Testing Laboratory 1190

FCC RADIO TEST REPORT

FCC ID	:	O2U-5541
Equipment	:	Wireless Access Point
Brand Name	:	cbn
Model Name	:	AP5541
Applicant	:	COMPAL BROADBAND NETWORKS,INC. 13F-1, No.1, Taiyuan 1st St., Zhubei City, Hsinchu County 30288, Taiwan, R.O.C.
Manufacturer	:	COMPAL BROADBAND NETWORKS,INC. 13F-1, No.1, Taiyuan 1st St., Zhubei City, Hsinchu County 30288, Taiwan, R.O.C.
Standard	:	47 CFR FCC Part 15.407

The product was received on Sep. 02, 2020, and testing was started from Sep. 08, 2020 and completed on Nov. 10, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

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

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Photographs of EUT v01

History of this test report

Report No.	Version	Description	Issued Date
FR082543AB	01	Initial issue of report	Dec. 31, 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: Vicky Huang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	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.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						2.4GHz	5GHz
1	2	CBN	AP5541	PIFA Antenna	N/A	2.8	-
2	1	CBN	AP5541	PIFA Antenna	N/A	3.7	-
3	1	CBN	AP5541	PIFA Antenna	N/A	-	3.1
4	2	CBN	AP5541	PIFA Antenna	N/A	-	3.5

Note: The above information was declared by manufacturer.

<For WLAN 2.4GHz Function>

For IEEE 802.11b/g/n/VHT mode (2TX/2RX):

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For WLAN 5GHz Function>

For IEEE 802.11a/n/ac mode (2TX/2RX):

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

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.965	0.15	2.029m	1k
802.11ac VHT20	0.87	0.6	4.975m	300
802.11ac VHT40	0.805	0.94	2.418m	1k
802.11ac VHT80	0.804	0.95	3.329m	1k

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	QSPR V5.0-00186			
Test Sample Serial Number	For AC Conduction: 730293900038 For Radiated(below 1GHz): 730294900020 For RF Conducted and Radiated(above 1GHz): 1415541200003			

Note: The above information was declared by manufacturer.

1.2 Applicable Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- FCC KDB 789033 D02 v02r01

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

- FCC KDB 662911 D01 v02r01
- FCC KDB 412172 D01 v01r01
- FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location							
☐	HWA YA	ADD	:	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)			
		TEL	:	886-3-327-3456	FAX	:	886-3-327-0973
☒	JHUBEI	ADD	:	No.8, Ln. 724, Bo'ai St., Zhubei 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	Nyle Chang	23-24.3°C / 51-54%	Sep. 11, 2020~ Nov. 10, 2020
Radiated (below 1GHz)	03CH01-CB	Stim Sung	24.3-24.9°C / 55-58%	Nov. 10, 2020
Radiated (above 1GHz)	03CH01-CB	JN Tu	24.3-24.9°C /55-58%	Sep. 08, 2020~ Oct. 30, 2020
AC Conduction	CO01-CB	Wei Li	23~24°C / 59~62%	Oct. 30, 2020

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

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.9 dB	Confidence levels of 95%
Conducted Emission	2.8 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.4%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	18.5
5200MHz	23
5240MHz	18
5745MHz	15.5
5785MHz	23
5825MHz	23
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	20
5200MHz	23
5240MHz	18
5745MHz	15.5
5785MHz	23
5825MHz	23
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	16
5230MHz	18
5755MHz	15
5795MHz	23
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	15.5
5775MHz	20

2.2 The Worst Case Measurement Configuration

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

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA082543 for Co-location RF Exposure Evaluation.	

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

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

Accessories			
Equipment Name	**Brand Name**	**Model Name**	**Rating**
Adapter	APD	WB-18Q12FU	Input: 100-240V~,50-60Hz, 0.6A Max. Output:12V, 1.5A
Other			
RJ-45 cable, non-shielded 1.5m			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	WAN NB	DELL	E6430	N/A
B	LAN NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A

For Radiated (below 1GHz):

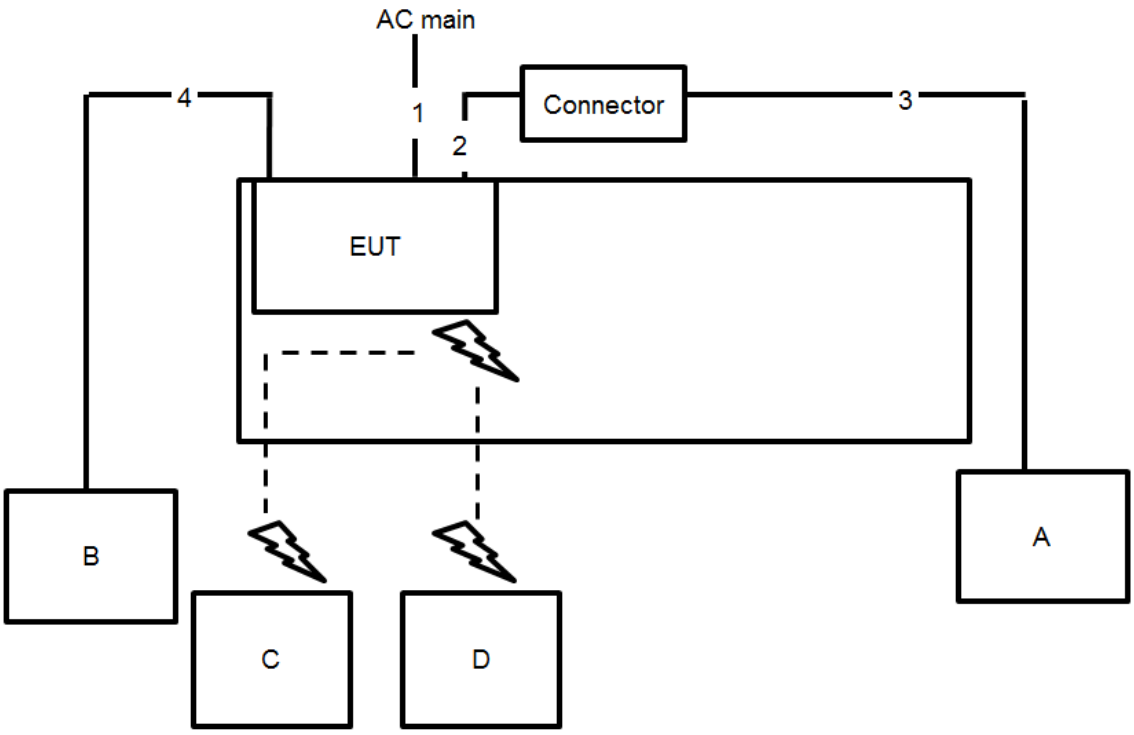
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN NB	DELL	E4300	N/A
B	2.4G NB	DELL	E4300	N/A
C	5G NB	DELL	E4300	N/A
D	WLAN AP	Netgear	R7500	PY314300288
E	WAN NB	DELL	E4300	N/A

For Radiated (above 1GHz) and RF Conducted:

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

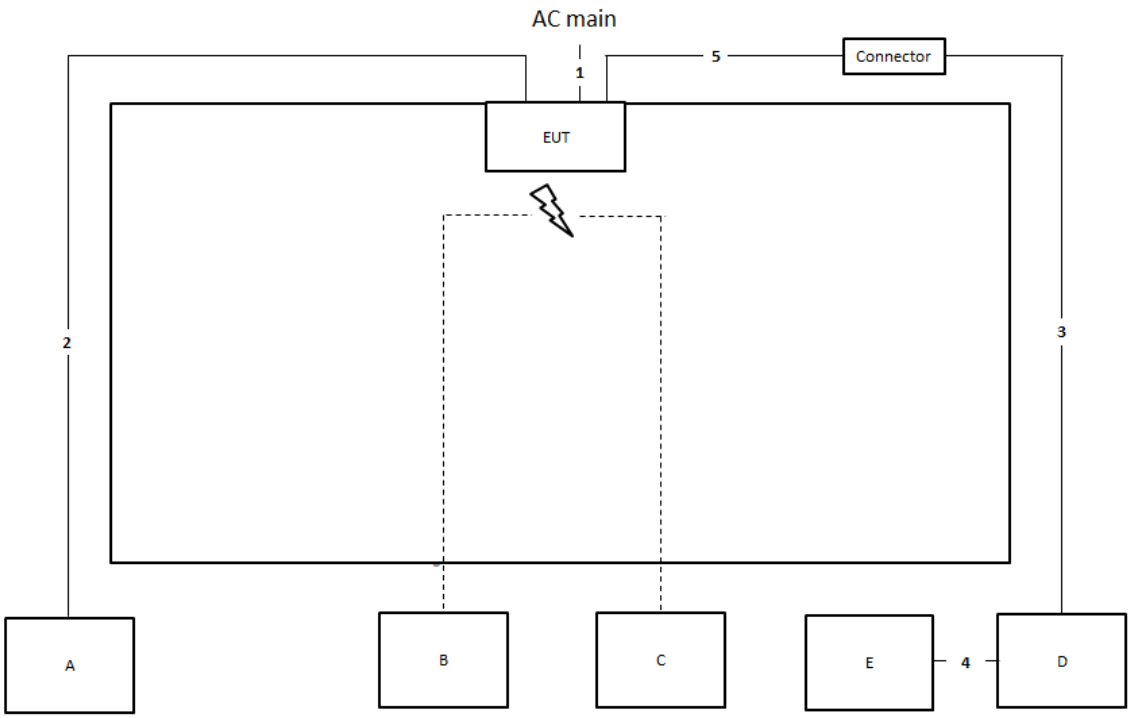
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



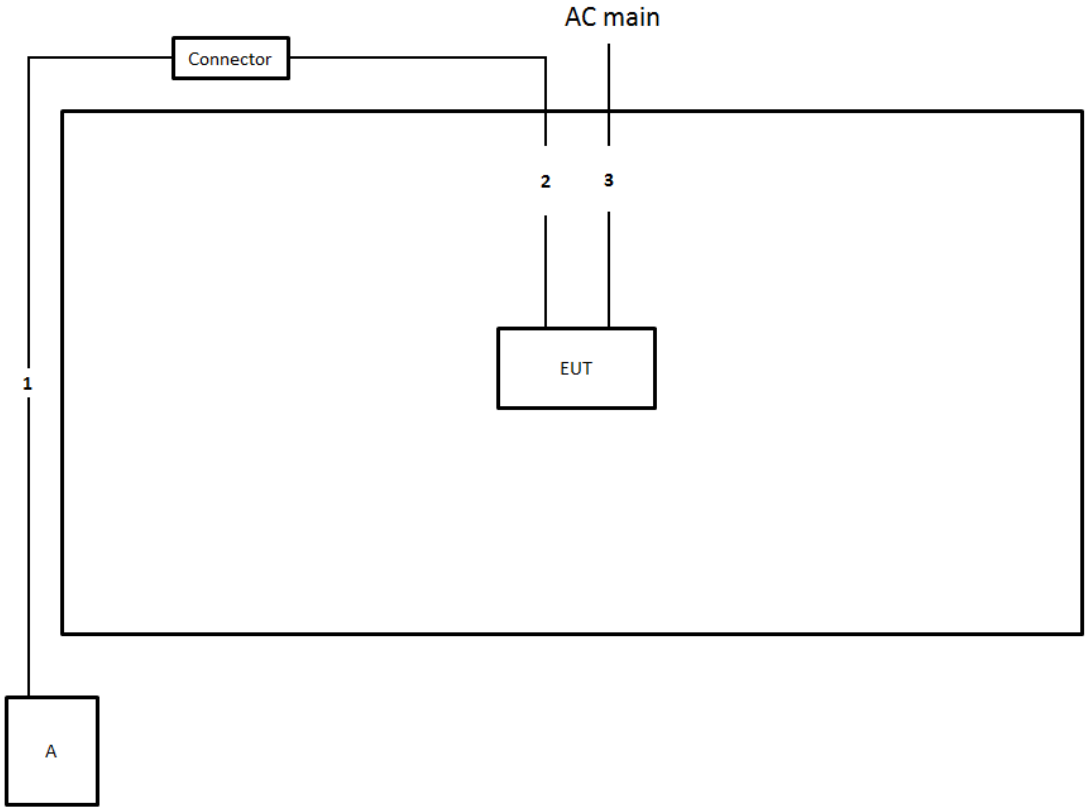
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test < 1GHz



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

Test Setup Diagram - Radiated Test > 1GHz



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

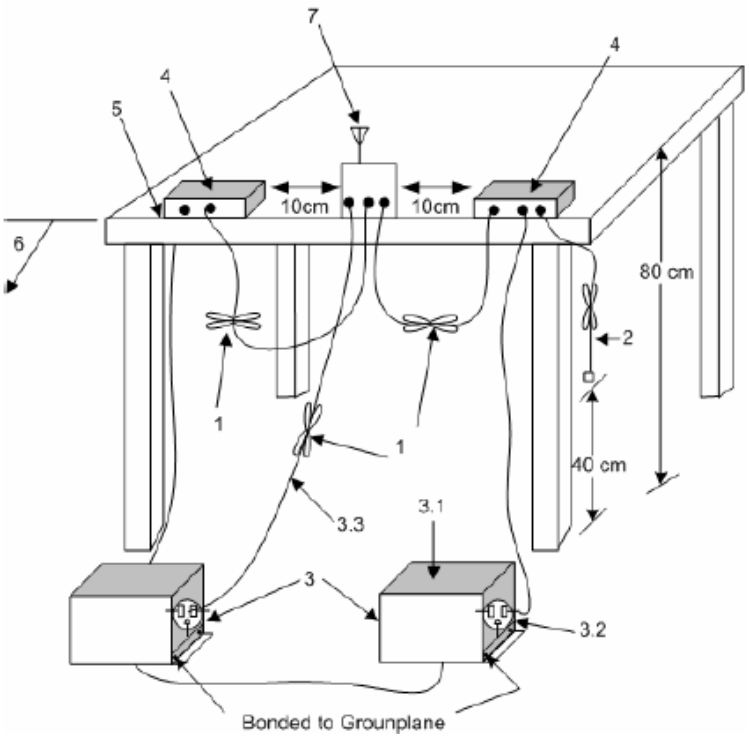
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



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

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level

b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

3.2.2 Measuring Instruments

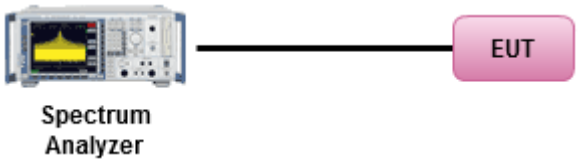
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

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

3.2.4 Test Setup

Emission Bandwidth



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup

RF Output Power (Power Meter)

3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

3.4.2 Measuring Instruments

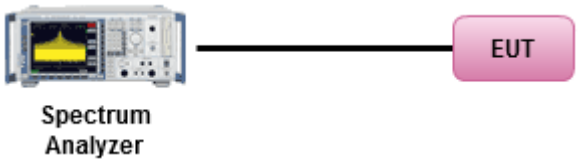
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

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

3.4.4 Test Setup

Power Spectral Density



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

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

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

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

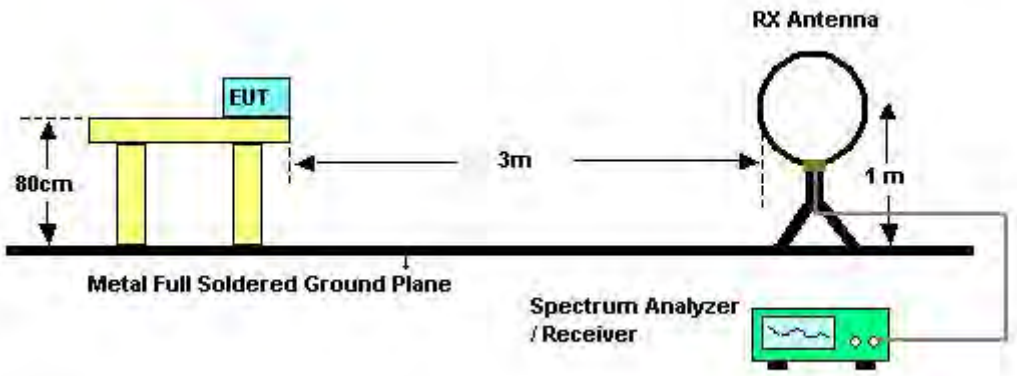
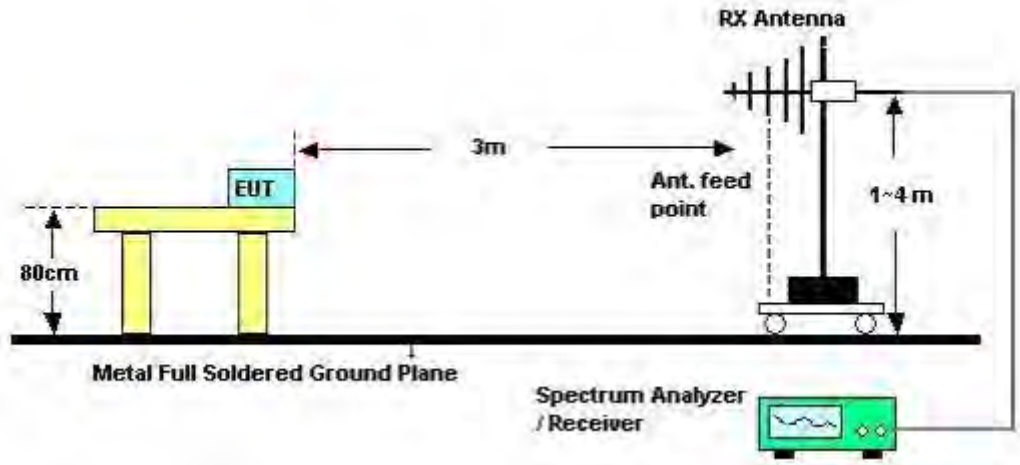
3.5.2 Measuring Instruments

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

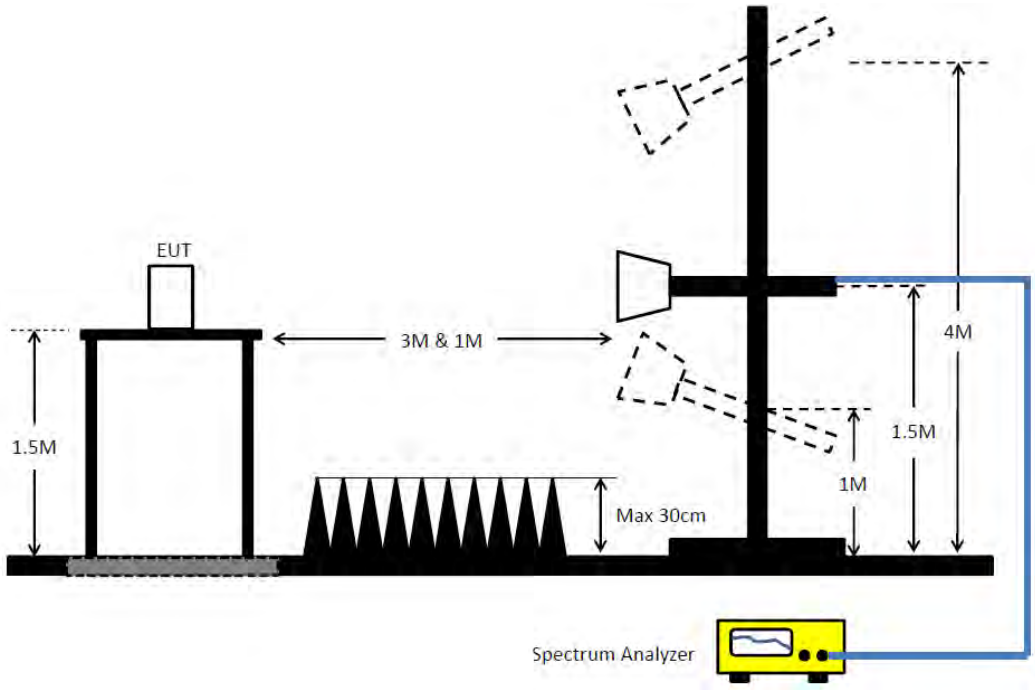
3.5.3 Test Procedures

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

3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



3.5.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th 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	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 31, 2020	Jan. 30, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30 MHz ~ 1 GHz	Jan. 28, 2020	Jan. 27, 2021	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 29, 2020	May 28, 2021	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 28, 2020	Feb. 27, 2021	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 04, 2019	Nov. 03, 2020	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	Jul. 03, 2020	Jun. 02, 2021	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2020	Jan. 07, 2021	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Apr. 16, 2020	Apr. 15, 2021	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-16+17	30 MHz ~ 1 GHz	Jul. 20, 2020	Jul. 19, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 05, 2020	May 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	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-07	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	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-08	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	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-09	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	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-10	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz – 26.5 GHz	Nov. 18, 2019	Nov. 17, 2020	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

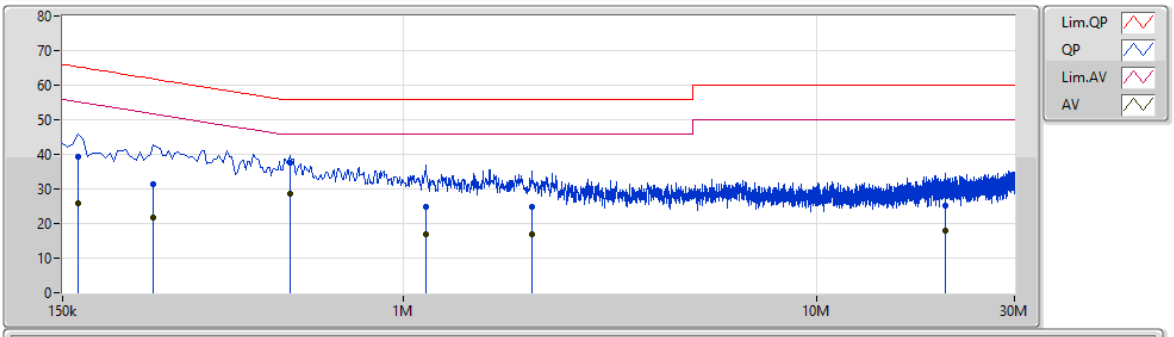
Note: Calibration Interval of instruments listed above is one year.
NCR means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	537k	33.18	46.00	-12.82	Neutral

Mode 1

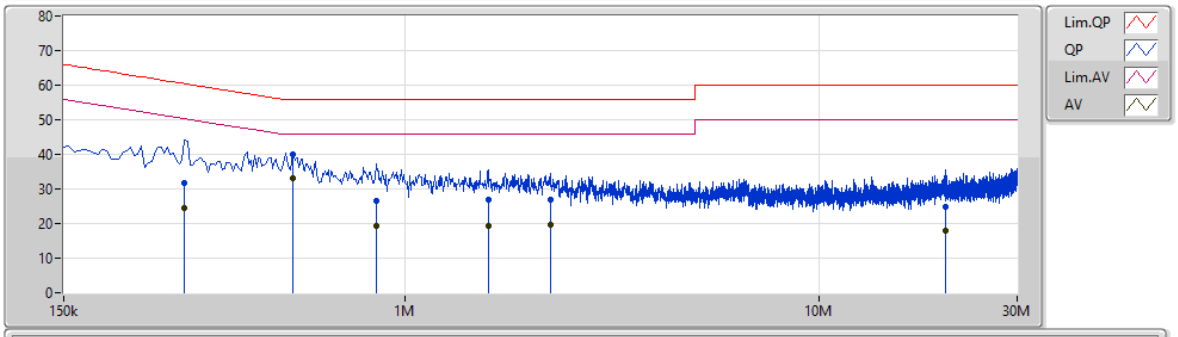
30/10/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	163.5k	39.28	65.27	-25.99	9.89	Line	-	29.39	0.05	0.03	9.81
AV	163.5k	25.79	55.27	-29.48	9.89	Line	-	15.90	0.05	0.03	9.81
QP	249k	31.25	61.79	-30.54	9.89	Line	-	21.36	0.04	0.03	9.82
AV	249k	21.86	51.79	-29.93	9.89	Line	-	11.97	0.04	0.03	9.82
QP	532.5k	37.54	56.00	-18.46	9.90	Line	-	27.64	0.04	0.03	9.83
AV	532.5k	28.78	46.00	-17.22	9.90	Line	"Worst"	18.88	0.04	0.03	9.83
QP	1.131M	24.71	56.00	-31.29	9.94	Line	-	14.77	0.05	0.05	9.84
AV	1.131M	16.77	46.00	-29.23	9.94	Line	-	6.83	0.05	0.05	9.84
QP	2.045M	24.90	56.00	-31.10	9.99	Line	-	14.91	0.06	0.07	9.86
AV	2.045M	16.96	46.00	-29.04	9.99	Line	-	6.97	0.06	0.07	9.86
QP	20.445M	25.06	60.00	-34.94	10.57	Line	-	14.49	0.24	0.33	10.00
AV	20.445M	17.95	50.00	-32.05	10.57	Line	-	7.38	0.24	0.33	10.00

Mode 1

30/10/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	294k	31.72	60.42	-28.70	9.90	Neutral	-	21.82	0.04	0.03	9.83
AV	294k	24.63	50.42	-25.79	9.90	Neutral	-	14.73	0.04	0.03	9.83
QP	537k	39.92	56.00	-16.08	9.91	Neutral	-	30.01	0.05	0.03	9.83
AV	537k	33.18	46.00	-12.82	9.91	Neutral	"Worst"	23.27	0.05	0.03	9.83
QP	852k	26.44	56.00	-29.56	9.93	Neutral	-	16.51	0.06	0.04	9.83
AV	852k	19.24	46.00	-26.76	9.93	Neutral	-	9.31	0.06	0.04	9.83
QP	1.586M	26.92	56.00	-29.08	9.98	Neutral	-	16.94	0.07	0.06	9.85
AV	1.586M	19.14	46.00	-26.86	9.98	Neutral	-	9.16	0.07	0.06	9.85
QP	2.243M	26.99	56.00	-29.01	10.01	Neutral	-	16.98	0.07	0.08	9.86
AV	2.243M	19.63	46.00	-26.37	10.01	Neutral	-	9.62	0.07	0.08	9.86
QP	20.121M	25.00	60.00	-35.00	10.54	Neutral	-	14.46	0.21	0.33	10.00
AV	20.121M	17.96	50.00	-32.04	10.54	Neutral	-	7.42	0.21	0.33	10.00

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	53.31M	35.802M	35M8D1D	27.69M	17.001M
802.11ac VHT20_Nss1,(MCS0)_2TX	54.69M	37.691M	37M7D1D	30.81M	18.111M
802.11ac VHT40_Nss1,(MCS0)_2TX	85.8M	38.501M	38M5D1D	46.5M	36.702M
802.11ac VHT80_Nss1,(MCS0)_2TX	102.72M	76.762M	76M8D1D	90.48M	76.402M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.32M	39.43M	39M4D1D	16.29M	16.732M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.7M	41.679M	41M7D1D	17.55M	17.871M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.36M	82.999M	83M0D1D	36.3M	36.762M
802.11ac VHT80_Nss1,(MCS0)_2TX	76.32M	103.148M	103MD1D	75.12M	96.312M

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

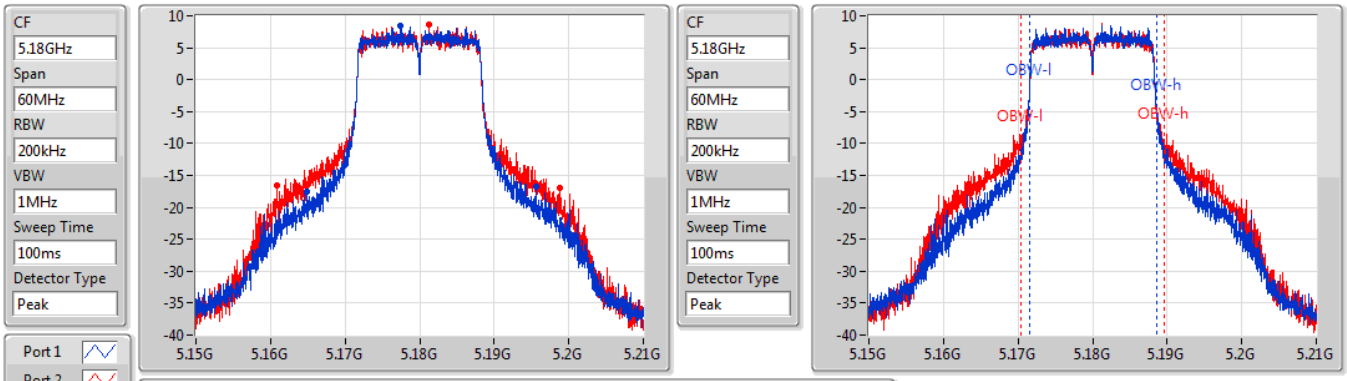
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	30.63M	17.061M	37.83M	19.31M
5200MHz	Pass	Inf	45.39M	31.724M	53.31M	35.802M
5240MHz	Pass	Inf	27.69M	17.001M	35.01M	18.291M
5745MHz	Pass	500k	16.32M	16.792M	16.32M	16.732M
5785MHz	Pass	500k	16.32M	38.171M	16.32M	39.43M
5825MHz	Pass	500k	16.29M	36.612M	16.32M	38.411M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	39.06M	20.24M	42.09M	26.177M
5200MHz	Pass	Inf	48.84M	33.973M	54.69M	37.691M
5240MHz	Pass	Inf	30.81M	18.111M	36.57M	19.31M
5745MHz	Pass	500k	17.55M	17.931M	17.58M	17.871M
5785MHz	Pass	500k	17.7M	40.48M	17.58M	41.679M
5825MHz	Pass	500k	17.55M	39.16M	17.58M	40.72M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	46.5M	36.702M	60.96M	36.942M
5230MHz	Pass	Inf	73.98M	37.121M	85.8M	38.501M
5755MHz	Pass	500k	36.3M	36.822M	36.36M	36.762M
5795MHz	Pass	500k	36.3M	81.559M	36.3M	82.999M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	90.48M	76.402M	102.72M	76.762M
5775MHz	Pass	500k	76.32M	103.148M	75.12M	96.312M

