FCC Test Report

Equipment	:	**Mobile Terminal System**
Brand Name	:	**POSIFLEX**
Model No.	:	**MT-4XXXXXX(where X can be 0-9, A-Z,blank or symbol)**
FCC ID	:	**V93MT4300W**
Standard	:	**47 CFR FCC Part 15.407**
Operating Band	:	**5150 MHz – 5250 MHz**
Applicant	:	**POSIFLEX TECHNOLOGY, INC. No.23, Datong St., Tucheng Dist., New Taipei City 23679, Taiwan (R.O.C.)**
Manufacturer	:	**POSIFLEX TECHNOLOGY, INC. No.23, Datong St., Tucheng Dist., New Taipei City 23679, Taiwan (R.O.C.)**
Function	:	**☐ Outdoor; ☐ Indoor; ☐ Fixed P2P ☒ Client**

The product sample received on Mar. 06, 2017 and completely tested on Oct. 11, 2017. We, SPORTON, 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., the test report shall not be reproduced except in full.

Phoenix Chen / Assistant Manager

Testing Laboratory
1190

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PHOTOGRAPHS OF EUT V01

Summary of Test Result

Conformance Test Specifications			
Report Clause	**Ref. Std. Clause**	**Description**	**Result**
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.207	AC Power-line Conducted Emissions	Complied
3.2	15.407(a)	Emission Bandwidth	Complied
3.3	15.407(a)	Maximum Conducted Output Power	Complied
3.4	15.407(a)	Peak Power Spectral Density	Complied
3.5	15.407(b)	Unwanted Emissions	Complied
3.6	15.407(g)	Frequency Stability	Complied

Revision History

Report No.	Version	Description	Issued Date
FR4O0804-02AN	Rev. 01	Initial issue of report	Oct. 25, 2017

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]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5150-5250	ac (VHT80)	5210	42 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX
5.15-5.25GHz	802.11ac VHT20	20	1TX
5.15-5.25GHz	802.11ac VHT40	40	1TX
5.15-5.25GHz	802.11ac VHT80	80	1TX

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)
1	1	Unictron	HE014	PCB Antenna	I-PEX	-0.4

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter			
RF Chip	AP6255			
Beamforming Function	☐	With beamforming	☒	Without beamforming

Type of EUT		
☒	Stand-alone	
☐	Combined (EUT where the radio part is fully integrated within another device)	
	Combined Equipment - Brand Name / Model No.:	…
☐	Plug-in radio (EUT intended for a variety of host systems)	
	Host System - Brand Name / Model No.:	…
☐	Other:	

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.93	0.315	1.32m	1k
802.11ac VHT20	0.929	0.32	1.318m	1k
802.11ac VHT40	0.843	0.742	652.5u	3k
802.11ac VHT80	0.7	1.549	305u	10k

1.2 Testing Applied 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
- KDB 789033 D02 v01r04
-

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
Test site Designation No. TW1190 with FCC.						
☐	JHUBEI	ADD	:	No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)		
		TEL	:	886-3-656-9065	FAX :	886-3-656-9085
Test site Designation No. TW0006 with FCC.						

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Ryan	24.5°C / 65%	11/Oct/2017
Radiated	03CH02-HY	Andy	23.5°C / 55%	03/Aug/2017
AC Conduction	CO04-HY	Eric	23.5°C / 55%	25/Sep/2017

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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)	3.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	2.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	2.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	2.9 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V
Freq. Stability	Abbreviation	Remark
-40°C	-	-
-30°C	-	-
-20°C	-	-
-10°C	-	-
0°C	-	-
10°C	-	-
20°C	-	-
30°C	-	-
40°C	-	-
138V	-	-
120V	-	-
102V	-	-

2.2 Test Channel Mode

Test Software	Dos

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	54
5200MHz	54
5240MHz	54
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5180MHz	56
5200MHz	56
5240MHz	55
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5190MHz	58
5230MHz	58
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5210MHz	60

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	Adapter mode

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz
2	Bluetooth+WLAN 5GHz
Refer to Sporton Test Report No.: FA4O0804-02 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.4 Accessories

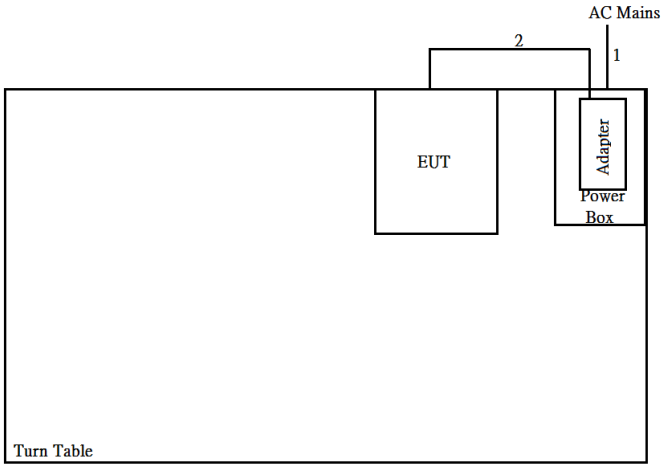
Accessories				
AC Adapter	Brand Name	AOEM	Model Name	ADS0248T-W050300
	Power Rating	I/P: 100- 240 V~50-60Hz 0.6 A, O/P: 5 V⎓3.0 A		
	Power Cord	1.19 meter, non-shielded cable, w/o ferrite core		
USB Cable	Brand Name	-	Model Name	-
	Signal Line	0.06 meter, non-shielded cable		
Rechargeable Li-ion Polymer Battery	Brand Name	McNair	Model Name	MLP3872134
	Power Rating	3.7 V⎓4800 mAh 17.76Wh		
Rechargeable Li-ion Battery Pack	Brand Name	POSIFLEX	Model Name	RB-3000
	Power Rating	3.7 V⎓5000 mAh 18.5Wh		

2.5 Support Equipment

Support Equipment – RF Conducted				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	AC Source	G.W	APS-9102	N/A

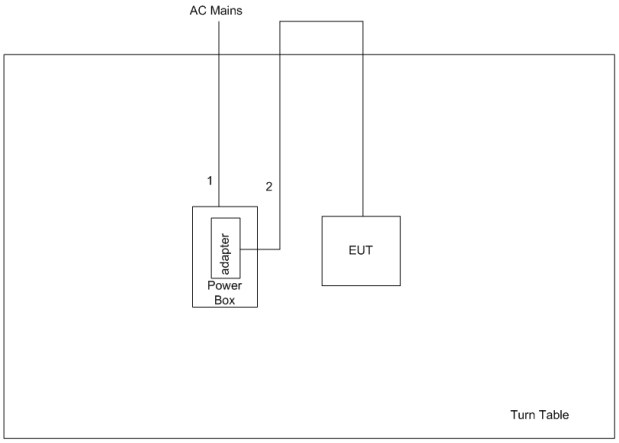
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8	-
2	DC Power line	No	1.19	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8	-
2	DC Power line	No	1.19	-

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

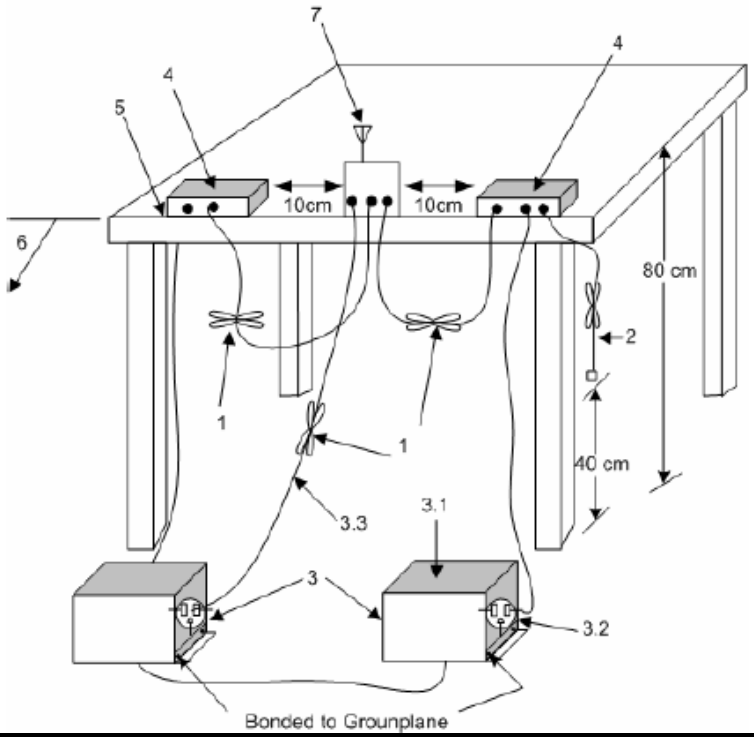
Refer a test equipment and calibration data table in this test report.

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



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☐	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.

3.2.2 Measuring Instruments

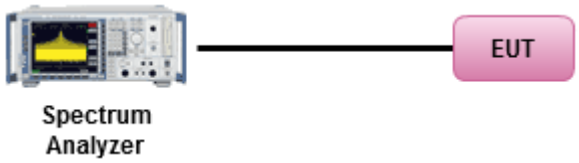
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method		
▪	For the emission bandwidth shall be measured using one of the options below:	
	☒	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
	☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
	☐	Refer as IC RSS-Gen, clause 6.6 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.
P_{Out} = maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

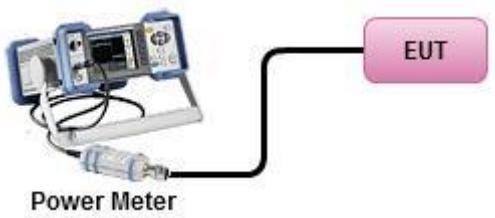
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Conducted Output Power	
	Duty cycle ≥ 98%
	☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle < 98%
	☐ Refer as 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 KDB 789033, clause E Method PM (using an RF average power meter).
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as 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.
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.	

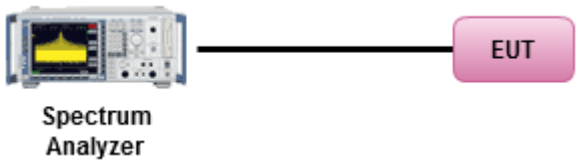
3.4.2 Measuring Instruments

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 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%	
	☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
	Duty cycle < 98%	
	☒ Refer as 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:	
		▪ Measure and sum the spectra across the outputs. Refer as 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.
	▪	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 Radiated 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.

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	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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).

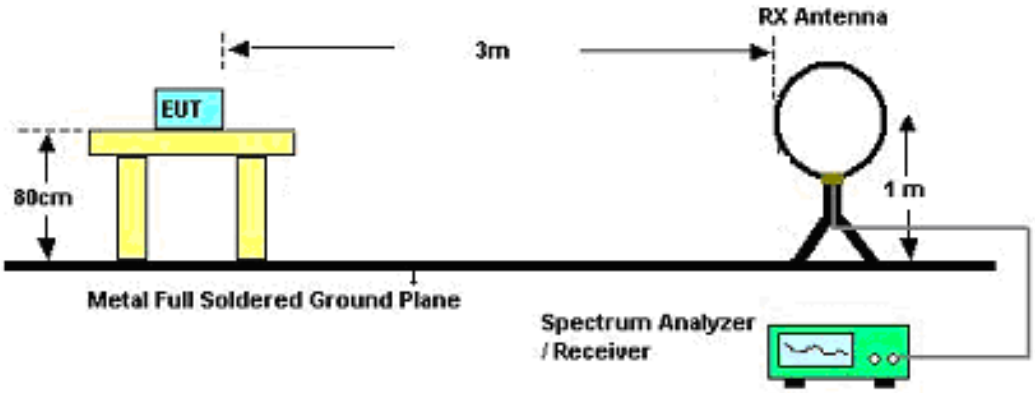
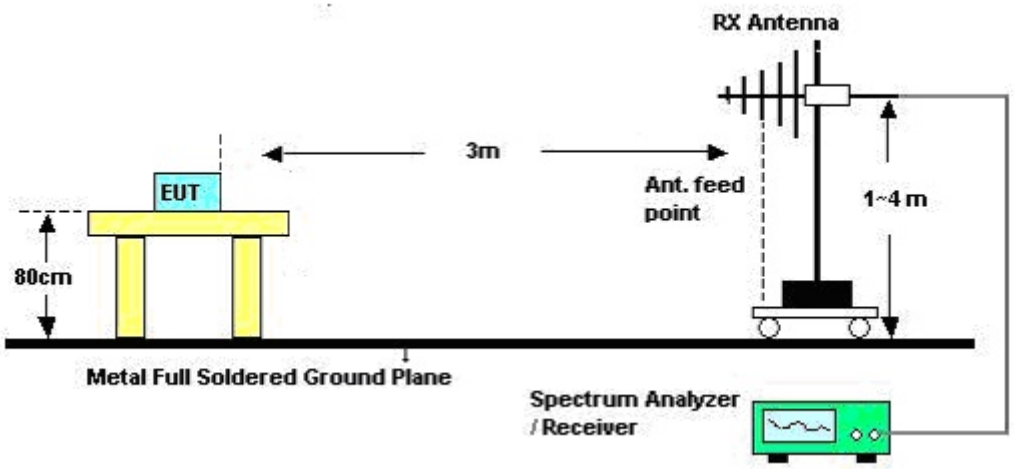
3.5.2 Measuring Instruments

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

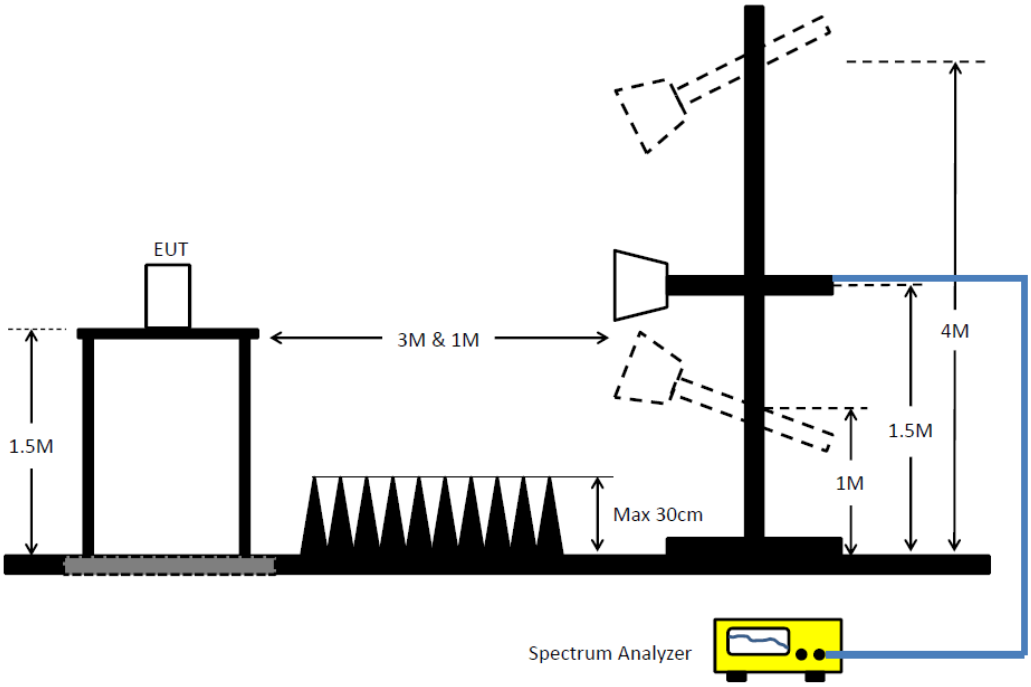
3.5.3 Test Procedures

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 KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.	
	▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.	
		☒ Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
		☒ Refer as KDB 789033, clause G)5) (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 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Frequency Stability

3.6.1 Frequency Stability Limit

Frequency Stability Limit
UNII Devices
▪ In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
IEEE Std. 802.11
▪ The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band.

3.6.2 Measuring Instruments

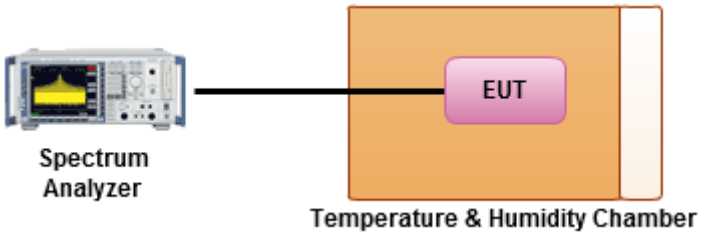
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method		
▪	Refer as ANSI C63.10, clause 6.8 for frequency stability tests	
	▪	Frequency stability with respect to ambient temperature
	▪	Frequency stability when varying supply voltage

3.6.4 Test Setup

Frequency Stability



3.6.5 Test Result of Frequency Stability

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9KHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	15/Nov/2016	14/Nov/2017
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	24/Oct/2016	23/Oct/2017
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	R&S	ESH3-Z2	100921	10 kHz ~ 30 MHz	21/Oct/2016	20/Oct/2017

NCR : Non-Calibration Require

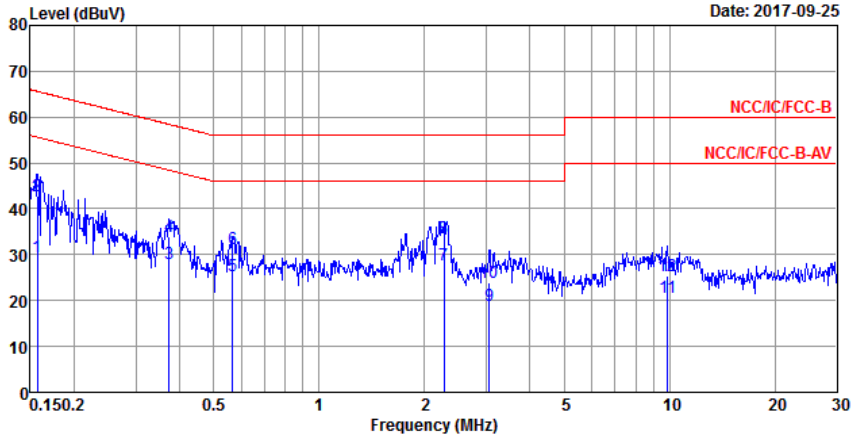
Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSP40	100593	9KHz - 40GHz	26/Oct/2016	25/Oct/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz-1GHz	21/Oct/2016	20/Oct/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz	12/Dec/2016	11/Dec/2017
Amplifier	Agilent	8447D	2944A11149	100KHz-1.3GHz	29/Jun/2017	28/Jun/2018
Amplifier	Agilent	8449B	3008A02373	1GHz-26.5GHz	02/Sep/2016	01/Sep/2017
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D 01531	1GHz-18GHz	11/May/2017	10/May/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz-40GHz	06/Feb/2017	05/Feb/2018
Bilog Antenna	SCHAFFNER	CBL6112B	2723	30MHz-1GHz	01/Oct/2016	30/Sep/2017
Microwave Preamplifier with6dB Attenuator	EMC INSTRUMENTS	EMC184045B & PE7005-	1840917	18GHz-40GHz	24/Jun/2016	23/Aug/2017
Loop Antenna	TESEQ	HLA 6120	31244	9KHz-30MHz	02/Mar/2017	01/Mar/2018
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	26/Jan/2017	25/Jan/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Jan/2017	25/Jan/2018
Receiver	R&S	ESU-26	100422/026	20Hz~26.5GHz	21/Sep/2016	20/Sep/2017

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	30/Dec/2016	29/Dec/2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
Temp. and Humidity Chamber	Giant Force	GTH-225-40-CP-AR	MAA1611-005	-40 ~ 100℃	21/Nov/2017	20/Nov/2018
RF Cable-1.5m	HUBER+SUHNER	SUCOFLEX_104	MY12582/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018

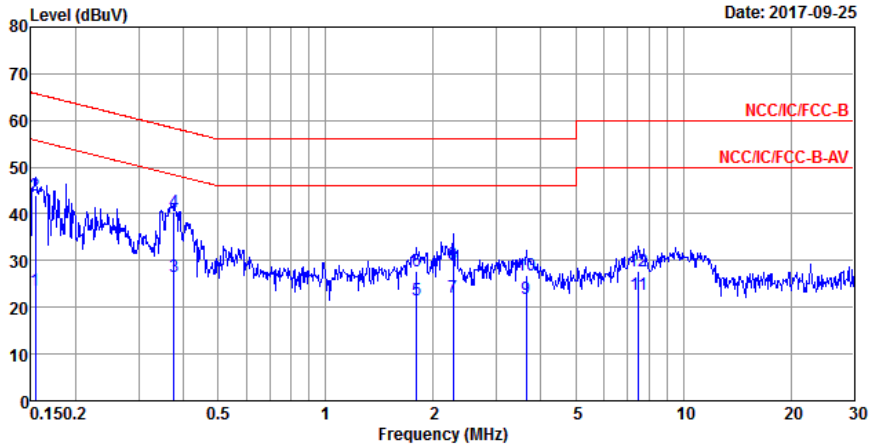
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	Adapter mode		



