Inf	-Inf	7.12	3	Vertical	343	2.02	-				
AV	5.3208G	112.05	Inf	-Inf	7.12	3	Vertical	343	2.02	-				
PK	5.3556G	72.31	74.00	-1.69	7.23	3	Vertical	343	2.02	-				
AV	5.3516G	53.04	54.00	-0.96	7.21	3	Vertical	343	2.02	-				

802.11a_Nss1,(6Mbps)_4TX

23/07/2019

5320MHz_TX



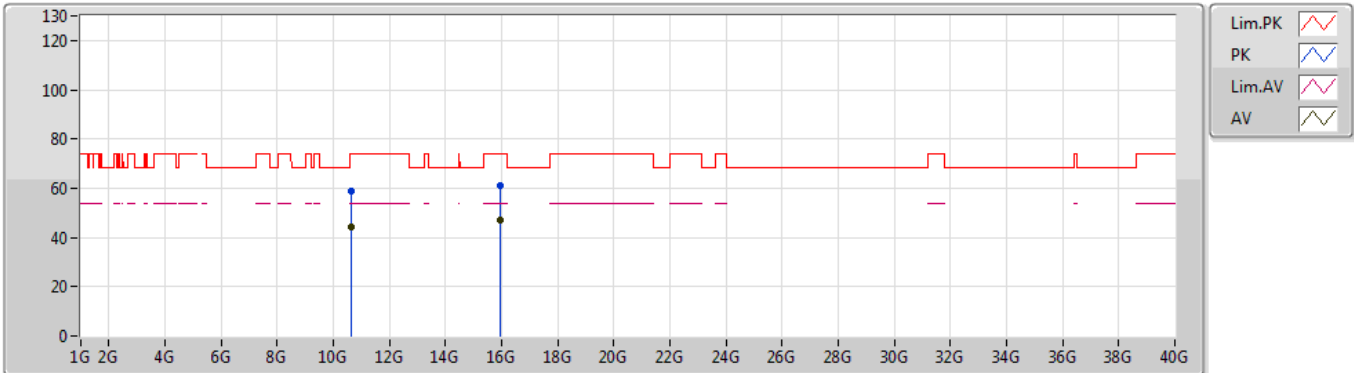
EUT_Z_4TX
Setting 88
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	10.65068G	58.08	74.00	-15.92	16.51	3	Vertical	35	2.82	-			
AV	10.6274G	44.53	54.00	-9.47	16.48	3	Vertical	35	2.82	-			
PK	15.96012G	61.22	74.00	-12.78	16.51	3	Vertical	229	1.53	-			
AV	15.9456G	47.30	54.00	-6.70	16.56	3	Vertical	229	1.53	-			

802.11a_Nss1,(6Mbps)_4TX

23/07/2019

5320MHz_TX



EUT_Z_4TX
Setting 88
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.63136G	59.06	74.00	-14.94	16.48	3	Horizontal	18	1.38	-				
AV	10.62776G	44.49	54.00	-9.51	16.48	3	Horizontal	18	1.38	-				
PK	15.9591G	61.08	74.00	-12.92	16.51	3	Horizontal	359	2.35	-				
AV	15.94776G	47.31	54.00	-6.69	16.55	3	Horizontal	359	2.35	-				



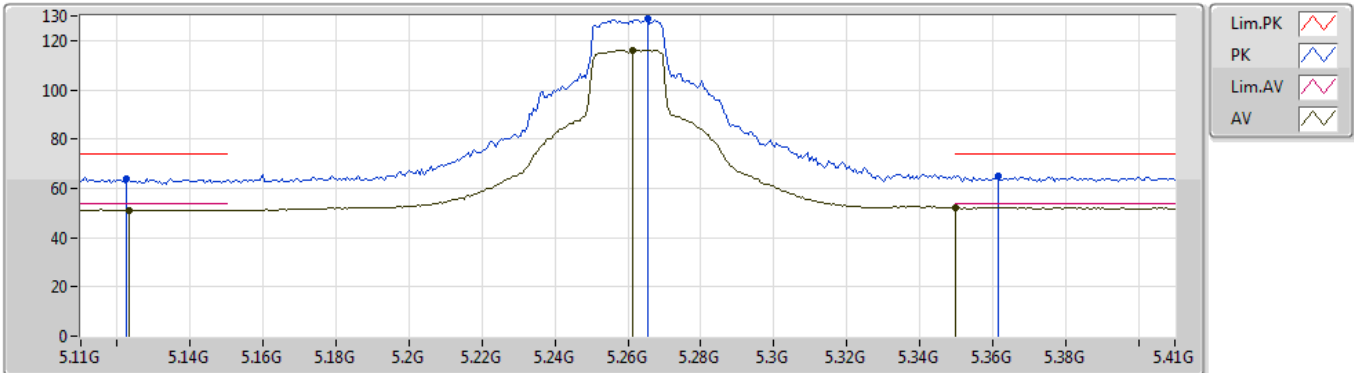
4T1S / For beamforming mode
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	Pass	AV	5.3508G	53.97	54.00	-0.03	7.21	3	Vertical	12	2.08	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

16/07/2019

5260MHz_TX



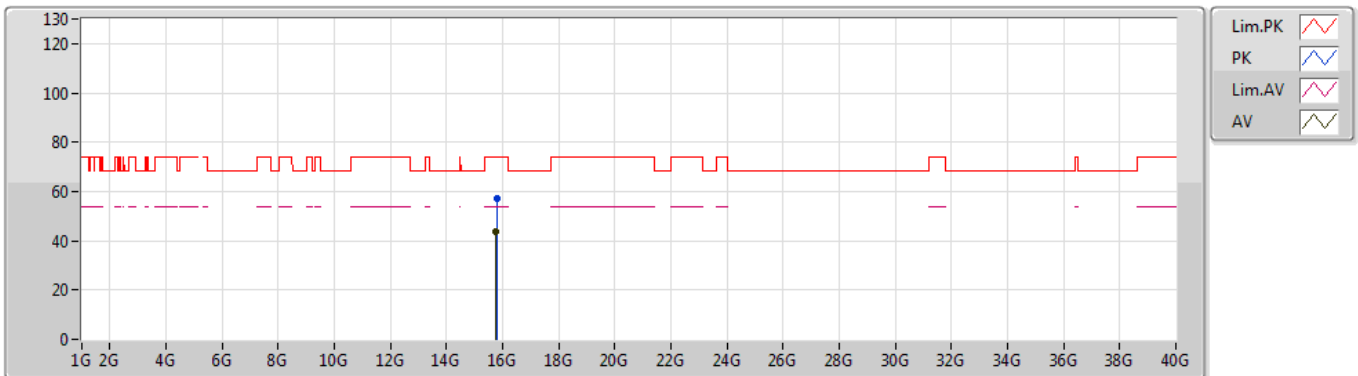
EUT_Z_4TX
Setting 100
06-K-3-13
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1226G	63.96	74.00	-10.04	7.37	3	Vertical	270	2.15	-
AV	5.1232G	51.26	54.00	-2.74	7.37	3	Vertical	270	2.15	-
PK	5.2654G	128.76	Inf	-Inf	7.13	3	Vertical	270	2.15	-
AV	5.2612G	116.18	Inf	-Inf	7.14	3	Vertical	270	2.15	-
PK	5.3614G	65.00	74.00	-9.00	7.25	3	Vertical	270	2.15	-
AV	5.35G	52.20	54.00	-1.80	7.21	3	Vertical	270	2.15	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/07/2019

5260MHz_TX



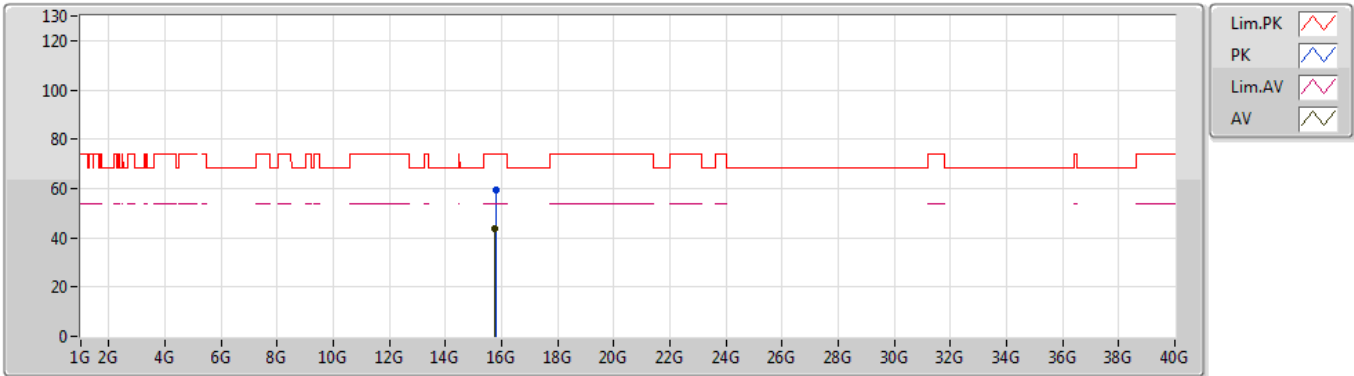
EUT_Z_4TX
Setting 100
03-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.7797G	57.30	74.00	-16.70	13.53	3	Vertical	233	1.59	-				
AV	15.76908G	43.85	54.00	-10.15	13.57	3	Vertical	233	1.59	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/07/2019

5260MHz_TX



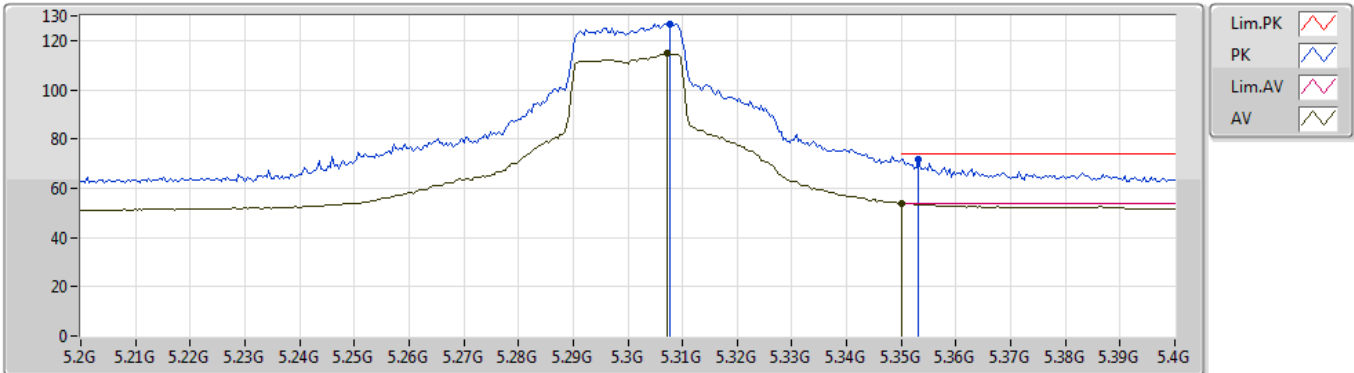
EUT_Z_4TX
Setting 100
03-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.77916G	59.20	74.00	-14.80	13.53	3	Horizontal	351	2.08	-				
AV	15.76638G	43.68	54.00	-10.32	13.58	3	Horizontal	351	2.08	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

