

FCC Test Report

FCC ID : 2AHGTA20201A
Equipment : MEVO
Brand Name : MEVO
Model Name : A20201A
Applicant : Mevo, Inc
19 Morris Ave., Brooklyn Navy Yard, BLDG 128
Brooklyn US 11205 United States Of America
Manufacturer : Chicony Electronics Co.,Ltd.
No.69, Sec. 2, Guangfu Rd., Sanchong Dist. New Taipei
City 241 Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Dec. 07, 2018, and testing was started from Mar. 09, 2019 and completed on Apr. 11, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Allen Lin

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



Summary of Test Result

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

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and explanations:
None

Reviewed by: Sam Tsai

Report Producer: Kate Lo

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20)	5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX

Note:

- ♦ 11a and HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20 uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Mevo	GY196HT337-012	PIFA Antenna	I-PEX
2	Mevo	GY196HT337-011	PIFA Antenna	I-PEX

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	1	1.2	1.16	1.2
2	2	-0.86	1.20	-

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Only Ant. 1 (port 1) can be used as transmitting/receiving.

For 5GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

1.1.3 EUT Information

Identify EUT			
HVIN	A20201A		
Operational Condition			
EUT Power Type	From AC Adapter		
EUT Function	<input type="checkbox"/>	Outdoor	<input checked="" type="checkbox"/> Indoor
	<input type="checkbox"/>	Fixed P2P	<input checked="" type="checkbox"/> Client
Beamforming Function	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/> Without beamforming
TPC Function	<input type="checkbox"/>	With TPC Function	<input checked="" type="checkbox"/> Without TPC Function
Weather Band	<input checked="" type="checkbox"/>	With 5600~5650MHz	<input type="checkbox"/> Without 5600~5650MHz
Type of EUT			
<input checked="" type="checkbox"/>	Stand-alone		
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.: ...		
<input type="checkbox"/>	Other:		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.936	0.29	1.431m	1k
802.11ac VHT20	0.932	0.31	1.347m	1k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR780412AN

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

Modifications	Performance Checking
1.Frequency bands U-NII-2A and U-NII-2C was added.	All
2. Equipment & Brand name & Applicant & Manufacturer are updated.	N/A

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 v02r01
- ◆ KDB 662911 D01 v02r01
- ◆ KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location			
<input checked="" type="checkbox"/>	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.			
<input type="checkbox"/>	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	TH06-HY	Clara	19.4~22.0°C / 60.5~63.6%	09/Mar/2019~ 11/Apr/2019
Radiated	03CH03-HY	Andy	21.6~22.8°C / 51.6~53.2%	03/Apr/2019~ 10/Apr/2019

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)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V




2.2 Test Channel Mode

Test Software	DoS
---------------	-----

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	88
5300MHz	88
5320MHz	88
5500MHz	88
5580MHz	88
5700MHz	88
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5260MHz	88
5300MHz	88
5320MHz	88
5500MHz	72
5580MHz	88
5700MHz	71

2.3 The Worst Case Measurement Configuration

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

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

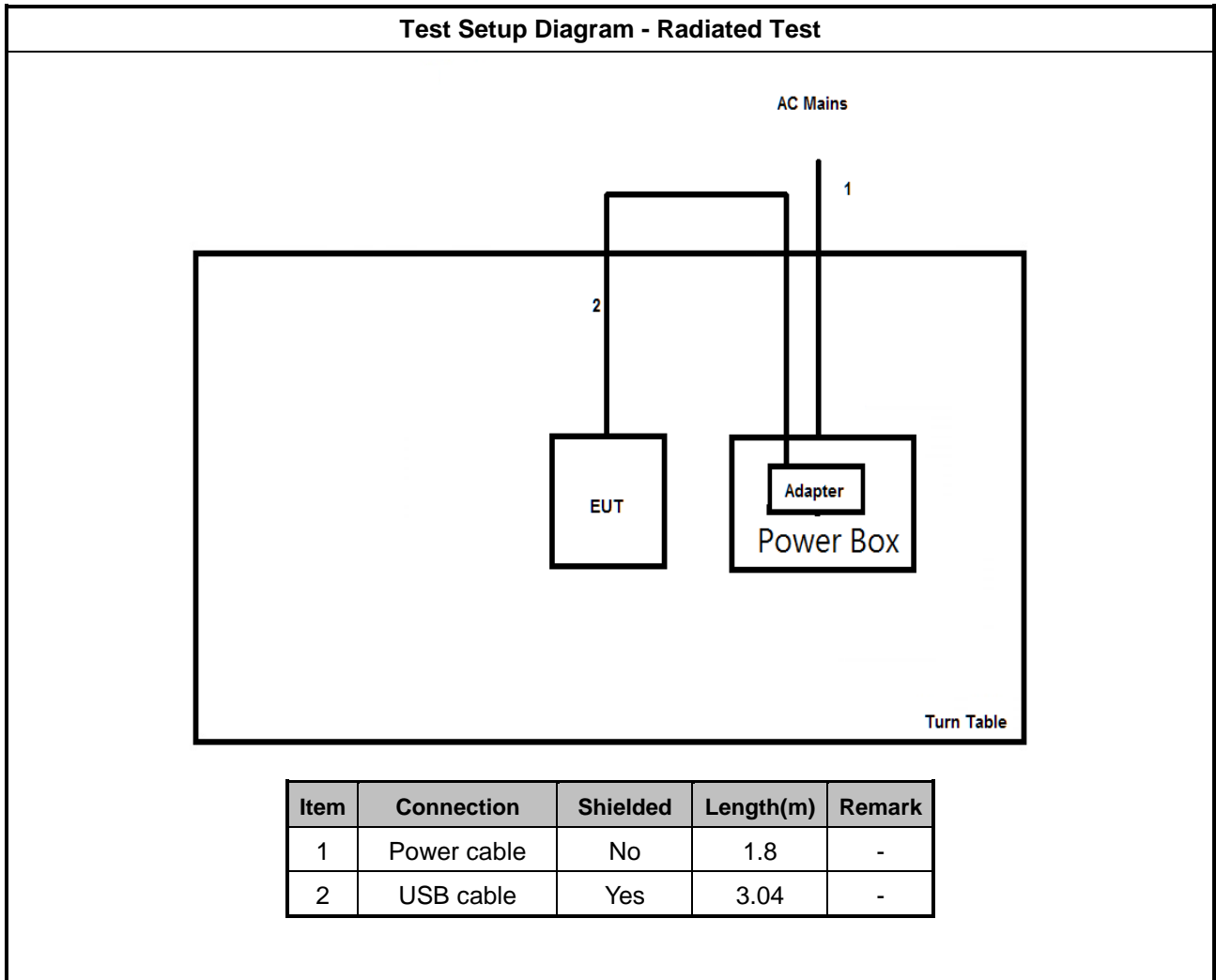
2.4 Accessories and Support Equipment

Accessories				
AC Adapter (US PLUG)	Brand Name	I.T.E	Model Name	KSA29B0500200D5
	Power Rating	I/P: 100 - 240Vac, 0.5A, O/P: 5.0Vdc, 2.0A		
Data Cable	Brand Name	Mevo		
	Signal Line	3.04 meter, shielded cable, without ferrite core		
Li-ion Battery	Brand Name	FUJI	Model Name	901935
	Power Rating	3.7V/1200mAh 4.44Wh		

Reminder: Regarding to more detail and other information, please refer to user manual.

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 Power Source	GW	APS-9102	-

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, N/A
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.

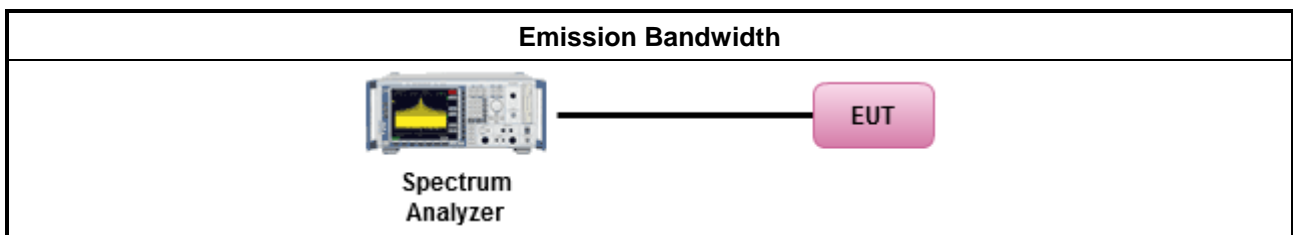
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: 	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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 $\leq 125mW$ [21dBm]
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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 $P_{Out} = 30 - (G_{TX} - 23)$.
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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 $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	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 $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	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 $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.725-5.85 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ 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 $P_{Out} = 30 - (G_{TX} - 6)$.
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

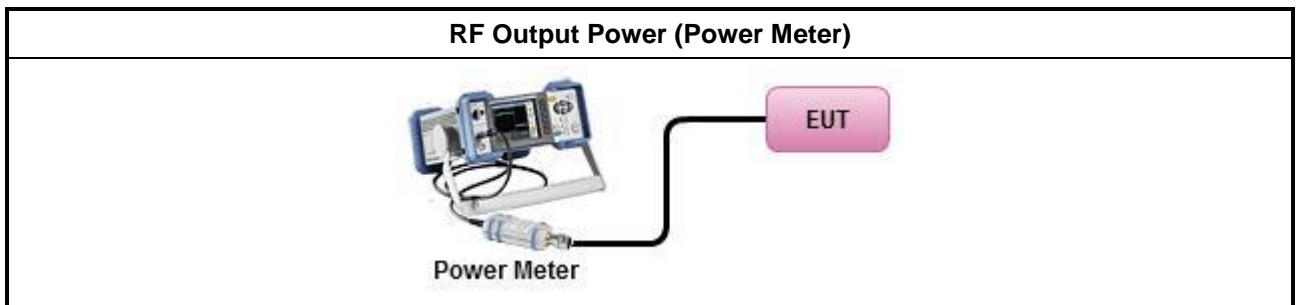
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Maximum Conducted Output Power 	
	Duty cycle \geq 98%
<input type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $<$ 98%
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method PM (using an RF average power meter).
<ul style="list-style-type: none"> For conducted measurement. 	
	<ul style="list-style-type: none"> 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.
	<ul style="list-style-type: none"> If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$.
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.725-5.85 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$.
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
<p>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</p> <p>G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

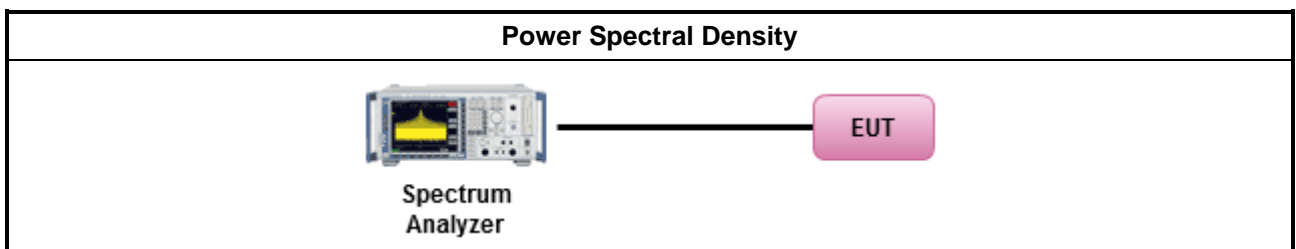
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ 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: 	
<input type="checkbox"/>	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%	
<input type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
Duty cycle < 98%	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: 	
	<ul style="list-style-type: none"> ▪ 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.
	<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 Transmitter 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.

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	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).	

3.4.2 Measuring Instruments

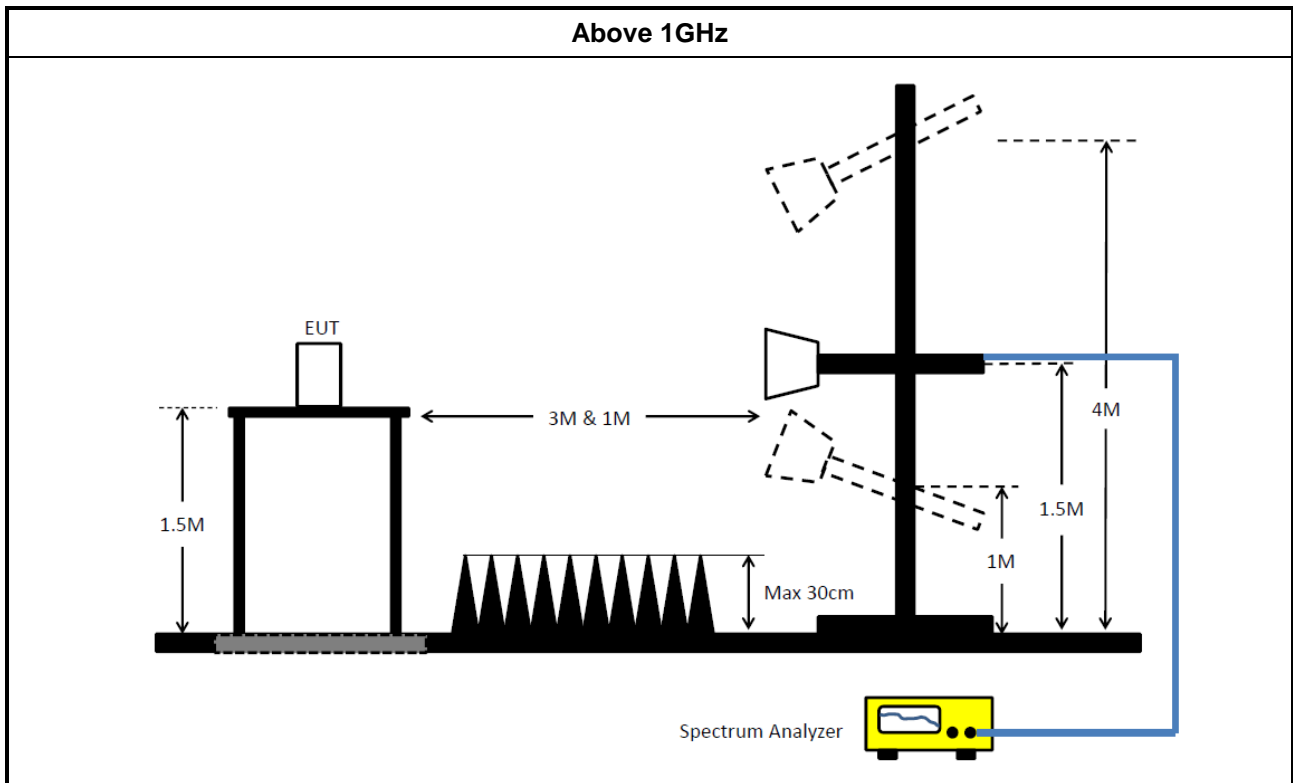
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> 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). 	
<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW. <input checked="" type="checkbox"/> Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit. 	
<ul style="list-style-type: none"> For radiated measurement. <ul style="list-style-type: none"> 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. 	

Test Method
<ul style="list-style-type: none"> ▪ The any unwanted emissions level shall not exceed the fundamental emission level. ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.4.4 Test Setup



3.4.5 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.

3.4.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	30/Oct/2018	29/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	30/Oct/2018	29/Oct/2019
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	23/Apr/2018	19/Apr/2019
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	22/Apr/2019	21/Apr/2020
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	09/Apr/2019	08/Apr/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER/MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	08/Sep/2018	07/Sep/2019
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz~26.5GHz	09/Sep/2019	08/Sep/2020
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	18/Jul/2018	17/Jul/2019
Signal Analyzer	R&S	FSP40	100305	9kHz~40GHz; -140~+30dBm	10/Jun/2019	09/Jun/2020
RF Cable	HUBER+SUHNER	SUCOFLEX 102	MY2579/2	100kHz~40GHz	13/Jun/2018	12/Jun/2019
RF Cable	HUBER+SUHNER	SUCOFLEX 102	MY2580/2	100kHz~40GHz	10/May/2018	09/May/2019
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~1GHz	22/Mar/2019	21/Mar/2020
RF CABLE 6m	HUBER+SUHNER	SUOFLEX 104	SN 805801/4	1GHz~40GHz	21/Mar/2019	20/Mar/2020
RF CABLE	HUBER+SUHNER	SUOFLEX 104	802378/4	1 GHz~18 GHz	04/Jul/2019	03/Jul/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	22/Mar/ 2019	21/Mar/ 2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	09/Mar/ 2019	08/Mar/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k~30MHz	15/Mar/2019	14/Mar/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	05/Aug/2019	04/Aug/2020



Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101500	10Hz~40GHz	18/Jul/2018	17/Jul/2019
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.5m	HUBER	MY39470/4	RF Cable - 29	30MHz ~18G	10/Jan/2019	09/Jan/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	41.8M	16.892M	16M9D1D	25.35M	16.792M
802.11ac VHT20_Nss1,(MCS0)_2TX	28.5M	17.916M	17M9D1D	25.475M	17.516M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	33.9M	16.942M	16M9D1D	24.175M	16.592M
802.11ac VHT20_Nss1,(MCS0)_2TX	31.7M	17.916M	17M9D1D	21.8M	17.491M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	41.8M	16.867M	35.375M	16.892M
5300MHz	Pass	Inf	26.075M	16.792M	26.375M	16.842M
5320MHz	Pass	Inf	25.35M	16.817M	26.475M	16.842M
5500MHz	Pass	Inf	24.175M	16.792M	24.95M	16.917M
5580MHz	Pass	Inf	29.575M	16.592M	31.425M	16.667M
5700MHz	Pass	Inf	28.425M	16.917M	33.9M	16.942M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	28.5M	17.516M	25.925M	17.541M
5300MHz	Pass	Inf	27.15M	17.916M	25.475M	17.891M
5320MHz	Pass	Inf	27.525M	17.891M	27.05M	17.866M
5500MHz	Pass	Inf	21.95M	17.816M	21.825M	17.841M
5580MHz	Pass	Inf	28.65M	17.491M	31.7M	17.591M
5700MHz	Pass	Inf	21.95M	17.816M	21.8M	17.916M

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

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

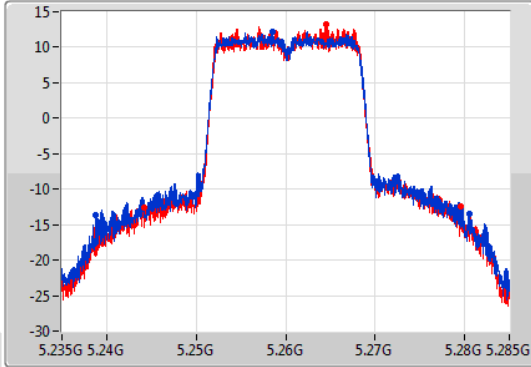
802.11a_Nss1,(6Mbps)_2TX

EBW

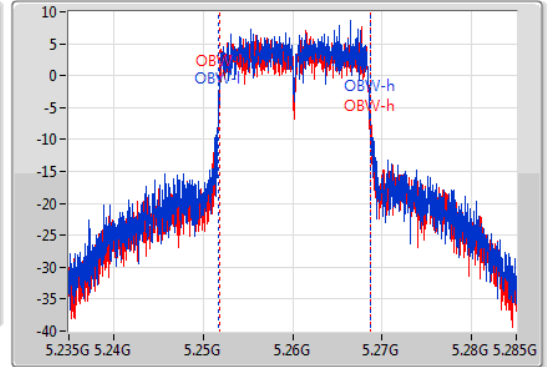
5260MHz

09/03/2019

CF: 5.26GHz
 Span: 50MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.26GHz
 Span: 50MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.8M	5.2388G	5.2806G	16.867M	5.251779G	5.268646G	Inf	1
35.375M	5.244125G	5.2795G	16.892M	5.251804G	5.268696G	Inf	2

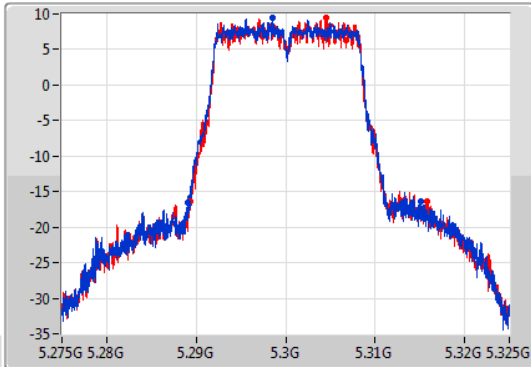
802.11a_Nss1,(6Mbps)_2TX

EBW

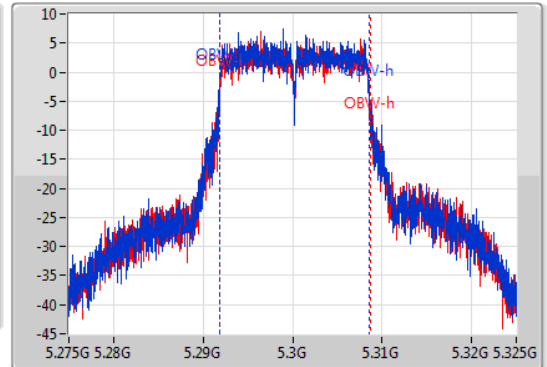
5300MHz

09/03/2019

CF: 5.3GHz
 Span: 50MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.3GHz
 Span: 50MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.075M	5.289G	5.315075G	16.792M	5.291829G	5.308621G	Inf	1
26.375M	5.2894G	5.315775G	16.842M	5.291804G	5.308646G	Inf	2