		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.15733	29.43	-26.17	55.60	19.59	9.61	0.23	Average
2		0.15733	42.77	-22.83	65.60	32.93	9.61	0.23	QP
3		0.37314	28.09	-20.34	48.43	18.34	9.63	0.12	Average
4		0.37314	33.83	-24.60	58.43	24.08	9.63	0.12	QP
5		0.56709	25.48	-20.52	46.00	15.77	9.61	0.10	Average
6		0.56709	31.23	-24.77	56.00	21.52	9.61	0.10	QP
7	MAX	2.27258	27.67	-18.33	46.00	17.75	9.66	0.26	Average
8		2.27258	33.75	-22.25	56.00	23.83	9.66	0.26	QP
9		3.05758	18.76	-27.24	46.00	8.89	9.69	0.18	Average
10		3.05758	24.05	-31.95	56.00	14.18	9.69	0.18	QP
11		9.86064	20.76	-29.24	50.00	10.82	9.74	0.20	Average
12		9.86064	25.34	-34.66	60.00	15.40	9.74	0.20	QP

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	Adapter mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15403	23.70	-32.08	55.78	13.82	9.66	0.22	Average
2	0.15403	43.86	-21.92	65.78	33.98	9.66	0.22	QP
3	0.37711	26.70	-21.64	48.34	16.90	9.68	0.12	Average
4 MAX	0.37711	40.51	-17.83	58.34	30.71	9.68	0.12	QP
5	1.80001	21.54	-24.46	46.00	11.50	9.77	0.27	Average
6	1.80001	27.83	-28.17	56.00	17.79	9.77	0.27	QP
7	2.27258	22.13	-23.87	46.00	12.08	9.79	0.26	Average
8	2.27258	29.21	-26.79	56.00	19.16	9.79	0.26	QP
9	3.64176	21.95	-24.05	46.00	12.05	9.77	0.13	Average
10	3.64176	26.91	-29.09	56.00	17.01	9.77	0.13	QP
11	7.48603	22.79	-27.21	50.00	12.87	9.75	0.17	Average
12	7.48603	27.88	-32.12	60.00	17.96	9.75	0.17	QP

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.575M	16.542M	16M5D1D	21.4M	16.517M
802.11ac VHT20_Nss1,(MCS0)_1TX	21.7M	17.691M	17M7D1D	21.525M	17.666M
802.11ac VHT40_Nss1,(MCS0)_1TX	40.2M	36.132M	36M1D1D	39.9M	36.082M
802.11ac VHT80_Nss1,(MCS0)_1TX	81.3M	75.662M	75M7D1D	81.3M	75.662M

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

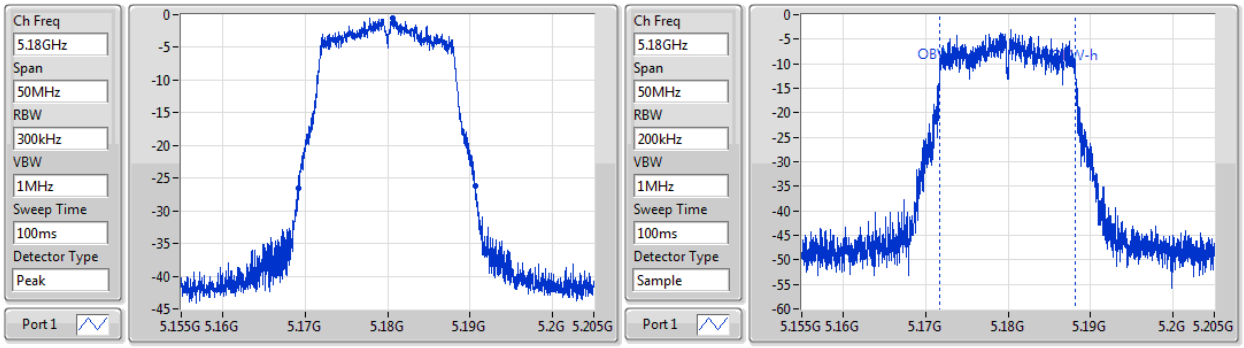
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	21.5M	16.517M
5200MHz_TnomVnom	Pass	Inf	21.4M	16.542M
5240MHz_TnomVnom	Pass	Inf	21.575M	16.517M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	21.7M	17.666M
5200MHz_TnomVnom	Pass	Inf	21.6M	17.666M
5240MHz_TnomVnom	Pass	Inf	21.525M	17.691M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz_TnomVnom	Pass	Inf	39.9M	36.132M
5230MHz_TnomVnom	Pass	Inf	40.2M	36.082M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz_TnomVnom	Pass	Inf	81.3M	75.662M

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)_1TX — EBW

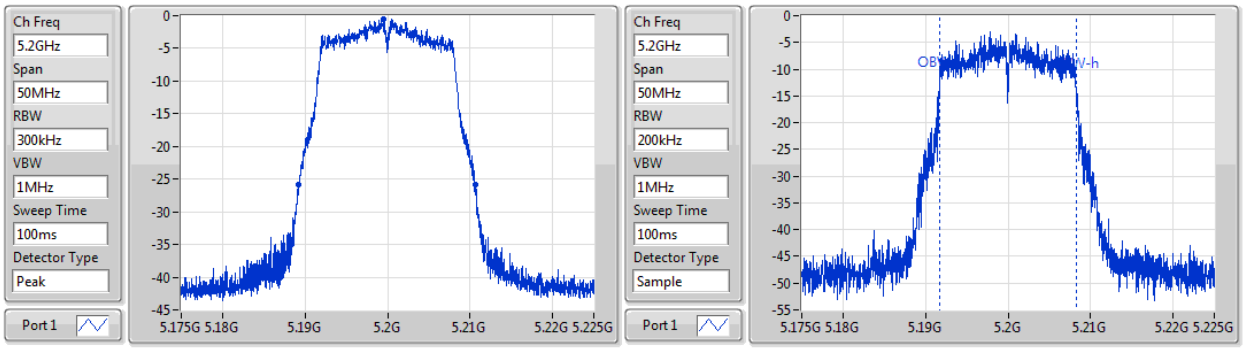
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.5M	5.16915G	5.19065G	16.517M	5.171679G	5.188196G	Inf	1

802.11a_Nss1,(6Mbps)_1TX — EBW

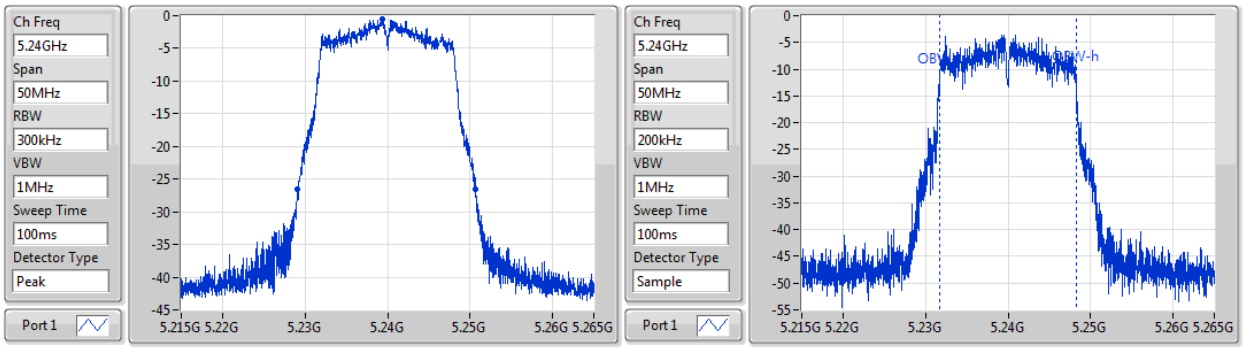
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.4M	5.189225G	5.210625G	16.542M	5.191704G	5.208246G	Inf	1

802.11a_Nss1,(6Mbps)_1TX — EBW

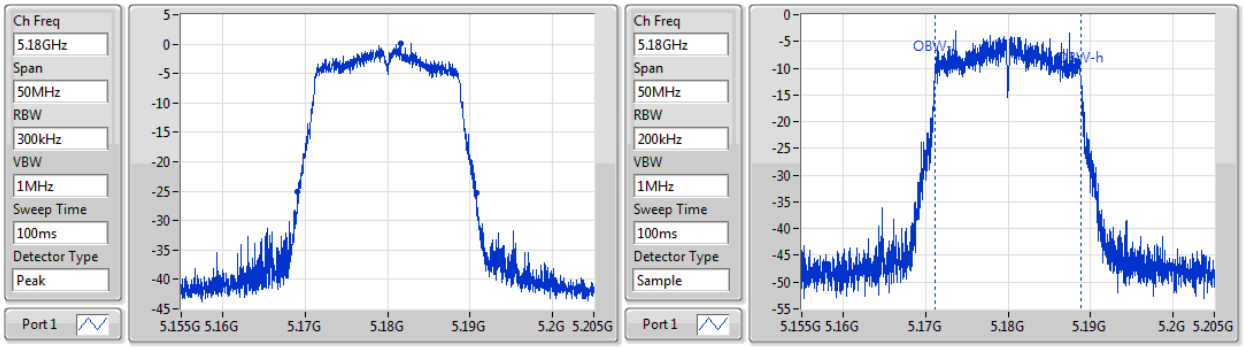
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.575M	5.2291G	5.250675G	16.517M	5.231704G	5.248221G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX — EBW

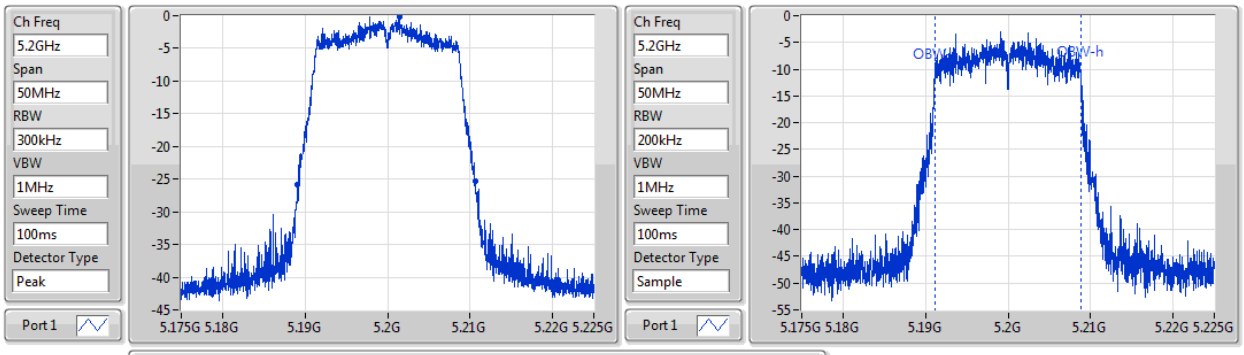
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.7M	5.169125G	5.190825G	17.666M	5.171129G	5.188796G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX — EBW

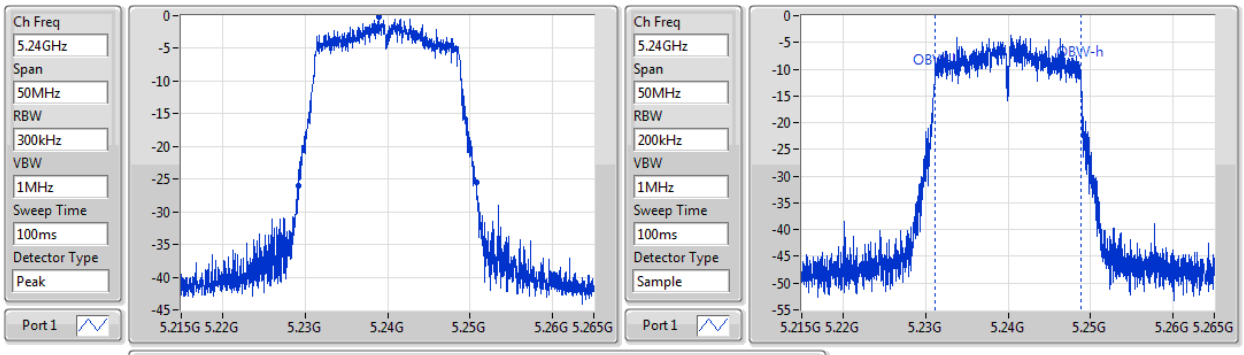
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.6M	5.189075G	5.210675G	17.666M	5.191129G	5.208796G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX — EBW

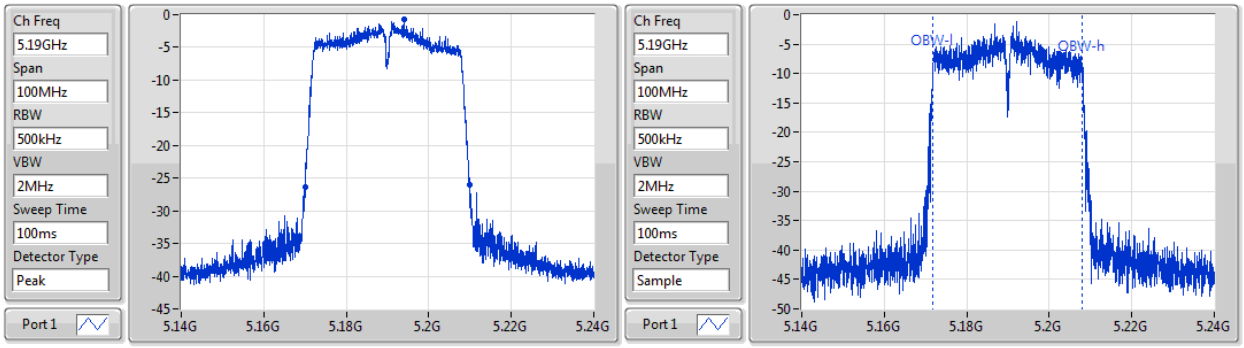
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.525M	5.2292G	5.250725G	17.691M	5.231104G	5.248796G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX — EBW

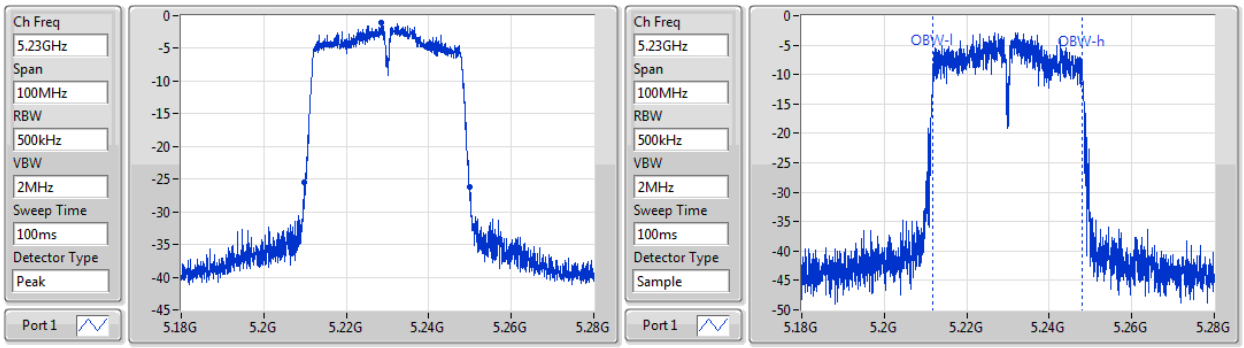
5190MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.9M	5.16995G	5.20985G	36.132M	5.171859G	5.207991G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX — EBW

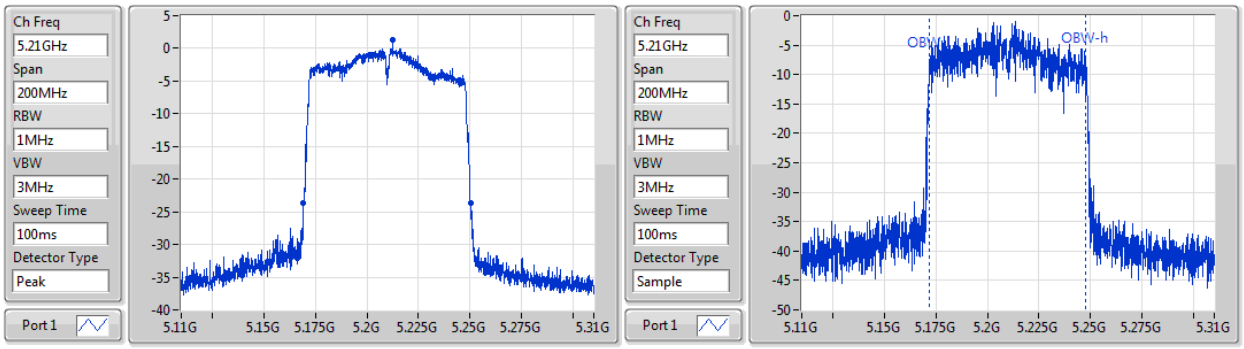
5230MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.2M	5.20985G	5.25005G	36.082M	5.211859G	5.247941G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX — EBW

5210MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.3M	5.1692G	5.2505G	75.662M	5.172019G	5.247681G	Inf	1

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	7.41	0.00551	7.01	0.00502
802.11ac VHT20_Nss1,(MCS0)_1TX	7.47	0.00558	7.07	0.00509
802.11ac VHT40_Nss1,(MCS0)_1TX	7.43	0.00553	7.03	0.00505
802.11ac VHT80_Nss1,(MCS0)_1TX	7.42	0.00552	7.02	0.00504

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	-0.40	7.41	7.41	23.98	7.01	30.00
5200MHz_TnomVnom	Pass	-0.40	7.33	7.33	23.98	6.93	30.00
5240MHz_TnomVnom	Pass	-0.40	7.34	7.34	23.98	6.94	30.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	-0.40	7.41	7.41	23.98	7.01	30.00
5200MHz_TnomVnom	Pass	-0.40	7.47	7.47	23.98	7.07	30.00
5240MHz_TnomVnom	Pass	-0.40	7.41	7.41	23.98	7.01	30.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	-0.40	7.43	7.43	23.98	7.03	30.00
5230MHz_TnomVnom	Pass	-0.40	7.41	7.41	23.98	7.01	30.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	-0.40	7.42	7.42	23.98	7.02	30.00

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

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	-3.80	-4.20
802.11ac VHT20_Nss1,(MCS0)_1TX	-4.01	-4.41
802.11ac VHT40_Nss1,(MCS0)_1TX	-6.99	-7.39
802.11ac VHT80_Nss1,(MCS0)_1TX	-9.23	-9.63

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

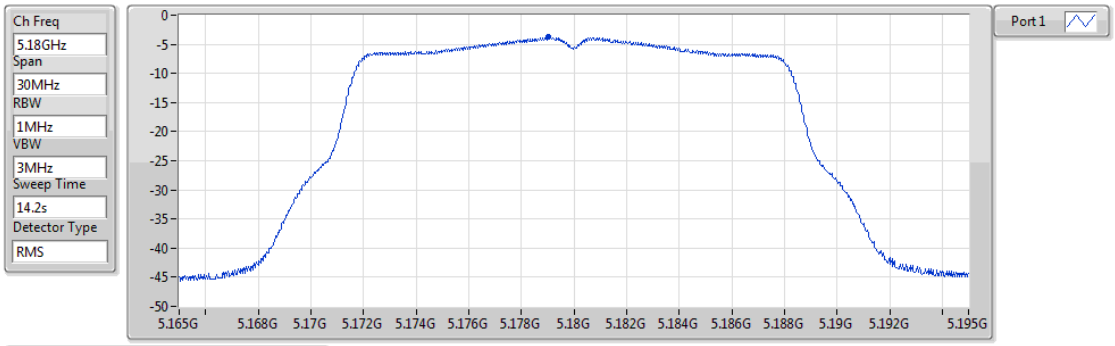
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	-0.40	-3.80	-3.80	11.00	-4.20	Inf
5200MHz_TnomVnom	Pass	-0.40	-4.04	-4.04	11.00	-4.44	Inf
5240MHz_TnomVnom	Pass	-0.40	-4.06	-4.06	11.00	-4.46	Inf
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	-0.40	-4.01	-4.01	11.00	-4.41	Inf
5200MHz_TnomVnom	Pass	-0.40	-4.31	-4.31	11.00	-4.71	Inf
5240MHz_TnomVnom	Pass	-0.40	-4.40	-4.40	11.00	-4.80	Inf
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	-0.40	-7.19	-7.19	11.00	-7.59	Inf
5230MHz_TnomVnom	Pass	-0.40	-6.99	-6.99	11.00	-7.39	Inf
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	-0.40	-9.23	-9.23	11.00	-9.63	Inf

DG = Directional Gain; **RBW** = 500kHz 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 Xpower density;

