



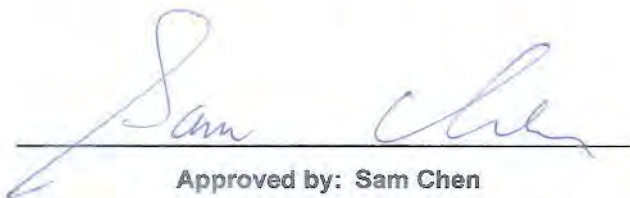
FCC RADIO TEST REPORT

FCC ID : S9GR650
Equipment : R650 Access Point
Brand Name : Ruckus
Model Name : R650
Applicant : Ruckus Wireless, Inc.
350 West Java Drive, Sunnyvale , California 94089
United States
Manufacturer : Ruckus Wireless, Inc.
350 West Java Drive, Sunnyvale , California 94089
United States
Standard : 47 CFR FCC Part 15.407

The product was received on Sep. 11, 2019, and testing was started from Sep. 14, 2019 and completed on Nov. 14, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Sam Chen

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



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



Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Sandy Chuang



1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.15-5.25GHz	802.11n HT20	20	4TX
5.15-5.25GHz	802.11n HT20-BF	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.15-5.25GHz	802.11ax HEW20-BF	20	4TX
5.15-5.25GHz	802.11n HT40	40	4TX
5.15-5.25GHz	802.11n HT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.15-5.25GHz	802.11ax HEW40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX
5.725-5.85GHz	802.11a	20	4TX
5.725-5.85GHz	802.11n HT20	20	4TX
5.725-5.85GHz	802.11n HT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11n HT40	40	4TX



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11n HT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX

Note:

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

**1.1.2 Antenna Information**

Ant.	Port				Brand	Model Name	Ant. Type	Connector	Ant. Gain (dBi)			
	WLAN		BT	Zigbee					WLAN		BT	Zigbee
	2.4GHz	5GHz							2.4GHz	5GHz		
1	1	-	-	-	Ruckus	KAUS	PCB	I-PEX	2.3	-	-	-
2	2	-	-	-	Ruckus	HERSCHEL	PCB	I-PEX	2.3	-	-	-
3	-	1	-	-	Ruckus	PIFA5G	Metal	I-PEX	-	2	-	-
4	-	2	-	-	Ruckus	QUASAR	PCB	I-PEX	-	2	-	-
5	-	3	-	-	Ruckus	SADAL	PCB	I-PEX	-	2	-	-
6	-	4	-	-	Ruckus	CORZAR	PCB	I-PEX	-	2	-	-
7	-	-	1	-	Ruckus	BLE	Metal	I-PEX	-	-	1.4	-
8	-	-	-	1	Ruckus	ZIGBEE	Metal	I-PEX	-	-	-	1.4

Note 1:

WLAN 2.4GHz and 5GHz antenna configuration:

Ant.	Polarity				Array Gain (dBi)	
	2.4GHz		5GHz		2.4GHz	5GHz
	Vertical	Horizontal	Vertical	Horizontal		
1	V	-	-	-	0	-
2	-	V	-	-		-
3	-	-	V	-	-	3.01
4	-	-	-	V	-	
5	-	-	-	V	-	
6	-	-	V	-	-	

Note 2: The above information was declared by manufacturer.

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

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

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

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

For Bluetooth function:

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

For Zigbee function:

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

**1.1.3 Mode Test Duty Cycle****RU(100%):**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.949	0.23	1.98m	1k
802.11ac VHT20	0.951	0.22	5.435m	300
802.11ac VHT40	0.95	0.22	5.435m	300
802.11ac VHT80	0.953	0.21	5.435m	300
802.11ax HEW20	0.955	0.2	5.46m	300
802.11ax HEW40	0.955	0.2	5.455m	300
802.11ax HEW80	0.957	0.19	5.46m	300

RU (20M: 66% / 40M: 60% / 80M: 48%):

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.845	0.73	1.575m	1k
802.11ax HEW40	0.9	0.46	2.06m	1k
802.11ax HEW80	0.785	1.05	795u	3k

RU (20M: 56% / 40M: 56% / 80M: 72%):

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.946	0.24	3.87m	300
802.11ax HEW40	0.902	0.45	2.84m	1k
802.11ax HEW80	0.85	0.71	1.99m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/ac/ax in 5GHz.			
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	4.0.00123			

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Jeff Wu	22.4-23.8°C / 49-54%	Sep. 16, 2019~ Nov. 14, 2019
Radiated (Below 1GHz)	03CH05-CB	KJ Chang	23.2-25.4°C / 51-54%	Sep. 14, 2019~ Nov. 08, 2019
Radiated (Above 1GHz)	03CH01-CB	KJ Chang	24.8-27°C / 59-60%	Sep. 14, 2019~ Nov. 08, 2019
AC Conduction	CO01-CB	Rick Yeh	24~25°C / 45~46%	Oct. 17, 2019 ~ Nov. 11, 2019

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

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



2 Test Configuration of EUT

2.1 Test Channel Mode

RU(100%):

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	21
5200MHz	22
5240MHz	22
5745MHz	19.5
5785MHz	19.5
5825MHz	19.5
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	20
5200MHz	22
5240MHz	22
5745MHz	20.5
5785MHz	20.5
5825MHz	20.5
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	17.5
5230MHz	22
5755MHz	22
5795MHz	22
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	16.5
5775MHz	19
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	20
5200MHz	22
5240MHz	22
5745MHz	20.5
5785MHz	20.5
5825MHz	20.5
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	17.5
5230MHz	22
5755MHz	22
5795MHz	22
802.11ax HEW80_Nss1,(MCS0)_4TX	-



Mode	PowerSetting
5210MHz	16.5
5775MHz	19

**RU (20M: 66% / 40M: 60% / 80M: 48%):**

Mode	PowerSetting
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	18.5
5200MHz	20.5
5240MHz	20.5
5745MHz	19
5785MHz	18.5
5825MHz	18.5
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	15
5230MHz	19
5755MHz	19.5
5795MHz	19.5
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	14.5
5775MHz	17

RU (20M: 56% / 40M: 56% / 80M: 72%):

Mode	PowerSetting
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	17
5200MHz	19
5240MHz	19
5745MHz	17.5
5785MHz	17
5825MHz	17
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	15
5230MHz	19.5
5755MHz	19.5
5795MHz	19.5
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	15
5775MHz	18

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- ♦ There are two modes of EUT, one is beamforming mode, and the other is Non-beamforming mode for n/ac/ax in 5GHz, Only Non-beamforming mode was tested and recorded in this report.
- ♦ The power setting will be 3dB lower than non-beamforming for beamforming mode by manufacturer declaration.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	2.4GHz + Adapter
2	2.4GHz + PoE
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 ~ 5 will follow this same test mode.	
3	5GHz + Adapter
4	Bluetooth + Adapter
5	Zigbee + Adapter
For operating mode 1 is the worst case and it was record in this test report.	

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



The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	2.4GHz + Adapter
2	2.4GHz + PoE
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 ~ 5 will follow this same test mode.	
3	5GHz + PoE
4	Bluetooth + PoE
5	Zigbee + PoE
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth + Zigbee
Refer to Sporton Test Report No.: FA980216 for Co-location RF Exposure Evaluation.	

Note 1: The EUT can only be used at Y axis position.

Note 2: The PoE and Adapter below are for measurement only, would not be marketed.

Power	Brand	Model No.
Adapter	Ruckus	740-64277-001
PoE	Ruckus	740-64216-001

Note 3: The RU100 performed all test items, but the others RU performed the test item " Output Power and Power Spectral Density " only.

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Flash disk3.0	Transcend	JetFlash-700	N/A
B	LAN NB	DELL	E6430	N/A
C	Adapter	Ruckus	740-64277-001	N/A

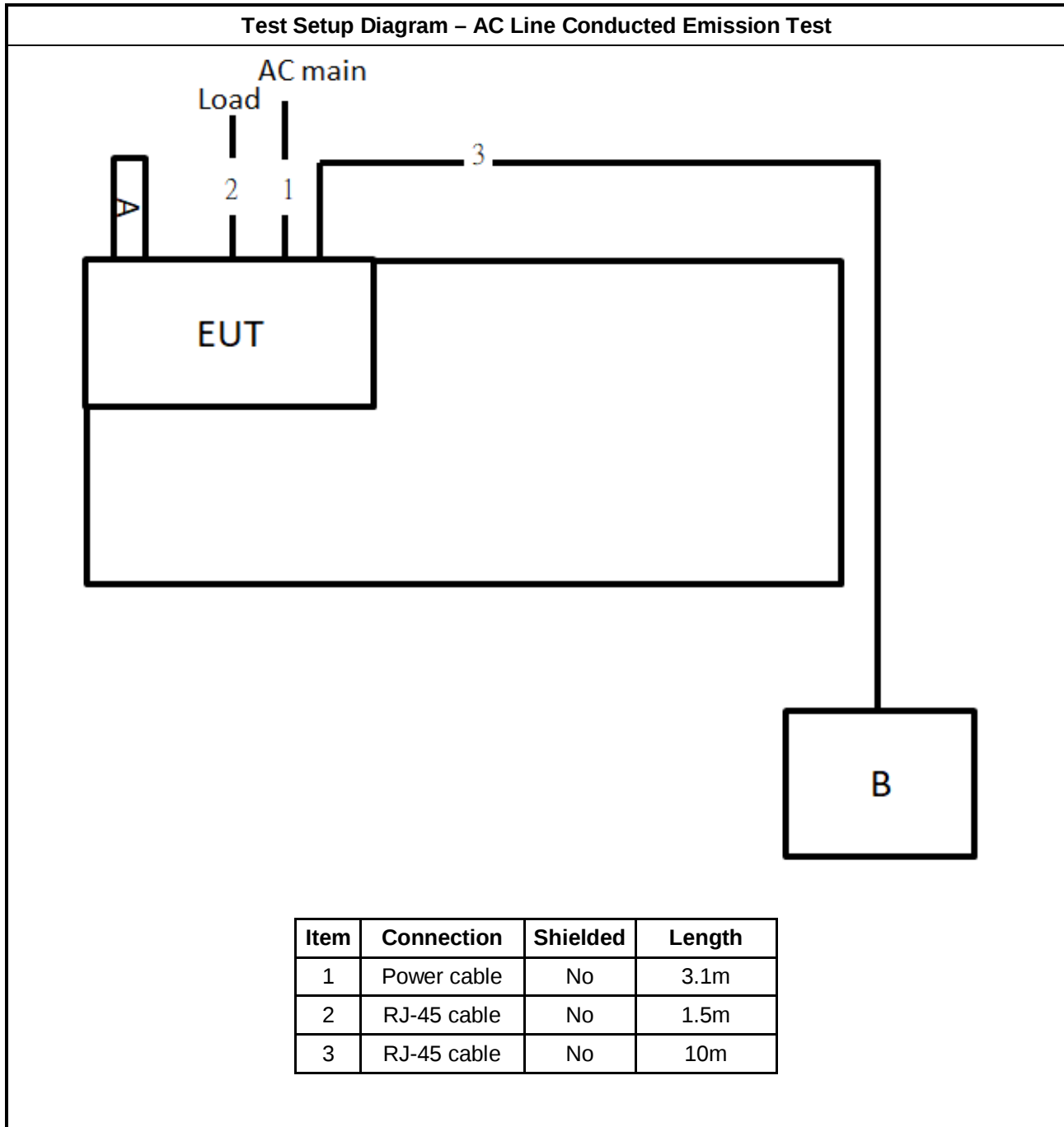
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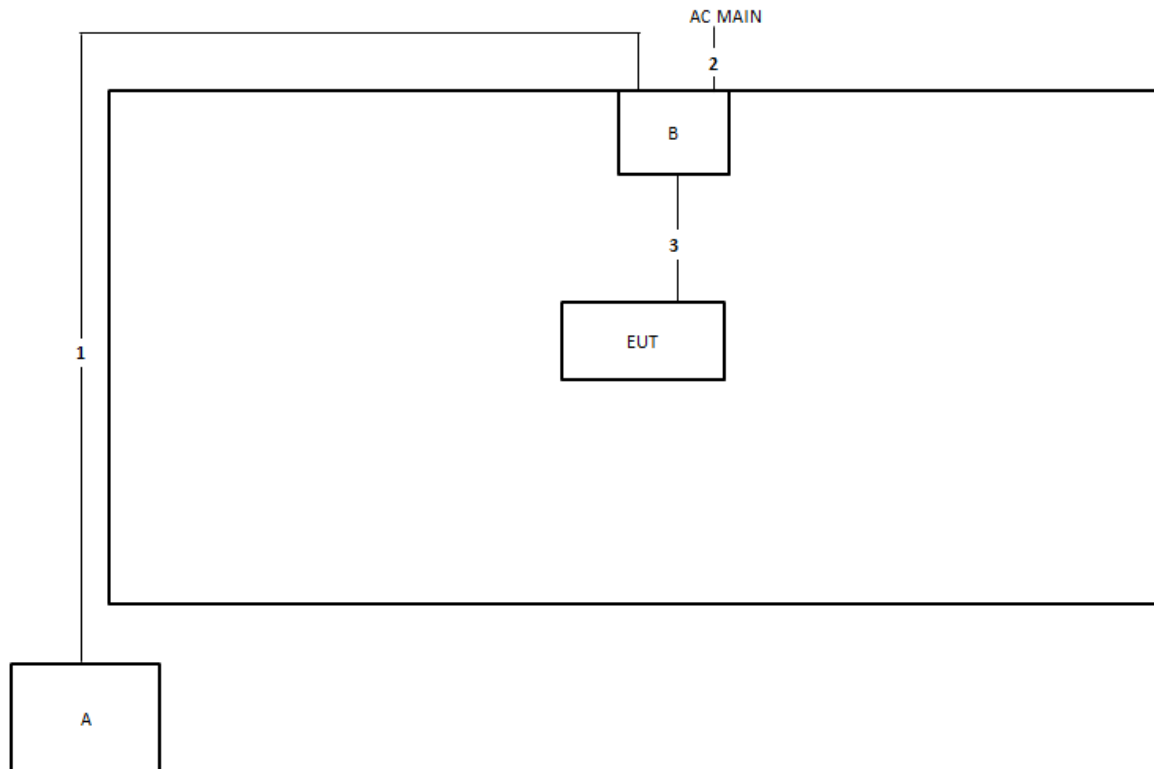
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE	Ruckus	740-64216-001	N/A

For RF Conducted:

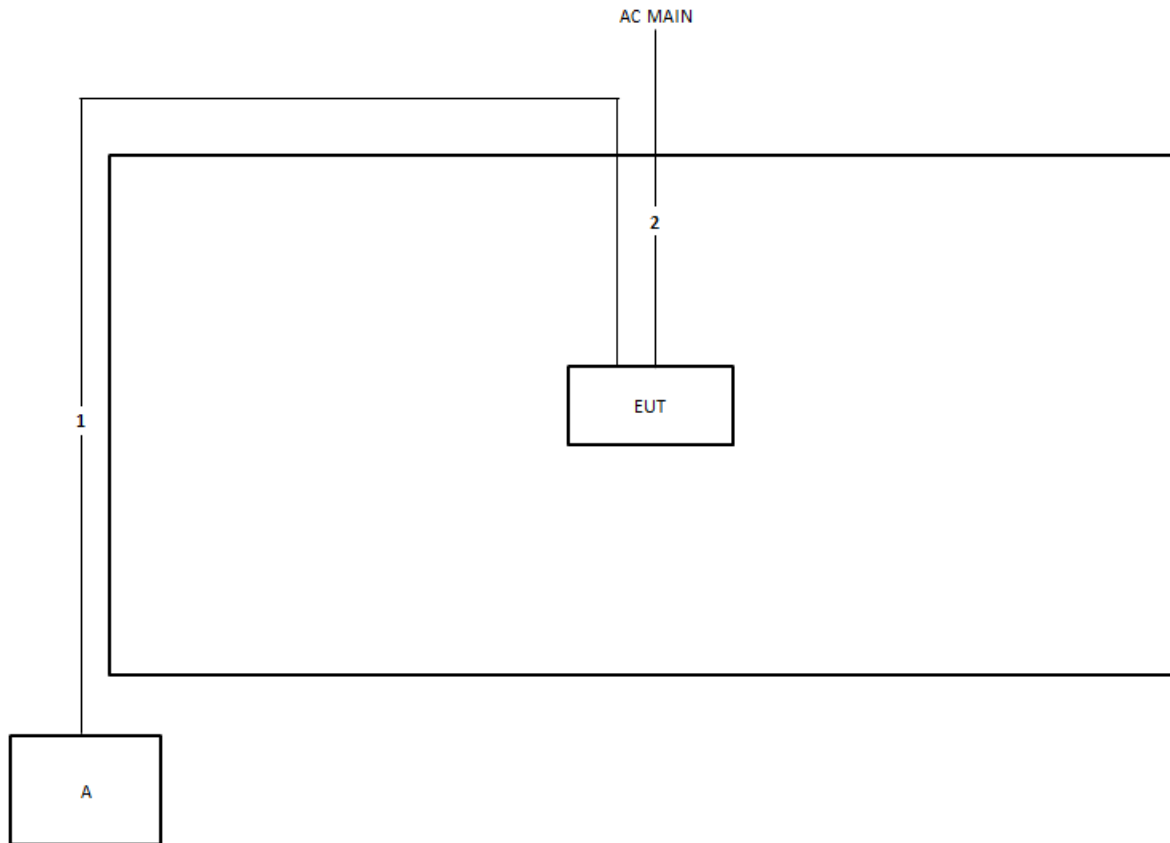
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Adapter	Ruckus	740-64277-001	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


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

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	3.1m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

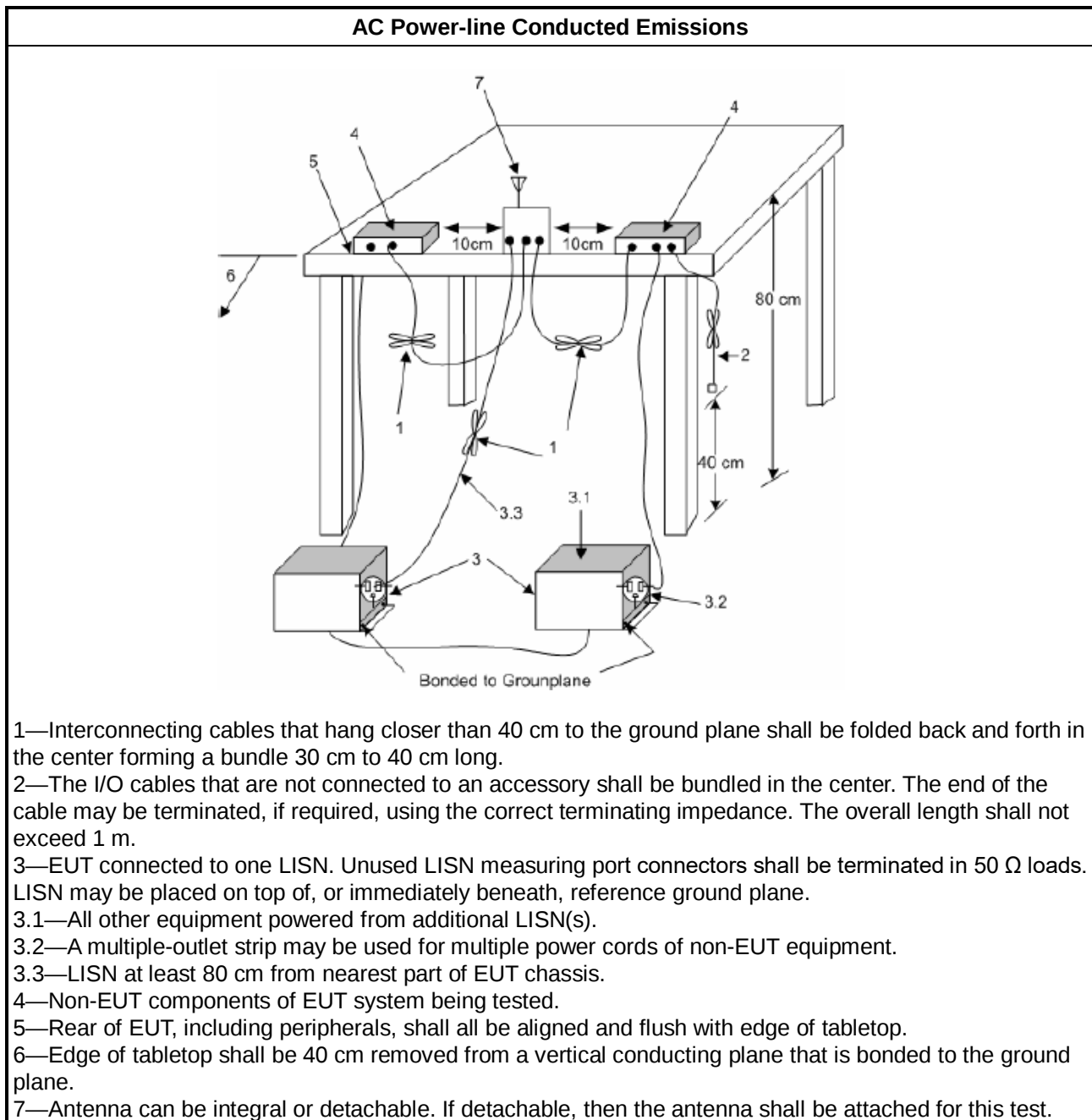
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

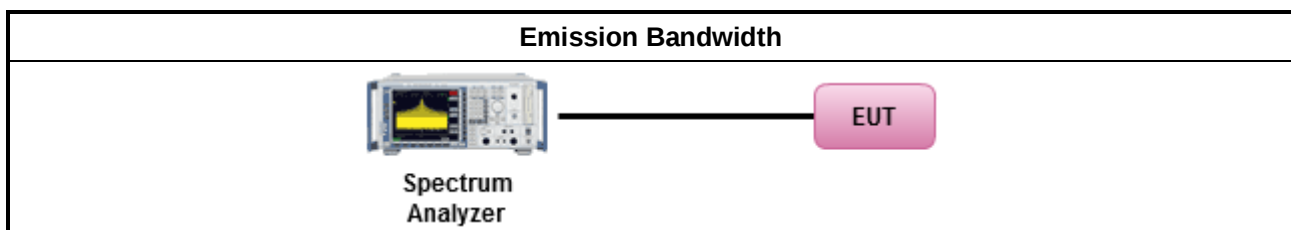
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

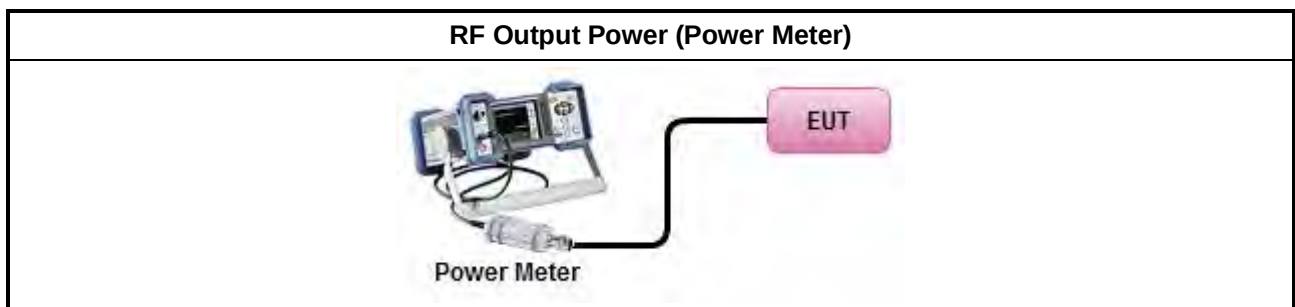
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

3.4.2 Measuring Instruments

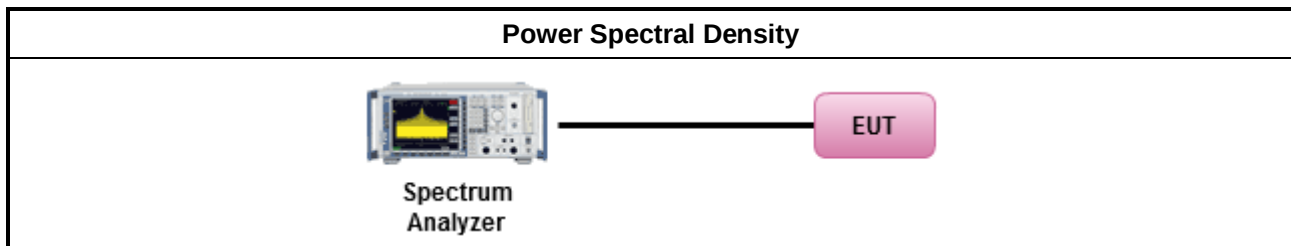
Refer a test equipment and calibration data table in this test report.



3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

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

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



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

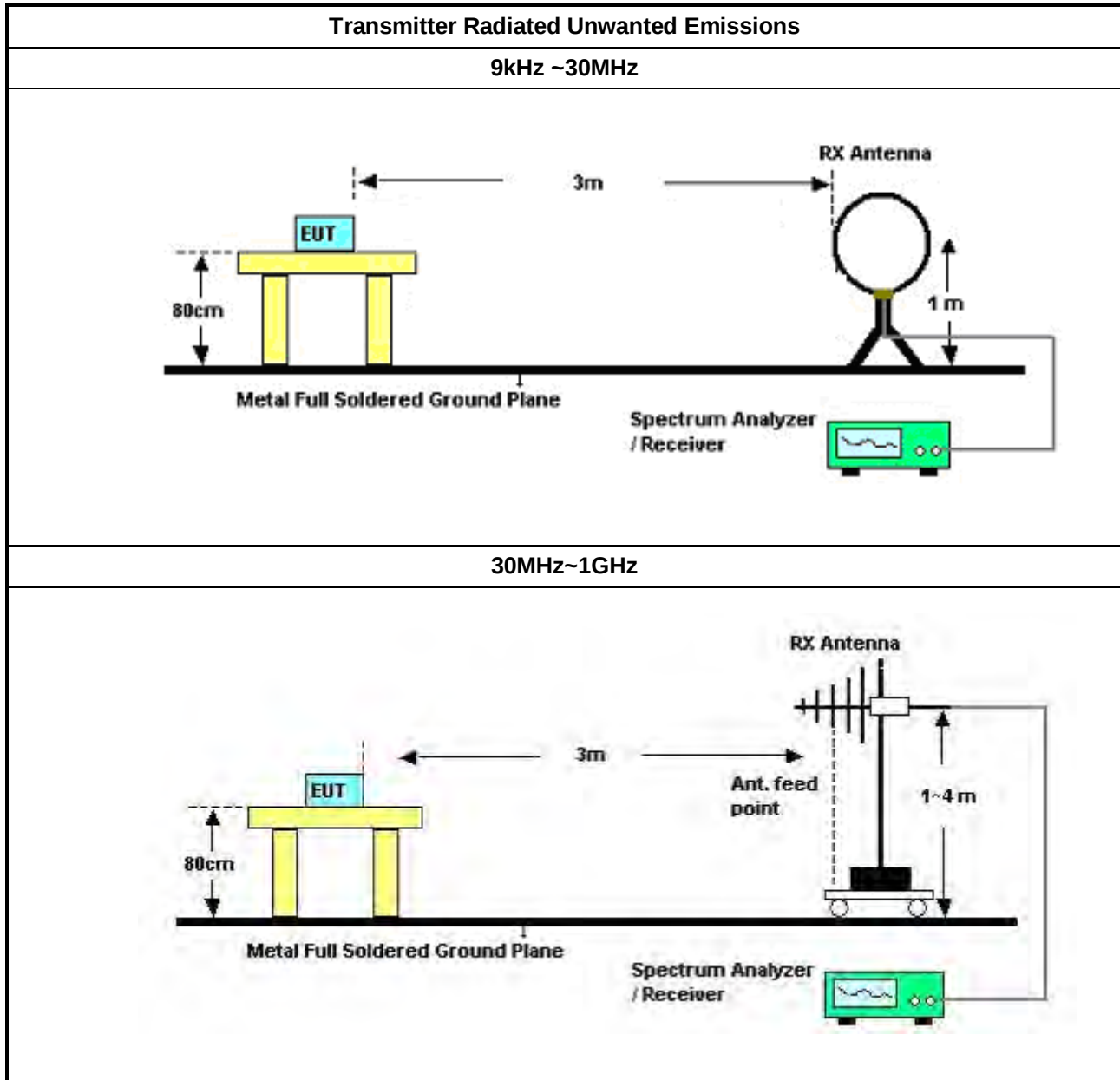
3.5.2 Measuring Instruments

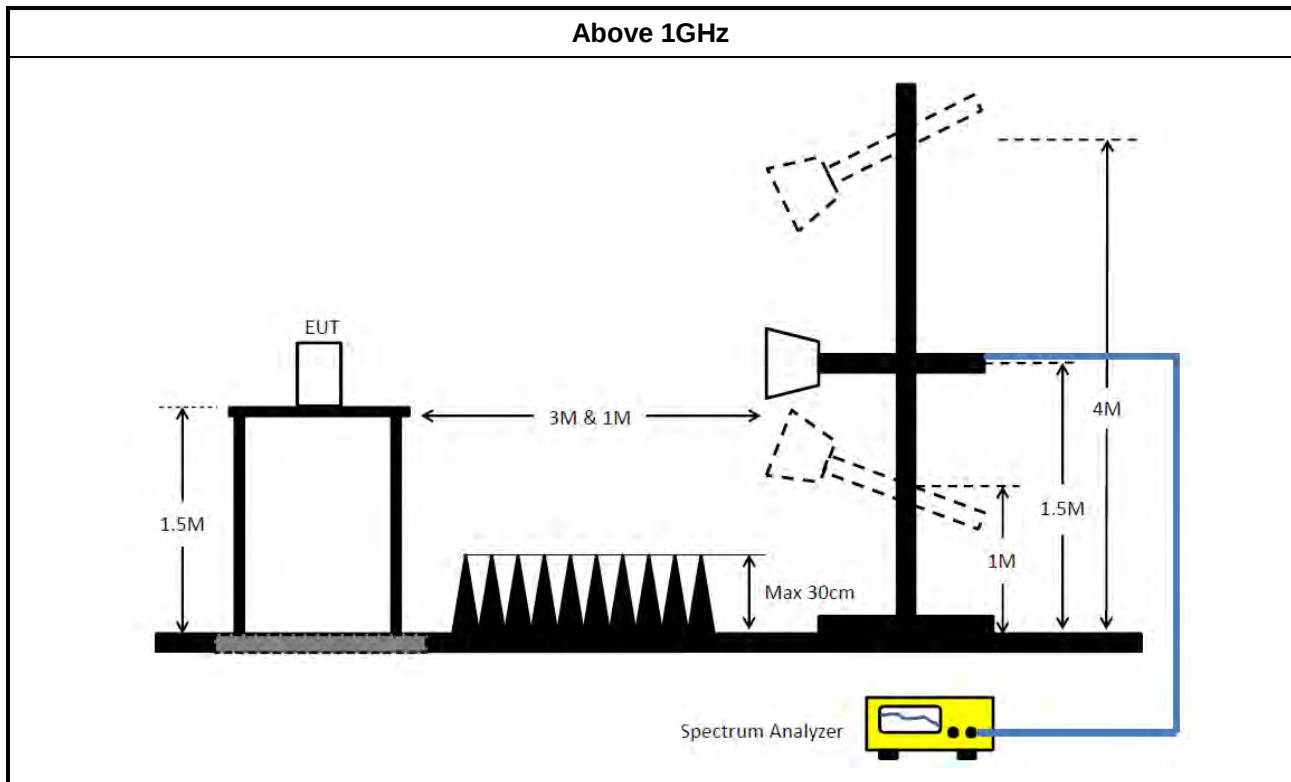
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.	
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

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

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 28, 2019	Jan. 29, 2020	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 24, 2018	Dec. 23, 2019	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Jan. 11, 2019	Jan. 10, 2020	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Bilog Antenna with 6dB Attenuator	TESE & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 28, 2019	Mar. 27, 2020	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 02, 2019	May 01, 2020	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 04, 2019	Nov. 03, 2020	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2019	Jan. 07, 2020	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Jan. 31, 2019	Jan. 30, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)



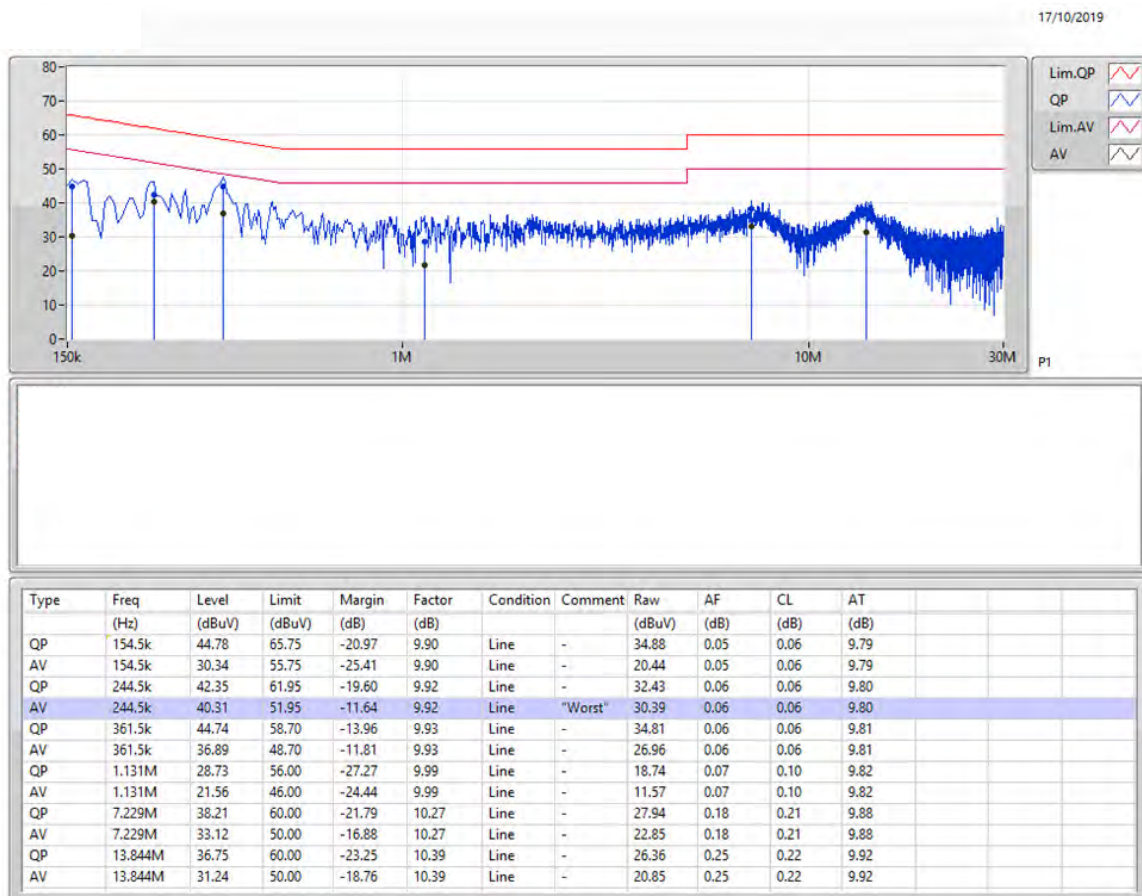
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz ~26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)

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

NCR means Non-Calibration required.

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	CTX		

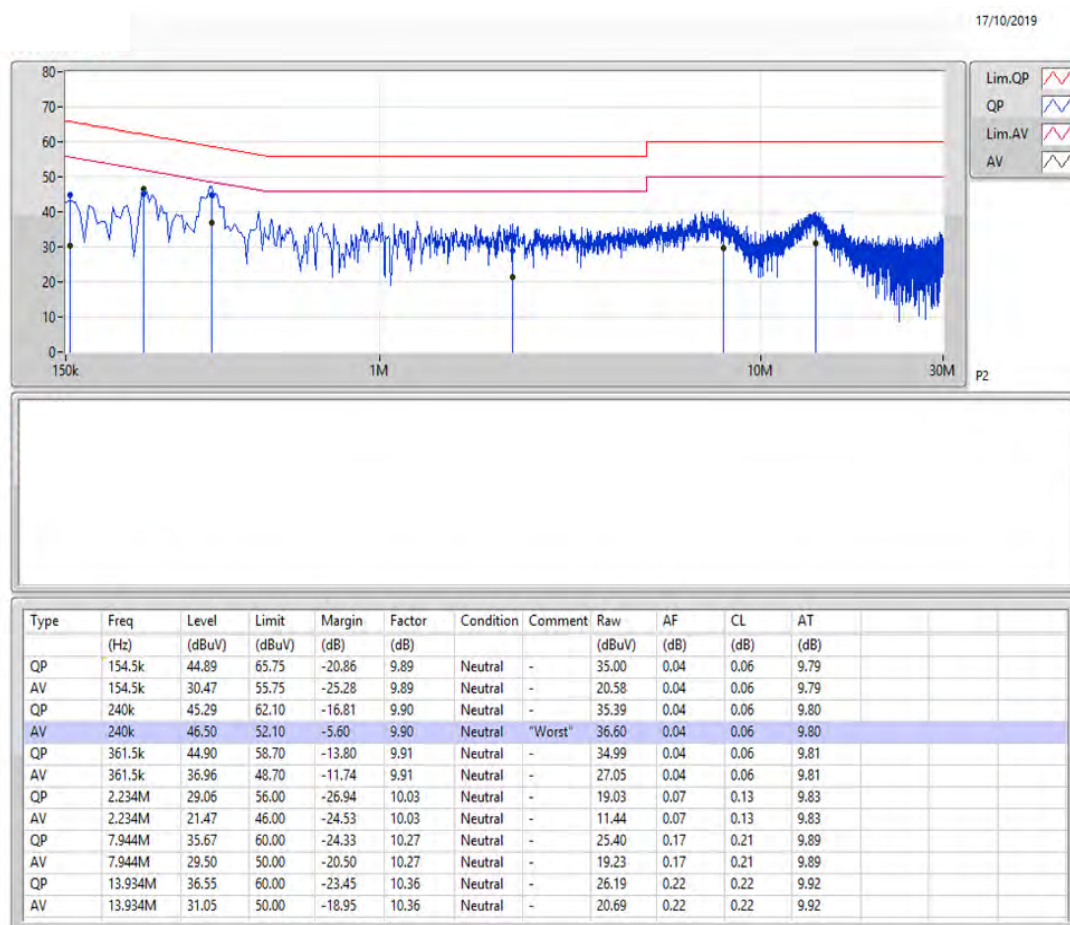


Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	CTX		



Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	26.175M	16.525M	16M5D1D	19.425M	16.417M
802.11ac VHT20_Nss1,(MCS0)_4TX	26.95M	17.716M	17M7D1D	20.8M	17.598M
802.11ac VHT40_Nss1,(MCS0)_4TX	69.2M	36.382M	36M4D1D	39.55M	36.079M
802.11ac VHT80_Nss1,(MCS0)_4TX	81.7M	75.563M	75M6D1D	81.1M	75.299M
802.11ax HEW20_Nss1,(MCS0)_4TX	29.025M	19.015M	19M0D1D	21.5M	18.869M
802.11ax HEW40_Nss1,(MCS0)_4TX	64.2M	37.952M	38M0D1D	40.65M	37.656M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.2M	77.277M	77M3D1D	81.9M	76.9M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.325M	16.461M	16M5D1D	15.75M	16.37M
802.11ac VHT20_Nss1,(MCS0)_4TX	17.575M	17.67M	17M7D1D	16.85M	17.603M
802.11ac VHT40_Nss1,(MCS0)_4TX	36.45M	36.427M	36M4D1D	34.85M	36.224M
802.11ac VHT80_Nss1,(MCS0)_4TX	76.2M	75.464M	75M5D1D	74.8M	75.232M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.875M	18.993M	19M0D1D	18.375M	18.892M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.95M	38.08M	38M1D1D	37.1M	37.808M
802.11ax HEW80_Nss1,(MCS0)_4TX	76.9M	77.186M	77M2D1D	71.1M	76.968M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.425M	16.475M	19.9M	16.475M	20.6M	16.525M	20.375M	16.475M
5200MHz	Pass	Inf	24.45M	16.517M	23.75M	16.417M	26.175M	16.492M	24.25M	16.517M
5240MHz	Pass	Inf	24.125M	16.467M	22.825M	16.467M	25.275M	16.467M	25.45M	16.492M
5745MHz	Pass	500k	16.05M	16.439M	16.325M	16.398M	16.3M	16.424M	16.3M	16.405M
5785MHz	Pass	500k	16.275M	16.396M	15.925M	16.432M	16.025M	16.393M	16.05M	16.436M
5825MHz	Pass	500k	16.3M	16.418M	16.05M	16.37M	15.75M	16.424M	15.925M	16.461M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.225M	17.612M	20.8M	17.619M	21.825M	17.598M	20.825M	17.618M
5200MHz	Pass	Inf	23.575M	17.691M	23.425M	17.641M	26.95M	17.691M	25.7M	17.716M
5240MHz	Pass	Inf	26.875M	17.666M	25.5M	17.666M	26.875M	17.691M	24.95M	17.691M
5745MHz	Pass	500k	16.975M	17.63M	17.575M	17.618M	17.375M	17.623M	17.525M	17.621M
5785MHz	Pass	500k	17.525M	17.631M	17.55M	17.619M	17.125M	17.603M	17.525M	17.651M
5825MHz	Pass	500k	16.85M	17.67M	17.525M	17.669M	17.4M	17.626M	16.975M	17.655M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.55M	36.135M	40.05M	36.166M	40M	36.079M	39.65M	36.124M
5230MHz	Pass	Inf	45.55M	36.202M	43.05M	36.193M	69.2M	36.382M	45.3M	36.263M
5755MHz	Pass	500k	36.25M	36.335M	35.6M	36.242M	36M	36.38M	36.15M	36.404M
5795MHz	Pass	500k	36.1M	36.375M	36.15M	36.224M	34.85M	36.324M	36.45M	36.427M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.7M	75.299M	81.1M	75.381M	81.6M	75.563M	81.1M	75.466M
5775MHz	Pass	500k	76.2M	75.232M	75.5M	75.464M	74.8M	75.436M	76M	75.418M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.5M	18.886M	21.5M	18.916M	21.7M	18.869M	21.55M	18.897M
5200MHz	Pass	Inf	26.1M	19.015M	26.175M	19.015M	27.65M	19.015M	24.575M	18.966M
5240MHz	Pass	Inf	25.775M	18.991M	26.775M	18.966M	29.025M	18.966M	27.25M	18.966M
5745MHz	Pass	500k	18.75M	18.932M	18.65M	18.929M	18.8M	18.936M	18.75M	18.937M
5785MHz	Pass	500k	18.375M	18.937M	18.725M	18.903M	18.875M	18.939M	18.85M	18.892M
5825MHz	Pass	500k	18.575M	18.955M	18.85M	18.993M	18.825M	18.967M	18.475M	18.969M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.8M	37.681M	40.95M	37.656M	40.7M	37.674M	40.65M	37.732M
5230MHz	Pass	Inf	48.8M	37.821M	49.1M	37.785M	64.2M	37.947M	59.3M	37.952M
5755MHz	Pass	500k	37.7M	37.948M	37.4M	37.809M	37.95M	37.937M	37.1M	38.075M
5795MHz	Pass	500k	37.85M	38.074M	37.2M	37.808M	37.85M	37.946M	37.7M	38.08M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82M	77.129M	82.2M	77.198M	82.1M	76.9M	81.9M	77.277M
5775MHz	Pass	500k	76.9M	77.186M	71.1M	77.079M	75.6M	77.087M	75M	76.968M

