

FCC Test Report

FCC ID : Z8H89FT0071
Equipment : e410 Indoor Wi-Fi access point, 802.11ac wave 2, 2x2
Brand Name :  Cambium Networks
Model Name : e410YYYYYYY(Y can be 0-9, a-z, A-Z, blank, "+" or "-" or "#")
Applicant : Cambium Networks Inc.
3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA
Manufacturer : Cambium Networks Ltd.
Unit B2 Linhay Business Park Eastern Rd Ashburton, Devon
TQ13 7UP United Kingdom
Standard : 47 CFR FCC Part 15.407

The product was received on Jan. 04, 2021, and testing was started from Jan. 08, 2021 and completed on Feb. 11, 2021. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this 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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Report Template No.: HE1-D1 Ver2.6
FCC ID: Z8H89FT0071

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: Ben Tseng

Report Producer: Amber Chiu

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]
5250-5350	n (HT40), ac (VHT40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
5250-5350	ac (VHT80)	5290	58 [1]
5470-5725		5530-5610	106-122 [2]

Non-Beamforming

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
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX

Beamforming

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ac VHT20-BF	20	2TX
5.25-5.35GHz	802.11ac VHT40-BF	40	2TX
5.25-5.35GHz	802.11ac VHT80-BF	80	2TX
5.47-5.725GHz	802.11ac VHT20-BF	20	2TX
5.47-5.725GHz	802.11ac VHT40-BF	40	2TX
5.47-5.725GHz	802.11ac VHT80-BF	80	2TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	LYNwave	MLX20M222AA0A	embedded antenna	I-PEX
2	LYNwave	MLX20M222AA0A	embedded antenna	I-PEX

Ant.	Port	Gain (dBi)	
		2.4G	5G
1	1	4.5	5.7
2	2	4.5	5.7

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 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

Operational Condition			
EUT Power Type	From PoE		
EUT Function	☐	Outdoor AP	☒ Indoor AP
	☐	Fixed P2P AP	☐ Outdoor/Indoor Client
Beamforming Function	☒	With beamforming	☐ Without beamforming
TPC Function	☒	With TPC Function	☐ Without TPC Function
Weather Band	☒	With 5600~5650MHz	☐ Without 5600~5650MHz
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

Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.963	0.16	2.065m	1k
802.11ac VHT20_Nss1,(MCS0)_2TX	0.985	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40_Nss1,(MCS0)_2TX	0.969	0.14	2.437m	1k
802.11ac VHT80_Nss1,(MCS0)_2TX	0.935	0.29	1.149m	1k

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

Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	0.948	0.23	1.894m	1k
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	0.863	0.64	1.956m	1k
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	0.775	1.11	1.974m	1k

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

1.1.5 Table for Multiple Listing

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

Model Name	Description
e410YYYYYYY(Y can be 0-9, a-z, A-Z, blank, "+" or "-" or "#")	All the models are identical, the difference model for as marketing strategy.

1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR0D3123AN.

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

Modifications	Performance Checking
Frequency bands U-NII-2A and U-NII-2C was added.	Emission Bandwidth, Maximum Conducted Output Power, Peak Power Spectral Density, Radiated Emissions was evaluated.

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

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

- ♦ KDB 662911 D01 v02r01
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
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.			
☐	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Vivi Jiang	20.1~26.9°C / 50~60%	08/Jan/2021~ 10/Feb/2021
Radiated	03CH03-HY	Billy Wang	15.2~21.6°C / 45~60%	10/Jan/2021~ 11/Feb/2021

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)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	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

Non-Beamforming

Test Software Version	QCARCT 3.0.265.0
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	16.5
5300MHz	16.5
5320MHz	16.5
5500MHz	17
5580MHz	17.5
5700MHz	16
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5260MHz	16.5
5300MHz	16.5
5320MHz	16.5
5500MHz	17
5580MHz	17.5
5700MHz	17.5
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5270MHz	19.5
5310MHz	17
5510MHz	17.5
5550MHz	20.5
5670MHz	19
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5290MHz	15.5
5530MHz	17
5610MHz	19.5

**Beamforming**

Test Software Version	Dos 6.1
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Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5260MHz	18
5300MHz	18
5320MHz	19
5500MHz	20
5580MHz	22
5700MHz	20
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5270MHz	21
5310MHz	18
5510MHz	18
5550MHz	21
5670MHz	20
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5290MHz	18
5530MHz	18
5610MHz	20

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		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

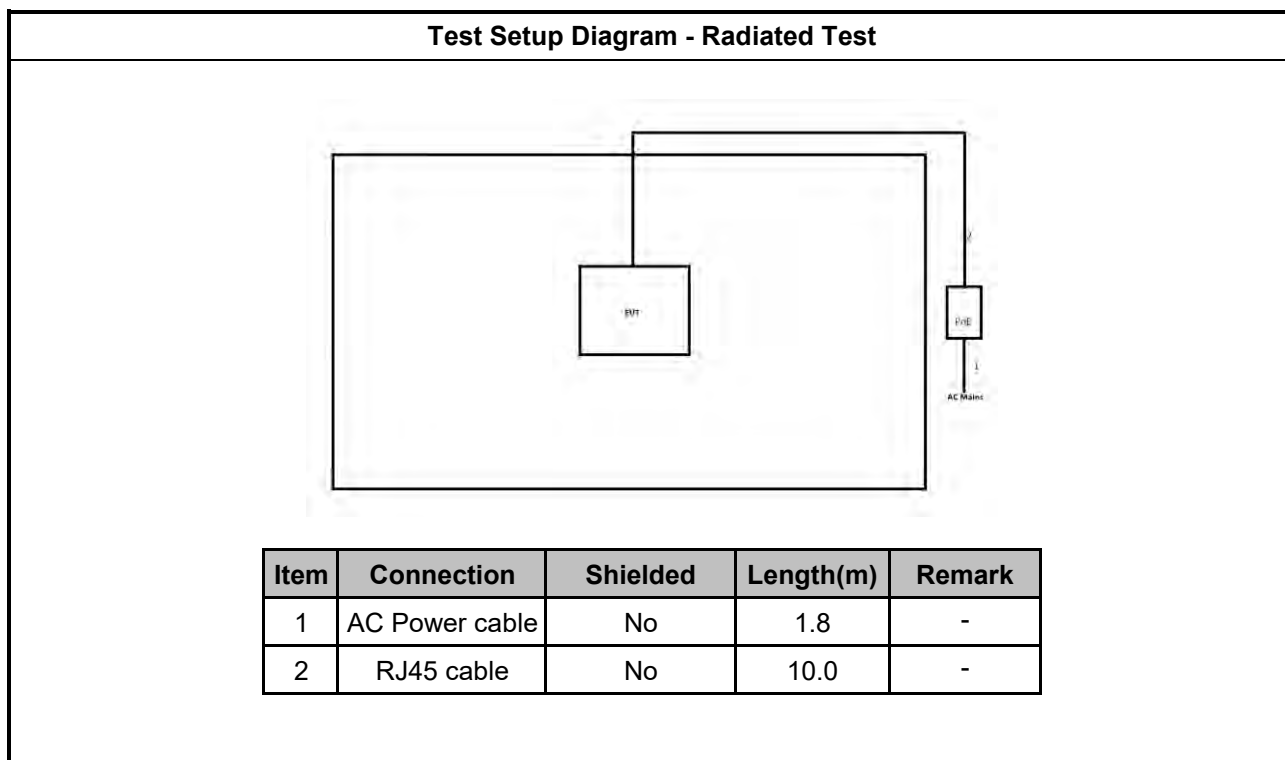
2.4 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE	Cambium	NET-P30-56IN	-	Note
2	RJ-45 cable	Power Sync	CAT-6E-10	-	-
3	RJ-45 cable	Power Sync	CAT-6E-01	-	-
4	Notebook (Remote)	ACER	JAL90	-	Note
5	Notebook (Remote)	Dell	E5540	-	-
6	Dongle (Remote)	Dual Band	USB Adapter	-	Note

Note: Support equipment No.1 & 4 & 6 was provided by customer.

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 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, N/A
☒	For the 5.47-5.725 GHz band, N/A
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

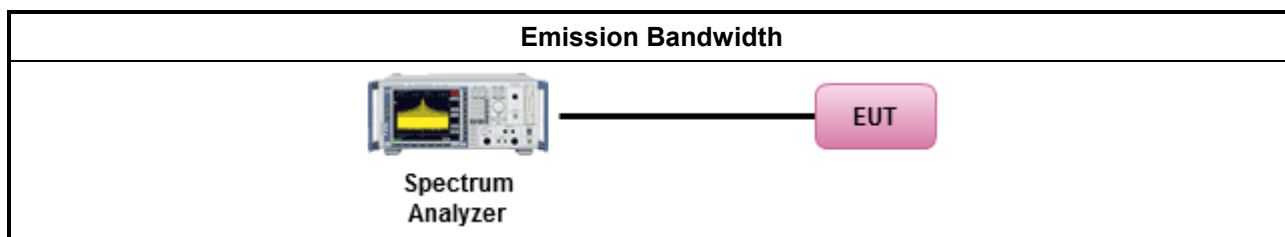
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
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 6.7 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	
☐ 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 $11 \text{ dBm} + 10 \log B$, 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 $11 \text{ dBm} + 10 \log B$, 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.	

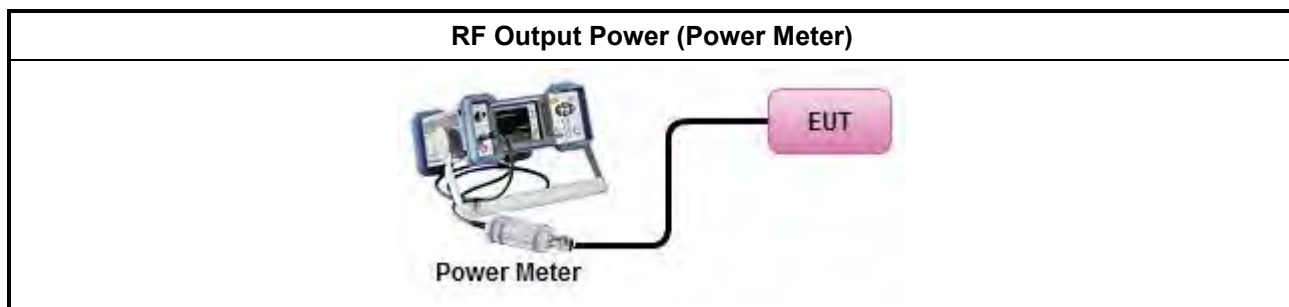
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	Duty cycle $\geq 98\%$
☐	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: $P_{total} = P_1 + P_2 + \dots + P_n$ (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	
☐ 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 the 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.	

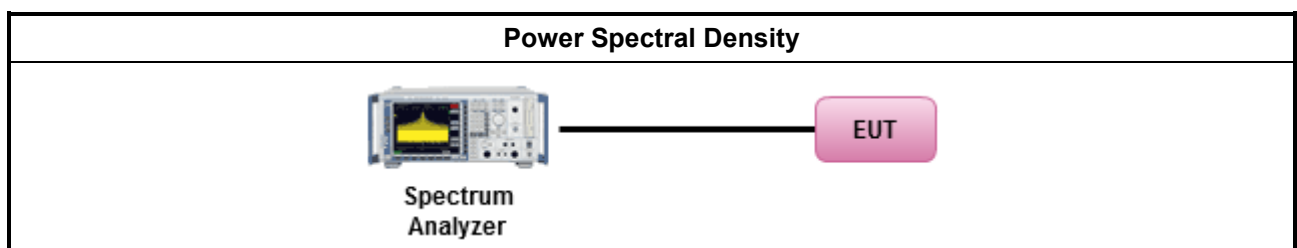
3.3.2 Measuring Instruments

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

3.3.3 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: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (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	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as 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.	

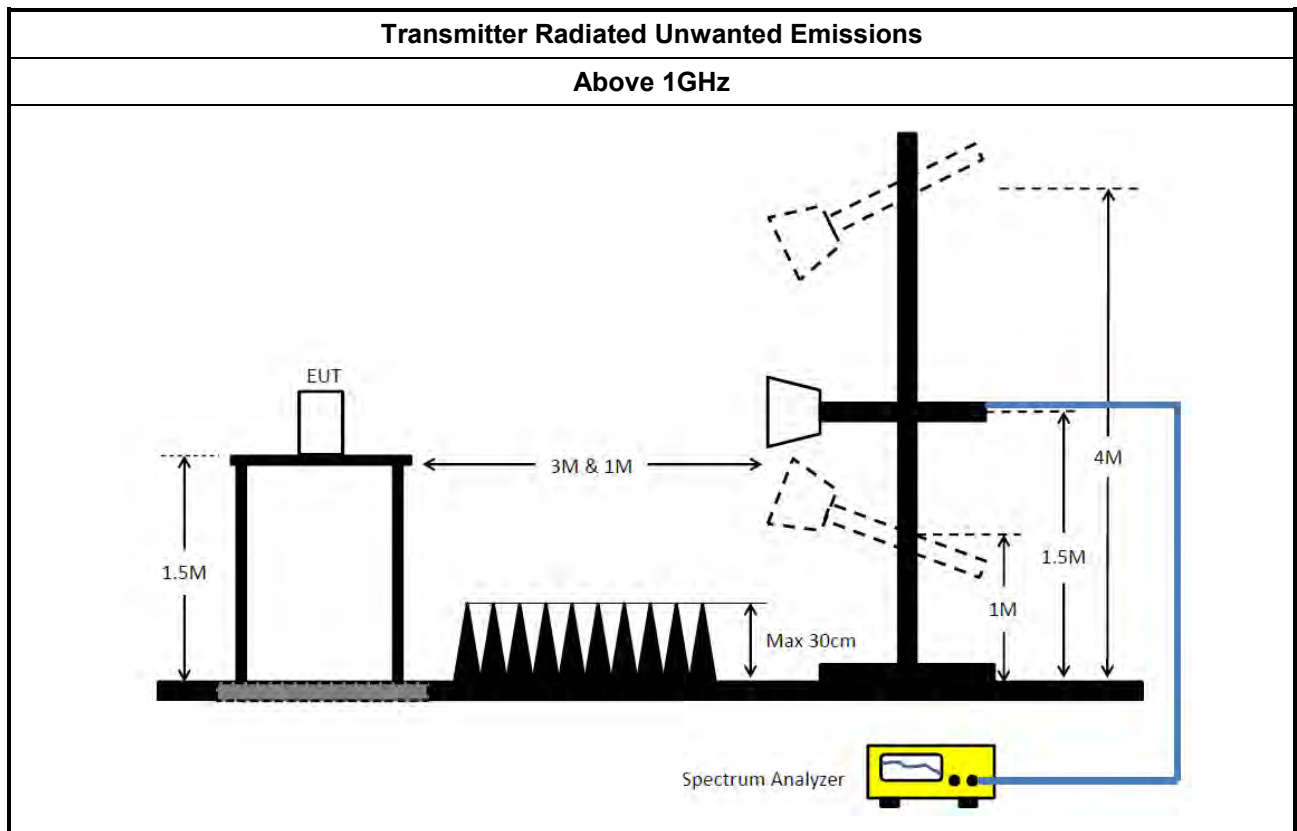
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.4.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.4.5 Test Setup



3.4.6 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.

3.4.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D

4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer / Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	19/Mar/2020	18/Mar/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	917017	300MHz~40GHz	17/Feb/2020	16/Feb/2021
Power Meter	Anritsu	ML2495A	949003	300MHz~40GHz	17/Feb/2020	16/Feb/2021

Instrument for Radiated Test

Instrument	Manufacturer / Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	04/Aug/2020	03/Aug/2021
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	19/Aug/2020	18/Aug/2021
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz~26.5GHz	06/Oct/2020	05/Oct/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	26/Mar/2020	25/Mar/2021
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	SN MY38596/4+S N 804300/4	1GHz~40GHz	04/Aug/2020	03/Aug/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021

**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	22.23M	16.672M	16M7D1D	21.36M	16.612M
802.11ac VHT20_Nss1,(MCS0)_2TX	23.31M	17.871M	17M9D1D	22.74M	17.781M
802.11ac VHT40_Nss1,(MCS0)_2TX	55.44M	36.702M	36M7D1D	44.28M	36.642M
802.11ac VHT80_Nss1,(MCS0)_2TX	90M	76.522M	76M5D1D	88.68M	76.522M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.96M	16.702M	16M7D1D	21.51M	16.612M
802.11ac VHT20_Nss1,(MCS0)_2TX	23.55M	17.931M	17M9D1D	22.8M	17.781M
802.11ac VHT40_Nss1,(MCS0)_2TX	45.3M	36.762M	36M8D1D	44.16M	36.522M
802.11ac VHT80_Nss1,(MCS0)_2TX	89.76M	76.642M	76M6D1D	88.32M	76.402M

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

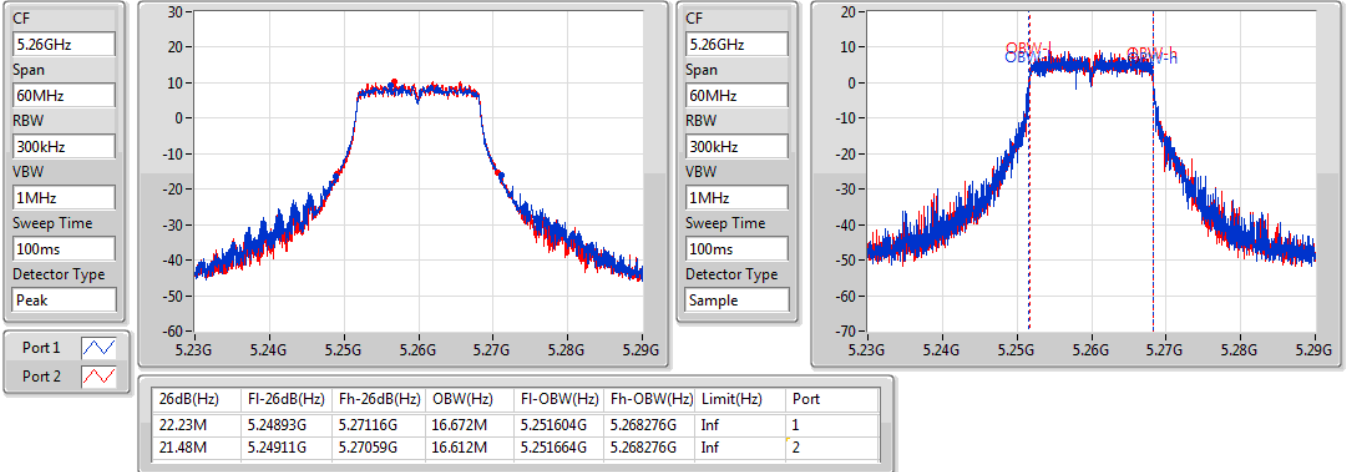
Result

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	22.23M	16.672M	21.48M	16.612M
5300MHz	Pass	Inf	21.9M	16.672M	21.51M	16.612M
5320MHz	Pass	Inf	22.02M	16.672M	21.36M	16.612M
5500MHz	Pass	Inf	21.81M	16.672M	21.51M	16.642M
5580MHz	Pass	Inf	21.9M	16.672M	21.6M	16.612M
5700MHz	Pass	Inf	21.96M	16.642M	21.6M	16.702M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	23.28M	17.871M	22.89M	17.841M
5300MHz	Pass	Inf	23.1M	17.841M	22.74M	17.811M
5320MHz	Pass	Inf	23.31M	17.841M	22.77M	17.781M
5500MHz	Pass	Inf	23.55M	17.901M	23.01M	17.781M
5580MHz	Pass	Inf	23.37M	17.871M	22.8M	17.841M
5700MHz	Pass	Inf	23.22M	17.841M	23.04M	17.931M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	55.44M	36.642M	44.94M	36.702M
5310MHz	Pass	Inf	44.28M	36.642M	44.4M	36.702M
5510MHz	Pass	Inf	44.16M	36.522M	44.28M	36.642M
5550MHz	Pass	Inf	45.3M	36.582M	44.58M	36.762M
5670MHz	Pass	Inf	45.12M	36.642M	44.94M	36.702M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	90M	76.522M	88.68M	76.522M
5530MHz	Pass	Inf	89.76M	76.522M	88.32M	76.522M
5610MHz	Pass	Inf	89.64M	76.402M	89.04M	76.642M

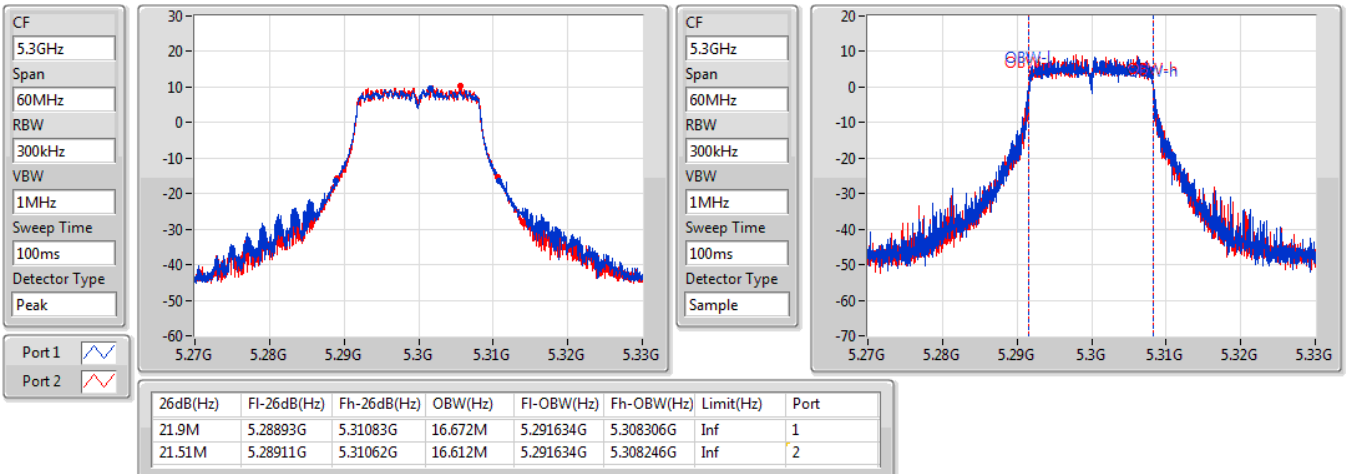
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