802.11a_Nss1,(6Mbps)_1TX PSD

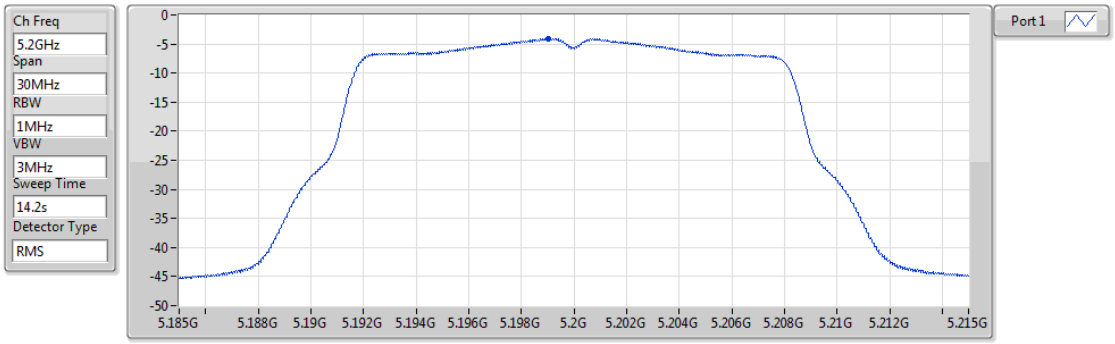
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.80	-3.80	-3.80

802.11a_Nss1,(6Mbps)_1TX PSD

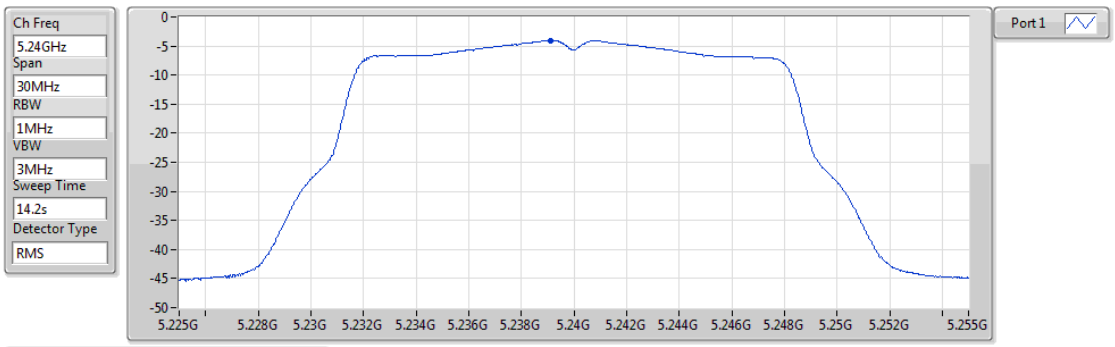
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.04	-4.04	-4.04

802.11a_Nss1,(6Mbps)_1TX PSD

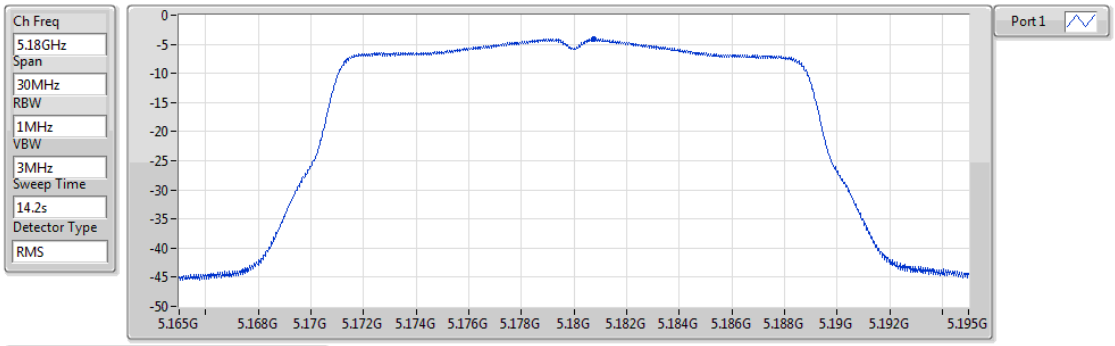
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.06	-4.06	-4.06

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

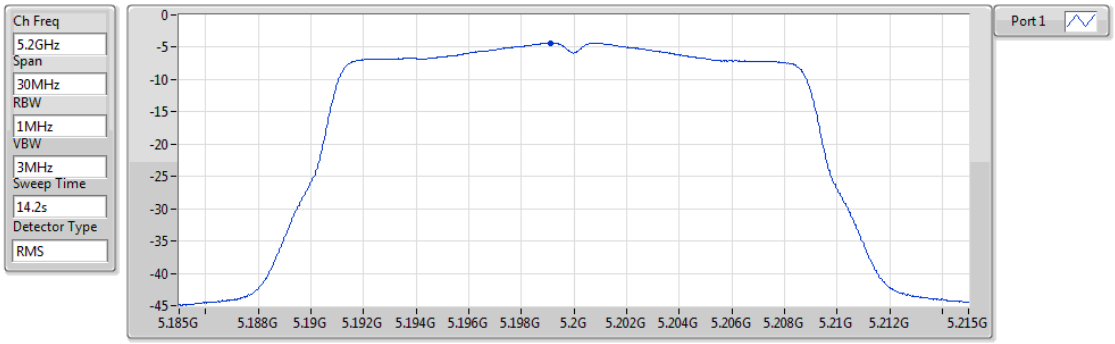
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.01	-4.01	-4.01

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

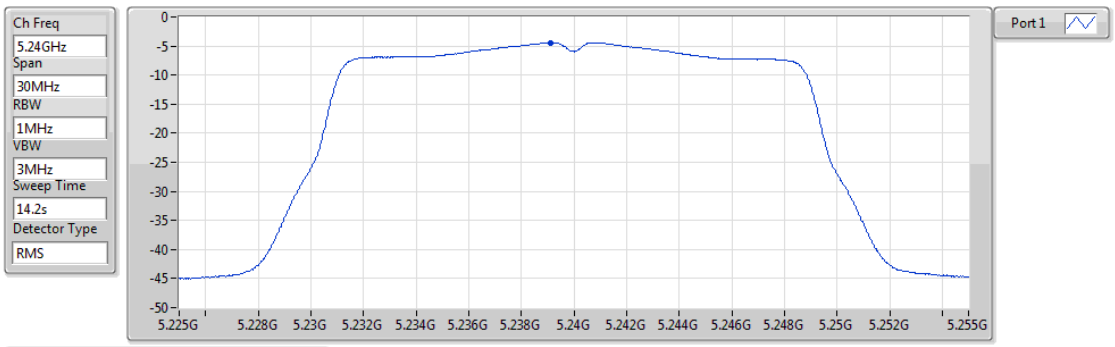
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.31	-4.31	-4.31

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

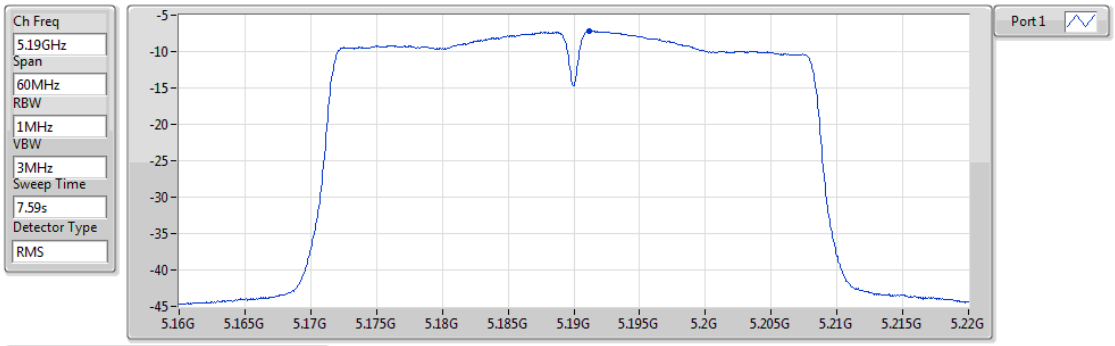
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.40	-4.40	-4.40

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

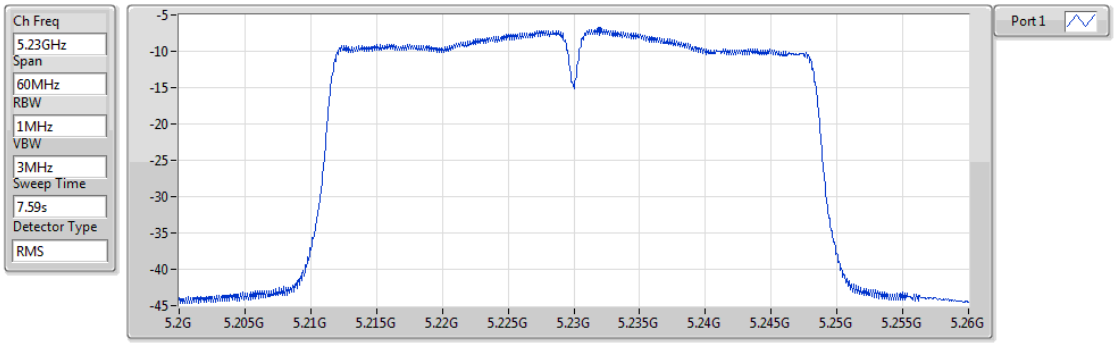
5190MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.19	-7.19	-7.19

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

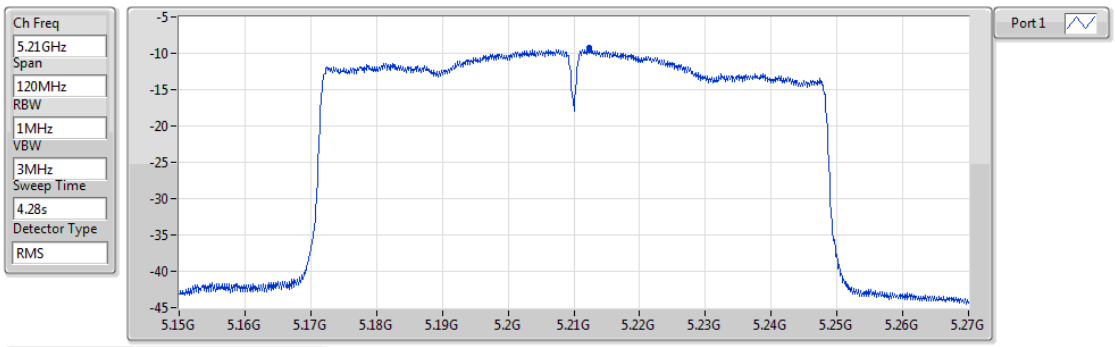
5230MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.99	-6.99	-6.99

802.11ac VHT80_Nss1,(MCS0)_1TX PSD

5210MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.23	-9.23	-9.23

Summary

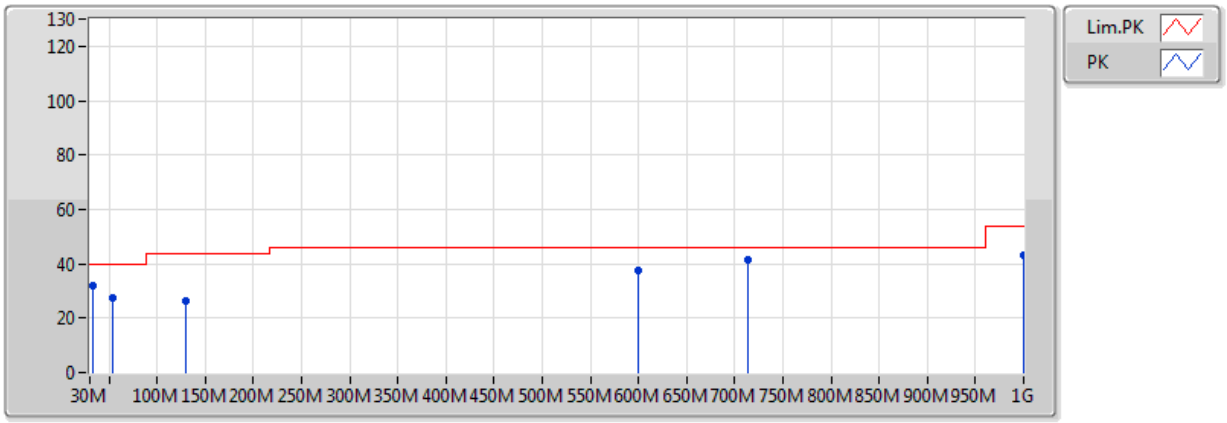
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
VHT80_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-	-
5.15-5.25GHz	Pass	PK	712.88M	41.57	46.00	-4.43	-0.08	3	Vertical	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
VHT80_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	PK	33.88M	31.31	40.00	-8.69	-6.70	3	Horizontal	360	1.00	-
5210MHz	Pass	PK	128.94M	24.87	43.50	-18.63	-9.02	3	Horizontal	360	1.00	-
5210MHz	Pass	PK	198.78M	23.69	43.50	-19.81	-10.88	3	Horizontal	360	1.00	-
5210MHz	Pass	PK	600.36M	36.94	46.00	-9.06	-1.23	3	Horizontal	360	1.00	-
5210MHz	Pass	PK	703.18M	40.44	46.00	-5.56	-0.28	3	Horizontal	360	1.00	-
5210MHz	Pass	PK	800.18M	40.09	46.00	-5.91	1.12	3	Horizontal	360	1.00	-
5210MHz	Pass	PK	33.88M	32.02	40.00	-7.98	-6.70	3	Vertical	0	1.00	-
5210MHz	Pass	PK	53.28M	27.59	40.00	-12.41	-13.97	3	Vertical	0	1.00	-
5210MHz	Pass	PK	128.94M	26.08	43.50	-17.42	-9.02	3	Vertical	0	1.00	-
5210MHz	Pass	PK	600.36M	37.51	46.00	-8.49	-1.23	3	Vertical	0	1.00	-
5210MHz	Pass	PK	712.88M	41.57	46.00	-4.43	-0.08	3	Vertical	0	1.00	-
5210MHz	Pass	PK	999.999M	42.94	54.00	-11.06	3.80	3	Vertical	0	1.00	-

802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_Adapter

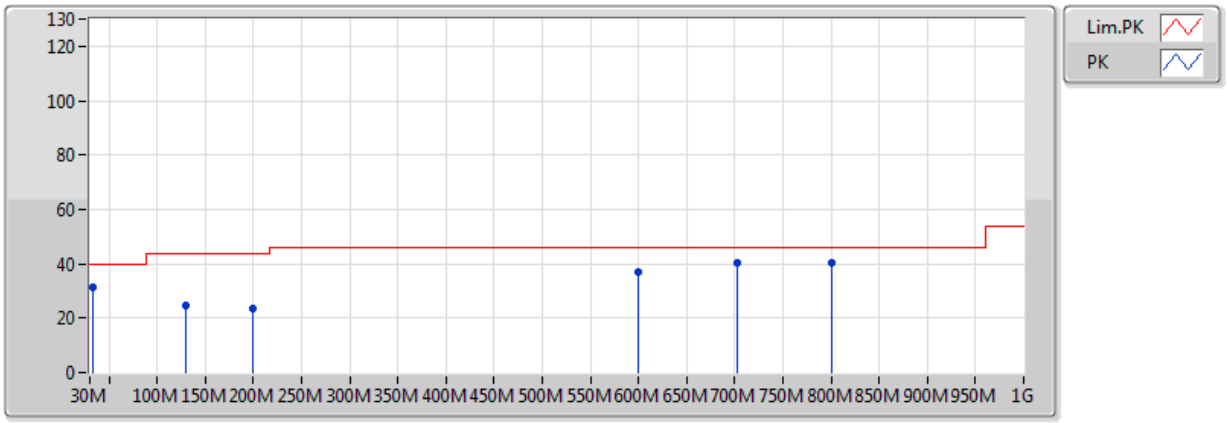


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	33.88M	32.02	40.00	-7.98	-6.70	3	Vertical	0	1.00	-	38.72	20.36	0.74	27.80
PK	53.28M	27.59	40.00	-12.41	-13.97	3	Vertical	0	1.00	-	41.56	12.58	1.03	27.57
PK	128.94M	26.08	43.50	-17.42	-9.02	3	Vertical	0	1.00	-	35.10	16.99	1.70	27.70
PK	600.36M	37.51	46.00	-8.49	-1.23	3	Vertical	0	1.00	-	38.74	23.67	3.66	28.56
PK	712.88M	41.57	46.00	-4.43	-0.08	3	Vertical	0	1.00	-	41.65	24.15	4.12	28.34
PK	999.999M	42.94	54.00	-11.06	3.80	3	Vertical	0	1.00	-	39.14	26.05	4.99	27.24

802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_Adapter



EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	33.88M	31.31	40.00	-8.69	-6.70	3	Horizontal	360	1.00	-	38.01	20.36	0.74	27.80
PK	128.94M	24.87	43.50	-18.63	-9.02	3	Horizontal	360	1.00	-	33.89	16.99	1.70	27.70
PK	198.78M	23.69	43.50	-19.81	-10.88	3	Horizontal	360	1.00	-	34.57	14.36	2.20	27.44
PK	600.36M	36.94	46.00	-9.06	-1.23	3	Horizontal	360	1.00	-	38.17	23.67	3.66	28.56
PK	703.18M	40.44	46.00	-5.56	-0.28	3	Horizontal	360	1.00	-	40.72	23.99	4.10	28.37
PK	800.18M	40.09	46.00	-5.91	1.12	3	Horizontal	360	1.00	-	38.97	24.82	4.37	28.07

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
5.15-5.25GHz	Pass	AV	5.149995G	53.63	54.00	-0.37	2.90	3	Vertical	339	3.67	-