16/07/2019

5300MHz_TX



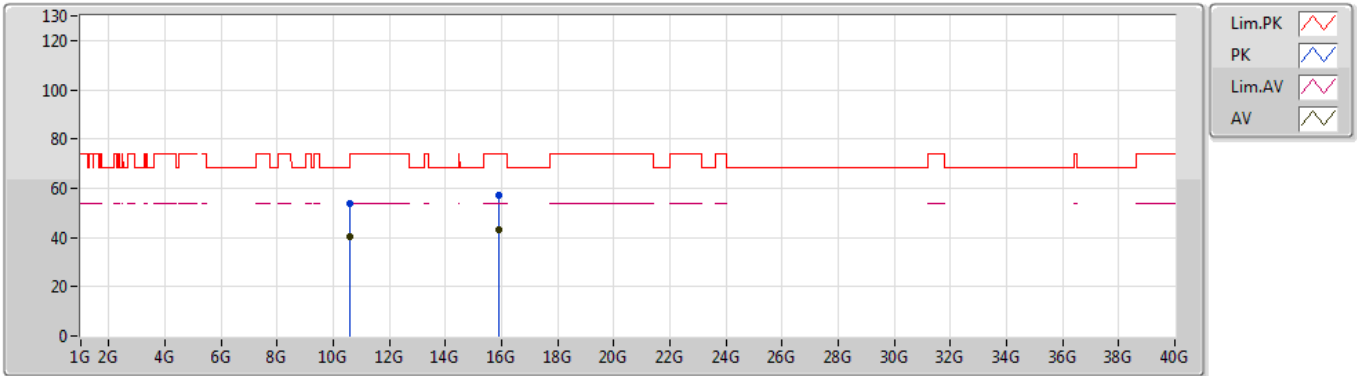
EUT_Z_4TX
Setting 98
06-K-3-13
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.3076G	126.90	Inf	-Inf	7.08	3	Vertical	282	2.73	-
AV	5.3072G	114.62	Inf	-Inf	7.08	3	Vertical	282	2.73	-
PK	5.3532G	71.90	74.00	-2.10	7.22	3	Vertical	282	2.73	-
AV	5.35G	53.85	54.00	-0.15	7.21	3	Vertical	282	2.73	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/07/2019

5300MHz_TX



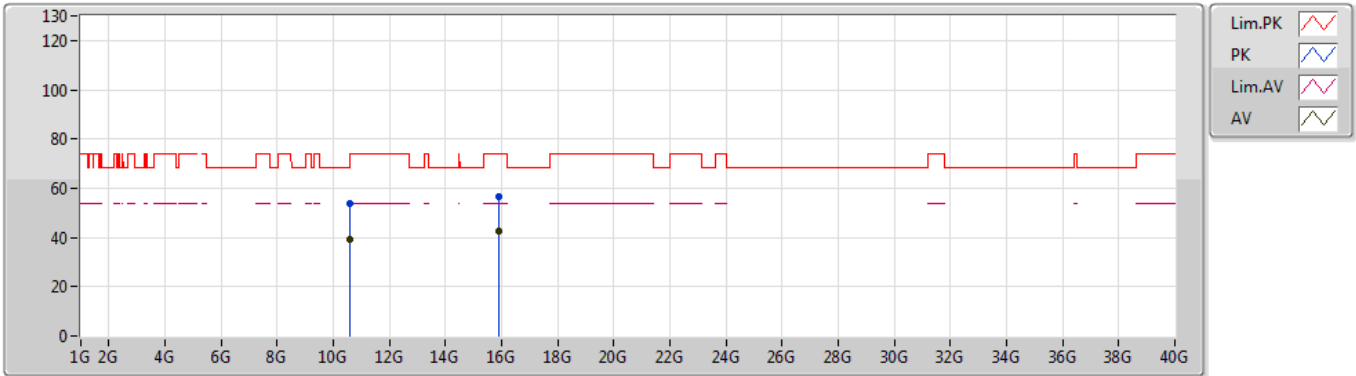
EUT_Z_4TX
Setting 98
03-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	10.60102G	53.98	74.00	-20.02	12.40	3	Vertical	207	1.59	-			
AV	10.60994G	40.28	54.00	-13.72	12.40	3	Vertical	207	1.59	-			
PK	15.903G	57.30	74.00	-16.70	13.09	3	Vertical	278	2.01	-			
AV	15.8868G	42.99	54.00	-11.01	13.15	3	Vertical	278	2.01	-			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/07/2019

5300MHz_TX



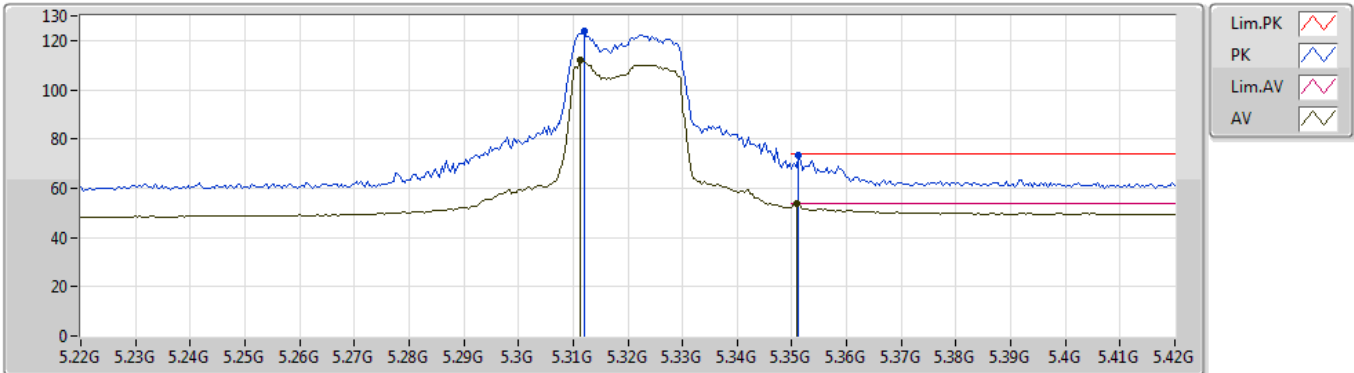
EUT_Z_4TX
Setting 98
03-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	10.60814G	53.61	74.00	-20.39	12.40	3	Horizontal	193	2.22	-			
AV	10.60762G	39.43	54.00	-14.57	12.40	3	Horizontal	193	2.22	-			
PK	15.90246G	56.71	74.00	-17.29	13.09	3	Horizontal	257	1.64	-			
AV	15.89712G	42.75	54.00	-11.25	13.11	3	Horizontal	257	1.64	-			

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

16/07/2019

5320MHz_TX



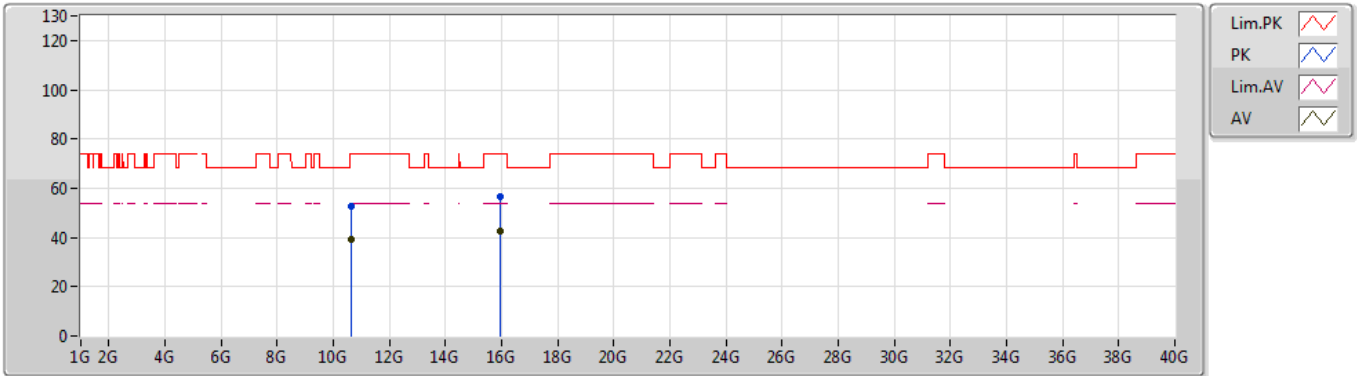
EUT_Z_4TX
Setting 83
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.312G	123.87	Inf	-Inf	7.10	3	Vertical	12	2.08	-				
AV	5.312G	111.97	Inf	-Inf	7.09	3	Vertical	12	2.08	-				
PK	5.3512G	73.14	74.00	-0.86	7.21	3	Vertical	12	2.08	-				
AV	5.3508G	53.97	54.00	-0.03	7.21	3	Vertical	12	2.08	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/07/2019

5320MHz_TX



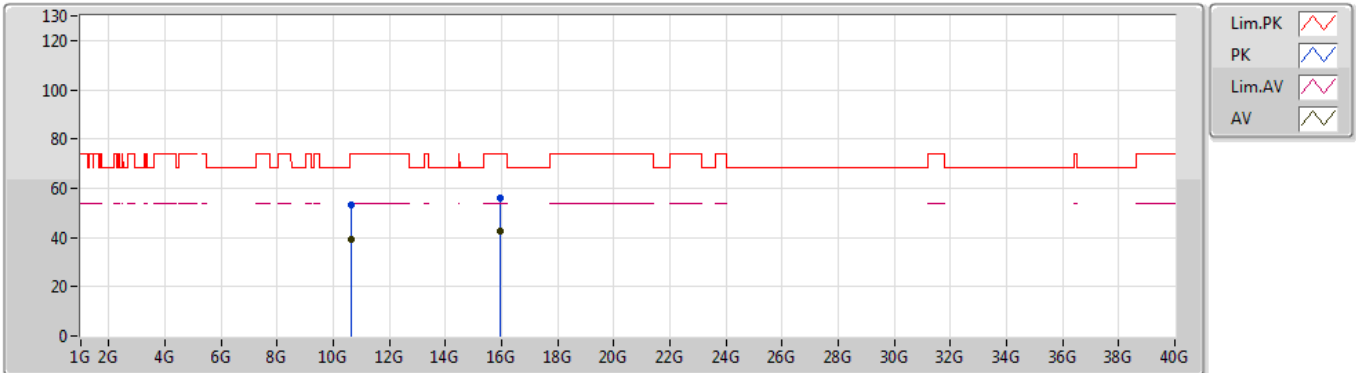
EUT_Z_4TX
Setting 83
03-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.6316G	52.94	74.00	-21.06	12.43	3	Vertical	181	1.13	-				
AV	10.62908G	39.25	54.00	-14.75	12.43	3	Vertical	181	1.13	-				
PK	15.96576G	56.85	74.00	-17.15	12.86	3	Vertical	312	2.34	-				
AV	15.95082G	42.58	54.00	-11.42	12.92	3	Vertical	312	2.34	-				

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

25/07/2019

5320MHz_TX



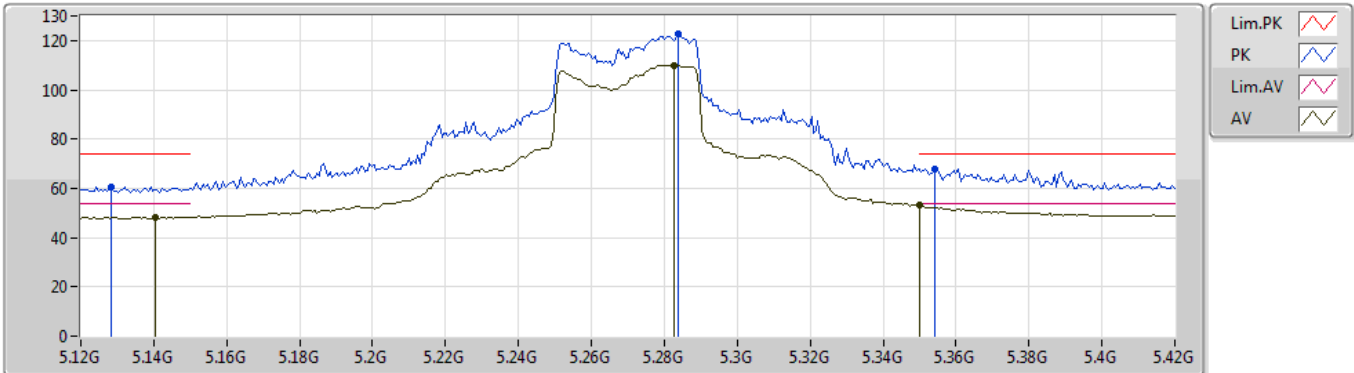
EUT_Z_4TX
Setting 83
03-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	10.63866G	53.42	74.00	-20.58	12.43	3	Horizontal	209	1.78	-			
AV	10.63502G	39.25	54.00	-14.75	12.43	3	Horizontal	209	1.78	-			
PK	15.96546G	56.29	74.00	-17.71	12.86	3	Horizontal	258	1.86	-			
AV	15.95304G	42.57	54.00	-11.43	12.91	3	Horizontal	258	1.86	-			