22/01/2021

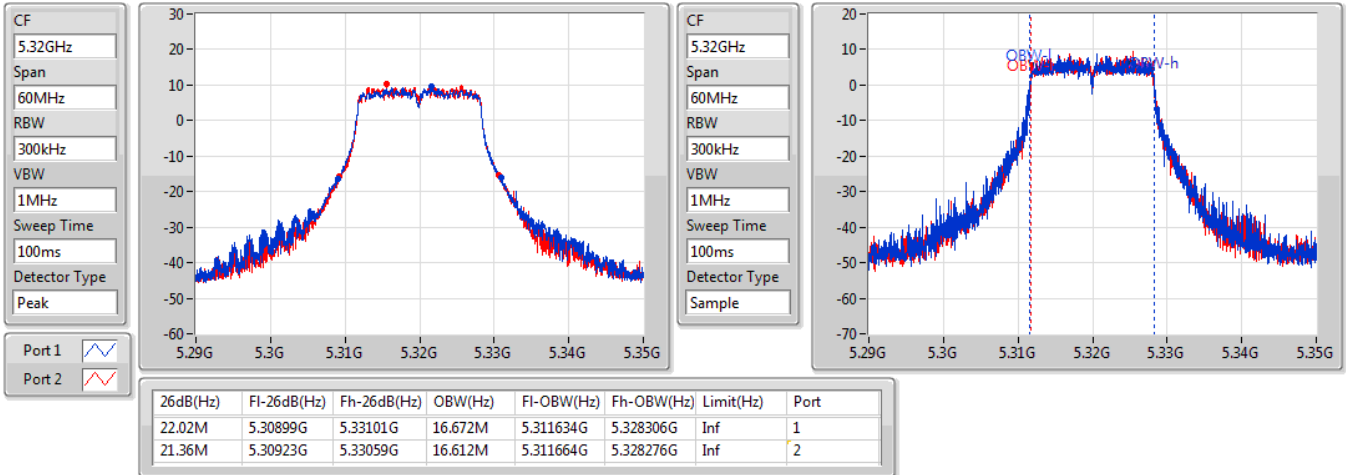

802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

22/01/2021

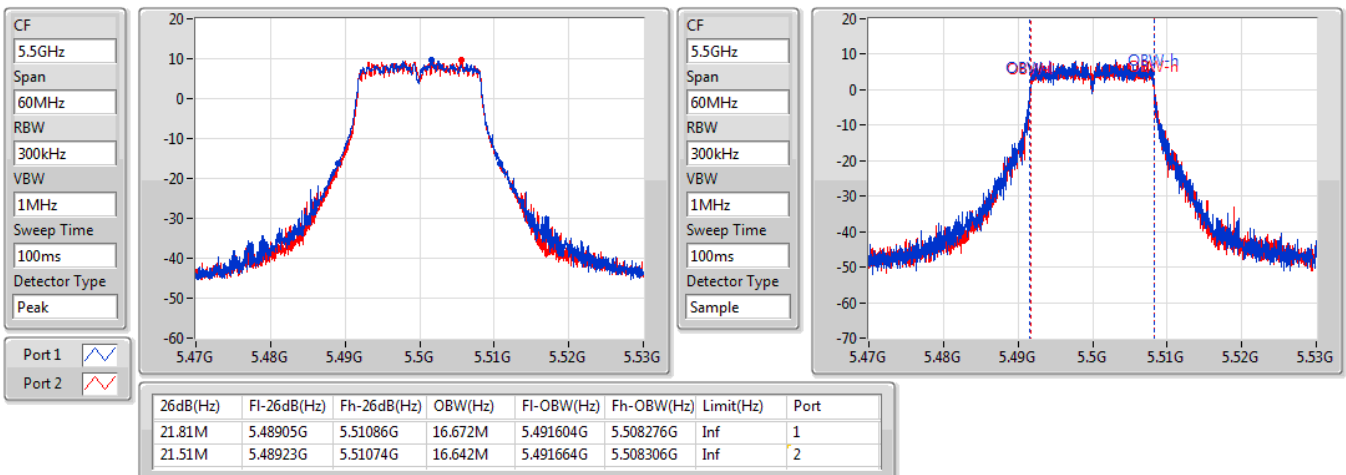


802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

22/01/2021

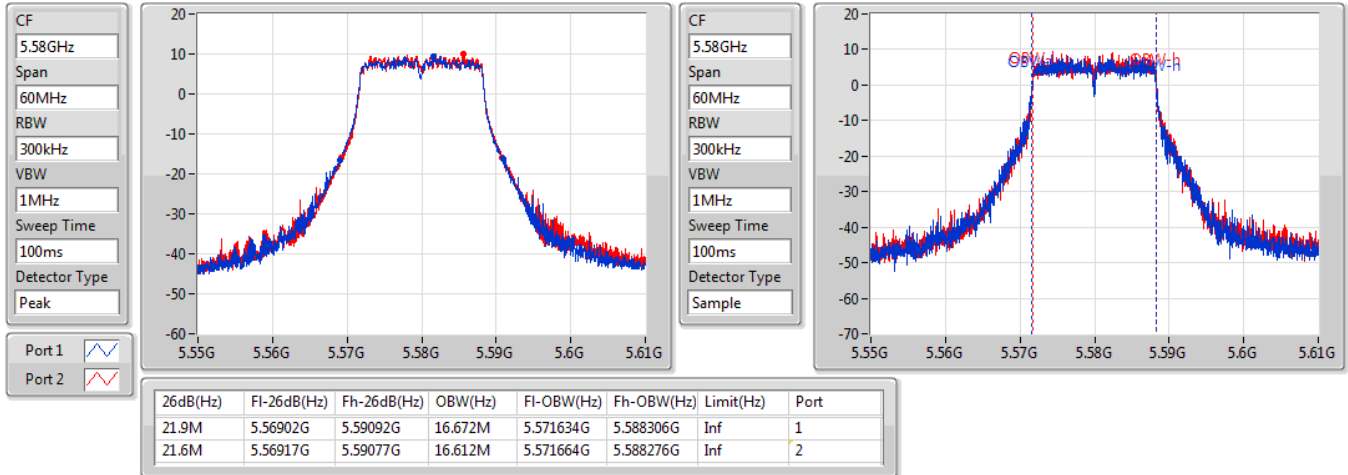

802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

22/01/2021

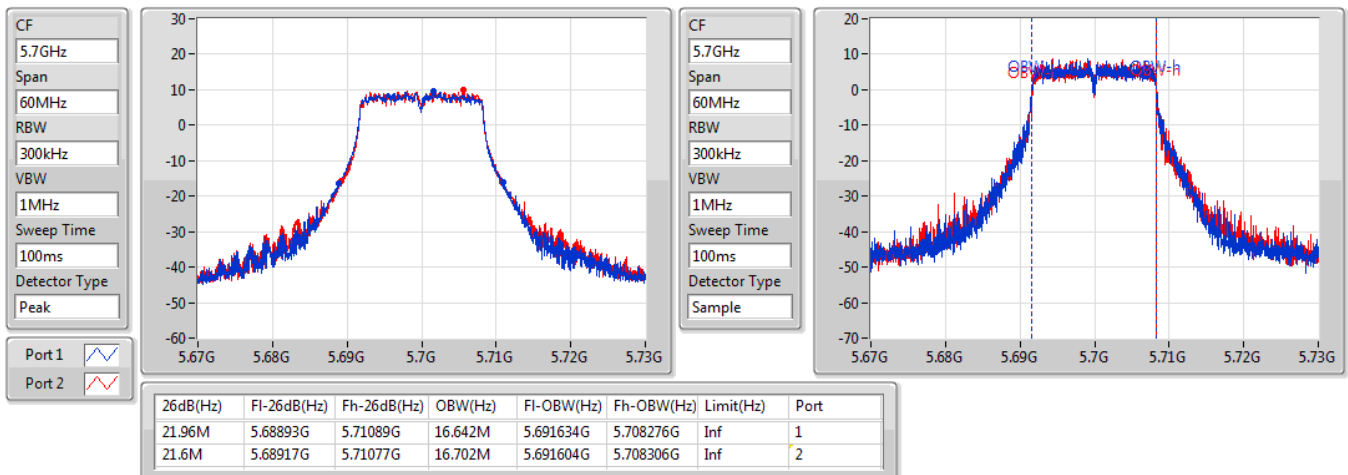


802.11a_Nss1,(6Mbps)_2TX
EBW
5580MHz

22/01/2021

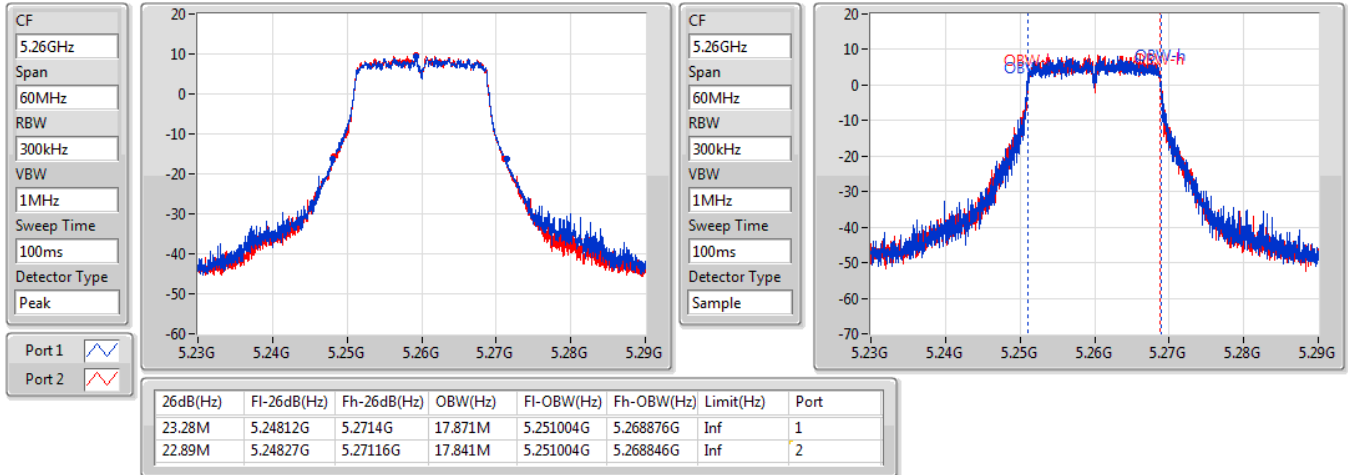

802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

22/01/2021

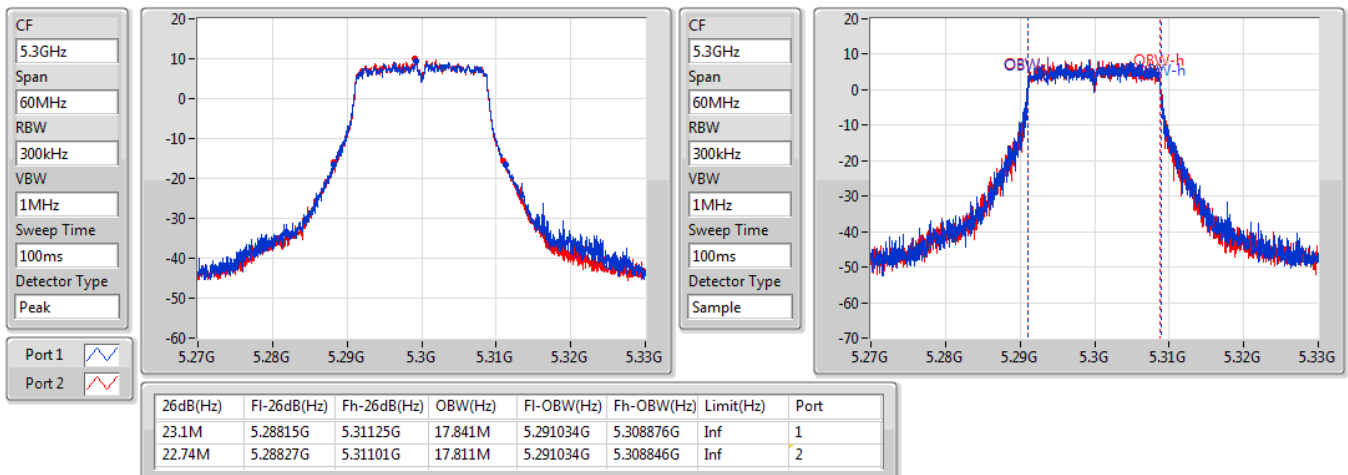


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5260MHz

22/01/2021

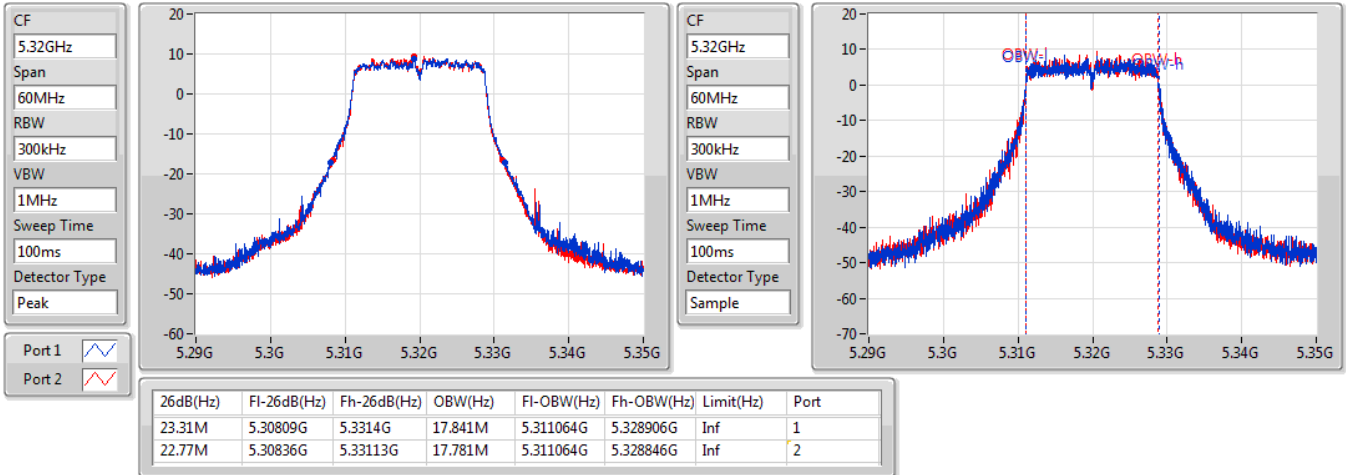

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5300MHz

22/01/2021

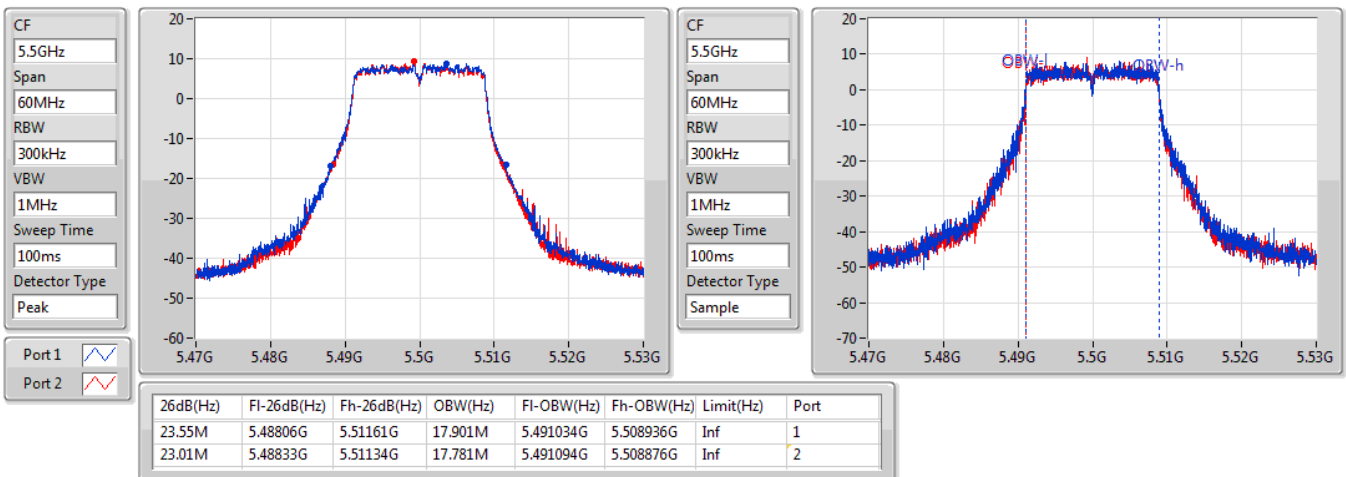


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5320MHz

22/01/2021

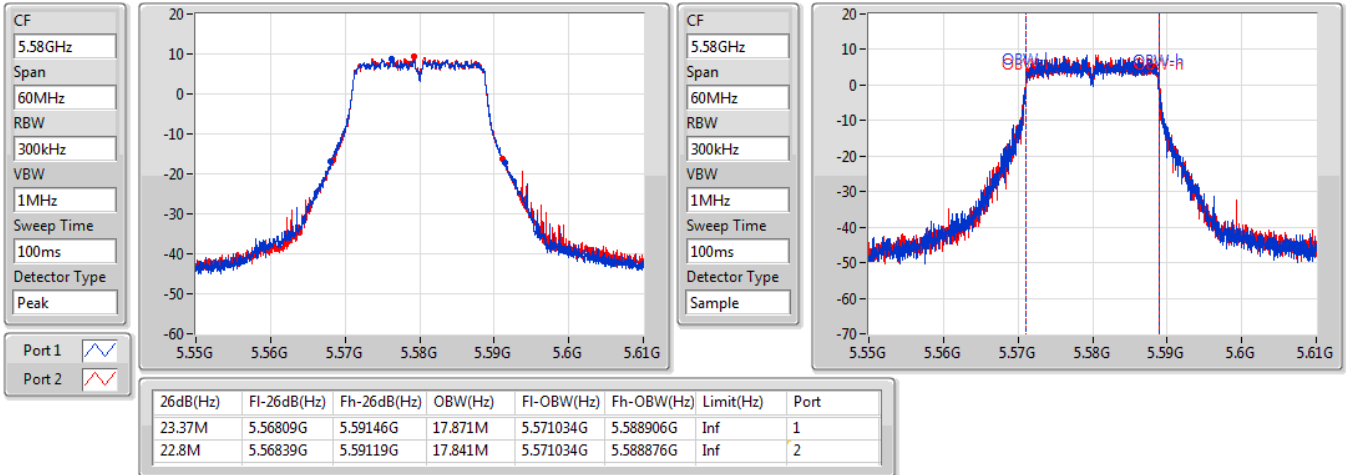

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5500MHz

22/01/2021

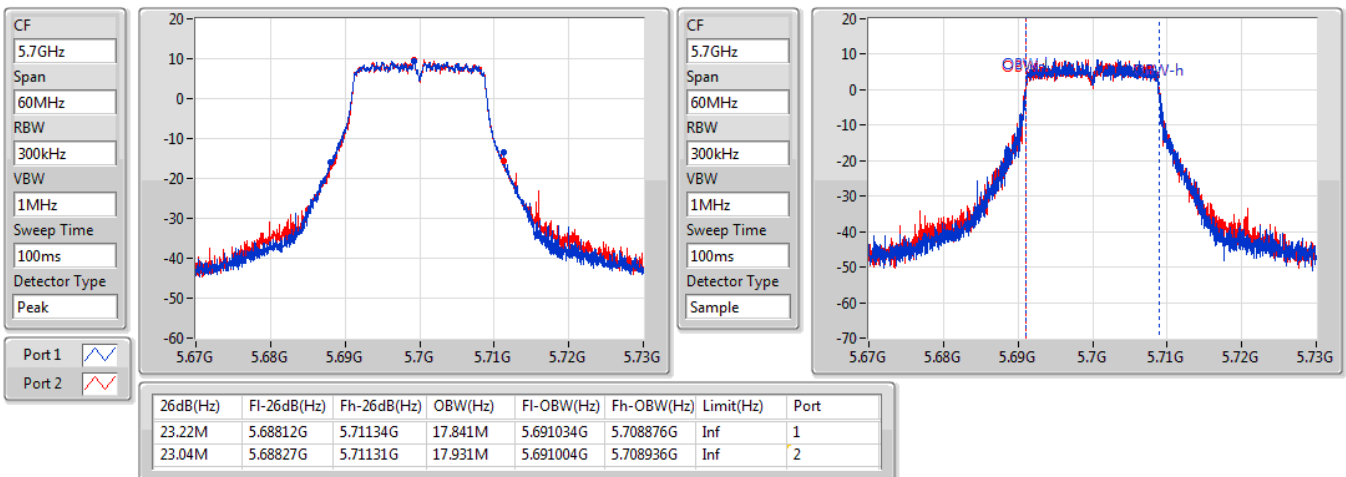


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5580MHz

22/01/2021

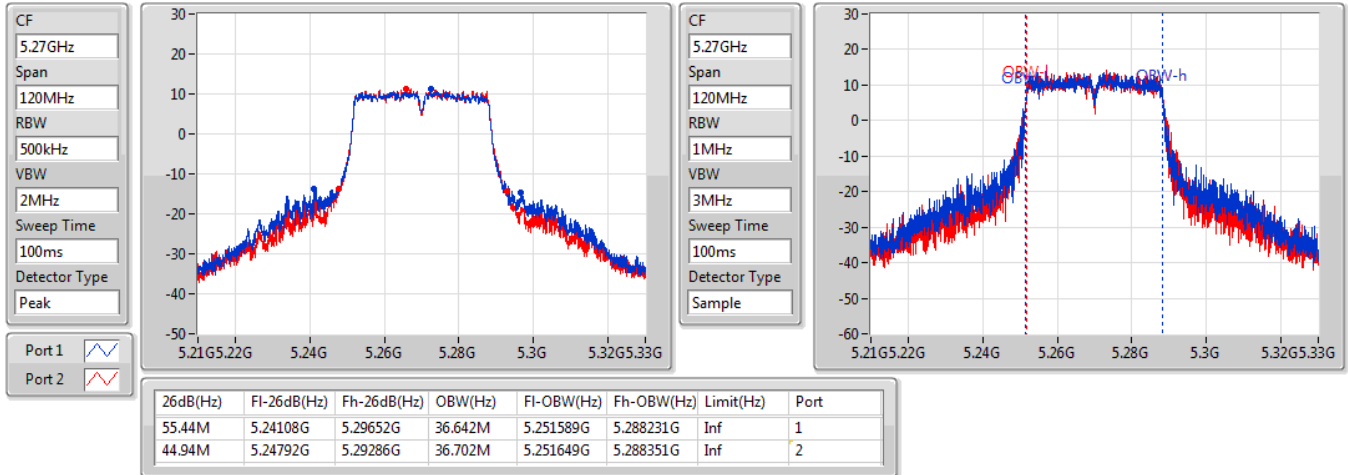

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5700MHz

22/01/2021

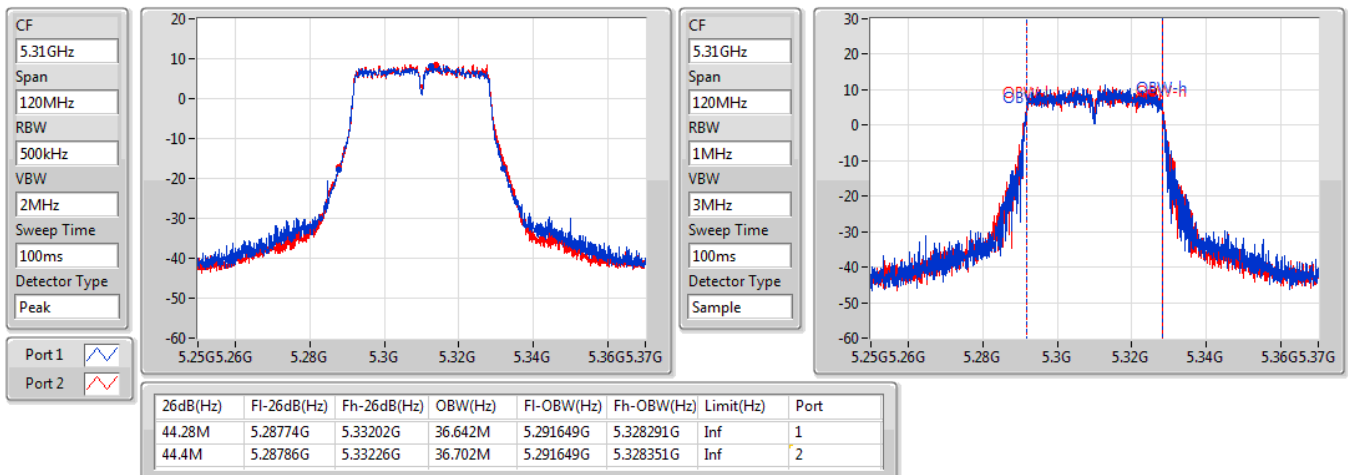


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5270MHz

22/01/2021

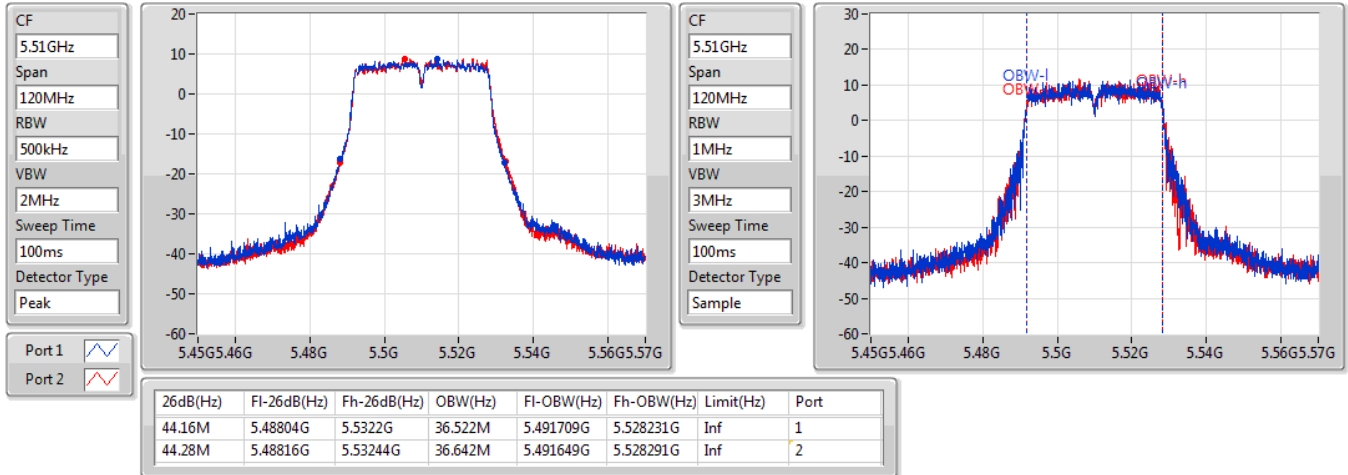

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5310MHz

22/01/2021

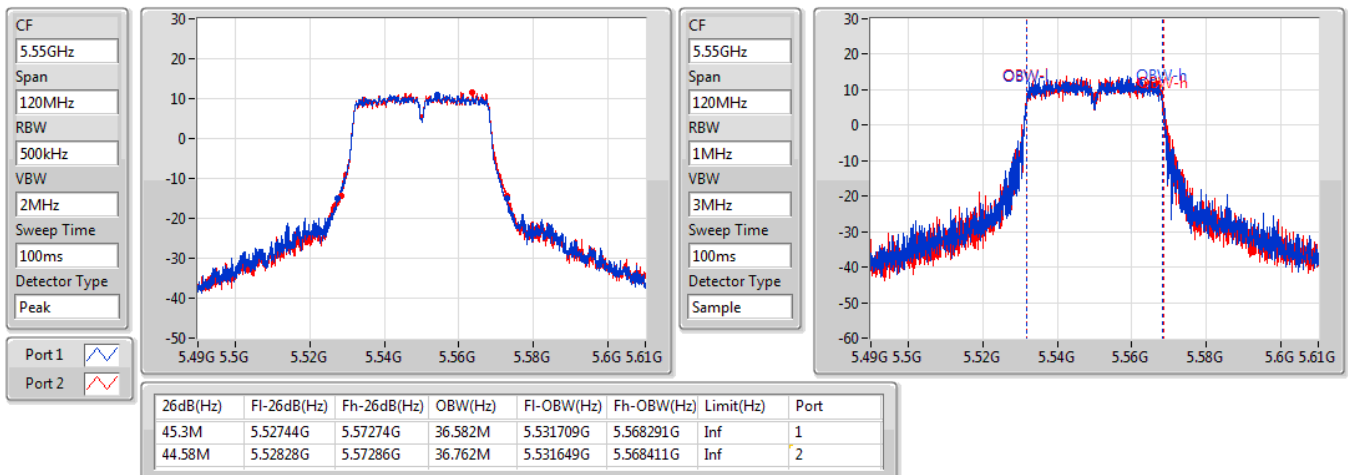


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5510MHz

22/01/2021

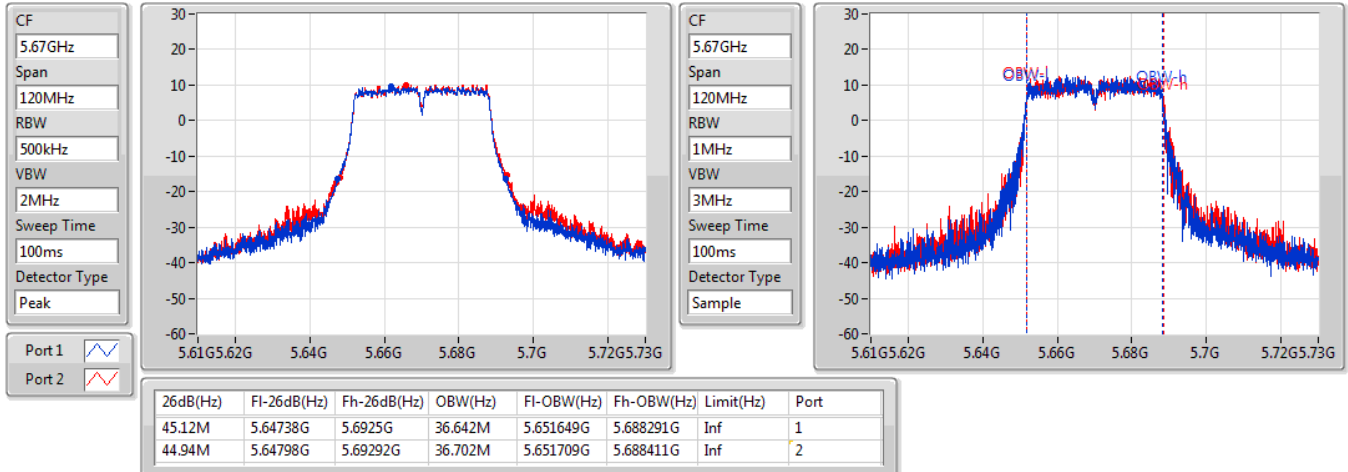

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5550MHz

22/01/2021

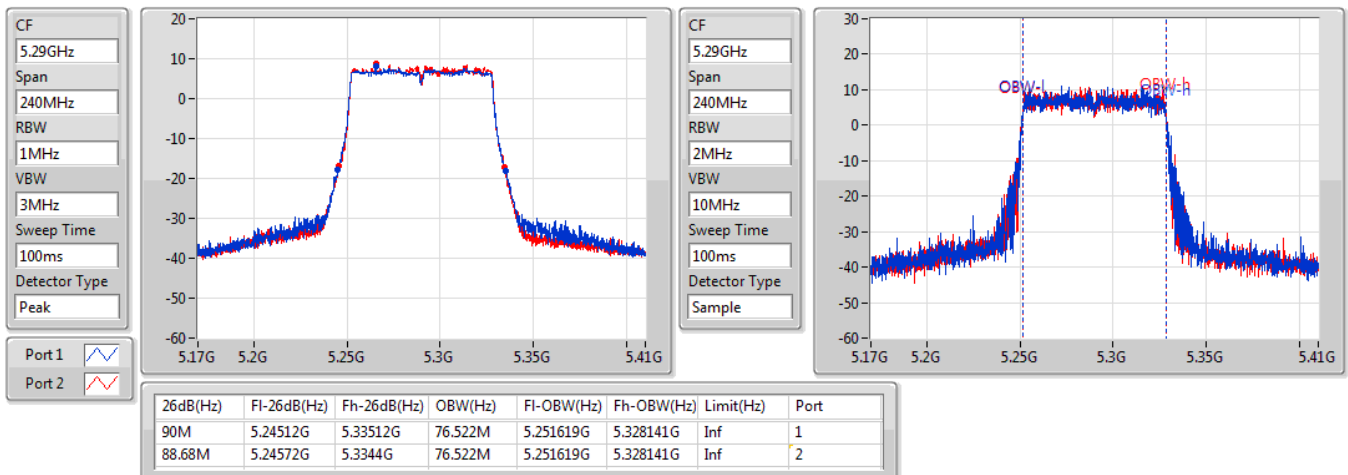


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5670MHz

22/01/2021

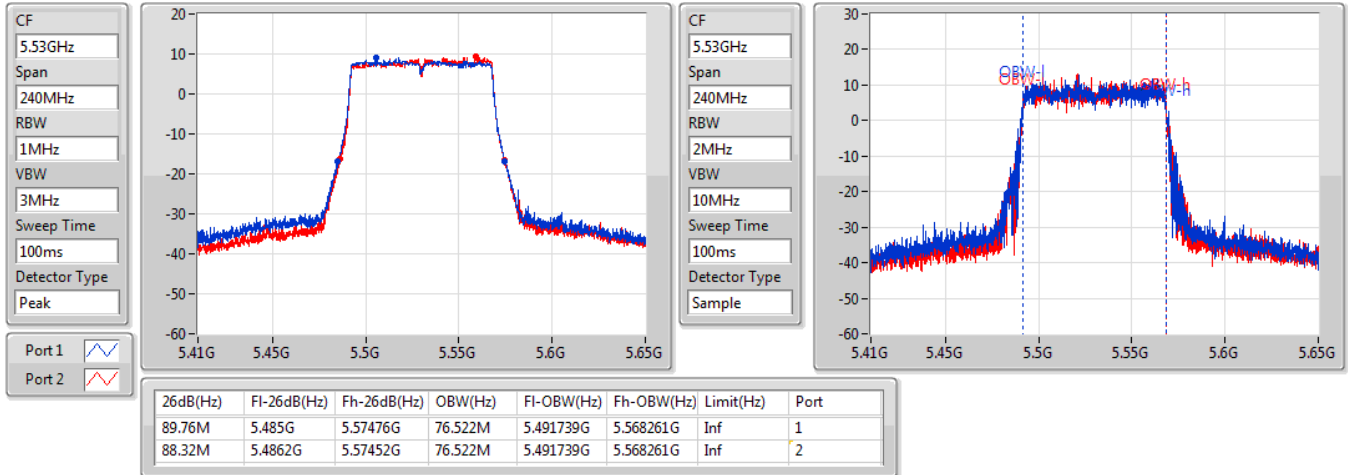

802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5290MHz

22/01/2021

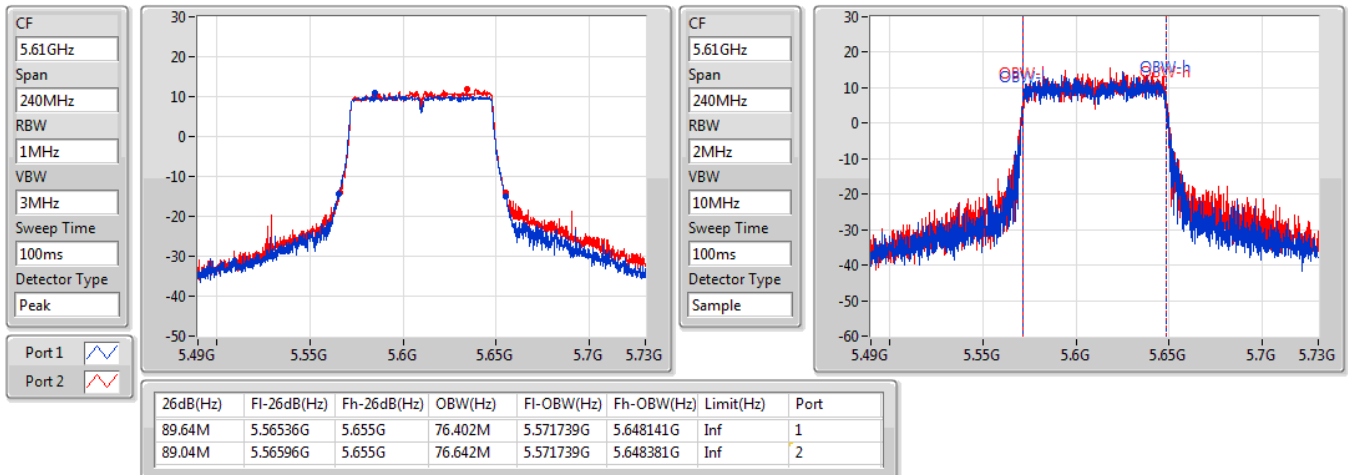


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5530MHz

22/01/2021


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5610MHz

22/01/2021



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	23.82M	17.91M	17M9D1D	22.98M	17.811M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	45.66M	36.72M	36M7D1D	44.76M	36.66M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	83.16M	77.76M	77M8D1D	82.92M	77.28M
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	23.34M	17.94M	17M9D1D	22.29M	17.85M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	45.66M	36.84M	36M8D1D	42.9M	36.54M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	83.52M	77.64M	77M6D1D	81.72M	77.16M

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

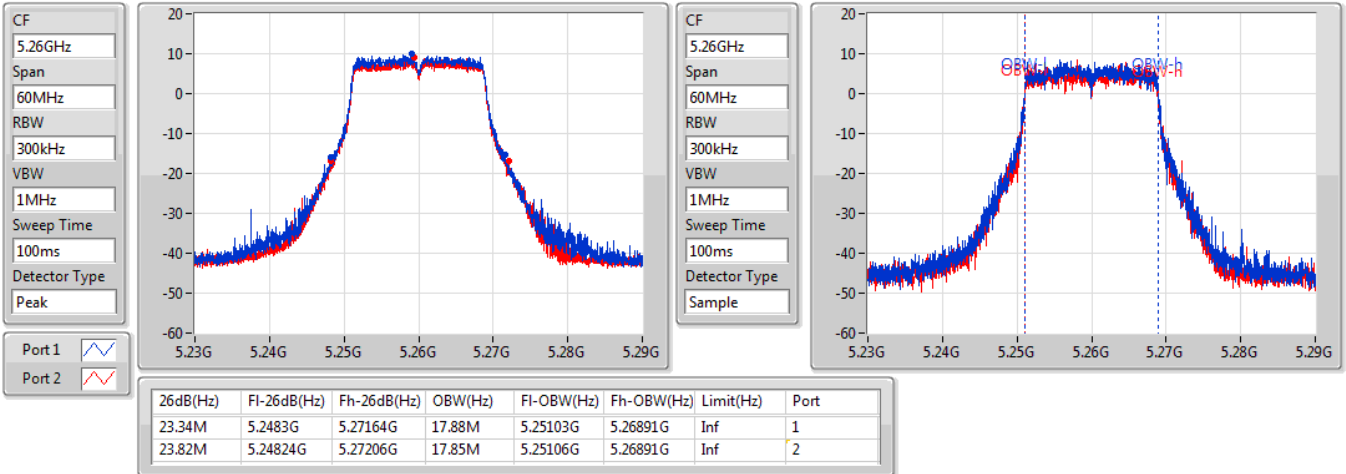
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	23.34M	17.88M	23.82M	17.85M
5300MHz	Pass	Inf	22.98M	17.91M	23.46M	17.85M
5320MHz	Pass	Inf	23.13M	17.841M	23.28M	17.811M
5500MHz	Pass	Inf	22.8M	17.85M	23.01M	17.88M
5580MHz	Pass	Inf	22.8M	17.88M	22.29M	17.88M
5700MHz	Pass	Inf	23.34M	17.88M	22.95M	17.94M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	44.76M	36.72M	44.82M	36.66M
5310MHz	Pass	Inf	45.3M	36.72M	45.66M	36.72M
5510MHz	Pass	Inf	45.12M	36.6M	45.66M	36.66M
5550MHz	Pass	Inf	43.26M	36.84M	42.9M	36.54M
5670MHz	Pass	Inf	45.18M	36.72M	43.98M	36.54M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	82.92M	77.76M	83.16M	77.28M
5530MHz	Pass	Inf	82.92M	77.64M	83.52M	77.52M
5610MHz	Pass	Inf	81.72M	77.16M	81.84M	77.28M

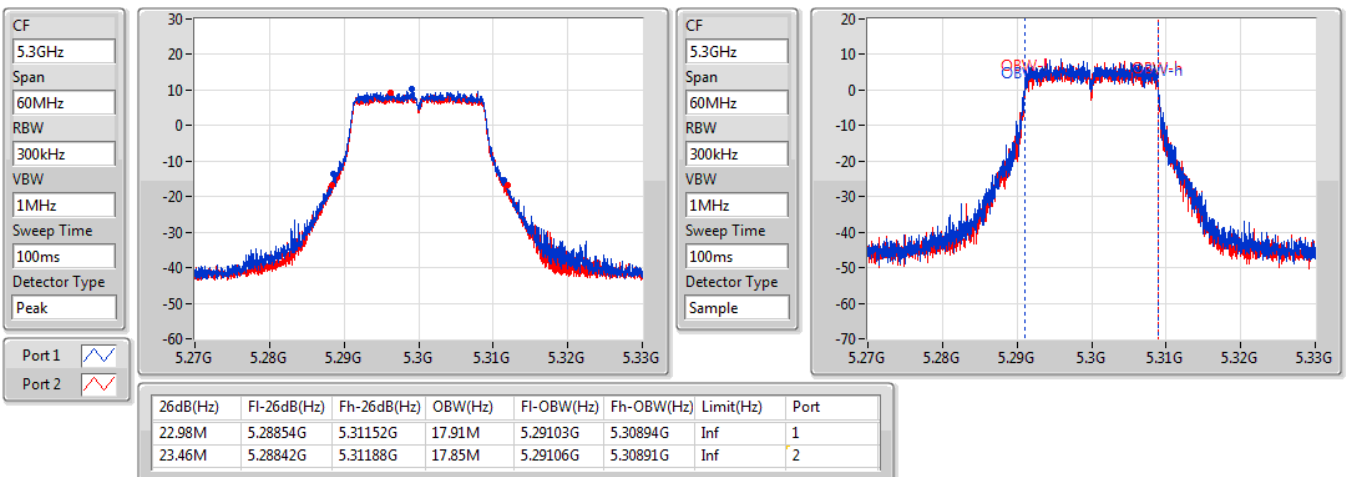
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5260MHz

