

FCC Test Report

FCC ID : YL6VDB770
Equipment : Video Doorbell
Brand Name : Alarm.com
Model Name : ADC-VDB770
Applicant : Alarm.com Incorporated
8281 Greensboro Drive Suite 100 , Tysons, VA 22102 , USA
Manufacturer 1 : Chicony Electronics (Dong Guan) Co.,Ltd.
San Zhong Guan Li Qu, Qingxi Town, Dongguan City
Guangdong 523651 China
Manufacturer 2 : Chicony Electronics (Thailand) Co.,Ltd.
82 Moo 4 T. Takham A. Bangpakong, Chachoengsao 24130
Standard : 47 CFR FCC Part 15.407

The product was received on Jul. 30, 2019, and testing was started from Aug. 08, 2019 and completed on Dec. 13, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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PHOTOGRAPHS OF EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FR962620AN	01	Initial issue of report	Aug. 12, 2020



Summary of Test Result

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

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

Reviewed by: Sam Tsai

Report Producer: Yunha Liou



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX



Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Weison	-	dipole	I-PEX
2	Weison	-	dipole	I-PEX

Ant.	Port	Gain (dBi)					
		2.4G	5G				BT
			U-NII-1	U-NII-2A	U-NII-2C	U-NII-3	
1	1	0.86	1.48	1.11	1.90	1.90	0.86
2	2	1.76	1.60	1.83	1.98	1.50	-

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

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

For BT function:

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

Ant. 1 (port 1) could transmit/receive.

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.94	0.27	1.428m	1k
802.11ac VHT20	0.93	0.32	1.344m	1k
802.11ac VHT40	0.871	0.6	668.438u	3k
802.11ac VHT80	0.771	1.13	332.5u	10k

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

1.2 Testing Applied Standards

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

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013
- ◆ KDB 789033 D02 v02r01
- ◆ KDB 662911 D01 v02r01
- ◆ KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location		
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.		
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) TEL : 886-3-656-9065 FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.		
<input checked="" type="checkbox"/>	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
AC Conduction	CO04-HY	Edward	22.3~26.2°C / 51.8~70.1%	23/Sep/2019
RF Conducted	TH07-HY	Alan	23.5~25.6C / 65~69%	08/Aug/2019~ 12/Dec/2019
Radiated	03CH09-HY	Edward	21.2~22.7°C / 56.2~61.2%	06/Aug/2019~ 13/Dec/2019
	03CH03-HY	Jeff	21.0~23.8°C / 49~68%	06/Aug/2019~ 13/Dec/2019

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	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

Test Software	CMD
---------------	-----

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	88
5200MHz	88
5240MHz	88
5260MHz	88
5300MHz	88
5320MHz	88
5500MHz	72
5580MHz	88
5700MHz	67
5720MHz Straddle 5.47-5.725GHz	88
5720MHz Straddle 5.725-5.85GHz	88
5745MHz	88
5785MHz	88
5825MHz	88
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	88
5200MHz	88
5240MHz	88
5260MHz	88
5300MHz	88
5320MHz	88
5500MHz	72
5580MHz	88






Mode	Power Setting
5700MHz	65
5720MHz Straddle 5.47-5.725GHz	88
5720MHz Straddle 5.725-5.85GHz	88
5745MHz	88
5785MHz	88
5825MHz	88
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	50
5230MHz	88
5270MHz	88
5310MHz	56
5510MHz	58
5550MHz	88
5670MHz	88
5710MHz Straddle 5.47-5.725GHz	88
5710MHz Straddle 5.725-5.85GHz	88
5755MHz	88
5795MHz	88
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	53
5290MHz	57
5530MHz	55
5610MHz	88
5690MHz Straddle 5.47-5.725GHz	88
5690MHz Straddle 5.725-5.85GHz	88
5775MHz	88

2.3 The Worst Case Measurement Configuration

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

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

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



2.4 Support Equipment

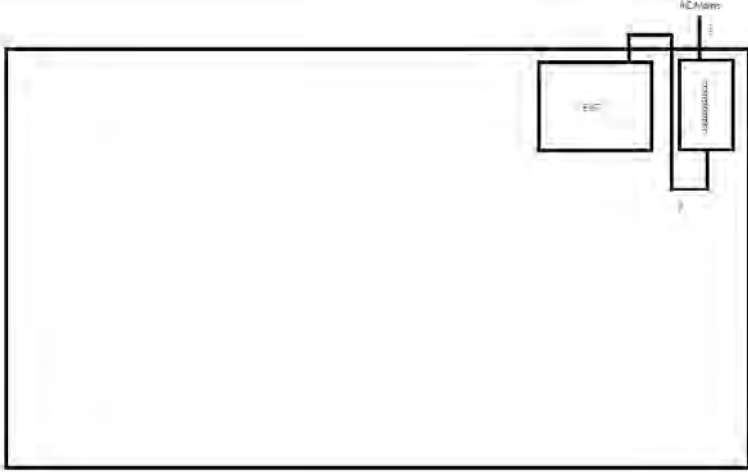
Support Equipment – AC Conduction / Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Power Cable	Volex	V1625	-	Note 1
2	Transformer	TRIAD	VPL24-11000 C	-	-
3	AC Power Cable	-	-	-	Note 1

Note 1 : No.1, 3 was provided by customer.

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

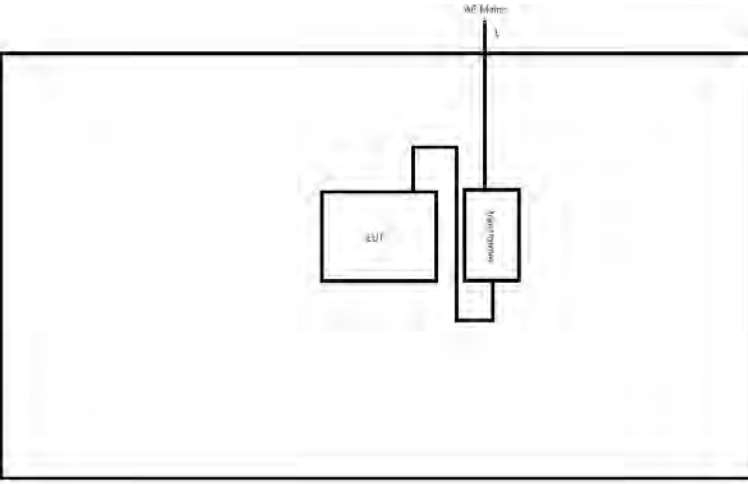
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	2.0	-
2	Power Cable	No	1.0	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	2.0	-
2	Power Cable	No	1.0	-



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

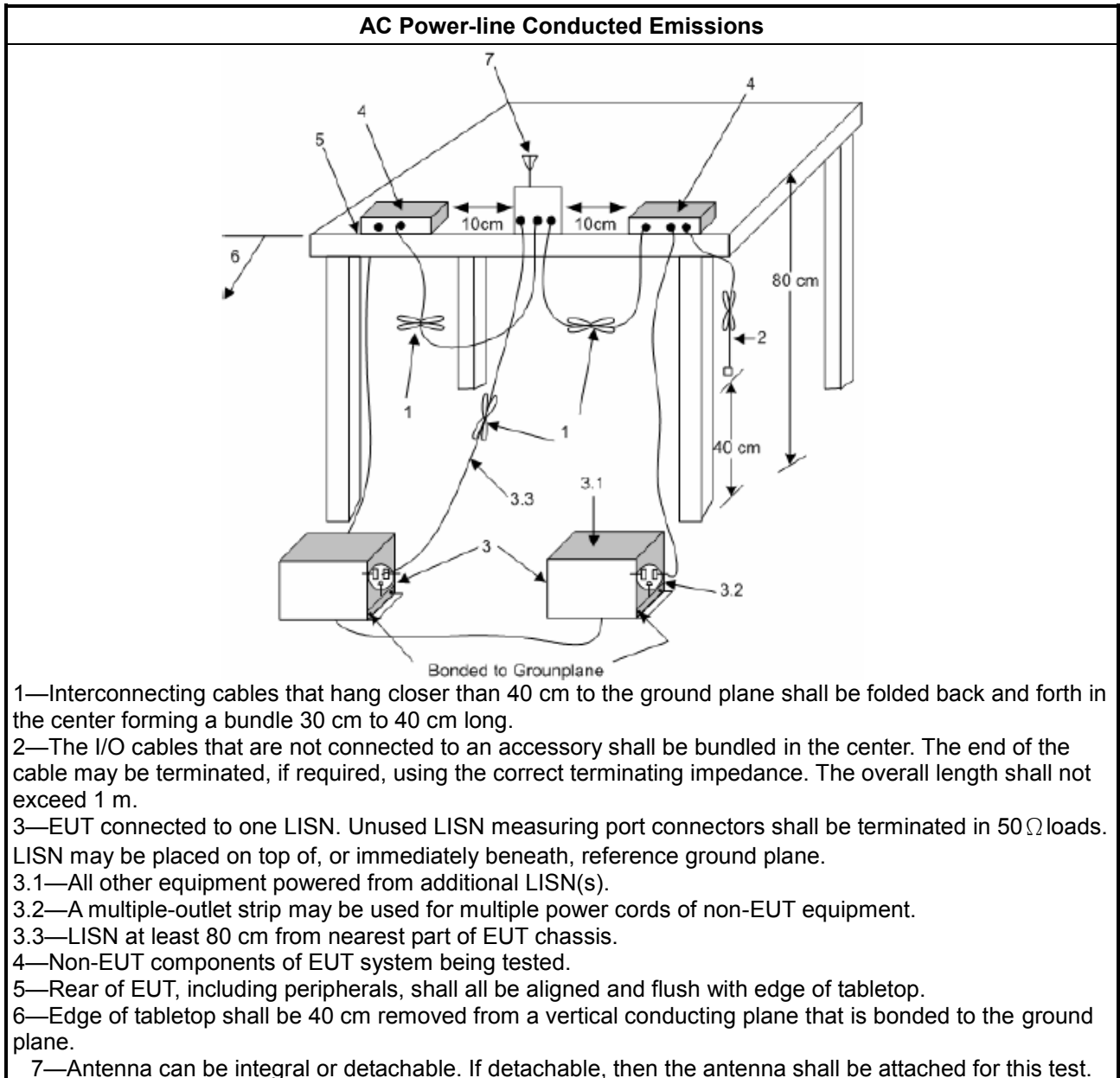
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

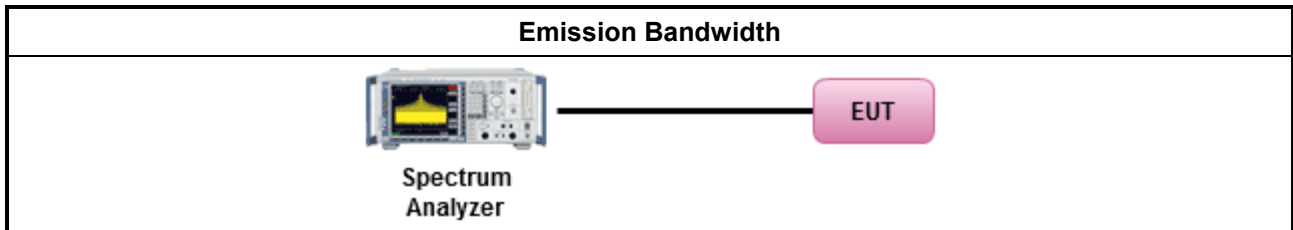
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> ▪ Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125mW$ [21dBm] ▪ 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 $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

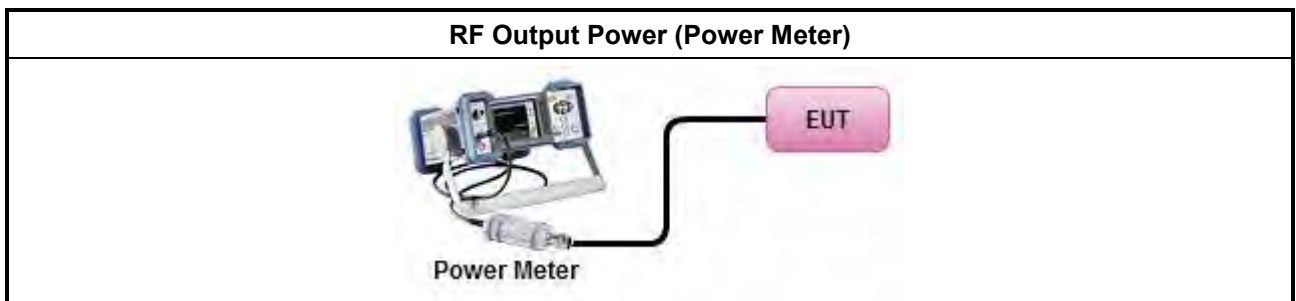
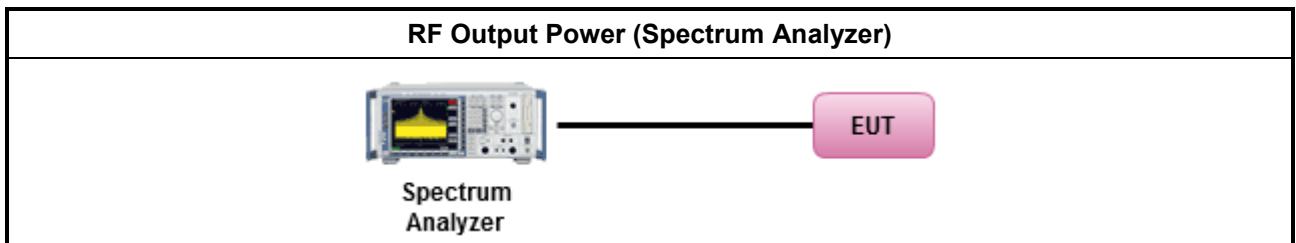
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Maximum Conducted Output Power 	
	Duty cycle \geq 98%
<input type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $<$ 98%
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter and average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method PM (using an RF average power meter).
<ul style="list-style-type: none"> For conducted measurement. 	
	<ul style="list-style-type: none"> If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	<ul style="list-style-type: none"> If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

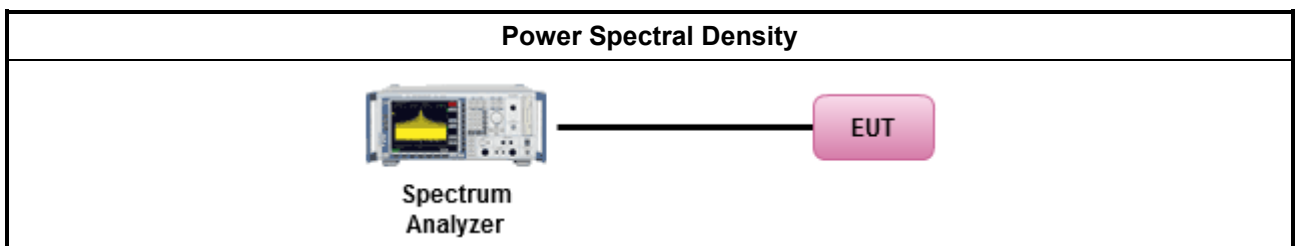
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: 	
<input type="checkbox"/>	Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
Duty cycle ≥ 98%	
<input type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
Duty cycle < 98%	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: 	
	<ul style="list-style-type: none"> ▪ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
	<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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).

3.5.2 Measuring Instruments

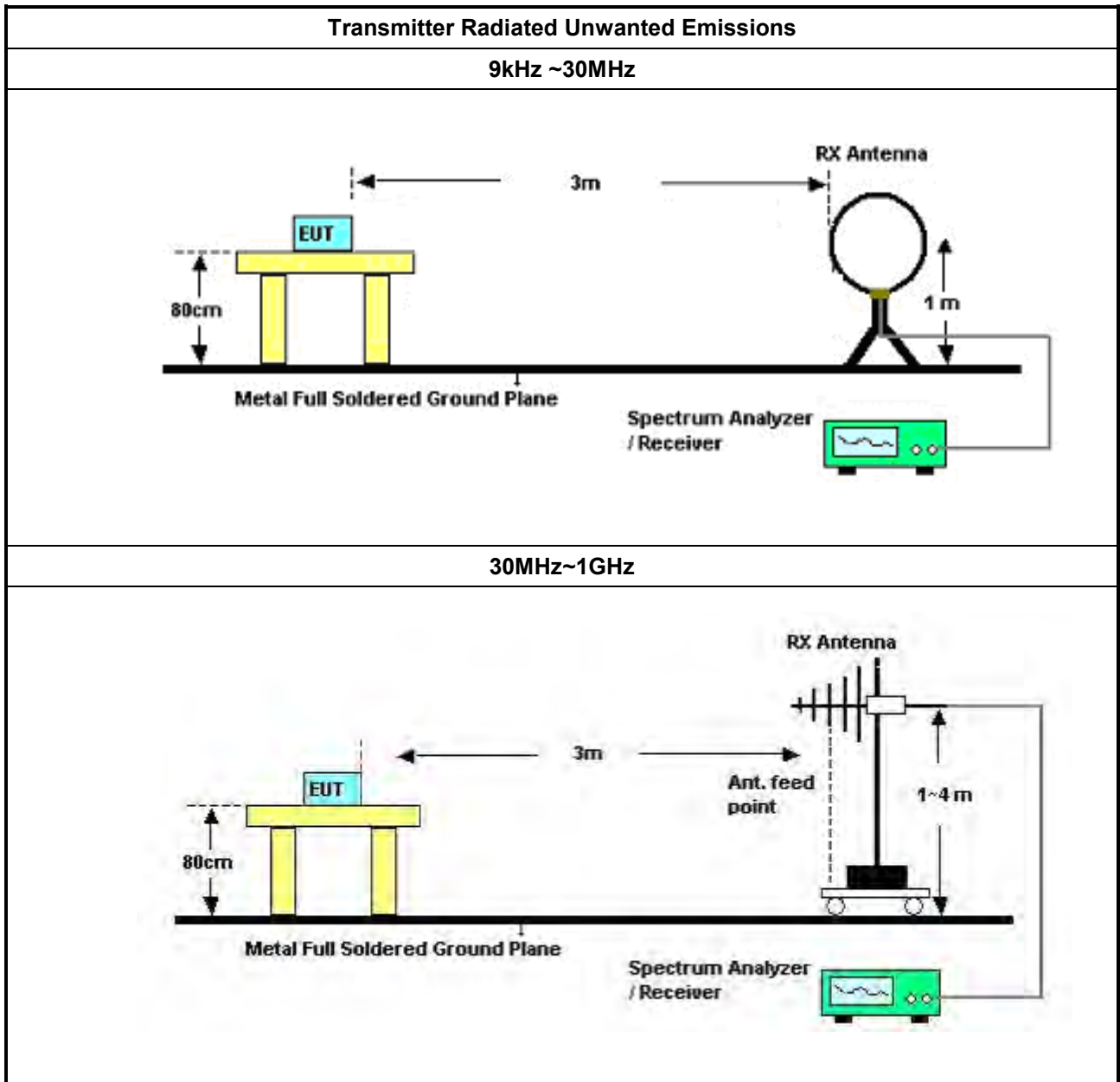
Refer a test equipment and calibration data table in this test report.