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

16/07/2019

5270MHz_TX



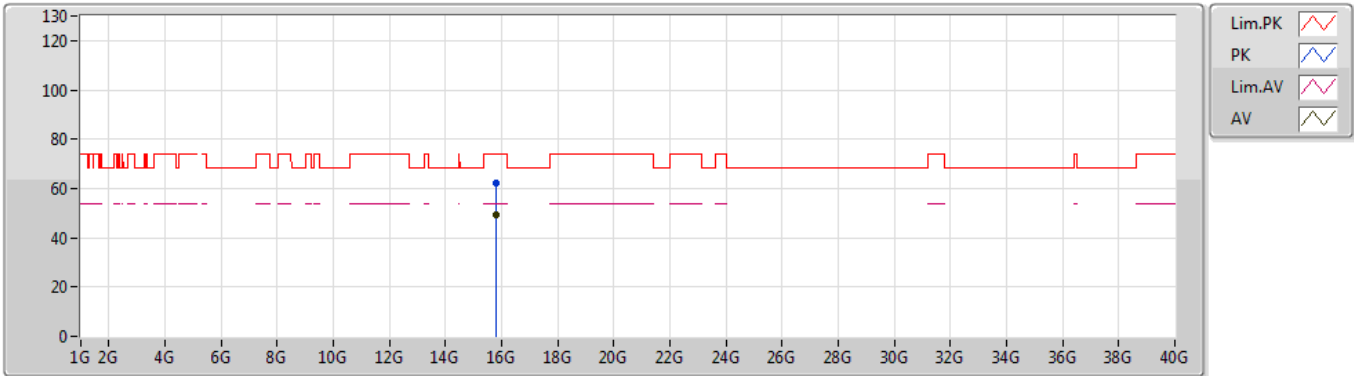
EUT_Z_4TX
Setting 96
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1284G	60.74	74.00	-13.26	7.37	3	Vertical	20	3.00	-
AV	5.1404G	48.32	54.00	-5.68	7.35	3	Vertical	20	3.00	-
PK	5.2838G	122.46	Inf	-Inf	7.09	3	Vertical	20	3.00	-
AV	5.2826G	110.09	Inf	-Inf	7.09	3	Vertical	20	3.00	-
PK	5.354G	67.76	74.00	-6.24	7.22	3	Vertical	20	3.00	-
AV	5.35G	53.30	54.00	-0.70	7.21	3	Vertical	20	3.00	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

26/07/2019

5270MHz_TX



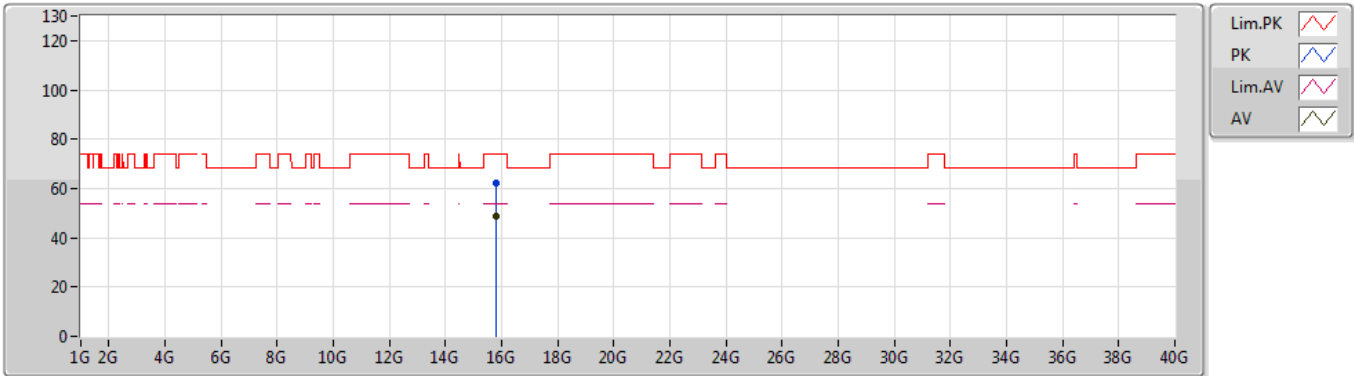
EUT_Z_4TX
Setting 96
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.79944G	62.18	74.00	-11.82	17.10	3	Vertical	218	1.50	-				
AV	15.80766G	49.20	54.00	-4.80	17.07	3	Vertical	218	1.50	-				

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

26/07/2019

5270MHz_TX



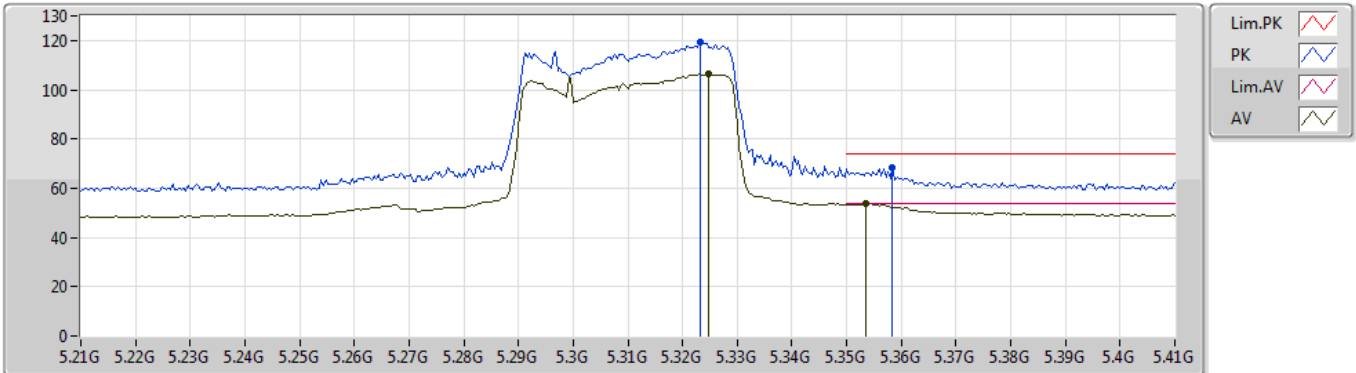
EUT_Z_4TX
Setting 96
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.80616G	62.36	74.00	-11.64	17.08	3	Horizontal	344	1.50	-				
AV	15.81684G	48.98	54.00	-5.02	17.03	3	Horizontal	344	1.50	-				

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

16/07/2019

5310MHz_TX



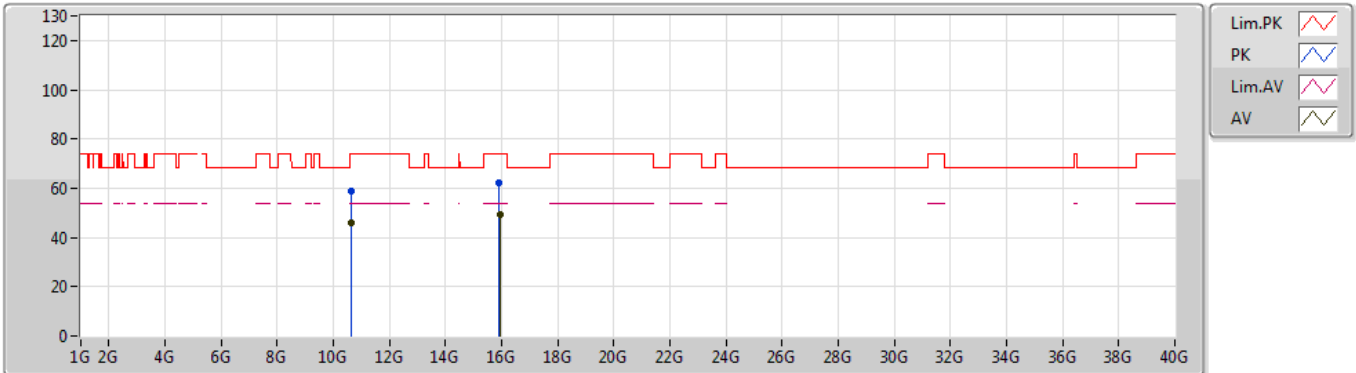
EUT_Z_4TX
Setting 74
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.3232G	119.55	Inf	-Inf	7.13	3	Vertical	19	2.21	-				
AV	5.3248G	106.61	Inf	-Inf	7.13	3	Vertical	19	2.21	-				
PK	5.3584G	68.51	74.00	-5.49	7.25	3	Vertical	19	2.21	-				
AV	5.3536G	53.70	54.00	-0.30	7.22	3	Vertical	19	2.21	-				

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

26/07/2019

5310MHz_TX



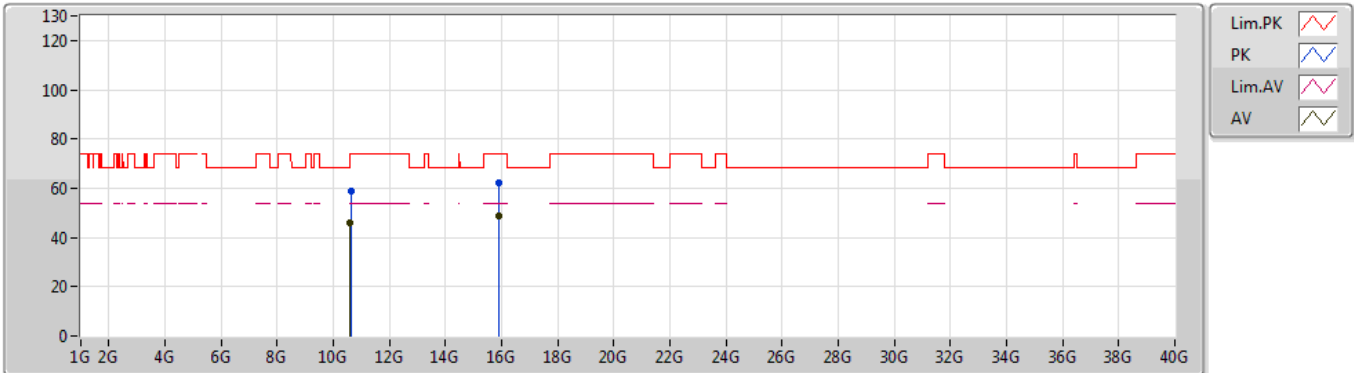
EUT_Z_4TX
Setting 74
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.62294G	58.81	74.00	-15.19	16.48	3	Vertical	358	1.96	-				
AV	10.61946G	45.69	54.00	-8.31	16.47	3	Vertical	358	1.96	-				
PK	15.91914G	62.23	74.00	-11.77	16.65	3	Vertical	289	2.16	-				
AV	15.93834G	49.08	54.00	-4.92	16.59	3	Vertical	289	2.16	-				