29/01/2021

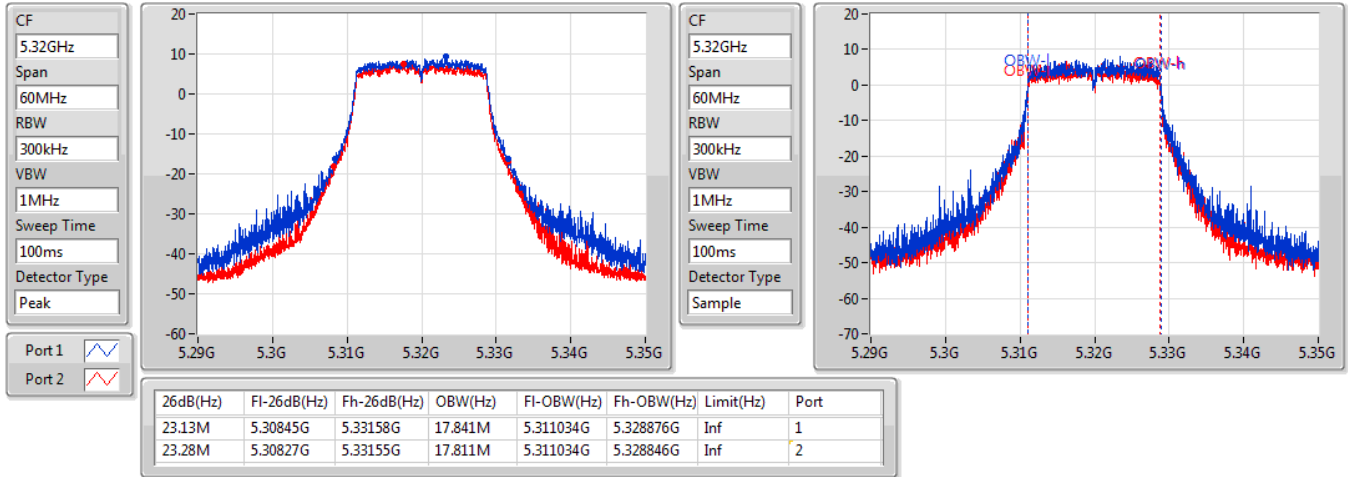

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5300MHz

29/01/2021

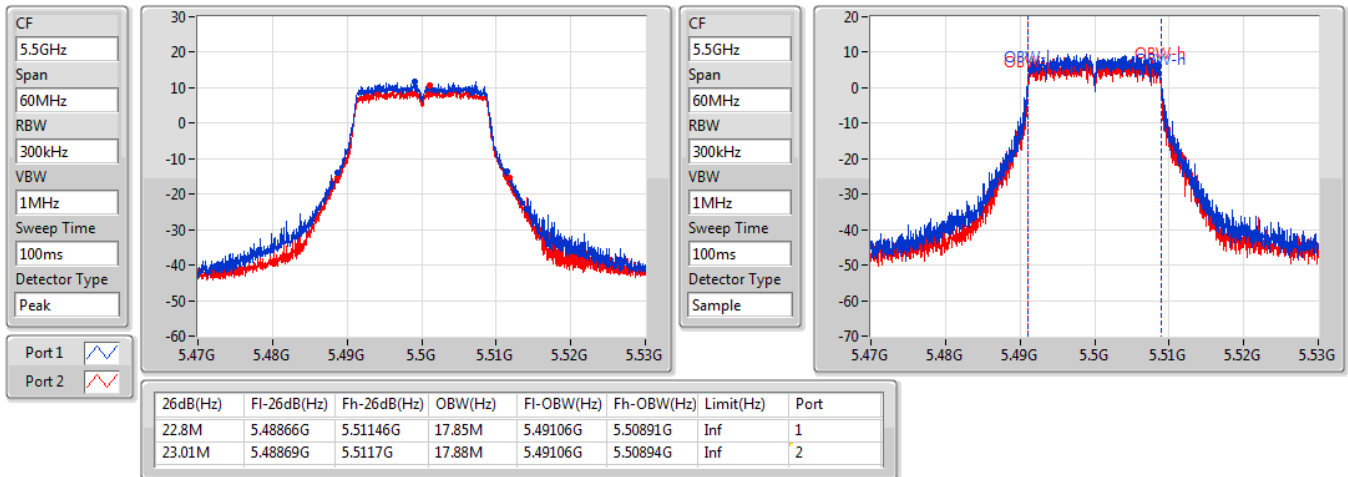


802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5320MHz

10/02/2021

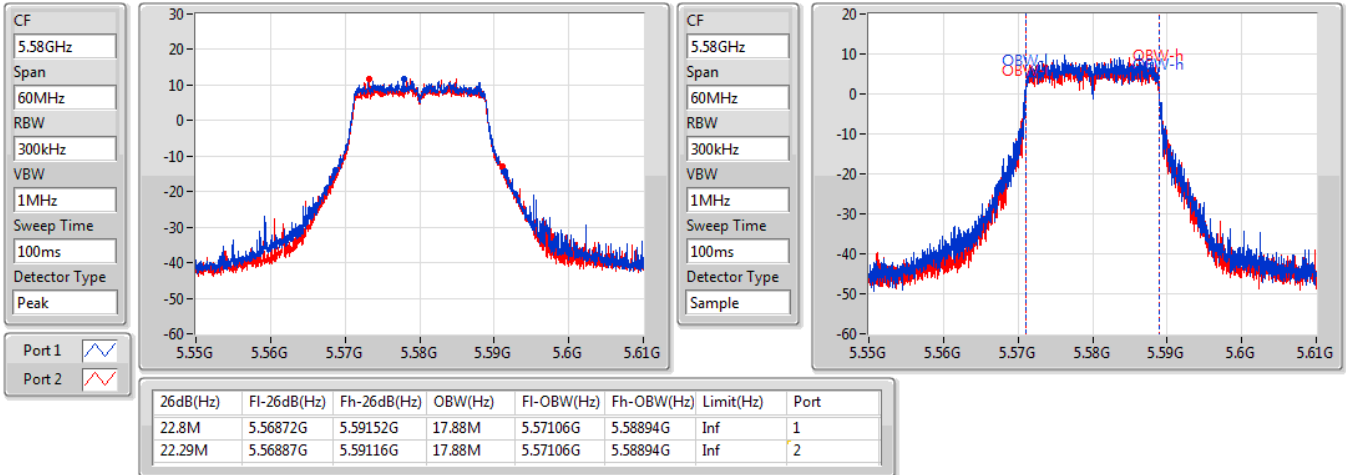

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5500MHz

29/01/2021

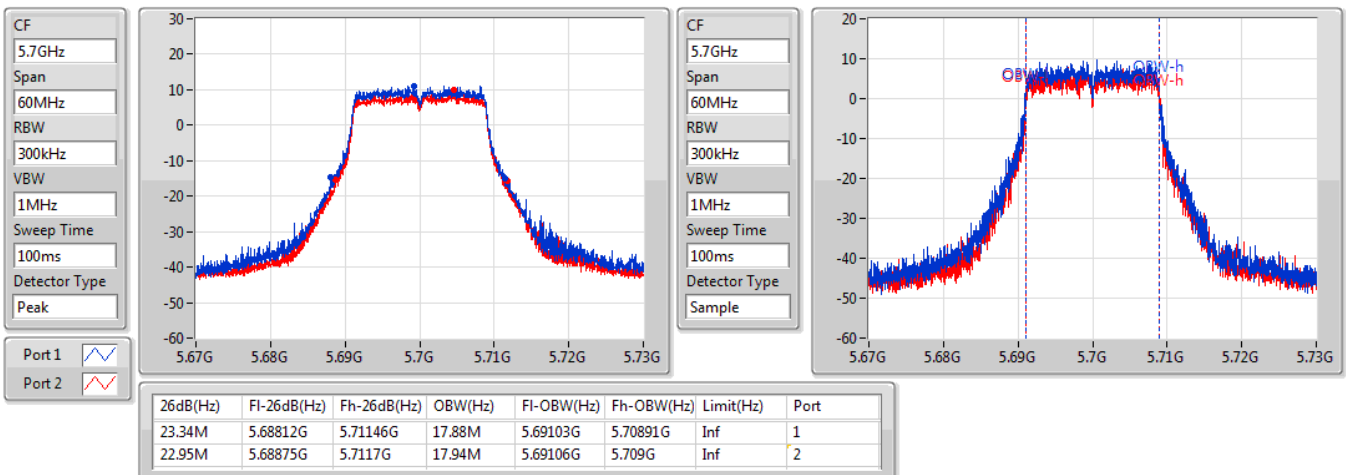


802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5580MHz

29/01/2021

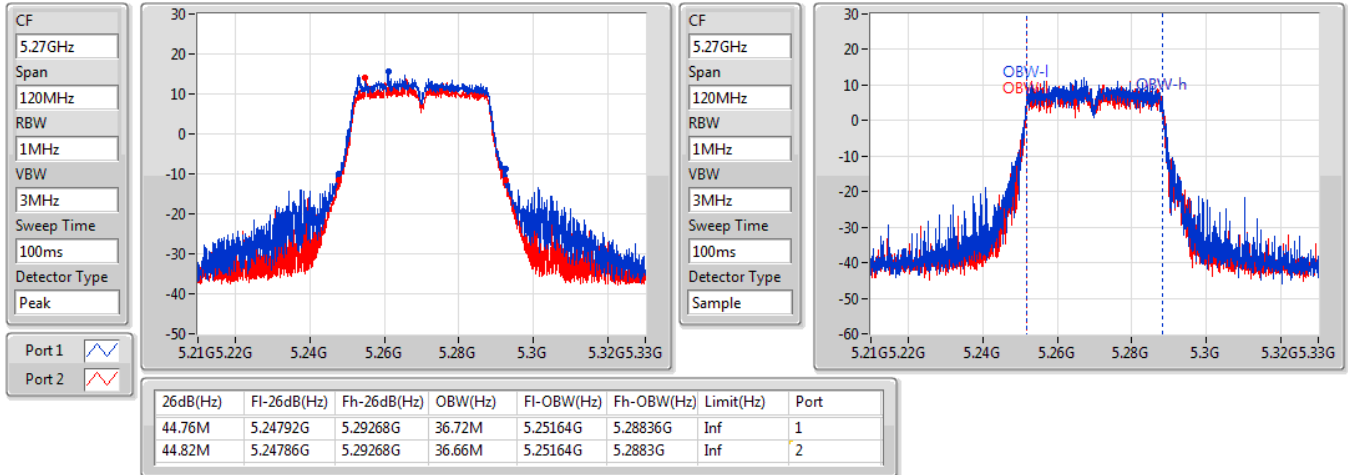

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5700MHz

29/01/2021

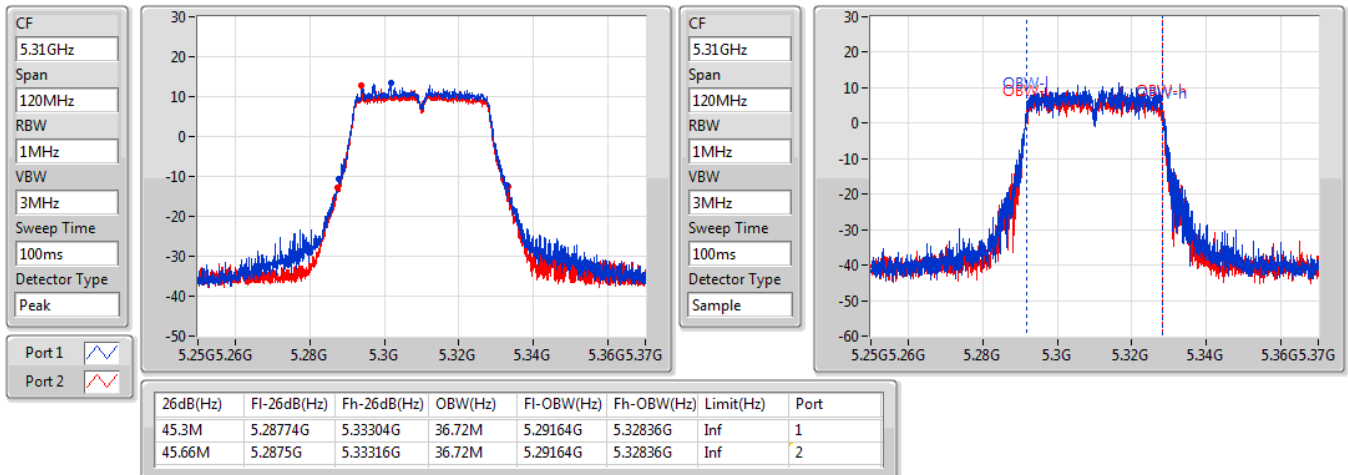


802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5270MHz

29/01/2021

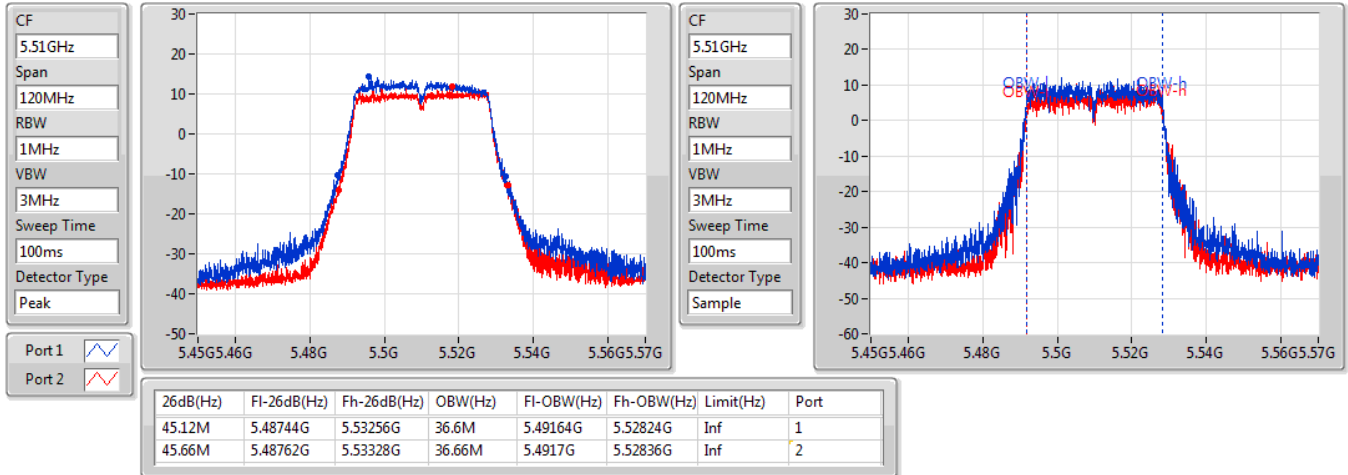

802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5310MHz

29/01/2021

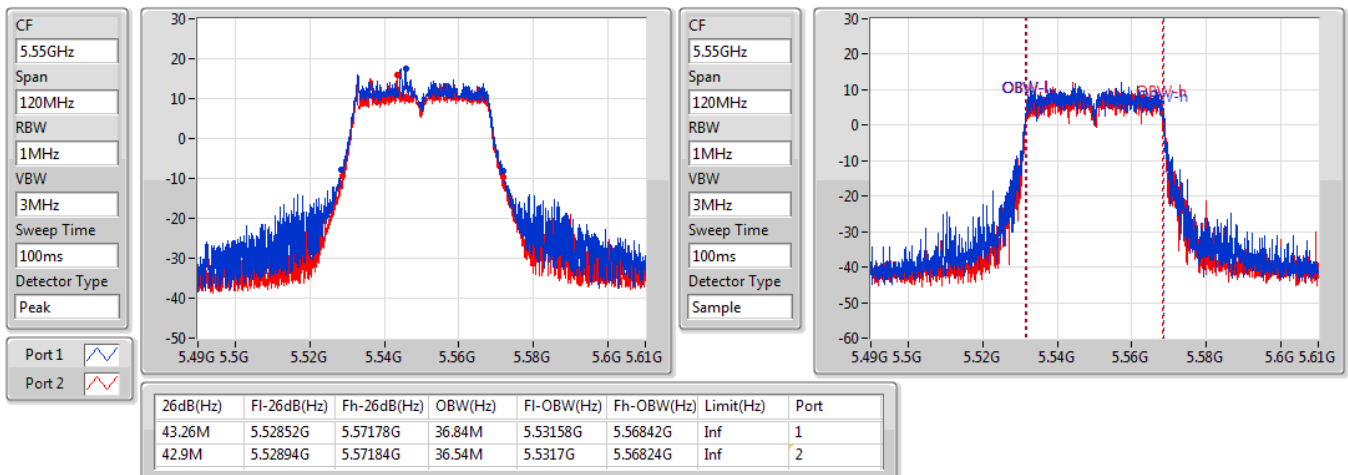


802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5510MHz

29/01/2021

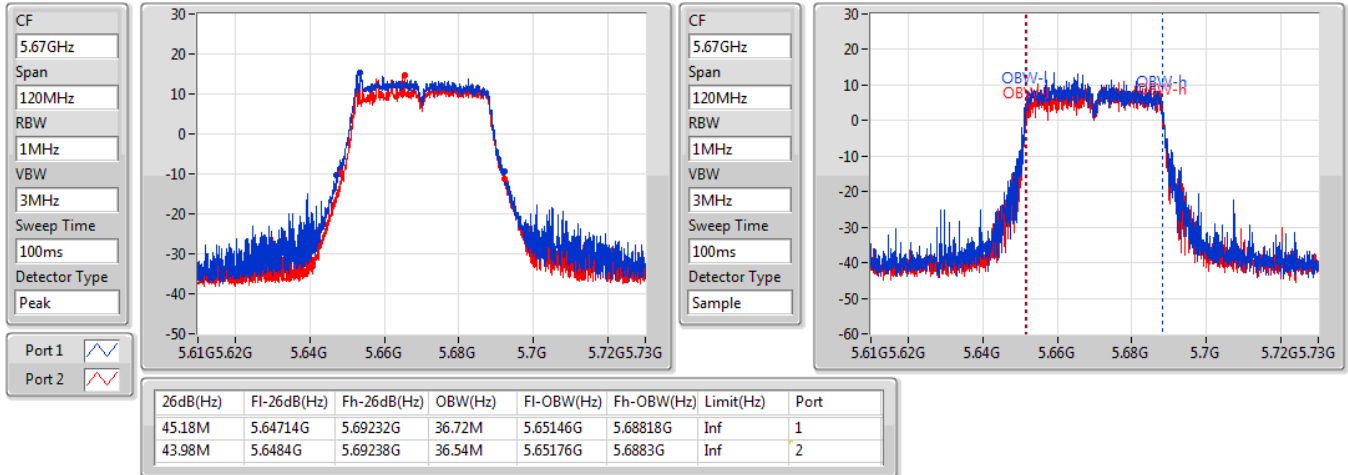

802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5550MHz

29/01/2021

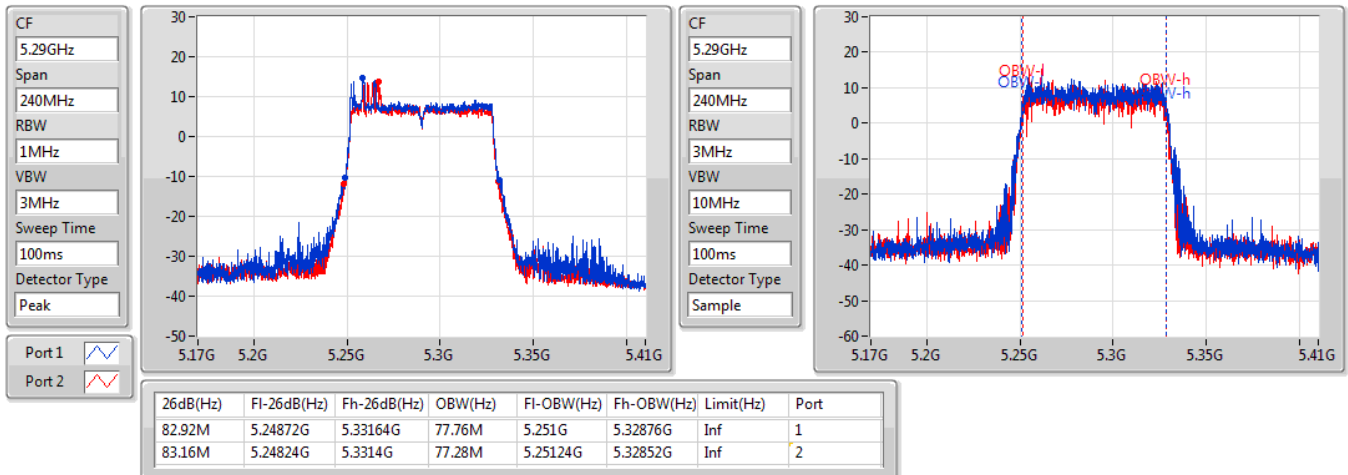


802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5670MHz

29/01/2021

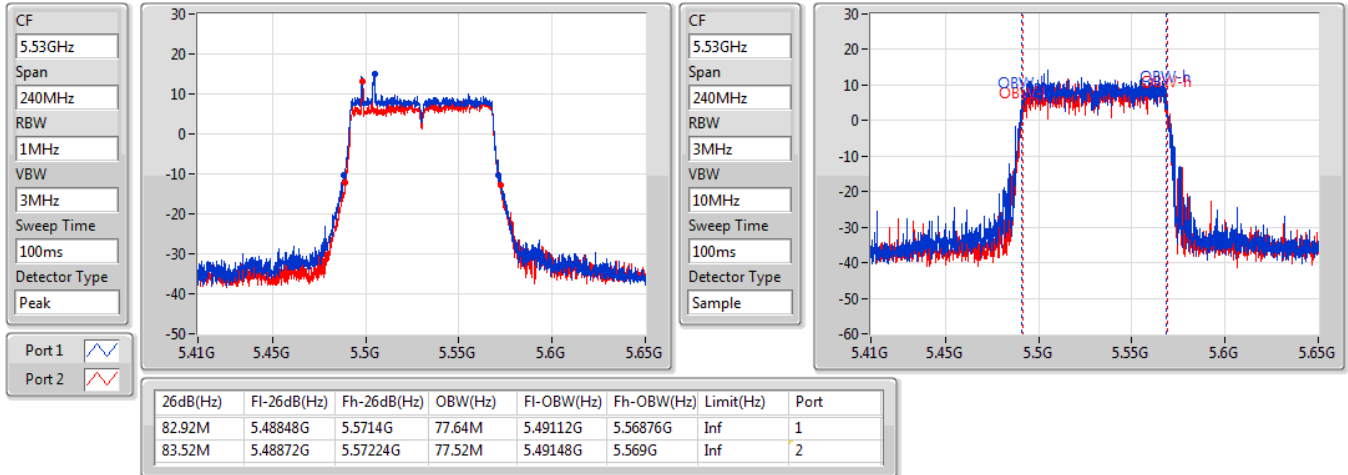

802.11ac VHT80-BF_Nss1,(MCS0)_2TX
EBW
5290MHz

29/01/2021

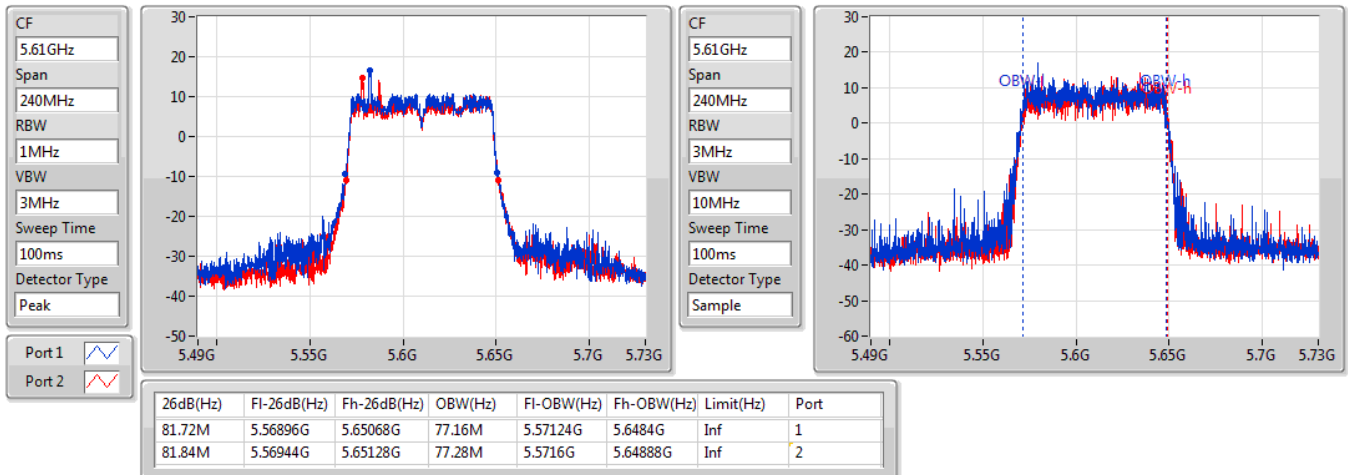


802.11ac VHT80-BF_Nss1,(MCS0)_2TX
EBW
5530MHz

29/01/2021


802.11ac VHT80-BF_Nss1,(MCS0)_2TX
EBW
5610MHz

29/01/2021



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.68	0.11695	26.38	0.43451
802.11ac VHT20_Nss1,(MCS0)_2TX	20.70	0.11749	26.40	0.43652
802.11ac VHT40_Nss1,(MCS0)_2TX	23.48	0.22284	29.18	0.82794
802.11ac VHT80_Nss1,(MCS0)_2TX	19.62	0.09162	25.32	0.34041
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.64	0.11588	26.34	0.43053
802.11ac VHT20_Nss1,(MCS0)_2TX	20.98	0.12531	26.68	0.46559
802.11ac VHT40_Nss1,(MCS0)_2TX	23.70	0.23442	29.40	0.87096
802.11ac VHT80_Nss1,(MCS0)_2TX	22.72	0.18707	28.42	0.69502



Average Power_Non-Beamforming

Appendix B.1

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	5.70	17.55	17.64	20.61	23.98	26.31	30.00
5300MHz	Pass	5.70	17.56	17.78	20.68	23.98	26.38	30.00
5320MHz	Pass	5.70	17.49	17.62	20.57	23.98	26.27	30.00
5500MHz	Pass	5.70	17.70	17.42	20.57	23.98	26.27	30.00
5580MHz	Pass	5.70	17.53	17.61	20.58	23.98	26.28	30.00
5700MHz	Pass	5.70	17.67	17.59	20.64	23.98	26.34	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	5.70	17.48	17.82	20.66	23.98	26.36	30.00
5300MHz	Pass	5.70	17.75	17.63	20.70	23.98	26.40	30.00
5320MHz	Pass	5.70	17.64	17.71	20.69	23.98	26.39	30.00
5500MHz	Pass	5.70	17.71	17.52	20.63	23.98	26.33	30.00
5580MHz	Pass	5.70	17.56	17.77	20.68	23.98	26.38	30.00
5700MHz	Pass	5.70	17.97	17.97	20.98	23.98	26.68	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	5.70	20.45	20.49	23.48	23.98	29.18	30.00
5310MHz	Pass	5.70	17.82	17.57	20.71	23.98	26.41	30.00
5510MHz	Pass	5.70	18.03	18.00	21.03	23.98	26.73	30.00
5550MHz	Pass	5.70	20.81	20.56	23.70	23.98	29.40	30.00
5670MHz	Pass	5.70	19.31	19.33	22.33	23.98	28.03	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	5.70	16.53	16.68	19.62	23.98	25.32	30.00
5530MHz	Pass	5.70	17.73	17.52	20.64	23.98	26.34	30.00
5610MHz	Pass	5.70	19.46	19.95	22.72	23.98	28.42	30.00

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

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	20.72	0.11803	29.43	0.87700
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	20.09	0.10209	28.80	0.75858
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	19.63	0.09183	28.34	0.68234
5.47-5.725GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	20.68	0.11695	29.39	0.86896
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	20.61	0.11508	29.32	0.85507
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	20.18	0.10423	28.89	0.77446



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	8.71	17.08	16.40	19.76	21.27	28.47	30.00
5300MHz	Pass	8.71	17.32	16.59	19.98	21.27	28.69	30.00
5320MHz	Pass	8.71	18.22	17.13	20.72	21.27	29.43	30.00
5500MHz	Pass	8.71	18.62	16.45	20.68	21.27	29.39	30.00
5580MHz	Pass	8.71	17.75	17.01	20.41	21.27	29.12	30.00
5700MHz	Pass	8.71	17.86	16.18	20.11	21.27	28.82	30.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	8.71	17.25	16.90	20.09	21.27	28.80	30.00
5310MHz	Pass	8.71	16.51	15.64	19.11	21.27	27.82	30.00
5510MHz	Pass	8.71	17.42	14.83	19.33	21.27	28.04	30.00
5550MHz	Pass	8.71	18.21	16.90	20.61	21.27	29.32	30.00
5670MHz	Pass	8.71	17.06	16.25	19.68	21.27	28.39	30.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	8.71	16.85	16.38	19.63	21.27	28.34	30.00
5530MHz	Pass	8.71	17.44	15.95	19.77	21.27	28.48	30.00
5610MHz	Pass	8.71	17.69	16.57	20.18	21.27	28.89	30.00

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	8.18	16.89
802.11ac VHT20_Nss1,(MCS0)_2TX	8.09	16.80
802.11ac VHT40_Nss1,(MCS0)_2TX	7.76	16.47
802.11ac VHT80_Nss1,(MCS0)_2TX	0.57	9.28
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.06	16.77
802.11ac VHT20_Nss1,(MCS0)_2TX	8.17	16.88
802.11ac VHT40_Nss1,(MCS0)_2TX	7.67	16.38
802.11ac VHT80_Nss1,(MCS0)_2TX	3.82	12.53

RBW = 500kHz 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	8.71	5.14	5.26	8.17	8.29	16.88	17.00
5300MHz	Pass	8.71	5.16	5.18	8.18	8.29	16.89	17.00
5320MHz	Pass	8.71	5.18	5.09	8.11	8.29	16.82	17.00
5500MHz	Pass	8.71	5.18	4.88	7.88	8.29	16.59	17.00
5580MHz	Pass	8.71	5.11	5.26	8.02	8.29	16.73	17.00
5700MHz	Pass	8.71	5.14	5.08	8.06	8.29	16.77	17.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	8.71	5.02	5.26	8.09	8.29	16.80	17.00
5300MHz	Pass	8.71	4.89	5.22	8.06	8.29	16.77	17.00
5320MHz	Pass	8.71	4.95	5.16	8.02	8.29	16.73	17.00
5500MHz	Pass	8.71	4.75	4.69	7.67	8.29	16.38	17.00
5580MHz	Pass	8.71	4.60	5.00	7.75	8.29	16.46	17.00
5700MHz	Pass	8.71	5.22	5.20	8.17	8.29	16.88	17.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	8.71	4.84	4.70	7.76	8.29	16.47	17.00
5310MHz	Pass	8.71	2.24	2.17	5.13	8.29	13.84	17.00
5510MHz	Pass	8.71	2.23	2.29	5.09	8.29	13.80	17.00
5550MHz	Pass	8.71	4.76	4.79	7.67	8.29	16.38	17.00
5670MHz	Pass	8.71	3.49	3.56	6.54	8.29	15.25	17.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	8.71	-2.45	-2.27	0.57	8.29	9.28	17.00
5530MHz	Pass	8.71	-1.29	-1.19	1.46	8.29	10.17	17.00
5610MHz	Pass	8.71	0.50	1.37	3.82	8.29	12.53	17.00

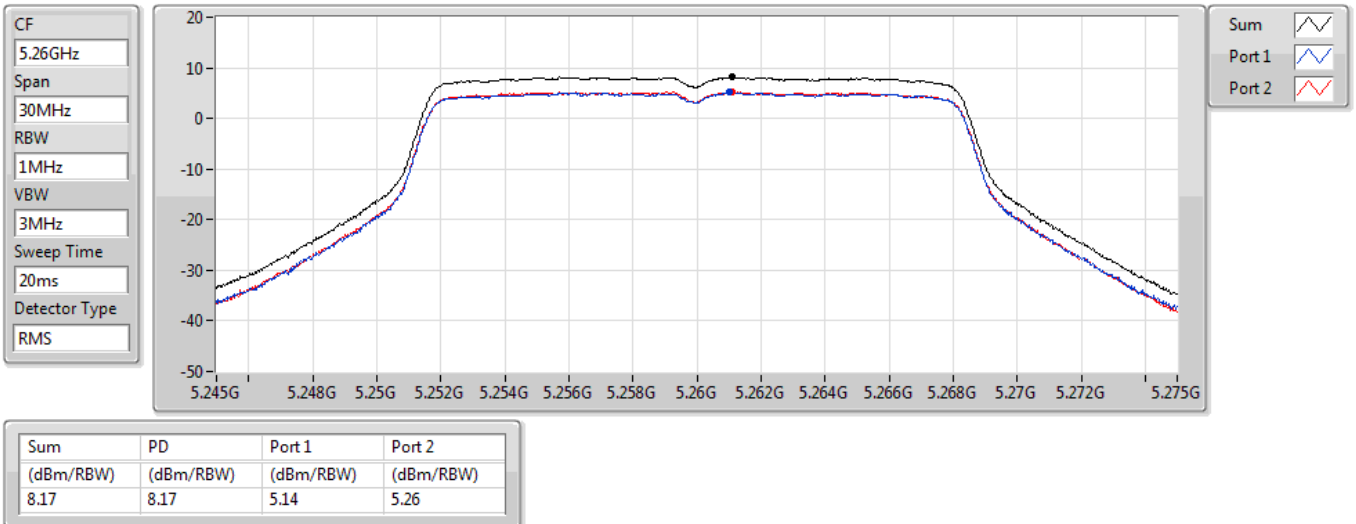
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz

