FCC RADIO TEST REPORT

FCC ID	:	PPQ-WP8333V5
Equipment	:	802.11ac Tri Band PoE Access Point
Brand Name	:	LITE-ON, WatchGuard
Model Name	:	WP8333V5, C-110, AP325
Applicant	:	LITE-ON Technology Corp. Bldg. C, 90, Chien 1 Rd., Chung-Ho, New Taipei City, 23585 Taiwan
Manufacturer (1)	:	Lite-On Network Communication (Dongguan) Limited 30#Keji Rd.,Yin Hu Industrial Area,Qingxi Town,DongGuan City,Guangdong,China
Manufacturer (2)	:	LITE-ON Technology Corp. Networking Plant No. 101, Neihuan N. Rd., Nanzi Processing Export, Nanzi Dist., Kaohsiung City 811, Taiwan
Standard	:	47 CFR FCC Part 15.407

The product was received on Nov. 11, 2019 , and testing was started from Nov. 11, 2019 and completed on Dec. 26, 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: Cliff Chang

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

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History of this test report

Report No.	Version	Description	Issued Date
FR741722-10AB	01	Initial issue of report	Jan. 02, 2020
FR741722-10AB	01	1. Modifying the typing error section 2.5 Support Equipment and section 2.6 Test Setup Diagramfor Radiated (above 1GHz) power supply. 2. Modifying the typing error section 2.6 Test Setup Diagram for Radiated Test < 1GHz item 2 and 4 RJ-45 cable length:1.5m.	Jan. 08, 2020

Summary of Test Result

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

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

Reviewed by: Sam Chen

Report Producer: Wendy Pan

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

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

1.1.2 Antenna Information

Set	Ant.	Port	Brand	P/N	Antenna Type	Connector	Radio
1	1	1	LYNwave	MLX19X-126AA1-A	PIFA Antenna	I-PEX	R1
	2	2	LYNwave	MLX19X-126AA1-A	PIFA Antenna	I-PEX	R1
	3	1	LYNwave	MLX19X-126AA1-A	PIFA Antenna	I-PEX	R2
	4	2	LYNwave	MLX19X-126AA1-A	PIFA Antenna	I-PEX	R2
	5	1	LYNwave	MLX19X-126AA1-A	PCB Antenna	I-PEX	R4
	6	1	LYNwave	MLX19X-126AA1-A	PCB Antenna	I-PEX	R3
	7	2	LYNwave	MLX19X-126AA1-A	PCB Antenna	I-PEX	R3

Ant.	Gain (dBi)						
	Radio 1	Radio 2		Radio 3			Radio 4
	WLAN 2.4GHz	WLAN 5GHz B1	WLAN 5GHz B4	WLAN 2.4GHz	WLAN 5GHz B1	WLAN 5GHz B4	Buletooth
1	6.3	-	-	-	-	-	-
2	6.5	-	-	-	-	-	-
3	-	5.6	5.9	-	-	-	-
4	-	5.6	4.6	-	-	-	-
5	-	-	-	-	-	-	2.1
6	-	-	-	6.5	4.7	6.0	-
7	-	-	-	6.5	4.8	5.5	-

Note: The above information was declared by manufacturer.
The EUT contain Radio 3 (2.4G)/(5G) RF module (Model Name: WM862FEMD / FCC ID: PQ-WM862FEMD).
For 2.4GHz function:
For IEEE 802.11b/g/n/ac mode (2TX/2RX)
Radio 1
Ant. 1 and Ant. 2 could transmit/receive simultaneously.
Radio 3
Ant. 6 and Ant. 7 could transmit/receive simultaneously.
For 5GHz function:
For IEEE 802.11a/n/ac mode (2TX/2RX)
Radio 2 (For Band 1/Band 4)
Ant. 3 and Ant. 4 could transmit/receive simultaneously.
Radio 3 (For Band 1/Band 4)
Ant. 6 and Ant. 7 could transmit/receive simultaneously.
For Bluetooth function:
For bluetooth mode (1TX/1RX)
Only Ant. 5 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.964	0.16	2.066m	1k
802.11ac VHT20	0.985	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.971	0.13	2.44m	1k
802.11ac VHT80	0.94	0.27	1.15m	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
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	QRCT V3.0.210			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

Brand Name	Model Name	Description
LITE-ON	WP8333V5	All the models are identical, the difference model for difference brand served as marketing strategy.
WatchGuard	C-110, AP325	

From the above models, model: **AP325** was selected as representative model for the test and its data was recorded in this report.

1.1.6 Table for Explanation of Flash

Brand name	Model name	Flash
winbond	25Q256JVFQ	32M+32M

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	Owen Hsu	23.2~24.4°C / 60~62%	Nov. 26, 2019 ~ Dec. 13, 2019
Radiated < 1GHz	03CH05-CB	Eason Chen	23.7~24°C / 60~62%	Nov. 25, 2019 ~ Nov. 26, 2019
Radiated > 1GHz	03CH06-CB	Eason Chen	25.3~25.9°C / 55~58%	Nov. 11, 2019 ~ Dec. 26, 2019
AC Conduction	CO02-CB	Rick Yeh	20~21°C / 49~50%	Dec. 03, 2019 ~ Dec. 04, 2019

Test site Designation No. TW0006 with FCC
Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	21
5200MHz	21
5240MHz	21
5745MHz	24
5785MHz	24
5825MHz	24
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	21
5200MHz	21
5240MHz	22
5745MHz	24
5785MHz	24
5825MHz	24
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	19.5
5230MHz	22
5755MHz	24
5795MHz	24
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	18.5
5775MHz	21.5

Note:VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for HT20 and HT40 are the same or lower than VHT20 and VHT40.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT - R1 (2.4G) + R2 (5G) + R3 (2.4G) + R4 (BT) + Adapter
2	EUT - R1 (2.4G) + R2 (5G) + R3 (5G) + R4 (BT) + 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	Normal Link
1	EUT in Z axis - R1 (2.4G) + R2 (5G) + R3 (2.4G) + R4 (BT) + Adapter
2	EUT in Y axis - R1 (2.4G) + R2 (5G) + R3 (2.4G) + R4 (BT) + Adapter
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Y axis - R1 (2.4G) + R2 (5G) + R3 (5G) + R4 (BT) + Adapter
Mode 2 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT in Y axis - R1 (2.4G) + R2 (5G) + R3 (2.4G) + R4 (BT) + PoE
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis and the worst case was found at X axis. So the measurement will follow this same test configuration.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz (Radio 1) + WLAN 5GHz (Radio 2) + WLAN 2.4GHz (Radio 3) + Bluetooth (Radio 4)
2	WLAN 2.4GHz (Radio 1) + WLAN 5GHz (Radio 2) + WLAN 5GHz (Radio 3) + Bluetooth (Radio 4)
Refer to Sporton Test Report No.: FA741722-10 for Co-location RF Exposure Evaluation.	

Note: The PoE and Adapter were for measurement only, would not be marketed.

The PoE and Adapter information as below:

Support Unit	Brand	Model Number
PoE	Ruckus	740-64214-001
Adapter	APD	WB-18D12FU

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Flash disk3.0	Transcend	639205 7755	N/A
B	Notebook	DELL	E6430	N/A
C	Notebook	DELL	E6430	N/A
D	Notebook	DELL	E6430	N/A
E	Notebook	DELL	E6430	N/A
F	BT Device	LITE-ON	WP8333V5	PPQ-WP8333V5
G	Notebook	DELL	E6430	N/A
H	LAN2 NB	DELL	E6430	N/A
I	Adapter	APD	WA-24Q12FU	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Notebook	DELL	E4300	N/A
D	Notebook	DELL	E4300	N/A
E	Notebook	DELL	E4300	N/A
F	BT Device	WatchGuard	C-110	PPQ-WP8333V5
G	Flash disk3.0	Silicon Power	B06	N/A
H	PoE	Ruckus	740-64214-001	N/A

For Radiated (above 1GHz):

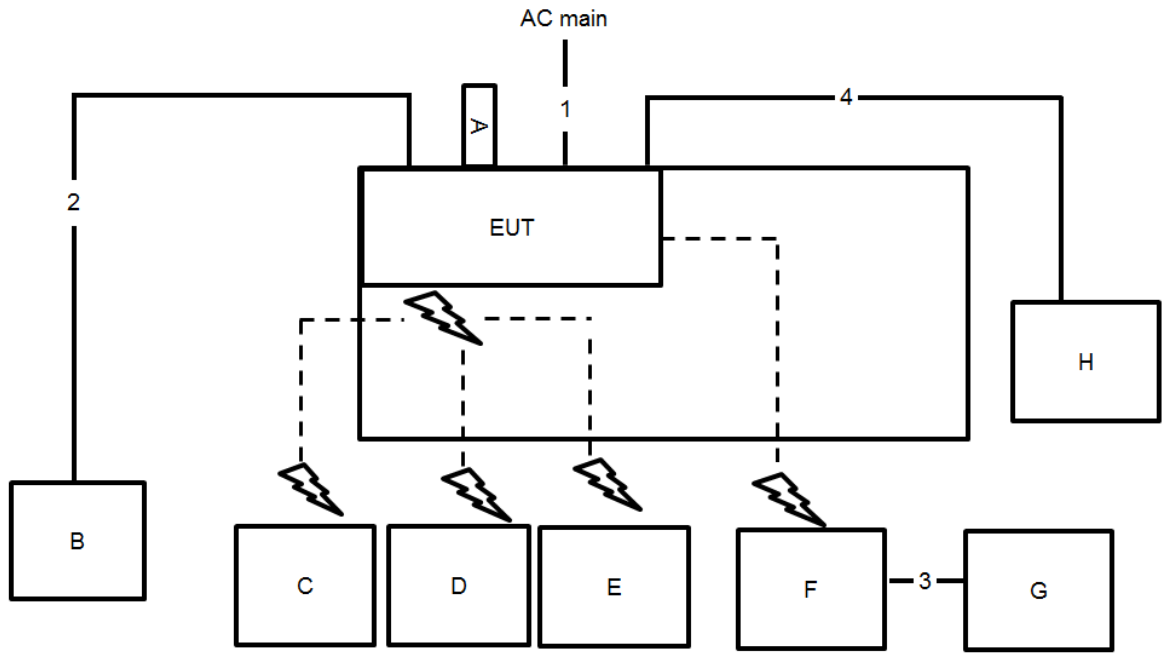
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	PoE	Ruckus	740-64214-001	N/A

For RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	AC Adapter	APD	WB-18D12FU	N/A

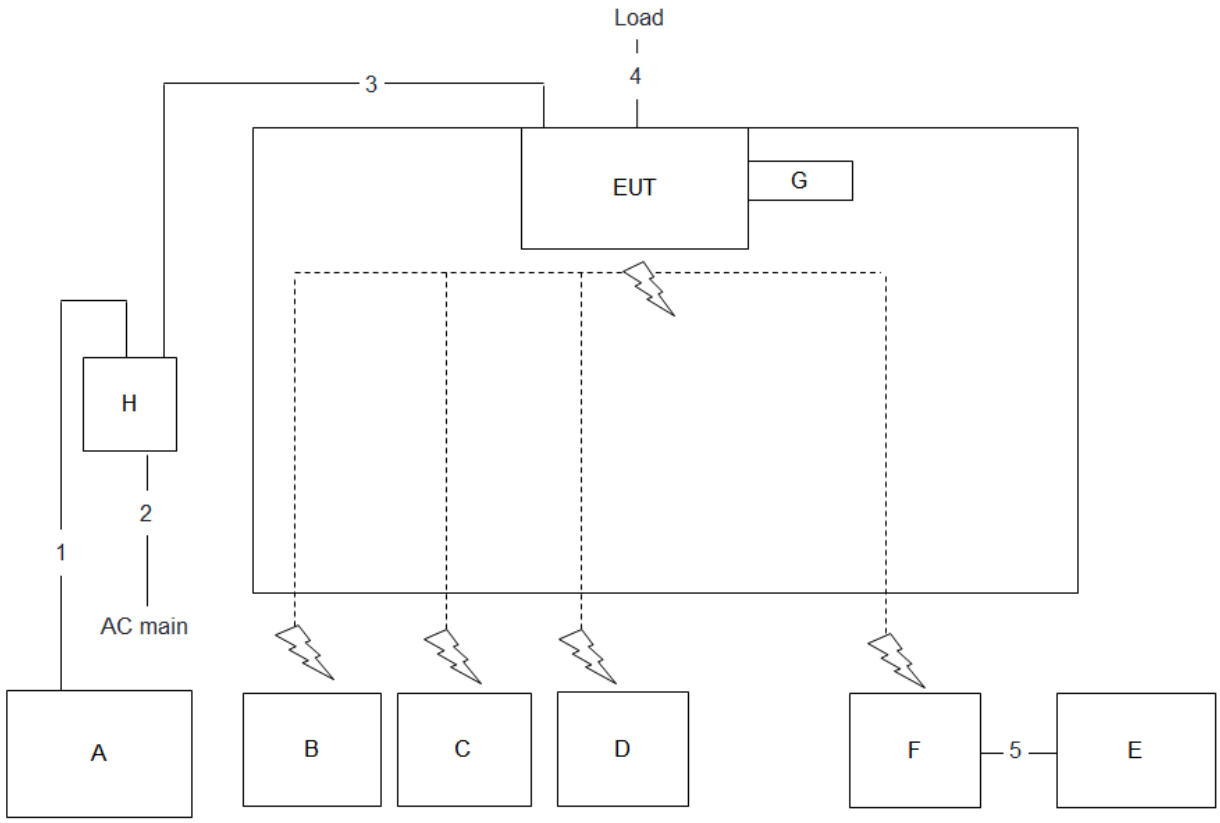
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



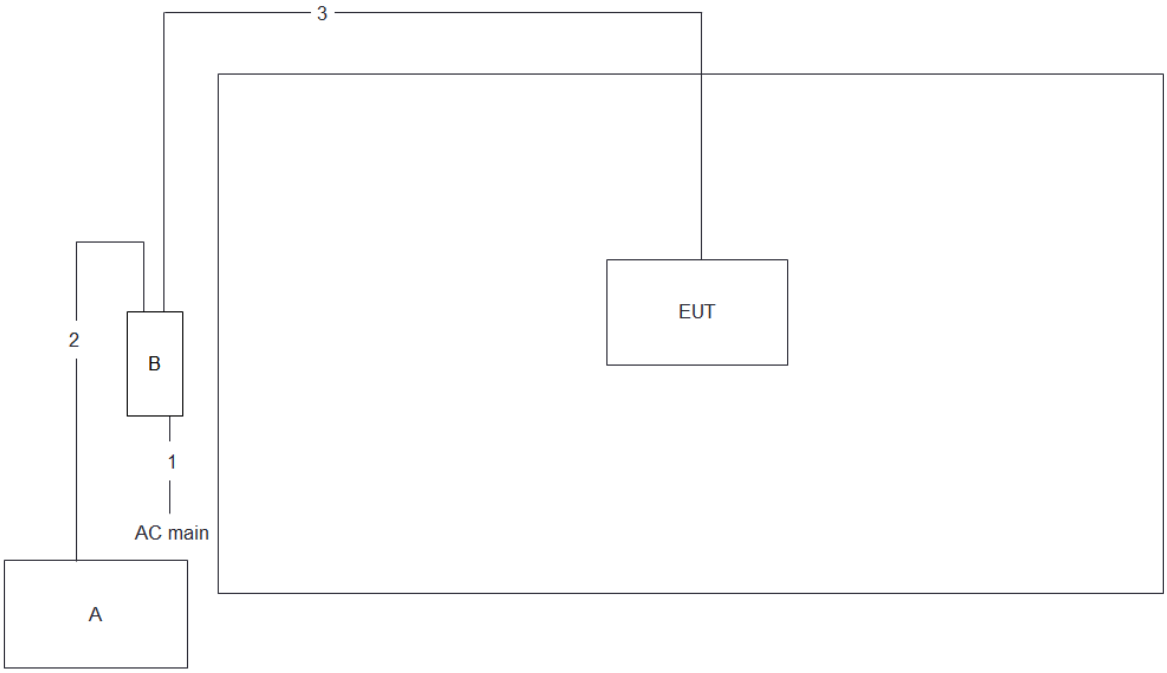
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m
4	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	0.8m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	1.5m
5	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	0.8m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

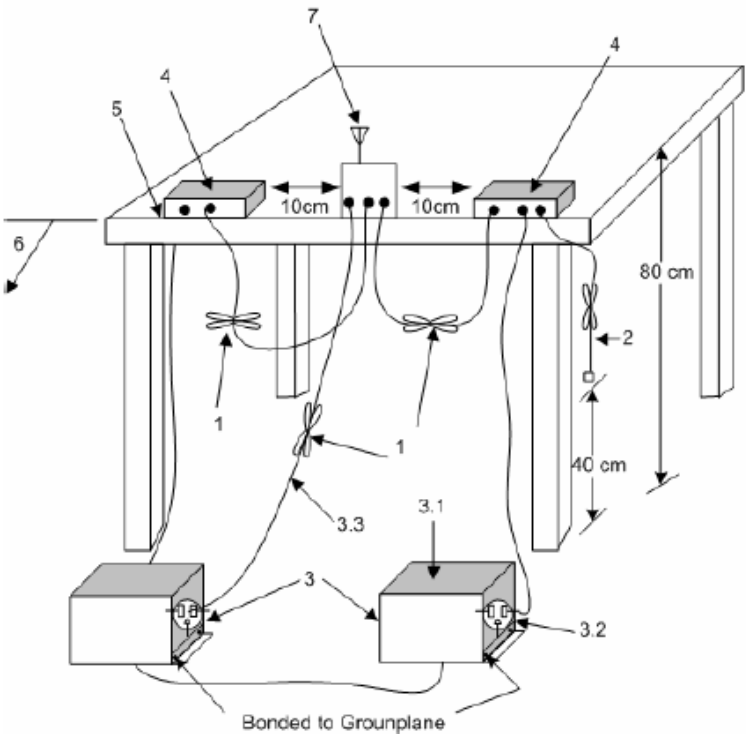
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



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

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

3.2.2 Measuring Instruments

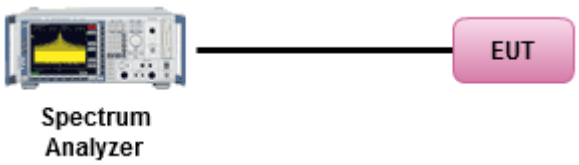
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

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

3.2.4 Test Setup

Emission Bandwidth



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup

RF Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

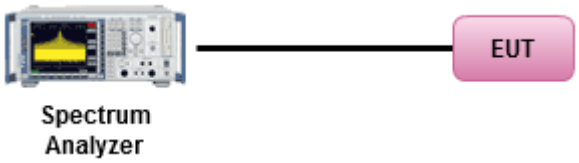
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:		
	☐ Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
	[duty cycle ≥ 98% or external video / power trigger]	
	☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).	
	☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)	
	duty cycle < 98% and average over on/off periods with duty factor	
	☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).	
	☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
▪ For conducted measurement.		
	▪ If the EUT supports multiple transmit chains using options given below:	
		☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
		☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
		☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
	▪	If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
☒ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	

3.5.2 Measuring Instruments

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

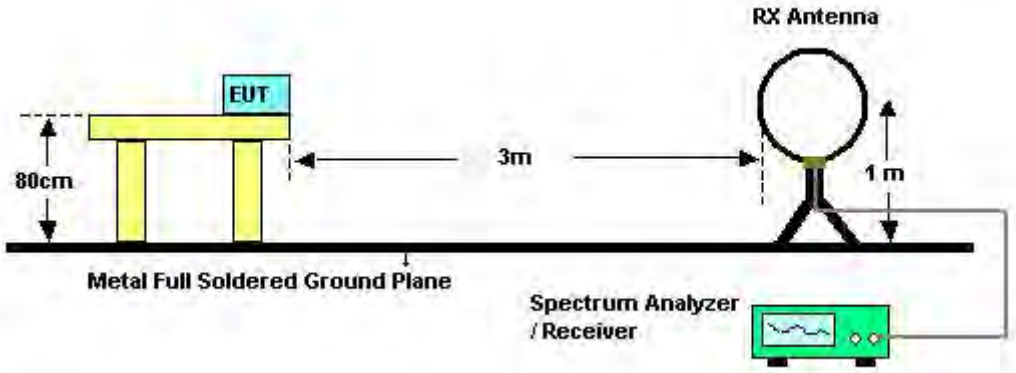
3.5.3 Test Procedures

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

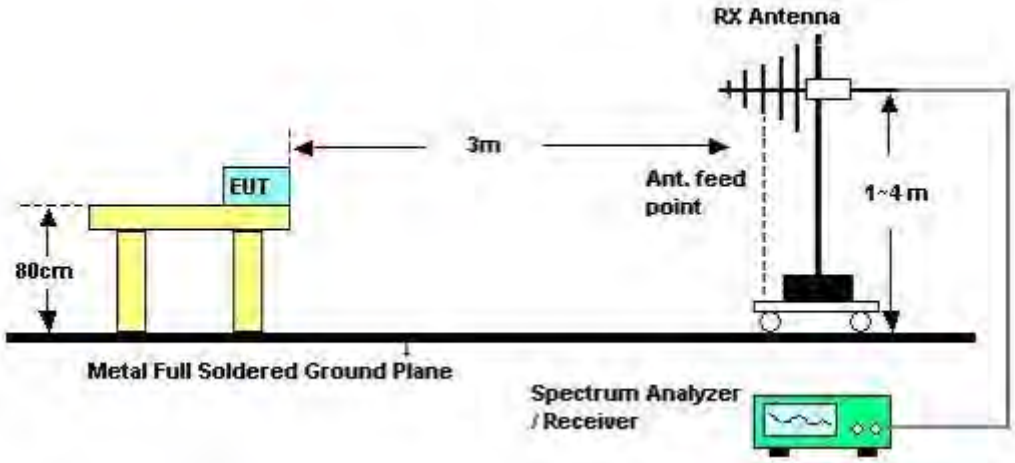
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

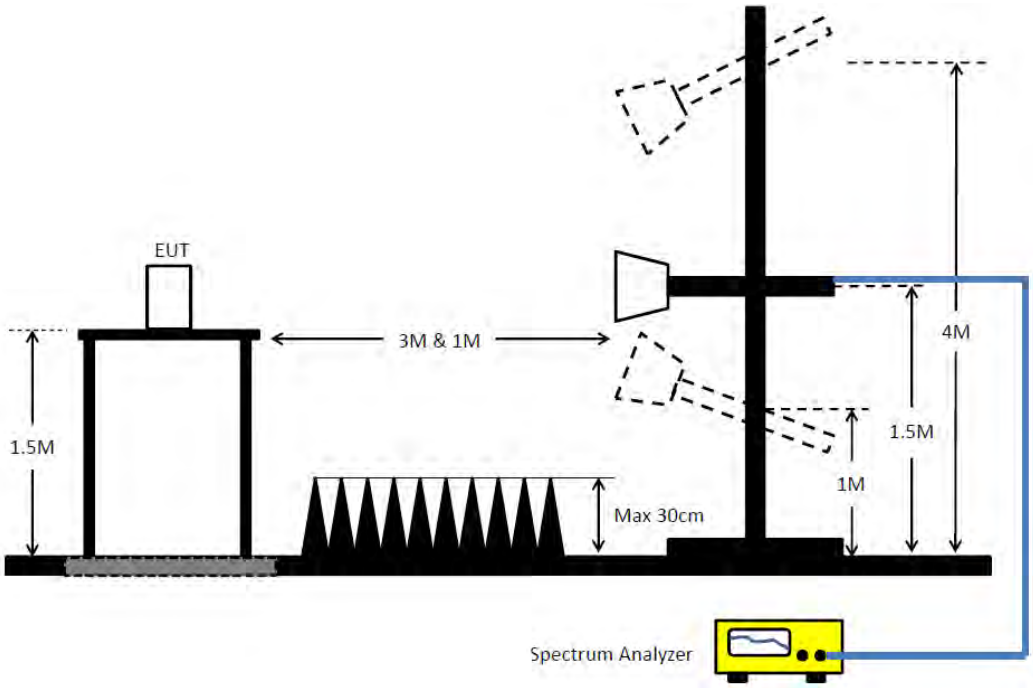
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.5.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 21, 2019	Nov. 20, 2020	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Oct. 30, 2019	Oct. 29, 2020	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 16, 2019	Jan. 15, 2020	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 21, 2019	Oct. 20, 2020	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESE & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 28, 2019	Mar. 27, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 01, 2019	Apr. 30, 2020	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1292	1GHz~18GHz	Jul. 17, 2019	Jul. 16, 2020	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 08, 2019	May 07, 2020	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 21, 2019	Oct. 20, 2020	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05+24	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 18, 2019	Nov. 17, 2020	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)

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

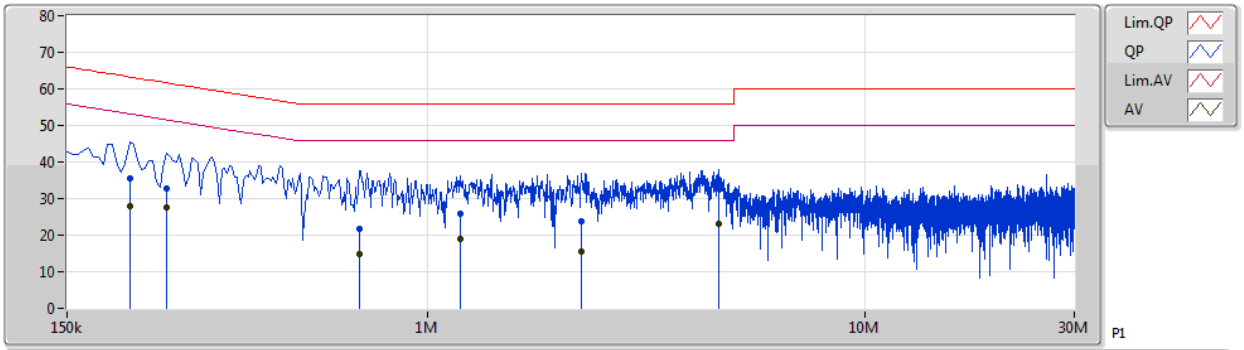
N.C.R. means Non-Calibration required.