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

26/07/2019

5310MHz_TX



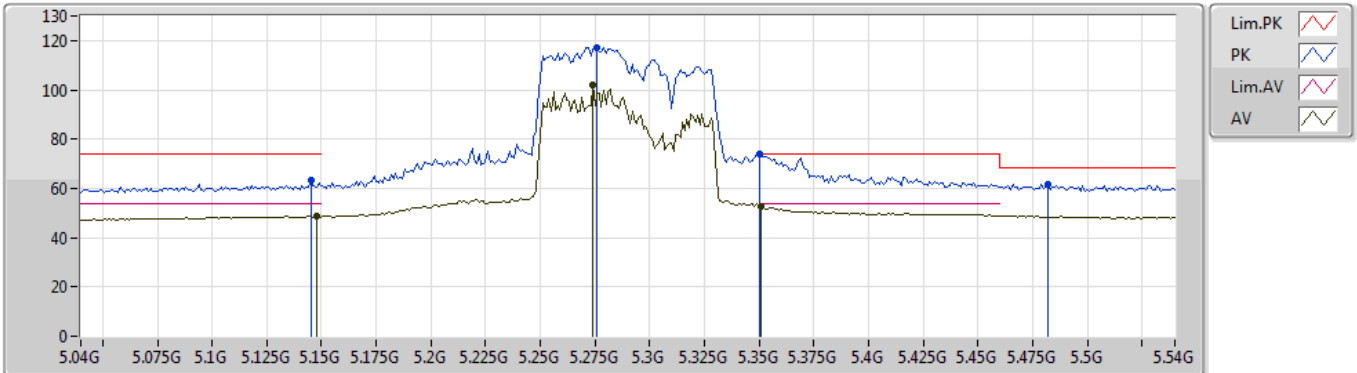
EUT_Z_4TX
Setting 74
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	10.6236G	58.60	74.00	-15.40	16.48	3	Horizontal	331	2.28	-			
AV	10.60518G	45.67	54.00	-8.33	16.45	3	Horizontal	331	2.28	-			
PK	15.92604G	62.36	74.00	-11.64	16.63	3	Horizontal	199	2.34	-			
AV	15.92166G	48.84	54.00	-5.16	16.64	3	Horizontal	199	2.34	-			

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

17/07/2019

5290MHz_TX



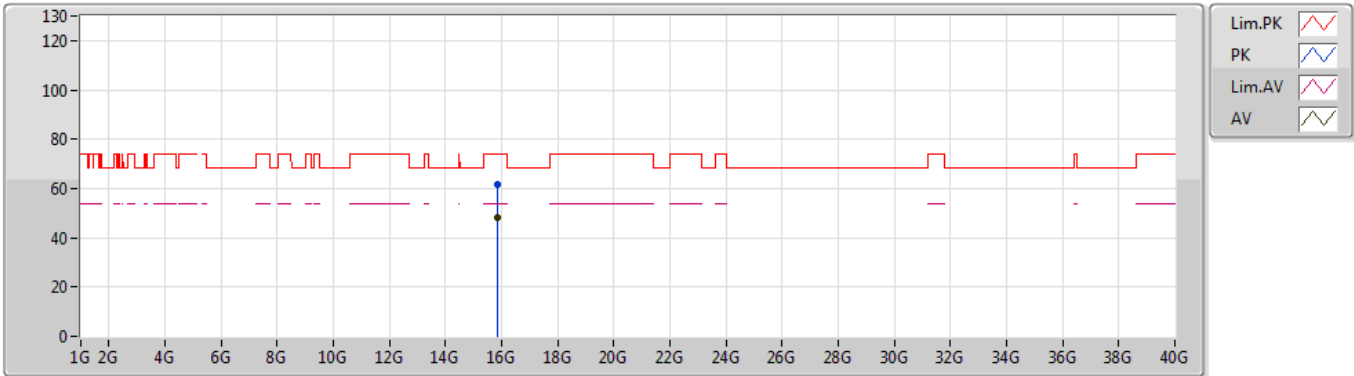
EUT_Z_4TX
Setting 79
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.145G	63.29	74.00	-10.71	7.34	3	Vertical	88	2.05	-				
AV	5.148G	48.74	54.00	-5.26	7.33	3	Vertical	88	2.05	-				
PK	5.276G	117.11	Inf	-Inf	7.11	3	Vertical	88	2.05	-				
AV	5.274G	101.93	Inf	-Inf	7.10	3	Vertical	88	2.05	-				
PK	5.35G	73.88	74.00	-0.12	7.21	3	Vertical	88	2.05	-				
AV	5.351G	52.71	54.00	-1.29	7.21	3	Vertical	88	2.05	-				
PK	5.482G	61.91	68.20	-6.29	7.56	3	Vertical	88	2.05	-				

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

26/07/2019

5290MHz_TX



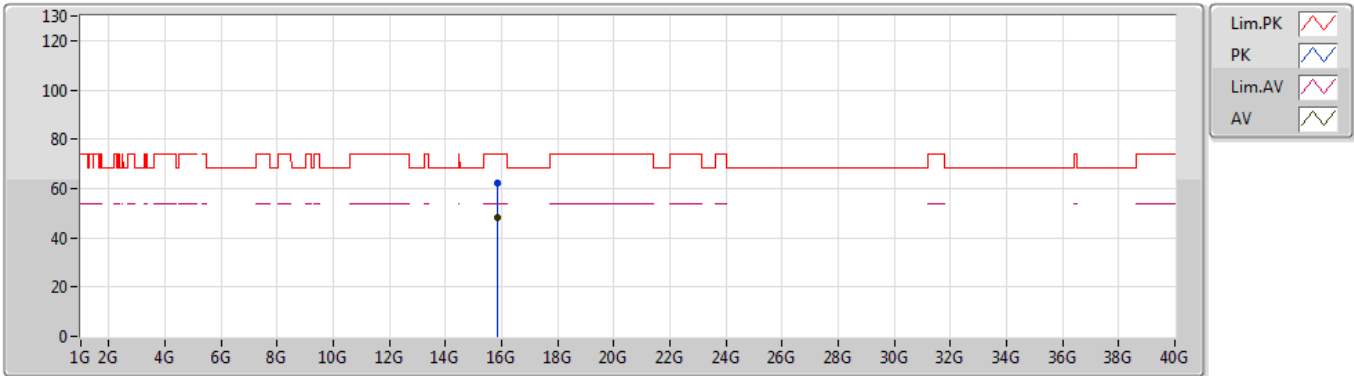
EUT_Z_4TX
Setting 79
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.87284G	61.87	74.00	-12.13	16.83	3	Vertical	247	1.85	-				
AV	15.87334G	48.25	54.00	-5.75	16.83	3	Vertical	247	1.85	-				

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

26/07/2019

5290MHz_TX



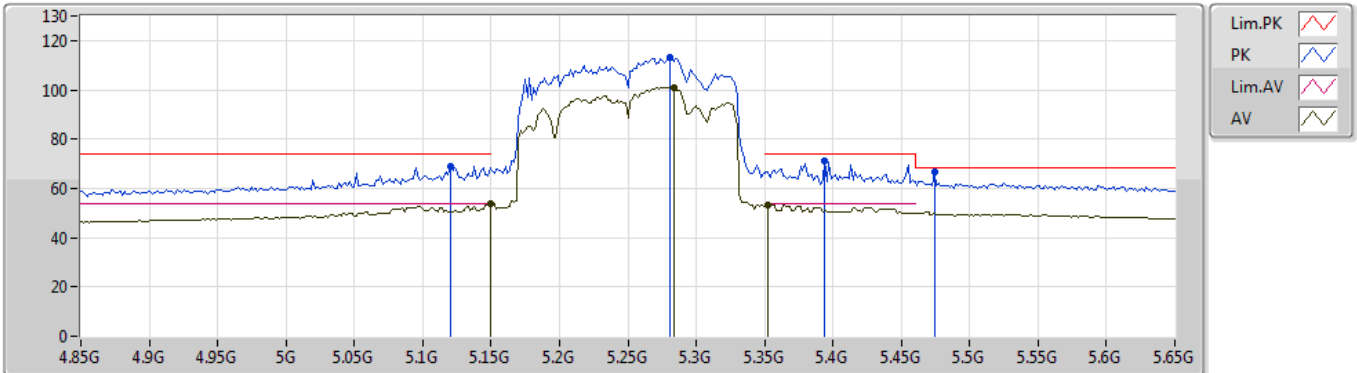
EUT_Z_4TX
Setting 79
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.87044G	62.30	74.00	-11.70	16.84	3	Horizontal	248	1.90	-				
AV	15.87184G	48.29	54.00	-5.71	16.83	3	Horizontal	248	1.90	-				

802.11ax HEW160-BF_Nss1,(MCS0)_4TX

18/07/2019

5250MHz_TX



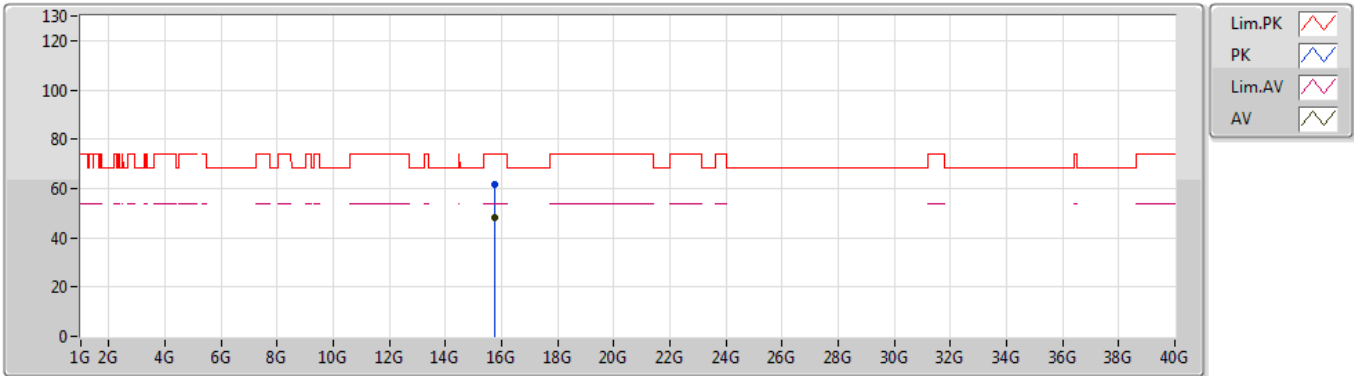
EUT Z_4TX
Setting 72
06-C-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.1204G	69.10	74.00	-4.90	7.38	3	Vertical	50	2.16	-				
AV	5.1492G	53.83	54.00	-0.17	7.33	3	Vertical	50	2.16	-				
PK	5.2804G	112.93	Inf	-Inf	7.10	3	Vertical	50	2.16	-				
AV	5.2836G	101.09	Inf	-Inf	7.09	3	Vertical	50	2.16	-				
PK	5.394G	71.34	74.00	-2.66	7.35	3	Vertical	50	2.16	-				
AV	5.3524G	53.18	54.00	-0.82	7.22	3	Vertical	50	2.16	-				
PK	5.474G	66.90	68.20	-1.30	7.54	3	Vertical	50	2.16	-				

802.11ax HEW160-BF_Nss1,(MCS0)_4TX

26/07/2019

5250MHz_TX



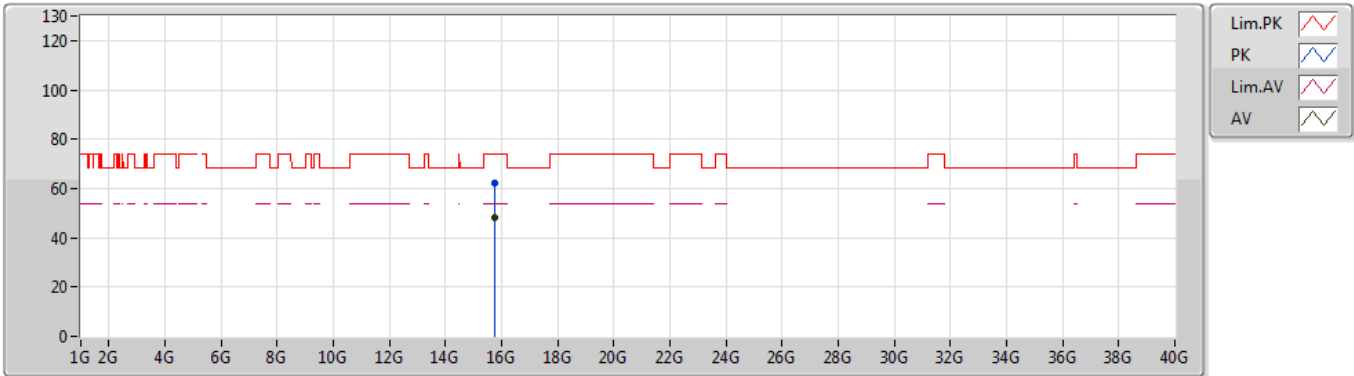
EUT_Z_4TX
Setting 72
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.74526G	61.80	74.00	-12.20	17.31	3	Vertical	303	2.03	-				
AV	15.75178G	48.38	54.00	-5.62	17.27	3	Vertical	303	2.03	-				