22/01/2021

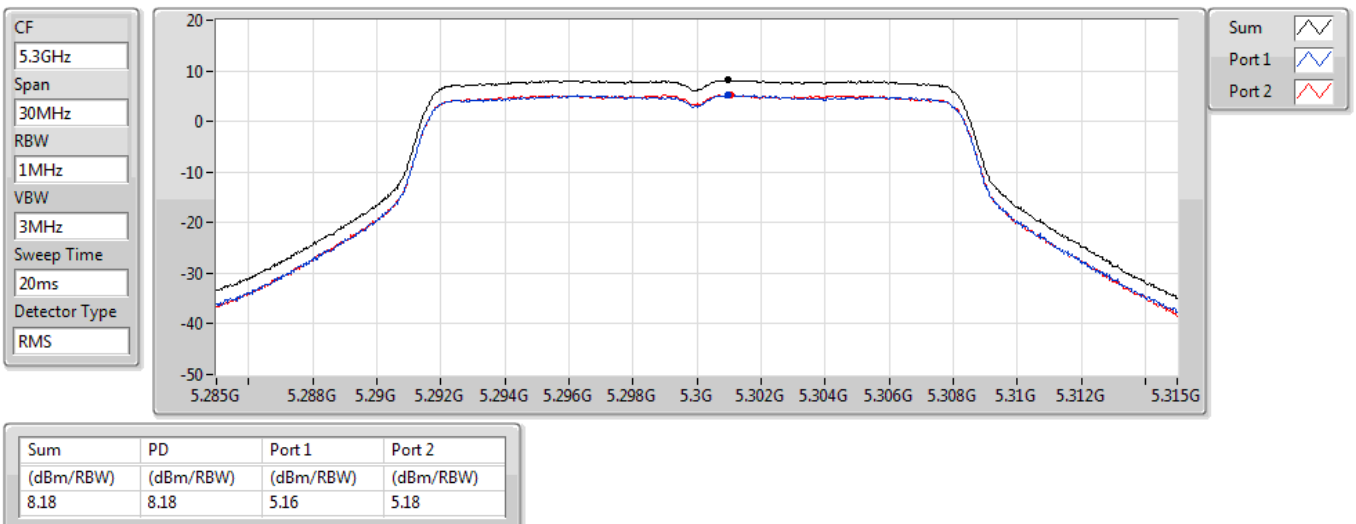


802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

22/01/2021

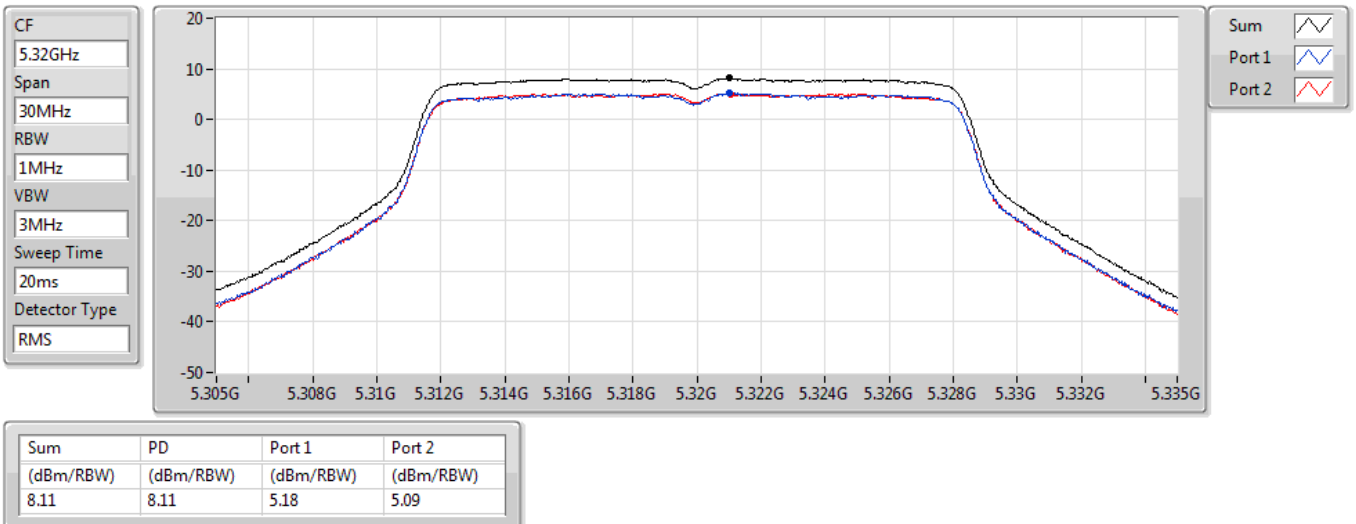


802.11a_Nss1,(6Mbps)_2TX

PSD

5320MHz

22/01/2021

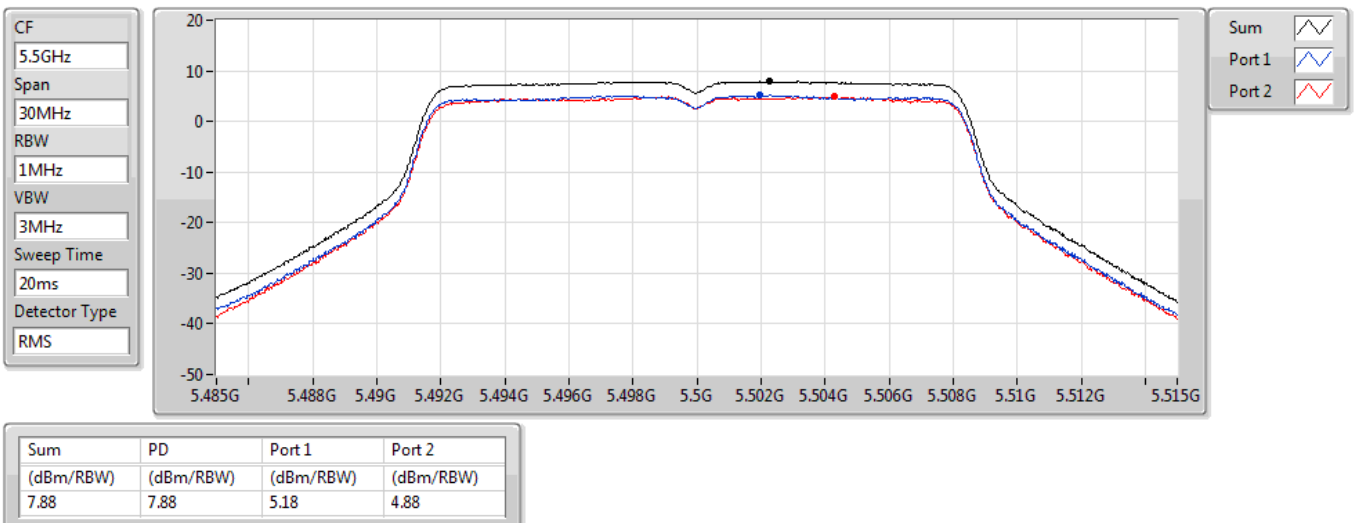


802.11a_Nss1,(6Mbps)_2TX

PSD

5500MHz

22/01/2021

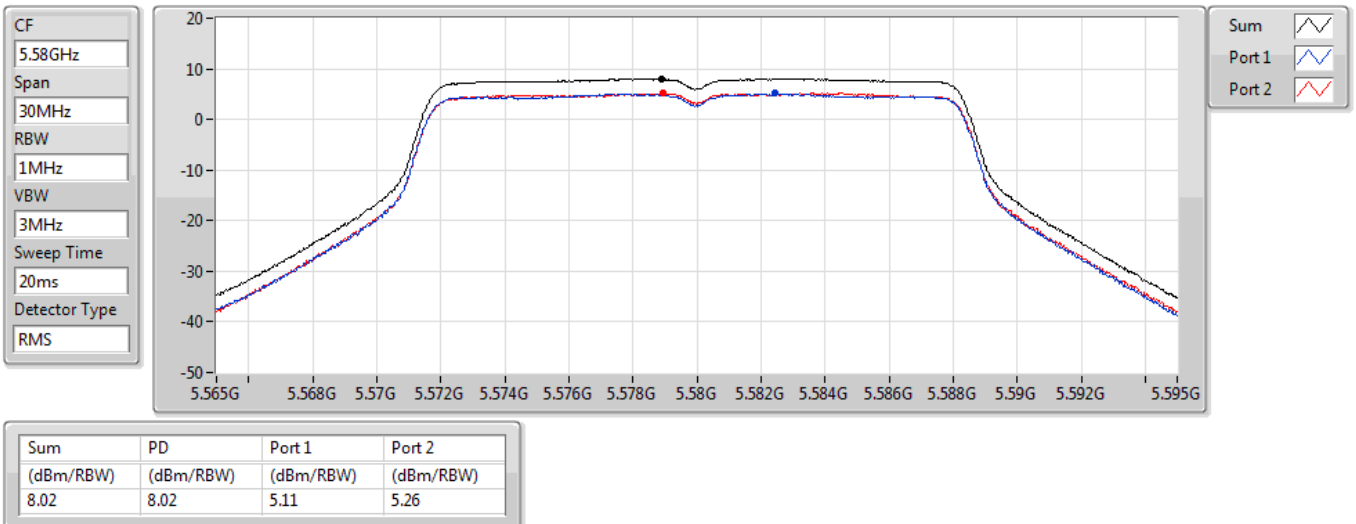


802.11a_Nss1,(6Mbps)_2TX

PSD

5580MHz

22/01/2021

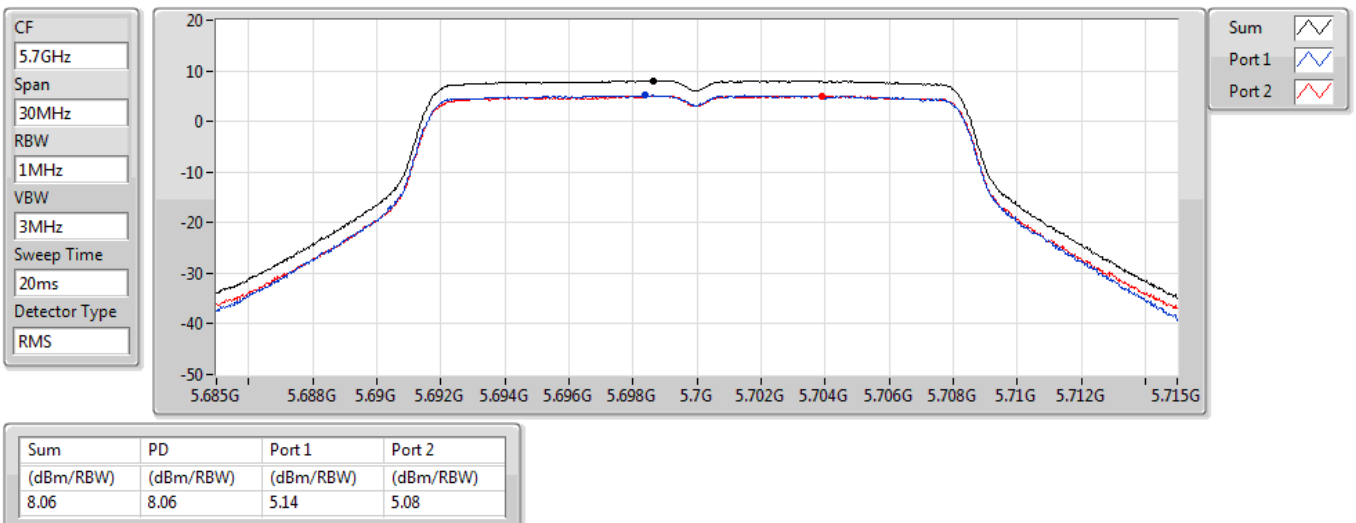


802.11a_Nss1,(6Mbps)_2TX

PSD

5700MHz

22/01/2021

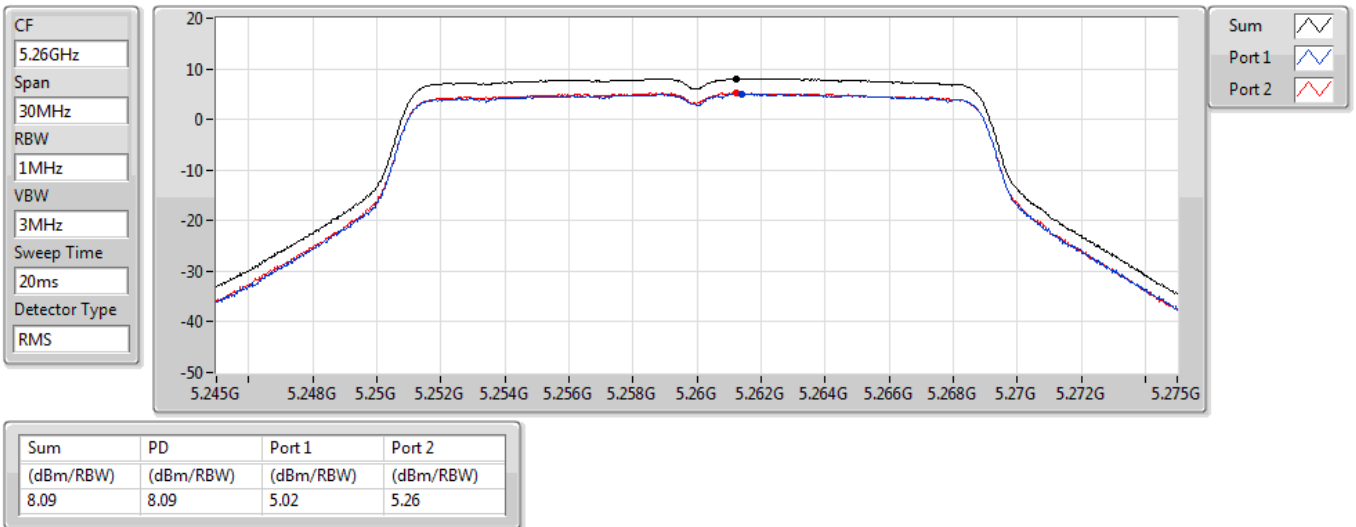


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5260MHz

22/01/2021

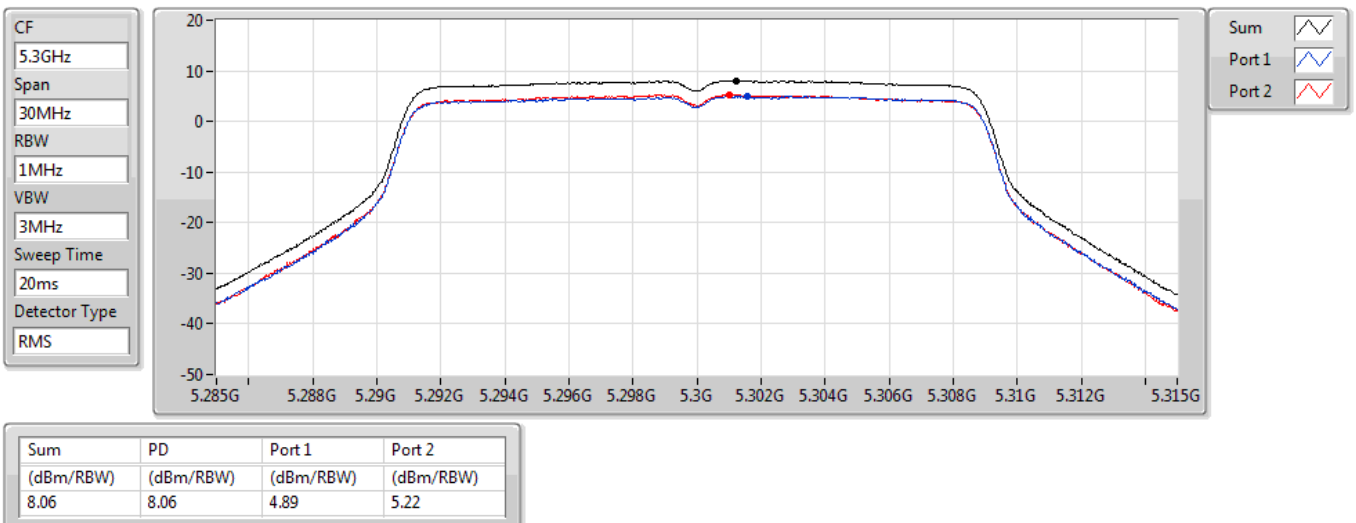


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5300MHz

22/01/2021

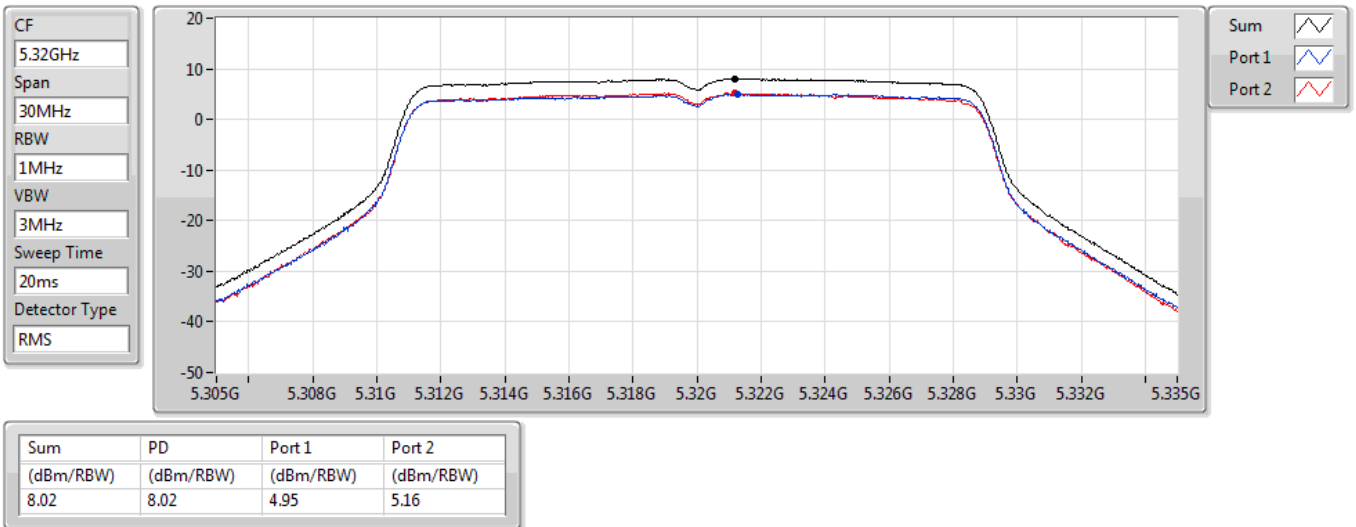


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5320MHz

22/01/2021

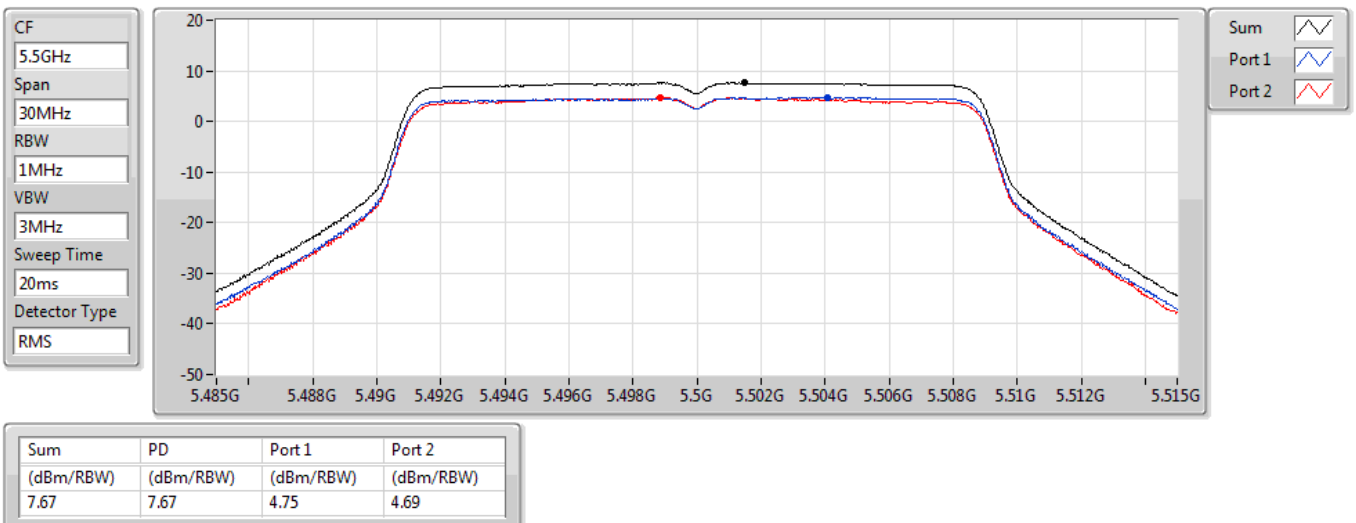


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5500MHz

22/01/2021

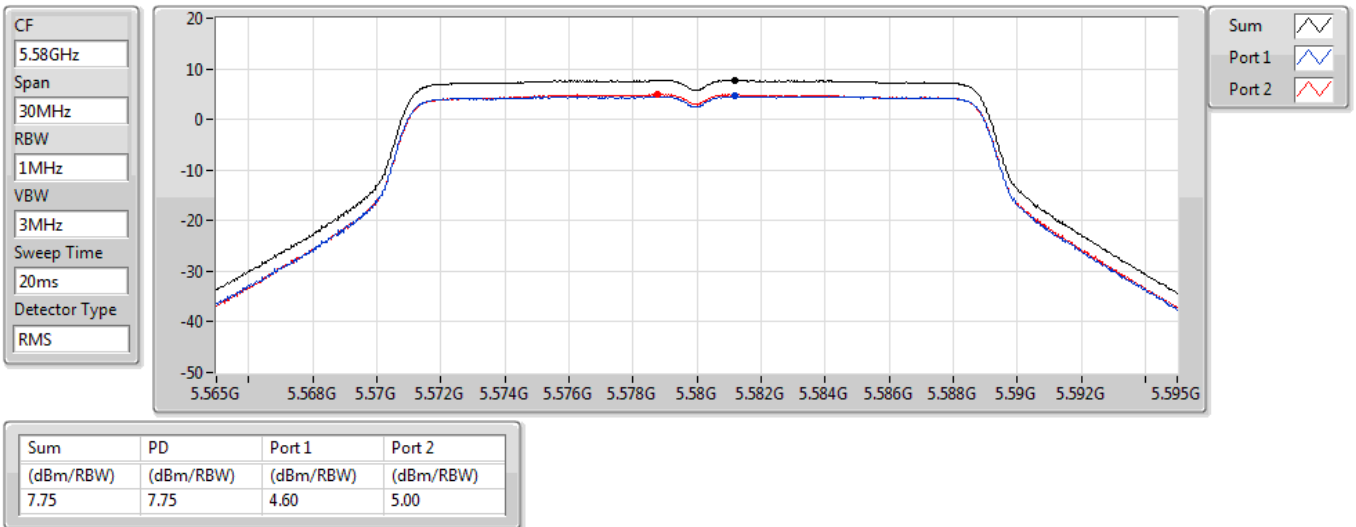


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5580MHz

22/01/2021

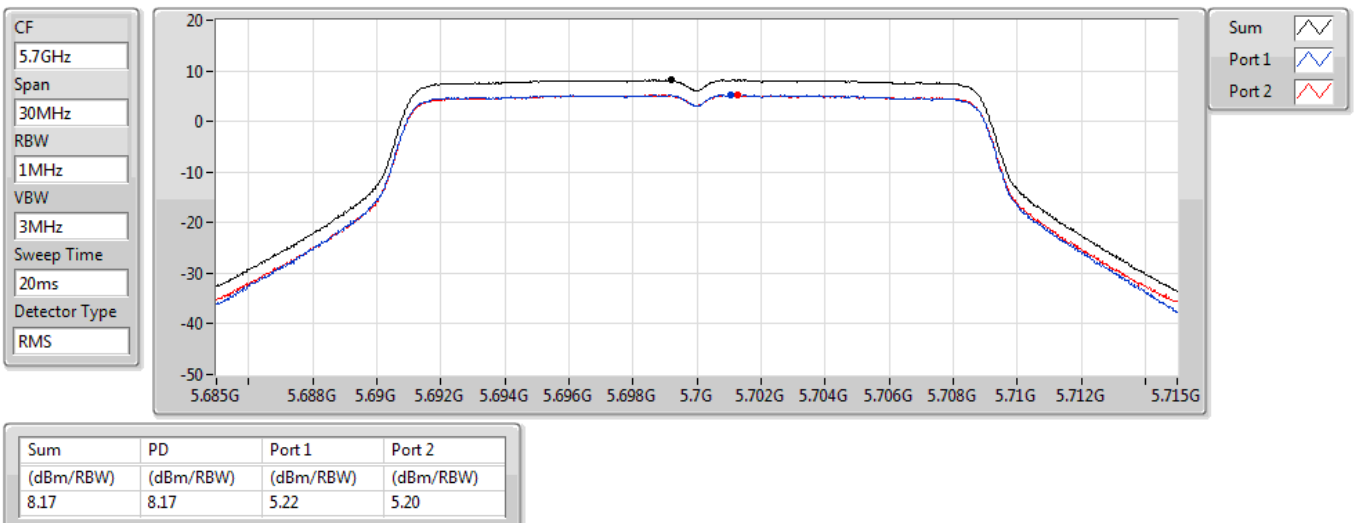


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5700MHz

22/01/2021

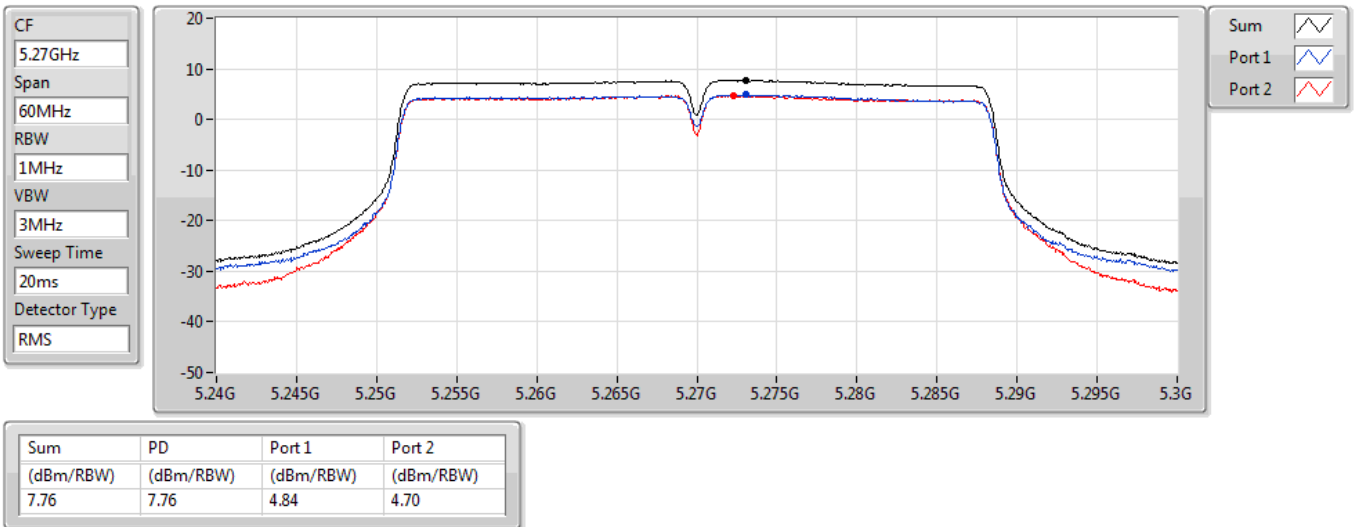


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5270MHz

22/01/2021

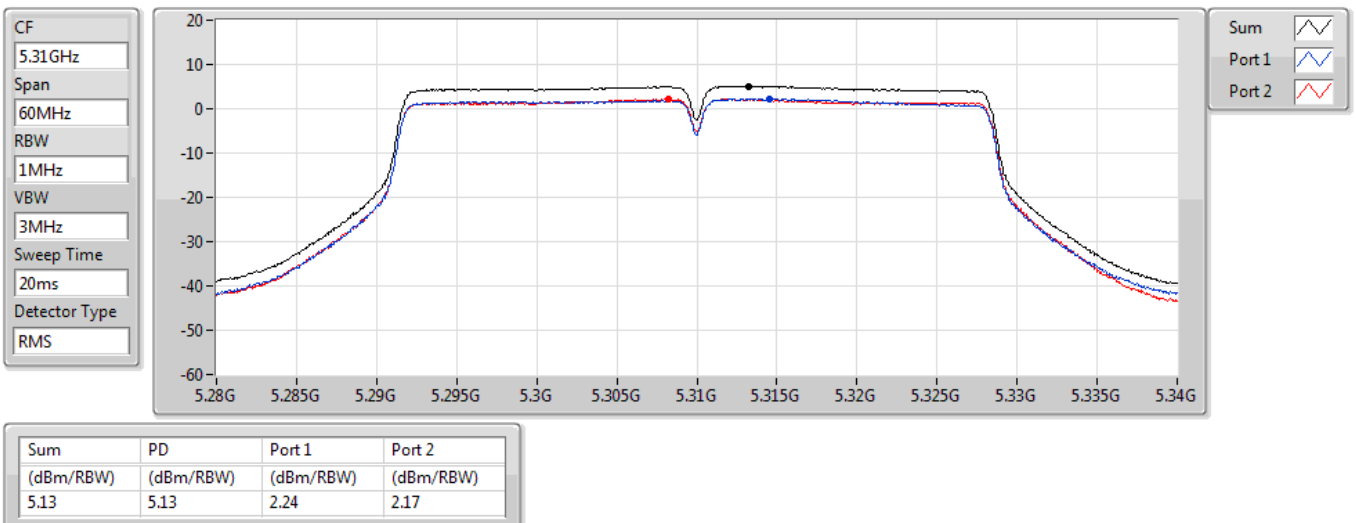


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5310MHz

22/01/2021

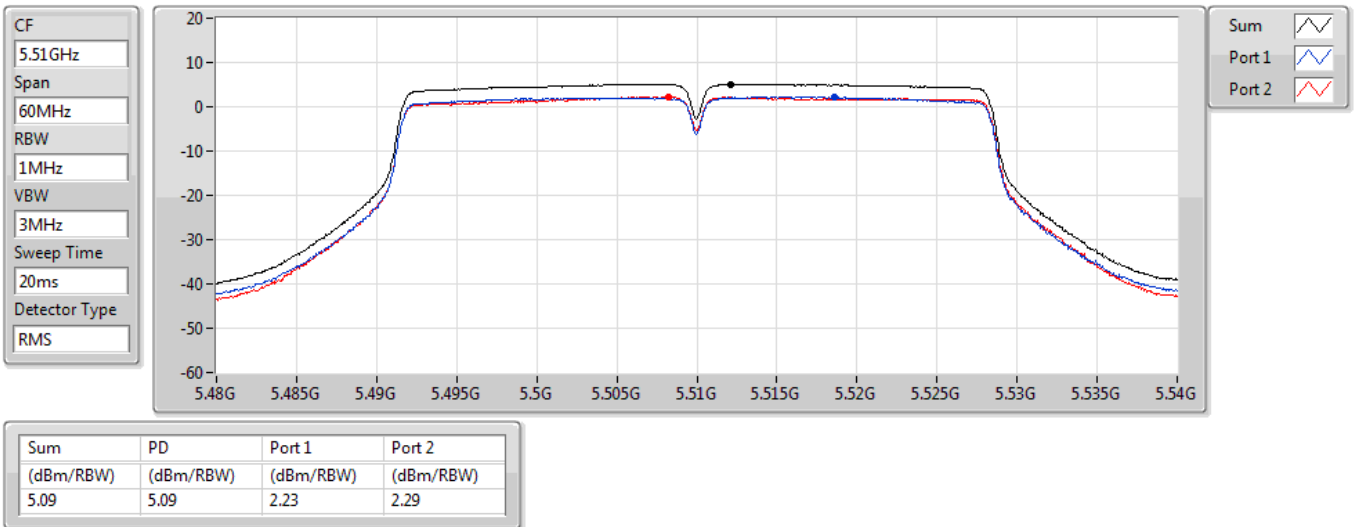


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5510MHz

22/01/2021

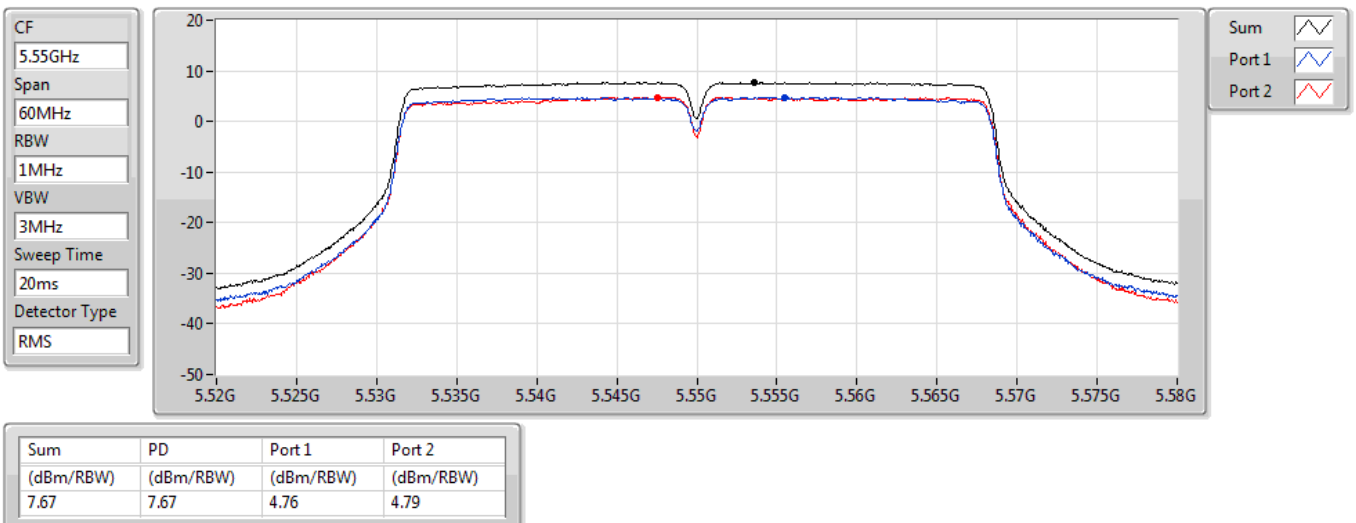


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5550MHz

22/01/2021

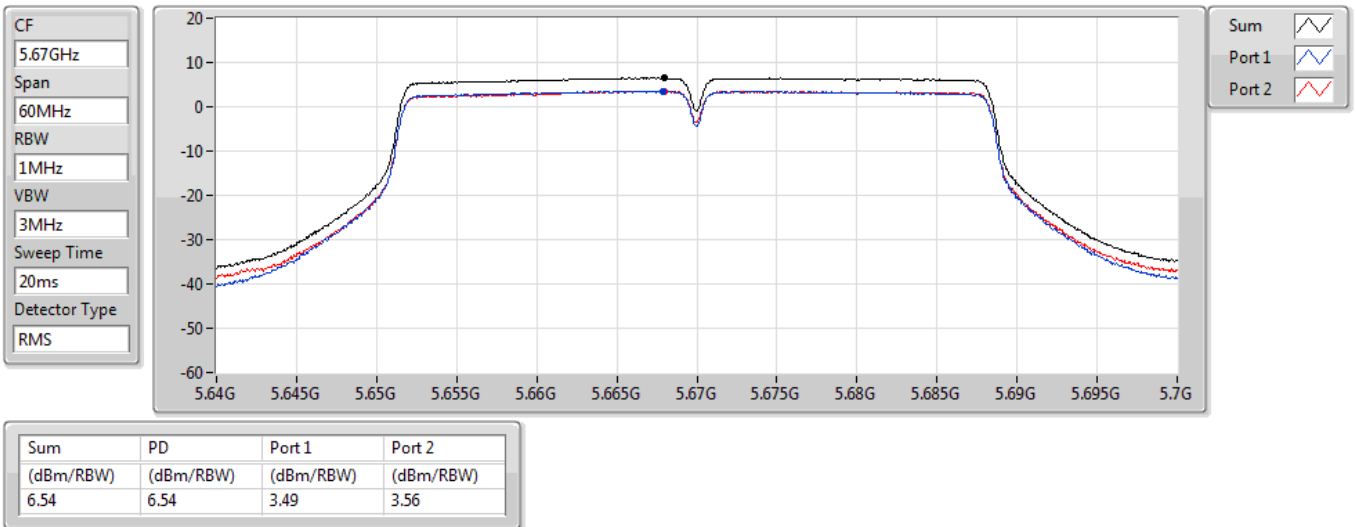


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5670MHz

22/01/2021

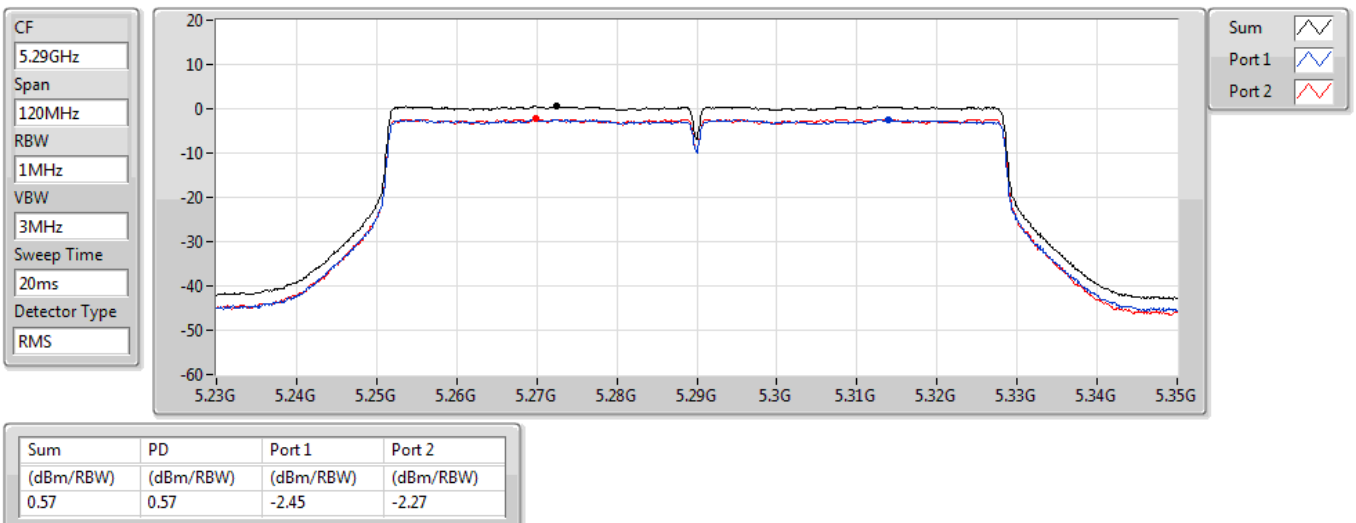


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5290MHz

22/01/2021

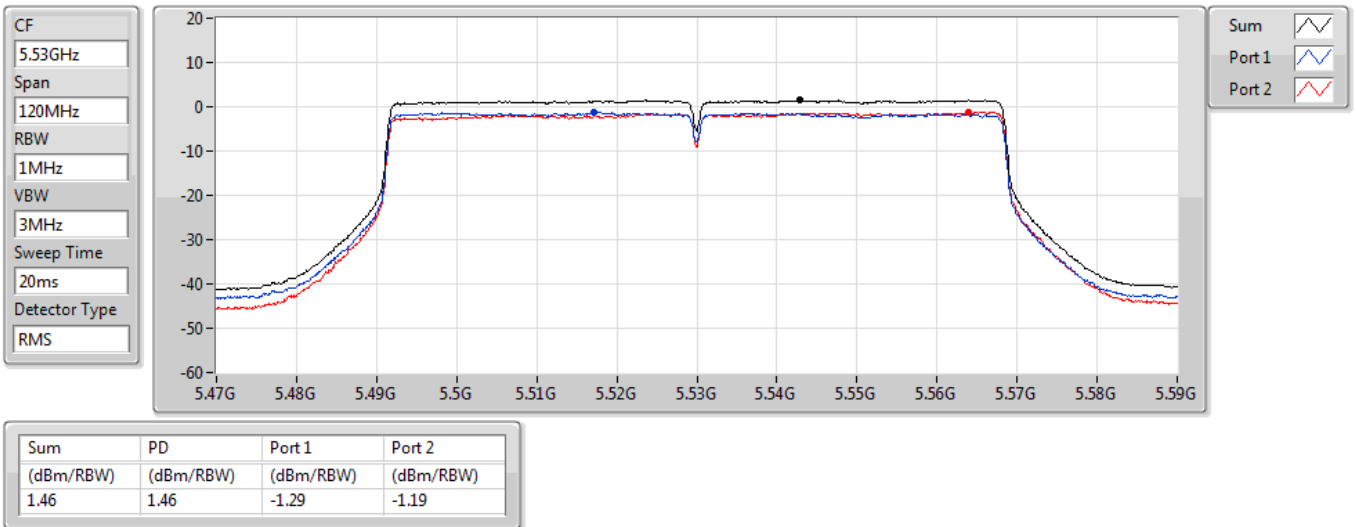


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5530MHz

22/01/2021

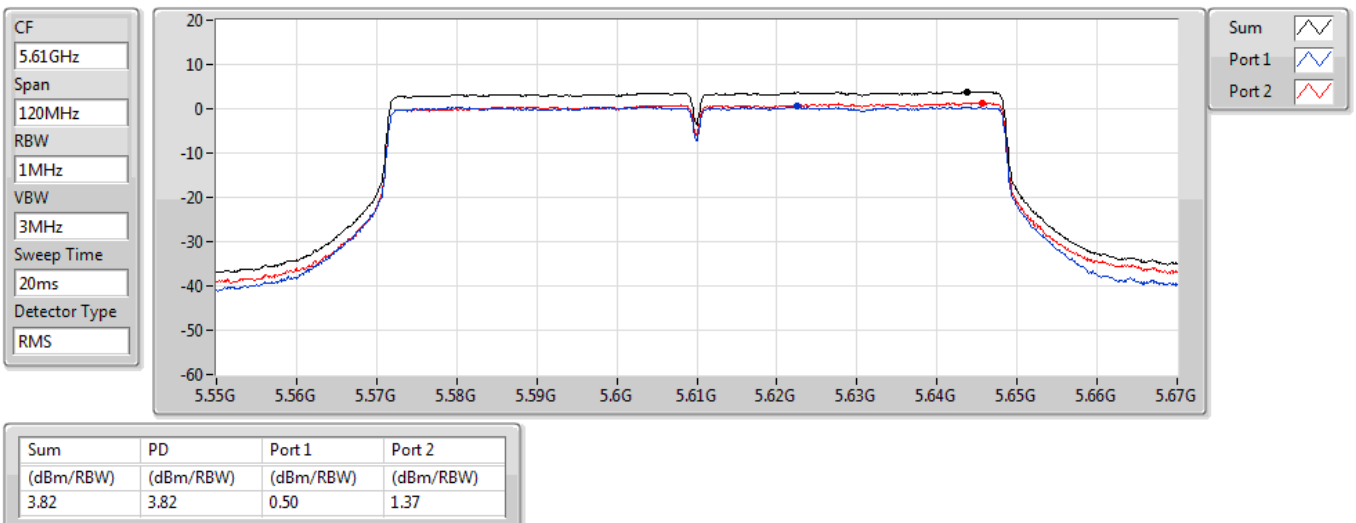


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5610MHz

22/01/2021



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	6.89	15.60
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	3.40	12.11
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-0.98	7.73
5.47-5.725GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	7.53	16.24
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	3.19	11.90
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-0.83	7.88

RBW = 500kHz 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)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	8.71	3.74	2.91	6.27	8.29	14.98	17.00
5300MHz	Pass	8.71	3.69	2.93	6.31	8.29	15.02	17.00
5320MHz	Pass	8.71	4.43	3.60	6.89	8.29	15.60	17.00
5500MHz	Pass	8.71	5.18	3.82	7.53	8.29	16.24	17.00
5580MHz	Pass	8.71	4.49	3.25	6.88	8.29	15.59	17.00
5700MHz	Pass	8.71	4.51	2.84	6.65	8.29	15.36	17.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	8.71	0.95	-0.17	3.40	8.29	12.11	17.00
5310MHz	Pass	8.71	0.06	-0.77	2.58	8.29	11.29	17.00
5510MHz	Pass	8.71	1.42	-0.88	3.19	8.29	11.90	17.00
5550MHz	Pass	8.71	0.56	-0.50	2.92	8.29	11.63	17.00
5670MHz	Pass	8.71	1.31	-0.38	3.19	8.29	11.90	17.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	8.71	-3.26	-4.34	-0.98	8.29	7.73	17.00
5530MHz	Pass	8.71	-3.04	-4.05	-0.83	8.29	7.88	17.00
5610MHz	Pass	8.71	-3.20	-3.82	-1.15	8.29	7.56	17.00

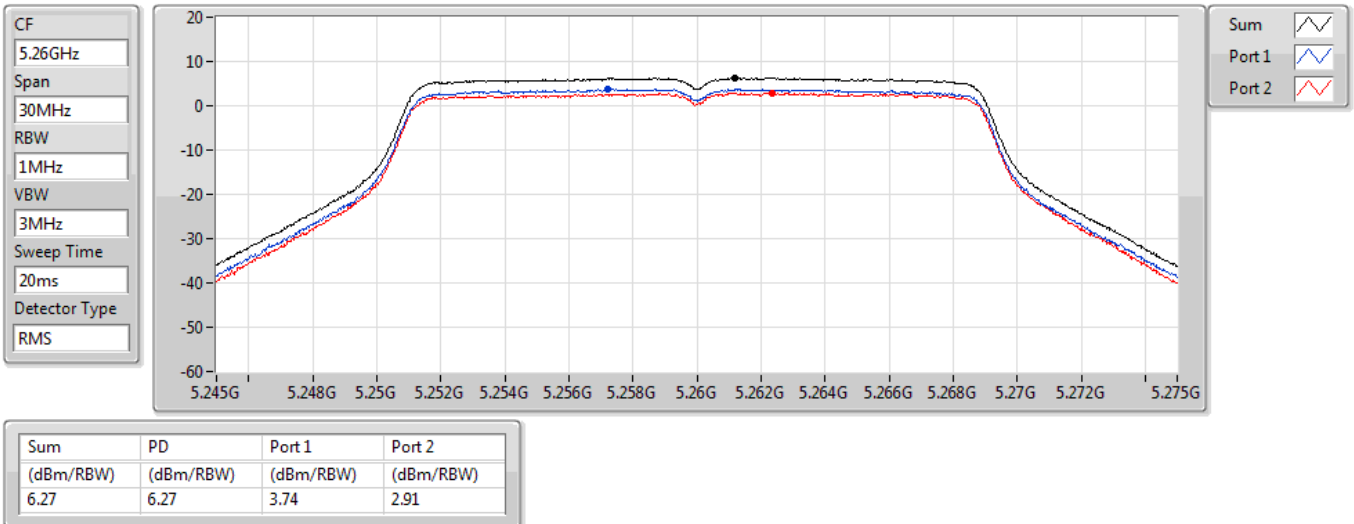
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5260MHz