Summary

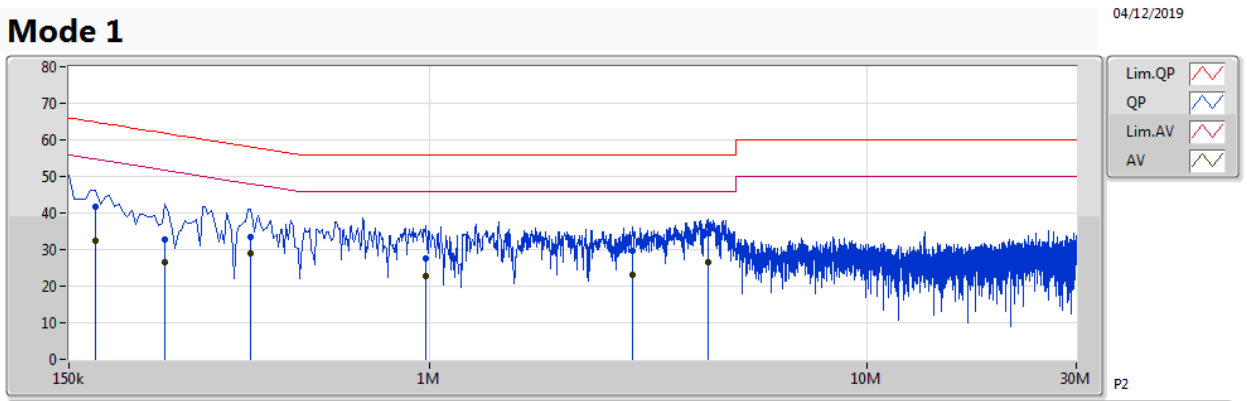
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 1	Pass	AV	388.5k	29.07	48.10	-19.03	10.22	Neutral

Mode 1

04/12/2019



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	208.5k	35.49	63.27	-27.78	10.22	Line	-	25.27	0.05	0.07	10.10
AV	208.5k	27.96	53.27	-25.31	10.22	Line	-	17.74	0.05	0.07	10.10
QP	253.5k	32.83	61.64	-28.81	10.22	Line	-	22.61	0.05	0.07	10.10
AV	253.5k	27.46	51.64	-24.18	10.22	Line	-	17.24	0.05	0.07	10.10
QP	699k	21.60	56.00	-34.40	10.27	Line	-	11.33	0.07	0.10	10.10
AV	699k	15.00	46.00	-31.00	10.27	Line	-	4.73	0.07	0.10	10.10
QP	1.19M	26.00	56.00	-30.00	10.31	Line	-	15.69	0.08	0.13	10.10
AV	1.19M	18.84	46.00	-27.16	10.31	Line	-	8.53	0.08	0.13	10.10
QP	2.243M	23.67	56.00	-32.33	10.35	Line	-	13.32	0.09	0.16	10.10
AV	2.243M	15.51	46.00	-30.49	10.35	Line	-	5.16	0.09	0.16	10.10
QP	4.637M	32.74	56.00	-23.26	10.38	Line	-	22.36	0.13	0.15	10.10
AV	4.637M	23.01	46.00	-22.99	10.38	Line	"Worst"	12.63	0.13	0.15	10.10



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	172.5k	41.78	64.83	-23.05	10.19	Neutral	-	31.59	0.03	0.06	10.10
AV	172.5k	32.27	54.83	-22.56	10.19	Neutral	-	22.08	0.03	0.06	10.10
QP	249k	32.83	61.79	-28.96	10.20	Neutral	-	22.63	0.03	0.07	10.10
AV	249k	26.61	51.79	-25.18	10.20	Neutral	-	16.41	0.03	0.07	10.10
QP	388.5k	33.29	58.10	-24.81	10.22	Neutral	-	23.07	0.04	0.08	10.10
AV	388.5k	29.07	48.10	-19.03	10.22	Neutral	"Worst"	18.85	0.04	0.08	10.10
QP	982.5k	27.65	56.00	-28.35	10.26	Neutral	-	17.39	0.04	0.12	10.10
AV	982.5k	22.71	46.00	-23.29	10.26	Neutral	-	12.45	0.04	0.12	10.10
QP	2.909M	29.80	56.00	-26.20	10.32	Neutral	-	19.48	0.07	0.15	10.10
AV	2.909M	23.00	46.00	-23.00	10.32	Neutral	-	12.68	0.07	0.15	10.10
QP	4.335M	34.58	56.00	-21.42	10.34	Neutral	-	24.24	0.09	0.15	10.10
AV	4.335M	26.44	46.00	-19.56	10.34	Neutral	-	16.10	0.09	0.15	10.10

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	19.11M	16.402M	16M4D1D	18.93M	16.372M
802.11ac VHT20_Nss1,(MCS0)_2TX	20.1M	17.601M	17M6D1D	19.83M	17.571M
802.11ac VHT40_Nss1,(MCS0)_2TX	39.78M	35.922M	35M9D1D	39.42M	35.862M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.28M	75.682M	75M7D1D	83.28M	75.682M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	16.582M	16M6D1D	16.35M	16.462M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.61M	17.691M	17M7D1D	17.55M	17.601M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.4M	36.222M	36M2D1D	34.92M	36.102M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.72M	75.562M	75M6D1D	75.6M	75.562M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth;

Result

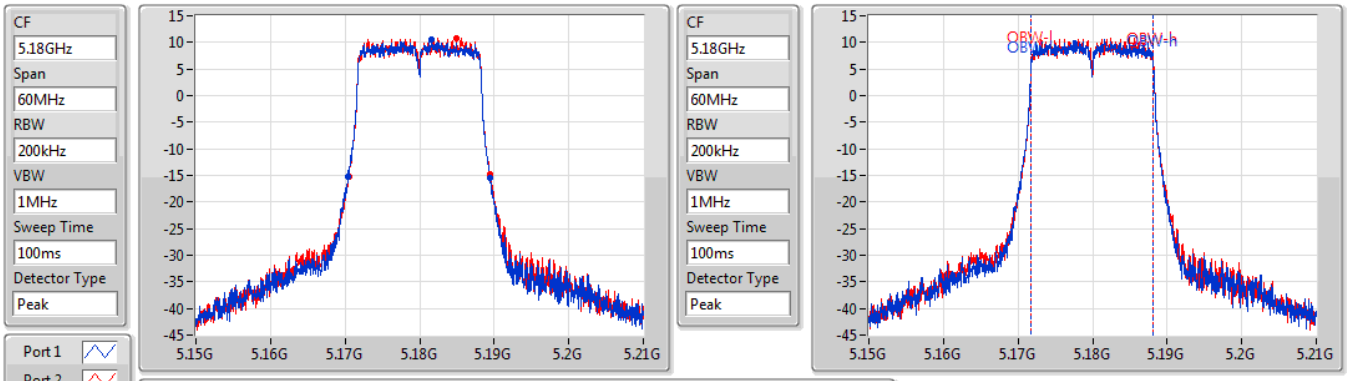
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	19.11M	16.402M	18.93M	16.372M
5200MHz	Pass	Inf	19.08M	16.402M	18.93M	16.402M
5240MHz	Pass	Inf	19.11M	16.402M	18.99M	16.372M
5745MHz	Pass	500k	16.35M	16.522M	16.35M	16.462M
5785MHz	Pass	500k	16.35M	16.582M	16.35M	16.492M
5825MHz	Pass	500k	16.35M	16.522M	16.35M	16.462M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	19.92M	17.601M	19.83M	17.571M
5200MHz	Pass	Inf	19.92M	17.601M	19.98M	17.571M
5240MHz	Pass	Inf	19.95M	17.601M	20.1M	17.571M
5745MHz	Pass	500k	17.58M	17.631M	17.61M	17.631M
5785MHz	Pass	500k	17.58M	17.691M	17.55M	17.631M
5825MHz	Pass	500k	17.61M	17.661M	17.58M	17.601M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.42M	35.862M	39.42M	35.862M
5230MHz	Pass	Inf	39.66M	35.922M	39.78M	35.922M
5755MHz	Pass	500k	35.28M	36.162M	34.92M	36.102M
5795MHz	Pass	500k	35.28M	36.222M	35.4M	36.102M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	83.28M	75.682M	83.28M	75.682M
5775MHz	Pass	500k	75.72M	75.562M	75.6M	75.562M

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

802.11a_Nss1,(6Mbps)_2TX EBW

5180MHz

13/12/2019

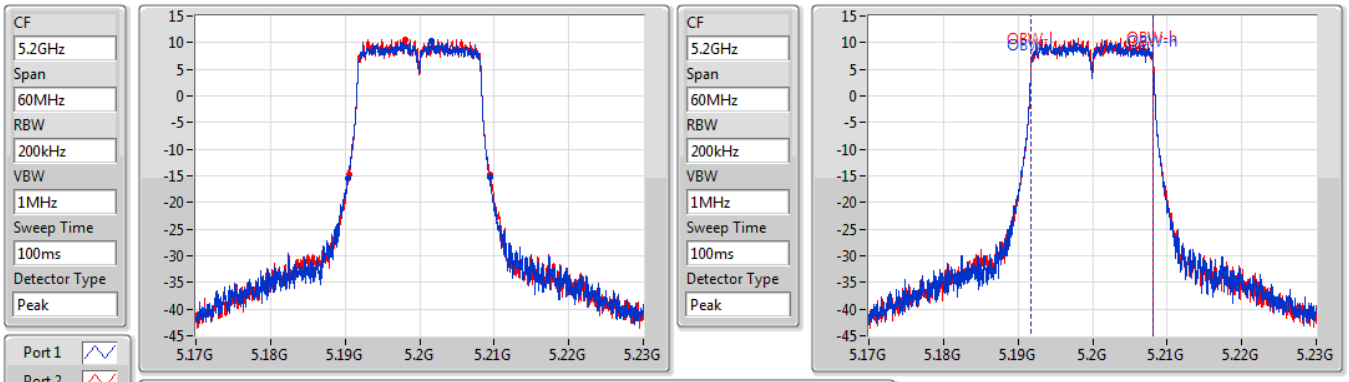


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.11M	5.17034G	5.18945G	16.402M	5.171754G	5.188156G	Inf	1
18.93M	5.17049G	5.18942G	16.372M	5.171784G	5.188156G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5200MHz

13/12/2019

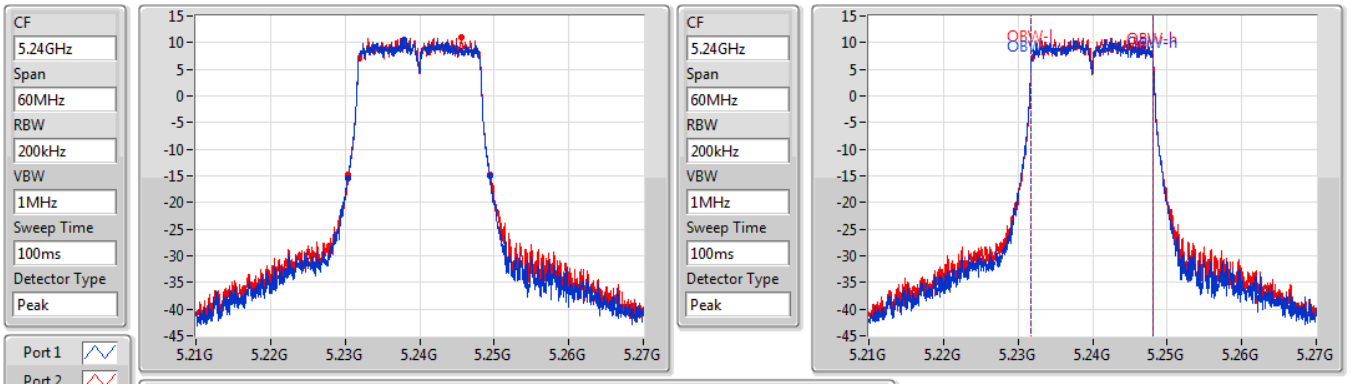


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.08M	5.19031G	5.20939G	16.402M	5.191754G	5.208156G	Inf	1
18.93M	5.19049G	5.20942G	16.402M	5.191754G	5.208156G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5240MHz

13/12/2019

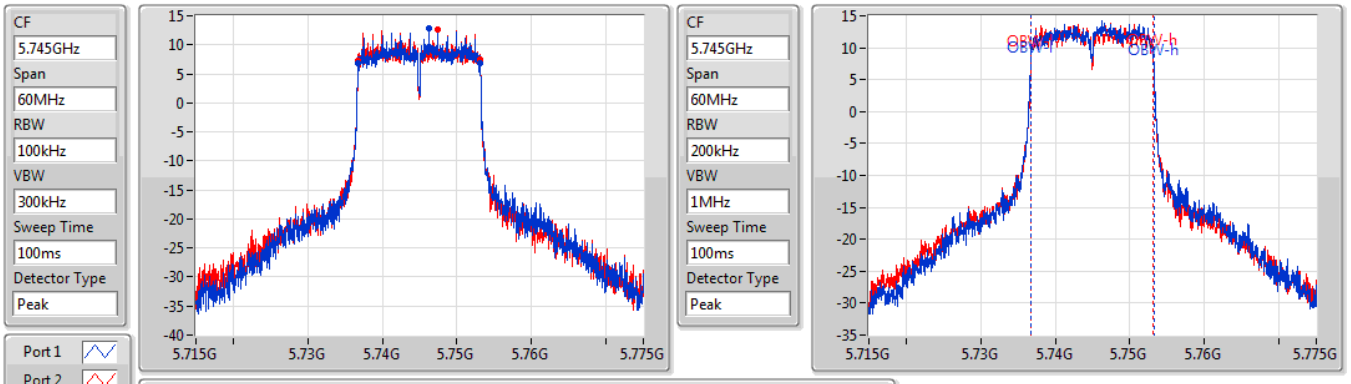


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.11M	5.23034G	5.24945G	16.402M	5.231754G	5.248156G	Inf	1
18.99M	5.23046G	5.24945G	16.372M	5.231784G	5.248156G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5745MHz

13/12/2019

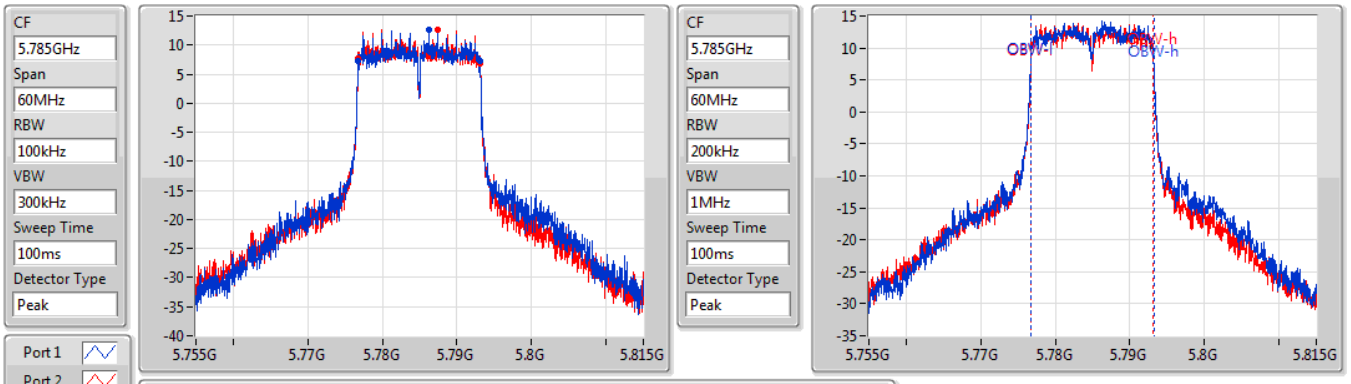


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.73678G	5.75313G	16.522M	5.736694G	5.753216G	500k	1
16.35M	5.73678G	5.75313G	16.462M	5.736724G	5.753186G	500k	2

802.11a_Nss1,(6Mbps)_2TX EBW

5785MHz

13/12/2019

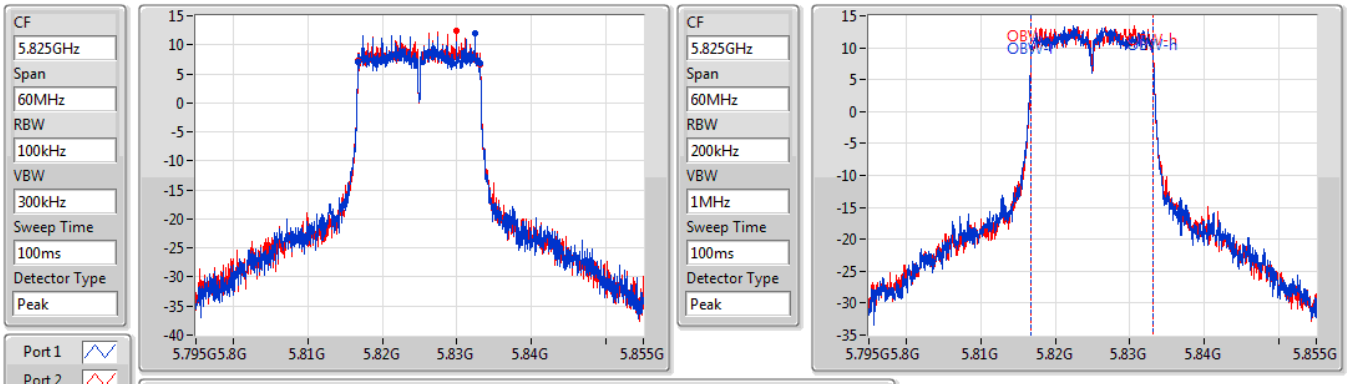


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.77678G	5.79313G	16.582M	5.776664G	5.793246G	500k	1
16.35M	5.77678G	5.79313G	16.492M	5.776694G	5.793186G	500k	2

802.11a_Nss1,(6Mbps)_2TX EBW

5825MHz

13/12/2019

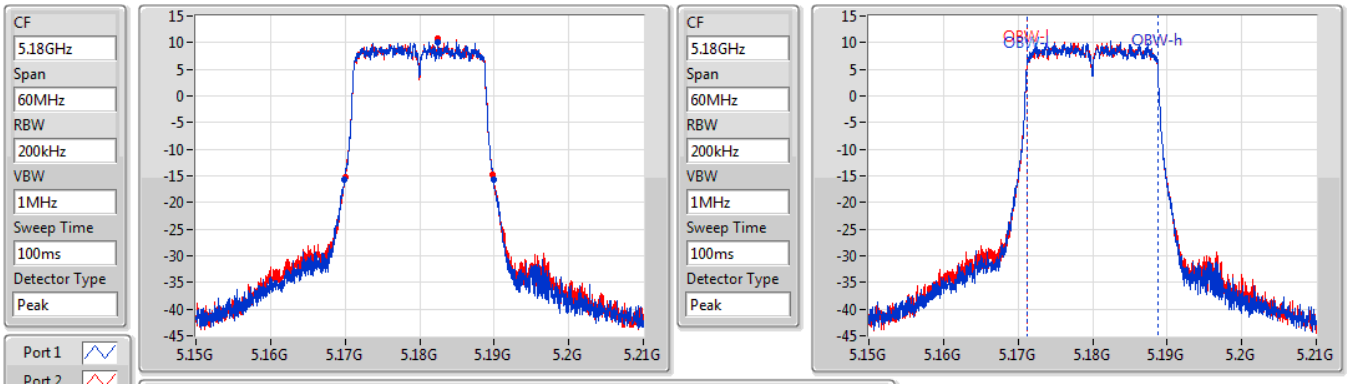


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.81678G	5.83313G	16.522M	5.816664G	5.833186G	500k	1
16.35M	5.81678G	5.83313G	16.462M	5.816724G	5.833186G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5180MHz

13/12/2019

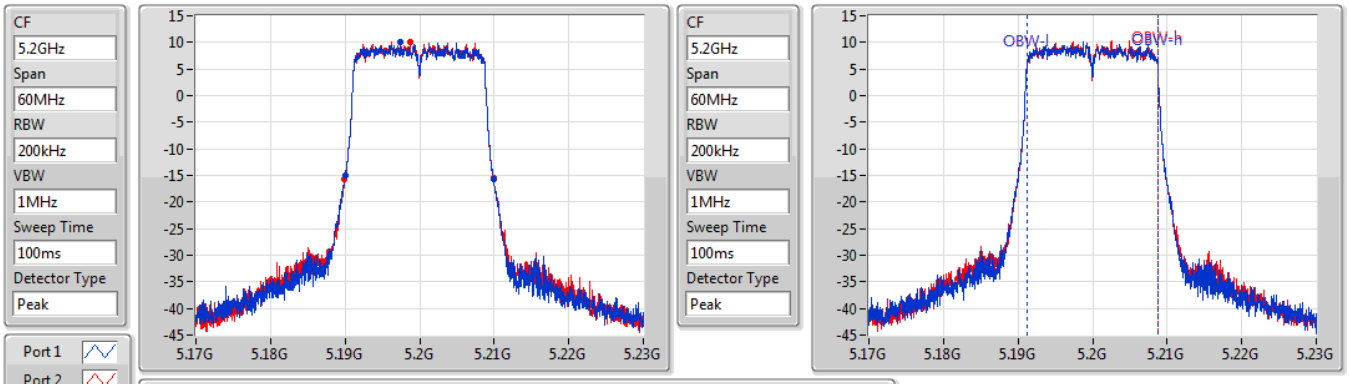


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.92M	5.16995G	5.18987G	17.601M	5.171154G	5.188756G	Inf	1
19.83M	5.17001G	5.18984G	17.571M	5.171184G	5.188756G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5200MHz

13/12/2019

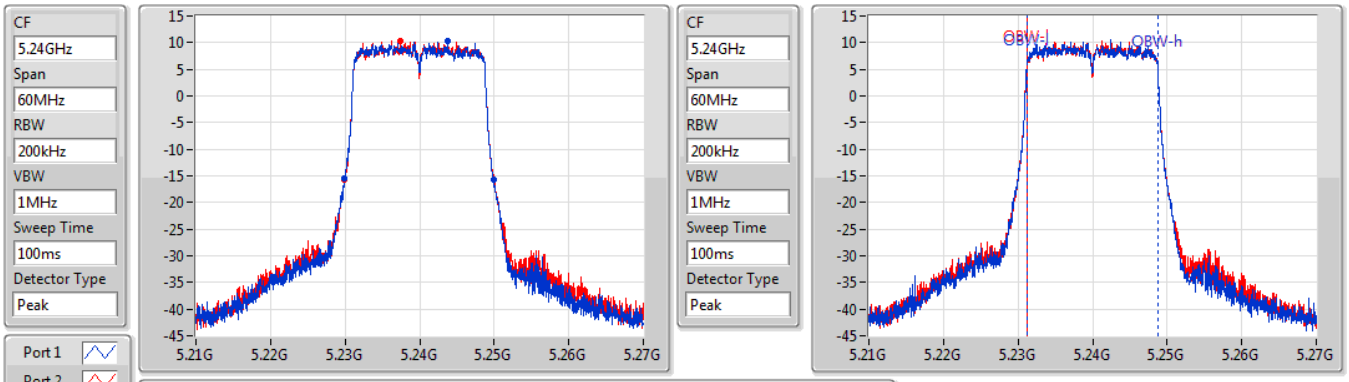


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.92M	5.18998G	5.2099G	17.601M	5.191154G	5.208756G	Inf	1
19.98M	5.18992G	5.2099G	17.571M	5.191154G	5.208726G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5240MHz

13/12/2019

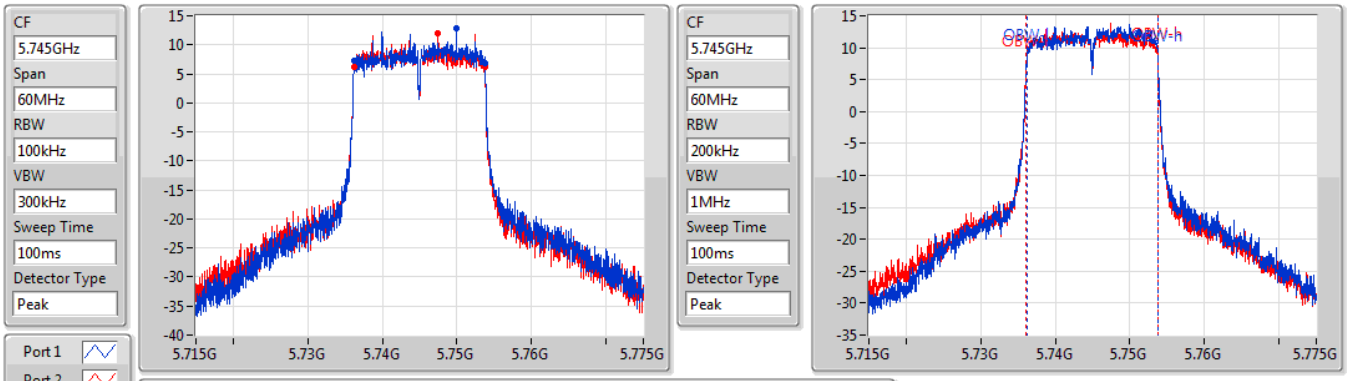


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.95M	5.22995G	5.2499G	17.601M	5.231154G	5.248756G	Inf	1
20.1M	5.22992G	5.25002G	17.571M	5.231184G	5.248756G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5745MHz

13/12/2019

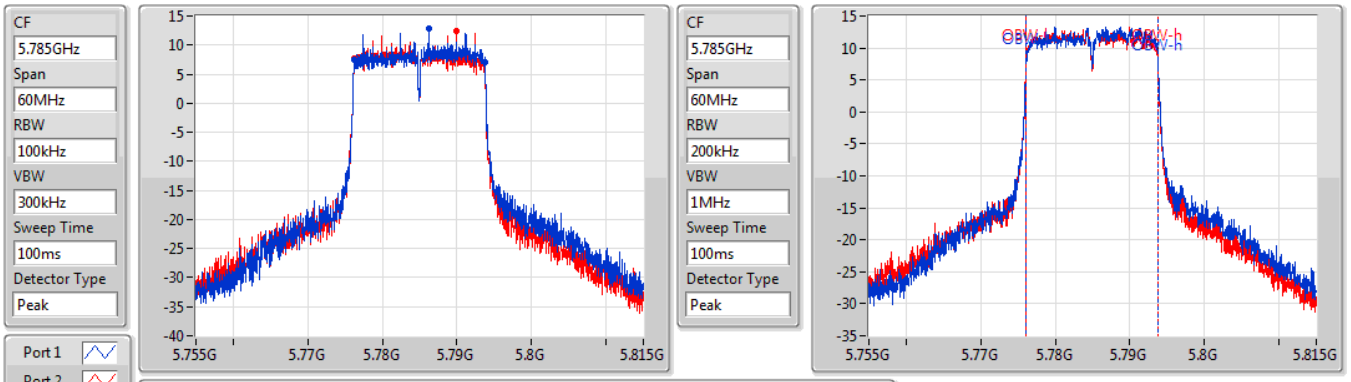


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.58M	5.73618G	5.75376G	17.631M	5.736154G	5.753786G	500k	1
17.61M	5.73615G	5.75376G	17.631M	5.736124G	5.753756G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5785MHz

13/12/2019

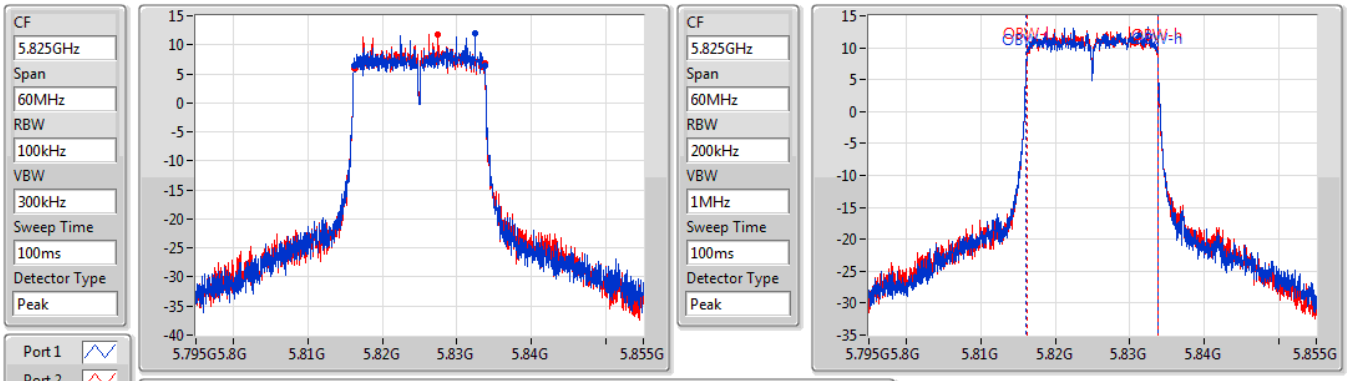


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.58M	5.77618G	5.79376G	17.691M	5.776124G	5.793816G	500k	1
17.55M	5.77618G	5.79373G	17.631M	5.776124G	5.793756G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5825MHz

13/12/2019

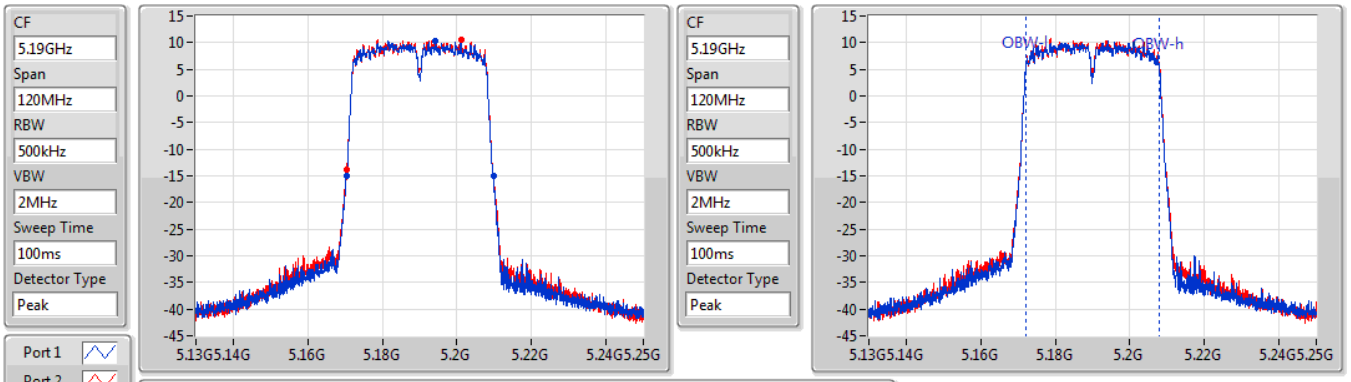


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.61M	5.81615G	5.83376G	17.661M	5.816124G	5.833786G	500k	1
17.58M	5.81615G	5.83373G	17.601M	5.816154G	5.833756G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5190MHz

13/12/2019

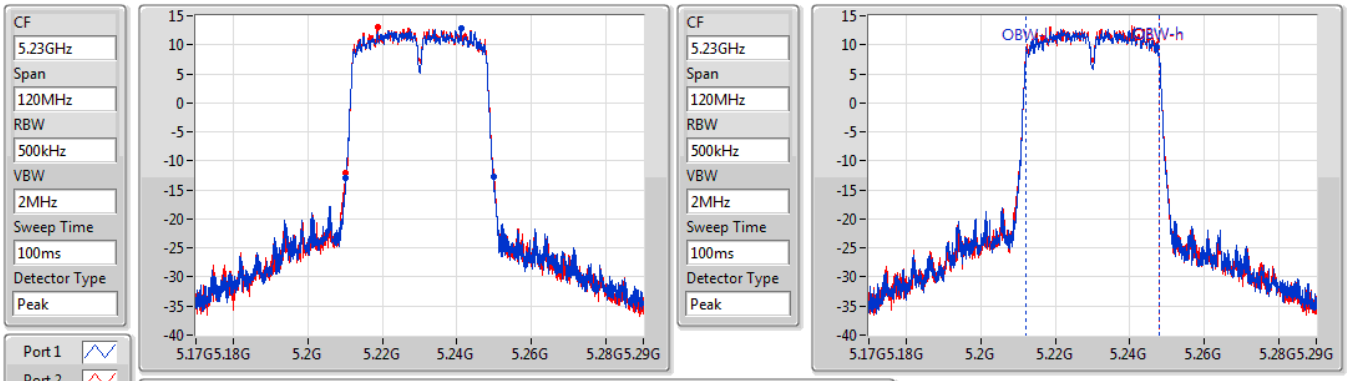


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.42M	5.17032G	5.20974G	35.862M	5.172069G	5.207931G	Inf	1
39.42M	5.17038G	5.2098G	35.862M	5.172069G	5.207931G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5230MHz

13/12/2019

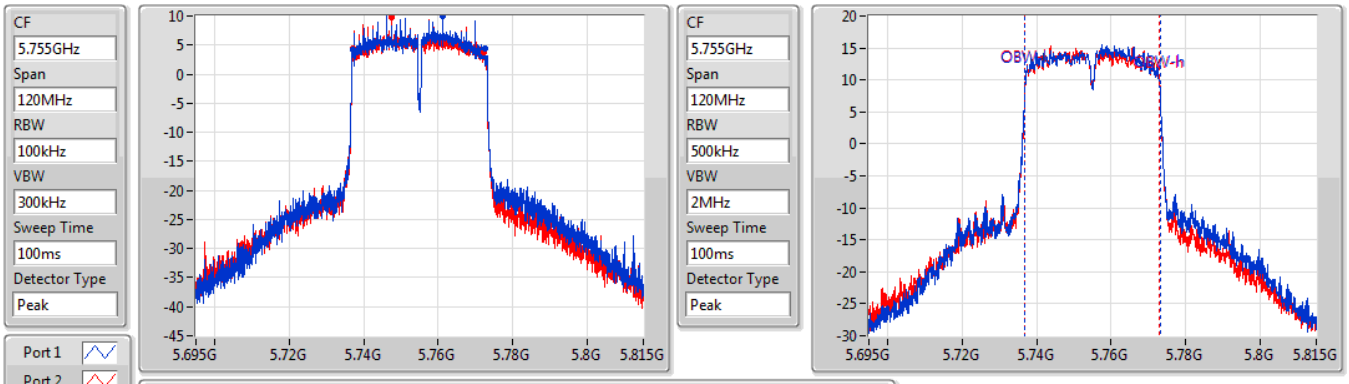


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.66M	5.21014G	5.2498G	35.922M	5.212069G	5.247991G	Inf	1
39.78M	5.21014G	5.24992G	35.922M	5.212009G	5.247931G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5755MHz