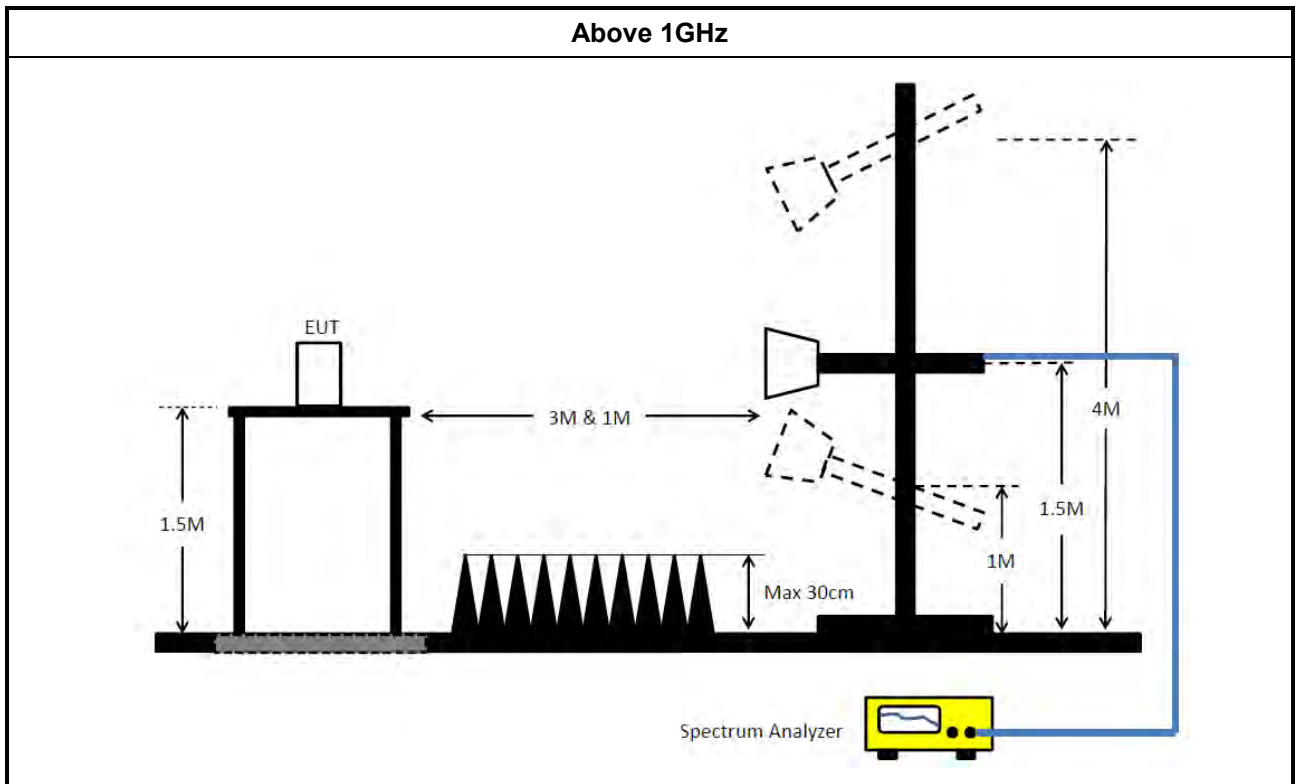
3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). 	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	<ul style="list-style-type: none"> ▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
<input checked="" type="checkbox"/>	Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For radiated measurement. 	
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
<ul style="list-style-type: none"> ▪ The any unwanted emissions level shall not exceed the fundamental emission level. 	
<ul style="list-style-type: none"> ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. 	

<ul style="list-style-type: none"> ▪ Use the following spectrum analyzer settings: 	
<input type="checkbox"/>	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
<input type="checkbox"/>	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
<ul style="list-style-type: none"> ▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification. 	
<input type="checkbox"/>	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.
<input type="checkbox"/>	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

Test Setup





3.5.4 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.

3.5.5 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	12/Sep/2019	11/Sep/2020
AC POWER	APC	AFC-11005G	F310050055	47Hz ~ 63Hz 5 ~ 300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	12/Oct/2018	11/Oct/2019

NCR: Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz ~ 40GHz	13/Mar/2019	12/Mar/2020
Pulse Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	14/Mar/2019	13/Mar/2020
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	14/Mar/2019	13/Mar/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz ~ 40GHz	12/Nov/2018	10/Nov/2020



Instrument for Radiated Test (03CH09-HY)

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	22/Apr/2019	21/Apr/2020
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	13/Jun/2019	12/Jun/2020
Microwave System Prempplier	Agilent	8449B	3008A02326	1GHz ~ 26.5GHz	15/Jul/2019	14/Jul/2020
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	09/Apr/2019	08/Apr/2020
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
EXA Signal Analyer	KEYSIGHT	N9010A	MY54200882	10Hz ~ 44GHz	26/Jul/2019	25/Jul/2020
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	04/Oct/2018	03/Oct/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	22/May/2019	21/May/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170221	18GHz~40GHz	22/May/2019	21/May/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	05/Aug/2019	04/Aug/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
LF-CABLE-20190218	Jye Bao	RG142	CB028	9kHz ~ 1GHz	18/Feb/2019	17/Feb/2020
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 17173/4	1GHz ~ 40GHz	03/Jul/2019	02/Jul/2020

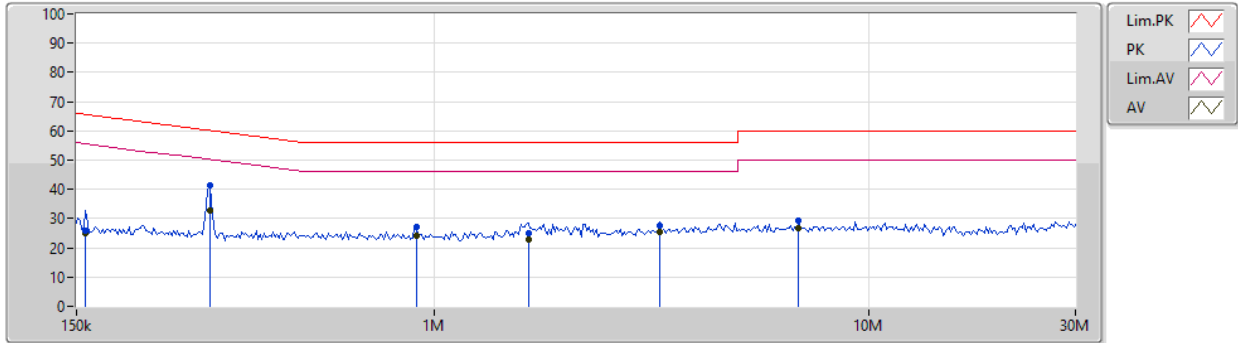
**Instrument for Radiated Test (03CH03-HY)**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	30/Aug/2018	29/Aug/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz 3m	31/Oct/2018	30/Oct/2019
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	22/Apr/2019	21/Apr/2020
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	14/Apr/2020	13/Apr/2021
EMC Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	28/May/2019	27/May/2020
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz ~ 26.5GHz	05/Sep/2018	04/Sep/2019
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz ~ 26.5GHz	09/Sep/2019	08/Sep/2020
Signal Analyzer	R&S	FSV40	101515	10Hz ~ 40GHz	19/Dec/2018	18/Dec/2019
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	15/Aug/2019	14/Aug/2020
RF CABLE 6m	HUBER+SUHNER	SUOFLEX 104	SN 805801/4	1GHz ~ 40GHz	21/Mar/2019	20/Mar/2020
RF CABLE 5m	HUBER+SUHNER	SUOFLEX 104	SN 804300/4	1GHz ~ 40GHz	17/Jun/2019	16/Jun/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	22/Mar/2019	21/Mar/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	09/Mar/ 2019	08/Mar/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	24/Aug/2018	23/Aug/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	05/Aug/2019	04/Aug/2020
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	15/Mar/2019	14/Mar/2020

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Switching Power Supply mode		

23/09/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	157.652k	25.87	65.58	-39.71	19.48	Neutral	-	6.39	9.60	0.01	9.87
AV	157.652k	24.90	55.58	-30.68	19.48	Neutral	-	5.42	9.60	0.01	9.87
QP	304.025k	41.17	60.13	-18.96	19.48	Neutral	-	21.69	9.59	0.01	9.88
AV	304.025k	32.75	50.13	-17.38	19.48	Neutral	"Worst"	13.27	9.59	0.01	9.88
QP	908.364k	27.36	56.00	-28.64	19.49	Neutral	-	7.87	9.59	0.02	9.88
AV	908.364k	23.95	46.00	-22.05	19.49	Neutral	-	4.46	9.59	0.02	9.88
QP	1.65M	24.83	56.00	-31.17	19.52	Neutral	-	5.31	9.60	0.03	9.89
AV	1.65M	22.97	46.00	-23.03	19.52	Neutral	-	3.45	9.60	0.03	9.89
QP	3.312M	27.57	56.00	-28.43	19.54	Neutral	-	8.03	9.61	0.04	9.89
AV	3.312M	25.31	46.00	-20.69	19.54	Neutral	-	5.77	9.61	0.04	9.89
QP	6.915M	29.30	60.00	-30.70	19.60	Neutral	-	9.70	9.65	0.06	9.89
AV	6.915M	26.67	50.00	-23.33	19.60	Neutral	-	7.07	9.65	0.06	9.89



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Switching Power Supply mode		

23/09/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	156.091k	27.73	65.67	-37.94	19.48	Line	-	8.25	9.60	0.01	9.87
AV	156.091k	25.21	55.67	-30.46	19.48	Line	-	5.73	9.60	0.01	9.87
QP	304.025k	41.00	60.13	-19.13	19.48	Line	-	21.52	9.59	0.01	9.88
AV	304.025k	32.40	50.13	-17.73	19.48	Line	"Worst"	12.92	9.59	0.01	9.88
QP	452.651k	23.36	56.82	-33.46	19.48	Line	-	3.88	9.59	0.01	9.88
AV	452.651k	21.95	46.82	-24.87	19.48	Line	-	2.47	9.59	0.01	9.88
QP	2.014M	24.33	56.00	-31.67	19.54	Line	-	4.79	9.62	0.03	9.89
AV	2.014M	22.60	46.00	-23.40	19.54	Line	-	3.06	9.62	0.03	9.89
QP	3.312M	26.85	56.00	-29.15	19.56	Line	-	7.29	9.63	0.04	9.89
AV	3.312M	24.53	46.00	-21.47	19.56	Line	-	4.97	9.63	0.04	9.89
QP	9.321M	29.90	60.00	-30.10	19.63	Line	-	10.27	9.67	0.07	9.89
AV	9.321M	27.24	50.00	-22.76	19.63	Line	-	7.61	9.67	0.07	9.89

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.74M	16.822M	16M8D1D	21.78M	16.582M
802.11ac VHT20_Nss1,(MCS0)_2TX	42.33M	18.531M	18M5D1D	22.05M	17.601M
802.11ac VHT40_Nss1,(MCS0)_2TX	93.18M	36.942M	36M9D1D	40.08M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	81.96M	75.802M	75M8D1D	81.48M	75.802M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	26.19M	16.852M	16M9D1D	22.89M	16.552M
802.11ac VHT20_Nss1,(MCS0)_2TX	43.53M	18.831M	18M8D1D	29.1M	17.601M
802.11ac VHT40_Nss1,(MCS0)_2TX	99.36M	37.241M	37M2D1D	39.54M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.08M	75.802M	75M8D1D	81.96M	75.682M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	32.52M	16.702M	16M7D1D	15.705M	13.463M
802.11ac VHT20_Nss1,(MCS0)_2TX	45.69M	18.891M	18M9D1D	21.75M	14.093M
802.11ac VHT40_Nss1,(MCS0)_2TX	98.88M	37.361M	37M4D1D	39.96M	33.268M
802.11ac VHT80_Nss1,(MCS0)_2TX	173.64M	76.522M	76M5D1D	81.72M	72.714M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.32M	17.001M	17M0D1D	3.18M	5.217M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.58M	18.921M	18M9D1D	3.74M	9.575M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.3M	38.141M	38M1D1D	3.14M	24.828M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.12M	76.642M	76M6D1D	3.08M	33.323M

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	-	-	-	-	-	-
5180MHz	Pass	Inf	21.84M	16.672M	22.59M	16.792M
5200MHz	Pass	Inf	21.78M	16.762M	23.31M	16.822M
5240MHz	Pass	Inf	25.74M	16.582M	25.68M	16.642M
5260MHz	Pass	Inf	25.86M	16.582M	25.62M	16.552M
5300MHz	Pass	Inf	22.89M	16.792M	23.85M	16.852M
5320MHz	Pass	Inf	25.26M	16.822M	26.19M	16.852M
5500MHz	Pass	Inf	21.63M	16.702M	21.6M	16.672M
5580MHz	Pass	Inf	32.52M	16.612M	29.79M	16.642M
5700MHz	Pass	Inf	21.75M	16.702M	21.6M	16.642M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.87M	13.463M	15.705M	13.478M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	5.217M	3.18M	7.176M
5745MHz	Pass	500k	16.32M	16.792M	16.32M	16.972M
5785MHz	Pass	500k	16.32M	16.882M	16.32M	17.001M
5825MHz	Pass	500k	16.32M	16.822M	16.32M	16.912M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.05M	17.871M	28.02M	17.931M
5200MHz	Pass	Inf	25.2M	17.901M	27.27M	18.051M
5240MHz	Pass	Inf	34.83M	17.601M	42.33M	18.531M
5260MHz	Pass	Inf	38.91M	17.601M	43.53M	18.831M
5300MHz	Pass	Inf	29.1M	18.051M	35.88M	18.321M
5320MHz	Pass	Inf	29.82M	18.081M	39.18M	18.441M
5500MHz	Pass	Inf	21.81M	17.841M	21.75M	17.781M
5580MHz	Pass	Inf	45.69M	18.411M	40.89M	18.891M
5700MHz	Pass	Inf	22.05M	17.781M	21.78M	17.841M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	22.53M	14.093M	23.76M	14.363M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	9.575M	3.74M	12.134M
5745MHz	Pass	500k	17.52M	18.021M	17.58M	18.651M
5785MHz	Pass	500k	17.58M	18.141M	17.55M	18.921M
5825MHz	Pass	500k	17.52M	18.201M	17.55M	18.561M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.38M	36.282M	40.08M	36.222M
5230MHz	Pass	Inf	62.52M	36.402M	93.18M	36.942M
5270MHz	Pass	Inf	83.16M	36.582M	99.36M	37.241M
5310MHz	Pass	Inf	40.08M	36.342M	39.54M	36.222M
5510MHz	Pass	Inf	40.2M	36.222M	39.96M	36.222M
5550MHz	Pass	Inf	98.88M	37.361M	93.6M	37.301M
5670MHz	Pass	Inf	95.52M	36.702M	98.34M	36.762M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	62.825M	33.268M	65.065M	33.443M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	24.828M	3.14M	26.307M
5755MHz	Pass	500k	36.3M	36.702M	36.3M	38.141M
5795MHz	Pass	500k	36.06M	36.702M	36.3M	37.541M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.96M	75.802M	81.48M	75.802M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5290MHz	Pass	Inf	81.96M	75.802M	82.08M	75.682M
5530MHz	Pass	Inf	81.84M	75.562M	81.72M	75.682M
5610MHz	Pass	Inf	148.92M	76.162M	173.64M	76.522M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	99.525M	72.714M	123.75M	72.939M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	33.323M	3.1M	35.482M
5775MHz	Pass	500k	75.12M	76.282M	75.12M	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;

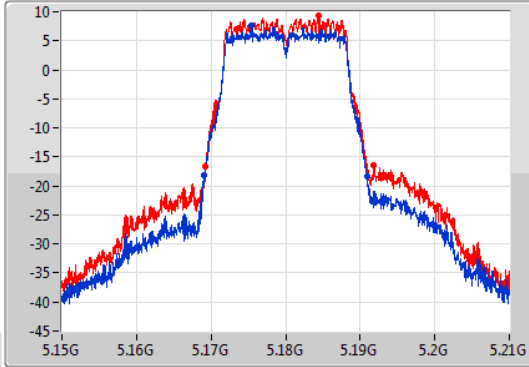
802.11a_Nss1,(6Mbps)_2TX

EBW

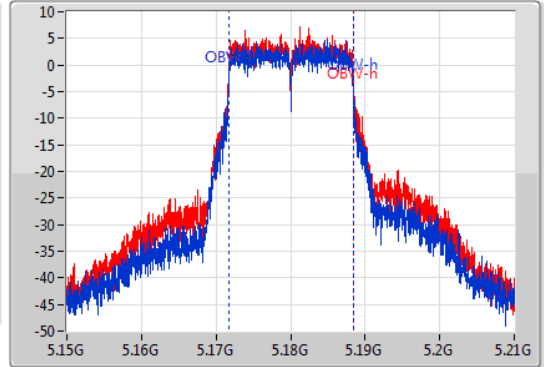
5180MHz

08/08/2019

CF: 5.18GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.18GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.84M	5.16908G	5.19092G	16.672M	5.171694G	5.188366G	Inf	1
22.59M	5.16926G	5.19185G	16.792M	5.171664G	5.188456G	Inf	2

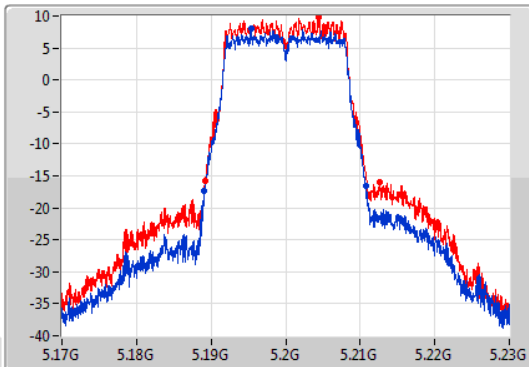
802.11a_Nss1,(6Mbps)_2TX

EBW

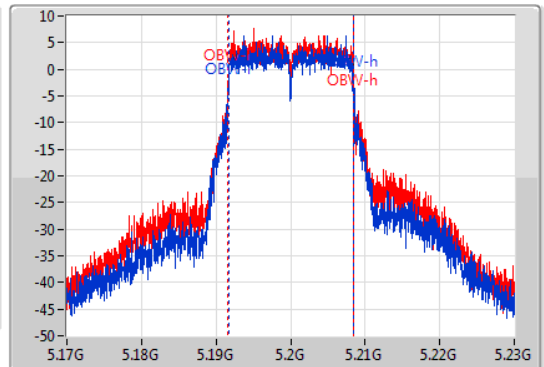
5200MHz

08/08/2019

CF: 5.2GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.2GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