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

02/11/2020

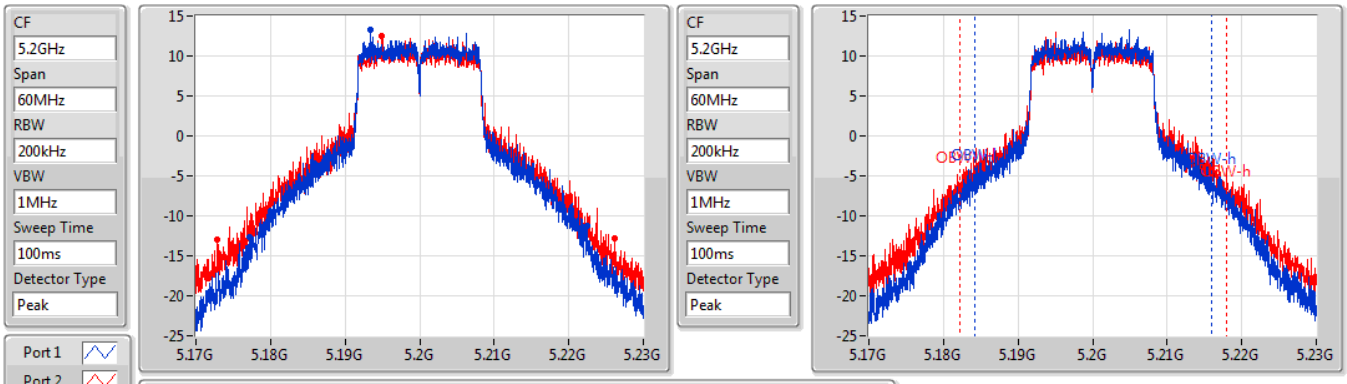


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30.63M	5.16494G	5.19557G	17.061M	5.171514G	5.188576G	Inf	1
37.83M	5.16089G	5.19872G	19.31M	5.170315G	5.189625G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5200MHz

02/11/2020

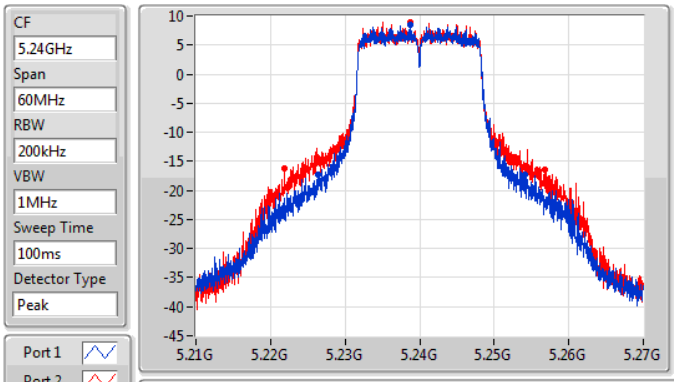


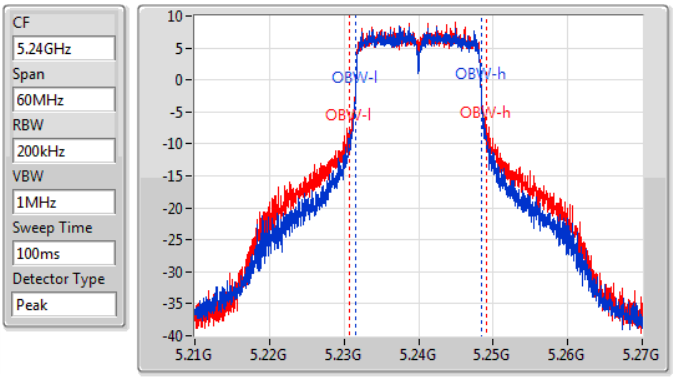
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
45.39M	5.17717G	5.22256G	31.724M	5.184198G	5.215922G	Inf	1
53.31M	5.17285G	5.22616G	35.802M	5.182129G	5.217931G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5240MHz

02/11/2020



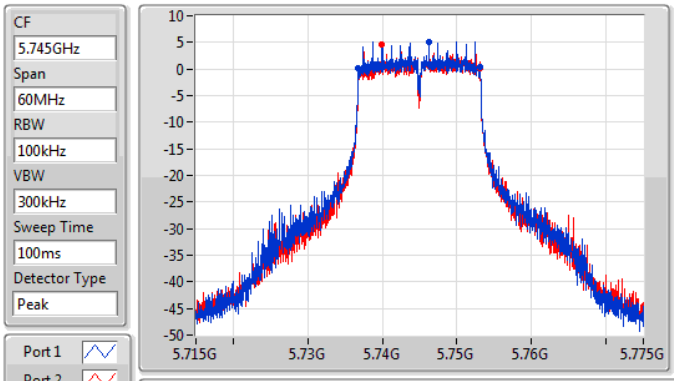


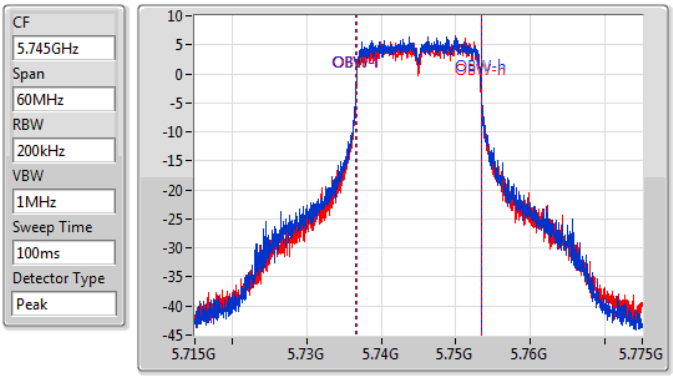
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.69M	5.22644G	5.25413G	17.001M	5.231484G	5.248486G	Inf	1
35.01M	5.22185G	5.25686G	18.291M	5.230765G	5.249055G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5745MHz

02/11/2020



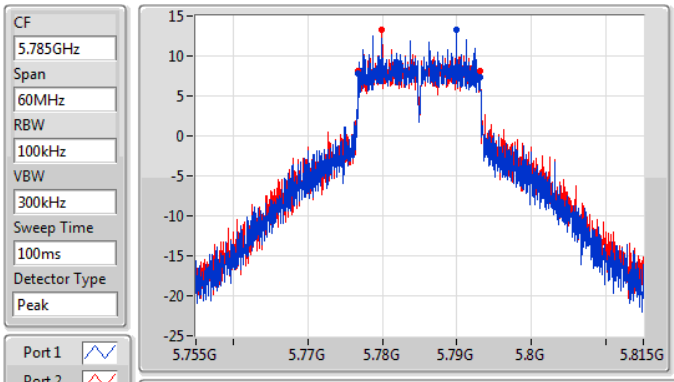


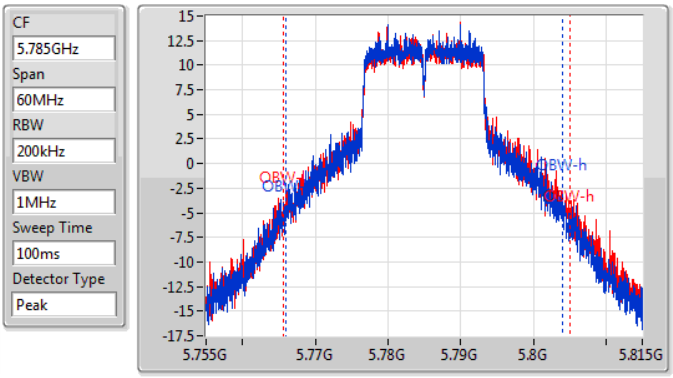
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.73681G	5.75313G	16.792M	5.736604G	5.753396G	500k	1
16.32M	5.73681G	5.75313G	16.732M	5.736664G	5.753396G	500k	2

802.11a_Nss1,(6Mbps)_2TX EBW

5785MHz

02/11/2020



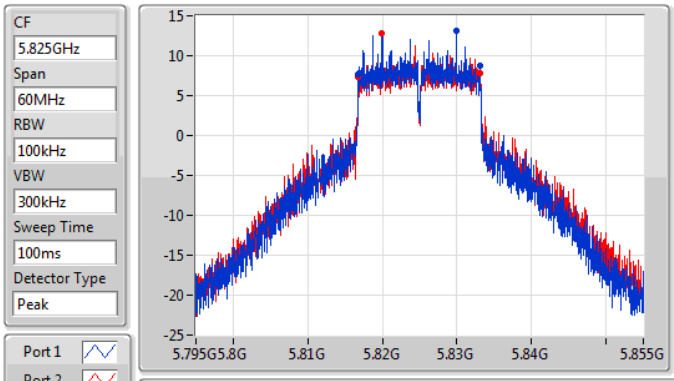


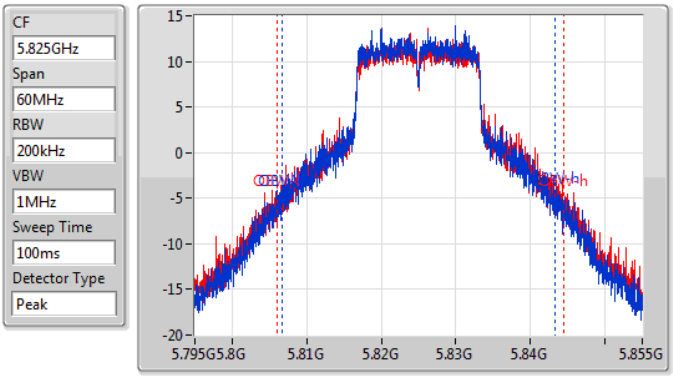
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.77681G	5.79313G	38.171M	5.7659G	5.80407G	500k	1
16.32M	5.77681G	5.79313G	39.43M	5.7656G	5.80503G	500k	2

802.11a_Nss1,(6Mbps)_2TX EBW

5825MHz

02/11/2020



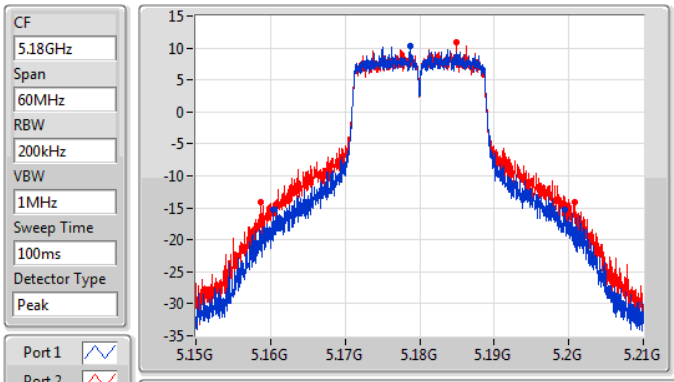


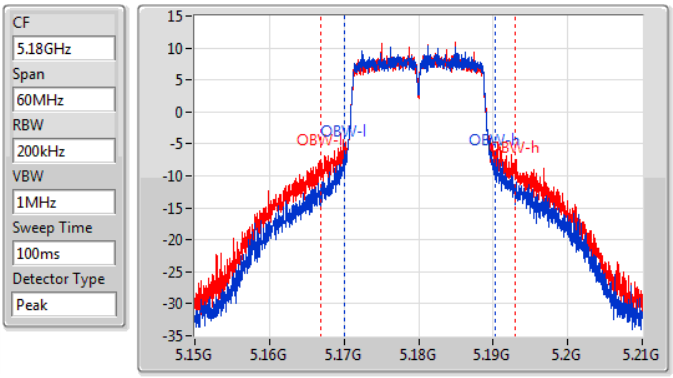
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.29M	5.81681G	5.8331G	36.612M	5.806679G	5.843291G	500k	1
16.32M	5.81681G	5.83313G	38.411M	5.80599G	5.8444G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5180MHz

02/11/2020



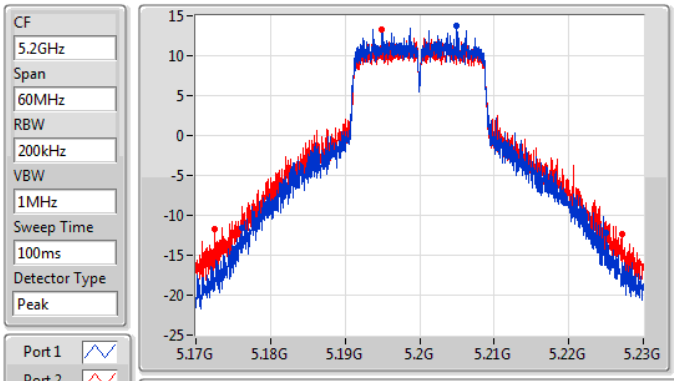


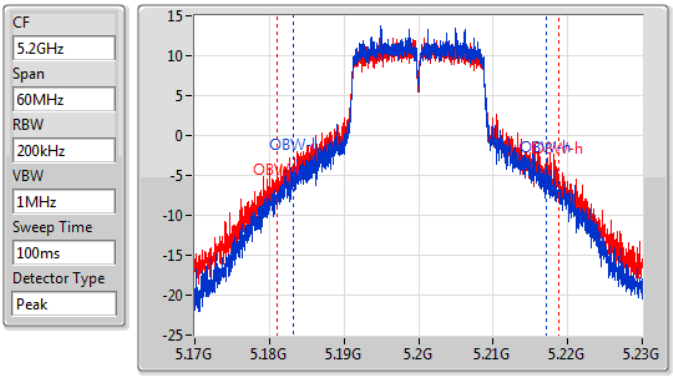
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.06M	5.16035G	5.19941G	20.24M	5.170075G	5.190315G	Inf	1
42.09M	5.1587G	5.20079G	26.177M	5.166837G	5.193013G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5200MHz

02/11/2020



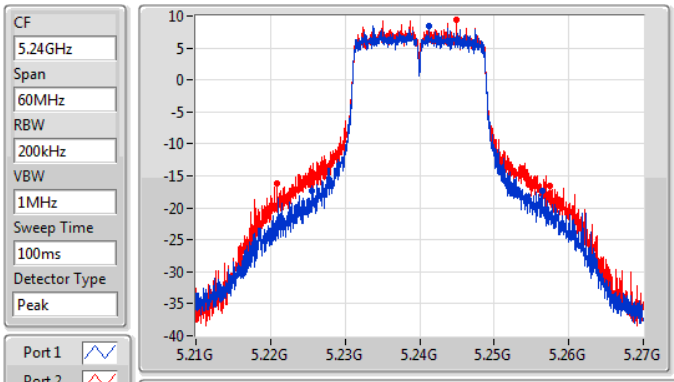


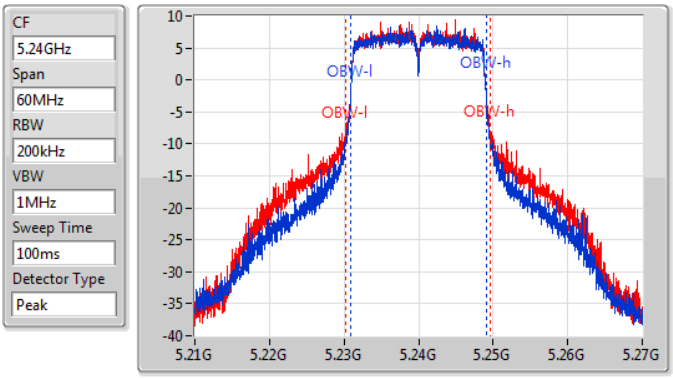
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
48.84M	5.17612G	5.22496G	33.973M	5.183238G	5.217211G	Inf	1
54.69M	5.17252G	5.22721G	37.691M	5.181109G	5.218801G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5240MHz

02/11/2020



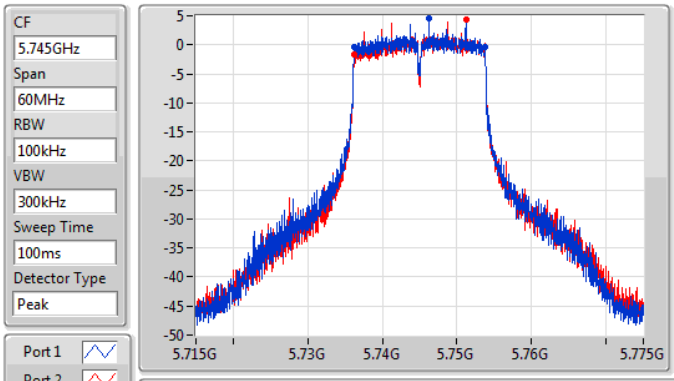


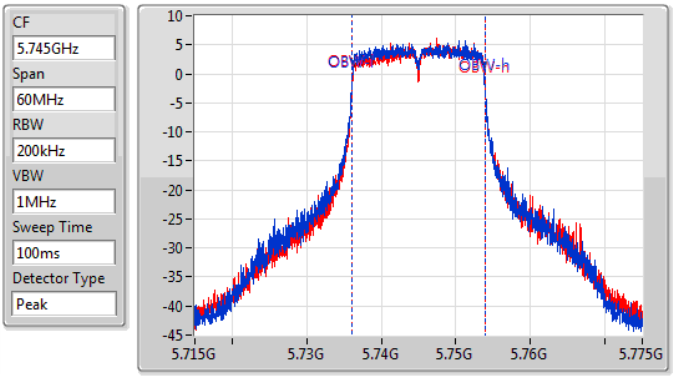
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30.81M	5.22557G	5.25638G	18.111M	5.230915G	5.249025G	Inf	1
36.57M	5.22086G	5.25743G	19.31M	5.230255G	5.249565G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5745MHz

02/11/2020



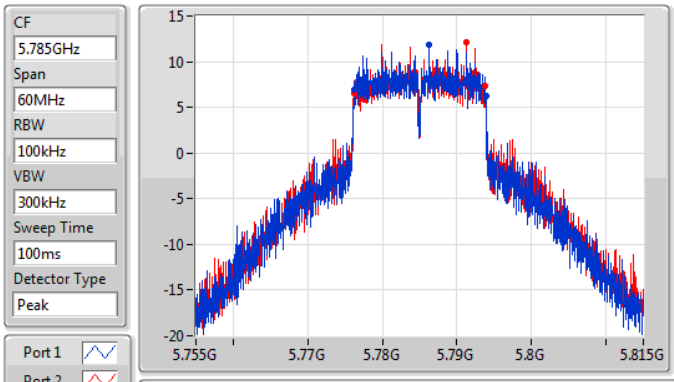


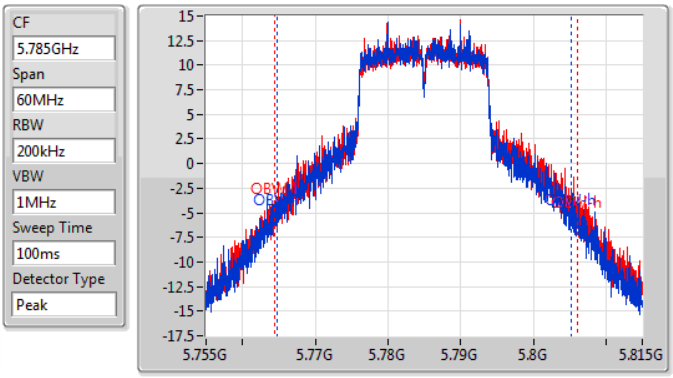
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.73621G	5.75376G	17.931M	5.736004G	5.753936G	500k	1
17.58M	5.73618G	5.75376G	17.871M	5.736094G	5.753966G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5785MHz

02/11/2020



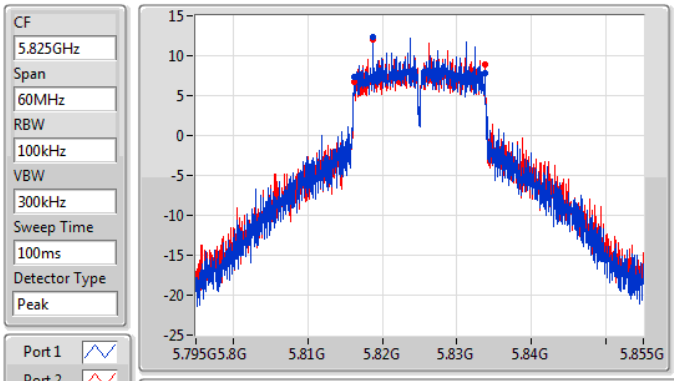


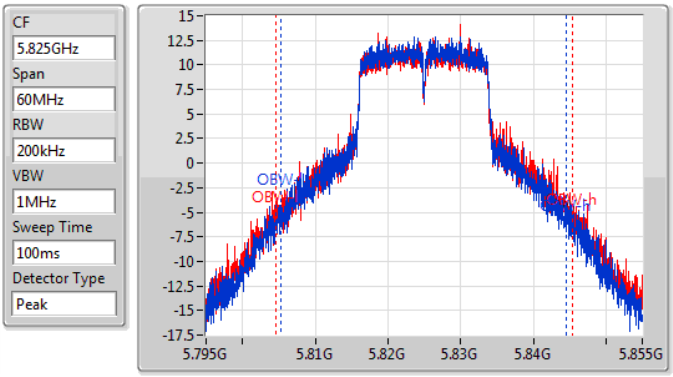
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.7M	5.77618G	5.79388G	40.48M	5.76473G	5.80521G	500k	1
17.58M	5.77618G	5.79376G	41.679M	5.76437G	5.806049G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5825MHz

02/11/2020



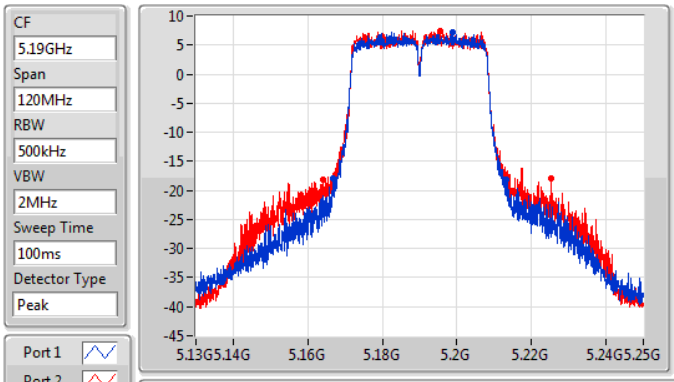


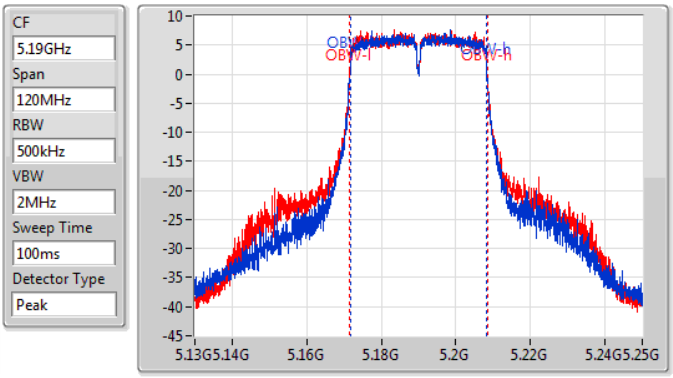
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.81621G	5.83376G	39.16M	5.80536G	5.84452G	500k	1
17.58M	5.81618G	5.83376G	40.72M	5.80467G	5.84539G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5190MHz

02/11/2020



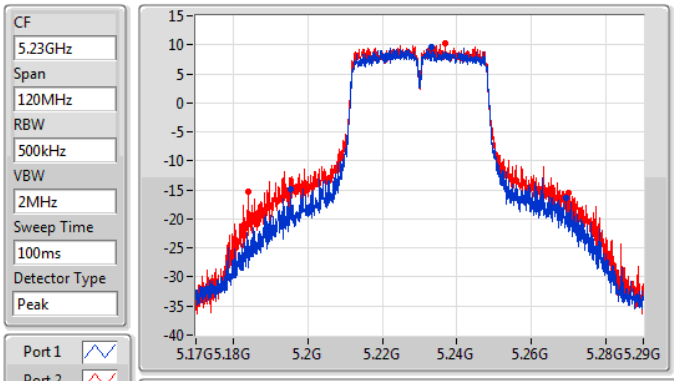


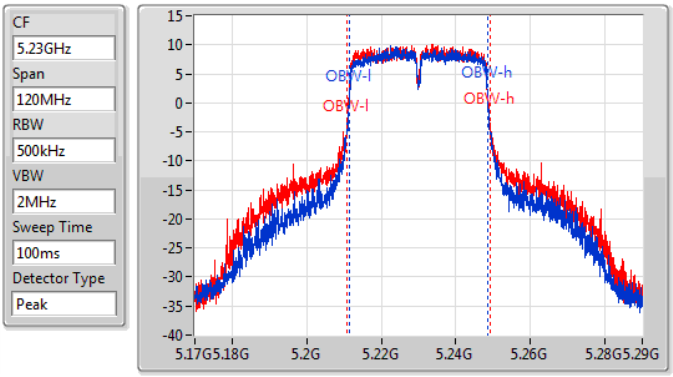
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
46.5M	5.16678G	5.21328G	36.702M	5.171649G	5.208351G	Inf	1
60.96M	5.16426G	5.22522G	36.942M	5.171469G	5.208411G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5230MHz

02/11/2020



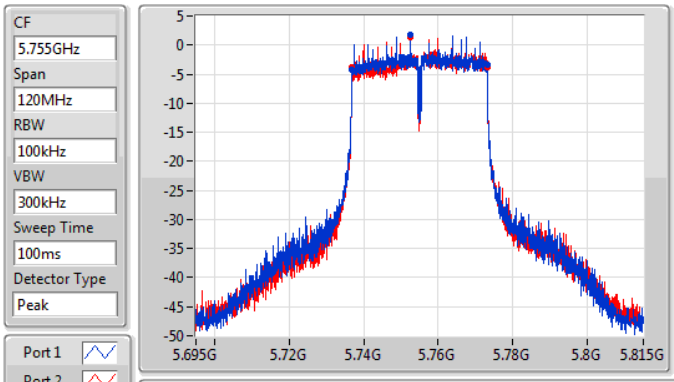


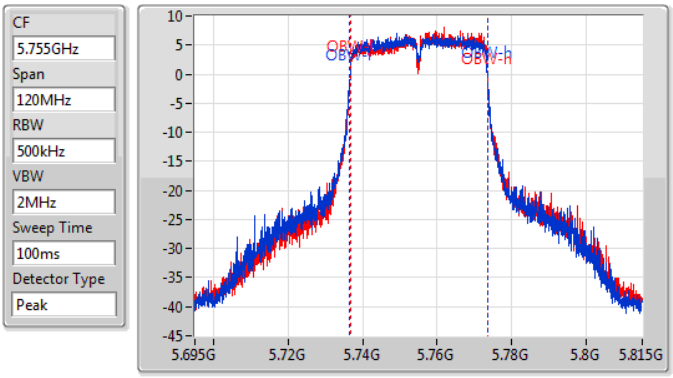
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
73.98M	5.19526G	5.26924G	37.121M	5.211469G	5.248591G	Inf	1
85.8M	5.18404G	5.26984G	38.501M	5.21063G	5.24913G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5755MHz

02/11/2020



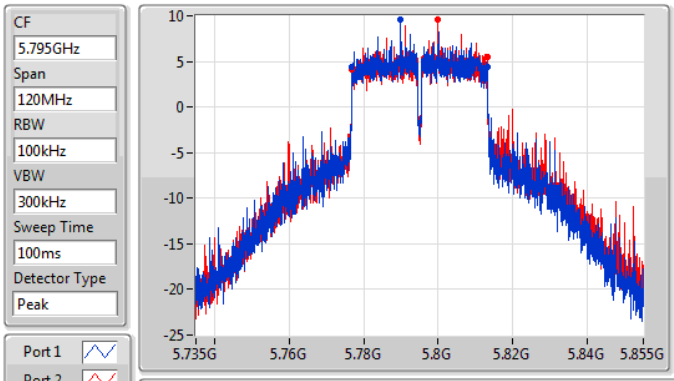


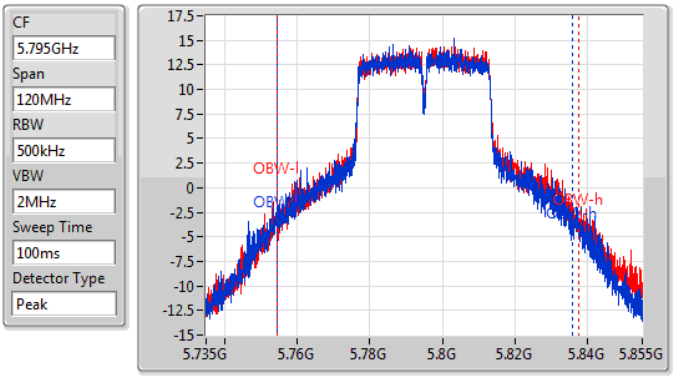
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.73682G	5.77312G	36.822M	5.736589G	5.773411G	500k	1
36.36M	5.73682G	5.77318G	36.762M	5.736709G	5.773471G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5795MHz