Result

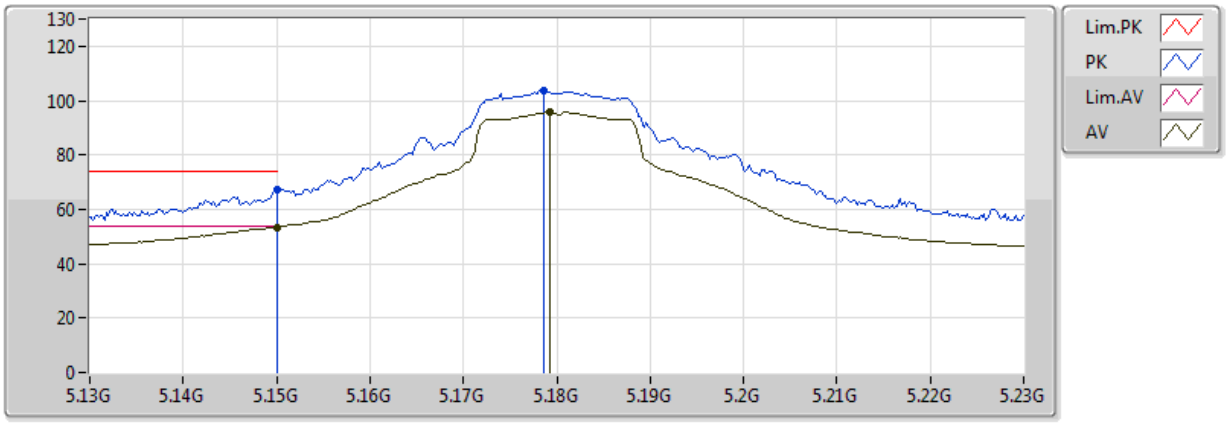
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.149995G	51.16	54.00	-2.84	2.90	3	Horizontal	340	1.09	-
5180MHz	Pass	AV	5.1792G	94.32	Inf	-Inf	2.93	3	Horizontal	340	1.09	-
5180MHz	Pass	PK	5.1498G	64.24	74.00	-9.76	2.90	3	Horizontal	340	1.09	-
5180MHz	Pass	PK	5.1786G	102.18	Inf	-Inf	2.93	3	Horizontal	340	1.09	-
5180MHz	Pass	AV	5.149995G	53.51	54.00	-0.49	2.90	3	Vertical	332	3.69	-
5180MHz	Pass	AV	5.1792G	95.80	Inf	-Inf	2.93	3	Vertical	332	3.69	-
5180MHz	Pass	PK	5.149995G	67.02	74.00	-6.98	2.90	3	Vertical	332	3.69	-
5180MHz	Pass	PK	5.1786G	103.64	Inf	-Inf	2.93	3	Vertical	332	3.69	-
5180MHz	Pass	AV	15.54G	46.58	54.00	-7.42	14.65	3	Horizontal	132	1.50	-
5180MHz	Pass	PK	15.54G	57.60	74.00	-16.40	14.65	3	Horizontal	132	1.50	-
5180MHz	Pass	AV	15.54G	46.02	54.00	-7.98	14.65	3	Vertical	200	1.50	-
5180MHz	Pass	PK	15.54G	58.41	74.00	-15.59	14.65	3	Vertical	200	1.50	-
5200MHz	Pass	AV	5.149995G	49.33	54.00	-4.67	2.90	3	Horizontal	347	3.69	-
5200MHz	Pass	AV	5.1992G	96.58	Inf	-Inf	2.95	3	Horizontal	347	3.69	-
5200MHz	Pass	PK	5.1484G	62.11	74.00	-11.89	2.90	3	Horizontal	347	3.69	-
5200MHz	Pass	PK	5.2016G	106.93	Inf	-Inf	2.95	3	Horizontal	347	3.69	-
5200MHz	Pass	AV	5.149995G	50.35	54.00	-3.65	2.90	3	Vertical	342	3.69	-
5200MHz	Pass	AV	5.1992G	96.94	Inf	-Inf	2.95	3	Vertical	342	3.69	-
5200MHz	Pass	PK	5.1496G	62.83	74.00	-11.17	2.90	3	Vertical	342	3.69	-
5200MHz	Pass	PK	5.2016G	106.87	Inf	-Inf	2.95	3	Vertical	342	3.69	-
5200MHz	Pass	AV	15.6G	47.10	54.00	-6.90	14.43	3	Horizontal	58	1.50	-
5200MHz	Pass	PK	15.6G	58.27	74.00	-15.73	14.43	3	Horizontal	58	1.50	-
5200MHz	Pass	AV	15.6G	45.84	54.00	-8.16	14.43	3	Vertical	302	1.67	-
5200MHz	Pass	PK	15.6G	57.85	74.00	-16.15	14.43	3	Vertical	302	1.67	-
5240MHz	Pass	AV	5.0906G	46.26	54.00	-7.74	2.84	3	Horizontal	292	1.01	-
5240MHz	Pass	AV	5.2394G	94.07	Inf	-Inf	2.99	3	Horizontal	292	1.01	-
5240MHz	Pass	AV	5.3762G	45.49	54.00	-8.51	3.14	3	Horizontal	292	1.01	-
5240MHz	Pass	PK	5.1296G	56.86	74.00	-17.14	2.88	3	Horizontal	292	1.01	-
5240MHz	Pass	PK	5.2418G	103.81	Inf	-Inf	3.00	3	Horizontal	292	1.01	-
5240MHz	Pass	PK	5.3648G	56.82	74.00	-17.18	3.12	3	Horizontal	292	1.01	-
5240MHz	Pass	AV	5.0924G	46.30	54.00	-7.70	2.84	3	Vertical	340	3.61	-
5240MHz	Pass	AV	5.2388G	94.93	Inf	-Inf	2.99	3	Vertical	340	3.61	-
5240MHz	Pass	AV	5.3582G	45.39	54.00	-8.61	3.12	3	Vertical	340	3.61	-
5240MHz	Pass	PK	5.1224G	56.97	74.00	-17.03	2.87	3	Vertical	340	3.61	-
5240MHz	Pass	PK	5.2418G	105.32	Inf	-Inf	3.00	3	Vertical	340	3.61	-
5240MHz	Pass	PK	5.3816G	56.63	74.00	-17.37	3.14	3	Vertical	340	3.61	-
5240MHz	Pass	AV	15.72G	47.05	54.00	-6.95	13.99	3	Horizontal	0	1.50	-
5240MHz	Pass	PK	15.72G	58.75	74.00	-15.25	13.99	3	Horizontal	0	1.50	-
5240MHz	Pass	AV	15.72G	46.93	54.00	-7.07	13.99	3	Vertical	360	1.55	-
5240MHz	Pass	PK	15.72G	58.46	74.00	-15.54	13.99	3	Vertical	360	1.55	-
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.149995G	52.76	54.00	-1.24	2.90	3	Horizontal	287	1.01	-
5180MHz	Pass	AV	5.181G	94.36	Inf	-Inf	2.93	3	Horizontal	287	1.01	-
5180MHz	Pass	PK	5.1482G	65.44	74.00	-8.56	2.90	3	Horizontal	287	1.01	-
5180MHz	Pass	PK	5.1786G	102.53	Inf	-Inf	2.93	3	Horizontal	287	1.01	-
5180MHz	Pass	AV	5.149995G	53.63	54.00	-0.37	2.90	3	Vertical	339	3.67	-
5180MHz	Pass	AV	5.1794G	95.40	Inf	-Inf	2.93	3	Vertical	339	3.67	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5180MHz	Pass	PK	5.1496G	65.89	74.00	-8.11	2.90	3	Vertical	339	3.67	-
5180MHz	Pass	PK	5.181G	103.34	Inf	-Inf	2.93	3	Vertical	339	3.67	-
5180MHz	Pass	AV	15.54G	46.61	54.00	-7.39	14.65	3	Horizontal	0	1.50	-
5180MHz	Pass	PK	15.54G	57.55	74.00	-16.45	14.65	3	Horizontal	0	1.50	-
5180MHz	Pass	AV	15.54G	46.52	54.00	-7.48	14.65	3	Vertical	181	1.50	-
5180MHz	Pass	PK	15.54G	58.14	74.00	-15.86	14.65	3	Vertical	360	1.50	-
5200MHz	Pass	AV	5.149995G	51.02	54.00	-2.98	2.90	3	Horizontal	343	3.69	-
5200MHz	Pass	AV	5.1992G	97.27	Inf	-Inf	2.95	3	Horizontal	343	3.69	-
5200MHz	Pass	PK	5.1492G	65.10	74.00	-8.90	2.90	3	Horizontal	343	3.69	-
5200MHz	Pass	PK	5.1972G	105.67	Inf	-Inf	2.95	3	Horizontal	343	3.69	-
5200MHz	Pass	AV	5.1492G	52.06	54.00	-1.94	2.90	3	Vertical	334	3.69	-
5200MHz	Pass	AV	5.1992G	97.49	Inf	-Inf	2.95	3	Vertical	334	3.69	-
5200MHz	Pass	PK	5.148G	67.33	74.00	-6.67	2.90	3	Vertical	334	3.69	-
5200MHz	Pass	PK	5.1984G	106.81	Inf	-Inf	2.95	3	Vertical	334	3.69	-
5200MHz	Pass	AV	15.6G	46.64	54.00	-7.36	14.43	3	Horizontal	360	1.50	-
5200MHz	Pass	PK	15.6G	57.73	74.00	-16.27	14.43	3	Horizontal	360	1.50	-
5200MHz	Pass	AV	15.6G	46.59	54.00	-7.41	14.43	3	Vertical	0	1.50	-
5200MHz	Pass	PK	15.6G	58.10	74.00	-15.90	14.43	3	Vertical	0	1.50	-
5240MHz	Pass	AV	5.1422G	46.36	54.00	-7.64	2.89	3	Horizontal	335	3.69	-
5240MHz	Pass	AV	5.2394G	96.21	Inf	-Inf	2.99	3	Horizontal	335	3.69	-
5240MHz	Pass	AV	5.3894G	45.57	54.00	-8.43	3.15	3	Horizontal	335	3.69	-
5240MHz	Pass	PK	5.09G	57.69	74.00	-16.31	2.84	3	Horizontal	335	3.69	-
5240MHz	Pass	PK	5.2394G	104.40	Inf	-Inf	2.99	3	Horizontal	335	3.69	-
5240MHz	Pass	PK	5.3594G	56.16	74.00	-17.84	3.12	3	Horizontal	335	3.69	-
5240MHz	Pass	AV	5.1482G	46.37	54.00	-7.63	2.90	3	Vertical	332	3.58	-
5240MHz	Pass	AV	5.2394G	95.41	Inf	-Inf	2.99	3	Vertical	332	3.58	-
5240MHz	Pass	AV	5.3732G	45.59	54.00	-8.41	3.13	3	Vertical	332	3.58	-
5240MHz	Pass	PK	5.1164G	57.51	74.00	-16.49	2.87	3	Vertical	332	3.58	-
5240MHz	Pass	PK	5.2394G	103.53	Inf	-Inf	2.99	3	Vertical	332	3.58	-
5240MHz	Pass	PK	5.372G	56.26	74.00	-17.74	3.13	3	Vertical	332	3.58	-
5240MHz	Pass	AV	15.72G	46.22	54.00	-7.78	13.99	3	Horizontal	360	1.50	-
5240MHz	Pass	PK	15.72G	56.96	74.00	-17.04	13.99	3	Horizontal	360	1.50	-
5240MHz	Pass	AV	15.72G	46.15	54.00	-7.85	13.99	3	Vertical	0	1.50	-
5240MHz	Pass	PK	15.72G	57.10	74.00	-16.90	13.99	3	Vertical	0	1.50	-
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.149995G	51.95	54.00	-2.05	2.90	3	Horizontal	295	1.03	-
5190MHz	Pass	AV	5.1913G	88.79	Inf	-Inf	2.94	3	Horizontal	295	1.03	-
5190MHz	Pass	PK	5.149995G	65.63	74.00	-8.37	2.90	3	Horizontal	295	1.03	-
5190MHz	Pass	PK	5.1929G	97.11	Inf	-Inf	2.94	3	Horizontal	295	1.03	-
5190MHz	Pass	AV	5.149995G	53.28	54.00	-0.72	2.90	3	Vertical	345	3.65	-
5190MHz	Pass	AV	5.1913G	90.22	Inf	-Inf	2.94	3	Vertical	345	3.65	-
5190MHz	Pass	PK	5.1465G	67.87	74.00	-6.13	2.90	3	Vertical	345	3.65	-
5190MHz	Pass	PK	5.1913G	98.71	Inf	-Inf	2.94	3	Vertical	345	3.65	-
5190MHz	Pass	AV	15.57G	46.44	54.00	-7.56	14.54	3	Horizontal	0	1.50	-
5190MHz	Pass	PK	15.57G	57.67	74.00	-16.33	14.54	3	Horizontal	0	1.50	-
5190MHz	Pass	AV	15.57G	46.82	54.00	-7.18	14.54	3	Vertical	359	1.50	-
5190MHz	Pass	PK	15.57G	58.21	74.00	-15.79	14.54	3	Vertical	360	1.50	-
5230MHz	Pass	AV	5.149995G	51.40	54.00	-2.60	2.90	3	Horizontal	352	1.05	-
5230MHz	Pass	AV	5.2312G	92.00	Inf	-Inf	2.98	3	Horizontal	352	1.05	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5230MHz	Pass	PK	5.1496G	63.82	74.00	-10.18	2.90	3	Horizontal	352	1.05	-
5230MHz	Pass	PK	5.2272G	100.40	Inf	-Inf	2.98	3	Horizontal	352	1.05	-
5230MHz	Pass	AV	5.149995G	51.39	54.00	-2.61	2.90	3	Vertical	340	3.41	-
5230MHz	Pass	AV	5.2316G	92.62	Inf	-Inf	2.98	3	Vertical	340	3.41	-
5230MHz	Pass	PK	5.1424G	62.85	74.00	-11.15	2.89	3	Vertical	340	3.41	-
5230MHz	Pass	PK	5.2268G	101.36	Inf	-Inf	2.98	3	Vertical	340	3.41	-
5230MHz	Pass	AV	15.69G	46.38	54.00	-7.62	14.10	3	Horizontal	360	1.50	-
5230MHz	Pass	PK	15.69G	57.32	74.00	-16.68	14.10	3	Horizontal	360	1.50	-
5230MHz	Pass	AV	15.69G	46.40	54.00	-7.60	14.10	3	Vertical	0	1.50	-
5230MHz	Pass	PK	15.69G	57.45	74.00	-16.55	14.10	3	Vertical	0	1.50	-
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.149G	53.41	54.00	-0.59	2.90	3	Horizontal	288	1.00	-
5210MHz	Pass	AV	5.207G	85.26	Inf	-Inf	2.96	3	Horizontal	288	1.00	-
5210MHz	Pass	AV	5.449G	45.56	54.00	-8.44	3.21	3	Horizontal	288	1.00	-
5210MHz	Pass	AV	15.63G	46.59	54.00	-7.41	14.32	3	Horizontal	0	1.50	-
5210MHz	Pass	PK	5.149G	65.87	74.00	-8.13	2.90	3	Horizontal	288	1.00	-
5210MHz	Pass	PK	5.206G	95.20	Inf	-Inf	2.96	3	Horizontal	288	1.00	-
5210MHz	Pass	PK	5.426G	56.89	74.00	-17.11	3.19	3	Horizontal	288	1.00	-
5210MHz	Pass	PK	15.63G	58.18	74.00	-15.82	14.32	3	Horizontal	0	1.50	-
5210MHz	Pass	AV	5.149995G	53.11	54.00	-0.89	2.90	3	Vertical	339	3.44	-
5210MHz	Pass	AV	5.208G	86.04	Inf	-Inf	2.96	3	Vertical	339	3.44	-
5210MHz	Pass	AV	5.448G	45.60	54.00	-8.40	3.21	3	Vertical	339	3.44	-
5210MHz	Pass	AV	15.63G	46.68	54.00	-7.32	14.32	3	Vertical	351	1.01	-
5210MHz	Pass	PK	5.148G	66.35	74.00	-7.65	2.90	3	Vertical	339	3.44	-
5210MHz	Pass	PK	5.213G	94.57	Inf	-Inf	2.96	3	Vertical	339	3.44	-
5210MHz	Pass	PK	5.411G	56.37	74.00	-17.63	3.17	3	Vertical	339	3.44	-
5210MHz	Pass	PK	15.63G	57.67	74.00	-16.33	14.32	3	Vertical	351	1.01	-

802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

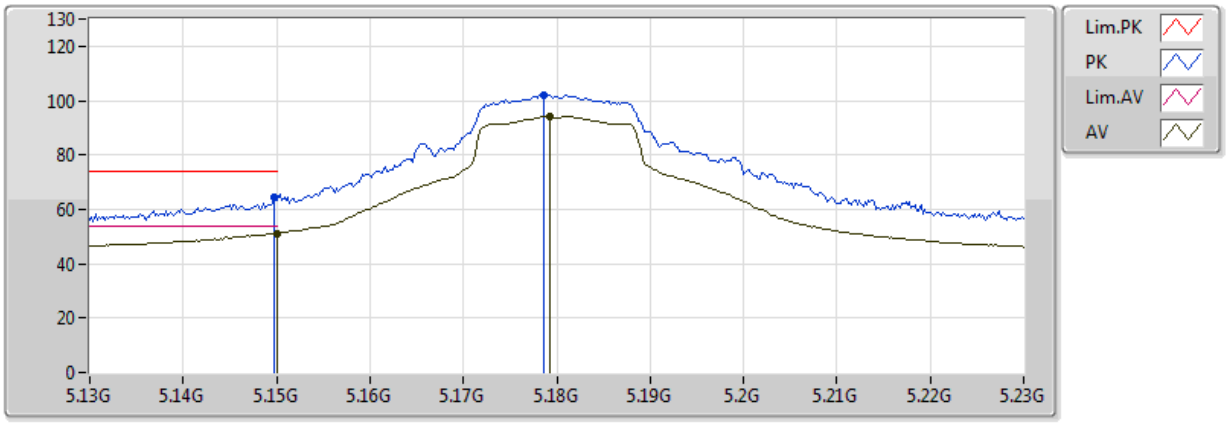


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1792G	95.80	Inf	-Inf	2.93	3	Vertical	332	3.69	-	92.87	31.64	6.49	35.20
AV	5.149995G	53.51	54.00	-0.49	2.90	3	Vertical	332	3.69	-	50.61	31.62	6.48	35.21
PK	5.1786G	103.64	Inf	-Inf	2.93	3	Vertical	332	3.69	-	100.71	31.64	6.49	35.20
PK	5.149995G	67.02	74.00	-6.98	2.90	3	Vertical	332	3.69	-	64.12	31.62	6.48	35.21

802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

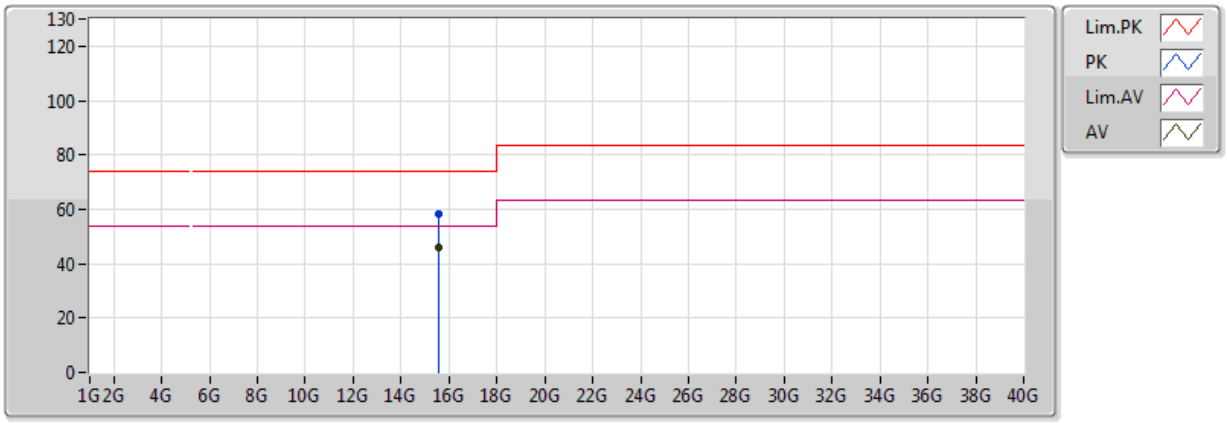


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1792G	94.32	Inf	-Inf	2.93	3	Horizontal	340	1.09	-	91.39	31.64	6.49	35.20
AV	5.149995G	51.16	54.00	-2.84	2.90	3	Horizontal	340	1.09	-	48.26	31.62	6.48	35.21
PK	5.1786G	102.18	Inf	-Inf	2.93	3	Horizontal	340	1.09	-	99.25	31.64	6.49	35.20
PK	5.1498G	64.24	74.00	-9.76	2.90	3	Horizontal	340	1.09	-	61.34	31.62	6.48	35.21

802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

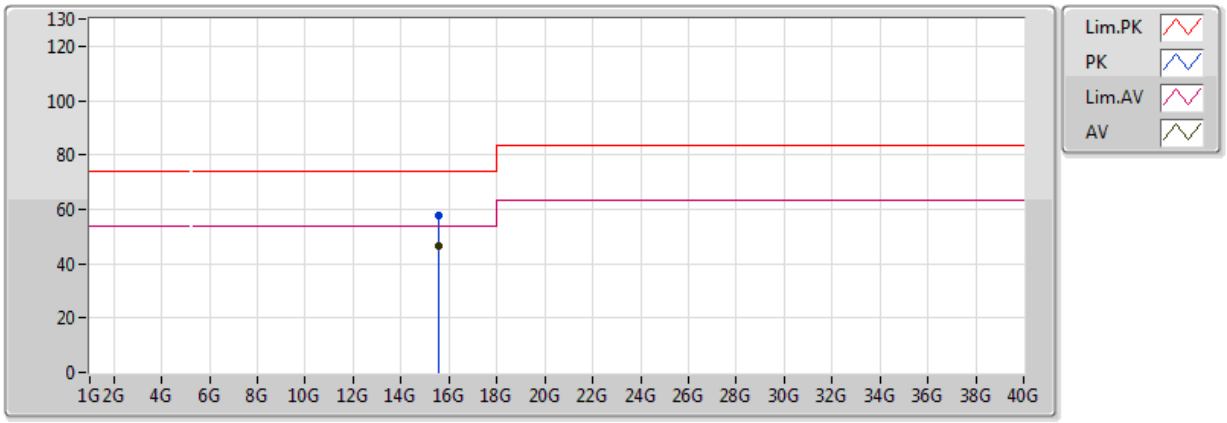


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.54G	46.02	54.00	-7.98	14.65	3	Vertical	200	1.50	-	31.36	38.86	11.22	35.43
PK	15.54G	58.41	74.00	-15.59	14.65	3	Vertical	200	1.50	-	43.76	38.86	11.22	35.43