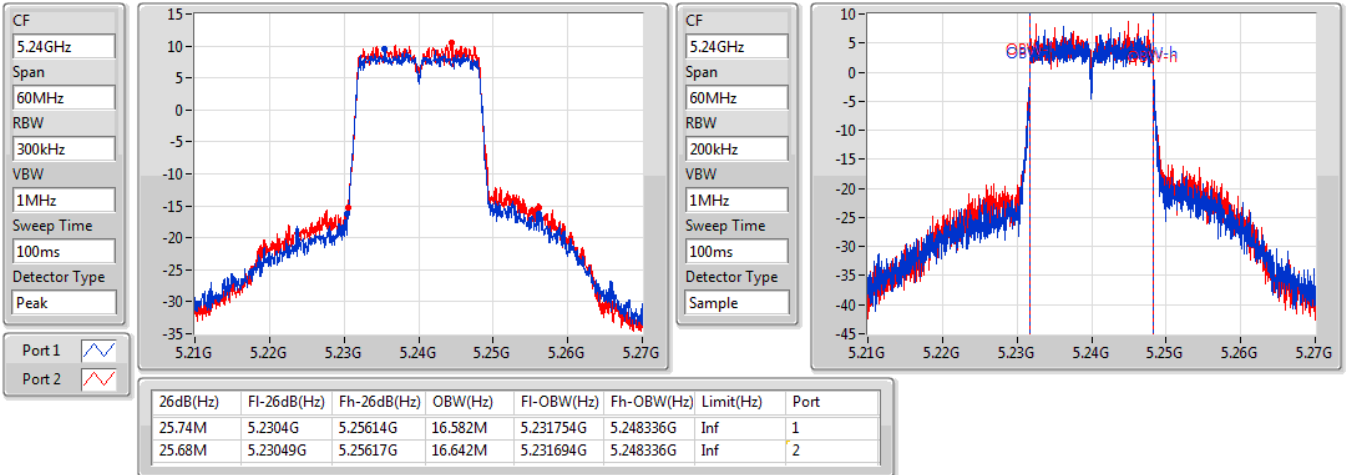
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.78M	5.18908G	5.21086G	16.762M	5.191664G	5.208426G	Inf	1
23.31M	5.18926G	5.21257G	16.822M	5.191634G	5.208456G	Inf	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

08/08/2019

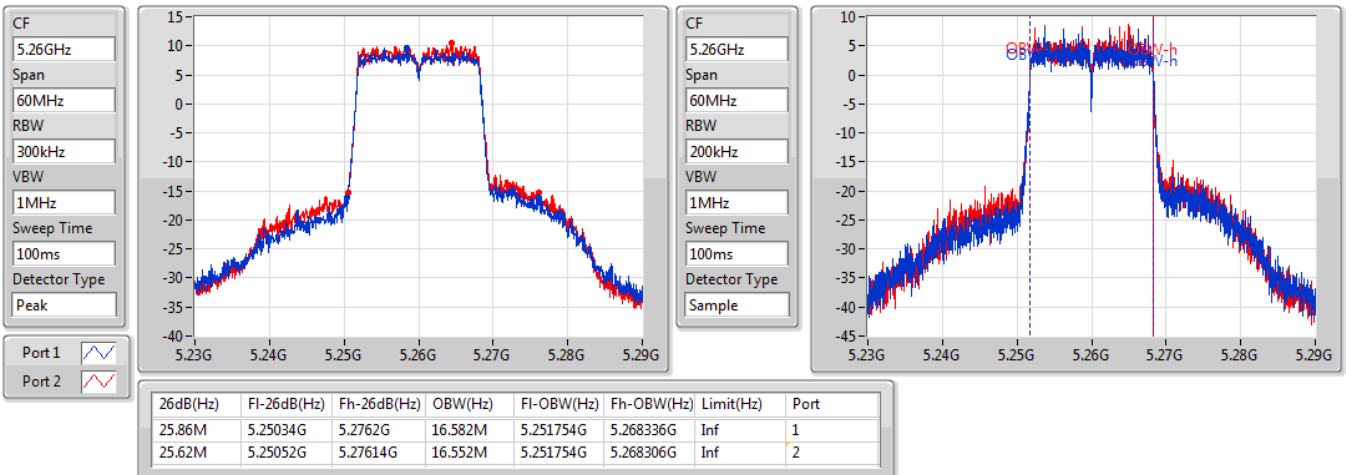


802.11a_Nss1,(6Mbps)_2TX

EBW

5260MHz

08/08/2019



802.11a_Nss1,(6Mbps)_2TX

EBW

5300MHz

08/08/2019

CF
5.3GHz

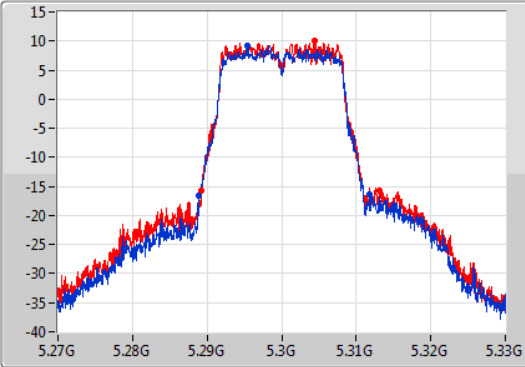
Span
60MHz

RBW
300kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



CF
5.3GHz

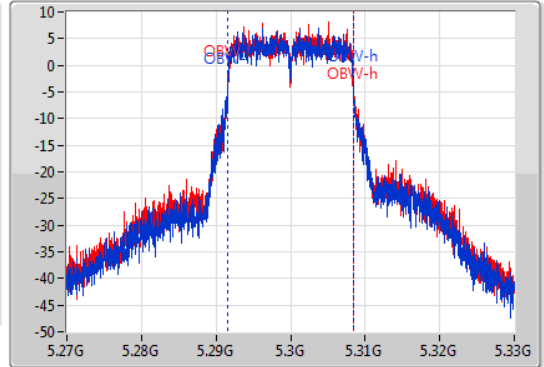
Span
60MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.89M	5.28893G	5.31182G	16.792M	5.291634G	5.308426G	Inf	1
23.85M	5.28929G	5.31314G	16.852M	5.291604G	5.308456G	Inf	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5320MHz

08/08/2019

CF
5.32GHz

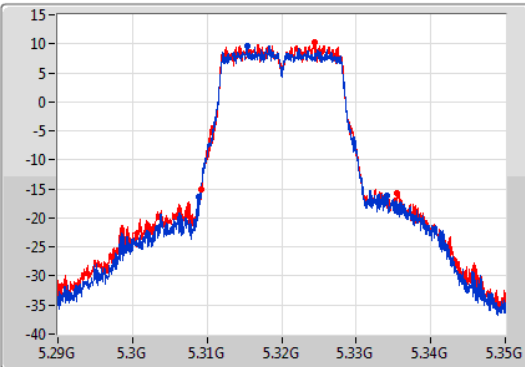
Span
60MHz

RBW
300kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



CF
5.32GHz

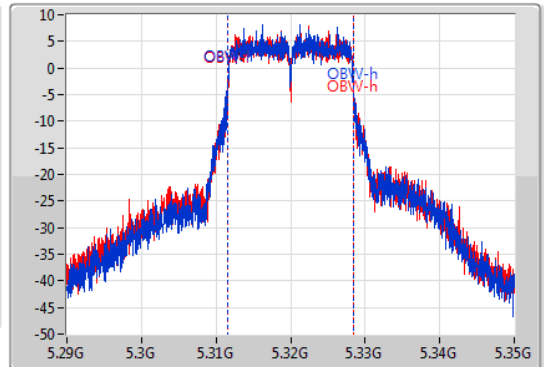
Span
60MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.26M	5.30893G	5.33419G	16.822M	5.311604G	5.328426G	Inf	1
26.19M	5.30926G	5.33545G	16.852M	5.311604G	5.328456G	Inf	2

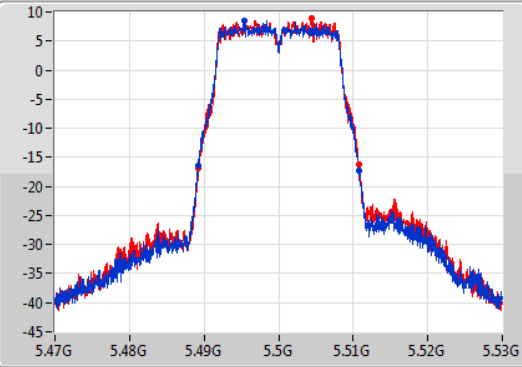
802.11a_Nss1,(6Mbps)_2TX

EBW

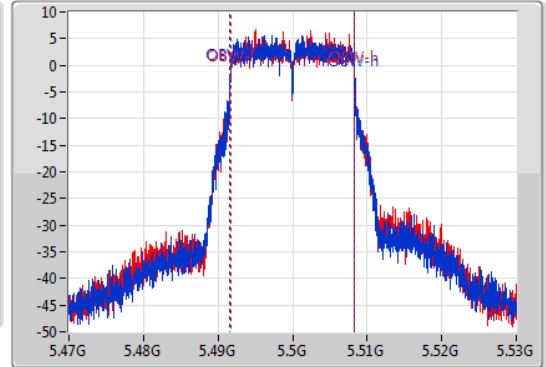
5500MHz

08/08/2019

CF
5.5GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.5GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.63M	5.48914G	5.51077G	16.702M	5.491634G	5.508336G	Inf	1
21.6M	5.4892G	5.5108G	16.672M	5.491664G	5.508336G	Inf	2

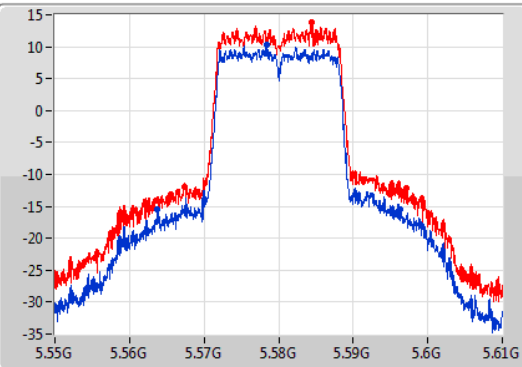
802.11a_Nss1,(6Mbps)_2TX

EBW

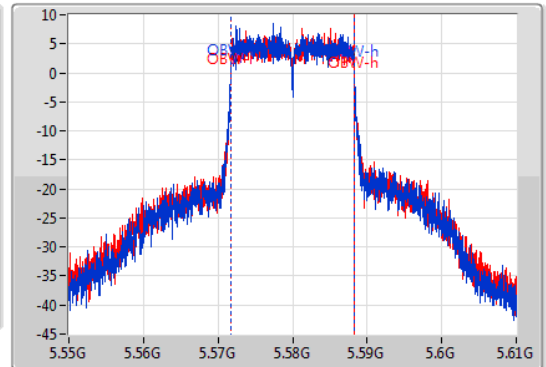
5580MHz

08/08/2019

CF
5.58GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.58GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.52M	5.56374G	5.59626G	16.612M	5.571724G	5.588336G	Inf	1
29.79M	5.56731G	5.5971G	16.642M	5.571694G	5.588336G	Inf	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5700MHz

08/08/2019

CF
5.7GHz

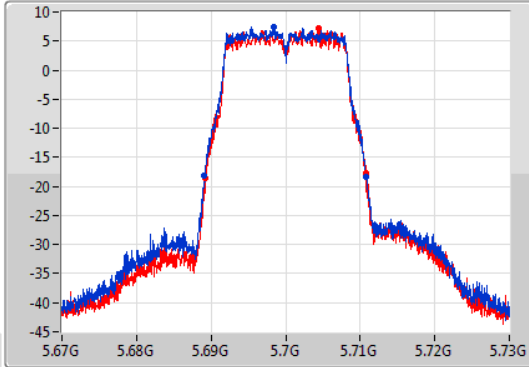
Span
60MHz

RBW
300kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



CF
5.7GHz

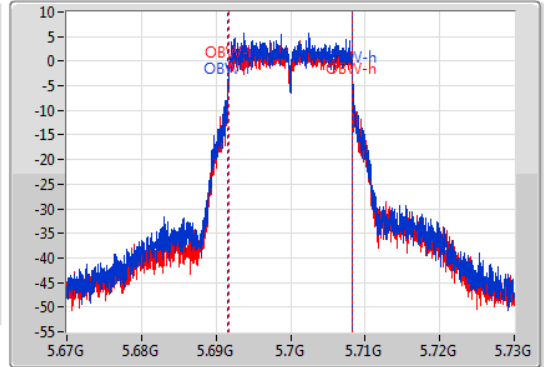
Span
60MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.68908G	5.71083G	16.702M	5.691634G	5.708336G	Inf	1
21.6M	5.68923G	5.71083G	16.642M	5.691694G	5.708336G	Inf	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

08/08/2019

CF
5.71GHz

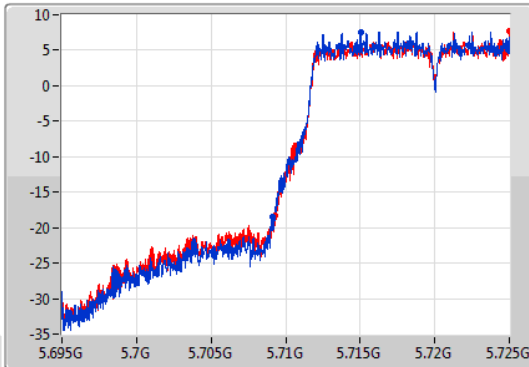
Span
30MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



CF
5.71GHz

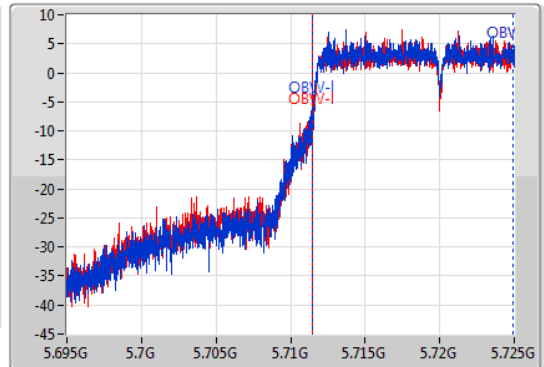
Span
30MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



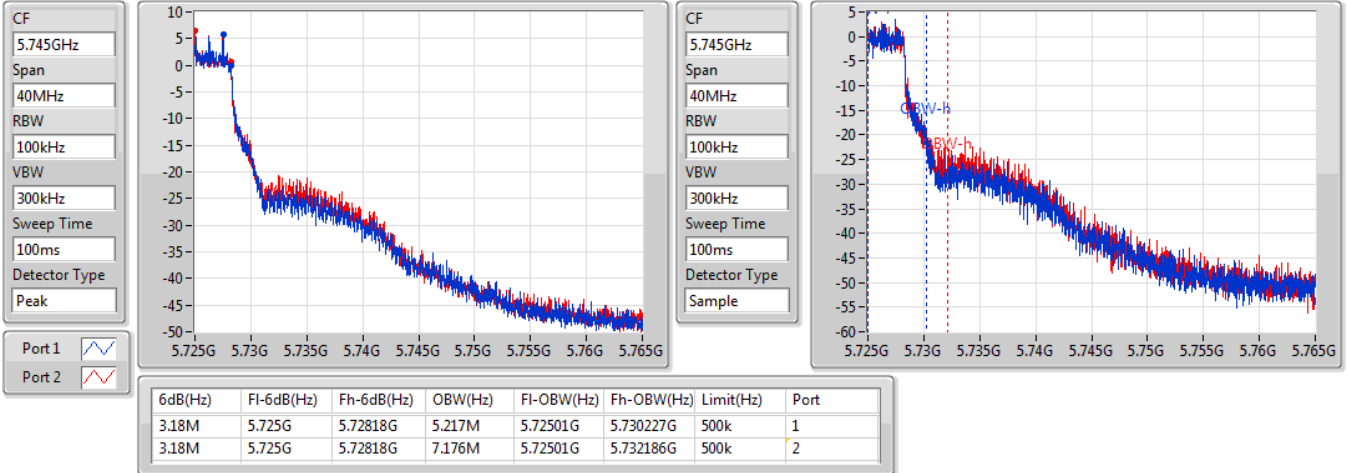
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.87M	5.70913G	5.725G	13.463M	5.711469G	5.724933G	Inf	1
15.705M	5.709295G	5.725G	13.478M	5.711454G	5.724933G	Inf	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

08/08/2019

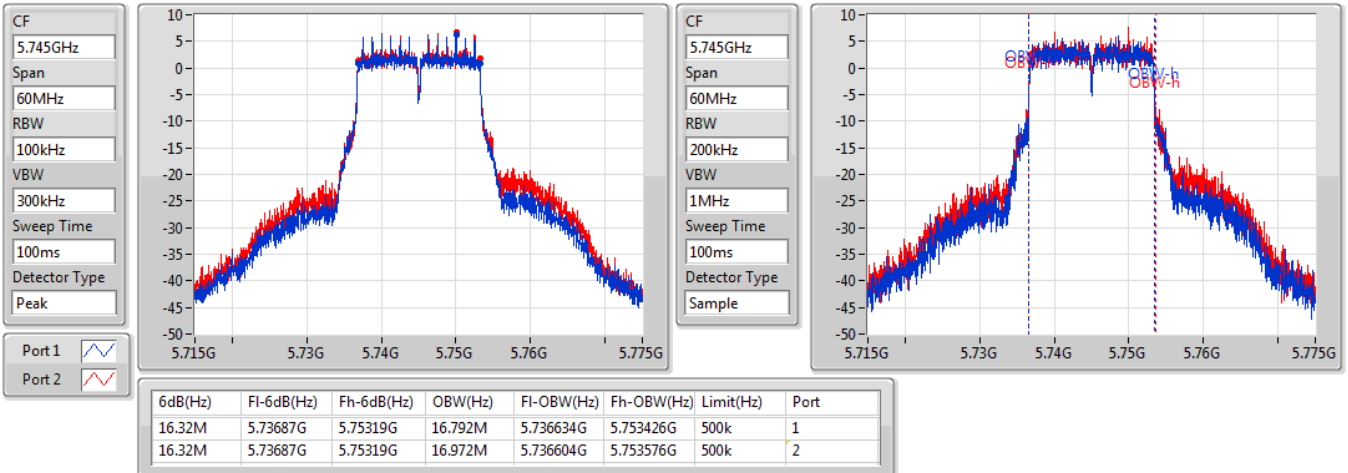


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

08/08/2019



802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

08/08/2019

CF
5.785GHz

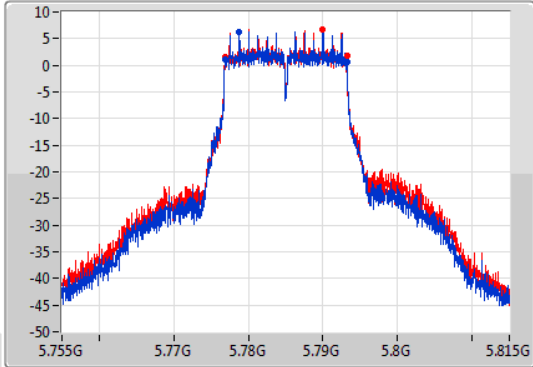
Span
60MHz

RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak



CF
5.785GHz

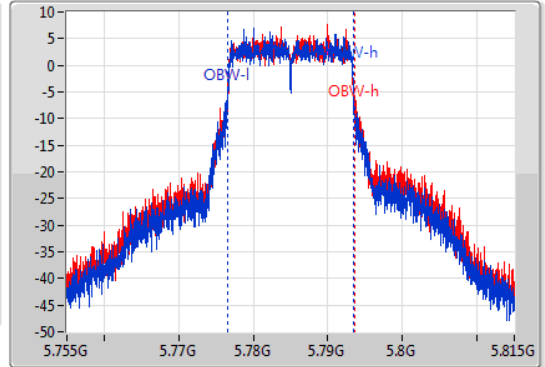
Span
60MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.77687G	5.79319G	16.882M	5.776574G	5.793456G	500k	1
16.32M	5.77687G	5.79319G	17.001M	5.776574G	5.793576G	500k	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