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

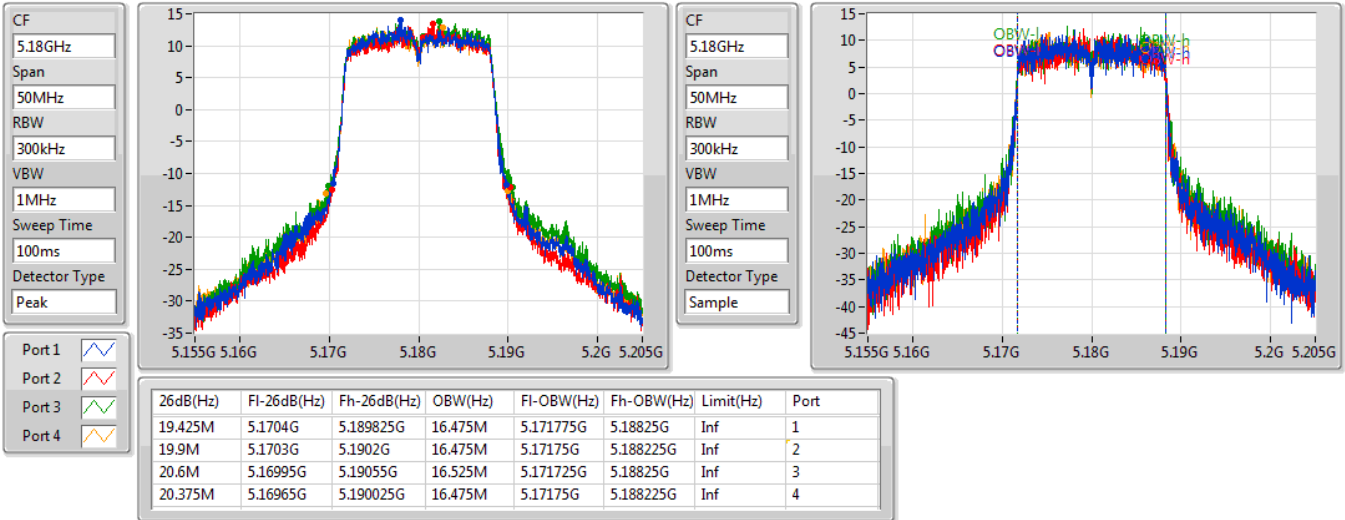
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