29/01/2021

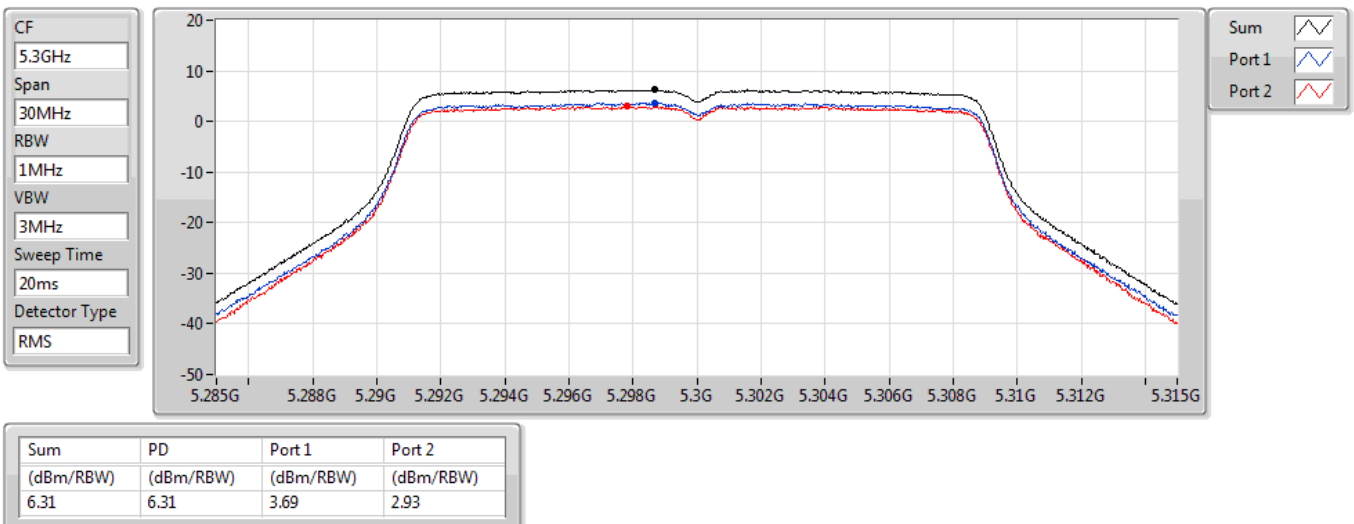


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5300MHz

29/01/2021

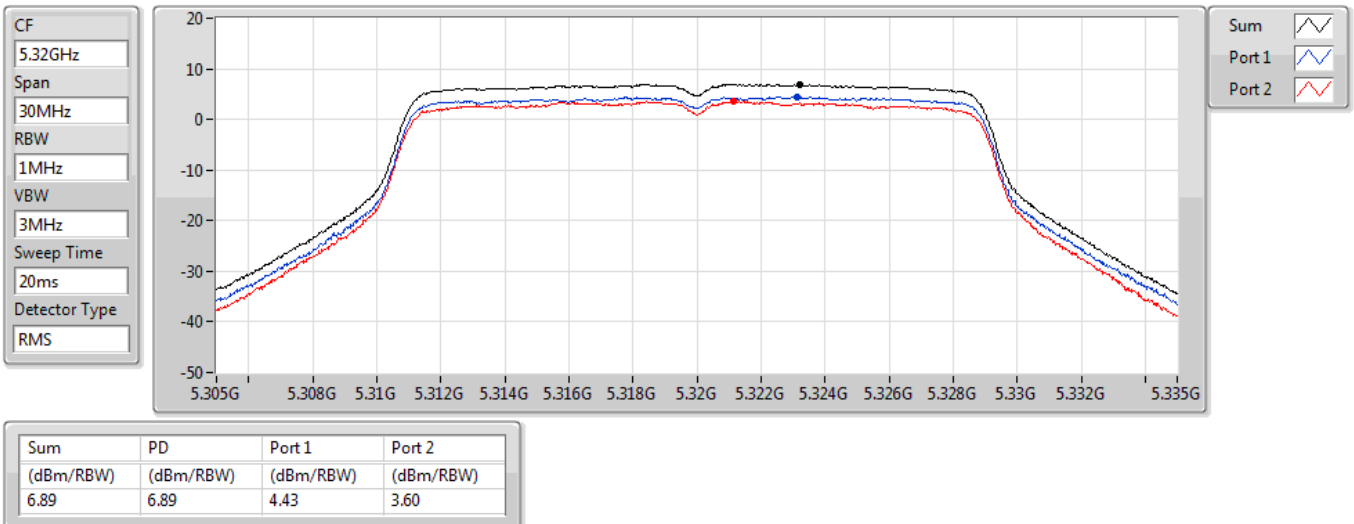


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5320MHz

10/02/2021

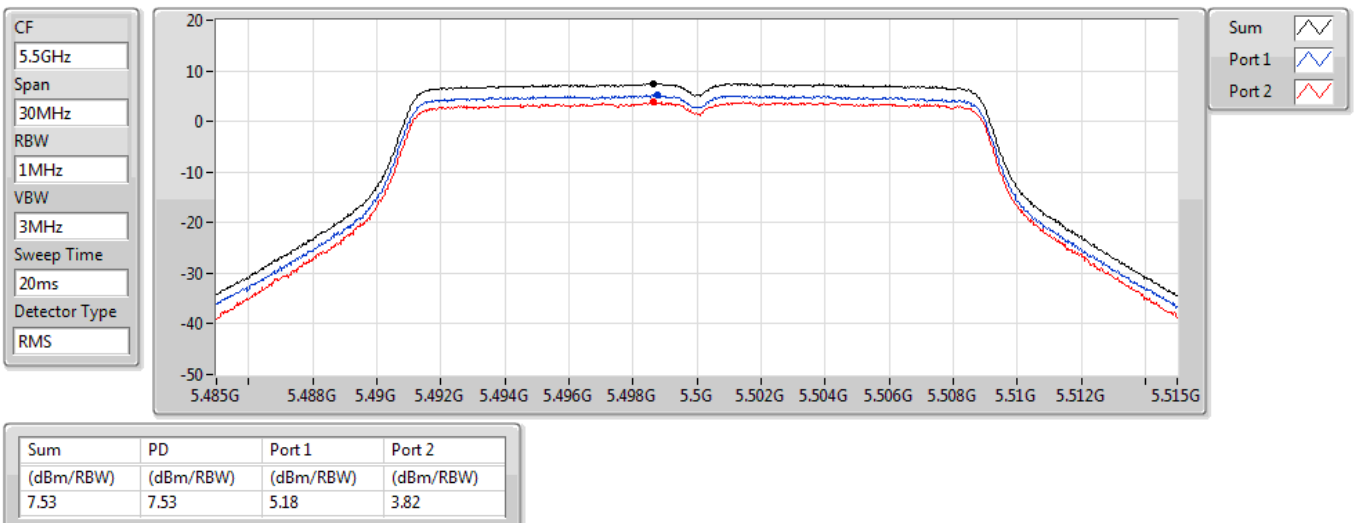


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5500MHz

29/01/2021

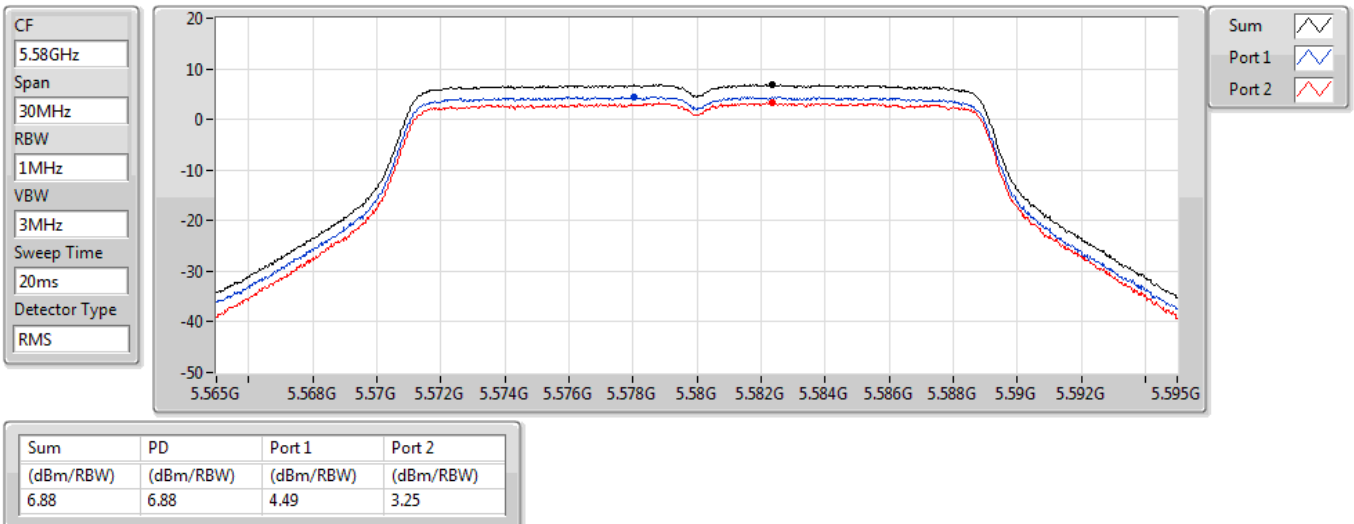


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5580MHz

29/01/2021

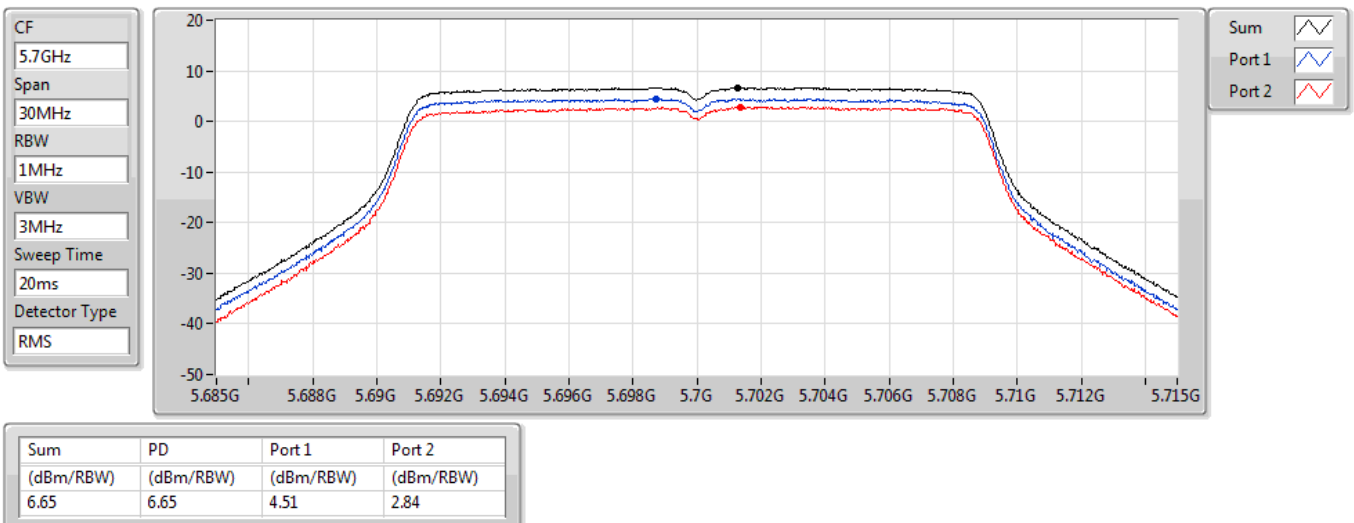


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5700MHz

29/01/2021

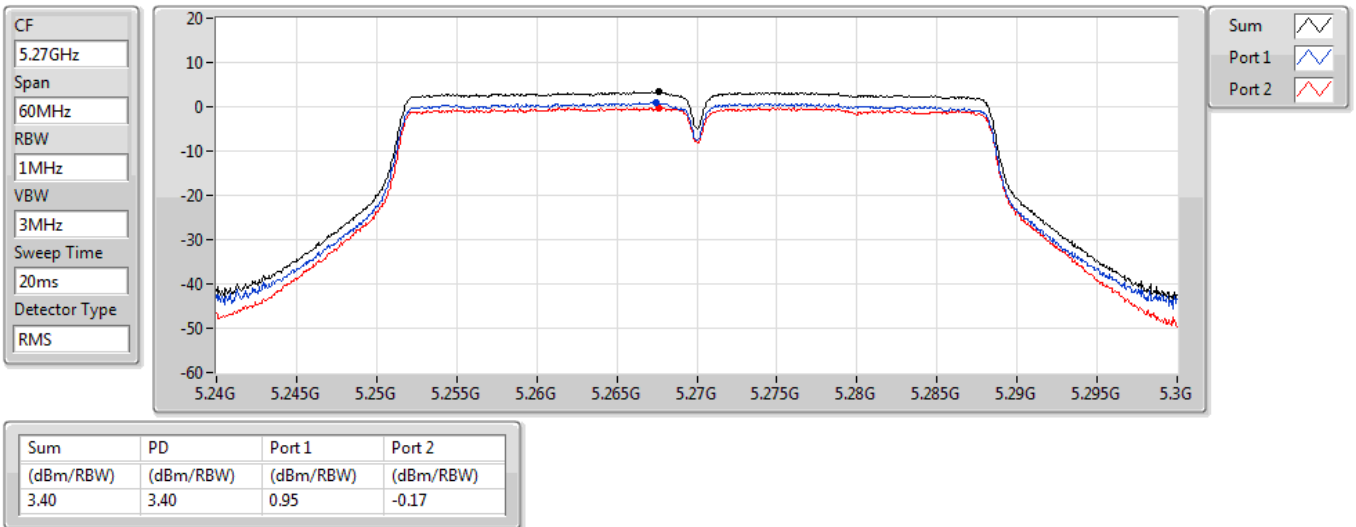


802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5270MHz

29/01/2021

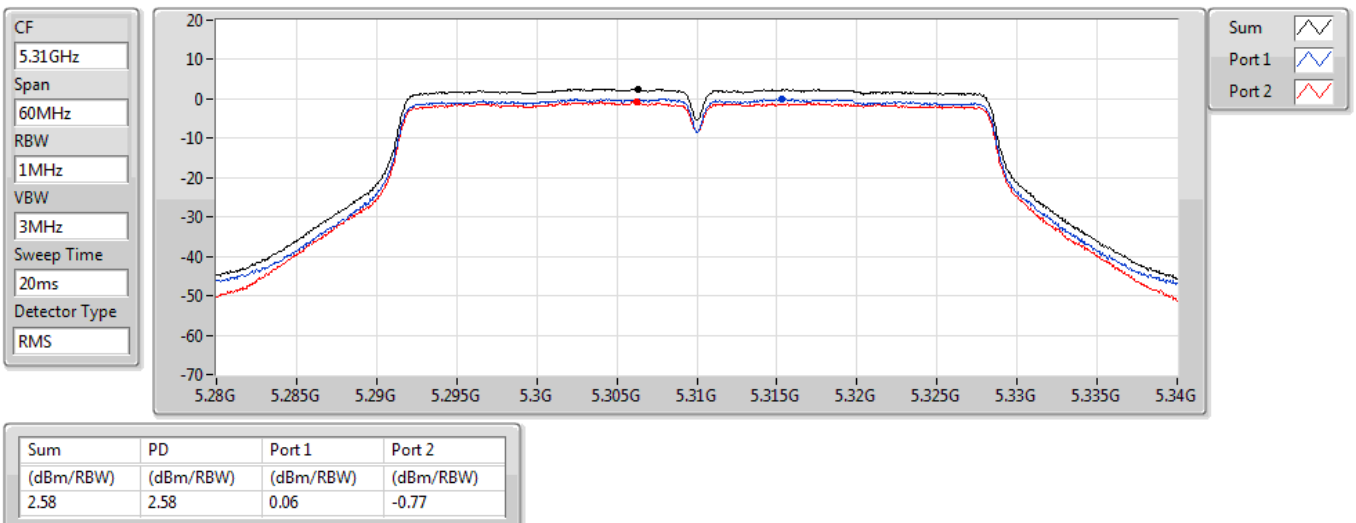


802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5310MHz

29/01/2021

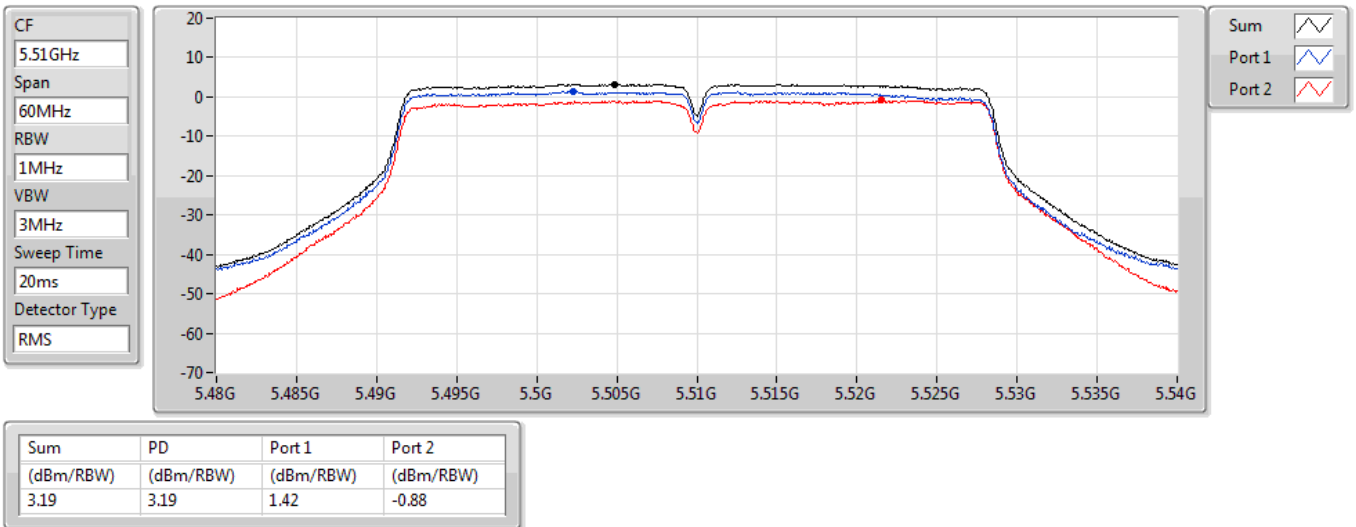


802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5510MHz

29/01/2021

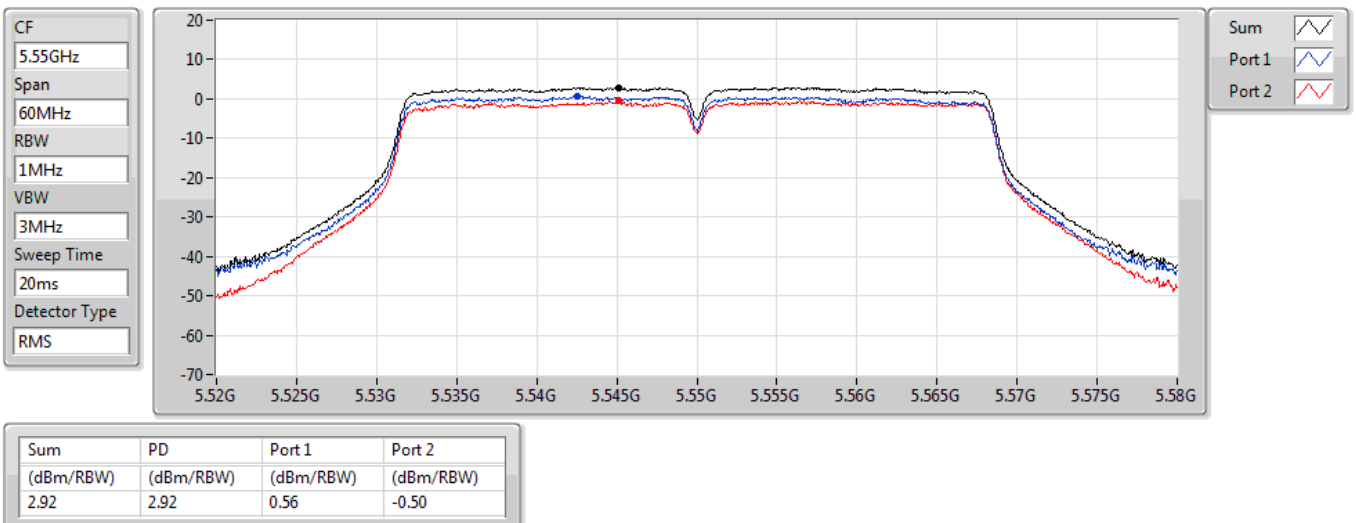


802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5550MHz

29/01/2021

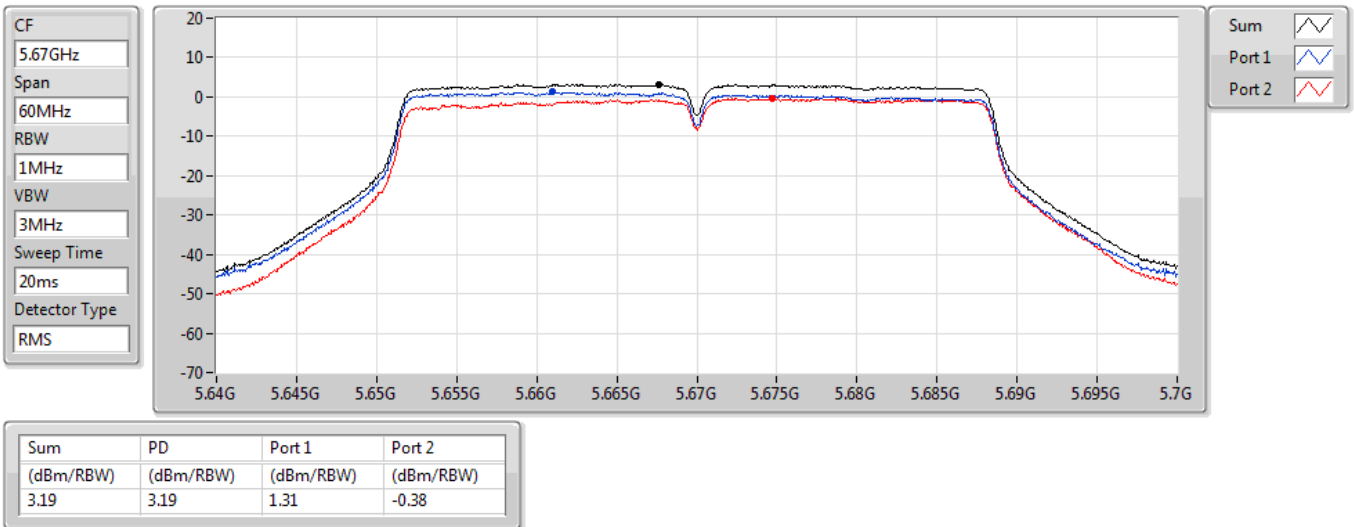


802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5670MHz

29/01/2021

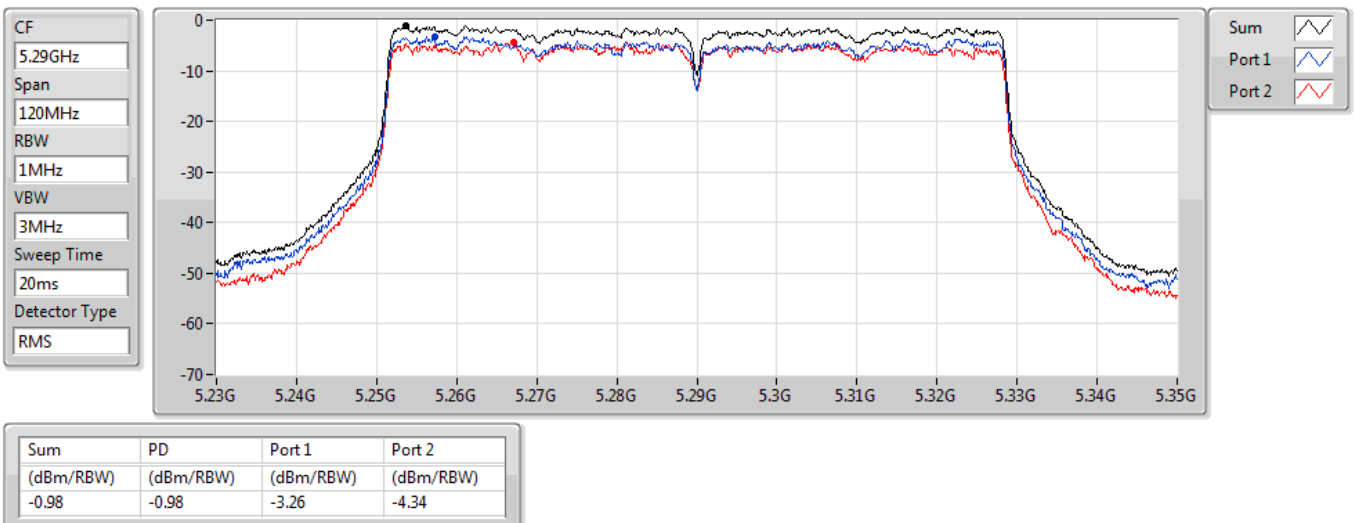


802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

5290MHz

29/01/2021

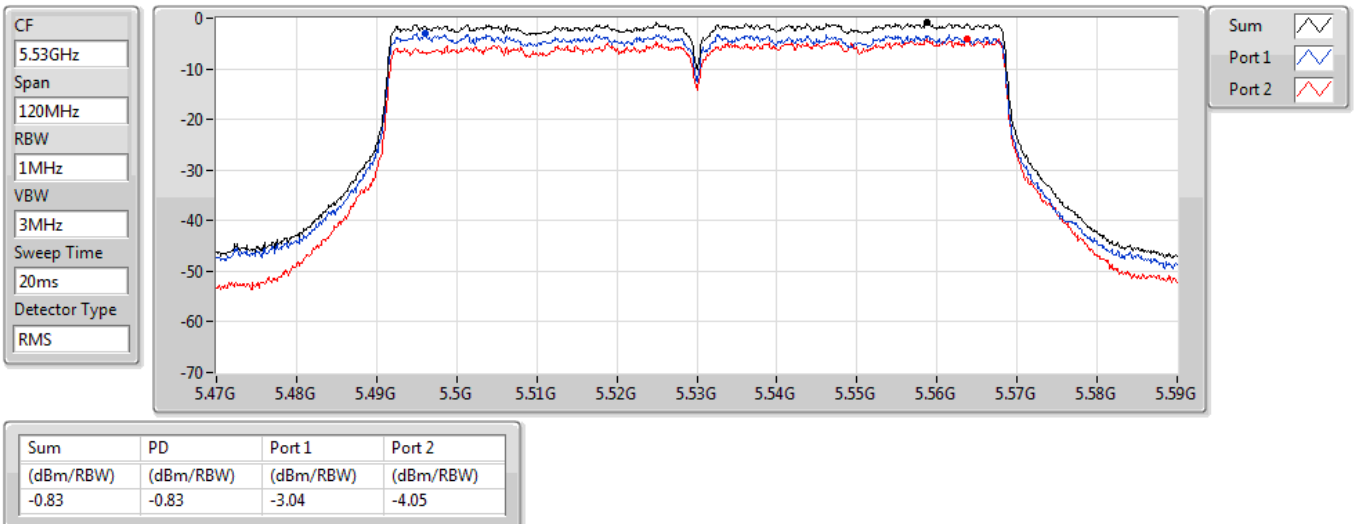


802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

5530MHz

29/01/2021

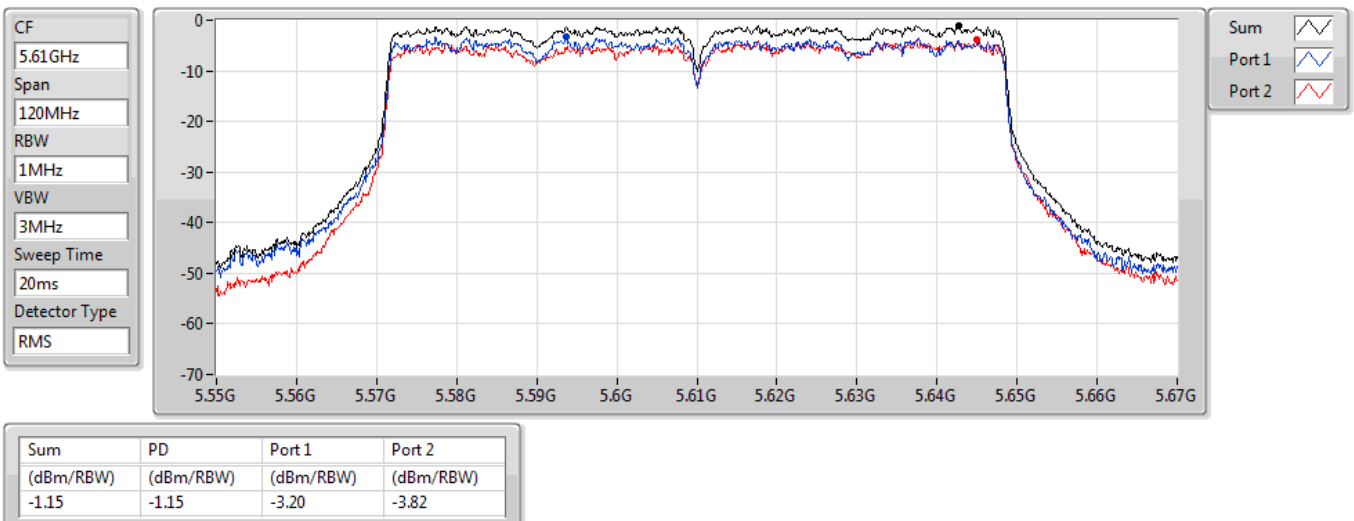


802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

5610MHz

29/01/2021



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	15.78132G	53.17	54.00	-0.83	3	Horizontal	356	2.70	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	PK	5.3508G	73.31	74.00	-0.69	3	Vertical	33	1.38	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	5.3508G	53.25	54.00	-0.75	3	Horizontal	12	2.15	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.353G	53.74	54.00	-0.26	3	Horizontal	19	2.06	-
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	17.15538G	67.98	68.20	-0.22	3	Horizontal	356	2.97	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	PK	17.15919G	67.99	68.20	-0.21	3	Horizontal	342	2.97	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	PK	5.7294G	67.98	68.20	-0.22	3	Horizontal	59	1.81	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.46G	53.81	54.00	-0.19	3	Vertical	342	1.39	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1_(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.1358G	48.03	54.00	-5.97	3	Vertical	32	1.09	-
5260MHz	Pass	AV	5.2618G	112.68	Inf	-Inf	3	Vertical	32	1.09	-
5260MHz	Pass	AV	5.35G	46.40	54.00	-7.60	3	Vertical	32	1.09	-
5260MHz	Pass	PK	5.1244G	61.56	74.00	-12.44	3	Vertical	32	1.09	-
5260MHz	Pass	PK	5.257G	120.72	Inf	-Inf	3	Vertical	32	1.09	-
5260MHz	Pass	PK	5.3554G	57.13	74.00	-16.87	3	Vertical	32	1.09	-
5260MHz	Pass	AV	5.1196G	47.21	54.00	-6.79	3	Horizontal	14	2.11	-
5260MHz	Pass	AV	5.2606G	113.00	Inf	-Inf	3	Horizontal	14	2.11	-
5260MHz	Pass	AV	5.3794G	46.45	54.00	-7.55	3	Horizontal	14	2.11	-
5260MHz	Pass	PK	5.137G	65.44	74.00	-8.56	3	Horizontal	14	2.11	-
5260MHz	Pass	PK	5.266G	121.70	Inf	-Inf	3	Horizontal	14	2.11	-
5260MHz	Pass	PK	5.368G	61.20	74.00	-12.80	3	Horizontal	14	2.11	-
5260MHz	Pass	AV	15.78132G	51.00	54.00	-3.00	3	Vertical	0	2.40	-
5260MHz	Pass	PK	10.51958G	56.25	68.20	-11.95	3	Vertical	52	2.42	-
5260MHz	Pass	PK	15.78144G	63.87	74.00	-10.13	3	Vertical	0	2.40	-
5260MHz	Pass	AV	15.78132G	53.17	54.00	-0.83	3	Horizontal	356	2.70	-
5260MHz	Pass	PK	10.52012G	57.41	68.20	-10.79	3	Horizontal	335	1.01	-
5260MHz	Pass	PK	15.78138G	65.64	74.00	-8.36	3	Horizontal	356	2.70	-
5300MHz	Pass	AV	5.2968G	111.84	Inf	-Inf	3	Vertical	40	1.04	-
5300MHz	Pass	AV	5.3512G	52.05	54.00	-1.95	3	Vertical	40	1.04	-
5300MHz	Pass	PK	5.2968G	120.14	Inf	-Inf	3	Vertical	40	1.04	-
5300MHz	Pass	PK	5.352G	66.55	74.00	-7.45	3	Vertical	40	1.04	-
5300MHz	Pass	AV	5.2952G	111.18	Inf	-Inf	3	Horizontal	20	1.82	-
5300MHz	Pass	AV	5.35G	50.78	54.00	-3.22	3	Horizontal	20	1.82	-
5300MHz	Pass	PK	5.306G	119.39	Inf	-Inf	3	Horizontal	20	1.82	-
5300MHz	Pass	PK	5.3504G	63.66	74.00	-10.34	3	Horizontal	20	1.82	-
5300MHz	Pass	AV	15.90102G	48.95	54.00	-5.05	3	Vertical	0	2.39	-
5300MHz	Pass	PK	10.60504G	56.87	74.00	-17.13	3	Vertical	48	2.04	-
5300MHz	Pass	PK	15.9015G	61.84	74.00	-12.16	3	Vertical	0	2.39	-
5300MHz	Pass	AV	15.90096G	50.09	54.00	-3.91	3	Horizontal	341	1.97	-
5300MHz	Pass	PK	10.5913G	56.76	68.20	-11.44	3	Horizontal	122	2.15	-
5300MHz	Pass	PK	15.90174G	63.17	74.00	-10.83	3	Horizontal	341	1.97	-
5320MHz	Pass	AV	5.3218G	108.25	Inf	-Inf	3	Vertical	36	1.02	-
5320MHz	Pass	AV	5.3512G	53.11	54.00	-0.89	3	Vertical	36	1.02	-
5320MHz	Pass	PK	5.3168G	117.26	Inf	-Inf	3	Vertical	36	1.02	-
5320MHz	Pass	PK	5.3524G	72.13	74.00	-1.87	3	Vertical	36	1.02	-
5320MHz	Pass	AV	5.3208G	107.58	Inf	-Inf	3	Horizontal	13	1.94	-
5320MHz	Pass	AV	5.35G	53.05	54.00	-0.95	3	Horizontal	13	1.94	-
5320MHz	Pass	PK	5.3256G	117.38	Inf	-Inf	3	Horizontal	13	1.94	-
5320MHz	Pass	PK	5.351G	69.12	74.00	-4.88	3	Horizontal	13	1.94	-
5320MHz	Pass	AV	10.63982G	46.05	54.00	-7.95	3	Vertical	194	1.72	-
5320MHz	Pass	AV	15.95742G	45.48	54.00	-8.52	3	Vertical	282	1.45	-
5320MHz	Pass	PK	10.63748G	57.16	74.00	-16.84	3	Vertical	194	1.72	-
5320MHz	Pass	PK	15.9747G	57.27	74.00	-16.73	3	Vertical	282	1.45	-
5320MHz	Pass	AV	10.63994G	45.72	54.00	-8.28	3	Horizontal	332	1.88	-
5320MHz	Pass	AV	15.9552G	45.50	54.00	-8.50	3	Horizontal	64	1.21	-
5320MHz	Pass	PK	10.6325G	56.09	74.00	-17.91	3	Horizontal	332	1.88	-
5320MHz	Pass	PK	15.9564G	58.03	74.00	-15.97	3	Horizontal	64	1.21	-
5500MHz	Pass	AV	5.4574G	47.68	54.00	-6.32	3	Vertical	37	1.23	-
5500MHz	Pass	AV	5.4968G	107.49	Inf	-Inf	3	Vertical	37	1.23	-
5500MHz	Pass	PK	5.467G	66.95	68.20	-1.25	3	Vertical	37	1.23	-
5500MHz	Pass	PK	5.4966G	116.73	Inf	-Inf	3	Vertical	37	1.23	-
5500MHz	Pass	AV	5.458G	47.49	54.00	-6.51	3	Horizontal	67	1.10	-
5500MHz	Pass	AV	5.4978G	108.46	Inf	-Inf	3	Horizontal	67	1.10	-
5500MHz	Pass	PK	5.467G	65.48	68.20	-2.72	3	Horizontal	67	1.10	-
5500MHz	Pass	PK	5.5028G	117.31	Inf	-Inf	3	Horizontal	67	1.10	-
5500MHz	Pass	AV	11.003G	45.11	54.00	-8.89	3	Vertical	116	1.64	-
5500MHz	Pass	PK	11.00084G	56.98	74.00	-17.02	3	Vertical	116	1.64	-
5500MHz	Pass	PK	16.51254G	60.16	68.20	-8.04	3	Vertical	356	2.18	-
5500MHz	Pass	AV	11.00054G	45.59	54.00	-8.41	3	Horizontal	340	2.84	-



RSE TX above 1GHz _Non-Beamforming

Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5500MHz	Pass	PK	10.9976G	57.45	74.00	-16.55	3	Horizontal	340	2.84	-
5500MHz	Pass	PK	16.49784G	60.06	68.20	-8.14	3	Horizontal	64	1.79	-
5580MHz	Pass	AV	5.4492G	45.51	54.00	-8.49	3	Vertical	335	1.44	-
5580MHz	Pass	AV	5.5836G	110.95	Inf	-Inf	3	Vertical	335	1.44	-
5580MHz	Pass	PK	5.4606G	59.40	68.20	-8.80	3	Vertical	335	1.44	-
5580MHz	Pass	PK	5.5836G	118.66	Inf	-Inf	3	Vertical	335	1.44	-
5580MHz	Pass	PK	5.7294G	56.83	68.20	-11.37	3	Vertical	335	1.44	-
5580MHz	Pass	AV	5.4318G	45.62	54.00	-8.38	3	Horizontal	63	1.41	-
5580MHz	Pass	AV	5.5836G	111.40	Inf	-Inf	3	Horizontal	63	1.41	-
5580MHz	Pass	PK	5.466G	59.26	68.20	-8.94	3	Horizontal	63	1.41	-
5580MHz	Pass	PK	5.5788G	119.36	Inf	-Inf	3	Horizontal	63	1.41	-
5580MHz	Pass	PK	5.7288G	56.12	68.20	-12.08	3	Horizontal	63	1.41	-
5580MHz	Pass	AV	11.16978G	45.29	54.00	-8.71	3	Vertical	0	1.72	-
5580MHz	Pass	PK	11.14884G	57.64	74.00	-16.36	3	Vertical	0	1.72	-
5580MHz	Pass	PK	16.73622G	64.70	68.20	-3.50	3	Vertical	333	1.51	-
5580MHz	Pass	AV	11.15988G	47.27	54.00	-6.73	3	Horizontal	72	2.11	-
5580MHz	Pass	PK	11.16006G	59.02	74.00	-14.98	3	Horizontal	72	2.11	-
5580MHz	Pass	PK	16.74228G	65.12	68.20	-3.08	3	Horizontal	31	2.85	-
5700MHz	Pass	AV	5.7044G	103.64	Inf	-Inf	3	Vertical	330	1.57	-
5700MHz	Pass	PK	5.6944G	111.73	Inf	-Inf	3	Vertical	330	1.57	-
5700MHz	Pass	PK	5.7252G	64.65	68.20	-3.55	3	Vertical	330	1.57	-
5700MHz	Pass	AV	5.7252G	51.72	Inf	-Inf	3	Horizontal	62	1.87	-
5700MHz	Pass	PK	5.7056G	114.28	Inf	-Inf	3	Horizontal	62	1.87	-
5700MHz	Pass	PK	5.7252G	67.46	68.20	-0.74	3	Horizontal	62	1.87	-
5700MHz	Pass	AV	11.39988G	45.08	54.00	-8.92	3	Vertical	215	1.30	-
5700MHz	Pass	PK	11.4G	56.95	74.00	-17.05	3	Vertical	215	1.30	-
5700MHz	Pass	PK	17.1006G	61.05	68.20	-7.15	3	Vertical	214	2.45	-
5700MHz	Pass	AV	11.3967G	45.07	54.00	-8.93	3	Horizontal	353	1.20	-
5700MHz	Pass	PK	11.41176G	56.82	74.00	-17.18	3	Horizontal	353	1.20	-
5700MHz	Pass	PK	17.1087G	61.95	68.20	-6.25	3	Horizontal	74	1.95	-
802.11ac VHT20_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.1358G	47.62	54.00	-6.38	3	Vertical	36	1.00	-
5260MHz	Pass	AV	5.2654G	111.69	Inf	-Inf	3	Vertical	36	1.00	-
5260MHz	Pass	AV	5.3764G	45.99	54.00	-8.01	3	Vertical	36	1.00	-
5260MHz	Pass	PK	5.1358G	61.62	74.00	-12.38	3	Vertical	36	1.00	-
5260MHz	Pass	PK	5.2654G	120.81	Inf	-Inf	3	Vertical	36	1.00	-
5260MHz	Pass	PK	5.3764G	59.19	74.00	-14.81	3	Vertical	36	1.00	-
5260MHz	Pass	AV	5.1196G	46.78	54.00	-7.22	3	Horizontal	14	2.12	-
5260MHz	Pass	AV	5.263G	112.72	Inf	-Inf	3	Horizontal	14	2.12	-
5260MHz	Pass	AV	5.3752G	45.98	54.00	-8.02	3	Horizontal	14	2.12	-
5260MHz	Pass	PK	5.137G	65.38	74.00	-8.62	3	Horizontal	14	2.12	-
5260MHz	Pass	PK	5.2618G	122.98	Inf	-Inf	3	Horizontal	14	2.12	-
5260MHz	Pass	PK	5.3596G	62.17	74.00	-11.83	3	Horizontal	14	2.12	-
5260MHz	Pass	AV	15.78384G	50.32	54.00	-3.68	3	Vertical	1	2.39	-
5260MHz	Pass	PK	10.52616G	56.44	68.20	-11.76	3	Vertical	358	1.62	-
5260MHz	Pass	PK	15.78648G	64.75	74.00	-9.25	3	Vertical	1	2.39	-
5260MHz	Pass	AV	15.78376G	51.89	54.00	-2.11	3	Horizontal	356	2.82	-
5260MHz	Pass	PK	10.52G	58.04	68.20	-10.16	3	Horizontal	23	1.50	-
5260MHz	Pass	PK	15.78656G	66.81	74.00	-7.19	3	Horizontal	356	2.82	-
5300MHz	Pass	AV	5.3068G	110.72	Inf	-Inf	3	Vertical	40	1.00	-
5300MHz	Pass	AV	5.35G	52.32	54.00	-1.68	3	Vertical	40	1.00	-
5300MHz	Pass	PK	5.3076G	119.45	Inf	-Inf	3	Vertical	40	1.00	-
5300MHz	Pass	PK	5.35G	73.24	74.00	-0.76	3	Vertical	40	1.00	-
5300MHz	Pass	AV	5.3032G	111.92	Inf	-Inf	3	Horizontal	15	2.23	-
5300MHz	Pass	AV	5.35G	50.58	54.00	-3.42	3	Horizontal	15	2.23	-
5300MHz	Pass	PK	5.3016G	122.02	Inf	-Inf	3	Horizontal	15	2.23	-
5300MHz	Pass	PK	5.35G	72.04	74.00	-1.96	3	Horizontal	15	2.23	-
5300MHz	Pass	AV	15.90384G	48.06	54.00	-5.94	3	Vertical	360	2.43	-
5300MHz	Pass	PK	10.59984G	57.59	68.20	-10.61	3	Vertical	253	1.86	-
5300MHz	Pass	PK	15.9012G	61.56	74.00	-12.44	3	Vertical	360	2.43	-
5300MHz	Pass	AV	15.90392G	49.31	54.00	-4.69	3	Horizontal	342	1.92	-
5300MHz	Pass	PK	10.5999G	57.22	68.20	-10.98	3	Horizontal	23	1.47	-