13/12/2019

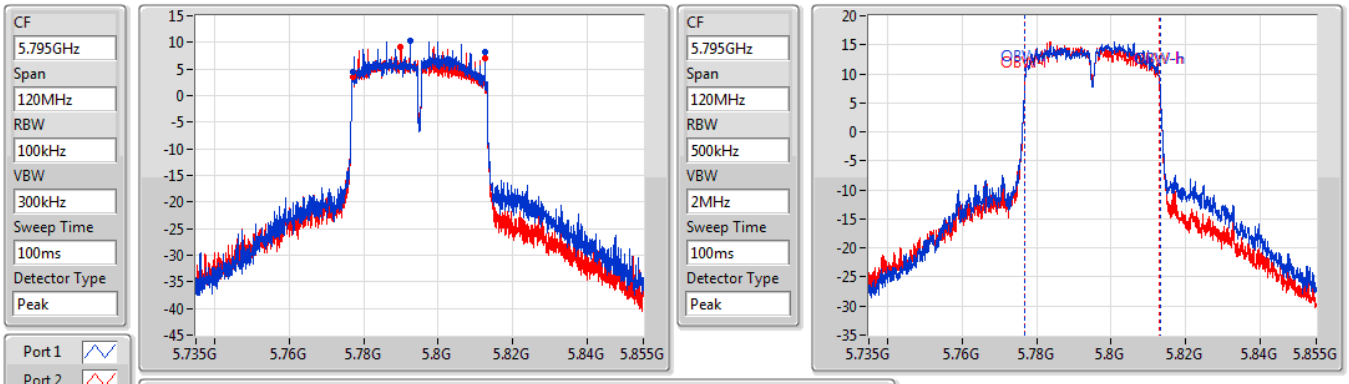


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.28M	5.73718G	5.77246G	36.162M	5.736889G	5.773051G	500k	1
34.92M	5.73718G	5.7721G	36.102M	5.736889G	5.772991G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5795MHz

13/12/2019

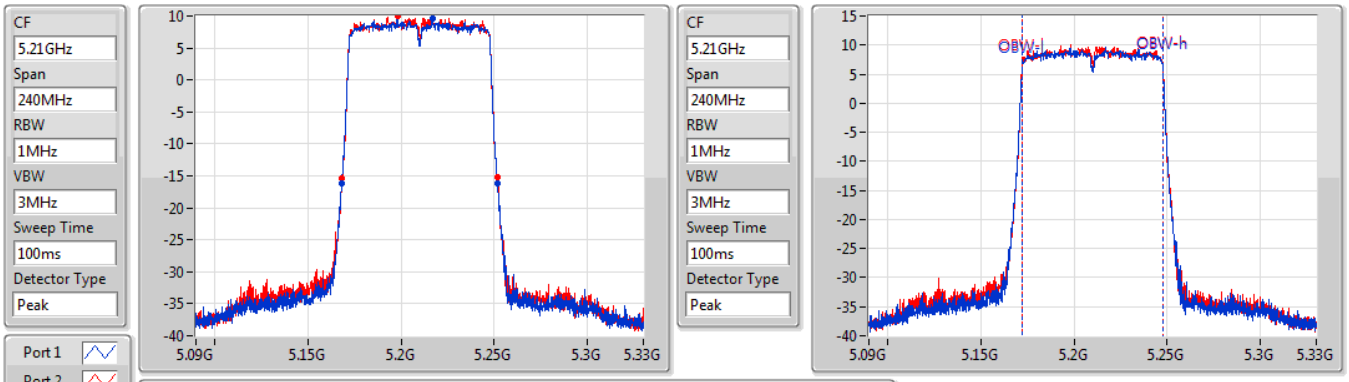


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.28M	5.77718G	5.81246G	36.222M	5.776829G	5.813051G	500k	1
35.4M	5.77706G	5.81246G	36.102M	5.776829G	5.812931G	500k	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5210MHz

13/12/2019

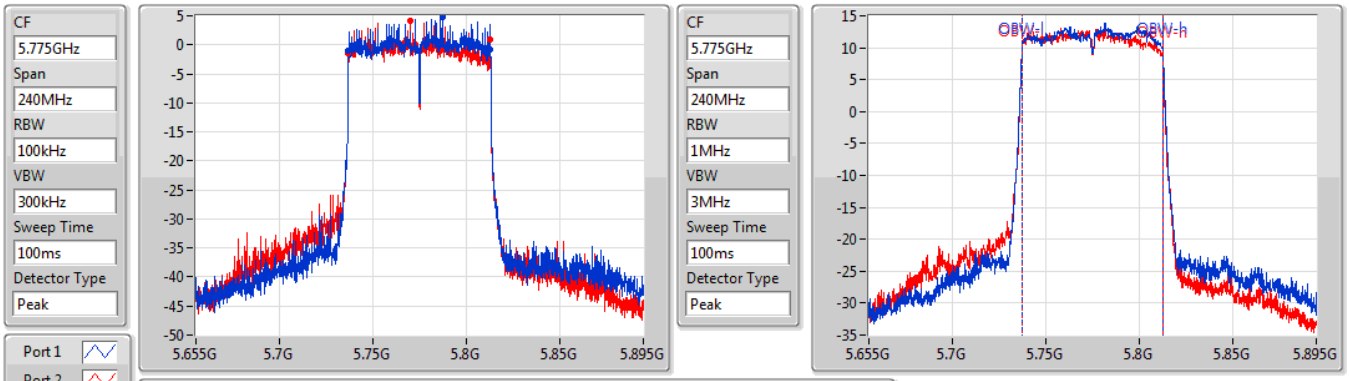


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.28M	5.16836G	5.25164G	75.682M	5.172099G	5.247781G	Inf	1
83.28M	5.16848G	5.25176G	75.682M	5.172099G	5.247781G	Inf	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5775MHz

13/12/2019



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.72M	5.73684G	5.81256G	75.562M	5.737099G	5.812661G	500k	1
75.6M	5.73684G	5.81244G	75.562M	5.736979G	5.812541G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	24.50	0.28184
802.11ac VHT20_Nss1,(MCS0)_2TX	24.72	0.29648
802.11ac VHT40_Nss1,(MCS0)_2TX	25.72	0.37325
802.11ac VHT80_Nss1,(MCS0)_2TX	21.99	0.15812
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	27.75	0.59566
802.11ac VHT20_Nss1,(MCS0)_2TX	27.77	0.59841
802.11ac VHT40_Nss1,(MCS0)_2TX	27.92	0.61944
802.11ac VHT80_Nss1,(MCS0)_2TX	25.23	0.33343

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.60	21.34	21.53	24.45	30.00
5200MHz	Pass	5.60	21.39	21.59	24.50	30.00
5240MHz	Pass	5.60	21.32	21.65	24.50	30.00
5745MHz	Pass	5.90	24.74	24.45	27.61	30.00
5785MHz	Pass	5.90	24.83	24.64	27.75	30.00
5825MHz	Pass	5.90	24.21	24.41	27.32	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.60	21.48	21.67	24.59	30.00
5200MHz	Pass	5.60	21.43	21.75	24.60	30.00
5240MHz	Pass	5.60	21.61	21.81	24.72	30.00
5745MHz	Pass	5.90	24.83	24.56	27.71	30.00
5785MHz	Pass	5.90	24.87	24.65	27.77	30.00
5825MHz	Pass	5.90	24.35	24.49	27.43	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.60	20.22	20.25	23.25	30.00
5230MHz	Pass	5.60	22.70	22.71	25.72	30.00
5755MHz	Pass	5.90	25.06	24.68	27.88	30.00
5795MHz	Pass	5.90	25.16	24.65	27.92	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.60	18.87	19.09	21.99	30.00
5775MHz	Pass	5.90	22.53	21.89	25.23	30.00

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	11.67
802.11ac VHT20_Nss1,(MCS0)_2TX	11.09
802.11ac VHT40_Nss1,(MCS0)_2TX	9.35
802.11ac VHT80_Nss1,(MCS0)_2TX	2.37
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	13.23
802.11ac VHT20_Nss1,(MCS0)_2TX	12.77
802.11ac VHT40_Nss1,(MCS0)_2TX	10.28
802.11ac VHT80_Nss1,(MCS0)_2TX	4.47

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

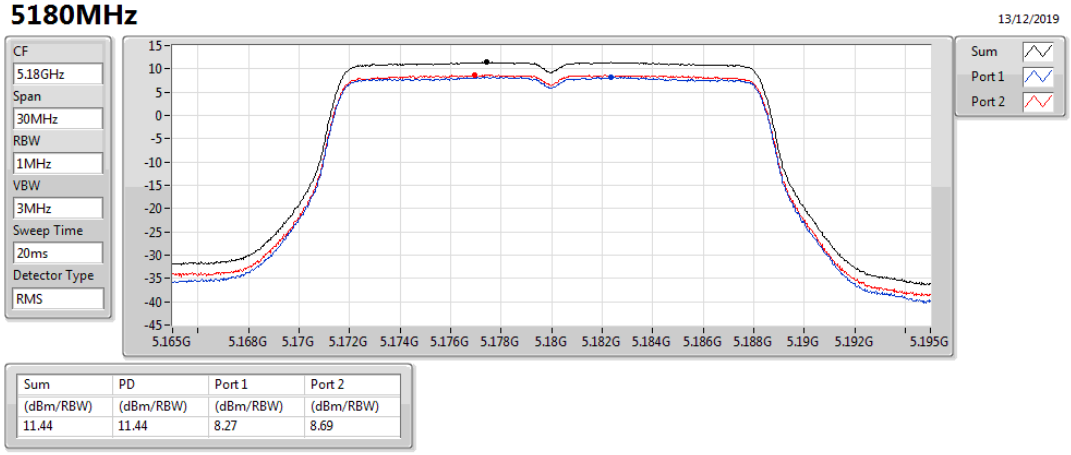
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.61	8.27	8.69	11.44	14.39
5200MHz	Pass	8.61	8.31	8.79	11.57	14.39
5240MHz	Pass	8.61	8.49	8.89	11.67	14.39
5745MHz	Pass	8.28	10.35	10.05	13.11	27.72
5785MHz	Pass	8.28	10.43	10.22	13.23	27.72
5825MHz	Pass	8.28	9.82	9.83	12.74	27.72
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.61	7.94	8.10	10.94	14.39
5200MHz	Pass	8.61	7.85	8.12	10.95	14.39
5240MHz	Pass	8.61	8.04	8.18	11.09	14.39
5745MHz	Pass	8.28	10.22	9.51	12.76	27.72
5785MHz	Pass	8.28	10.09	9.65	12.77	27.72
5825MHz	Pass	8.28	9.27	9.28	12.16	27.72
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.61	3.96	4.04	6.91	14.39
5230MHz	Pass	8.61	6.49	6.38	9.35	14.39
5755MHz	Pass	8.28	7.72	6.93	10.28	27.72
5795MHz	Pass	8.28	7.79	6.99	10.15	27.72
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.61	-0.54	-0.57	2.37	14.39
5775MHz	Pass	8.28	2.11	0.84	4.47	27.72

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX PSD

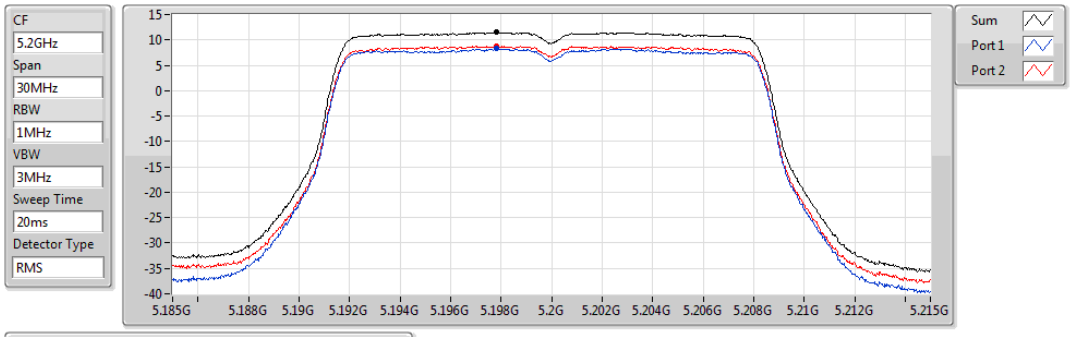
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.44	11.44	8.27	8.69

802.11a_Nss1,(6Mbps)_2TX PSD

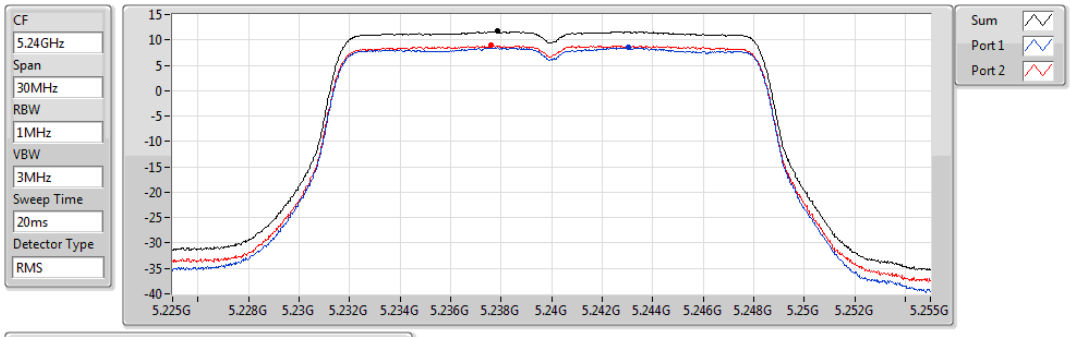
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.57	11.57	8.31	8.79

802.11a_Nss1,(6Mbps)_2TX PSD

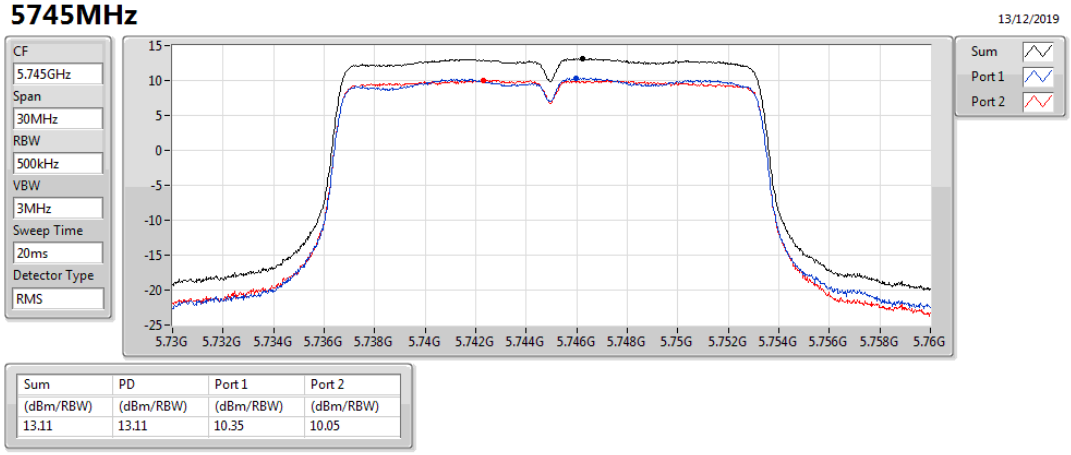
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.67	11.67	8.49	8.89

802.11a_Nss1,(6Mbps)_2TX PSD

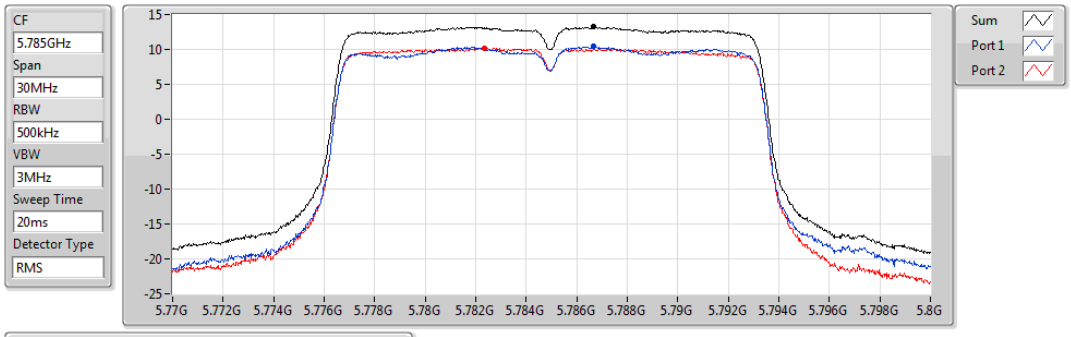
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.11	13.11	10.35	10.05

802.11a_Nss1,(6Mbps)_2TX PSD

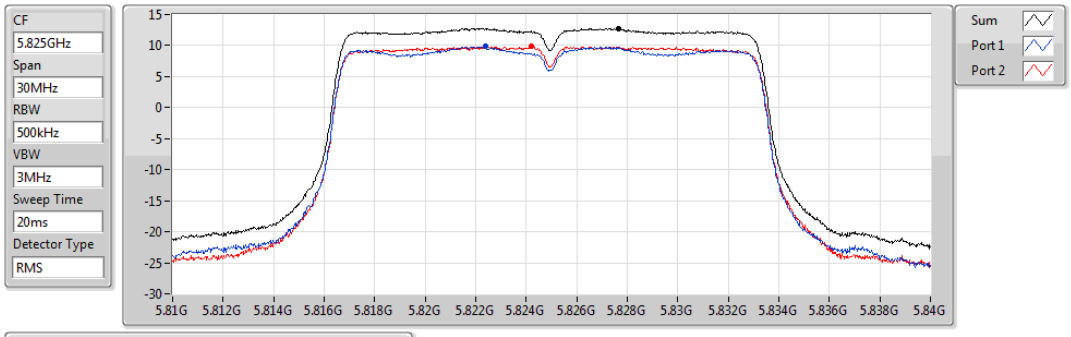
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.23	13.23	10.43	10.22

802.11a_Nss1,(6Mbps)_2TX PSD

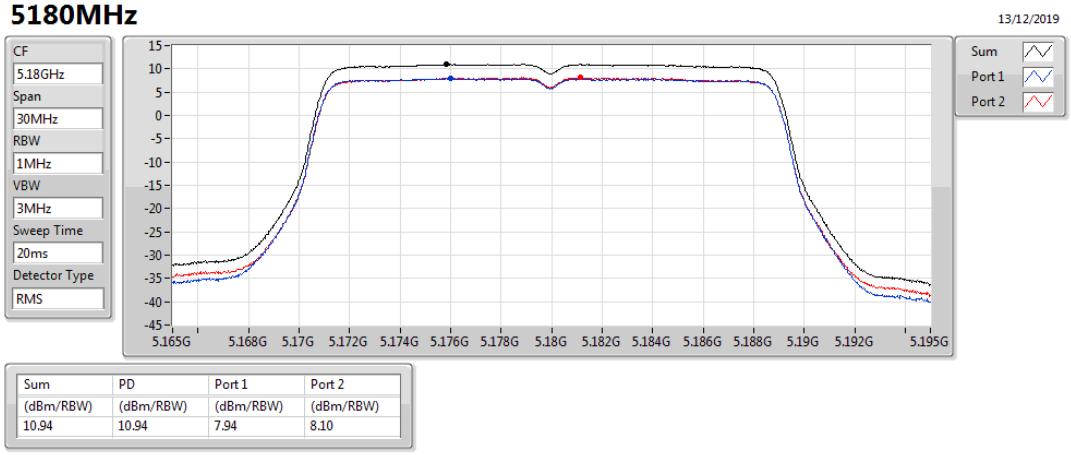
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.74	12.74	9.82	9.83

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

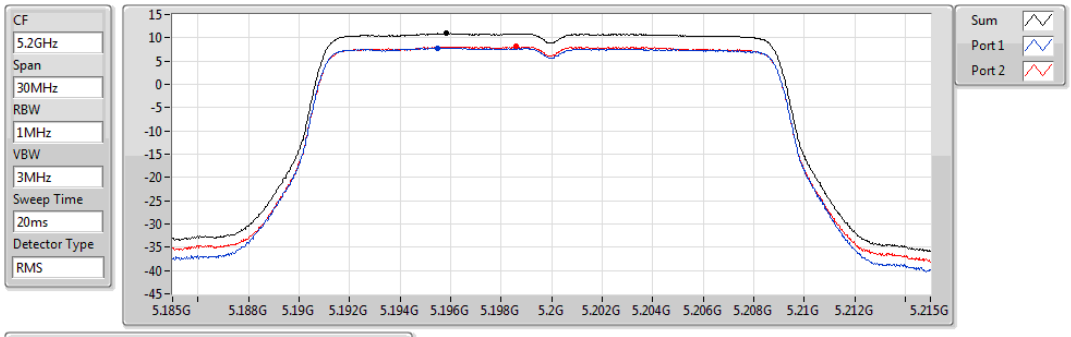
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.94	10.94	7.94	8.10

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

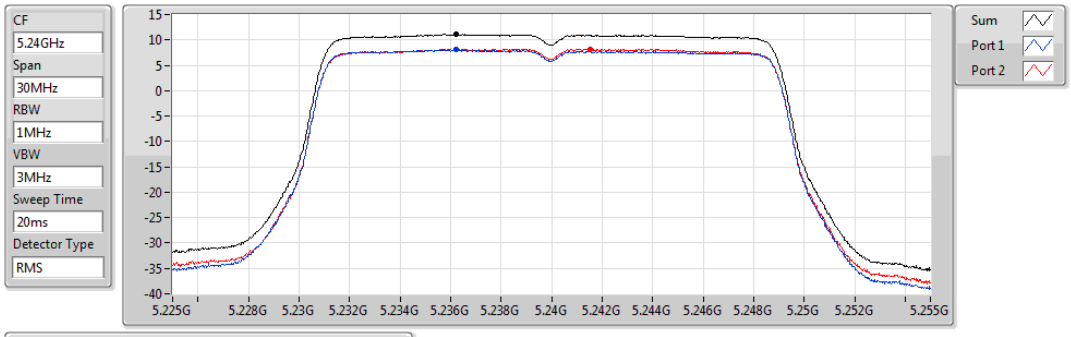
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.95	10.95	7.85	8.12

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

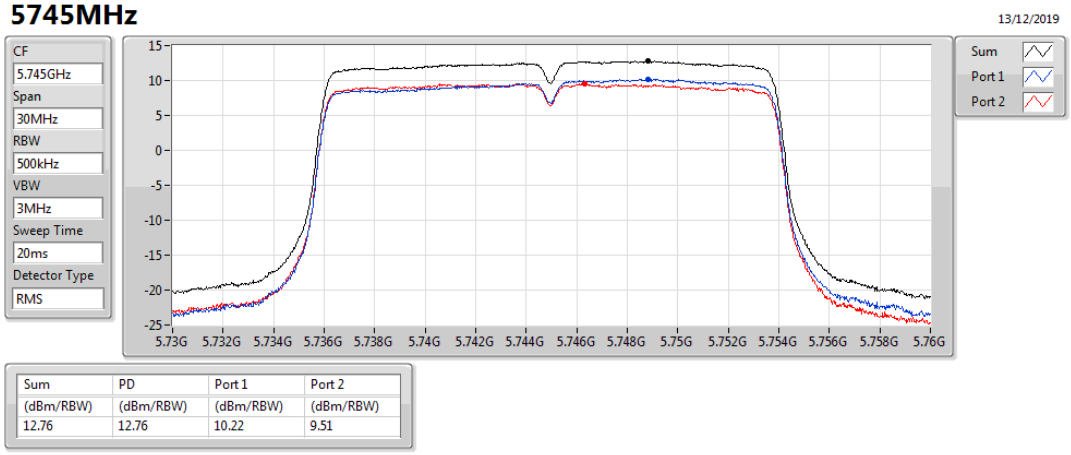
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.09	11.09	8.04	8.18

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

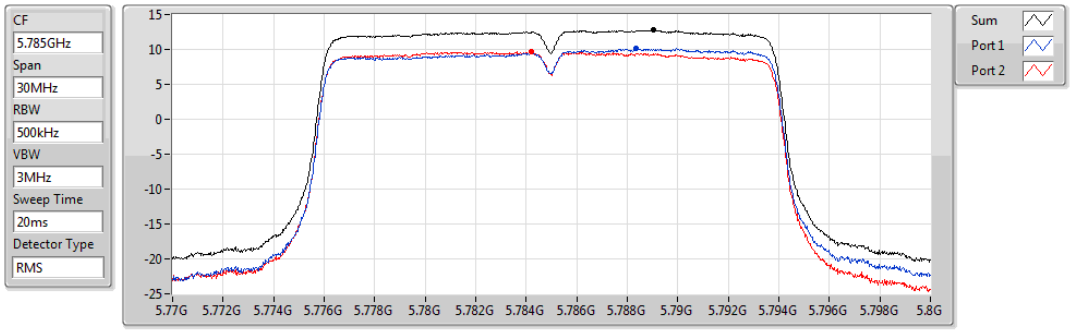
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.76	12.76	10.22	9.51

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

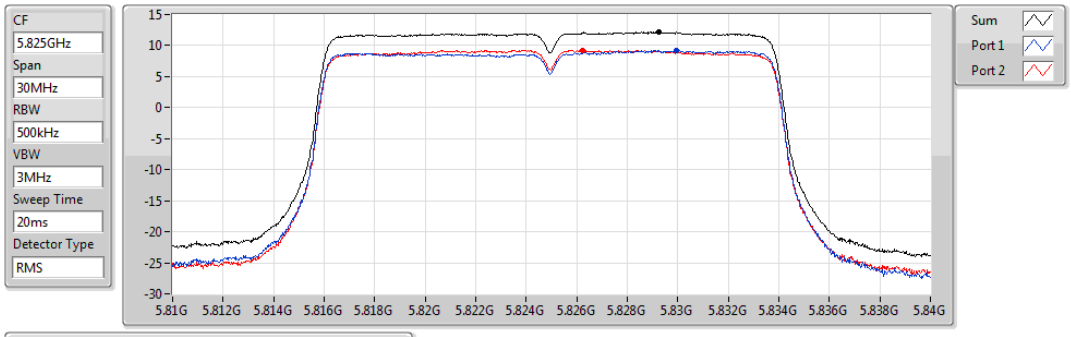
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.77	12.77	10.09	9.65

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

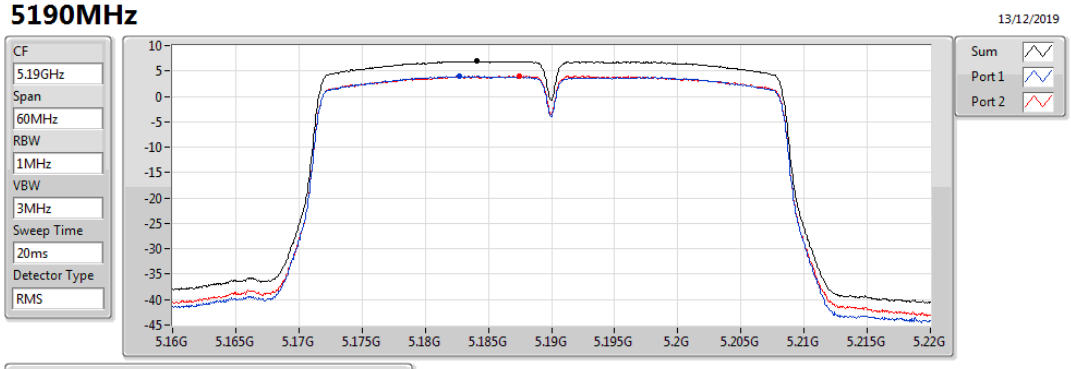
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.16	12.16	9.27	9.28

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

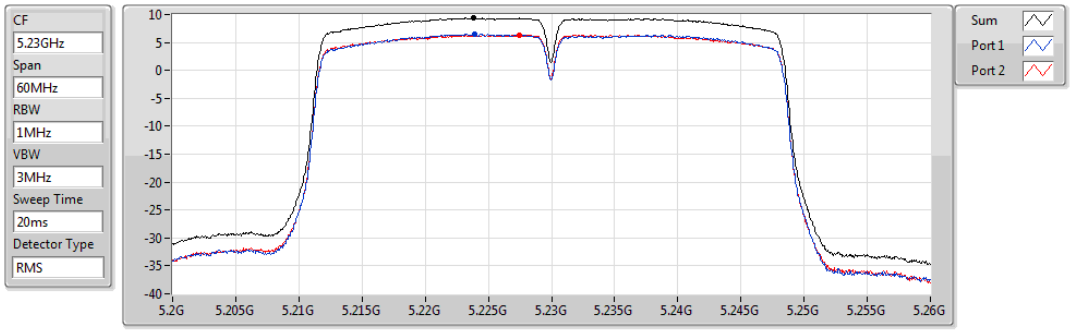
5190MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.91	6.91	3.96	4.04

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

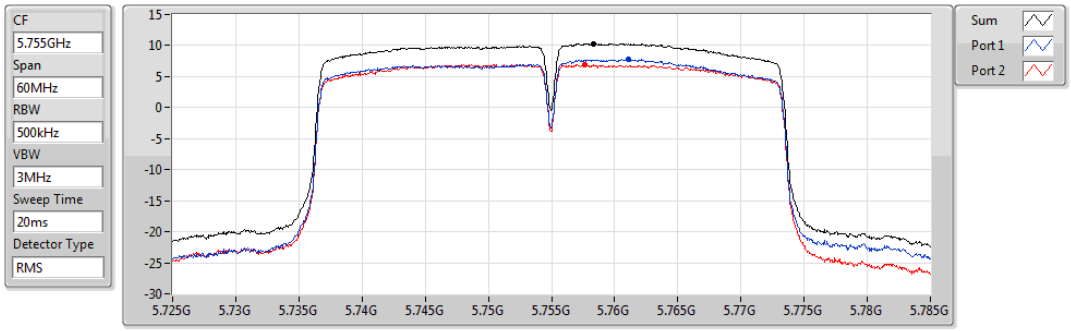
5230MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.35	9.35	6.49	6.38