02/11/2020



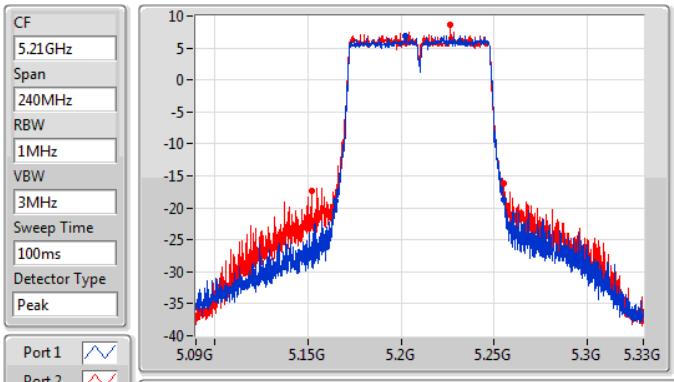


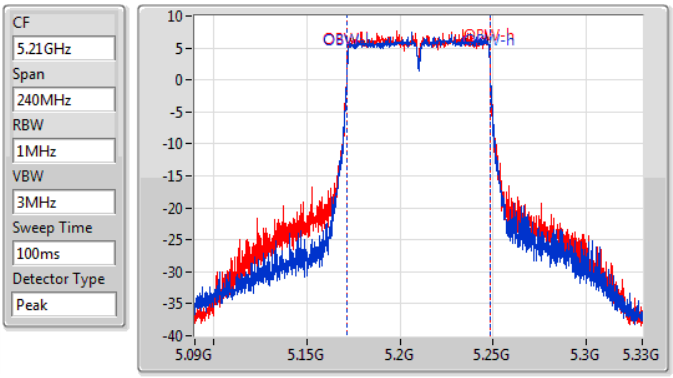
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.77682G	5.81312G	81.559M	5.7544G	5.83596G	500k	1
36.3M	5.77682G	5.81312G	82.999M	5.75464G	5.837639G	500k	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5210MHz

02/11/2020



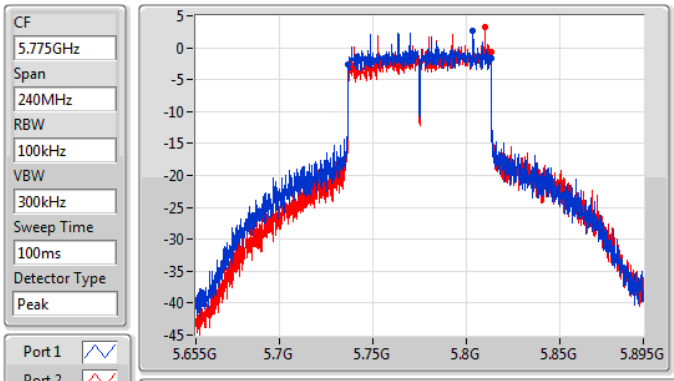


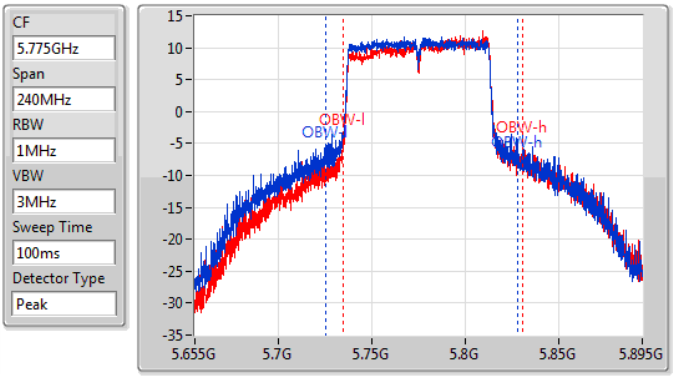
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
90.48M	5.16488G	5.25536G	76.402M	5.171859G	5.248261G	Inf	1
102.72M	5.15216G	5.25488G	76.762M	5.171619G	5.248381G	Inf	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5775MHz

02/11/2020





6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.32M	5.73684G	5.81316G	103.148M	5.725105G	5.828253G	500k	1
75.12M	5.73804G	5.81316G	96.312M	5.73482G	5.831132G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	25.72	0.37325
802.11ac VHT20_Nss1,(MCS0)_2TX	25.84	0.38371
802.11ac VHT40_Nss1,(MCS0)_2TX	22.00	0.15849
802.11ac VHT80_Nss1,(MCS0)_2TX	19.07	0.08072
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	26.21	0.41783
802.11ac VHT20_Nss1,(MCS0)_2TX	26.32	0.42855
802.11ac VHT40_Nss1,(MCS0)_2TX	26.35	0.43152
802.11ac VHT80_Nss1,(MCS0)_2TX	23.23	0.21038

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	3.50	18.89	18.96	21.94	30.00
5200MHz	Pass	3.50	22.93	22.48	25.72	30.00
5240MHz	Pass	3.50	18.82	19.12	21.98	30.00
5745MHz	Pass	3.50	16.97	16.60	19.80	30.00
5785MHz	Pass	3.50	23.23	23.17	26.21	30.00
5825MHz	Pass	3.50	23.16	22.87	26.03	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	3.50	20.32	20.24	23.29	30.00
5200MHz	Pass	3.50	23.04	22.60	25.84	30.00
5240MHz	Pass	3.50	18.84	19.21	22.04	30.00
5745MHz	Pass	3.50	17.08	16.67	19.89	30.00
5785MHz	Pass	3.50	23.32	23.29	26.32	30.00
5825MHz	Pass	3.50	23.14	22.97	26.07	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	3.50	16.31	16.71	19.52	30.00
5230MHz	Pass	3.50	18.87	19.10	22.00	30.00
5755MHz	Pass	3.50	16.41	16.14	19.29	30.00
5795MHz	Pass	3.50	23.35	23.32	26.35	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	3.50	16.00	16.11	19.07	30.00
5775MHz	Pass	3.50	20.50	19.92	23.23	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	12.31
802.11ac VHT20_Nss1,(MCS0)_2TX	12.49
802.11ac VHT40_Nss1,(MCS0)_2TX	5.85
802.11ac VHT80_Nss1,(MCS0)_2TX	-0.28
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	11.45
802.11ac VHT20_Nss1,(MCS0)_2TX	11.47
802.11ac VHT40_Nss1,(MCS0)_2TX	8.37
802.11ac VHT80_Nss1,(MCS0)_2TX	2.68

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

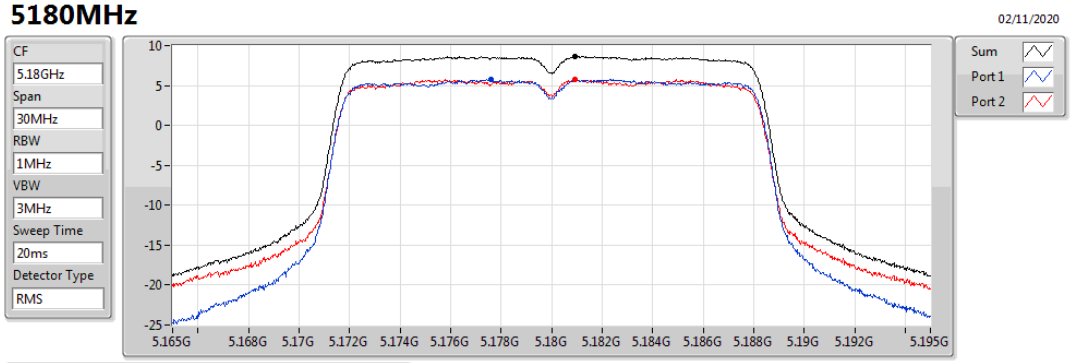
Result

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	6.31	5.77	5.82	8.68	16.69
5200MHz	Pass	6.31	9.65	9.09	12.31	16.69
5240MHz	Pass	6.31	5.78	5.91	8.83	16.69
5745MHz	Pass	6.31	2.28	2.27	5.21	29.69
5785MHz	Pass	6.31	8.52	8.56	11.45	29.69
5825MHz	Pass	6.31	8.41	8.08	11.16	29.69
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.31	7.51	7.63	10.54	16.69
5200MHz	Pass	6.31	9.78	9.36	12.49	16.69
5240MHz	Pass	6.31	5.95	6.16	9.04	16.69
5745MHz	Pass	6.31	2.50	2.31	5.35	29.69
5785MHz	Pass	6.31	8.74	8.74	11.47	29.69
5825MHz	Pass	6.31	8.54	8.24	11.32	29.69
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	6.31	0.43	0.57	3.45	16.69
5230MHz	Pass	6.31	2.90	3.02	5.85	16.69
5755MHz	Pass	6.31	-1.20	-1.13	1.77	29.69
5795MHz	Pass	6.31	5.44	5.51	8.37	29.69
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	6.31	-3.10	-2.98	-0.28	16.69
5775MHz	Pass	6.31	-0.31	-0.09	2.68	29.69

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

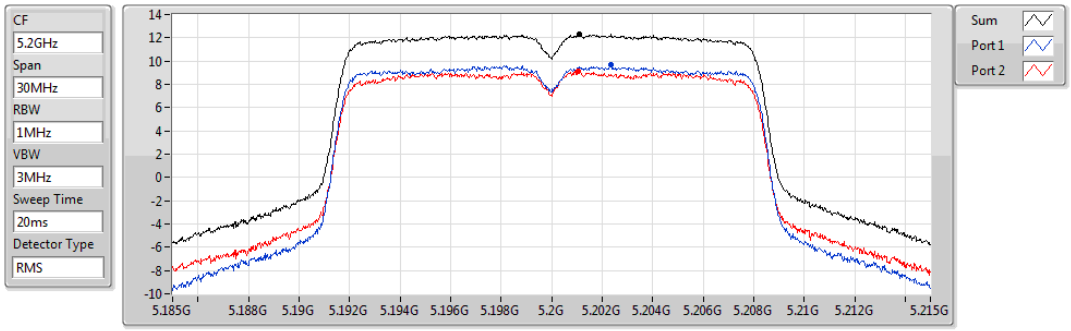
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.68	8.68	5.77	5.82

802.11a_Nss1,(6Mbps)_2TX PSD

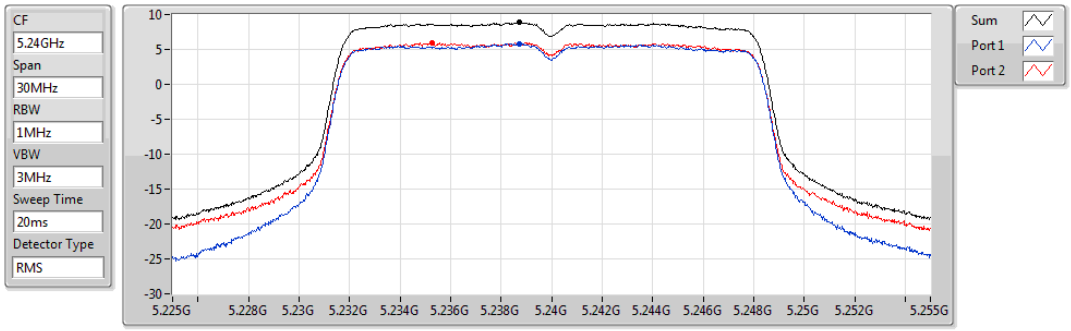
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.31	12.31	9.65	9.09

802.11a_Nss1,(6Mbps)_2TX PSD

5240MHz

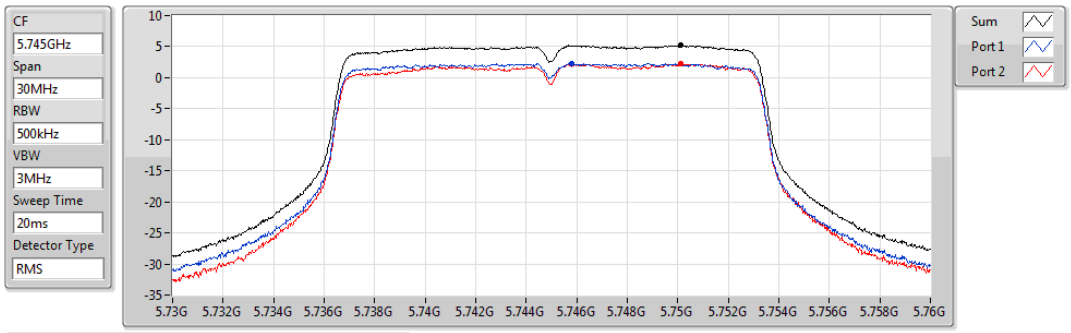


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.83	8.83	5.78	5.91

802.11a_Nss1,(6Mbps)_2TX PSD

5745MHz

02/11/2020

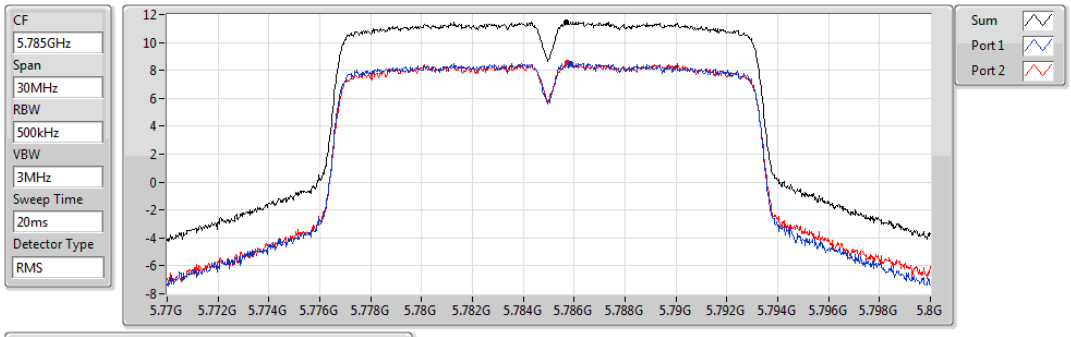


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.21	5.21	2.28	2.27

802.11a_Nss1,(6Mbps)_2TX PSD

5785MHz

02/11/2020

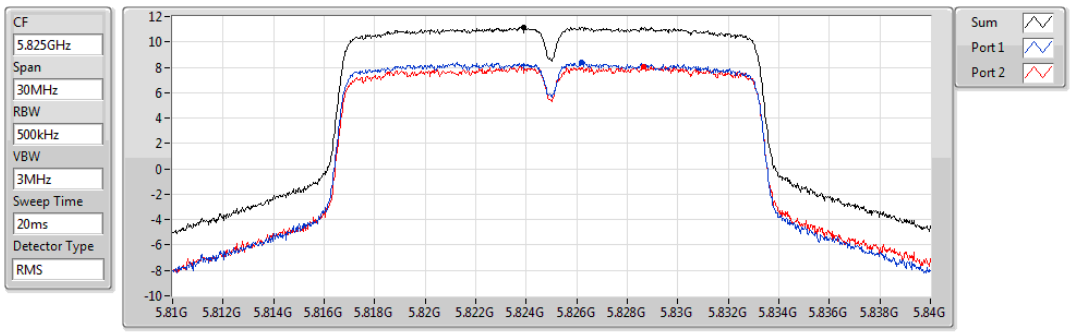


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.45	11.45	8.52	8.56

802.11a_Nss1,(6Mbps)_2TX PSD

5825MHz

02/11/2020

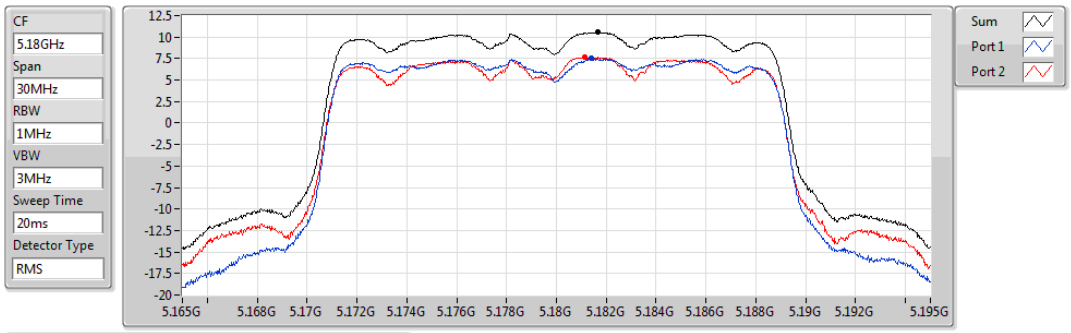


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.16	11.16	8.41	8.08

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

5180MHz

02/11/2020

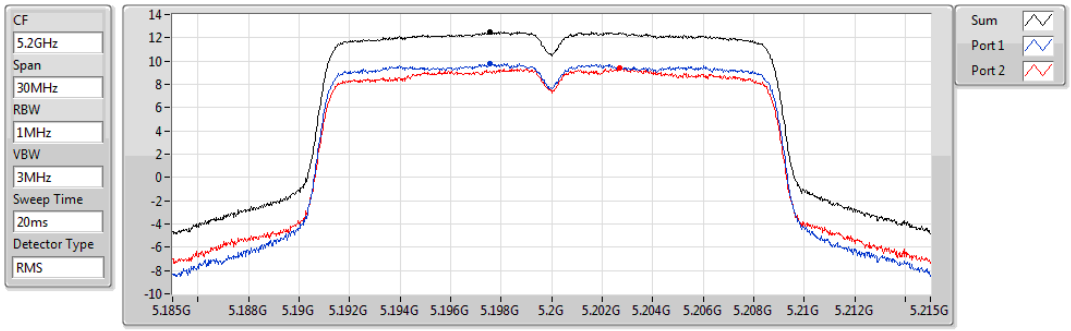


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.54	10.54	7.51	7.63

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

5200MHz

02/11/2020

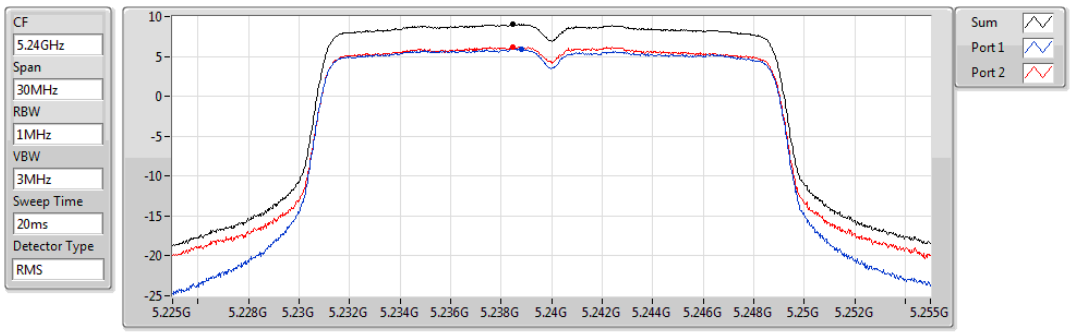


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.49	12.49	9.78	9.36

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

5240MHz

02/11/2020

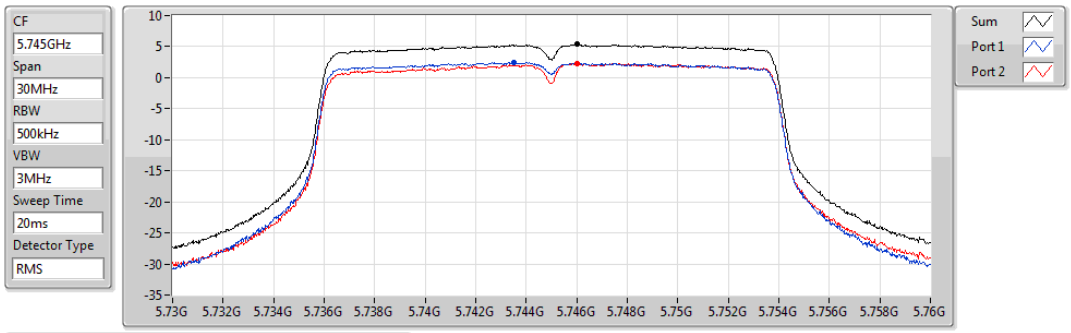


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.04	9.04	5.95	6.16

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

5745MHz

10/11/2020

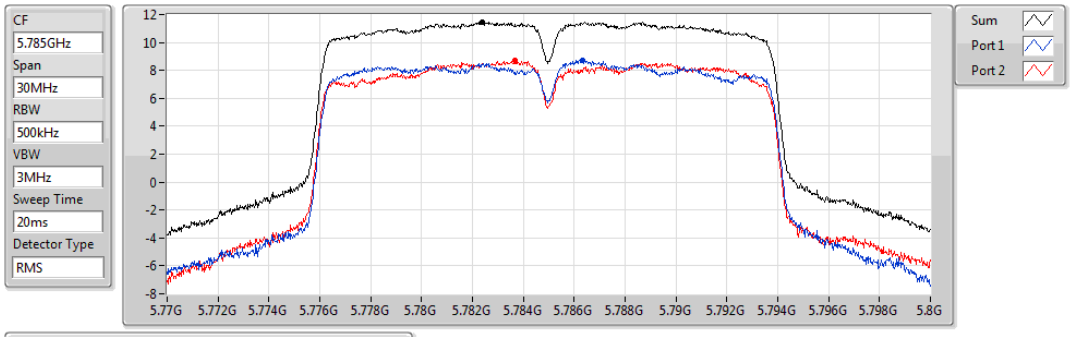


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.35	5.35	2.50	2.31

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

5785MHz

02/11/2020

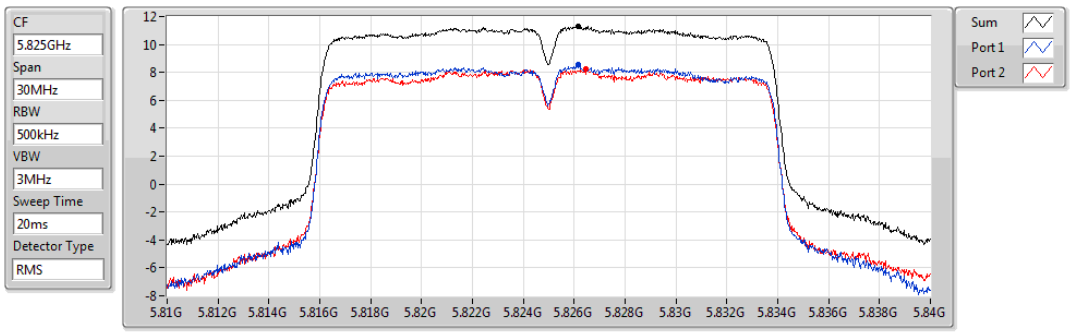


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.47	11.47	8.74	8.74

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

5825MHz

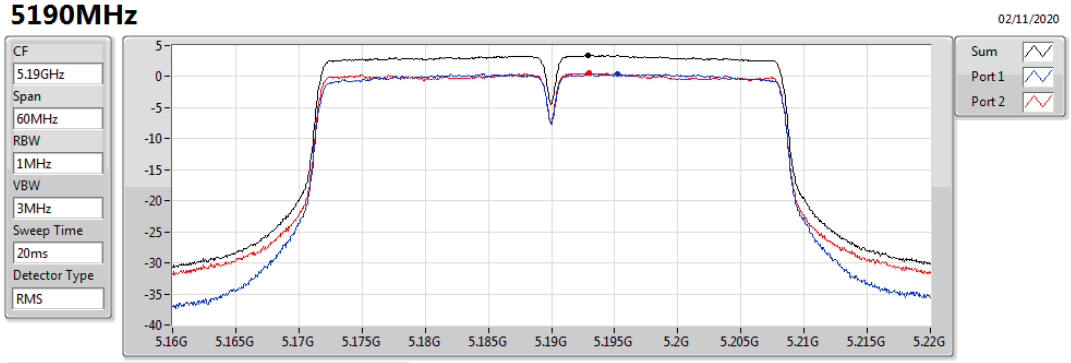
02/11/2020



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.32	11.32	8.54	8.24

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

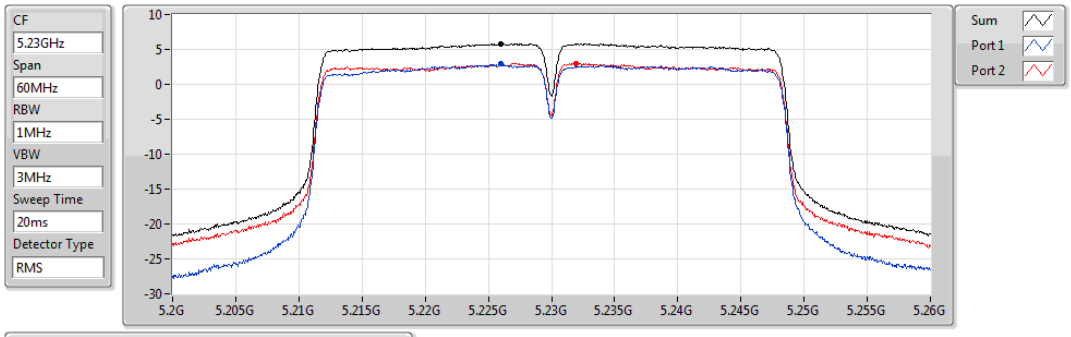
5190MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.45	3.45	0.43	0.57

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

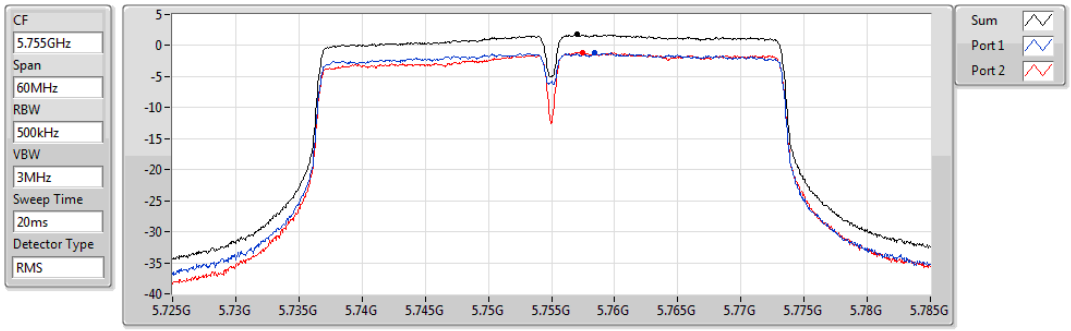
5230MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.85	5.85	2.90	3.02

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

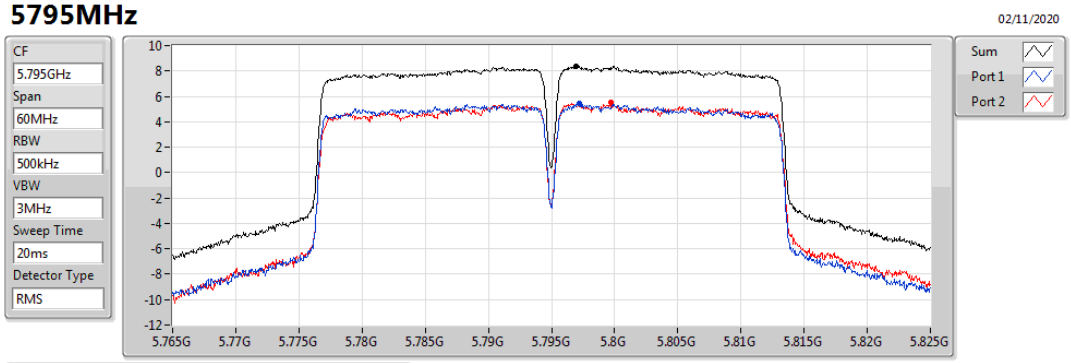
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.77	1.77	-1.20	-1.13

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

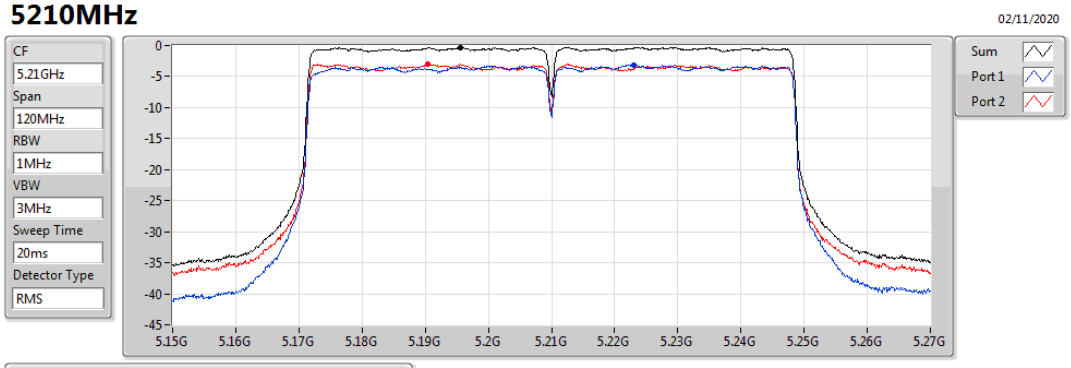
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.37	8.37	5.44	5.51