802.11ax HEW160-BF_Nss1,(MCS0)_4TX

26/07/2019

5250MHz_TX



EUT_Z_4TX
Setting 72
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.74596G	62.28	74.00	-11.72	17.31	3	Horizontal	195	2.47	-				
AV	15.74932G	48.17	54.00	-5.83	17.29	3	Horizontal	195	2.47	-				



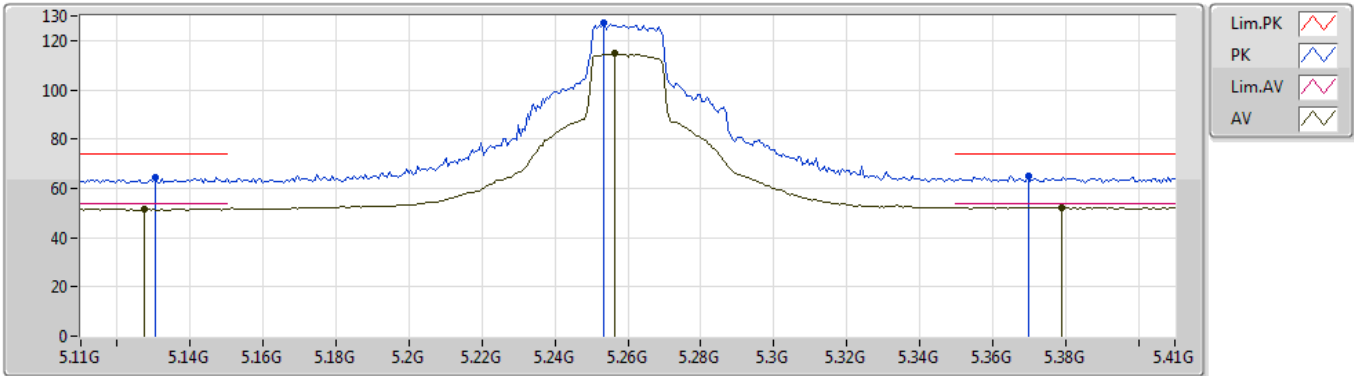
**4T2S / For beamforming mode
Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss2,(MCS0)_4TX	Pass	AV	5.35G	53.99	54.00	-0.01	7.21	3	Vertical	344	2.85	-

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

17/07/2019

5260MHz_TX



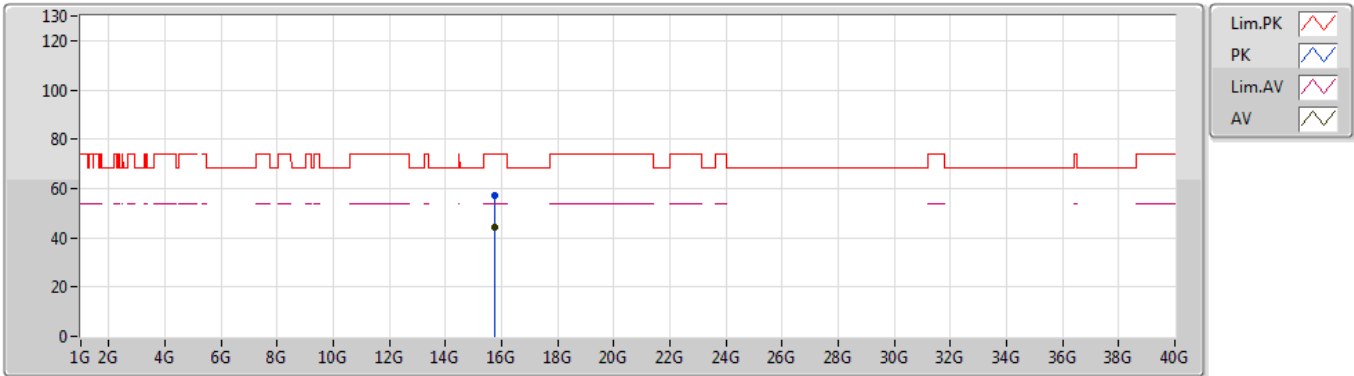
EUT Z_4TX
Setting 100
06-K-3-13
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.1304G	64.67	74.00	-9.33	7.36	3	Vertical	351	2.30	-
AV	5.1274G	51.72	54.00	-2.28	7.37	3	Vertical	351	2.30	-
PK	5.2534G	126.92	Inf	-Inf	7.14	3	Vertical	351	2.30	-
AV	5.2564G	114.77	Inf	-Inf	7.14	3	Vertical	351	2.30	-
PK	5.3698G	64.98	74.00	-9.02	7.28	3	Vertical	351	2.30	-
AV	5.3788G	52.31	54.00	-1.69	7.31	3	Vertical	351	2.30	-

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

25/07/2019

5260MHz_TX



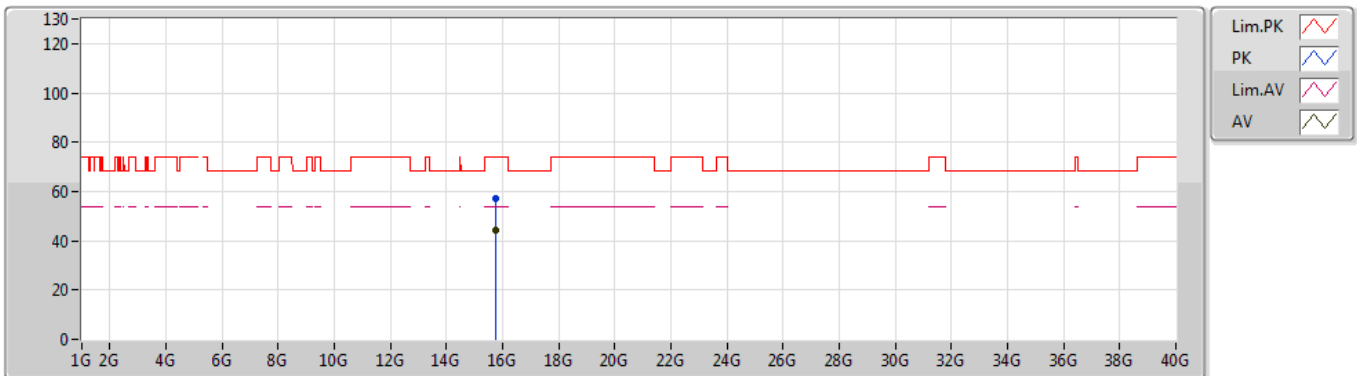
EUT_Z_4TX
Setting 100
03-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.76572G	57.19	74.00	-16.81	13.58	3	Vertical	124	1.48	-				
AV	15.77556G	44.37	54.00	-9.63	13.54	3	Vertical	124	1.48	-				

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

25/07/2019

5260MHz_TX



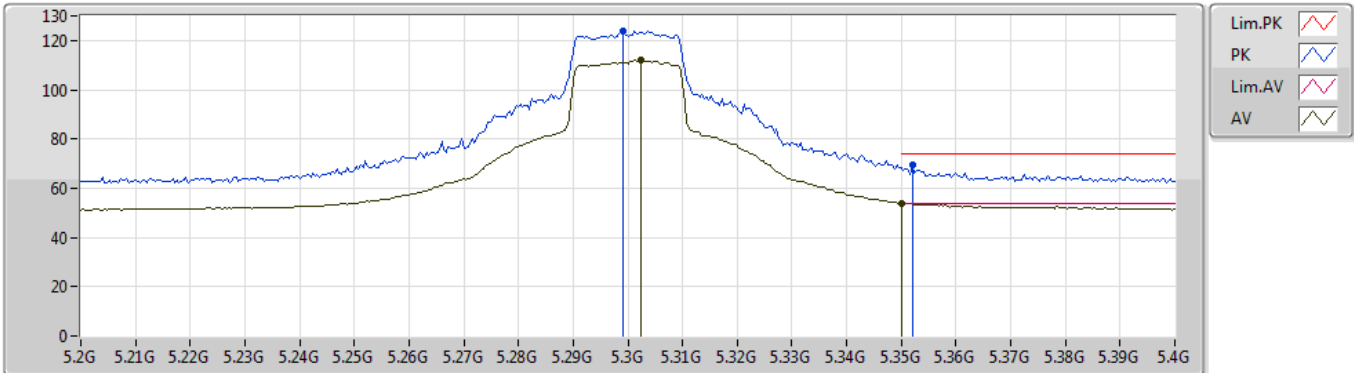
EUT_Z_4TX
Setting 100
03-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.76824G	57.32	74.00	-16.68	13.58	3	Horizontal	243	1.26	-				
AV	15.77076G	44.24	54.00	-9.76	13.57	3	Horizontal	243	1.26	-				

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

17/07/2019

5300MHz_TX



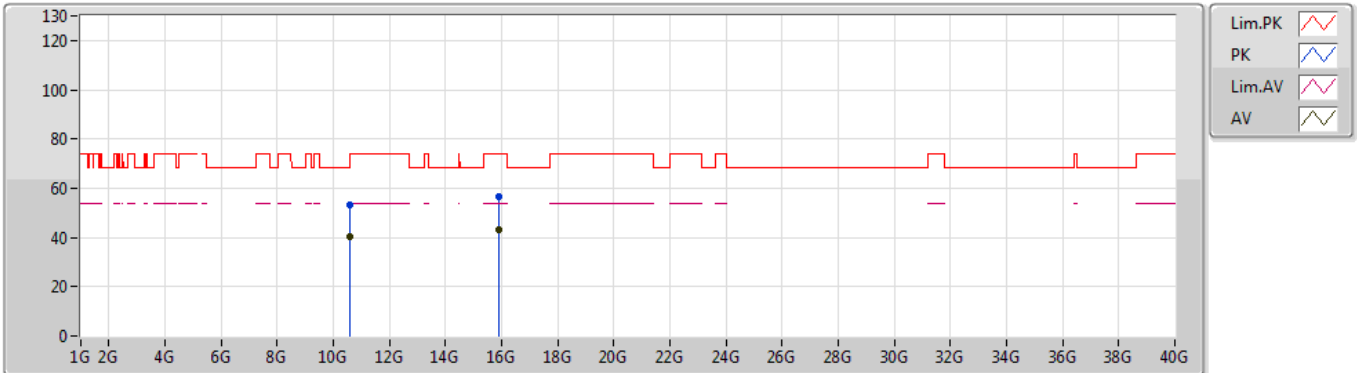
EUT_Z_4TX
Setting 98
06-K-3-13
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	5.2992G	124.04	Inf	-Inf	7.06	3	Vertical	344	2.85	-			
AV	5.3024G	111.93	Inf	-Inf	7.07	3	Vertical	344	2.85	-			
PK	5.352G	69.26	74.00	-4.74	7.22	3	Vertical	344	2.85	-			
AV	5.35G	53.99	54.00	-0.01	7.21	3	Vertical	344	2.85	-			