08/08/2019

CF
5.825GHz

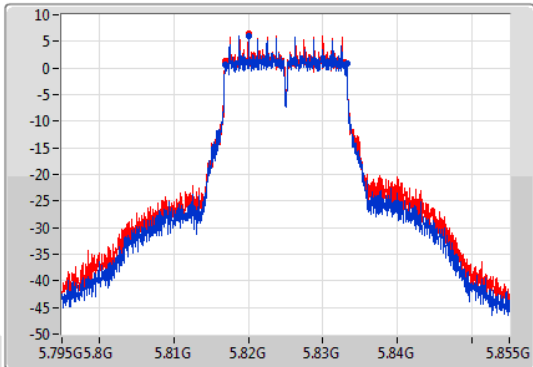
Span
60MHz

RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak



CF
5.825GHz

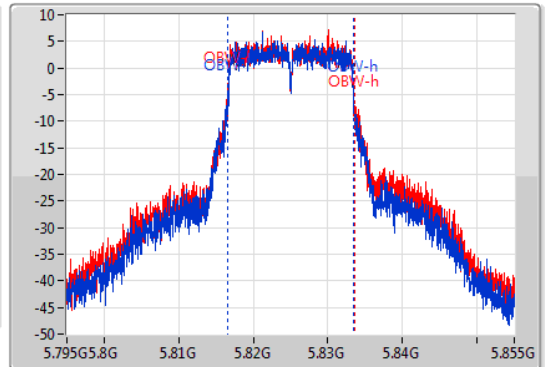
Span
60MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.81687G	5.83319G	16.822M	5.816574G	5.833396G	500k	1
16.32M	5.81687G	5.83319G	16.912M	5.816634G	5.833546G	500k	2

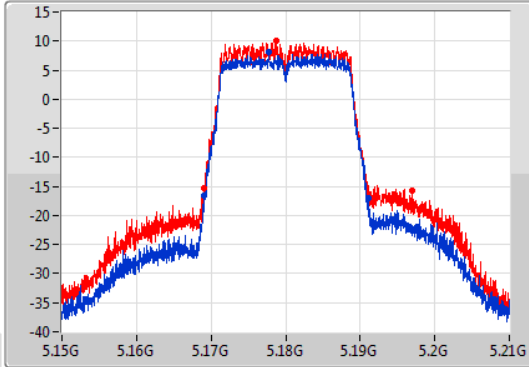
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

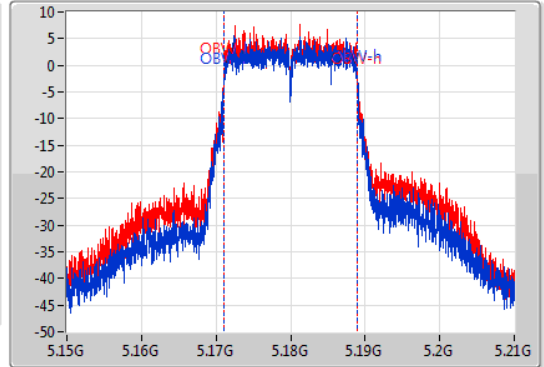
5180MHz

08/08/2019

CF
5.18GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.05M	5.16899G	5.19104G	17.871M	5.171094G	5.188966G	Inf	1
28.02M	5.16899G	5.19701G	17.931M	5.171064G	5.188996G	Inf	2

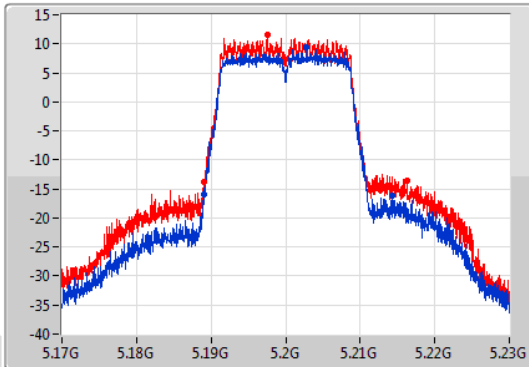
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

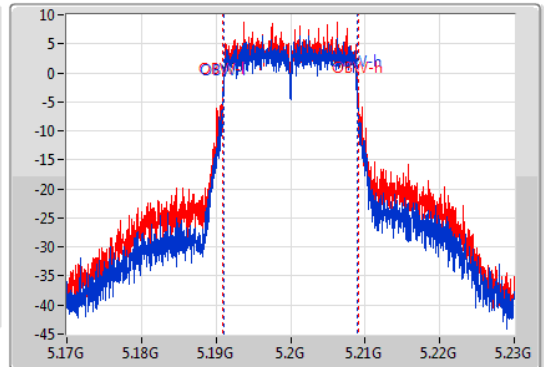
5200MHz

08/08/2019

CF
5.2GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.2GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



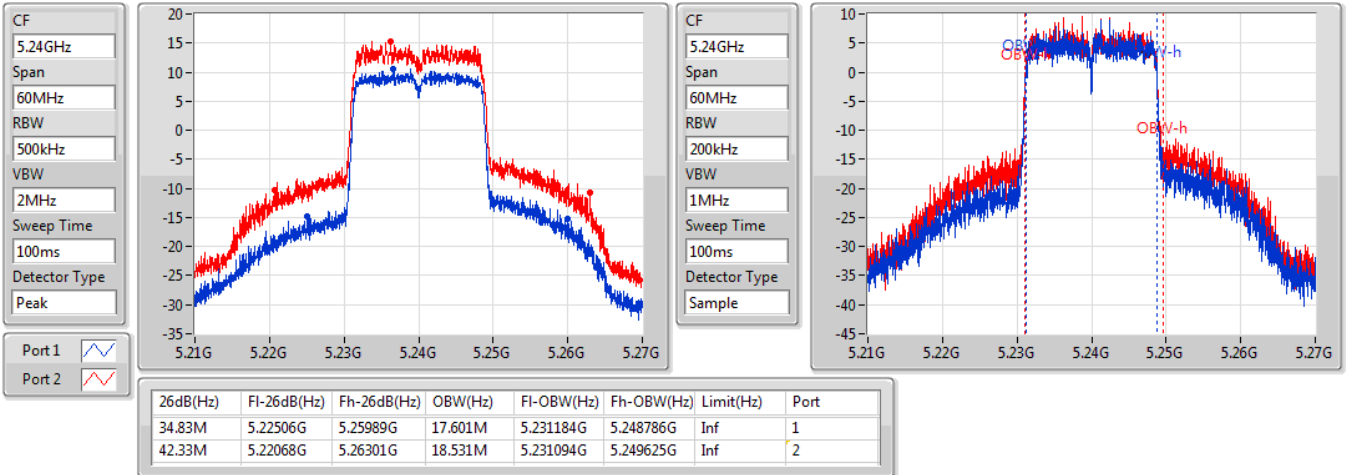
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.2M	5.18902G	5.21422G	17.901M	5.191034G	5.208936G	Inf	1
27.27M	5.18905G	5.21632G	18.051M	5.190975G	5.209025G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5240MHz

08/08/2019

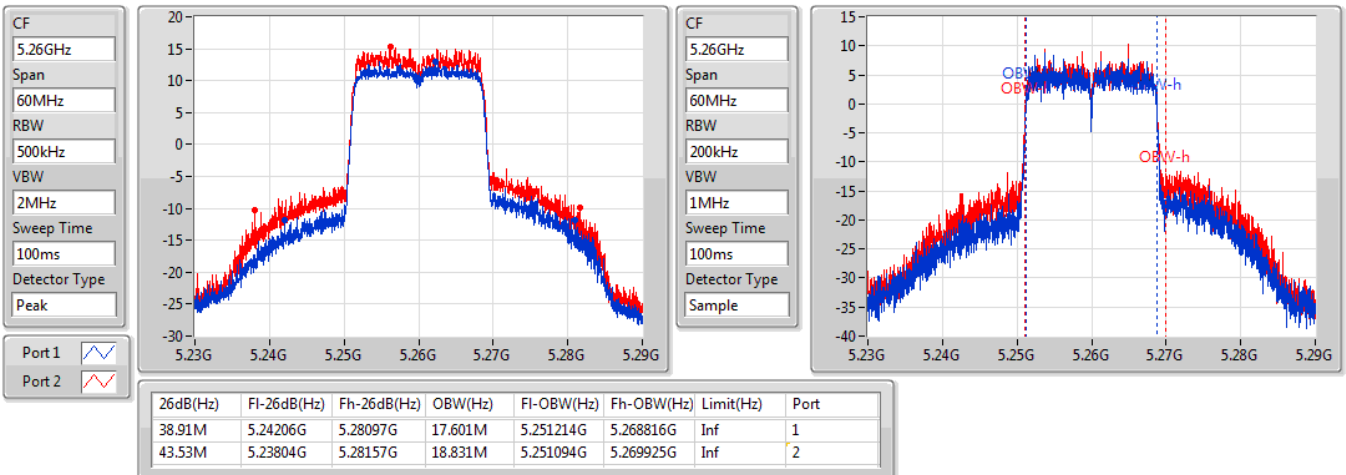


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5260MHz

08/08/2019



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5300MHz

08/08/2019

CF
5.3GHz

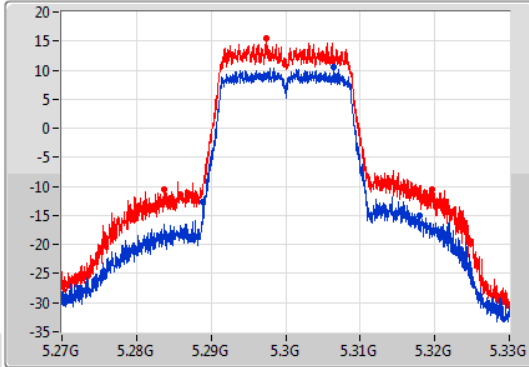
Span
60MHz

RBW
500kHz

VBW
2MHz

Sweep Time
100ms

Detector Type
Peak



CF
5.3GHz

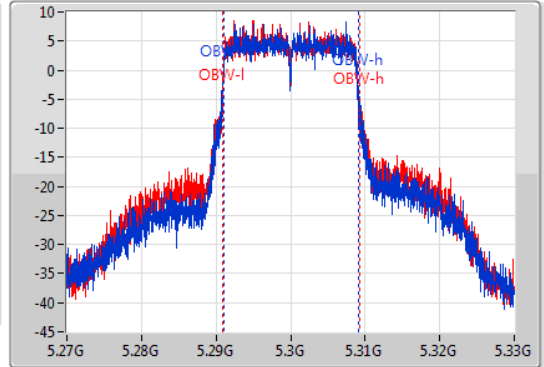
Span
60MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.1M	5.28893G	5.31803G	18.051M	5.291004G	5.309055G	Inf	1
35.88M	5.28374G	5.31962G	18.321M	5.290945G	5.309265G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5320MHz

08/08/2019

CF
5.32GHz

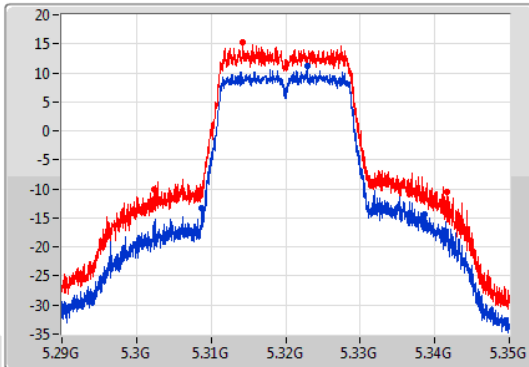
Span
60MHz

RBW
500kHz

VBW
2MHz

Sweep Time
100ms

Detector Type
Peak



CF
5.32GHz

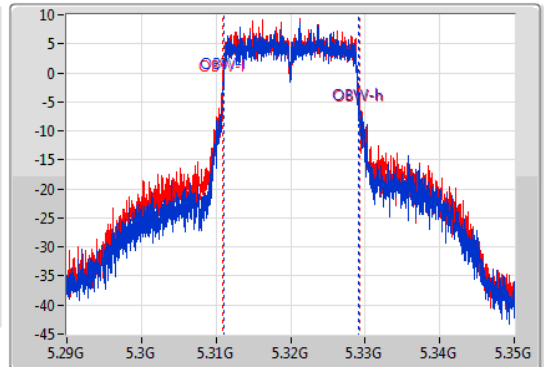
Span
60MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



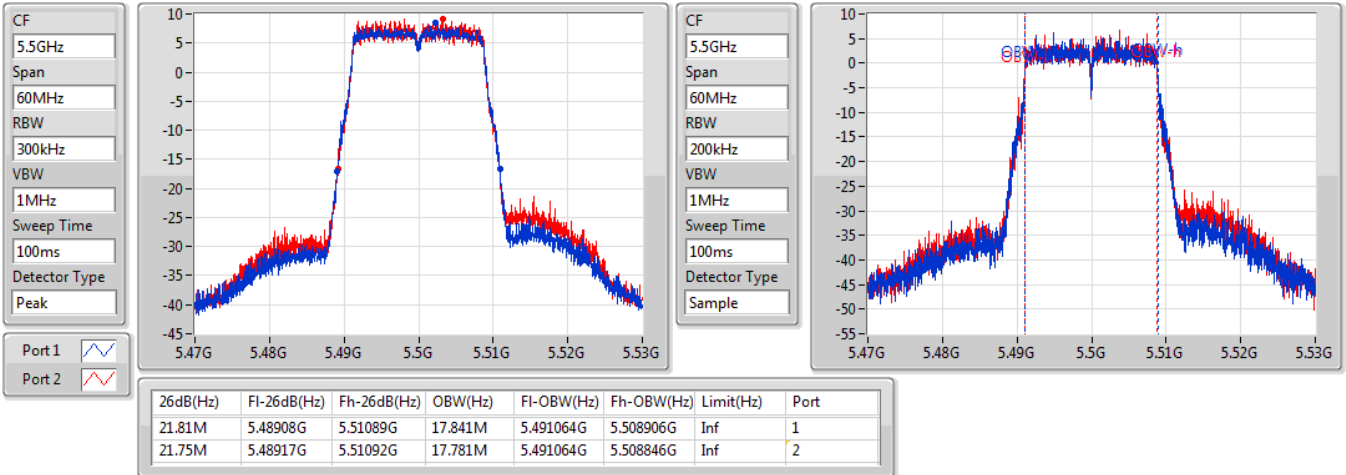
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.82M	5.30878G	5.3386G	18.081M	5.311004G	5.329085G	Inf	1
39.18M	5.30239G	5.34157G	18.441M	5.310855G	5.329295G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5500MHz

08/08/2019

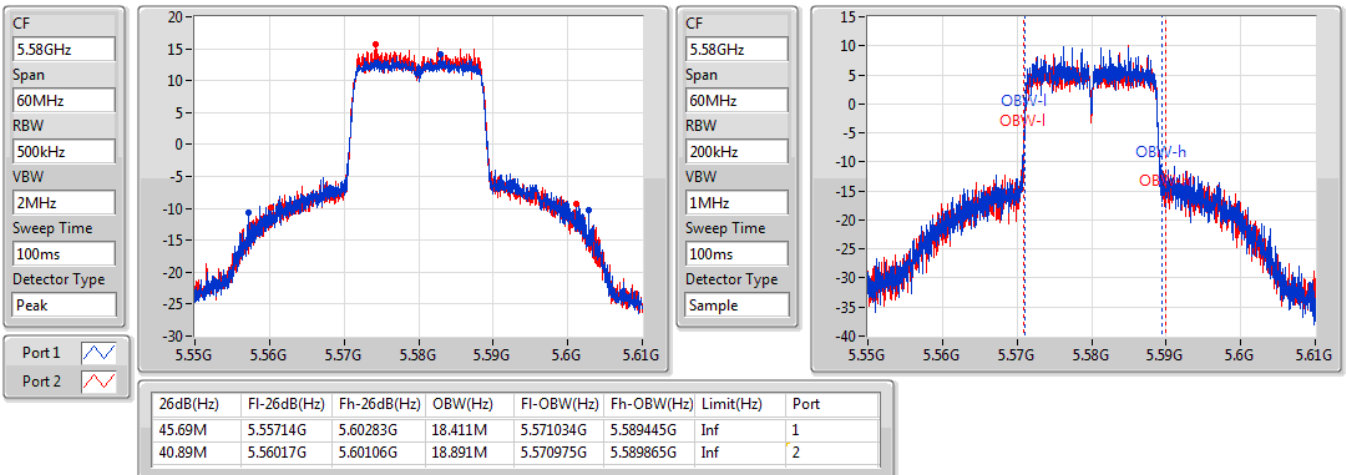


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5580MHz

08/08/2019



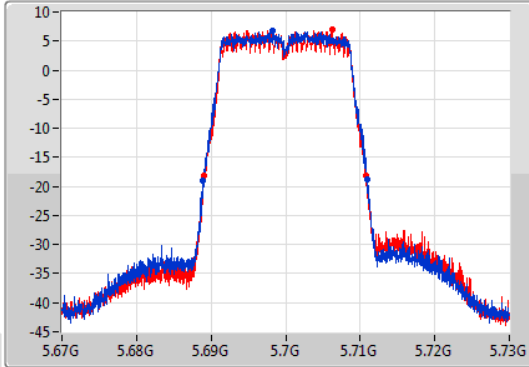
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

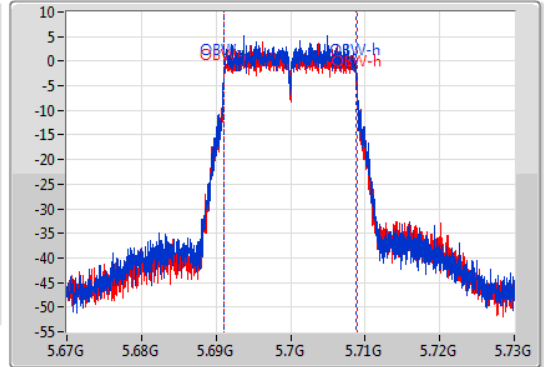
5700MHz

08/08/2019

CF: 5.7GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak
 Port 1: [Waveform icon]
 Port 2: [Waveform icon]



CF: 5.7GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.05M	5.68893G	5.71098G	17.781M	5.691064G	5.708846G	Inf	1
21.78M	5.68905G	5.71083G	17.841M	5.691034G	5.708876G	Inf	2