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

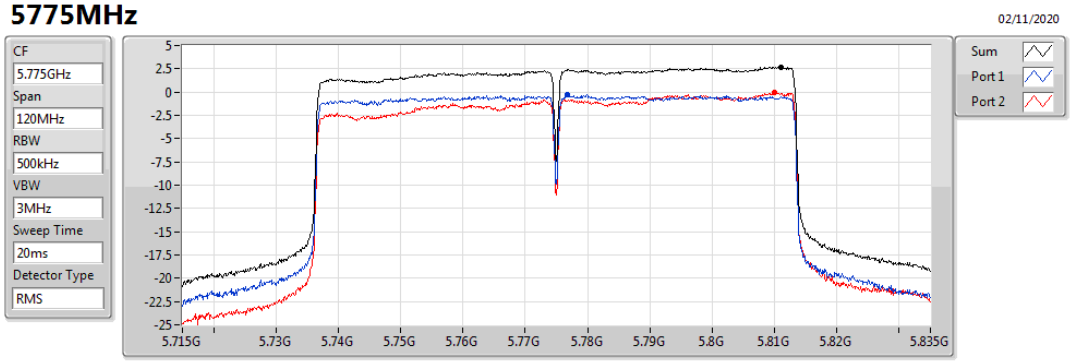
5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.28	-0.28	-3.10	-2.98

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

5775MHz



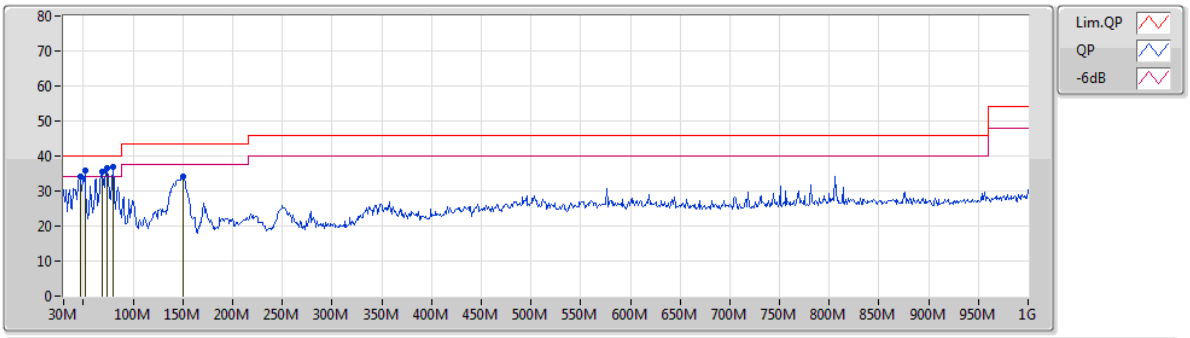
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.68	2.68	-0.31	-0.09

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	79.47M	36.91	40.00	-3.09	Vertical

Mode 1

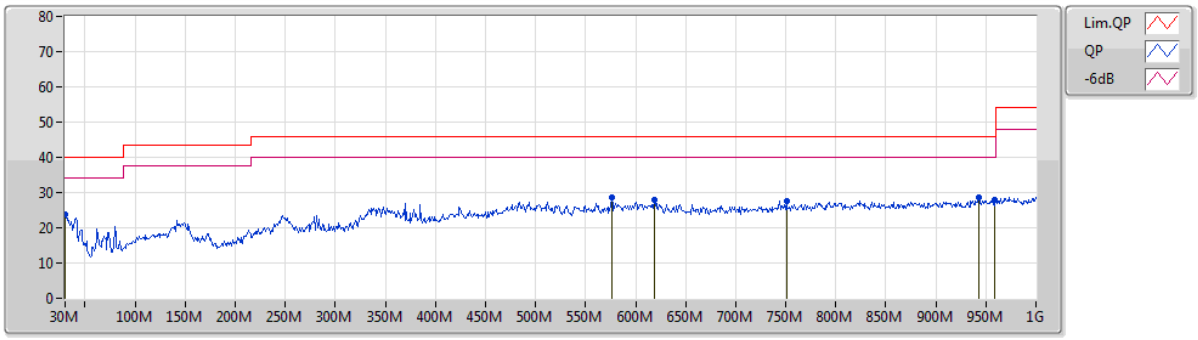
10/11/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	46.49M	34.11	40.00	-5.89	-16.36	3	Vertical	185	1.00	-	50.47	14.74	0.63	31.73
PK	51.34M	35.71	40.00	-4.29	-18.18	3	Vertical	221	1.00	-	53.89	12.89	0.70	31.77
PK	68.8M	35.39	40.00	-4.61	-19.60	3	Vertical	338	2.00	-	54.99	11.44	0.78	31.82
PK	73.65M	36.57	40.00	-3.43	-19.44	3	Vertical	125	1.00	-	56.01	11.62	0.80	31.86
PK	79.47M	36.91	40.00	-3.09	-18.88	3	Vertical	147	1.25	"Worst"	55.79	12.20	0.80	31.88
PK	150.28M	34.30	43.50	-9.20	-15.21	3	Vertical	175	1.25	-	49.51	15.59	1.10	31.90

Mode 1

10/11/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30M	23.94	40.00	-16.06	-7.66	3	Horizontal	191	1.00	"Worst"	31.60	23.22	0.50	31.38
PK	576.11M	28.47	46.00	-17.53	-6.32	3	Horizontal	169	1.00	-	34.79	23.92	2.10	32.34
PK	618.79M	27.76	46.00	-18.24	-6.10	3	Horizontal	231	1.00	-	33.86	24.13	2.20	32.43
PK	750.71M	27.60	46.00	-18.40	-5.34	3	Horizontal	129	1.00	-	32.94	24.82	2.40	32.56
PK	942.77M	28.45	46.00	-17.55	-3.97	3	Horizontal	306	1.00	-	32.42	25.79	2.69	32.45
PK	959.26M	27.91	46.00	-18.09	-3.66	3	Horizontal	28	1.00	-	31.57	26.10	2.70	32.46

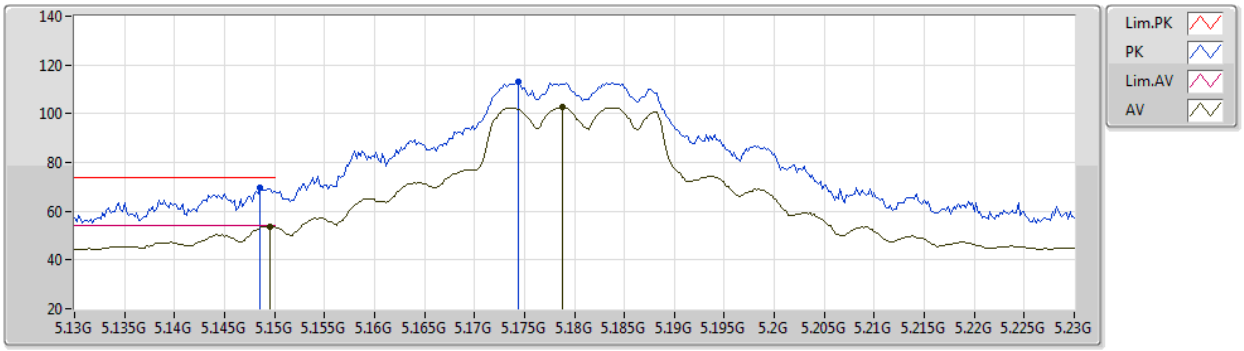
Summary

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 VHT40_Nss1,(MCS0)_2TX	Pass	AV	5.148G	53.89	54.00	-0.11	3	Vertical	31	2.52	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

29/10/2020



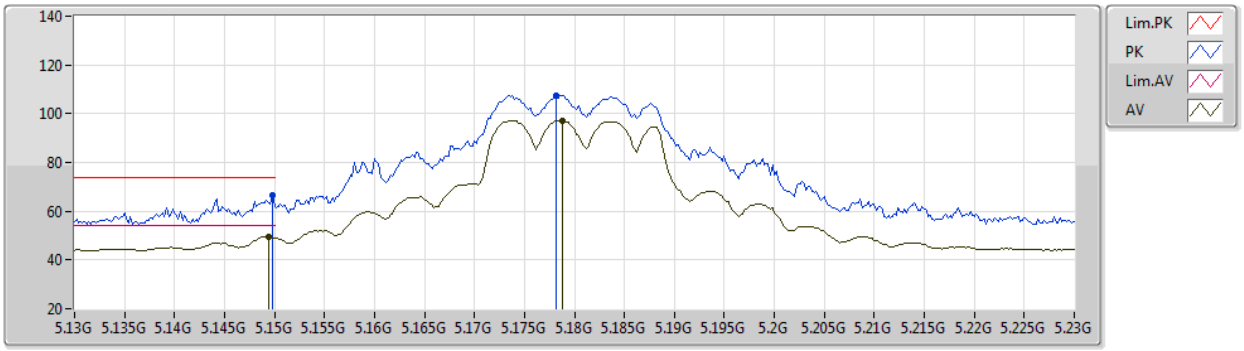
EUT Z_2TX
Setting 18.5
01-A-J-7-10

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	69.62	74.00	-4.38	66.38	3	Vertical	75	2.62	-	32.70	5.17	34.63
AV	5.1496G	53.72	54.00	-0.28	50.48	3	Vertical	75	2.62	-	32.70	5.17	34.63
PK	5.1744G	113.18	Inf	-Inf	109.88	3	Vertical	75	2.62	-	32.75	5.19	34.64
AV	5.1788G	102.76	Inf	-Inf	99.45	3	Vertical	75	2.62	-	32.76	5.19	34.64

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

29/10/2020



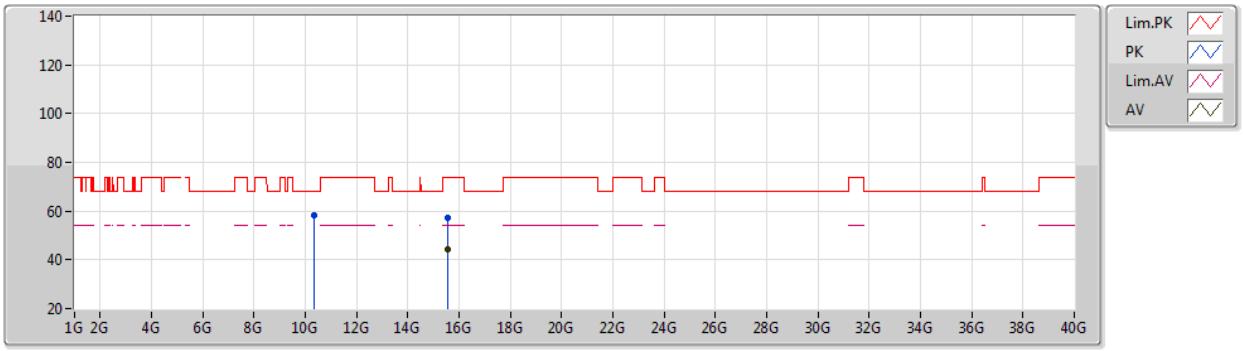
EUT Z_2TX
Setting 18.5
01-A-J-7-10

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	66.43	74.00	-7.57	63.19	3	Horizontal	201	2.54	-	32.70	5.17	34.63
AV	5.1494G	49.52	54.00	-4.48	46.28	3	Horizontal	201	2.54	-	32.70	5.17	34.63
PK	5.1782G	107.49	Inf	-Inf	104.18	3	Horizontal	201	2.54	-	32.76	5.19	34.64
AV	5.1788G	97.24	Inf	-Inf	93.93	3	Horizontal	201	2.54	-	32.76	5.19	34.64

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

29/10/2020



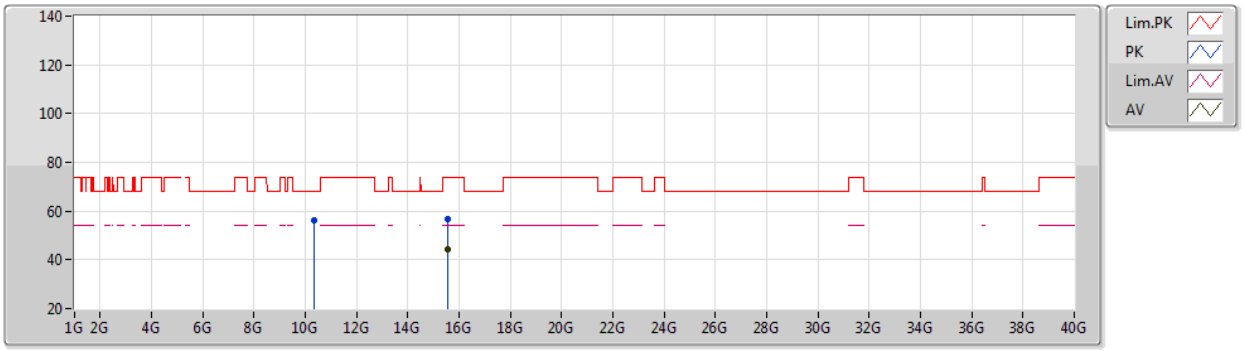
EUT Z_2TX
Setting 18.5
01-A-J-7

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	10.3599G	58.30	68.20	-9.90	47.99	3	Vertical	28	2.57	-	38.26	7.43	35.38
PK	15.54114G	57.35	74.00	-16.65	44.90	3	Vertical	15	1.68	-	38.06	9.21	34.82
AV	15.54376G	44.35	54.00	-9.65	31.90	3	Vertical	15	1.68	-	38.06	9.21	34.82

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

29/10/2020



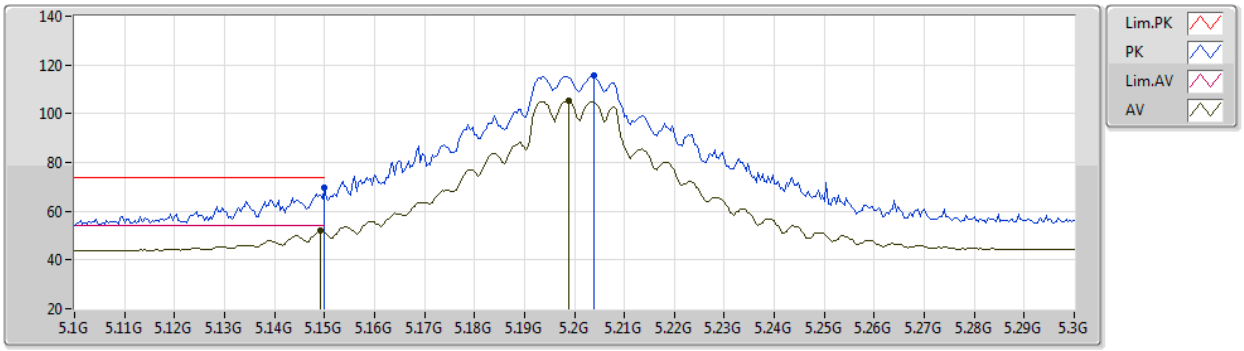
EUT Z_2TX
Setting 18.5
01-A-J-7

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	10.36005G	56.11	68.20	-12.09	45.80	3	Horizontal	293	2.34	-	38.26	7.43	35.38
PK	15.54014G	56.80	74.00	-17.20	44.35	3	Horizontal	129	1.93	-	38.06	9.21	34.82
AV	15.54092G	44.17	54.00	-9.83	31.72	3	Horizontal	129	1.93	-	38.06	9.21	34.82

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

29/10/2020



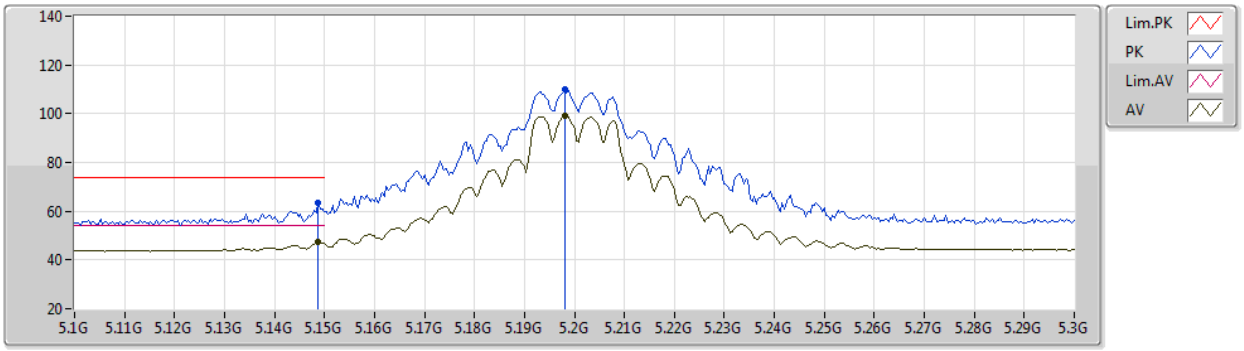
EUT Z_2TX
Setting 23
01-A-J-7-10

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	69.75	74.00	-4.25	66.51	3	Vertical	77	2.63	-	32.70	5.17	34.63
AV	5.1492G	52.20	54.00	-1.80	48.96	3	Vertical	77	2.63	-	32.70	5.17	34.63
PK	5.204G	115.93	Inf	-Inf	112.57	3	Vertical	77	2.63	-	32.81	5.20	34.65
AV	5.1988G	105.23	Inf	-Inf	101.88	3	Vertical	77	2.63	-	32.80	5.20	34.65

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

29/10/2020



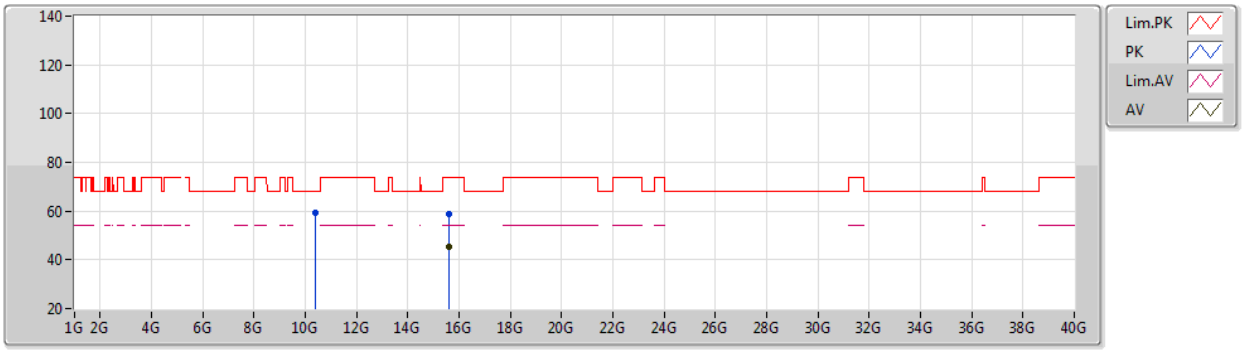
EUT Z_2TX
Setting 23
01-A-J-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1488G	63.48	74.00	-10.52	60.24	3	Horizontal	198	2.52	-	32.70	5.17	34.63
AV	5.1488G	47.38	54.00	-6.62	44.14	3	Horizontal	198	2.52	-	32.70	5.17	34.63
PK	5.198G	109.75	Inf	-Inf	106.40	3	Horizontal	198	2.52	-	32.80	5.20	34.65
AV	5.198G	98.96	Inf	-Inf	95.61	3	Horizontal	198	2.52	-	32.80	5.20	34.65

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

29/10/2020



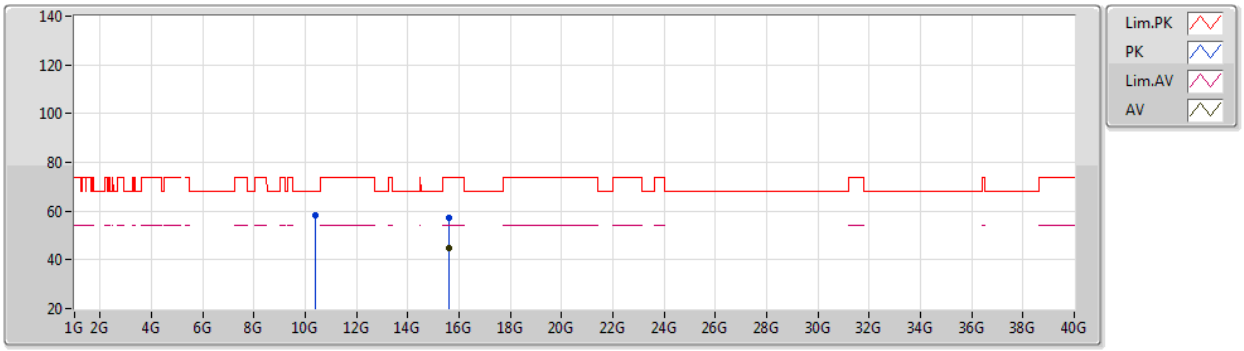
EUT Z_2TX
Setting 23
01-A-J-7

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	10.39993G	59.39	68.20	-8.81	49.00	3	Vertical	347	2.60	-	38.30	7.44	35.35
PK	15.60282G	58.87	74.00	-15.13	46.52	3	Vertical	302	3.00	-	38.01	9.22	34.88
AV	15.59766G	45.25	54.00	-8.75	32.91	3	Vertical	302	3.00	-	38.00	9.22	34.88

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

29/10/2020



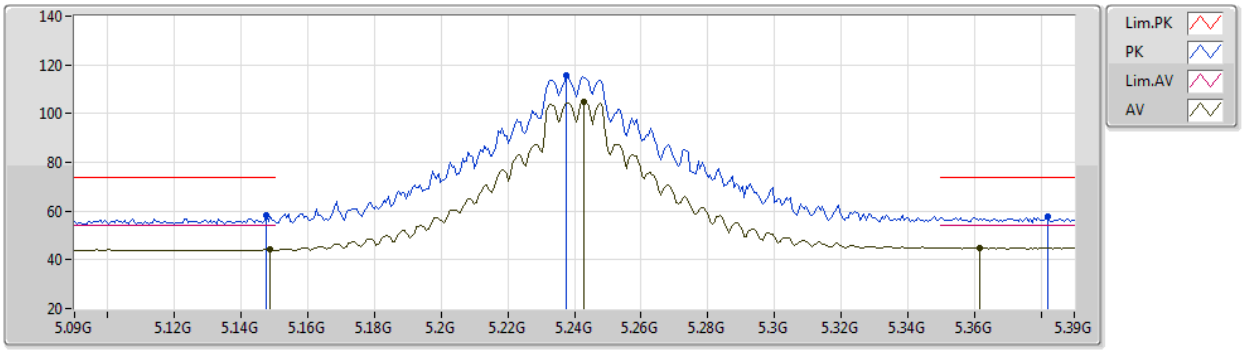
EUT Z_2TX
Setting 23
01-A-J-7

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	10.39968G	58.16	68.20	-10.04	47.77	3	Horizontal	298	2.33	-	38.30	7.44	35.35
PK	15.60732G	57.20	74.00	-16.80	44.86	3	Horizontal	173	2.94	-	38.01	9.22	34.89
AV	15.58812G	44.71	54.00	-9.29	32.35	3	Horizontal	173	2.94	-	38.01	9.22	34.87

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

29/10/2020



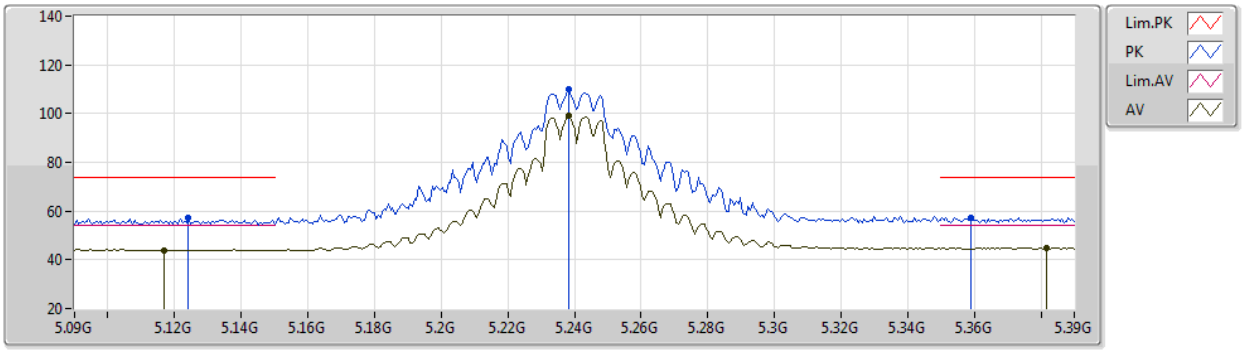
EUT Z_2TX
Setting 23
01-A-J-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1476G	58.09	74.00	-15.91	54.85	3	Vertical	262	2.46	-	32.70	5.17	34.63
AV	5.1488G	44.18	54.00	-9.82	40.94	3	Vertical	262	2.46	-	32.70	5.17	34.63
PK	5.2376G	115.57	Inf	-Inf	112.12	3	Vertical	262	2.46	-	32.88	5.24	34.67
AV	5.243G	104.82	Inf	-Inf	101.36	3	Vertical	262	2.46	-	32.89	5.24	34.67
PK	5.3822G	57.67	74.00	-16.33	53.85	3	Vertical	262	2.46	-	33.16	5.38	34.72
AV	5.3618G	44.97	54.00	-9.03	41.20	3	Vertical	262	2.46	-	33.12	5.36	34.71

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

29/10/2020



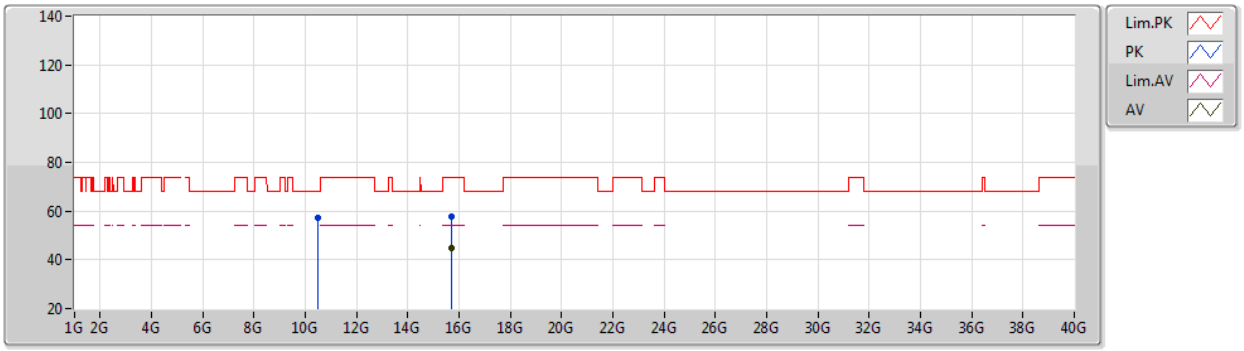
EUT Z_2TX
Setting 23
01-A-J-7-10

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	5.1242G	57.06	74.00	-16.94	53.77	3	Horizontal	198	2.51	-	32.75	5.16	34.62
AV	5.117G	44.05	54.00	-9.95	40.74	3	Horizontal	198	2.51	-	32.77	5.16	34.62
PK	5.2382G	110.10	Inf	-Inf	106.65	3	Horizontal	198	2.51	-	32.88	5.24	34.67
AV	5.2382G	98.98	Inf	-Inf	95.53	3	Horizontal	198	2.51	-	32.88	5.24	34.67
PK	5.3588G	57.37	74.00	-16.63	53.60	3	Horizontal	198	2.51	-	33.12	5.36	34.71
AV	5.3816G	45.07	54.00	-8.93	41.25	3	Horizontal	198	2.51	-	33.16	5.38	34.72

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

29/10/2020



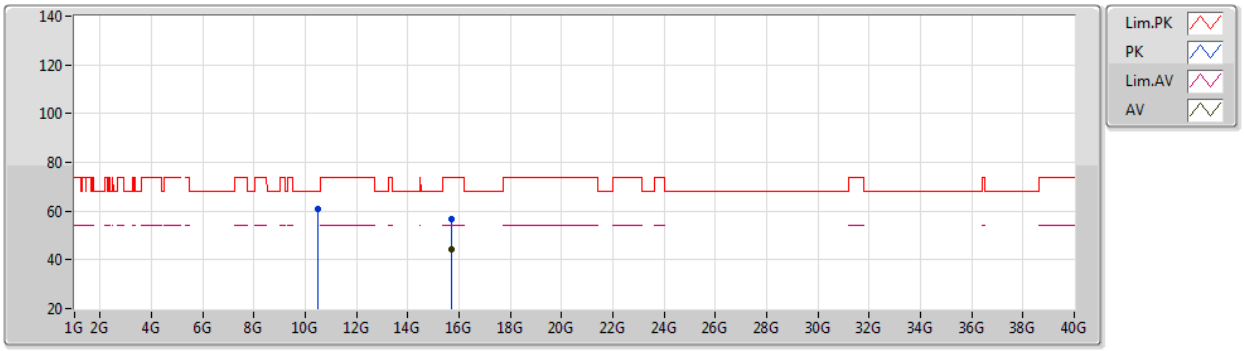
EUT Z_2TX
Setting 23
01-A-J-7

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	10.48004G	57.47	68.20	-10.73	46.83	3	Vertical	294	2.21	-	38.46	7.47	35.29
PK	15.7199G	57.60	74.00	-16.40	45.12	3	Vertical	221	2.56	-	38.24	9.24	35.00
AV	15.71984G	44.57	54.00	-9.43	32.09	3	Vertical	221	2.56	-	38.24	9.24	35.00