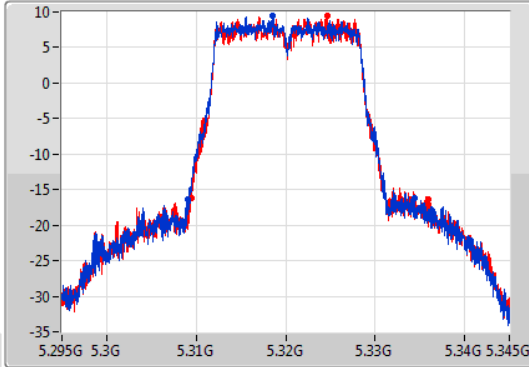
802.11a_Nss1,(6Mbps)_2TX

EBW

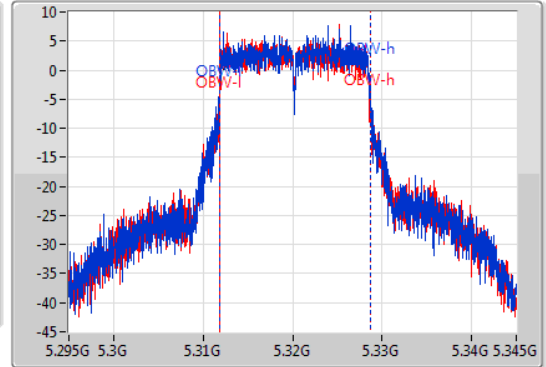
5320MHz

09/03/2019

CF
5.32GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.32GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.35M	5.30905G	5.3344G	16.817M	5.311829G	5.328646G	Inf	1
26.475M	5.30945G	5.335925G	16.842M	5.311829G	5.328671G	Inf	2

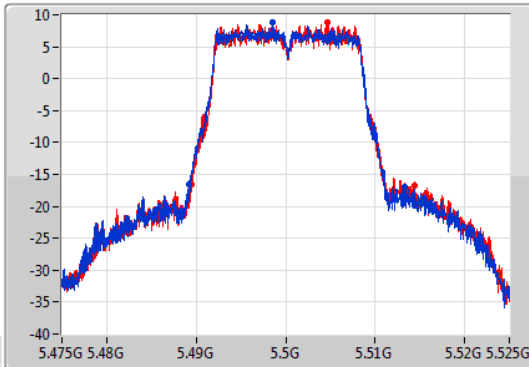
802.11a_Nss1,(6Mbps)_2TX

EBW

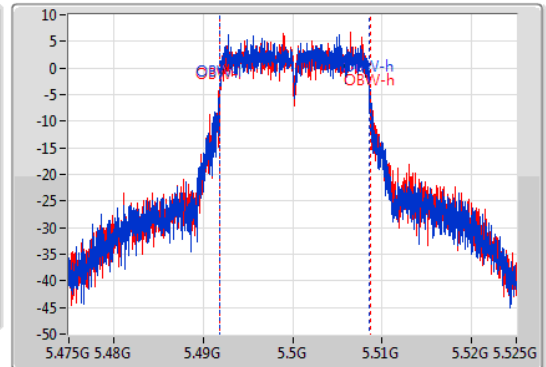
5500MHz

09/03/2019

CF
5.5GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.5GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.175M	5.489175G	5.51335G	16.792M	5.491804G	5.508596G	Inf	1
24.95M	5.4895G	5.51445G	16.917M	5.491804G	5.508721G	Inf	2

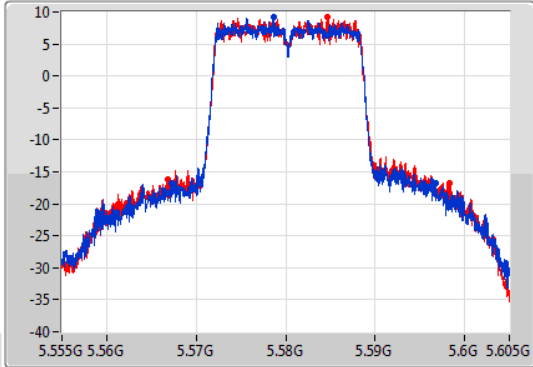
802.11a_Nss1,(6Mbps)_2TX

EBW

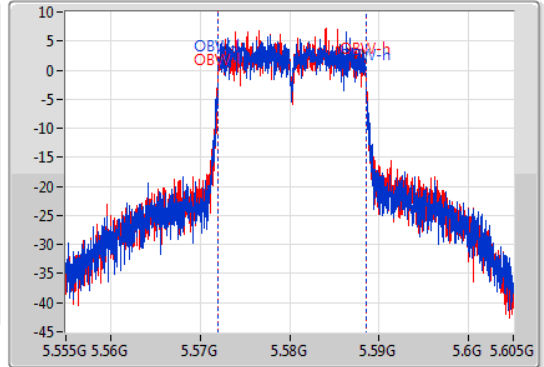
5580MHz

09/03/2019

CF
5.58GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.58GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.575M	5.5672G	5.596775G	16.592M	5.571979G	5.588571G	Inf	1
31.425M	5.566875G	5.5983G	16.667M	5.571954G	5.588621G	Inf	2

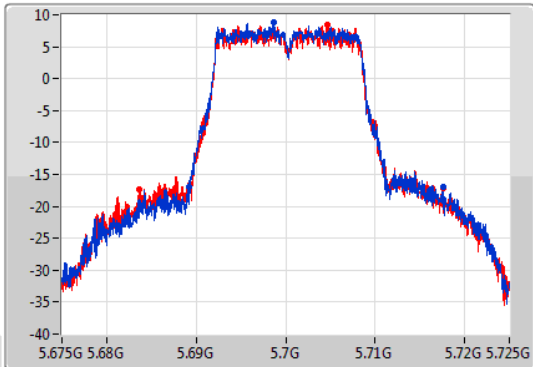
802.11a_Nss1,(6Mbps)_2TX

EBW

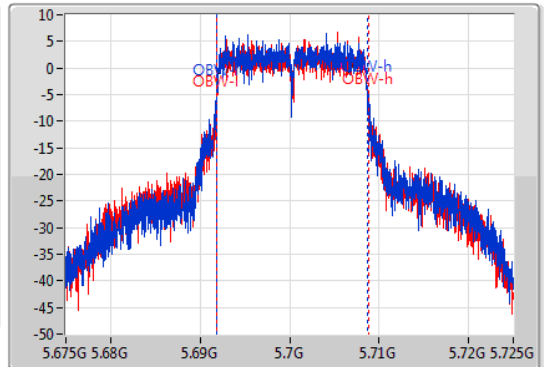
5700MHz

09/03/2019

CF
5.7GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.7GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.425M	5.68915G	5.717575G	16.917M	5.691854G	5.708771G	Inf	1
33.9M	5.683675G	5.717575G	16.942M	5.691879G	5.708821G	Inf	2

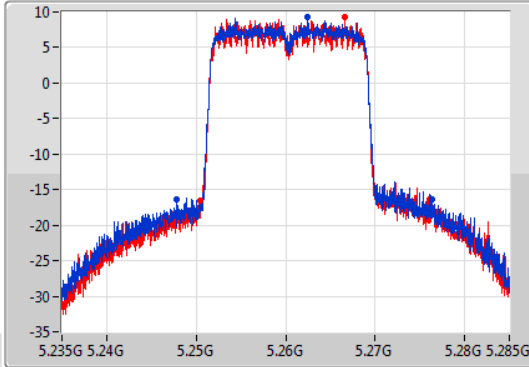
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

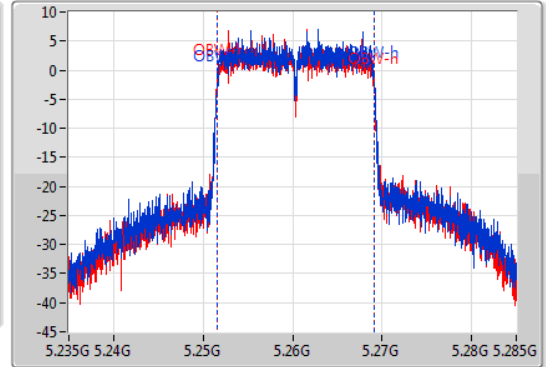
5260MHz

09/03/2019

CF
5.26GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.26GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.5M	5.2478G	5.2763G	17.516M	5.251604G	5.26912G	Inf	1
25.925M	5.2504G	5.276325G	17.541M	5.251579G	5.26912G	Inf	2

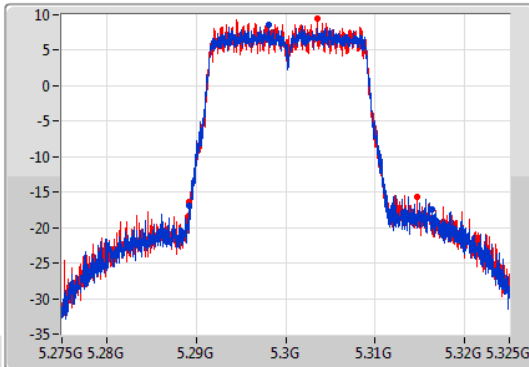
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

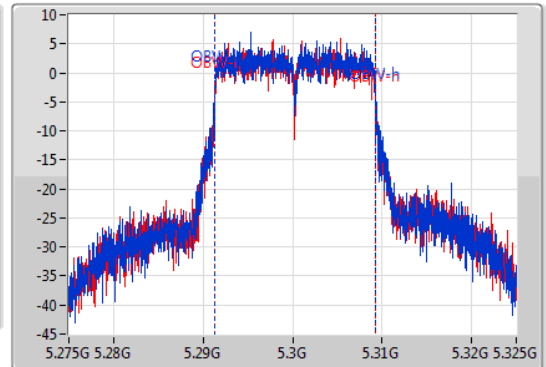
5300MHz

09/03/2019

CF
5.3GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.3GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.15M	5.289175G	5.316325G	17.916M	5.291329G	5.309245G	Inf	1
25.475M	5.289225G	5.3147G	17.891M	5.291354G	5.309245G	Inf	2

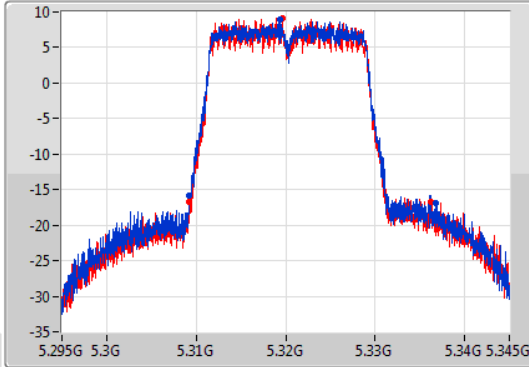
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

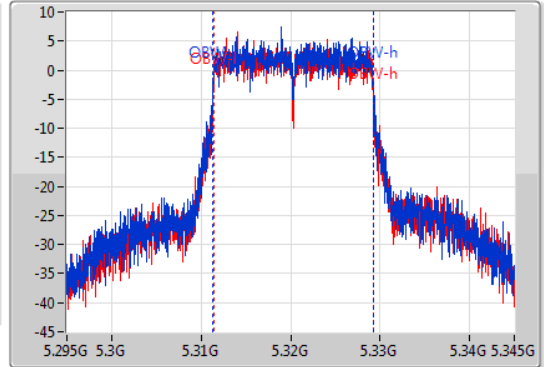
5320MHz

09/03/2019

CF
5.32GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.32GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.525M	5.309275G	5.3368G	17.891M	5.311354G	5.329245G	Inf	1
27.05M	5.309225G	5.336275G	17.866M	5.311379G	5.329245G	Inf	2

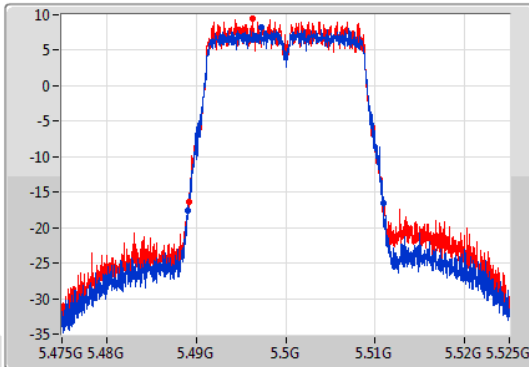
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

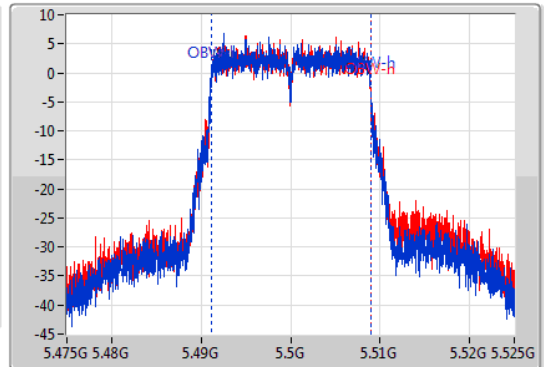
5500MHz

11/04/2019

CF
5.5GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.5GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



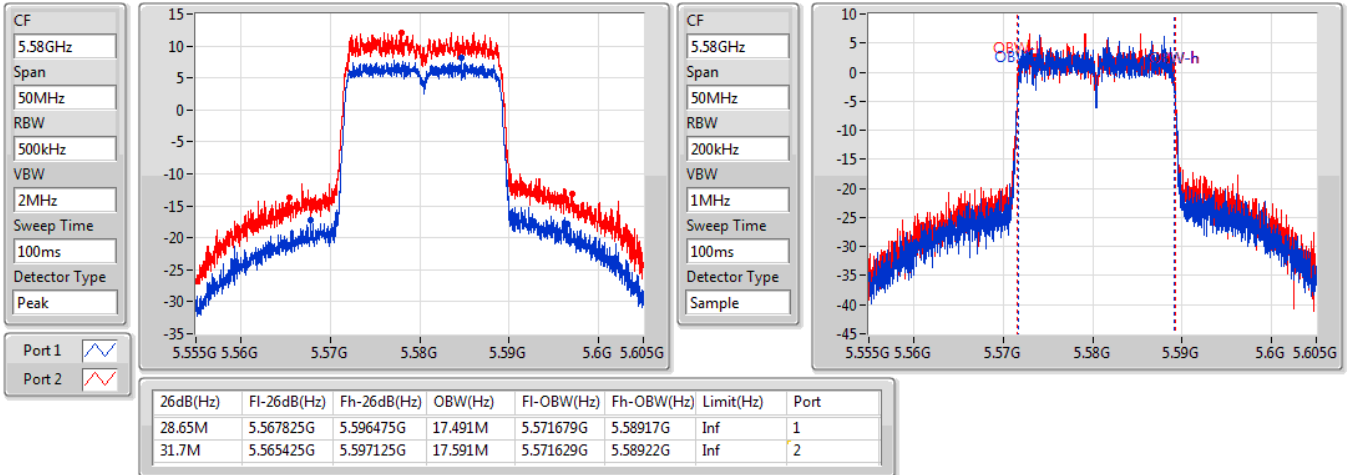
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.95M	5.489G	5.51095G	17.816M	5.491104G	5.508921G	Inf	1
21.825M	5.48915G	5.510975G	17.841M	5.491104G	5.508946G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5580MHz

09/03/2019

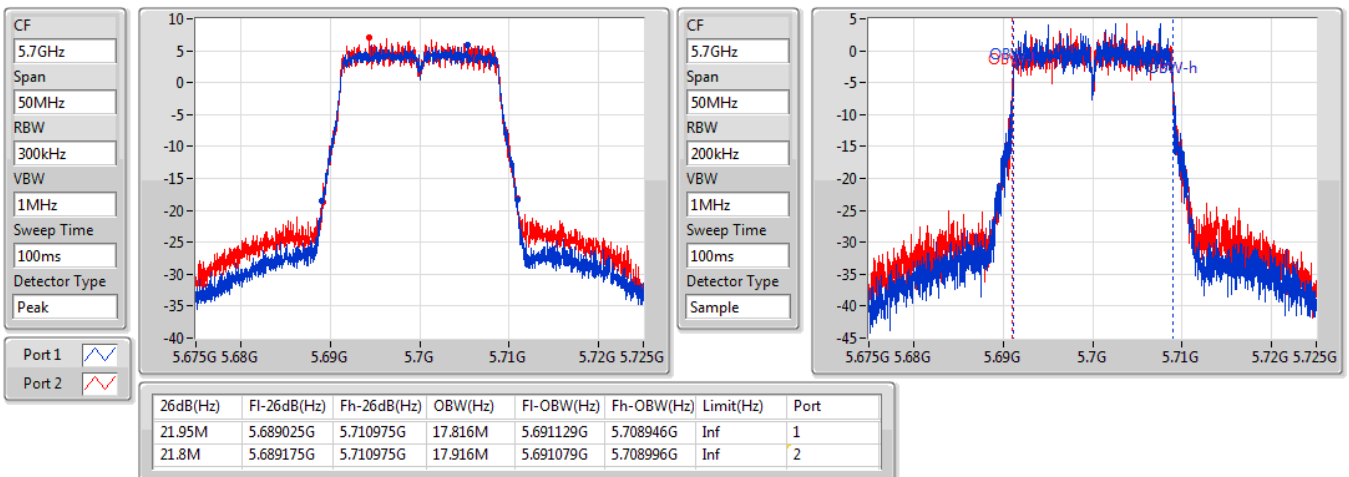


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5700MHz

08/04/2019





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.31	0.13521	22.51	0.17824
802.11ac VHT20_Nss1,(MCS0)_2TX	20.66	0.11641	21.86	0.15346
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.55	0.11350	21.75	0.14962
802.11ac VHT20_Nss1,(MCS0)_2TX	20.29	0.10691	21.49	0.14093



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	1.20	18.44	18.16	21.31	24.00	22.51	26.99
5300MHz	Pass	1.20	17.83	17.52	20.69	24.00	21.89	26.99
5320MHz	Pass	1.20	17.87	17.56	20.73	24.00	21.93	26.99
5500MHz	Pass	1.20	17.13	16.98	20.07	24.00	21.27	26.99
5580MHz	Pass	1.20	17.59	17.48	20.55	24.00	21.75	26.99
5700MHz	Pass	1.20	17.24	16.69	19.98	24.00	21.18	26.99
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	1.20	17.93	17.35	20.66	24.00	21.86	26.99
5300MHz	Pass	1.20	17.28	16.98	20.14	24.00	21.34	26.99
5320MHz	Pass	1.20	17.46	17.00	20.25	24.00	21.45	26.99
5500MHz	Pass	1.20	17.17	17.38	20.29	24.00	21.49	26.99
5580MHz	Pass	1.20	16.98	17.25	20.13	24.00	21.33	26.99
5700MHz	Pass	1.20	15.92	15.85	18.90	24.00	20.10	26.99

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



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.71	12.92
802.11ac VHT20_Nss1,(MCS0)_2TX	7.46	11.67
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	7.44	11.65
802.11ac VHT20_Nss1,(MCS0)_2TX	7.00	11.21