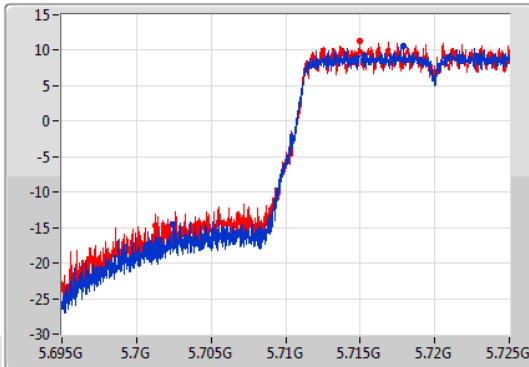
802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

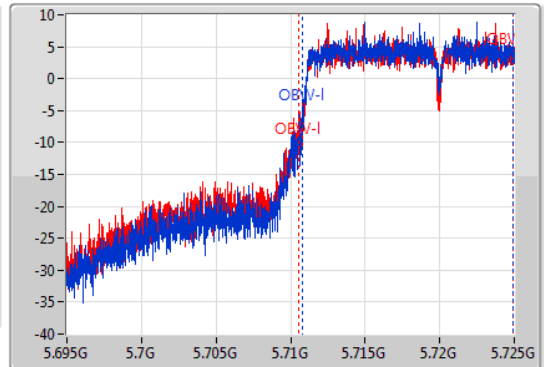
5720MHz Straddle 5.47-5.725GHz

08/08/2019

CF: 5.71GHz
 Span: 30MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak
 Port 1: [Waveform icon]
 Port 2: [Waveform icon]



CF: 5.71GHz
 Span: 30MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



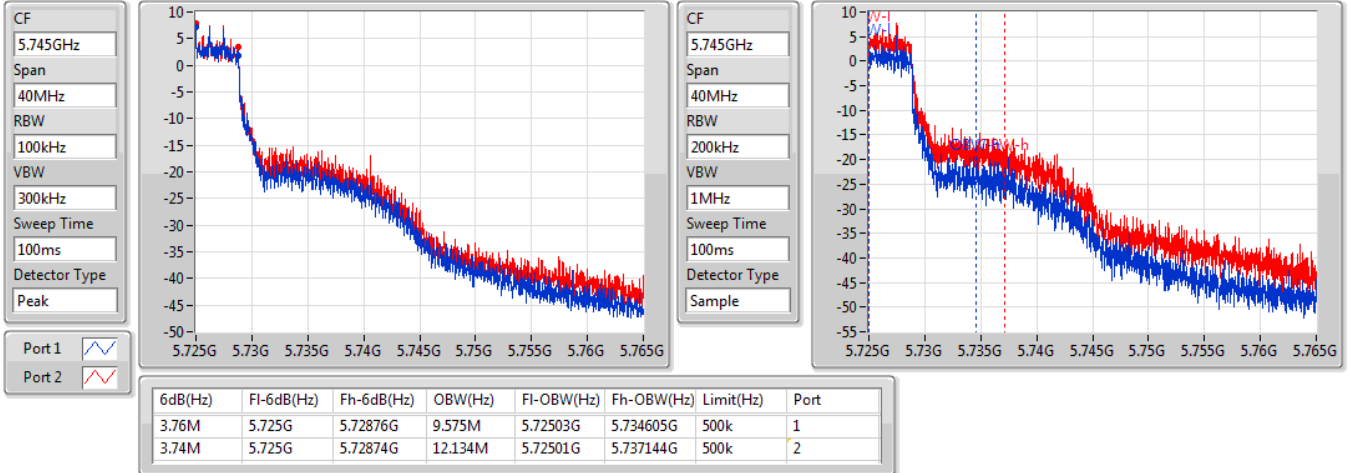
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.53M	5.70247G	5.725G	14.093M	5.710825G	5.724918G	Inf	1
23.76M	5.70124G	5.725G	14.363M	5.71057G	5.724933G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

08/08/2019

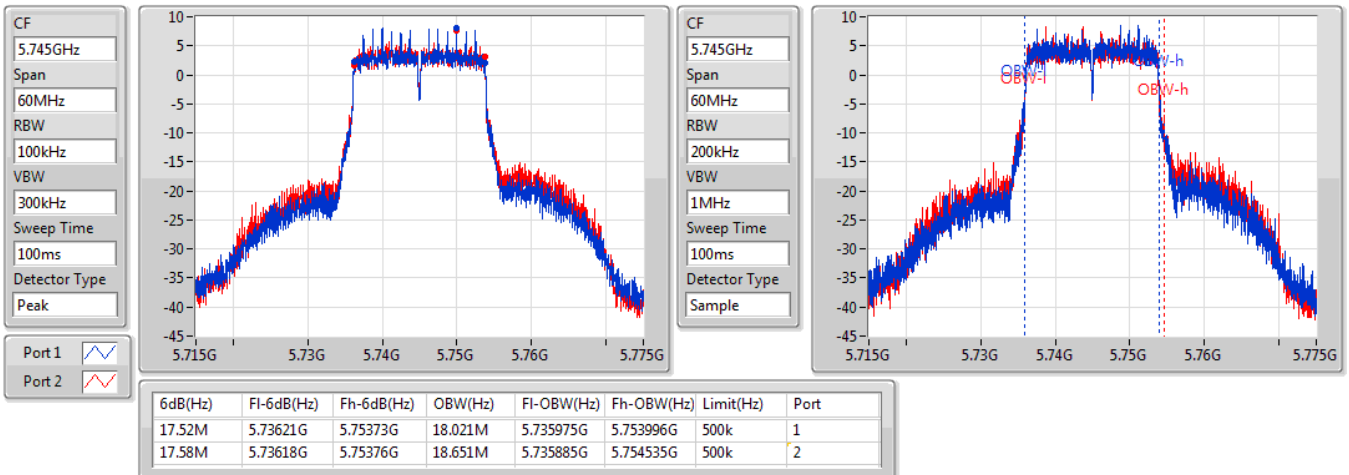


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5745MHz

08/08/2019

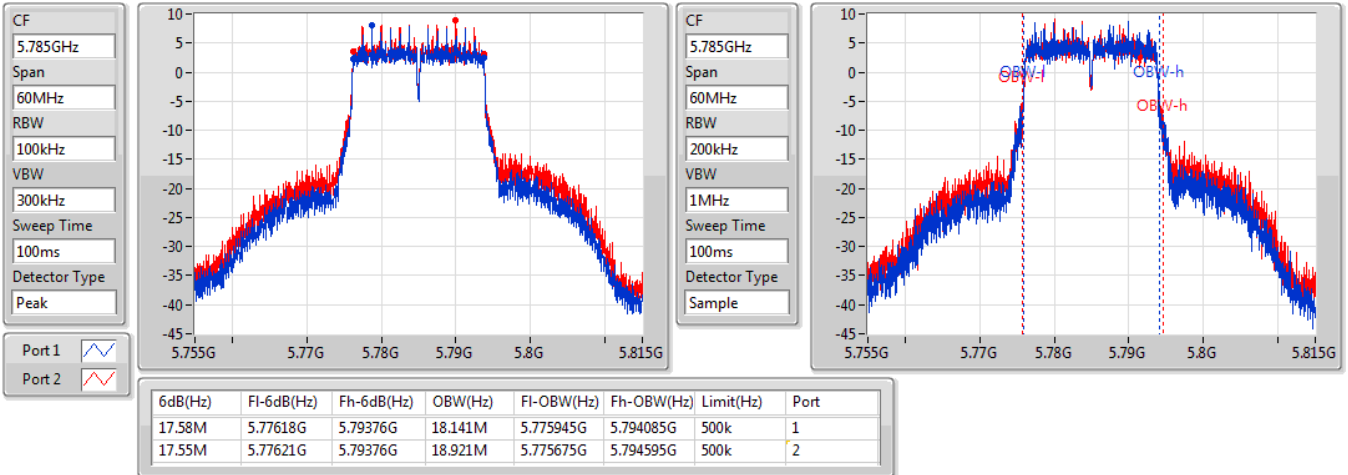


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

08/08/2019

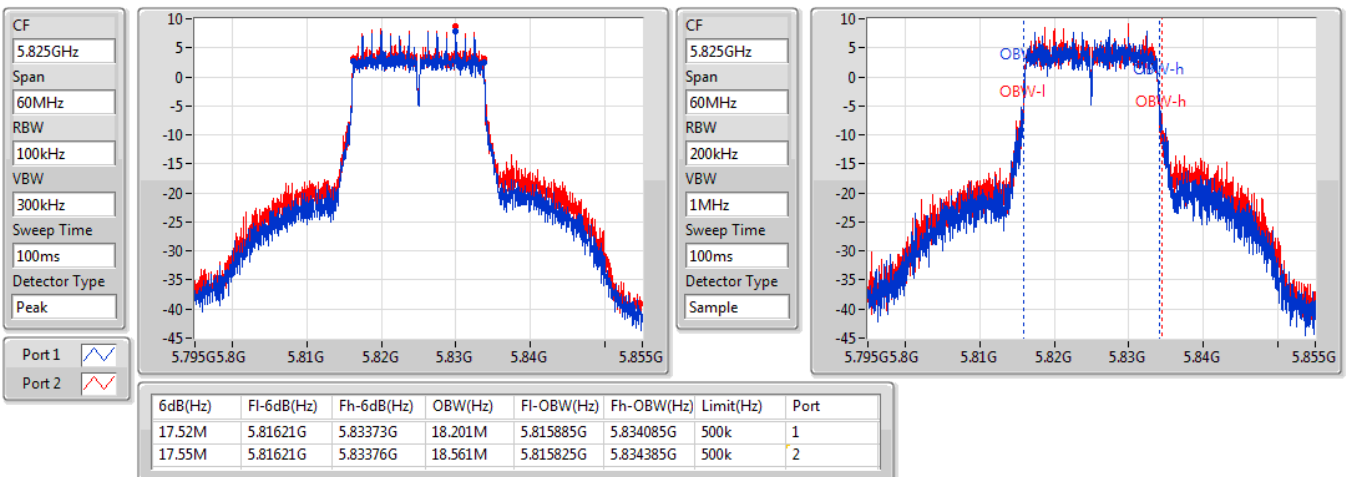


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

08/08/2019



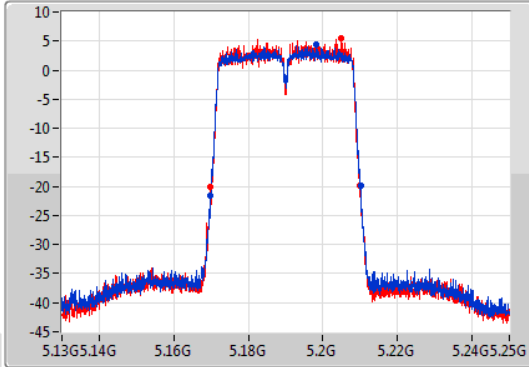
802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

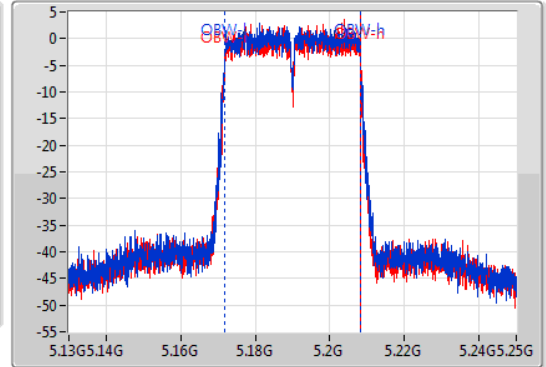
5190MHz

12/08/2019

CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.38M	5.16972G	5.2101G	36.282M	5.171829G	5.208111G	Inf	1
40.08M	5.1699G	5.20998G	36.222M	5.171889G	5.208111G	Inf	2

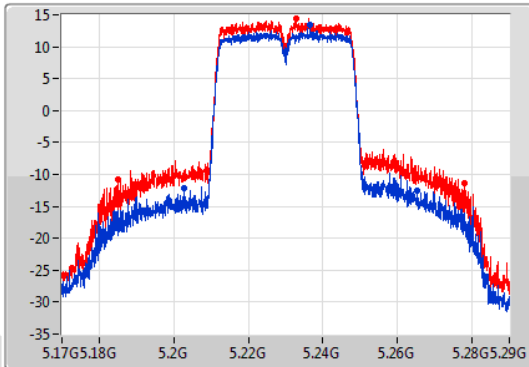
802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

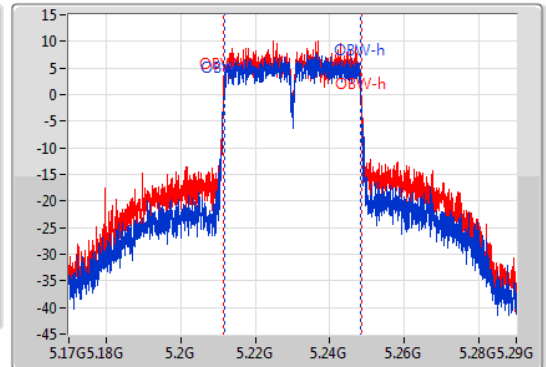
5230MHz

08/08/2019

CF
5.23GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
62.52M	5.2027G	5.26522G	36.402M	5.211769G	5.248171G	Inf	1
93.18M	5.18494G	5.27812G	36.942M	5.211529G	5.248471G	Inf	2

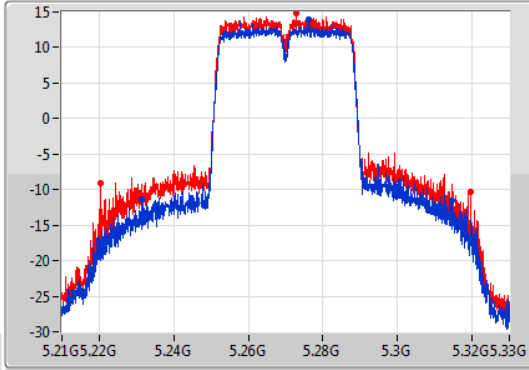
802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

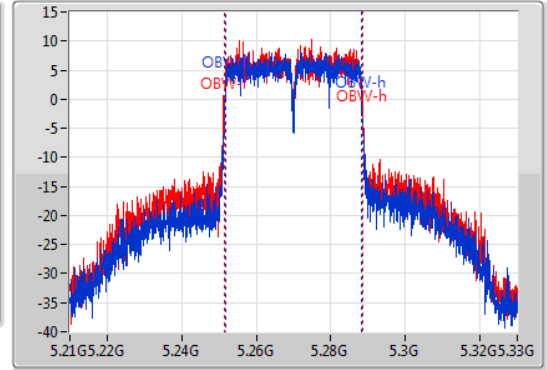
5270MHz

08/08/2019

CF
5.27GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



CF
5.27GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.16M	5.23154G	5.3147G	36.582M	5.251709G	5.288291G	Inf	1
99.36M	5.22026G	5.31962G	37.241M	5.251409G	5.288651G	Inf	2

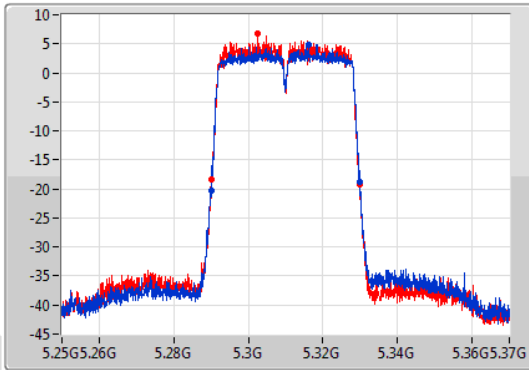
802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

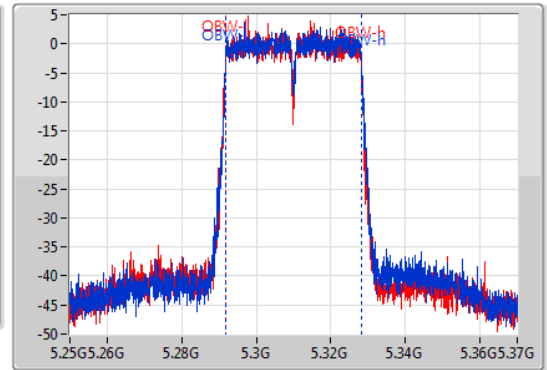
5310MHz

08/08/2019

CF
5.31GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



CF
5.31GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.08M	5.28996G	5.33004G	36.342M	5.291829G	5.328171G	Inf	1
39.54M	5.29026G	5.3298G	36.222M	5.291829G	5.328051G	Inf	2

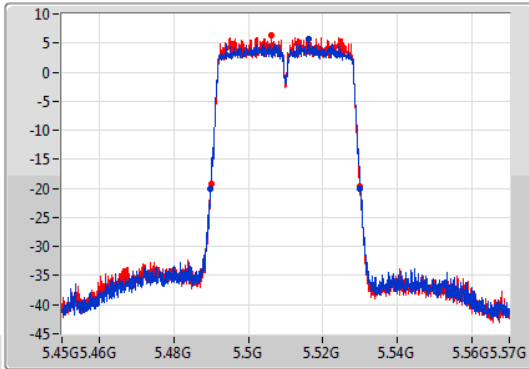
802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

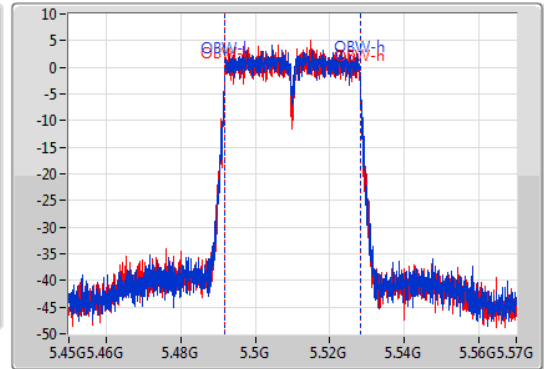
5510MHz

08/08/2019

CF
5.51GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.51GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.2M	5.48984G	5.53004G	36.222M	5.491829G	5.528051G	Inf	1
39.96M	5.48996G	5.52992G	36.222M	5.491829G	5.528051G	Inf	2

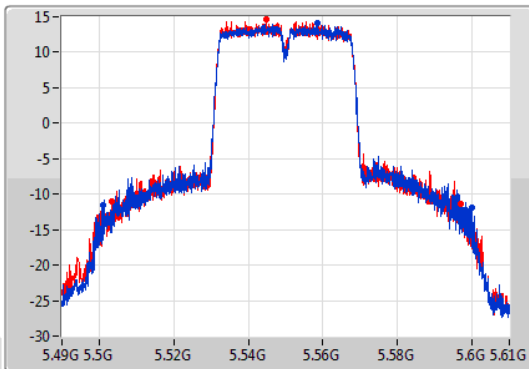
802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

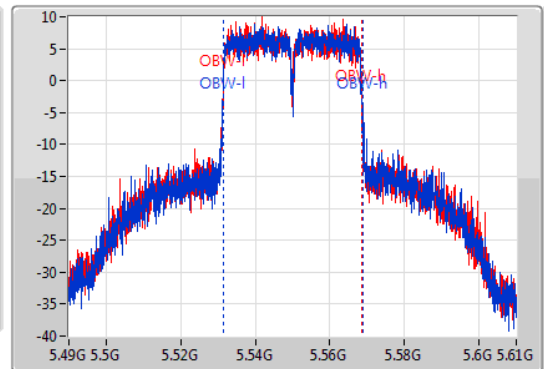
5550MHz

08/08/2019

CF
5.55GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.55GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