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

29/10/2020



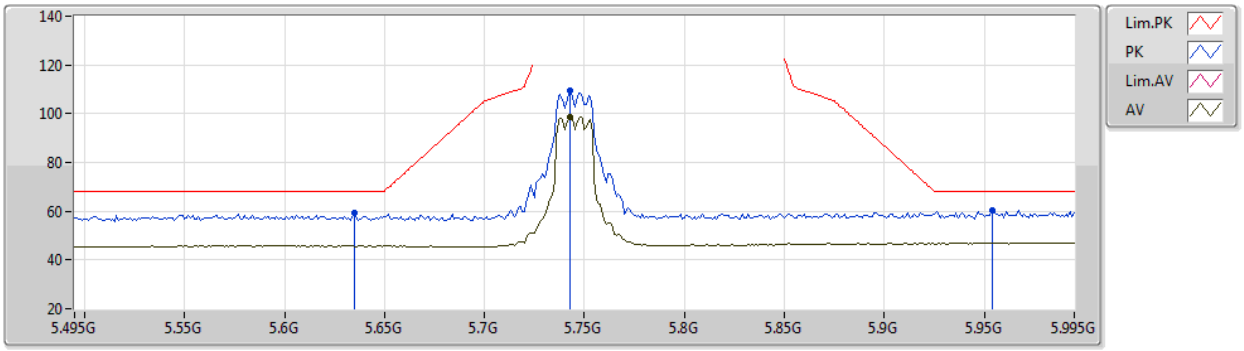
EUT Z_2TX
Setting 23
01-A-J-7

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	10.48008G	60.75	68.20	-7.45	50.11	3	Horizontal	322	2.33	-	38.46	7.47	35.29
PK	15.70432G	56.94	74.00	-17.06	44.48	3	Horizontal	29	1.44	-	38.21	9.24	34.99
AV	15.71064G	44.43	54.00	-9.57	31.96	3	Horizontal	29	1.44	-	38.22	9.24	34.99

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

29/10/2020



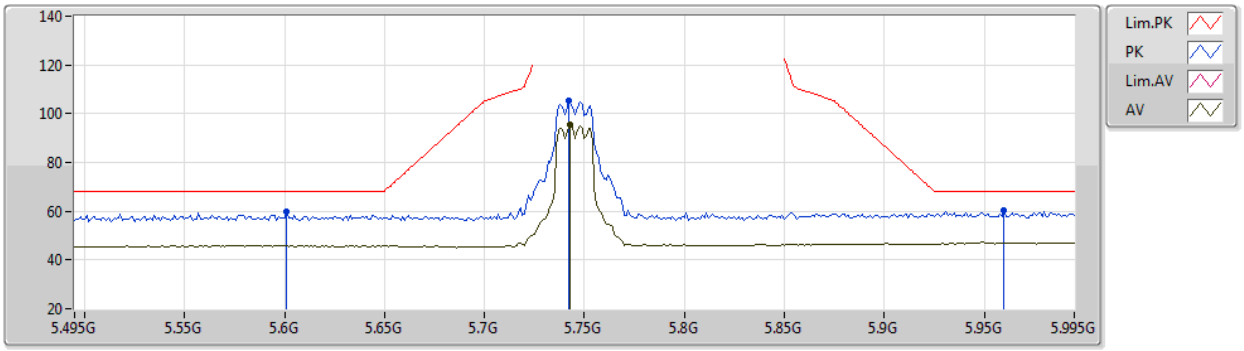
EUT Z_2TX
Setting 15.5
01-A-J-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.635G	59.08	68.20	-9.12	54.23	3	Vertical	120	2.45	-	34.14	5.42	34.71
PK	5.743G	109.49	Inf	-Inf	104.43	3	Vertical	120	2.45	-	34.26	5.47	34.67
AV	5.743G	98.85	Inf	-Inf	93.79	3	Vertical	120	2.45	-	34.26	5.47	34.67
PK	5.954G	60.22	68.20	-7.98	54.10	3	Vertical	120	2.45	-	35.21	5.50	34.59

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

29/10/2020



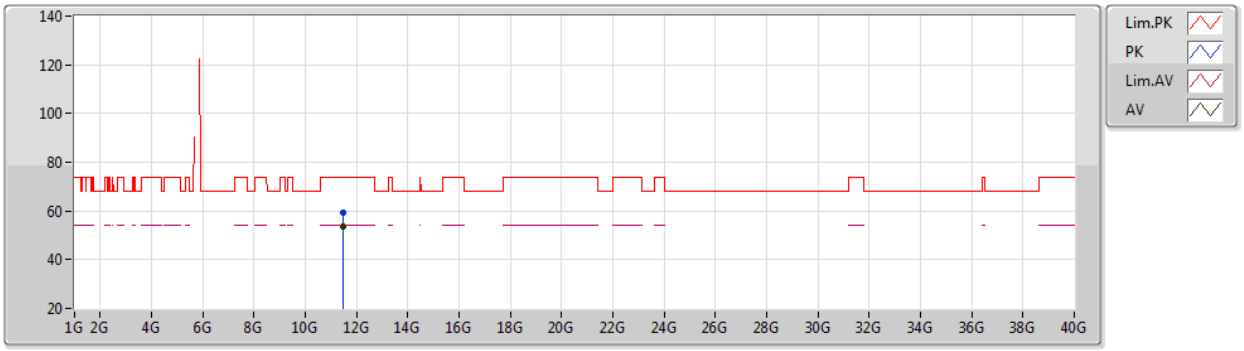
EUT Z_2TX
Setting 15.5
01-A-J-7-10

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	5.601G	59.75	68.20	-8.45	55.07	3	Horizontal	239	2.85	-	34.00	5.40	34.72
PK	5.742G	105.21	Inf	-Inf	100.16	3	Horizontal	239	2.85	-	34.25	5.47	34.67
AV	5.743G	95.30	Inf	-Inf	90.24	3	Horizontal	239	2.85	-	34.26	5.47	34.67
PK	5.96G	60.16	68.20	-8.04	54.03	3	Horizontal	239	2.85	-	35.22	5.50	34.59

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

29/10/2020



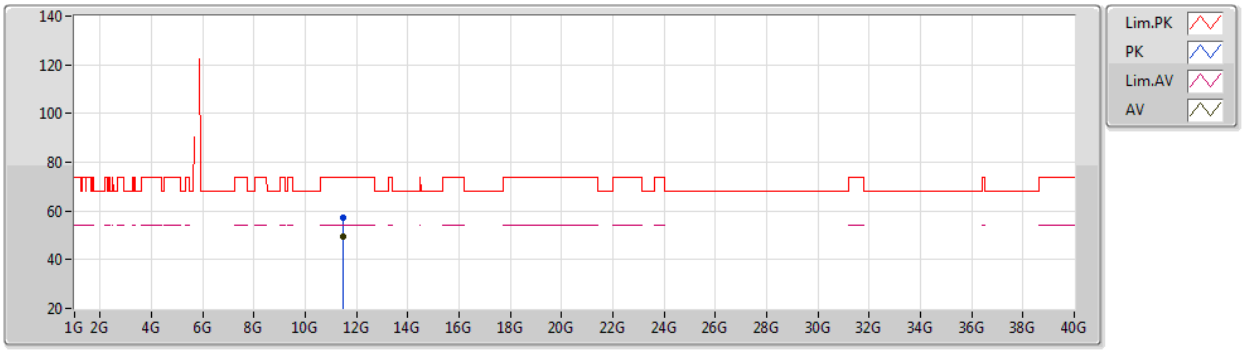
EUT Z_2TX
Setting 15.5
01-A-J-7

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	11.48994G	59.15	74.00	-14.85	47.75	3	Vertical	4	2.44	-	38.41	7.82	34.83
AV	11.48993G	53.86	54.00	-0.14	42.46	3	Vertical	4	2.44	-	38.41	7.82	34.83

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

29/10/2020



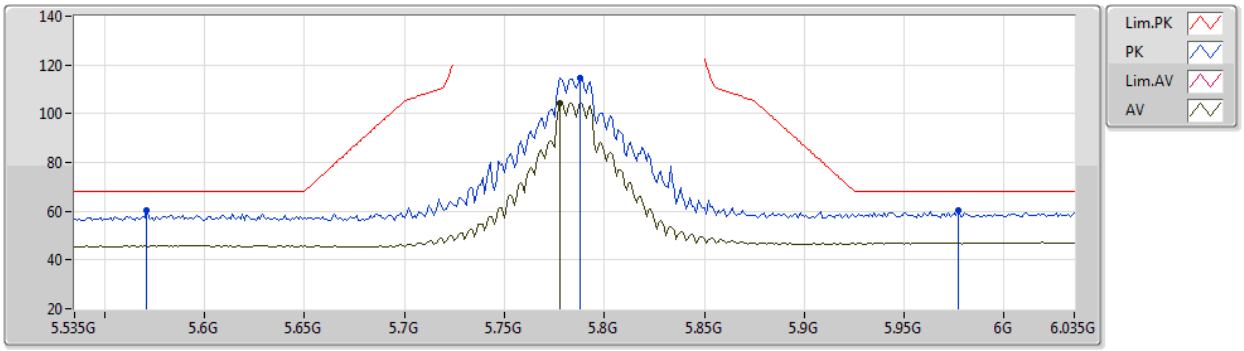
EUT Z_2TX
Setting 15.5
01-A-J-7

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	11.48994G	57.17	74.00	-16.83	45.77	3	Horizontal	330	2.30	-	38.41	7.82	34.83
AV	11.4899G	49.70	54.00	-4.30	38.30	3	Horizontal	330	2.30	-	38.41	7.82	34.83

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

29/10/2020



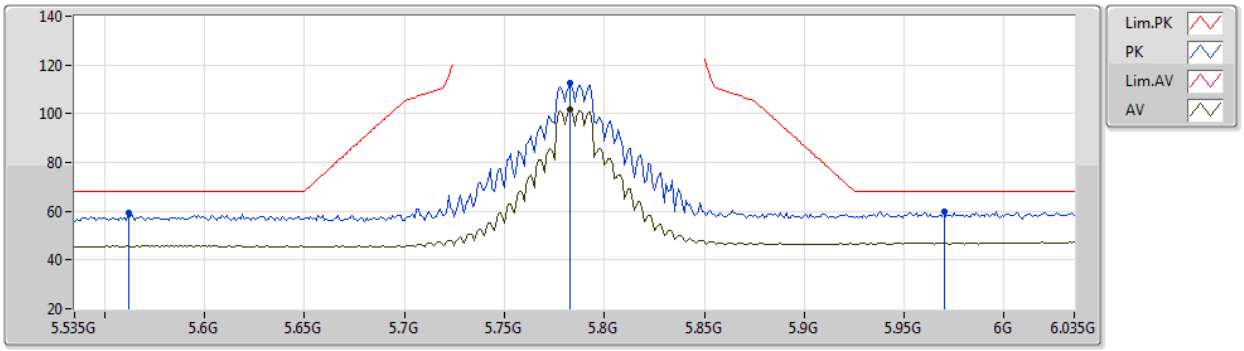
EUT Z_2TX
Setting 23
01-A-J-7-10

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	5.571G	60.15	68.20	-8.05	55.54	3	Vertical	118	2.38	-	33.94	5.40	34.73
PK	5.788G	114.69	Inf	-Inf	109.55	3	Vertical	118	2.38	-	34.30	5.49	34.65
AV	5.778G	104.24	Inf	-Inf	99.10	3	Vertical	118	2.38	-	34.30	5.49	34.65
PK	5.977G	60.43	68.20	-7.77	54.26	3	Vertical	118	2.38	-	35.25	5.50	34.58

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

29/10/2020



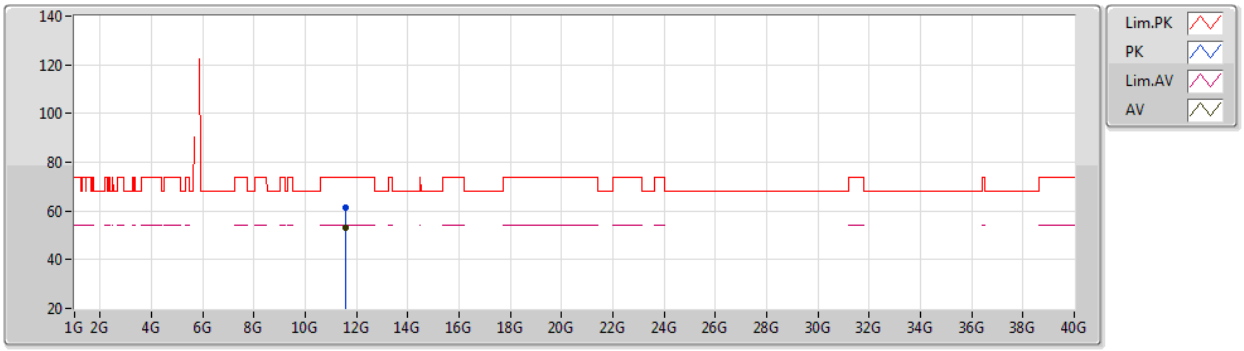
EUT Z_2TX
Setting 23
01-A-J-7-10

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	5.562G	59.07	68.20	-9.13	54.49	3	Horizontal	237	2.66	-	33.92	5.40	34.74
PK	5.783G	112.84	Inf	-Inf	107.70	3	Horizontal	237	2.66	-	34.30	5.49	34.65
AV	5.783G	101.77	Inf	-Inf	96.63	3	Horizontal	237	2.66	-	34.30	5.49	34.65
PK	5.97G	59.70	68.20	-8.50	53.54	3	Horizontal	237	2.66	-	35.24	5.50	34.58

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

29/10/2020



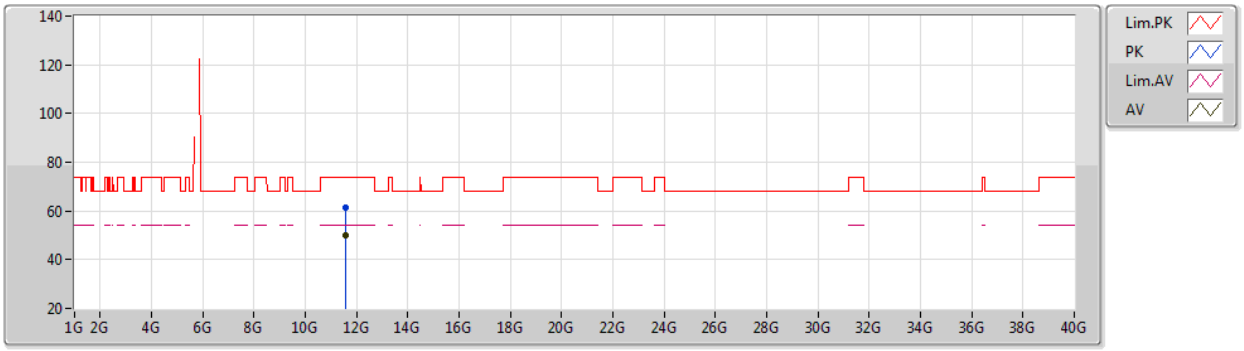
EUT Z_2TX
Setting 23
01-A-J-7

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	11.5699G	61.19	74.00	-12.81	49.73	3	Vertical	342	2.23	-	38.47	7.85	34.86
AV	11.56998G	52.93	54.00	-1.07	41.47	3	Vertical	342	2.23	-	38.47	7.85	34.86

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

29/10/2020



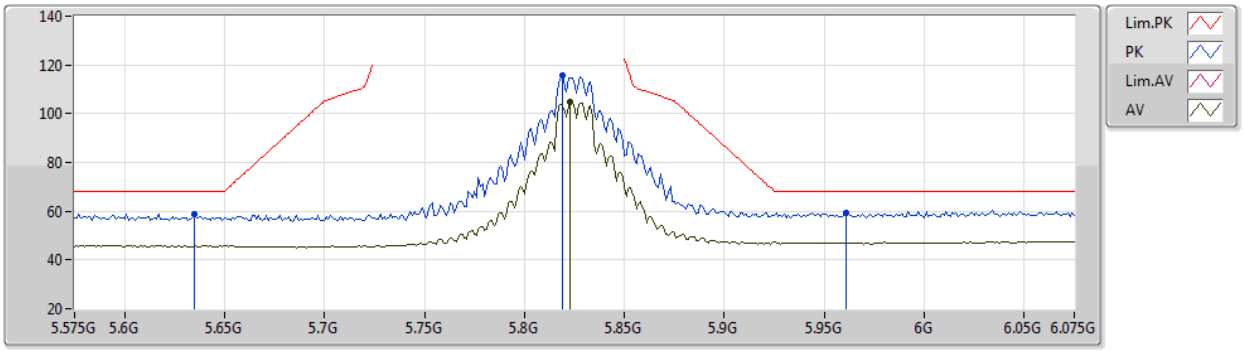
EUT Z_2TX
Setting 23
01-A-J-7

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	11.57304G	61.35	74.00	-12.65	49.89	3	Horizontal	328	2.26	-	38.47	7.85	34.86
AV	11.56992G	49.80	54.00	-4.20	38.34	3	Horizontal	328	2.26	-	38.47	7.85	34.86

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

29/10/2020



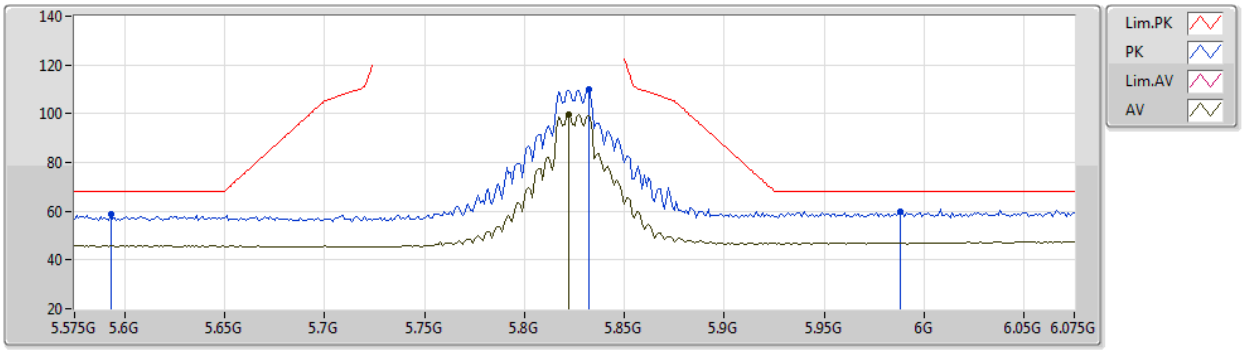
EUT Z_2TX
Setting 23
01-A-J-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.635G	58.71	68.20	-9.49	53.86	3	Vertical	116	2.41	-	34.14	5.42	34.71
PK	5.819G	115.74	Inf	-Inf	110.43	3	Vertical	116	2.41	-	34.45	5.50	34.64
AV	5.823G	104.96	Inf	-Inf	99.62	3	Vertical	116	2.41	-	34.48	5.50	34.64
PK	5.961G	59.36	68.20	-8.84	53.22	3	Vertical	116	2.41	-	35.22	5.50	34.58

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

29/10/2020



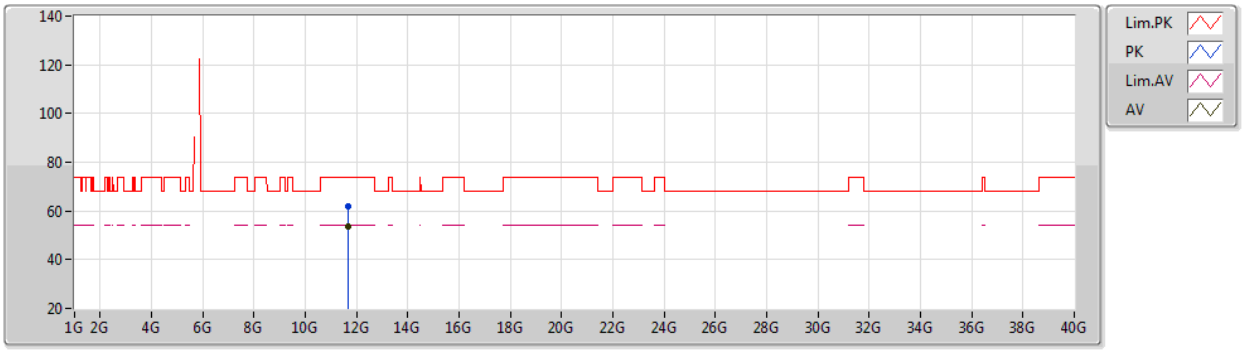
EUT Z_2TX
Setting 23
01-A-J-7-10

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	5.593G	58.73	68.20	-9.47	54.06	3	Horizontal	71	2.64	-	33.99	5.40	34.72
PK	5.832G	110.20	Inf	-Inf	104.77	3	Horizontal	71	2.64	-	34.56	5.50	34.63
AV	5.822G	99.55	Inf	-Inf	94.21	3	Horizontal	71	2.64	-	34.48	5.50	34.64
PK	5.988G	59.95	68.20	-8.25	53.74	3	Horizontal	71	2.64	-	35.28	5.50	34.57

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

29/10/2020



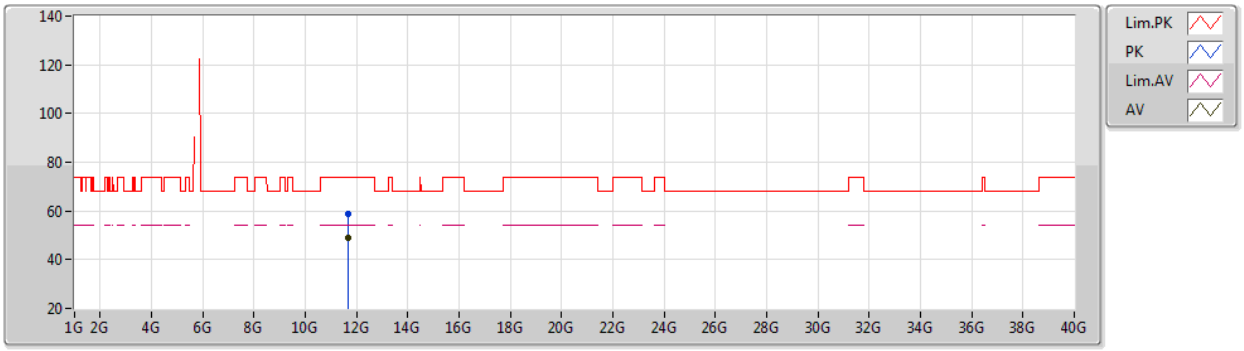
EUT Z_2TX
Setting 23
01-A-J-7

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	11.65004G	62.00	74.00	-12.00	50.50	3	Vertical	345	2.24	-	38.50	7.88	34.88
AV	11.64993G	53.86	54.00	-0.14	42.36	3	Vertical	345	2.24	-	38.50	7.88	34.88

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

29/10/2020



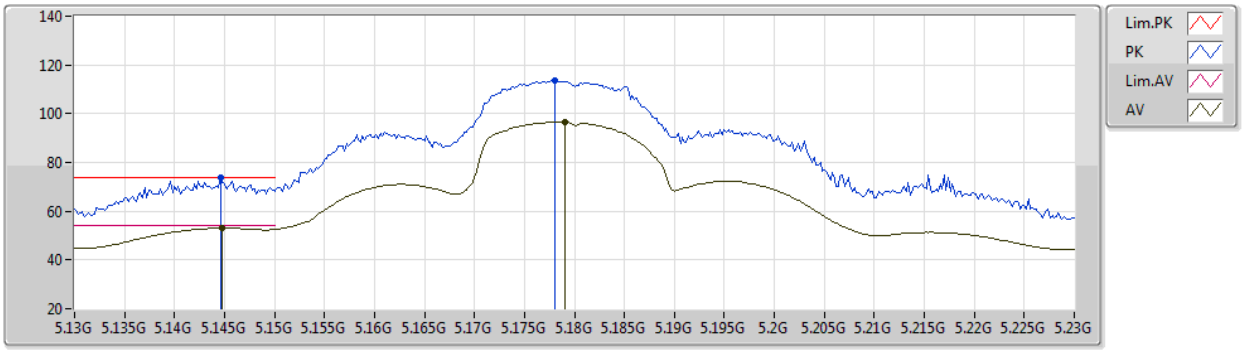
EUT Z_2TX
Setting 23
01-A-J-7

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	11.65012G	58.81	74.00	-15.19	47.31	3	Horizontal	293	2.18	-	38.50	7.88	34.88
AV	11.64992G	49.09	54.00	-4.91	37.59	3	Horizontal	293	2.18	-	38.50	7.88	34.88

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

29/10/2020



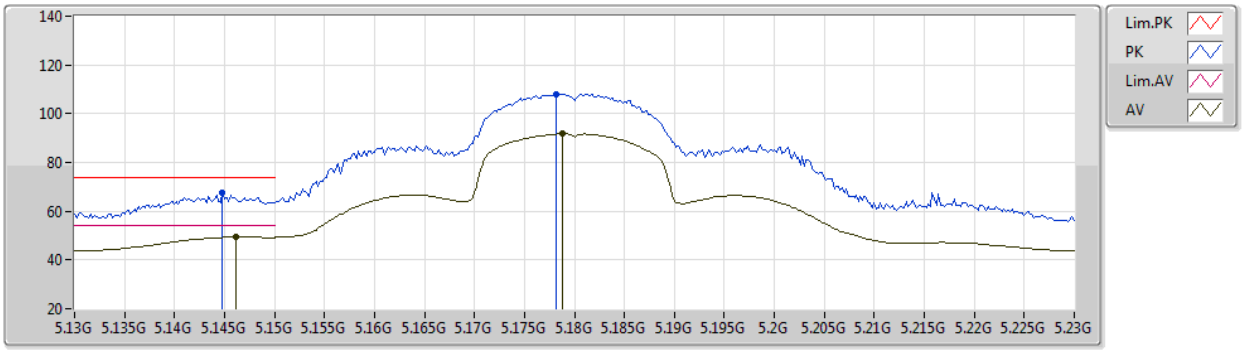
EUT Z_2TX
Setting 20
01-A-G-2-10

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	5.1446G	73.56	74.00	-0.44	70.31	3	Vertical	231	2.36	-	32.71	5.17	34.63
AV	5.1448G	53.09	54.00	-0.91	49.84	3	Vertical	231	2.36	-	32.71	5.17	34.63
PK	5.178G	113.76	Inf	-Inf	110.45	3	Vertical	231	2.36	-	32.76	5.19	34.64
AV	5.179G	96.65	Inf	-Inf	93.34	3	Vertical	231	2.36	-	32.76	5.19	34.64

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

29/10/2020



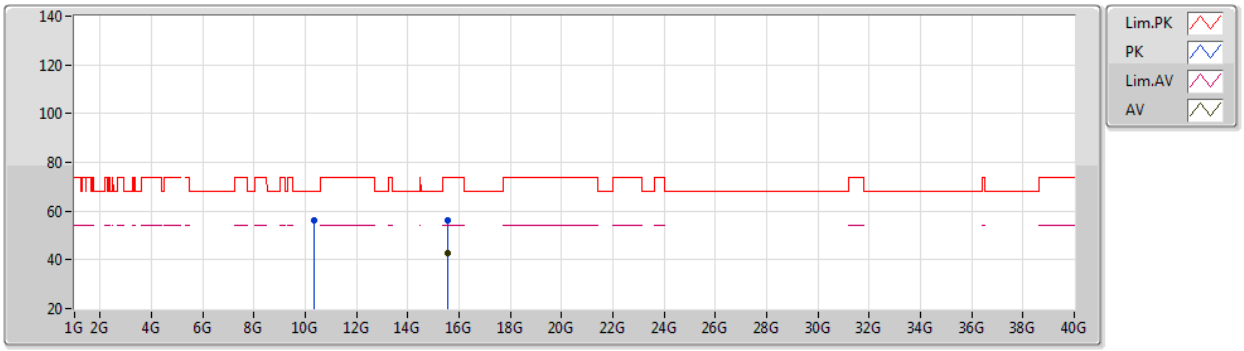
EUT Z_2TX
Setting 20
01-A-G-2-10

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	5.1448G	67.55	74.00	-6.45	64.30	3	Horizontal	254	2.96	-	32.71	5.17	34.63
AV	5.1462G	49.31	54.00	-4.69	46.06	3	Horizontal	254	2.96	-	32.71	5.17	34.63
PK	5.1782G	108.13	Inf	-Inf	104.82	3	Horizontal	254	2.96	-	32.76	5.19	34.64
AV	5.1788G	91.86	Inf	-Inf	88.55	3	Horizontal	254	2.96	-	32.76	5.19	34.64

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

29/10/2020



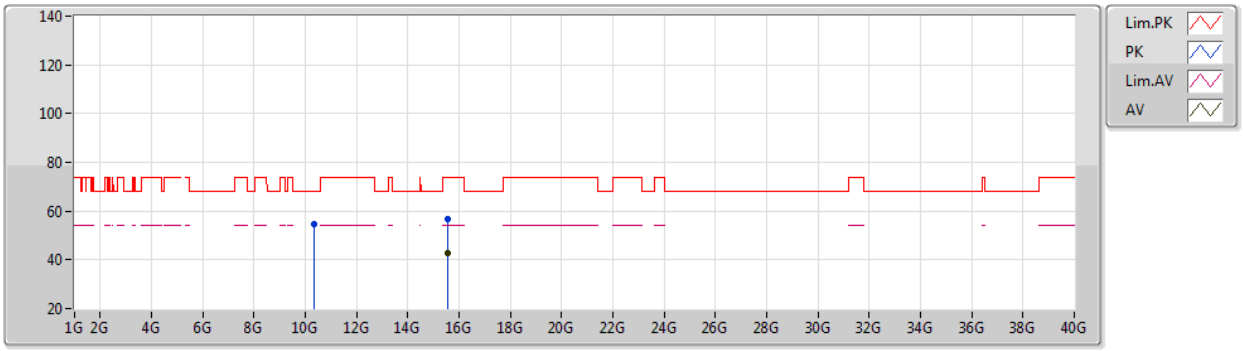
EUT Z_2TX
Setting 20
01-A-G-2

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	10.35984G	56.10	68.20	-12.10	45.79	3	Vertical	296	1.00	-	38.26	7.43	35.38
PK	15.53902G	56.36	74.00	-17.64	43.91	3	Vertical	65	1.37	-	38.06	9.21	34.82
AV	15.53936G	42.78	54.00	-11.22	30.33	3	Vertical	65	1.37	-	38.06	9.21	34.82