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

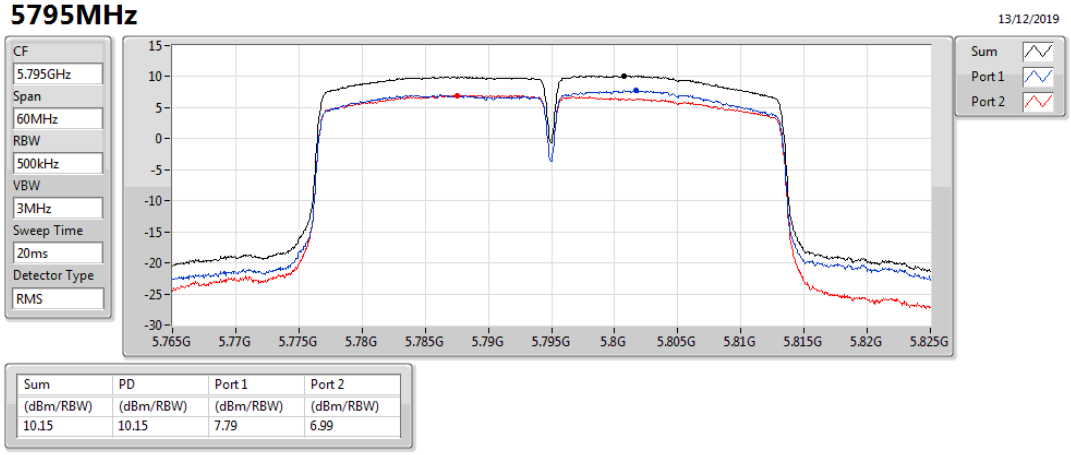
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.28	10.28	7.72	6.93

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

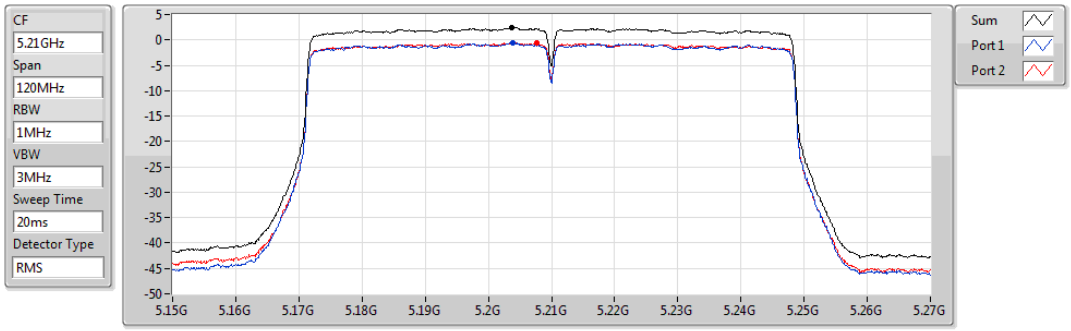
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.15	10.15	7.79	6.99

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

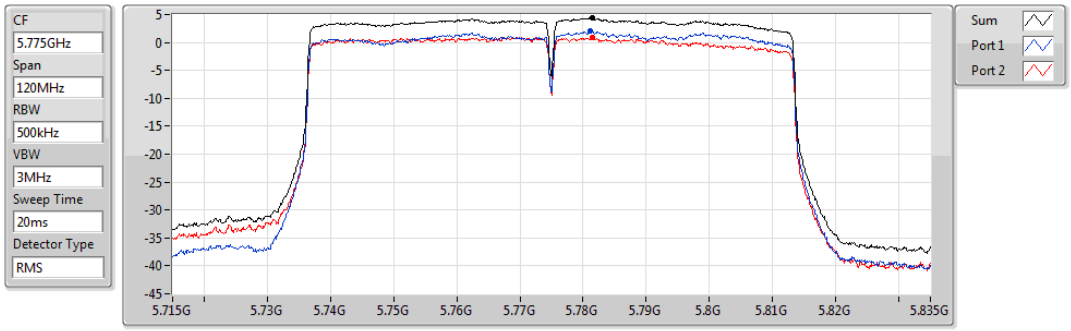
5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.37	2.37	-0.54	-0.57

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

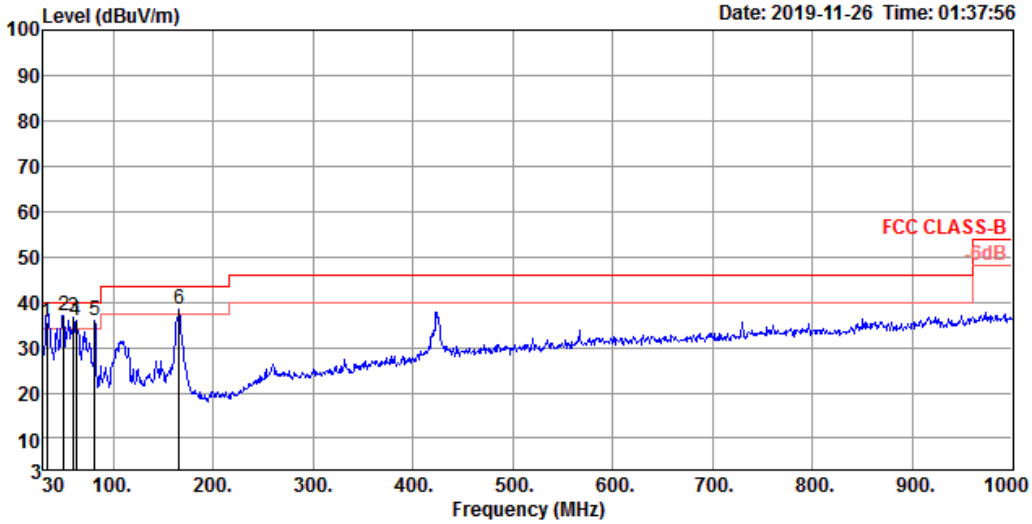
5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.47	4.47	2.11	0.84

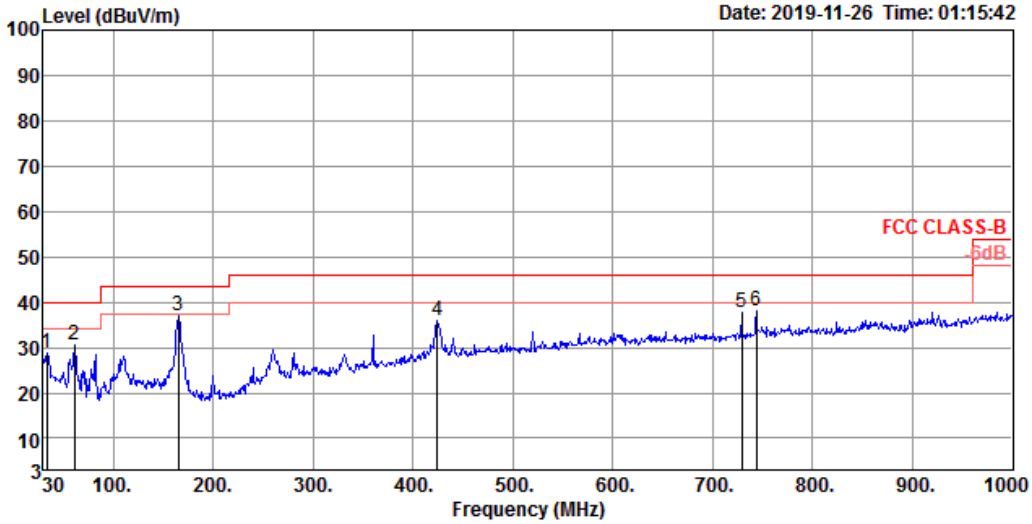
Test Mode	Mode 4	Frequency Range	30 MHz to 1,000 MHz

Vertical 30 MHz to 1,000 MHz



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	33.88	35.68	40.00	-4.32	45.10	1.08	21.94	32.44	110	108	QP	VERTICAL
2	50.37	36.96	40.00	-3.04	54.53	1.32	13.83	32.72	300	304	Peak	VERTICAL
3	60.07	36.66	40.00	-3.34	55.58	1.44	12.16	32.52	100	11	Peak	VERTICAL
4	62.98	35.76	40.00	-4.24	54.75	1.48	12.00	32.47	100	174	Peak	VERTICAL
5	81.41	36.04	40.00	-3.96	53.98	1.68	12.87	32.49	100	91	Peak	VERTICAL
6	165.80	38.32	43.50	-5.18	52.69	2.38	15.70	32.45	100	36	Peak	VERTICAL

Horizontal 30 MHz to 1,000 MHz



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	33.88	28.85	40.00	-11.15	38.27	1.08	21.94	32.44	100	360	Peak	HORIZONTAL
2	61.04	30.65	40.00	-9.35	49.59	1.45	12.11	32.50	200	93	Peak	HORIZONTAL
3	164.83	37.06	43.50	-6.44	51.40	2.38	15.74	32.46	200	93	Peak	HORIZONTAL
4	424.79	36.10	46.00	-9.90	41.92	4.03	22.41	32.26	100	106	Peak	HORIZONTAL
5	729.37	37.75	46.00	-8.25	39.47	5.39	25.09	32.20	150	255	Peak	HORIZONTAL
6	743.92	38.14	46.00	-7.86	39.48	5.45	25.31	32.10	150	224	Peak	HORIZONTAL

Summary

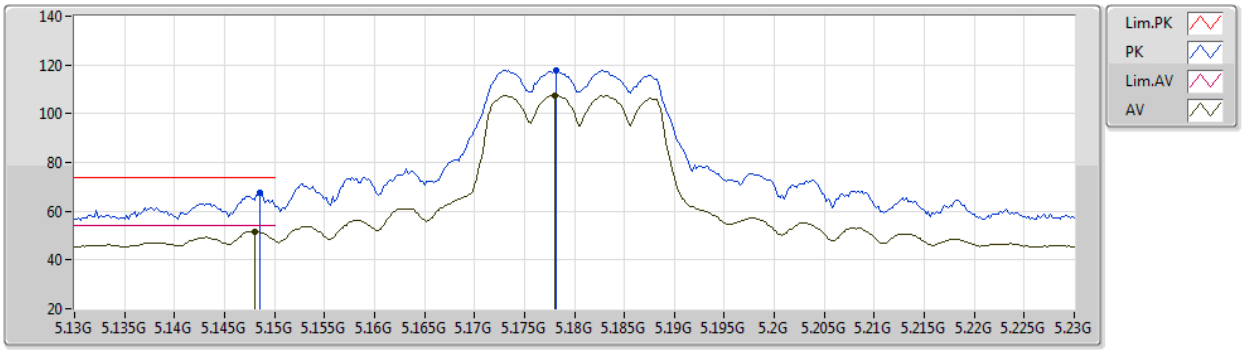
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.138G	53.35	54.00	-0.65	3	Vertical	22	1.80	-

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

10/12/2019

5180MHz_TX



EUT X_2TX
Setting 21
01-B-G-2-10

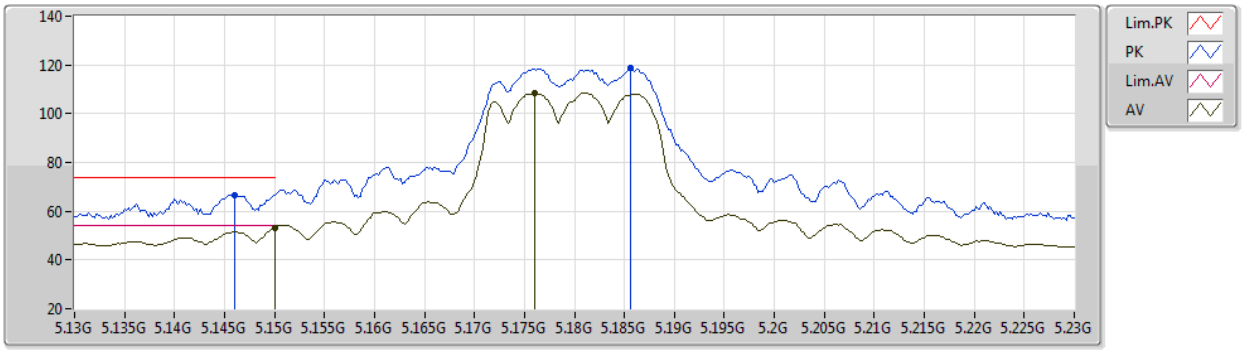
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1486G	67.53	74.00	-6.47	63.31	3	Vertical	15	2.04	-	32.80	5.87	34.45
AV	5.148G	51.65	54.00	-2.35	47.43	3	Vertical	15	2.04	-	32.80	5.87	34.45
PK	5.1782G	117.81	Inf	-Inf	113.58	3	Vertical	15	2.04	-	32.80	5.89	34.46
AV	5.178G	107.61	Inf	-Inf	103.38	3	Vertical	15	2.04	-	32.80	5.89	34.46

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

10/12/2019



EUT X_2TX
Setting 21
01-B-G-2-10

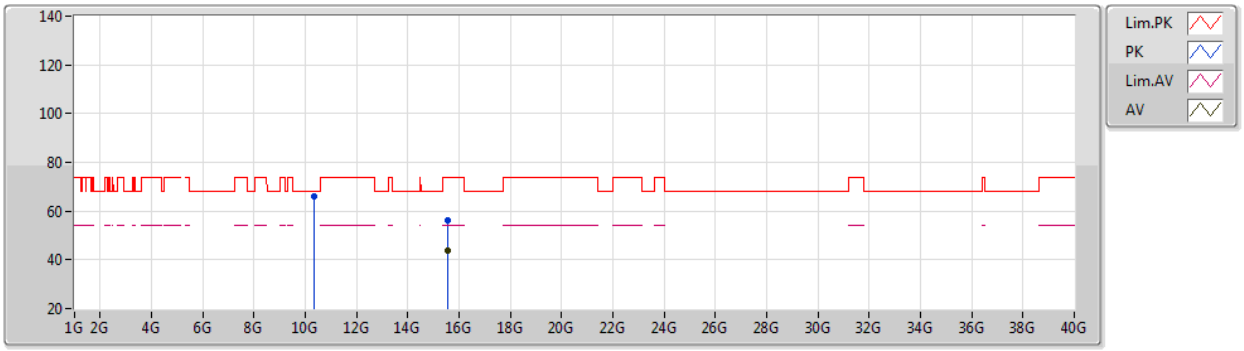
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.146G	66.49	74.00	-7.51	62.27	3	Horizontal	9	1.78	-	32.80	5.87	34.45
AV	5.15G	53.06	54.00	-0.94	48.84	3	Horizontal	9	1.78	-	32.80	5.87	34.45
PK	5.1856G	118.71	Inf	-Inf	114.48	3	Horizontal	9	1.78	-	32.80	5.89	34.46
AV	5.176G	108.45	Inf	-Inf	104.22	3	Horizontal	9	1.78	-	32.80	5.89	34.46

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

10/12/2019



EUT X_2TX
Setting 21
01-B-G-2

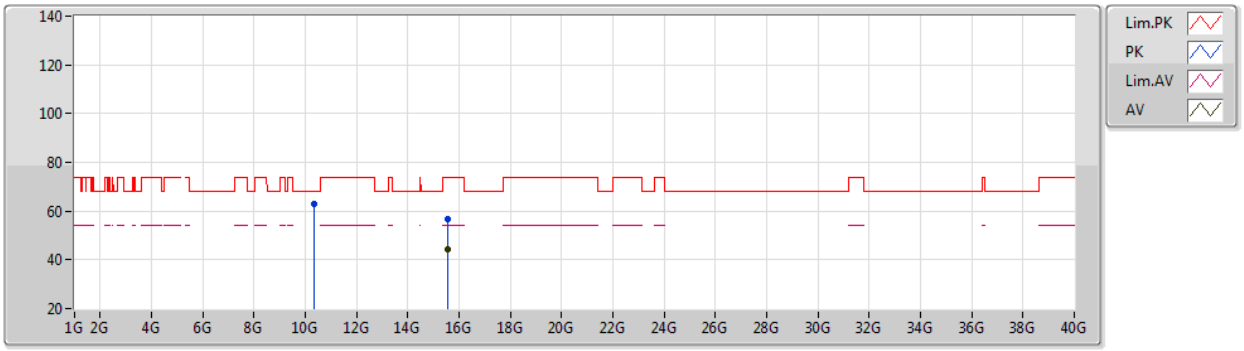
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.3594G	65.88	68.20	-2.32	53.95	3	Vertical	56	2.19	-	38.21	8.91	35.19
PK	15.53676G	56.39	74.00	-17.61	42.48	3	Vertical	59	1.80	-	38.77	9.79	34.65
AV	15.54126G	43.59	54.00	-10.41	29.69	3	Vertical	59	1.80	-	38.77	9.79	34.66

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

10/12/2019



EUT X_2TX
Setting 21
01-B-G-2

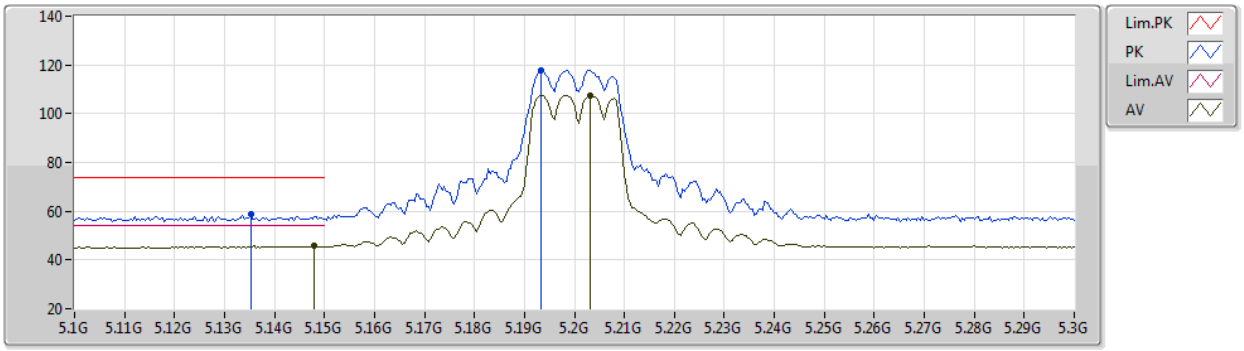
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.35396G	63.08	68.20	-5.12	51.16	3	Horizontal	57	1.78	-	38.21	8.91	35.20
PK	15.5419G	56.76	74.00	-17.24	42.51	3	Horizontal	69	2.41	-	38.87	10.36	34.98
AV	15.54134G	44.19	54.00	-9.81	29.93	3	Horizontal	69	2.41	-	38.88	10.36	34.98

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

10/12/2019



EUT X_2TX
Setting 21
01-B-G-2-10

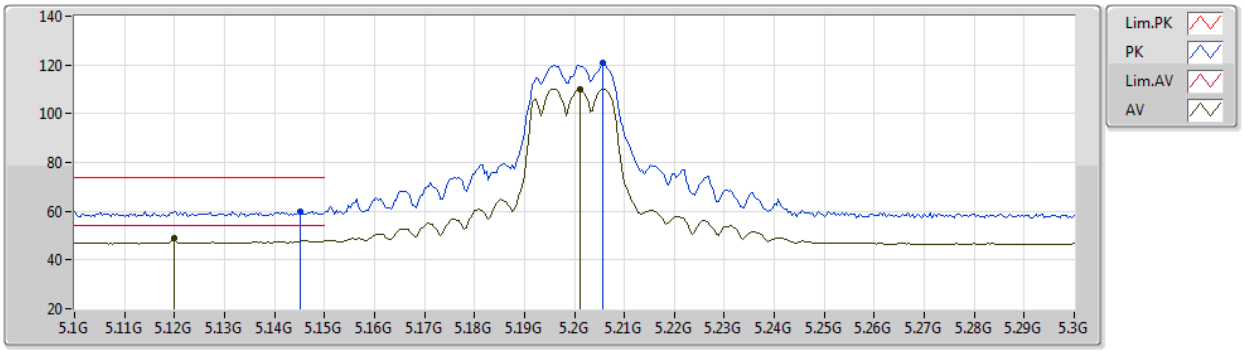
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1352G	58.69	74.00	-15.31	54.47	3	Vertical	14	2.16	-	32.80	5.87	34.45
AV	5.148G	45.72	54.00	-8.28	41.50	3	Vertical	14	2.16	-	32.80	5.87	34.45
PK	5.1932G	118.01	Inf	-Inf	113.77	3	Vertical	14	2.16	-	32.80	5.90	34.46
AV	5.2032G	107.53	Inf	-Inf	103.27	3	Vertical	14	2.16	-	32.81	5.91	34.46

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

10/12/2019



EUT X_2TX
Setting 21
01-B-G-2-10

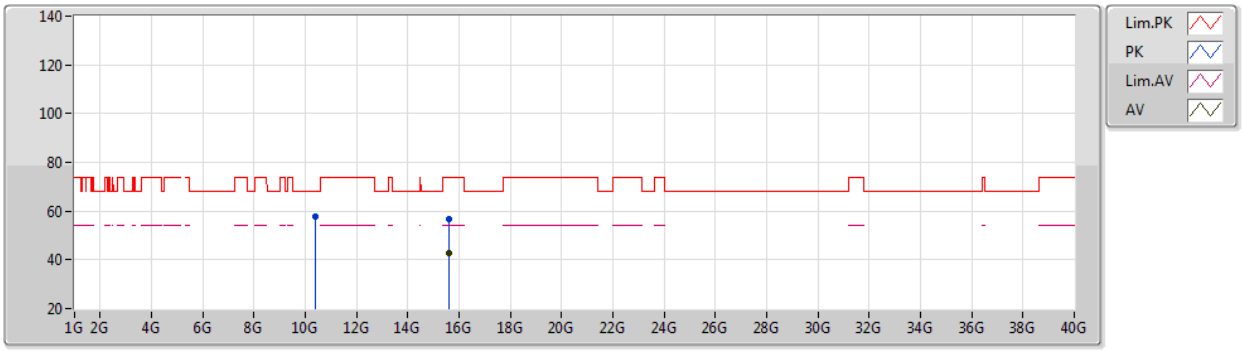
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1452G	59.88	74.00	-14.12	54.20	3	Horizontal	12	1.87	-	34.05	6.60	34.97
AV	5.12G	49.02	54.00	-4.98	43.41	3	Horizontal	12	1.87	-	34.02	6.56	34.97
PK	5.2056G	120.62	Inf	-Inf	114.79	3	Horizontal	12	1.87	-	34.11	6.70	34.98
AV	5.2012G	110.25	Inf	-Inf	104.43	3	Horizontal	12	1.87	-	34.10	6.70	34.98

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

10/12/2019



EUT X_2TX
Setting 21
01-B-G-2

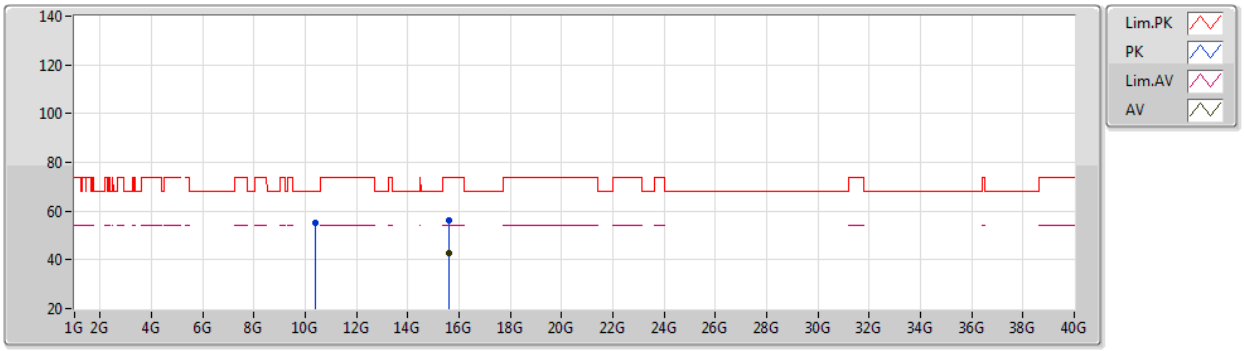
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.40114G	58.00	68.20	-10.20	46.02	3	Vertical	312	1.90	-	38.22	8.92	35.16
PK	15.60204G	56.89	74.00	-17.11	43.12	3	Vertical	214	1.64	-	38.72	9.78	34.73
AV	15.60018G	42.99	54.00	-11.01	29.21	3	Vertical	214	1.64	-	38.72	9.78	34.72

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

10/12/2019



EUT X_2TX
Setting 21
01-B-G-2

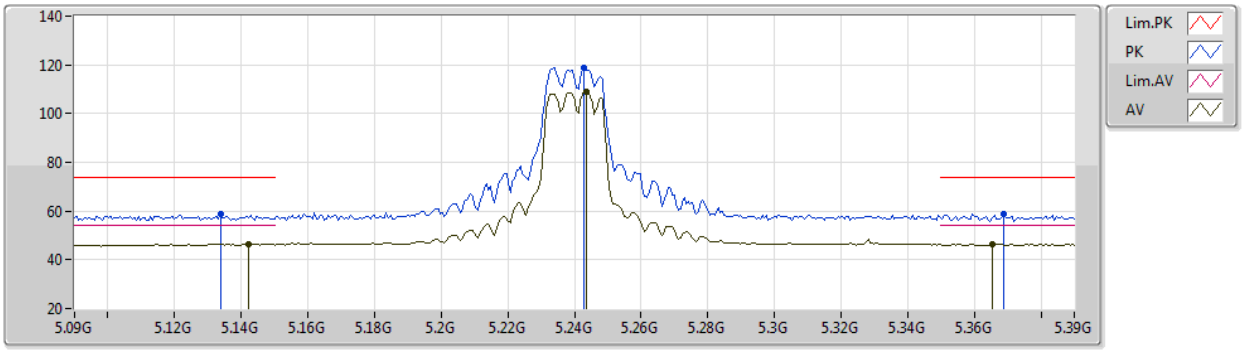
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.41266G	55.29	68.20	-12.91	43.29	3	Horizontal	296	1.86	-	38.22	8.93	35.15
PK	15.59658G	56.30	74.00	-17.70	42.52	3	Horizontal	268	2.43	-	38.72	9.78	34.72
AV	15.59676G	42.93	54.00	-11.07	29.15	3	Horizontal	268	2.43	-	38.72	9.78	34.72

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

10/12/2019



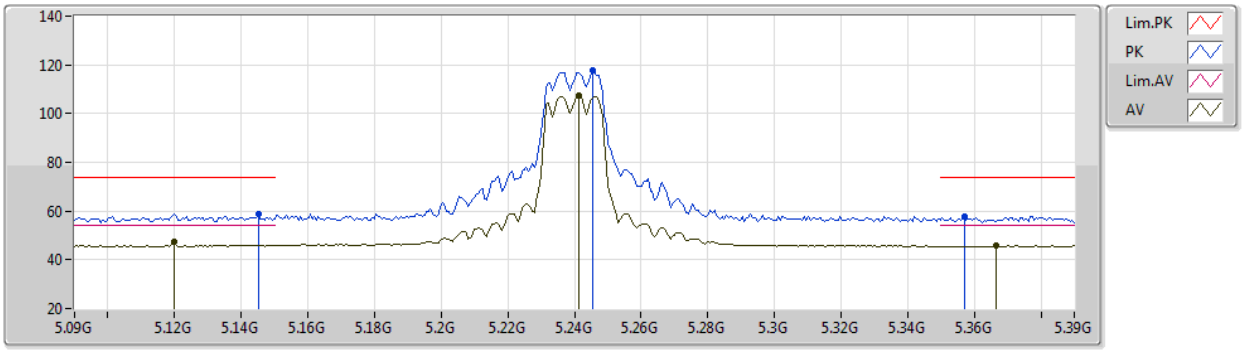
EUT X_2TX
Setting 21
03-C-C-4-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1338G	58.61	74.00	-15.39	52.97	3	Vertical	15	1.96	-	34.03	6.58	34.97
AV	5.1422G	46.61	54.00	-7.39	40.94	3	Vertical	15	1.96	-	34.04	6.60	34.97
PK	5.243G	118.78	Inf	-Inf	112.89	3	Vertical	15	1.96	-	34.19	6.68	34.98
AV	5.2436G	108.78	Inf	-Inf	102.89	3	Vertical	15	1.96	-	34.19	6.68	34.98
PK	5.369G	58.64	74.00	-15.36	52.64	3	Vertical	15	1.96	-	34.37	6.62	34.99
AV	5.3654G	46.42	54.00	-7.58	40.42	3	Vertical	15	1.96	-	34.37	6.62	34.99

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

10/12/2019



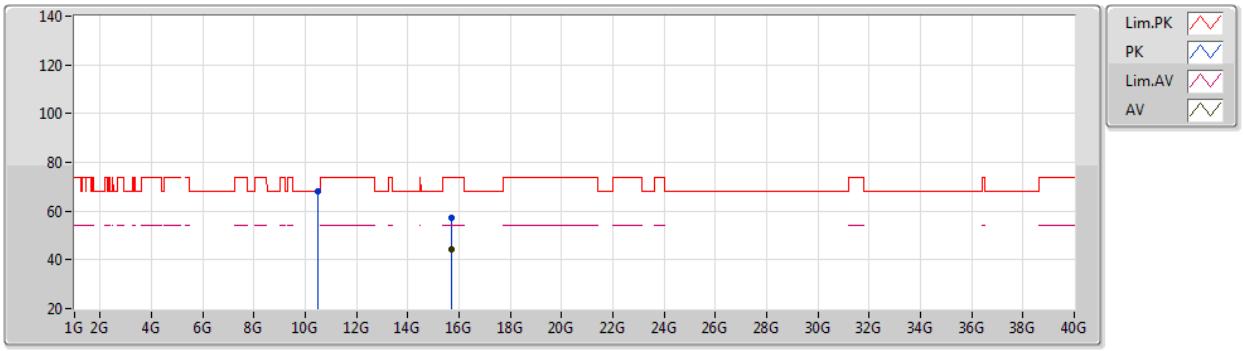
EUT X_2TX
Setting 21
03-C-C-4-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1452G	58.64	74.00	-15.36	52.96	3	Horizontal	11	1.80	-	34.05	6.60	34.97
AV	5.12G	47.19	54.00	-6.81	41.58	3	Horizontal	11	1.80	-	34.02	6.56	34.97
PK	5.2454G	117.68	Inf	-Inf	111.79	3	Horizontal	11	1.80	-	34.19	6.68	34.98
AV	5.2412G	107.38	Inf	-Inf	101.50	3	Horizontal	11	1.80	-	34.18	6.68	34.98
PK	5.357G	57.92	74.00	-16.08	51.93	3	Horizontal	11	1.80	-	34.36	6.62	34.99
AV	5.3666G	45.79	54.00	-8.21	39.79	3	Horizontal	11	1.80	-	34.37	6.62	34.99