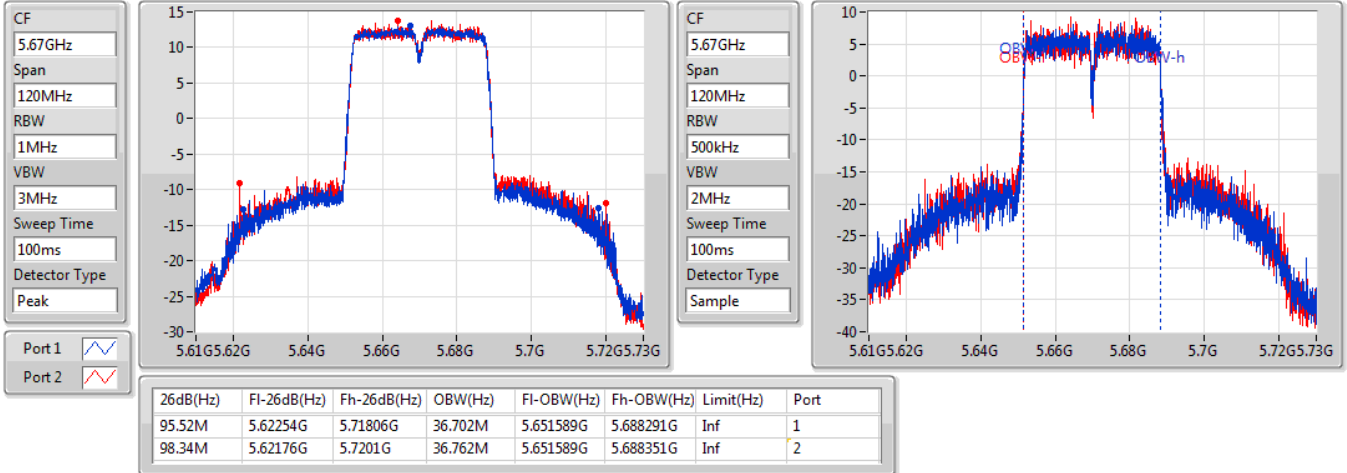
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
98.88M	5.5011G	5.59998G	37.361M	5.531409G	5.568771G	Inf	1
93.6M	5.5035G	5.5971G	37.301M	5.531349G	5.568651G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5670MHz