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

29/10/2020



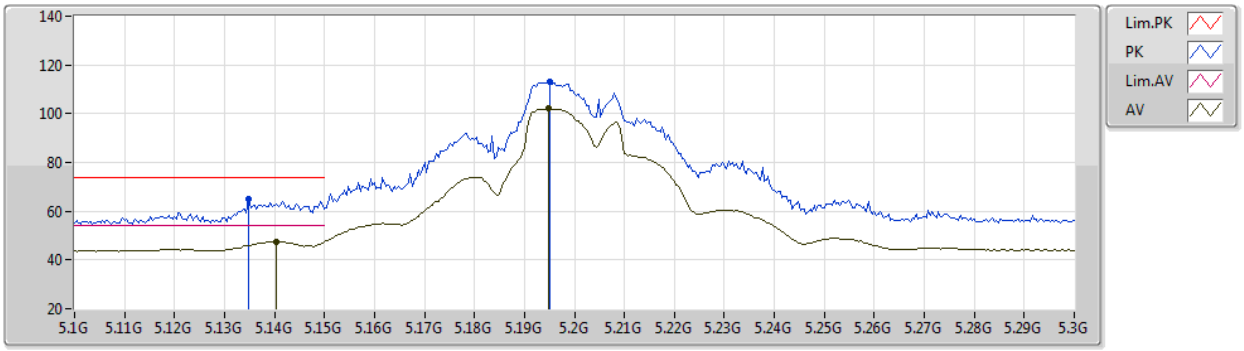
EUT Z_2TX
Setting 20
01-A-G-2

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	10.36G	54.87	68.20	-13.33	44.56	3	Horizontal	305	1.35	-	38.26	7.43	35.38
PK	15.5434G	56.54	74.00	-17.46	44.09	3	Horizontal	244	1.46	-	38.06	9.21	34.82
AV	15.54486G	42.79	54.00	-11.21	30.35	3	Horizontal	244	1.46	-	38.06	9.21	34.83

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

29/10/2020



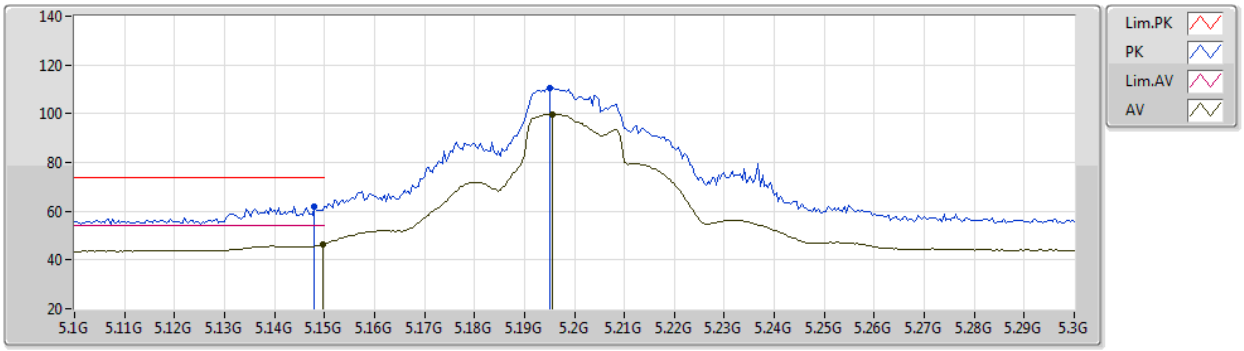
EUT Z_2TX
Setting 23
01-A-G-2-10

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	5.1348G	65.02	74.00	-8.98	61.75	3	Vertical	33	1.80	-	32.73	5.17	34.63
AV	5.1404G	47.48	54.00	-6.52	44.22	3	Vertical	33	1.80	-	32.72	5.17	34.63
PK	5.1952G	112.88	Inf	-Inf	109.54	3	Vertical	33	1.80	-	32.79	5.20	34.65
AV	5.1948G	102.14	Inf	-Inf	98.80	3	Vertical	33	1.80	-	32.79	5.20	34.65

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

29/10/2020



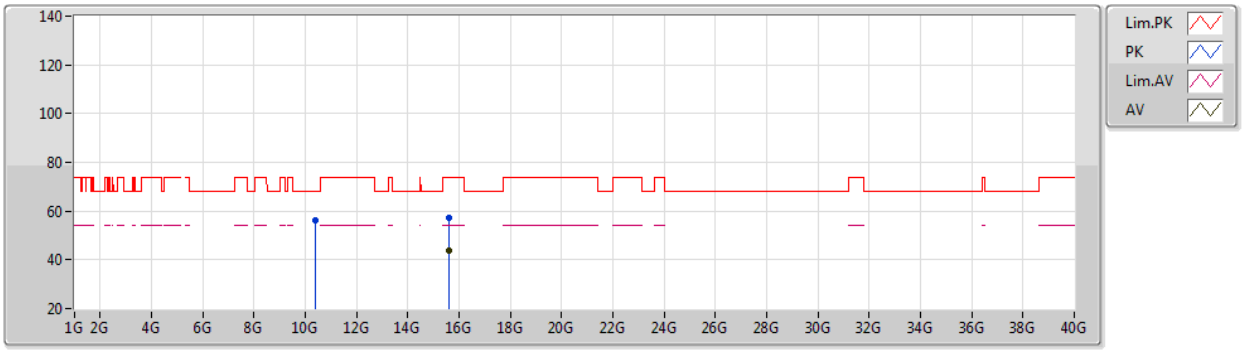
EUT Z_2TX
Setting 23
01-A-G-2-10

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	5.148G	61.94	74.00	-12.06	58.70	3	Horizontal	245	1.04	-	32.70	5.17	34.63
AV	5.1496G	46.51	54.00	-7.49	43.27	3	Horizontal	245	1.04	-	32.70	5.17	34.63
PK	5.1952G	110.48	Inf	-Inf	107.14	3	Horizontal	245	1.04	-	32.79	5.20	34.65
AV	5.1956G	99.63	Inf	-Inf	96.29	3	Horizontal	245	1.04	-	32.79	5.20	34.65

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

29/10/2020



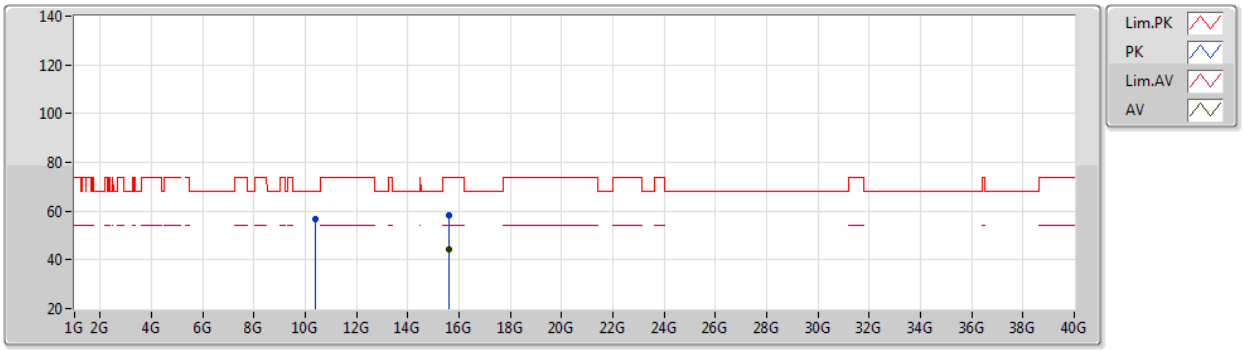
EUT Z_2TX
Setting 23
01-A-G-2

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	10.39996G	55.96	68.20	-12.24	45.57	3	Vertical	237	1.50	-	38.30	7.44	35.35
PK	15.59622G	57.14	74.00	-16.86	44.80	3	Vertical	121	2.29	-	38.00	9.22	34.88
AV	15.59914G	43.77	54.00	-10.23	31.43	3	Vertical	121	2.29	-	38.00	9.22	34.88

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

29/10/2020



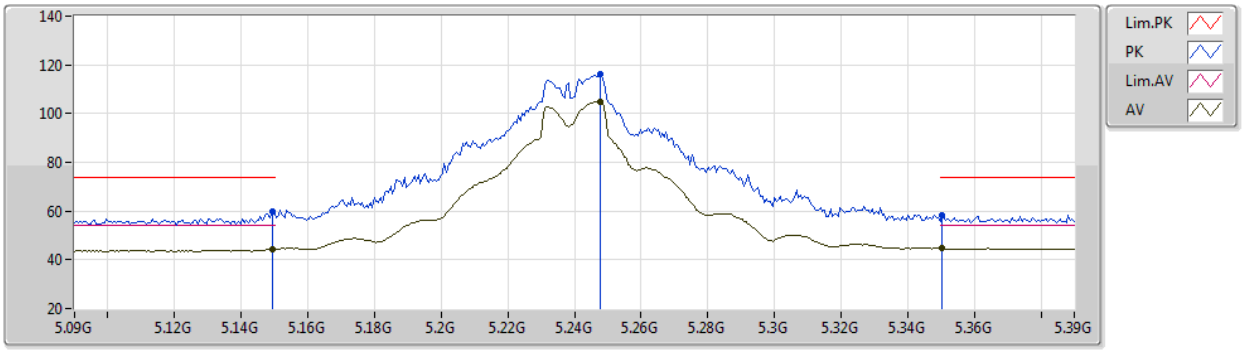
EUT Z_2TX
Setting 23
01-A-G-2

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	10.39974G	56.53	68.20	-11.67	46.14	3	Horizontal	88	2.21	-	38.30	7.44	35.35
PK	15.6027G	58.16	74.00	-15.84	45.81	3	Horizontal	288	2.88	-	38.01	9.22	34.88
AV	15.59862G	44.12	54.00	-9.88	31.78	3	Horizontal	288	2.88	-	38.00	9.22	34.88

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

29/10/2020



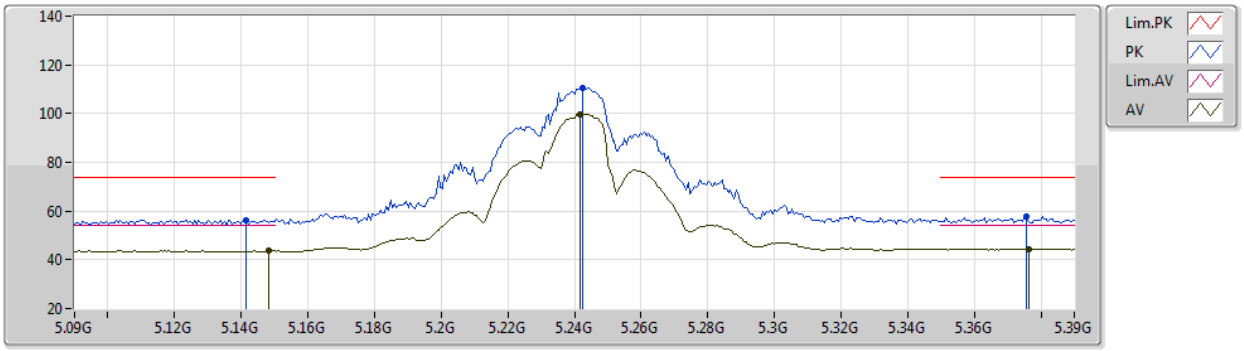
EUT Z_2TX
Setting 23
01-A-G-2-10

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	5.1494G	59.82	74.00	-14.18	56.58	3	Vertical	138	1.00	-	32.70	5.17	34.63
AV	5.1494G	44.37	54.00	-9.63	41.13	3	Vertical	138	1.00	-	32.70	5.17	34.63
PK	5.2478G	116.05	Inf	-Inf	112.57	3	Vertical	138	1.00	-	32.90	5.25	34.67
AV	5.2478G	104.85	Inf	-Inf	101.37	3	Vertical	138	1.00	-	32.90	5.25	34.67
PK	5.3504G	58.38	74.00	-15.62	54.64	3	Vertical	138	1.00	-	33.10	5.35	34.71
AV	5.3504G	44.70	54.00	-9.30	40.96	3	Vertical	138	1.00	-	33.10	5.35	34.71

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

29/10/2020



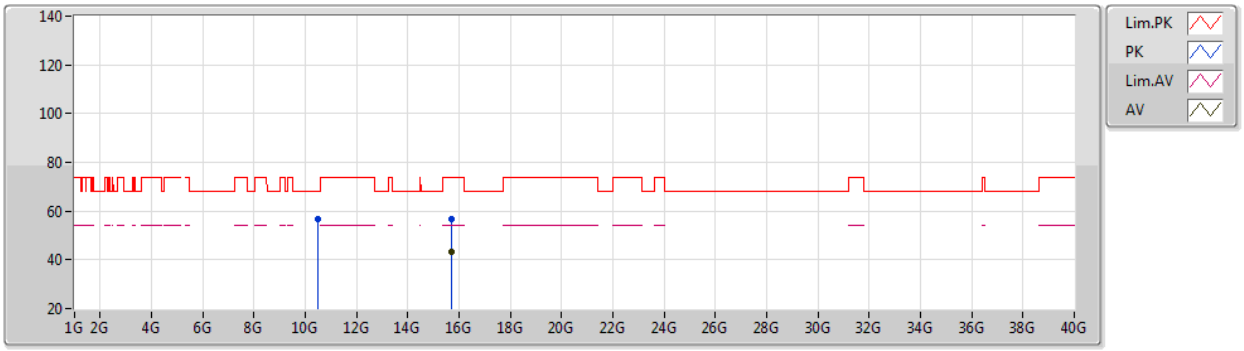
EUT Z_2TX
Setting 23
01-A-G-2-10

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	5.1416G	56.44	74.00	-17.56	53.18	3	Horizontal	259	2.92	-	32.72	5.17	34.63
AV	5.1482G	43.75	54.00	-10.25	40.51	3	Horizontal	259	2.92	-	32.70	5.17	34.63
PK	5.2424G	110.76	Inf	-Inf	107.31	3	Horizontal	259	2.92	-	32.88	5.24	34.67
AV	5.2418G	99.83	Inf	-Inf	96.38	3	Horizontal	259	2.92	-	32.88	5.24	34.67
PK	5.3756G	57.86	74.00	-16.14	54.05	3	Horizontal	259	2.92	-	33.15	5.38	34.72
AV	5.3762G	44.34	54.00	-9.66	40.53	3	Horizontal	259	2.92	-	33.15	5.38	34.72

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

29/10/2020



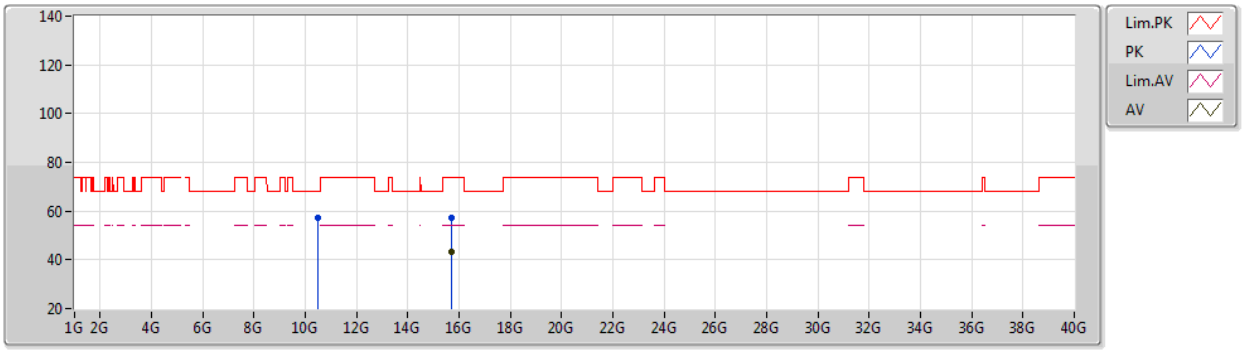
EUT Z_2TX
Setting 23
01-A-G-2

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	10.47996G	56.65	68.20	-11.55	46.01	3	Vertical	268	2.83	-	38.46	7.47	35.29
PK	15.72166G	56.73	74.00	-17.27	44.26	3	Vertical	282	2.97	-	38.24	9.24	35.01
AV	15.71638G	43.25	54.00	-10.75	30.78	3	Vertical	282	2.97	-	38.23	9.24	35.00

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

29/10/2020



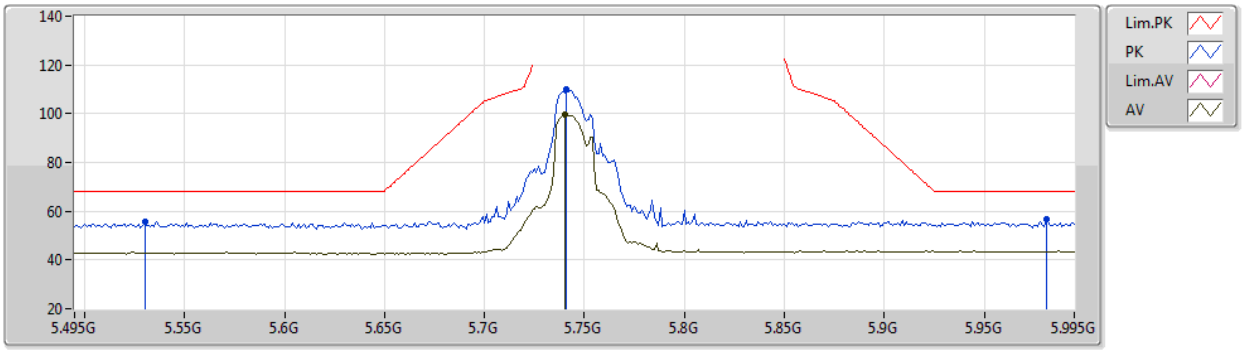
EUT Z_2TX
Setting 23
01-A-G-2

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	10.48G	57.26	68.20	-10.94	46.62	3	Horizontal	334	1.01	-	38.46	7.47	35.29
PK	15.72014G	57.09	74.00	-16.91	44.61	3	Horizontal	47	2.70	-	38.24	9.24	35.00
AV	15.71822G	43.38	54.00	-10.62	30.90	3	Horizontal	47	2.70	-	38.24	9.24	35.00

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

09/11/2020



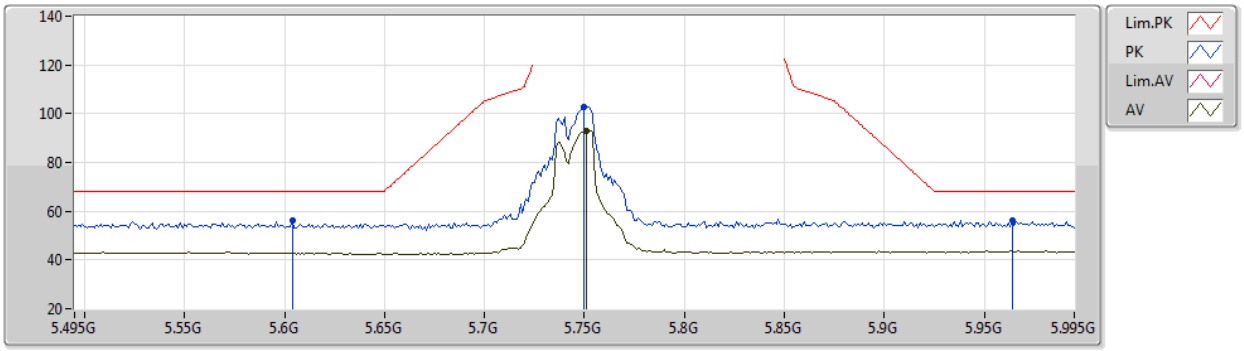
EUT Z_2TX
Setting 15.5
01-A-G-2-10

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	5.53G	55.92	68.20	-12.28	53.63	3	Vertical	334	2.60	-	31.64	5.40	34.75
PK	5.741G	109.81	Inf	-Inf	107.13	3	Vertical	334	2.60	-	31.88	5.47	34.67
AV	5.74G	99.47	Inf	-Inf	96.79	3	Vertical	334	2.60	-	31.88	5.47	34.67
PK	5.981G	56.50	68.20	-11.70	53.34	3	Vertical	334	2.60	-	32.24	5.50	34.58

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

09/11/2020



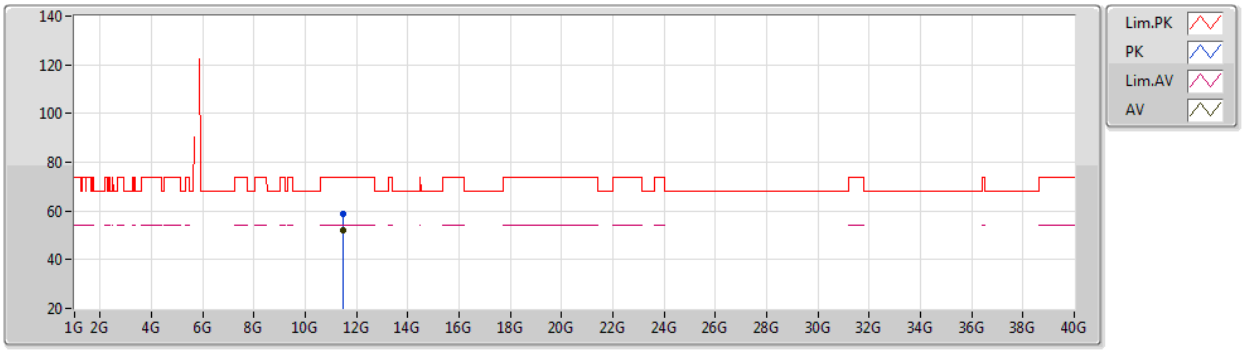
EUT Z_2TX
Setting 15.5
01-A-G-2-10

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	5.604G	56.24	68.20	-11.96	53.96	3	Horizontal	76	2.36	-	31.60	5.40	34.72
PK	5.75G	103.00	Inf	-Inf	100.29	3	Horizontal	76	2.36	-	31.90	5.47	34.66
AV	5.751G	93.17	Inf	-Inf	90.45	3	Horizontal	76	2.36	-	31.90	5.48	34.66
PK	5.964G	56.14	68.20	-12.06	52.95	3	Horizontal	76	2.36	-	32.27	5.50	34.58

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

09/11/2020



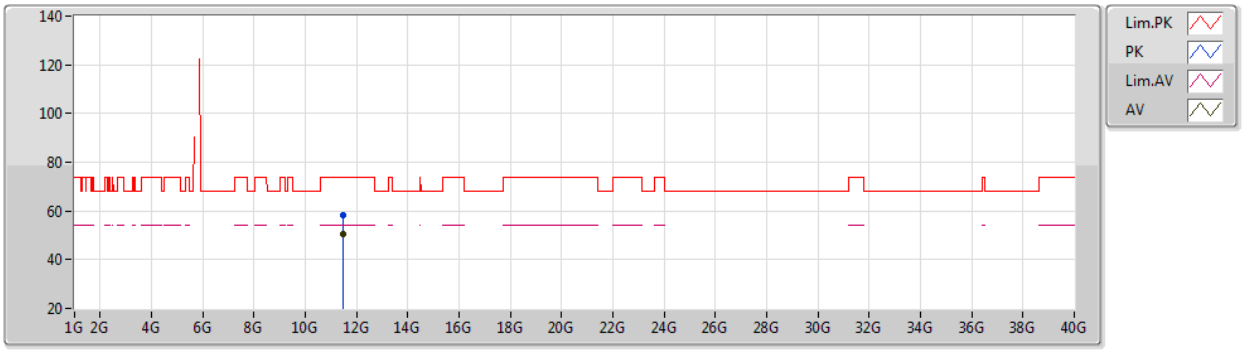
EUT Z_2TX
Setting 15.5
01-A-G-2

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	11.48998G	58.64	74.00	-15.36	45.35	3	Vertical	12	2.28	-	40.30	7.82	34.83
AV	11.4899G	52.26	54.00	-1.74	38.97	3	Vertical	12	2.28	-	40.30	7.82	34.83

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

09/11/2020



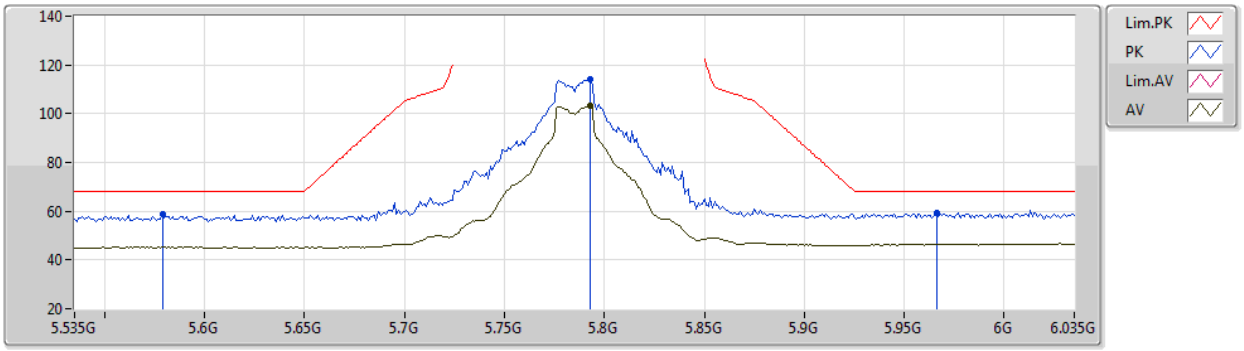
EUT Z_2TX
Setting 15.5
01-A-G-2

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	11.49007G	58.19	74.00	-15.81	44.90	3	Horizontal	111	2.20	-	40.30	7.82	34.83
AV	11.48991G	50.72	54.00	-3.28	37.43	3	Horizontal	111	2.20	-	40.30	7.82	34.83

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

29/10/2020



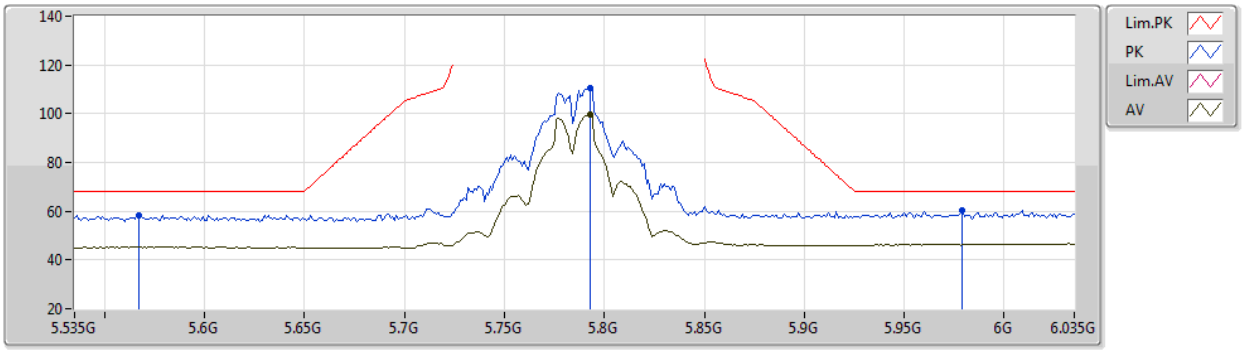
EUT Z_2TX
Setting 23
01-A-G-2-10

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	5.579G	58.57	68.20	-9.63	53.94	3	Vertical	46	2.41	-	33.96	5.40	34.73
PK	5.793G	114.30	Inf	-Inf	109.15	3	Vertical	46	2.41	-	34.30	5.50	34.65
AV	5.793G	103.31	Inf	-Inf	98.16	3	Vertical	46	2.41	-	34.30	5.50	34.65
PK	5.966G	59.51	68.20	-8.69	53.36	3	Vertical	46	2.41	-	35.23	5.50	34.58

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

29/10/2020



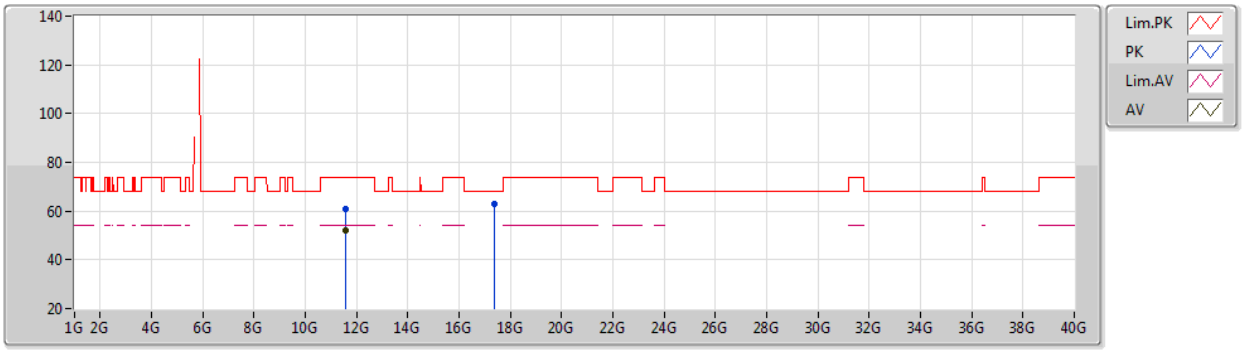
EUT Z_2TX
Setting 23
01-A-G-2-10

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	5.567G	58.43	68.20	-9.77	53.83	3	Horizontal	65	2.69	-	33.93	5.40	34.73
PK	5.793G	110.42	Inf	-Inf	105.27	3	Horizontal	65	2.69	-	34.30	5.50	34.65
AV	5.793G	99.60	Inf	-Inf	94.45	3	Horizontal	65	2.69	-	34.30	5.50	34.65
PK	5.979G	60.32	68.20	-7.88	54.14	3	Horizontal	65	2.69	-	35.26	5.50	34.58