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

25/07/2019

5300MHz_TX



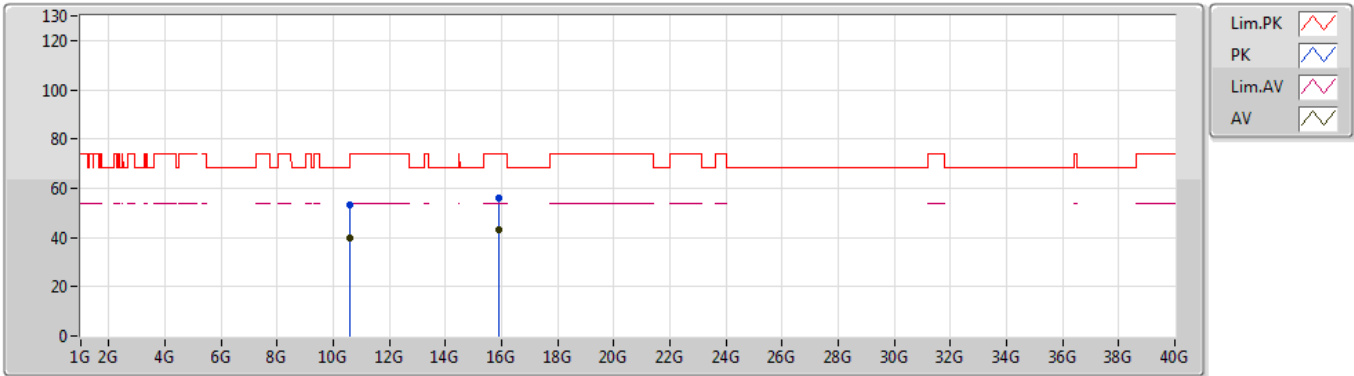
EUT_Z_4TX
Setting 98
03-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.60108G	53.34	74.00	-20.66	12.40	3	Vertical	220	1.39	-				
AV	10.60504G	40.31	54.00	-13.69	12.40	3	Vertical	220	1.39	-				
PK	15.906G	56.34	74.00	-17.66	13.07	3	Vertical	343	1.48	-				
AV	15.90204G	43.31	54.00	-10.69	13.09	3	Vertical	343	1.48	-				

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

25/07/2019

5300MHz_TX



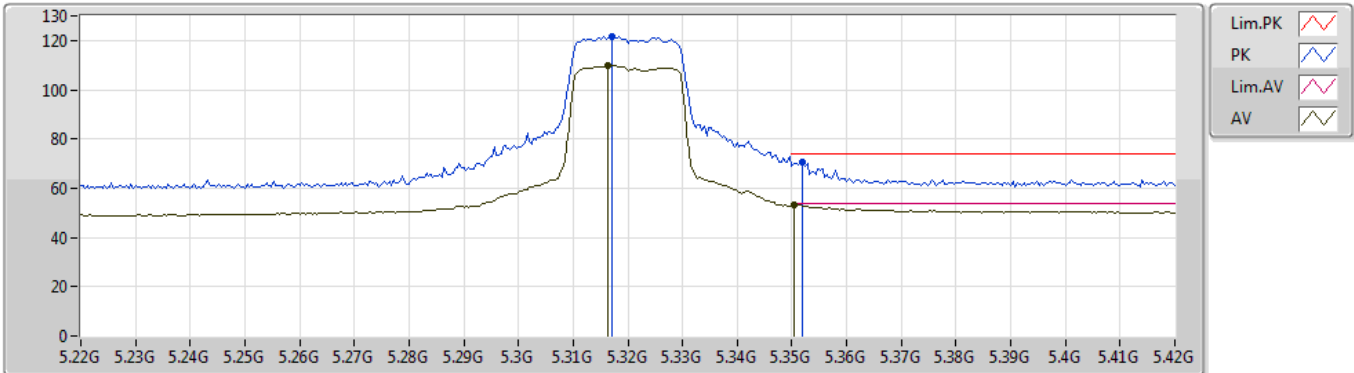
EUT_Z_4TX
Setting 98
03-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	10.6147G	52.96	74.00	-21.04	12.41	3	Horizontal	310	1.48	-			
AV	10.60336G	39.78	54.00	-14.22	12.40	3	Horizontal	310	1.48	-			
PK	15.90372G	56.01	74.00	-17.99	13.09	3	Horizontal	240	1.33	-			
AV	15.89982G	43.16	54.00	-10.84	13.10	3	Horizontal	240	1.33	-			

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

17/07/2019

5320MHz_TX



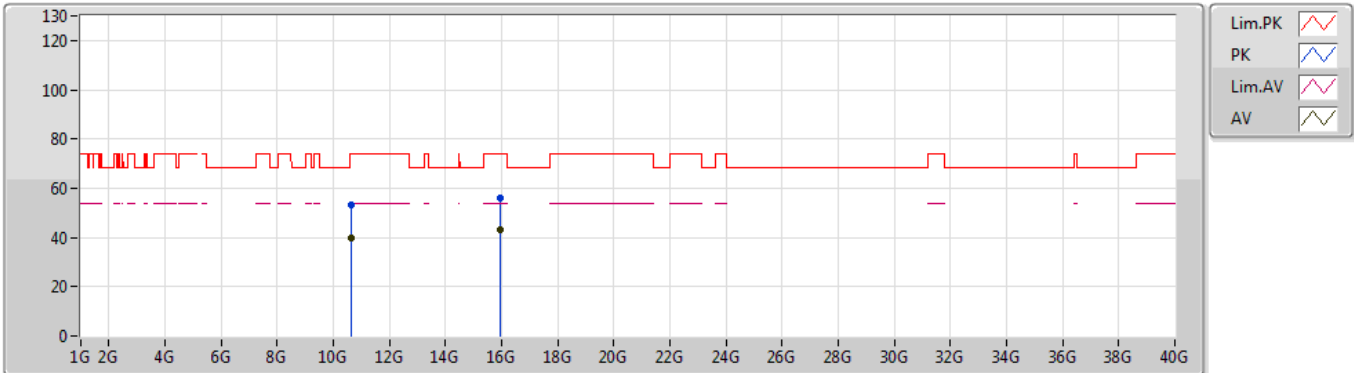
EUT_Z_4TX
Setting 83
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.3172G	121.69	Inf	-Inf	7.11	3	Vertical	12	2.39	-				
AV	5.3164G	109.67	Inf	-Inf	7.11	3	Vertical	12	2.39	-				
PK	5.352G	70.41	74.00	-3.59	7.22	3	Vertical	12	2.39	-				
AV	5.3504G	53.47	54.00	-0.53	7.21	3	Vertical	12	2.39	-				

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

25/07/2019

5320MHz_TX



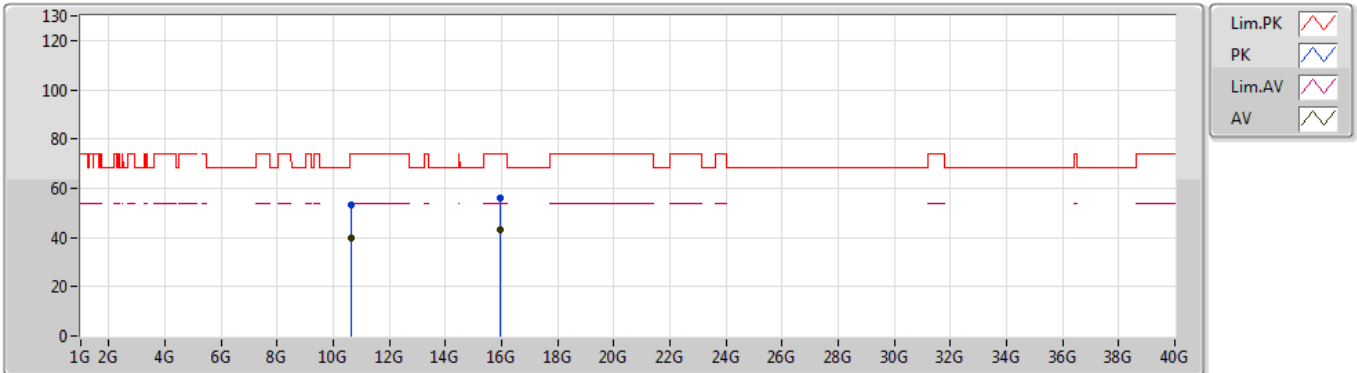
EUT_Z_4TX
Setting 83
03-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	10.6399G	53.27	74.00	-20.73	12.44	3	Vertical	334	1.43	-			
AV	10.63982G	39.84	54.00	-14.16	12.44	3	Vertical	334	1.43	-			
PK	15.95988G	55.80	74.00	-18.20	12.88	3	Vertical	321	1.60	-			
AV	15.951G	43.11	54.00	-10.89	12.92	3	Vertical	321	1.60	-			

802.11ax HEW20-BF_Nss2,(MCS0)_4TX

25/07/2019

5320MHz_TX



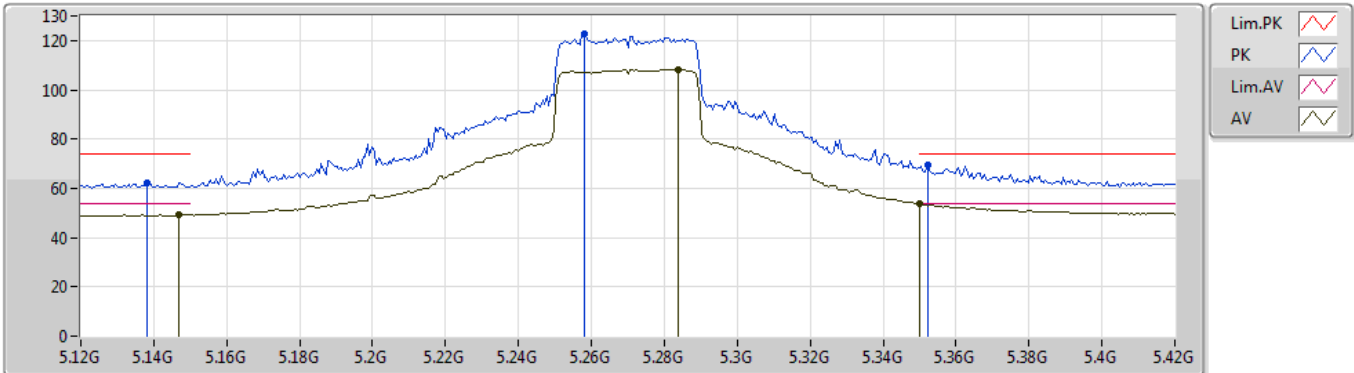
EUT_Z_4TX
Setting 83
03-B-4
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.64518G	53.10	74.00	-20.90	12.44	3	Horizontal	94	2.31	-				
AV	10.64324G	39.69	54.00	-14.31	12.44	3	Horizontal	94	2.31	-				
PK	15.96402G	56.21	74.00	-17.79	12.88	3	Horizontal	103	2.43	-				
AV	15.96556G	43.06	54.00	-10.94	12.86	3	Horizontal	103	2.43	-				