RSE TX above 1GHz_Non-Beamforming

Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5300MHz	Pass	PK	15.9064G	65.01	74.00	-8.99	3	Horizontal	342	1.92	-
5320MHz	Pass	AV	5.313G	106.40	Inf	-Inf	3	Vertical	33	1.38	-
5320MHz	Pass	AV	5.35G	52.48	54.00	-1.52	3	Vertical	33	1.38	-
5320MHz	Pass	PK	5.3126G	115.50	Inf	-Inf	3	Vertical	33	1.38	-
5320MHz	Pass	PK	5.3508G	73.31	74.00	-0.69	3	Vertical	33	1.38	-
5320MHz	Pass	AV	5.3214G	107.28	Inf	-Inf	3	Horizontal	27	1.90	-
5320MHz	Pass	AV	5.3588G	48.05	54.00	-5.95	3	Horizontal	27	1.90	-
5320MHz	Pass	PK	5.3216G	117.50	Inf	-Inf	3	Horizontal	27	1.90	-
5320MHz	Pass	PK	5.3504G	68.92	74.00	-5.08	3	Horizontal	27	1.90	-
5320MHz	Pass	AV	10.6399G	43.69	54.00	-10.31	3	Vertical	28	1.22	-
5320MHz	Pass	AV	15.96024G	44.72	54.00	-9.28	3	Vertical	141	1.35	-
5320MHz	Pass	PK	10.64418G	56.07	74.00	-17.93	3	Vertical	28	1.22	-
5320MHz	Pass	PK	15.96034G	58.23	74.00	-15.77	3	Vertical	141	1.35	-
5320MHz	Pass	AV	10.63768G	43.57	54.00	-10.43	3	Horizontal	267	1.62	-
5320MHz	Pass	AV	15.96166G	44.70	54.00	-9.30	3	Horizontal	95	1.25	-
5320MHz	Pass	PK	10.6445G	56.20	74.00	-17.80	3	Horizontal	267	1.62	-
5320MHz	Pass	PK	15.95874G	57.35	74.00	-16.65	3	Horizontal	95	1.25	-
5500MHz	Pass	AV	5.4598G	46.91	54.00	-7.09	3	Vertical	35	1.17	-
5500MHz	Pass	AV	5.5068G	105.86	Inf	-Inf	3	Vertical	35	1.17	-
5500MHz	Pass	PK	5.4668G	66.68	68.20	-1.52	3	Vertical	35	1.17	-
5500MHz	Pass	PK	5.5074G	114.86	Inf	-Inf	3	Vertical	35	1.17	-
5500MHz	Pass	AV	5.4598G	47.97	54.00	-6.03	3	Horizontal	0	2.40	-
5500MHz	Pass	AV	5.5016G	107.34	Inf	-Inf	3	Horizontal	0	2.40	-
5500MHz	Pass	PK	5.4644G	65.43	68.20	-2.77	3	Horizontal	0	2.40	-
5500MHz	Pass	PK	5.5016G	117.63	Inf	-Inf	3	Horizontal	0	2.40	-
5500MHz	Pass	AV	11.00768G	44.49	54.00	-9.51	3	Vertical	17	2.09	-
5500MHz	Pass	PK	10.99632G	57.00	74.00	-17.00	3	Vertical	17	2.09	-
5500MHz	Pass	PK	16.50944G	59.54	68.20	-8.66	3	Vertical	294	2.14	-
5500MHz	Pass	AV	10.9992G	44.84	54.00	-9.16	3	Horizontal	204	1.81	-
5500MHz	Pass	PK	11.00984G	58.57	74.00	-15.43	3	Horizontal	204	1.81	-
5500MHz	Pass	PK	16.5136G	59.73	68.20	-8.47	3	Horizontal	245	3.00	-
5580MHz	Pass	AV	5.43G	45.14	54.00	-8.86	3	Vertical	331	1.72	-
5580MHz	Pass	AV	5.5764G	110.42	Inf	-Inf	3	Vertical	331	1.72	-
5580MHz	Pass	PK	5.4636G	61.26	68.20	-6.94	3	Vertical	331	1.72	-
5580MHz	Pass	PK	5.5764G	119.76	Inf	-Inf	3	Vertical	331	1.72	-
5580MHz	Pass	PK	5.7282G	56.98	68.20	-11.22	3	Vertical	331	1.72	-
5580MHz	Pass	AV	5.4504G	45.04	54.00	-8.96	3	Horizontal	63	1.33	-
5580MHz	Pass	AV	5.5746G	111.50	Inf	-Inf	3	Horizontal	63	1.33	-
5580MHz	Pass	PK	5.4636G	60.01	68.20	-8.19	3	Horizontal	63	1.33	-
5580MHz	Pass	PK	5.5758G	120.40	Inf	-Inf	3	Horizontal	63	1.33	-
5580MHz	Pass	PK	5.7294G	57.35	68.20	-10.85	3	Horizontal	63	1.33	-
5580MHz	Pass	AV	11.1568G	45.05	54.00	-8.95	3	Vertical	47	1.43	-
5580MHz	Pass	PK	11.16376G	57.95	74.00	-16.05	3	Vertical	47	1.43	-
5580MHz	Pass	PK	16.74064G	64.33	68.20	-3.87	3	Vertical	334	1.50	-
5580MHz	Pass	AV	11.15968G	45.91	54.00	-8.09	3	Horizontal	25	2.10	-
5580MHz	Pass	PK	11.16184G	58.91	74.00	-15.09	3	Horizontal	25	2.10	-
5580MHz	Pass	PK	16.75336G	64.86	68.20	-3.34	3	Horizontal	33	2.85	-
5700MHz	Pass	AV	5.6976G	104.50	Inf	-Inf	3	Vertical	328	1.49	-
5700MHz	Pass	PK	5.696G	114.24	Inf	-Inf	3	Vertical	328	1.49	-
5700MHz	Pass	PK	5.7352G	65.47	68.20	-2.73	3	Vertical	328	1.49	-
5700MHz	Pass	AV	5.6984G	106.57	Inf	-Inf	3	Horizontal	63	1.90	-
5700MHz	Pass	AV	5.7252G	52.28	Inf	-Inf	3	Horizontal	63	1.90	-
5700MHz	Pass	PK	5.7016G	116.19	Inf	-Inf	3	Horizontal	63	1.90	-
5700MHz	Pass	PK	5.7396G	67.39	68.20	-0.81	3	Horizontal	63	1.90	-
5700MHz	Pass	AV	11.39968G	44.39	54.00	-9.61	3	Vertical	217	2.22	-
5700MHz	Pass	PK	11.38288G	56.88	74.00	-17.12	3	Vertical	217	2.22	-
5700MHz	Pass	PK	17.08368G	61.82	68.20	-6.38	3	Vertical	20	2.35	-
5700MHz	Pass	AV	11.39944G	44.39	54.00	-9.61	3	Horizontal	6	2.32	-
5700MHz	Pass	PK	11.39376G	56.95	74.00	-17.05	3	Horizontal	6	2.32	-
5700MHz	Pass	PK	17.0868G	62.21	68.20	-5.99	3	Horizontal	207	2.10	-
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	AV	5.2784G	107.26	Inf	-Inf	3	Vertical	34	1.08	-



RSE TX above 1GHz_Non-Beamforming

Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5270MHz	Pass	AV	5.3544G	51.57	54.00	-2.43	3	Vertical	34	1.08	-
5270MHz	Pass	PK	5.2808G	115.73	Inf	-Inf	3	Vertical	34	1.08	-
5270MHz	Pass	PK	5.3516G	66.24	74.00	-7.76	3	Vertical	34	1.08	-
5270MHz	Pass	AV	5.2732G	107.57	Inf	-Inf	3	Horizontal	23	2.05	-
5270MHz	Pass	AV	5.3512G	51.47	54.00	-2.53	3	Horizontal	23	2.05	-
5270MHz	Pass	PK	5.2736G	115.92	Inf	-Inf	3	Horizontal	23	2.05	-
5270MHz	Pass	PK	5.3504G	67.50	74.00	-6.50	3	Horizontal	23	2.05	-
5270MHz	Pass	AV	15.8068G	45.31	54.00	-8.69	3	Vertical	286	1.52	-
5270MHz	Pass	PK	10.553G	56.11	68.20	-12.09	3	Vertical	6	1.71	-
5270MHz	Pass	PK	15.8179G	57.36	74.00	-16.64	3	Vertical	286	1.52	-
5270MHz	Pass	AV	15.8114G	46.14	54.00	-7.86	3	Horizontal	360	2.94	-
5270MHz	Pass	PK	10.5281G	56.60	68.20	-11.60	3	Horizontal	85	2.45	-
5270MHz	Pass	PK	15.8169G	58.68	74.00	-15.32	3	Horizontal	360	2.94	-
5310MHz	Pass	AV	5.3184G	102.16	Inf	-Inf	3	Vertical	37	1.14	-
5310MHz	Pass	AV	5.35G	51.40	54.00	-2.60	3	Vertical	37	1.14	-
5310MHz	Pass	PK	5.3172G	110.03	Inf	-Inf	3	Vertical	37	1.14	-
5310MHz	Pass	PK	5.3552G	68.49	74.00	-5.51	3	Vertical	37	1.14	-
5310MHz	Pass	AV	5.3144G	103.18	Inf	-Inf	3	Horizontal	12	2.15	-
5310MHz	Pass	AV	5.3508G	53.25	54.00	-0.75	3	Horizontal	12	2.15	-
5310MHz	Pass	PK	5.314G	111.79	Inf	-Inf	3	Horizontal	12	2.15	-
5310MHz	Pass	PK	5.3528G	68.13	74.00	-5.87	3	Horizontal	12	2.15	-
5310MHz	Pass	AV	15.9458G	45.30	54.00	-8.70	3	Vertical	26	2.32	-
5310MHz	Pass	PK	10.6011G	56.49	74.00	-17.51	3	Vertical	260	1.80	-
5310MHz	Pass	PK	15.9227G	57.11	74.00	-16.89	3	Vertical	26	2.32	-
5310MHz	Pass	AV	15.9454G	45.15	54.00	-8.85	3	Horizontal	314	2.18	-
5310MHz	Pass	PK	10.6073G	56.38	74.00	-17.62	3	Horizontal	139	1.33	-
5310MHz	Pass	PK	15.9355G	57.43	74.00	-16.57	3	Horizontal	314	2.18	-
5510MHz	Pass	AV	5.46G	49.00	54.00	-5.00	3	Vertical	344	1.09	-
5510MHz	Pass	AV	5.5208G	101.41	Inf	-Inf	3	Vertical	344	1.09	-
5510MHz	Pass	PK	5.4652G	64.12	68.20	-4.08	3	Vertical	344	1.09	-
5510MHz	Pass	PK	5.5224G	110.26	Inf	-Inf	3	Vertical	344	1.09	-
5510MHz	Pass	AV	5.4516G	48.18	54.00	-5.82	3	Horizontal	0	2.36	-
5510MHz	Pass	AV	5.5144G	103.29	Inf	-Inf	3	Horizontal	0	2.36	-
5510MHz	Pass	PK	5.4696G	66.19	68.20	-2.01	3	Horizontal	0	2.36	-
5510MHz	Pass	PK	5.5128G	113.19	Inf	-Inf	3	Horizontal	0	2.36	-
5510MHz	Pass	AV	11.0197G	44.96	54.00	-9.04	3	Vertical	144	1.73	-
5510MHz	Pass	PK	11.0337G	57.22	74.00	-16.78	3	Vertical	144	1.73	-
5510MHz	Pass	PK	16.5493G	59.88	68.20	-8.32	3	Vertical	46	2.18	-
5510MHz	Pass	AV	11.0237G	44.99	54.00	-9.01	3	Horizontal	12	1.02	-
5510MHz	Pass	PK	10.9973G	57.13	74.00	-16.87	3	Horizontal	12	1.02	-
5510MHz	Pass	PK	16.5286G	60.93	68.20	-7.27	3	Horizontal	249	2.01	-
5550MHz	Pass	AV	5.4596G	47.51	54.00	-6.49	3	Vertical	336	1.41	-
5550MHz	Pass	AV	5.5656G	106.81	Inf	-Inf	3	Vertical	336	1.41	-
5550MHz	Pass	PK	5.466G	65.29	68.20	-2.91	3	Vertical	336	1.41	-
5550MHz	Pass	PK	5.5648G	115.20	Inf	-Inf	3	Vertical	336	1.41	-
5550MHz	Pass	AV	5.46G	50.05	54.00	-3.95	3	Horizontal	66	1.01	-
5550MHz	Pass	AV	5.5608G	108.68	Inf	-Inf	3	Horizontal	66	1.01	-
5550MHz	Pass	PK	5.464G	66.71	68.20	-1.49	3	Horizontal	66	1.01	-
5550MHz	Pass	PK	5.5608G	117.10	Inf	-Inf	3	Horizontal	66	1.01	-
5550MHz	Pass	AV	11.0998G	45.51	54.00	-8.49	3	Vertical	201	1.72	-
5550MHz	Pass	PK	11.0917G	57.96	74.00	-16.04	3	Vertical	201	1.72	-
5550MHz	Pass	PK	16.6319G	59.92	68.20	-8.28	3	Vertical	305	1.20	-
5550MHz	Pass	AV	11.0998G	46.01	54.00	-7.99	3	Horizontal	295	1.61	-
5550MHz	Pass	PK	11.1119G	57.30	74.00	-16.70	3	Horizontal	295	1.61	-
5550MHz	Pass	PK	16.6496G	61.28	68.20	-6.92	3	Horizontal	30	2.73	-
5670MHz	Pass	AV	5.6682G	102.90	Inf	-Inf	3	Vertical	326	1.58	-
5670MHz	Pass	PK	5.6676G	111.20	Inf	-Inf	3	Vertical	326	1.58	-
5670MHz	Pass	PK	5.7282G	63.78	68.20	-4.42	3	Vertical	326	1.58	-
5670MHz	Pass	AV	5.6682G	104.36	Inf	-Inf	3	Horizontal	59	1.81	-
5670MHz	Pass	PK	5.667G	112.78	Inf	-Inf	3	Horizontal	59	1.81	-
5670MHz	Pass	PK	5.7294G	67.98	68.20	-0.22	3	Horizontal	59	1.81	-
5670MHz	Pass	AV	11.3232G	44.85	54.00	-9.15	3	Vertical	230	1.98	-



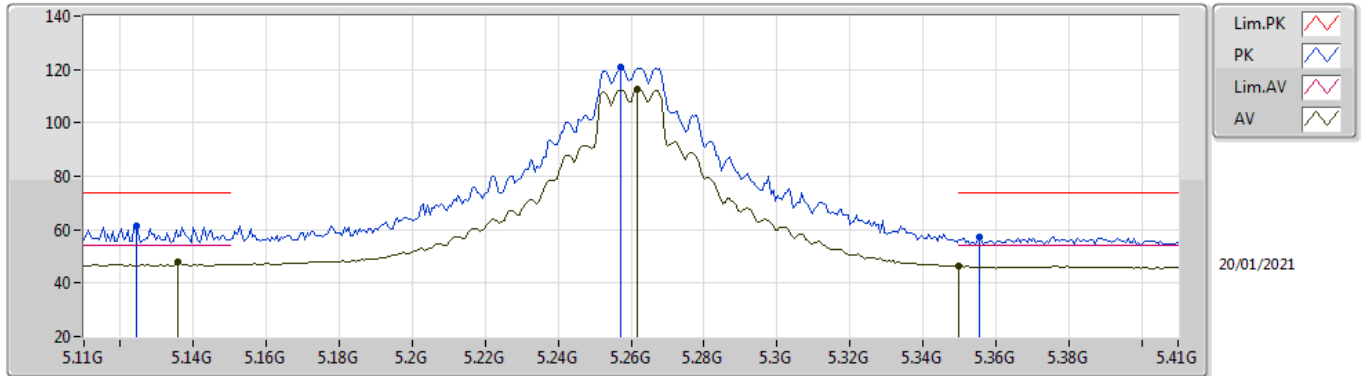
RSE TX above 1GHz_Non-Beamforming

Appendix D.1

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5670MHz	Pass	PK	11.3494G	56.21	74.00	-17.79	3	Vertical	230	1.98	-
5670MHz	Pass	PK	16.9915G	61.06	68.20	-7.14	3	Vertical	320	2.69	-
5670MHz	Pass	AV	11.3227G	44.71	54.00	-9.29	3	Horizontal	118	2.09	-
5670MHz	Pass	PK	11.3395G	56.81	74.00	-17.19	3	Horizontal	118	2.09	-
5670MHz	Pass	PK	17.0173G	60.86	68.20	-7.34	3	Horizontal	204	2.78	-
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	AV	5.136G	47.73	54.00	-6.27	3	Vertical	35	1.11	-
5290MHz	Pass	AV	5.259G	98.78	Inf	-Inf	3	Vertical	35	1.11	-
5290MHz	Pass	AV	5.358G	52.39	54.00	-1.61	3	Vertical	35	1.11	-
5290MHz	Pass	PK	5.136G	59.68	74.00	-14.32	3	Vertical	35	1.11	-
5290MHz	Pass	PK	5.26G	107.64	Inf	-Inf	3	Vertical	35	1.11	-
5290MHz	Pass	PK	5.357G	67.00	74.00	-7.00	3	Vertical	35	1.11	-
5290MHz	Pass	AV	5.15G	48.32	54.00	-5.68	3	Horizontal	19	2.06	-
5290MHz	Pass	AV	5.272G	98.93	Inf	-Inf	3	Horizontal	19	2.06	-
5290MHz	Pass	AV	5.353G	53.74	54.00	-0.26	3	Horizontal	19	2.06	-
5290MHz	Pass	PK	5.119G	60.98	74.00	-13.02	3	Horizontal	19	2.06	-
5290MHz	Pass	PK	5.273G	108.40	Inf	-Inf	3	Horizontal	19	2.06	-
5290MHz	Pass	PK	5.352G	66.02	74.00	-7.98	3	Horizontal	19	2.06	-
5290MHz	Pass	AV	15.858G	45.17	54.00	-8.83	3	Vertical	53	1.09	-
5290MHz	Pass	PK	10.5364G	56.77	68.20	-11.43	3	Vertical	273	1.50	-
5290MHz	Pass	PK	15.912G	57.57	74.00	-16.43	3	Vertical	53	1.09	-
5290MHz	Pass	AV	15.8384G	45.13	54.00	-8.87	3	Horizontal	248	1.50	-
5290MHz	Pass	PK	10.5544G	56.96	68.20	-11.24	3	Horizontal	193	1.26	-
5290MHz	Pass	PK	15.859G	56.98	74.00	-17.02	3	Horizontal	248	1.50	-
5530MHz	Pass	AV	5.46G	53.81	54.00	-0.19	3	Vertical	342	1.39	-
5530MHz	Pass	AV	5.565G	98.77	Inf	-Inf	3	Vertical	342	1.39	-
5530MHz	Pass	PK	5.465G	66.56	68.20	-1.64	3	Vertical	342	1.39	-
5530MHz	Pass	PK	5.565G	107.61	Inf	-Inf	3	Vertical	342	1.39	-
5530MHz	Pass	PK	5.779G	57.44	68.20	-10.76	3	Vertical	342	1.39	-
5530MHz	Pass	AV	5.454G	53.54	54.00	-0.46	3	Horizontal	3	2.54	-
5530MHz	Pass	AV	5.553G	99.90	Inf	-Inf	3	Horizontal	3	2.54	-
5530MHz	Pass	PK	5.47G	65.95	68.20	-2.25	3	Horizontal	3	2.54	-
5530MHz	Pass	PK	5.554G	109.08	Inf	-Inf	3	Horizontal	3	2.54	-
5530MHz	Pass	PK	5.763G	58.01	68.20	-10.19	3	Horizontal	3	2.54	-
5530MHz	Pass	AV	11.04G	44.97	54.00	-9.03	3	Vertical	125	1.89	-
5530MHz	Pass	PK	11.0144G	56.94	74.00	-17.06	3	Vertical	125	1.89	-
5530MHz	Pass	PK	16.6316G	59.53	68.20	-8.67	3	Vertical	277	2.04	-
5530MHz	Pass	AV	11.0722G	45.05	54.00	-8.95	3	Horizontal	137	1.82	-
5530MHz	Pass	PK	11.0294G	57.59	74.00	-16.41	3	Horizontal	137	1.82	-
5530MHz	Pass	PK	16.613G	59.48	68.20	-8.72	3	Horizontal	0	2.17	-
5610MHz	Pass	AV	5.46G	46.71	54.00	-7.29	3	Vertical	338	1.70	-
5610MHz	Pass	AV	5.627G	100.77	Inf	-Inf	3	Vertical	338	1.70	-
5610MHz	Pass	PK	5.468G	60.95	68.20	-7.25	3	Vertical	338	1.70	-
5610MHz	Pass	PK	5.628G	109.49	Inf	-Inf	3	Vertical	338	1.70	-
5610MHz	Pass	PK	5.727G	64.28	68.20	-3.92	3	Vertical	338	1.70	-
5610MHz	Pass	AV	5.449G	46.73	54.00	-7.27	3	Horizontal	66	1.91	-
5610MHz	Pass	AV	5.628G	102.13	Inf	-Inf	3	Horizontal	66	1.91	-
5610MHz	Pass	PK	5.468G	61.50	68.20	-6.70	3	Horizontal	66	1.91	-
5610MHz	Pass	PK	5.626G	111.09	Inf	-Inf	3	Horizontal	66	1.91	-
5610MHz	Pass	PK	5.727G	67.84	68.20	-0.36	3	Horizontal	66	1.91	-
5610MHz	Pass	AV	11.2174G	45.14	54.00	-8.86	3	Vertical	72	1.44	-
5610MHz	Pass	PK	11.2192G	56.79	74.00	-17.21	3	Vertical	72	1.44	-
5610MHz	Pass	PK	16.8068G	60.89	68.20	-7.31	3	Vertical	177	2.08	-
5610MHz	Pass	AV	11.1914G	45.00	54.00	-9.00	3	Horizontal	270	1.85	-
5610MHz	Pass	PK	11.173G	57.84	74.00	-16.16	3	Horizontal	270	1.85	-
5610MHz	Pass	PK	16.8278G	61.36	68.20	-6.84	3	Horizontal	87	2.06	-

802.11a_Nss1,(6Mbps)_2TX

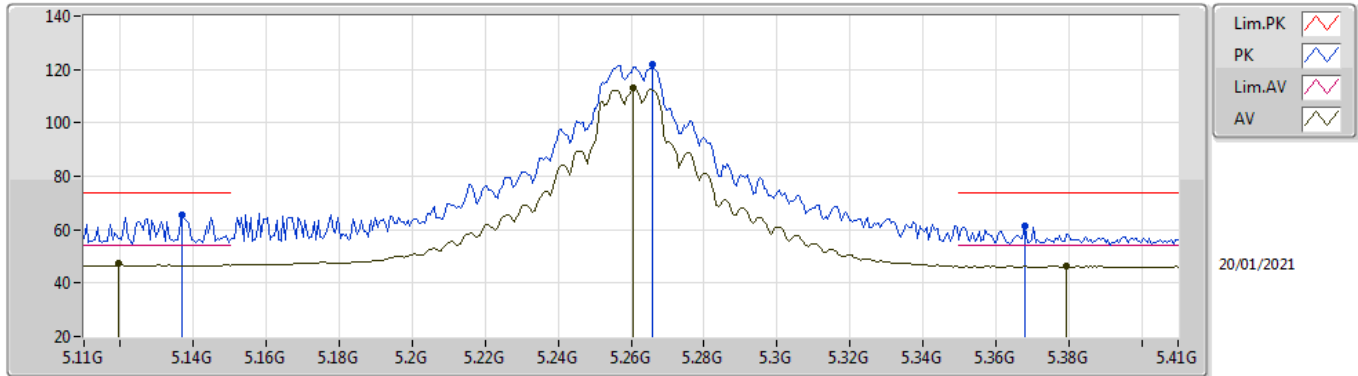
5260MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1358G	48.03	54.00	-5.97	9.56	3	Vertical	32	1.09	-	38.47	31.97	6.77	29.18
AV	5.2618G	112.68	Inf	-Inf	8.99	3	Vertical	32	1.09	-	103.69	31.38	6.80	29.19
AV	5.35G	46.40	54.00	-7.60	8.71	3	Vertical	32	1.09	-	37.69	31.10	6.80	29.19
PK	5.1244G	61.56	74.00	-12.44	9.53	3	Vertical	32	1.09	-	52.03	31.95	6.76	29.18
PK	5.257G	120.72	Inf	-Inf	9.00	3	Vertical	32	1.09	-	111.72	31.39	6.80	29.19
PK	5.3554G	57.13	74.00	-16.87	8.75	3	Vertical	32	1.09	-	48.38	31.14	6.80	29.19

802.11a_Nss1,(6Mbps)_2TX

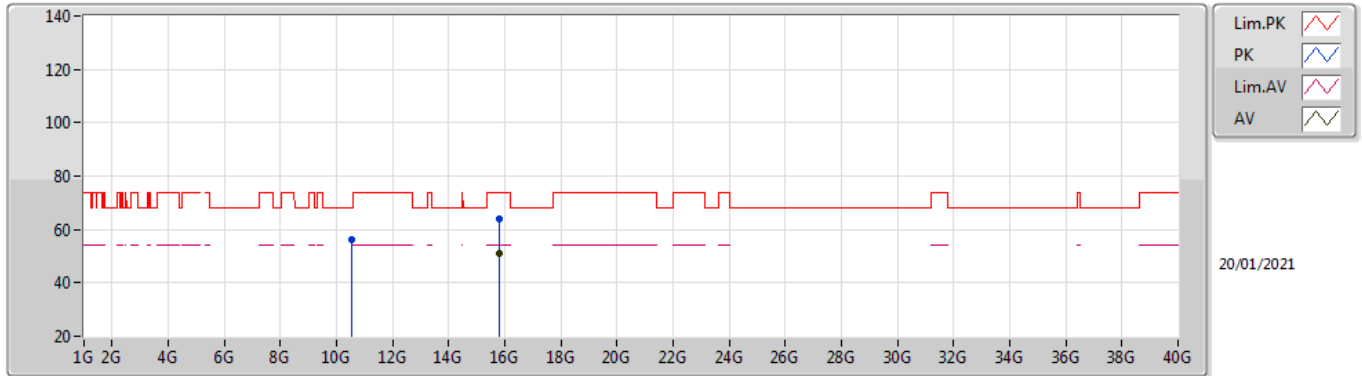
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1196G	47.21	54.00	-6.79	9.52	3	Horizontal	14	2.11	-	37.69	31.94	6.76	29.18
AV	5.2606G	113.00	Inf	-Inf	8.99	3	Horizontal	14	2.11	-	104.01	31.38	6.80	29.19
AV	5.3794G	46.45	54.00	-7.55	8.95	3	Horizontal	14	2.11	-	37.50	31.34	6.80	29.19
PK	5.137G	65.44	74.00	-8.56	9.56	3	Horizontal	14	2.11	-	55.88	31.97	6.77	29.18
PK	5.266G	121.70	Inf	-Inf	8.98	3	Horizontal	14	2.11	-	112.72	31.37	6.80	29.19
PK	5.368G	61.20	74.00	-12.80	8.85	3	Horizontal	14	2.11	-	52.35	31.24	6.80	29.19

802.11a_Nss1,(6Mbps)_2TX

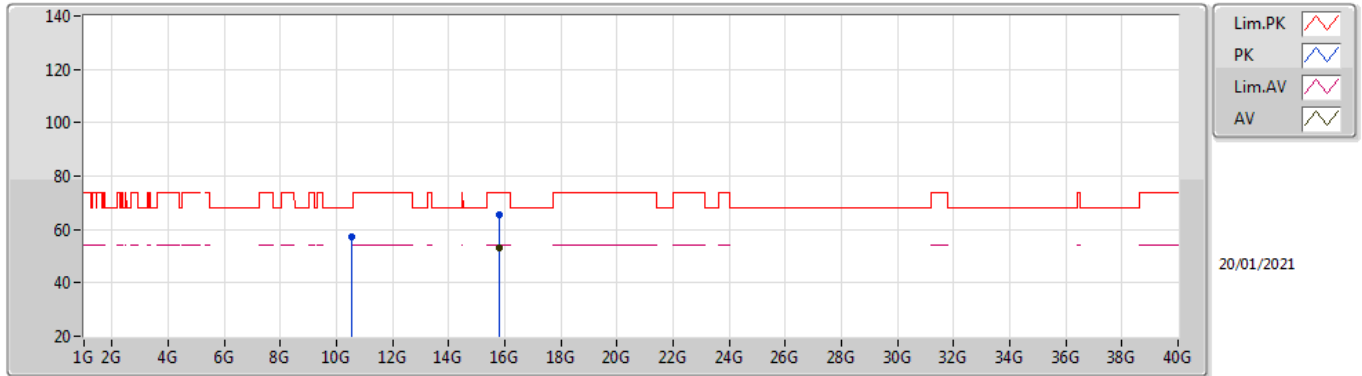
5260MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.78132G	51.00	54.00	-3.00	17.88	3	Vertical	0	2.40	-	33.12	37.54	11.40	31.06
PK	10.51958G	56.25	68.20	-11.95	18.36	3	Vertical	52	2.42	-	37.89	39.72	9.03	30.39
PK	15.78144G	63.87	74.00	-10.13	17.88	3	Vertical	0	2.40	-	45.99	37.54	11.40	31.06

802.11a_Nss1,(6Mbps)_2TX

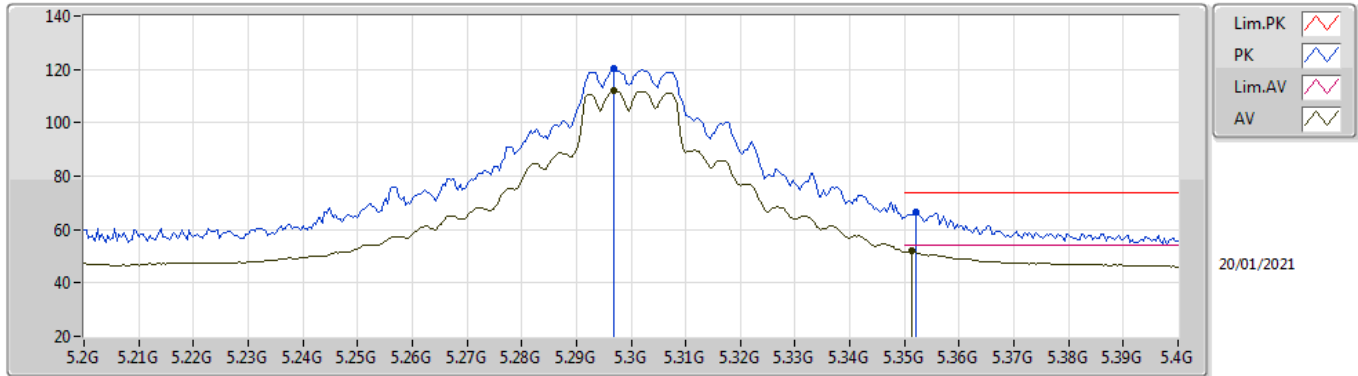
5260MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.78132G	53.17	54.00	-0.83	17.88	3	Horizontal	356	2.70	-	35.29	37.54	11.40	31.06
PK	10.52012G	57.41	68.20	-10.79	18.36	3	Horizontal	335	1.01	-	39.05	39.72	9.03	30.39
PK	15.78138G	65.64	74.00	-8.36	17.88	3	Horizontal	356	2.70	-	47.76	37.54	11.40	31.06

802.11a_Nss1,(6Mbps)_2TX

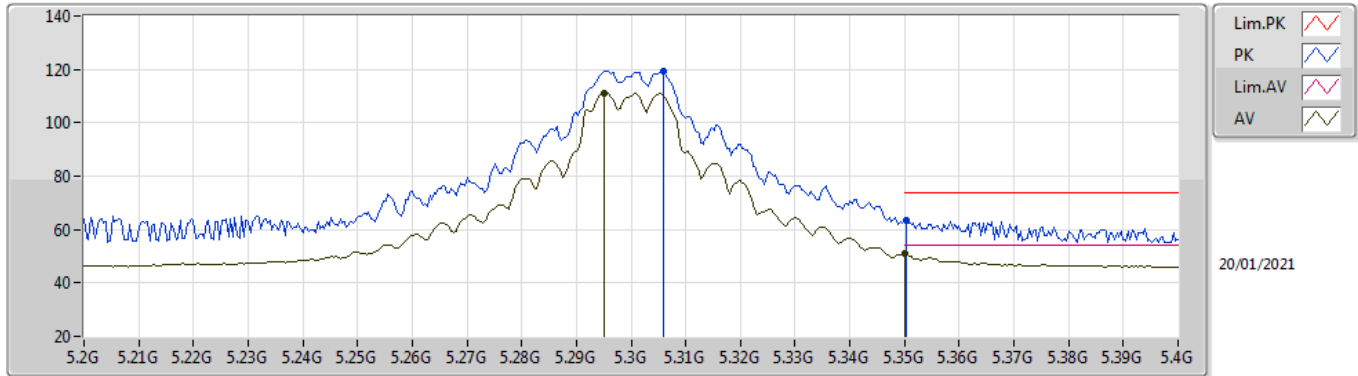
5300MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.2968G	111.84	Inf	-Inf	8.92	3	Vertical	40	1.04	-	102.92	31.31	6.80	29.19
AV	5.3512G	52.05	54.00	-1.95	8.72	3	Vertical	40	1.04	-	43.33	31.11	6.80	29.19
PK	5.2968G	120.14	Inf	-Inf	8.92	3	Vertical	40	1.04	-	111.22	31.31	6.80	29.19
PK	5.352G	66.55	74.00	-7.45	8.73	3	Vertical	40	1.04	-	57.82	31.12	6.80	29.19

802.11a_Nss1,(6Mbps)_2TX

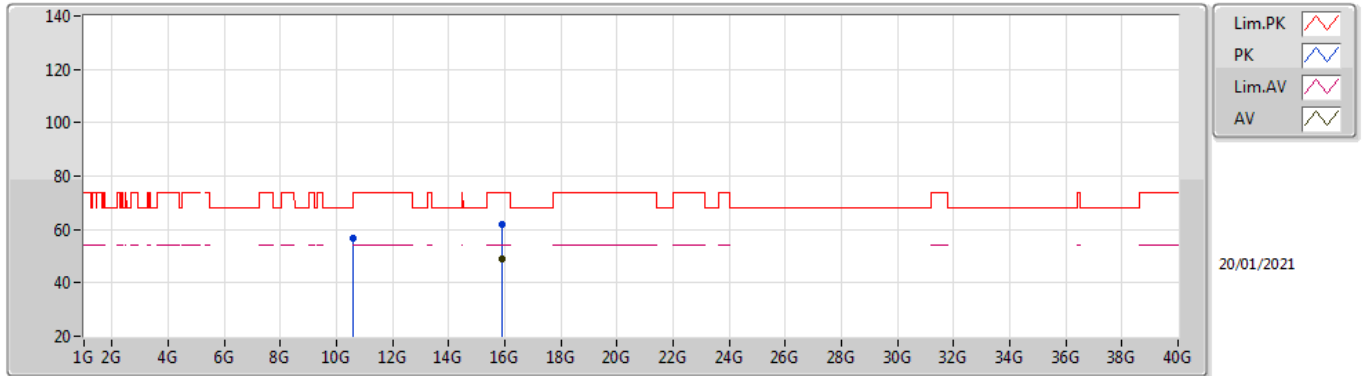
5300MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.2952G	111.18	Inf	-Inf	8.92	3	Horizontal	20	1.82	-	102.26	31.31	6.80	29.19
AV	5.35G	50.78	54.00	-3.22	8.71	3	Horizontal	20	1.82	-	42.07	31.10	6.80	29.19
PK	5.306G	119.39	Inf	-Inf	8.89	3	Horizontal	20	1.82	-	110.50	31.28	6.80	29.19
PK	5.3504G	63.66	74.00	-10.34	8.71	3	Horizontal	20	1.82	-	54.95	31.10	6.80	29.19

802.11a_Nss1,(6Mbps)_2TX

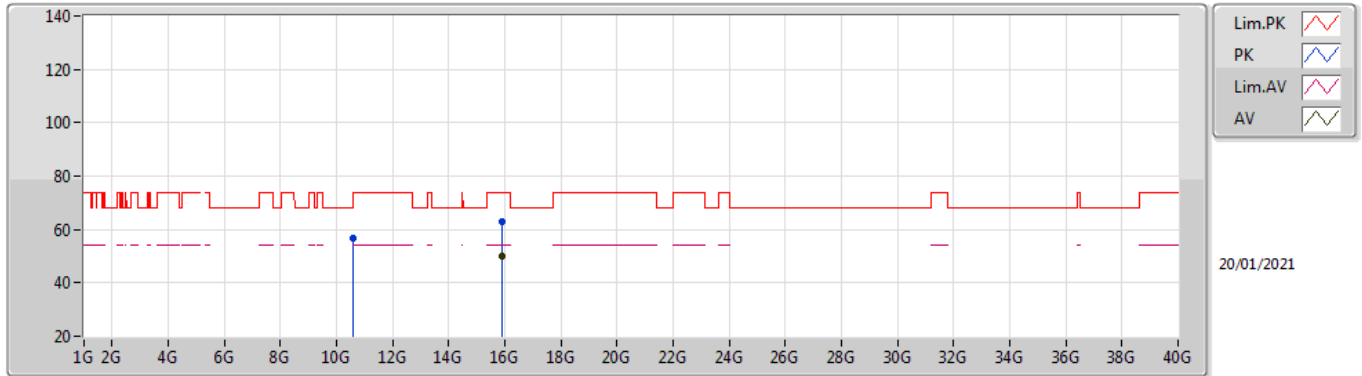
5300MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.90102G	48.95	54.00	-5.05	17.59	3	Vertical	0	2.39	-	31.36	37.20	11.46	31.07
PK	10.60504G	56.87	74.00	-17.13	18.46	3	Vertical	48	2.04	-	38.41	39.79	9.07	30.40
PK	15.9015G	61.84	74.00	-12.16	17.59	3	Vertical	0	2.39	-	44.25	37.20	11.46	31.07

802.11a_Nss1,(6Mbps)_2TX

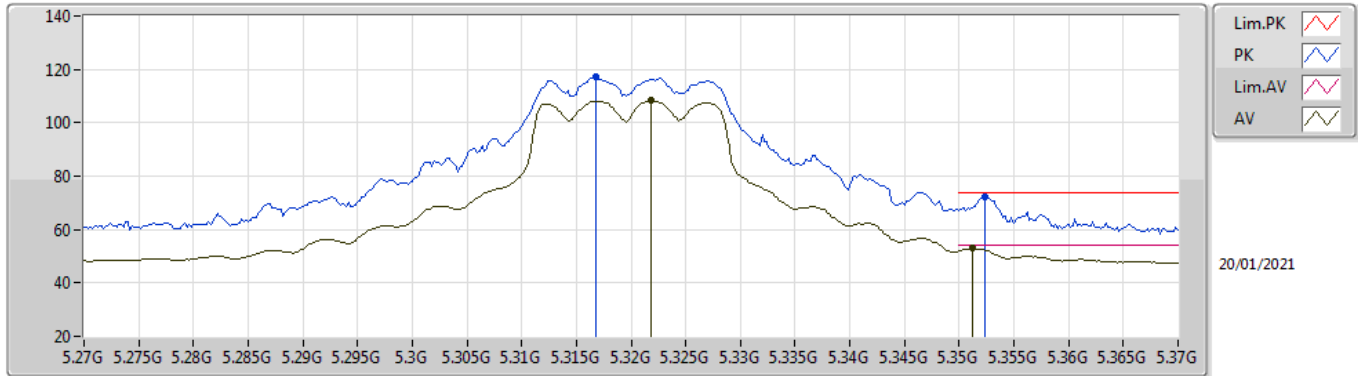
5300MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.90096G	50.09	54.00	-3.91	17.59	3	Horizontal	341	1.97	-	32.50	37.20	11.46	31.07
PK	10.5913G	56.76	68.20	-11.44	18.46	3	Horizontal	122	2.15	-	38.30	39.79	9.07	30.40
PK	15.90174G	63.17	74.00	-10.83	17.59	3	Horizontal	341	1.97	-	45.58	37.20	11.46	31.07