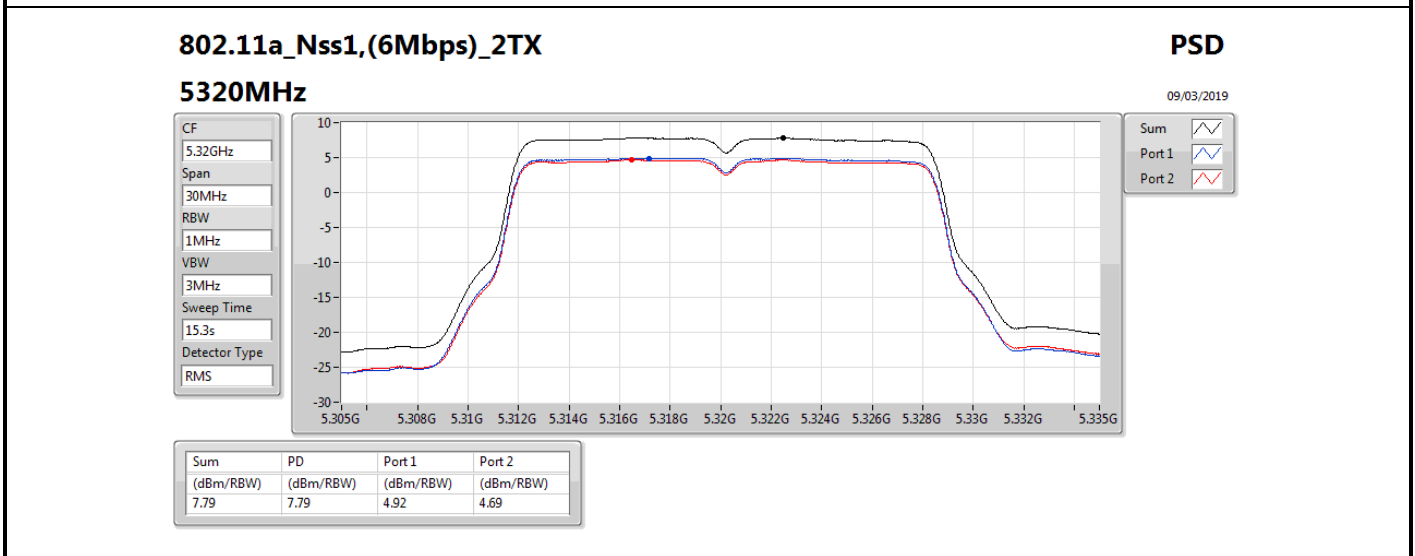
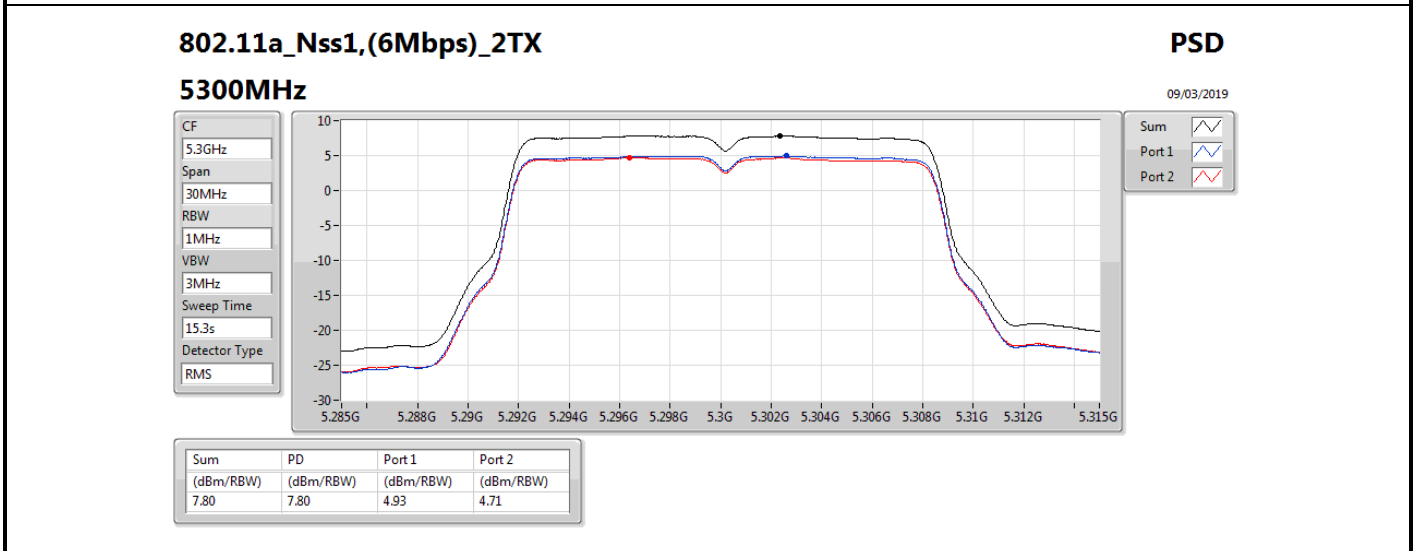
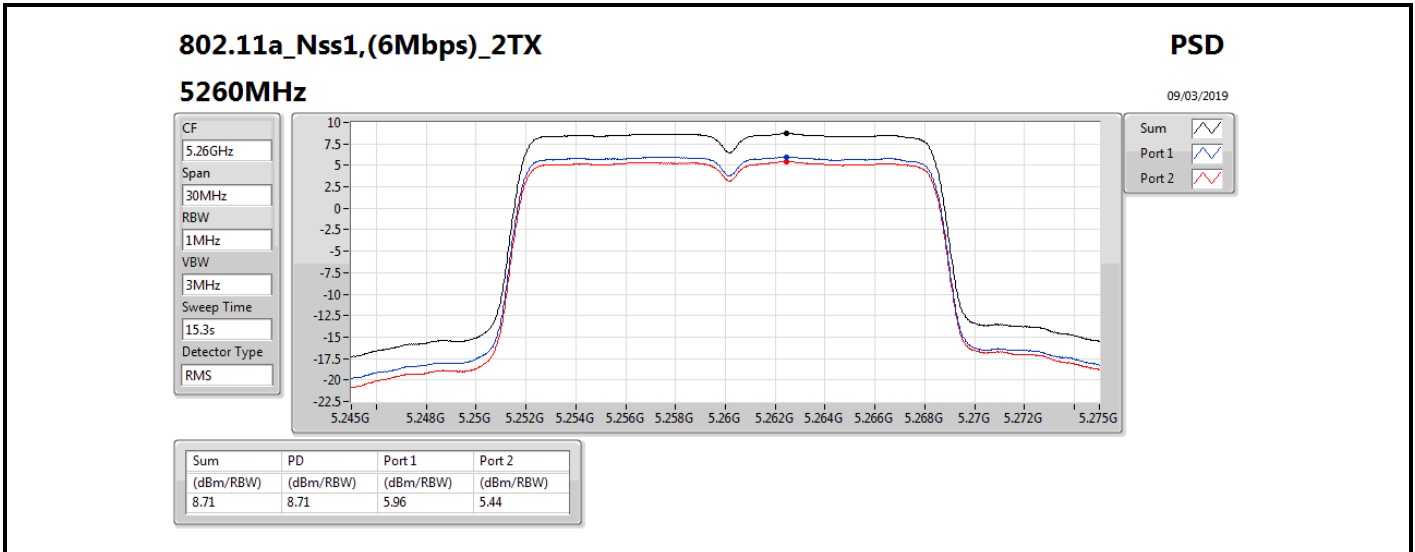
RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

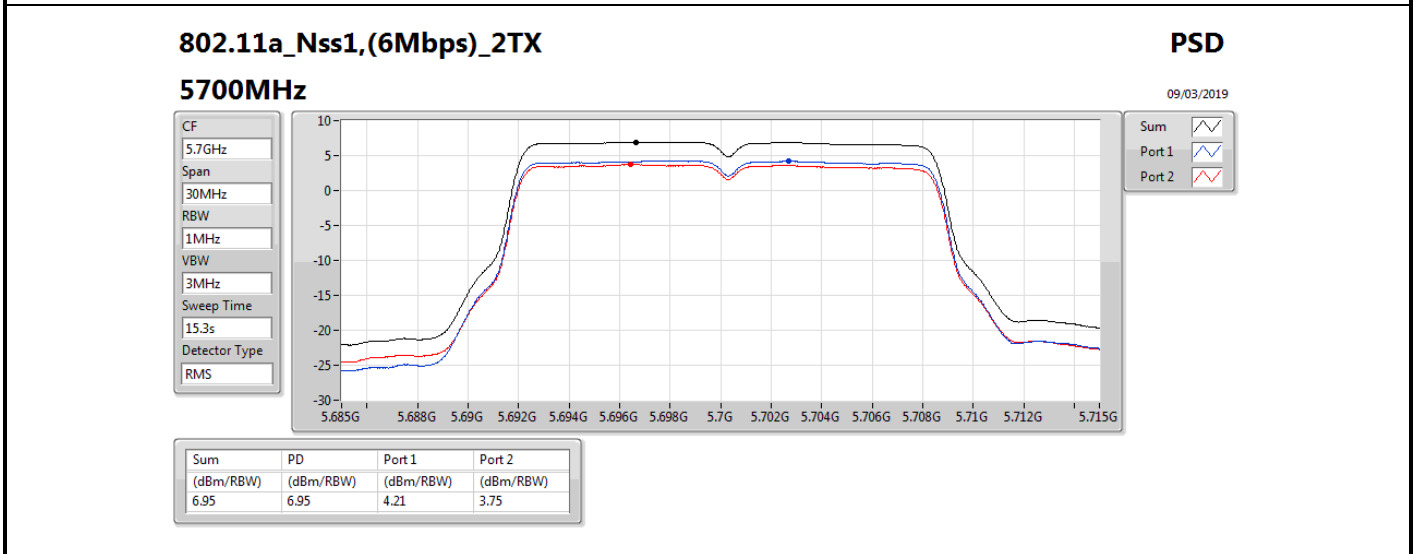
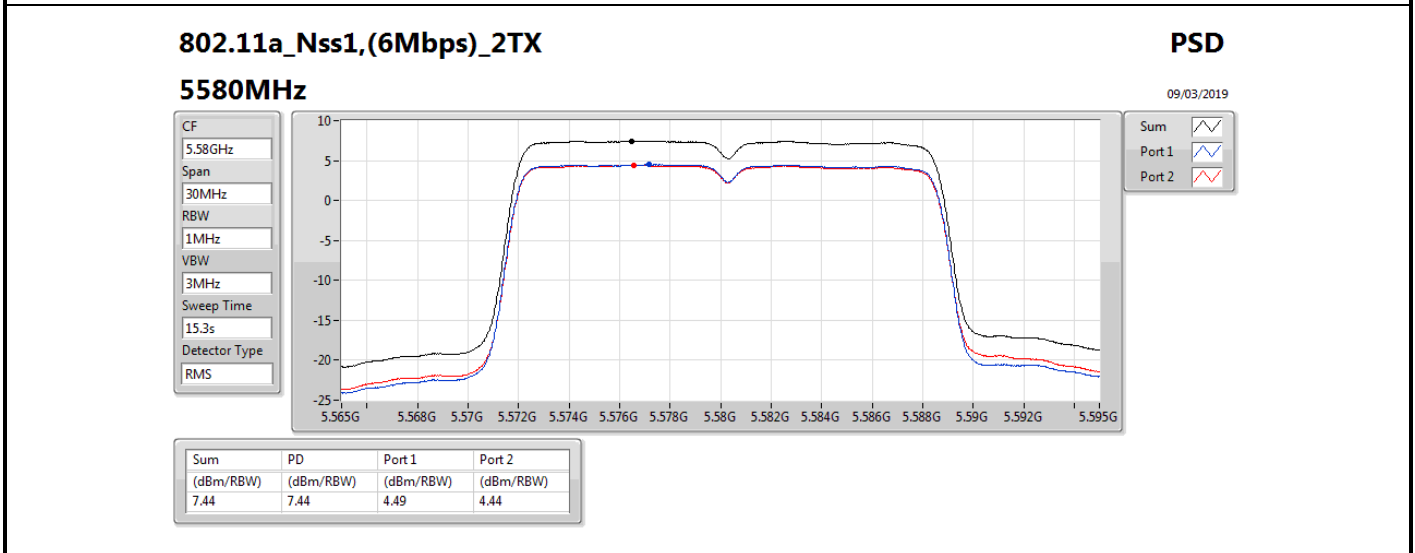
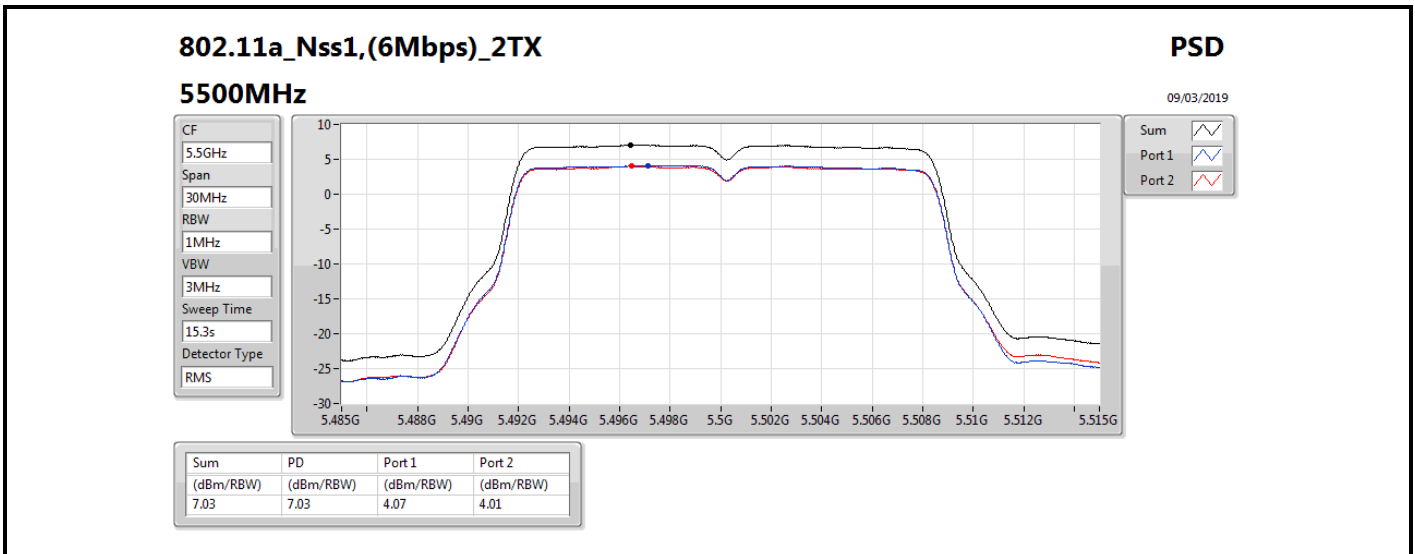
Result

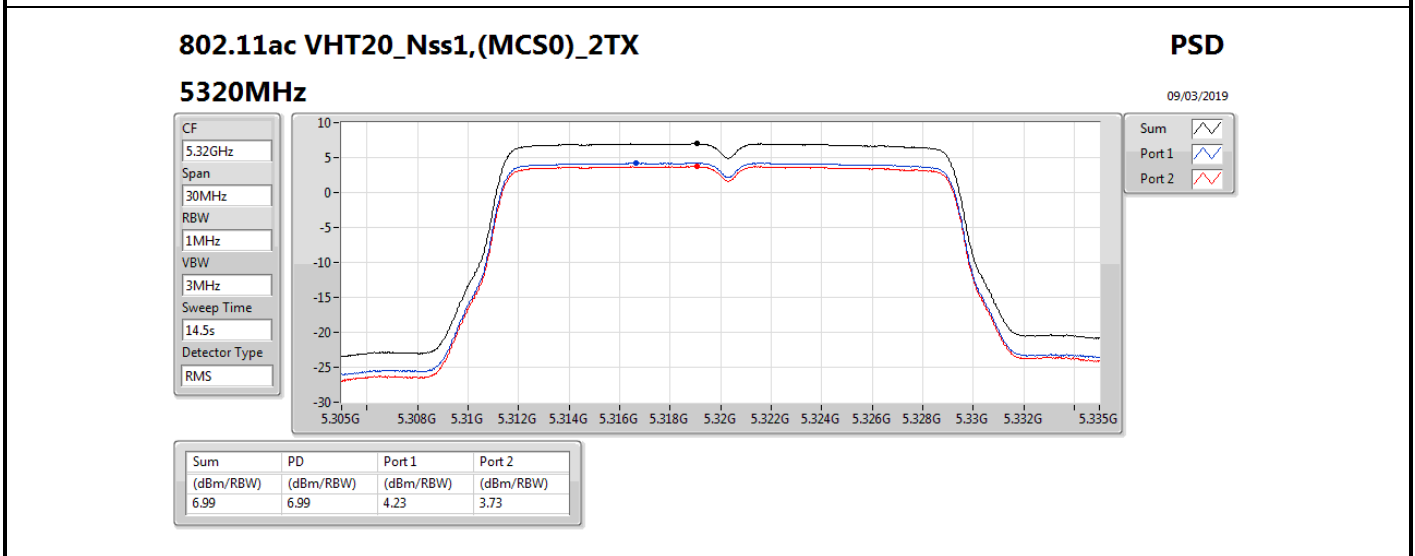
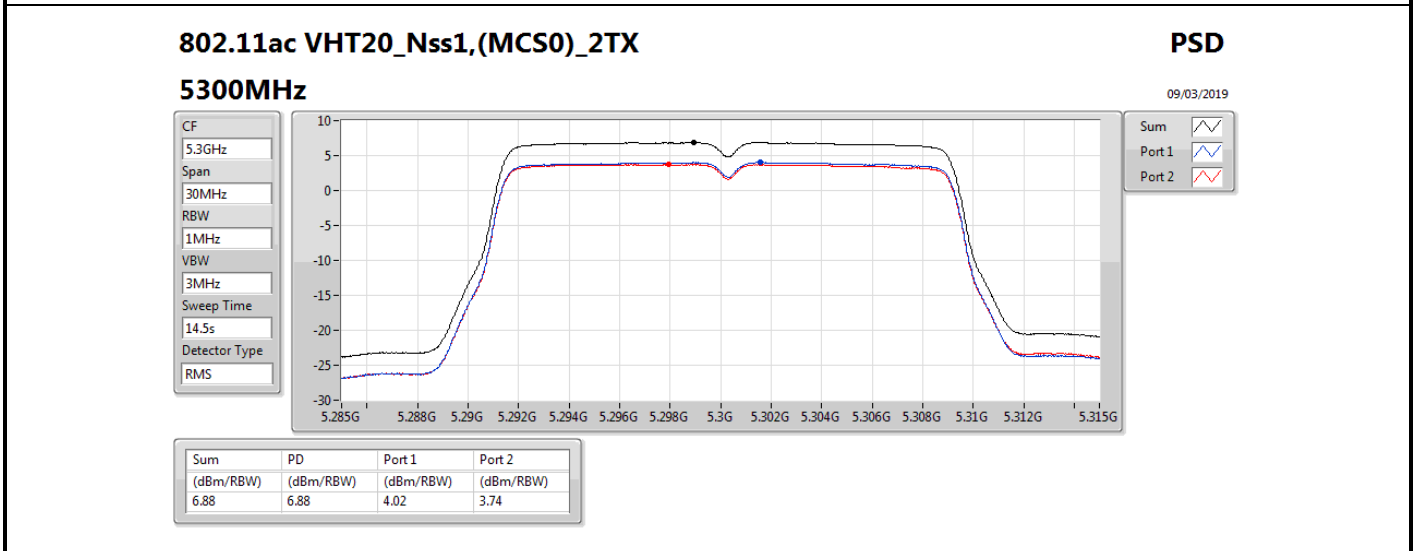
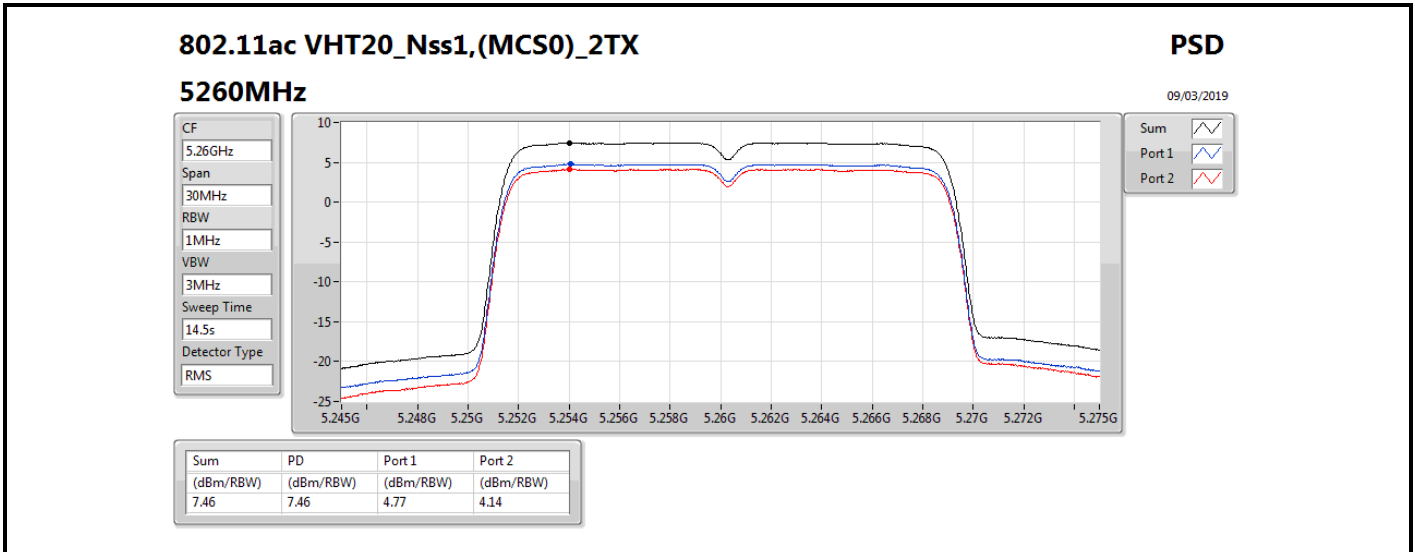
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.21	5.96	5.44	8.71	11.00	12.92	17.00
5300MHz	Pass	4.21	4.93	4.71	7.80	11.00	12.01	17.00
5320MHz	Pass	4.21	4.92	4.69	7.79	11.00	12.00	17.00
5500MHz	Pass	4.21	4.07	4.01	7.03	11.00	11.24	17.00
5580MHz	Pass	4.21	4.49	4.44	7.44	11.00	11.65	17.00
5700MHz	Pass	4.21	4.21	3.75	6.95	11.00	11.16	17.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	4.21	4.77	4.14	7.46	11.00	11.67	17.00
5300MHz	Pass	4.21	4.02	3.74	6.88	11.00	11.09	17.00
5320MHz	Pass	4.21	4.23	3.73	6.99	11.00	11.20	17.00
5500MHz	Pass	4.21	3.89	4.11	7.00	11.00	11.21	17.00
5580MHz	Pass	4.21	3.77	4.00	6.89	11.00	11.10	17.00
5700MHz	Pass	4.21	1.24	1.20	4.21	11.00	8.42	17.00