802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

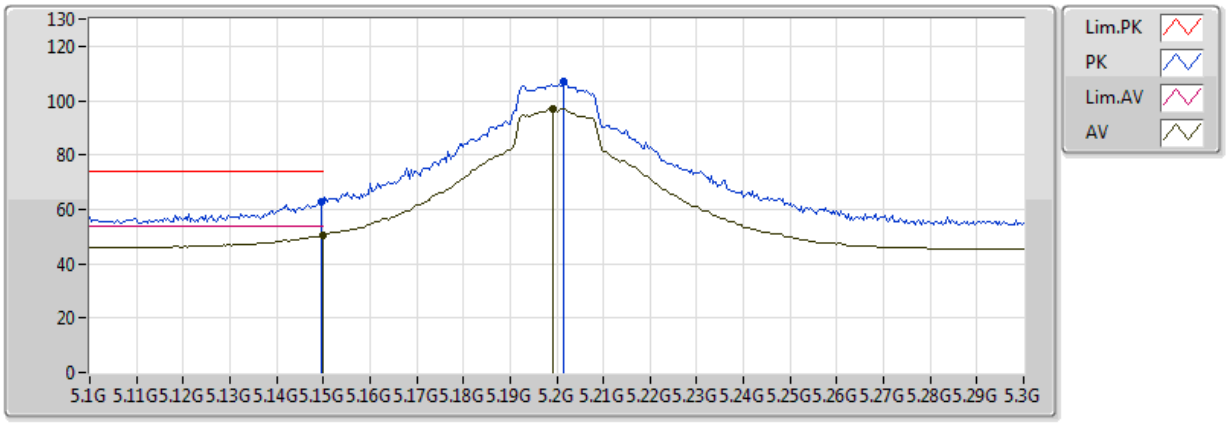


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.54G	46.58	54.00	-7.42	14.65	3	Horizontal	132	1.50	-	31.93	38.86	11.22	35.43
PK	15.54G	57.60	74.00	-16.40	14.65	3	Horizontal	132	1.50	-	42.95	38.86	11.22	35.43

802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX

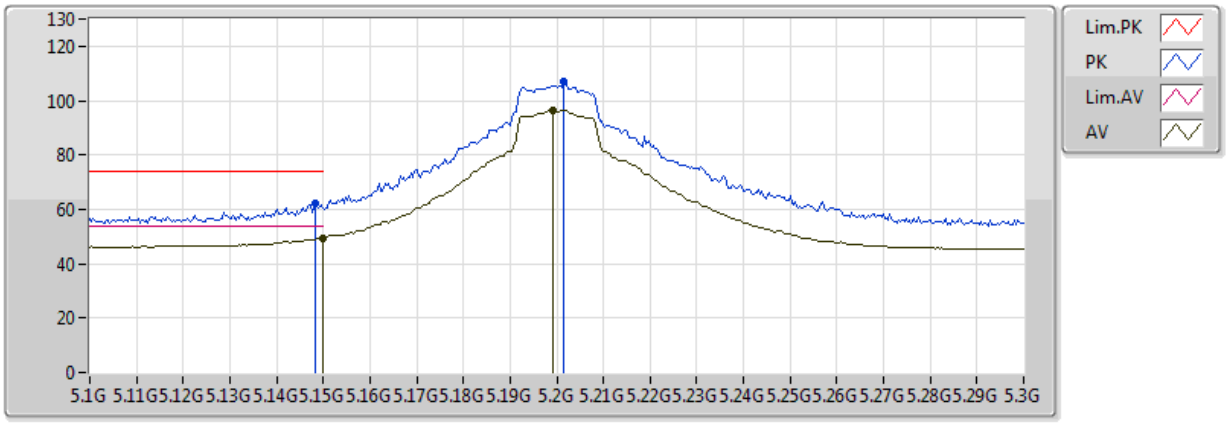


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149995G	50.35	54.00	-3.65	2.90	3	Vertical	342	3.69	-	47.45	31.62	6.48	35.21
AV	5.1992G	96.94	Inf	-Inf	2.95	3	Vertical	342	3.69	-	93.99	31.66	6.49	35.20
PK	5.1496G	62.83	74.00	-11.17	2.90	3	Vertical	342	3.69	-	59.93	31.62	6.48	35.21
PK	5.2016G	106.87	Inf	-Inf	2.95	3	Vertical	342	3.69	-	103.91	31.66	6.49	35.20

802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX

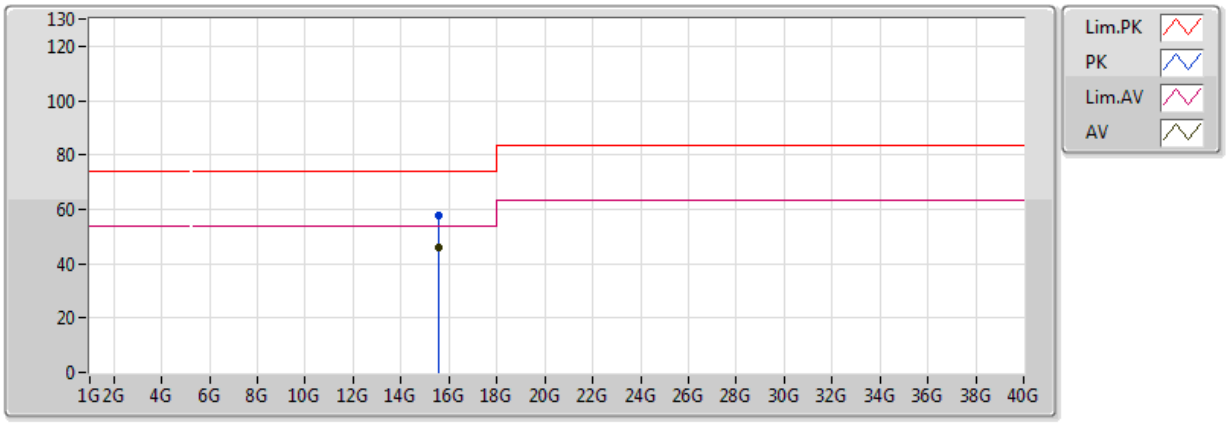


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149995G	49.33	54.00	-4.67	2.90	3	Horizontal	347	3.69	-	46.43	31.62	6.48	35.21
AV	5.1992G	96.58	Inf	-Inf	2.95	3	Horizontal	347	3.69	-	93.63	31.66	6.49	35.20
PK	5.1484G	62.11	74.00	-11.89	2.90	3	Horizontal	347	3.69	-	59.21	31.62	6.48	35.21
PK	5.2016G	106.93	Inf	-Inf	2.95	3	Horizontal	347	3.69	-	103.98	31.66	6.49	35.20

802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX

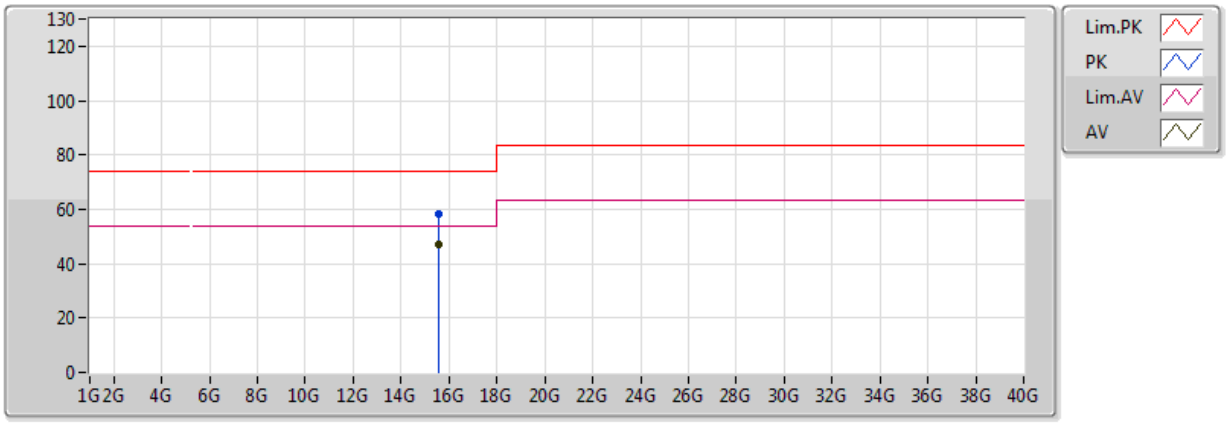


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.6G	45.84	54.00	-8.16	14.43	3	Vertical	302	1.67	-	31.41	38.66	11.27	35.50
PK	15.6G	57.85	74.00	-16.15	14.43	3	Vertical	302	1.67	-	43.42	38.66	11.27	35.50

802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX

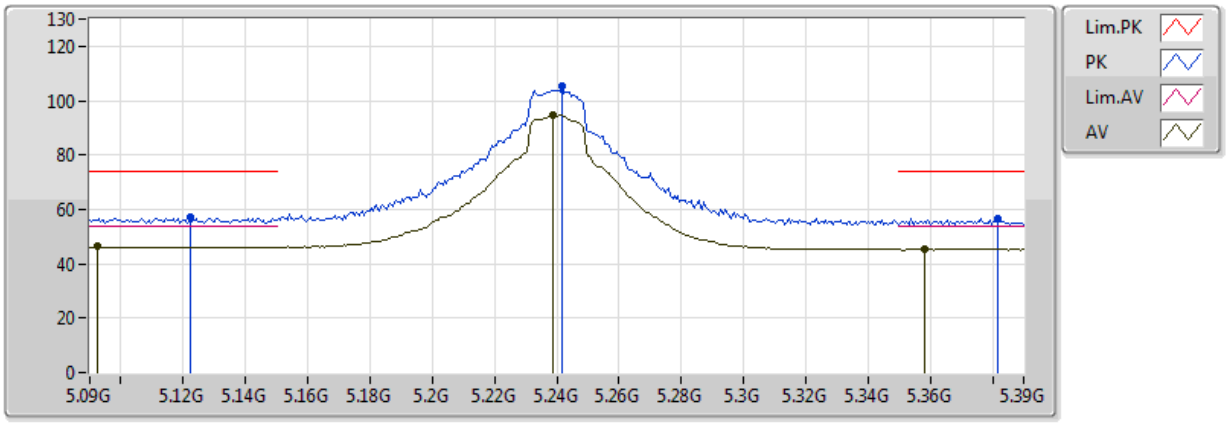


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.6G	47.10	54.00	-6.90	14.43	3	Horizontal	58	1.50	-	32.67	38.66	11.27	35.50
PK	15.6G	58.27	74.00	-15.73	14.43	3	Horizontal	58	1.50	-	43.84	38.66	11.27	35.50

802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

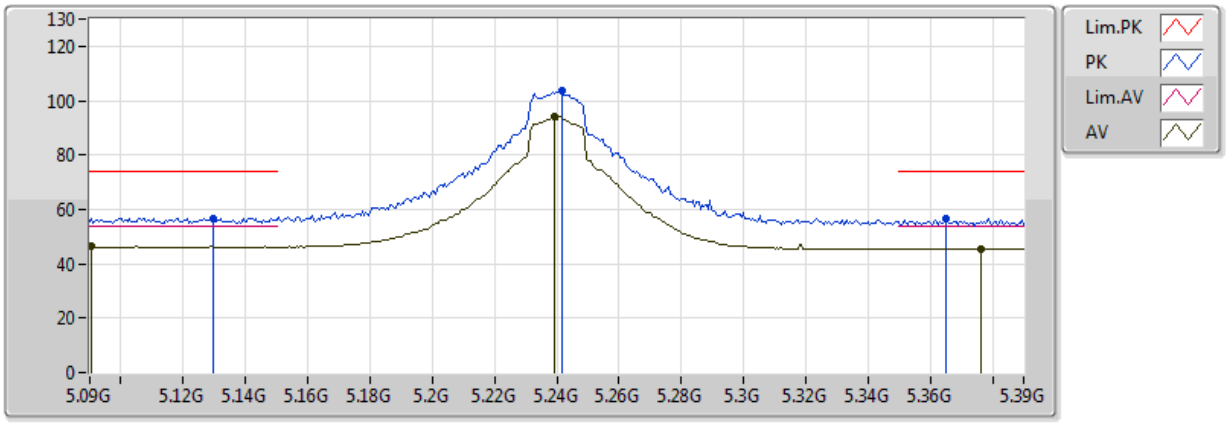


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.0924G	46.30	54.00	-7.70	2.84	3	Vertical	340	3.61	-	43.46	31.57	6.48	35.21
AV	5.2388G	94.93	Inf	-Inf	2.99	3	Vertical	340	3.61	-	91.94	31.69	6.50	35.20
AV	5.3582G	45.39	54.00	-8.61	3.12	3	Vertical	340	3.61	-	42.27	31.79	6.52	35.18
PK	5.1224G	56.97	74.00	-17.03	2.87	3	Vertical	340	3.61	-	54.10	31.60	6.48	35.21
PK	5.2418G	105.32	Inf	-Inf	3.00	3	Vertical	340	3.61	-	102.32	31.69	6.50	35.20
PK	5.3816G	56.63	74.00	-17.37	3.14	3	Vertical	340	3.61	-	53.49	31.81	6.52	35.18

802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

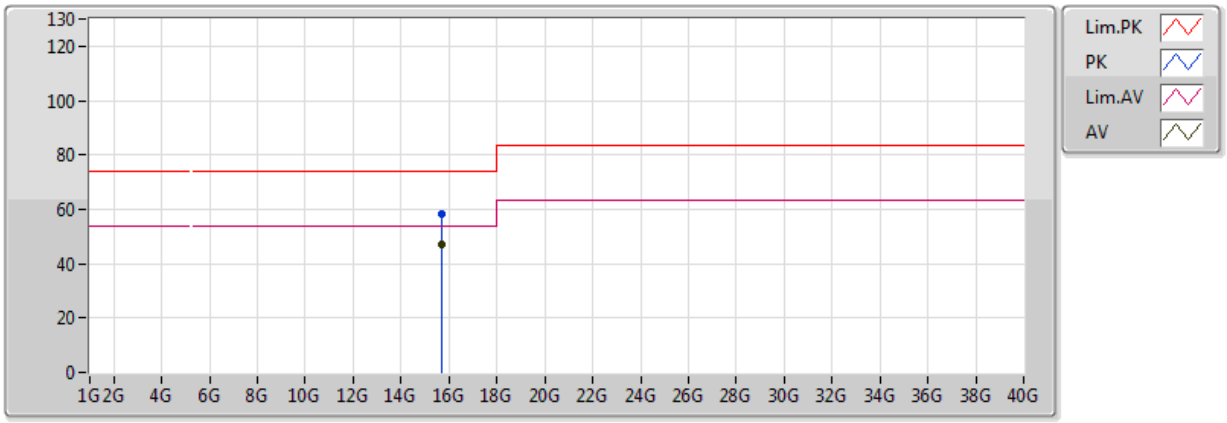


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.0906G	46.26	54.00	-7.74	2.84	3	Horizontal	292	1.01	-	43.42	31.57	6.48	35.21
AV	5.2394G	94.07	Inf	-Inf	2.99	3	Horizontal	292	1.01	-	91.07	31.69	6.50	35.20
AV	5.3762G	45.49	54.00	-8.51	3.14	3	Horizontal	292	1.01	-	42.35	31.80	6.52	35.18
PK	5.1296G	56.86	74.00	-17.14	2.88	3	Horizontal	292	1.01	-	53.98	31.60	6.48	35.21
PK	5.2418G	103.81	Inf	-Inf	3.00	3	Horizontal	292	1.01	-	100.82	31.69	6.50	35.20
PK	5.3648G	56.82	74.00	-17.18	3.12	3	Horizontal	292	1.01	-	53.70	31.79	6.52	35.18

802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

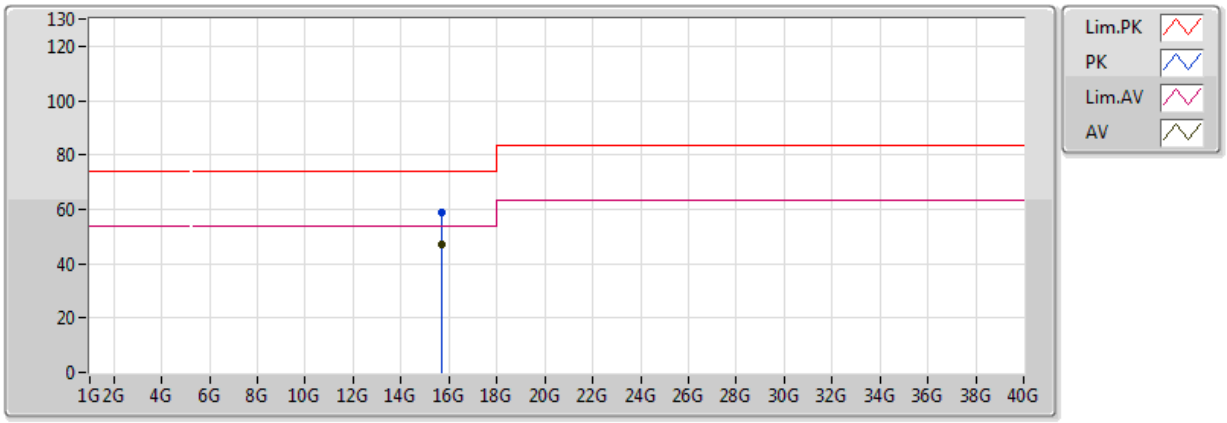


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.72G	46.93	54.00	-7.07	13.99	3	Vertical	360	1.55	-	32.95	38.25	11.37	35.63
PK	15.72G	58.46	74.00	-15.54	13.99	3	Vertical	360	1.55	-	44.47	38.25	11.37	35.63

802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

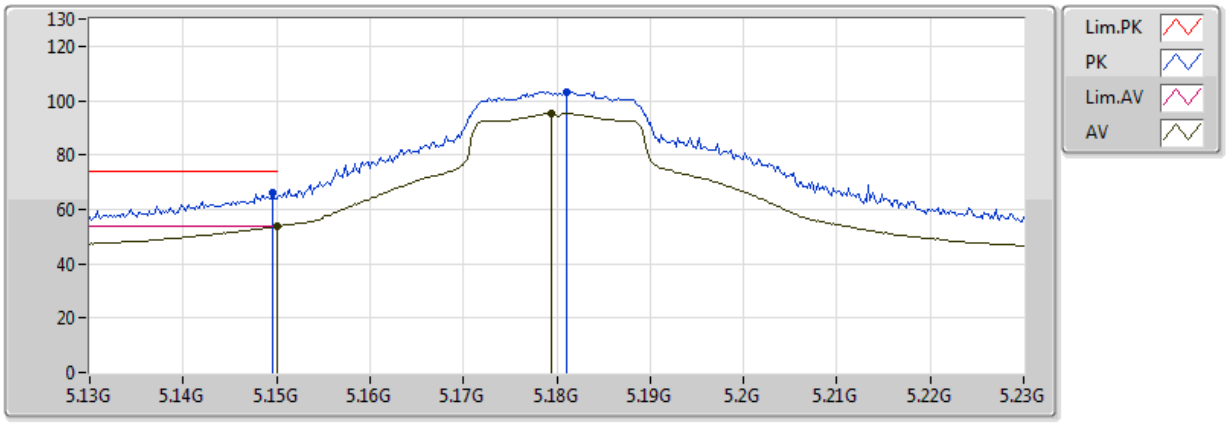


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.72G	47.05	54.00	-6.95	13.99	3	Horizontal	0	1.50	-	33.07	38.25	11.37	35.63
PK	15.72G	58.75	74.00	-15.25	13.99	3	Horizontal	0	1.50	-	44.77	38.25	11.37	35.63

802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

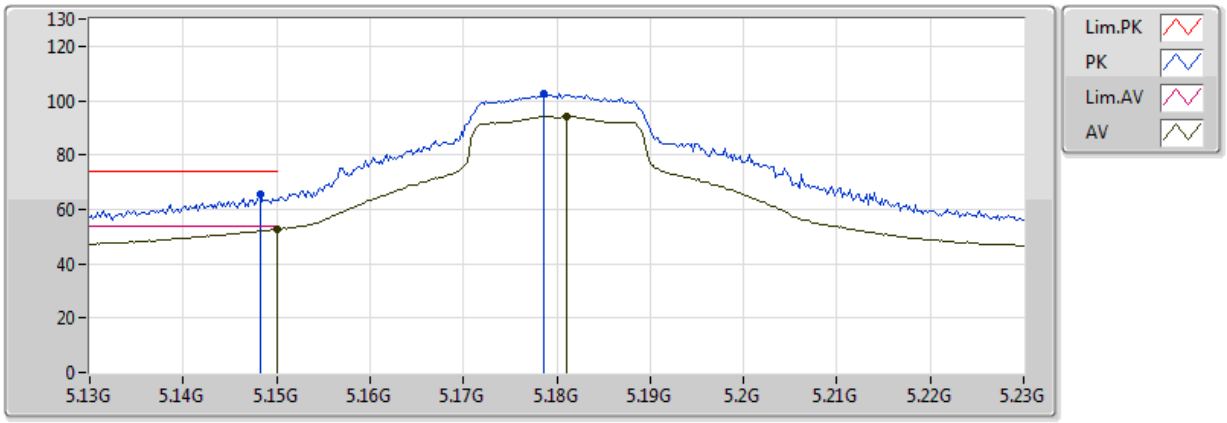


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149995G	53.63	54.00	-0.37	2.90	3	Vertical	339	3.67	-	50.73	31.62	6.48	35.21
AV	5.1794G	95.40	Inf	-Inf	2.93	3	Vertical	339	3.67	-	92.47	31.64	6.49	35.20
PK	5.1496G	65.89	74.00	-8.11	2.90	3	Vertical	339	3.67	-	62.99	31.62	6.48	35.21
PK	5.181G	103.34	Inf	-Inf	2.93	3	Vertical	339	3.67	-	100.41	31.64	6.49	35.20