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

10/12/2019



EUT X_2TX
Setting 21
03-C-C-4

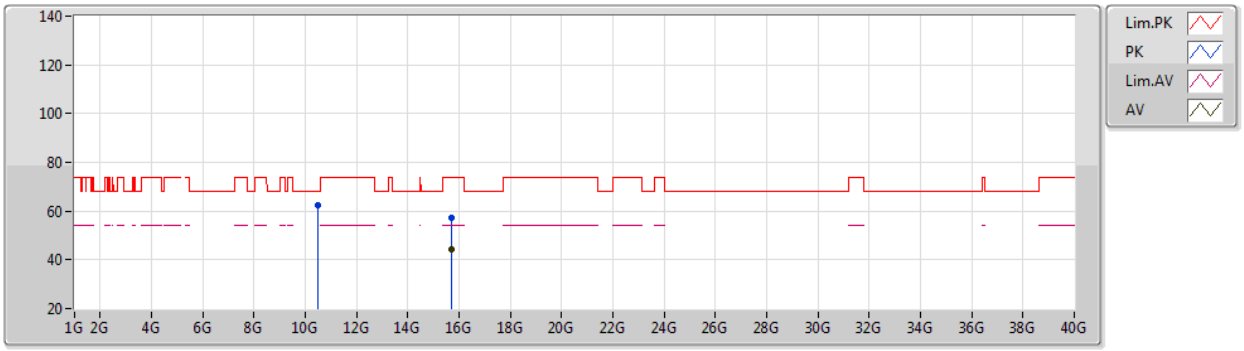
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.4812G	67.88	68.20	-0.32	55.10	3	Vertical	57	2.41	-	38.40	9.43	35.05
PK	15.71502G	57.32	74.00	-16.68	43.79	3	Vertical	326	1.80	-	38.35	10.34	35.16
AV	15.71958G	44.38	54.00	-9.62	30.86	3	Vertical	326	1.80	-	38.34	10.34	35.16

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

10/12/2019



EUT X_2TX
Setting 21
03-C-C-4

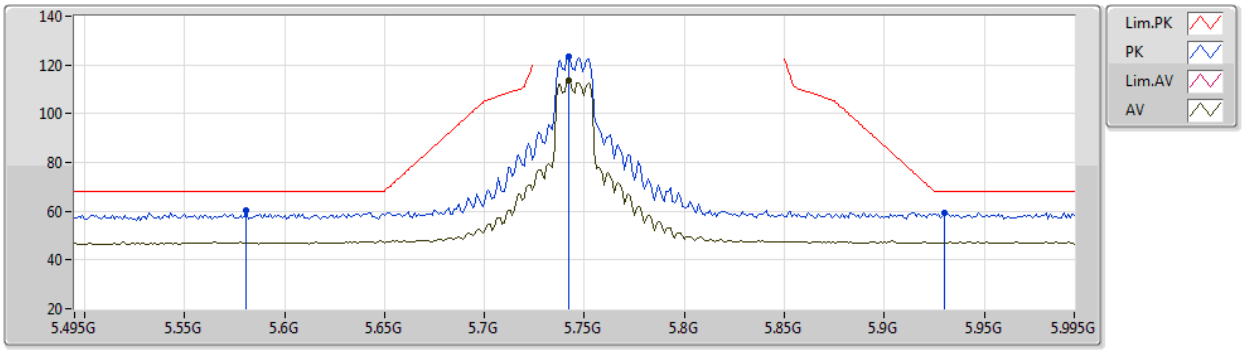
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.48126G	62.28	68.20	-5.92	49.50	3	Horizontal	309	1.97	-	38.40	9.43	35.05
PK	15.70842G	57.46	74.00	-16.54	43.90	3	Horizontal	32	1.80	-	38.37	10.34	35.15
AV	15.72054G	44.33	54.00	-9.67	30.81	3	Horizontal	32	1.80	-	38.34	10.34	35.16

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3-10

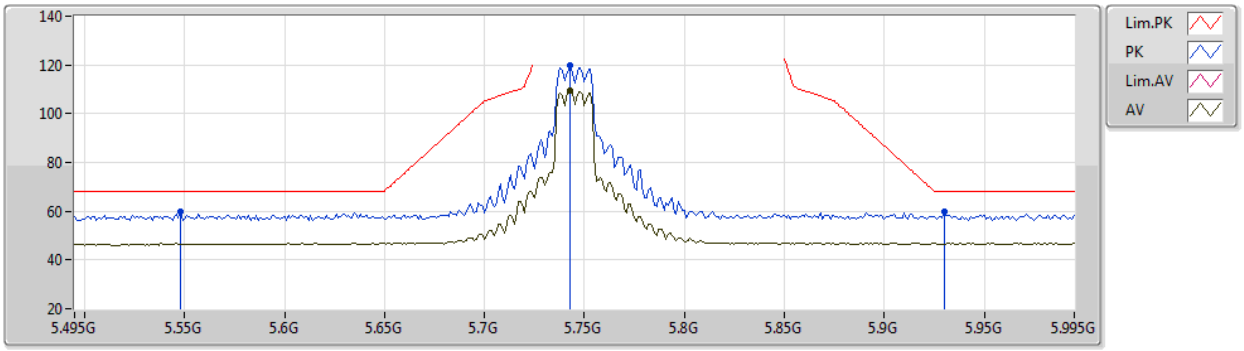
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.581G	60.10	68.20	-8.10	53.81	3	Vertical	351	1.89	-	34.42	6.87	35.00
PK	5.742G	123.40	Inf	-Inf	117.29	3	Vertical	351	1.89	-	34.30	6.83	35.02
AV	5.742G	113.46	Inf	-Inf	107.35	3	Vertical	351	1.89	-	34.30	6.83	35.02
PK	5.93G	59.47	68.20	-8.73	53.06	3	Vertical	351	1.89	-	34.59	6.86	35.04

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

10/12/2019



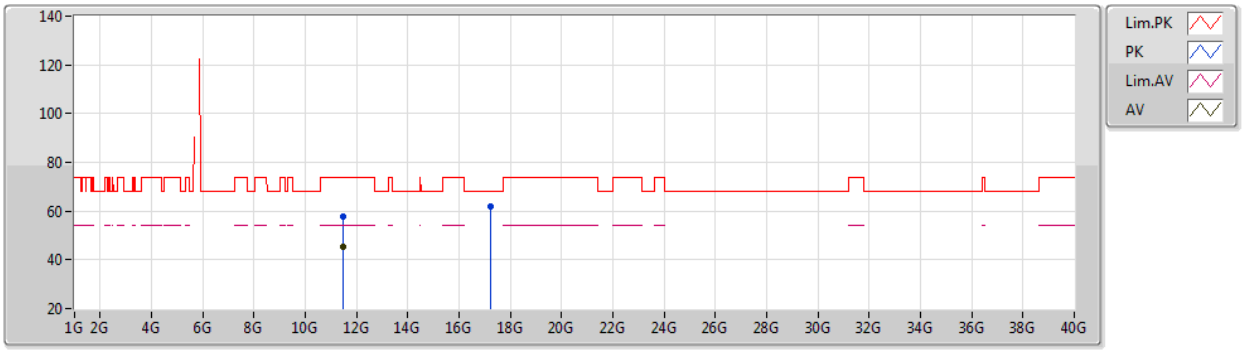
EUT X_2TX
Setting 24
03-C-A-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.548G	59.88	68.20	-8.32	53.59	3	Horizontal	66	1.73	-	34.45	6.83	34.99
PK	5.743G	119.75	Inf	-Inf	113.64	3	Horizontal	66	1.73	-	34.30	6.83	35.02
AV	5.743G	109.55	Inf	-Inf	103.44	3	Horizontal	66	1.73	-	34.30	6.83	35.02
PK	5.93G	59.57	68.20	-8.63	53.16	3	Horizontal	66	1.73	-	34.59	6.86	35.04

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3

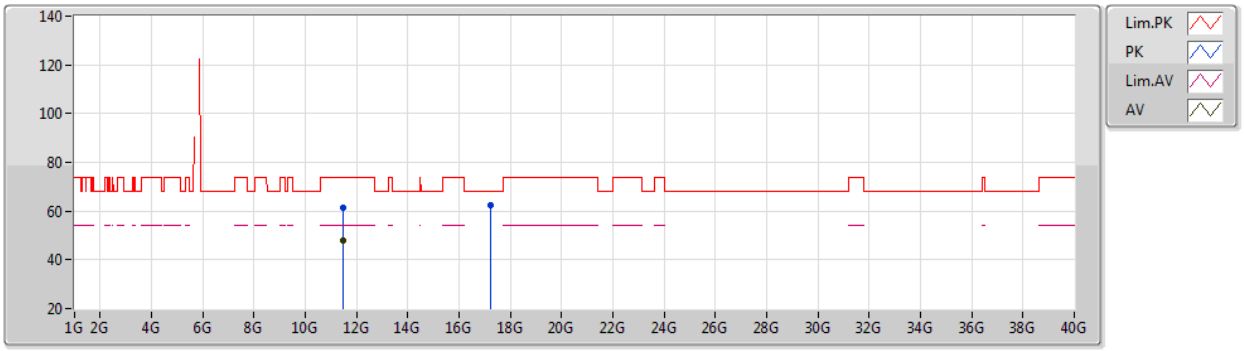
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.48808G	57.76	74.00	-16.24	44.02	3	Vertical	304	1.76	-	38.84	9.68	34.78
AV	11.48988G	45.54	54.00	-8.46	31.80	3	Vertical	304	1.76	-	38.84	9.68	34.78
PK	17.24874G	61.75	68.20	-6.45	43.69	3	Vertical	110	1.80	-	41.17	11.56	34.67

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3

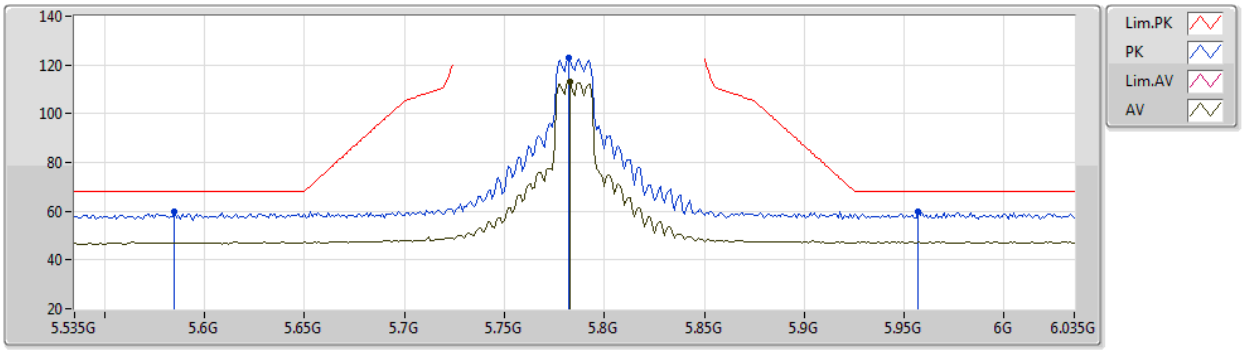
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4936G	61.37	74.00	-12.63	47.62	3	Horizontal	25	1.00	-	38.85	9.68	34.78
AV	11.48856G	47.78	54.00	-6.22	34.04	3	Horizontal	25	1.00	-	38.84	9.68	34.78
PK	17.22162G	62.28	68.20	-5.92	44.37	3	Horizontal	310	1.61	-	41.03	11.54	34.66

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3-10

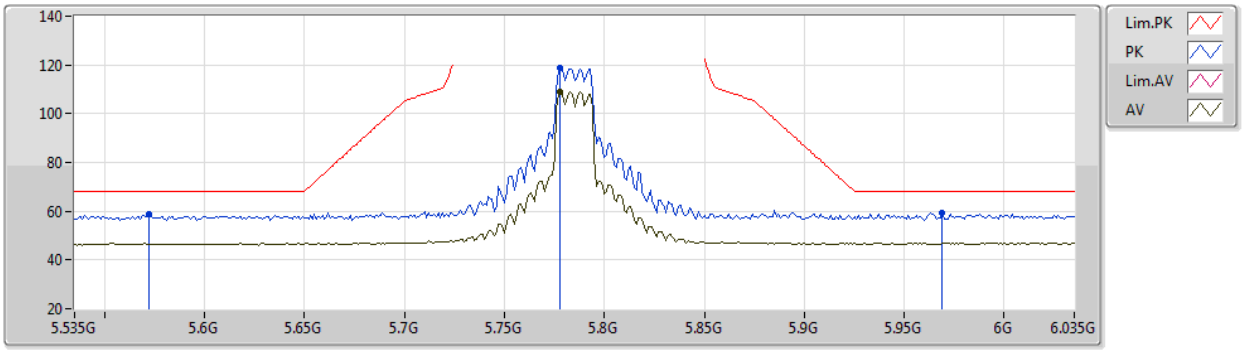
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.585G	59.79	68.20	-8.41	53.50	3	Vertical	351	1.84	-	34.41	6.88	35.00
PK	5.782G	123.07	Inf	-Inf	116.99	3	Vertical	351	1.84	-	34.30	6.81	35.03
AV	5.783G	112.91	Inf	-Inf	106.83	3	Vertical	351	1.84	-	34.30	6.81	35.03
PK	5.957G	59.84	68.20	-8.36	53.34	3	Vertical	351	1.84	-	34.67	6.88	35.05

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3-10

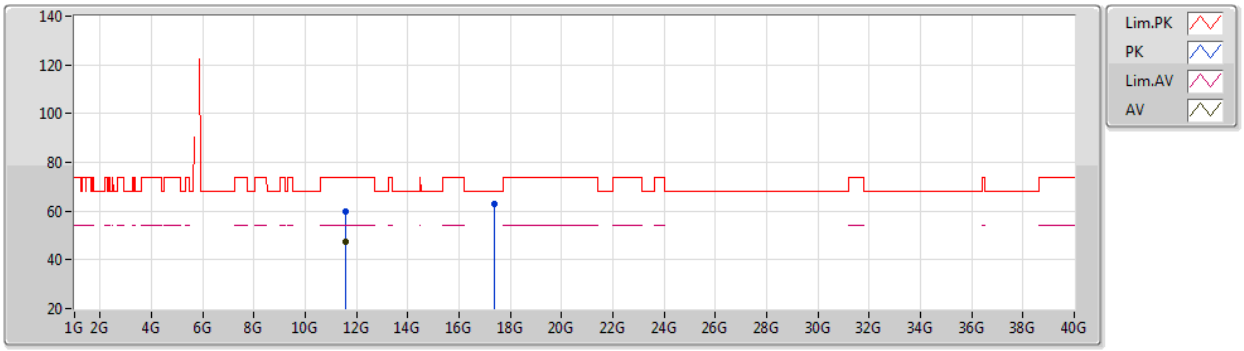
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.572G	58.60	68.20	-9.60	52.31	3	Horizontal	64	1.63	-	34.43	6.86	35.00
PK	5.778G	118.80	Inf	-Inf	112.72	3	Horizontal	64	1.63	-	34.30	6.81	35.03
AV	5.778G	109.03	Inf	-Inf	102.95	3	Horizontal	64	1.63	-	34.30	6.81	35.03
PK	5.969G	59.11	68.20	-9.09	52.57	3	Horizontal	64	1.63	-	34.71	6.88	35.05

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3

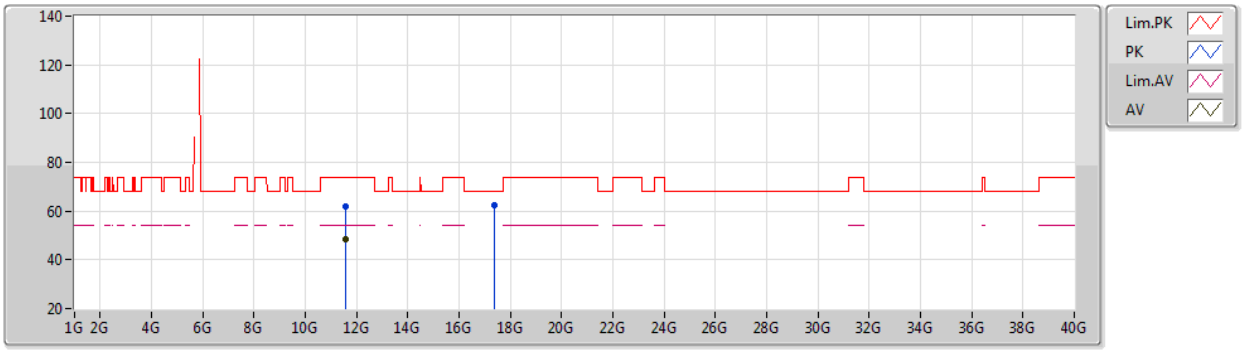
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5643G	60.01	74.00	-13.99	46.20	3	Vertical	310	1.68	-	38.90	9.70	34.79
AV	11.56982G	47.46	54.00	-6.54	33.65	3	Vertical	310	1.68	-	38.90	9.70	34.79
PK	17.3697G	63.01	68.20	-5.19	44.23	3	Vertical	118	1.73	-	41.79	11.68	34.69

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3

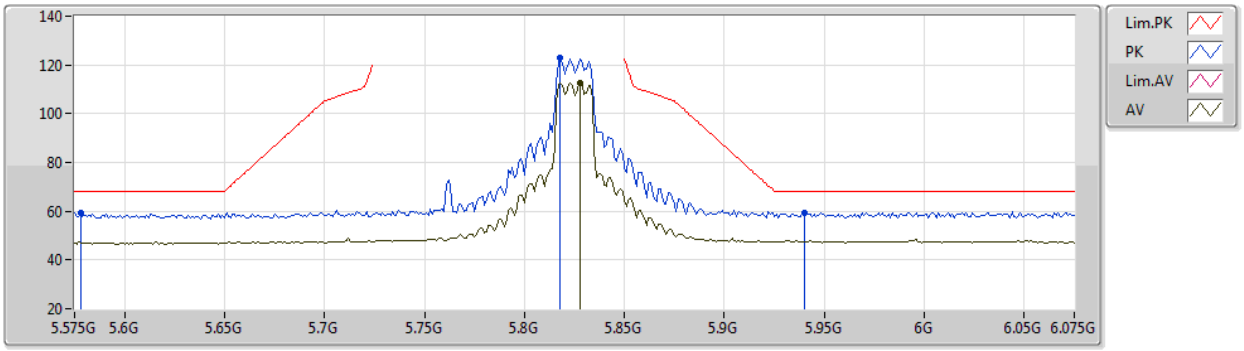
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.57348G	62.12	74.00	-11.88	48.31	3	Horizontal	23	1.00	-	38.90	9.70	34.79
AV	11.56898G	48.31	54.00	-5.69	34.50	3	Horizontal	23	1.00	-	38.90	9.70	34.79
PK	17.3622G	62.29	68.20	-5.91	43.55	3	Horizontal	356	2.05	-	41.75	11.67	34.68

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3-10

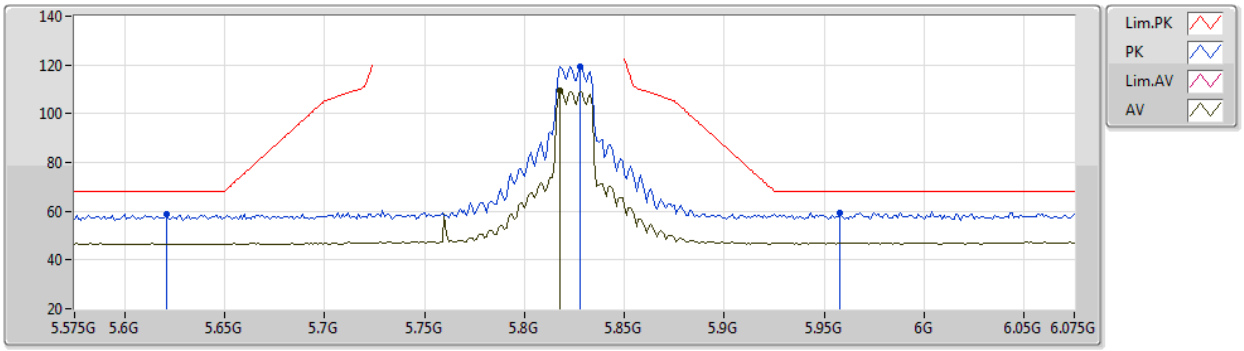
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.578G	59.34	68.20	-8.86	53.05	3	Vertical	347	1.70	-	34.42	6.87	35.00
PK	5.818G	122.80	Inf	-Inf	116.68	3	Vertical	347	1.70	-	34.34	6.81	35.03
AV	5.828G	112.61	Inf	-Inf	106.47	3	Vertical	347	1.70	-	34.36	6.81	35.03
PK	5.94G	59.52	68.20	-8.68	53.07	3	Vertical	347	1.70	-	34.62	6.87	35.04

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3-10

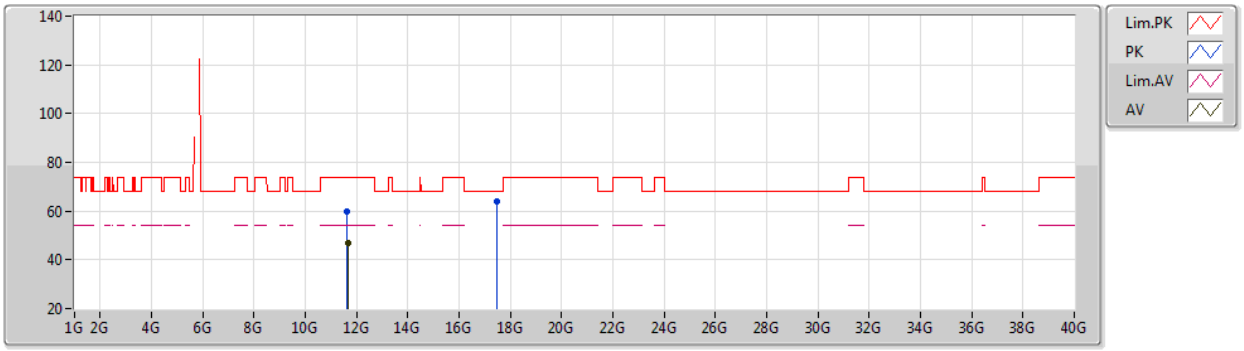
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.621G	58.75	68.20	-9.45	52.48	3	Horizontal	67	1.72	-	34.38	6.89	35.00
PK	5.828G	119.45	Inf	-Inf	113.31	3	Horizontal	67	1.72	-	34.36	6.81	35.03
AV	5.818G	109.26	Inf	-Inf	103.14	3	Horizontal	67	1.72	-	34.34	6.81	35.03
PK	5.958G	59.31	68.20	-8.89	52.81	3	Horizontal	67	1.72	-	34.67	6.88	35.05

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3

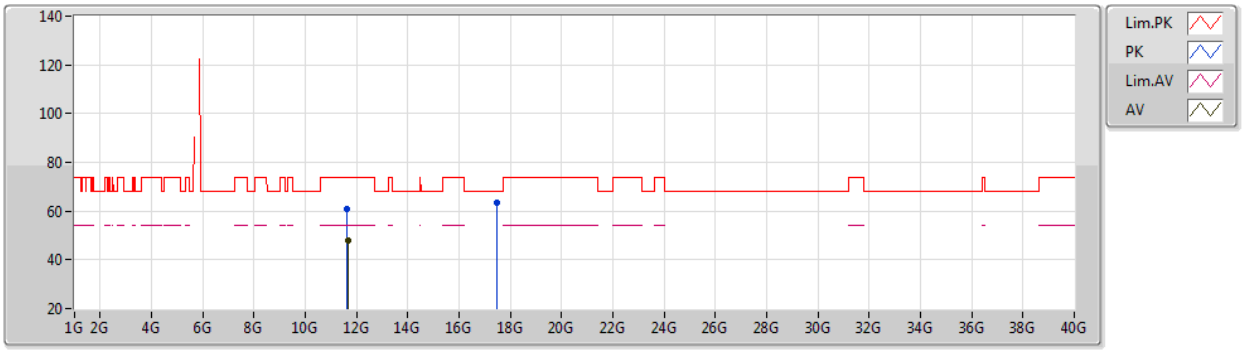
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.64424G	59.80	74.00	-14.20	45.94	3	Vertical	316	1.74	-	38.95	9.71	34.80
AV	11.64958G	47.14	54.00	-6.86	33.27	3	Vertical	316	1.74	-	38.95	9.72	34.80
PK	17.47656G	64.05	68.20	-4.15	44.63	3	Vertical	37	3.00	-	42.33	11.79	34.70

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3

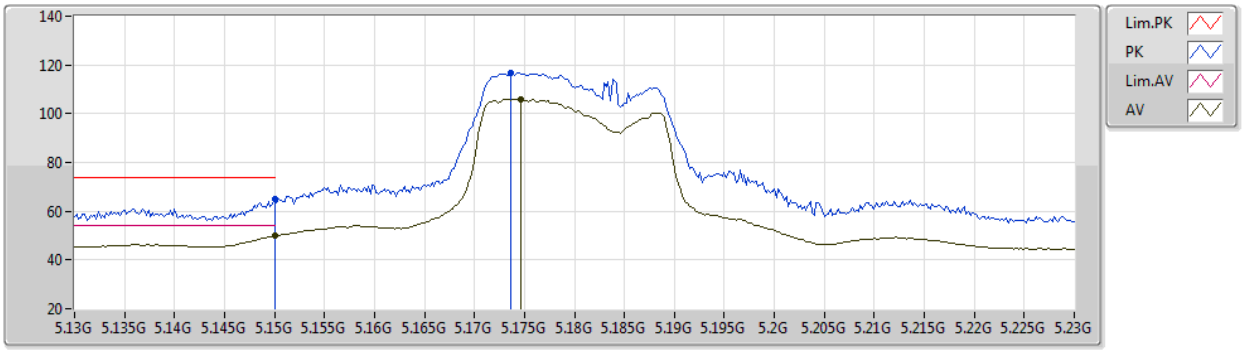
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.64442G	60.71	74.00	-13.29	46.85	3	Horizontal	341	1.22	-	38.95	9.71	34.80
AV	11.64982G	47.82	54.00	-6.18	33.95	3	Horizontal	341	1.22	-	38.95	9.72	34.80
PK	17.48454G	63.70	68.20	-4.50	44.24	3	Horizontal	250	2.64	-	42.37	11.79	34.70

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5180MHz_TX



EUT X_2TX
Setting 21
01-B-G-2-10

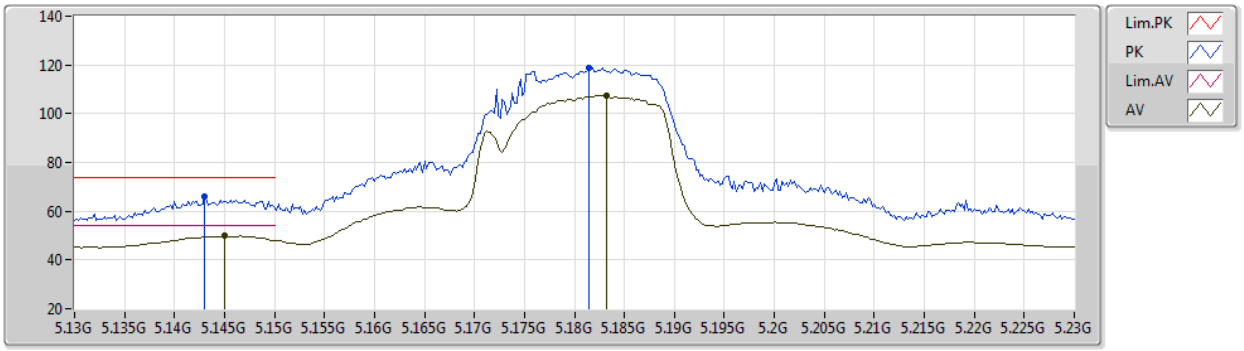
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.15G	65.20	74.00	-8.80	60.98	3	Vertical	9	1.80	-	32.80	5.87	34.45
AV	5.15G	49.80	54.00	-4.20	45.58	3	Vertical	9	1.80	-	32.80	5.87	34.45
PK	5.1736G	116.95	Inf	-Inf	112.72	3	Vertical	9	1.80	-	32.80	5.89	34.46
AV	5.1746G	106.01	Inf	-Inf	101.78	3	Vertical	9	1.80	-	32.80	5.89	34.46

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

10/12/2019



EUT X_2TX
Setting 21
01-B-G-2-10

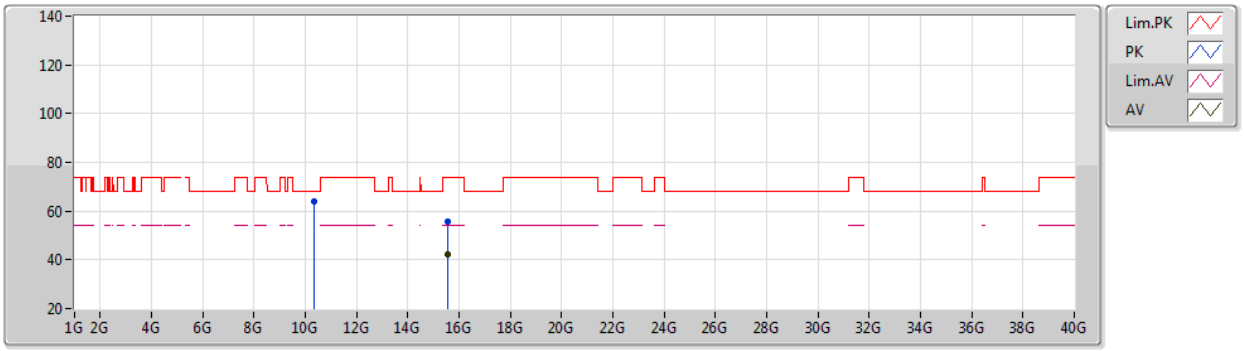
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.143G	66.01	74.00	-7.99	61.79	3	Horizontal	11	1.79	-	32.80	5.87	34.45
AV	5.145G	49.82	54.00	-4.18	45.60	3	Horizontal	11	1.79	-	32.80	5.87	34.45
PK	5.1814G	118.78	Inf	-Inf	114.55	3	Horizontal	11	1.79	-	32.80	5.89	34.46
AV	5.1832G	107.39	Inf	-Inf	103.16	3	Horizontal	11	1.79	-	32.80	5.89	34.46