17/09/2019

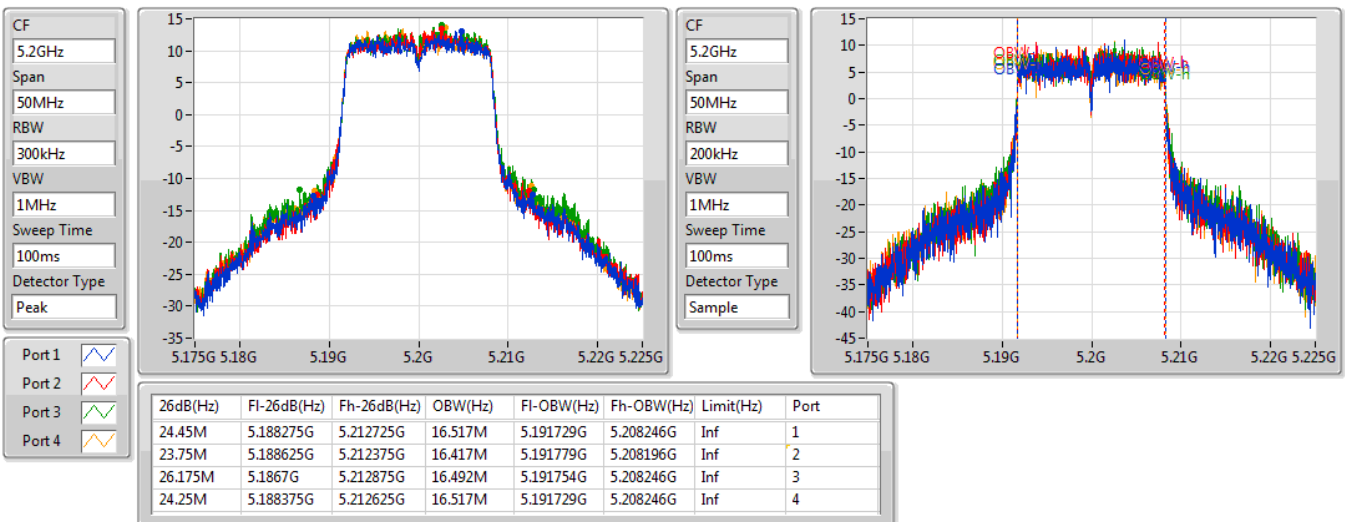


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

19/09/2019

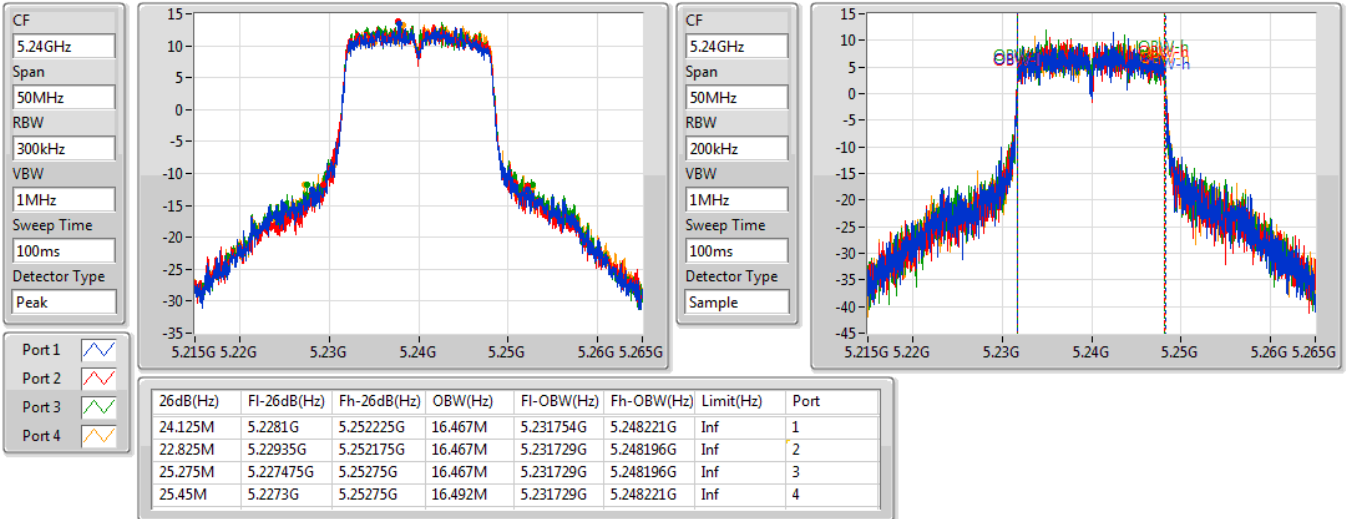


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

19/09/2019

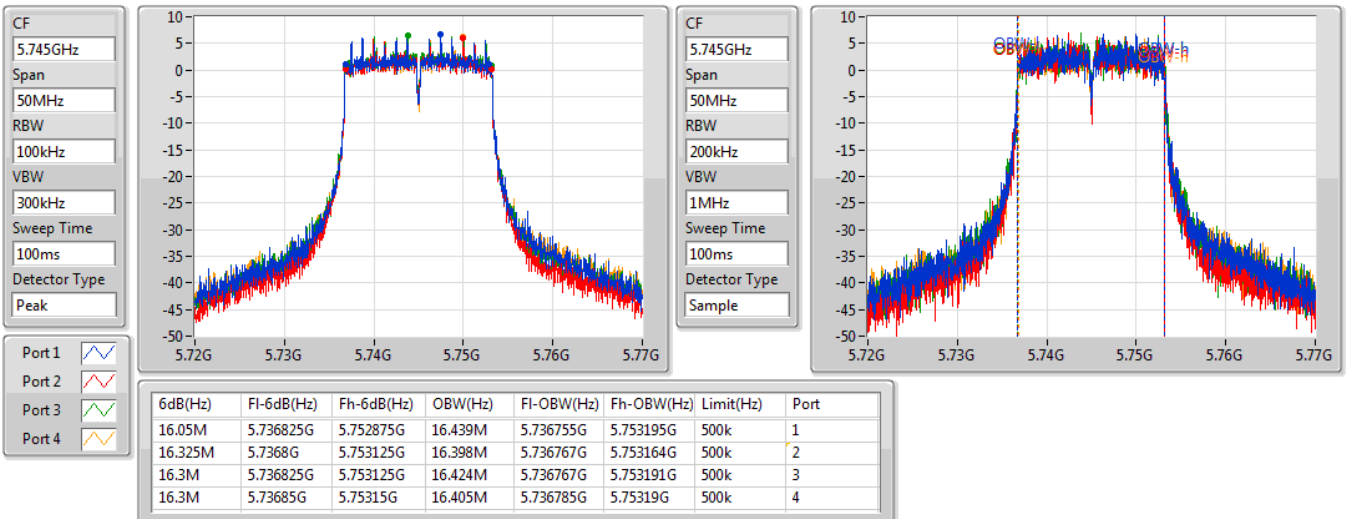


802.11a_Nss1,(6Mbps)_4TX

EBW

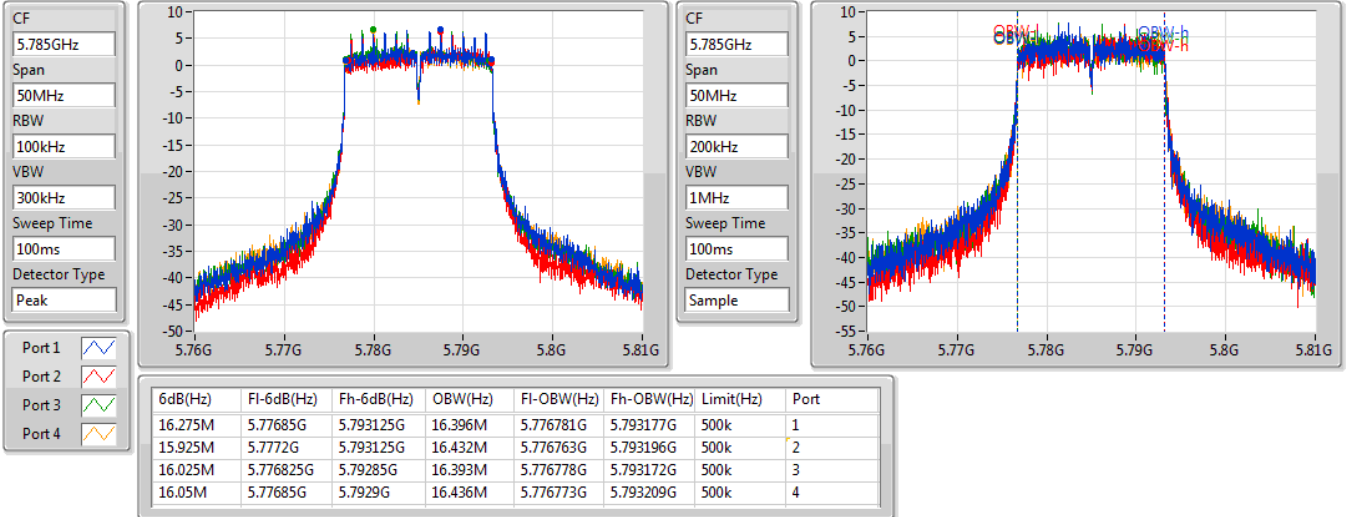
5745MHz

17/09/2019

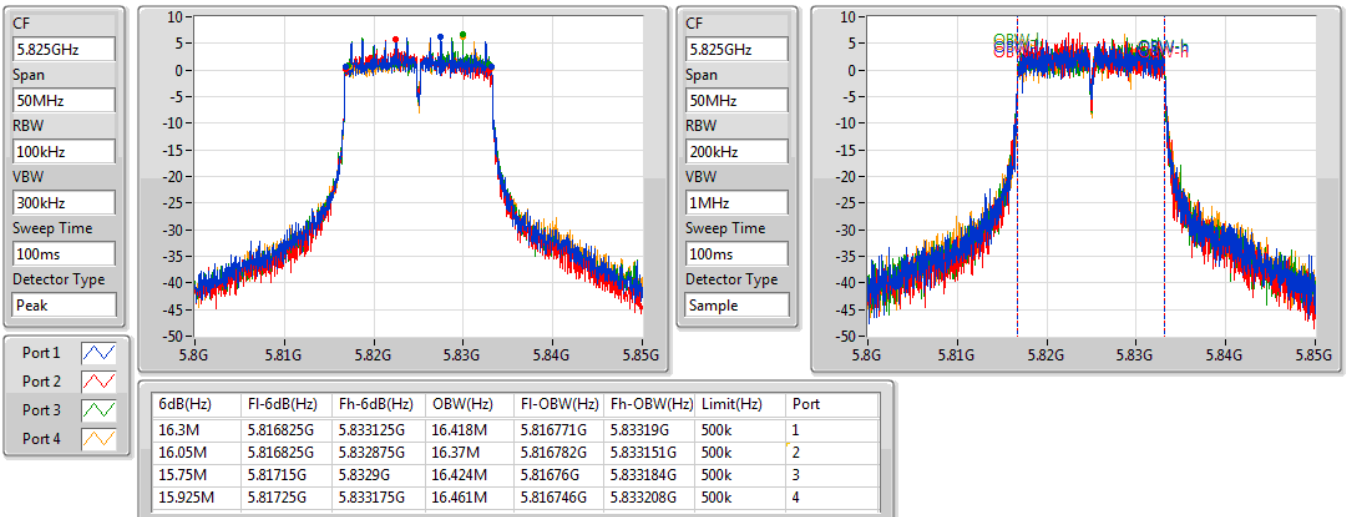


802.11a_Nss1,(6Mbps)_4TX
EBW
5785MHz

17/09/2019

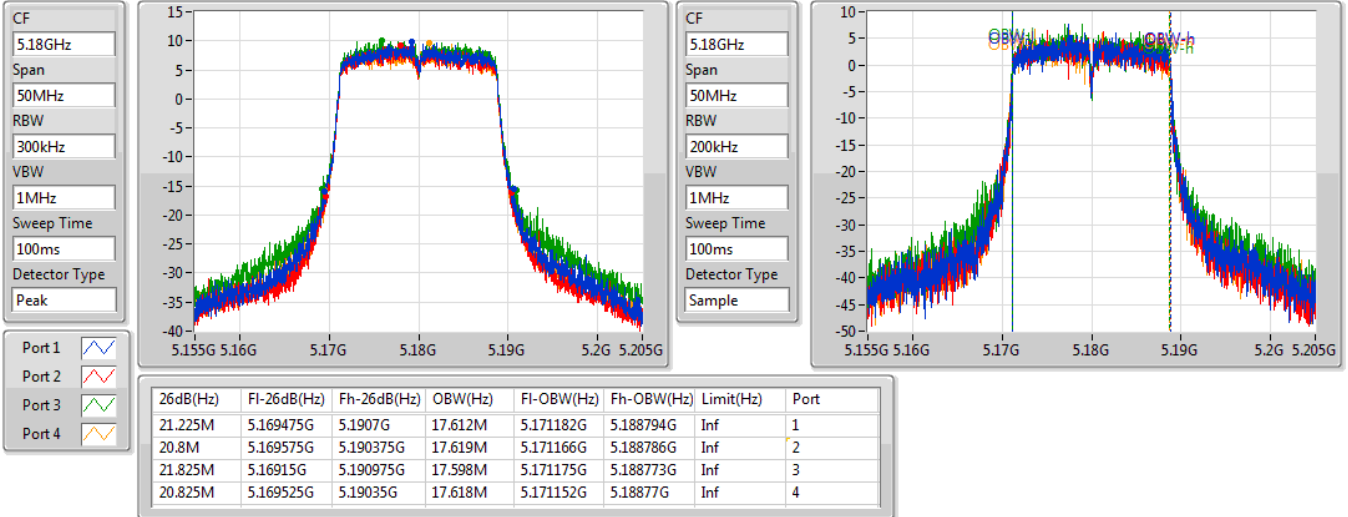

802.11a_Nss1,(6Mbps)_4TX
EBW
5825MHz

17/09/2019

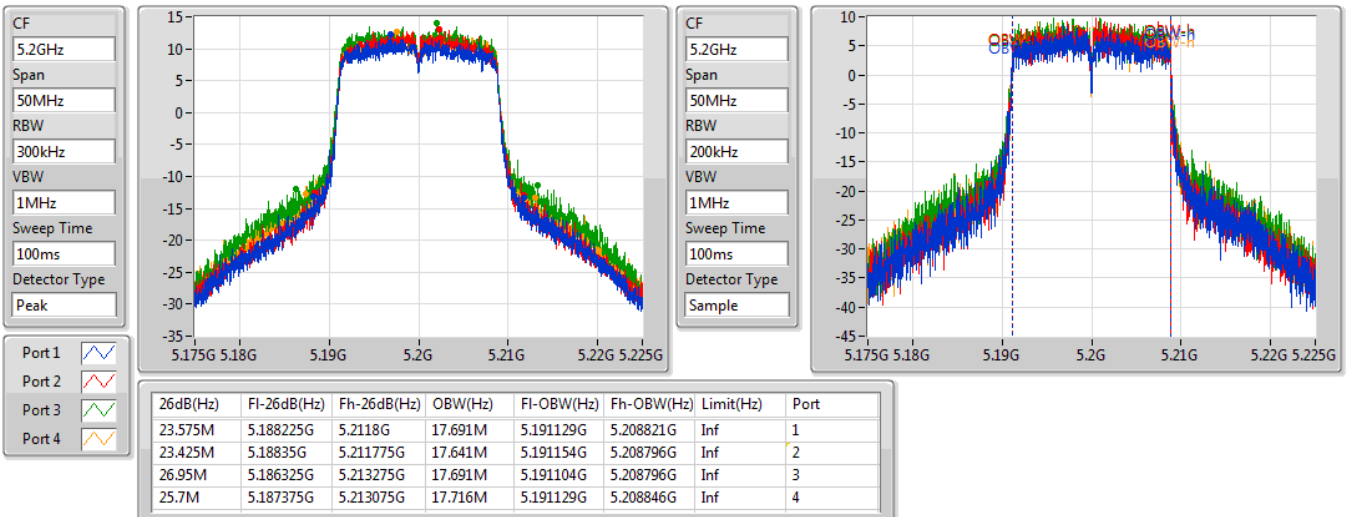


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5180MHz

17/09/2019

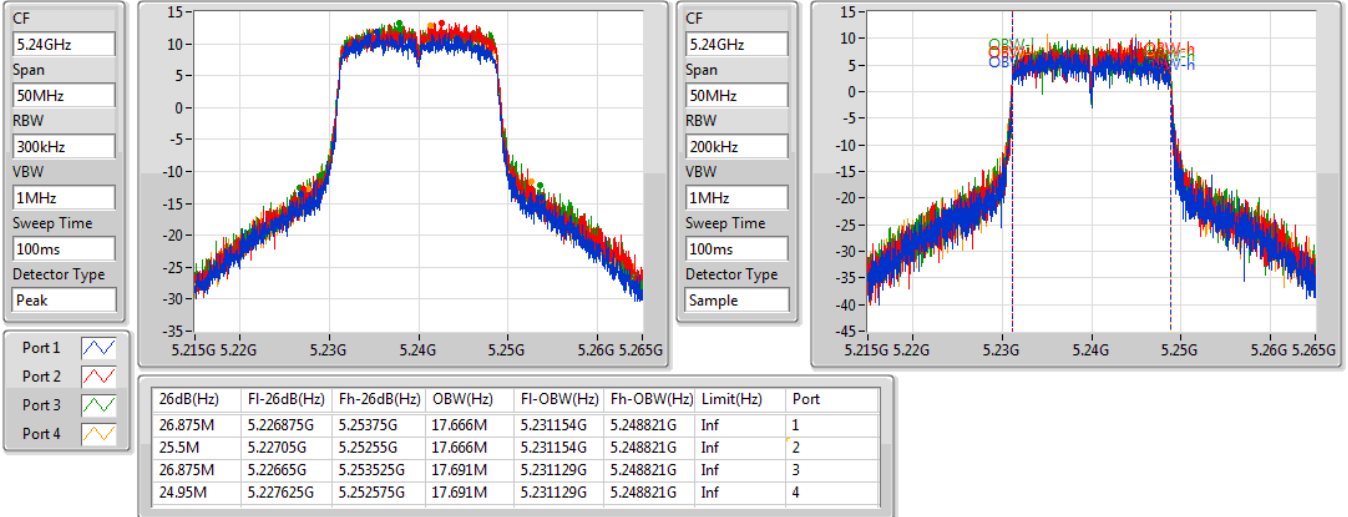

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5200MHz

19/09/2019

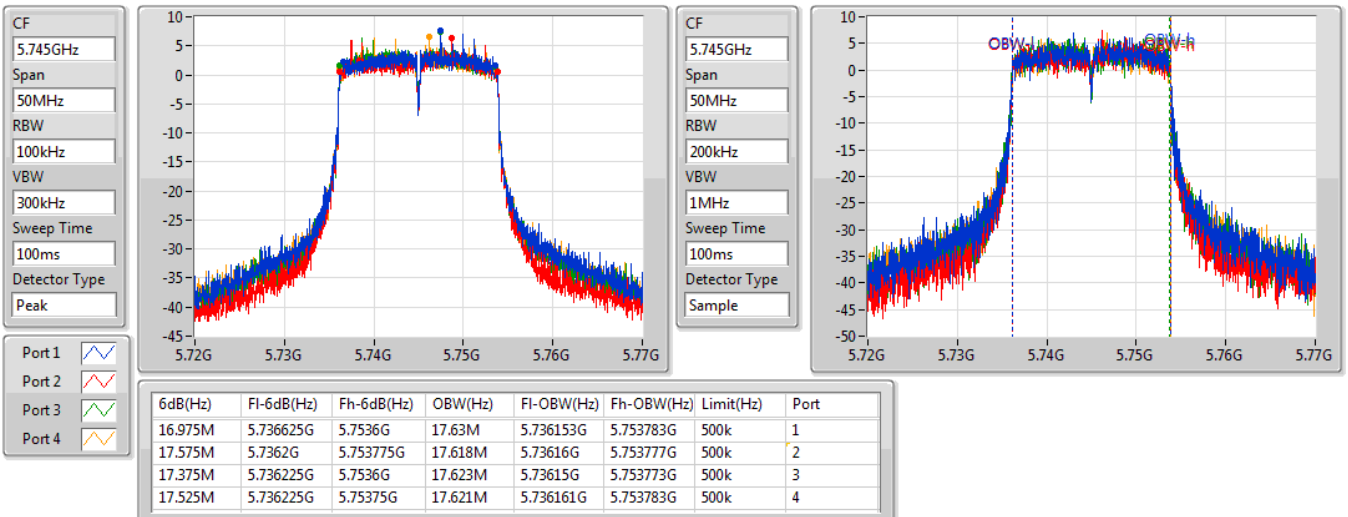


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5240MHz

19/09/2019

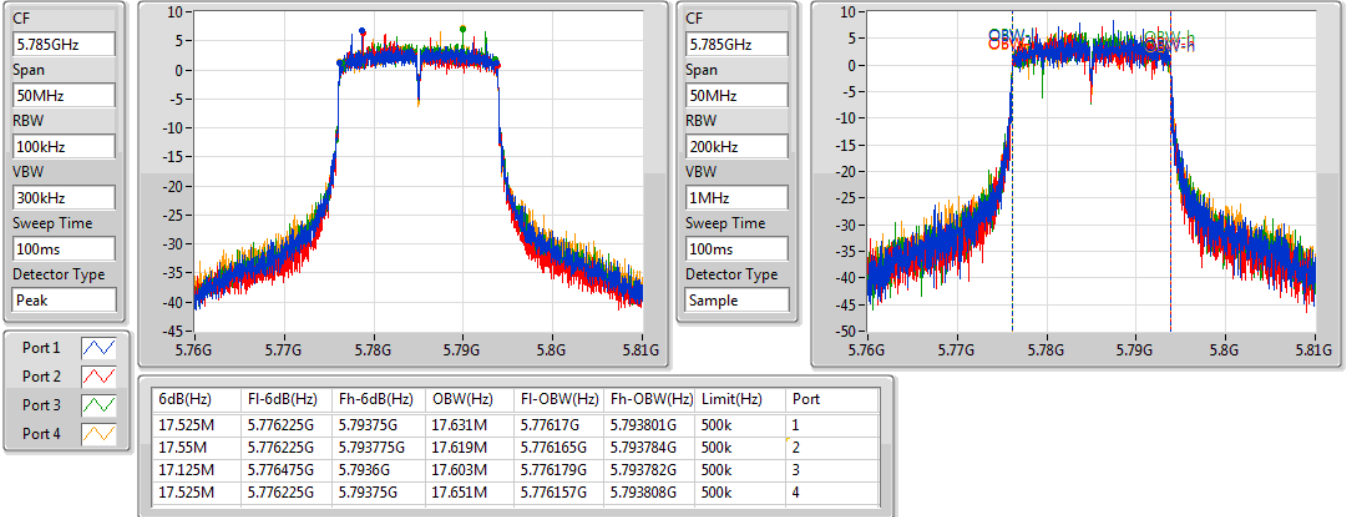

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5745MHz

17/09/2019

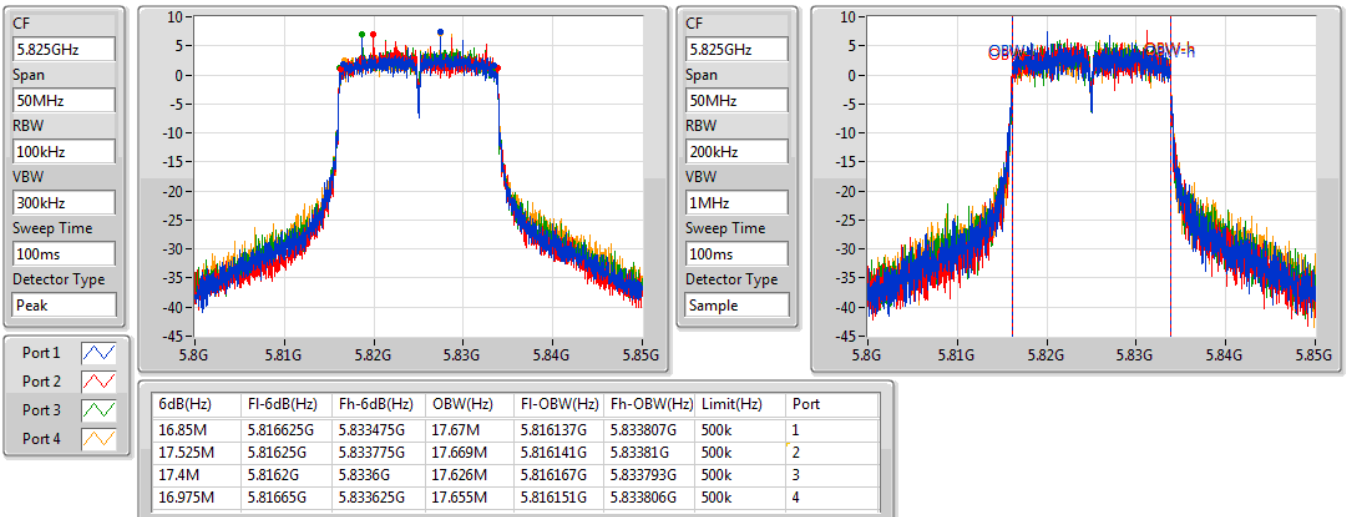


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5785MHz

17/09/2019

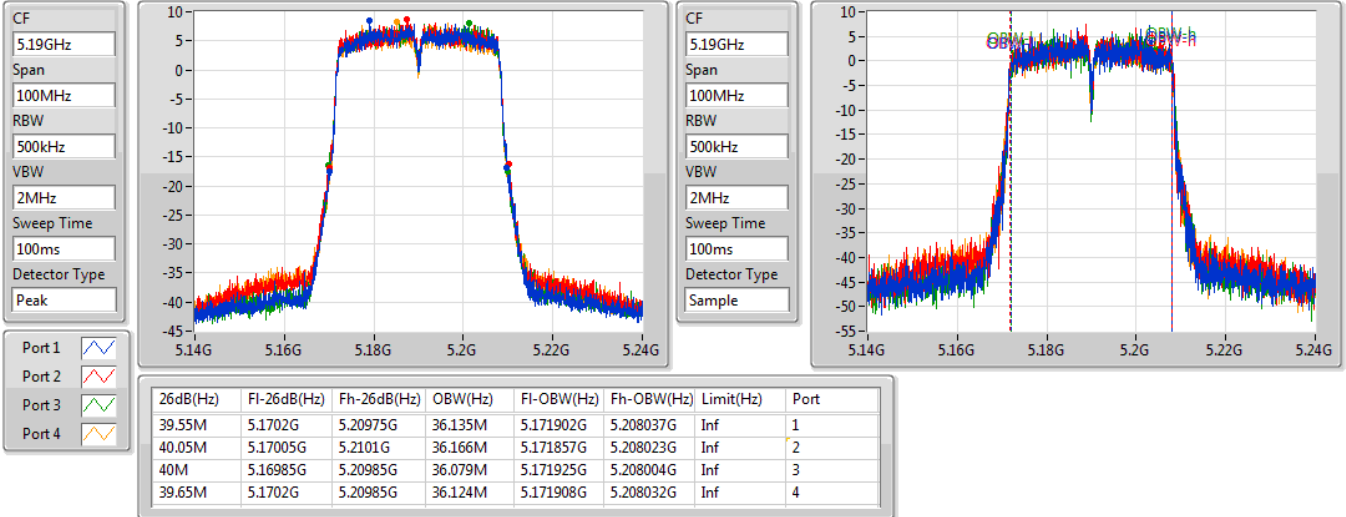

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5825MHz

17/09/2019

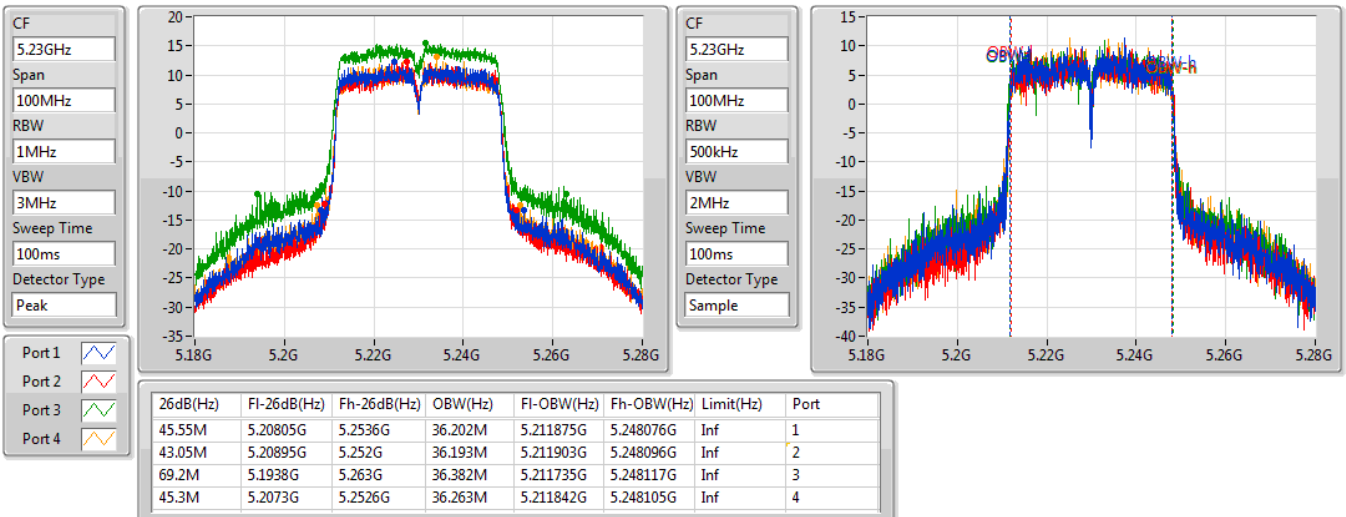


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5190MHz

17/09/2019

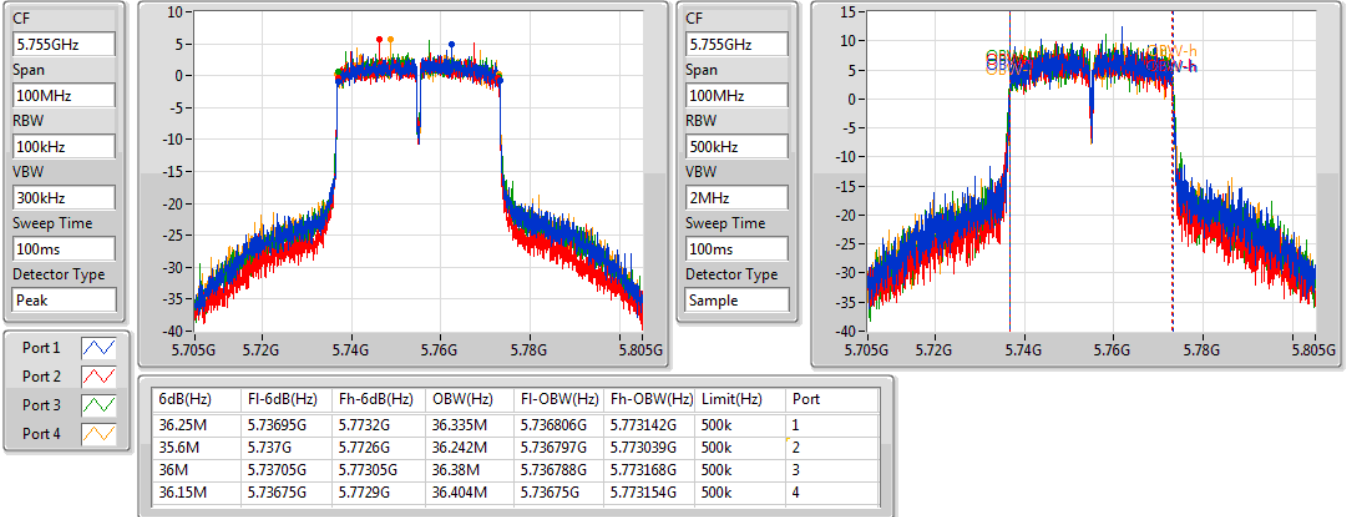

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5230MHz

17/09/2019

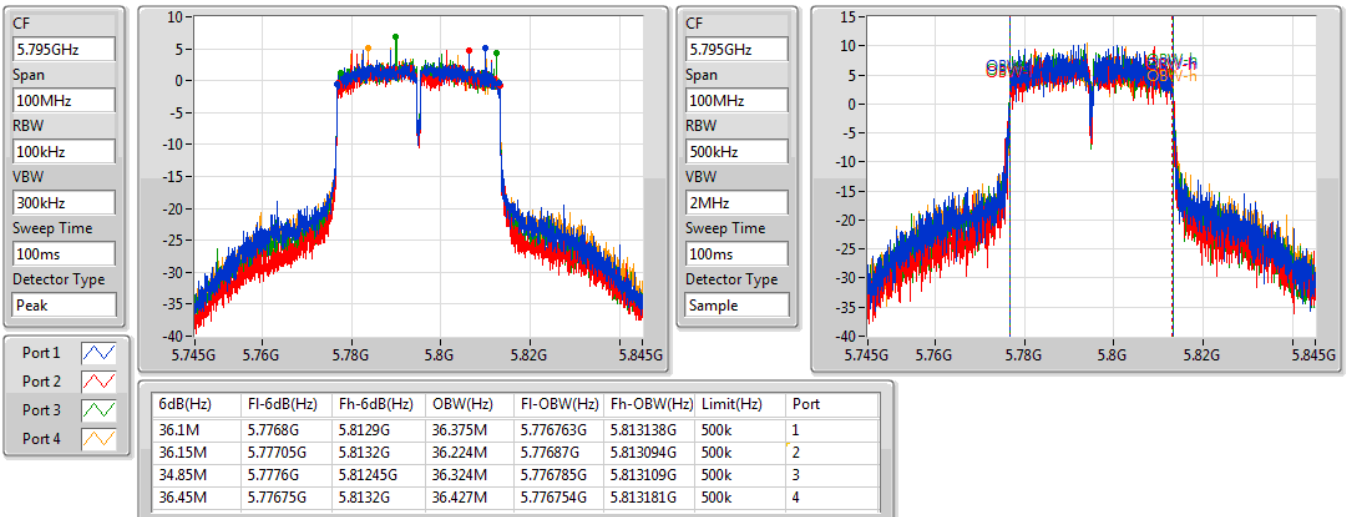


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5755MHz

17/09/2019

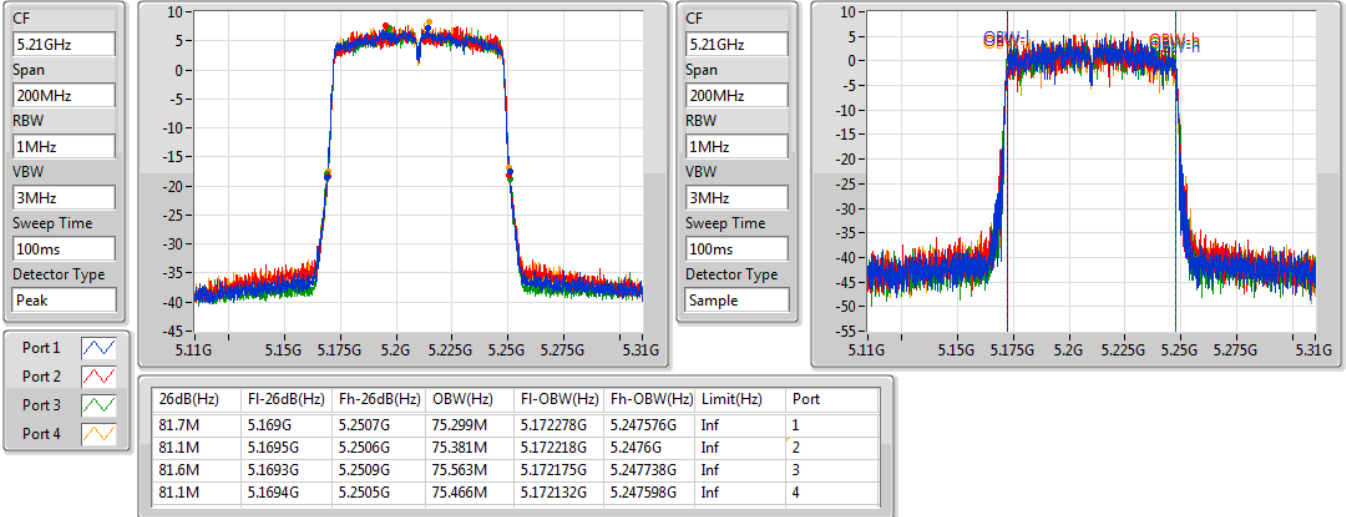

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5795MHz

17/09/2019

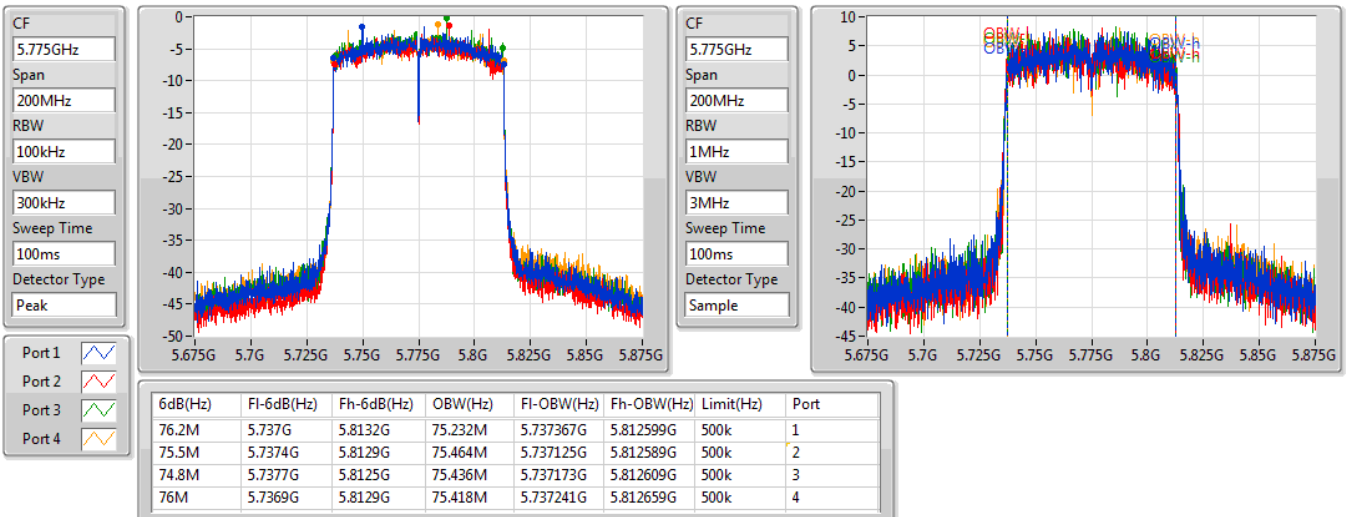


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5210MHz

17/09/2019

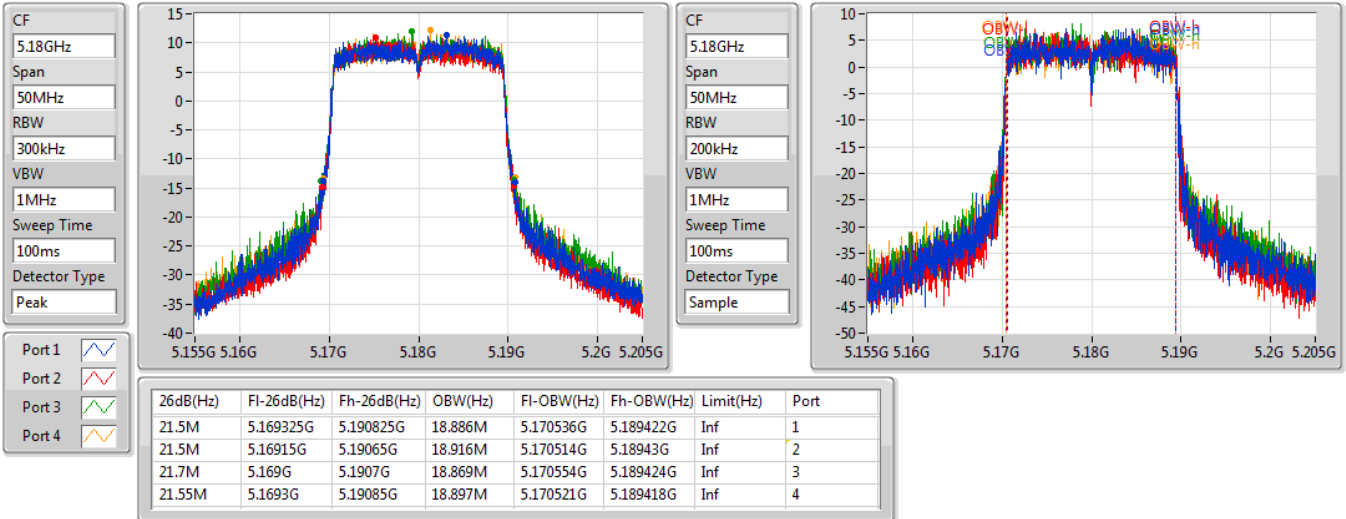

802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5775MHz

17/09/2019

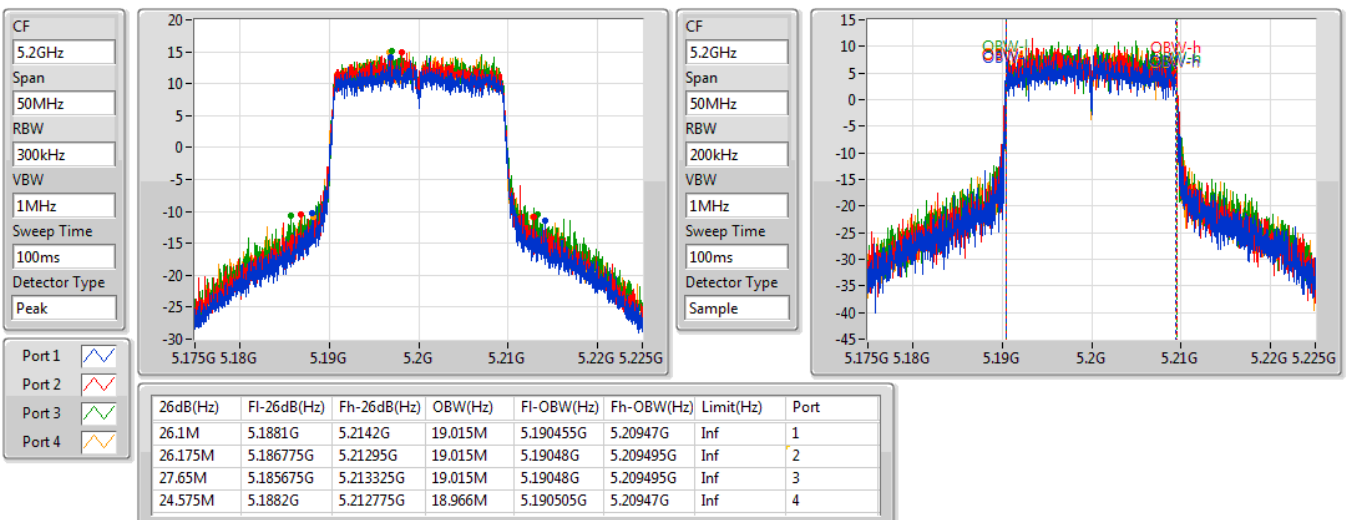


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5180MHz

17/09/2019


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5200MHz

19/09/2019

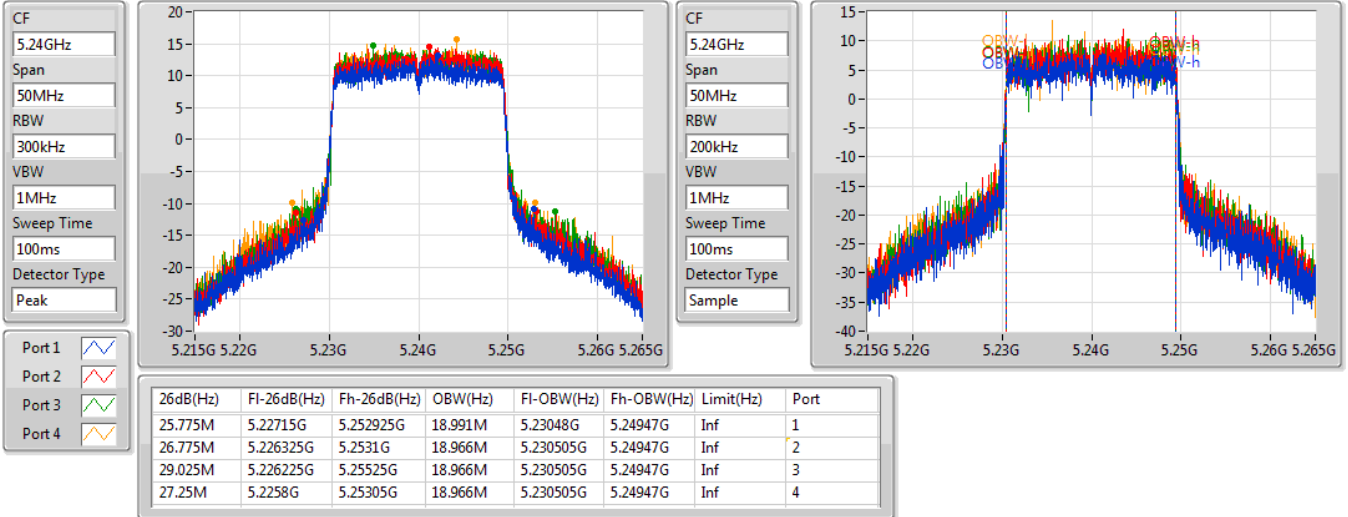


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

19/09/2019

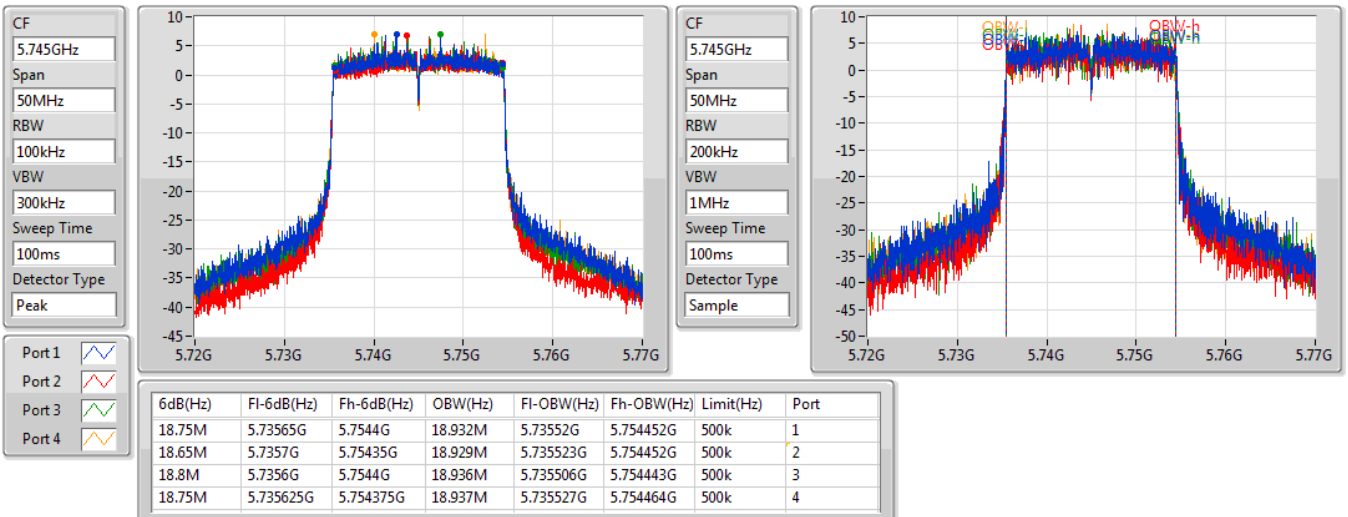


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

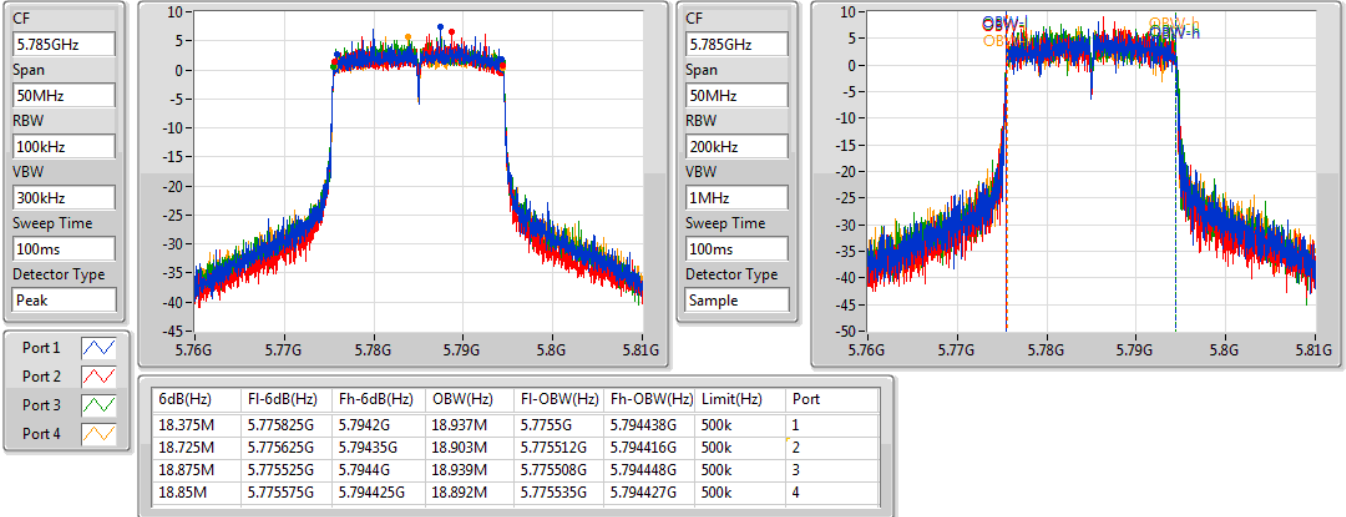
5745MHz

17/09/2019

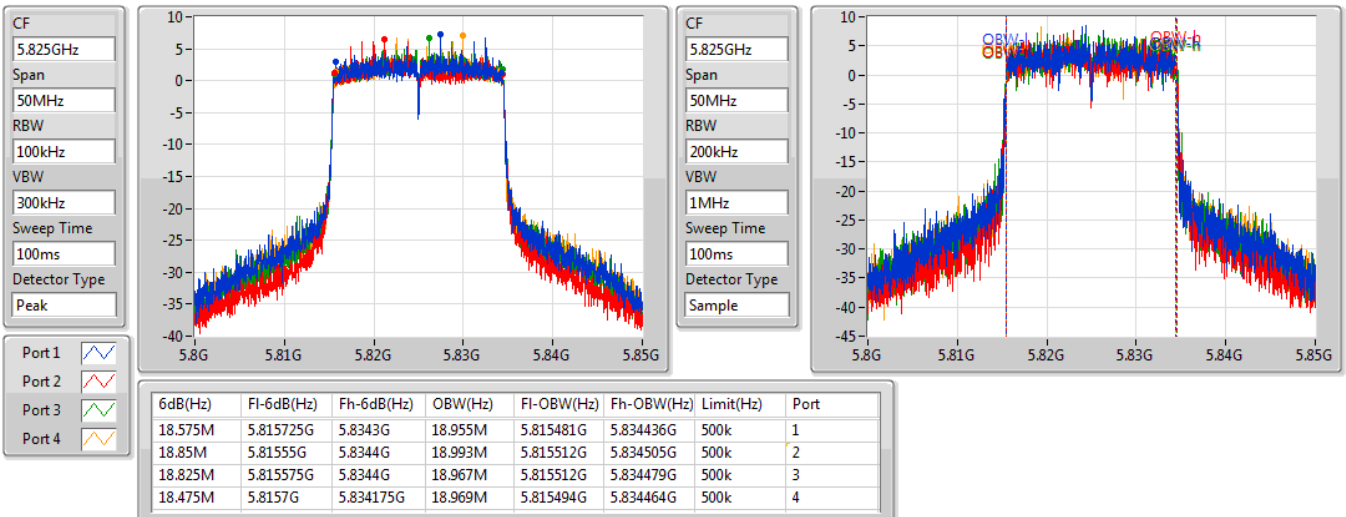


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5785MHz

17/09/2019

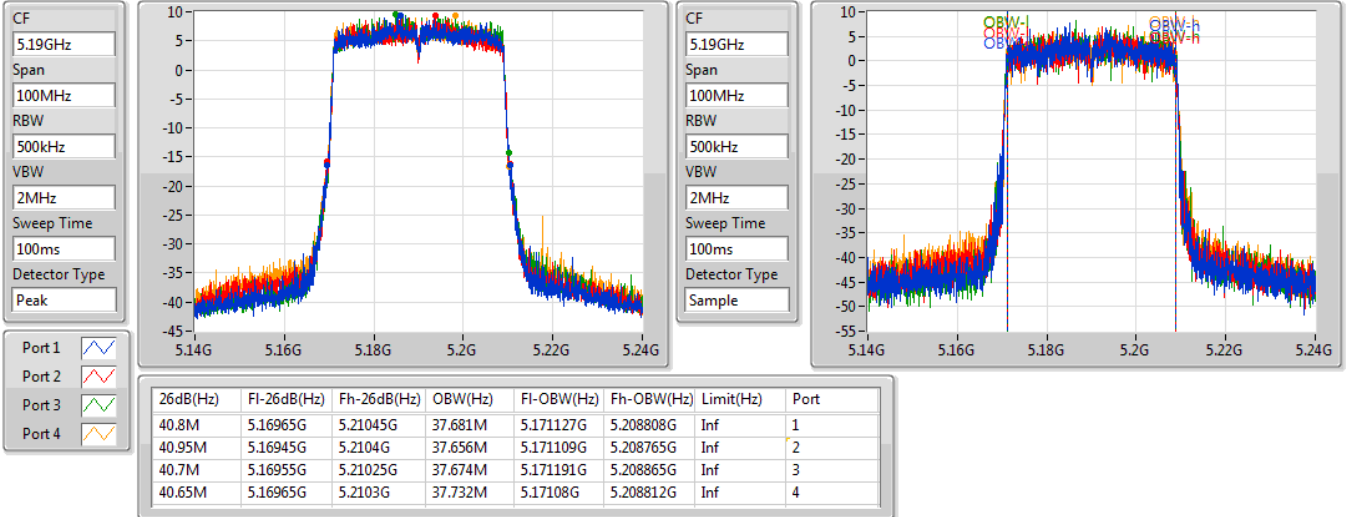

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5825MHz

17/09/2019

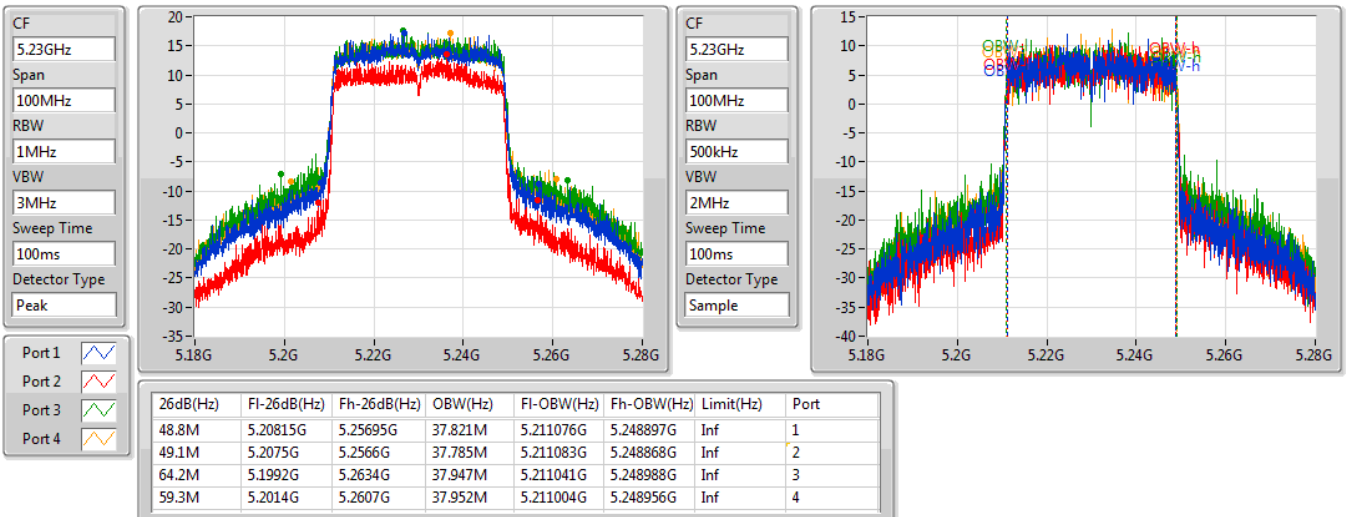


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5190MHz

17/09/2019

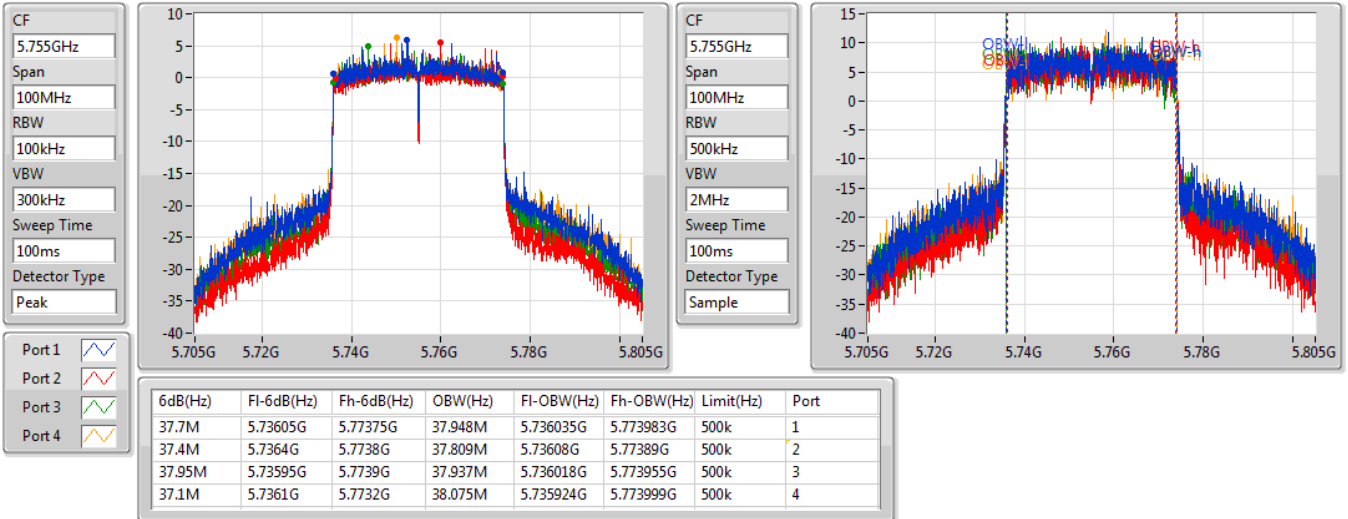

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5230MHz

17/09/2019

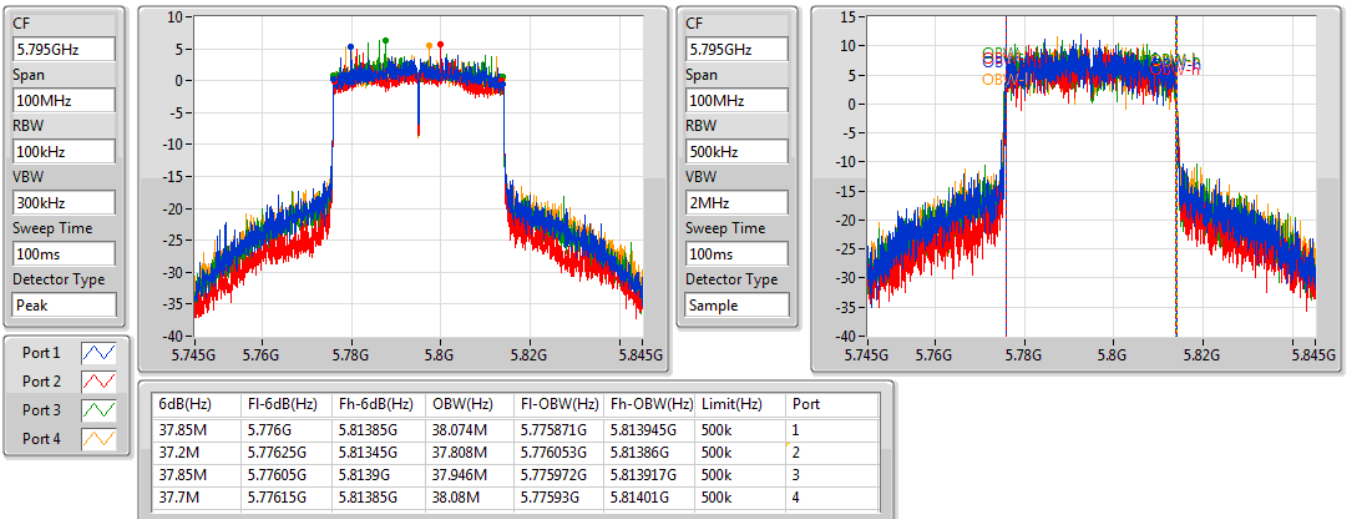


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5755MHz

17/09/2019

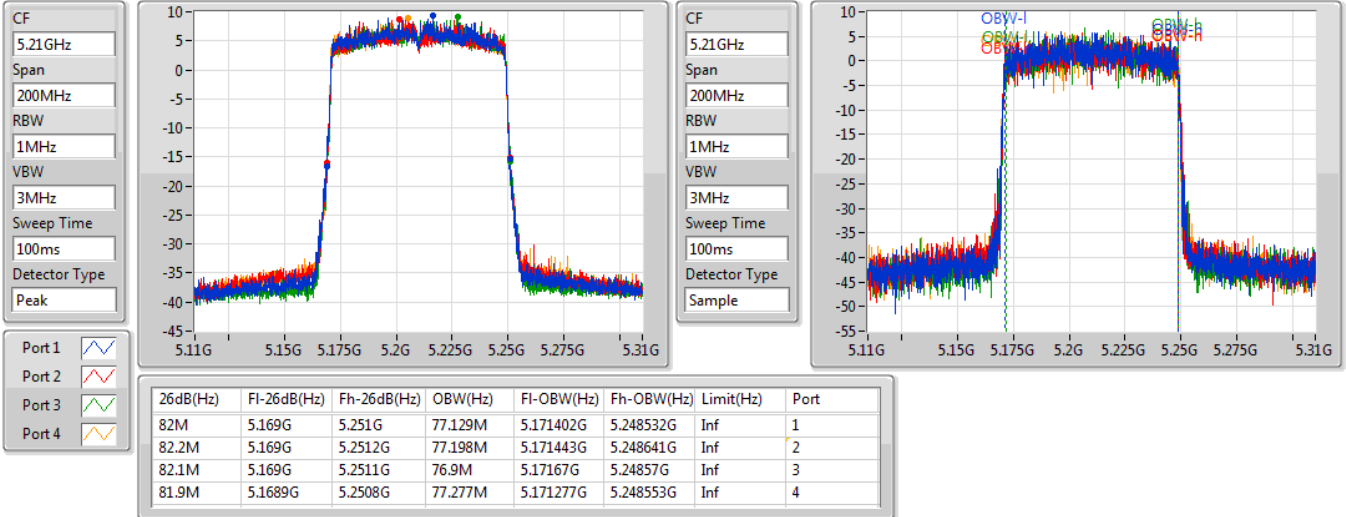

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5795MHz

17/09/2019

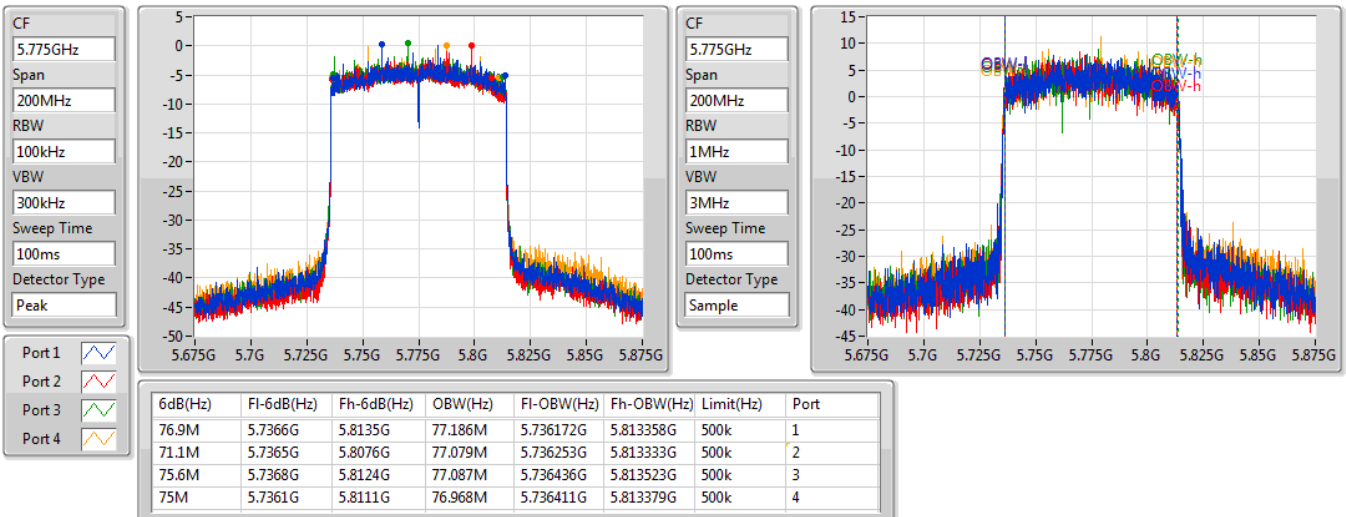


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5210MHz

17/09/2019


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5775MHz

17/09/2019



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	27.49	0.56105
802.11ac VHT20_Nss1,(MCS0)_4TX	27.19	0.52360
802.11ac VHT40_Nss1,(MCS0)_4TX	27.92	0.61944
802.11ac VHT80_Nss1,(MCS0)_4TX	22.78	0.18967
802.11ax HEW20_Nss1,(MCS0)_4TX	27.53	0.56624
802.11ax HEW40_Nss1,(MCS0)_4TX	28.15	0.65313
802.11ax HEW80_Nss1,(MCS0)_4TX	23.12	0.20512
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	25.32	0.34041
802.11ac VHT20_Nss1,(MCS0)_4TX	26.12	0.40926
802.11ac VHT40_Nss1,(MCS0)_4TX	27.90	0.61660
802.11ac VHT80_Nss1,(MCS0)_4TX	24.87	0.30690
802.11ax HEW20_Nss1,(MCS0)_4TX	26.34	0.43053
802.11ax HEW40_Nss1,(MCS0)_4TX	28.01	0.63241
802.11ax HEW80_Nss1,(MCS0)_4TX	25.02	0.31769



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	2.00	20.72	20.52	20.93	20.55	26.70	30.00
5200MHz	Pass	2.00	21.13	21.52	21.76	21.46	27.49	30.00
5240MHz	Pass	2.00	21.27	21.34	21.64	21.59	27.48	30.00
5745MHz	Pass	2.00	19.35	19.10	19.51	19.24	25.32	30.00
5785MHz	Pass	2.00	19.41	18.93	19.53	19.22	25.30	30.00
5825MHz	Pass	2.00	19.13	19.18	19.24	18.94	25.14	30.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	2.00	19.08	19.63	20.46	19.51	25.72	30.00
5200MHz	Pass	2.00	20.35	21.29	21.56	21.38	27.19	30.00
5240MHz	Pass	2.00	20.37	21.21	21.64	21.32	27.18	30.00
5745MHz	Pass	2.00	20.30	19.78	20.25	20.05	26.12	30.00
5785MHz	Pass	2.00	19.94	19.73	20.30	20.06	26.03	30.00
5825MHz	Pass	2.00	19.79	19.92	20.23	19.88	25.98	30.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	2.00	17.79	18.05	18.11	17.79	23.96	30.00
5230MHz	Pass	2.00	21.94	21.77	22.04	21.84	27.92	30.00
5755MHz	Pass	2.00	21.94	21.63	22.10	21.83	27.90	30.00
5795MHz	Pass	2.00	21.94	21.36	21.86	21.69	27.74	30.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	2.00	16.86	16.72	16.71	16.74	22.78	30.00
5775MHz	Pass	2.00	19.01	18.46	19.16	18.75	24.87	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	2.00	20.20	19.88	20.55	20.10	26.21	30.00
5200MHz	Pass	2.00	20.61	21.67	21.75	21.52	27.43	30.00
5240MHz	Pass	2.00	20.69	21.79	21.85	21.63	27.53	30.00
5745MHz	Pass	2.00	20.49	20.01	20.45	20.26	26.33	30.00
5785MHz	Pass	2.00	20.35	20.16	20.57	20.17	26.34	30.00
5825MHz	Pass	2.00	20.22	19.98	20.53	20.12	26.24	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	2.00	18.03	17.89	18.18	18.24	24.11	30.00
5230MHz	Pass	2.00	21.98	21.72	22.55	22.21	28.15	30.00
5755MHz	Pass	2.00	22.22	21.57	22.06	22.09	28.01	30.00
5795MHz	Pass	2.00	22.09	21.57	22.19	22.05	28.00	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	2.00	17.22	17.02	16.98	17.18	23.12	30.00
5775MHz	Pass	2.00	19.01	18.81	19.21	18.96	25.02	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	25.73	0.37411
802.11ax HEW40_Nss1,(MCS0)_4TX	24.93	0.31117
802.11ax HEW80_Nss1,(MCS0)_4TX	20.61	0.11508
5.725-5.85GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	24.51	0.28249
802.11ax HEW40_Nss1,(MCS0)_4TX	25.28	0.33729
802.11ax HEW80_Nss1,(MCS0)_4TX	22.79	0.19011

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_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	2.00	17.87	17.87	17.97	18.49	24.08	30.00
5200MHz	Pass	2.00	19.50	19.37	19.91	19.86	25.69	30.00
5240MHz	Pass	2.00	19.36	19.38	19.87	20.19	25.73	30.00
5745MHz	Pass	2.00	18.38	18.36	18.66	18.54	24.51	30.00
5785MHz	Pass	2.00	18.40	18.43	18.11	18.25	24.32	30.00
5825MHz	Pass	2.00	18.05	18.14	18.24	18.14	24.16	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	2.00	15.00	14.90	15.23	15.53	21.19	30.00
5230MHz	Pass	2.00	18.53	18.81	19.06	19.19	24.93	30.00
5755MHz	Pass	2.00	19.28	19.10	19.21	19.14	25.20	30.00
5795MHz	Pass	2.00	19.32	19.31	19.26	19.15	25.28	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	2.00	14.42	14.50	14.61	14.83	20.61	30.00
5775MHz	Pass	2.00	16.68	16.85	16.77	16.76	22.79	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	24.86	0.30620
802.11ax HEW40_Nss1,(MCS0)_4TX	25.27	0.33651
802.11ax HEW80_Nss1,(MCS0)_4TX	21.24	0.13305
5.725-5.85GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	23.35	0.21627
802.11ax HEW40_Nss1,(MCS0)_4TX	25.28	0.33729
802.11ax HEW80_Nss1,(MCS0)_4TX	23.76	0.23768

**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_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	2.00	16.96	16.62	16.96	17.32	22.99	30.00
5200MHz	Pass	2.00	18.47	18.82	18.89	19.15	24.86	30.00
5240MHz	Pass	2.00	18.24	18.23	18.54	19.08	24.56	30.00
5745MHz	Pass	2.00	17.35	17.20	17.37	17.41	23.35	30.00
5785MHz	Pass	2.00	16.69	17.04	16.46	17.03	22.83	30.00
5825MHz	Pass	2.00	16.68	16.56	16.50	16.82	22.66	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	2.00	14.90	15.03	15.03	15.86	21.24	30.00
5230MHz	Pass	2.00	18.42	19.30	19.55	19.62	25.27	30.00
5755MHz	Pass	2.00	19.28	19.10	19.21	19.14	25.20	30.00
5795MHz	Pass	2.00	19.32	19.31	19.26	19.15	25.28	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	2.00	15.03	15.08	15.26	15.50	21.24	30.00
5775MHz	Pass	2.00	17.73	17.75	17.75	17.73	23.76	30.00

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_4TX	14.77
802.11ac VHT20_Nss1,(MCS0)_4TX	14.28
802.11ac VHT40_Nss1,(MCS0)_4TX	11.78
802.11ac VHT80_Nss1,(MCS0)_4TX	3.52
802.11ax HEW20_Nss1,(MCS0)_4TX	14.24
802.11ax HEW40_Nss1,(MCS0)_4TX	11.74
802.11ax HEW80_Nss1,(MCS0)_4TX	3.69
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	9.04
802.11ac VHT20_Nss1,(MCS0)_4TX	9.88
802.11ac VHT40_Nss1,(MCS0)_4TX	8.66
802.11ac VHT80_Nss1,(MCS0)_4TX	2.70
802.11ax HEW20_Nss1,(MCS0)_4TX	9.58
802.11ax HEW40_Nss1,(MCS0)_4TX	8.49
802.11ax HEW80_Nss1,(MCS0)_4TX	2.90

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.01	8.02	8.19	8.06	7.62	13.70	17.00
5200MHz	Pass	5.01	8.44	9.12	9.33	8.69	14.77	17.00
5240MHz	Pass	5.01	8.82	8.98	9.13	9.11	14.71	17.00
5745MHz	Pass	5.01	3.37	2.99	3.46	3.27	9.04	30.00
5785MHz	Pass	5.01	3.39	3.34	3.73	3.21	9.00	30.00
5825MHz	Pass	5.01	2.87	3.60	3.12	2.77	8.72	30.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.01	6.81	6.37	7.31	6.19	12.62	17.00
5200MHz	Pass	5.01	7.49	8.54	8.78	8.60	14.20	17.00
5240MHz	Pass	5.01	7.51	9.01	8.96	8.59	14.28	17.00
5745MHz	Pass	5.01	4.04	3.94	3.90	3.87	9.78	30.00
5785MHz	Pass	5.01	3.76	4.01	4.21	4.22	9.88	30.00
5825MHz	Pass	5.01	3.42	3.92	3.92	3.76	9.44	30.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.01	2.00	2.42	1.97	1.69	7.88	17.00
5230MHz	Pass	5.01	6.13	5.88	6.04	5.69	11.78	17.00
5755MHz	Pass	5.01	2.71	3.02	3.20	2.65	8.58	30.00
5795MHz	Pass	5.01	2.70	2.75	2.96	2.75	8.66	30.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.01	-1.92	-2.29	-2.28	-2.38	3.52	17.00
5775MHz	Pass	5.01	-3.03	-3.09	-2.83	-3.08	2.70	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.01	6.93	6.54	7.01	6.63	12.42	17.00
5200MHz	Pass	5.01	7.35	8.55	8.89	8.28	14.22	17.00
5240MHz	Pass	5.01	7.24	8.82	8.70	8.83	14.24	17.00
5745MHz	Pass	5.01	3.86	3.60	3.87	3.58	9.58	30.00
5785MHz	Pass	5.01	3.71	4.18	4.24	3.81	9.58	30.00
5825MHz	Pass	5.01	3.52	3.71	3.88	3.60	9.44	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.01	1.93	1.69	1.89	1.76	7.50	17.00
5230MHz	Pass	5.01	5.90	5.81	6.24	6.08	11.74	17.00
5755MHz	Pass	5.01	2.89	2.76	2.97	2.81	8.49	30.00
5795MHz	Pass	5.01	2.83	2.40	2.93	2.64	8.48	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.01	-1.60	-2.00	-2.18	-2.15	3.69	17.00
5775MHz	Pass	5.01	-3.11	-2.86	-2.93	-3.03	2.90	30.00

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

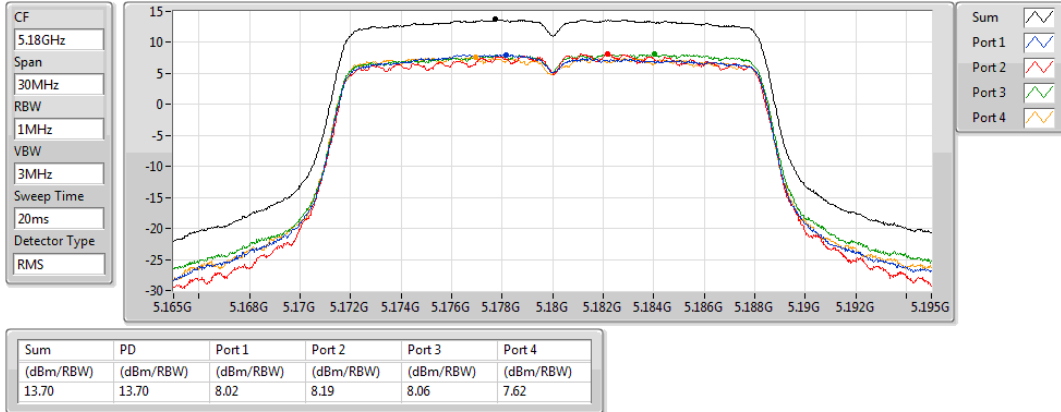
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5180MHz