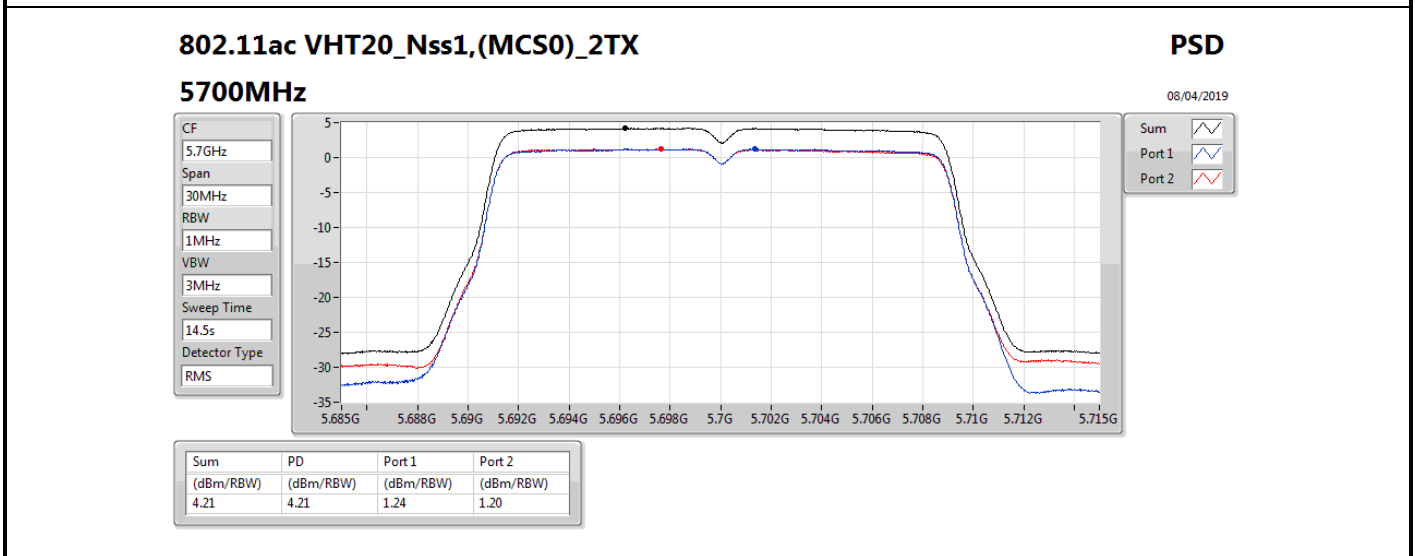
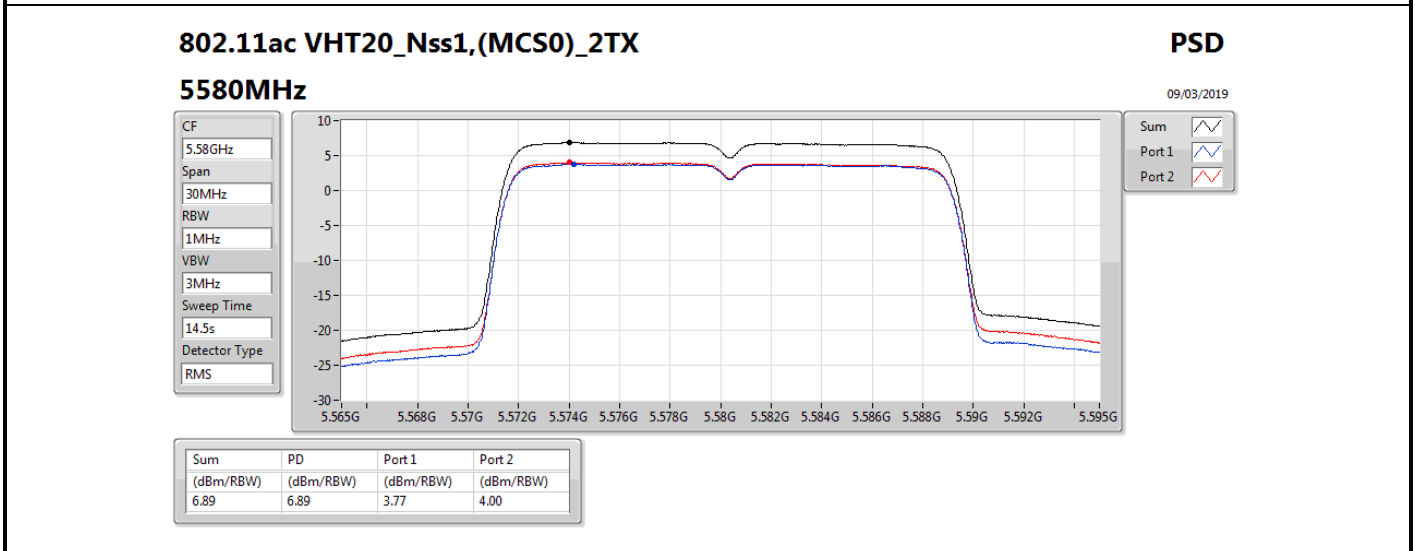
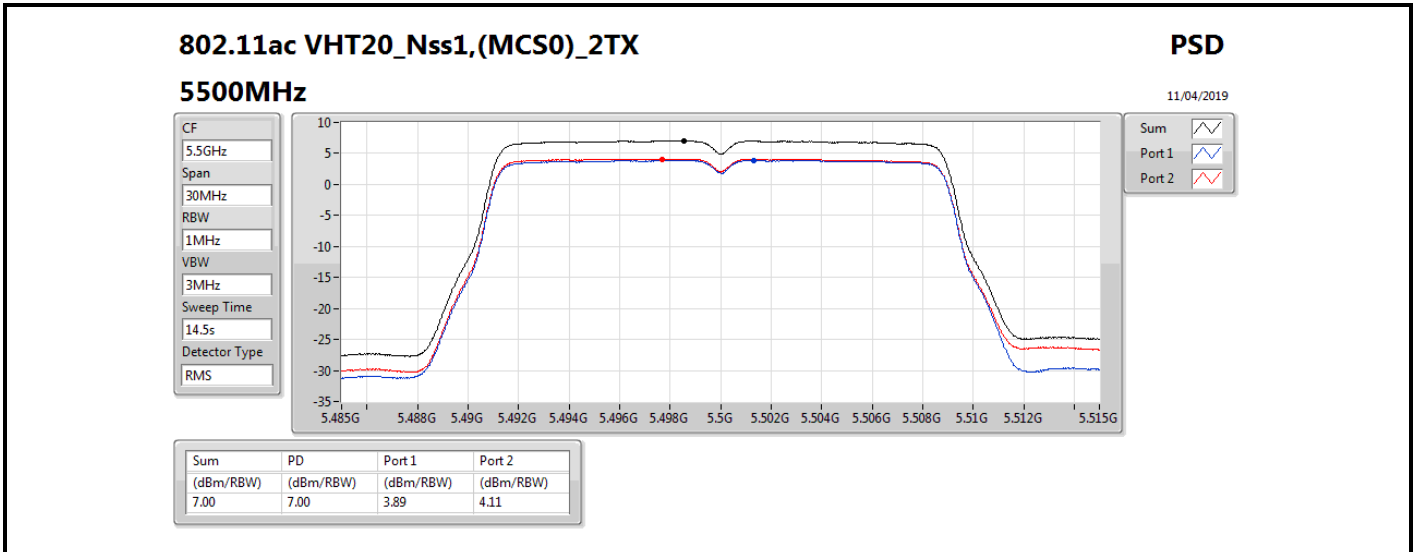
DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

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











Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	5.3504G	45.51	54.00	-8.49	4.32	3	Horizontal	162	2.39	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	5.35G	46.56	54.00	-7.44	4.32	3	Horizontal	166	2.04	-
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	5.4696G	63.73	68.20	-4.47	4.47	3	Horizontal	165	1.42	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	PK	5.4682G	67.79	68.20	-0.41	4.47	3	Horizontal	19	2.55	-



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)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.1118G	42.40	54.00	-11.60	4.04	3	Vertical	16	2.46	-
5260MHz	Pass	AV	5.2552G	93.36	Inf	-Inf	4.21	3	Vertical	16	2.46	-
5260MHz	Pass	AV	5.368G	42.53	54.00	-11.47	4.34	3	Vertical	16	2.46	-
5260MHz	Pass	PK	5.1424G	54.68	74.00	-19.32	4.09	3	Vertical	16	2.46	-
5260MHz	Pass	PK	5.2552G	102.79	Inf	-Inf	4.21	3	Vertical	16	2.46	-
5260MHz	Pass	PK	5.3794G	54.51	74.00	-19.49	4.36	3	Vertical	16	2.46	-
5260MHz	Pass	AV	5.1244G	42.50	54.00	-11.50	4.05	3	Horizontal	171	2.02	-
5260MHz	Pass	AV	5.254G	96.42	Inf	-Inf	4.21	3	Horizontal	171	2.02	-
5260MHz	Pass	AV	5.3668G	42.51	54.00	-11.49	4.34	3	Horizontal	171	2.02	-
5260MHz	Pass	PK	5.146G	55.04	74.00	-18.96	4.09	3	Horizontal	171	2.02	-
5260MHz	Pass	PK	5.2546G	104.98	Inf	-Inf	4.21	3	Horizontal	171	2.02	-
5260MHz	Pass	PK	5.3752G	54.96	74.00	-19.04	4.36	3	Horizontal	171	2.02	-
5260MHz	Pass	PK	10.5161G	56.70	68.20	-11.50	14.73	3	Vertical	184	2.48	-
5260MHz	Pass	PK	10.50656G	55.99	68.20	-12.21	14.70	3	Horizontal	93	1.81	-
5300MHz	Pass	AV	5.2948G	92.77	Inf	-Inf	4.26	3	Vertical	19	2.30	-
5300MHz	Pass	AV	5.3656G	42.30	54.00	-11.70	4.34	3	Vertical	19	2.30	-
5300MHz	Pass	PK	5.2948G	101.82	Inf	-Inf	4.26	3	Vertical	19	2.30	-
5300MHz	Pass	PK	5.3592G	54.63	74.00	-19.37	4.34	3	Vertical	19	2.30	-
5300MHz	Pass	AV	5.294G	95.87	Inf	-Inf	4.26	3	Horizontal	172	2.07	-
5300MHz	Pass	AV	5.3524G	42.90	54.00	-11.10	4.32	3	Horizontal	172	2.07	-
5300MHz	Pass	PK	5.3044G	104.68	Inf	-Inf	4.27	3	Horizontal	172	2.07	-
5300MHz	Pass	PK	5.3592G	55.16	74.00	-18.84	4.34	3	Horizontal	172	2.07	-
5300MHz	Pass	AV	10.603G	43.41	54.00	-10.59	14.96	3	Vertical	277	1.81	-
5300MHz	Pass	PK	10.58554G	56.03	68.20	-12.17	14.91	3	Vertical	277	1.81	-
5300MHz	Pass	AV	10.60066G	43.82	54.00	-10.18	14.94	3	Horizontal	64	1.89	-
5300MHz	Pass	PK	10.6003G	56.76	74.00	-17.24	14.94	3	Horizontal	64	1.89	-
5320MHz	Pass	AV	5.3262G	93.63	Inf	-Inf	4.30	3	Vertical	2	2.16	-
5320MHz	Pass	AV	5.3504G	44.63	54.00	-9.37	4.32	3	Vertical	2	2.16	-
5320MHz	Pass	PK	5.3262G	102.27	Inf	-Inf	4.30	3	Vertical	2	2.16	-
5320MHz	Pass	PK	5.3522G	56.69	74.00	-17.31	4.32	3	Vertical	2	2.16	-
5320MHz	Pass	AV	5.3138G	95.65	Inf	-Inf	4.28	3	Horizontal	162	2.39	-
5320MHz	Pass	AV	5.3504G	45.51	54.00	-8.49	4.32	3	Horizontal	162	2.39	-
5320MHz	Pass	PK	5.3242G	104.48	Inf	-Inf	4.29	3	Horizontal	162	2.39	-
5320MHz	Pass	PK	5.35G	57.16	74.00	-16.84	4.32	3	Horizontal	162	2.39	-
5320MHz	Pass	AV	10.63546G	43.16	54.00	-10.84	15.04	3	Vertical	188	1.56	-
5320MHz	Pass	PK	10.63872G	53.37	74.00	-20.63	15.04	3	Vertical	188	1.56	-
5320MHz	Pass	AV	10.63563G	43.00	54.00	-11.00	15.04	3	Horizontal	302	1.50	-
5320MHz	Pass	PK	10.63662G	53.60	74.00	-20.40	15.04	3	Horizontal	302	1.50	-
5500MHz	Pass	AV	5.459G	46.02	54.00	-7.98	4.46	3	Vertical	25	2.39	-
5500MHz	Pass	AV	5.495G	94.64	Inf	-Inf	4.50	3	Vertical	25	2.39	-
5500MHz	Pass	PK	5.4698G	62.69	68.20	-5.51	4.47	3	Vertical	25	2.39	-
5500MHz	Pass	PK	5.495G	103.86	Inf	-Inf	4.50	3	Vertical	25	2.39	-
5500MHz	Pass	AV	5.4588G	46.23	54.00	-7.77	4.46	3	Horizontal	165	1.42	-
5500MHz	Pass	AV	5.4938G	96.45	Inf	-Inf	4.50	3	Horizontal	165	1.42	-
5500MHz	Pass	PK	5.4696G	63.73	68.20	-4.47	4.47	3	Horizontal	165	1.42	-
5500MHz	Pass	PK	5.504G	105.82	Inf	-Inf	4.51	3	Horizontal	165	1.42	-
5500MHz	Pass	AV	10.9956G	43.33	54.00	-10.67	15.97	3	Vertical	92	1.50	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5500MHz	Pass	PK	11.00124G	54.34	74.00	-19.66	15.98	3	Vertical	92	1.50	-
5500MHz	Pass	AV	11.00058G	43.64	54.00	-10.36	15.98	3	Horizontal	272	1.84	-
5500MHz	Pass	PK	11.00124G	55.52	74.00	-18.48	15.98	3	Horizontal	272	1.84	-
5580MHz	Pass	AV	5.4558G	42.56	54.00	-11.44	4.45	3	Vertical	346	2.38	-
5580MHz	Pass	AV	5.5776G	95.10	Inf	-Inf	4.66	3	Vertical	346	2.38	-
5580MHz	Pass	PK	5.4654G	54.43	68.20	-13.77	4.46	3	Vertical	346	2.38	-
5580MHz	Pass	PK	5.583G	104.10	Inf	-Inf	4.67	3	Vertical	346	2.38	-
5580MHz	Pass	PK	5.7282G	54.47	68.20	-13.73	4.96	3	Vertical	346	2.38	-
5580MHz	Pass	AV	5.4558G	42.78	54.00	-11.22	4.45	3	Horizontal	169	1.10	-
5580MHz	Pass	AV	5.574G	96.53	Inf	-Inf	4.65	3	Horizontal	169	1.10	-
5580MHz	Pass	PK	5.4606G	54.91	68.20	-13.29	4.46	3	Horizontal	169	1.10	-
5580MHz	Pass	PK	5.574G	105.28	Inf	-Inf	4.65	3	Horizontal	169	1.10	-
5580MHz	Pass	PK	5.7258G	55.39	68.20	-12.81	4.96	3	Horizontal	169	1.10	-
5580MHz	Pass	AV	11.15922G	43.68	54.00	-10.32	15.85	3	Vertical	226	1.52	-
5580MHz	Pass	PK	11.15844G	54.64	74.00	-19.36	15.85	3	Vertical	226	1.52	-
5580MHz	Pass	AV	11.1632G	43.58	54.00	-10.42	15.84	3	Horizontal	195	1.46	-
5580MHz	Pass	PK	11.15668G	54.59	74.00	-19.41	15.85	3	Horizontal	195	1.46	-
5700MHz	Pass	AV	5.6932G	94.60	Inf	-Inf	4.90	3	Vertical	331	2.42	-
5700MHz	Pass	PK	5.6932G	103.01	Inf	-Inf	4.90	3	Vertical	331	2.42	-
5700MHz	Pass	PK	5.7268G	60.62	68.20	-7.58	4.96	3	Vertical	331	2.42	-
5700MHz	Pass	AV	5.6928G	95.79	Inf	-Inf	4.90	3	Horizontal	31	2.33	-
5700MHz	Pass	PK	5.7076G	104.76	Inf	-Inf	4.93	3	Horizontal	31	2.33	-
5700MHz	Pass	PK	5.7252G	62.10	68.20	-6.10	4.96	3	Horizontal	31	2.33	-
5700MHz	Pass	AV	11.40272G	43.73	54.00	-10.27	15.64	3	Vertical	125	1.62	-
5700MHz	Pass	PK	11.39712G	55.75	74.00	-18.25	15.63	3	Vertical	125	1.62	-
5700MHz	Pass	AV	11.40259G	43.76	54.00	-10.24	15.64	3	Horizontal	136	1.50	-
5700MHz	Pass	PK	11.39648G	55.75	74.00	-18.25	15.63	3	Horizontal	136	1.50	-
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.128G	42.43	54.00	-11.57	4.06	3	Vertical	9	2.22	-
5260MHz	Pass	AV	5.2534G	94.02	Inf	-Inf	4.21	3	Vertical	9	2.22	-
5260MHz	Pass	AV	5.4094G	42.52	54.00	-11.48	4.40	3	Vertical	9	2.22	-
5260MHz	Pass	PK	5.1436G	54.86	74.00	-19.14	4.09	3	Vertical	9	2.22	-
5260MHz	Pass	PK	5.2528G	102.84	Inf	-Inf	4.21	3	Vertical	9	2.22	-
5260MHz	Pass	PK	5.41G	54.96	74.00	-19.04	4.40	3	Vertical	9	2.22	-
5260MHz	Pass	AV	5.1148G	42.71	54.00	-11.29	4.04	3	Horizontal	167	2.05	-
5260MHz	Pass	AV	5.2546G	96.19	Inf	-Inf	4.21	3	Horizontal	167	2.05	-
5260MHz	Pass	AV	5.3734G	42.69	54.00	-11.31	4.35	3	Horizontal	167	2.05	-
5260MHz	Pass	PK	5.1256G	54.67	74.00	-19.33	4.06	3	Horizontal	167	2.05	-
5260MHz	Pass	PK	5.2546G	105.01	Inf	-Inf	4.21	3	Horizontal	167	2.05	-
5260MHz	Pass	PK	5.383G	54.58	74.00	-19.42	4.36	3	Horizontal	167	2.05	-
5260MHz	Pass	PK	10.5189G	56.96	68.20	-11.24	14.74	3	Vertical	30	1.59	-
5260MHz	Pass	PK	10.51594G	55.66	68.20	-12.54	14.73	3	Horizontal	235	1.55	-
5300MHz	Pass	AV	5.2932G	93.25	Inf	-Inf	4.26	3	Vertical	4	2.73	-
5300MHz	Pass	AV	5.362G	42.63	54.00	-11.37	4.34	3	Vertical	4	2.73	-
5300MHz	Pass	PK	5.2932G	102.48	Inf	-Inf	4.26	3	Vertical	4	2.73	-
5300MHz	Pass	PK	5.3912G	54.94	74.00	-19.06	4.37	3	Vertical	4	2.73	-
5300MHz	Pass	AV	5.2924G	95.15	Inf	-Inf	4.26	3	Horizontal	166	1.49	-
5300MHz	Pass	AV	5.3524G	43.12	54.00	-10.88	4.32	3	Horizontal	166	1.49	-
5300MHz	Pass	PK	5.2944G	104.34	Inf	-Inf	4.26	3	Horizontal	166	1.49	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5300MHz	Pass	PK	5.3604G	55.42	74.00	-18.58	4.34	3	Horizontal	166	1.49	-
5300MHz	Pass	PK	10.60618G	62.18	74.00	-11.82	14.97	3	Vertical	298	2.40	-
5300MHz	Pass	PK	10.61242G	61.99	74.00	-12.01	14.98	3	Horizontal	201	1.03	-
5320MHz	Pass	AV	5.3256G	92.57	Inf	-Inf	4.30	3	Vertical	10	2.28	-
5320MHz	Pass	AV	5.3504G	44.64	54.00	-9.36	4.32	3	Vertical	10	2.28	-
5320MHz	Pass	PK	5.3256G	102.54	Inf	-Inf	4.30	3	Vertical	10	2.28	-
5320MHz	Pass	PK	5.3508G	56.10	74.00	-17.90	4.32	3	Vertical	10	2.28	-
5320MHz	Pass	AV	5.3122G	94.79	Inf	-Inf	4.28	3	Horizontal	166	2.04	-
5320MHz	Pass	AV	5.35G	46.56	54.00	-7.44	4.32	3	Horizontal	166	2.04	-
5320MHz	Pass	PK	5.3222G	103.90	Inf	-Inf	4.29	3	Horizontal	166	2.04	-
5320MHz	Pass	PK	5.35G	58.47	74.00	-15.53	4.32	3	Horizontal	166	2.04	-
5320MHz	Pass	AV	10.62956G	43.17	54.00	-10.83	15.02	3	Vertical	58	1.71	-
5320MHz	Pass	PK	10.63754G	55.64	74.00	-18.36	15.04	3	Vertical	58	1.71	-
5320MHz	Pass	AV	10.63736G	43.03	54.00	-10.97	15.04	3	Horizontal	121	1.55	-
5320MHz	Pass	PK	10.63472G	55.43	74.00	-18.57	15.04	3	Horizontal	121	1.55	-
5500MHz	Pass	AV	5.4582G	40.47	54.00	-13.53	4.45	3	Vertical	34	2.21	-
5500MHz	Pass	AV	5.493G	89.54	Inf	-Inf	4.49	3	Vertical	34	2.21	-
5500MHz	Pass	PK	5.4682G	63.01	68.20	-5.19	4.47	3	Vertical	34	2.21	-
5500MHz	Pass	PK	5.4956G	100.20	Inf	-Inf	4.50	3	Vertical	34	2.21	-
5500MHz	Pass	AV	5.4598G	45.51	54.00	-8.49	4.46	3	Horizontal	19	2.55	-
5500MHz	Pass	AV	5.4922G	95.16	Inf	-Inf	4.49	3	Horizontal	19	2.55	-
5500MHz	Pass	PK	5.4682G	67.79	68.20	-0.41	4.47	3	Horizontal	19	2.55	-
5500MHz	Pass	PK	5.4924G	105.15	Inf	-Inf	4.49	3	Horizontal	19	2.55	-
5500MHz	Pass	AV	11.00132G	41.94	54.00	-12.06	15.98	3	Vertical	109	2.97	-
5500MHz	Pass	PK	10.99992G	54.95	74.00	-19.05	15.98	3	Vertical	109	2.97	-
5500MHz	Pass	AV	11.00155G	43.24	54.00	-10.76	15.98	3	Horizontal	200	1.66	-
5500MHz	Pass	PK	11.00092G	56.57	74.00	-17.43	15.98	3	Horizontal	200	1.66	-
5580MHz	Pass	AV	5.4522G	42.62	54.00	-11.38	4.44	3	Vertical	20	2.25	-
5580MHz	Pass	AV	5.583G	94.08	Inf	-Inf	4.67	3	Vertical	20	2.25	-
5580MHz	Pass	PK	5.4606G	54.06	68.20	-14.14	4.46	3	Vertical	20	2.25	-
5580MHz	Pass	PK	5.5728G	103.55	Inf	-Inf	4.65	3	Vertical	20	2.25	-
5580MHz	Pass	PK	5.73G	54.21	68.20	-13.99	4.96	3	Vertical	20	2.25	-
5580MHz	Pass	AV	5.454G	42.66	54.00	-11.34	4.45	3	Horizontal	187	2.05	-
5580MHz	Pass	AV	5.5854G	95.48	Inf	-Inf	4.67	3	Horizontal	187	2.05	-
5580MHz	Pass	PK	5.466G	54.31	68.20	-13.89	4.46	3	Horizontal	187	2.05	-
5580MHz	Pass	PK	5.5752G	104.83	Inf	-Inf	4.66	3	Horizontal	187	2.05	-
5580MHz	Pass	PK	5.7258G	54.84	68.20	-13.36	4.96	3	Horizontal	187	2.05	-
5580MHz	Pass	AV	11.15262G	43.86	54.00	-10.14	15.86	3	Vertical	128	1.03	-
5580MHz	Pass	PK	11.1459G	55.67	74.00	-18.33	15.86	3	Vertical	128	1.03	-
5580MHz	Pass	AV	11.1606G	43.20	54.00	-10.80	15.85	3	Horizontal	77	1.93	-
5580MHz	Pass	PK	11.14788G	55.23	74.00	-18.77	15.85	3	Horizontal	77	1.93	-
5700MHz	Pass	AV	5.6972G	93.16	Inf	-Inf	4.91	3	Vertical	324	2.20	-
5700MHz	Pass	PK	5.6932G	102.46	Inf	-Inf	4.90	3	Vertical	324	2.20	-
5700MHz	Pass	PK	5.7252G	67.55	68.20	-0.65	4.96	3	Vertical	324	2.20	-
5700MHz	Pass	AV	5.696G	94.83	Inf	-Inf	4.90	3	Horizontal	331	2.12	-
5700MHz	Pass	PK	5.696G	104.03	Inf	-Inf	4.90	3	Horizontal	331	2.12	-
5700MHz	Pass	PK	5.7256G	66.47	68.20	-1.73	4.96	3	Horizontal	331	2.12	-
5700MHz	Pass	AV	11.40096G	43.75	54.00	-10.25	15.64	3	Vertical	241	2.33	-
5700MHz	Pass	PK	11.41218G	54.97	74.00	-19.03	15.62	3	Vertical	241	2.33	-