08/08/2019

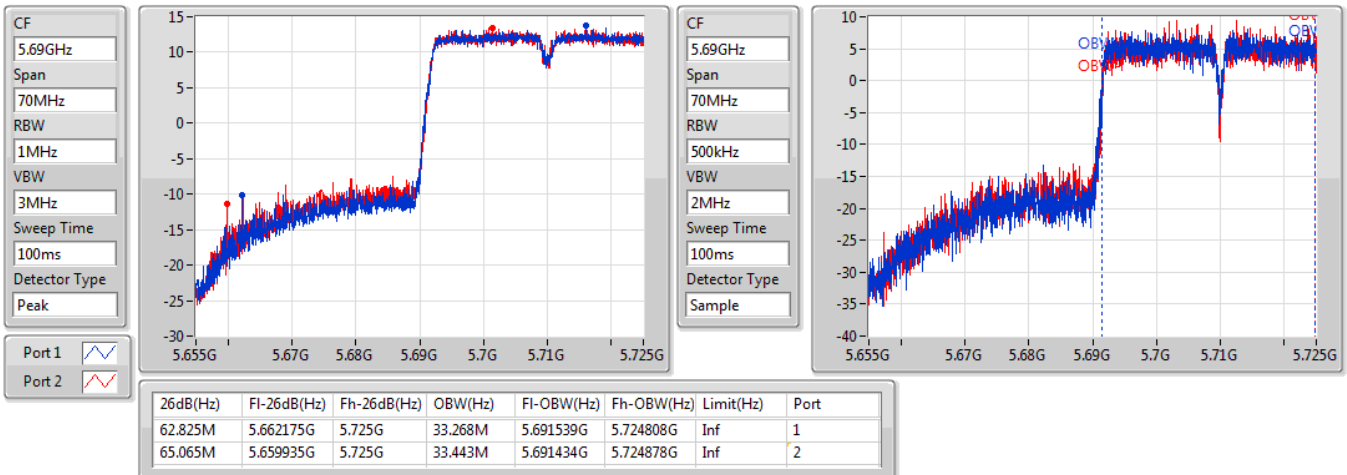


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.47-5.725GHz

08/08/2019

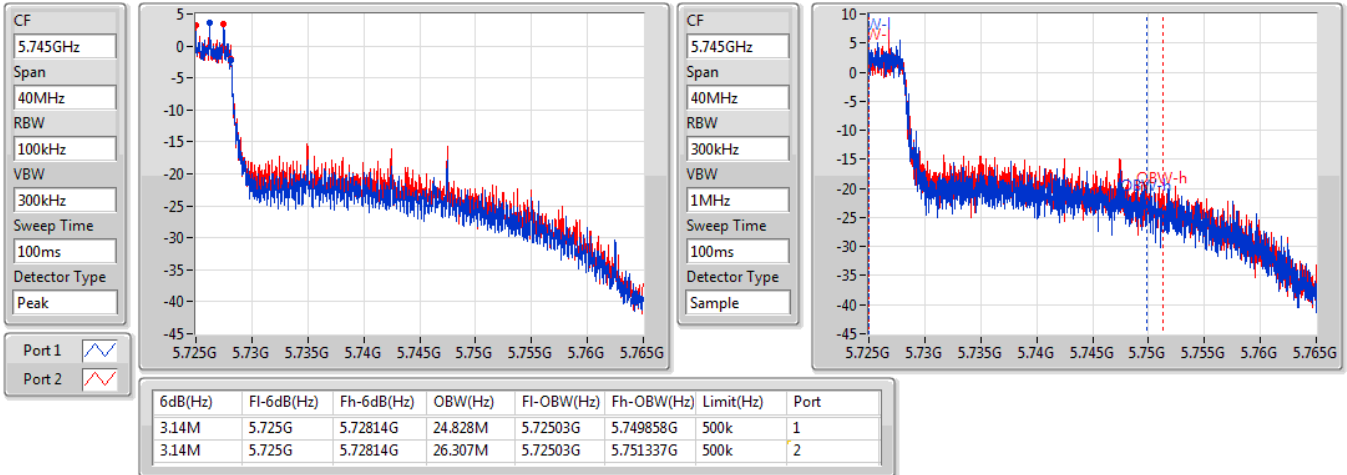


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

08/08/2019

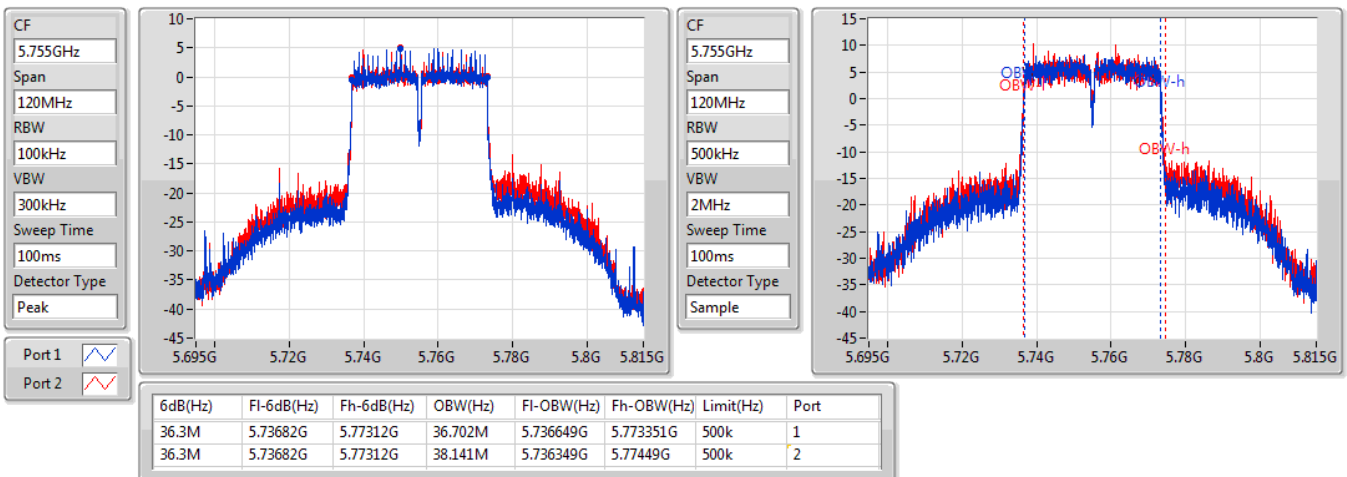


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

08/08/2019

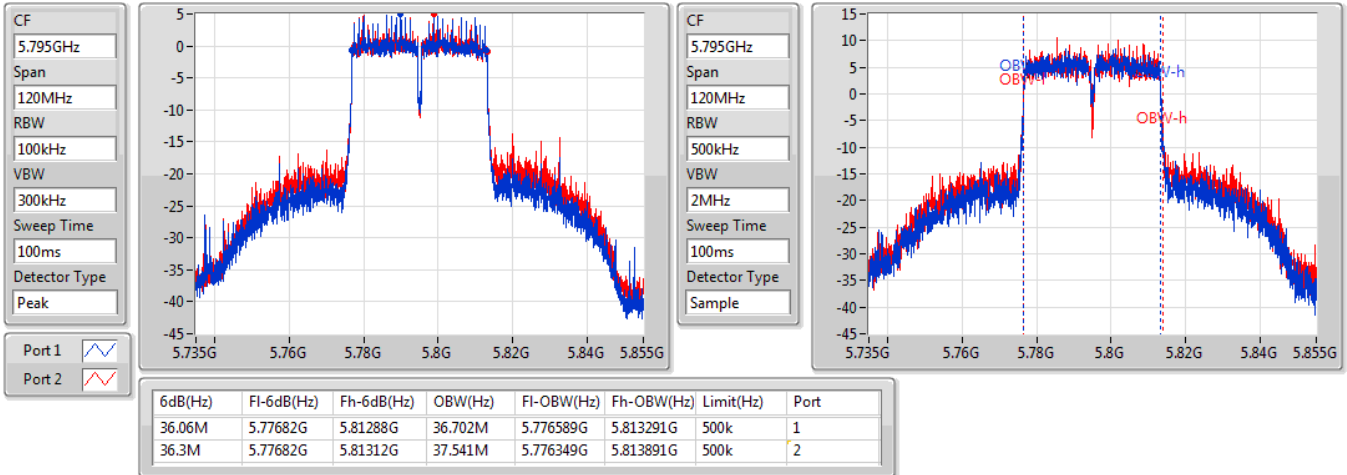


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

08/08/2019

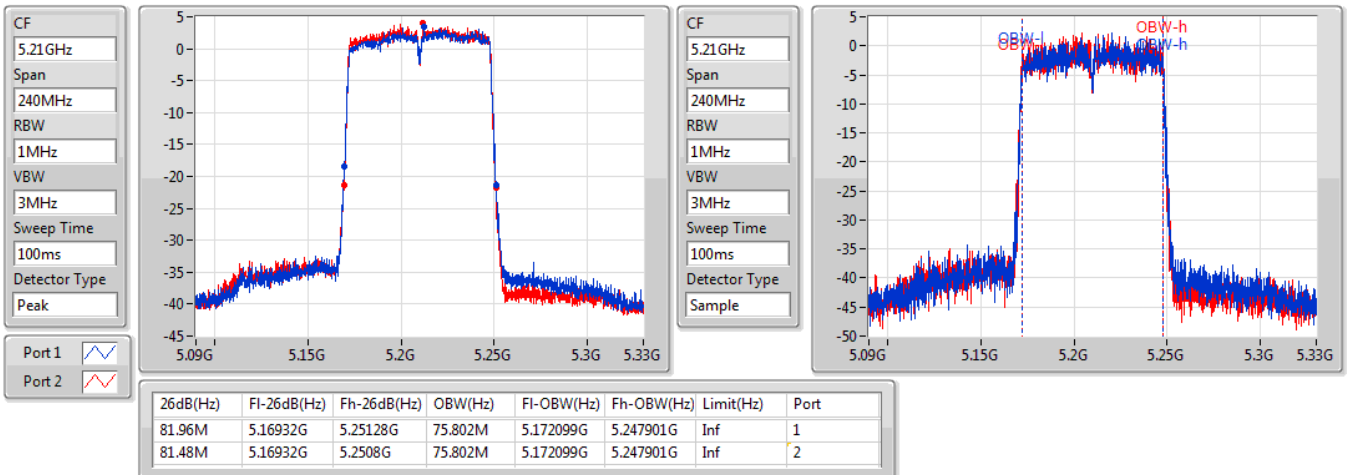


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

26/11/2019

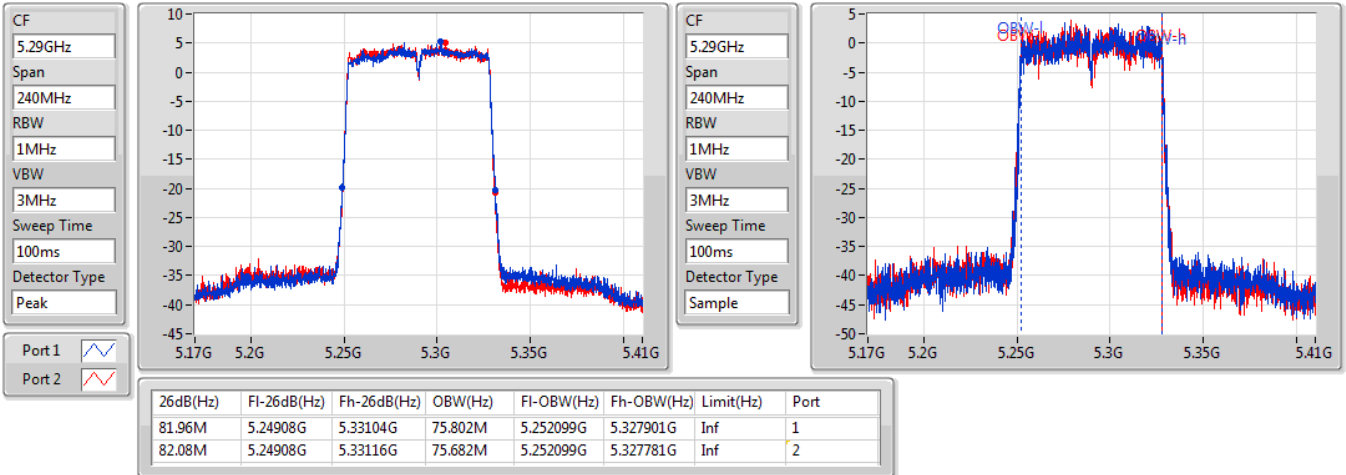


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5290MHz

08/08/2019

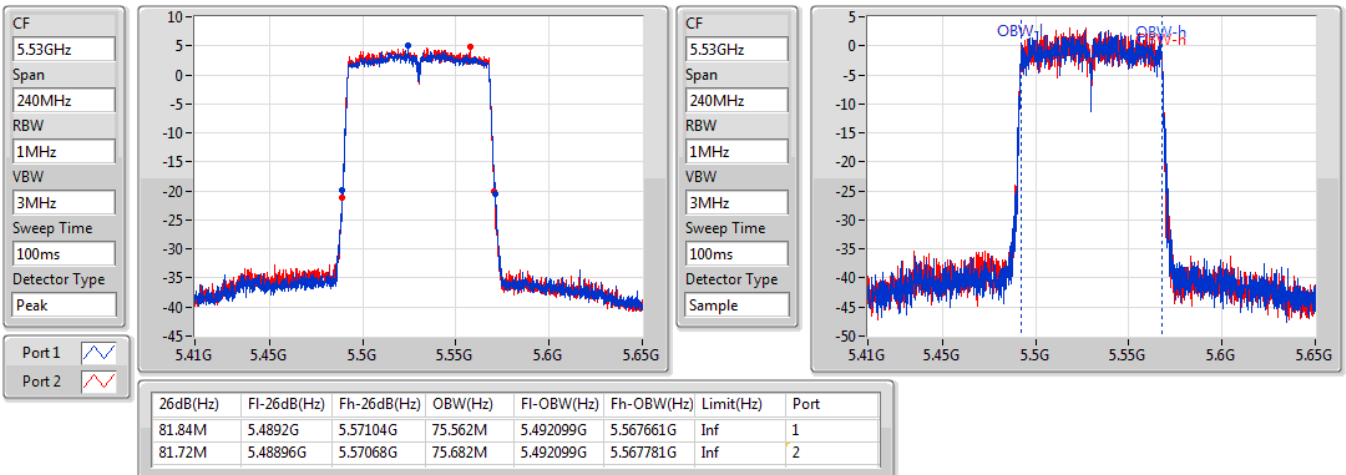


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5530MHz

08/08/2019

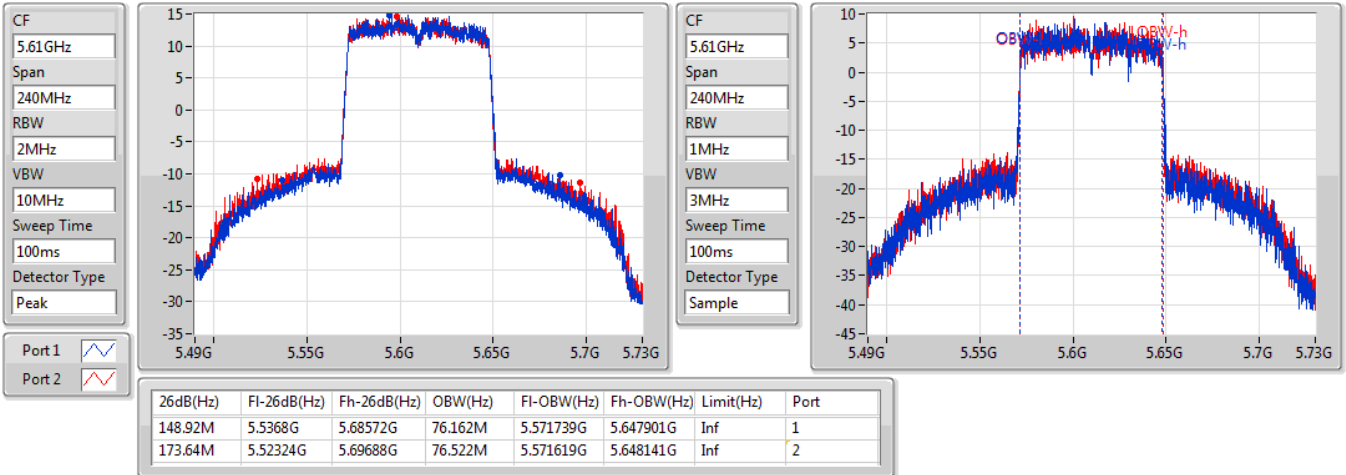


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5610MHz

08/08/2019

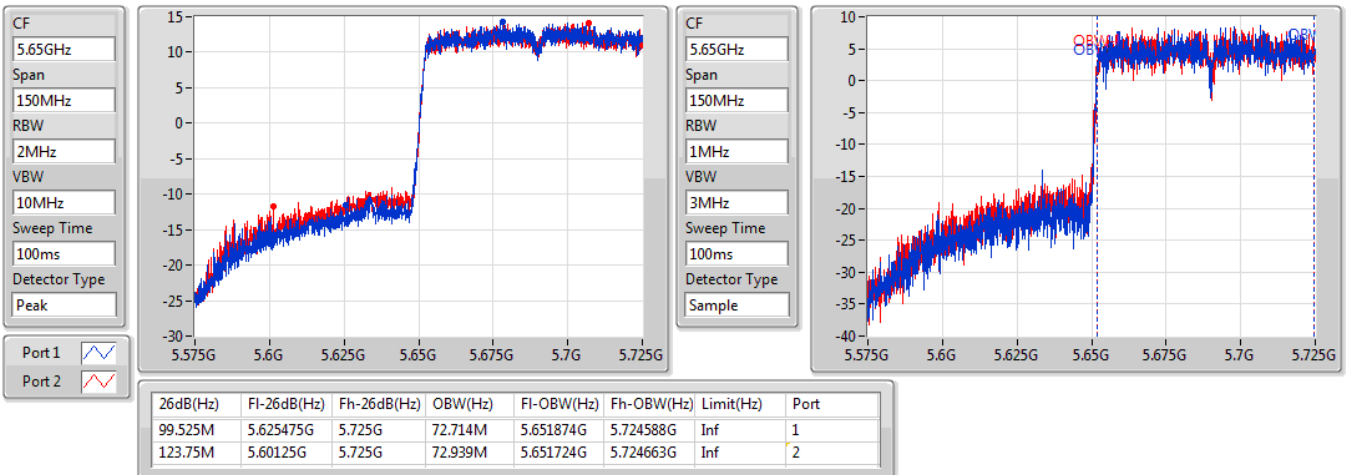


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

08/08/2019

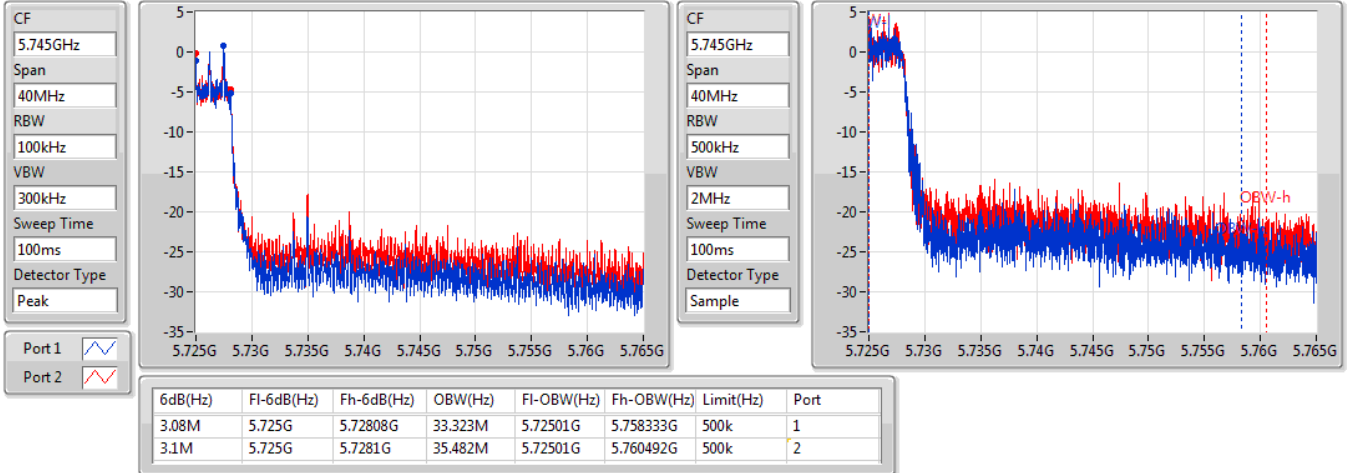


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

08/08/2019

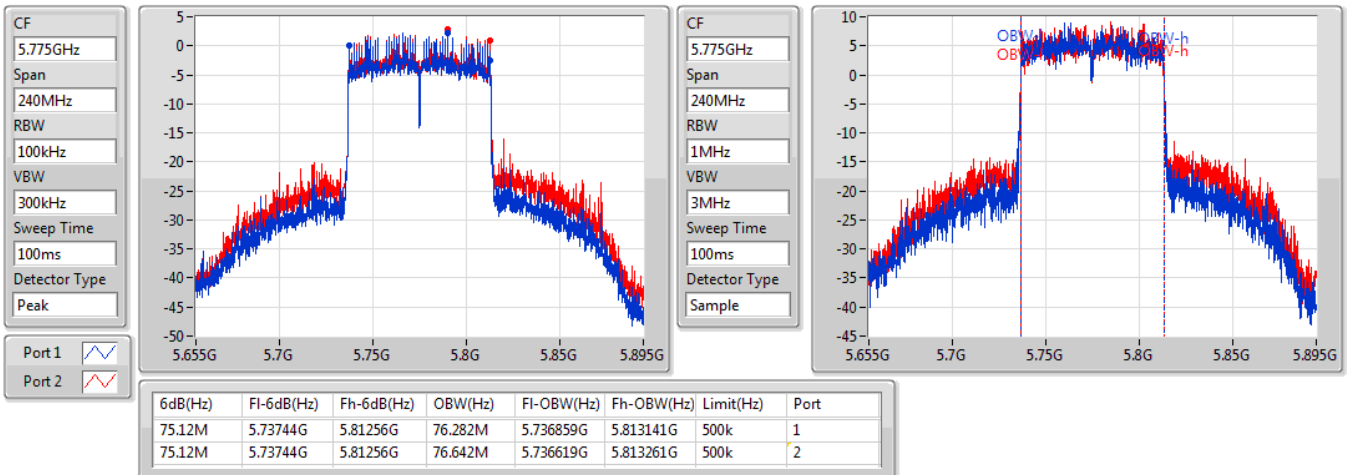


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

08/08/2019





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.52	0.14191	23.12	0.20512
802.11ac VHT20_Nss1,(MCS0)_2TX	22.67	0.18493	24.27	0.26730
802.11ac VHT40_Nss1,(MCS0)_2TX	22.12	0.16293	23.72	0.23550
802.11ac VHT80_Nss1,(MCS0)_2TX	15.86	0.03855	17.46	0.05572
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.48	0.14060	23.31	0.21429
802.11ac VHT20_Nss1,(MCS0)_2TX	22.74	0.18793	24.57	0.28642
802.11ac VHT40_Nss1,(MCS0)_2TX	22.48	0.17701	24.31	0.26977
802.11ac VHT80_Nss1,(MCS0)_2TX	16.29	0.04256	18.12	0.06486
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.79	0.15101	23.77	0.23823
802.11ac VHT20_Nss1,(MCS0)_2TX	23.09	0.20370	25.07	0.32137
802.11ac VHT40_Nss1,(MCS0)_2TX	22.83	0.19187	24.81	0.30269
802.11ac VHT80_Nss1,(MCS0)_2TX	21.81	0.15171	23.79	0.23933
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.71	0.11776	22.61	0.18239
802.11ac VHT20_Nss1,(MCS0)_2TX	22.28	0.16904	24.18	0.26182
802.11ac VHT40_Nss1,(MCS0)_2TX	22.14	0.16368	24.04	0.25351
802.11ac VHT80_Nss1,(MCS0)_2TX	21.65	0.14622	23.55	0.22646



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	-	-	-	-	-	-	-	-
5180MHz	Pass	1.60	16.23	17.55	19.95	23.98	21.55	30.00
5200MHz	Pass	1.60	16.82	18.11	20.52	23.98	22.12	30.00
5240MHz	Pass	1.60	18.25	18.75	21.52	23.98	23.12	30.00
5260MHz	Pass	1.83	18.25	18.67	21.48	23.98	23.31	26.99
5300MHz	Pass	1.83	17.93	18.38	21.17	23.98	23.00	26.99
5320MHz	Pass	1.83	18.27	18.47	21.38	23.98	23.21	26.99
5500MHz	Pass	1.98	17.28	17.15	20.23	23.98	22.21	26.99
5580MHz	Pass	1.98	18.84	18.71	21.79	23.98	23.77	26.99
5700MHz	Pass	1.98	16.26	15.46	18.89	23.98	20.87	26.99
5720MHz Straddle 5.47-5.725GHz	Pass	1.98	16.61	16.52	19.58	22.96	21.56	26.99
5720MHz Straddle 5.725-5.85GHz	Pass	1.90	10.35	10.19	13.28	30.00	15.18	36.00
5745MHz	Pass	1.90	17.56	17.81	20.70	30.00	22.60	36.00
5785MHz	Pass	1.90	17.61	17.79	20.71	30.00	22.61	36.00
5825MHz	Pass	1.90	17.28	17.65	20.48	30.00	22.38	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	1.60	16.89	18.23	20.62	23.98	22.22	30.00
5200MHz	Pass	1.60	17.99	19.27	21.69	23.98	23.29	30.00
5240MHz	Pass	1.60	19.29	20.00	22.67	23.98	24.27	30.00
5260MHz	Pass	1.83	19.32	20.10	22.74	23.98	24.57	26.99
5300MHz	Pass	1.83	19.36	19.71	22.55	23.98	24.38	26.99
5320MHz	Pass	1.83	19.50	19.83	22.68	23.98	24.51	26.99
5500MHz	Pass	1.98	17.13	17.11	20.13	23.98	22.11	26.99
5580MHz	Pass	1.98	20.21	19.94	23.09	23.98	25.07	26.99
5700MHz	Pass	1.98	15.90	14.98	18.47	23.98	20.45	26.99
5720MHz Straddle 5.47-5.725GHz	Pass	1.98	17.94	17.83	20.90	23.98	22.88	26.99
5720MHz Straddle 5.725-5.85GHz	Pass	1.90	12.18	12.10	15.15	30.00	17.05	36.00
5745MHz	Pass	1.90	19.16	19.08	22.13	30.00	24.03	36.00
5785MHz	Pass	1.90	19.19	19.35	22.28	30.00	24.18	36.00
5825MHz	Pass	1.90	18.86	19.22	22.05	30.00	23.95	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	1.60	13.36	12.79	16.09	23.98	17.69	30.00
5230MHz	Pass	1.60	18.55	19.60	22.12	23.98	23.72	30.00
5270MHz	Pass	1.83	19.15	19.77	22.48	23.98	24.31	26.99
5310MHz	Pass	1.83	13.75	13.71	16.74	23.98	18.57	26.99
5510MHz	Pass	1.98	14.68	14.39	17.55	23.98	19.53	26.99
5550MHz	Pass	1.98	19.91	19.73	22.83	23.98	24.81	26.99
5670MHz	Pass	1.98	19.07	18.79	21.94	23.98	23.92	26.99
5710MHz Straddle 5.47-5.725GHz	Pass	1.98	18.51	18.15	21.34	23.98	23.32	26.99
5710MHz Straddle 5.725-5.85GHz	Pass	1.90	8.18	7.87	11.04	30.00	12.94	36.00
5755MHz	Pass	1.90	19.11	19.08	22.11	30.00	24.01	36.00
5795MHz	Pass	1.90	19.10	19.15	22.14	30.00	24.04	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	1.60	12.84	12.85	15.86	23.98	17.46	30.00

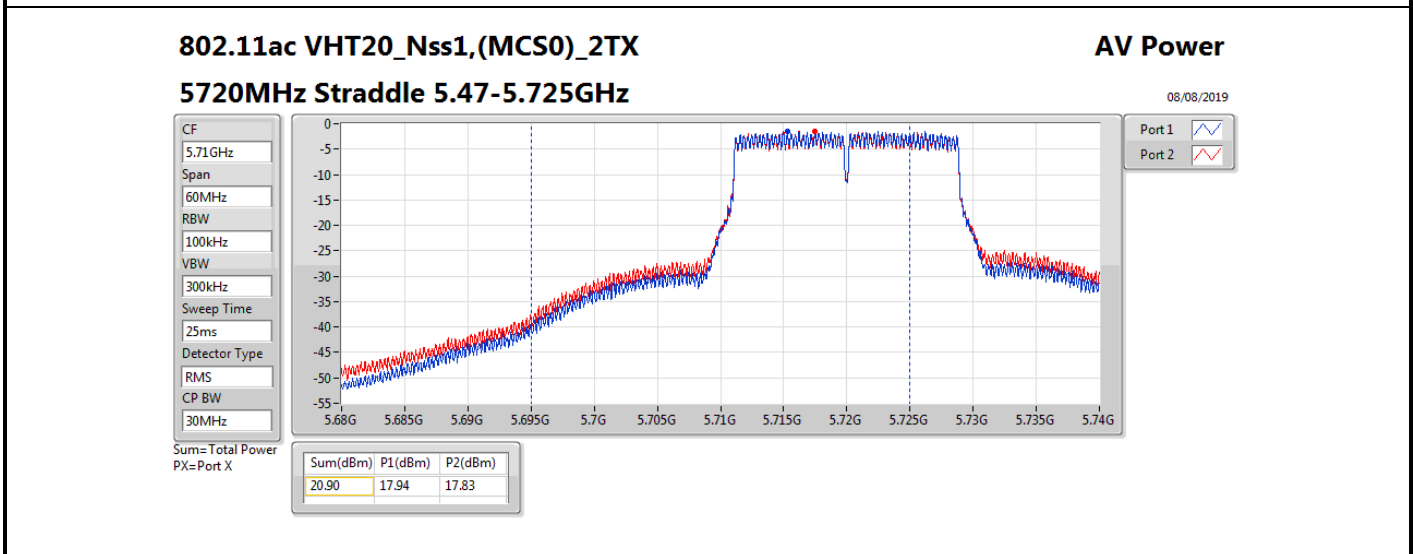
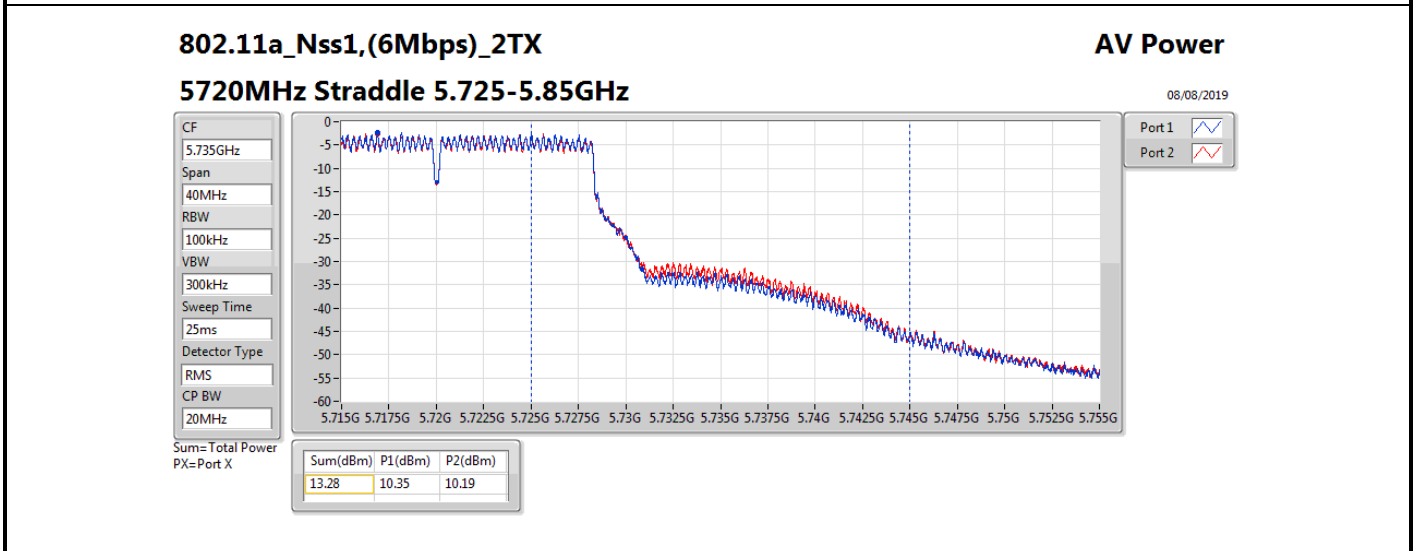
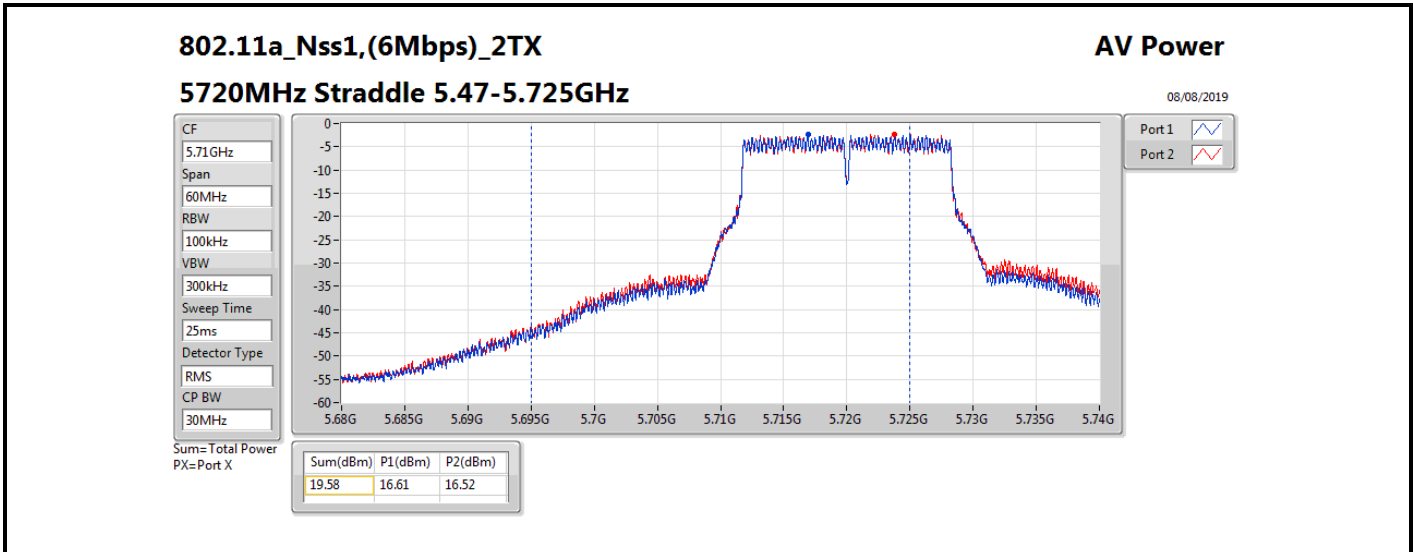