17/09/2019

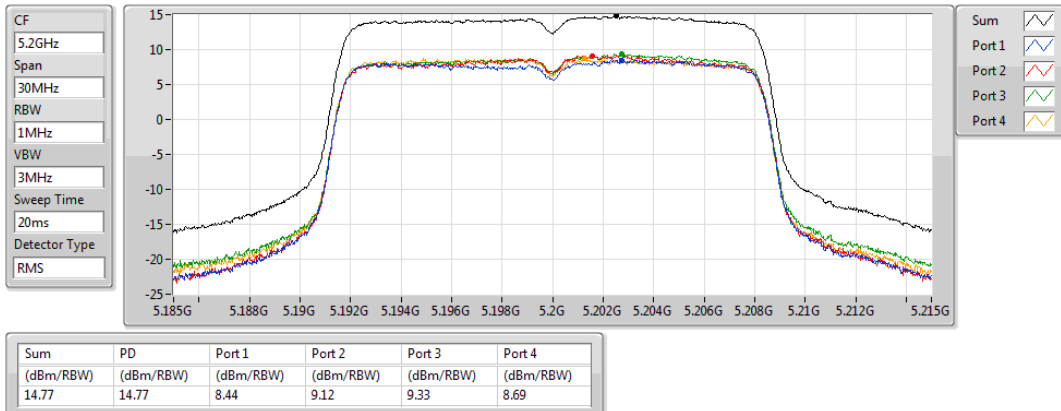


802.11a_Nss1,(6Mbps)_4TX

PSD

5200MHz

19/09/2019

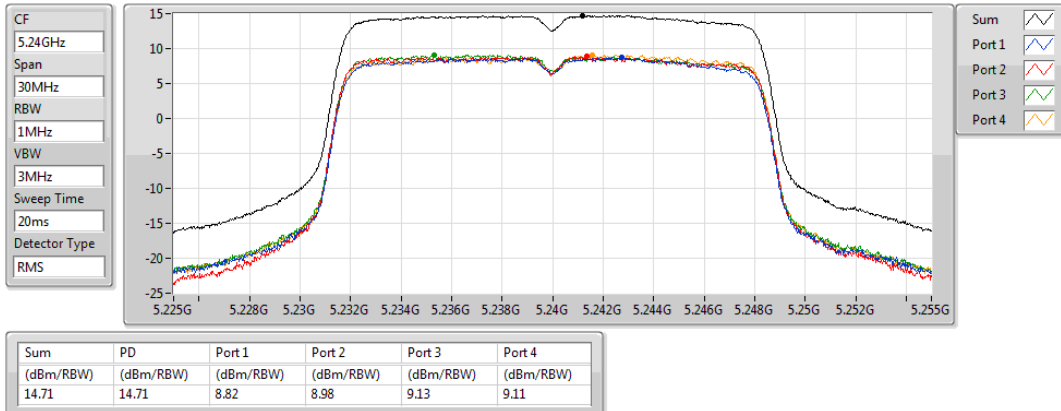


802.11a_Nss1,(6Mbps)_4TX

PSD

5240MHz

19/09/2019

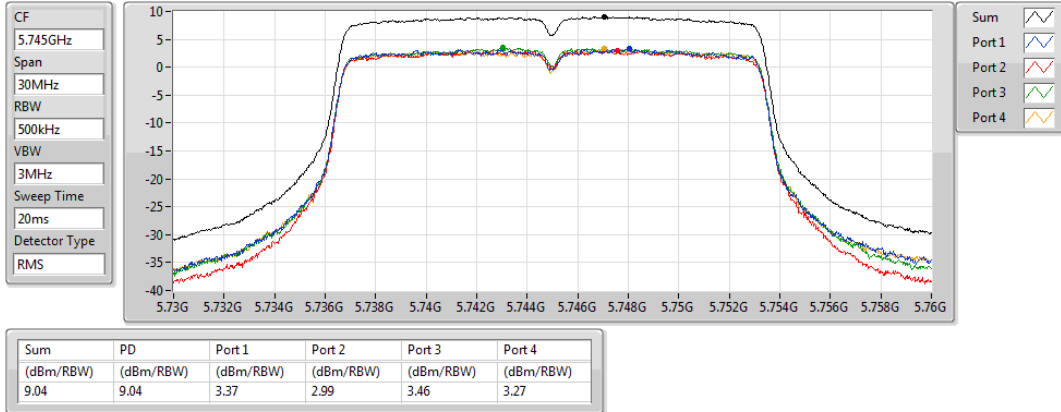


802.11a_Nss1,(6Mbps)_4TX

PSD

5745MHz

17/09/2019

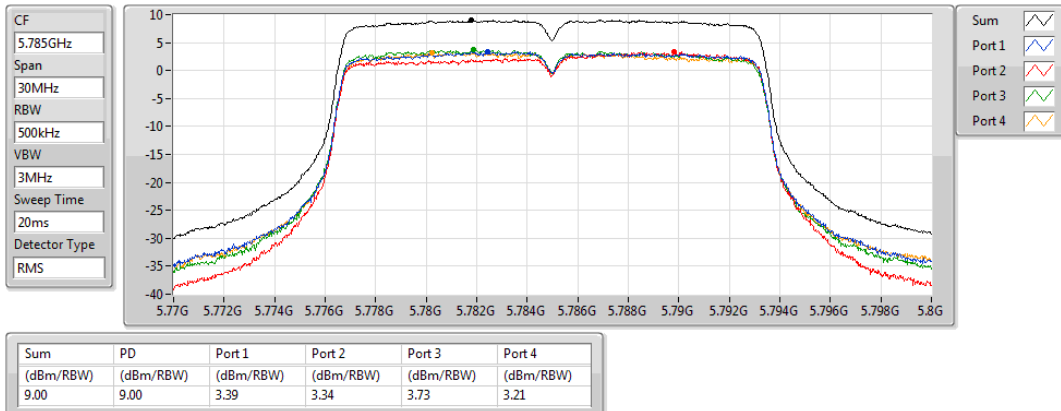


802.11a_Nss1,(6Mbps)_4TX

PSD

5785MHz

17/09/2019

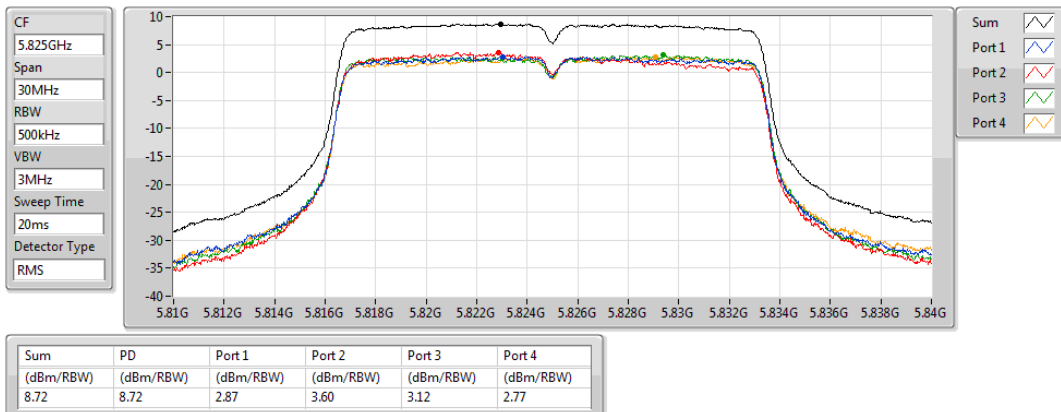


802.11a_Nss1,(6Mbps)_4TX

PSD

5825MHz

17/09/2019

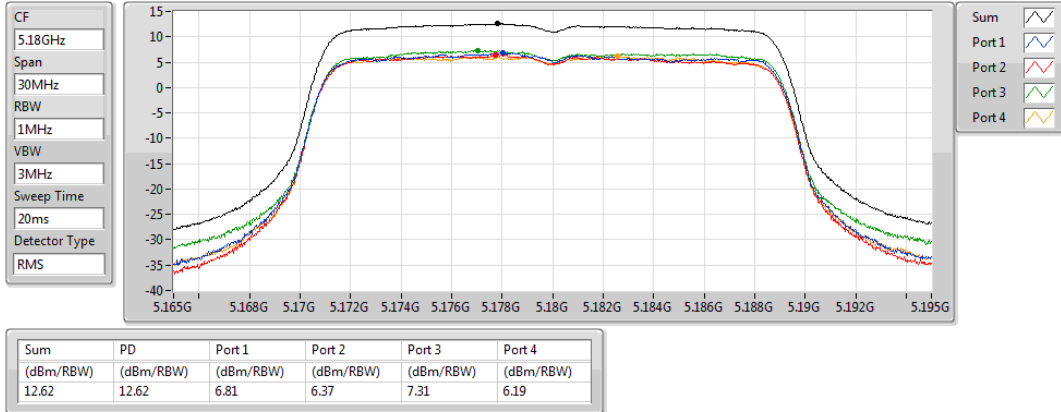


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5180MHz

17/09/2019

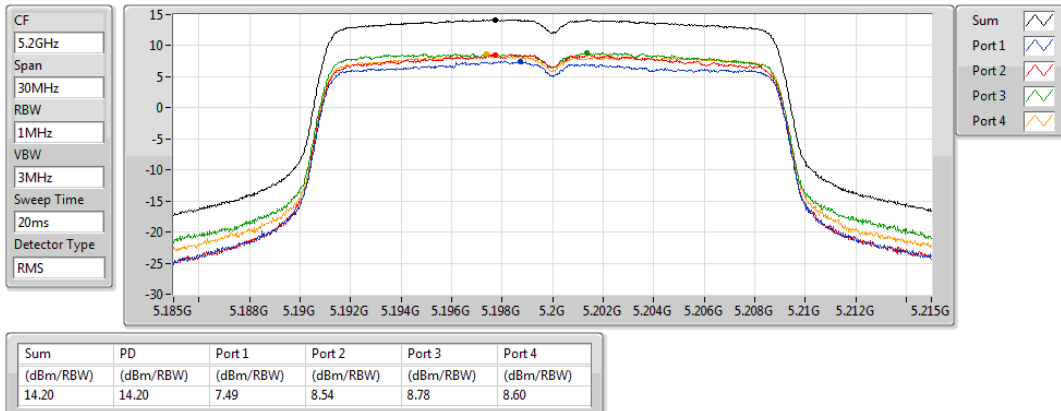


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5200MHz

19/09/2019

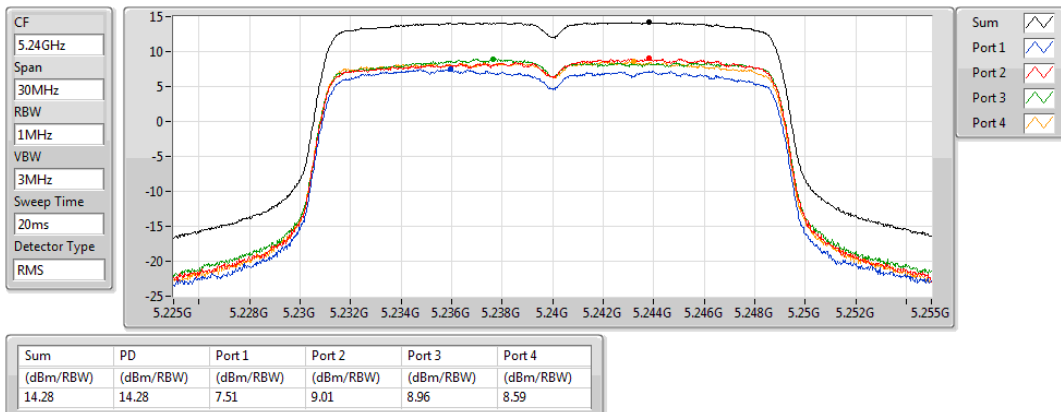


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5240MHz

19/09/2019

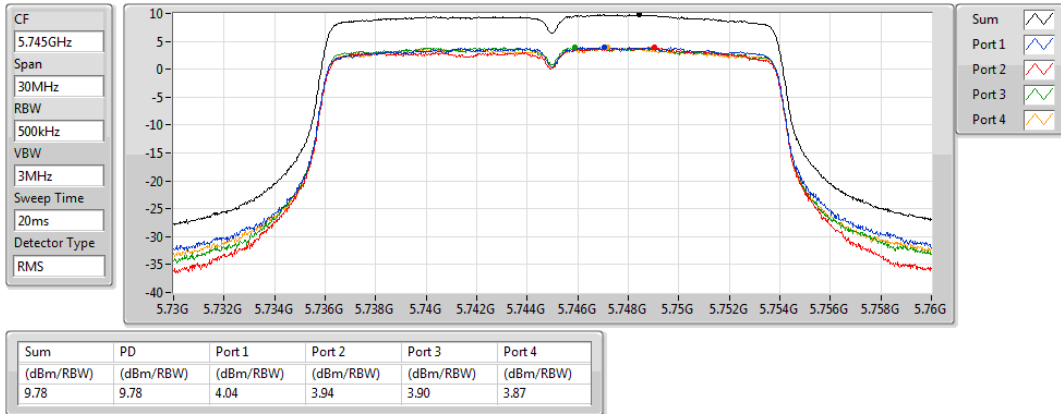


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5745MHz

17/09/2019

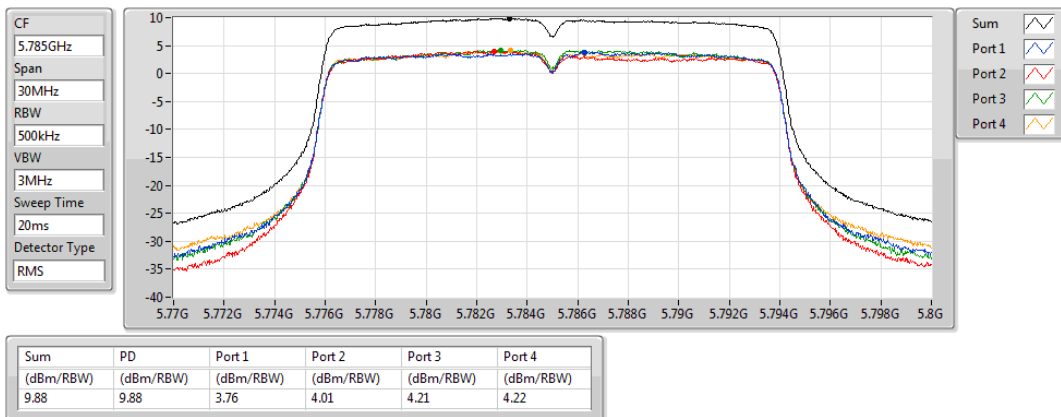


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5785MHz

17/09/2019

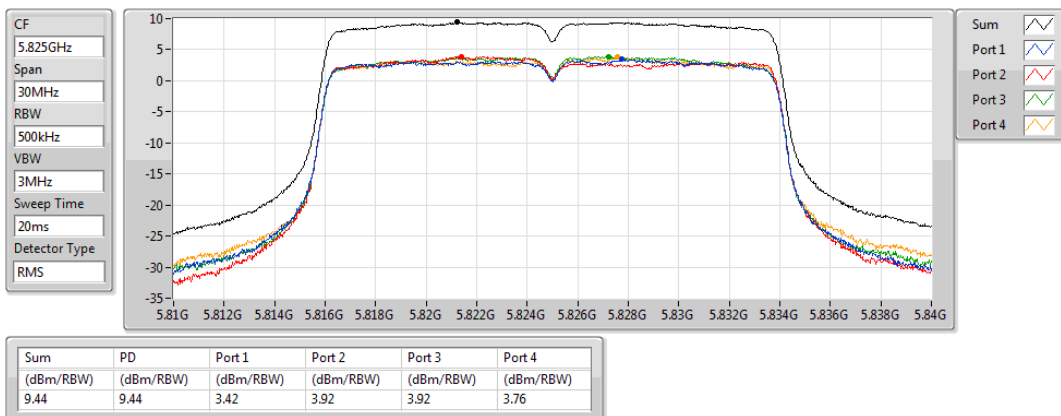


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5825MHz

17/09/2019

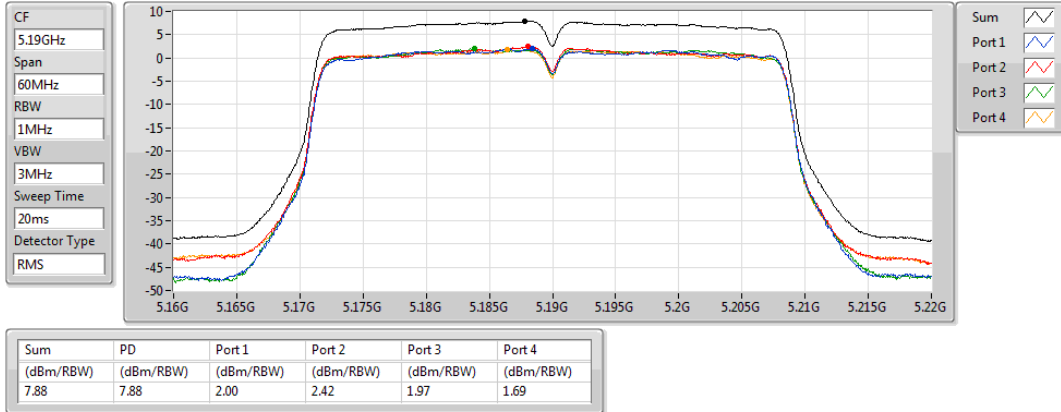


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5190MHz

17/09/2019

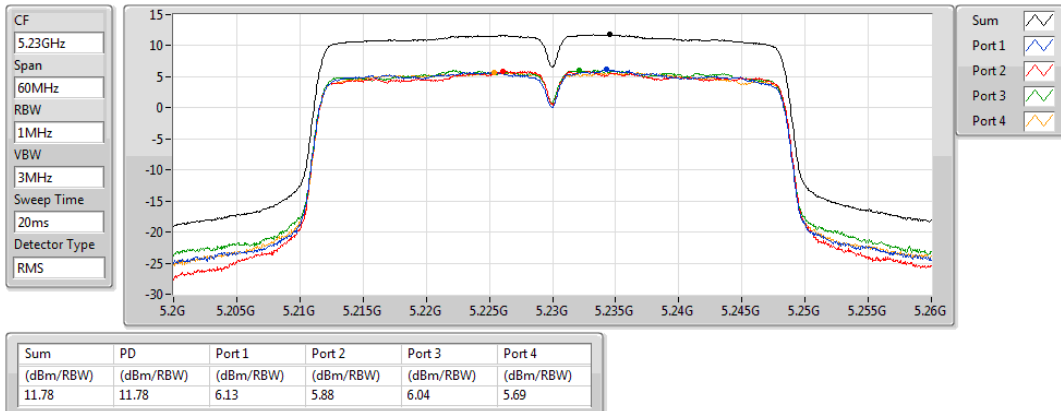


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5230MHz

17/09/2019

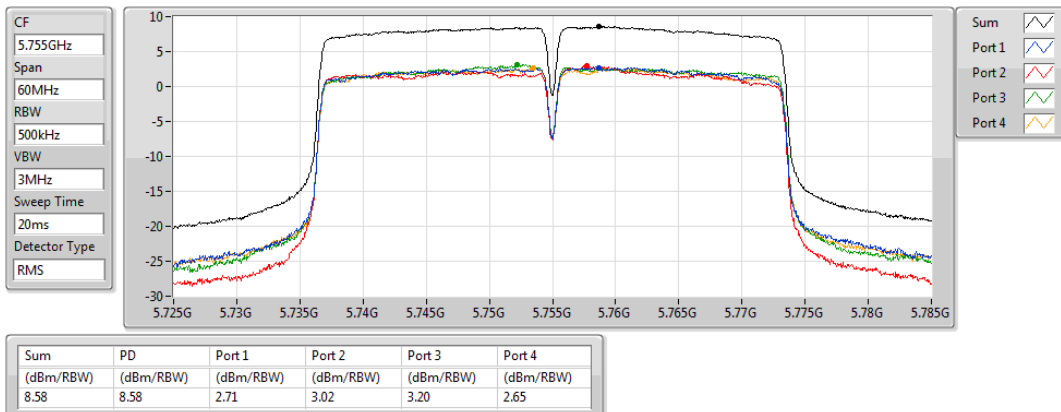


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5755MHz

17/09/2019

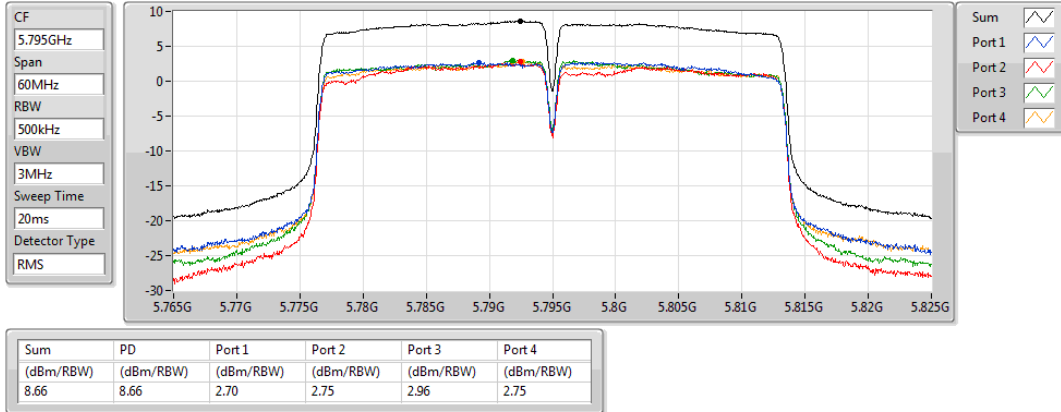


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5795MHz

17/09/2019

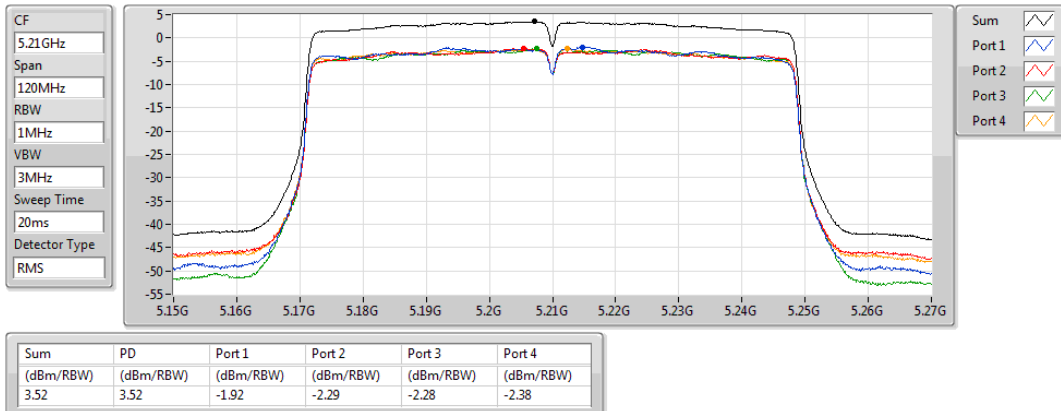


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5210MHz

17/09/2019

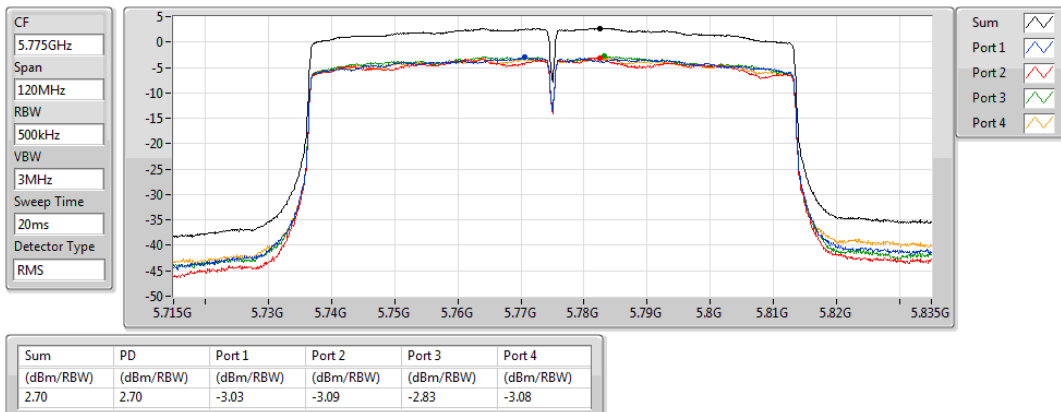


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5775MHz

17/09/2019

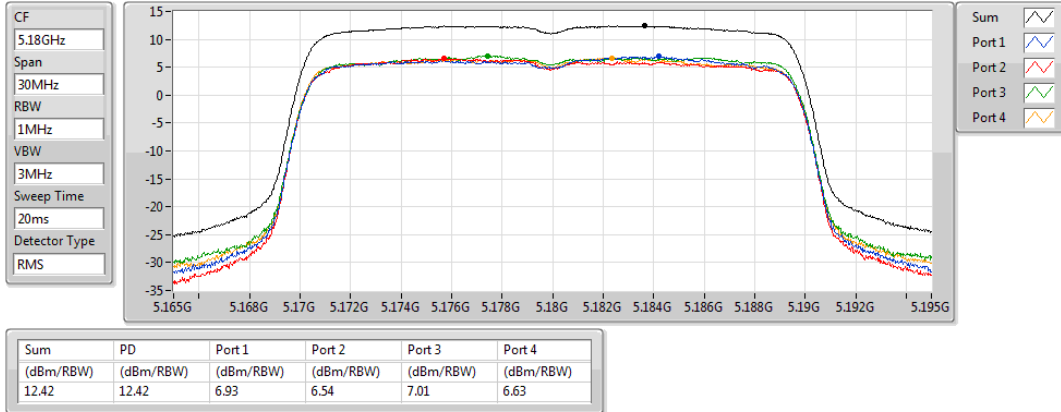


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5180MHz

17/09/2019

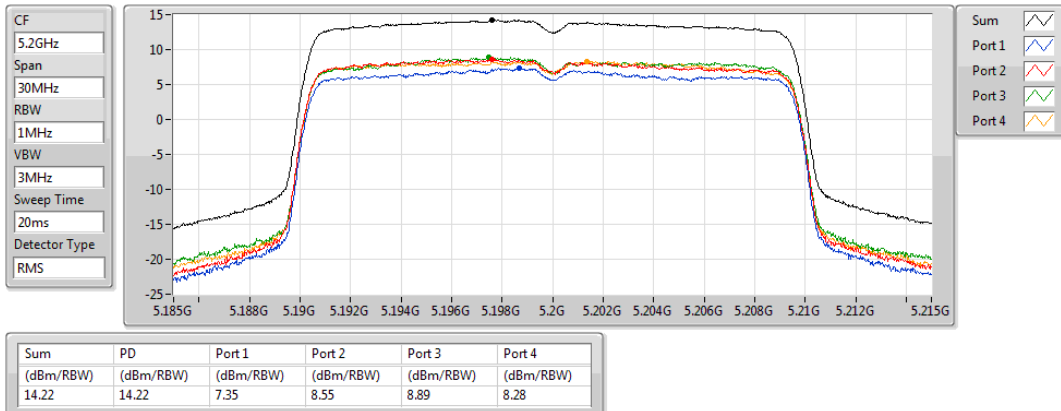


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5200MHz

19/09/2019

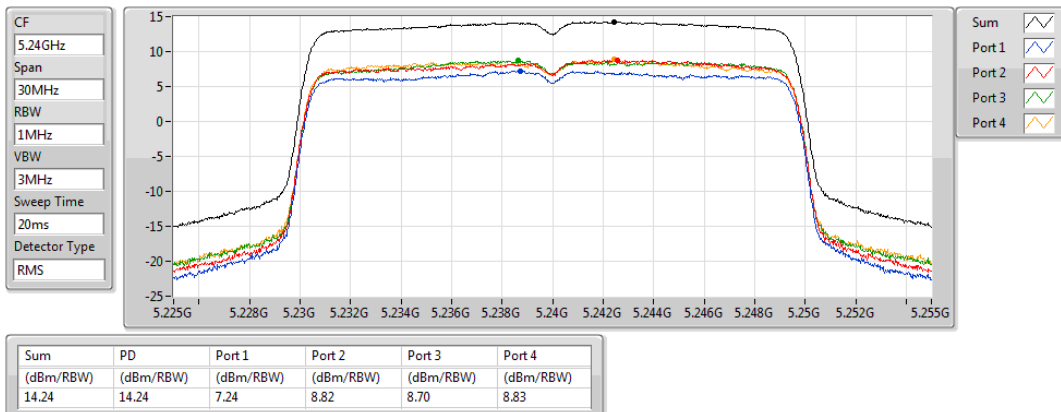


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5240MHz

19/09/2019

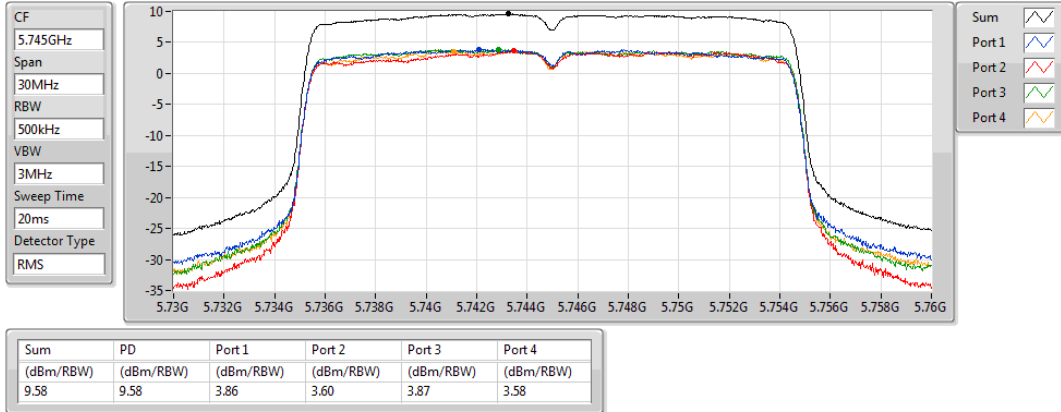


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5745MHz

17/09/2019

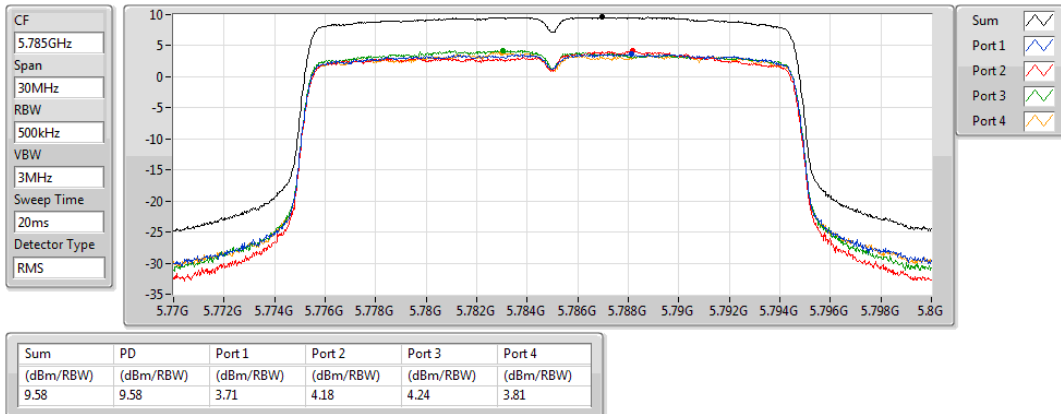


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5785MHz

17/09/2019

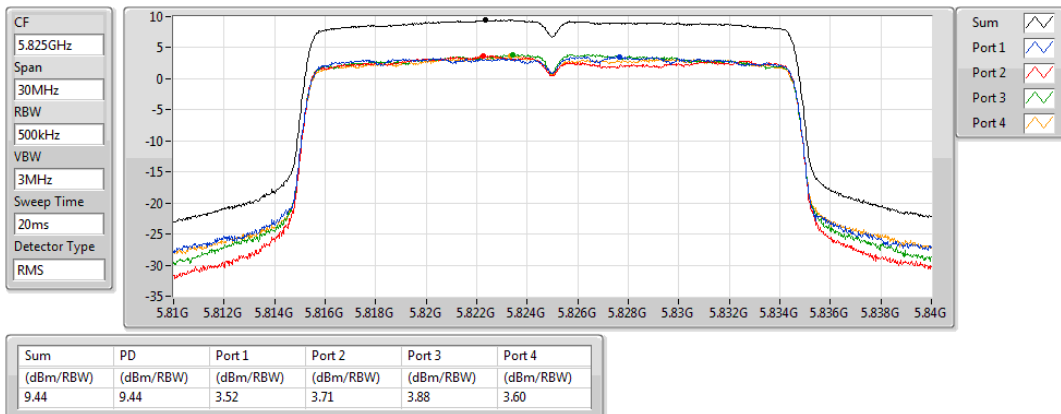


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5825MHz

17/09/2019

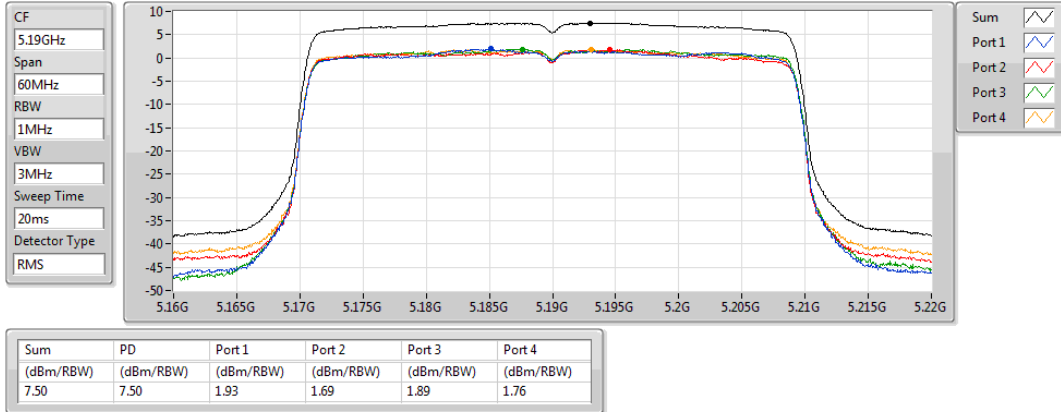


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5190MHz

17/09/2019

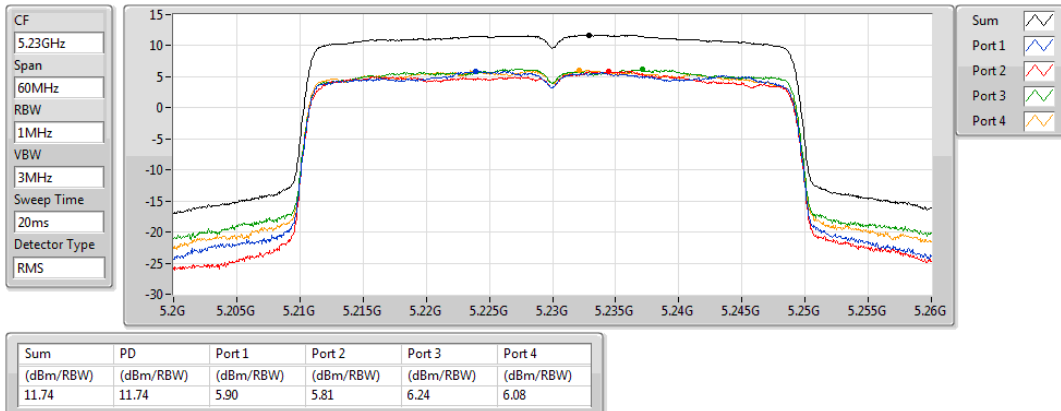


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5230MHz

17/09/2019

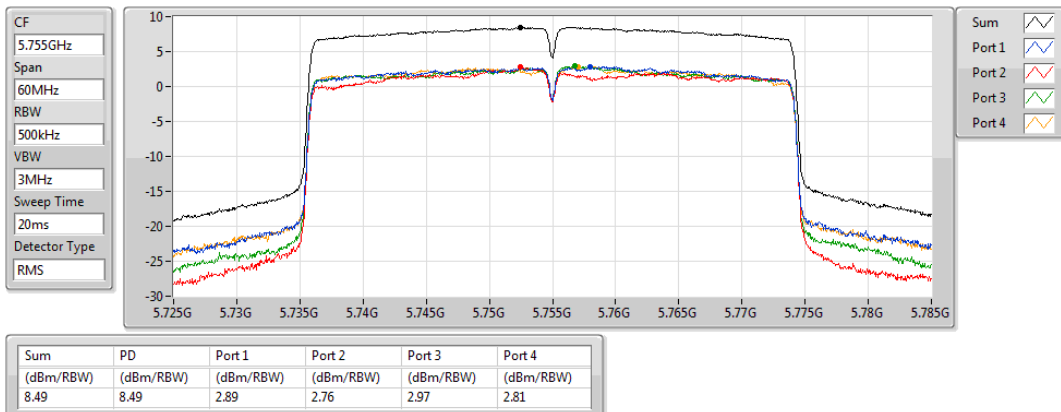


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5755MHz

17/09/2019

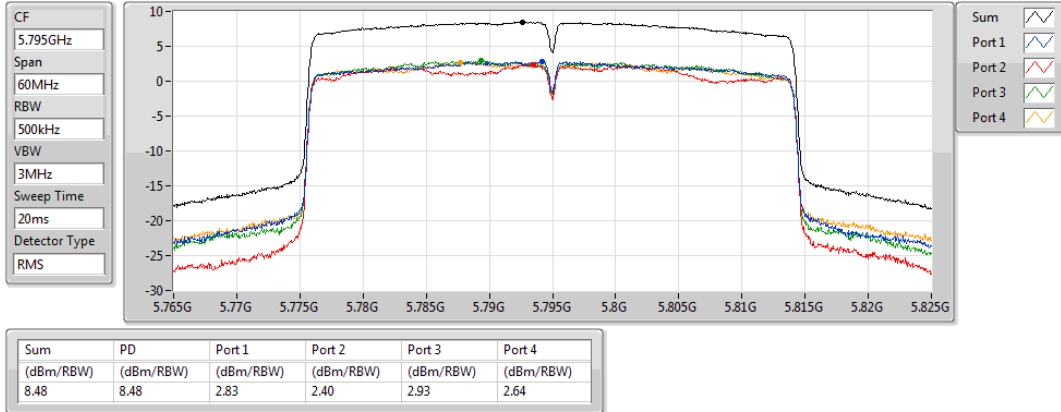


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5795MHz

17/09/2019

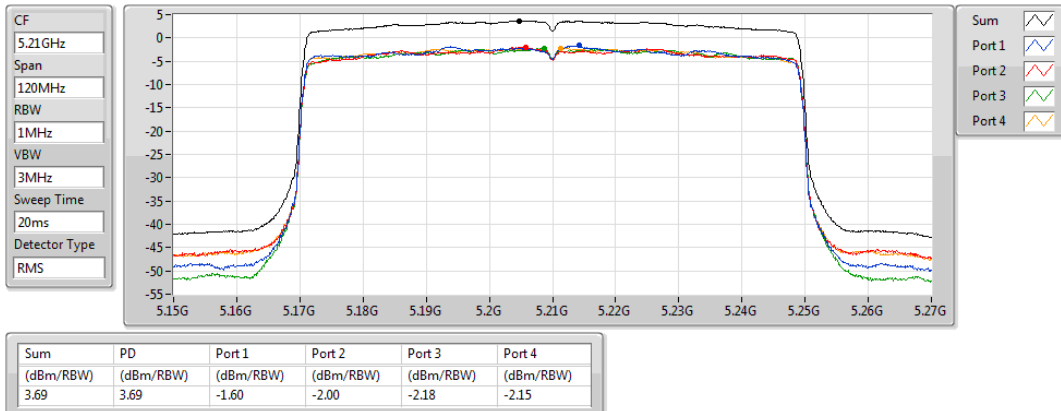


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5210MHz

17/09/2019

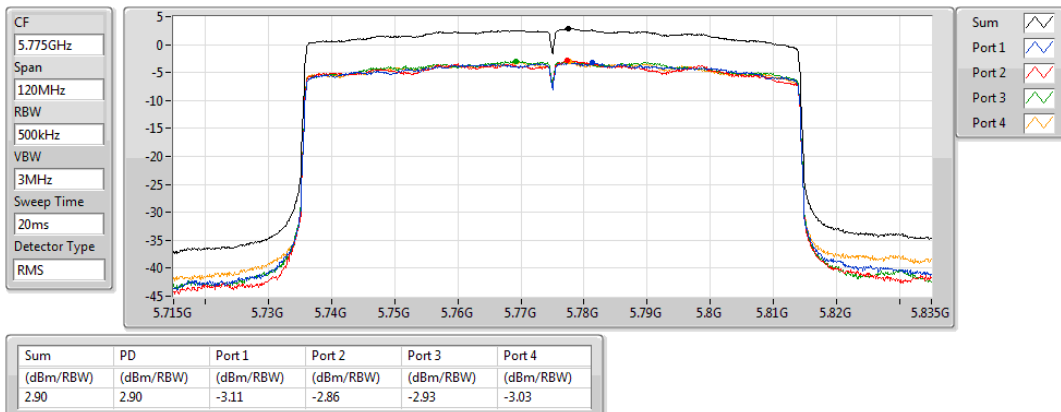


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5775MHz

17/09/2019



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW20_Nss1,(MCS0)_4TX	14.00
802.11ax HEW40_Nss1,(MCS0)_4TX	11.45
802.11ax HEW80_Nss1,(MCS0)_4TX	3.69
5.725-5.85GHz	-
802.11ax HEW20_Nss1,(MCS0)_4TX	9.55
802.11ax HEW40_Nss1,(MCS0)_4TX	8.34
802.11ax HEW80_Nss1,(MCS0)_4TX	2.64

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_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.01	6.58	6.30	5.99	6.82	12.29	17.00
5200MHz	Pass	5.01	7.88	7.84	8.43	8.52	13.88	17.00
5240MHz	Pass	5.01	8.12	8.16	8.59	8.82	14.00	17.00
5745MHz	Pass	5.01	3.71	4.19	3.94	3.80	9.37	30.00
5785MHz	Pass	5.01	3.60	4.16	3.52	4.07	9.55	30.00
5825MHz	Pass	5.01	3.53	3.93	3.41	3.58	9.16	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.01	1.39	1.74	1.60	1.71	7.23	17.00
5230MHz	Pass	5.01	5.60	5.64	5.71	5.76	11.45	17.00
5755MHz	Pass	5.01	2.66	2.47	2.53	2.35	8.34	30.00
5795MHz	Pass	5.01	2.74	2.72	2.84	2.61	8.31	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.01	-2.23	-1.62	-1.88	-1.80	3.69	17.00
5775MHz	Pass	5.01	-3.06	-2.74	-2.82	-2.81	2.64	30.00

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

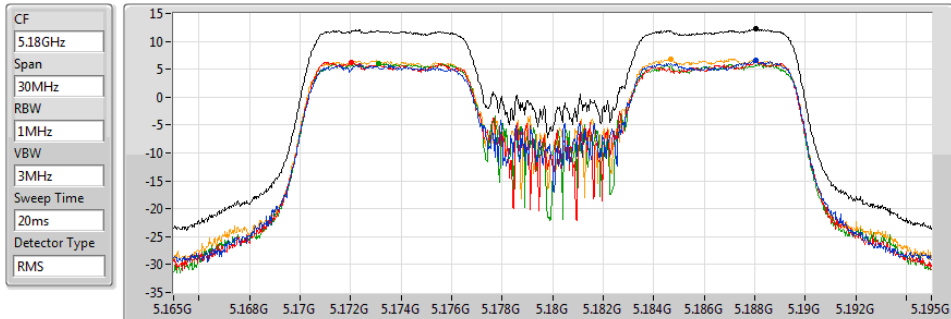
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5180MHz

14/11/2019



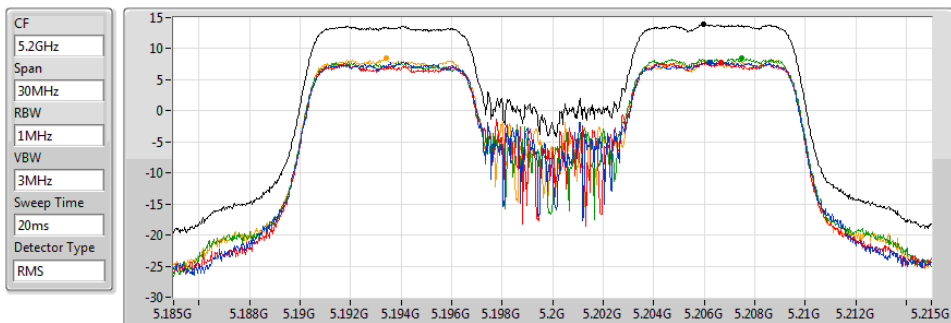
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
12.29	12.29	6.58	6.30	5.99	6.82

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5200MHz

14/11/2019



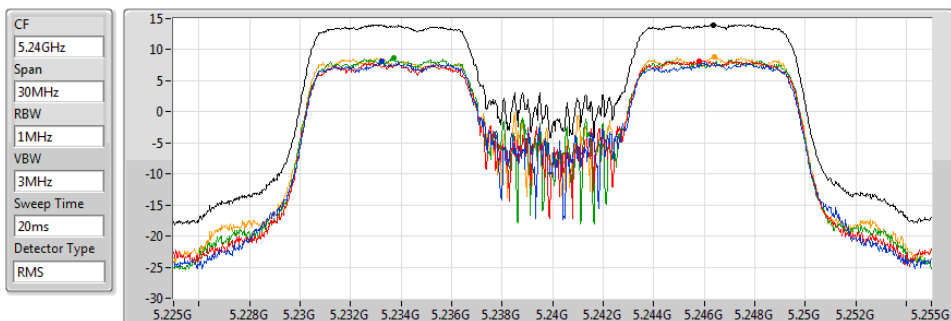
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
13.88	13.88	7.88	7.84	8.43	8.52

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5240MHz

14/11/2019



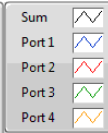
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
14.00	14.00	8.12	8.16	8.59	8.82

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5745MHz

14/11/2019



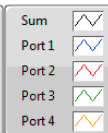
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.37	9.37	3.71	4.19	3.94	3.80

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5785MHz

14/11/2019



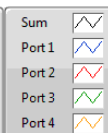
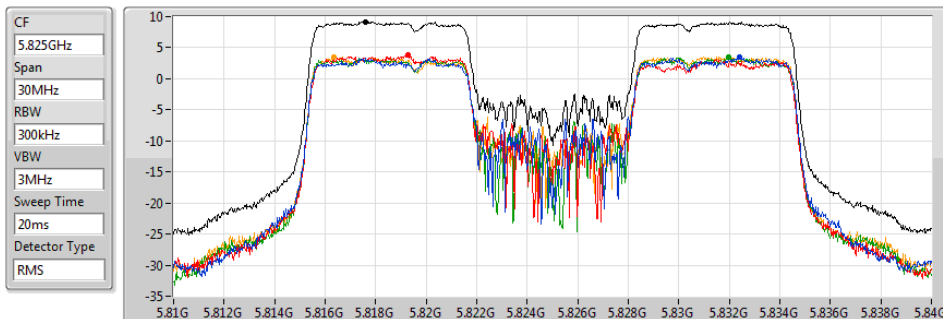
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.55	9.55	3.60	4.16	3.52	4.07

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5825MHz

14/11/2019



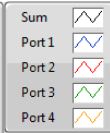
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.16	9.16	3.53	3.93	3.41	3.58

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5190MHz

14/11/2019



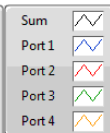
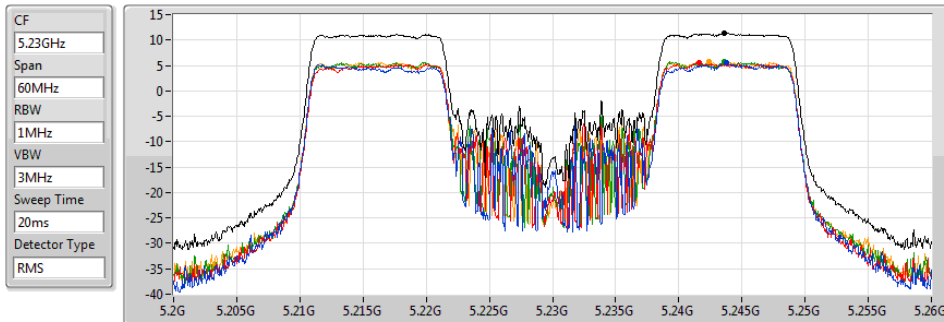
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.23	7.23	1.39	1.74	1.60	1.71

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5230MHz

14/11/2019



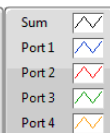
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.45	11.45	5.60	5.64	5.71	5.76

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5755MHz

14/11/2019



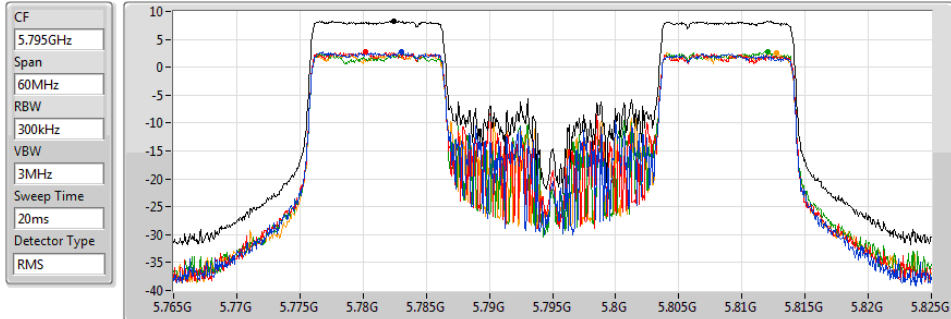
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.34	8.34	2.66	2.47	2.53	2.35

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5795MHz

14/11/2019



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.31	8.31	2.74	2.72	2.84	2.61

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5210MHz

14/11/2019



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.69	3.69	-2.23	-1.62	-1.88	-1.80

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5775MHz

14/11/2019



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.64	2.64	-3.06	-2.74	-2.82	-2.81

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW20_Nss1,(MCS0)_4TX	14.14
802.11ax HEW40_Nss1,(MCS0)_4TX	11.67
802.11ax HEW80_Nss1,(MCS0)_4TX	3.28
5.725-5.85GHz	-
802.11ax HEW20_Nss1,(MCS0)_4TX	9.38
802.11ax HEW40_Nss1,(MCS0)_4TX	8.38
802.11ax HEW80_Nss1,(MCS0)_4TX	2.69