802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

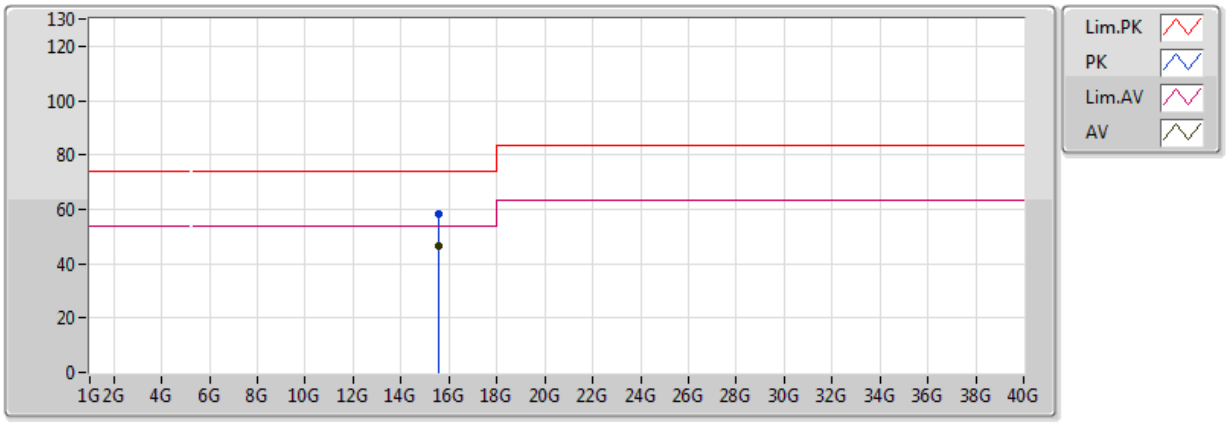


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149995G	52.76	54.00	-1.24	2.90	3	Horizontal	287	1.01	-	49.86	31.62	6.48	35.21
AV	5.181G	94.36	Inf	-Inf	2.93	3	Horizontal	287	1.01	-	91.43	31.64	6.49	35.20
PK	5.1482G	65.44	74.00	-8.56	2.90	3	Horizontal	287	1.01	-	62.54	31.62	6.48	35.21
PK	5.1786G	102.53	Inf	-Inf	2.93	3	Horizontal	287	1.01	-	99.60	31.64	6.49	35.20

802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

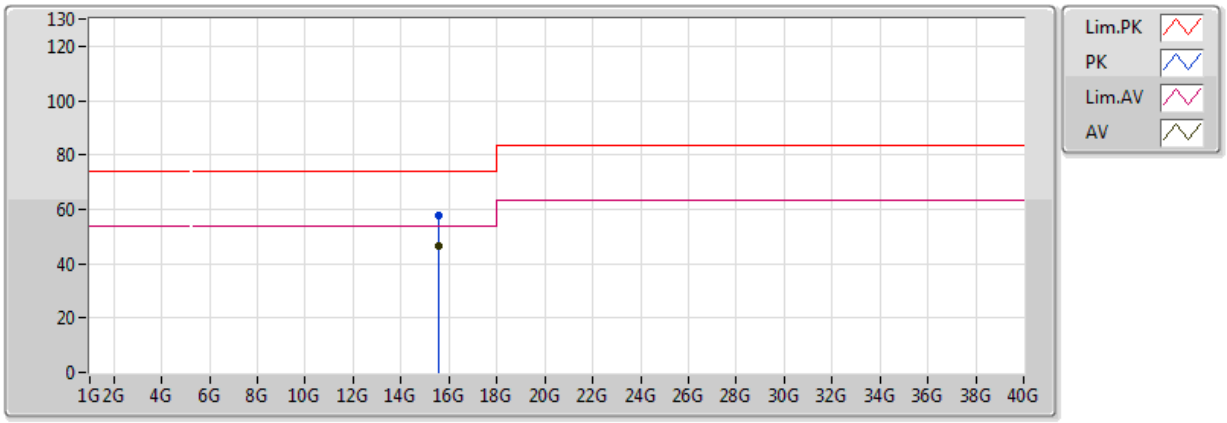


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.54G	46.52	54.00	-7.48	14.65	3	Vertical	360	1.50	-	31.87	38.86	11.22	35.43
PK	15.54G	58.14	74.00	-15.86	14.65	3	Vertical	360	1.50	-	43.48	38.86	11.22	35.43

802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

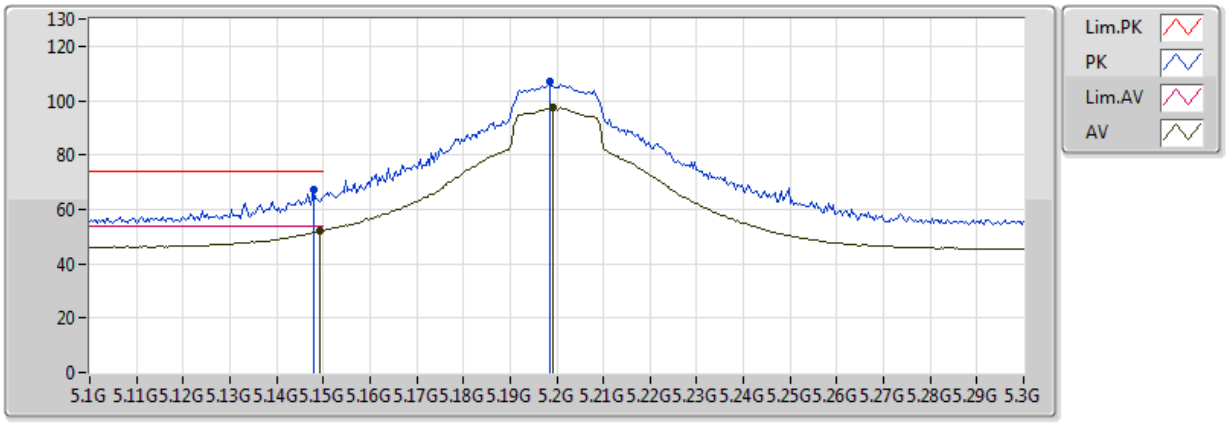


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.54G	46.61	54.00	-7.39	14.65	3	Horizontal	0	1.50	-	31.96	38.86	11.22	35.43
PK	15.54G	57.55	74.00	-16.45	14.65	3	Horizontal	0	1.50	-	42.90	38.86	11.22	35.43

802.11ac VHT20_Nss1,(MCS0)_1TX

5200MHz_TX

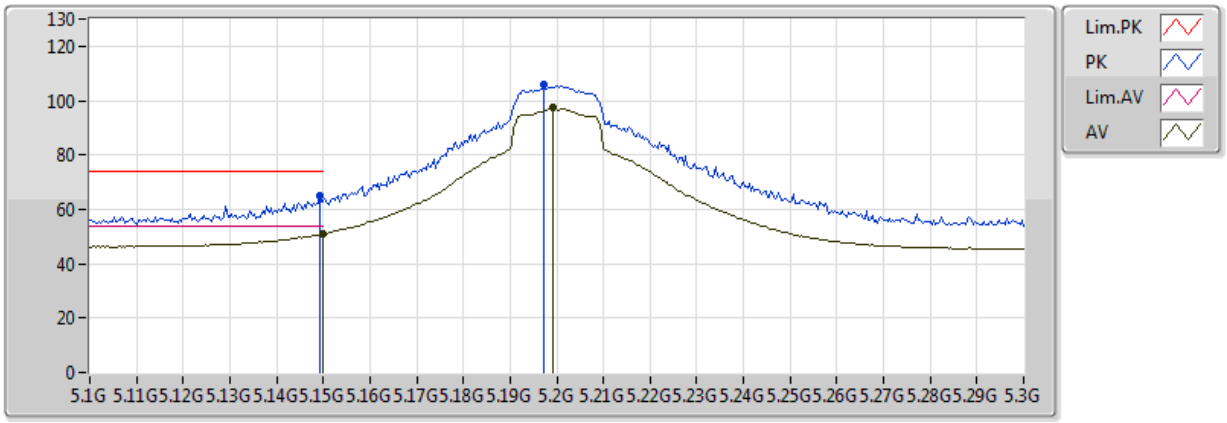


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1492G	52.06	54.00	-1.94	2.90	3	Vertical	334	3.69	-	49.16	31.62	6.48	35.21
AV	5.1992G	97.49	Inf	-Inf	2.95	3	Vertical	334	3.69	-	94.54	31.66	6.49	35.20
PK	5.148G	67.33	74.00	-6.67	2.90	3	Vertical	334	3.69	-	64.43	31.62	6.48	35.21
PK	5.1984G	106.81	Inf	-Inf	2.95	3	Vertical	334	3.69	-	103.86	31.66	6.49	35.20

802.11ac VHT20_Nss1,(MCS0)_1TX

5200MHz_TX

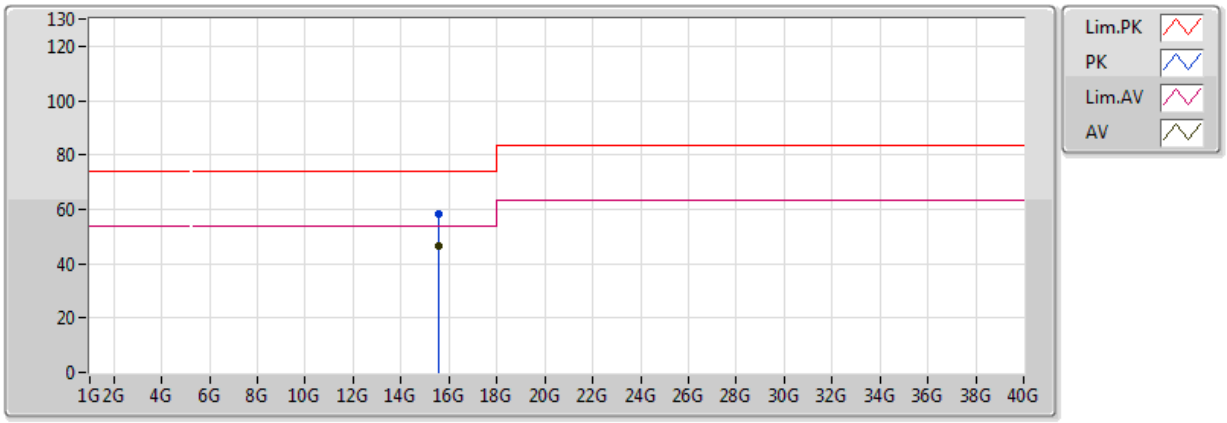


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149995G	51.02	54.00	-2.98	2.90	3	Horizontal	343	3.69	-	48.12	31.62	6.48	35.21
AV	5.1992G	97.27	Inf	-Inf	2.95	3	Horizontal	343	3.69	-	94.32	31.66	6.49	35.20
PK	5.1492G	65.10	74.00	-8.90	2.90	3	Horizontal	343	3.69	-	62.20	31.62	6.48	35.21
PK	5.1972G	105.67	Inf	-Inf	2.95	3	Horizontal	343	3.69	-	102.73	31.66	6.49	35.20

802.11ac VHT20_Nss1,(MCS0)_1TX

5200MHz_TX

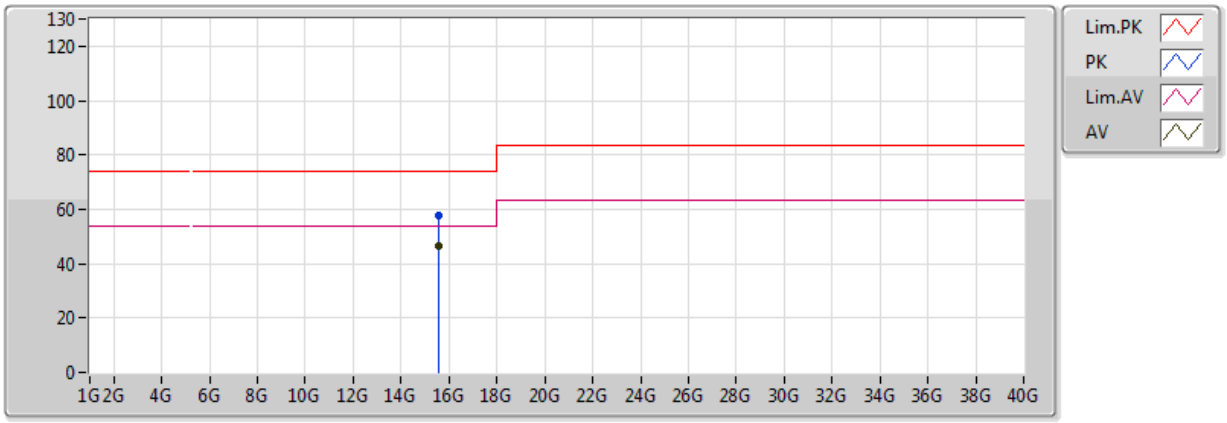


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.6G	46.59	54.00	-7.41	14.43	3	Vertical	0	1.50	-	32.16	38.66	11.27	35.50
PK	15.6G	58.10	74.00	-15.90	14.43	3	Vertical	0	1.50	-	43.67	38.66	11.27	35.50

802.11ac VHT20_Nss1,(MCS0)_1TX

5200MHz_TX

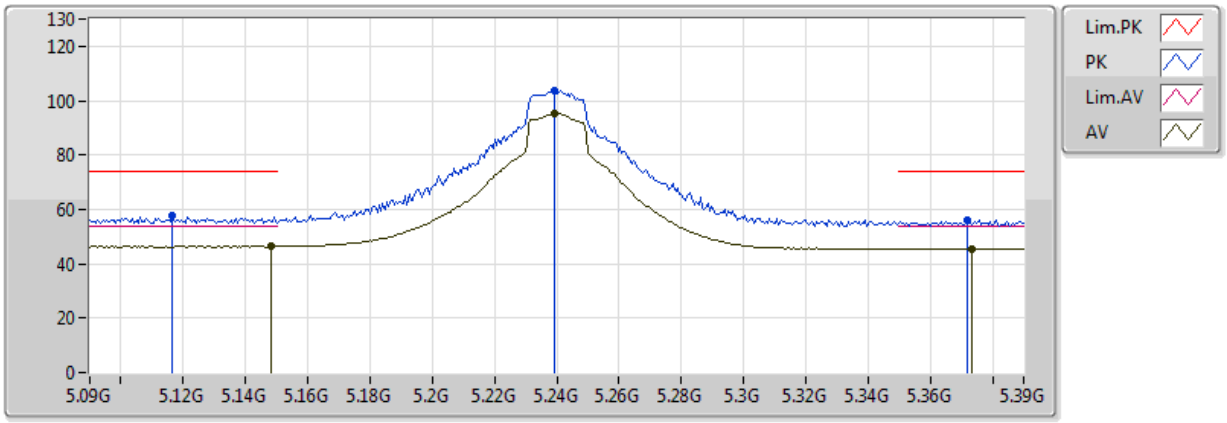


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.6G	46.64	54.00	-7.36	14.43	3	Horizontal	360	1.50	-	32.21	38.66	11.27	35.50
PK	15.6G	57.73	74.00	-16.27	14.43	3	Horizontal	360	1.50	-	43.30	38.66	11.27	35.50

802.11ac VHT20_Nss1,(MCS0)_1TX

5240MHz_TX

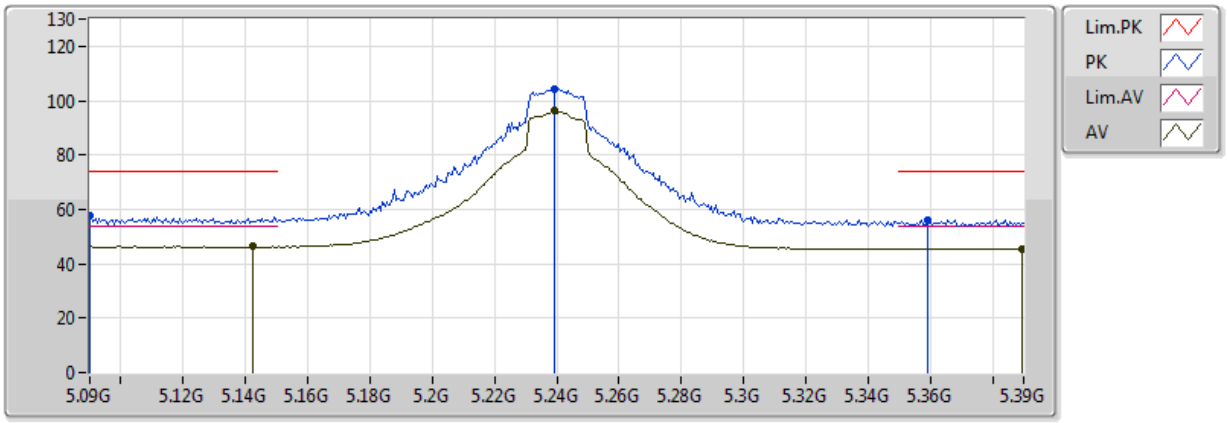


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1482G	46.37	54.00	-7.63	2.90	3	Vertical	332	3.58	-	43.47	31.62	6.48	35.21
AV	5.2394G	95.41	Inf	-Inf	2.99	3	Vertical	332	3.58	-	92.42	31.69	6.50	35.20
AV	5.3732G	45.59	54.00	-8.41	3.13	3	Vertical	332	3.58	-	42.46	31.80	6.52	35.18
PK	5.1164G	57.51	74.00	-16.49	2.87	3	Vertical	332	3.58	-	54.64	31.59	6.48	35.21
PK	5.2394G	103.53	Inf	-Inf	2.99	3	Vertical	332	3.58	-	100.54	31.69	6.50	35.20
PK	5.372G	56.26	74.00	-17.74	3.13	3	Vertical	332	3.58	-	53.13	31.80	6.52	35.18

802.11ac VHT20_Nss1,(MCS0)_1TX

5240MHz_TX

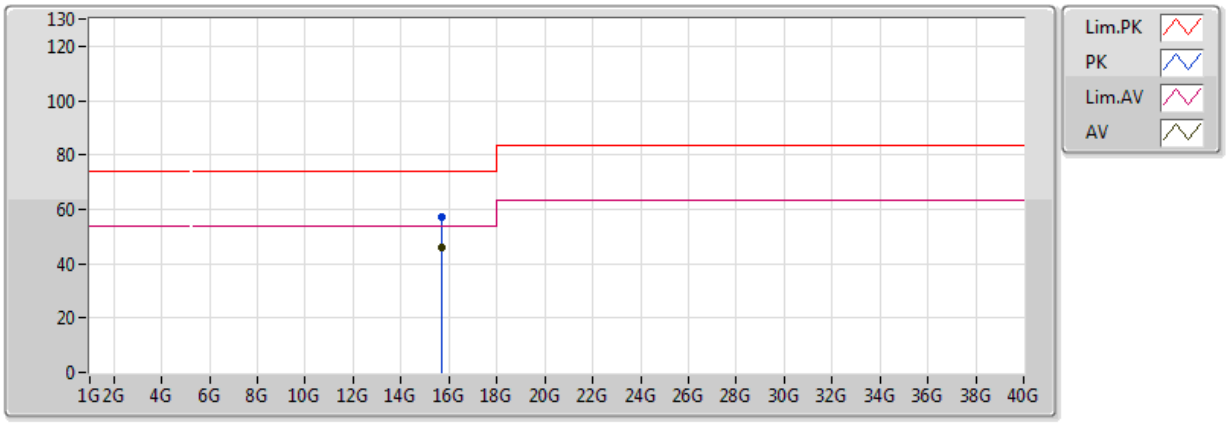


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1422G	46.36	54.00	-7.64	2.89	3	Horizontal	335	3.69	-	43.47	31.61	6.48	35.21
AV	5.2394G	96.21	Inf	-Inf	2.99	3	Horizontal	335	3.69	-	93.22	31.69	6.50	35.20
AV	5.3894G	45.57	54.00	-8.43	3.15	3	Horizontal	335	3.69	-	42.42	31.81	6.52	35.18
PK	5.09G	57.69	74.00	-16.31	2.84	3	Horizontal	335	3.69	-	54.85	31.57	6.48	35.21
PK	5.2394G	104.40	Inf	-Inf	2.99	3	Horizontal	335	3.69	-	101.41	31.69	6.50	35.20
PK	5.3594G	56.16	74.00	-17.84	3.12	3	Horizontal	335	3.69	-	53.04	31.79	6.52	35.18