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

29/10/2020



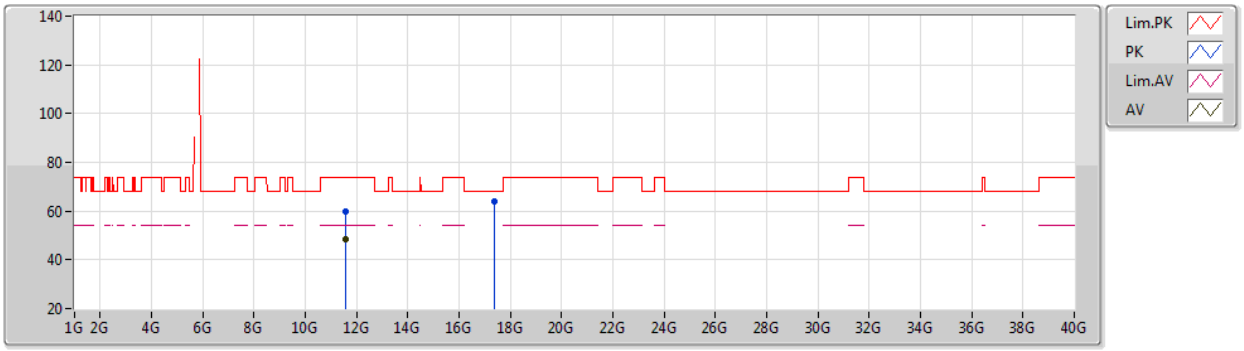
EUT Z_2TX
Setting 23
01-A-G-2

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	11.56324G	60.76	74.00	-13.24	49.30	3	Vertical	0	2.22	-	38.46	7.85	34.85
AV	11.56992G	51.87	54.00	-2.13	40.41	3	Vertical	0	2.22	-	38.47	7.85	34.86
PK	17.35488G	63.12	68.20	-5.08	45.28	3	Vertical	236	2.26	-	42.02	9.77	33.95

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

29/10/2020



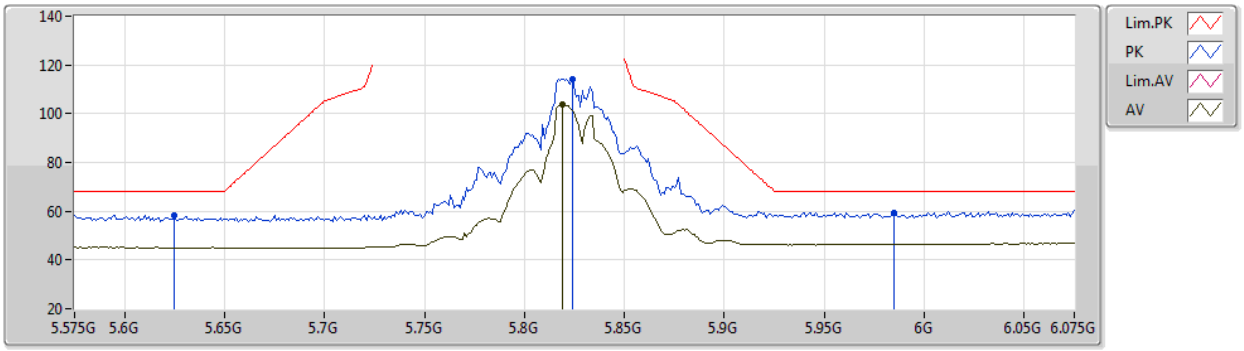
EUT Z_2TX
Setting 23
01-A-G-2

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	11.56436G	59.96	74.00	-14.04	48.50	3	Horizontal	326	2.26	-	38.46	7.85	34.85
AV	11.56992G	48.37	54.00	-5.63	36.91	3	Horizontal	326	2.26	-	38.47	7.85	34.86
PK	17.3578G	63.77	68.20	-4.43	45.91	3	Horizontal	14	2.32	-	42.03	9.78	33.95

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

29/10/2020



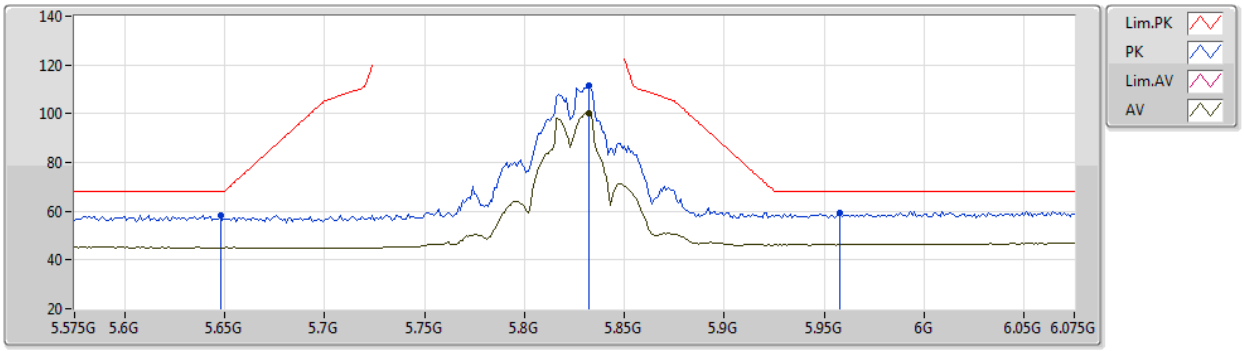
EUT Z_2TX
Setting 23
01-A-G-2-10

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	5.625G	58.25	68.20	-9.95	53.45	3	Vertical	114	2.42	-	34.10	5.41	34.71
PK	5.824G	114.25	Inf	-Inf	108.90	3	Vertical	114	2.42	-	34.49	5.50	34.64
AV	5.819G	103.77	Inf	-Inf	98.46	3	Vertical	114	2.42	-	34.45	5.50	34.64
PK	5.985G	59.32	68.20	-8.88	53.13	3	Vertical	114	2.42	-	35.27	5.50	34.58

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

29/10/2020



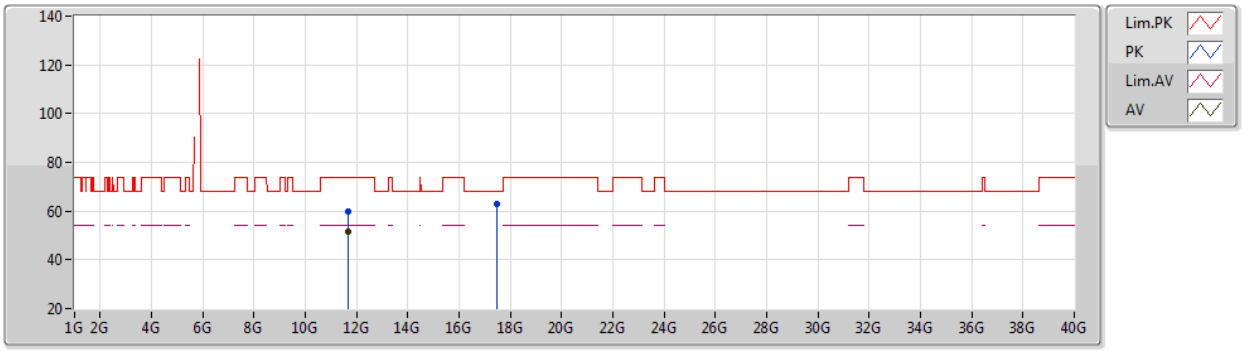
EUT Z_2TX
Setting 23
01-A-G-2-10

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	5.648G	58.22	68.20	-9.98	53.31	3	Horizontal	67	2.63	-	34.19	5.42	34.70
PK	5.832G	111.50	Inf	-Inf	106.07	3	Horizontal	67	2.63	-	34.56	5.50	34.63
AV	5.832G	100.40	Inf	-Inf	94.97	3	Horizontal	67	2.63	-	34.56	5.50	34.63
PK	5.958G	59.10	68.20	-9.10	52.97	3	Horizontal	67	2.63	-	35.22	5.50	34.59

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

29/10/2020



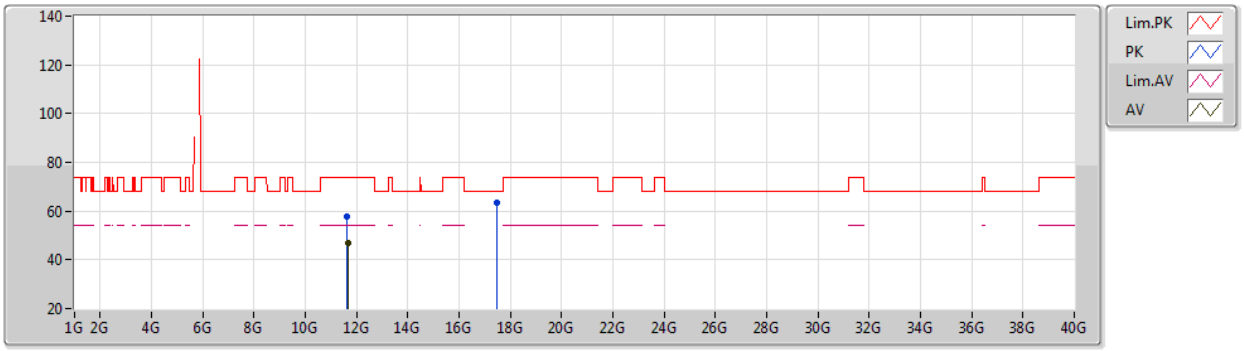
EUT Z_2TX
Setting 23
01-A-G-2

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	11.65392G	59.80	74.00	-14.20	48.31	3	Vertical	2	2.88	-	38.50	7.88	34.89
AV	11.64996G	51.37	54.00	-2.63	39.87	3	Vertical	2	2.88	-	38.50	7.88	34.88
PK	17.46728G	62.72	68.20	-5.48	44.81	3	Vertical	165	2.67	-	42.13	9.81	34.03

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

29/10/2020



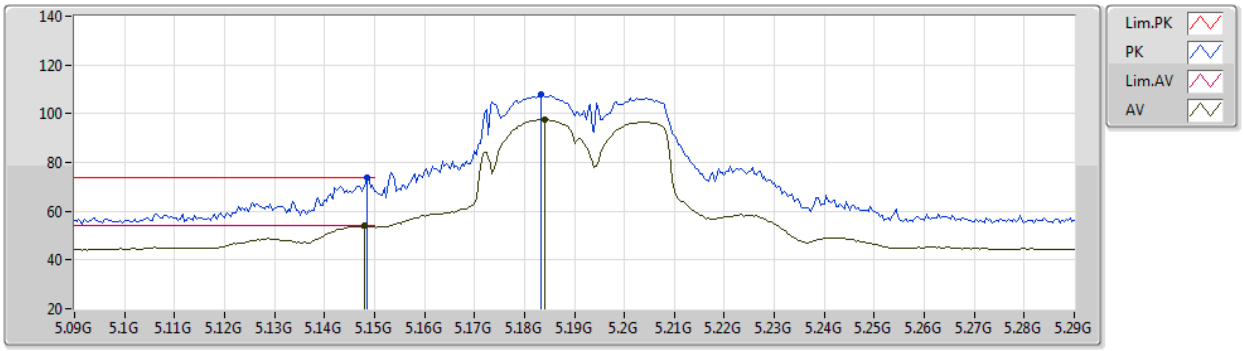
EUT Z_2TX
Setting 23
01-A-G-2

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	11.64516G	57.80	74.00	-16.20	46.30	3	Horizontal	304	1.88	-	38.50	7.88	34.88
AV	11.64992G	47.12	54.00	-6.88	35.62	3	Horizontal	304	1.88	-	38.50	7.88	34.88
PK	17.47832G	63.26	68.20	-4.94	45.35	3	Horizontal	119	1.78	-	42.12	9.82	34.03

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

29/10/2020



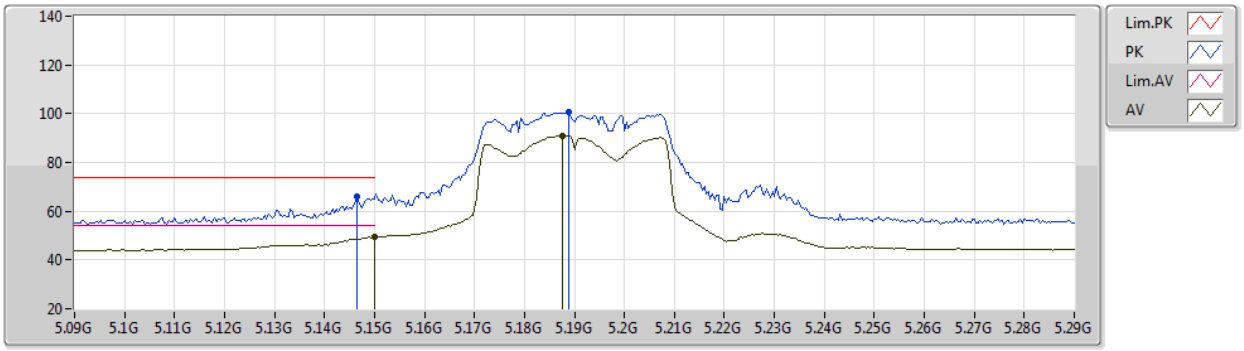
EUT Z_2TX
Setting 16
01-A-G-2-10

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	5.1484G	73.66	74.00	-0.34	70.42	3	Vertical	31	2.52	-	32.70	5.17	34.63
AV	5.148G	53.89	54.00	-0.11	50.65	3	Vertical	31	2.52	-	32.70	5.17	34.63
PK	5.1832G	107.88	Inf	-Inf	104.57	3	Vertical	31	2.52	-	32.77	5.19	34.65
AV	5.184G	97.72	Inf	-Inf	94.41	3	Vertical	31	2.52	-	32.77	5.19	34.65

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

29/10/2020



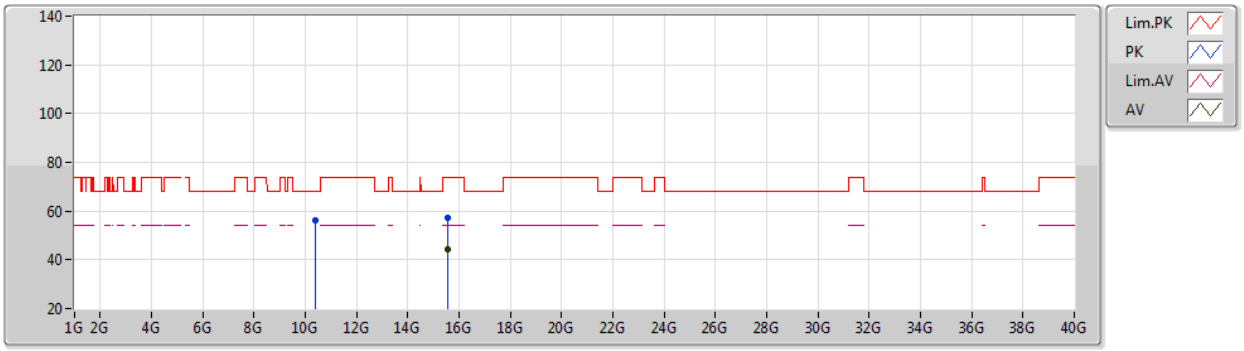
EUT Z_2TX
Setting 16
01-A-G-2-10

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	5.1464G	66.23	74.00	-7.77	62.98	3	Horizontal	252	2.79	-	32.71	5.17	34.63
AV	5.15G	49.37	54.00	-4.63	46.13	3	Horizontal	252	2.79	-	32.70	5.17	34.63
PK	5.1888G	100.61	Inf	-Inf	97.29	3	Horizontal	252	2.79	-	32.78	5.19	34.65
AV	5.1876G	91.07	Inf	-Inf	87.75	3	Horizontal	252	2.79	-	32.78	5.19	34.65

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

29/10/2020



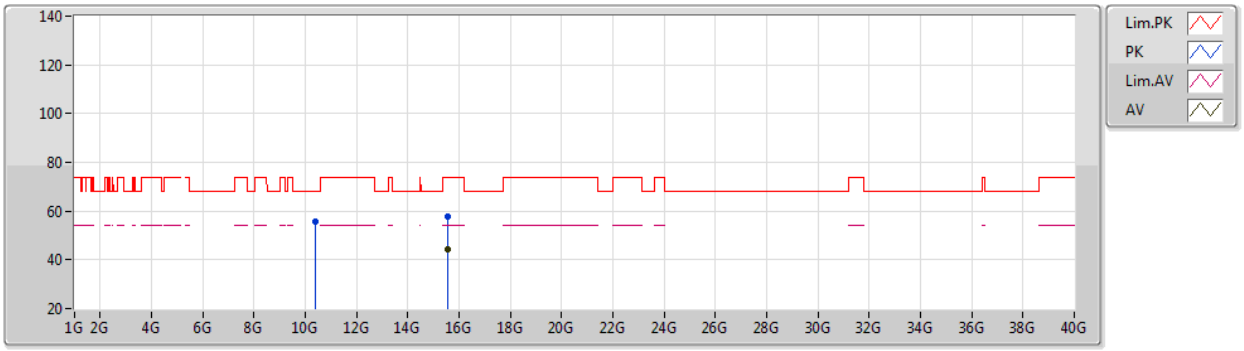
EUT Z_2TX
Setting 16
01-A-J-7

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	10.37996G	56.20	68.20	-12.00	45.85	3	Vertical	293	2.36	-	38.28	7.43	35.36
PK	15.57072G	57.08	74.00	-16.92	44.69	3	Vertical	36	1.54	-	38.03	9.21	34.85
AV	15.57029G	44.25	54.00	-9.75	31.86	3	Vertical	36	1.54	-	38.03	9.21	34.85

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

29/10/2020



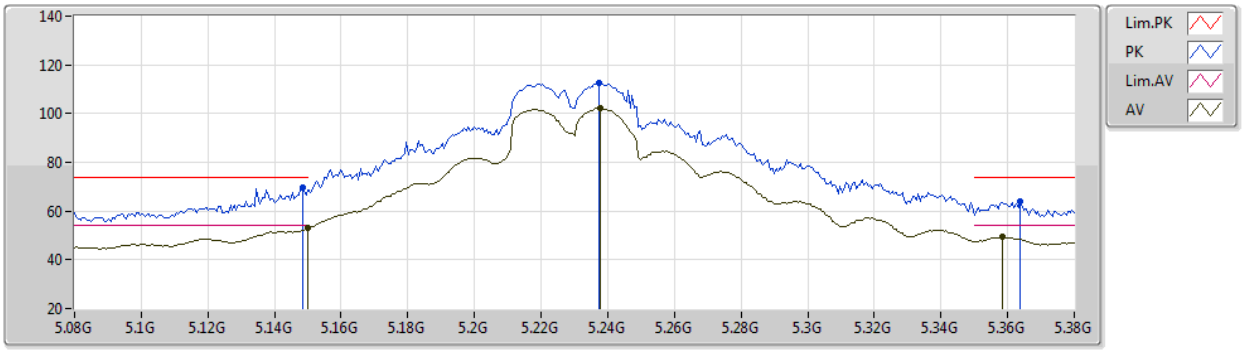
EUT Z_2TX
Setting 16
01-A-J-7

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	10.37988G	55.74	68.20	-12.46	45.39	3	Horizontal	288	2.29	-	38.28	7.43	35.36
PK	15.57044G	57.96	74.00	-16.04	45.57	3	Horizontal	309	1.82	-	38.03	9.21	34.85
AV	15.57068G	44.11	54.00	-9.89	31.72	3	Horizontal	309	1.82	-	38.03	9.21	34.85

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

29/10/2020



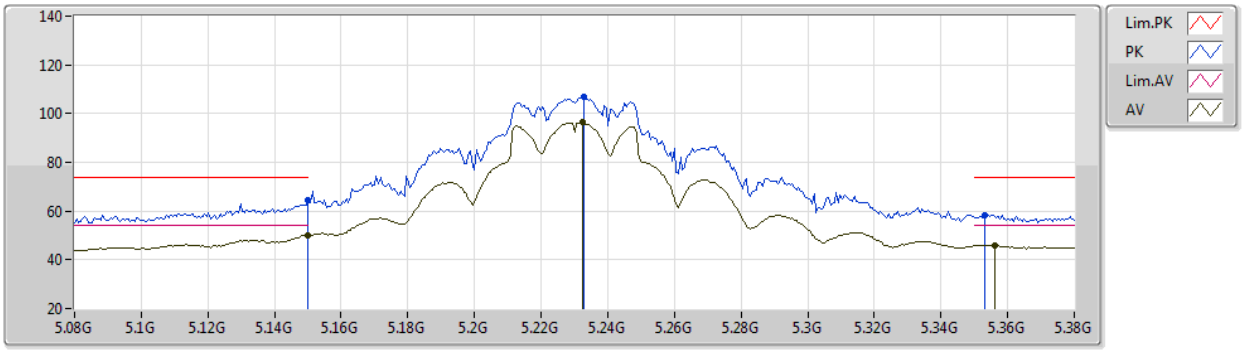
EUT Z_2TX
Setting 21.5
01-A-G-2-10

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	5.1484G	69.44	74.00	-4.56	66.20	3	Vertical	139	1.00	-	32.70	5.17	34.63
AV	5.15G	53.10	54.00	-0.90	49.86	3	Vertical	139	1.00	-	32.70	5.17	34.63
PK	5.2372G	112.52	Inf	-Inf	109.08	3	Vertical	139	1.00	-	32.87	5.24	34.67
AV	5.2378G	102.08	Inf	-Inf	98.63	3	Vertical	139	1.00	-	32.88	5.24	34.67
PK	5.3638G	64.22	74.00	-9.78	60.44	3	Vertical	139	1.00	-	33.13	5.36	34.71
AV	5.3584G	49.44	54.00	-4.56	45.67	3	Vertical	139	1.00	-	33.12	5.36	34.71

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

29/10/2020



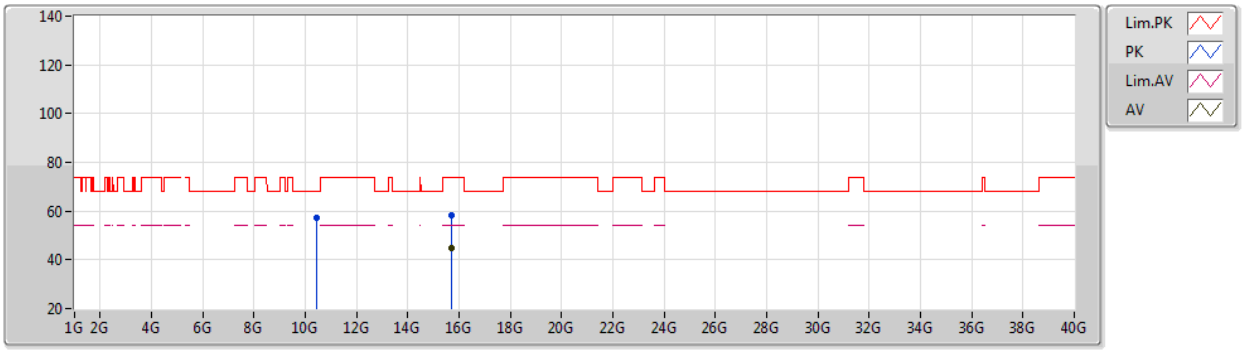
EUT Z_2TX
Setting 21.5
01-A-G-2-10

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	64.42	74.00	-9.58	61.18	3	Horizontal	253	2.92	-	32.70	5.17	34.63
AV	5.15G	50.18	54.00	-3.82	46.94	3	Horizontal	253	2.92	-	32.70	5.17	34.63
PK	5.233G	106.70	Inf	-Inf	103.26	3	Horizontal	253	2.92	-	32.87	5.23	34.66
AV	5.2324G	96.40	Inf	-Inf	92.97	3	Horizontal	253	2.92	-	32.86	5.23	34.66
PK	5.353G	58.51	74.00	-15.49	54.76	3	Horizontal	253	2.92	-	33.11	5.35	34.71
AV	5.356G	46.04	54.00	-7.96	42.28	3	Horizontal	253	2.92	-	33.11	5.36	34.71

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

29/10/2020



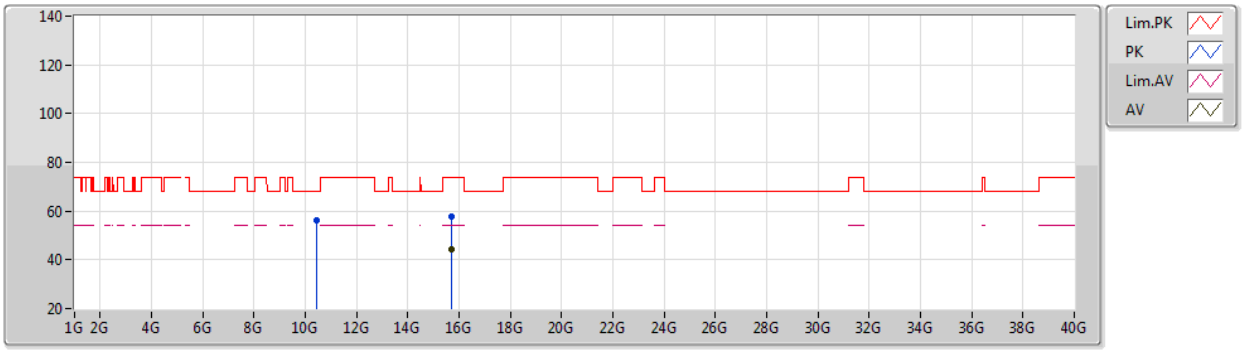
EUT Z_2TX
Setting 21.5
01-A-J-7

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	10.46012G	57.36	68.20	-10.84	46.78	3	Vertical	291	2.30	-	38.42	7.46	35.30
PK	15.69063G	58.05	74.00	-15.95	45.60	3	Vertical	290	1.50	-	38.18	9.24	34.97
AV	15.68908G	44.67	54.00	-9.33	32.22	3	Vertical	290	1.50	-	38.18	9.24	34.97

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

29/10/2020



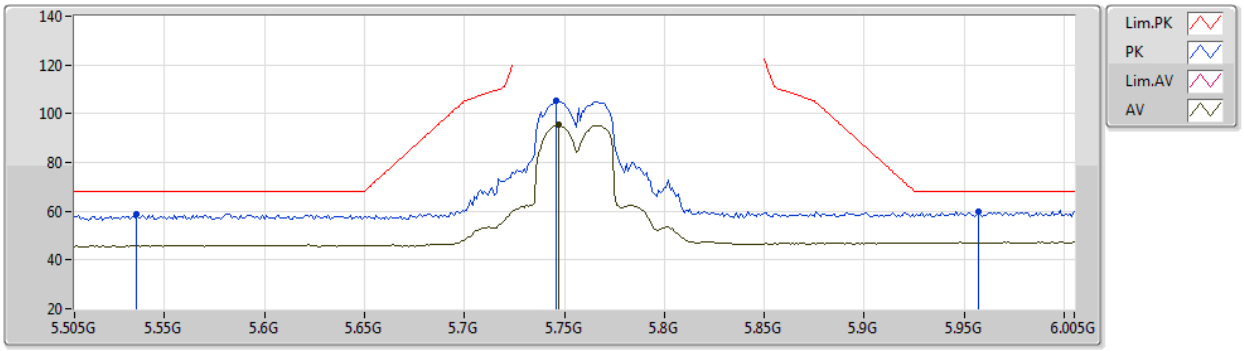
EUT Z_2TX
Setting 21.5
01-A-J-7

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	10.4597G	55.98	68.20	-12.22	45.40	3	Horizontal	287	2.28	-	38.42	7.46	35.30
PK	15.69018G	57.83	74.00	-16.17	45.38	3	Horizontal	177	2.18	-	38.18	9.24	34.97
AV	15.69084G	44.19	54.00	-9.81	31.74	3	Horizontal	177	2.18	-	38.18	9.24	34.97