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_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.01	6.40	6.30	6.30	6.88	12.22	17.00
5200MHz	Pass	5.01	8.03	8.59	8.31	8.86	14.13	17.00
5240MHz	Pass	5.01	8.15	8.20	8.45	8.82	14.14	17.00
5745MHz	Pass	5.01	3.65	3.69	3.54	3.58	9.38	30.00
5785MHz	Pass	5.01	3.21	4.06	3.02	3.44	9.19	30.00
5825MHz	Pass	5.01	3.17	3.74	3.34	3.57	9.03	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.01	1.66	1.58	1.53	2.10	7.40	17.00
5230MHz	Pass	5.01	5.76	5.78	6.38	6.21	11.67	17.00
5755MHz	Pass	5.01	2.52	2.41	2.50	2.46	8.11	30.00
5795MHz	Pass	5.01	2.55	2.89	2.51	2.84	8.38	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.01	-2.48	-2.71	-2.29	-2.40	3.28	17.00
5775MHz	Pass	5.01	-2.92	-2.57	-2.86	-2.86	2.69	30.00

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

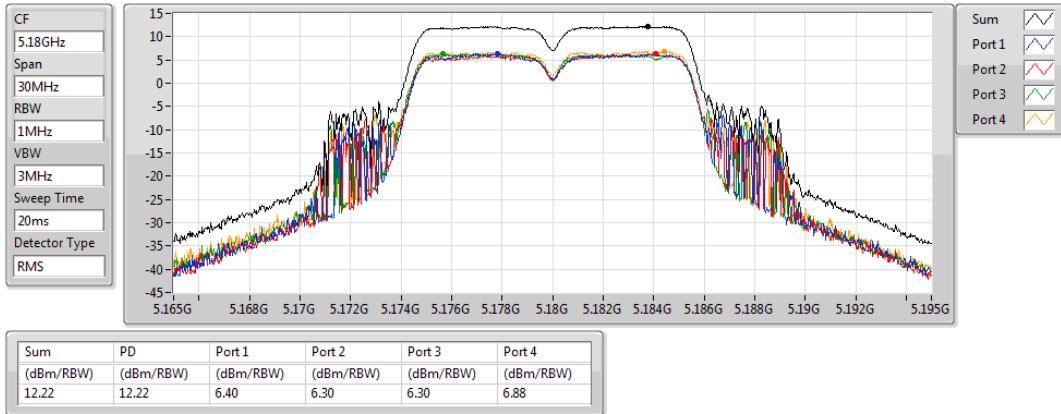
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5180MHz

14/11/2019

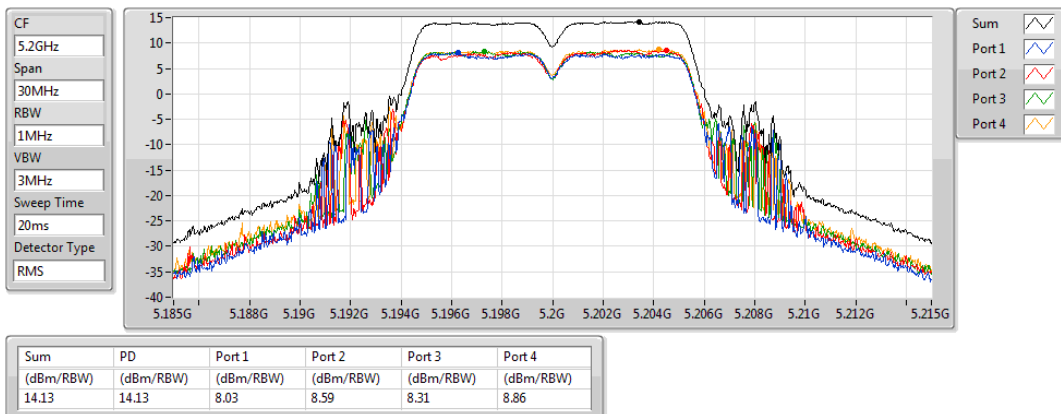


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5200MHz

14/11/2019

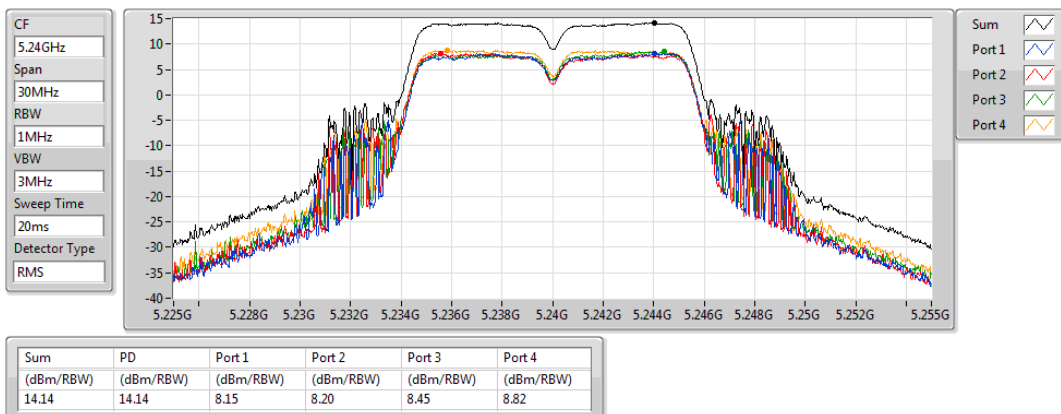


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5240MHz

14/11/2019

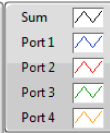
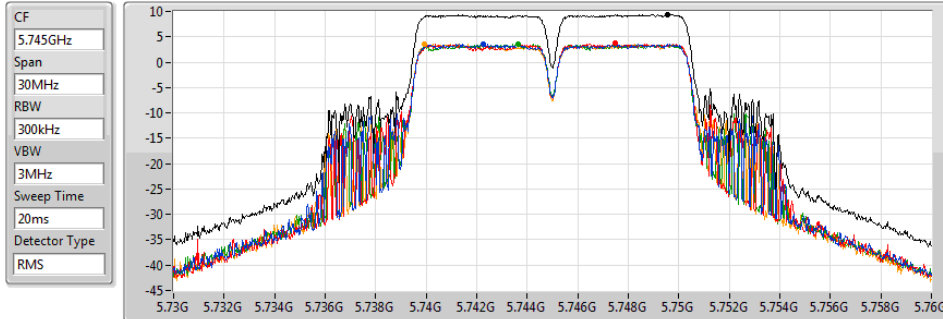


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5745MHz

14/11/2019



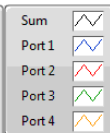
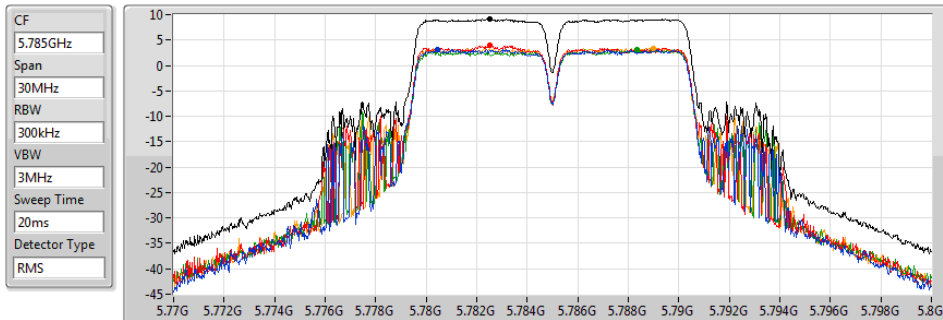
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
9.38	9.38	3.65	3.69	3.54	3.58

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5785MHz

14/11/2019



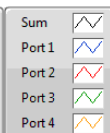
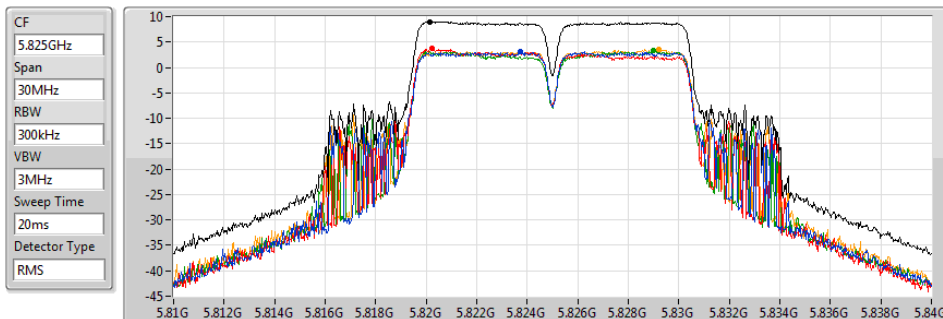
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
9.19	9.19	3.21	4.06	3.02	3.44

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5825MHz

14/11/2019



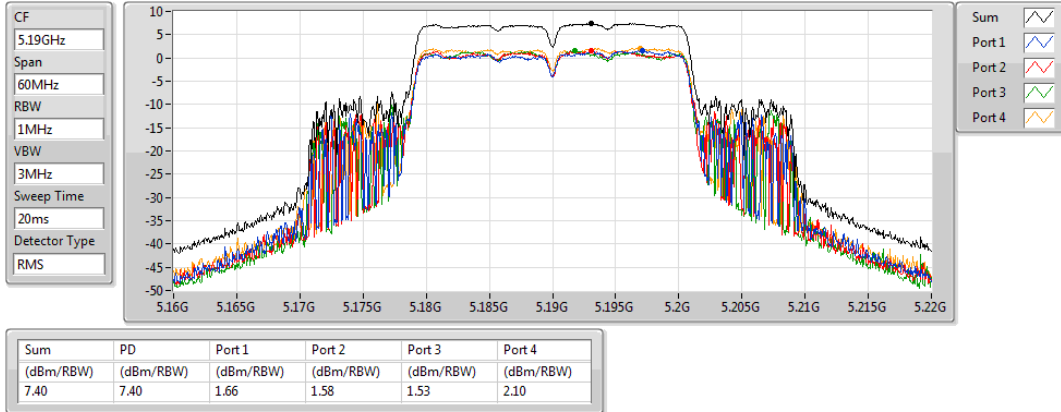
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
9.03	9.03	3.17	3.74	3.34	3.57

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5190MHz

14/11/2019

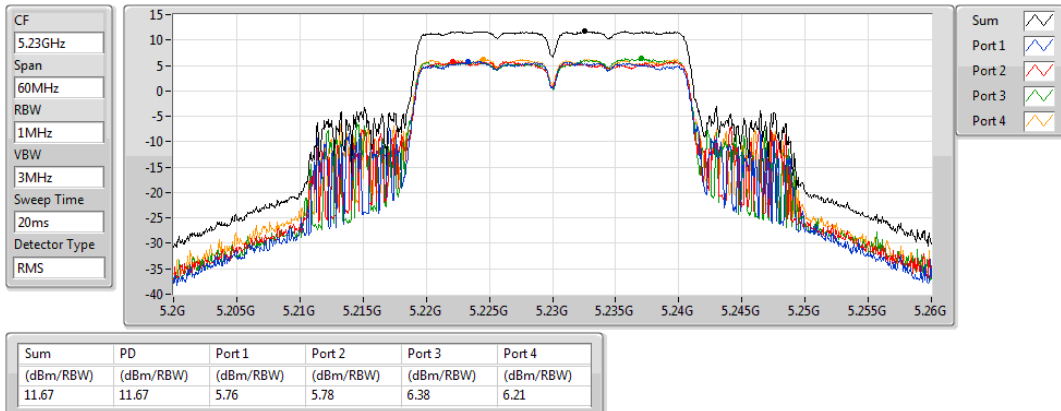


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5230MHz

14/11/2019

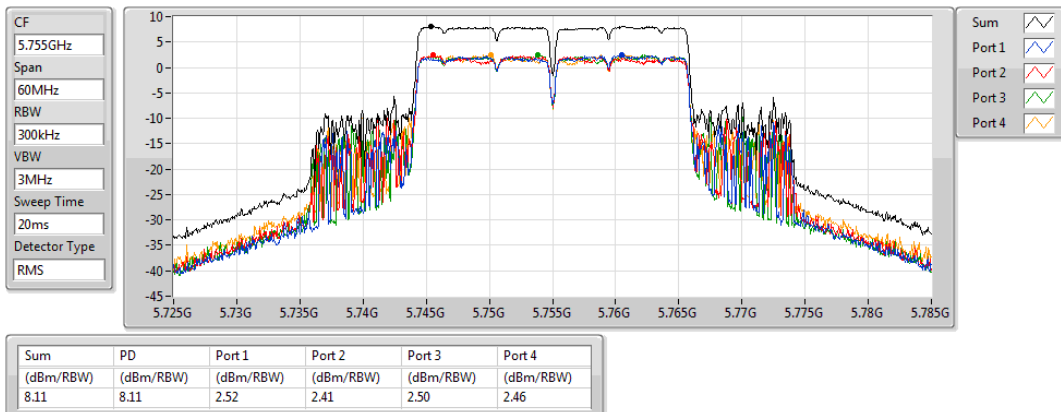


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5755MHz

14/11/2019



802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5795MHz

14/11/2019



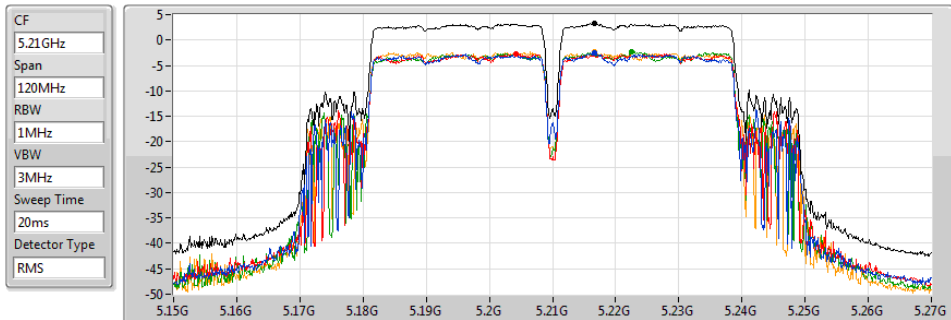
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.38	8.38	2.55	2.89	2.51	2.84

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5210MHz

14/11/2019



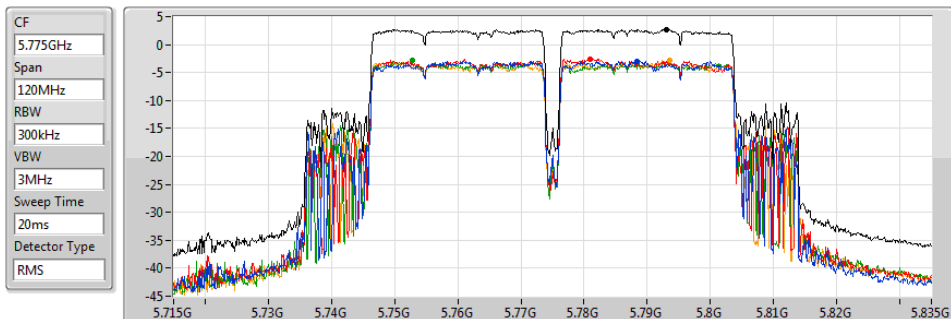
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.28	3.28	-2.48	-2.71	-2.29	-2.40

802.11ax HEW80_Nss1,(MCS0)_4TX

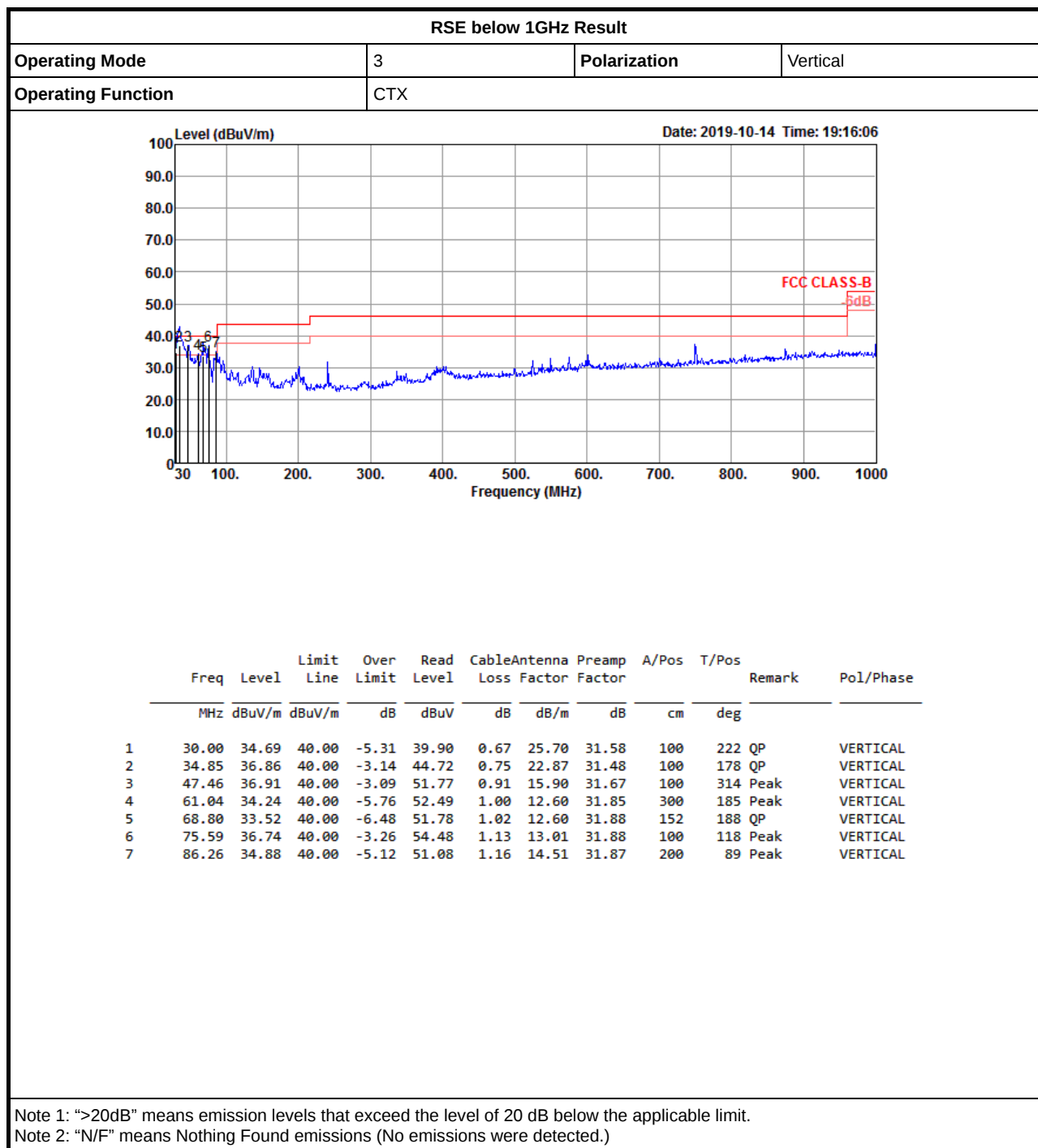
PSD

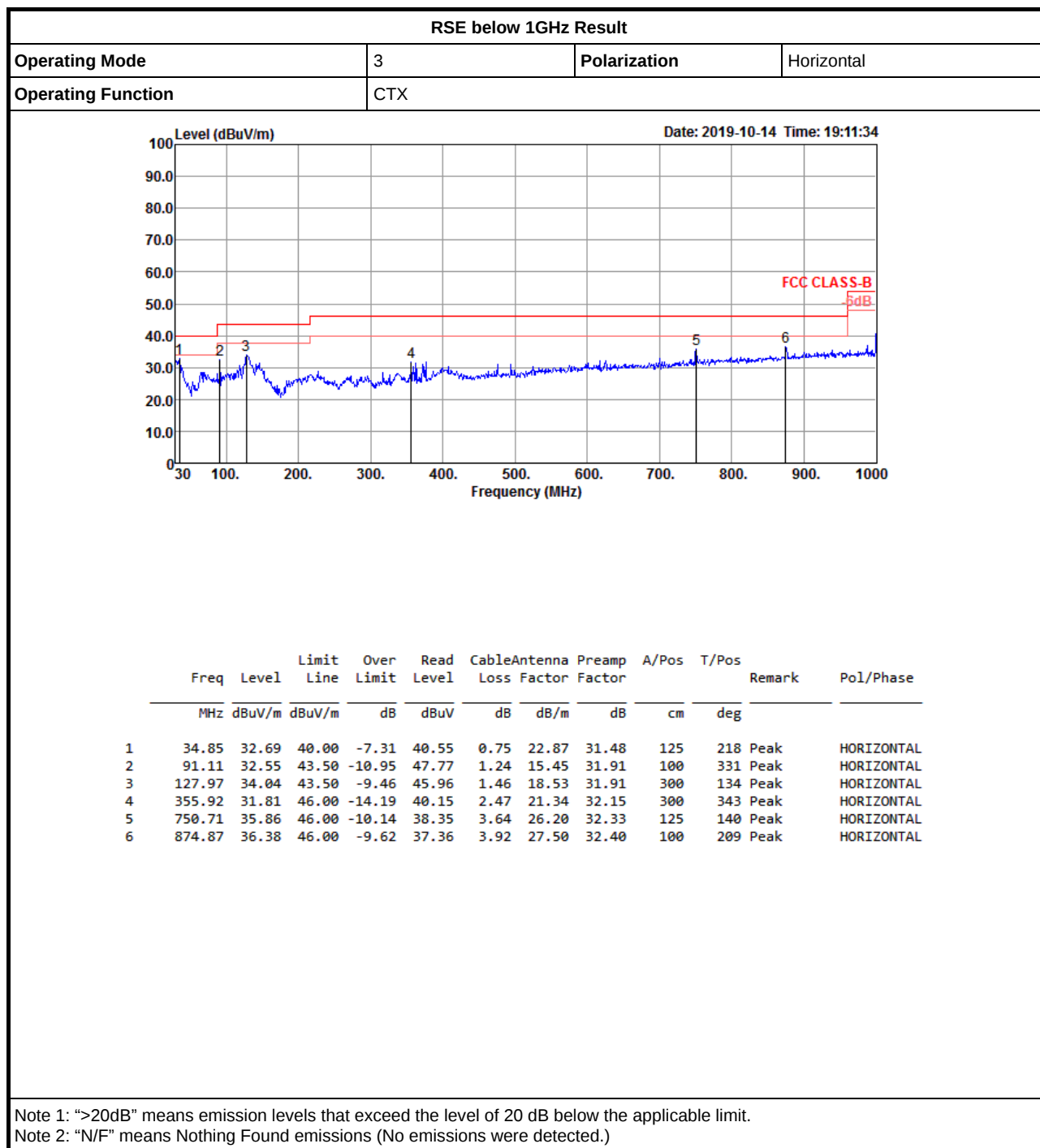
5775MHz

14/11/2019



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.69	2.69	-2.92	-2.57	-2.86	-2.86







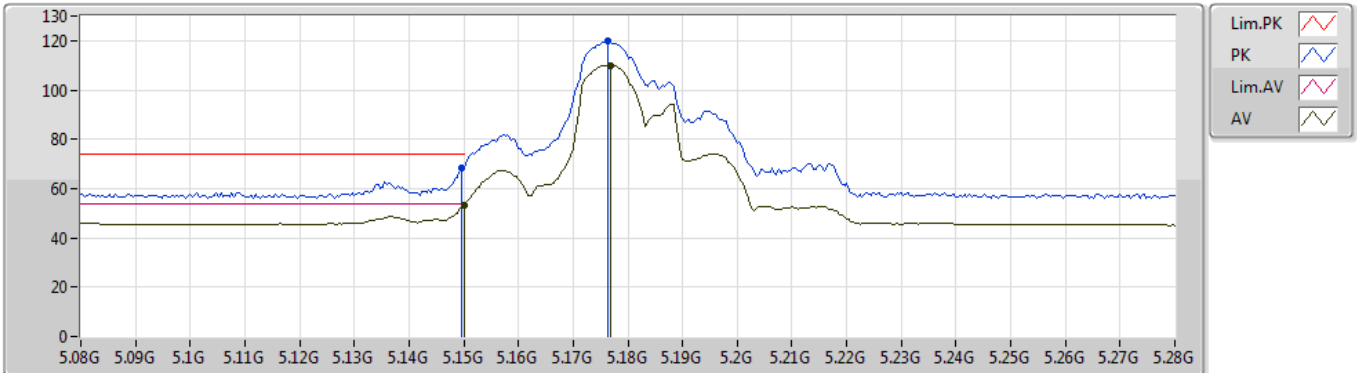
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	AV	5.1448G	53.99	54.00	-0.01	4.24	3	Vertical	310	2.14	-

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5180MHz_TX



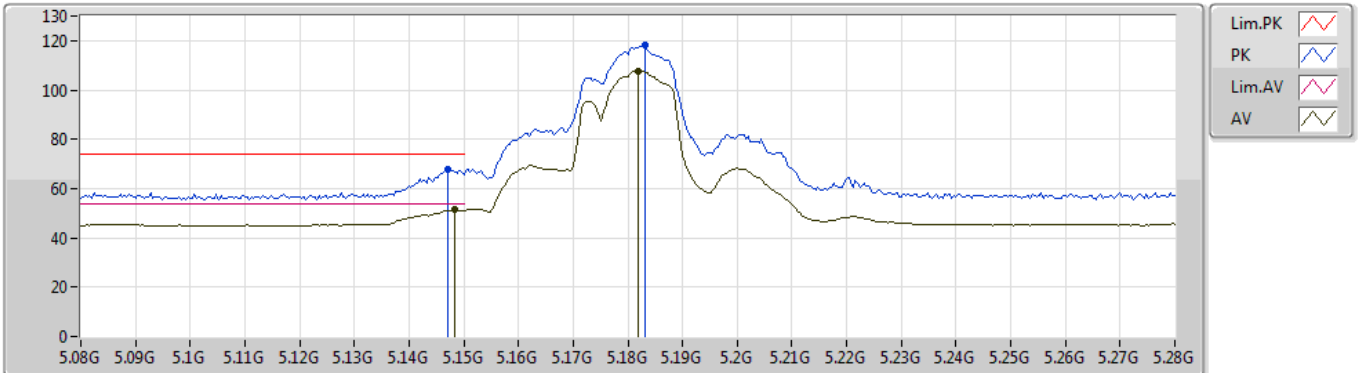
EUT_Y_4TX
Setting 21
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1496G	68.13	74.00	-5.87	4.25	3	Vertical	303	1.80	-	63.88
AV	5.15G	53.18	54.00	-0.82	4.25	3	Vertical	303	1.80	-	48.93
PK	5.1764G	119.83	Inf	-Inf	4.26	3	Vertical	303	1.80	-	115.57
AV	5.1768G	110.09	Inf	-Inf	4.26	3	Vertical	303	1.80	-	105.83

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5180MHz_TX



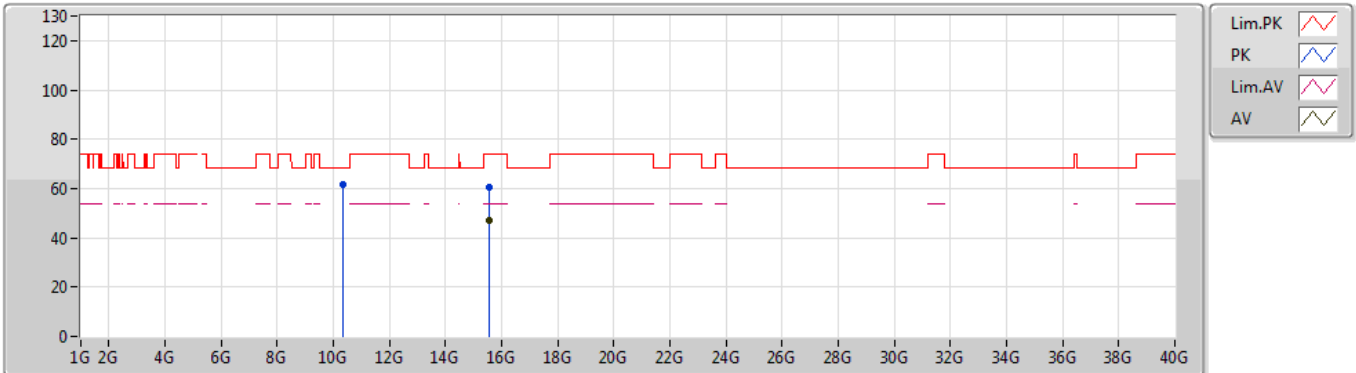
EUT_Y_4TX
Setting 21
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1472G	67.96	74.00	-6.04	4.25	3	Horizontal	328	2.92	-	63.71			
AV	5.1484G	51.41	54.00	-2.59	4.25	3	Horizontal	328	2.92	-	47.16			
PK	5.1832G	118.32	Inf	-Inf	4.26	3	Horizontal	328	2.92	-	114.06			
AV	5.182G	107.73	Inf	-Inf	4.26	3	Horizontal	328	2.92	-	103.47			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5180MHz_TX



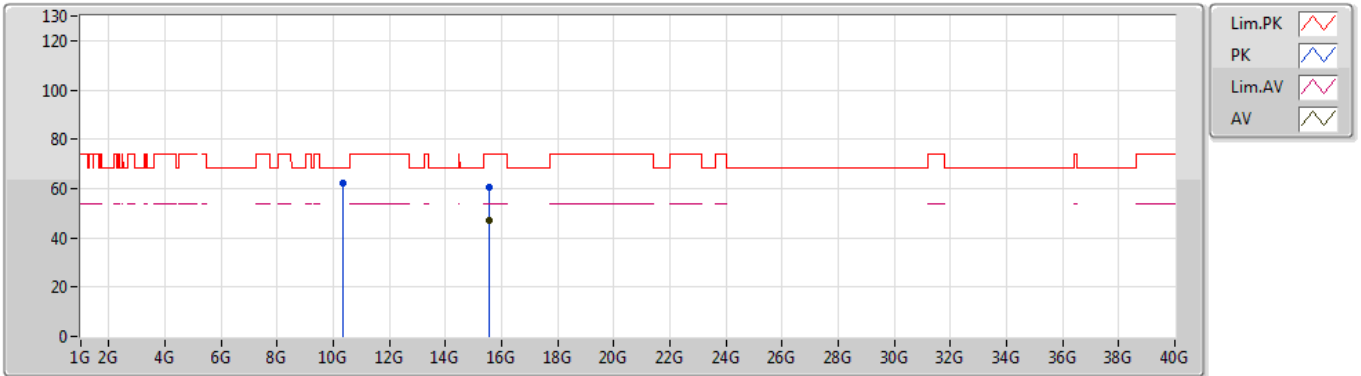
EUT_Y_4TX
Setting 21
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.35886G	61.79	68.20	-6.41	10.85	3	Vertical	336	1.93	-	50.94			
PK	15.54834G	60.39	74.00	-13.61	14.44	3	Vertical	78	1.32	-	45.95			
AV	15.5455G	46.97	54.00	-7.03	14.45	3	Vertical	78	1.32	-	32.52			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5180MHz_TX



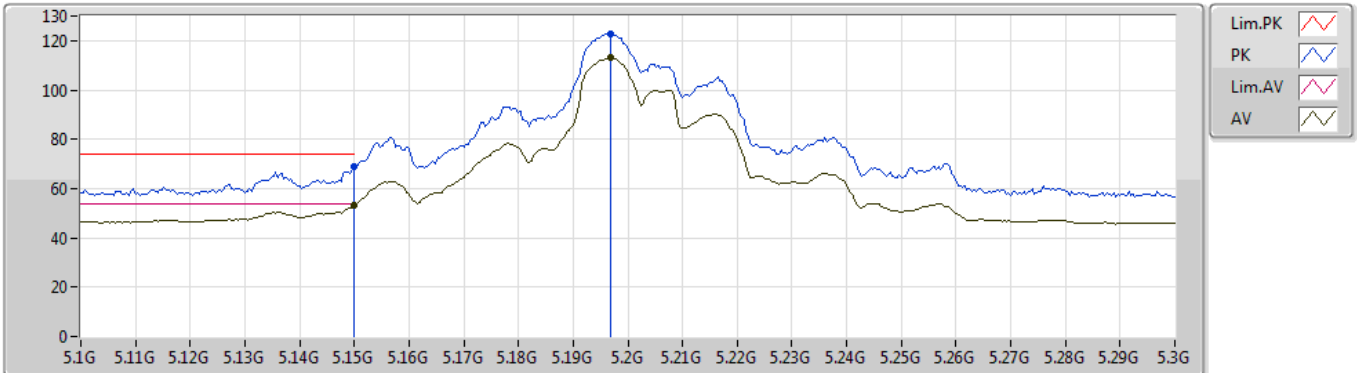
EUT_Y_4TX
Setting 21
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.3651G	62.08	68.20	-6.12	10.85	3	Horizontal	56	2.32	-	51.23			
PK	15.54282G	60.46	74.00	-13.54	14.45	3	Horizontal	139	1.50	-	46.01			
AV	15.55356G	46.91	54.00	-7.09	14.44	3	Horizontal	139	1.50	-	32.47			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5200MHz_TX



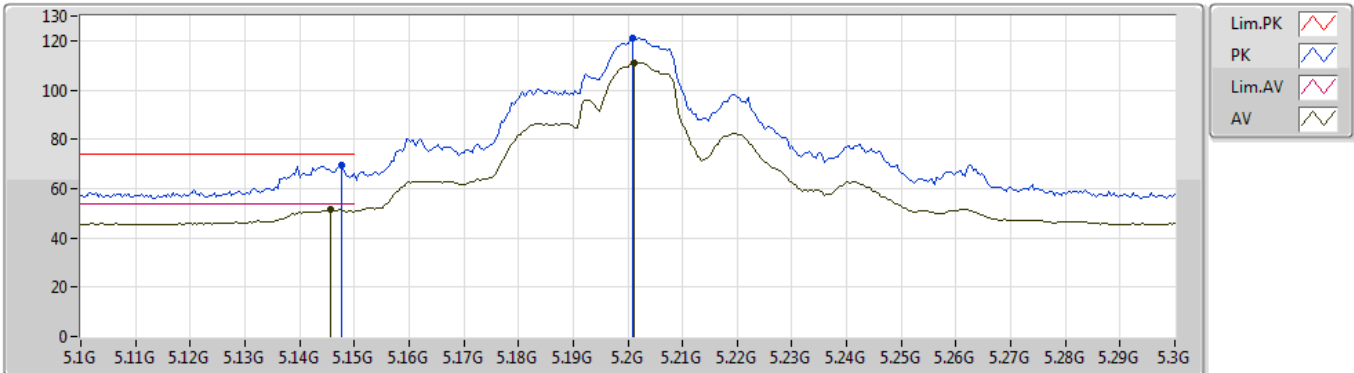
EUT_Y_4TX
Setting 25
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.15G	68.65	74.00	-5.35	4.25	3	Vertical	303	1.72	-	64.40			
AV	5.15G	53.02	54.00	-0.98	4.25	3	Vertical	303	1.72	-	48.77			
PK	5.1968G	122.90	Inf	-Inf	4.27	3	Vertical	303	1.72	-	118.63			
AV	5.1968G	113.02	Inf	-Inf	4.27	3	Vertical	303	1.72	-	108.75			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5200MHz_TX



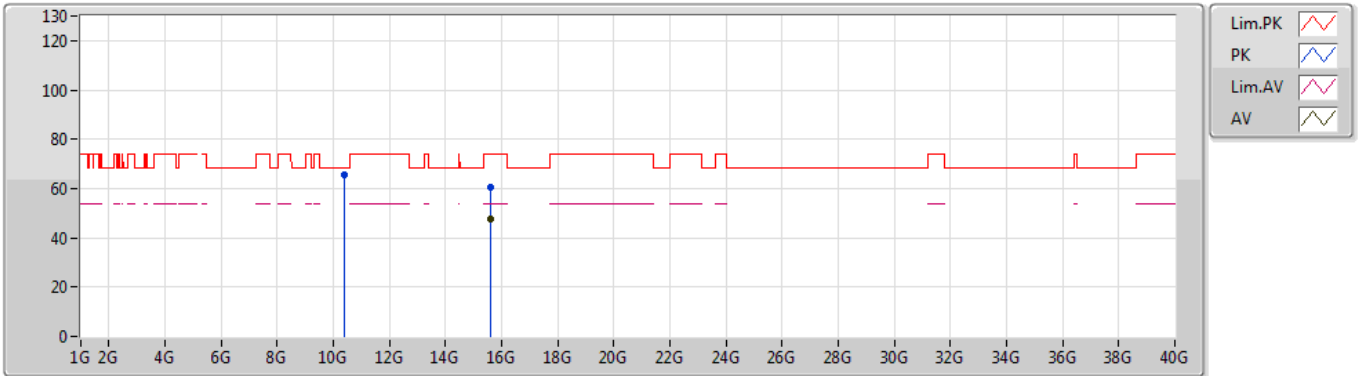
EUT_Y_4TX
Setting 25
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1476G	69.28	74.00	-4.72	4.25	3	Horizontal	329	2.88	-	65.03
AV	5.1456G	51.82	54.00	-2.18	4.25	3	Horizontal	329	2.88	-	47.57
PK	5.2008G	121.31	Inf	-Inf	4.27	3	Horizontal	329	2.88	-	117.04
AV	5.2012G	111.22	Inf	-Inf	4.27	3	Horizontal	329	2.88	-	106.95

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5200MHz_TX



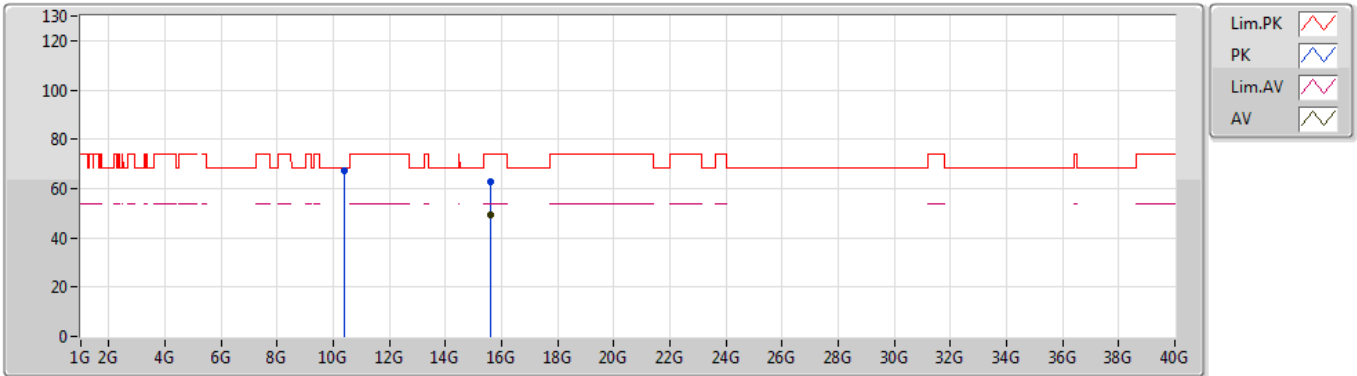
EUT_Y_4TX
Setting 25
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.4006G	65.42	68.20	-2.78	10.91	3	Vertical	337	1.97	-	54.51			
PK	15.60774G	60.57	74.00	-13.43	14.38	3	Vertical	328	1.57	-	46.19			
AV	15.6054G	47.58	54.00	-6.42	14.38	3	Vertical	328	1.57	-	33.20			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5200MHz_TX



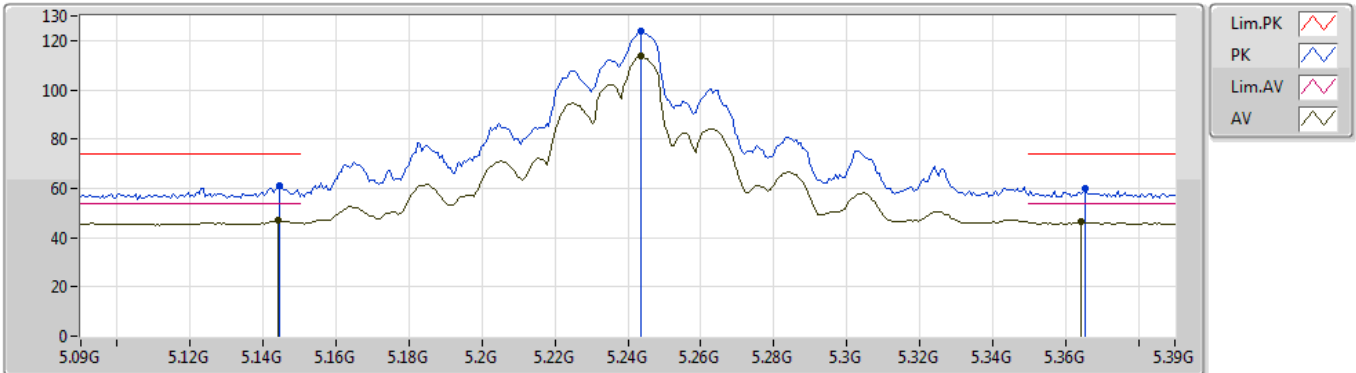
EUT_Y_4TX
Setting 25
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.40048G	67.37	68.20	-0.83	10.91	3	Horizontal	352	2.40	-	56.46			
PK	15.59496G	62.99	74.00	-11.01	14.39	3	Horizontal	320	2.14	-	48.60			
AV	15.59472G	49.32	54.00	-4.68	14.39	3	Horizontal	320	2.14	-	34.93			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5240MHz_TX



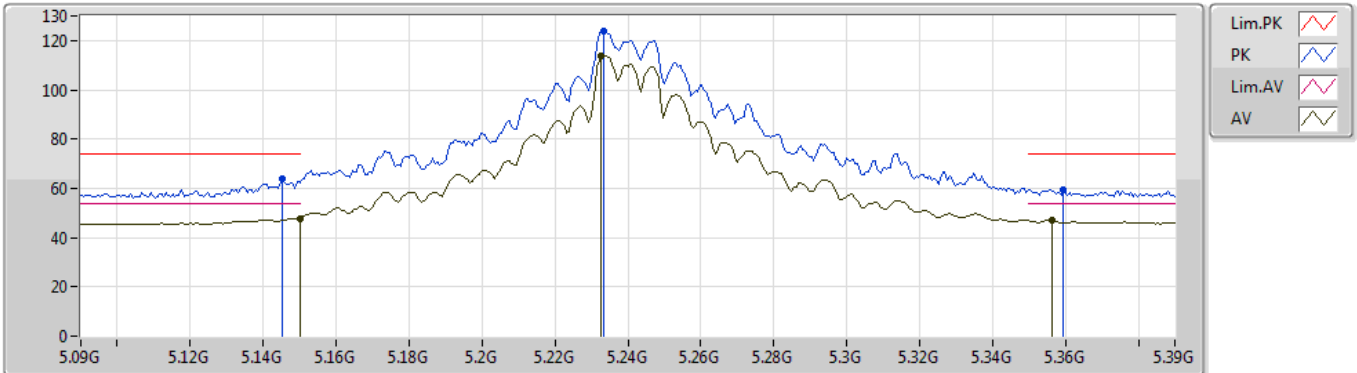
EUT_Y_4TX
Setting 26
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1446G	61.31	74.00	-12.69	4.24	3	Vertical	287	1.44	-	57.07
AV	5.144G	46.88	54.00	-7.12	4.24	3	Vertical	287	1.44	-	42.64
PK	5.2436G	123.57	Inf	-Inf	4.43	3	Vertical	287	1.44	-	119.14
AV	5.2436G	113.49	Inf	-Inf	4.43	3	Vertical	287	1.44	-	109.06
PK	5.3654G	60.22	74.00	-13.78	4.87	3	Vertical	287	1.44	-	55.35
AV	5.3642G	46.30	54.00	-7.70	4.86	3	Vertical	287	1.44	-	41.44