802.11ac VHT20_Nss1,(MCS0)_1TX

5240MHz_TX

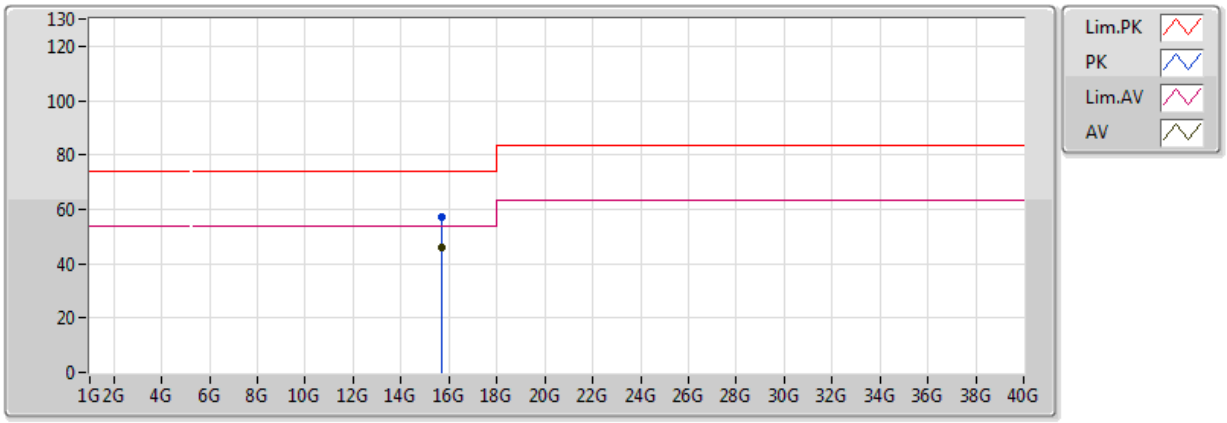


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.72G	46.15	54.00	-7.85	13.99	3	Vertical	0	1.50	-	32.16	38.25	11.37	35.63
PK	15.72G	57.10	74.00	-16.90	13.99	3	Vertical	0	1.50	-	43.11	38.25	11.37	35.63

802.11ac VHT20_Nss1,(MCS0)_1TX

5240MHz_TX

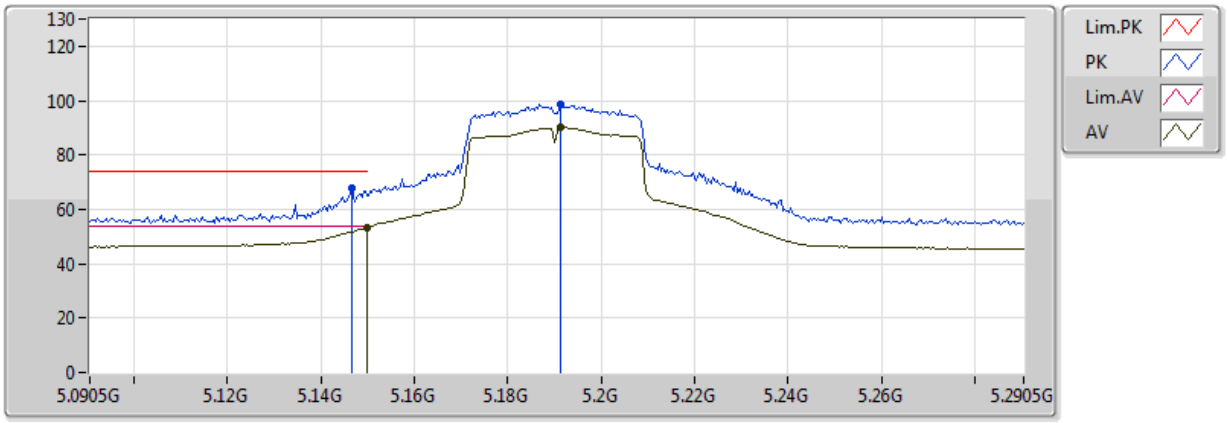


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.72G	46.22	54.00	-7.78	13.99	3	Horizontal	360	1.50	-	32.23	38.25	11.37	35.63
PK	15.72G	56.96	74.00	-17.04	13.99	3	Horizontal	360	1.50	-	42.98	38.25	11.37	35.63

802.11ac VHT40_Nss1,(MCS0)_1TX

5190MHz_TX

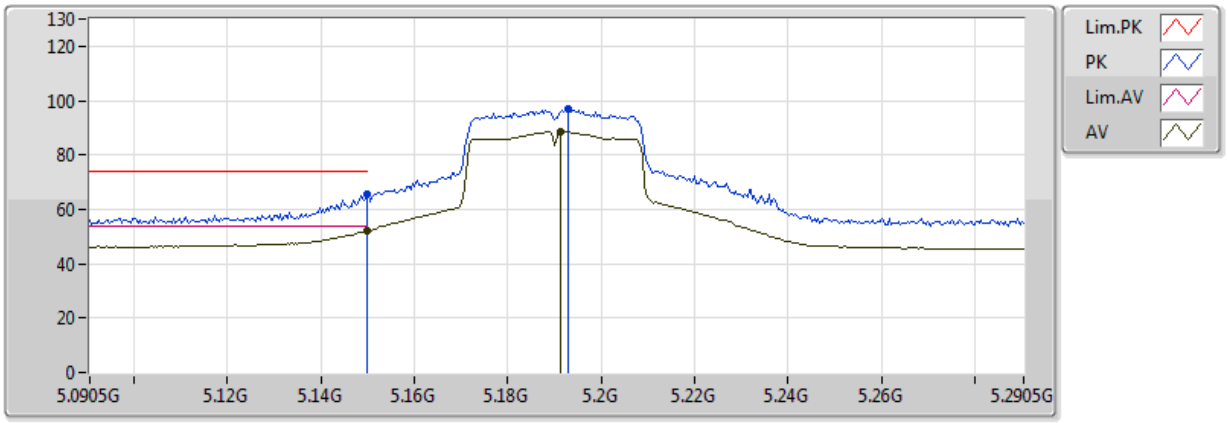


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149995G	53.28	54.00	-0.72	2.90	3	Vertical	345	3.65	-	50.38	31.62	6.48	35.21
AV	5.1913G	90.22	Inf	-Inf	2.94	3	Vertical	345	3.65	-	87.28	31.65	6.49	35.20
PK	5.1465G	67.87	74.00	-6.13	2.90	3	Vertical	345	3.65	-	64.98	31.62	6.48	35.21
PK	5.1913G	98.71	Inf	-Inf	2.94	3	Vertical	345	3.65	-	95.76	31.65	6.49	35.20

802.11ac VHT40_Nss1,(MCS0)_1TX

5190MHz_TX

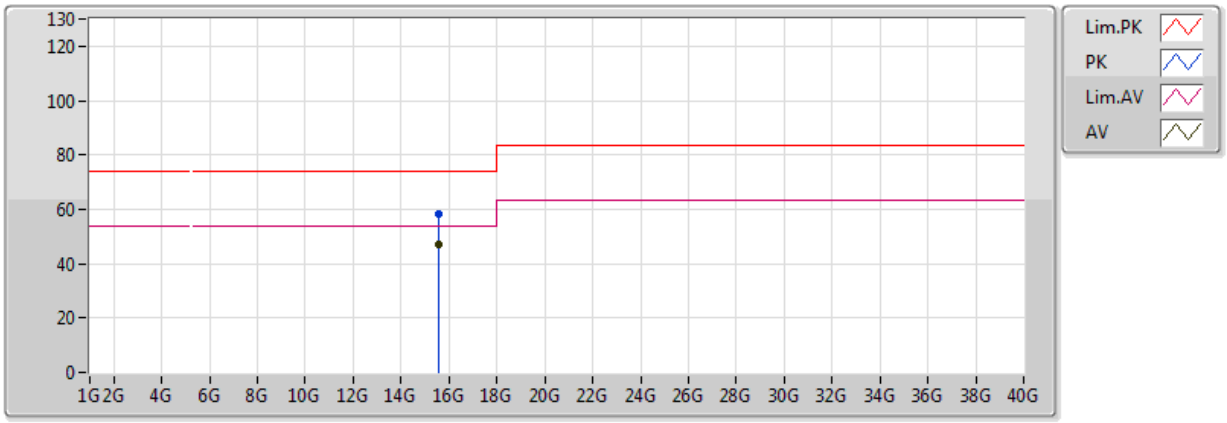


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149995G	51.95	54.00	-2.05	2.90	3	Horizontal	295	1.03	-	49.05	31.62	6.48	35.21
AV	5.1913G	88.79	Inf	-Inf	2.94	3	Horizontal	295	1.03	-	85.85	31.65	6.49	35.20
PK	5.149995G	65.63	74.00	-8.37	2.90	3	Horizontal	295	1.03	-	62.73	31.62	6.48	35.21
PK	5.1929G	97.11	Inf	-Inf	2.94	3	Horizontal	295	1.03	-	94.17	31.65	6.49	35.20

802.11ac VHT40_Nss1,(MCS0)_1TX

5190MHz_TX

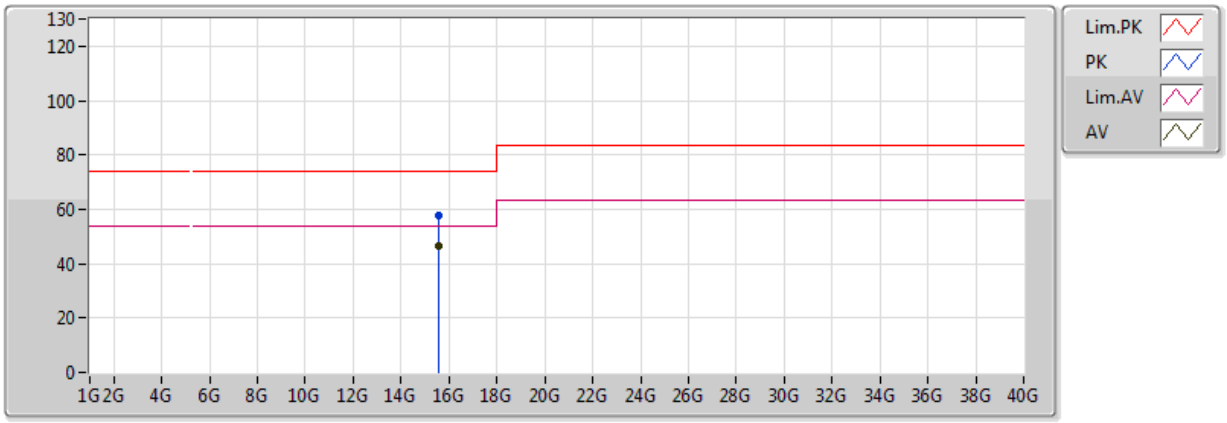


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.57G	46.82	54.00	-7.18	14.54	3	Vertical	360	1.50	-	32.28	38.76	11.24	35.46
PK	15.57G	58.21	74.00	-15.79	14.54	3	Vertical	360	1.50	-	43.66	38.76	11.24	35.46

802.11ac VHT40_Nss1,(MCS0)_1TX

5190MHz_TX

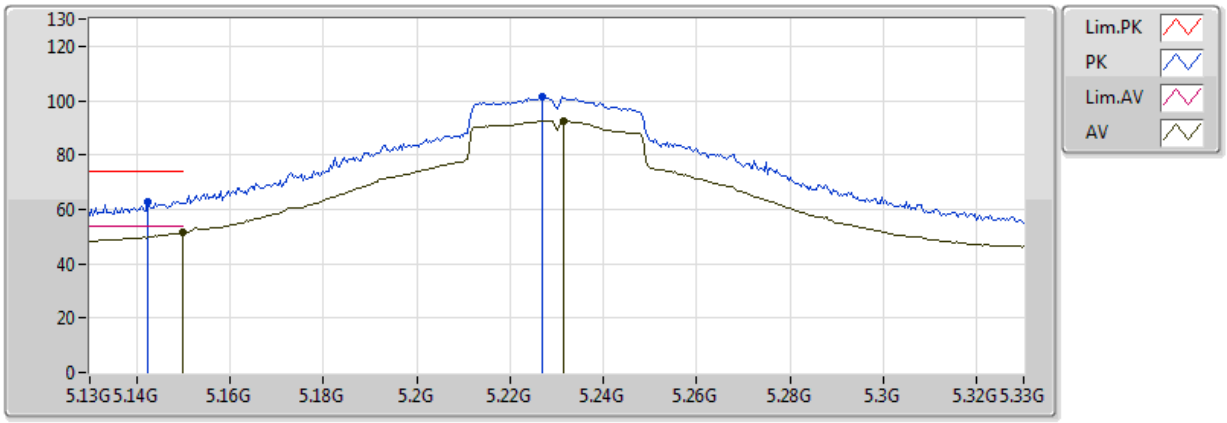


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.57G	46.44	54.00	-7.56	14.54	3	Horizontal	0	1.50	-	31.90	38.76	11.24	35.46
PK	15.57G	57.67	74.00	-16.33	14.54	3	Horizontal	0	1.50	-	43.13	38.76	11.24	35.46

802.11ac VHT40_Nss1,(MCS0)_1TX

5230MHz_TX

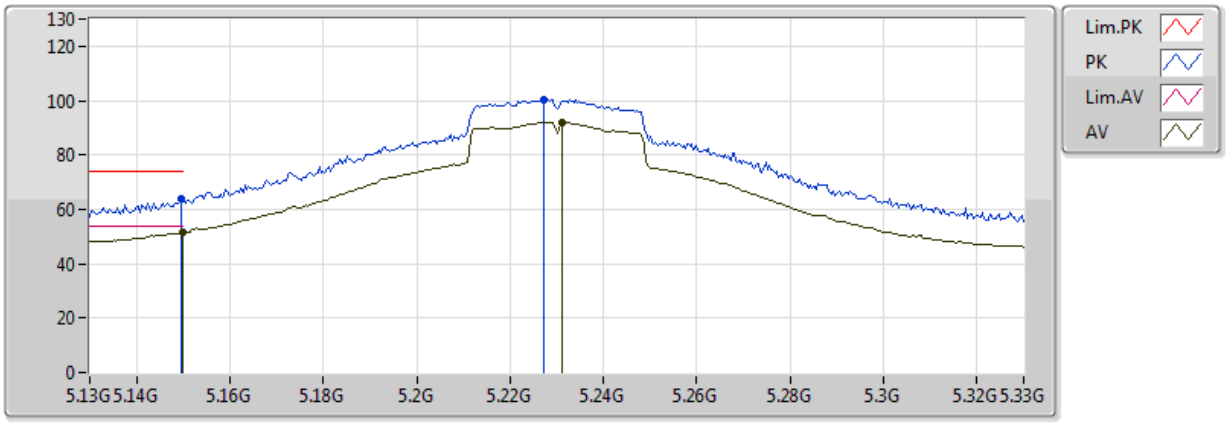


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149995G	51.39	54.00	-2.61	2.90	3	Vertical	340	3.41	-	48.49	31.62	6.48	35.21
AV	5.2316G	92.62	Inf	-Inf	2.98	3	Vertical	340	3.41	-	89.64	31.69	6.50	35.20
PK	5.1424G	62.85	74.00	-11.15	2.89	3	Vertical	340	3.41	-	59.95	31.61	6.48	35.21
PK	5.2268G	101.36	Inf	-Inf	2.98	3	Vertical	340	3.41	-	98.38	31.68	6.50	35.20

802.11ac VHT40_Nss1,(MCS0)_1TX

5230MHz_TX

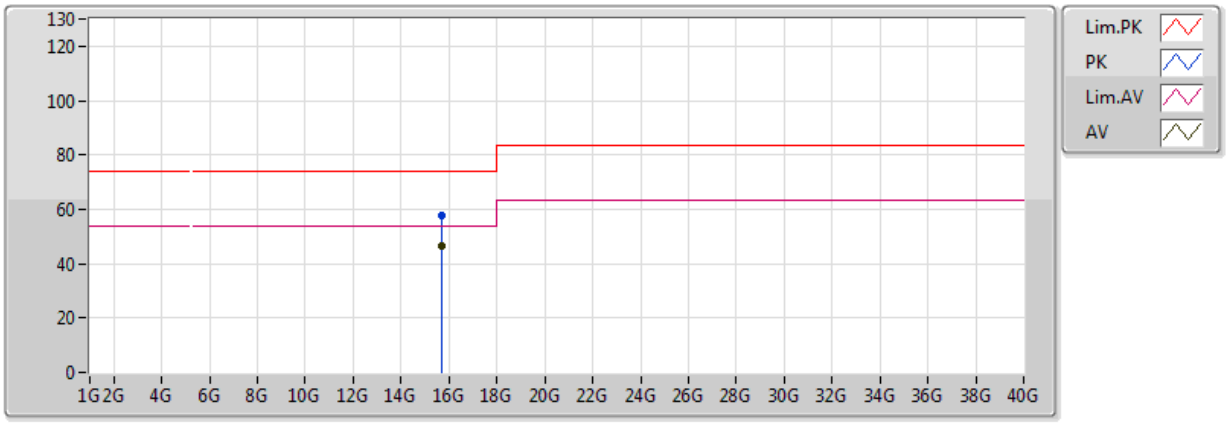


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149995G	51.40	54.00	-2.60	2.90	3	Horizontal	352	1.05	-	48.50	31.62	6.48	35.21
AV	5.2312G	92.00	Inf	-Inf	2.98	3	Horizontal	352	1.05	-	89.01	31.68	6.50	35.20
PK	5.1496G	63.82	74.00	-10.18	2.90	3	Horizontal	352	1.05	-	60.92	31.62	6.48	35.21
PK	5.2272G	100.40	Inf	-Inf	2.98	3	Horizontal	352	1.05	-	97.42	31.68	6.50	35.20

802.11ac VHT40_Nss1,(MCS0)_1TX

5230MHz_TX

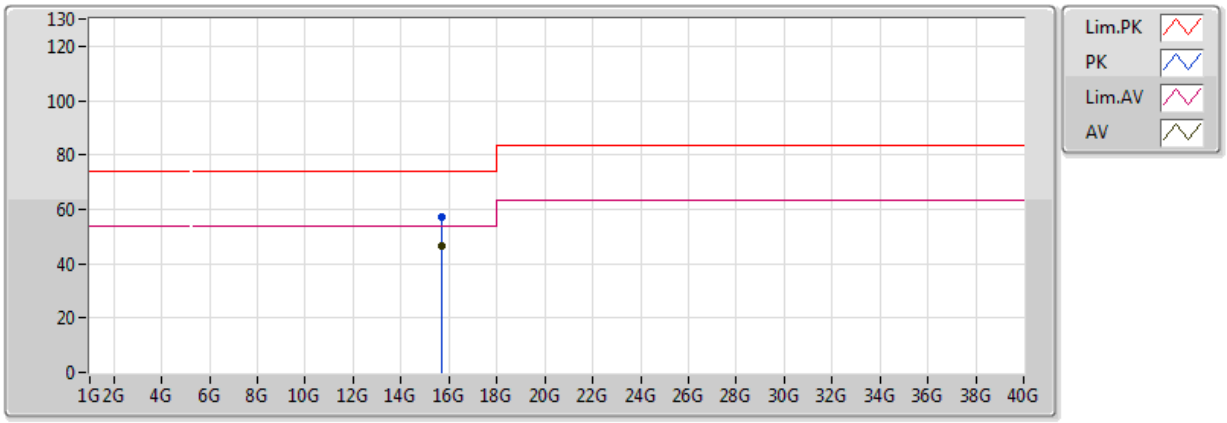


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.69G	46.40	54.00	-7.60	14.10	3	Vertical	0	1.50	-	32.30	38.35	11.34	35.60
PK	15.69G	57.45	74.00	-16.55	14.10	3	Vertical	0	1.50	-	43.35	38.35	11.34	35.60

802.11ac VHT40_Nss1,(MCS0)_1TX

5230MHz_TX

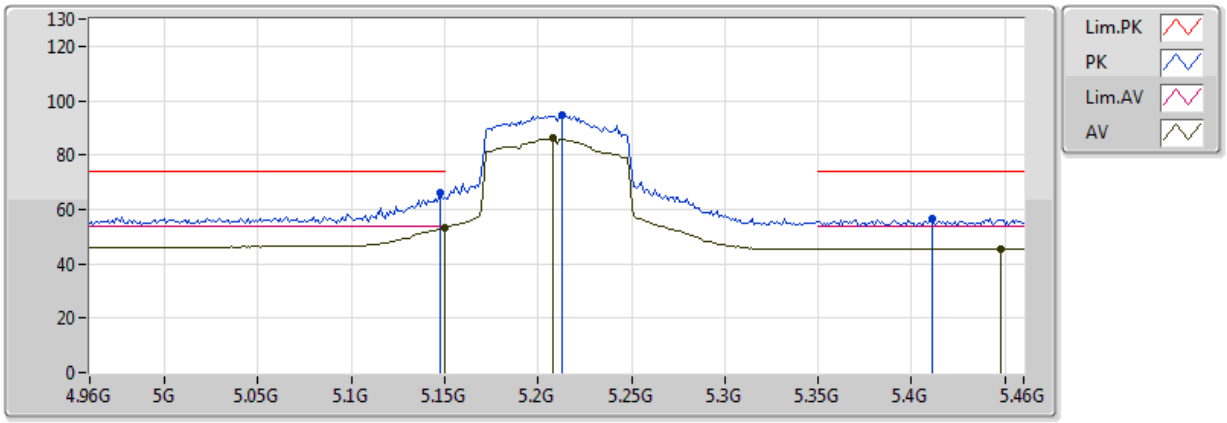


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.69G	46.38	54.00	-7.62	14.10	3	Horizontal	360	1.50	-	32.29	38.35	11.34	35.60
PK	15.69G	57.32	74.00	-16.68	14.10	3	Horizontal	360	1.50	-	43.23	38.35	11.34	35.60