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5180MHz_TX



EUT X_2TX
Setting 21
01-B-G-2

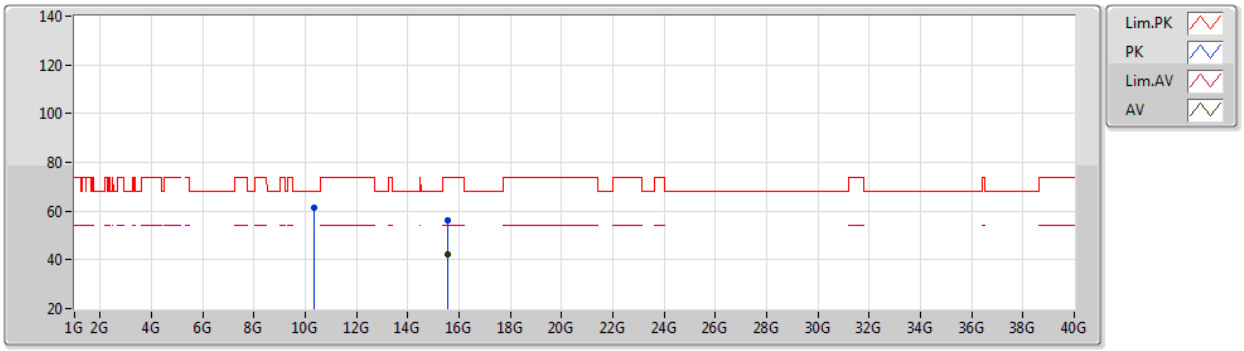
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.35988G	63.97	68.20	-4.23	52.04	3	Vertical	60	1.80	-	38.21	8.91	35.19
PK	15.54462G	55.71	74.00	-18.29	41.82	3	Vertical	207	3.00	-	38.76	9.79	34.66
AV	15.5358G	42.06	54.00	-11.94	28.15	3	Vertical	207	3.00	-	38.77	9.79	34.65

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5180MHz_TX



EUT X_2TX
Setting 21
01-B-G-2

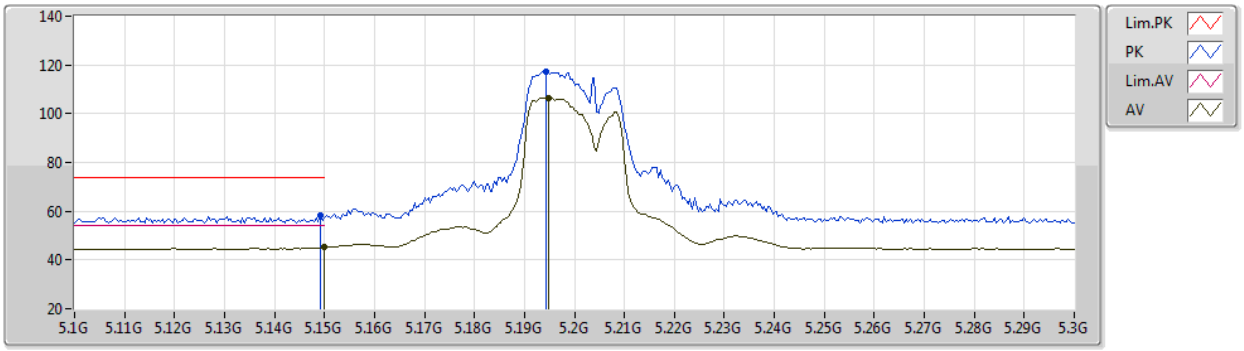
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.35838G	61.44	68.20	-6.76	49.51	3	Horizontal	58	1.79	-	38.21	8.91	35.19
PK	15.53976G	56.33	74.00	-17.67	42.43	3	Horizontal	26	2.22	-	38.77	9.79	34.66
AV	15.53562G	42.06	54.00	-11.94	28.15	3	Horizontal	26	2.22	-	38.77	9.79	34.65

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5200MHz_TX



EUT X_2TX
Setting 21
01-B-G-2-10

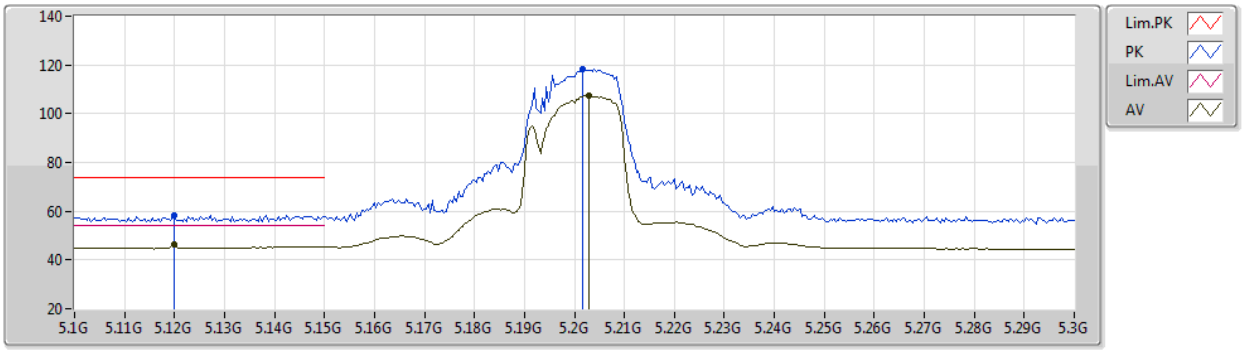
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1492G	58.04	74.00	-15.96	53.82	3	Vertical	11	2.04	-	32.80	5.87	34.45
AV	5.15G	45.13	54.00	-8.87	40.91	3	Vertical	11	2.04	-	32.80	5.87	34.45
PK	5.1944G	117.32	Inf	-Inf	113.08	3	Vertical	11	2.04	-	32.80	5.90	34.46
AV	5.1948G	106.46	Inf	-Inf	102.22	3	Vertical	11	2.04	-	32.80	5.90	34.46

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5200MHz_TX



EUT X_2TX
Setting 21
01-B-G-2-10

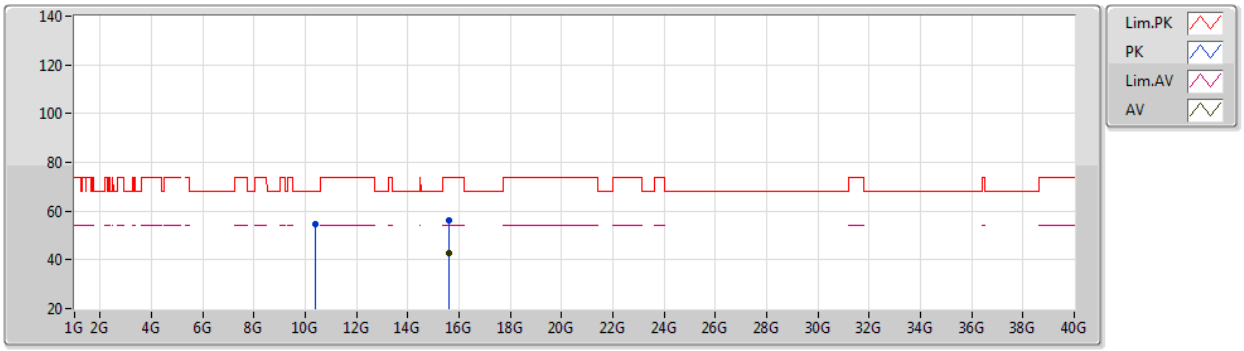
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.12G	58.32	74.00	-15.68	54.11	3	Horizontal	10	1.78	-	32.80	5.86	34.45
AV	5.12G	46.59	54.00	-7.41	42.38	3	Horizontal	10	1.78	-	32.80	5.86	34.45
PK	5.2016G	118.28	Inf	-Inf	114.04	3	Horizontal	10	1.78	-	32.80	5.90	34.46
AV	5.2028G	107.48	Inf	-Inf	103.22	3	Horizontal	10	1.78	-	32.81	5.91	34.46

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

10/12/2019



EUT X_2TX
Setting 21
01-B-G-2

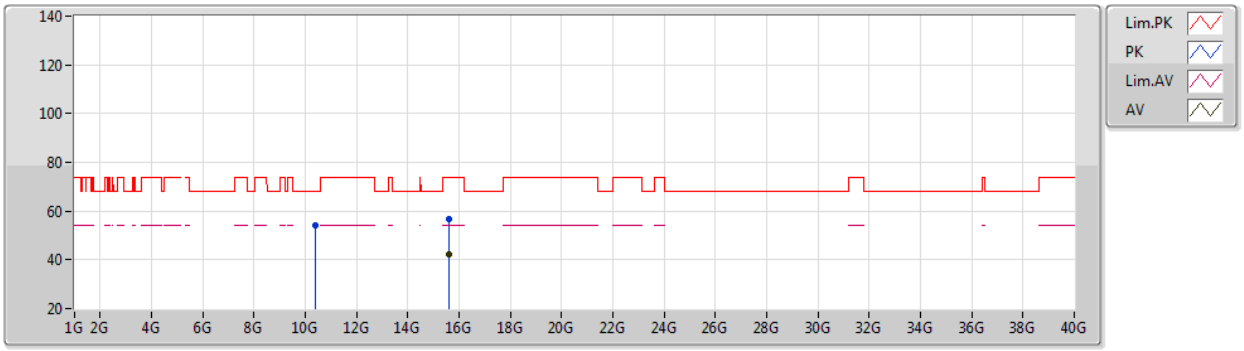
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.39496G	54.58	68.20	-13.62	42.61	3	Vertical	304	1.38	-	38.22	8.92	35.17
PK	15.59666G	56.46	74.00	-17.54	42.68	3	Vertical	257	2.07	-	38.72	9.78	34.72
AV	15.60438G	42.64	54.00	-11.36	28.87	3	Vertical	257	2.07	-	38.72	9.78	34.73

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

10/12/2019



EUT X_2TX
Setting 21
01-B-G-2

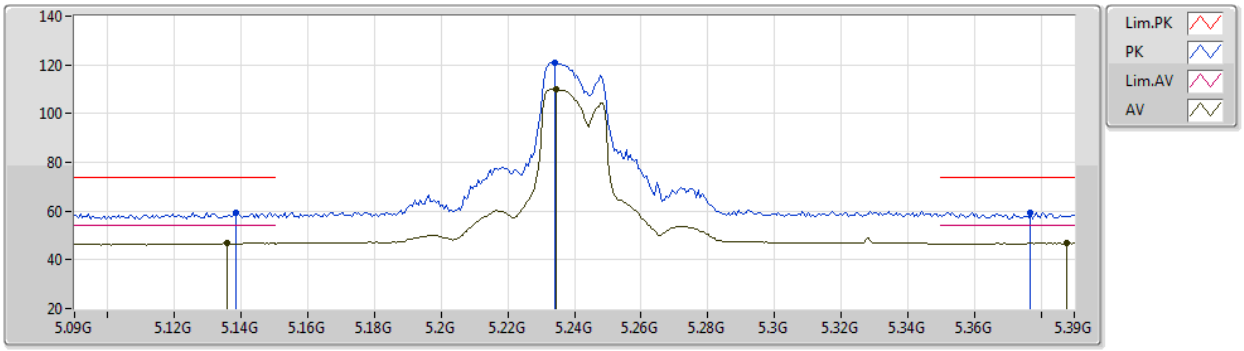
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.41398G	54.29	68.20	-13.91	42.29	3	Horizontal	238	2.51	-	38.22	8.93	35.15
PK	15.59724G	56.49	74.00	-17.51	42.71	3	Horizontal	352	1.85	-	38.72	9.78	34.72
AV	15.5964G	42.26	54.00	-11.74	28.48	3	Horizontal	352	1.85	-	38.72	9.78	34.72

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5240MHz_TX



EUT X_2TX
Setting 22
03-C-A-3-10

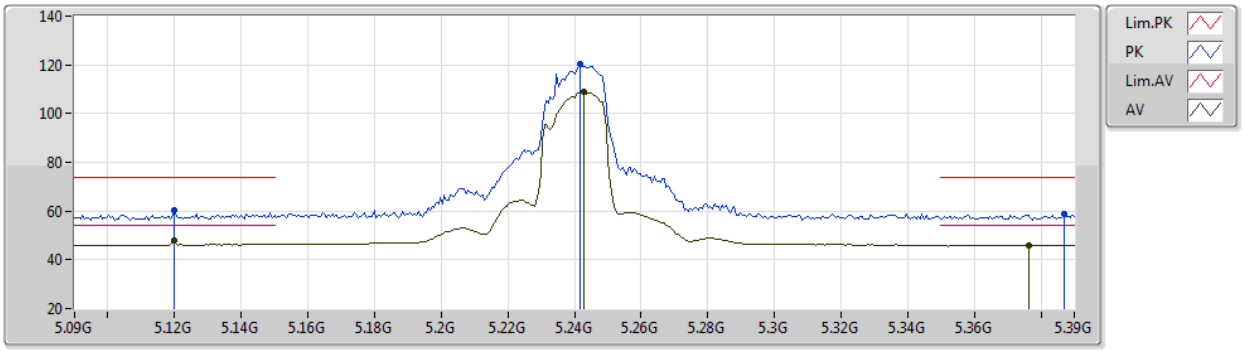
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1386G	59.35	74.00	-14.65	53.69	3	Vertical	15	2.00	-	34.04	6.59	34.97
AV	5.1356G	47.05	54.00	-6.95	41.40	3	Vertical	15	2.00	-	34.04	6.58	34.97
PK	5.234G	121.09	Inf	-Inf	115.22	3	Vertical	15	2.00	-	34.17	6.68	34.98
AV	5.2346G	110.15	Inf	-Inf	104.28	3	Vertical	15	2.00	-	34.17	6.68	34.98
PK	5.3768G	59.49	74.00	-14.51	53.49	3	Vertical	15	2.00	-	34.38	6.61	34.99
AV	5.3876G	46.82	54.00	-7.18	40.81	3	Vertical	15	2.00	-	34.39	6.61	34.99

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

10/12/2019



EUT X_2TX
Setting 22
03-C-A-3-10

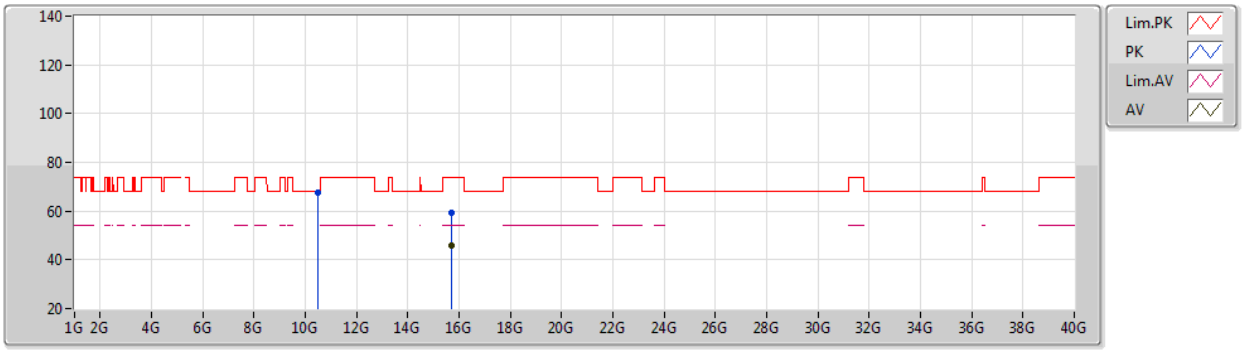
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.12G	60.43	74.00	-13.57	54.82	3	Horizontal	14	1.80	-	34.02	6.56	34.97
AV	5.12G	47.86	54.00	-6.14	42.25	3	Horizontal	14	1.80	-	34.02	6.56	34.97
PK	5.2418G	120.31	Inf	-Inf	114.43	3	Horizontal	14	1.80	-	34.18	6.68	34.98
AV	5.243G	109.07	Inf	-Inf	103.18	3	Horizontal	14	1.80	-	34.19	6.68	34.98
PK	5.387G	58.84	74.00	-15.16	52.83	3	Horizontal	14	1.80	-	34.39	6.61	34.99
AV	5.3762G	46.10	54.00	-7.90	40.10	3	Horizontal	14	1.80	-	34.38	6.61	34.99

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

10/12/2019



EUT X_2TX
Setting 22
03-C-A-3

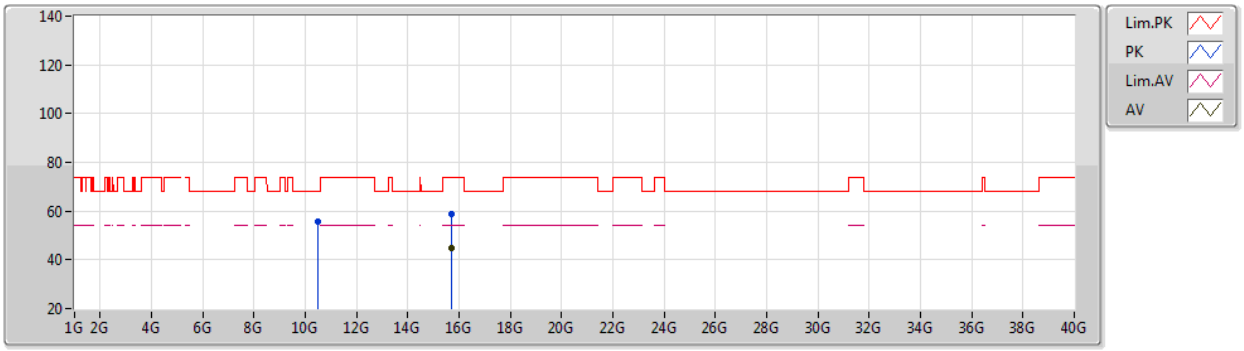
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.48126G	67.51	68.20	-0.69	54.73	3	Vertical	54	1.72	-	38.40	9.43	35.05
PK	15.7059G	59.51	74.00	-14.49	45.94	3	Vertical	39	2.01	-	38.38	10.34	35.15
AV	15.72264G	45.67	54.00	-8.33	32.16	3	Vertical	39	2.01	-	38.33	10.34	35.16

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

10/12/2019



EUT X_2TX
Setting 22
03-C-A-3

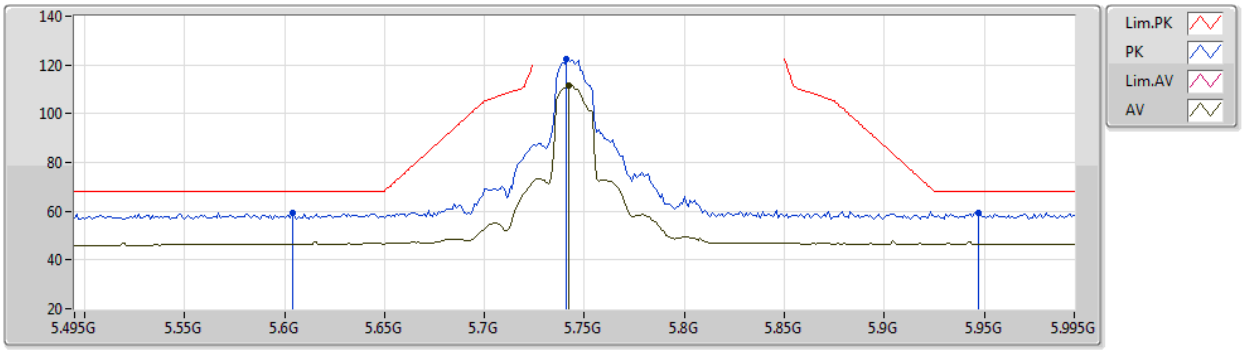
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.48012G	55.51	68.20	-12.69	42.74	3	Horizontal	36	1.63	-	38.40	9.42	35.05
PK	15.7242G	58.54	74.00	-15.46	45.03	3	Horizontal	5	1.58	-	38.33	10.34	35.16
AV	15.72246G	45.08	54.00	-8.92	31.57	3	Horizontal	5	1.58	-	38.33	10.34	35.16

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5745MHz_TX



EUT X_2TX
Setting 24
03-C-A-3-10

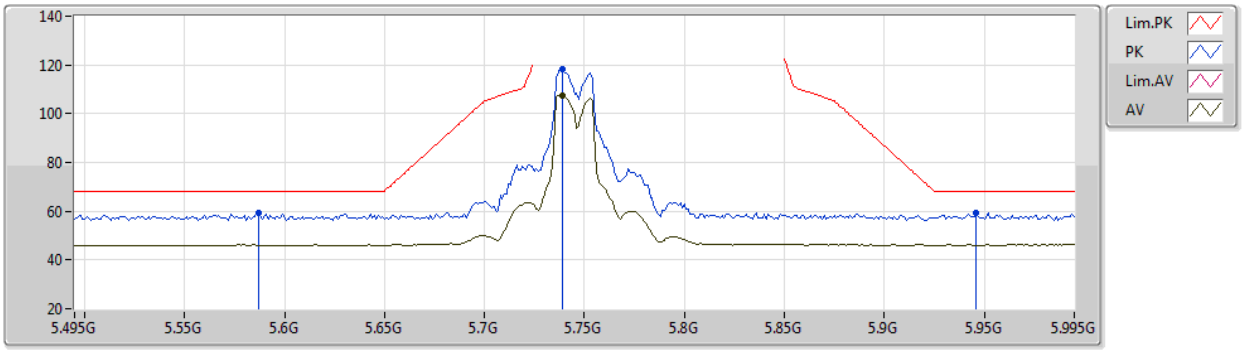
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.604G	59.35	68.20	-8.85	53.05	3	Vertical	334	1.80	-	34.40	6.90	35.00
PK	5.741G	122.35	Inf	-Inf	116.24	3	Vertical	334	1.80	-	34.30	6.83	35.02
AV	5.742G	111.69	Inf	-Inf	105.58	3	Vertical	334	1.80	-	34.30	6.83	35.02
PK	5.947G	59.50	68.20	-8.70	53.03	3	Vertical	334	1.80	-	34.64	6.87	35.04

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3-10

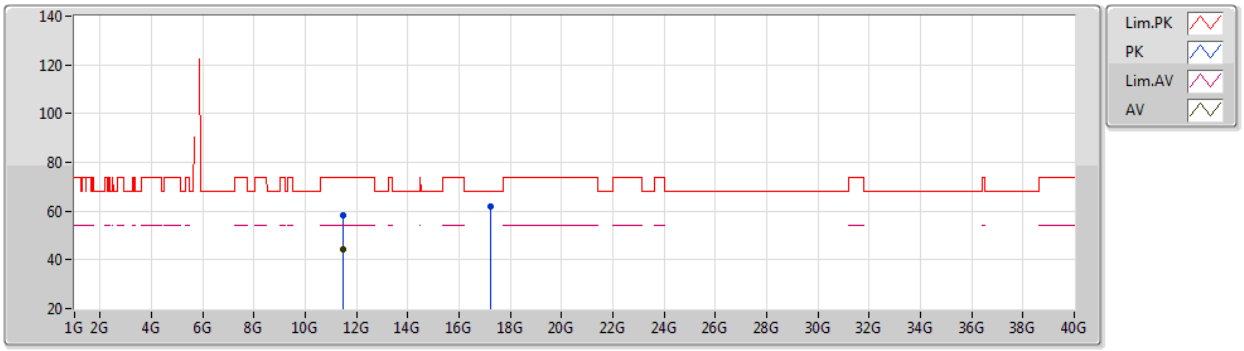
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.587G	59.14	68.20	-9.06	52.85	3	Horizontal	63	1.73	-	34.41	6.88	35.00
PK	5.739G	118.28	Inf	-Inf	112.17	3	Horizontal	63	1.73	-	34.30	6.83	35.02
AV	5.739G	107.47	Inf	-Inf	101.36	3	Horizontal	63	1.73	-	34.30	6.83	35.02
PK	5.946G	59.43	68.20	-8.77	52.96	3	Horizontal	63	1.73	-	34.64	6.87	35.04

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3

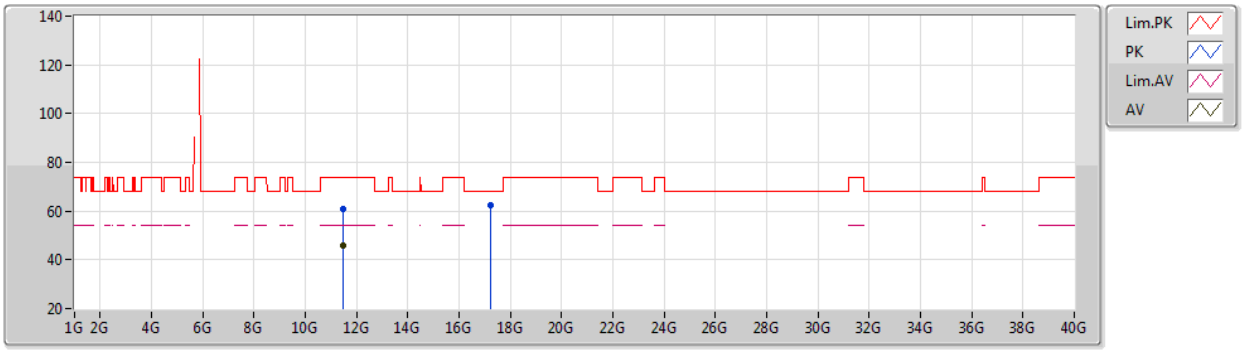
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.48886G	58.26	74.00	-15.74	44.52	3	Vertical	310	1.77	-	38.84	9.68	34.78
AV	11.48976G	44.29	54.00	-9.71	30.55	3	Vertical	310	1.77	-	38.84	9.68	34.78
PK	17.24364G	61.99	68.20	-6.21	43.96	3	Vertical	228	2.88	-	41.14	11.56	34.67

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5745MHz_TX



EUT X_2TX
Setting 24
03-C-A-3

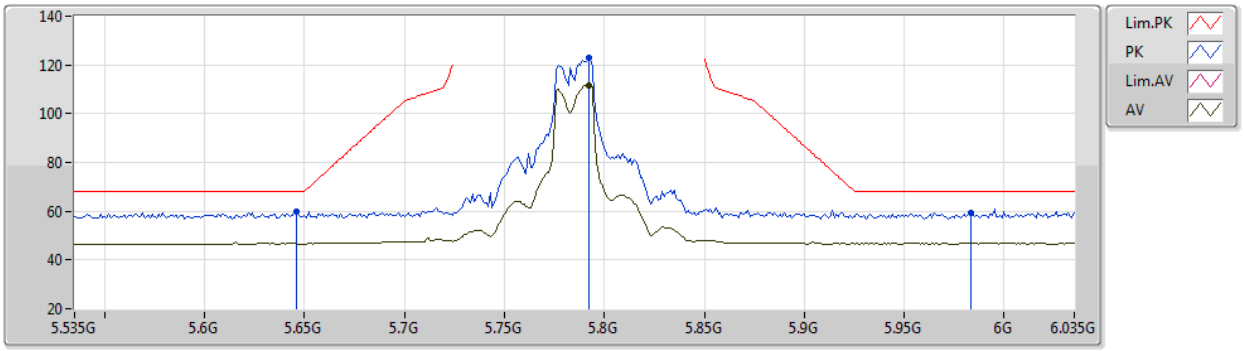
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.48784G	61.00	74.00	-13.00	47.26	3	Horizontal	357	1.80	-	38.84	9.68	34.78
AV	11.48892G	46.09	54.00	-7.91	32.35	3	Horizontal	357	1.80	-	38.84	9.68	34.78
PK	17.24142G	62.24	68.20	-5.96	44.22	3	Horizontal	352	1.50	-	41.13	11.56	34.67

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5785MHz_TX



EUT X_2TX
Setting 24
03-C-A-3-10

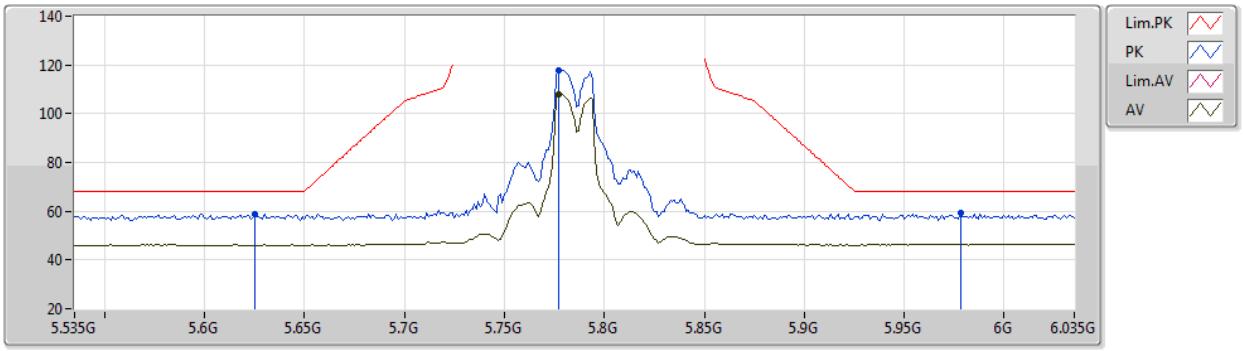
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.646G	59.85	68.20	-8.35	53.62	3	Vertical	353	1.81	-	34.35	6.88	35.00
PK	5.792G	122.85	Inf	-Inf	116.78	3	Vertical	353	1.81	-	34.30	6.80	35.03
AV	5.792G	111.73	Inf	-Inf	105.66	3	Vertical	353	1.81	-	34.30	6.80	35.03
PK	5.983G	59.40	68.20	-8.80	52.81	3	Vertical	353	1.81	-	34.75	6.89	35.05