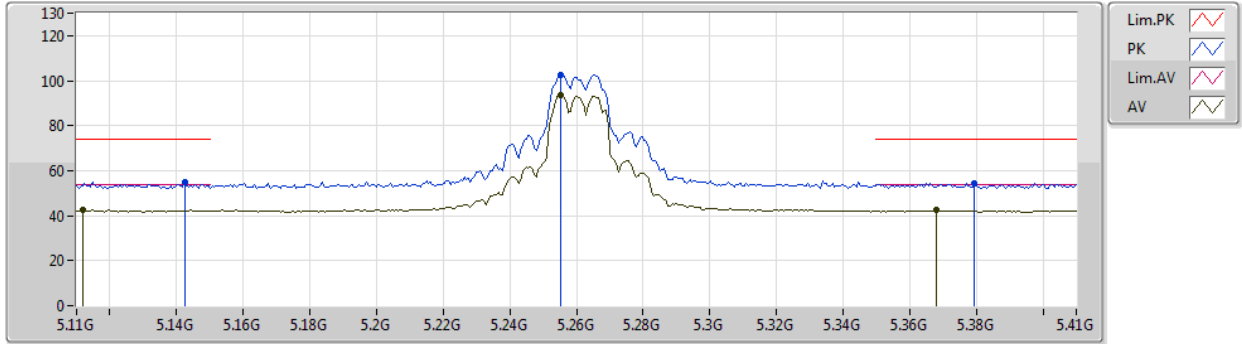


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5700MHz	Pass	PK	11.40378G	56.23	74.00	-17.77	15.63	3	Horizontal	95	1.22	-
5700MHz	Pass	AV	11.40828G	43.50	54.00	-10.50	15.63	3	Horizontal	95	1.22	-

802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5260MHz_TX

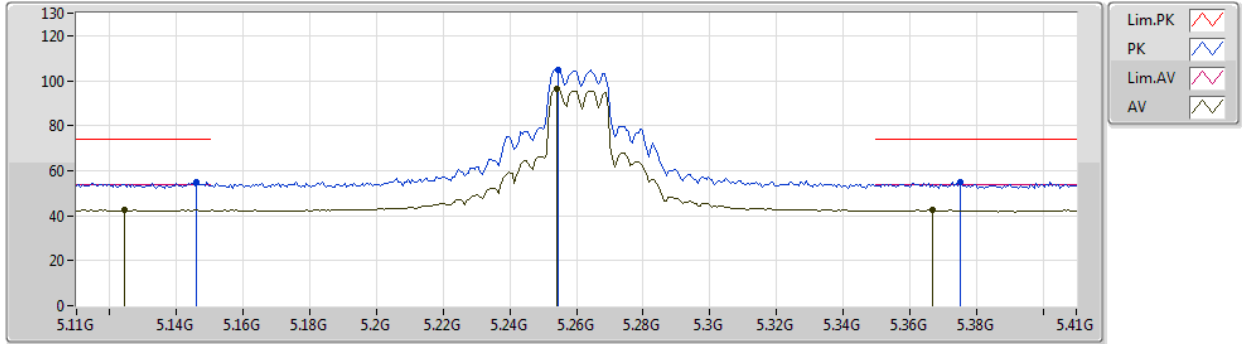


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.1118G	42.40	54.00	-11.60	4.04	3	Vertical	16	2.46	-
AV	5.2552G	93.36	Inf	-Inf	4.21	3	Vertical	16	2.46	-
AV	5.368G	42.53	54.00	-11.47	4.34	3	Vertical	16	2.46	-
PK	5.1424G	54.68	74.00	-19.32	4.09	3	Vertical	16	2.46	-
PK	5.2552G	102.79	Inf	-Inf	4.21	3	Vertical	16	2.46	-
PK	5.3794G	54.51	74.00	-19.49	4.36	3	Vertical	16	2.46	-

802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5260MHz_TX



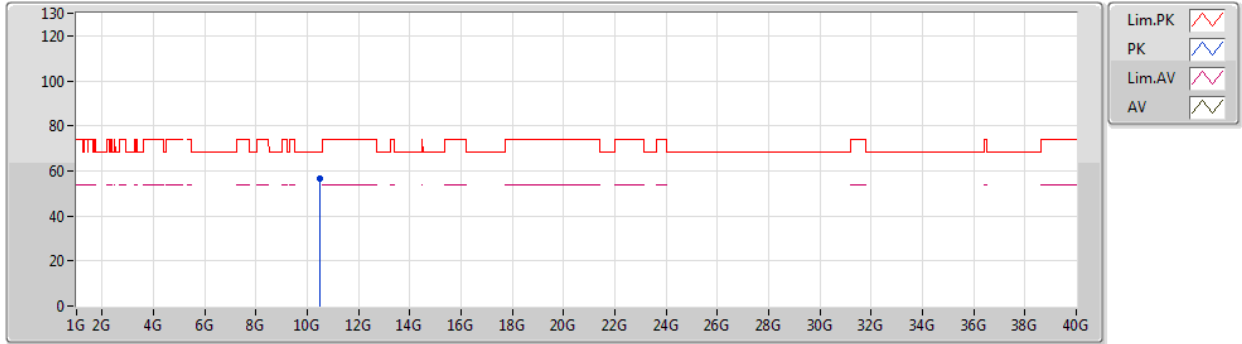
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.1244G	42.50	54.00	-11.50	4.05	3	Horizontal	171	2.02	-
AV	5.254G	96.42	Inf	-Inf	4.21	3	Horizontal	171	2.02	-
AV	5.3668G	42.51	54.00	-11.49	4.34	3	Horizontal	171	2.02	-
PK	5.146G	55.04	74.00	-18.96	4.09	3	Horizontal	171	2.02	-
PK	5.2546G	104.98	Inf	-Inf	4.21	3	Horizontal	171	2.02	-
PK	5.3752G	54.96	74.00	-19.04	4.36	3	Horizontal	171	2.02	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5260MHz_TX



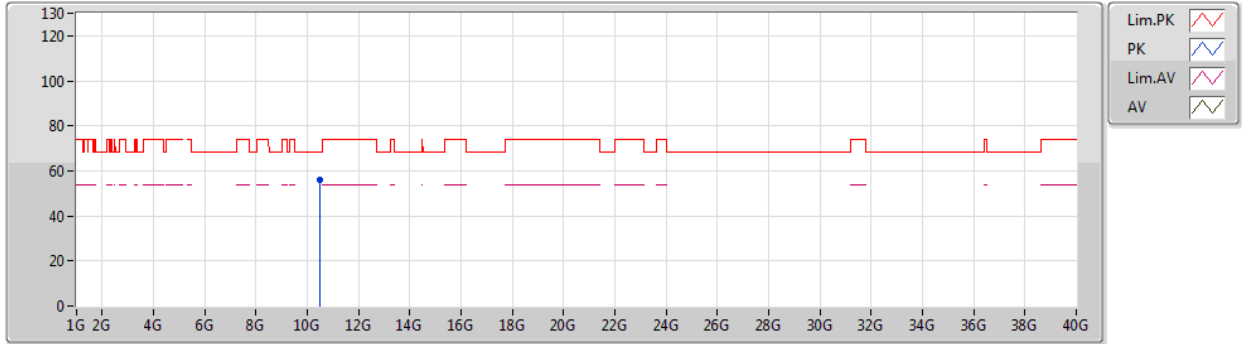
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	10.5161G	56.70	68.20	-11.50	14.73	3	Vertical	184	2.48	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5260MHz_TX



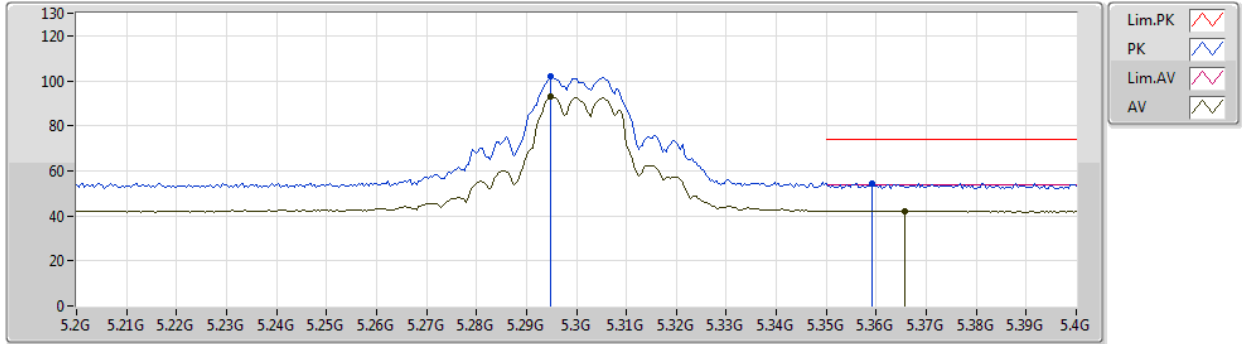
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	10.50656G	55.99	68.20	-12.21	14.70	3	Horizontal	93	1.81	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5300MHz_TX



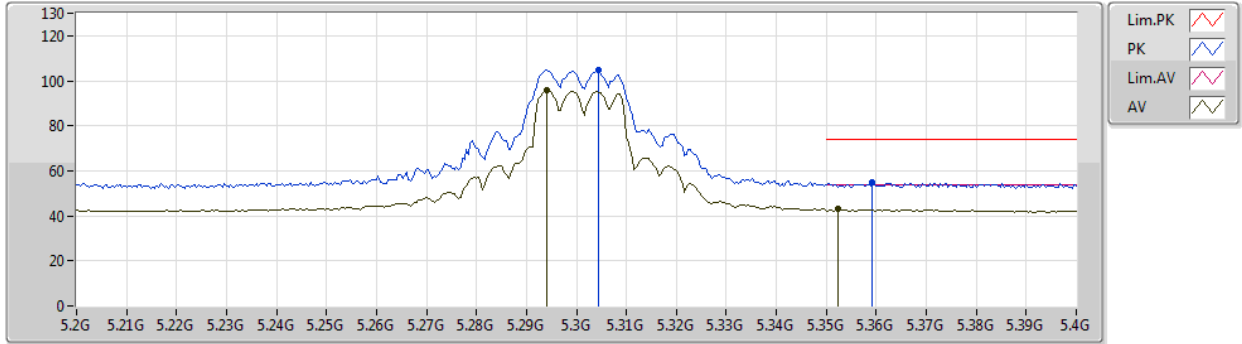
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.2948G	92.77	Inf	-Inf	4.26	3	Vertical	19	2.30	-
AV	5.3656G	42.30	54.00	-11.70	4.34	3	Vertical	19	2.30	-
PK	5.2948G	101.82	Inf	-Inf	4.26	3	Vertical	19	2.30	-
PK	5.3592G	54.63	74.00	-19.37	4.34	3	Vertical	19	2.30	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5300MHz_TX



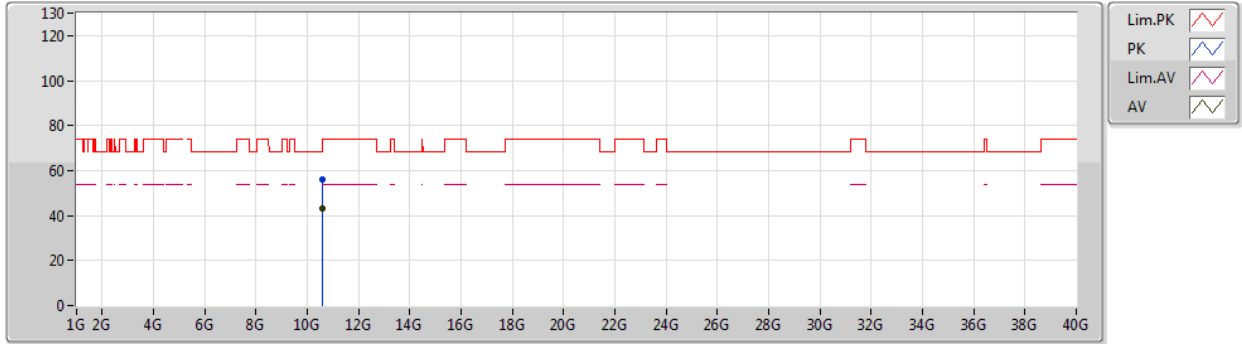
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.294G	95.87	Inf	-Inf	4.26	3	Horizontal	172	2.07	-
AV	5.3524G	42.90	54.00	-11.10	4.32	3	Horizontal	172	2.07	-
PK	5.3044G	104.68	Inf	-Inf	4.27	3	Horizontal	172	2.07	-
PK	5.3592G	55.16	74.00	-18.84	4.34	3	Horizontal	172	2.07	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5300MHz_TX



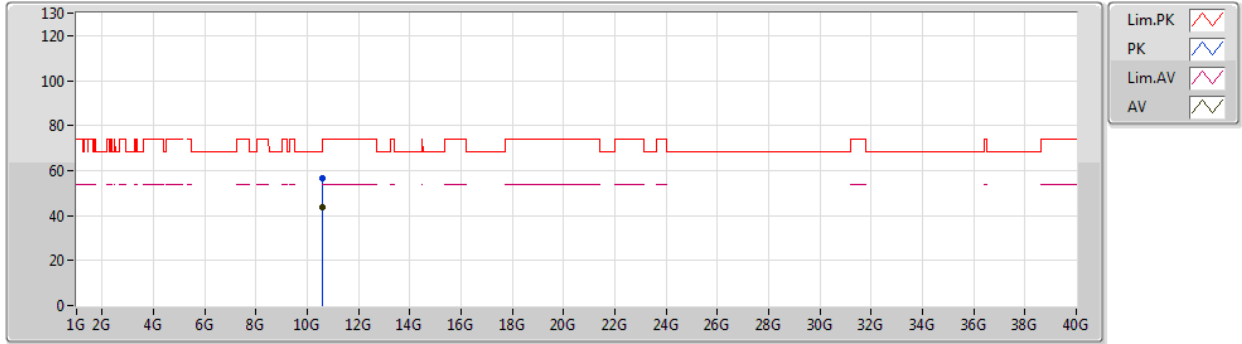
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	10.603G	43.41	54.00	-10.59	14.96	3	Vertical	277	1.81	-
PK	10.58554G	56.03	68.20	-12.17	14.91	3	Vertical	277	1.81	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5300MHz_TX



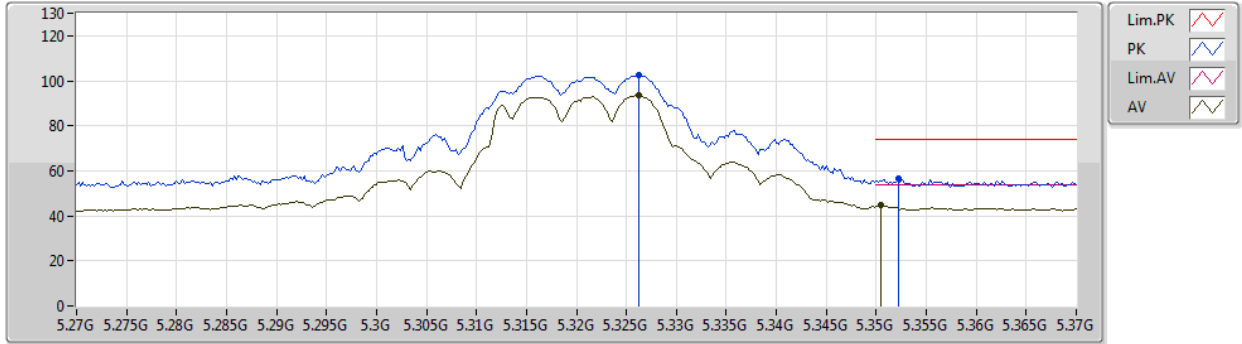
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	10.60066G	43.82	54.00	-10.18	14.94	3	Horizontal	64	1.89	-
PK	10.6003G	56.76	74.00	-17.24	14.94	3	Horizontal	64	1.89	-



802.11a_Nss1,(6Mbps)_2TX

04/04/2019

5320MHz_TX



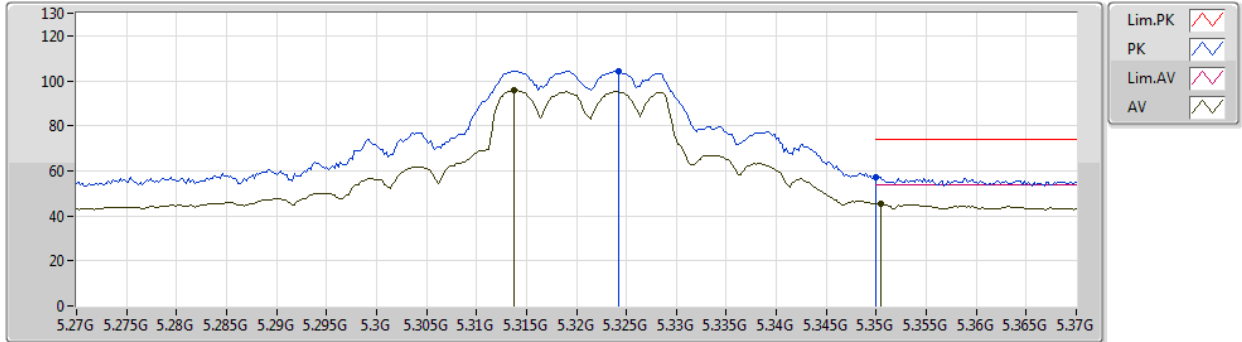
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.3262G	93.63	Inf	-Inf	4.30	3	Vertical	2	2.16	-
AV	5.3504G	44.63	54.00	-9.37	4.32	3	Vertical	2	2.16	-
PK	5.3262G	102.27	Inf	-Inf	4.30	3	Vertical	2	2.16	-
PK	5.3522G	56.69	74.00	-17.31	4.32	3	Vertical	2	2.16	-



802.11a_Nss1,(6Mbps)_2TX

04/04/2019

5320MHz_TX



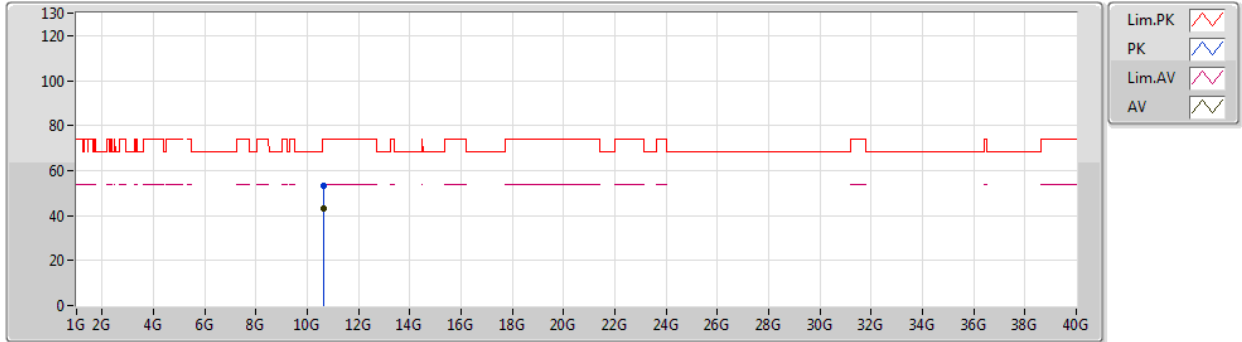
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.3138G	95.65	Inf	-Inf	4.28	3	Horizontal	162	2.39	-
AV	5.3504G	45.51	54.00	-8.49	4.32	3	Horizontal	162	2.39	-
PK	5.3242G	104.48	Inf	-Inf	4.29	3	Horizontal	162	2.39	-
PK	5.35G	57.16	74.00	-16.84	4.32	3	Horizontal	162	2.39	-