802.11ax HEW40-BF_Nss2,(MCS0)_4TX

17/07/2019

5270MHz_TX



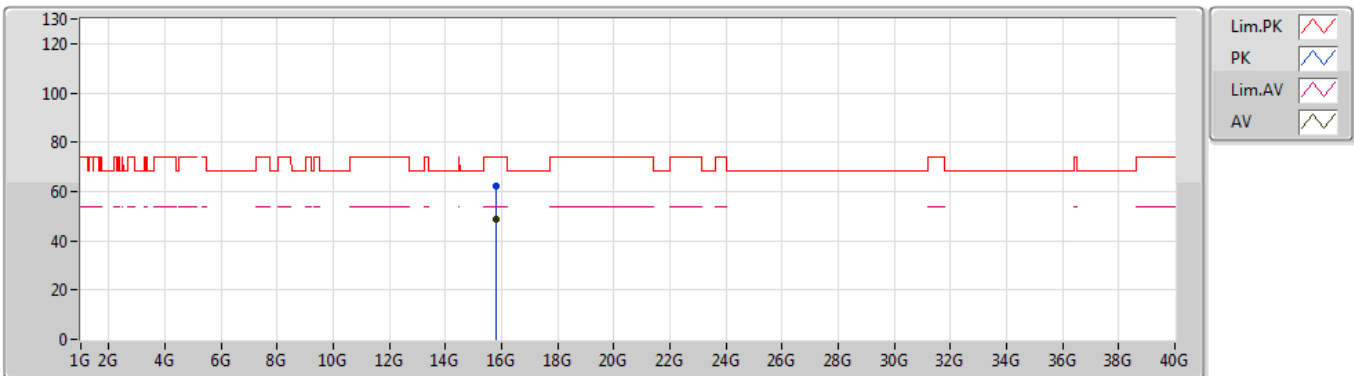
EUT Z_4TX
Setting 95
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	5.138G	62.38	74.00	-11.62	7.34	3	Vertical	271	2.01	-
AV	5.147G	49.21	54.00	-4.79	7.34	3	Vertical	271	2.01	-
PK	5.258G	122.81	Inf	-Inf	7.13	3	Vertical	271	2.01	-
AV	5.2838G	108.30	Inf	-Inf	7.09	3	Vertical	271	2.01	-
PK	5.3522G	69.23	74.00	-4.77	7.22	3	Vertical	271	2.01	-
AV	5.35G	53.68	54.00	-0.32	7.21	3	Vertical	271	2.01	-

802.11ax HEW40-BF_Nss2,(MCS0)_4TX

26/07/2019

5270MHz_TX



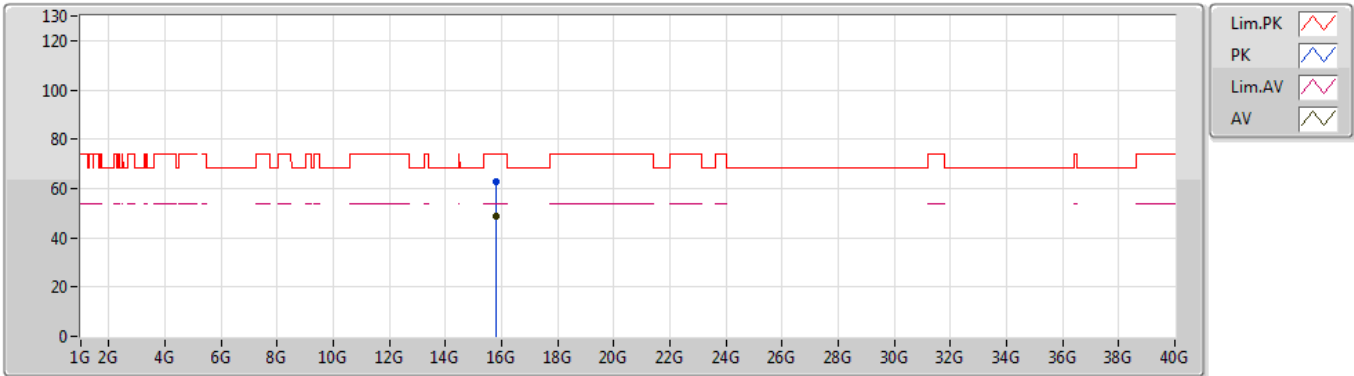
EUT_Z_4TX
Setting 95
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.80592G	62.10	74.00	-11.90	17.07	3	Vertical	349	1.27	-				
AV	15.8184G	48.58	54.00	-5.42	17.03	3	Vertical	349	1.27	-				

802.11ax HEW40-BF_Nss2,(MCS0)_4TX

26/07/2019

5270MHz_TX



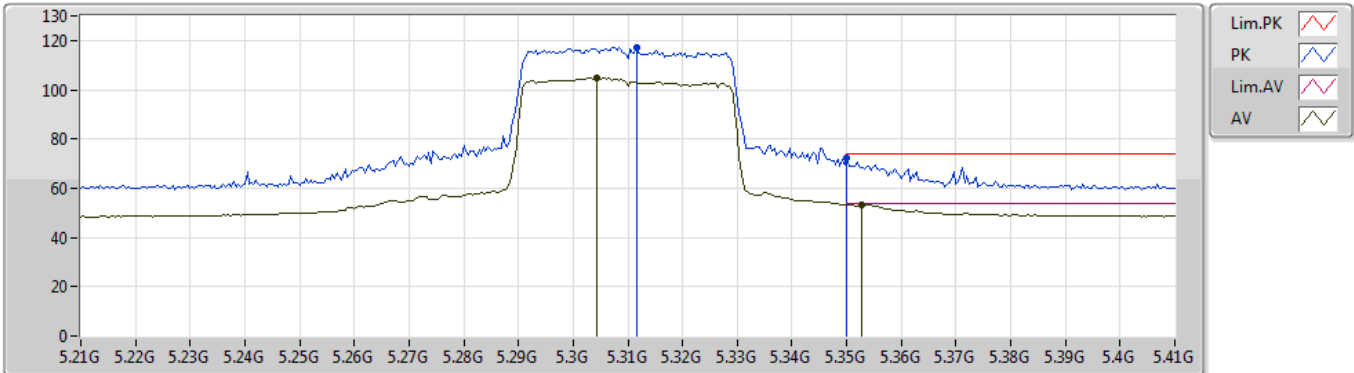
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Setting 95
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.80034G	62.79	74.00	-11.21	17.10	3	Horizontal	311	1.95	-				
AV	15.81474G	48.59	54.00	-5.41	17.04	3	Horizontal	311	1.95	-				

802.11ax HEW40-BF_Nss2,(MCS0)_4TX

17/07/2019

5310MHz_TX



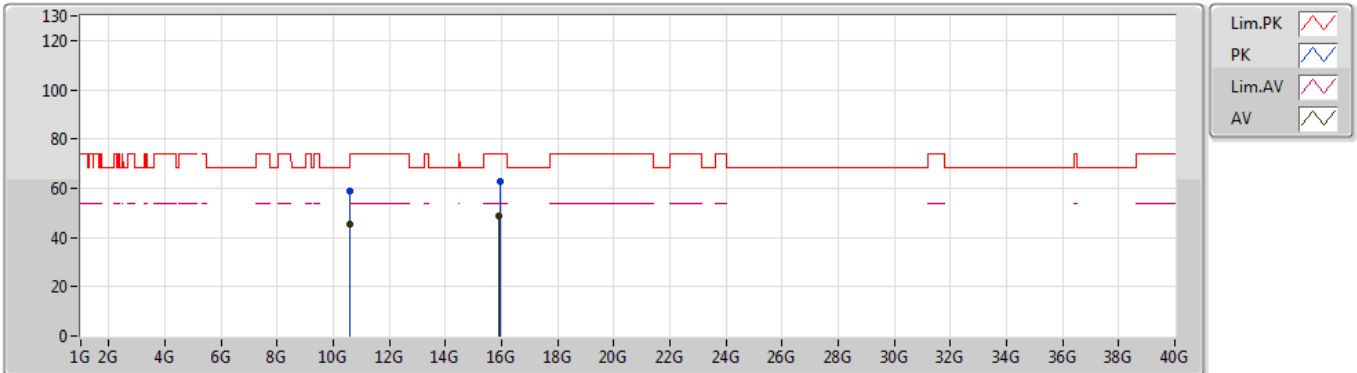
EUT_Z_4TX
Setting 77
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	5.3116G	117.08	Inf	-Inf	7.09	3	Vertical	345	1.95	-			
AV	5.3044G	104.62	Inf	-Inf	7.07	3	Vertical	345	1.95	-			
PK	5.35G	72.32	74.00	-1.68	7.21	3	Vertical	345	1.95	-			
AV	5.3528G	53.46	54.00	-0.54	7.22	3	Vertical	345	1.95	-			

802.11ax HEW40-BF_Nss2,(MCS0)_4TX

26/07/2019

5310MHz_TX



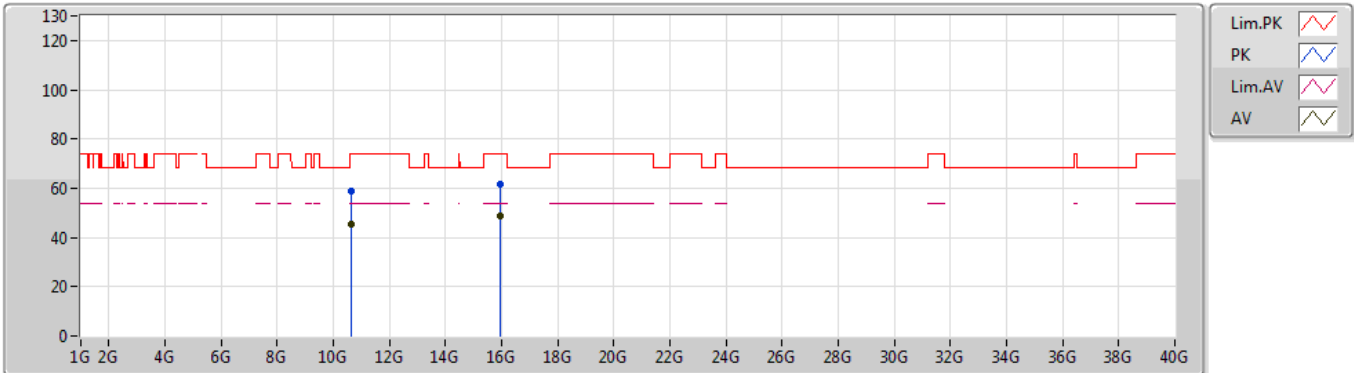
EUT_Z_4TX
Setting 77
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.60644G	59.08	74.00	-14.92	16.45	3	Vertical	347	1.90	-				
AV	10.60974G	45.35	54.00	-8.65	16.45	3	Vertical	347	1.90	-				
PK	15.93446G	62.82	74.00	-11.18	16.60	3	Vertical	203	1.92	-				
AV	15.9255G	48.64	54.00	-5.36	16.63	3	Vertical	203	1.92	-				

802.11ax HEW40-BF_Nss2,(MCS0)_4TX

26/07/2019

5310MHz_TX



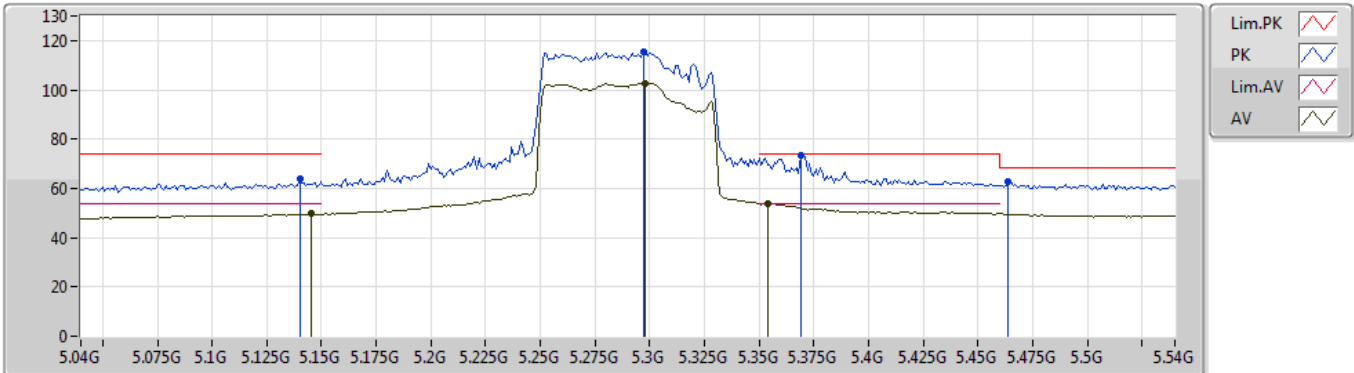
EUT_Z_4TX
Setting 77
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	10.61636G	58.87	74.00	-15.13	16.46	3	Horizontal	340	1.83	-				
AV	10.61516G	45.12	54.00	-8.88	16.46	3	Horizontal	340	1.83	-				
PK	15.92674G	61.84	74.00	-12.16	16.62	3	Horizontal	92	2.01	-				
AV	15.9267G	48.55	54.00	-5.45	16.62	3	Horizontal	92	2.01	-				