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5785MHz_TX



EUT X_2TX
Setting 24
03-C-A-3-10

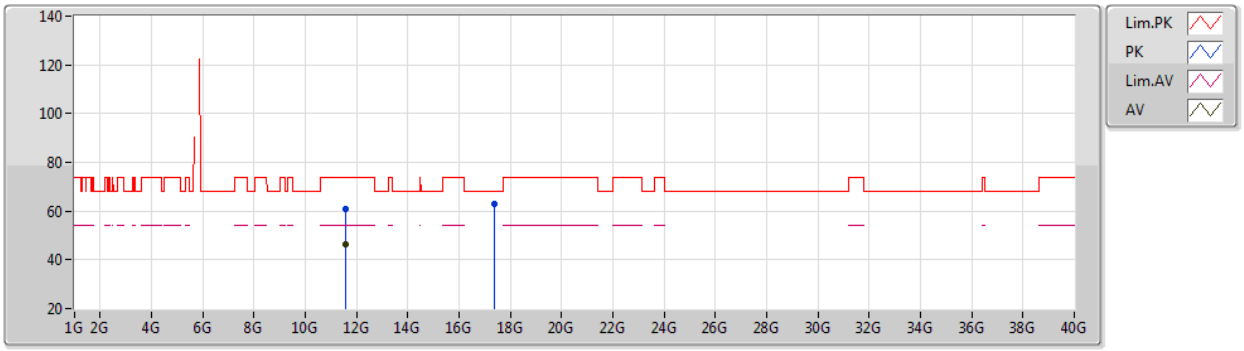
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.625G	59.02	68.20	-9.18	52.76	3	Horizontal	65	1.71	-	34.37	6.89	35.00
PK	5.777G	117.86	Inf	-Inf	111.78	3	Horizontal	65	1.71	-	34.30	6.81	35.03
AV	5.777G	107.90	Inf	-Inf	101.82	3	Horizontal	65	1.71	-	34.30	6.81	35.03
PK	5.978G	59.17	68.20	-9.03	52.60	3	Horizontal	65	1.71	-	34.73	6.89	35.05

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5785MHz_TX



EUT X_2TX
Setting 24
03-C-A-3

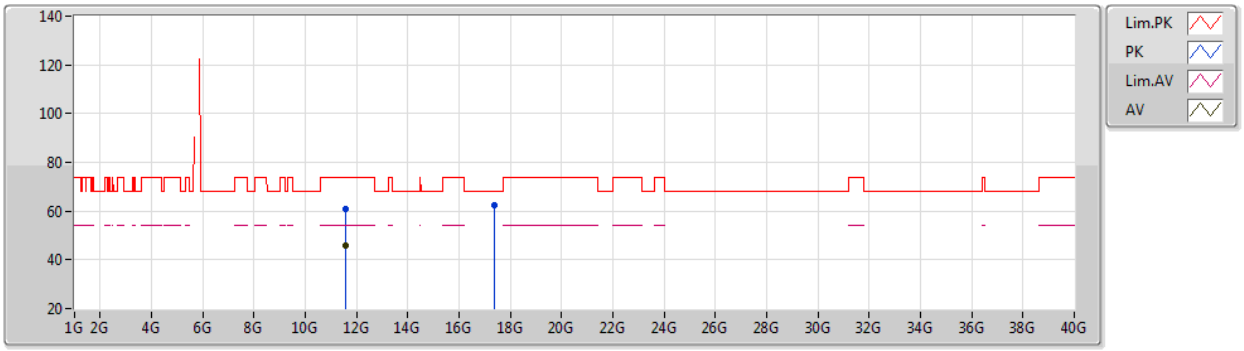
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.56964G	60.86	74.00	-13.14	47.05	3	Vertical	307	1.67	-	38.90	9.70	34.79
AV	11.5649G	46.21	54.00	-7.79	32.40	3	Vertical	307	1.67	-	38.90	9.70	34.79
PK	17.3655G	62.75	68.20	-5.45	43.99	3	Vertical	272	1.16	-	41.76	11.68	34.68

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5785MHz_TX



EUT X_2TX
Setting 24
03-C-A-3

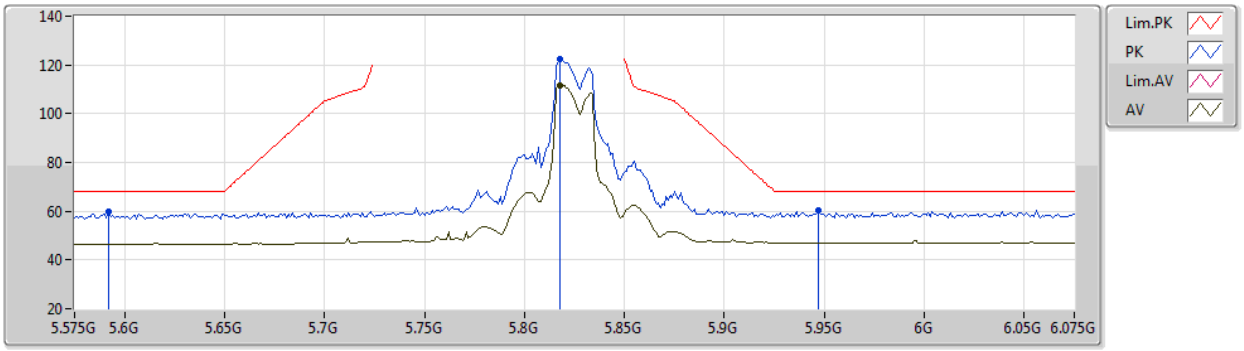
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.56808G	60.87	74.00	-13.13	47.06	3	Horizontal	357	1.79	-	38.90	9.70	34.79
AV	11.56886G	45.96	54.00	-8.04	32.15	3	Horizontal	357	1.79	-	38.90	9.70	34.79
PK	17.36058G	62.62	68.20	-5.58	43.89	3	Horizontal	90	2.82	-	41.74	11.67	34.68

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5825MHz_TX



EUT X_2TX
Setting 24
03-C-A-3-10

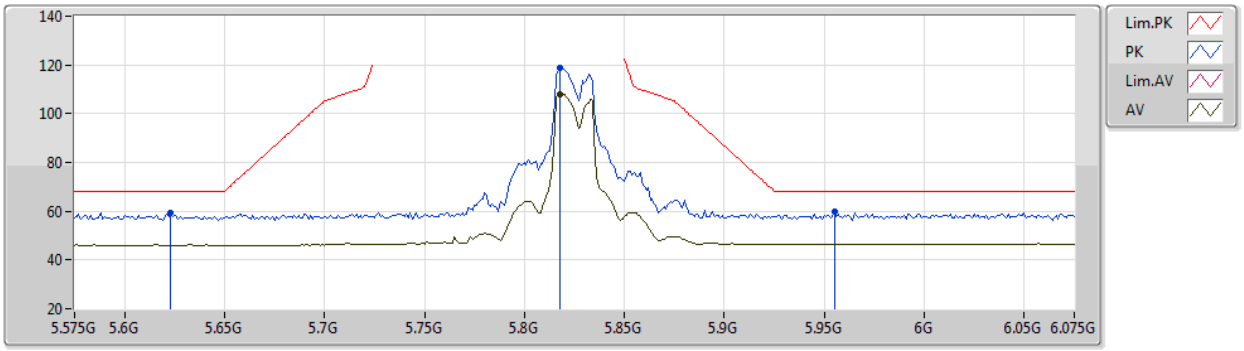
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.592G	59.60	68.20	-8.60	53.30	3	Vertical	345	1.77	-	34.41	6.89	35.00
PK	5.818G	122.19	Inf	-Inf	116.07	3	Vertical	345	1.77	-	34.34	6.81	35.03
AV	5.818G	111.79	Inf	-Inf	105.67	3	Vertical	345	1.77	-	34.34	6.81	35.03
PK	5.947G	60.21	68.20	-7.99	53.74	3	Vertical	345	1.77	-	34.64	6.87	35.04

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5825MHz_TX



EUT X_2TX
Setting 24
03-C-A-3-10

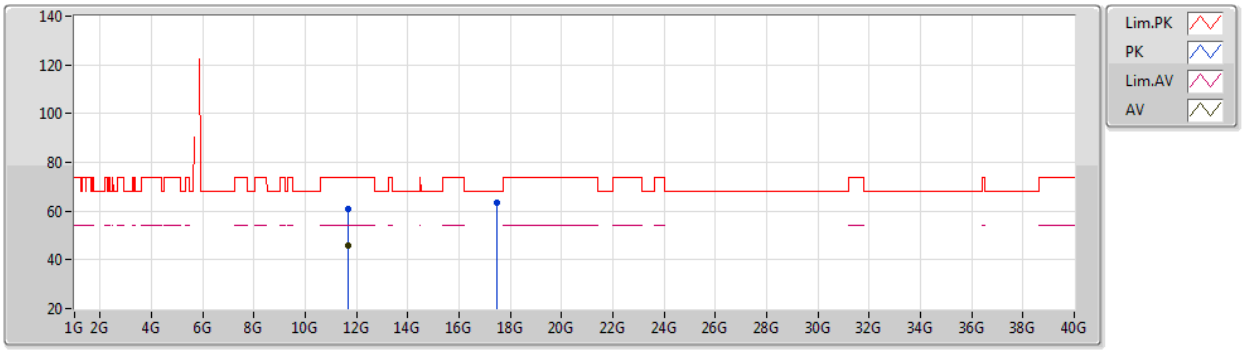
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.623G	59.43	68.20	-8.77	53.16	3	Horizontal	68	1.71	-	34.38	6.89	35.00
PK	5.818G	118.80	Inf	-Inf	112.68	3	Horizontal	68	1.71	-	34.34	6.81	35.03
AV	5.818G	108.17	Inf	-Inf	102.05	3	Horizontal	68	1.71	-	34.34	6.81	35.03
PK	5.955G	59.57	68.20	-8.63	53.08	3	Horizontal	68	1.71	-	34.66	6.88	35.05

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5825MHz_TX



EUT X_2TX
Setting 24
03-C-A-3

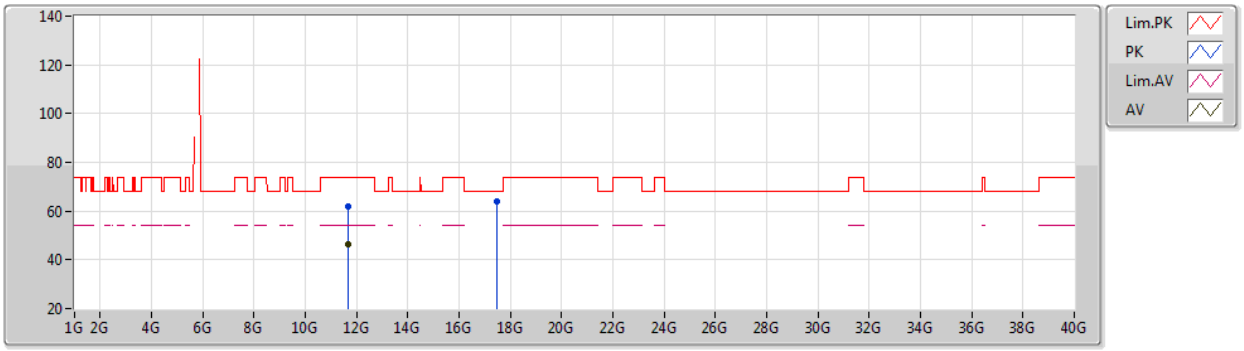
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.64994G	60.64	74.00	-13.36	46.77	3	Vertical	312	1.70	-	38.95	9.72	34.80
AV	11.64874G	45.87	54.00	-8.13	32.00	3	Vertical	312	1.70	-	38.95	9.72	34.80
PK	17.46828G	63.58	68.20	-4.62	44.21	3	Vertical	199	1.07	-	42.29	11.78	34.70

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT20_Nss1,(MCS0)_2TX

10/12/2019

5825MHz_TX



EUT X_2TX
Setting 24
03-C-A-3

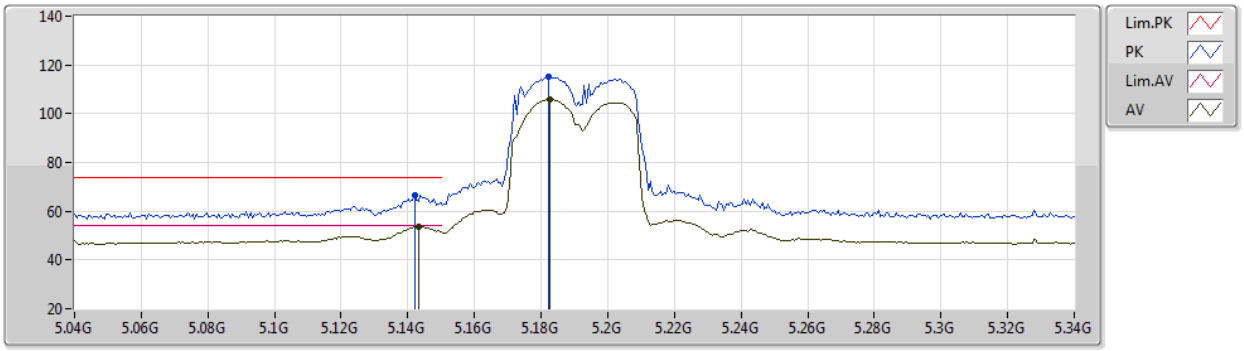
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6491G	62.02	74.00	-11.98	48.15	3	Horizontal	341	1.02	-	38.95	9.72	34.80
AV	11.64982G	46.36	54.00	-7.64	32.49	3	Horizontal	341	1.02	-	38.95	9.72	34.80
PK	17.48538G	64.21	68.20	-3.99	44.73	3	Horizontal	181	1.98	-	42.38	11.80	34.70

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5190MHz_TX



EUT X_2TX
Setting 19.5
03-C-A-3-10

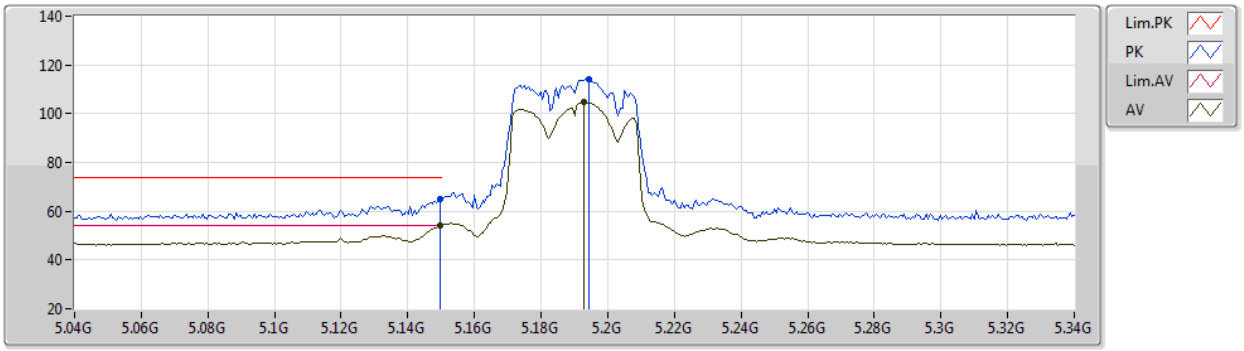
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.142G	66.78	74.00	-7.22	61.11	3	Vertical	16	1.91	-	34.04	6.60	34.97
AV	5.1432G	53.76	54.00	-0.24	48.09	3	Vertical	16	1.91	-	34.04	6.60	34.97
PK	5.1822G	115.19	Inf	-Inf	109.42	3	Vertical	16	1.91	-	34.08	6.67	34.98
AV	5.1828G	105.92	Inf	-Inf	100.15	3	Vertical	16	1.91	-	34.08	6.67	34.98

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

10/12/2019



EUT X_2TX
Setting 19.5
03-C-A-3-10

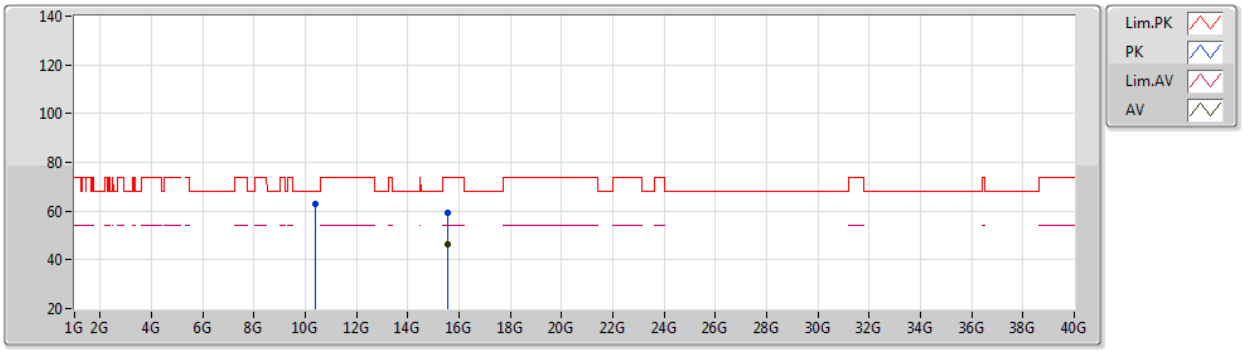
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1498G	64.96	74.00	-9.04	59.27	3	Horizontal	11	1.71	-	34.05	6.61	34.97
AV	5.1498G	53.89	54.00	-0.11	48.20	3	Horizontal	11	1.71	-	34.05	6.61	34.97
PK	5.1942G	113.95	Inf	-Inf	108.15	3	Horizontal	11	1.71	-	34.09	6.69	34.98
AV	5.193G	104.67	Inf	-Inf	98.87	3	Horizontal	11	1.71	-	34.09	6.69	34.98

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5190MHz_TX



EUT X_2TX
Setting 19.5
03-C-A-3

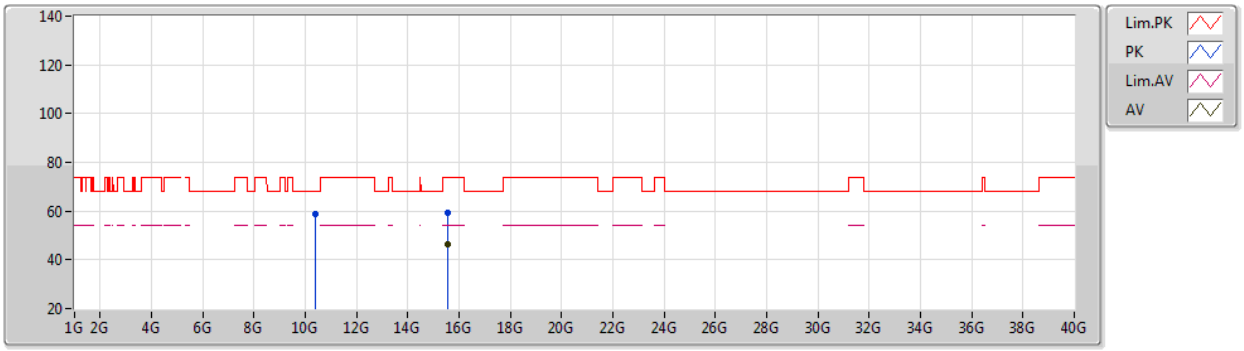
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.37868G	63.01	68.20	-5.19	50.35	3	Vertical	51	1.61	-	38.38	9.40	35.12
PK	15.55812G	59.27	74.00	-14.73	45.08	3	Vertical	61	2.96	-	38.83	10.36	35.00
AV	15.57846G	46.25	54.00	-7.75	32.15	3	Vertical	61	2.96	-	38.76	10.36	35.02

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5190MHz_TX



EUT X_2TX
Setting 19.5
03-C-A-3

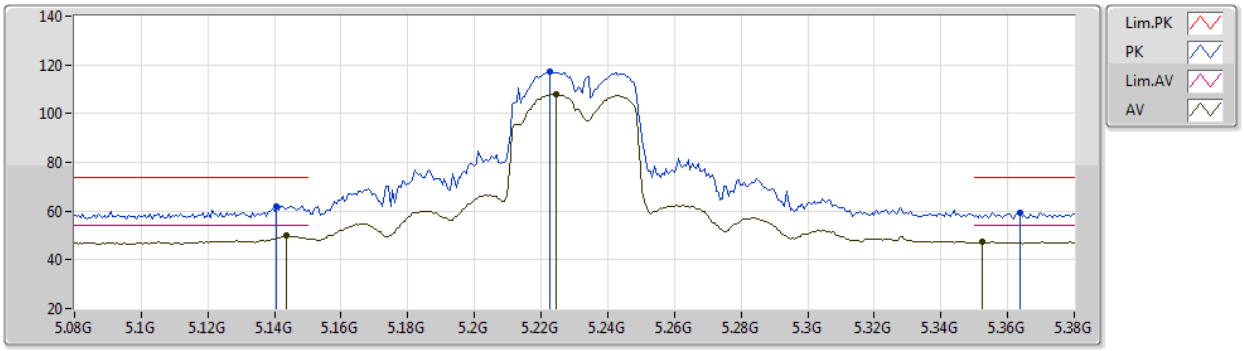
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.37874G	58.92	68.20	-9.28	46.26	3	Horizontal	360	1.80	-	38.38	9.40	35.12
PK	15.55968G	59.43	74.00	-14.57	45.25	3	Horizontal	119	2.86	-	38.82	10.36	35.00
AV	15.57372G	46.18	54.00	-7.82	32.05	3	Horizontal	119	2.86	-	38.78	10.36	35.01

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5230MHz_TX



EUT X_2TX
Setting 22
03-C-A-3-10

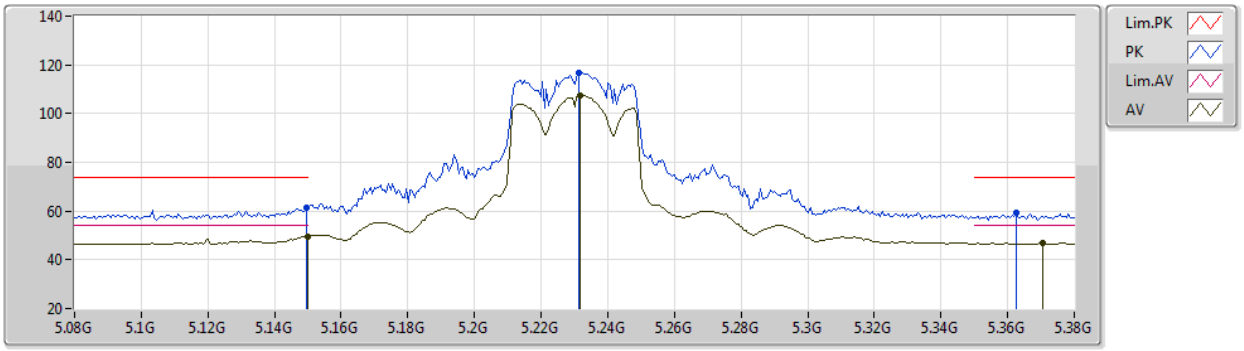
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1406G	62.14	74.00	-11.86	56.48	3	Vertical	14	1.89	-	34.04	6.59	34.97
AV	5.1436G	49.92	54.00	-4.08	44.25	3	Vertical	14	1.89	-	34.04	6.60	34.97
PK	5.2228G	117.15	Inf	-Inf	111.29	3	Vertical	14	1.89	-	34.15	6.69	34.98
AV	5.2246G	107.89	Inf	-Inf	102.03	3	Vertical	14	1.89	-	34.15	6.69	34.98
PK	5.3638G	59.49	74.00	-14.51	53.50	3	Vertical	14	1.89	-	34.36	6.62	34.99
AV	5.3524G	47.27	54.00	-6.73	41.29	3	Vertical	14	1.89	-	34.35	6.62	34.99

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5230MHz_TX



EUT X_2TX
Setting 22
03-C-A-3-10

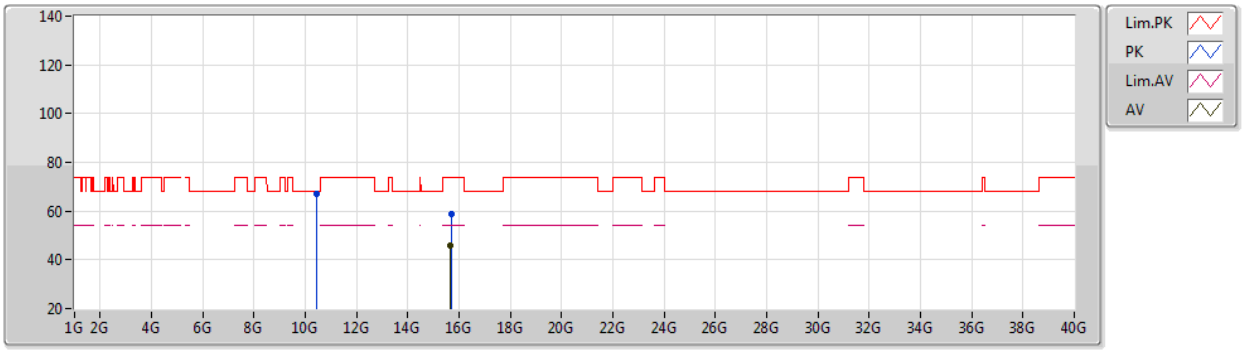
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1496G	61.56	74.00	-12.44	55.87	3	Horizontal	25	2.20	-	34.05	6.61	34.97
AV	5.15G	49.56	54.00	-4.44	43.87	3	Horizontal	25	2.20	-	34.05	6.61	34.97
PK	5.2312G	116.59	Inf	-Inf	110.73	3	Horizontal	25	2.20	-	34.16	6.68	34.98
AV	5.2318G	107.58	Inf	-Inf	101.72	3	Horizontal	25	2.20	-	34.16	6.68	34.98
PK	5.3626G	59.40	74.00	-14.60	53.41	3	Horizontal	25	2.20	-	34.36	6.62	34.99
AV	5.3704G	46.87	54.00	-7.13	40.88	3	Horizontal	25	2.20	-	34.37	6.61	34.99

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

10/12/2019



EUT X_2TX
Setting 22
03-C-A-3

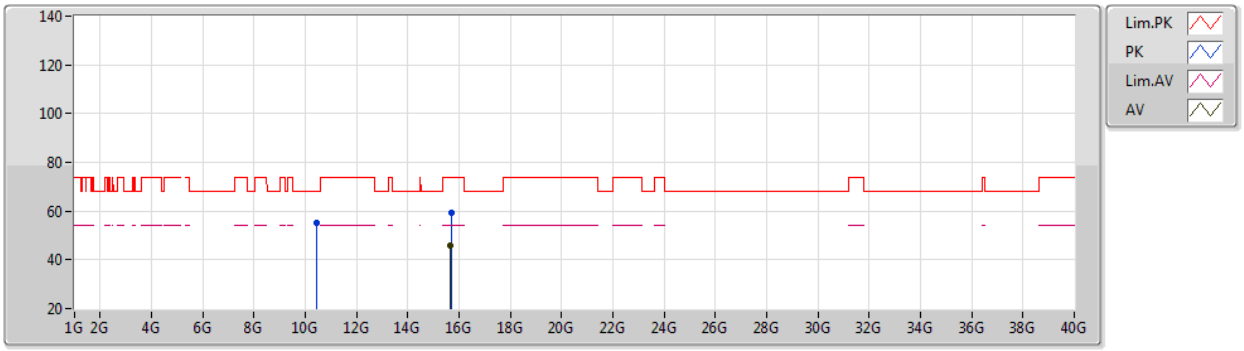
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.45868G	67.28	68.20	-0.92	54.54	3	Vertical	53	1.80	-	38.39	9.42	35.07
PK	15.68388G	58.99	74.00	-15.01	45.32	3	Vertical	1	2.08	-	38.45	10.34	35.12
AV	15.68004G	45.82	54.00	-8.18	32.14	3	Vertical	1	2.08	-	38.46	10.34	35.12

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5230MHz_TX



EUT X_2TX
Setting 22
03-C-A-3

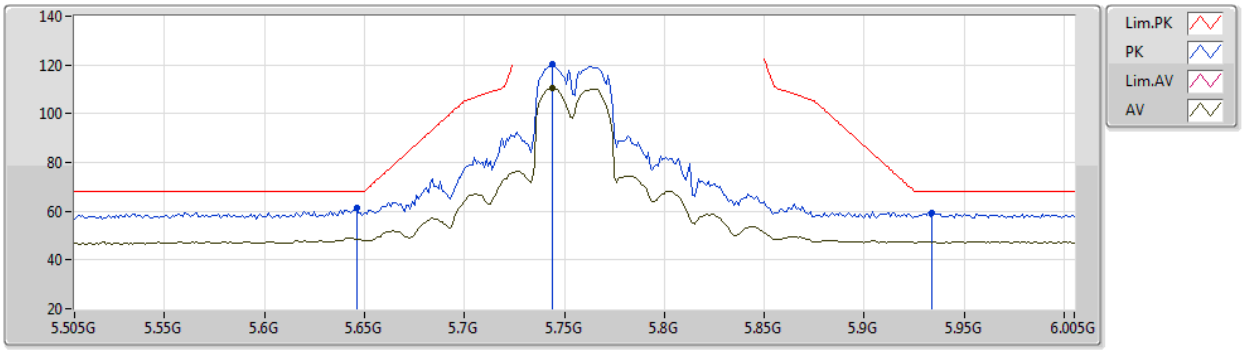
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.45988G	55.10	68.20	-13.10	42.36	3	Horizontal	35	1.71	-	38.39	9.42	35.07
PK	15.68862G	59.27	74.00	-14.73	45.63	3	Horizontal	4	1.57	-	38.43	10.34	35.13
AV	15.67596G	45.77	54.00	-8.23	32.07	3	Horizontal	4	1.57	-	38.47	10.35	35.12