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5240MHz_TX



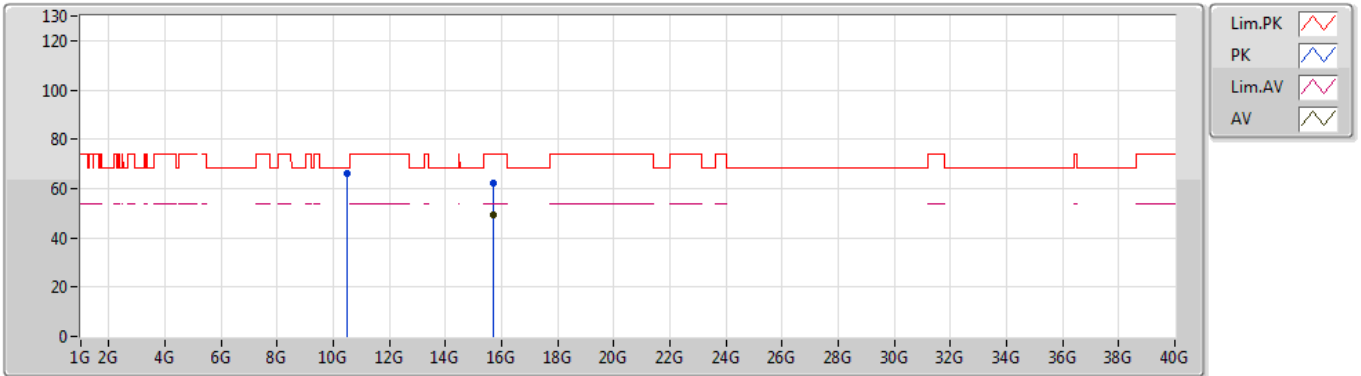
EUT Y_4TX
Setting 26
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1452G	63.79	74.00	-10.21	4.25	3	Horizontal	56	2.50	-	59.54
AV	5.15G	47.85	54.00	-6.15	4.25	3	Horizontal	56	2.50	-	43.60
PK	5.2334G	123.73	Inf	-Inf	4.39	3	Horizontal	56	2.50	-	119.34
AV	5.2328G	113.66	Inf	-Inf	4.39	3	Horizontal	56	2.50	-	109.27
PK	5.3594G	59.45	74.00	-14.55	4.85	3	Horizontal	56	2.50	-	54.60
AV	5.3564G	47.05	54.00	-6.95	4.83	3	Horizontal	56	2.50	-	42.22

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5240MHz_TX



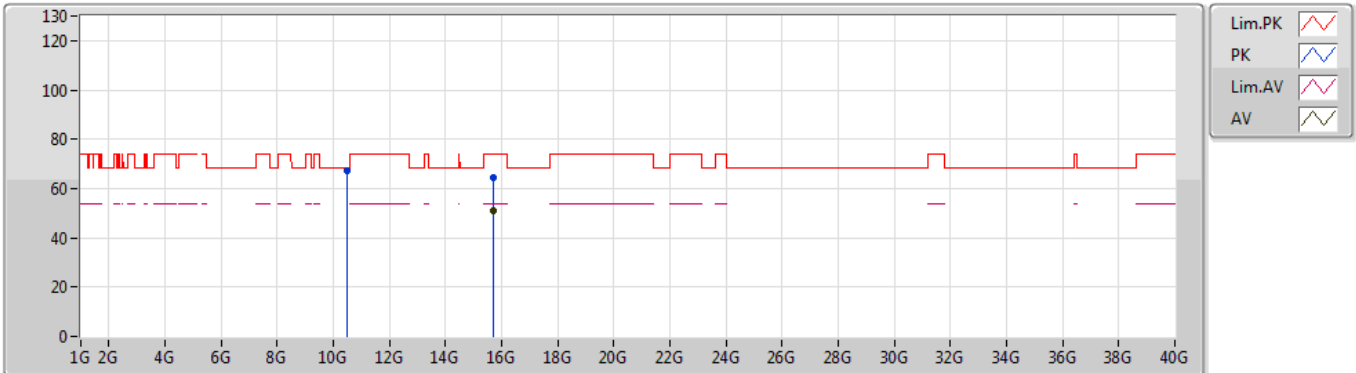
EUT Y_4TX
Setting 26
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.47436G	66.06	68.20	-2.14	11.00	3	Vertical	339	1.95	-	55.06			
PK	15.71808G	62.28	74.00	-11.72	14.24	3	Vertical	317	2.63	-	48.04			
AV	15.71856G	49.53	54.00	-4.47	14.24	3	Vertical	317	2.63	-	35.29			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5240MHz_TX



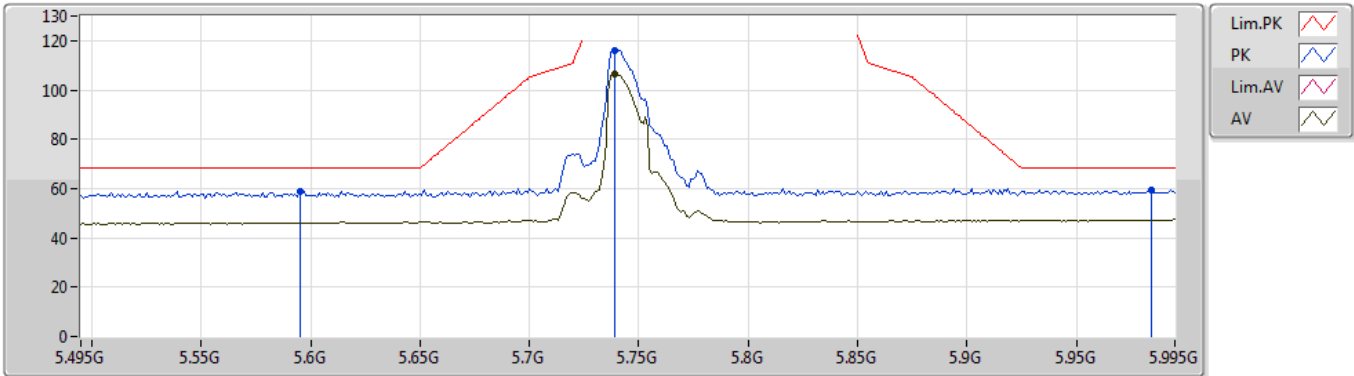
EUT Y_4TX
Setting 26
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.48018G	67.44	68.20	-0.76	11.02	3	Horizontal	354	2.33	-	56.42			
PK	15.71706G	64.16	74.00	-9.84	14.24	3	Horizontal	316	2.36	-	49.92			
AV	15.71538G	51.13	54.00	-2.87	14.24	3	Horizontal	316	2.36	-	36.89			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5745MHz_TX



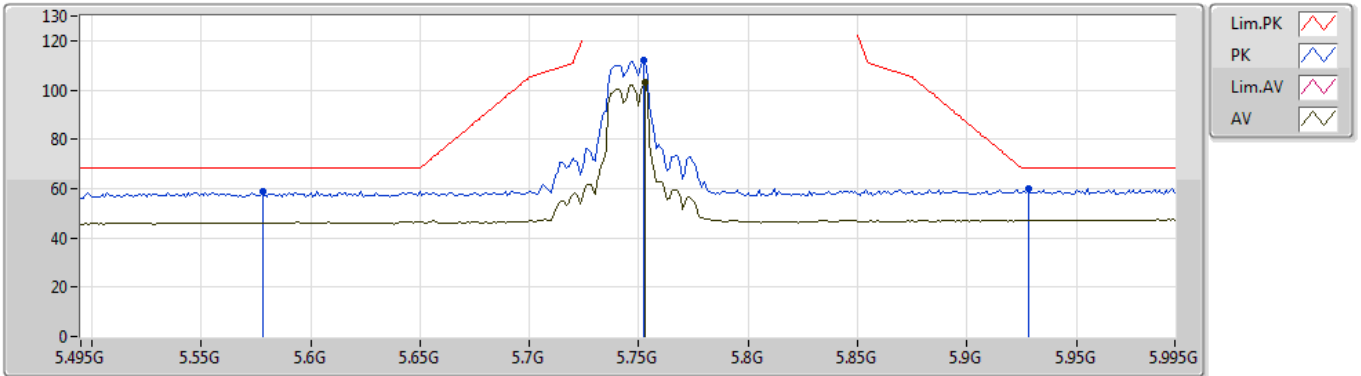
EUT_Y_4TX
Setting 19.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.595G	59.03	68.20	-9.17	5.63	3	Vertical	292	1.48	-	53.40			
PK	5.739G	116.05	Inf	-Inf	5.83	3	Vertical	292	1.48	-	110.22			
AV	5.739G	106.66	Inf	-Inf	5.83	3	Vertical	292	1.48	-	100.83			
PK	5.984G	59.36	68.20	-8.84	7.07	3	Vertical	292	1.48	-	52.29			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5745MHz_TX



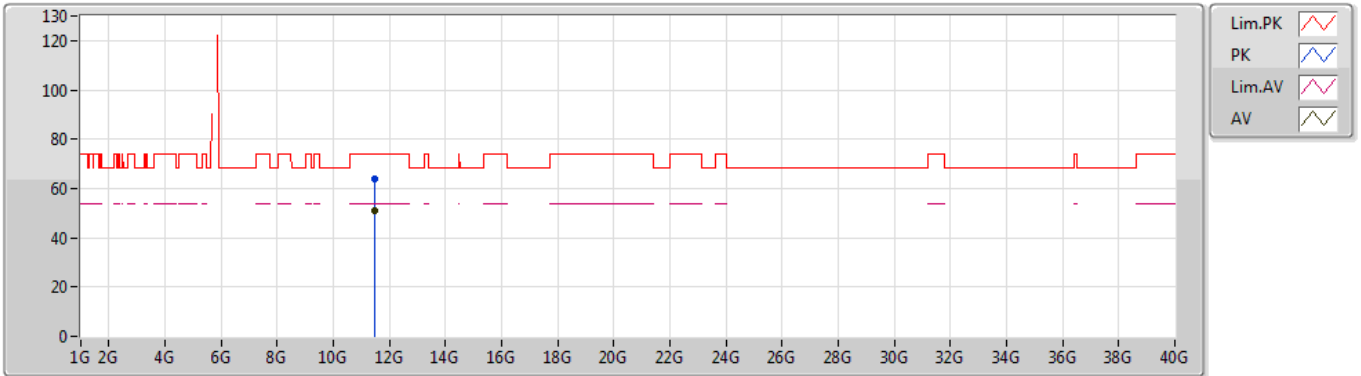
EUT_Y_4TX
Setting 19.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.578G	59.06	68.20	-9.14	5.58	3	Horizontal	43	2.34	-	53.48
PK	5.752G	111.98	Inf	-Inf	5.85	3	Horizontal	43	2.34	-	106.13
AV	5.753G	102.88	Inf	-Inf	5.86	3	Horizontal	43	2.34	-	97.02
PK	5.928G	60.03	68.20	-8.17	6.82	3	Horizontal	43	2.34	-	53.21

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5745MHz_TX



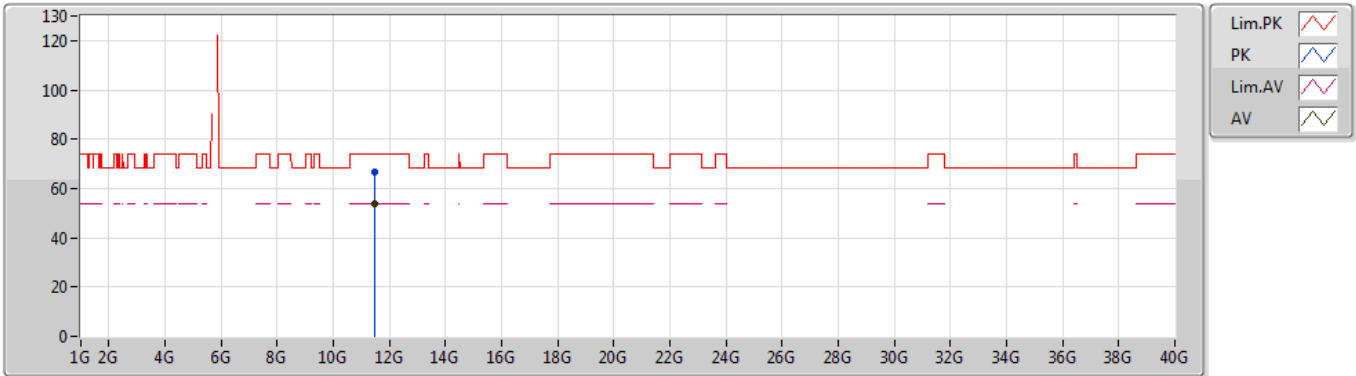
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Setting 19.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.49138G	64.08	74.00	-9.92	11.93	3	Vertical	333	2.00	-	52.15			
AV	11.48994G	50.85	54.00	-3.15	11.93	3	Vertical	333	2.00	-	38.92			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5745MHz_TX



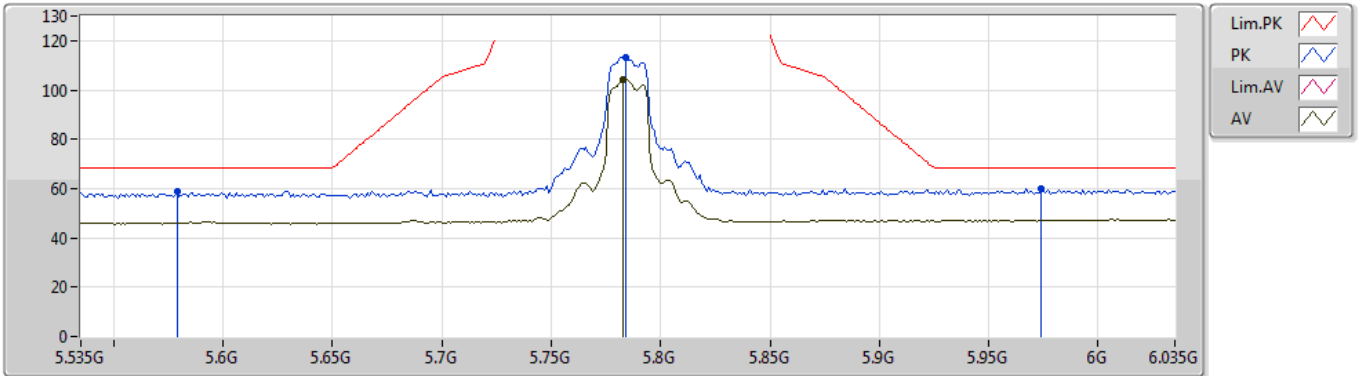
EUT Y_4TX
Setting 19.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.49126G	66.91	74.00	-7.09	11.93	3	Horizontal	12	2.26	-	54.98			
AV	11.49006G	53.63	54.00	-0.37	11.93	3	Horizontal	12	2.26	-	41.70			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5785MHz_TX



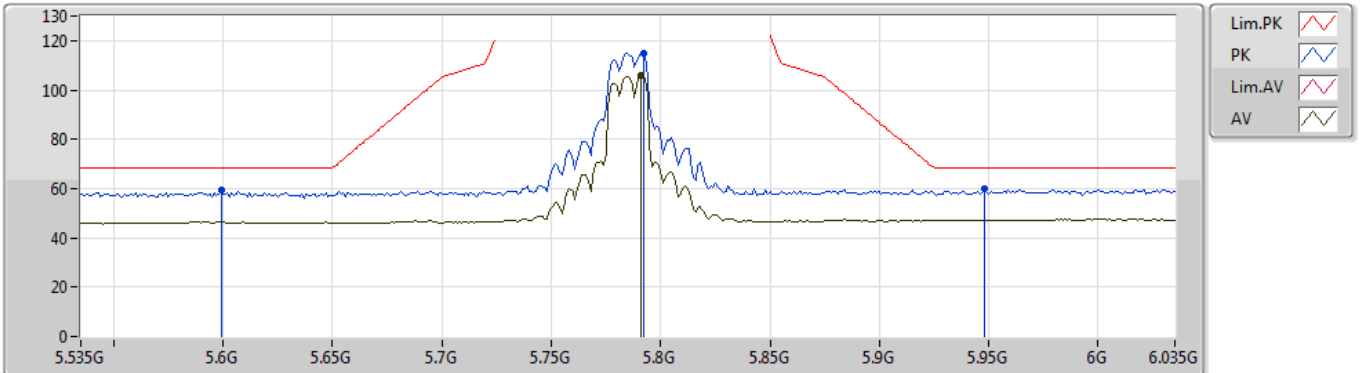
EUT_Y_4TX
Setting 19.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.579G	58.93	68.20	-9.27	5.58	3	Vertical	291	1.49	-	53.35			
PK	5.784G	113.38	Inf	-Inf	5.92	3	Vertical	291	1.49	-	107.46			
AV	5.783G	104.26	Inf	-Inf	5.92	3	Vertical	291	1.49	-	98.34			
PK	5.974G	59.83	68.20	-8.37	7.04	3	Vertical	291	1.49	-	52.79			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5785MHz_TX



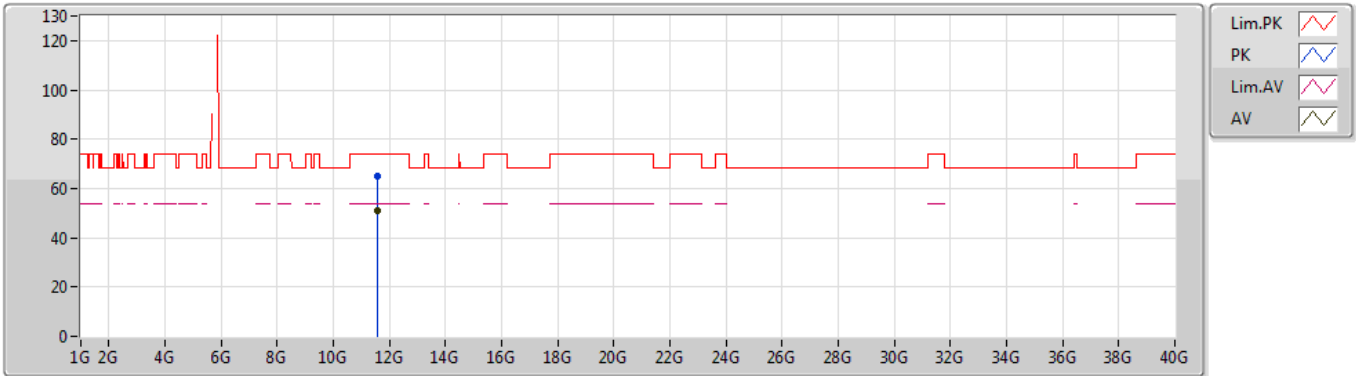
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Setting 19.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.599G	59.14	68.20	-9.06	5.64	3	Horizontal	72	2.99	-	53.50
PK	5.792G	115.13	Inf	-Inf	5.94	3	Horizontal	72	2.99	-	109.19
AV	5.791G	105.89	Inf	-Inf	5.94	3	Horizontal	72	2.99	-	99.95
PK	5.948G	59.89	68.20	-8.31	6.91	3	Horizontal	72	2.99	-	52.98

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5785MHz_TX



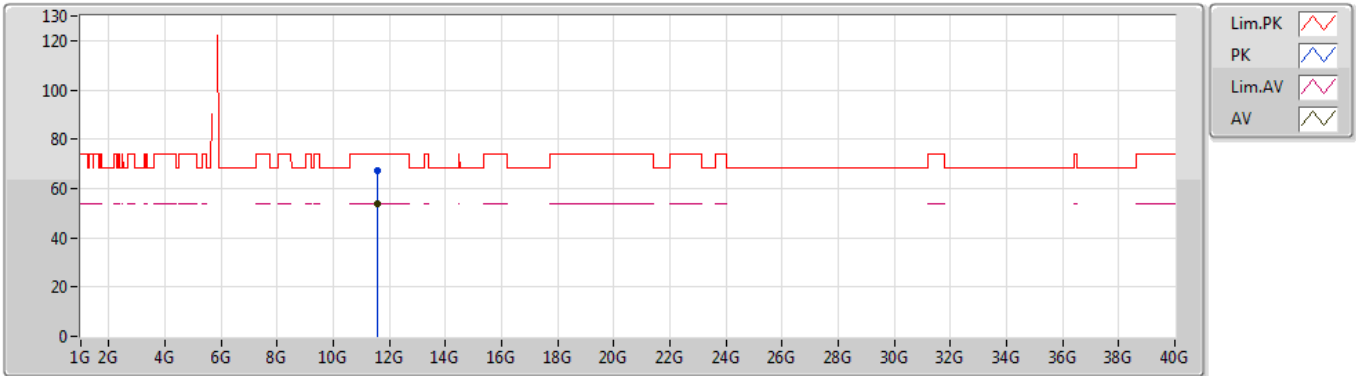
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Setting 19.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.5724G	64.77	74.00	-9.23	11.95	3	Vertical	333	2.00	-	52.82			
AV	11.57198G	51.08	54.00	-2.92	11.95	3	Vertical	333	2.00	-	39.13			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5785MHz_TX



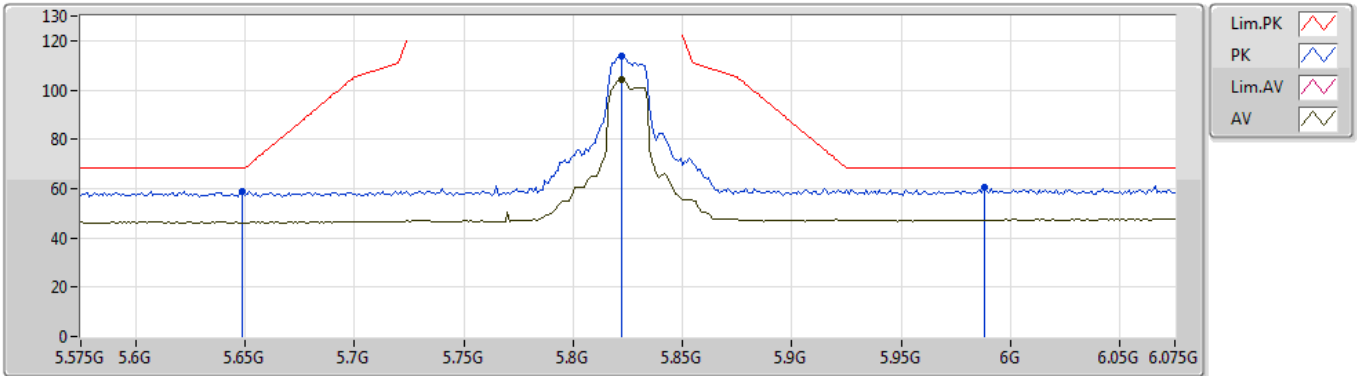
EUT Y_4TX
Setting 19.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.57024G	67.51	74.00	-6.49	11.95	3	Horizontal	19	2.22	-	55.56			
AV	11.5703G	53.95	54.00	-0.05	11.95	3	Horizontal	19	2.22	-	42.00			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5825MHz_TX



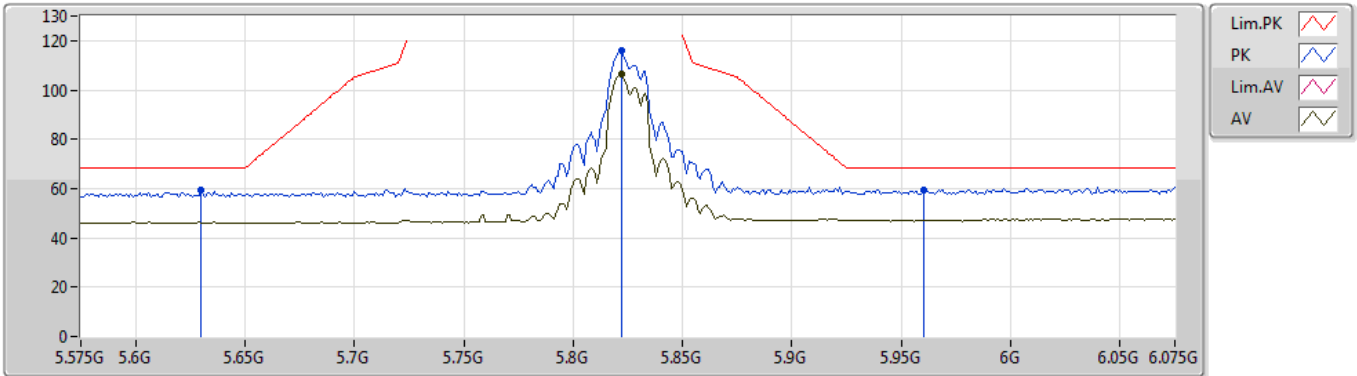
EUT Y_4TX
Setting 19.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.649G	58.92	68.20	-9.28	5.69	3	Vertical	301	1.64	-	53.23
PK	5.822G	114.01	Inf	-Inf	6.12	3	Vertical	301	1.64	-	107.89
AV	5.822G	104.36	Inf	-Inf	6.12	3	Vertical	301	1.64	-	98.24
PK	5.988G	60.72	68.20	-7.48	7.09	3	Vertical	301	1.64	-	53.63

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5825MHz_TX



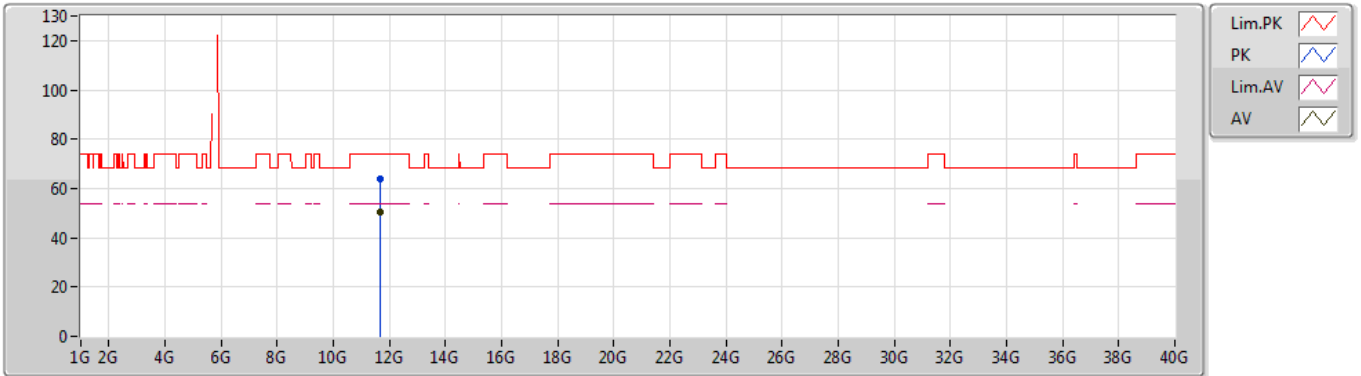
EUT_Y_4TX
Setting 19.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.63G	59.38	68.20	-8.82	5.67	3	Horizontal	49	2.07	-	53.71			
PK	5.822G	115.83	Inf	-Inf	6.12	3	Horizontal	49	2.07	-	109.71			
AV	5.822G	106.30	Inf	-Inf	6.12	3	Horizontal	49	2.07	-	100.18			
PK	5.96G	59.54	68.20	-8.66	6.97	3	Horizontal	49	2.07	-	52.57			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5825MHz_TX



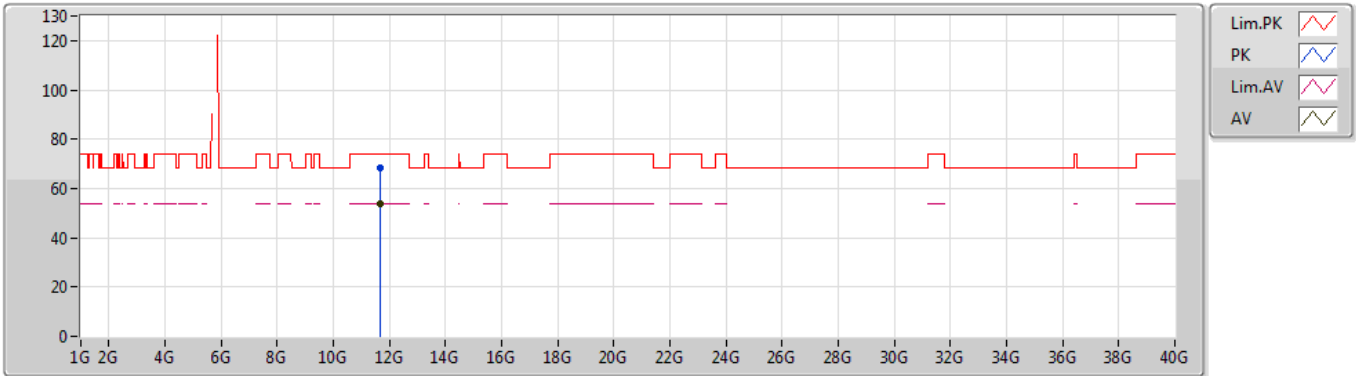
EUT Y_4TX
Setting 19.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.65114G	63.67	74.00	-10.33	11.99	3	Vertical	334	2.02	-	51.68			
AV	11.65012G	50.25	54.00	-3.75	11.99	3	Vertical	334	2.02	-	38.26			

802.11a_Nss1,(6Mbps)_4TX

14/09/2019

5825MHz_TX



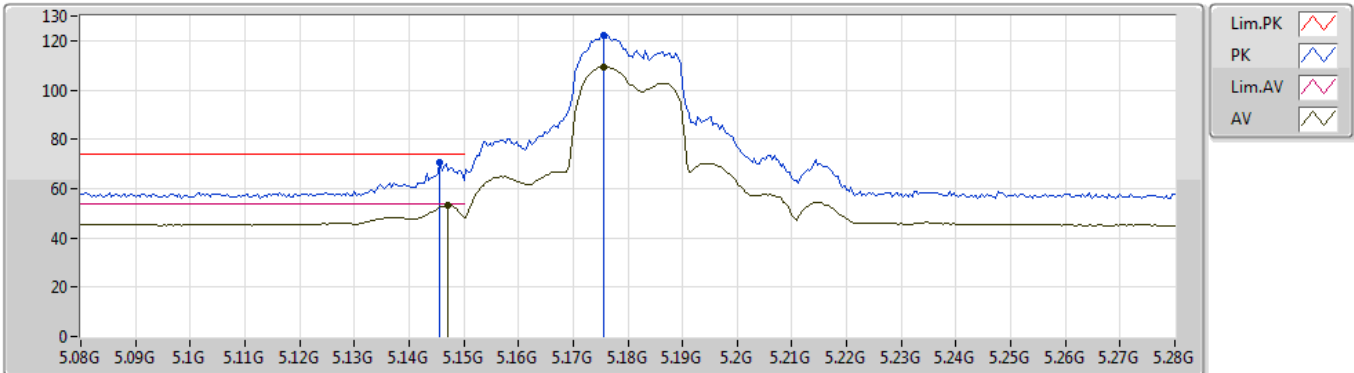
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Setting 19.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.65102G	68.17	74.00	-5.83	11.99	3	Horizontal	23	2.20	-	56.18			
AV	11.65012G	53.73	54.00	-0.27	11.99	3	Horizontal	23	2.20	-	41.74			

802.11ax HEW20_Nss1,(MCS0)_4TX

15/09/2019

5180MHz_TX



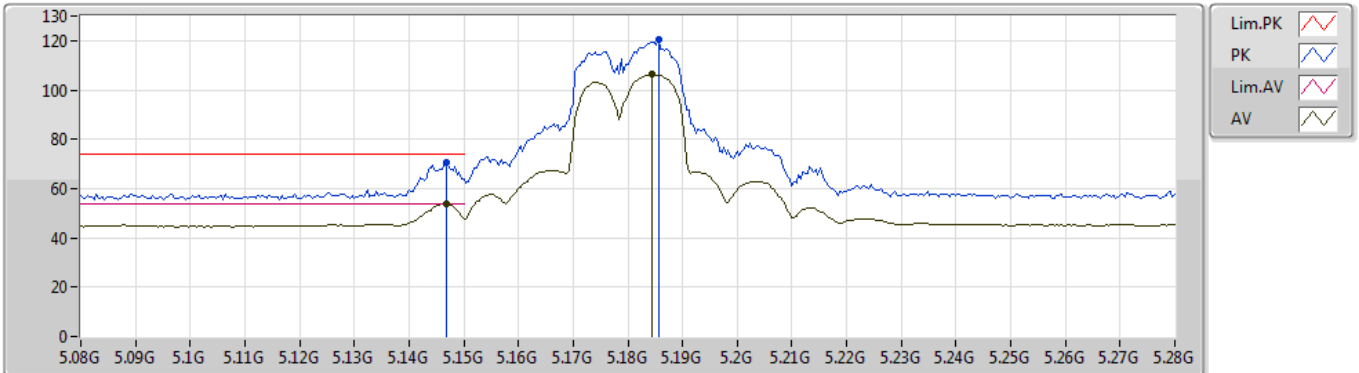
EUT_Y_4TX
Setting 20
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1456G	70.38	74.00	-3.62	4.25	3	Vertical	300	2.29	-	66.13
AV	5.1472G	53.27	54.00	-0.73	4.25	3	Vertical	300	2.29	-	49.02
PK	5.1756G	122.03	Inf	-Inf	4.26	3	Vertical	300	2.29	-	117.77
AV	5.1756G	109.30	Inf	-Inf	4.26	3	Vertical	300	2.29	-	105.04

802.11ax HEW20_Nss1,(MCS0)_4TX

15/09/2019

5180MHz_TX



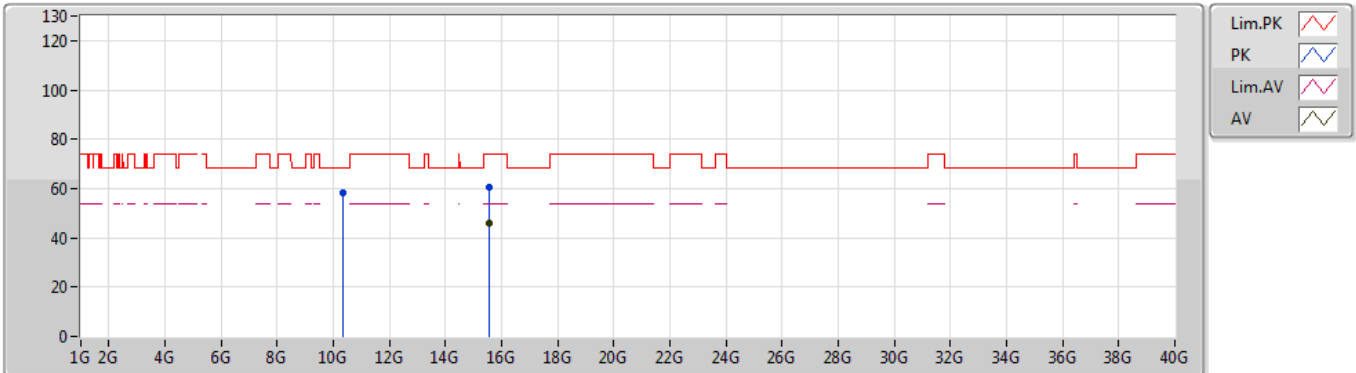
EUT Y_4TX
Setting 20
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1468G	70.49	74.00	-3.51	4.25	3	Horizontal	304	2.18	-	66.24			
AV	5.1468G	53.71	54.00	-0.29	4.25	3	Horizontal	304	2.18	-	49.46			
PK	5.1856G	120.21	Inf	-Inf	4.27	3	Horizontal	304	2.18	-	115.94			
AV	5.1844G	106.38	Inf	-Inf	4.26	3	Horizontal	304	2.18	-	102.12			

802.11ax HEW20_Nss1,(MCS0)_4TX

15/09/2019

5180MHz_TX



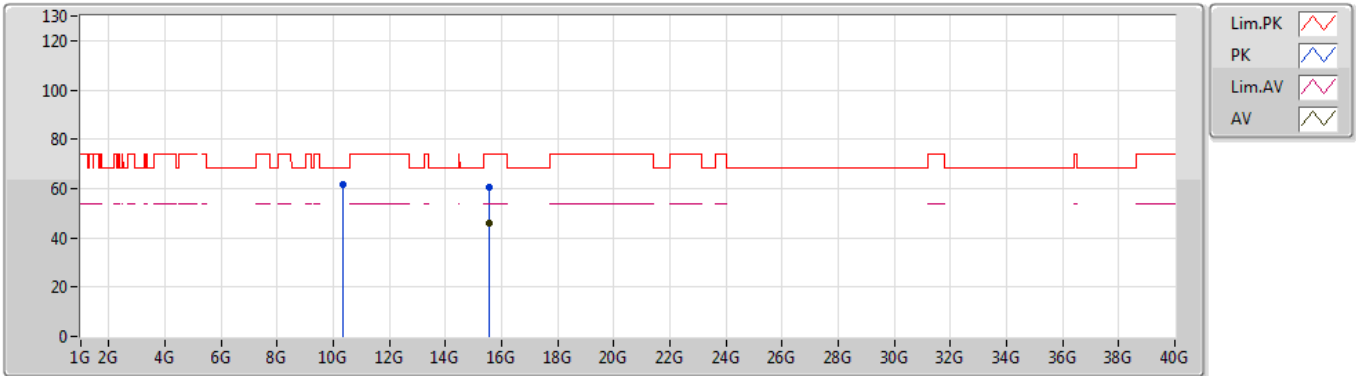
EUT_Y_4TX
Setting 20
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.36036G	58.46	68.20	-9.74	10.85	3	Vertical	334	2.00	-	47.61			
PK	15.54012G	60.64	74.00	-13.36	14.46	3	Vertical	142	1.37	-	46.18			
AV	15.54336G	46.20	54.00	-7.80	14.45	3	Vertical	142	1.37	-	31.75			

802.11ax HEW20_Nss1,(MCS0)_4TX

15/09/2019

5180MHz_TX



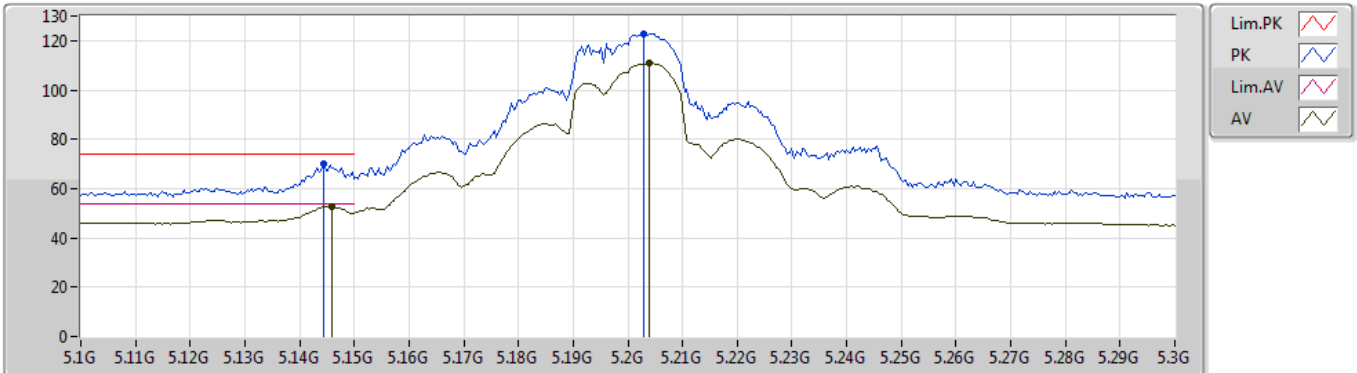
EUT Y_4TX
Setting 20
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	10.35718G	61.72	68.20	-6.48	10.85	3	Horizontal	275	1.06	-	50.87
PK	15.5502G	60.42	74.00	-13.58	14.44	3	Horizontal	180	2.84	-	45.98
AV	15.5445G	46.20	54.00	-7.80	14.45	3	Horizontal	180	2.84	-	31.75

802.11ax HEW20_Nss1,(MCS0)_4TX

15/09/2019

5200MHz_TX



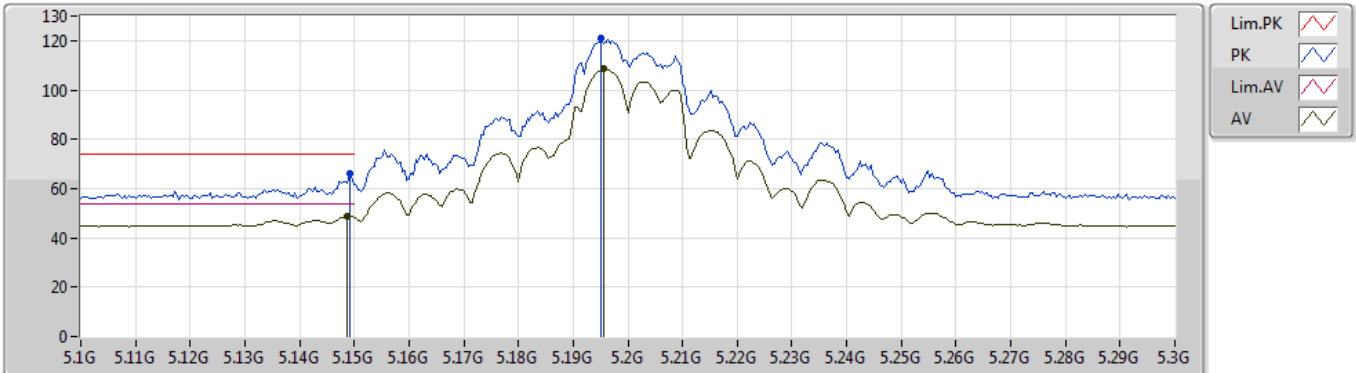
EUT Y_4TX
Setting 24
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1444G	70.16	74.00	-3.84	4.24	3	Vertical	288	2.22	-	65.92
AV	5.146G	52.72	54.00	-1.28	4.25	3	Vertical	288	2.22	-	48.47
PK	5.2028G	122.89	Inf	-Inf	4.28	3	Vertical	288	2.22	-	118.61
AV	5.204G	110.86	Inf	-Inf	4.28	3	Vertical	288	2.22	-	106.58

802.11ax HEW20_Nss1,(MCS0)_4TX

15/09/2019

5200MHz_TX



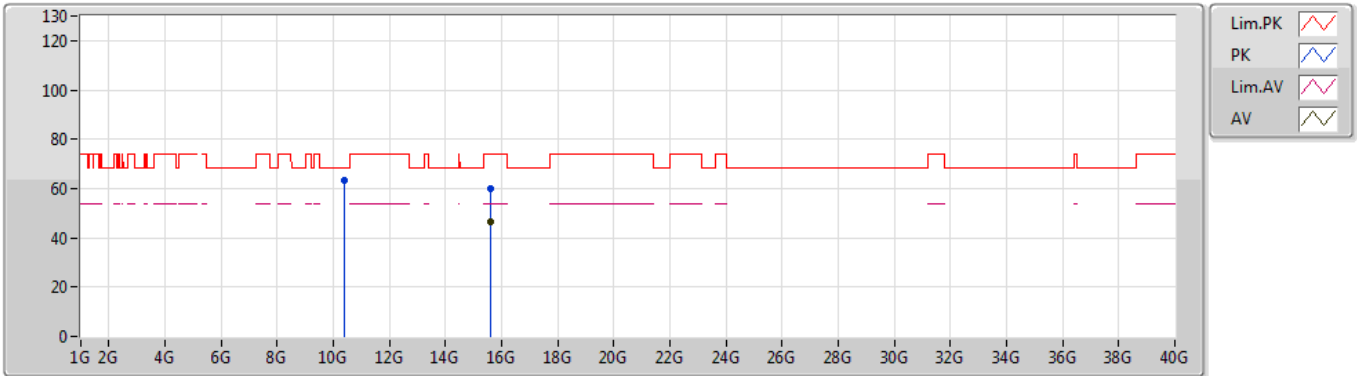
EUT_Y_4TX
Setting 24
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1492G	66.12	74.00	-7.88	4.25	3	Horizontal	336	1.16	-	61.87
AV	5.1488G	48.80	54.00	-5.20	4.25	3	Horizontal	336	1.16	-	44.55
PK	5.1952G	120.92	Inf	-Inf	4.27	3	Horizontal	336	1.16	-	116.65
AV	5.1956G	108.46	Inf	-Inf	4.27	3	Horizontal	336	1.16	-	104.19