802.11ax HEW80-BF_Nss2,(MCS0)_4TX

17/07/2019

5290MHz_TX



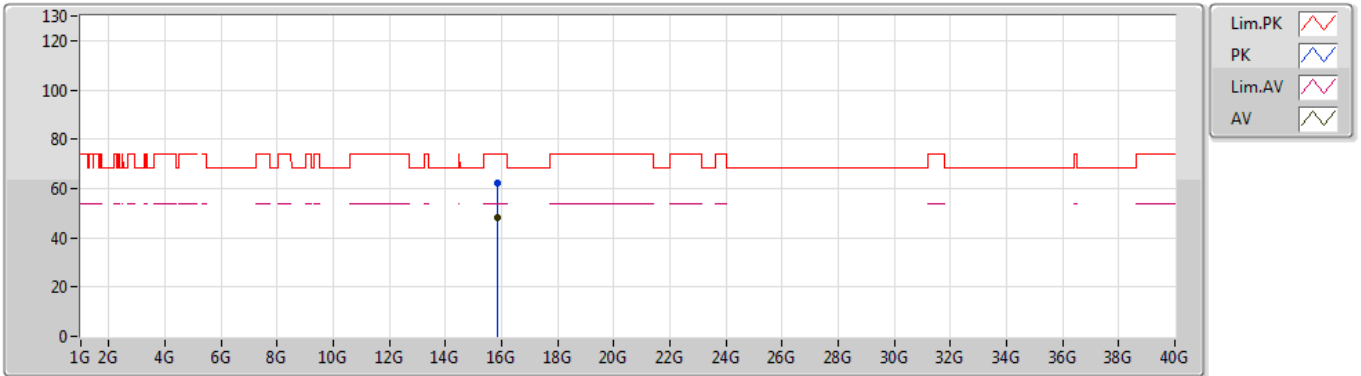
EUT_Z_4TX
Setting 78
06-K-3-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.14G	63.77	74.00	-10.23	7.35	3	Vertical	347	2.03	-				
AV	5.145G	49.62	54.00	-4.38	7.34	3	Vertical	347	2.03	-				
PK	5.297G	115.32	Inf	-Inf	7.07	3	Vertical	347	2.03	-				
AV	5.298G	102.81	Inf	-Inf	7.06	3	Vertical	347	2.03	-				
PK	5.369G	73.29	74.00	-0.71	7.28	3	Vertical	347	2.03	-				
AV	5.354G	53.79	54.00	-0.21	7.22	3	Vertical	347	2.03	-				
PK	5.464G	63.00	68.20	-5.20	7.52	3	Vertical	347	2.03	-				

802.11ax HEW80-BF_Nss2,(MCS0)_4TX

26/07/2019

5290MHz_TX



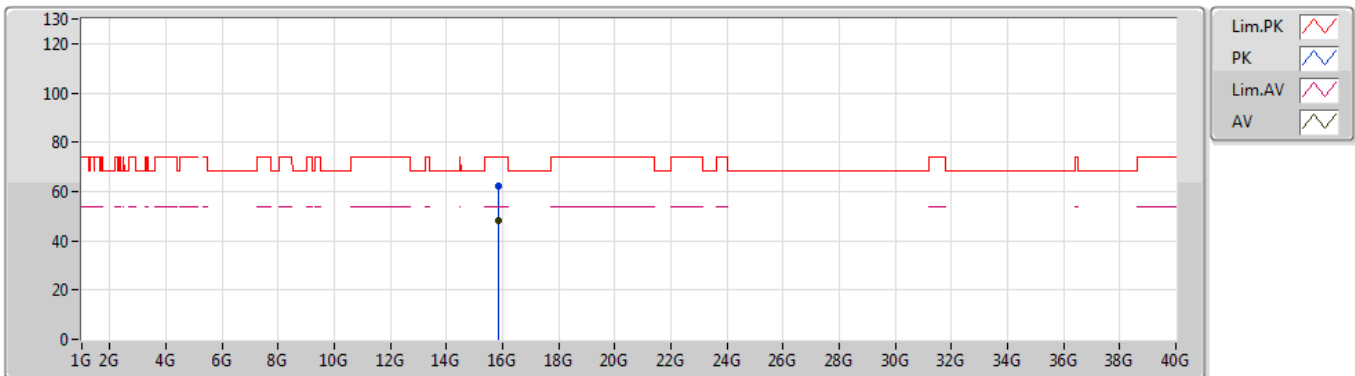
EUT_Z_4TX
Setting 78
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.86884G	62.39	74.00	-11.61	16.84	3	Vertical	307	2.49	-				
AV	15.86862G	48.20	54.00	-5.80	16.85	3	Vertical	307	2.49	-				

802.11ax HEW80-BF_Nss2,(MCS0)_4TX

26/07/2019

5290MHz_TX



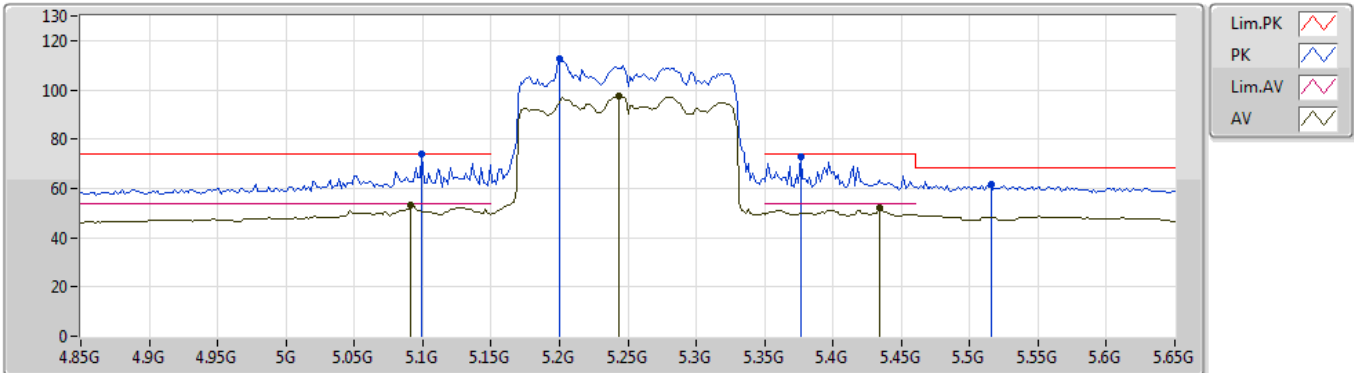
EUT_Z_4TX
Setting 78
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.86528G	61.96	74.00	-12.04	16.85	3	Horizontal	203	1.60	-				
AV	15.87062G	48.14	54.00	-5.86	16.84	3	Horizontal	203	1.60	-				

802.11ax HEW160-BF_Nss2,(MCS0)_4TX

18/07/2019

5250MHz_TX



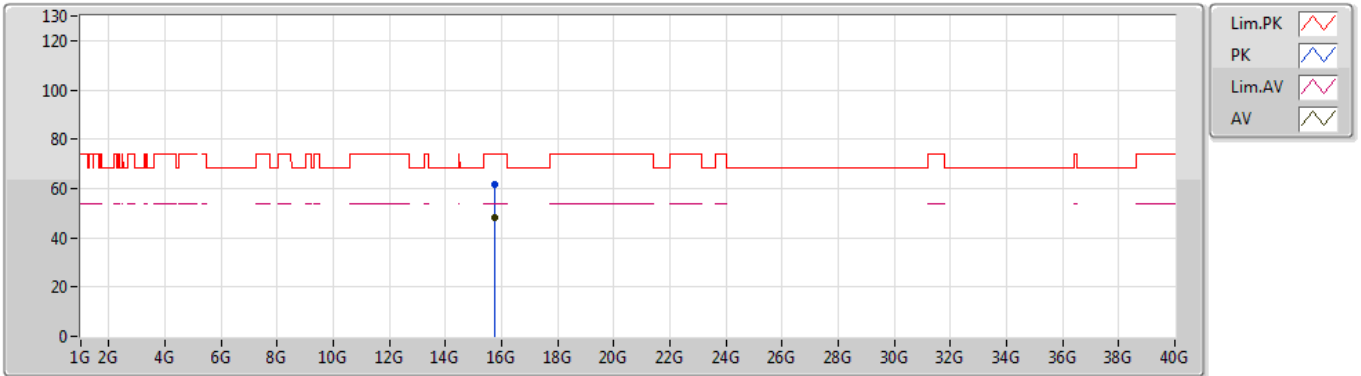
EUT Z_4TX
Setting 72
06-C-4-10
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	5.0996G	73.90	74.00	-0.10	7.41	3	Vertical	55	2.59	-				
AV	5.0916G	53.18	54.00	-0.82	7.37	3	Vertical	55	2.59	-				
PK	5.2004G	112.73	Inf	-Inf	7.25	3	Vertical	55	2.59	-				
AV	5.2436G	97.52	Inf	-Inf	7.17	3	Vertical	55	2.59	-				
PK	5.3764G	72.73	74.00	-1.27	7.30	3	Vertical	55	2.59	-				
AV	5.434G	51.94	54.00	-2.06	7.45	3	Vertical	55	2.59	-				
PK	5.5156G	61.87	68.20	-6.33	7.58	3	Vertical	55	2.59	-				

802.11ax HEW160-BF_Nss2,(MCS0)_4TX

26/07/2019

5250MHz_TX



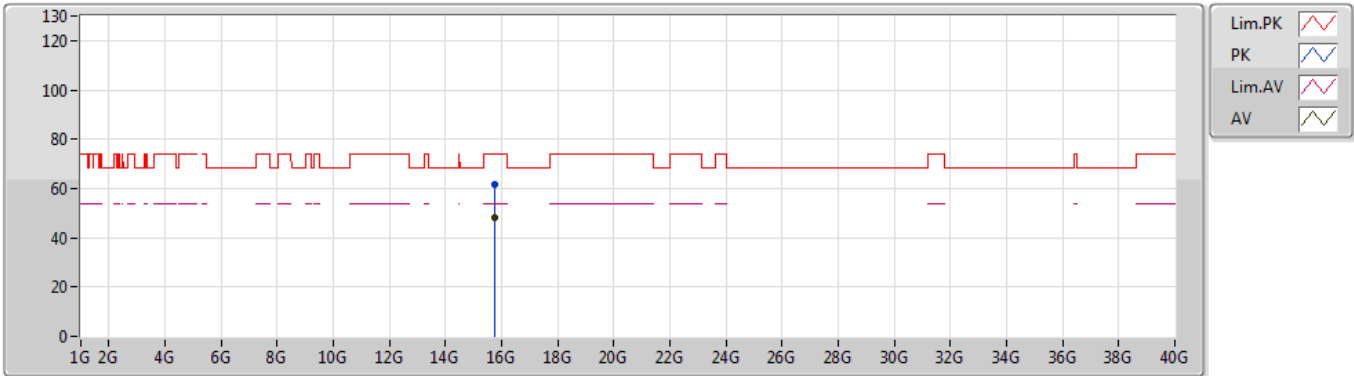
EUT_Z_4TX
Setting 72
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.75354G	61.72	74.00	-12.28	17.27	3	Vertical	168	1.59	-				
AV	15.7492G	48.18	54.00	-5.82	17.29	3	Vertical	168	1.59	-				

802.11ax HEW160-BF_Nss2,(MCS0)_4TX

26/07/2019

5250MHz_TX



EUT_Z_4TX
Setting 72
06-K-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	15.74538G	61.83	74.00	-12.17	17.31	3	Horizontal	339	2.11	-				
AV	15.75286G	48.13	54.00	-5.87	17.27	3	Horizontal	339	2.11	-				