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5755MHz_TX



EUT X_2TX
Setting 24
03-C-A-3-10

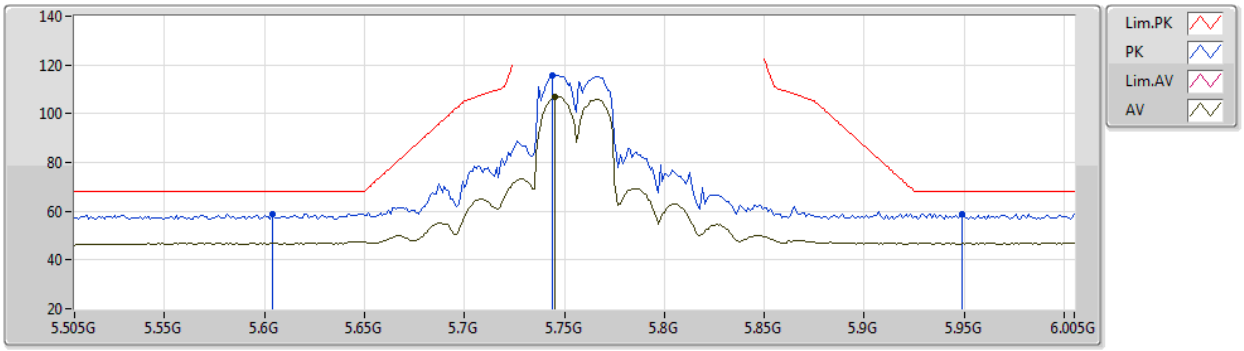
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.646G	61.22	68.20	-6.98	54.99	3	Vertical	351	1.82	-	34.35	6.88	35.00
PK	5.744G	120.16	Inf	-Inf	114.05	3	Vertical	351	1.82	-	34.30	6.83	35.02
AV	5.744G	110.37	Inf	-Inf	104.26	3	Vertical	351	1.82	-	34.30	6.83	35.02
PK	5.934G	59.17	68.20	-9.03	52.74	3	Vertical	351	1.82	-	34.60	6.87	35.04

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5755MHz_TX



EUT X_2TX
Setting 24
03-C-A-3-10

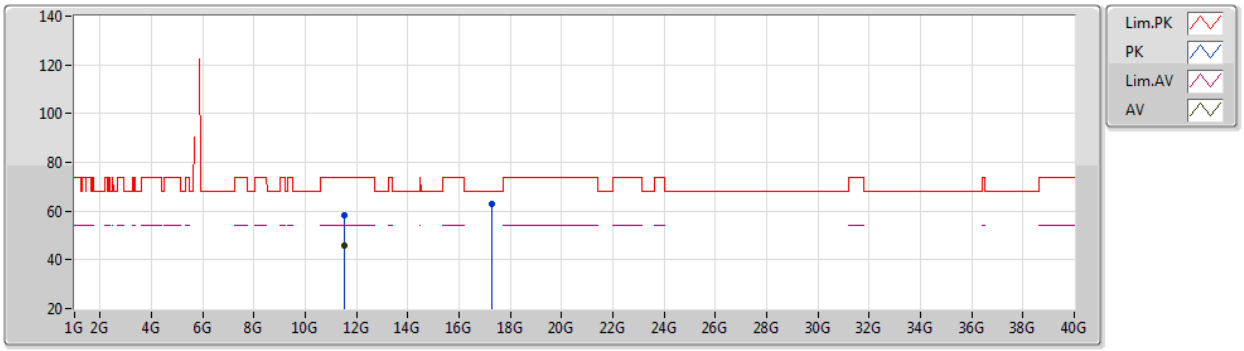
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.604G	58.86	68.20	-9.34	52.56	3	Horizontal	63	1.63	-	34.40	6.90	35.00
PK	5.744G	115.83	Inf	-Inf	109.72	3	Horizontal	63	1.63	-	34.30	6.83	35.02
AV	5.745G	106.86	Inf	-Inf	100.75	3	Horizontal	63	1.63	-	34.30	6.83	35.02
PK	5.949G	59.03	68.20	-9.17	52.55	3	Horizontal	63	1.63	-	34.65	6.87	35.04

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5755MHz_TX



EUT X_2TX
Setting 24
03-C-A-3

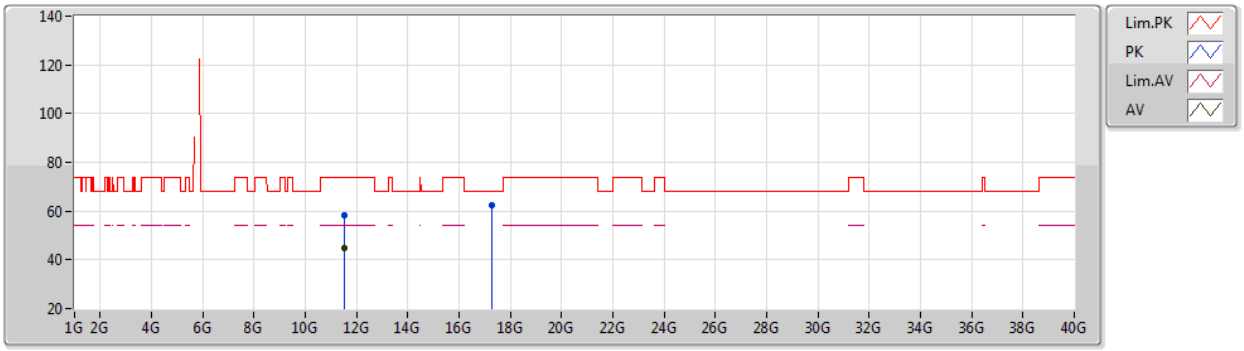
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.50928G	58.36	74.00	-15.64	44.60	3	Vertical	5	2.29	-	38.86	9.68	34.78
AV	11.5061G	45.74	54.00	-8.26	31.99	3	Vertical	5	2.29	-	38.85	9.68	34.78
PK	17.26938G	63.12	68.20	-5.08	44.94	3	Vertical	71	2.42	-	41.27	11.58	34.67

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5755MHz_TX



EUT X_2TX
Setting 24
03-C-A-3

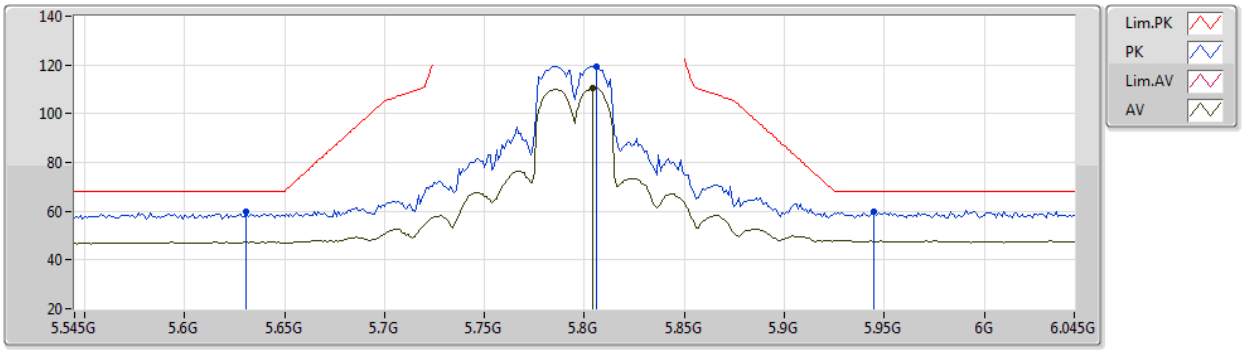
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.51054G	58.44	74.00	-15.56	44.68	3	Horizontal	360	1.76	-	38.86	9.68	34.78
AV	11.50976G	45.01	54.00	-8.99	31.25	3	Horizontal	360	1.76	-	38.86	9.68	34.78
PK	17.27094G	62.21	68.20	-5.99	44.01	3	Horizontal	278	2.06	-	41.28	11.59	34.67

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5795MHz_TX



EUT X_2TX
Setting 24
03-C-A-3-10

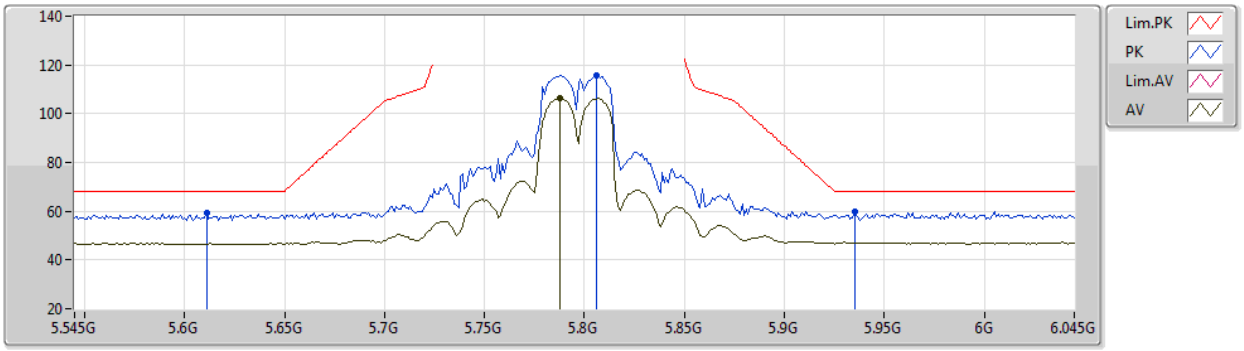
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.631G	59.71	68.20	-8.49	53.46	3	Vertical	350	1.80	-	34.37	6.88	35.00
PK	5.806G	119.52	Inf	-Inf	113.44	3	Vertical	350	1.80	-	34.31	6.80	35.03
AV	5.804G	110.66	Inf	-Inf	104.58	3	Vertical	350	1.80	-	34.31	6.80	35.03
PK	5.945G	60.03	68.20	-8.17	53.57	3	Vertical	350	1.80	-	34.63	6.87	35.04

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

10/12/2019



EUT X_2TX
Setting 24
03-C-A-3-10

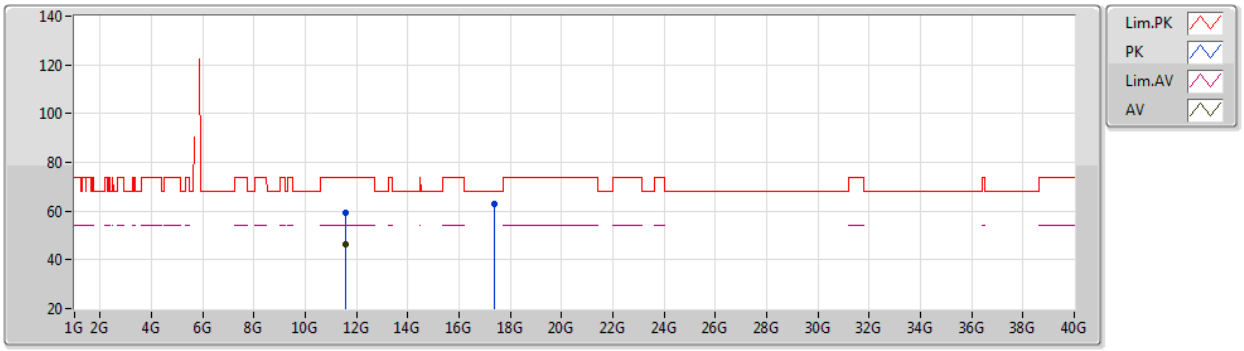
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.611G	59.06	68.20	-9.14	52.78	3	Horizontal	62	1.55	-	34.39	6.89	35.00
PK	5.806G	115.74	Inf	-Inf	109.66	3	Horizontal	62	1.55	-	34.31	6.80	35.03
AV	5.788G	106.41	Inf	-Inf	100.33	3	Horizontal	62	1.55	-	34.30	6.81	35.03
PK	5.935G	59.73	68.20	-8.47	53.30	3	Horizontal	62	1.55	-	34.60	6.87	35.04

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5795MHz_TX



EUT X_2TX
Setting 24
03-C-A-3

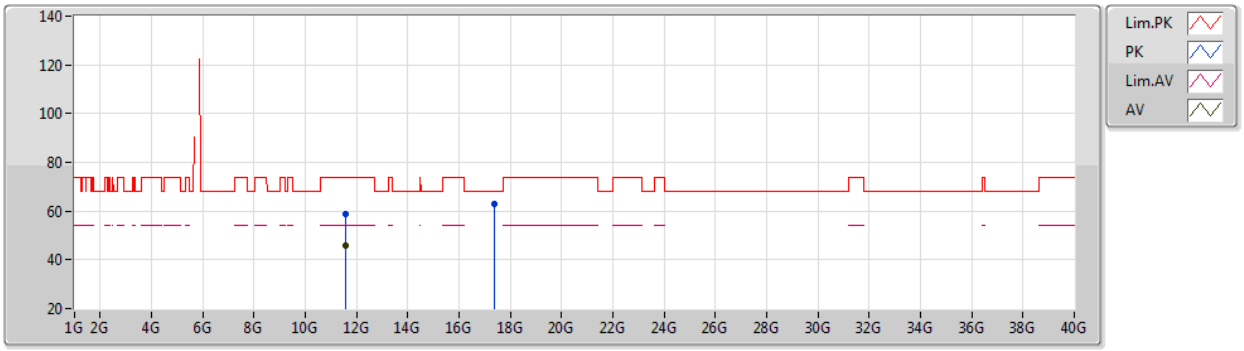
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5879G	59.22	74.00	-14.78	45.40	3	Vertical	312	1.72	-	38.91	9.70	34.79
AV	11.59G	46.60	54.00	-7.40	32.78	3	Vertical	312	1.72	-	38.91	9.70	34.79
PK	17.38482G	63.02	68.20	-5.18	44.15	3	Vertical	131	2.65	-	41.86	11.70	34.69

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT40_Nss1,(MCS0)_2TX

10/12/2019

5795MHz_TX



EUT X_2TX
Setting 24
03-C-A-3

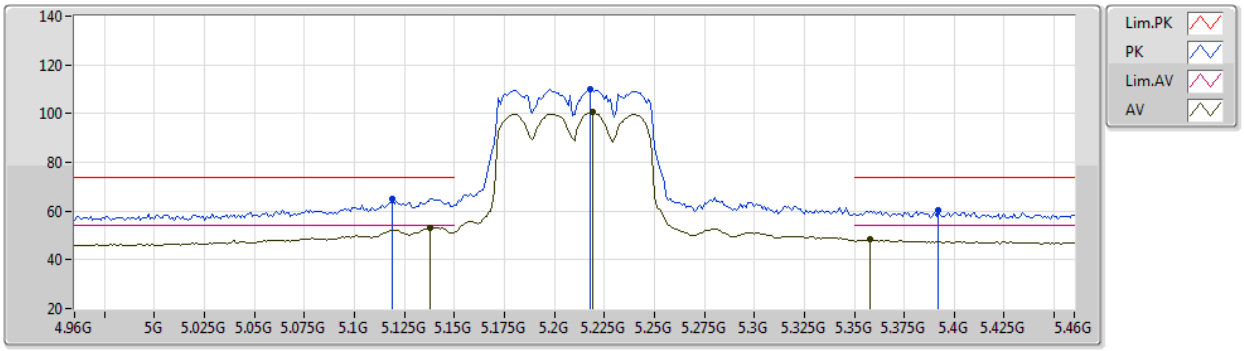
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.58928G	58.76	74.00	-15.24	44.94	3	Horizontal	356	2.41	-	38.91	9.70	34.79
AV	11.58952G	46.02	54.00	-7.98	32.20	3	Horizontal	356	2.41	-	38.91	9.70	34.79
PK	17.39082G	62.71	68.20	-5.49	43.81	3	Horizontal	302	1.53	-	41.89	11.70	34.69

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

10/12/2019



EUT X_2TX
Setting 18.5
03-C-A-3-10

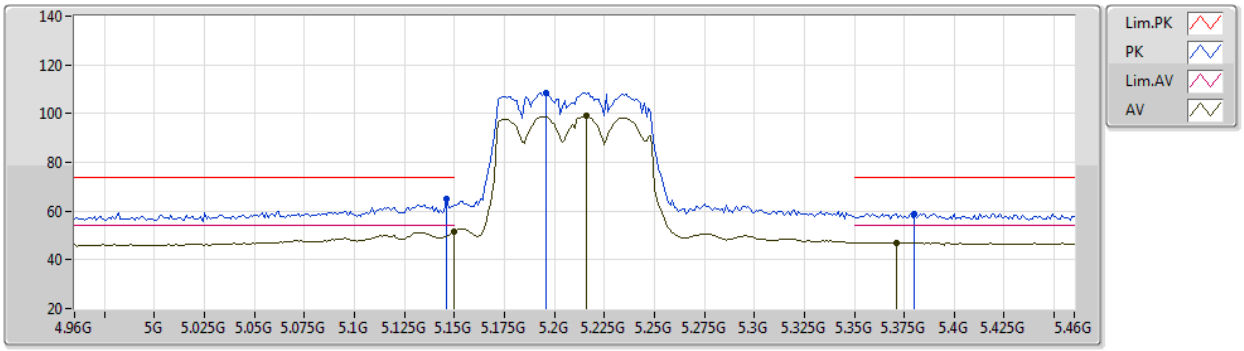
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.119G	65.03	74.00	-8.97	59.43	3	Vertical	22	1.80	-	34.02	6.55	34.97
AV	5.138G	53.35	54.00	-0.65	47.69	3	Vertical	22	1.80	-	34.04	6.59	34.97
PK	5.218G	110.06	Inf	-Inf	104.21	3	Vertical	22	1.80	-	34.14	6.69	34.98
AV	5.219G	100.60	Inf	-Inf	94.75	3	Vertical	22	1.80	-	34.14	6.69	34.98
PK	5.392G	60.46	74.00	-13.54	54.46	3	Vertical	22	1.80	-	34.39	6.60	34.99
AV	5.358G	48.21	54.00	-5.79	42.22	3	Vertical	22	1.80	-	34.36	6.62	34.99

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

10/12/2019



EUT X_2TX
Setting 18.5
03-C-A-3-10

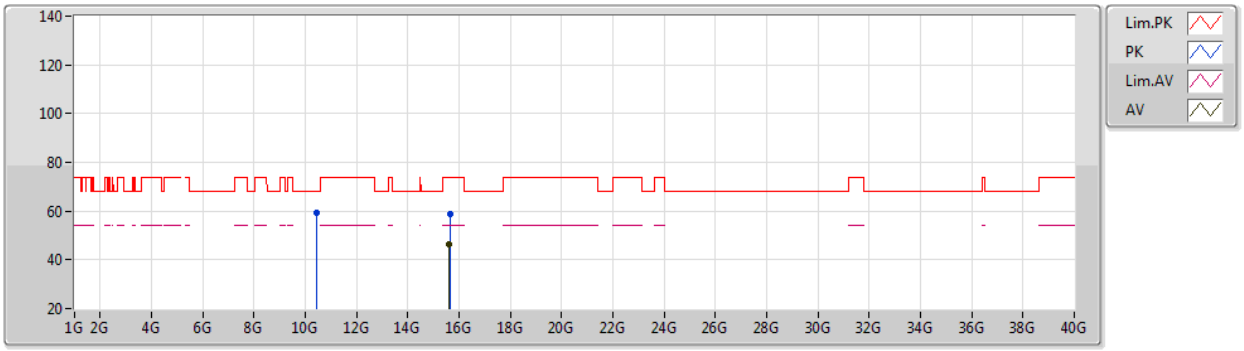
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.146G	65.21	74.00	-8.79	59.53	3	Horizontal	9	1.81	-	34.05	6.60	34.97
AV	5.15G	51.81	54.00	-2.19	46.12	3	Horizontal	9	1.81	-	34.05	6.61	34.97
PK	5.196G	108.66	Inf	-Inf	102.85	3	Horizontal	9	1.81	-	34.10	6.69	34.98
AV	5.216G	99.08	Inf	-Inf	93.24	3	Horizontal	9	1.81	-	34.13	6.69	34.98
PK	5.38G	58.97	74.00	-15.03	52.97	3	Horizontal	9	1.81	-	34.38	6.61	34.99
AV	5.371G	47.05	54.00	-6.95	41.06	3	Horizontal	9	1.81	-	34.37	6.61	34.99

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

10/12/2019



EUT X_2TX
Setting 18.5
03-C-A-3

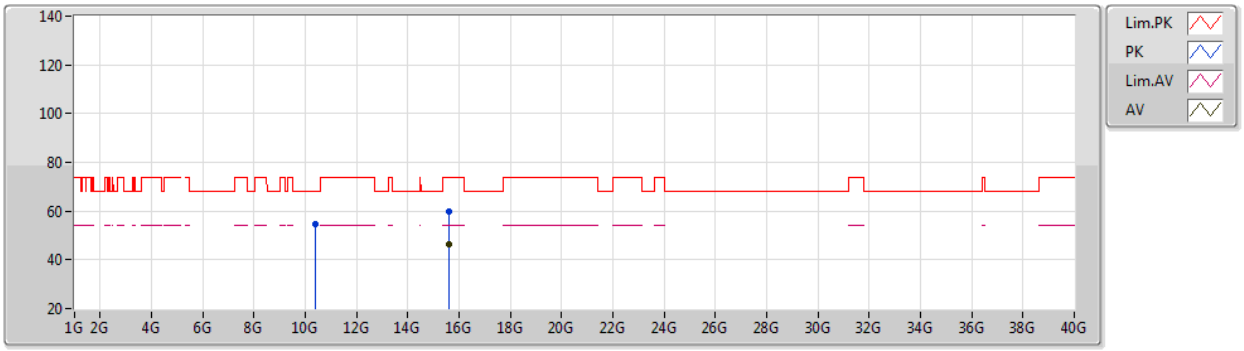
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.449G	59.45	68.20	-8.75	46.71	3	Vertical	53	1.77	-	38.39	9.42	35.07
PK	15.6312G	58.76	74.00	-15.24	44.87	3	Vertical	65	2.66	-	38.61	10.35	35.07
AV	15.61704G	46.21	54.00	-7.79	32.27	3	Vertical	65	2.66	-	38.65	10.35	35.06

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT80_Nss1,(MCS0)_2TX

10/12/2019

5210MHz_TX



EUT X_2TX
Setting 18.5
03-C-A-3

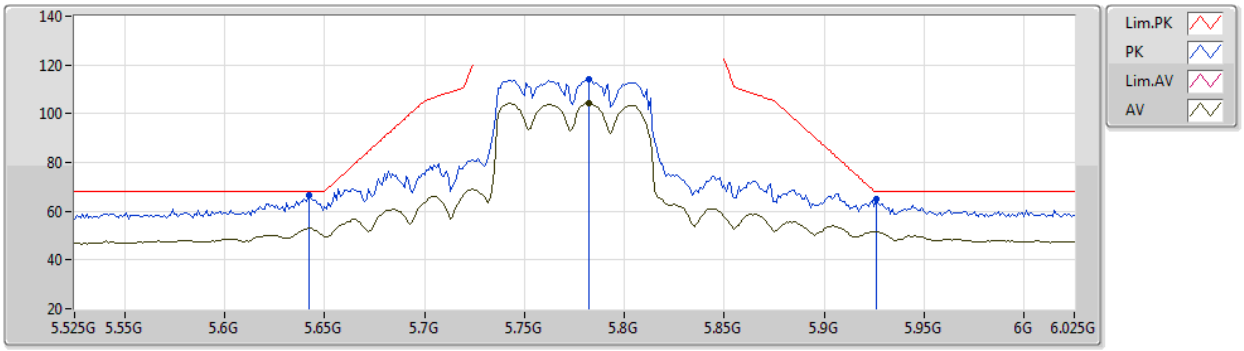
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.392G	54.41	68.20	-13.79	41.74	3	Horizontal	35	1.72	-	38.38	9.40	35.11
PK	15.62262G	59.68	74.00	-14.32	45.76	3	Horizontal	245	1.97	-	38.63	10.35	35.06
AV	15.61716G	46.52	54.00	-7.48	32.58	3	Horizontal	245	1.97	-	38.65	10.35	35.06

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT80_Nss1,(MCS0)_2TX

10/12/2019

5775MHz_TX



EUT X_2TX
Setting 21.5
03-C-A-3-10

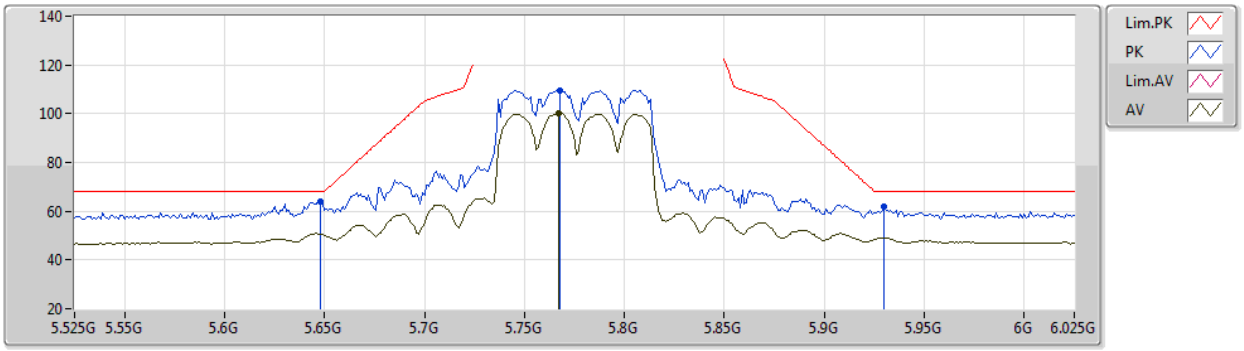
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.642G	66.45	68.20	-1.75	60.21	3	Vertical	353	1.84	-	34.36	6.88	35.00
PK	5.782G	113.88	Inf	-Inf	107.80	3	Vertical	353	1.84	-	34.30	6.81	35.03
AV	5.782G	104.23	Inf	-Inf	98.15	3	Vertical	353	1.84	-	34.30	6.81	35.03
PK	5.926G	64.78	68.20	-3.42	58.38	3	Vertical	353	1.84	-	34.58	6.86	35.04

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

10/12/2019



EUT X_2TX
Setting 21.5
03-C-A-3-10

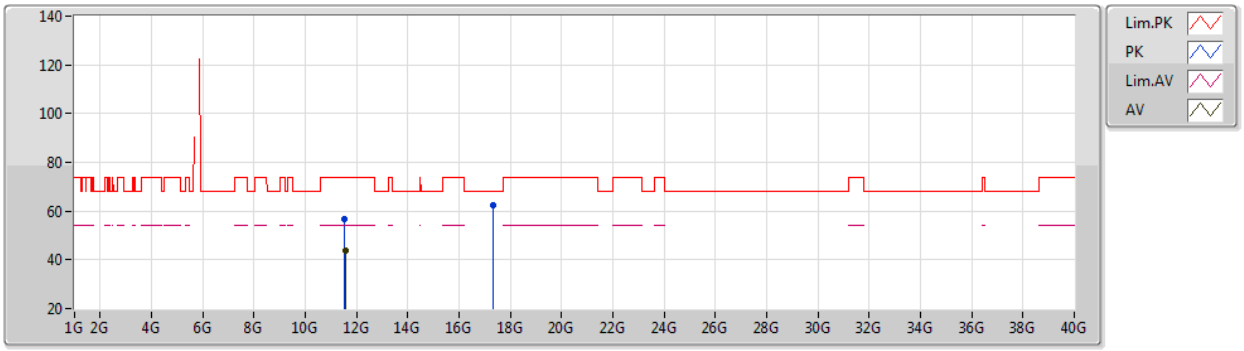
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.648G	63.75	68.20	-4.45	57.52	3	Horizontal	64	1.68	-	34.35	6.88	35.00
PK	5.768G	109.74	Inf	-Inf	103.64	3	Horizontal	64	1.68	-	34.30	6.82	35.02
AV	5.767G	100.40	Inf	-Inf	94.30	3	Horizontal	64	1.68	-	34.30	6.82	35.02
PK	5.93G	61.78	68.20	-6.42	55.37	3	Horizontal	64	1.68	-	34.59	6.86	35.04

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

10/12/2019



EUT X_2TX
Setting 21.5
03-C-A-3

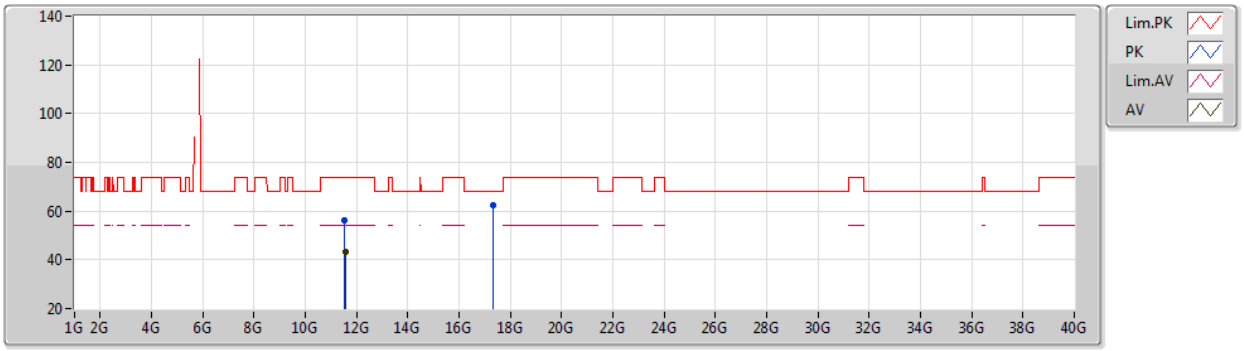
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.54874G	56.70	74.00	-17.30	42.92	3	Vertical	313	1.79	-	38.88	9.69	34.79
AV	11.54982G	43.55	54.00	-10.45	29.77	3	Vertical	313	1.79	-	38.88	9.69	34.79
PK	17.31618G	62.37	68.20	-5.83	43.91	3	Vertical	83	1.90	-	41.51	11.63	34.68

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

802.11ac VHT80_Nss1,(MCS0)_2TX

10/12/2019

5775MHz_TX



EUT X_2TX
Setting 21.5
03-C-A-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.54052G	56.44	74.00	-17.56	42.66	3	Horizontal	231	2.13	-	38.88	9.69	34.79
AV	11.54958G	43.23	54.00	-10.77	29.45	3	Horizontal	231	2.13	-	38.88	9.69	34.79
PK	17.33358G	62.62	68.20	-5.58	44.05	3	Horizontal	27	2.96	-	41.60	11.65	34.68

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)