802.11ax HEW20_Nss1,(MCS0)_4TX

15/09/2019

5200MHz_TX



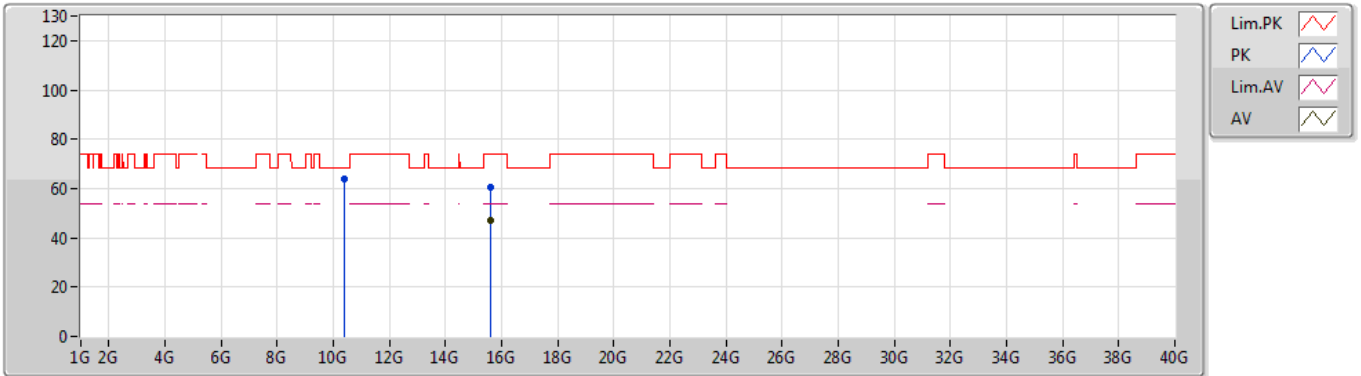
EUT Y_4TX
Setting 24
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.40282G	63.59	68.20	-4.61	10.91	3	Vertical	194	2.25	-	52.68			
PK	15.60034G	60.03	74.00	-13.97	14.39	3	Vertical	232	2.31	-	45.64			
AV	15.60096G	46.39	54.00	-7.61	14.38	3	Vertical	232	2.31	-	32.01			

802.11ax HEW20_Nss1,(MCS0)_4TX

15/09/2019

5200MHz_TX



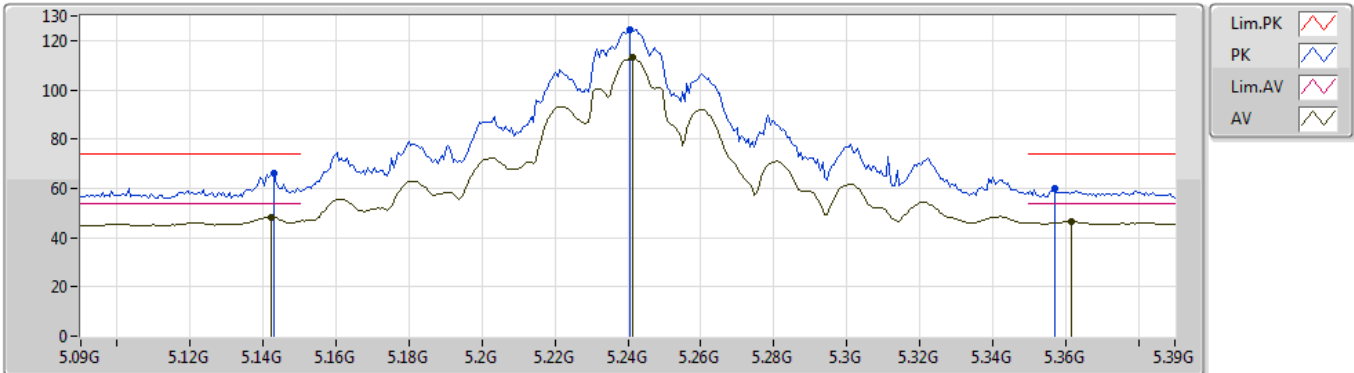
EUT Y_4TX
Setting 24
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.40174G	64.11	68.20	-4.09	10.91	3	Horizontal	55	2.35	-	53.20			
PK	15.60138G	60.54	74.00	-13.46	14.38	3	Horizontal	323	1.48	-	46.16			
AV	15.6015G	47.25	54.00	-6.75	14.38	3	Horizontal	323	1.48	-	32.87			

802.11ax HEW20_Nss1,(MCS0)_4TX

15/09/2019

5240MHz_TX



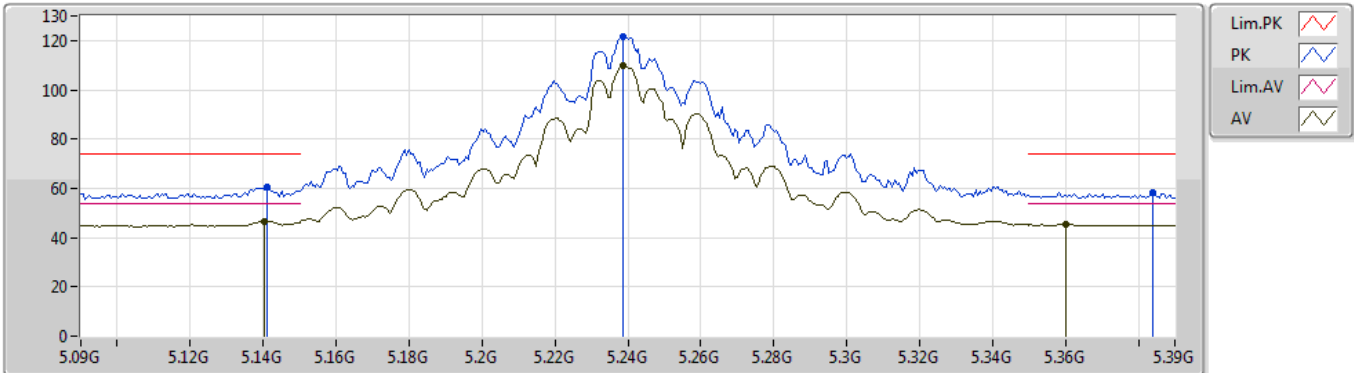
EUT Y_4TX
Setting 26
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1428G	65.99	74.00	-8.01	4.24	3	Vertical	293	1.58	-	61.75
AV	5.1422G	48.43	54.00	-5.57	4.24	3	Vertical	293	1.58	-	44.19
PK	5.2406G	124.55	Inf	-Inf	4.42	3	Vertical	293	1.58	-	120.13
AV	5.2412G	112.95	Inf	-Inf	4.42	3	Vertical	293	1.58	-	108.53
PK	5.357G	59.82	74.00	-14.18	4.83	3	Vertical	293	1.58	-	54.99
AV	5.3618G	46.65	54.00	-7.35	4.86	3	Vertical	293	1.58	-	41.79

802.11ax HEW20_Nss1,(MCS0)_4TX

15/09/2019

5240MHz_TX



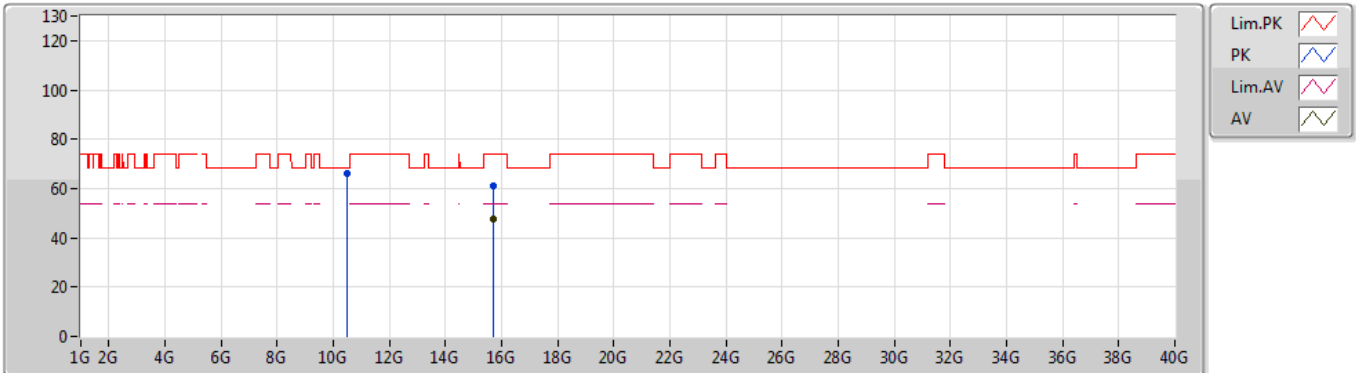
EUT Y_4TX
Setting 26
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.141G	60.42	74.00	-13.58	4.24	3	Horizontal	338	1.42	-	56.18			
AV	5.140G	46.77	54.00	-7.23	4.24	3	Horizontal	338	1.42	-	42.53			
PK	5.2388G	121.55	Inf	-Inf	4.42	3	Horizontal	338	1.42	-	117.13			
AV	5.2388G	109.87	Inf	-Inf	4.42	3	Horizontal	338	1.42	-	105.45			
PK	5.384G	58.09	74.00	-15.91	4.93	3	Horizontal	338	1.42	-	53.16			
AV	5.36G	45.28	54.00	-8.72	4.85	3	Horizontal	338	1.42	-	40.43			

802.11ax HEW20_Nss1,(MCS0)_4TX

15/09/2019

5240MHz_TX



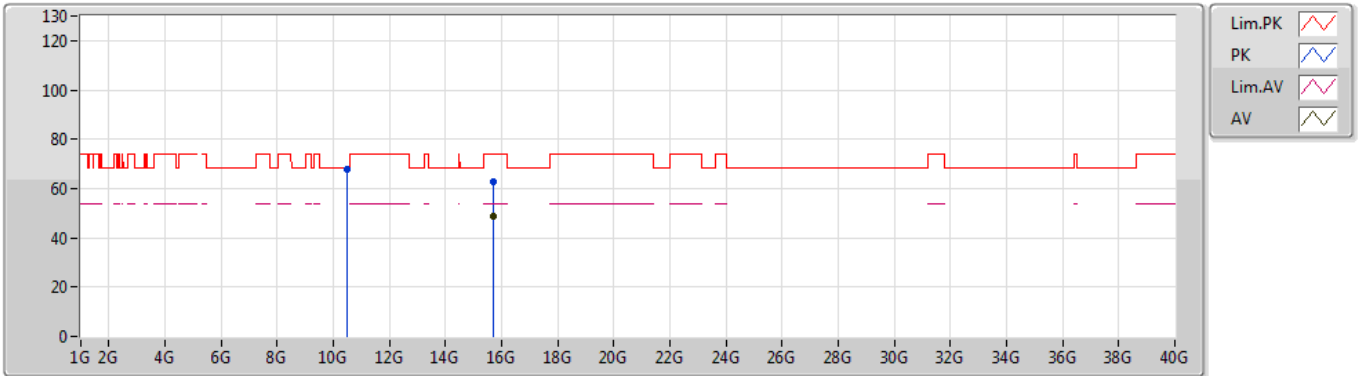
EUT Y_4TX
Setting 26
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.47832G	66.35	68.20	-1.85	11.01	3	Vertical	339	2.02	-	55.34			
PK	15.7287G	60.99	74.00	-13.01	14.23	3	Vertical	33	1.63	-	46.76			
AV	15.72844G	47.38	54.00	-6.62	14.23	3	Vertical	33	1.63	-	33.15			

802.11ax HEW20_Nss1,(MCS0)_4TX

15/09/2019

5240MHz_TX



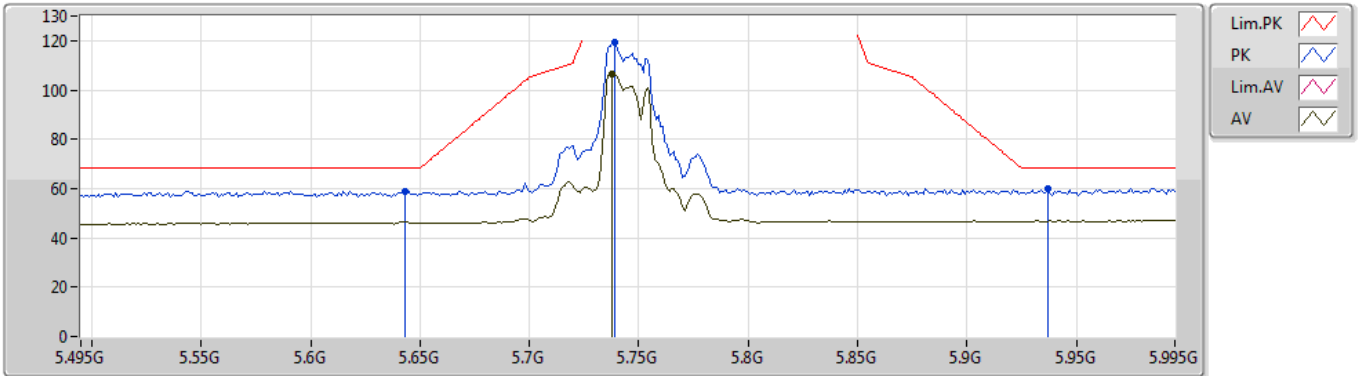
EUT Y_4TX
Setting 26
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.48588G	67.98	68.20	-0.22	11.02	3	Horizontal	356	2.47	-	56.96			
PK	15.71718G	62.48	74.00	-11.52	14.24	3	Horizontal	318	1.50	-	48.24			
AV	15.71628G	48.83	54.00	-5.17	14.24	3	Horizontal	318	1.50	-	34.59			

802.11ax HEW20_Nss1,(MCS0)_4TX

16/09/2019

5745MHz_TX



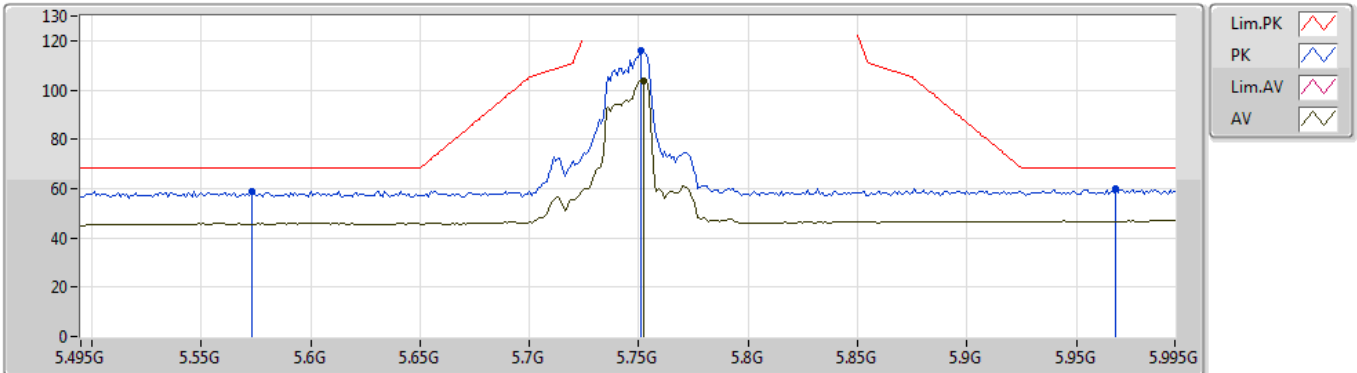
EUT Y_4TX
Setting 20.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.643G	59.06	68.20	-9.14	5.68	3	Vertical	291	1.53	-	53.38
PK	5.739G	119.22	Inf	-Inf	5.83	3	Vertical	291	1.53	-	113.39
AV	5.738G	106.69	Inf	-Inf	5.83	3	Vertical	291	1.53	-	100.86
PK	5.937G	60.15	68.20	-8.05	6.86	3	Vertical	291	1.53	-	53.29

802.11ax HEW20_Nss1,(MCS0)_4TX

16/09/2019

5745MHz_TX



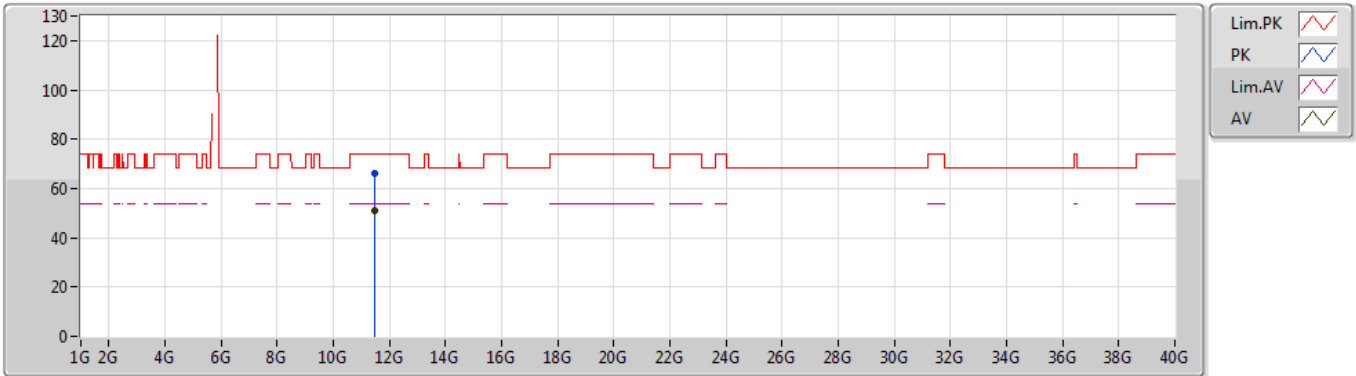
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Setting 20.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.573G	58.83	68.20	-9.37	5.58	3	Horizontal	350	1.19	-	53.25			
PK	5.751G	116.18	Inf	-Inf	5.85	3	Horizontal	350	1.19	-	110.33			
AV	5.752G	103.69	Inf	-Inf	5.85	3	Horizontal	350	1.19	-	97.84			
PK	5.968G	60.16	68.20	-8.04	7.01	3	Horizontal	350	1.19	-	53.15			

802.11ax HEW20_Nss1,(MCS0)_4TX

16/09/2019

5745MHz_TX



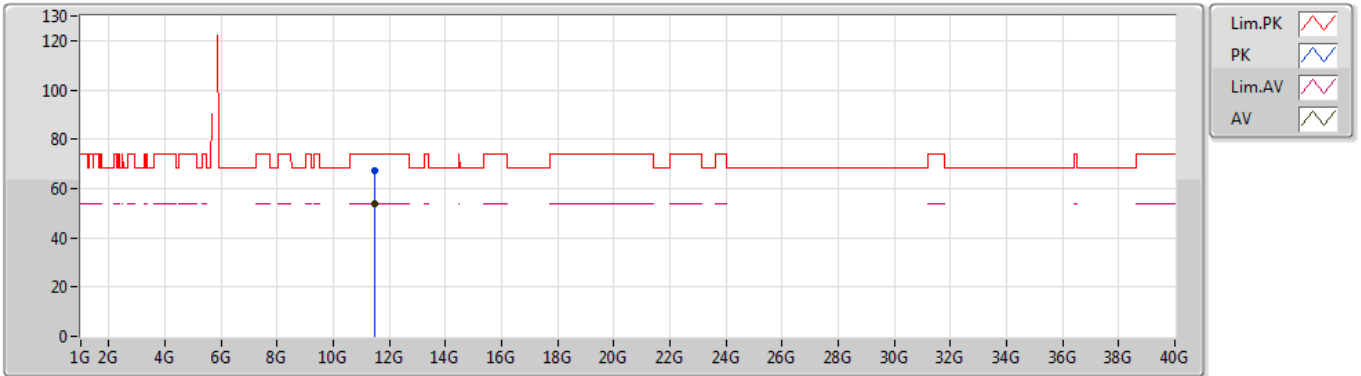
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Setting 20.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.49408G	65.86	74.00	-8.14	11.93	3	Vertical	336	1.96	-	53.93			
AV	11.49012G	51.23	54.00	-2.77	11.93	3	Vertical	336	1.96	-	39.30			

802.11ax HEW20_Nss1,(MCS0)_4TX

16/09/2019

5745MHz_TX



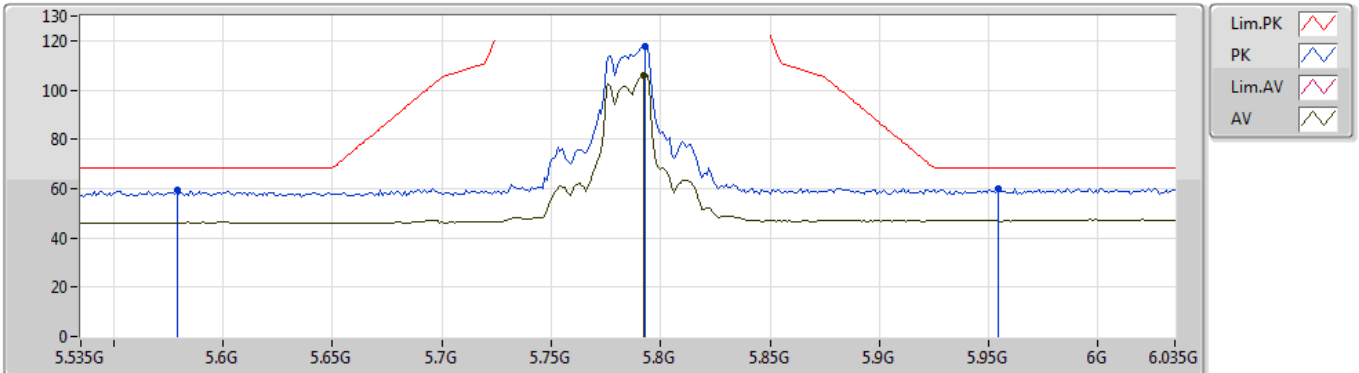
EUT Y_4TX
Setting 20.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.48772G	67.34	74.00	-6.66	11.93	3	Horizontal	12	2.32	-	55.41			
AV	11.4897G	53.74	54.00	-0.26	11.93	3	Horizontal	12	2.32	-	41.81			

802.11ax HEW20_Nss1,(MCS0)_4TX

16/09/2019

5785MHz_TX



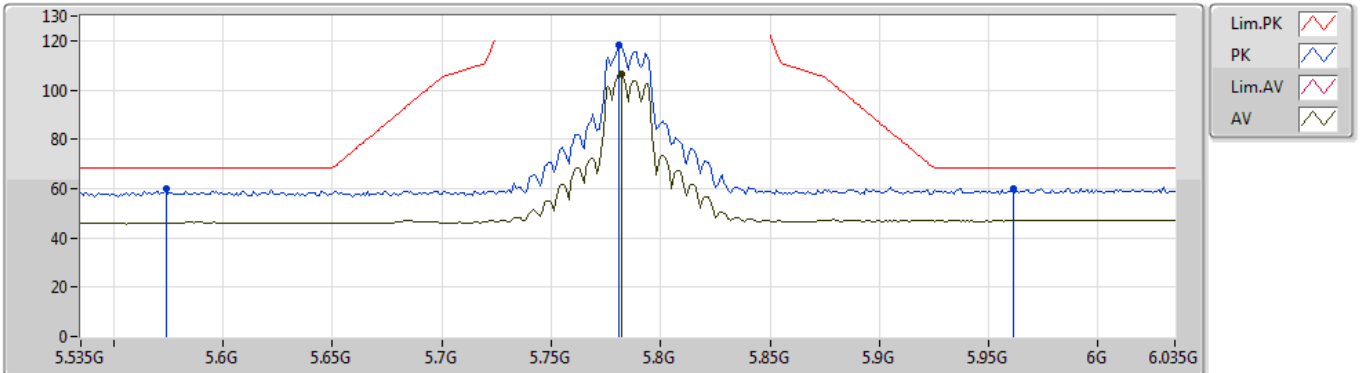
EUT Y_4TX
Setting 20.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.579G	59.21	68.20	-8.99	5.58	3	Vertical	42	2.22	-	53.63			
PK	5.793G	117.71	Inf	-Inf	5.95	3	Vertical	42	2.22	-	111.76			
AV	5.792G	105.88	Inf	-Inf	5.94	3	Vertical	42	2.22	-	99.94			
PK	5.954G	60.00	68.20	-8.20	6.94	3	Vertical	42	2.22	-	53.06			

802.11ax HEW20_Nss1,(MCS0)_4TX

16/09/2019

5785MHz_TX



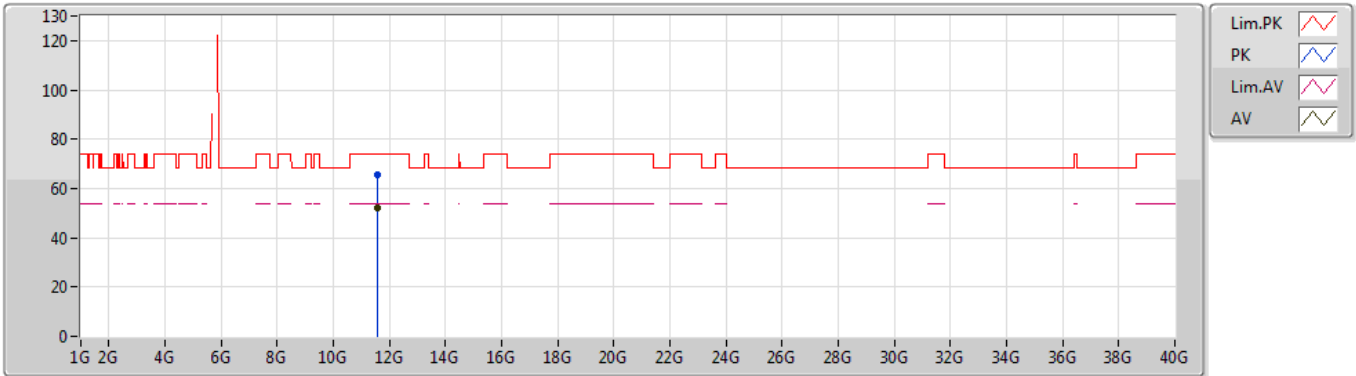
EUT_Y_4TX
Setting 20.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.574G	59.82	68.20	-8.38	5.58	3	Horizontal	60	2.64	-	54.24			
PK	5.781G	118.51	Inf	-Inf	5.91	3	Horizontal	60	2.64	-	112.60			
AV	5.782G	106.42	Inf	-Inf	5.91	3	Horizontal	60	2.64	-	100.51			
PK	5.961G	60.13	68.20	-8.07	6.97	3	Horizontal	60	2.64	-	53.16			

802.11ax HEW20_Nss1,(MCS0)_4TX

16/09/2019

5785MHz_TX



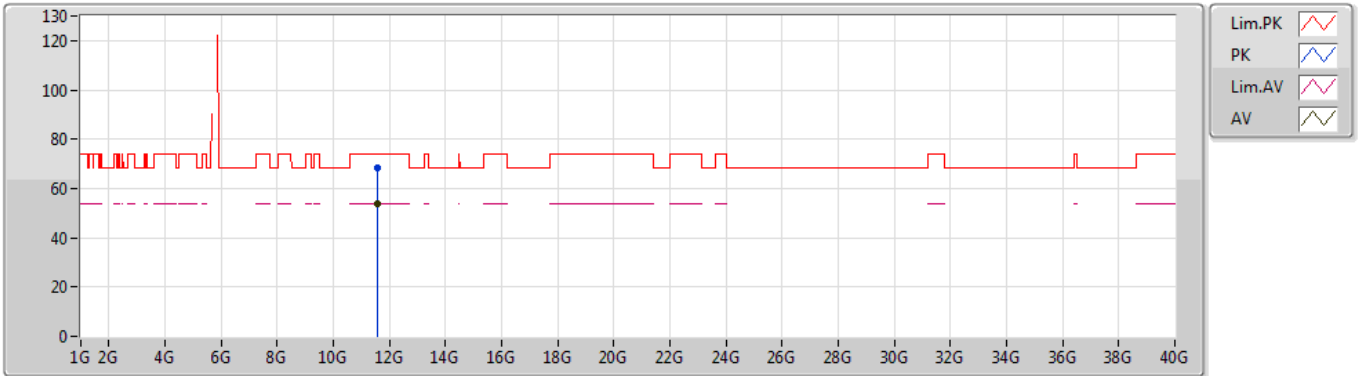
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Setting 20.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.56688G	65.74	74.00	-8.26	11.95	3	Vertical	356	2.63	-	53.79			
AV	11.56988G	51.85	54.00	-2.15	11.95	3	Vertical	356	2.63	-	39.90			

802.11ax HEW20_Nss1,(MCS0)_4TX

16/09/2019

5785MHz_TX



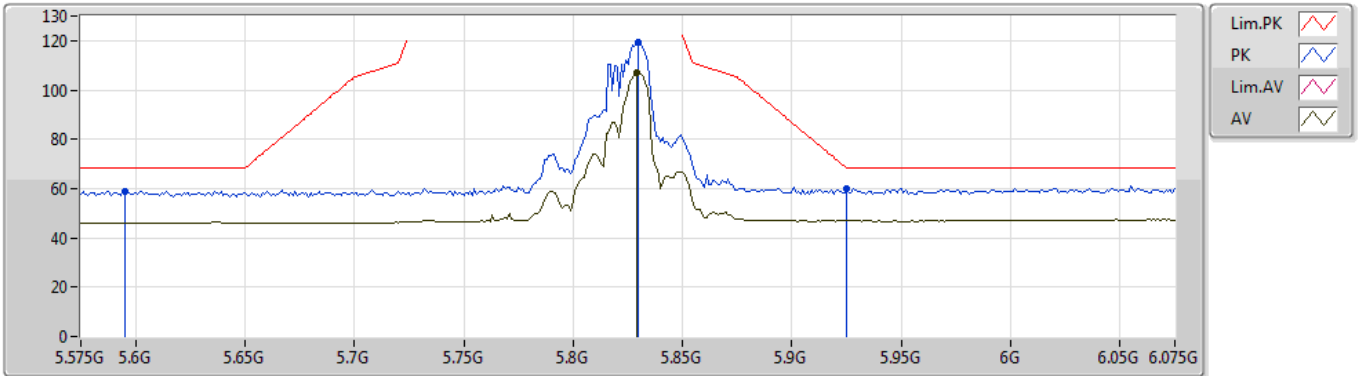
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Setting 20.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.57048G	68.59	74.00	-5.41	11.95	3	Horizontal	16	2.24	-	56.64			
AV	11.56694G	53.81	54.00	-0.19	11.95	3	Horizontal	16	2.24	-	41.86			

802.11ax HEW20_Nss1,(MCS0)_4TX

16/09/2019

5825MHz_TX



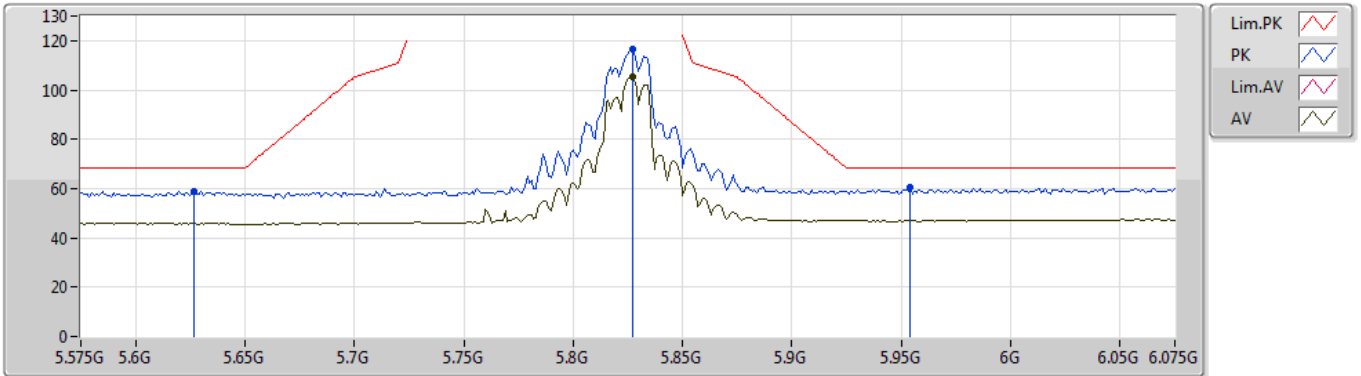
EUT_Y_4TX
Setting 20.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.595G	58.96	68.20	-9.24	5.63	3	Vertical	291	2.11	-	53.33			
PK	5.83G	119.59	Inf	-Inf	6.18	3	Vertical	291	2.11	-	113.41			
AV	5.829G	106.86	Inf	-Inf	6.17	3	Vertical	291	2.11	-	100.69			
PK	5.925G	60.21	68.20	-7.99	6.81	3	Vertical	291	2.11	-	53.40			

802.11ax HEW20_Nss1,(MCS0)_4TX

16/09/2019

5825MHz_TX



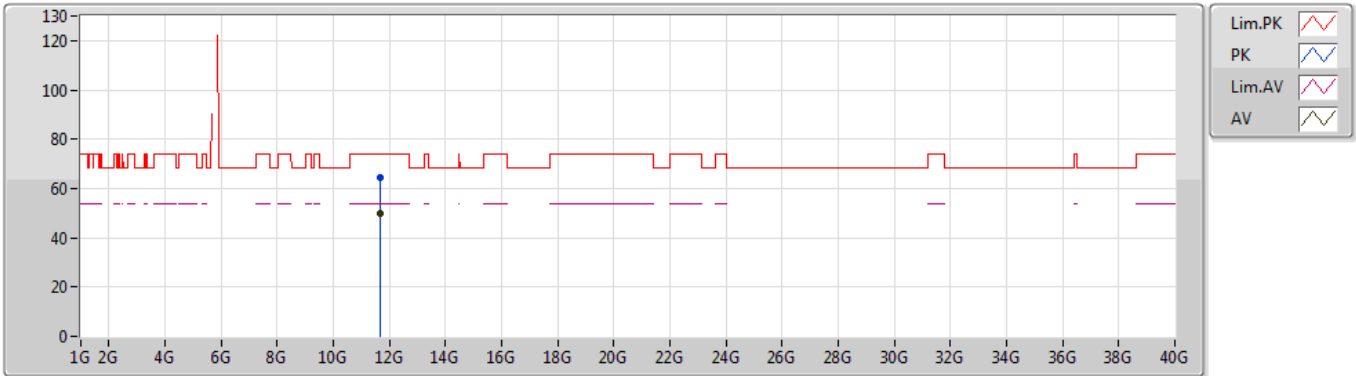
EUT Y_4TX
Setting 20.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.627G	59.10	68.20	-9.10	5.67	3	Horizontal	54	1.79	-	53.43
PK	5.827G	116.77	Inf	-Inf	6.16	3	Horizontal	54	1.79	-	110.61
AV	5.827G	105.41	Inf	-Inf	6.16	3	Horizontal	54	1.79	-	99.25
PK	5.954G	60.75	68.20	-7.45	6.94	3	Horizontal	54	1.79	-	53.81

802.11ax HEW20_Nss1,(MCS0)_4TX

16/09/2019

5825MHz_TX



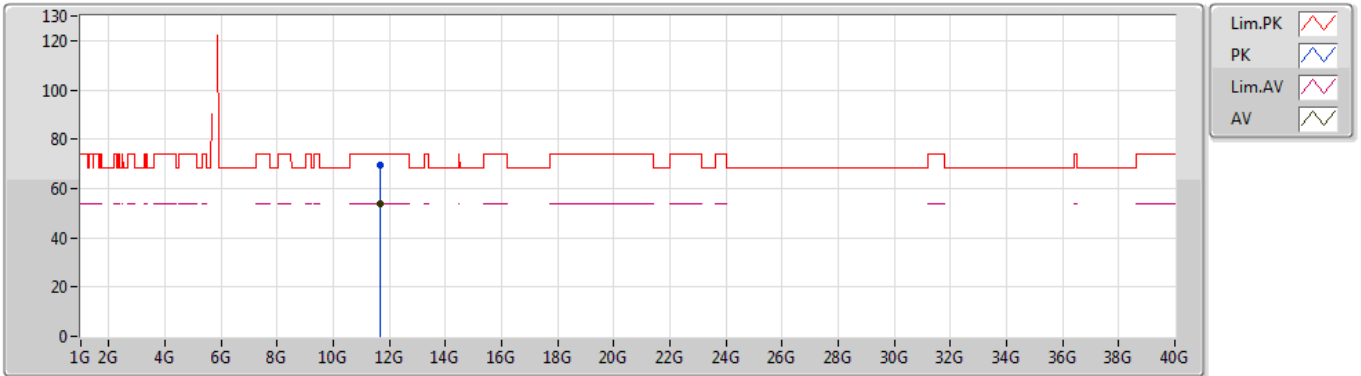
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Setting 20.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.65084G	64.58	74.00	-9.42	11.99	3	Vertical	331	2.01	-	52.59			
AV	11.6518G	50.02	54.00	-3.98	11.99	3	Vertical	331	2.01	-	38.03			

802.11ax HEW20_Nss1,(MCS0)_4TX

16/09/2019

5825MHz_TX



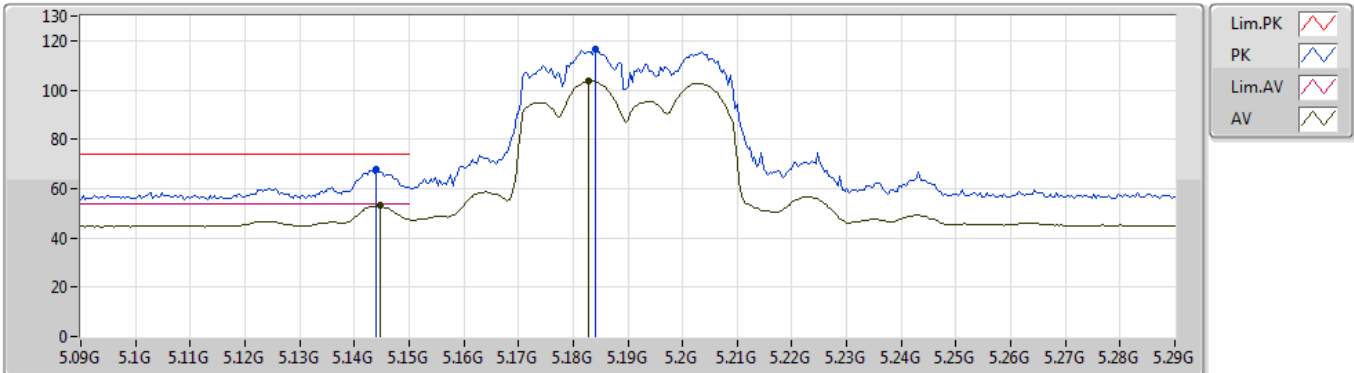
EUT Y_4TX
Setting 20.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.64964G	69.57	74.00	-4.43	11.99	3	Horizontal	21	2.24	-	57.58			
AV	11.65126G	53.72	54.00	-0.28	11.99	3	Horizontal	21	2.24	-	41.73			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5190MHz_TX



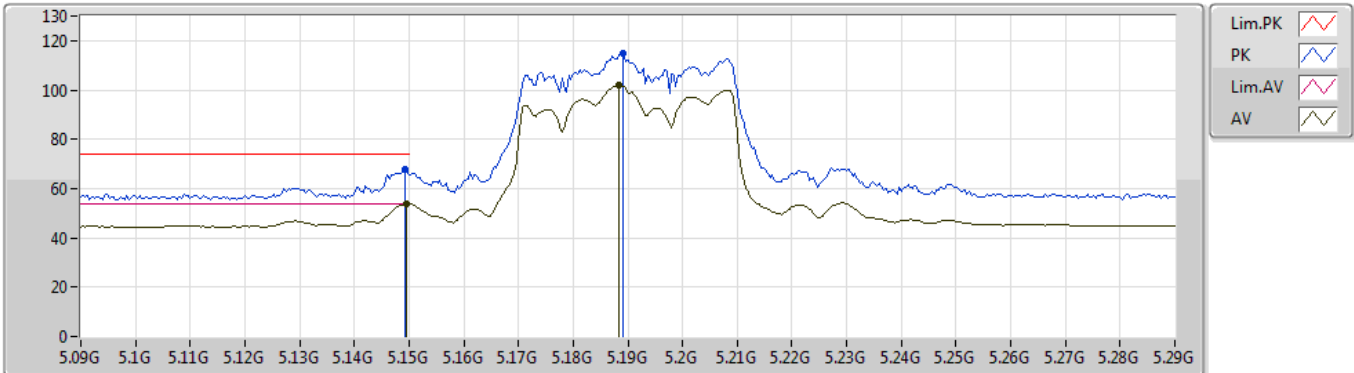
EUT Y_4TX
Setting 17.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.144G	67.78	74.00	-6.22	4.24	3	Vertical	299	2.77	-	63.54			
AV	5.1448G	52.98	54.00	-1.02	4.24	3	Vertical	299	2.77	-	48.74			
PK	5.184G	116.67	Inf	-Inf	4.26	3	Vertical	299	2.77	-	112.41			
AV	5.1828G	103.54	Inf	-Inf	4.26	3	Vertical	299	2.77	-	99.28			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5190MHz_TX



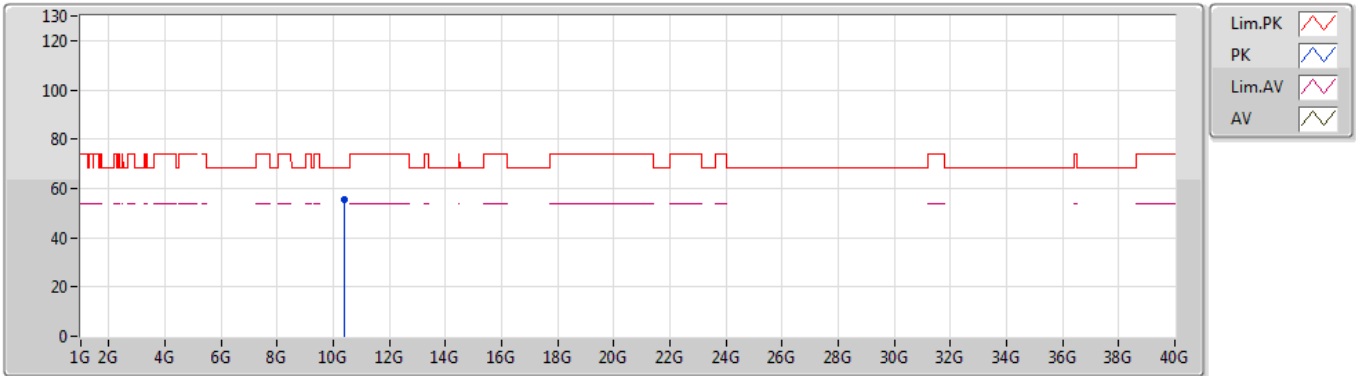
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Setting 17.5
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1492G	67.95	74.00	-6.05	4.25	3	Horizontal	337	2.77	-	63.70			
AV	5.1496G	53.69	54.00	-0.31	4.25	3	Horizontal	337	2.77	-	49.44			
PK	5.1892G	114.94	Inf	-Inf	4.26	3	Horizontal	337	2.77	-	110.68			
AV	5.1884G	101.74	Inf	-Inf	4.26	3	Horizontal	337	2.77	-	97.48			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5190MHz_TX