802.11a_Nss1,(6Mbps)_2TX

04/04/2019

5320MHz_TX



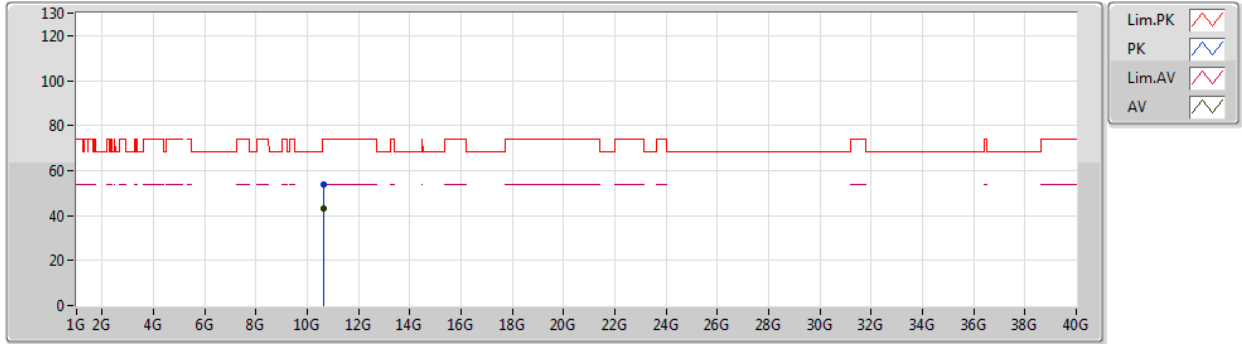
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	10.63546G	43.16	54.00	-10.84	15.04	3	Vertical	188	1.56	-
PK	10.63872G	53.37	74.00	-20.63	15.04	3	Vertical	188	1.56	-



802.11a_Nss1,(6Mbps)_2TX

04/04/2019

5320MHz_TX



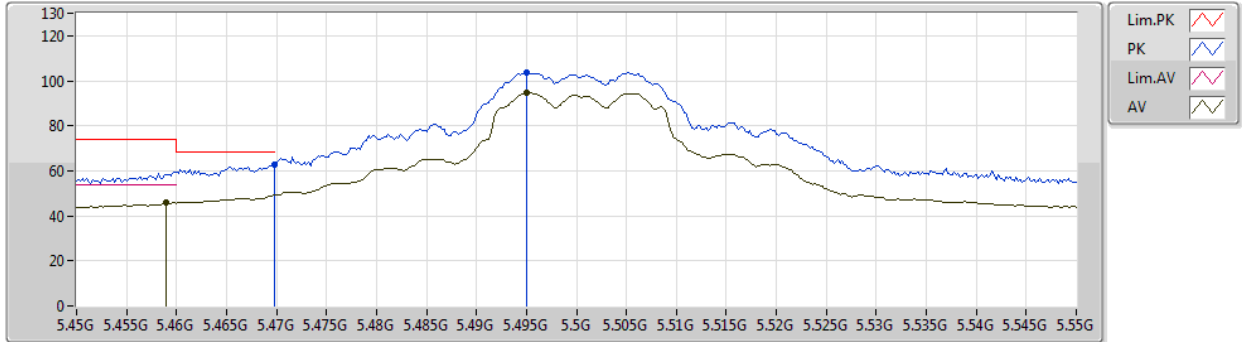
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	10.63563G	43.00	54.00	-11.00	15.04	3	Horizontal	302	1.50	-
PK	10.63662G	53.60	74.00	-20.40	15.04	3	Horizontal	302	1.50	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5500MHz_TX



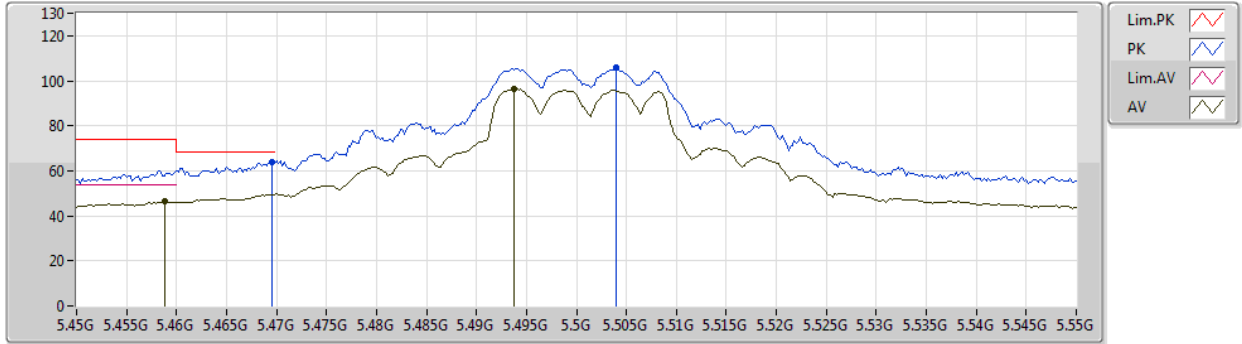
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.459G	46.02	54.00	-7.98	4.46	3	Vertical	25	2.39	-
AV	5.495G	94.64	Inf	-Inf	4.50	3	Vertical	25	2.39	-
PK	5.4698G	62.69	68.20	-5.51	4.47	3	Vertical	25	2.39	-
PK	5.495G	103.86	Inf	-Inf	4.50	3	Vertical	25	2.39	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5500MHz_TX



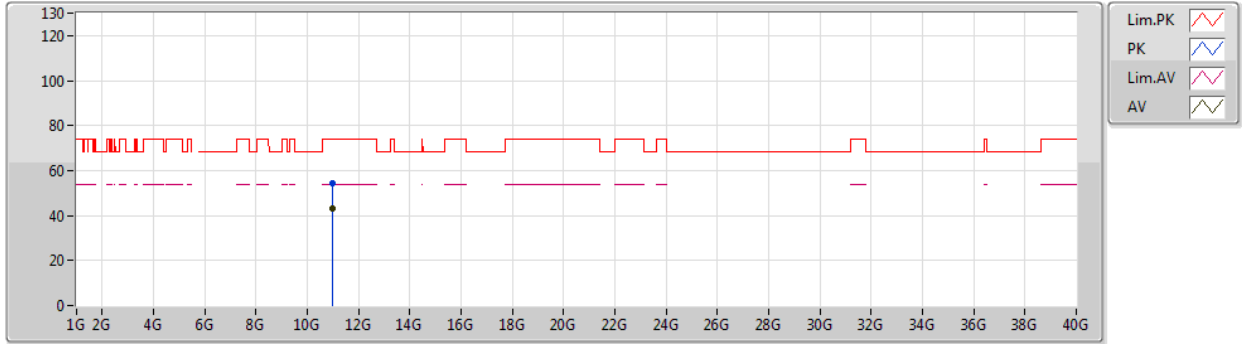
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.4588G	46.23	54.00	-7.77	4.46	3	Horizontal	165	1.42	-
AV	5.4938G	96.45	Inf	-Inf	4.50	3	Horizontal	165	1.42	-
PK	5.4696G	63.73	68.20	-4.47	4.47	3	Horizontal	165	1.42	-
PK	5.504G	105.82	Inf	-Inf	4.51	3	Horizontal	165	1.42	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5500MHz_TX



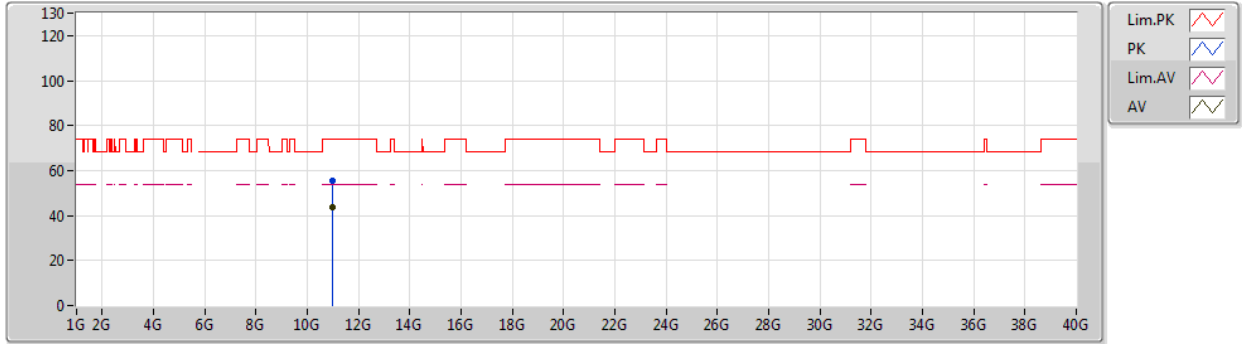
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	10.9956G	43.33	54.00	-10.67	15.97	3	Vertical	92	1.50	-
PK	11.00124G	54.34	74.00	-19.66	15.98	3	Vertical	92	1.50	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5500MHz_TX

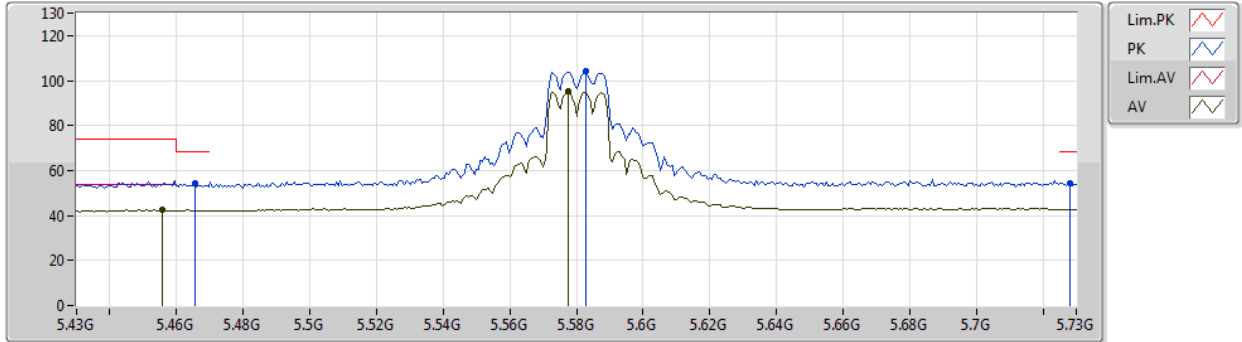


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	11.00058G	43.64	54.00	-10.36	15.98	3	Horizontal	272	1.84	-
PK	11.00124G	55.52	74.00	-18.48	15.98	3	Horizontal	272	1.84	-

802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5580MHz_TX

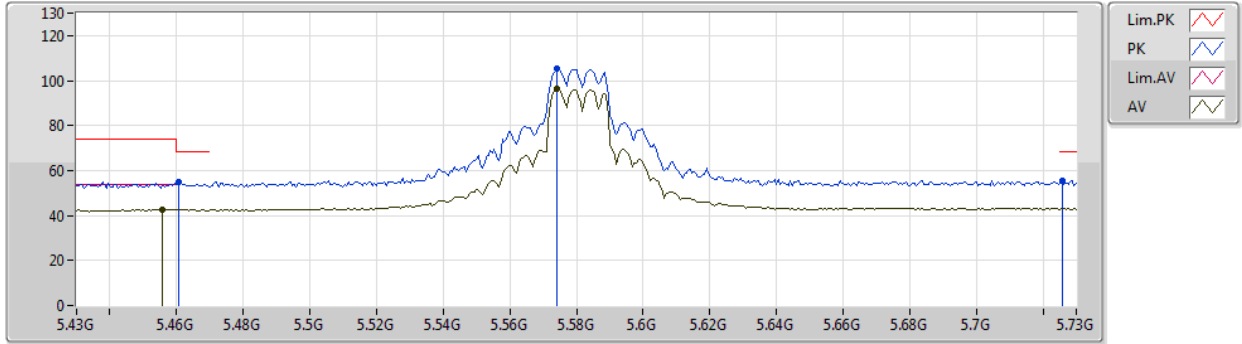


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.4558G	42.56	54.00	-11.44	4.45	3	Vertical	346	2.38	-
AV	5.5776G	95.10	Inf	-Inf	4.66	3	Vertical	346	2.38	-
PK	5.4654G	54.43	68.20	-13.77	4.46	3	Vertical	346	2.38	-
PK	5.583G	104.10	Inf	-Inf	4.67	3	Vertical	346	2.38	-
PK	5.7282G	54.47	68.20	-13.73	4.96	3	Vertical	346	2.38	-

802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5580MHz_TX



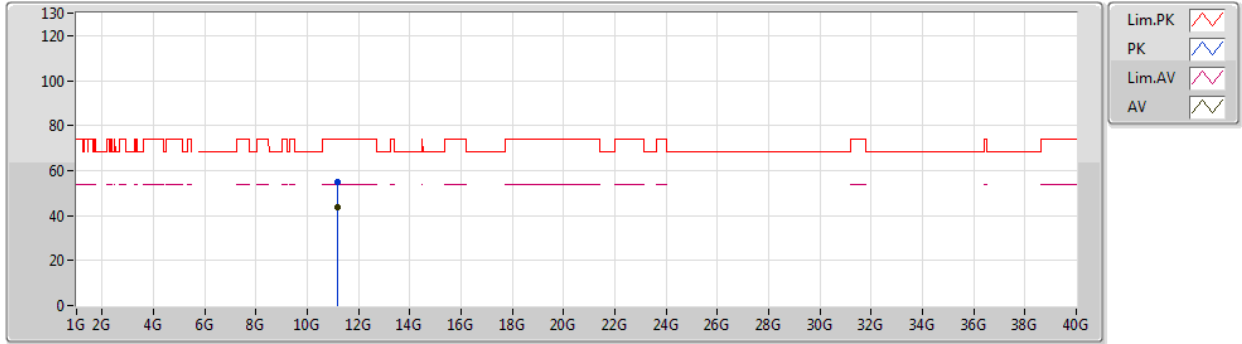
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.4558G	42.78	54.00	-11.22	4.45	3	Horizontal	169	1.10	-
AV	5.574G	96.53	Inf	-Inf	4.65	3	Horizontal	169	1.10	-
PK	5.4606G	54.91	68.20	-13.29	4.46	3	Horizontal	169	1.10	-
PK	5.574G	105.28	Inf	-Inf	4.65	3	Horizontal	169	1.10	-
PK	5.7258G	55.39	68.20	-12.81	4.96	3	Horizontal	169	1.10	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5580MHz_TX



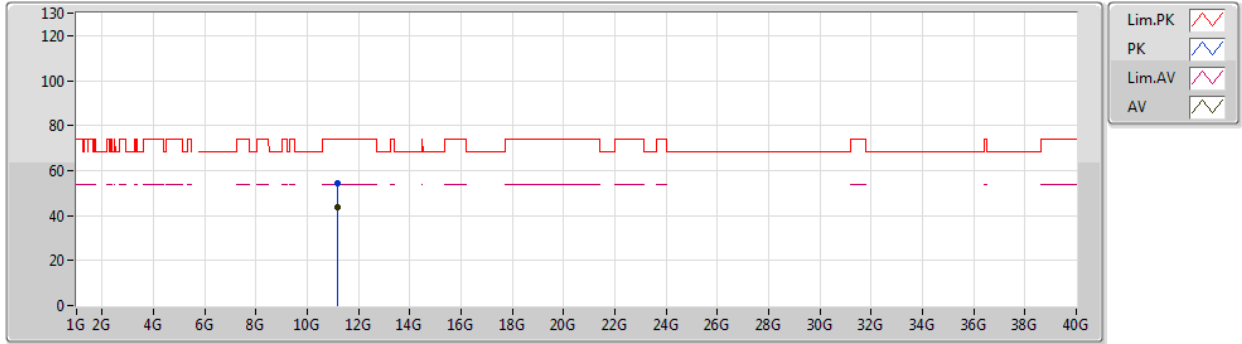
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	11.15922G	43.68	54.00	-10.32	15.85	3	Vertical	226	1.52	-
PK	11.15844G	54.64	74.00	-19.36	15.85	3	Vertical	226	1.52	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5580MHz_TX



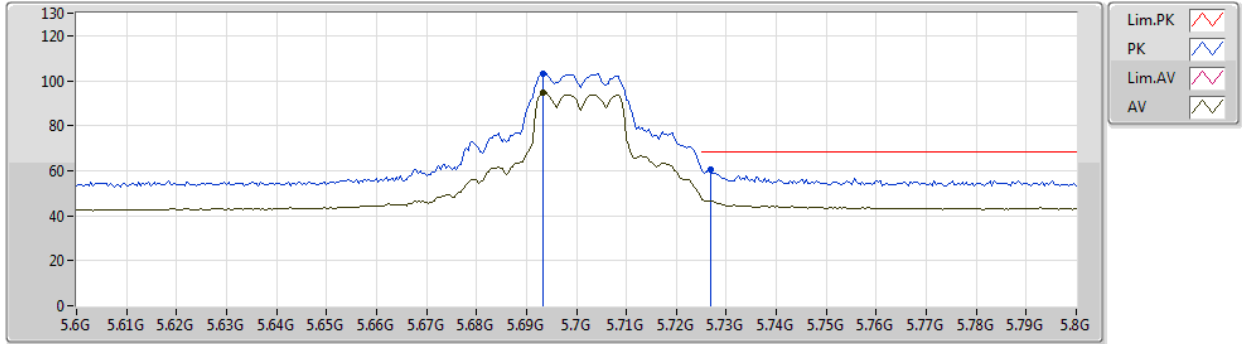
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	11.1632G	43.58	54.00	-10.42	15.84	3	Horizontal	195	1.46	-
PK	11.15668G	54.59	74.00	-19.41	15.85	3	Horizontal	195	1.46	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5700MHz_TX



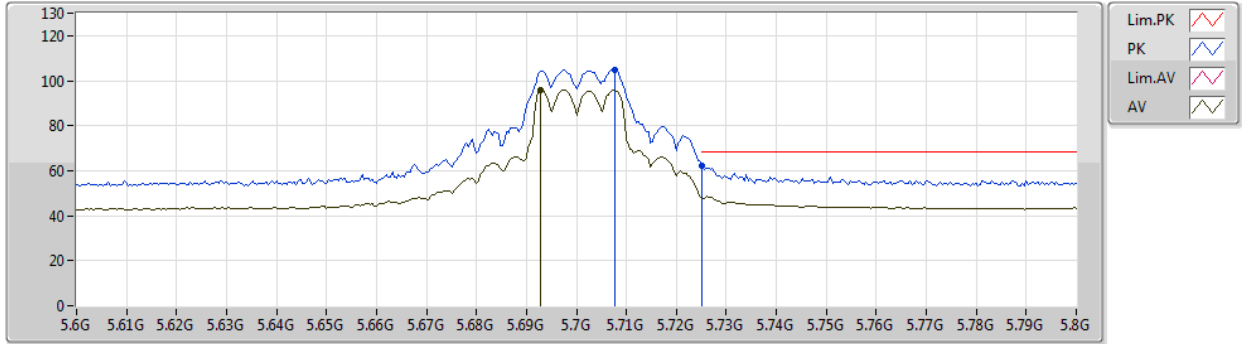
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.6932G	94.60	Inf	-Inf	4.90	3	Vertical	331	2.42	-
PK	5.6932G	103.01	Inf	-Inf	4.90	3	Vertical	331	2.42	-
PK	5.7268G	60.62	68.20	-7.58	4.96	3	Vertical	331	2.42	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5700MHz_TX



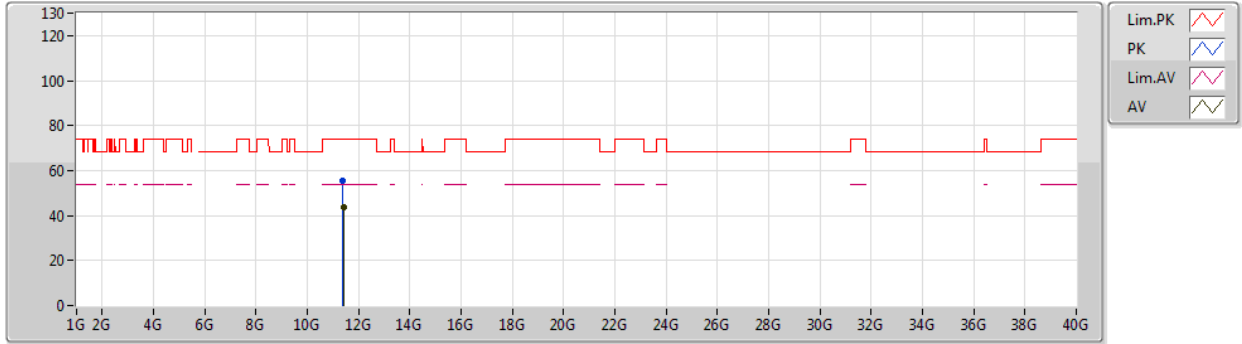
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.6928G	95.79	Inf	-Inf	4.90	3	Horizontal	31	2.33	-
PK	5.7076G	104.76	Inf	-Inf	4.93	3	Horizontal	31	2.33	-
PK	5.7252G	62.10	68.20	-6.10	4.96	3	Horizontal	31	2.33	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5700MHz_TX



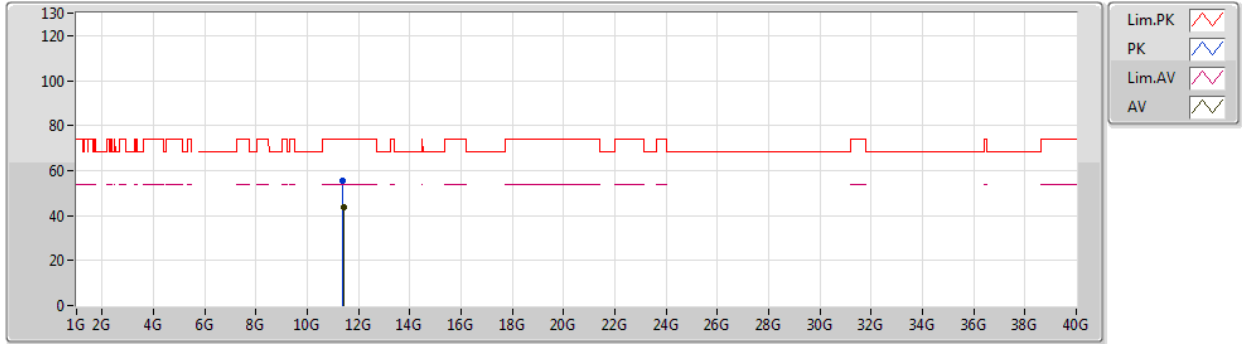
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	11.40272G	43.73	54.00	-10.27	15.64	3	Vertical	125	1.62	-
PK	11.39712G	55.75	74.00	-18.25	15.63	3	Vertical	125	1.62	-