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

29/10/2020



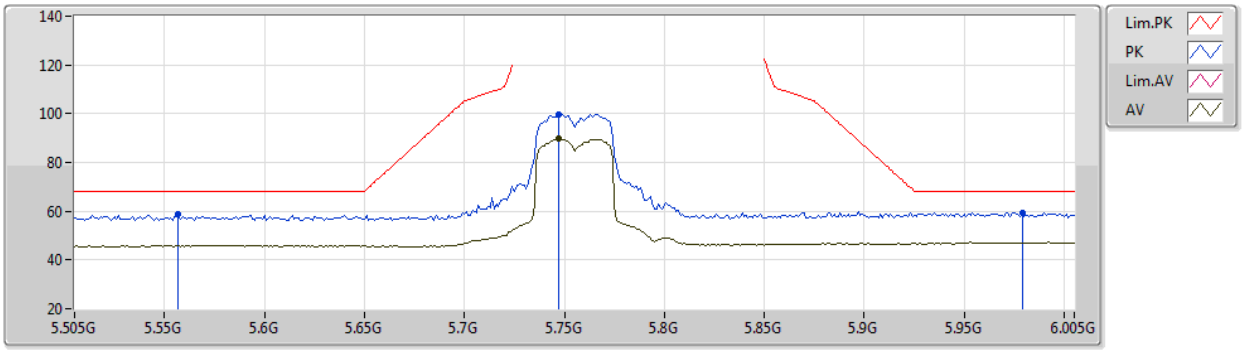
EUT Z_2TX
Setting 15
01-A-G-2-10

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	5.536G	58.66	68.20	-9.54	54.14	3	Vertical	121	2.42	-	33.87	5.40	34.75
PK	5.746G	105.37	Inf	-Inf	100.29	3	Vertical	121	2.42	-	34.28	5.47	34.67
AV	5.747G	95.36	Inf	-Inf	90.28	3	Vertical	121	2.42	-	34.28	5.47	34.67
PK	5.957G	59.58	68.20	-8.62	53.46	3	Vertical	121	2.42	-	35.21	5.50	34.59

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

29/10/2020



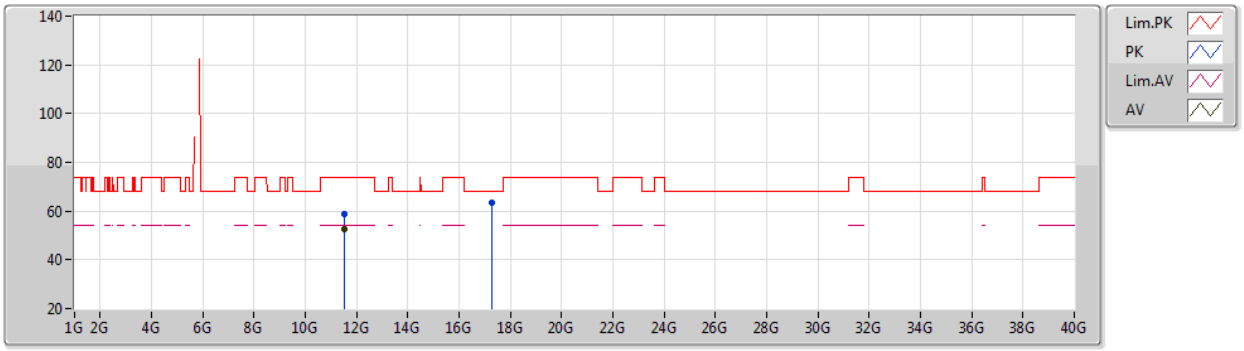
EUT Z_2TX
Setting 15
01-A-G-2-10

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	5.557G	59.04	68.20	-9.16	54.47	3	Horizontal	149	3.00	-	33.91	5.40	34.74
PK	5.747G	99.80	Inf	-Inf	94.72	3	Horizontal	149	3.00	-	34.28	5.47	34.67
AV	5.747G	89.62	Inf	-Inf	84.54	3	Horizontal	149	3.00	-	34.28	5.47	34.67
PK	5.979G	59.41	68.20	-8.79	53.23	3	Horizontal	149	3.00	-	35.26	5.50	34.58

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

29/10/2020



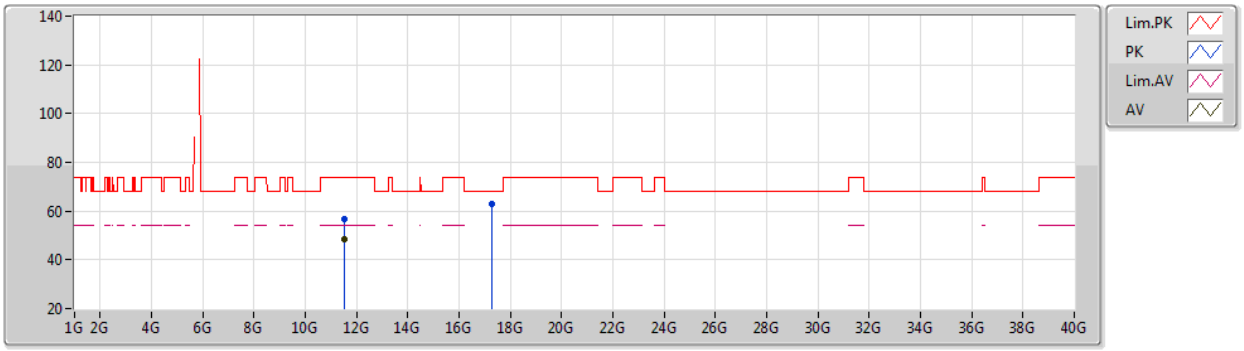
EUT Z_2TX
Setting 15
01-A-J-7

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	11.51003G	58.64	74.00	-15.36	47.23	3	Vertical	5	2.77	-	38.41	7.83	34.83
AV	11.50991G	52.83	54.00	-1.17	41.42	3	Vertical	5	2.77	-	38.41	7.83	34.83
PK	17.2682G	63.57	68.20	-4.63	45.94	3	Vertical	87	2.23	-	41.77	9.74	33.88

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

29/10/2020



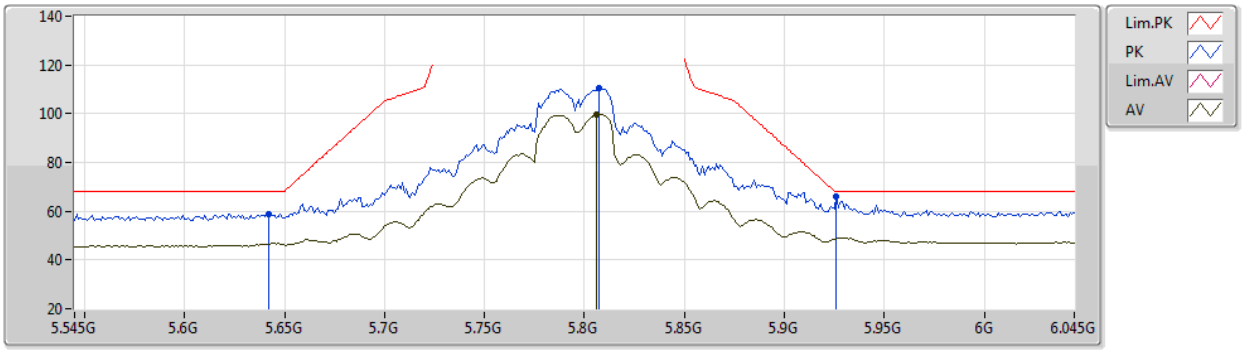
EUT Z_2TX
Setting 15
01-A-J-7

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	11.50978G	56.93	74.00	-17.07	45.52	3	Horizontal	327	2.24	-	38.41	7.83	34.83
AV	11.50991G	48.64	54.00	-5.36	37.23	3	Horizontal	327	2.24	-	38.41	7.83	34.83
PK	17.26502G	63.15	68.20	-5.05	45.52	3	Horizontal	143	2.36	-	41.77	9.74	33.88

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

29/10/2020



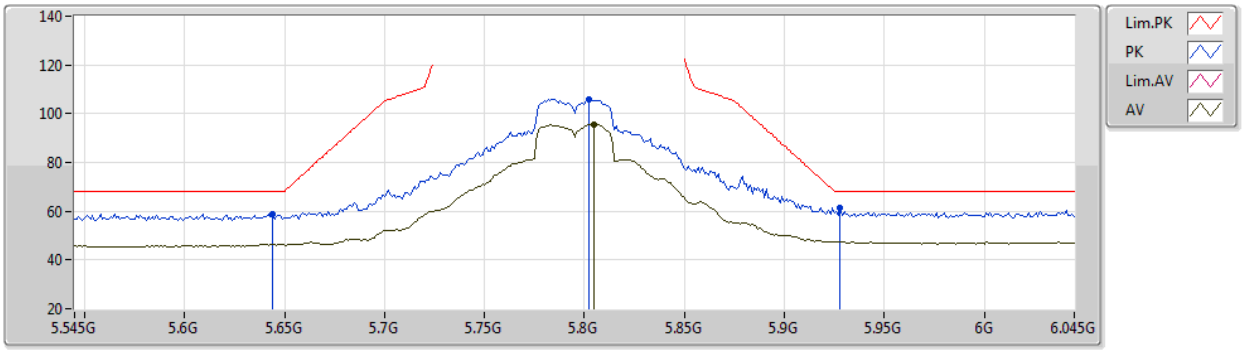
EUT Z_2TX
Setting 23
01-A-G-2-10

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	5.642G	58.90	68.20	-9.30	54.02	3	Vertical	120	1.80	-	34.17	5.42	34.71
PK	5.807G	110.59	Inf	-Inf	105.37	3	Vertical	120	1.80	-	34.36	5.50	34.64
AV	5.806G	99.78	Inf	-Inf	94.57	3	Vertical	120	1.80	-	34.35	5.50	34.64
PK	5.926G	65.84	68.20	-2.36	59.93	3	Vertical	120	1.80	-	35.01	5.50	34.60

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

29/10/2020



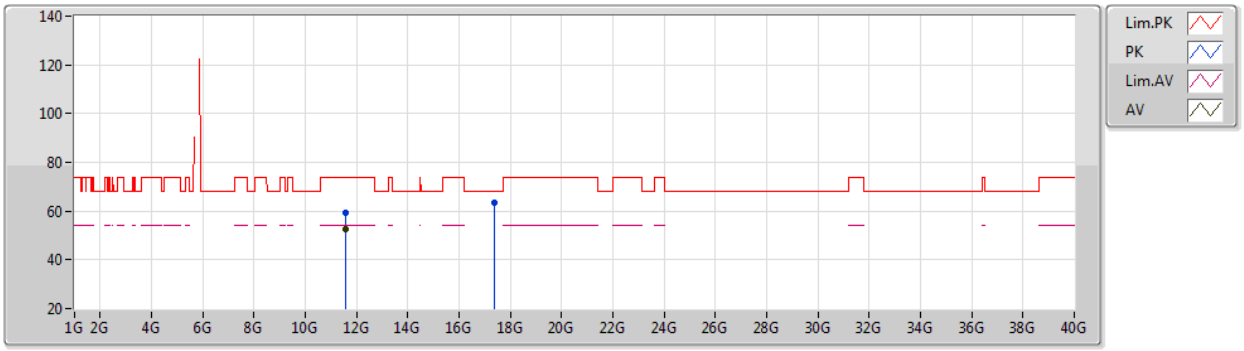
EUT Z_2TX
Setting 23
01-A-G-2-10

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	5.644G	59.01	68.20	-9.19	54.12	3	Horizontal	151	2.98	-	34.18	5.42	34.71
PK	5.802G	106.02	Inf	-Inf	100.85	3	Horizontal	151	2.98	-	34.32	5.50	34.65
AV	5.805G	95.73	Inf	-Inf	90.53	3	Horizontal	151	2.98	-	34.34	5.50	34.64
PK	5.928G	61.20	68.20	-7.00	55.28	3	Horizontal	151	2.98	-	35.02	5.50	34.60

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

29/10/2020



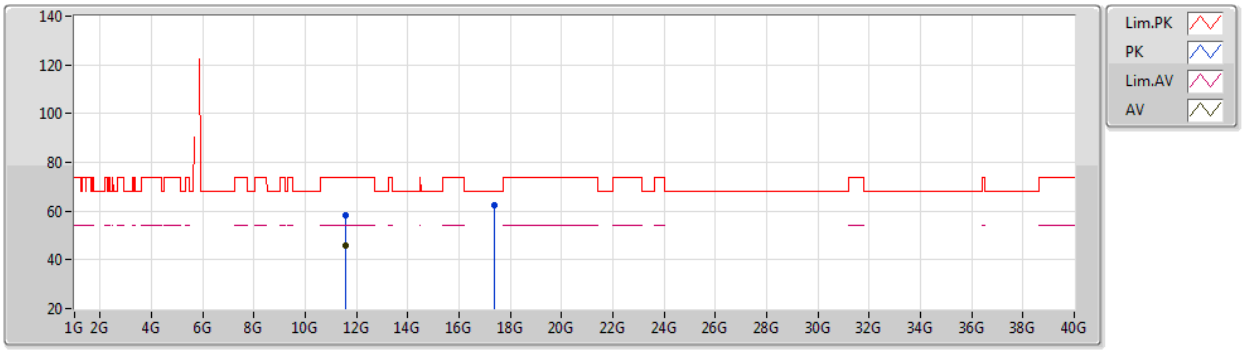
EUT Z_2TX
Setting 23
01-A-J-7

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	11.58997G	59.52	74.00	-14.48	48.03	3	Vertical	341	2.18	-	38.49	7.86	34.86
AV	11.58998G	52.47	54.00	-1.53	40.98	3	Vertical	341	2.18	-	38.49	7.86	34.86
PK	17.38507G	63.21	68.20	-4.99	45.26	3	Vertical	76	2.68	-	42.14	9.78	33.97

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

29/10/2020



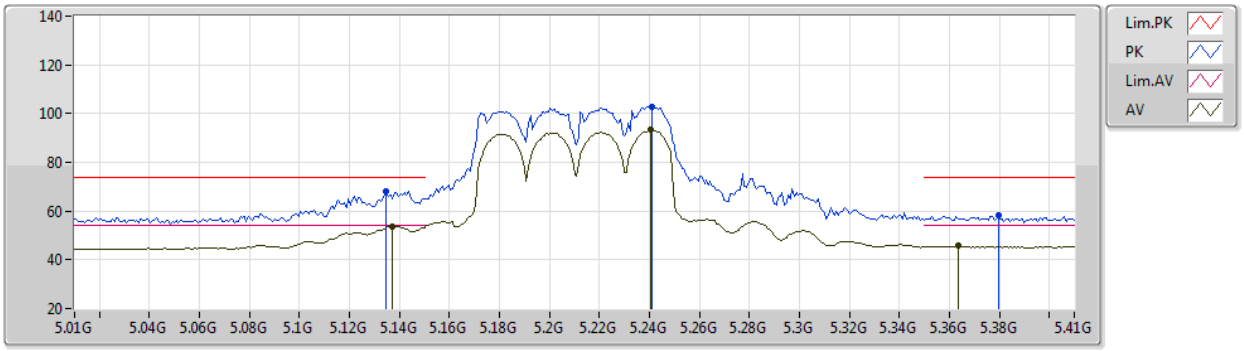
EUT Z_2TX
Setting 23
01-A-J-7

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	11.59006G	58.32	74.00	-15.68	46.83	3	Horizontal	111	2.26	-	38.49	7.86	34.86
AV	11.58991G	46.01	54.00	-7.99	34.52	3	Horizontal	111	2.26	-	38.49	7.86	34.86
PK	17.38587G	62.55	68.20	-5.65	44.59	3	Horizontal	38	1.55	-	42.14	9.79	33.97

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

30/10/2020



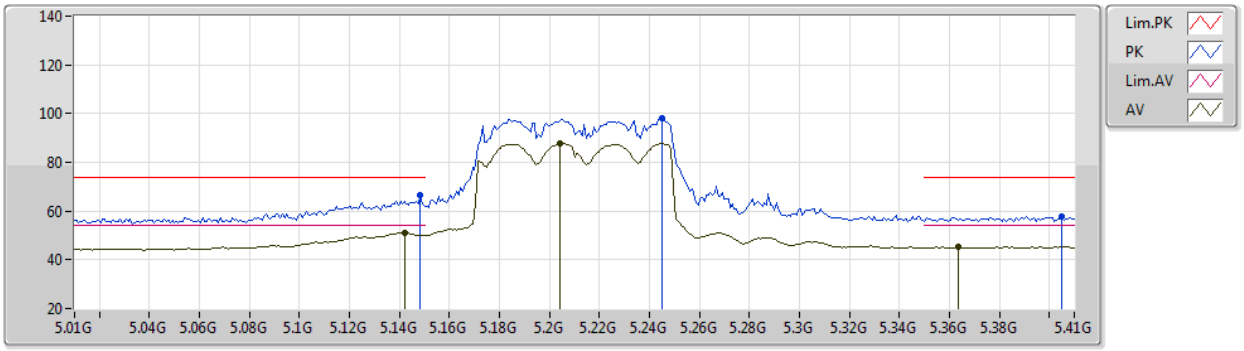
EUT Z_2TX
Setting 15.5
01-A-J-7-10

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	5.1348G	68.10	74.00	-5.90	64.83	3	Vertical	258	2.64	-	32.73	5.17	34.63
AV	5.1372G	53.73	54.00	-0.27	50.46	3	Vertical	258	2.64	-	32.73	5.17	34.63
PK	5.2412G	102.68	Inf	-Inf	99.23	3	Vertical	258	2.64	-	32.88	5.24	34.67
AV	5.2404G	93.19	Inf	-Inf	89.74	3	Vertical	258	2.64	-	32.88	5.24	34.67
PK	5.3796G	58.13	74.00	-15.87	54.31	3	Vertical	258	2.64	-	33.16	5.38	34.72
AV	5.3636G	45.61	54.00	-8.39	41.83	3	Vertical	258	2.64	-	33.13	5.36	34.71

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

30/10/2020



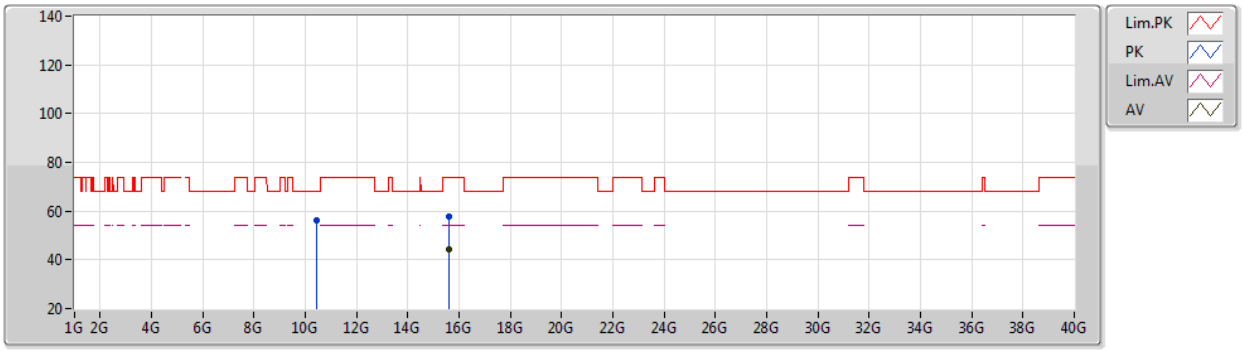
EUT Z_2TX
Setting 15.5
01-A-J-7-10

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	5.1484G	66.52	74.00	-7.48	63.28	3	Horizontal	244	1.04	-	32.70	5.17	34.63
AV	5.142G	51.07	54.00	-2.93	47.81	3	Horizontal	244	1.04	-	32.72	5.17	34.63
PK	5.2452G	98.30	Inf	-Inf	94.83	3	Horizontal	244	1.04	-	32.89	5.25	34.67
AV	5.2044G	87.83	Inf	-Inf	84.47	3	Horizontal	244	1.04	-	32.81	5.20	34.65
PK	5.4052G	57.90	74.00	-16.10	53.99	3	Horizontal	244	1.04	-	33.24	5.40	34.73
AV	5.3636G	45.25	54.00	-8.75	41.47	3	Horizontal	244	1.04	-	33.13	5.36	34.71

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

30/10/2020



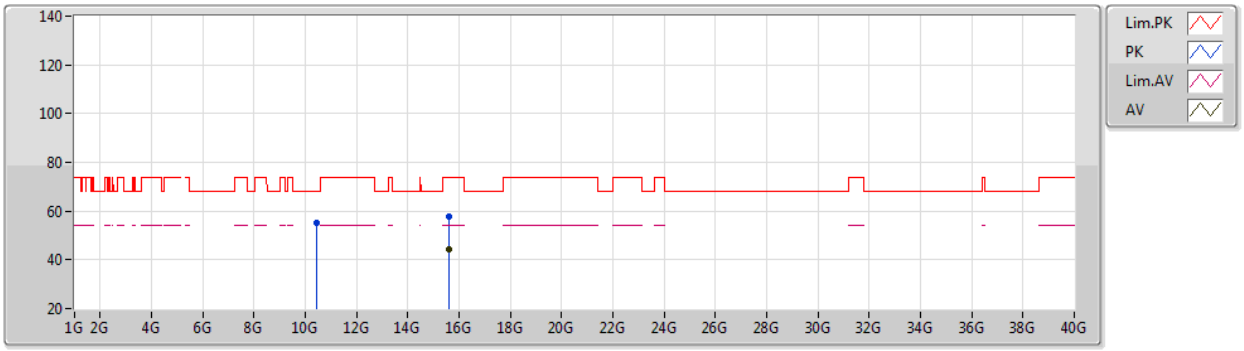
EUT Z_2TX
Setting 15.5
01-A-J-7

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	10.41984G	56.40	68.20	-11.80	45.94	3	Vertical	292	2.33	-	38.34	7.45	35.33
PK	15.63001G	57.78	74.00	-16.22	45.40	3	Vertical	126	1.23	-	38.06	9.23	34.91
AV	15.63013G	44.50	54.00	-9.50	32.12	3	Vertical	126	1.23	-	38.06	9.23	34.91

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

30/10/2020



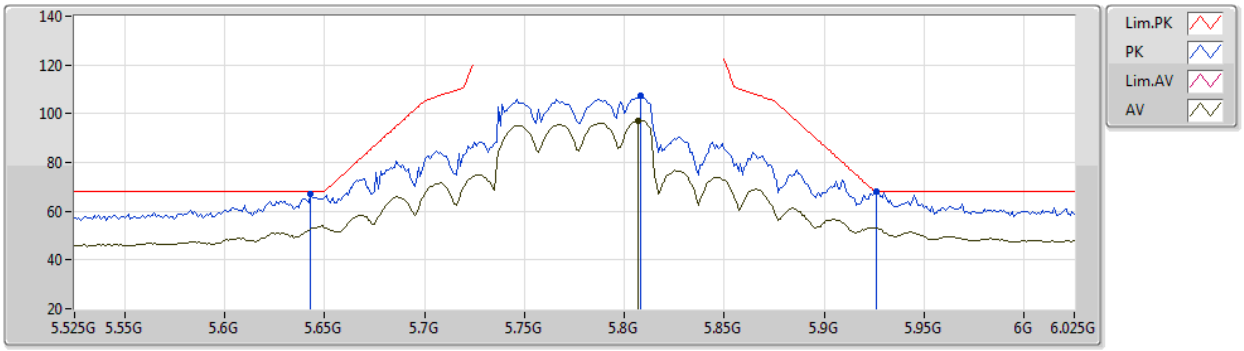
EUT Z_2TX
Setting 15.5
01-A-J-7

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	10.41986G	55.23	68.20	-12.97	44.77	3	Horizontal	290	2.33	-	38.34	7.45	35.33
PK	15.62955G	57.78	74.00	-16.22	45.40	3	Horizontal	315	1.81	-	38.06	9.23	34.91
AV	15.62926G	44.40	54.00	-9.60	32.02	3	Horizontal	315	1.81	-	38.06	9.23	34.91

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

30/10/2020



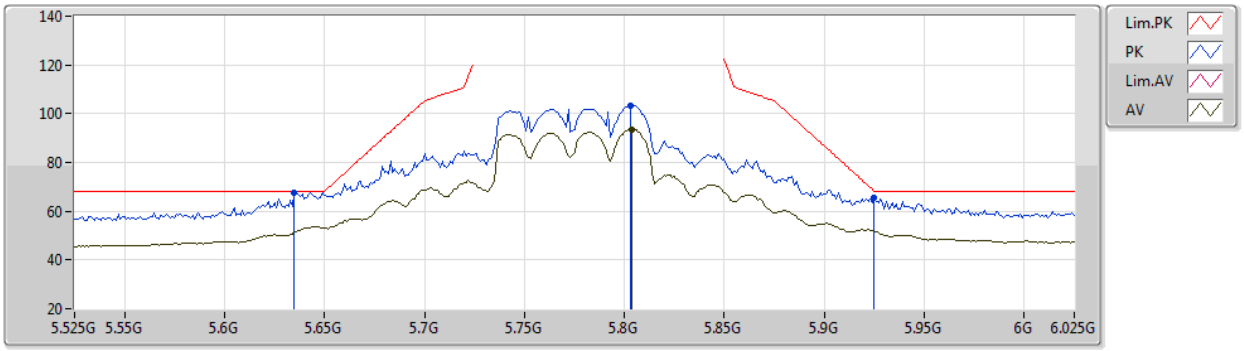
EUT Z_2TX
Setting 20
01-A-J-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.643G	66.96	68.20	-1.24	62.08	3	Vertical	121	2.47	-	34.17	5.42	34.71
PK	5.808G	107.18	Inf	-Inf	101.96	3	Vertical	121	2.47	-	34.36	5.50	34.64
AV	5.807G	97.31	Inf	-Inf	92.09	3	Vertical	121	2.47	-	34.36	5.50	34.64
PK	5.926G	67.98	68.20	-0.22	62.07	3	Vertical	121	2.47	-	35.01	5.50	34.60

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

30/10/2020



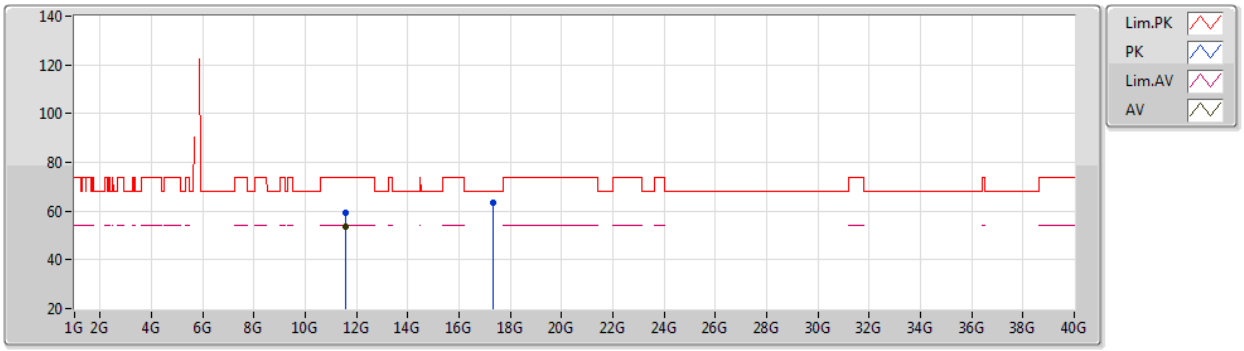
EUT Z_2TX
Setting 20
01-A-J-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.635G	67.59	68.20	-0.61	62.74	3	Horizontal	67	2.67	-	34.14	5.42	34.71
PK	5.803G	103.40	Inf	-Inf	98.22	3	Horizontal	67	2.67	-	34.32	5.50	34.64
AV	5.804G	93.68	Inf	-Inf	88.49	3	Horizontal	67	2.67	-	34.33	5.50	34.64
PK	5.925G	65.77	68.20	-2.43	59.87	3	Horizontal	67	2.67	-	35.00	5.50	34.60

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

30/10/2020



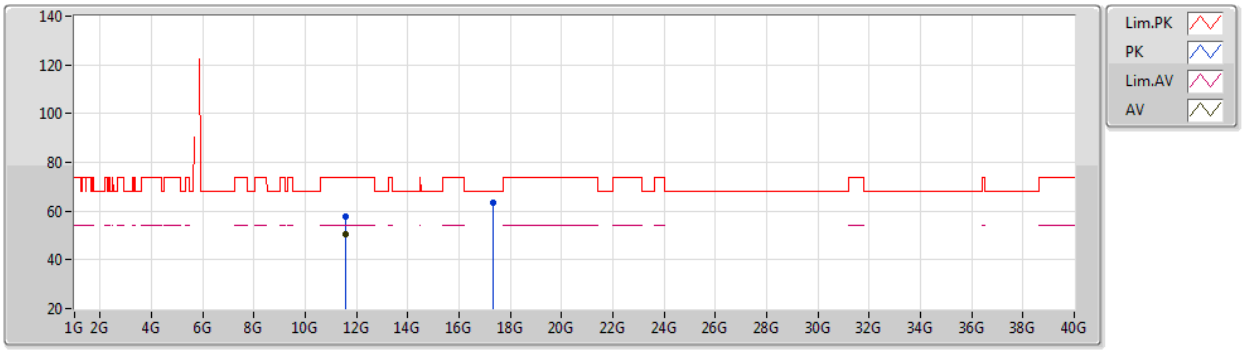
EUT Z_2TX
Setting 20
01-A-J-7

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	11.55001G	59.16	74.00	-14.84	47.72	3	Vertical	357	2.26	-	38.45	7.84	34.85
AV	11.54992G	53.41	54.00	-0.59	41.97	3	Vertical	357	2.26	-	38.45	7.84	34.85
PK	17.3166G	63.68	68.20	-4.52	45.97	3	Vertical	138	3.00	-	41.87	9.76	33.92

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

30/10/2020



EUT Z_2TX
Setting 20
01-A-J-7

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	11.5499G	57.59	74.00	-16.41	46.15	3	Horizontal	326	2.26	-	38.45	7.84	34.85
AV	11.54992G	50.27	54.00	-3.73	38.83	3	Horizontal	326	2.26	-	38.45	7.84	34.85
PK	17.32072G	63.64	68.20	-4.56	45.92	3	Horizontal	240	1.79	-	41.88	9.76	33.92