802.11a_Nss1,(6Mbps)_2TX

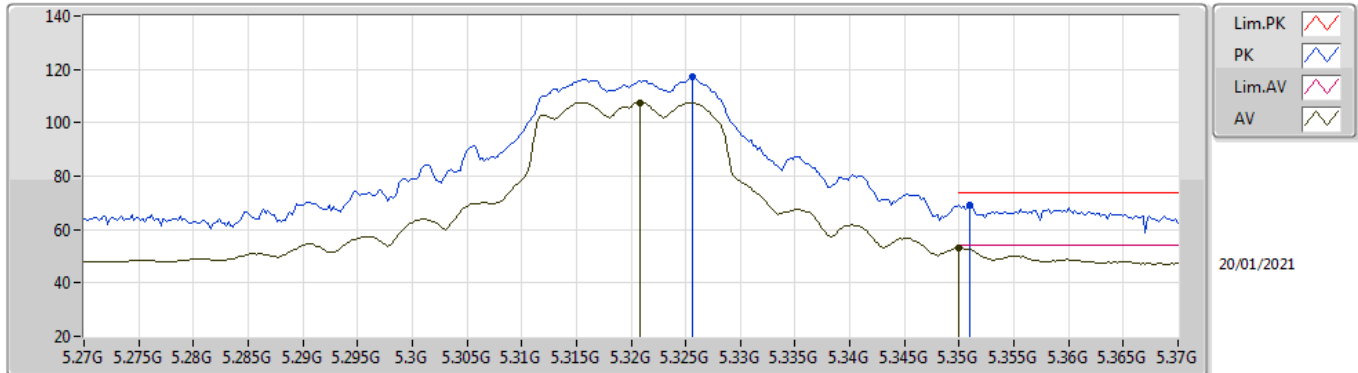
5320MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.3218G	108.25	Inf	-Inf	8.82	3	Vertical	36	1.02	-	99.43	31.21	6.80	29.19
AV	5.3512G	53.11	54.00	-0.89	8.72	3	Vertical	36	1.02	-	44.39	31.11	6.80	29.19
PK	5.3168G	117.26	Inf	-Inf	8.84	3	Vertical	36	1.02	-	108.42	31.23	6.80	29.19
PK	5.3524G	72.13	74.00	-1.87	8.73	3	Vertical	36	1.02	-	63.40	31.12	6.80	29.19

802.11a_Nss1,(6Mbps)_2TX

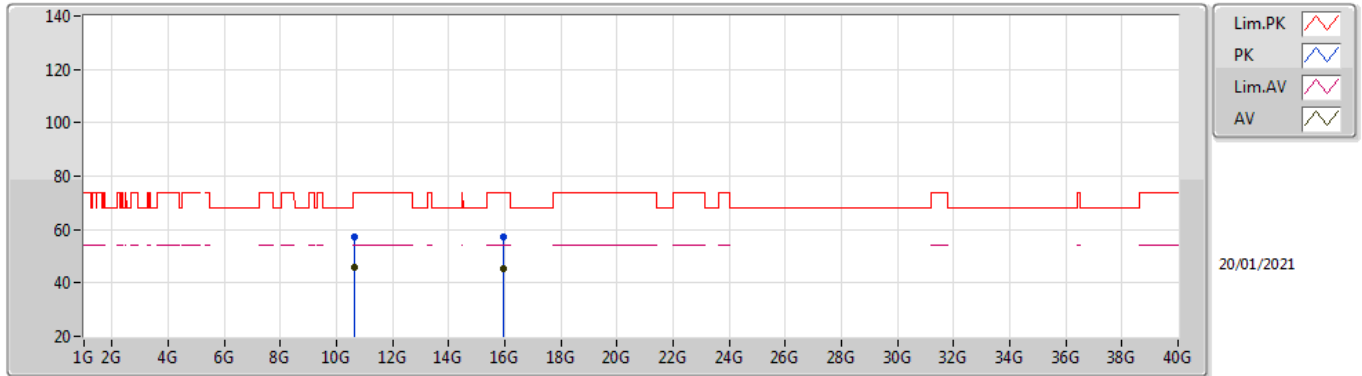
5320MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.3208G	107.58	Inf	-Inf	8.83	3	Horizontal	13	1.94	-	98.75	31.22	6.80	29.19
AV	5.35G	53.05	54.00	-0.95	8.71	3	Horizontal	13	1.94	-	44.34	31.10	6.80	29.19
PK	5.3256G	117.38	Inf	-Inf	8.81	3	Horizontal	13	1.94	-	108.57	31.20	6.80	29.19
PK	5.351G	69.12	74.00	-4.88	8.72	3	Horizontal	13	1.94	-	60.40	31.11	6.80	29.19

802.11a_Nss1,(6Mbps)_2TX

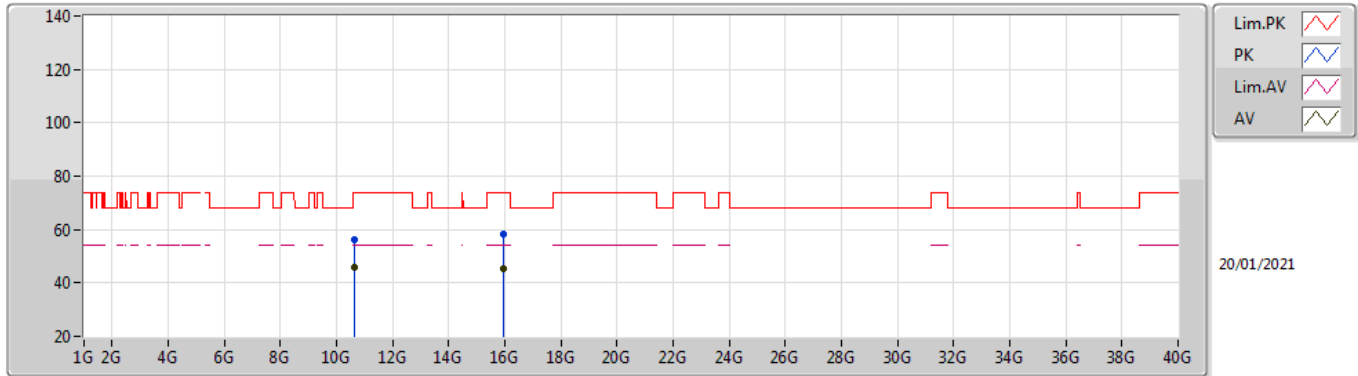
5320MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	10.63982G	46.05	54.00	-7.95	18.44	3	Vertical	194	1.72	-	27.61	39.76	9.09	30.41
AV	15.95742G	45.48	54.00	-8.52	17.49	3	Vertical	282	1.45	-	27.99	37.09	11.48	31.08
PK	10.63748G	57.16	74.00	-16.84	18.44	3	Vertical	194	1.72	-	38.72	39.76	9.09	30.41
PK	15.9747G	57.27	74.00	-16.73	17.46	3	Vertical	282	1.45	-	39.81	37.05	11.49	31.08

802.11a_Nss1,(6Mbps)_2TX

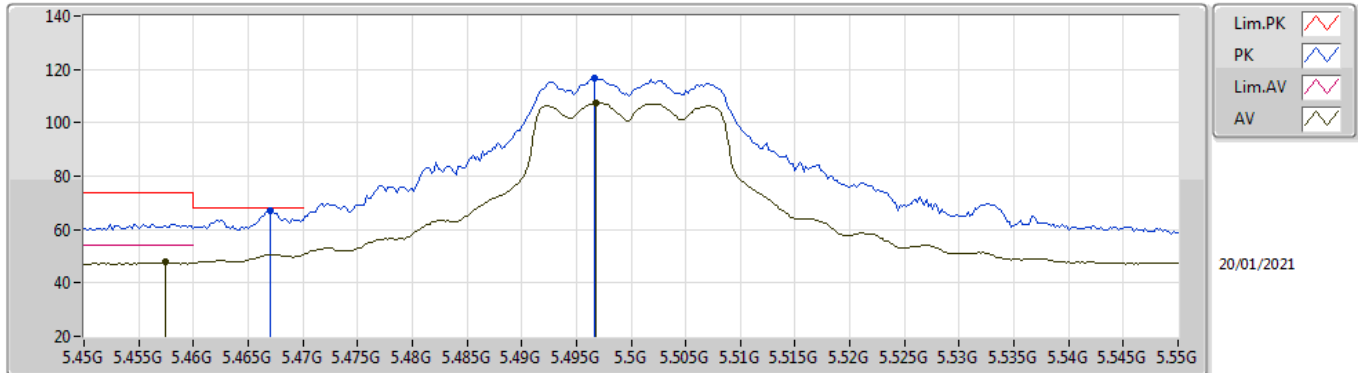
5320MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	10.63994G	45.72	54.00	-8.28	18.44	3	Horizontal	332	1.88	-	27.28	39.76	9.09	30.41
AV	15.9552G	45.50	54.00	-8.50	17.49	3	Horizontal	64	1.21	-	28.01	37.09	11.48	31.08
PK	10.6325G	56.09	74.00	-17.91	18.44	3	Horizontal	332	1.88	-	37.65	39.77	9.08	30.41
PK	15.9564G	58.03	74.00	-15.97	17.49	3	Horizontal	64	1.21	-	40.54	37.09	11.48	31.08

802.11a_Nss1,(6Mbps)_2TX

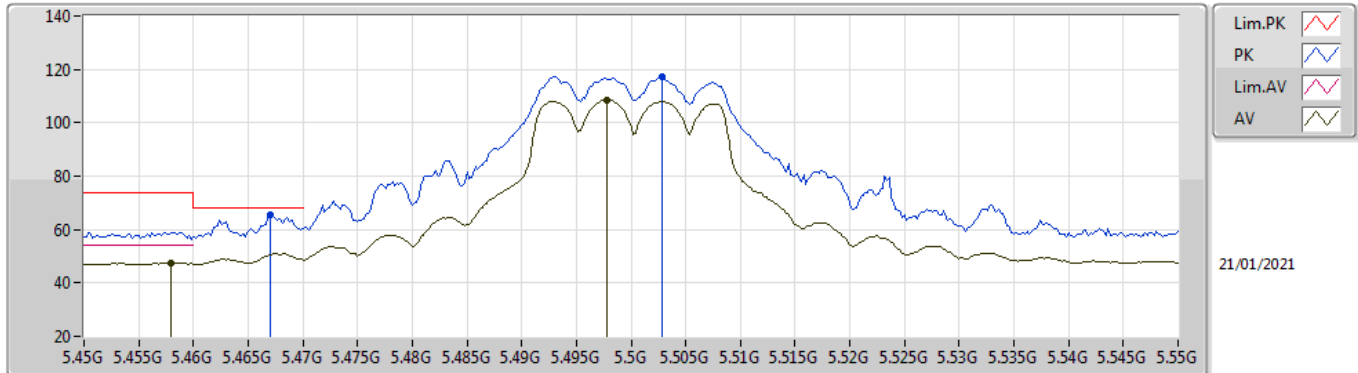
5500MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.4574G	47.68	54.00	-6.32	9.26	3	Vertical	37	1.23	-	38.42	31.63	6.83	29.20
AV	5.4968G	107.49	Inf	-Inf	9.44	3	Vertical	37	1.23	-	98.05	31.79	6.85	29.20
PK	5.467G	66.95	68.20	-1.25	9.30	3	Vertical	37	1.23	-	57.65	31.67	6.83	29.20
PK	5.4966G	116.73	Inf	-Inf	9.44	3	Vertical	37	1.23	-	107.29	31.79	6.85	29.20

802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.458G	47.49	54.00	-6.51	9.26	3	Horizontal	67	1.10	-	38.23	31.63	6.83	29.20
AV	5.4978G	108.46	Inf	-Inf	9.44	3	Horizontal	67	1.10	-	99.02	31.79	6.85	29.20
PK	5.467G	65.48	68.20	-2.72	9.30	3	Horizontal	67	1.10	-	56.18	31.67	6.83	29.20
PK	5.5028G	117.31	Inf	-Inf	9.45	3	Horizontal	67	1.10	-	107.86	31.80	6.85	29.20

802.11a_Nss1,(6Mbps)_2TX

5500MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.003G	45.11	54.00	-8.89	18.99	3	Vertical	116	1.64	-	26.12	40.19	9.25	30.45
PK	11.00084G	56.98	74.00	-17.02	19.00	3	Vertical	116	1.64	-	37.98	40.20	9.25	30.45
PK	16.51254G	60.16	68.20	-8.04	19.69	3	Vertical	356	2.18	-	40.47	38.97	11.78	31.06

802.11a_Nss1,(6Mbps)_2TX

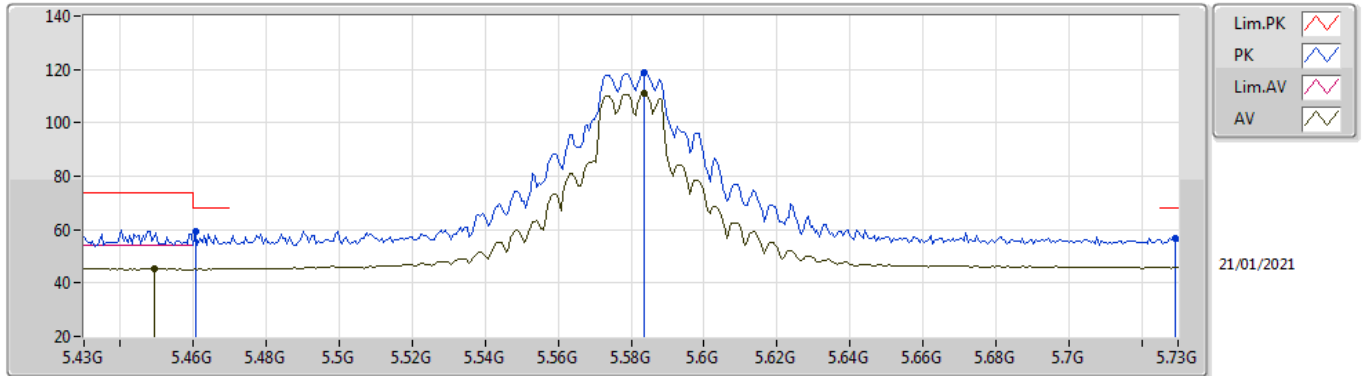
5500MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.00054G	45.59	54.00	-8.41	19.00	3	Horizontal	340	2.84	-	26.59	40.20	9.25	30.45
PK	10.9976G	57.45	74.00	-16.55	19.00	3	Horizontal	340	2.84	-	38.45	40.20	9.25	30.45
PK	16.49784G	60.06	68.20	-8.14	19.68	3	Horizontal	64	1.79	-	40.38	38.98	11.77	31.07

802.11a_Nss1,(6Mbps)_2TX

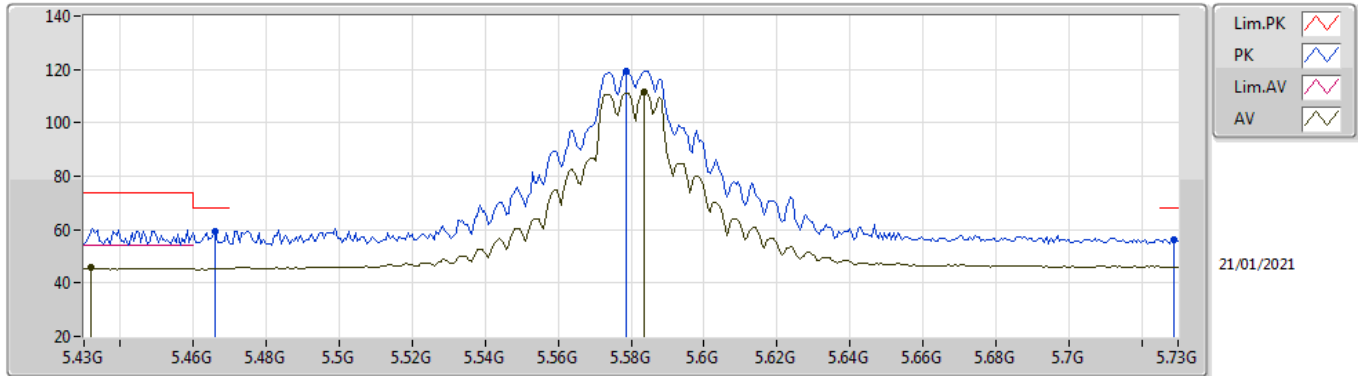
5580MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4492G	45.51	54.00	-8.49	9.22	3	Vertical	335	1.44	-	36.29	31.60	6.82	29.20
AV	5.5836G	110.95	Inf	-Inf	9.53	3	Vertical	335	1.44	-	101.42	31.87	6.89	29.23
PK	5.4606G	59.40	68.20	-8.80	9.27	3	Vertical	335	1.44	-	50.13	31.64	6.83	29.20
PK	5.5836G	118.66	Inf	-Inf	9.53	3	Vertical	335	1.44	-	109.13	31.87	6.89	29.23
PK	5.7294G	56.83	68.20	-11.37	9.64	3	Vertical	335	1.44	-	47.19	31.96	6.96	29.28

802.11a_Nss1,(6Mbps)_2TX

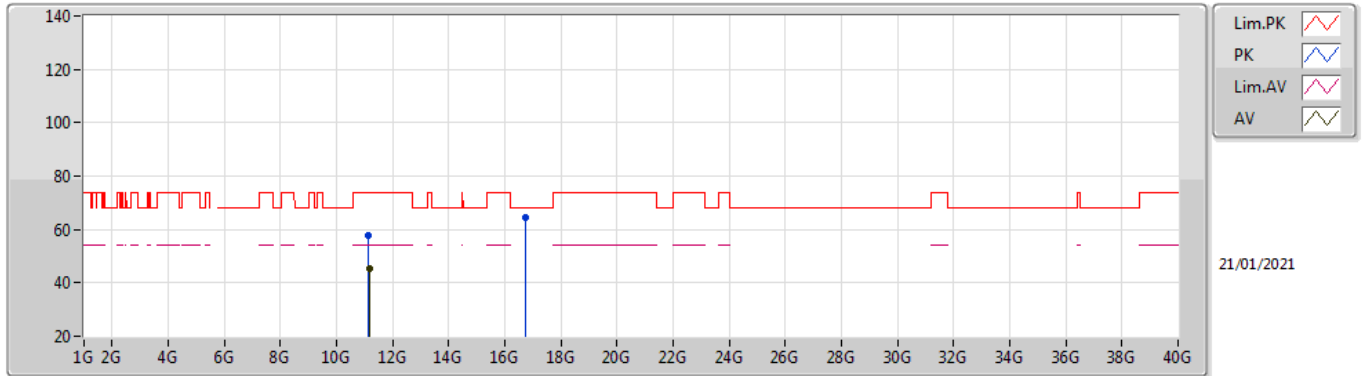
5580MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4318G	45.62	54.00	-8.38	9.18	3	Horizontal	63	1.41	-	36.44	31.56	6.82	29.20
AV	5.5836G	111.40	Inf	-Inf	9.53	3	Horizontal	63	1.41	-	101.87	31.87	6.89	29.23
PK	5.466G	59.26	68.20	-8.94	9.29	3	Horizontal	63	1.41	-	49.97	31.66	6.83	29.20
PK	5.5788G	119.36	Inf	-Inf	9.52	3	Horizontal	63	1.41	-	109.84	31.86	6.89	29.23
PK	5.7288G	56.12	68.20	-12.08	9.64	3	Horizontal	63	1.41	-	46.48	31.96	6.96	29.28

802.11a_Nss1,(6Mbps)_2TX

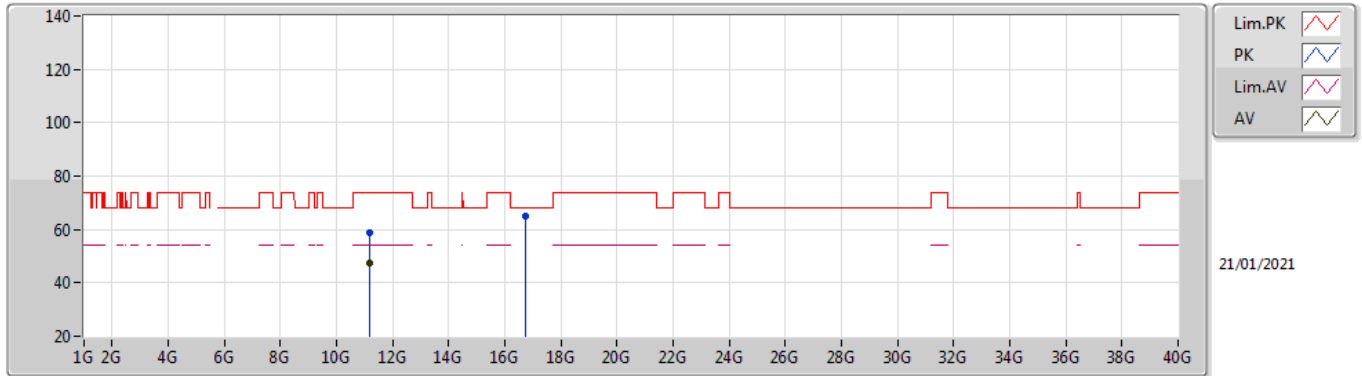
5580MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.16978G	45.29	54.00	-8.71	18.73	3	Vertical	0	1.72	-	26.56	39.83	9.33	30.43
PK	11.14884G	57.64	74.00	-16.36	18.74	3	Vertical	0	1.72	-	38.90	39.85	9.32	30.43
PK	16.73622G	64.70	68.20	-3.50	20.68	3	Vertical	333	1.51	-	44.02	39.73	11.90	30.95

802.11a_Nss1,(6Mbps)_2TX

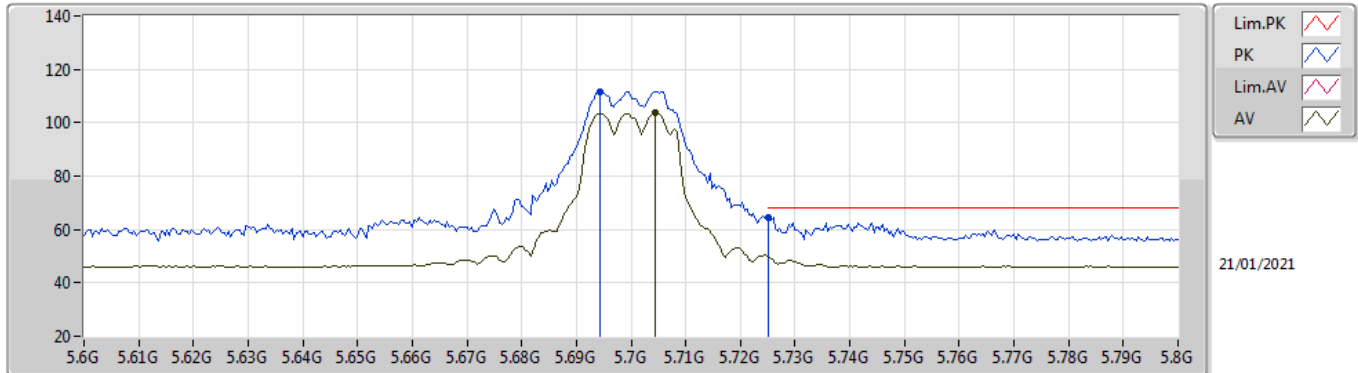
5580MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.15988G	47.27	54.00	-6.73	18.73	3	Horizontal	72	2.11	-	28.54	39.84	9.32	30.43
PK	11.16006G	59.02	74.00	-14.98	18.73	3	Horizontal	72	2.11	-	40.29	39.84	9.32	30.43
PK	16.74228G	65.12	68.20	-3.08	20.75	3	Horizontal	31	2.85	-	44.37	39.78	11.91	30.94

802.11a_Nss1,(6Mbps)_2TX

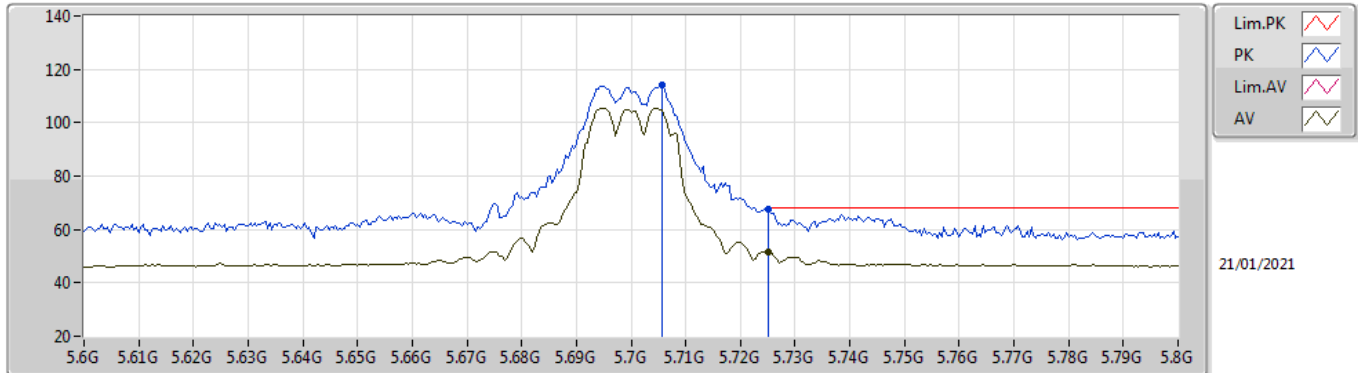
5700MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7044G	103.64	Inf	-Inf	9.59	3	Vertical	330	1.57	-	94.05	31.91	6.95	29.27
PK	5.6944G	111.73	Inf	-Inf	9.56	3	Vertical	330	1.57	-	102.17	31.88	6.95	29.27
PK	5.7252G	64.65	68.20	-3.55	9.63	3	Vertical	330	1.57	-	55.02	31.95	6.96	29.28

802.11a_Nss1,(6Mbps)_2TX

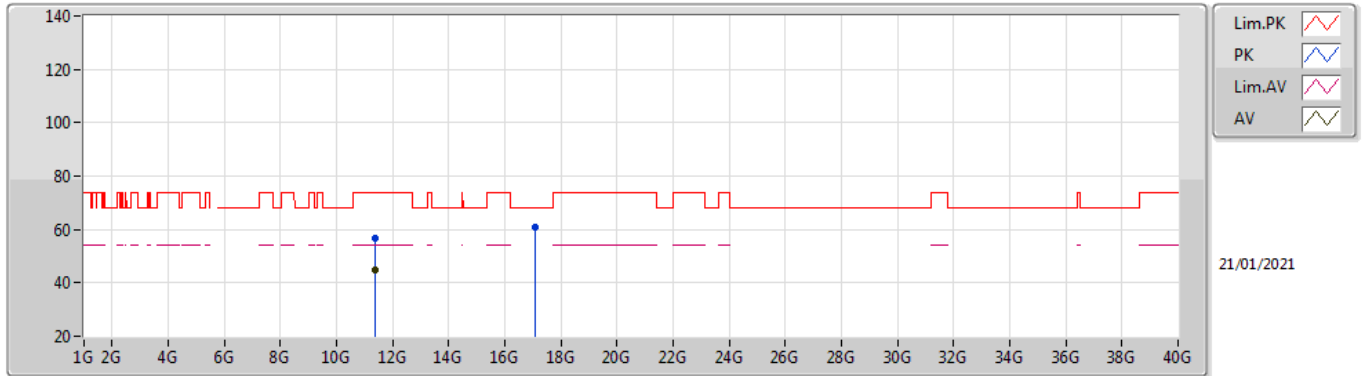
5700MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7252G	51.72	Inf	-Inf	9.63	3	Horizontal	62	1.87	-	42.09	31.95	6.96	29.28
PK	5.7056G	114.28	Inf	-Inf	9.59	3	Horizontal	62	1.87	-	104.69	31.91	6.95	29.27
PK	5.7252G	67.46	68.20	-0.74	9.63	3	Horizontal	62	1.87	-	57.83	31.95	6.96	29.28

802.11a_Nss1,(6Mbps)_2TX

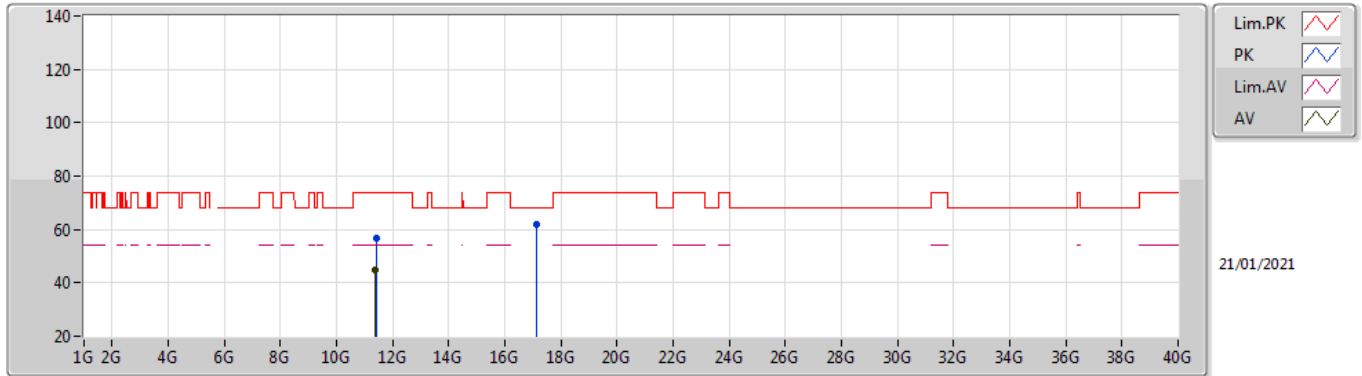
5700MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.39988G	45.08	54.00	-8.92	18.94	3	Vertical	215	1.30	-	26.14	39.90	9.43	30.39
PK	11.4G	56.95	74.00	-17.05	18.94	3	Vertical	215	1.30	-	38.01	39.90	9.43	30.39
PK	17.1006G	61.05	68.20	-7.15	21.63	3	Vertical	214	2.45	-	39.42	40.30	12.11	30.78

802.11a_Nss1,(6Mbps)_2TX

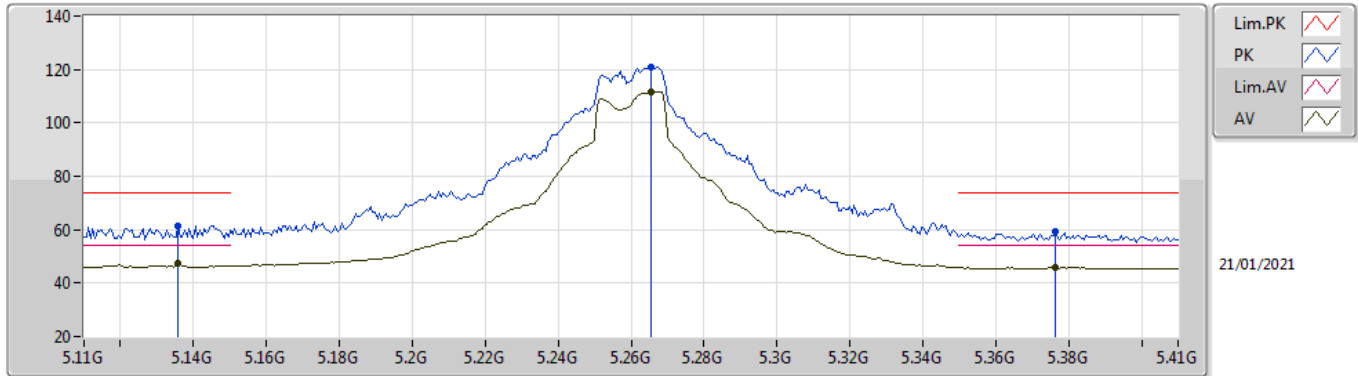
5700MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.3967G	45.07	54.00	-8.93	18.94	3	Horizontal	353	1.20	-	26.13	39.90	9.43	30.39
PK	11.41176G	56.82	74.00	-17.18	18.96	3	Horizontal	353	1.20	-	37.86	39.91	9.44	30.39
PK	17.1087G	61.95	68.20	-6.25	21.64	3	Horizontal	74	1.95	-	40.31	40.31	12.11	30.78

802.11ac VHT20_Nss1,(MCS0)_2TX

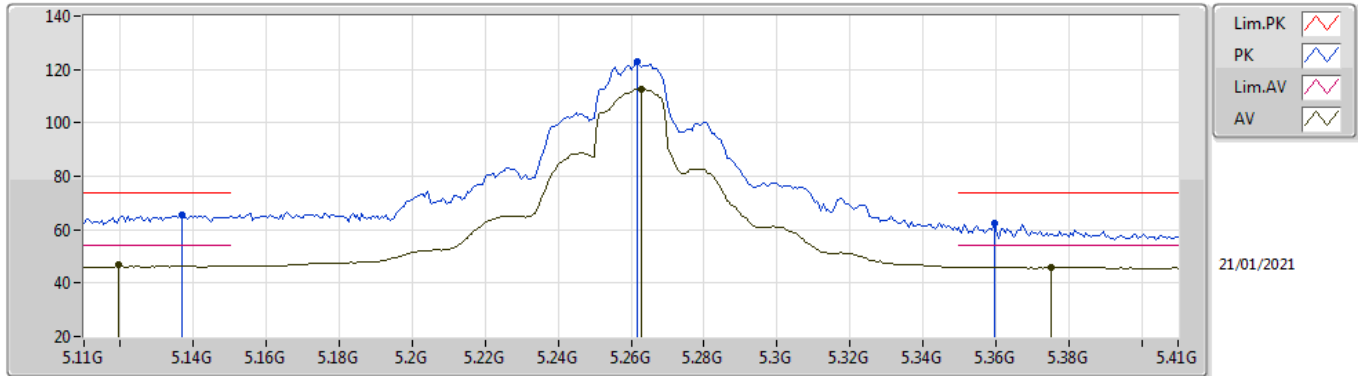
5260MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1358G	47.62	54.00	-6.38	9.56	3	Vertical	36	1.00	-	38.06	31.97	6.77	29.18
AV	5.2654G	111.69	Inf	-Inf	8.98	3	Vertical	36	1.00	-	102.71	31.37	6.80	29.19
AV	5.3764G	45.99	54.00	-8.01	8.92	3	Vertical	36	1.00	-	37.07	31.31	6.80	29.19
PK	5.1358G	61.62	74.00	-12.38	9.56	3	Vertical	36	1.00	-	52.06	31.97	6.77	29.18
PK	5.2654G	120.81	Inf	-Inf	8.98	3	Vertical	36	1.00	-	111.83	31.37	6.80	29.19
PK	5.3764G	59.19	74.00	-14.81	8.92	3	Vertical	36	1.00	-	50.27	31.31	6.80	29.19

802.11ac VHT20_Nss1,(MCS0)_2TX

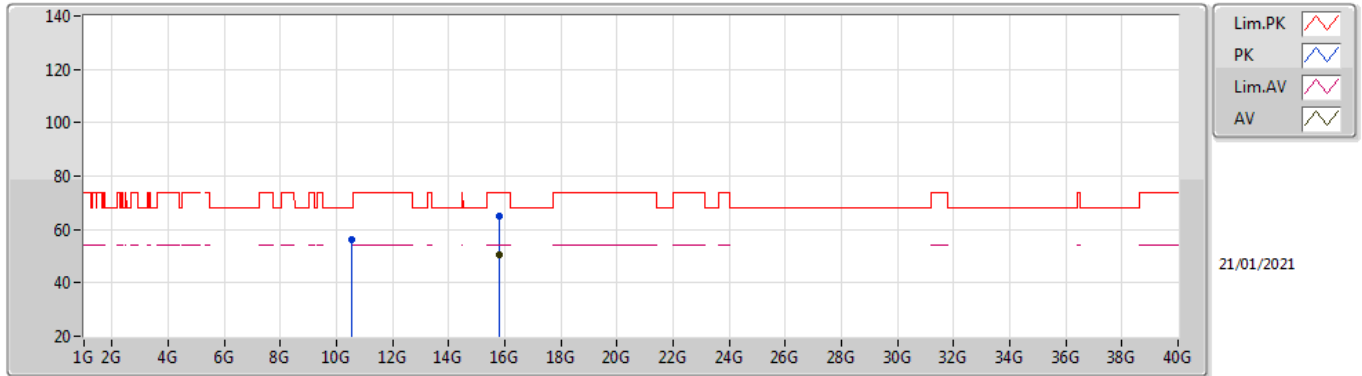
5260MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1196G	46.78	54.00	-7.22	9.52	3	Horizontal	14	2.12	-	37.26	31.94	6.76	29.18
AV	5.263G	112.72	Inf	-Inf	8.98	3	Horizontal	14	2.12	-	103.74	31.37	6.80	29.19
AV	5.3752G	45.98	54.00	-8.02	8.91	3	Horizontal	14	2.12	-	37.07	31.30	6.80	29.19
PK	5.137G	65.38	74.00	-8.62	9.56	3	Horizontal	14	2.12	-	55.82	31.97	6.77	29.18
PK	5.2618G	122.98	Inf	-Inf	8.99	3	Horizontal	14	2.12	-	113.99	31.38	6.80	29.19
PK	5.3596G	62.17	74.00	-11.83	8.79	3	Horizontal	14	2.12	-	53.38	31.18	6.80	29.19