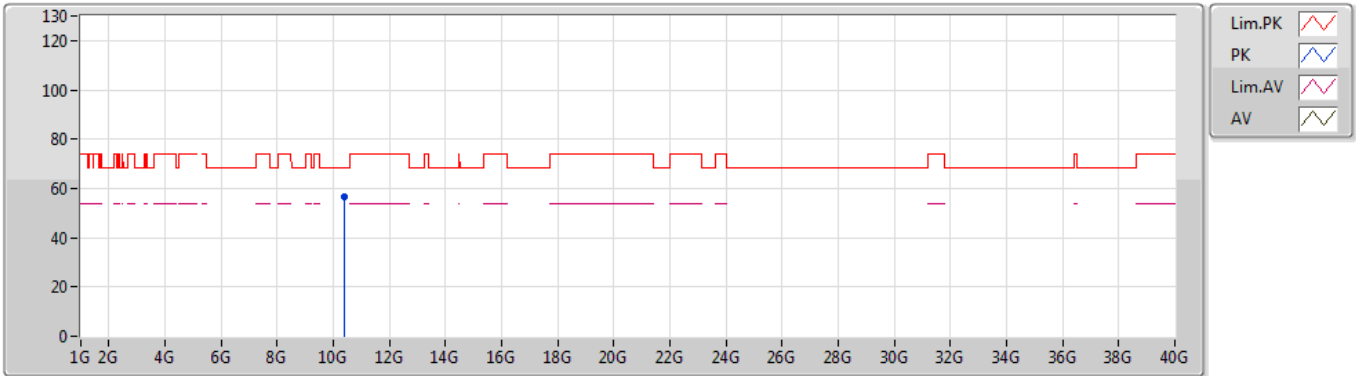
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Setting 17.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.38054G	55.67	68.20	-12.53	10.88	3	Vertical	334	2.00	-	44.79			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5190MHz_TX



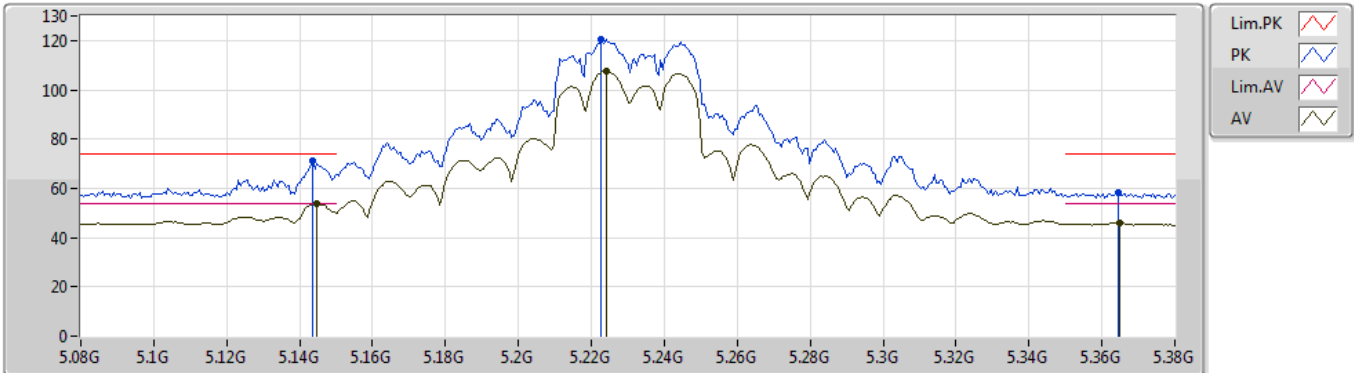
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Setting 17.5
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.37802G	56.80	68.20	-11.40	10.88	3	Horizontal	353	2.32	-	45.92			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5230MHz_TX



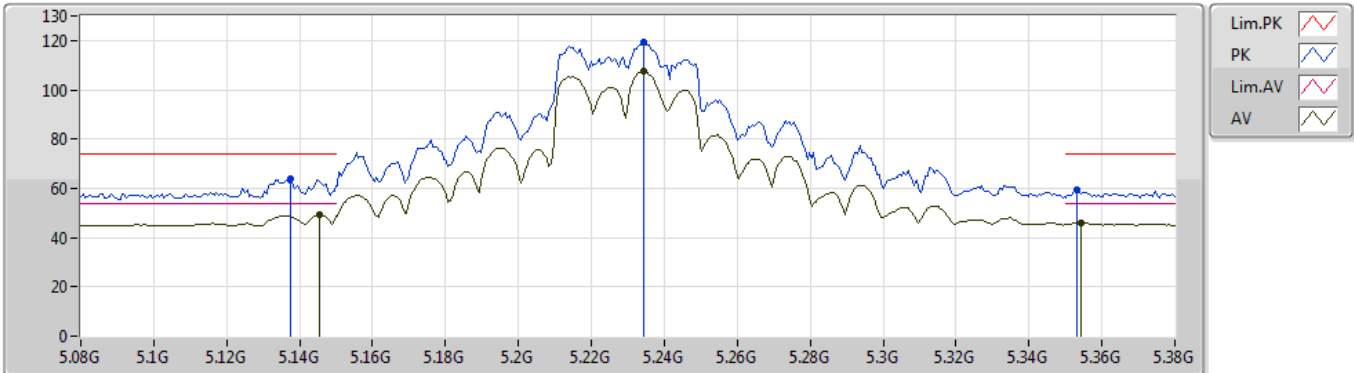
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Setting 22
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.1436G	71.32	74.00	-2.68	4.24	3	Vertical	310	2.14	-	67.08			
AV	5.1448G	53.99	54.00	-0.01	4.24	3	Vertical	310	2.14	-	49.75			
PK	5.2228G	120.65	Inf	-Inf	4.36	3	Vertical	310	2.14	-	116.29			
AV	5.224G	107.71	Inf	-Inf	4.36	3	Vertical	310	2.14	-	103.35			
PK	5.3644G	58.30	74.00	-15.70	4.86	3	Vertical	310	2.14	-	53.44			
AV	5.365G	45.87	54.00	-8.13	4.86	3	Vertical	310	2.14	-	41.01			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5230MHz_TX



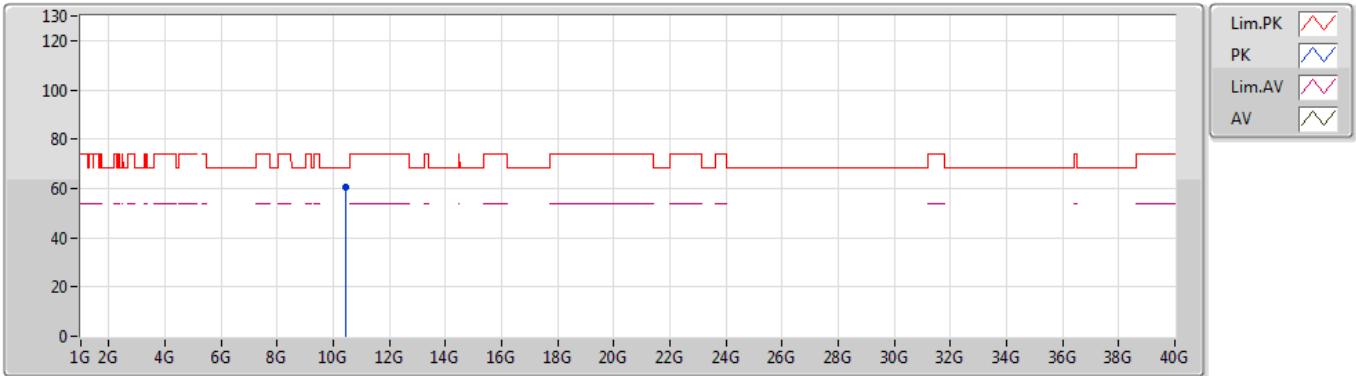
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Setting 22
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.1376G	63.90	74.00	-10.10	4.24	3	Horizontal	301	2.18	-	59.66
AV	5.1454G	49.09	54.00	-4.91	4.25	3	Horizontal	301	2.18	-	44.84
PK	5.2342G	119.27	Inf	-Inf	4.39	3	Horizontal	301	2.18	-	114.88
AV	5.2342G	107.31	Inf	-Inf	4.39	3	Horizontal	301	2.18	-	102.92
PK	5.353G	59.15	74.00	-14.85	4.82	3	Horizontal	301	2.18	-	54.33
AV	5.3542G	46.04	54.00	-7.96	4.82	3	Horizontal	301	2.18	-	41.22

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5230MHz_TX



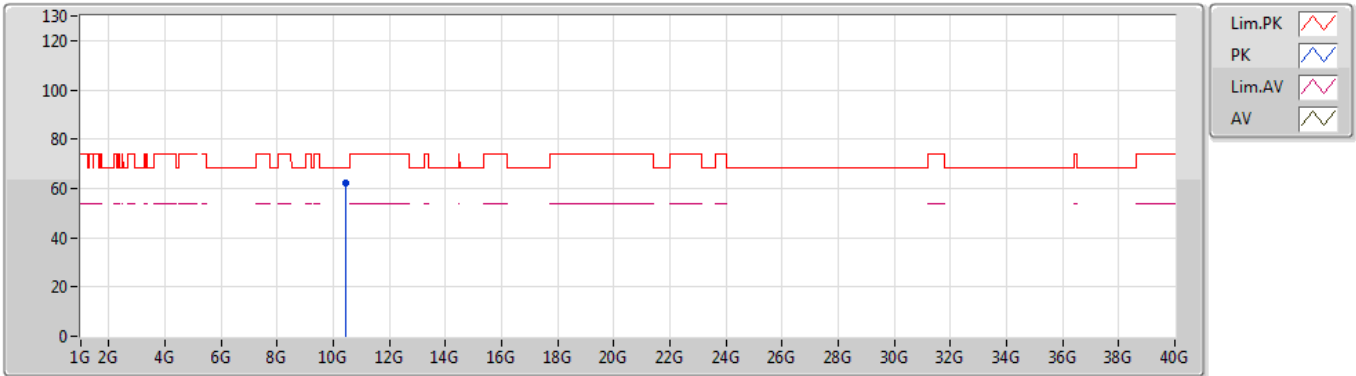
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Setting 22
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.45808G	60.51	68.20	-7.69	10.98	3	Vertical	341	2.03	-	49.53			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5230MHz_TX



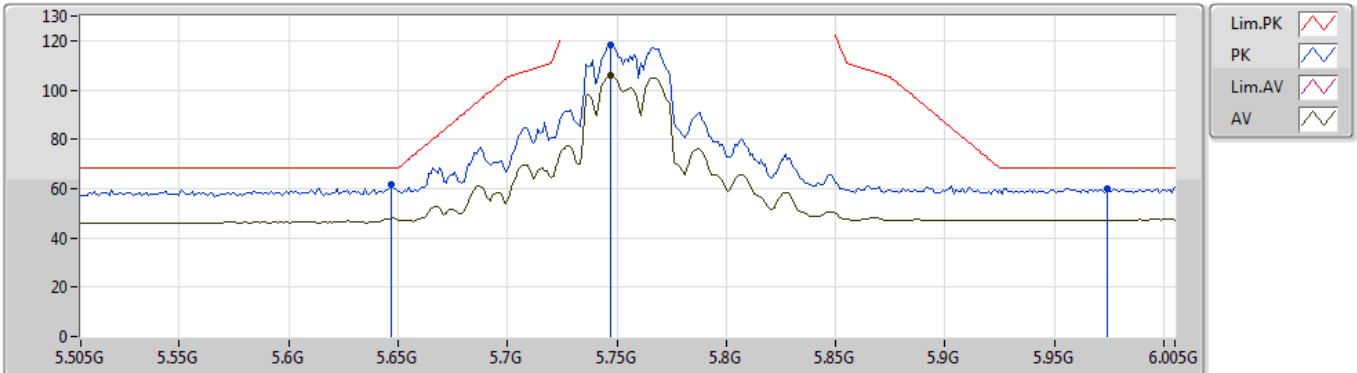
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Setting 22
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.46078G	62.17	68.20	-6.03	10.98	3	Horizontal	14	2.51	-	51.19			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5755MHz_TX



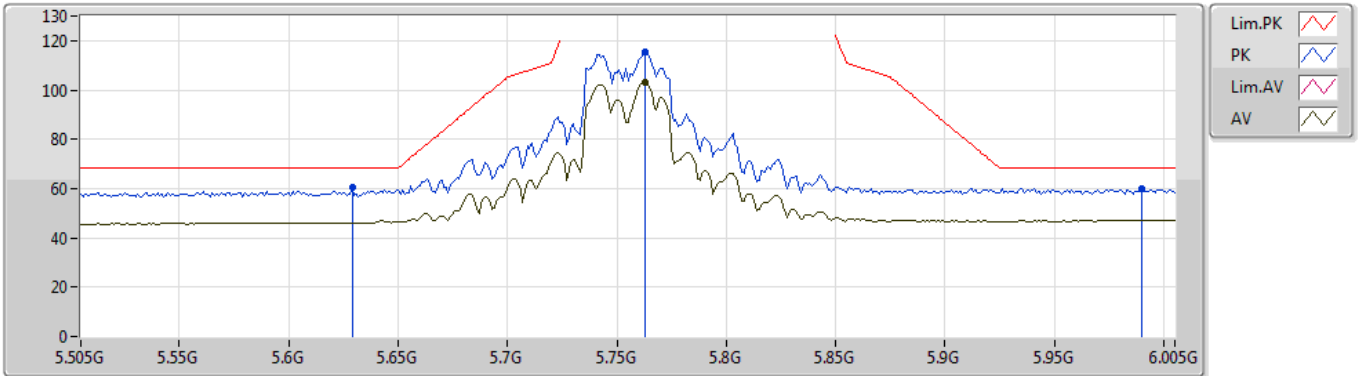
EUT_Y_4TX
Setting 22
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.647G	61.53	68.20	-6.67	5.69	3	Vertical	294	1.47	-	55.84			
PK	5.747G	118.13	Inf	-Inf	5.84	3	Vertical	294	1.47	-	112.29			
AV	5.747G	105.86	Inf	-Inf	5.84	3	Vertical	294	1.47	-	100.02			
PK	5.974G	59.86	68.20	-8.34	7.04	3	Vertical	294	1.47	-	52.82			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5755MHz_TX



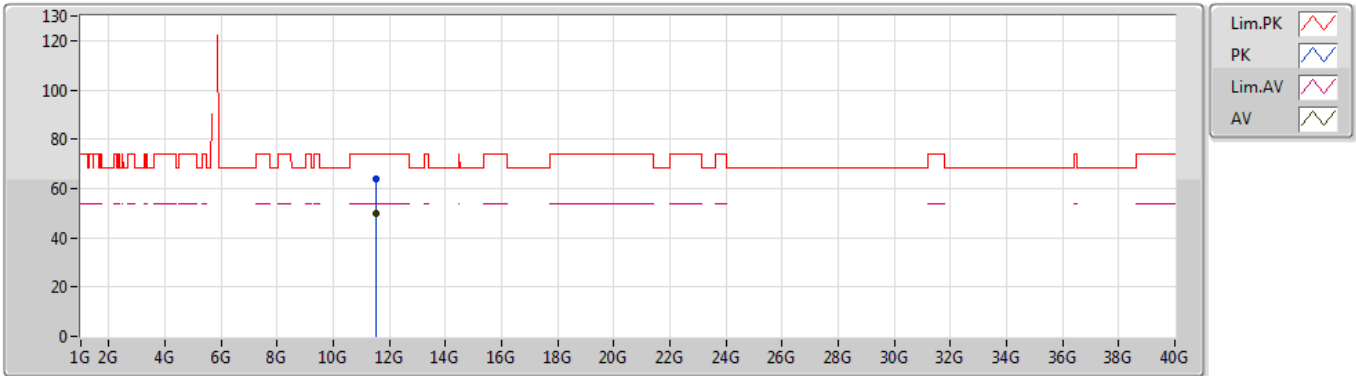
EUT Y_4TX
Setting 22
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.629G	60.25	68.20	-7.95	5.67	3	Horizontal	348	1.38	-	54.58			
PK	5.763G	115.50	Inf	-Inf	5.89	3	Horizontal	348	1.38	-	109.61			
AV	5.763G	103.25	Inf	-Inf	5.89	3	Horizontal	348	1.38	-	97.36			
PK	5.99G	59.94	68.20	-8.26	7.10	3	Horizontal	348	1.38	-	52.84			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5755MHz_TX



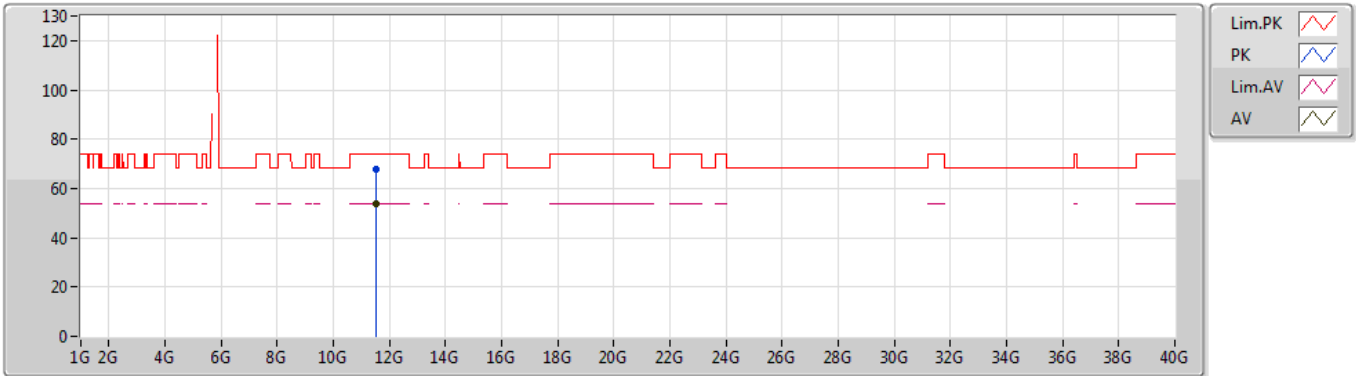
EUT Y_4TX
Setting 22
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.5118G	63.95	74.00	-10.05	11.93	3	Vertical	354	2.65	-	52.02			
AV	11.5102G	49.85	54.00	-4.15	11.93	3	Vertical	354	2.65	-	37.92			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5755MHz_TX



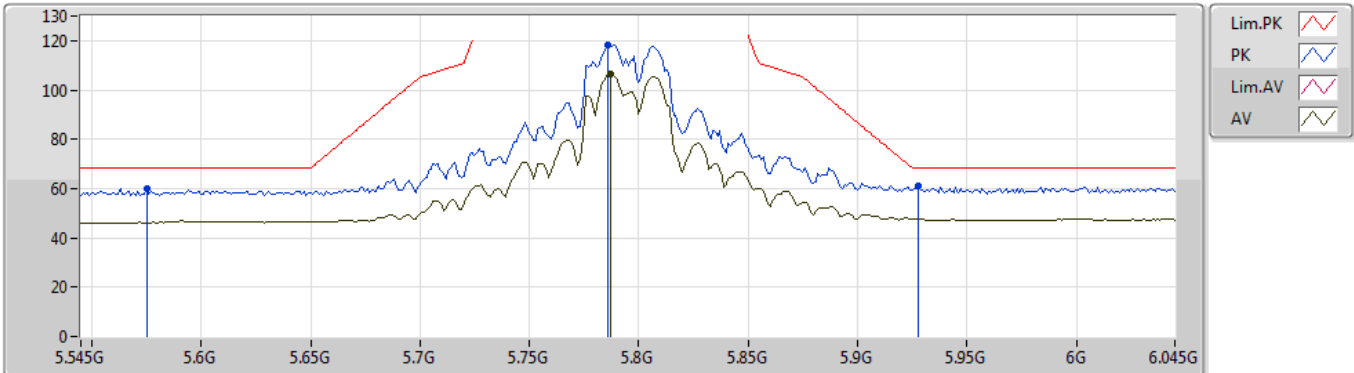
EUT Y_4TX
Setting 22
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.5116G	68.04	74.00	-5.96	11.93	3	Horizontal	14	2.23	-	56.11			
AV	11.5104G	53.69	54.00	-0.31	11.93	3	Horizontal	14	2.23	-	41.76			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5795MHz_TX



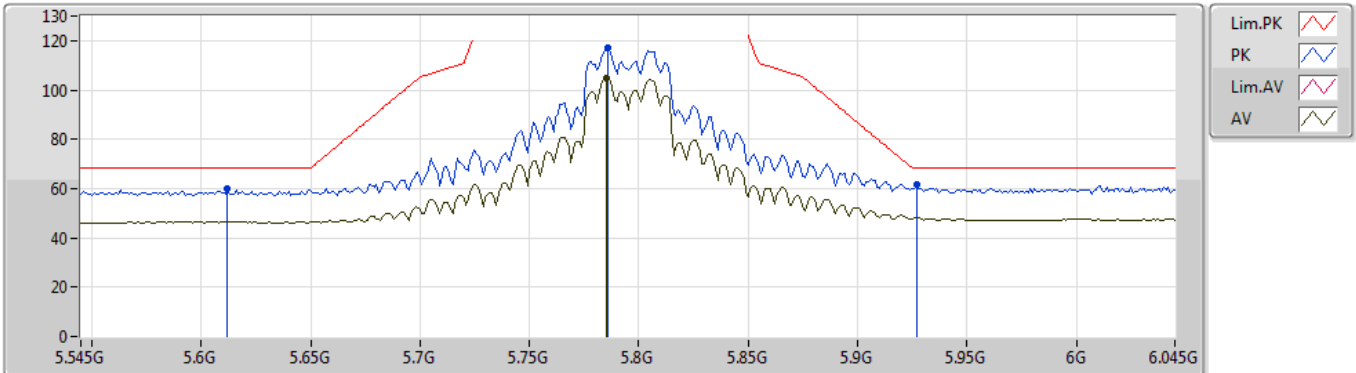
EUT Y_4TX
Setting 22
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.575G	60.06	68.20	-8.14	5.58	3	Vertical	295	1.55	-	54.48
PK	5.786G	118.31	Inf	-Inf	5.92	3	Vertical	295	1.55	-	112.39
AV	5.787G	106.36	Inf	-Inf	5.92	3	Vertical	295	1.55	-	100.44
PK	5.928G	60.95	68.20	-7.25	6.82	3	Vertical	295	1.55	-	54.13

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5795MHz_TX



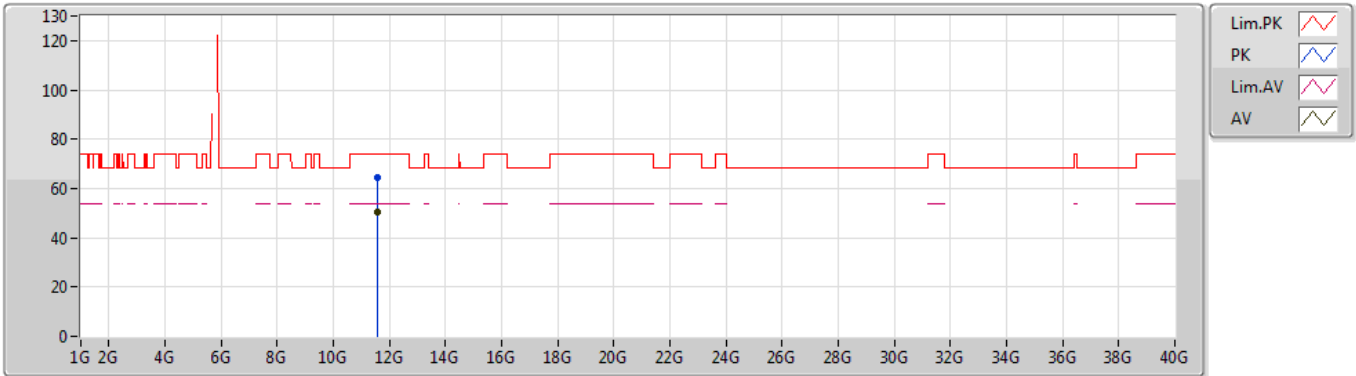
EUT_Y_4TX
Setting 22
01-J-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.612G	59.70	68.20	-8.50	5.65	3	Horizontal	296	2.99	-	54.05			
PK	5.786G	117.13	Inf	-Inf	5.92	3	Horizontal	296	2.99	-	111.21			
AV	5.785G	104.69	Inf	-Inf	5.92	3	Horizontal	296	2.99	-	98.77			
PK	5.927G	61.64	68.20	-6.56	6.82	3	Horizontal	296	2.99	-	54.82			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5795MHz_TX



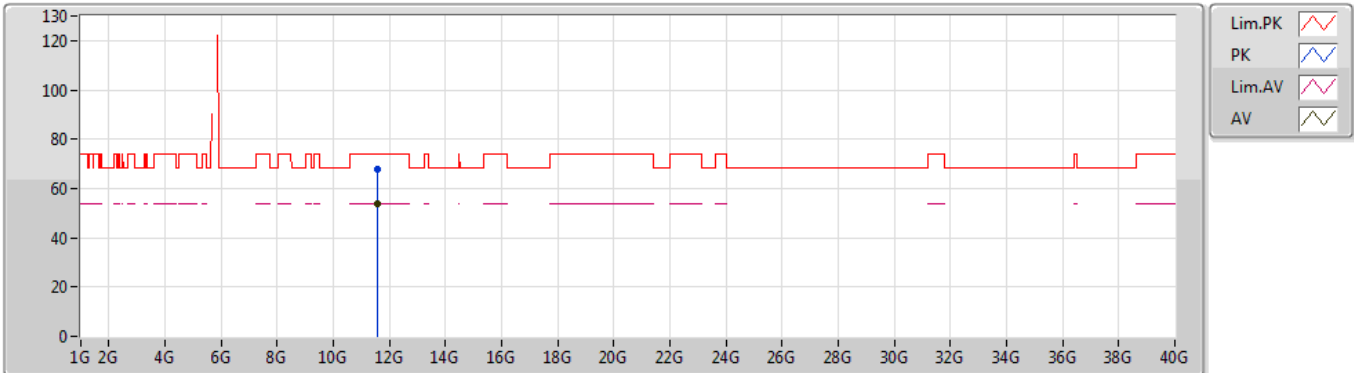
EUT Y_4TX
Setting 22
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.5878G	64.44	74.00	-9.56	11.97	3	Vertical	356	2.69	-	52.47			
AV	11.5886G	50.34	54.00	-3.66	11.97	3	Vertical	356	2.69	-	38.37			

802.11ax HEW40_Nss1,(MCS0)_4TX

17/09/2019

5795MHz_TX



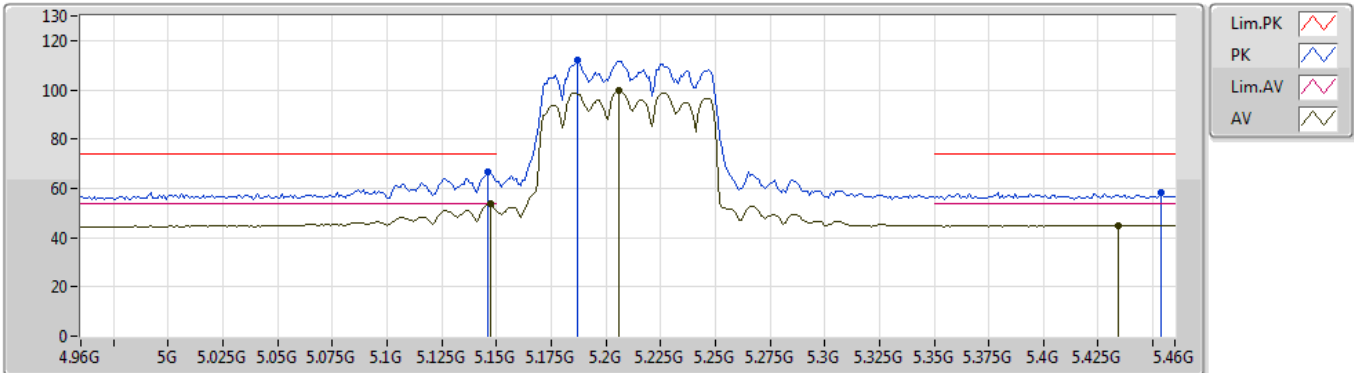
EUT Y_4TX
Setting 22
01-J-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.5979G	67.98	74.00	-6.02	11.97	3	Horizontal	17	2.22	-	56.01			
AV	11.5932G	53.96	54.00	-0.04	11.97	3	Horizontal	17	2.22	-	41.99			

802.11ax HEW80_Nss1,(MCS0)_4TX

17/09/2019

5210MHz_TX



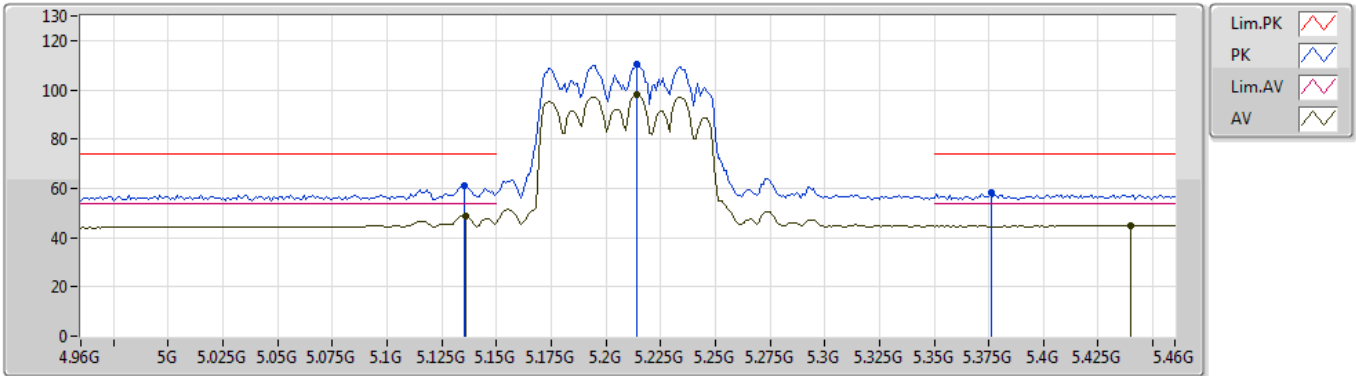
EUT Y_4TX
Setting 16.5
01-S-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.146G	66.61	74.00	-7.39	4.25	3	Vertical	302	2.19	-	62.36			
AV	5.147G	53.55	54.00	-0.45	4.25	3	Vertical	302	2.19	-	49.30			
PK	5.187G	112.15	Inf	-Inf	4.27	3	Vertical	302	2.19	-	107.88			
AV	5.206G	99.58	Inf	-Inf	4.29	3	Vertical	302	2.19	-	95.29			
PK	5.454G	58.44	74.00	-15.56	5.19	3	Vertical	302	2.19	-	53.25			
AV	5.434G	45.04	54.00	-8.96	5.12	3	Vertical	302	2.19	-	39.92			

802.11ax HEW80_Nss1,(MCS0)_4TX

17/09/2019

5210MHz_TX



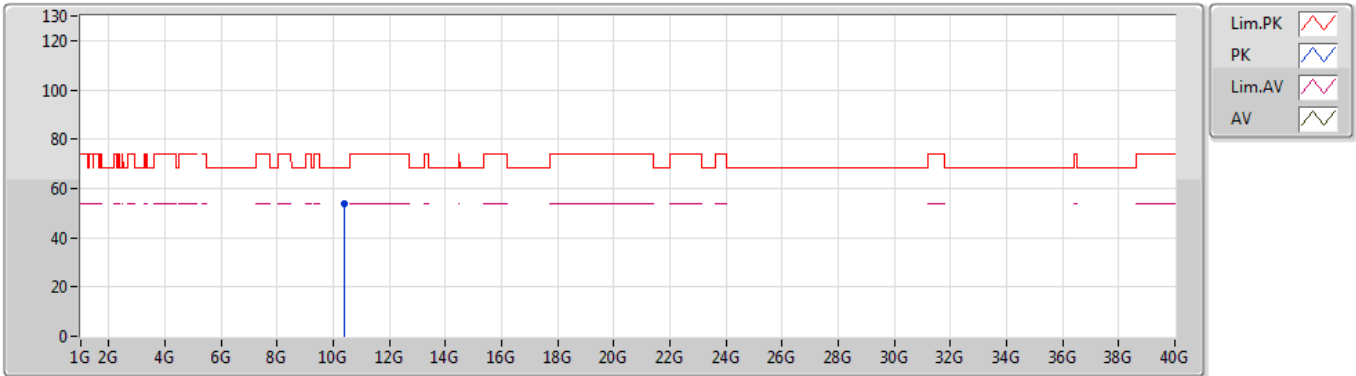
EUT Y_4TX
Setting 16.5
01-S-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.135G	61.35	74.00	-12.65	4.25	3	Horizontal	304	2.08	-	57.10
AV	5.136G	49.01	54.00	-4.99	4.25	3	Horizontal	304	2.08	-	44.76
PK	5.214G	110.23	Inf	-Inf	4.32	3	Horizontal	304	2.08	-	105.91
AV	5.214G	97.95	Inf	-Inf	4.32	3	Horizontal	304	2.08	-	93.63
PK	5.376G	58.47	74.00	-15.53	4.91	3	Horizontal	304	2.08	-	53.56
AV	5.44G	44.90	54.00	-9.10	5.15	3	Horizontal	304	2.08	-	39.75

802.11ax HEW80_Nss1,(MCS0)_4TX

17/09/2019

5210MHz_TX



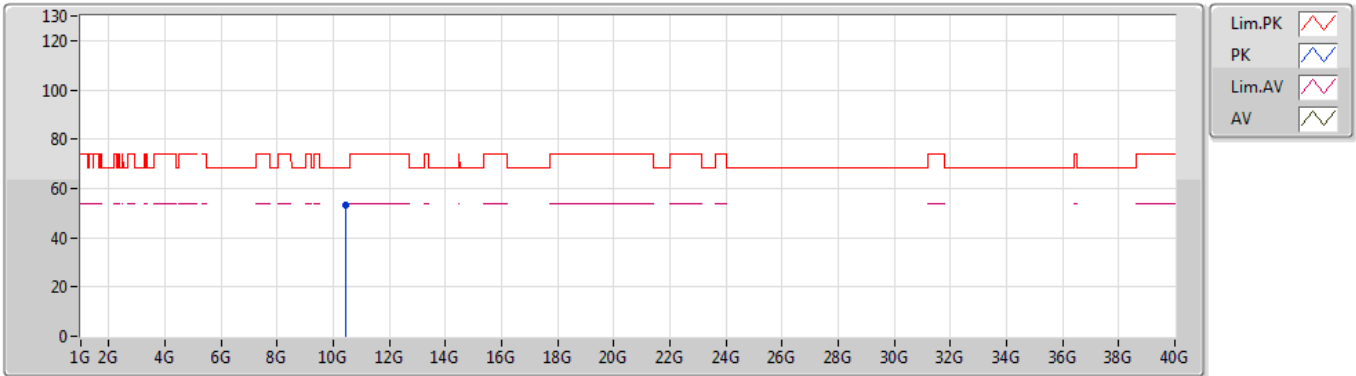
EUT Y_4TX
Setting 16.5
01-S-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.41528G	53.58	68.20	-14.62	10.92	3	Vertical	61	2.57	-	42.66			

802.11ax HEW80_Nss1,(MCS0)_4TX

17/09/2019

5210MHz_TX



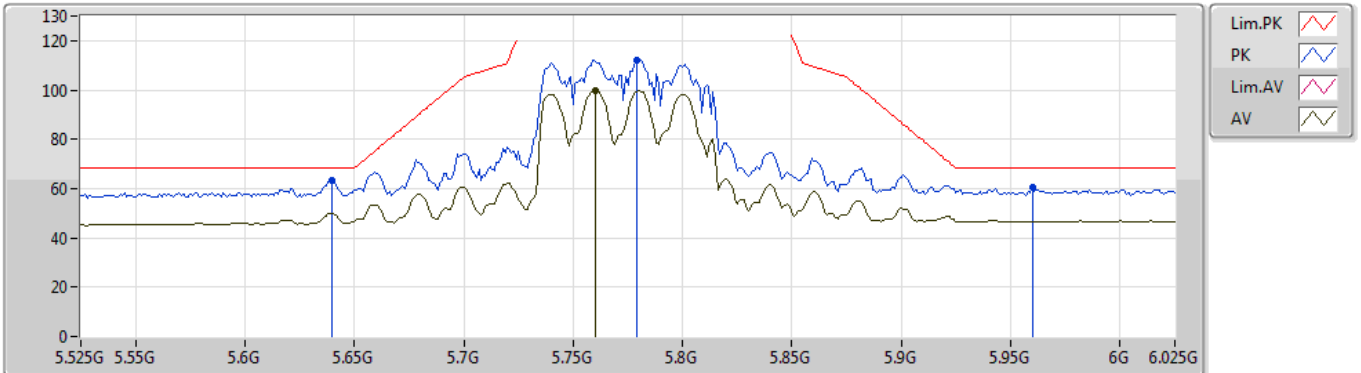
EUT Y_4TX
Setting 16.5
01-S-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	10.42608G	53.02	68.20	-15.18	10.95	3	Horizontal	19	2.48	-	42.07			

802.11ax HEW80_Nss1,(MCS0)_4TX

17/09/2019

5775MHz_TX



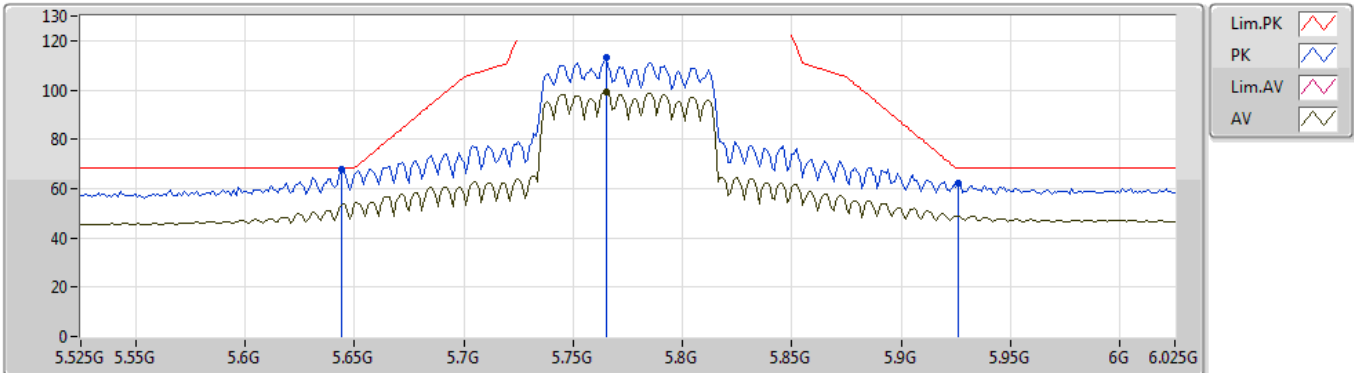
EUT_Y_4TX
Setting 19
01-S-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	5.64G	63.22	68.20	-4.98	5.68	3	Vertical	286	2.15	-	57.54			
PK	5.779G	112.19	Inf	-Inf	5.91	3	Vertical	286	2.15	-	106.28			
AV	5.76G	99.99	Inf	-Inf	5.87	3	Vertical	286	2.15	-	94.12			
PK	5.96G	60.72	68.20	-7.48	6.97	3	Vertical	286	2.15	-	53.75			

802.11ax HEW80_Nss1,(MCS0)_4TX

17/09/2019

5775MHz_TX



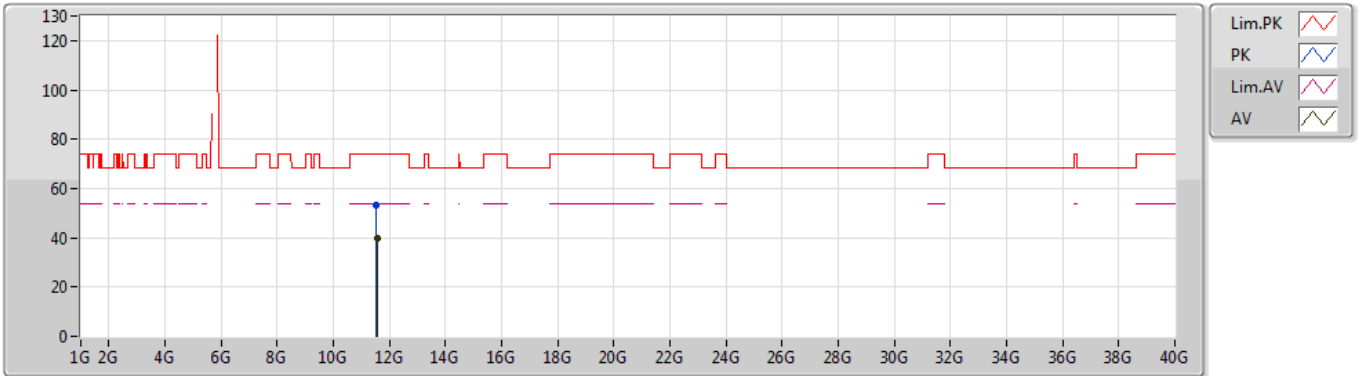
EUT Y_4TX
Setting 19
01-S-5-10
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.644G	67.93	68.20	-0.27	5.68	3	Horizontal	63	2.75	-	62.25
PK	5.765G	113.02	Inf	-Inf	5.89	3	Horizontal	63	2.75	-	107.13
AV	5.765G	99.44	Inf	-Inf	5.89	3	Horizontal	63	2.75	-	93.55
PK	5.926G	62.25	68.20	-5.95	6.81	3	Horizontal	63	2.75	-	55.44

802.11ax HEW80_Nss1,(MCS0)_4TX

17/09/2019

5775MHz_TX



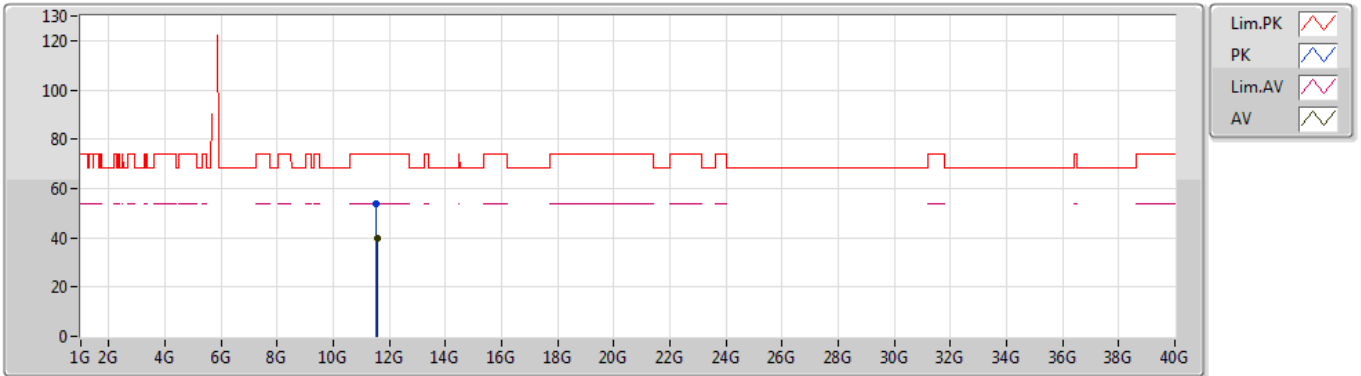
EUT Y_4TX
Setting 19
01-S-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.54788G	53.47	74.00	-20.53	11.95	3	Vertical	167	2.61	-	41.52			
AV	11.55284G	39.96	54.00	-14.04	11.96	3	Vertical	167	2.61	-	28.00			

802.11ax HEW80_Nss1,(MCS0)_4TX

17/09/2019

5775MHz_TX



EUT Y_4TX
Setting 19
01-S-5
FSP(100019)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	11.54736G	53.98	74.00	-20.02	11.95	3	Horizontal	119	1.89	-	42.03			
AV	11.55728G	39.93	54.00	-14.07	11.96	3	Horizontal	119	1.89	-	27.97			