802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_TX

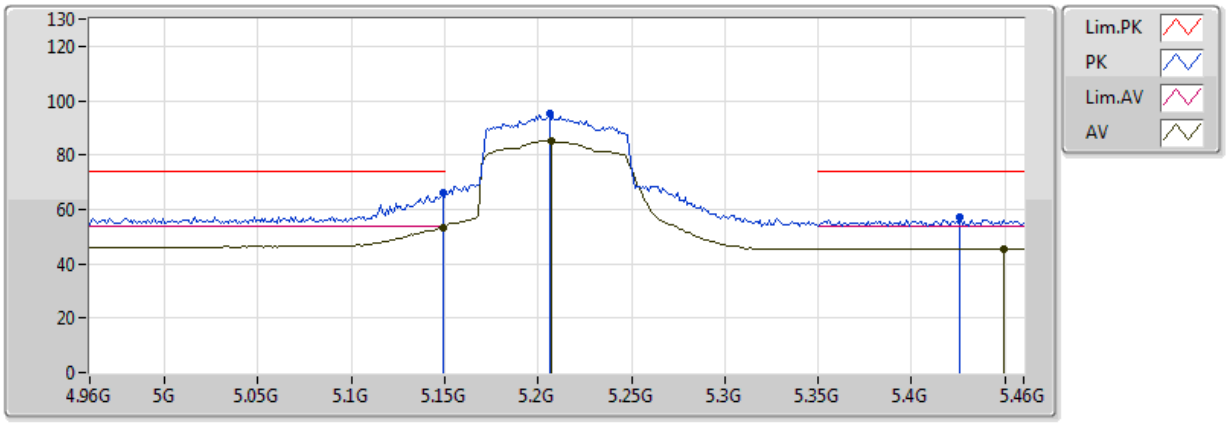


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149995G	53.11	54.00	-0.89	2.90	3	Vertical	339	3.44	-	50.21	31.62	6.48	35.21
AV	5.208G	86.04	Inf	-Inf	2.96	3	Vertical	339	3.44	-	83.08	31.67	6.49	35.20
AV	5.448G	45.60	54.00	-8.40	3.21	3	Vertical	339	3.44	-	42.38	31.86	6.53	35.18
PK	5.148G	66.35	74.00	-7.65	2.90	3	Vertical	339	3.44	-	63.45	31.62	6.48	35.21
PK	5.213G	94.57	Inf	-Inf	2.96	3	Vertical	339	3.44	-	91.60	31.67	6.49	35.20
PK	5.411G	56.37	74.00	-17.63	3.17	3	Vertical	339	3.44	-	53.20	31.83	6.52	35.18

802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_TX

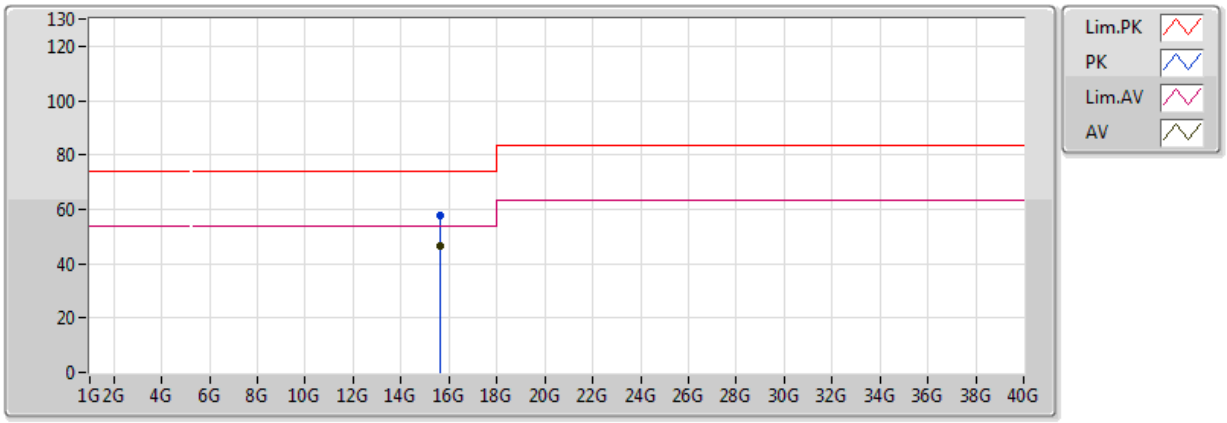


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149G	53.41	54.00	-0.59	2.90	3	Horizontal	288	1.00	-	50.51	31.62	6.48	35.21
AV	5.207G	85.26	Inf	-Inf	2.96	3	Horizontal	288	1.00	-	82.30	31.67	6.49	35.20
AV	5.449G	45.56	54.00	-8.44	3.21	3	Horizontal	288	1.00	-	42.35	31.86	6.53	35.18
PK	5.149G	65.87	74.00	-8.13	2.90	3	Horizontal	288	1.00	-	62.97	31.62	6.48	35.21
PK	5.206G	95.20	Inf	-Inf	2.96	3	Horizontal	288	1.00	-	92.24	31.66	6.49	35.20
PK	5.426G	56.89	74.00	-17.11	3.19	3	Horizontal	288	1.00	-	53.70	31.84	6.53	35.18

802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_TX

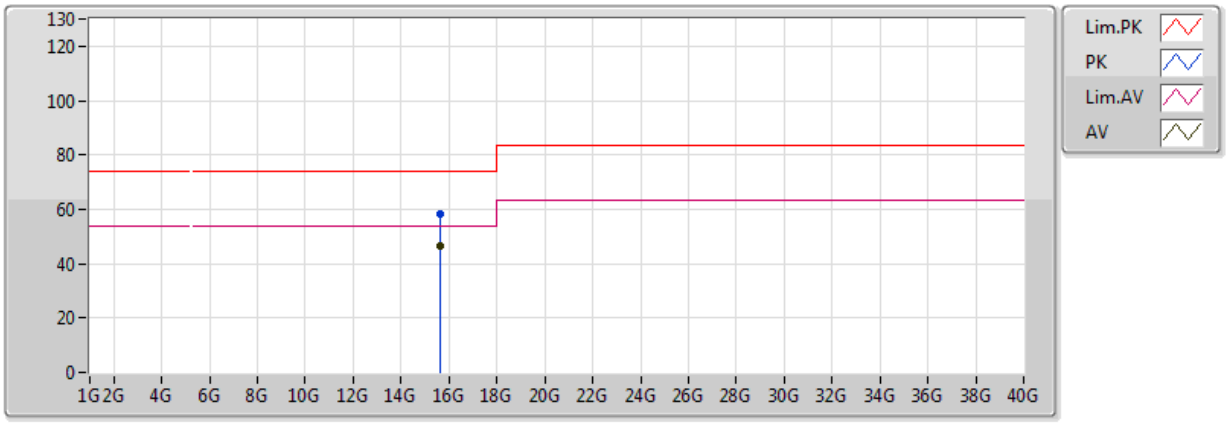


EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.63G	46.68	54.00	-7.32	14.32	3	Vertical	351	1.01	-	32.36	38.56	11.29	35.53
PK	15.63G	57.67	74.00	-16.33	14.32	3	Vertical	351	1.01	-	43.35	38.56	11.29	35.53

802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_TX



EUT = Z axis

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.63G	46.59	54.00	-7.41	14.32	3	Horizontal	0	1.50	-	32.27	38.56	11.29	35.53
PK	15.63G	58.18	74.00	-15.82	14.32	3	Horizontal	0	1.50	-	43.86	38.56	11.29	35.53

Summary

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
5.15-5.25GHz	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	5.2G	5.19996351G	7.017	20	1	10 min

Result

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5200MHz_0°C	Pass	5.2G	5.20001696G	3.262	20	1	0 min
5200MHz_0°C	Pass	5.2G	5.20001696G	3.262	20	1	2 min
5200MHz_0°C	Pass	5.2G	5.20001695G	3.261	20	1	5 min
5200MHz_0°C	Pass	5.2G	5.20001698G	3.265	20	1	10 min
5200MHz_10°C	Pass	5.2G	5.20000868G	1.67	20	1	0 min
5200MHz_10°C	Pass	5.2G	5.2000087G	1.673	20	1	2 min
5200MHz_10°C	Pass	5.2G	5.20000873G	1.68	20	1	5 min
5200MHz_10°C	Pass	5.2G	5.20000868G	1.668	20	1	10 min
5200MHz_20°C	Pass	5.2G	5.19998612G	2.67	20	1	0 min
5200MHz_20°C	Pass	5.2G	5.19998611G	2.671	20	1	2 min
5200MHz_20°C	Pass	5.2G	5.19998609G	2.676	20	1	5 min
5200MHz_20°C	Pass	5.2G	5.19998609G	2.675	20	1	10 min
5200MHz_30°C	Pass	5.2G	5.19997986G	3.872	20	1	0 min
5200MHz_30°C	Pass	5.2G	5.19997987G	3.872	20	1	2 min
5200MHz_30°C	Pass	5.2G	5.19997984G	3.877	20	1	5 min
5200MHz_30°C	Pass	5.2G	5.19997985G	3.876	20	1	10 min
5200MHz_40°C	Pass	5.2G	5.19996352G	7.015	20	1	0 min
5200MHz_40°C	Pass	5.2G	5.19996352G	7.015	20	1	2 min
5200MHz_40°C	Pass	5.2G	5.19996355G	7.011	20	1	5 min
5200MHz_40°C	Pass	5.2G	5.19996351G	7.017	20	1	10 min
5200MHz_138V	Pass	5.2G	5.19998608G	2.677	20	1	0 min
5200MHz_138V	Pass	5.2G	5.1999861G	2.673	20	1	2 min
5200MHz_138V	Pass	5.2G	5.1999861G	2.673	20	1	5 min
5200MHz_138V	Pass	5.2G	5.1999861G	2.672	20	1	10 min
5200MHz_120V	Pass	5.2G	5.1999861G	2.673	20	1	0 min
5200MHz_120V	Pass	5.2G	5.1999861G	2.672	20	1	2 min
5200MHz_120V	Pass	5.2G	5.1999861G	2.673	20	1	5 min
5200MHz_120V	Pass	5.2G	5.1999861G	2.673	20	1	10 min
5200MHz_102V	Pass	5.2G	5.19998612G	2.669	20	1	0 min
5200MHz_102V	Pass	5.2G	5.19998607G	2.678	20	1	2 min
5200MHz_102V	Pass	5.2G	5.1999861G	2.674	20	1	5 min
5200MHz_102V	Pass	5.2G	5.19998609G	2.676	20	1	10 min

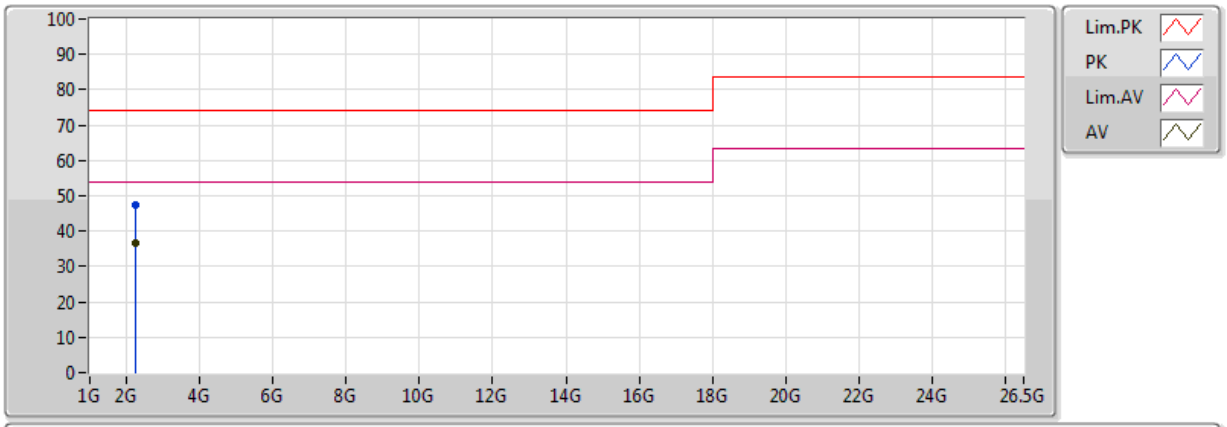
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1.	Pass	AV	2.232G	36.67	54.00	-17.33	-4.07	3	Vertical	0	1.50	-
Mode 2.	Pass	AV	1.6G	28.36	54.00	-25.64	-5.92	3	Vertical	360	1.50	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1.	Pass	AV	2.24G	34.30	54.00	-19.70	-4.04	3	Horizontal	360	1.50	-
Mode 1.	Pass	PK	2.24G	44.08	74.00	-29.92	-4.04	3	Horizontal	360	1.50	-
Mode 1.	Pass	AV	2.232G	36.67	54.00	-17.33	-4.07	3	Vertical	0	1.50	-
Mode 1.	Pass	PK	2.232G	47.32	74.00	-26.68	-4.07	3	Vertical	0	1.50	-
Mode 2.	Pass	AV	2.132G	24.59	54.00	-29.41	-4.37	3	Horizontal	0	1.50	-
Mode 2.	Pass	PK	2.132G	41.22	74.00	-32.78	-4.37	3	Horizontal	0	1.50	-
Mode 2.	Pass	AV	1.6G	28.36	54.00	-25.64	-5.92	3	Vertical	360	1.50	-
Mode 2.	Pass	PK	1.6G	43.94	74.00	-30.06	-5.92	3	Vertical	360	1.50	-

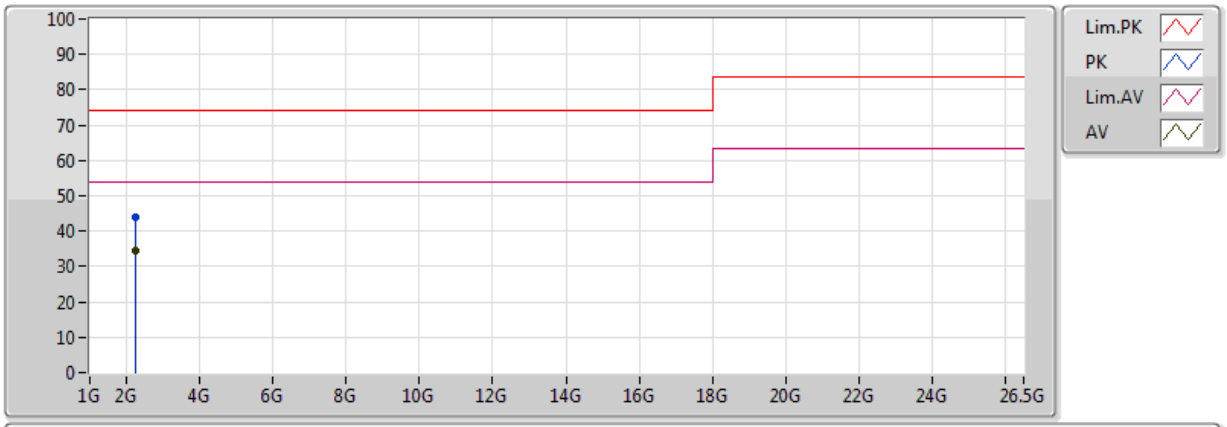
Radiated-above 1GHz_Mode 1



EUT = Z
2.4G+BT

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.232G	36.67	54.00	-17.33	-4.07	3	Vertical	0	1.50	-	40.74	26.90	3.47	34.44
PK	2.232G	47.32	74.00	-26.68	-4.07	3	Vertical	0	1.50	-	51.39	26.90	3.47	34.44

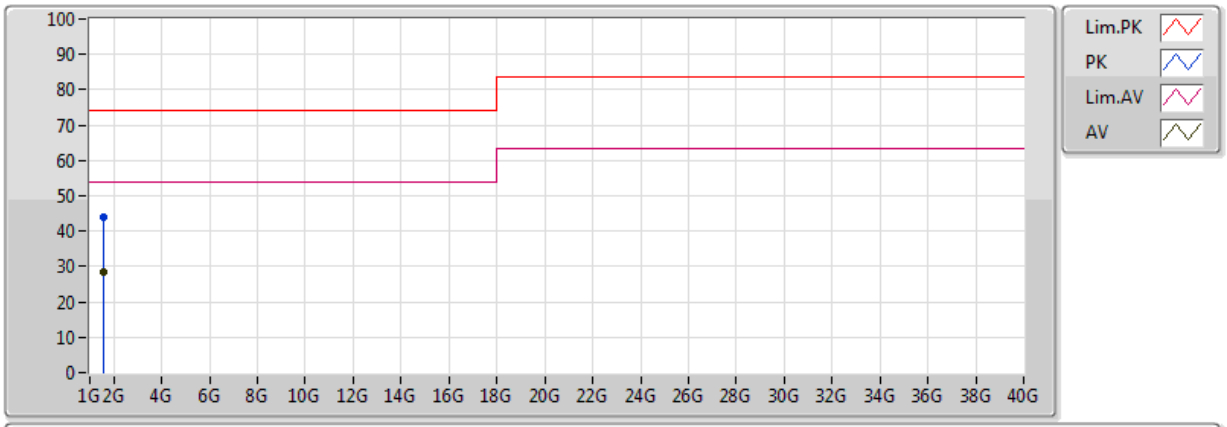
Radiated-above 1GHz_Mode 1



EUT = Z
2.4G+BT

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.24G	34.30	54.00	-19.70	-4.04	3	Horizontal	360	1.50	-	38.34	26.92	3.48	34.45
PK	2.24G	44.08	74.00	-29.92	-4.04	3	Horizontal	360	1.50	-	48.12	26.92	3.48	34.45

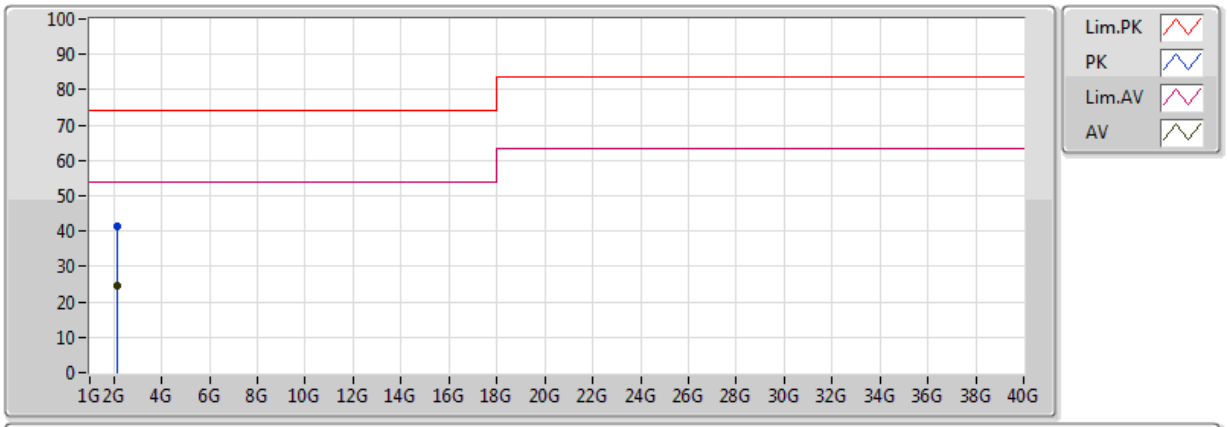
Radiated-above 1GHz_Mode 2



EUT = Z
5G+BT

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	1.6G	28.36	54.00	-25.64	-5.92	3	Vertical	360	1.50	-	34.28	25.66	2.90	34.48
PK	1.6G	43.94	74.00	-30.06	-5.92	3	Vertical	360	1.50	-	49.86	25.66	2.90	34.48

Radiated-above 1GHz_Mode 2



EUT = Z
5G+BT

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.132G	24.59	54.00	-29.41	-4.37	3	Horizontal	0	1.50	-	28.96	26.64	3.38	34.40
PK	2.132G	41.22	74.00	-32.78	-4.37	3	Horizontal	0	1.50	-	45.59	26.64	3.38	34.40