802.11ac VHT20_Nss1,(MCS0)_2TX

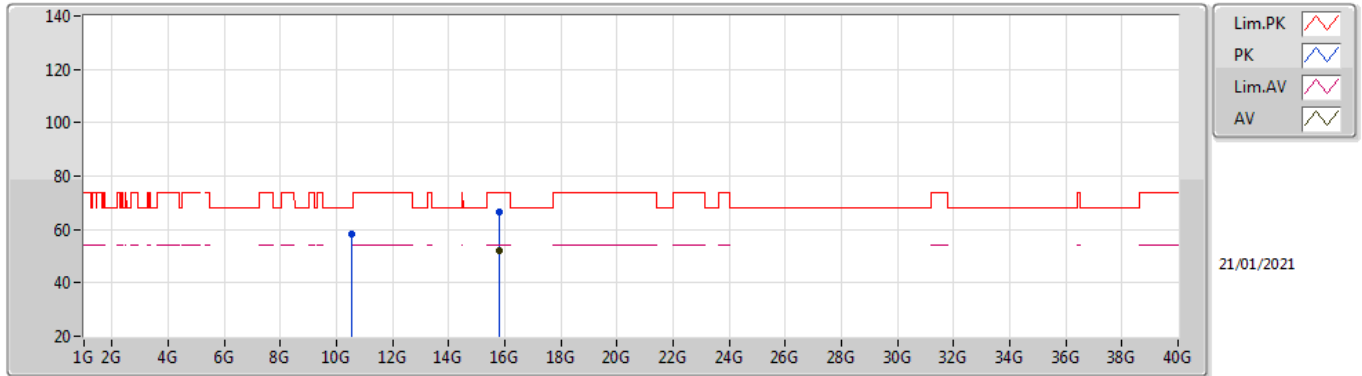
5260MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.78384G	50.32	54.00	-3.68	17.87	3	Vertical	1	2.39	-	32.45	37.53	11.40	31.06
PK	10.52616G	56.44	68.20	-11.76	18.38	3	Vertical	358	1.62	-	38.06	39.73	9.04	30.39
PK	15.78648G	64.75	74.00	-9.25	17.87	3	Vertical	1	2.39	-	46.88	37.53	11.40	31.06

802.11ac VHT20_Nss1,(MCS0)_2TX

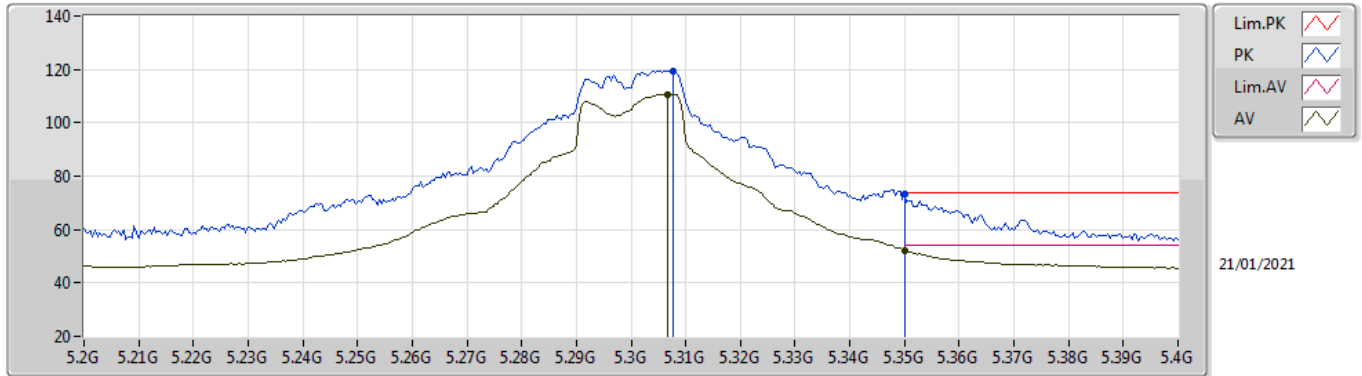
5260MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.78376G	51.89	54.00	-2.11	17.87	3	Horizontal	356	2.82	-	34.02	37.53	11.40	31.06
PK	10.52G	58.04	68.20	-10.16	18.36	3	Horizontal	23	1.50	-	39.68	39.72	9.03	30.39
PK	15.78656G	66.81	74.00	-7.19	17.87	3	Horizontal	356	2.82	-	48.94	37.53	11.40	31.06

802.11ac VHT20_Nss1,(MCS0)_2TX

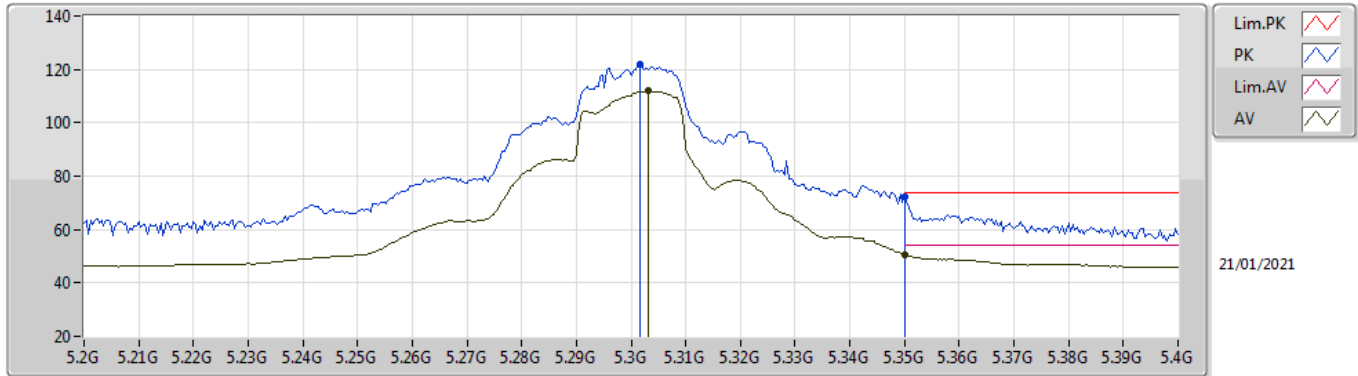
5300MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.3068G	110.72	Inf	-Inf	8.88	3	Vertical	40	1.00	-	101.84	31.27	6.80	29.19
AV	5.35G	52.32	54.00	-1.68	8.71	3	Vertical	40	1.00	-	43.61	31.10	6.80	29.19
PK	5.3076G	119.45	Inf	-Inf	8.88	3	Vertical	40	1.00	-	110.57	31.27	6.80	29.19
PK	5.35G	73.24	74.00	-0.76	8.71	3	Vertical	40	1.00	-	64.53	31.10	6.80	29.19

802.11ac VHT20_Nss1,(MCS0)_2TX

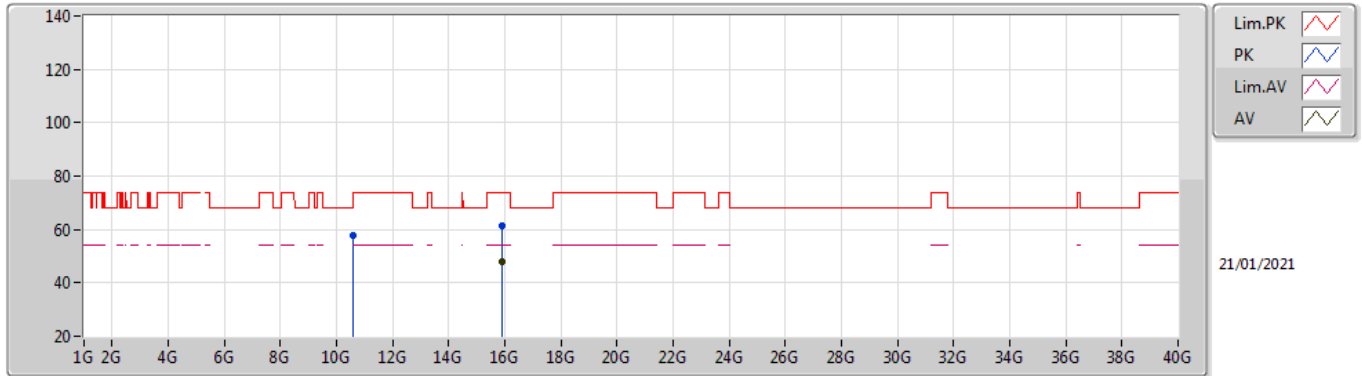
5300MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.3032G	111.92	Inf	-Inf	8.90	3	Horizontal	15	2.23	-	103.02	31.29	6.80	29.19
AV	5.35G	50.58	54.00	-3.42	8.71	3	Horizontal	15	2.23	-	41.87	31.10	6.80	29.19
PK	5.3016G	122.02	Inf	-Inf	8.90	3	Horizontal	15	2.23	-	113.12	31.29	6.80	29.19
PK	5.35G	72.04	74.00	-1.96	8.71	3	Horizontal	15	2.23	-	63.33	31.10	6.80	29.19

802.11ac VHT20_Nss1,(MCS0)_2TX

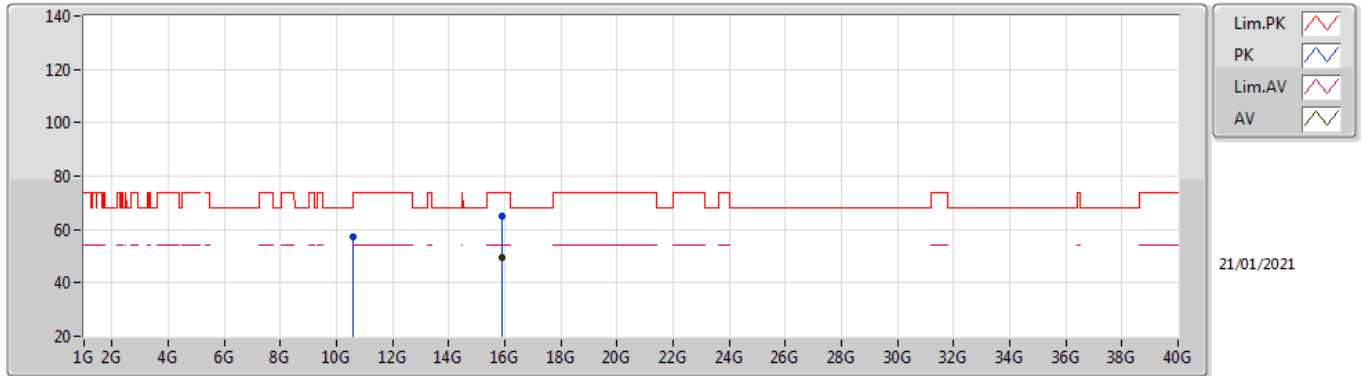
5300MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.90384G	48.06	54.00	-5.94	17.58	3	Vertical	360	2.43	-	30.48	37.19	11.46	31.07
PK	10.59984G	57.59	68.20	-10.61	18.47	3	Vertical	253	1.86	-	39.12	39.80	9.07	30.40
PK	15.9012G	61.56	74.00	-12.44	17.59	3	Vertical	360	2.43	-	43.97	37.20	11.46	31.07

802.11ac VHT20_Nss1,(MCS0)_2TX

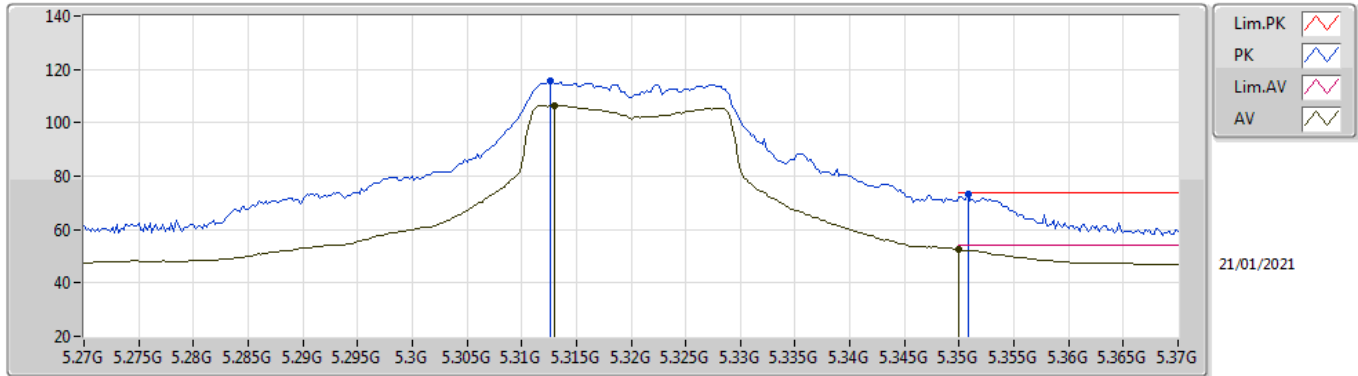
5300MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.90392G	49.31	54.00	-4.69	17.58	3	Horizontal	342	1.92	-	31.73	37.19	11.46	31.07
PK	10.5999G	57.22	68.20	-10.98	18.47	3	Horizontal	23	1.47	-	38.75	39.80	9.07	30.40
PK	15.9064G	65.01	74.00	-8.99	17.58	3	Horizontal	342	1.92	-	47.43	37.19	11.46	31.07

802.11ac VHT20_Nss1,(MCS0)_2TX

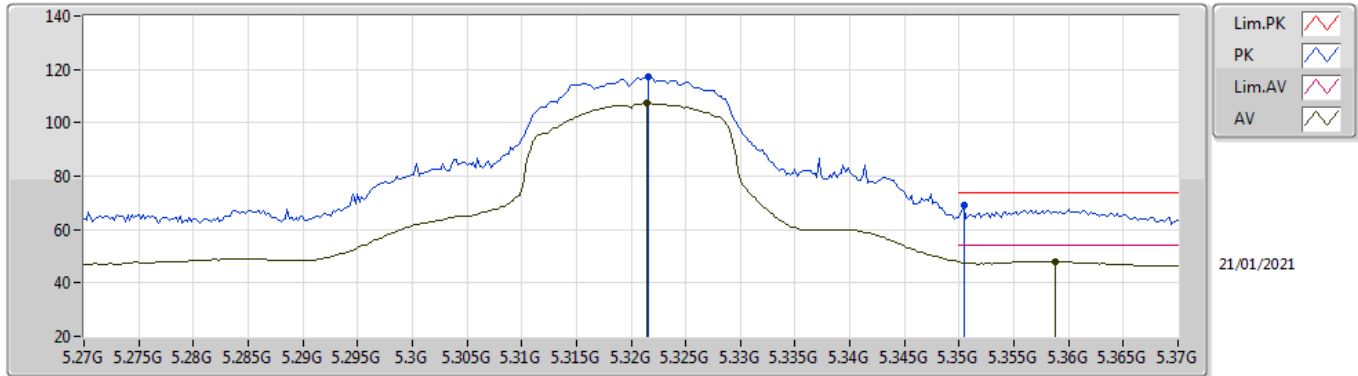
5320MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.313G	106.40	Inf	-Inf	8.86	3	Vertical	33	1.38	-	97.54	31.25	6.80	29.19
AV	5.35G	52.48	54.00	-1.52	8.71	3	Vertical	33	1.38	-	43.77	31.10	6.80	29.19
PK	5.3126G	115.50	Inf	-Inf	8.86	3	Vertical	33	1.38	-	106.64	31.25	6.80	29.19
PK	5.3508G	73.31	74.00	-0.69	8.72	3	Vertical	33	1.38	-	64.59	31.11	6.80	29.19

802.11ac VHT20_Nss1,(MCS0)_2TX

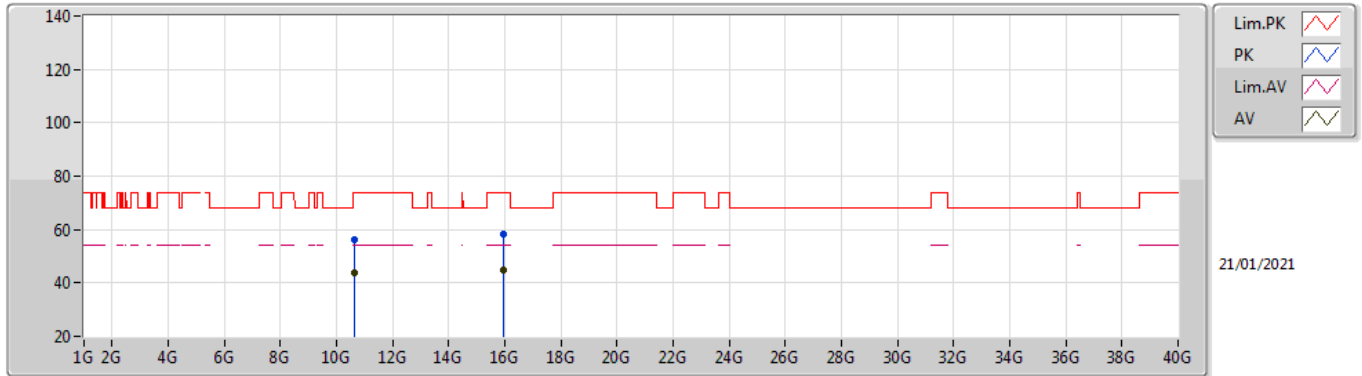
5320MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.3214G	107.28	Inf	-Inf	8.82	3	Horizontal	27	1.90	-	98.46	31.21	6.80	29.19
AV	5.3588G	48.05	54.00	-5.95	8.78	3	Horizontal	27	1.90	-	39.27	31.17	6.80	29.19
PK	5.3216G	117.50	Inf	-Inf	8.82	3	Horizontal	27	1.90	-	108.68	31.21	6.80	29.19
PK	5.3504G	68.92	74.00	-5.08	8.71	3	Horizontal	27	1.90	-	60.21	31.10	6.80	29.19

802.11ac VHT20_Nss1,(MCS0)_2TX

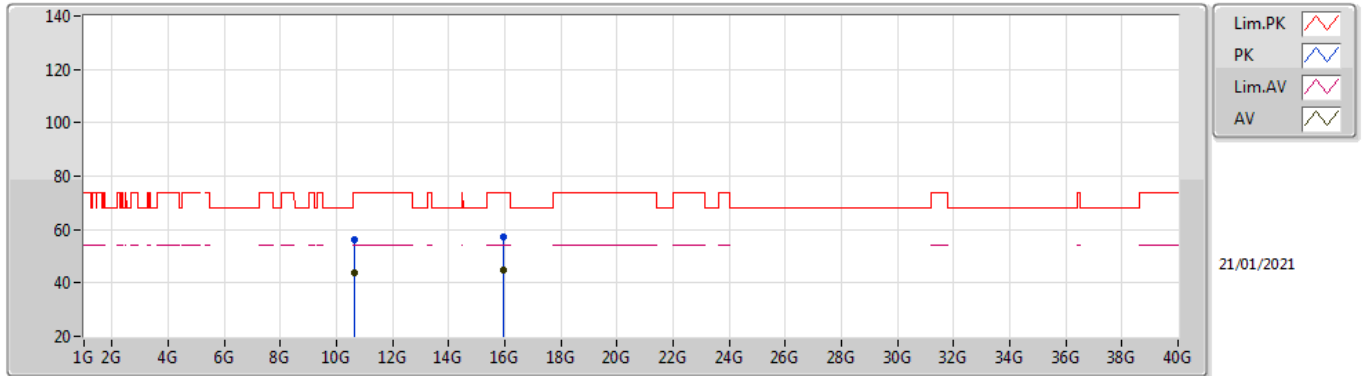
5320MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	10.6399G	43.69	54.00	-10.31	18.44	3	Vertical	28	1.22	-	25.25	39.76	9.09	30.41
AV	15.96024G	44.72	54.00	-9.28	17.48	3	Vertical	141	1.35	-	27.24	37.08	11.48	31.08
PK	10.64418G	56.07	74.00	-17.93	18.44	3	Vertical	28	1.22	-	37.63	39.76	9.09	30.41
PK	15.96034G	58.23	74.00	-15.77	17.48	3	Vertical	141	1.35	-	40.75	37.08	11.48	31.08

802.11ac VHT20_Nss1,(MCS0)_2TX

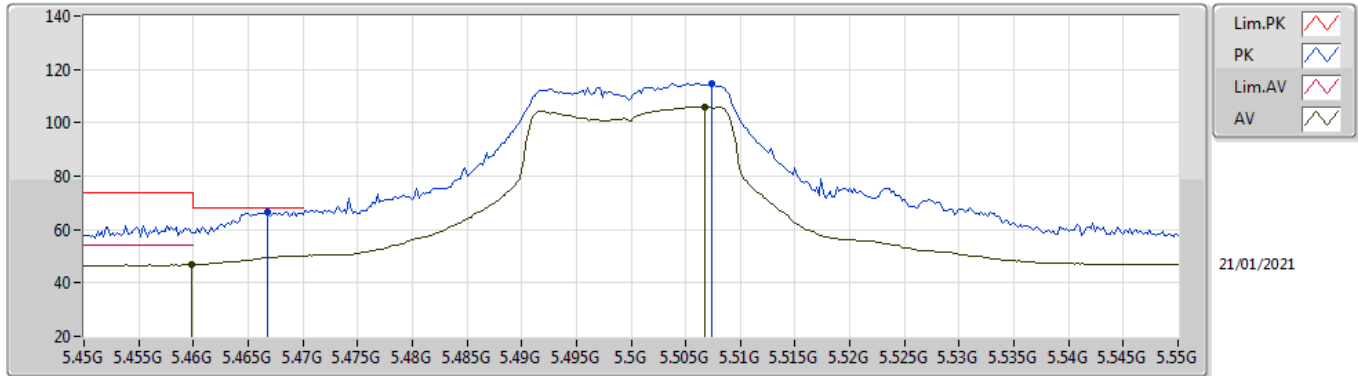
5320MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	10.63768G	43.57	54.00	-10.43	18.44	3	Horizontal	267	1.62	-	25.13	39.76	9.09	30.41
AV	15.96166G	44.70	54.00	-9.30	17.48	3	Horizontal	95	1.25	-	27.22	37.08	11.48	31.08
PK	10.6445G	56.20	74.00	-17.80	18.44	3	Horizontal	267	1.62	-	37.76	39.76	9.09	30.41
PK	15.95874G	57.35	74.00	-16.65	17.48	3	Horizontal	95	1.25	-	39.87	37.08	11.48	31.08

802.11ac VHT20_Nss1,(MCS0)_2TX

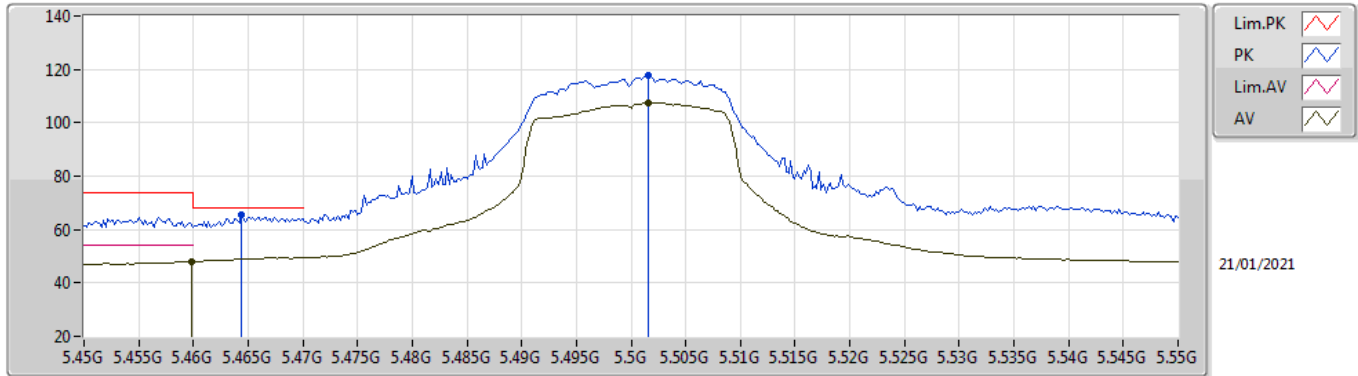
5500MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4598G	46.91	54.00	-7.09	9.27	3	Vertical	35	1.17	-	37.64	31.64	6.83	29.20
AV	5.5068G	105.86	Inf	-Inf	9.45	3	Vertical	35	1.17	-	96.41	31.80	6.85	29.20
PK	5.4668G	66.68	68.20	-1.52	9.30	3	Vertical	35	1.17	-	57.38	31.67	6.83	29.20
PK	5.5074G	114.86	Inf	-Inf	9.45	3	Vertical	35	1.17	-	105.41	31.80	6.85	29.20

802.11ac VHT20_Nss1,(MCS0)_2TX

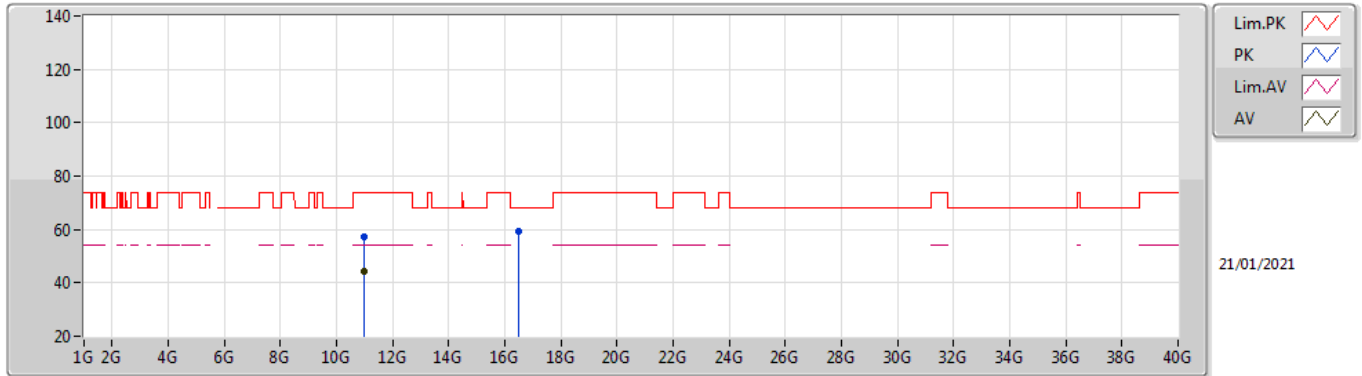
5500MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4598G	47.97	54.00	-6.03	9.27	3	Horizontal	0	2.40	-	38.70	31.64	6.83	29.20
AV	5.5016G	107.34	Inf	-Inf	9.45	3	Horizontal	0	2.40	-	97.89	31.80	6.85	29.20
PK	5.4644G	65.43	68.20	-2.77	9.29	3	Horizontal	0	2.40	-	56.14	31.66	6.83	29.20
PK	5.5016G	117.63	Inf	-Inf	9.45	3	Horizontal	0	2.40	-	108.18	31.80	6.85	29.20

802.11ac VHT20_Nss1,(MCS0)_2TX

5500MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.00768G	44.49	54.00	-9.51	18.98	3	Vertical	17	2.09	-	25.51	40.18	9.25	30.45
PK	10.99632G	57.00	74.00	-17.00	18.99	3	Vertical	17	2.09	-	38.01	40.19	9.25	30.45
PK	16.50944G	59.54	68.20	-8.66	19.69	3	Vertical	294	2.14	-	39.85	38.98	11.78	31.07

802.11ac VHT20_Nss1,(MCS0)_2TX

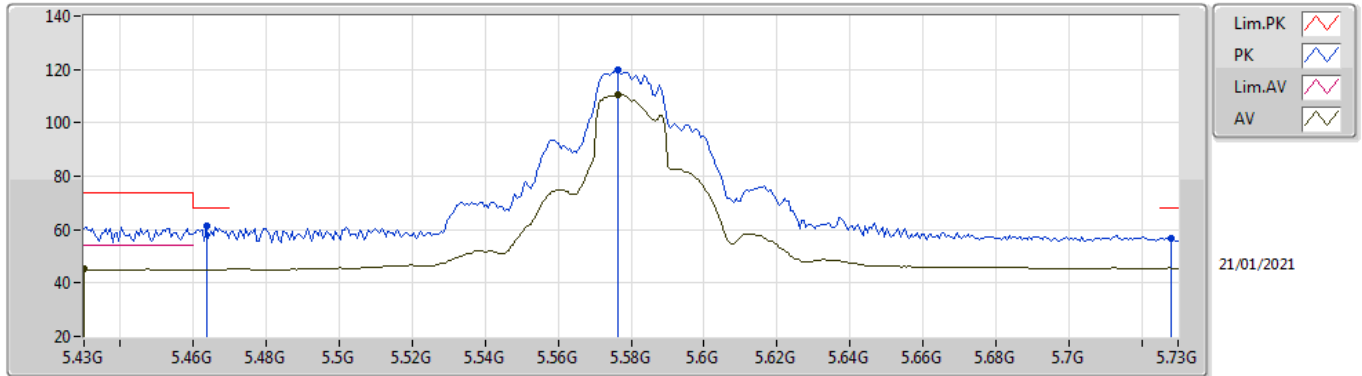
5500MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	10.99992G	44.84	54.00	-9.16	19.00	3	Horizontal	204	1.81	-	25.84	40.20	9.25	30.45
PK	11.00984G	58.57	74.00	-15.43	18.97	3	Horizontal	204	1.81	-	39.60	40.17	9.25	30.45
PK	16.5136G	59.73	68.20	-8.47	19.69	3	Horizontal	245	3.00	-	40.04	38.97	11.78	31.06

802.11ac VHT20_Nss1,(MCS0)_2TX

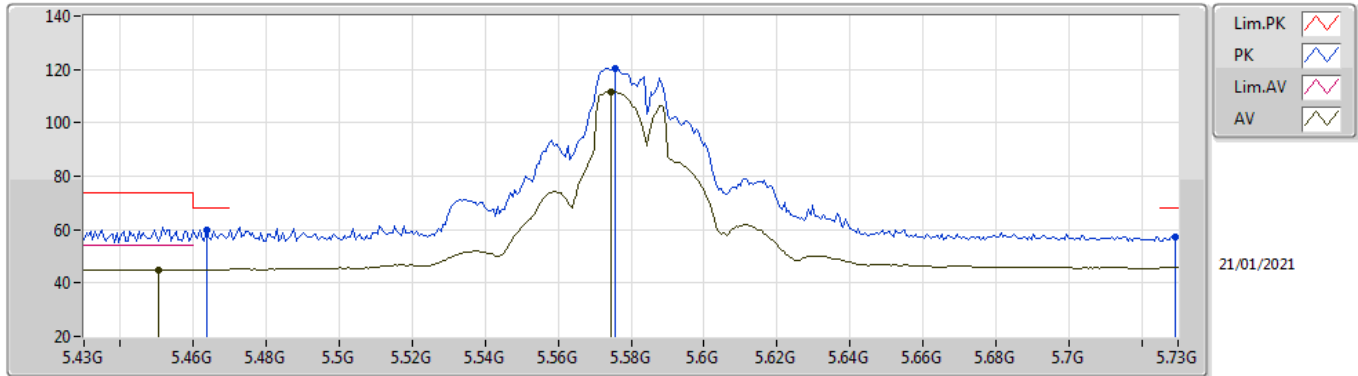
5580MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.43G	45.14	54.00	-8.86	9.17	3	Vertical	331	1.72	-	35.97	31.56	6.81	29.20
AV	5.5764G	110.42	Inf	-Inf	9.51	3	Vertical	331	1.72	-	100.91	31.85	6.89	29.23
PK	5.4636G	61.26	68.20	-6.94	9.28	3	Vertical	331	1.72	-	51.98	31.65	6.83	29.20
PK	5.5764G	119.76	Inf	-Inf	9.51	3	Vertical	331	1.72	-	110.25	31.85	6.89	29.23
PK	5.7282G	56.98	68.20	-11.22	9.64	3	Vertical	331	1.72	-	47.34	31.96	6.96	29.28

802.11ac VHT20_Nss1,(MCS0)_2TX

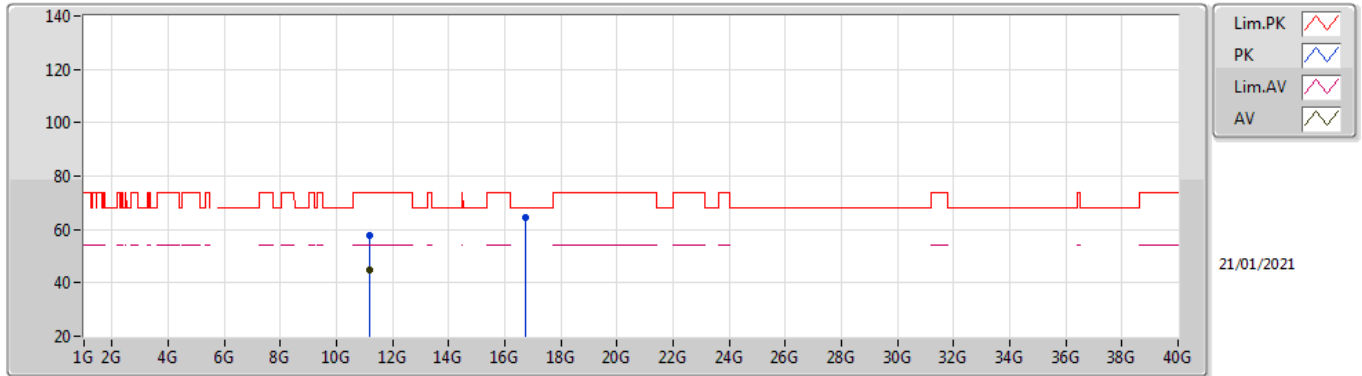
5580MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4504G	45.04	54.00	-8.96	9.23	3	Horizontal	63	1.33	-	35.81	31.60	6.83	29.20
AV	5.5746G	111.50	Inf	-Inf	9.51	3	Horizontal	63	1.33	-	101.99	31.85	6.89	29.23
PK	5.4636G	60.01	68.20	-8.19	9.28	3	Horizontal	63	1.33	-	50.73	31.65	6.83	29.20
PK	5.5758G	120.40	Inf	-Inf	9.51	3	Horizontal	63	1.33	-	110.89	31.85	6.89	29.23
PK	5.7294G	57.35	68.20	-10.85	9.64	3	Horizontal	63	1.33	-	47.71	31.96	6.96	29.28

802.11ac VHT20_Nss1,(MCS0)_2TX

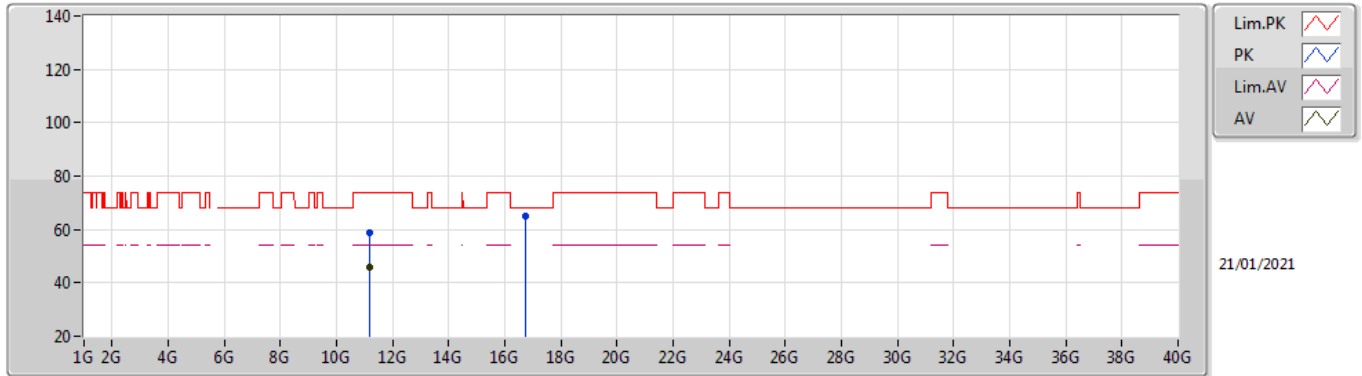
5580MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.1568G	45.05	54.00	-8.95	18.73	3	Vertical	47	1.43	-	26.32	39.84	9.32	30.43
PK	11.16376G	57.95	74.00	-16.05	18.73	3	Vertical	47	1.43	-	39.22	39.84	9.32	30.43
PK	16.74064G	64.33	68.20	-3.87	20.74	3	Vertical	334	1.50	-	43.59	39.77	11.91	30.94

802.11ac VHT20_Nss1,(MCS0)_2TX

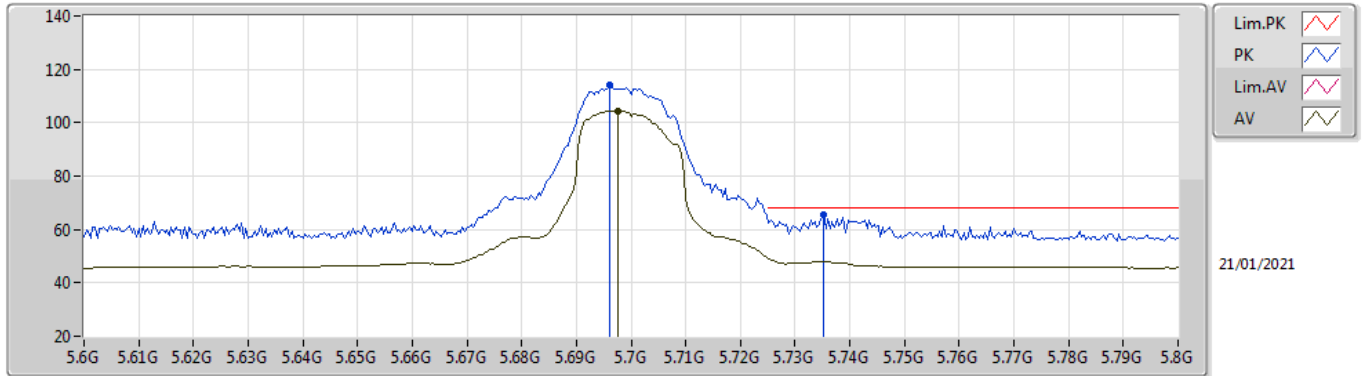
5580MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.15968G	45.91	54.00	-8.09	18.73	3	Horizontal	25	2.10	-	27.18	39.84	9.32	30.43
PK	11.16184G	58.91	74.00	-15.09	18.73	3	Horizontal	25	2.10	-	40.18	39.84	9.32	30.43
PK	16.75336G	64.86	68.20	-3.34	20.85	3	Horizontal	33	2.85	-	44.01	39.88	11.91	30.94

802.11ac VHT20_Nss1,(MCS0)_2TX

5700MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.6976G	104.50	Inf	-Inf	9.57	3	Vertical	328	1.49	-	94.93	31.89	6.95	29.27
PK	5.696G	114.24	Inf	-Inf	9.56	3	Vertical	328	1.49	-	104.68	31.88	6.95	29.27
PK	5.7352G	65.47	68.20	-2.73	9.66	3	Vertical	328	1.49	-	55.81	31.97	6.97	29.28