802.11a_Nss1,(6Mbps)_2TX

03/04/2019

5700MHz_TX

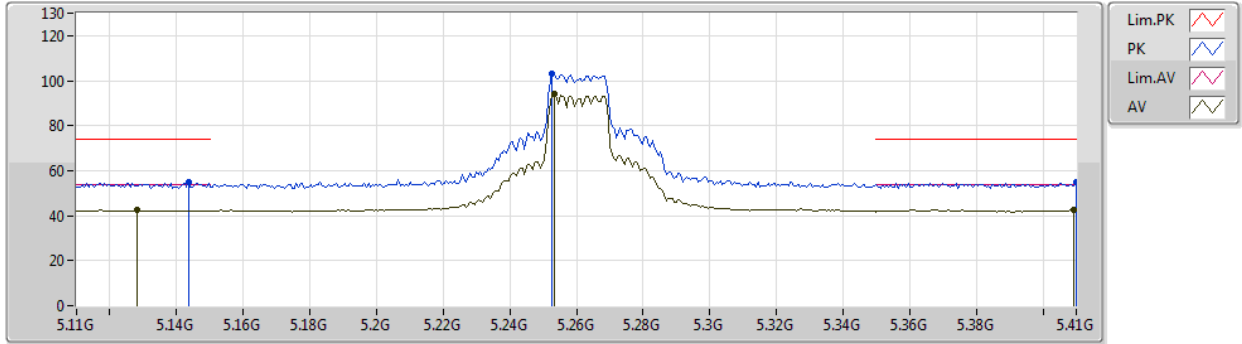


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	11.40259G	43.76	54.00	-10.24	15.64	3	Horizontal	136	1.50	-
PK	11.39648G	55.75	74.00	-18.25	15.63	3	Horizontal	136	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

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5260MHz_TX

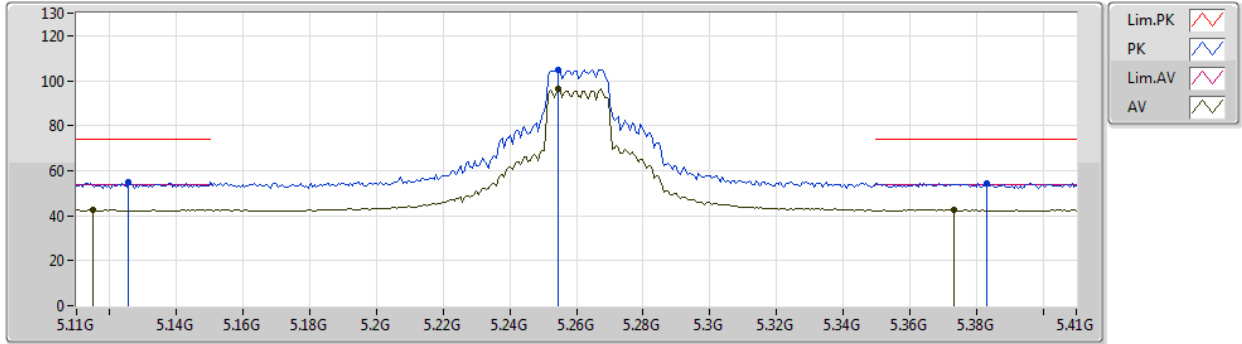


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.128G	42.43	54.00	-11.57	4.06	3	Vertical	9	2.22	-
AV	5.2534G	94.02	Inf	-Inf	4.21	3	Vertical	9	2.22	-
AV	5.4094G	42.52	54.00	-11.48	4.40	3	Vertical	9	2.22	-
PK	5.1436G	54.86	74.00	-19.14	4.09	3	Vertical	9	2.22	-
PK	5.2528G	102.84	Inf	-Inf	4.21	3	Vertical	9	2.22	-
PK	5.41G	54.96	74.00	-19.04	4.40	3	Vertical	9	2.22	-

802.11ac VHT20_Nss1,(MCS0)_2TX

03/04/2019

5260MHz_TX



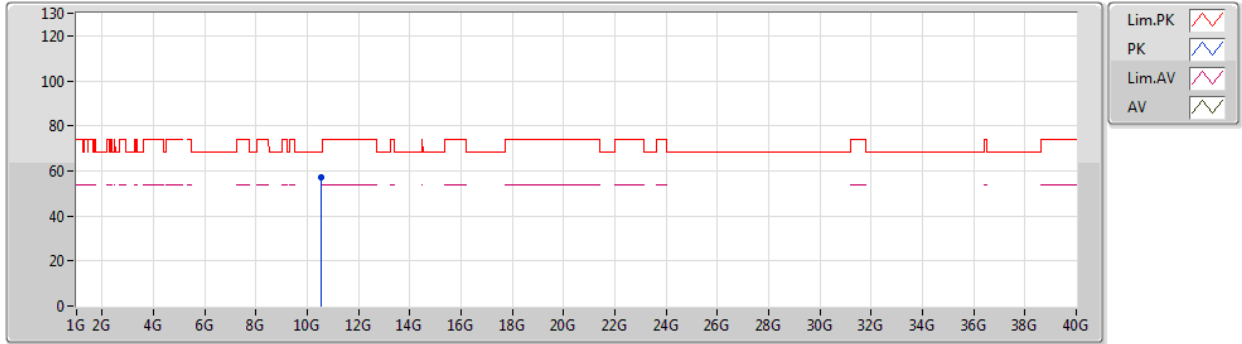
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.1148G	42.71	54.00	-11.29	4.04	3	Horizontal	167	2.05	-
AV	5.2546G	96.19	Inf	-Inf	4.21	3	Horizontal	167	2.05	-
AV	5.3734G	42.69	54.00	-11.31	4.35	3	Horizontal	167	2.05	-
PK	5.1256G	54.67	74.00	-19.33	4.06	3	Horizontal	167	2.05	-
PK	5.2546G	105.01	Inf	-Inf	4.21	3	Horizontal	167	2.05	-
PK	5.383G	54.58	74.00	-19.42	4.36	3	Horizontal	167	2.05	-



802.11ac VHT20_Nss1,(MCS0)_2TX

03/04/2019

5260MHz_TX



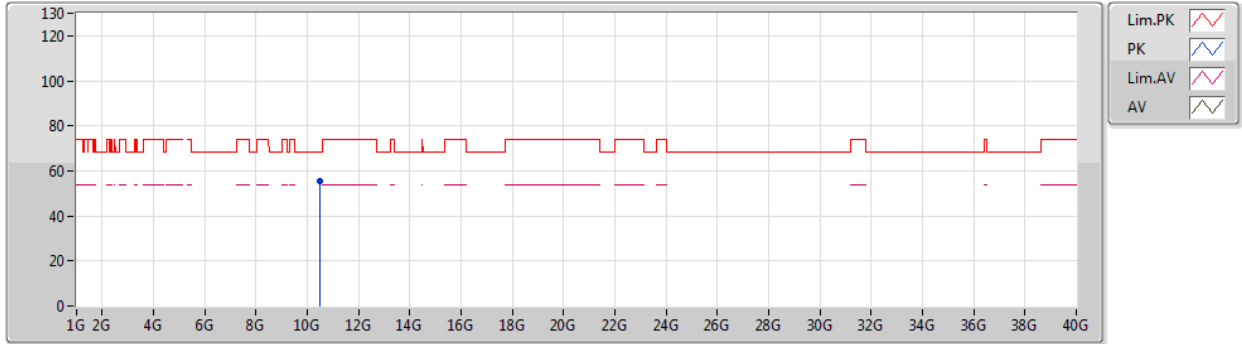
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	10.5189G	56.96	68.20	-11.24	14.74	3	Vertical	30	1.59	-



802.11ac VHT20_Nss1,(MCS0)_2TX

03/04/2019

5260MHz_TX

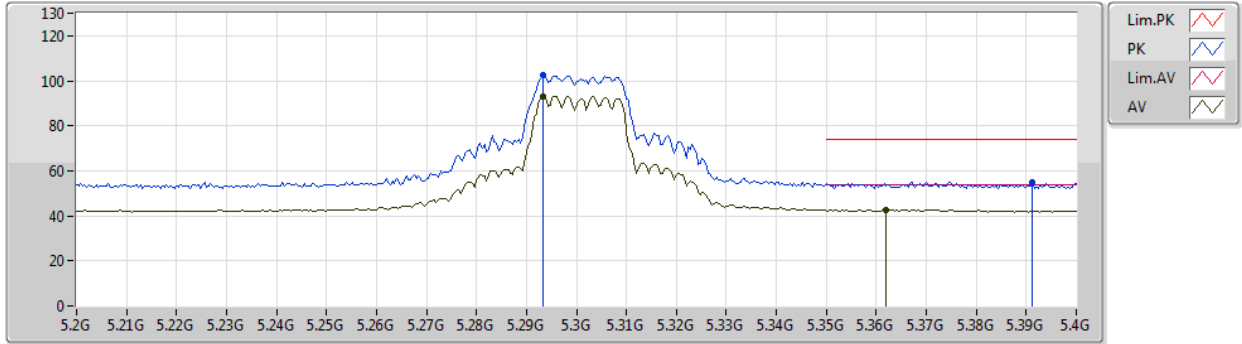


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	10.51594G	55.66	68.20	-12.54	14.73	3	Horizontal	235	1.55	-

802.11ac VHT20_Nss1,(MCS0)_2TX

03/04/2019

5300MHz_TX



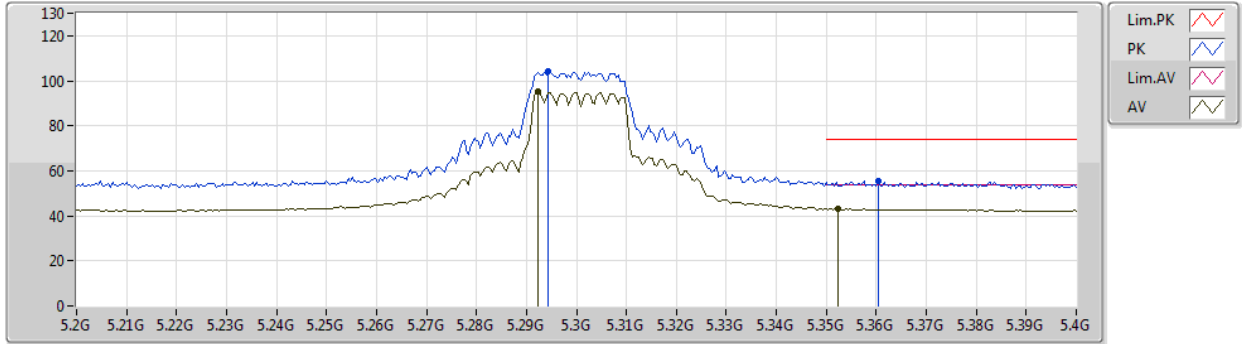
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.2932G	93.25	Inf	-Inf	4.26	3	Vertical	4	2.73	-
AV	5.362G	42.63	54.00	-11.37	4.34	3	Vertical	4	2.73	-
PK	5.2932G	102.48	Inf	-Inf	4.26	3	Vertical	4	2.73	-
PK	5.3912G	54.94	74.00	-19.06	4.37	3	Vertical	4	2.73	-



802.11ac VHT20_Nss1,(MCS0)_2TX

03/04/2019

5300MHz_TX



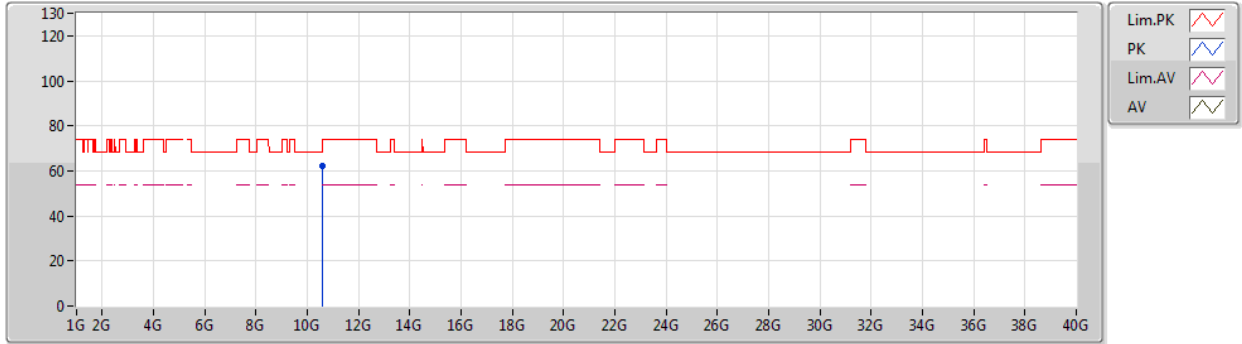
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.2924G	95.15	Inf	-Inf	4.26	3	Horizontal	166	1.49	-
AV	5.3524G	43.12	54.00	-10.88	4.32	3	Horizontal	166	1.49	-
PK	5.2944G	104.34	Inf	-Inf	4.26	3	Horizontal	166	1.49	-
PK	5.3604G	55.42	74.00	-18.58	4.34	3	Horizontal	166	1.49	-



802.11ac VHT20_Nss1,(MCS0)_2TX

03/04/2019

5300MHz_TX



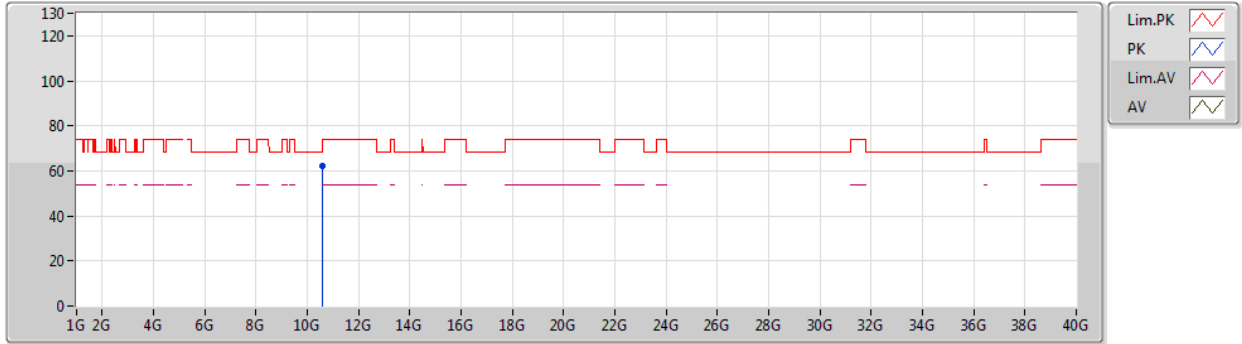
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	10.60618G	62.18	74.00	-11.82	14.97	3	Vertical	298	2.40	-



802.11ac VHT20_Nss1,(MCS0)_2TX

03/04/2019

5300MHz_TX



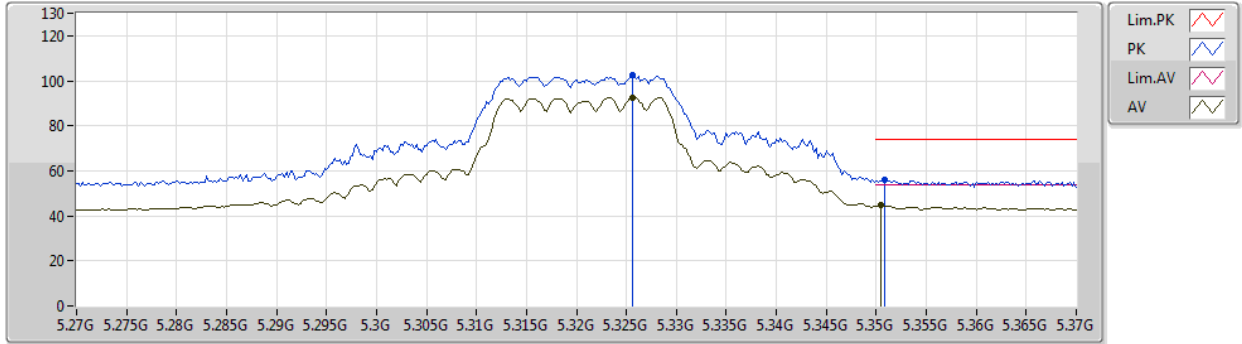
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	10.61242G	61.99	74.00	-12.01	14.98	3	Horizontal	201	1.03	-



802.11ac VHT20_Nss1,(MCS0)_2TX

03/04/2019

5320MHz_TX



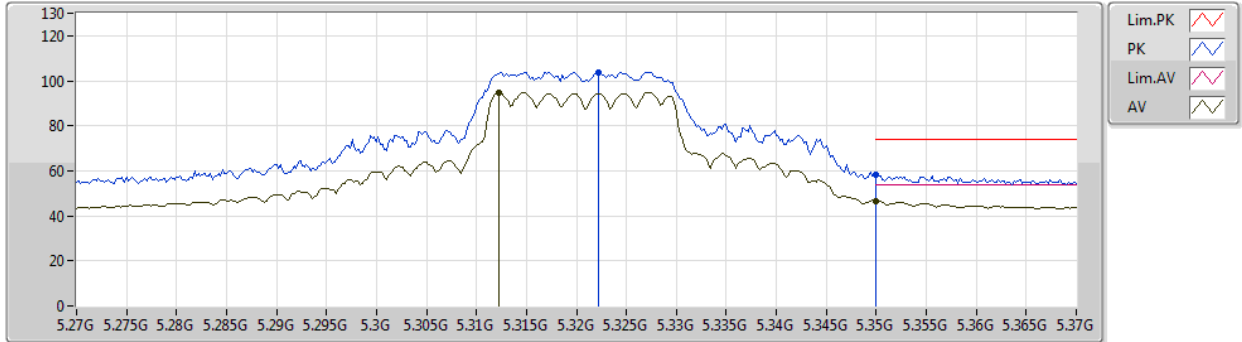
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.3256G	92.57	Inf	-Inf	4.30	3	Vertical	10	2.28	-
AV	5.3504G	44.64	54.00	-9.36	4.32	3	Vertical	10	2.28	-
PK	5.3256G	102.54	Inf	-Inf	4.30	3	Vertical	10	2.28	-
PK	5.3508G	56.10	74.00	-17.90	4.32	3	Vertical	10	2.28	-



802.11ac VHT20_Nss1,(MCS0)_2TX

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5320MHz_TX



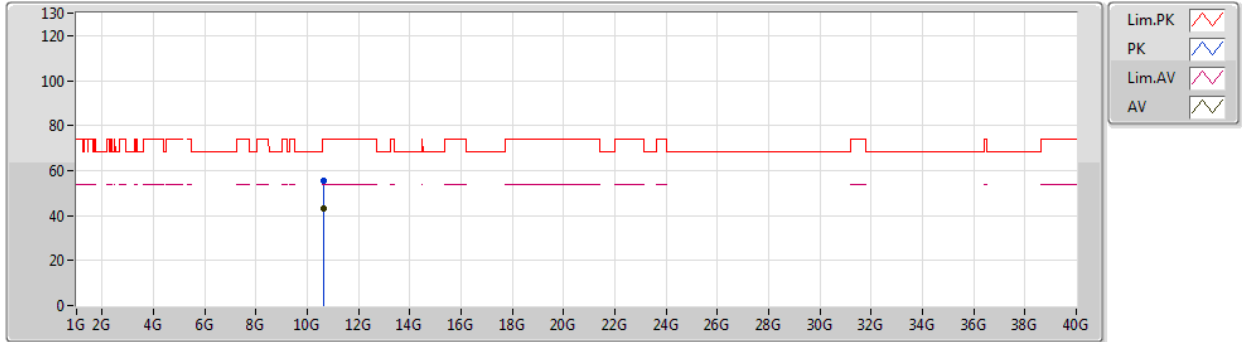
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.3122G	94.79	Inf	-Inf	4.28	3	Horizontal	166	2.04	-
AV	5.35G	46.56	54.00	-7.44	4.32	3	Horizontal	166	2.04	-
PK	5.3222G	103.90	Inf	-Inf	4.29	3	Horizontal	166	2.04	-
PK	5.35G	58.47	74.00	-15.53	4.32	3	Horizontal	166	2.04	-



802.11ac VHT20_Nss1,(MCS0)_2TX

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5320MHz_TX



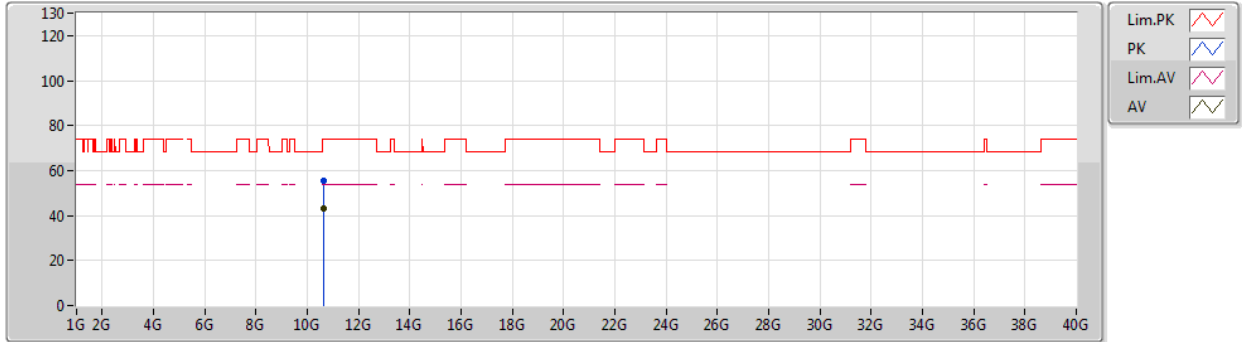
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	10.62956G	43.17	54.00	-10.83	15.02	3	Vertical	58	1.71	-
PK	10.63754G	55.64	74.00	-18.36	15.04	3	Vertical	58	1.71	-



802.11ac VHT20_Nss1,(MCS0)_2TX

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5320MHz_TX



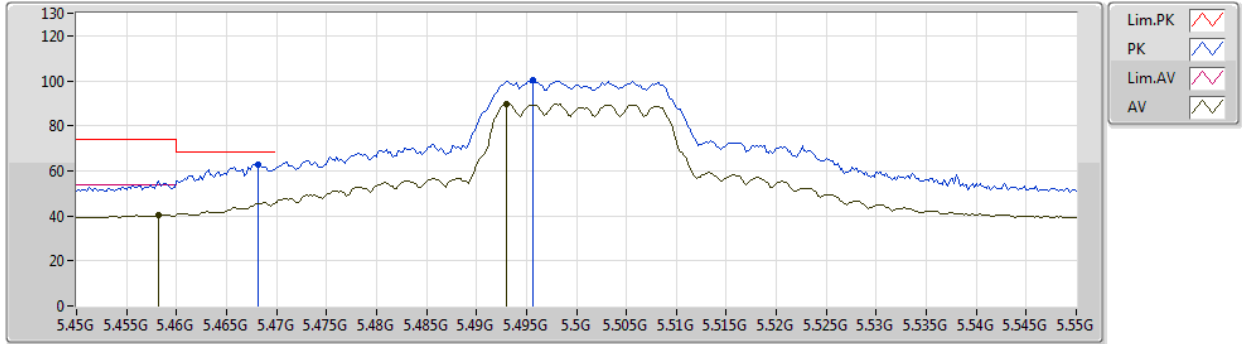
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	10.63736G	43.03	54.00	-10.97	15.04	3	Horizontal	121	1.55	-
PK	10.63472G	55.43	74.00	-18.57	15.04	3	Horizontal	121	1.55	-



802.11ac VHT20_Nss1,(MCS0)_2TX

10/04/2019

5500MHz_TX



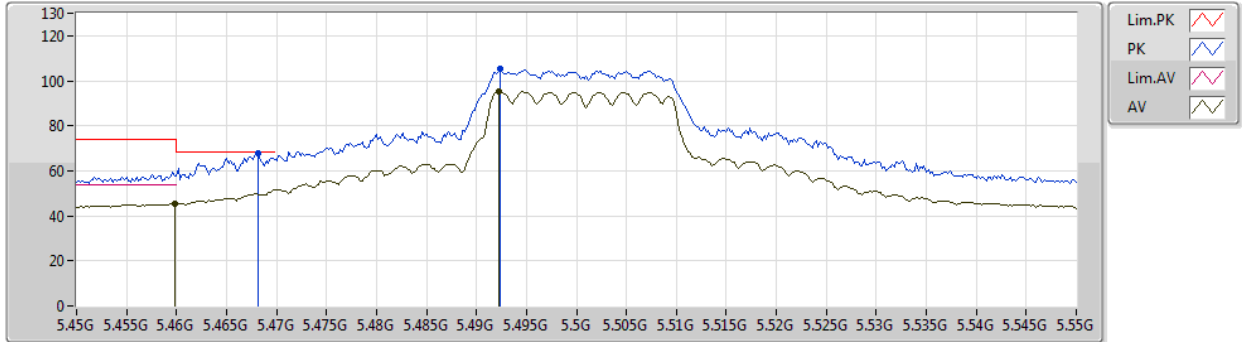
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.4582G	40.47	54.00	-13.53	4.45	3	Vertical	34	2.21	-
AV	5.493G	89.54	Inf	-Inf	4.49	3	Vertical	34	2.21	-
PK	5.4682G	63.01	68.20	-5.19	4.47	3	Vertical	34	2.21	-
PK	5.4956G	100.20	Inf	-Inf	4.50	3	Vertical	34	2.21	-



802.11ac VHT20_Nss1,(MCS0)_2TX

10/04/2019

5500MHz_TX



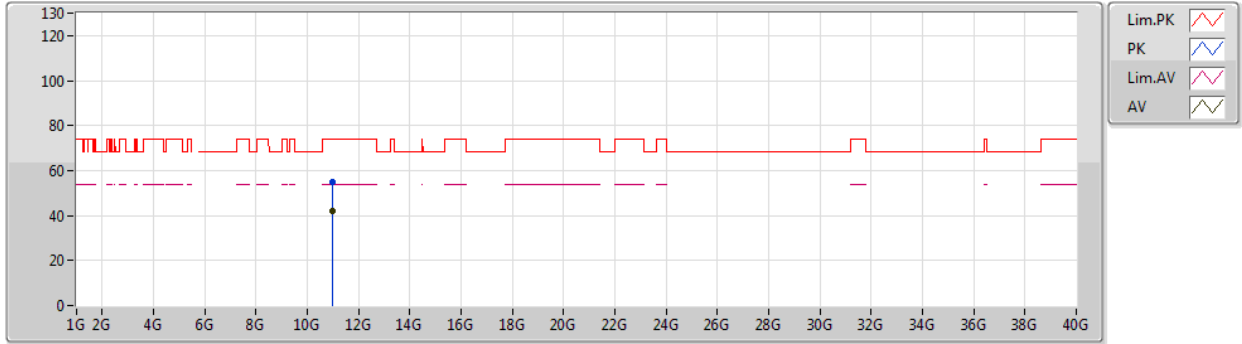
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.4598G	45.51	54.00	-8.49	4.46	3	Horizontal	19	2.55	-
AV	5.4922G	95.16	Inf	-Inf	4.49	3	Horizontal	19	2.55	-
PK	5.4682G	67.79	68.20	-0.41	4.47	3	Horizontal	19	2.55	-
PK	5.4924G	105.15	Inf	-Inf	4.49	3	Horizontal	19	2.55	-



802.11ac VHT20_Nss1,(MCS0)_2TX

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5500MHz_TX



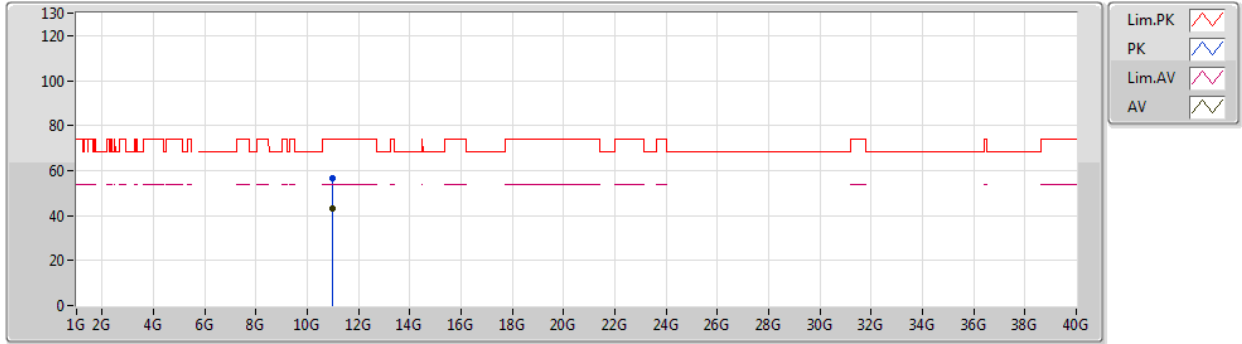
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	11.00132G	41.94	54.00	-12.06	15.98	3	Vertical	109	2.97	-
PK	10.99992G	54.95	74.00	-19.05	15.98	3	Vertical	109	2.97	-



802.11ac VHT20_Nss1,(MCS0)_2TX

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5500MHz_TX



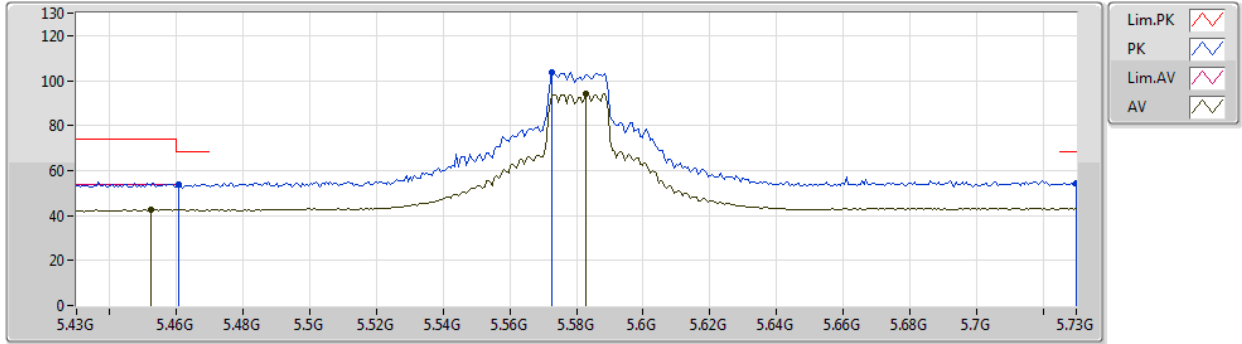
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	11.00155G	43.24	54.00	-10.76	15.98	3	Horizontal	200	1.66	-
PK	11.00092G	56.57	74.00	-17.43	15.98	3	Horizontal	200	1.66	-



802.11ac VHT20_Nss1,(MCS0)_2TX

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5580MHz_TX



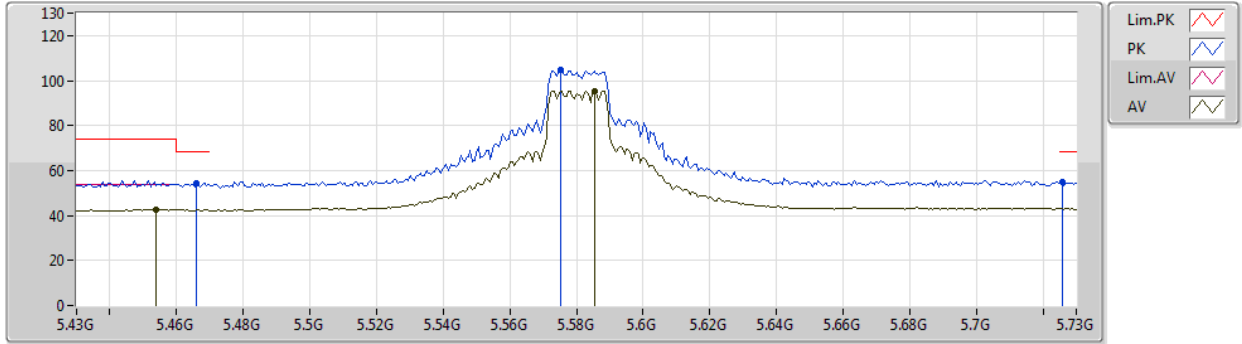
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.4522G	42.62	54.00	-11.38	4.44	3	Vertical	20	2.25	-
AV	5.583G	94.08	Inf	-Inf	4.67	3	Vertical	20	2.25	-
PK	5.4606G	54.06	68.20	-14.14	4.46	3	Vertical	20	2.25	-
PK	5.5728G	103.55	Inf	-Inf	4.65	3	Vertical	20	2.25	-
PK	5.73G	54.21	68.20	-13.99	4.96	3	Vertical	20	2.25	-



802.11ac VHT20_Nss1,(MCS0)_2TX

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5580MHz_TX

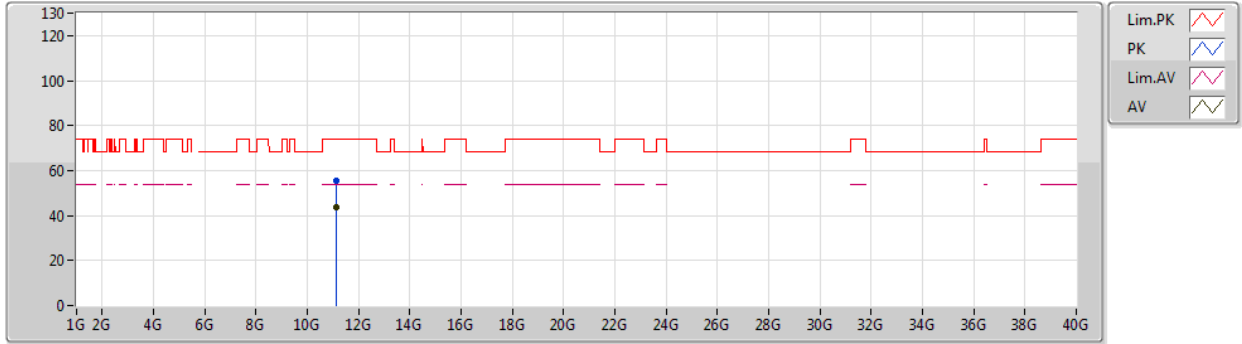


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.454G	42.66	54.00	-11.34	4.45	3	Horizontal	187	2.05	-
AV	5.5854G	95.48	Inf	-Inf	4.67	3	Horizontal	187	2.05	-
PK	5.466G	54.31	68.20	-13.89	4.46	3	Horizontal	187	2.05	-
PK	5.5752G	104.83	Inf	-Inf	4.66	3	Horizontal	187	2.05	-
PK	5.7258G	54.84	68.20	-13.36	4.96	3	Horizontal	187	2.05	-

802.11ac VHT20_Nss1,(MCS0)_2TX

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5580MHz_TX



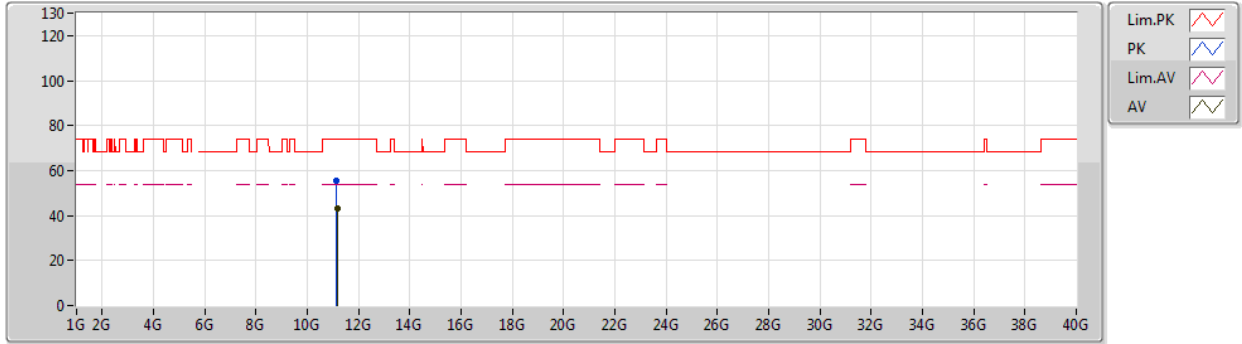
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	11.15262G	43.86	54.00	-10.14	15.86	3	Vertical	128	1.03	-
PK	11.1459G	55.67	74.00	-18.33	15.86	3	Vertical	128	1.03	-



802.11ac VHT20_Nss1,(MCS0)_2TX

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5580MHz_TX



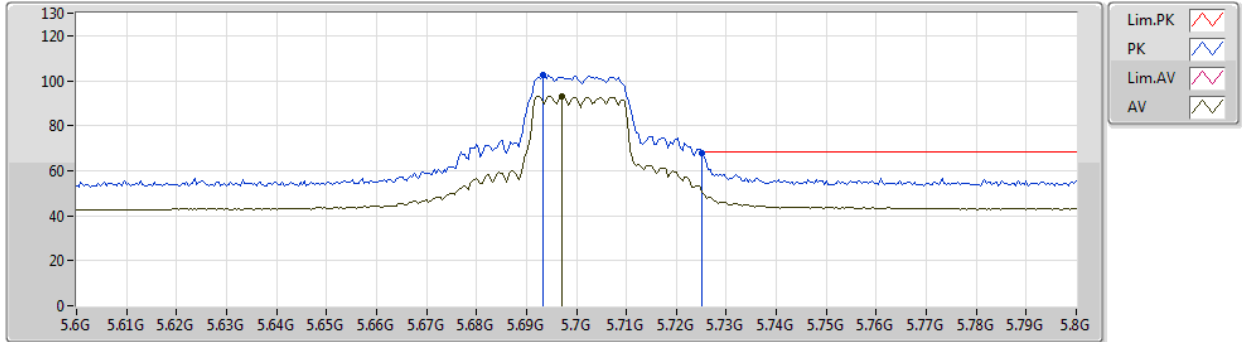
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	11.1606G	43.20	54.00	-10.80	15.85	3	Horizontal	77	1.93	-
PK	11.14788G	55.23	74.00	-18.77	15.85	3	Horizontal	77	1.93	-



802.11ac VHT20_Nss1,(MCS0)_2TX

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5700MHz_TX



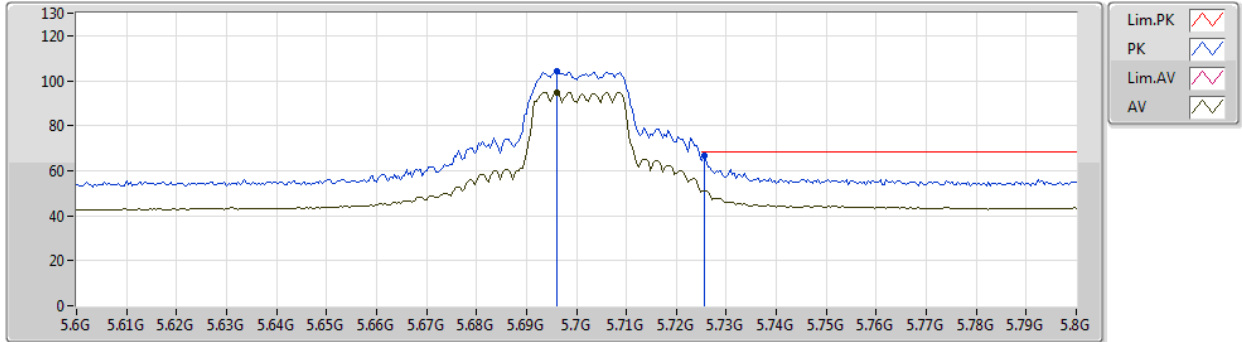
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.6972G	93.16	Inf	-Inf	4.91	3	Vertical	324	2.20	-
PK	5.6932G	102.46	Inf	-Inf	4.90	3	Vertical	324	2.20	-
PK	5.7252G	67.55	68.20	-0.65	4.96	3	Vertical	324	2.20	-



802.11ac VHT20_Nss1,(MCS0)_2TX

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5700MHz_TX



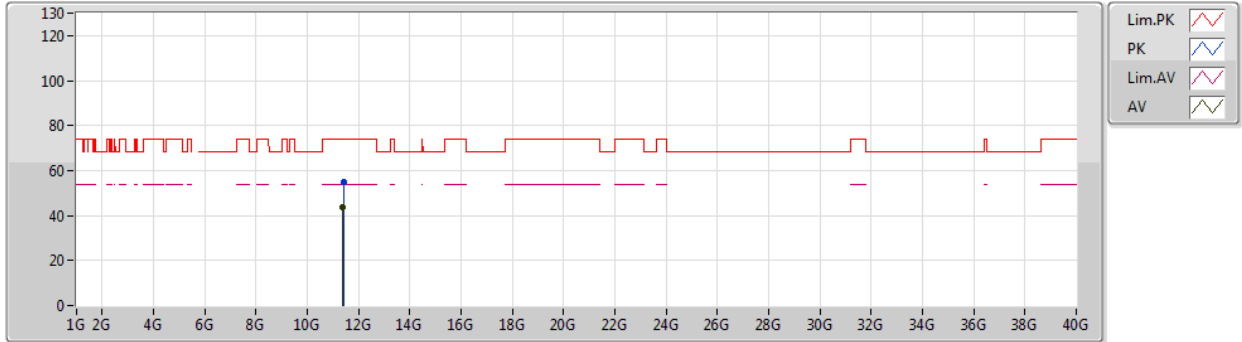
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	5.696G	94.83	Inf	-Inf	4.90	3	Horizontal	331	2.12	-
PK	5.696G	104.03	Inf	-Inf	4.90	3	Horizontal	331	2.12	-
PK	5.7256G	66.47	68.20	-1.73	4.96	3	Horizontal	331	2.12	-



802.11ac VHT20_Nss1,(MCS0)_2TX

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5700MHz_TX



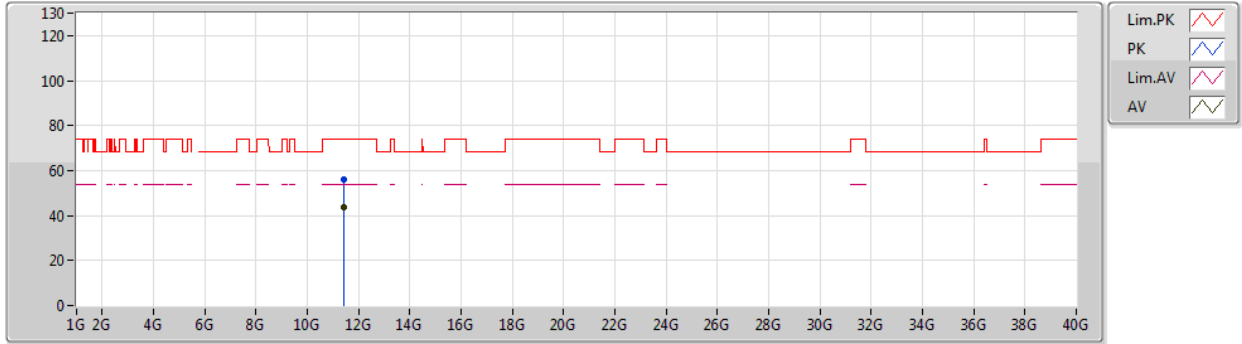
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	11.40096G	43.75	54.00	-10.25	15.64	3	Vertical	241	2.33	-
PK	11.41218G	54.97	74.00	-19.03	15.62	3	Vertical	241	2.33	-



802.11ac VHT20_Nss1,(MCS0)_2TX

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5700MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	11.40378G	56.23	74.00	-17.77	15.63	3	Horizontal	95	1.22	-
AV	11.40828G	43.50	54.00	-10.50	15.63	3	Horizontal	95	1.22	-