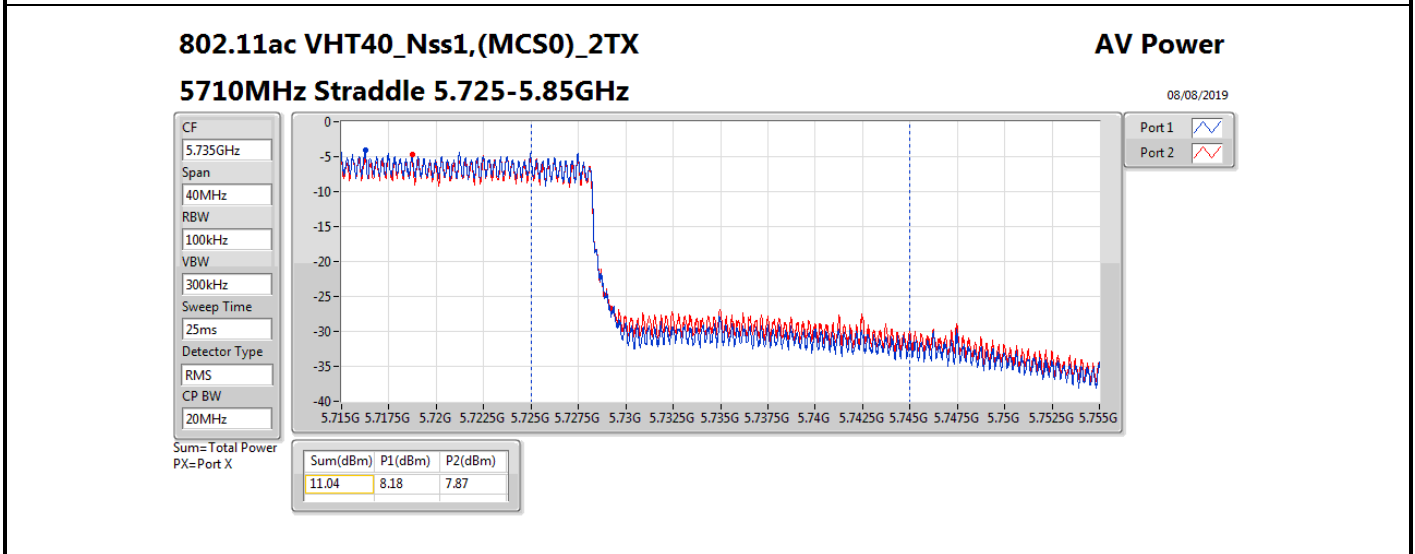
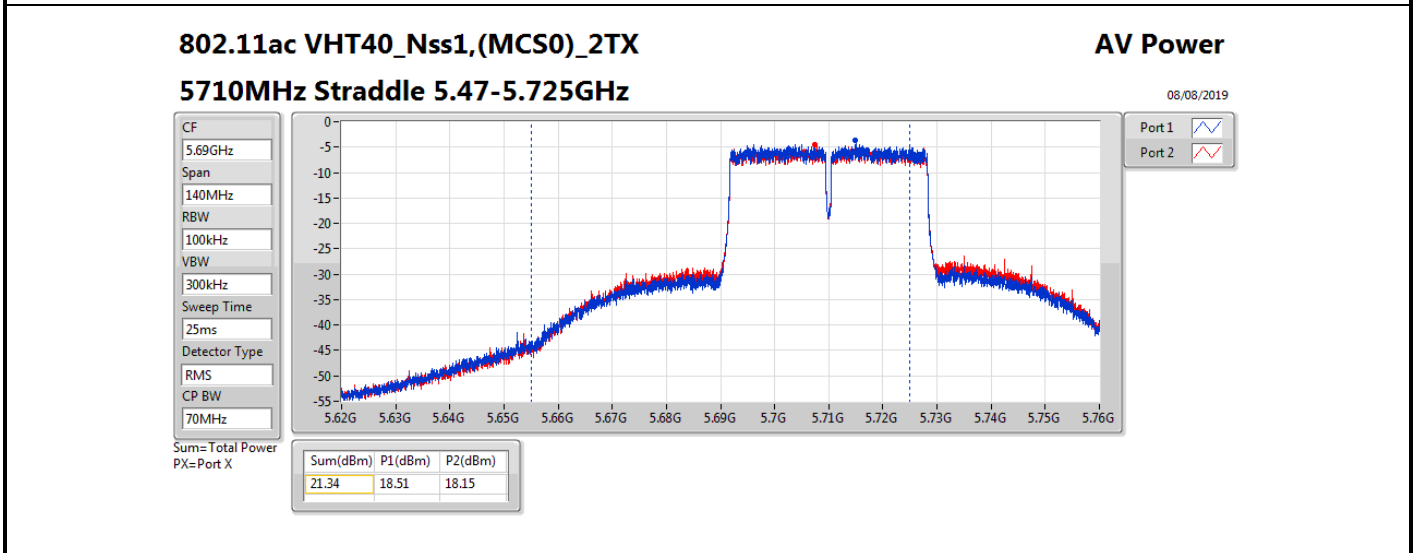
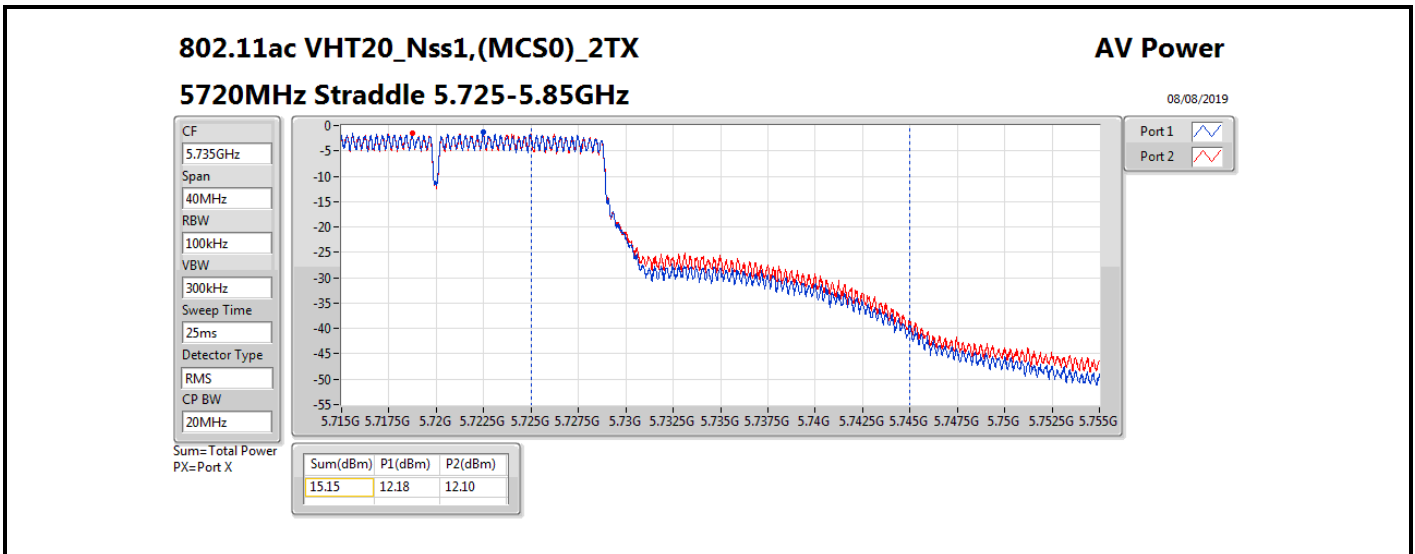
Average Power

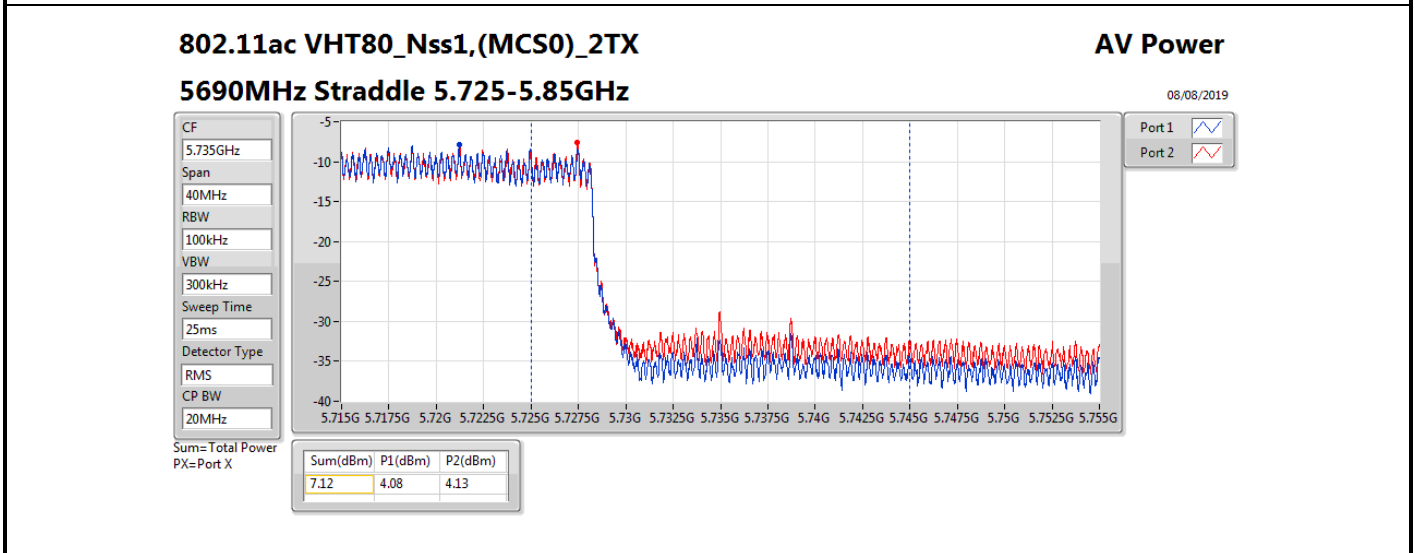
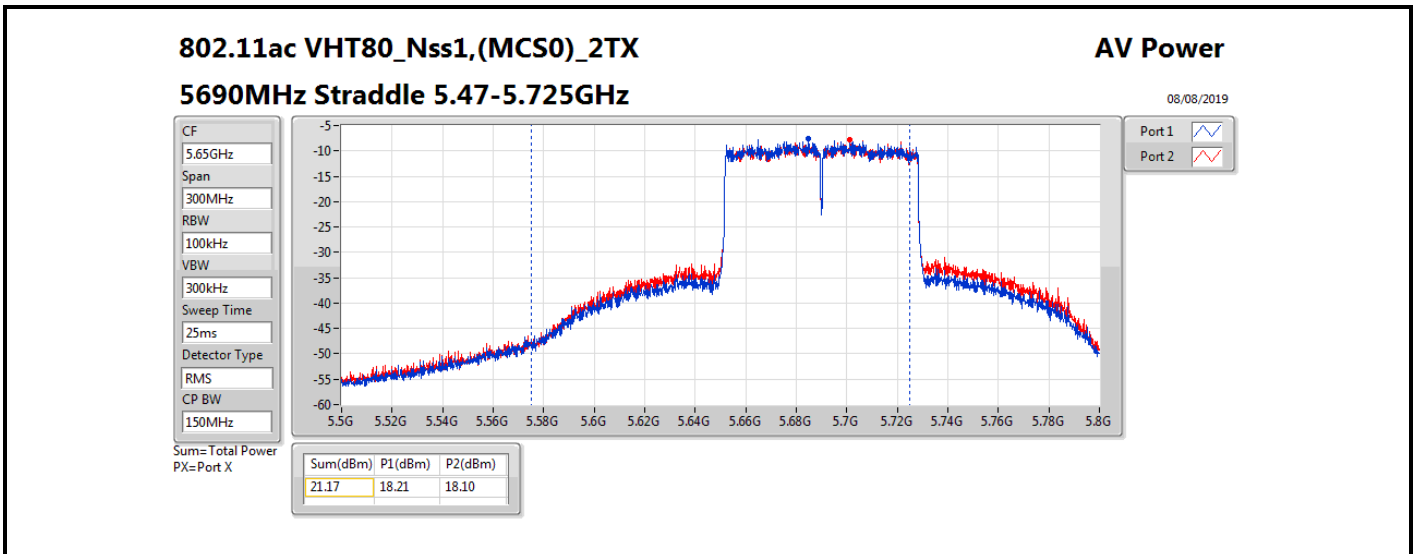
Appendix C

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5290MHz	Pass	1.83	13.48	13.07	16.29	23.98	18.12	26.99
5530MHz	Pass	1.98	13.08	13.02	16.06	23.98	18.04	26.99
5610MHz	Pass	1.98	18.85	18.74	21.81	23.98	23.79	26.99
5690MHz Straddle 5.47-5.725GHz	Pass	1.98	18.21	18.10	21.17	23.98	23.15	26.99
5690MHz Straddle 5.725-5.85GHz	Pass	1.90	4.08	4.13	7.12	30.00	9.02	36.00
5775MHz	Pass	1.90	18.55	18.73	21.65	30.00	23.55	36.00

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









Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.29	12.84
802.11ac VHT20_Nss1,(MCS0)_2TX	9.13	13.68
802.11ac VHT40_Nss1,(MCS0)_2TX	5.67	10.22
802.11ac VHT80_Nss1,(MCS0)_2TX	-4.11	0.44
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.36	12.85
802.11ac VHT20_Nss1,(MCS0)_2TX	9.21	13.70
802.11ac VHT40_Nss1,(MCS0)_2TX	6.05	10.54
802.11ac VHT80_Nss1,(MCS0)_2TX	-2.84	1.65
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.61	13.56
802.11ac VHT20_Nss1,(MCS0)_2TX	9.56	14.51
802.11ac VHT40_Nss1,(MCS0)_2TX	6.32	11.27
802.11ac VHT80_Nss1,(MCS0)_2TX	2.66	7.61
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	5.87	10.58
802.11ac VHT20_Nss1,(MCS0)_2TX	7.22	11.93
802.11ac VHT40_Nss1,(MCS0)_2TX	4.33	9.04
802.11ac VHT80_Nss1,(MCS0)_2TX	1.11	5.82

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



Result

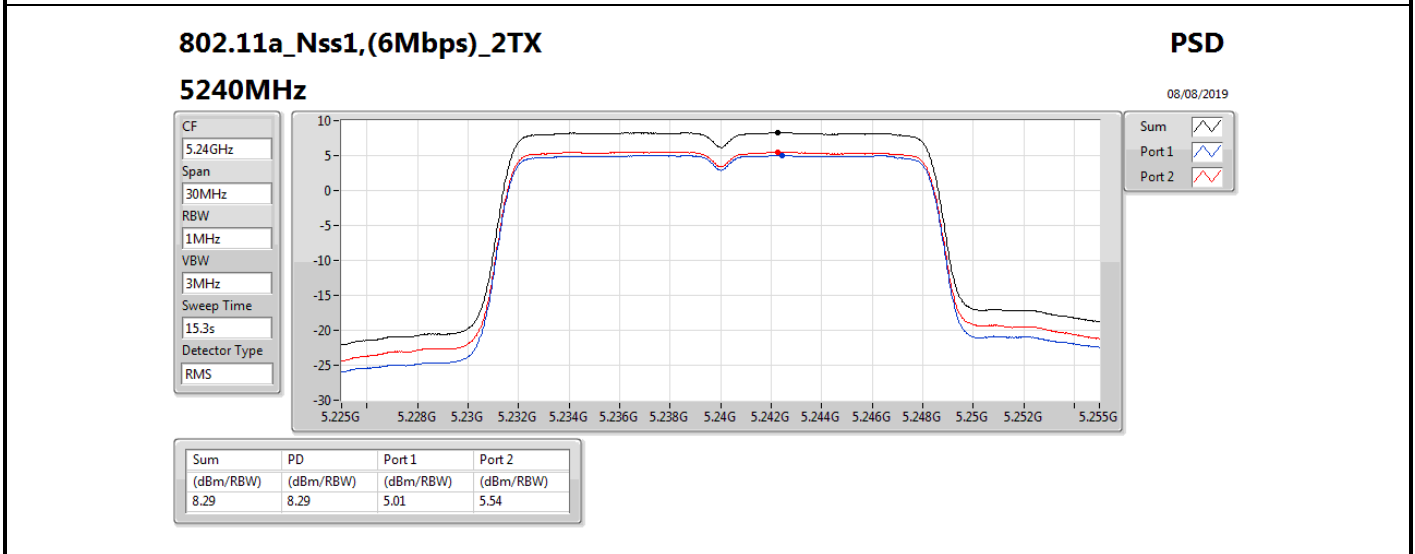
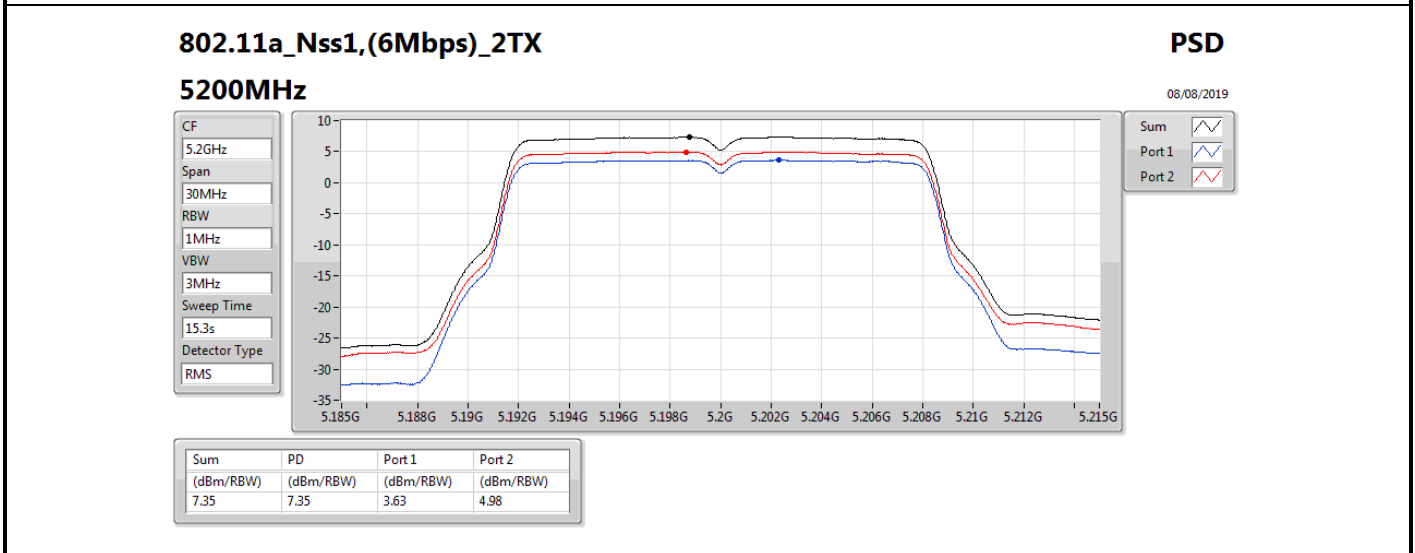
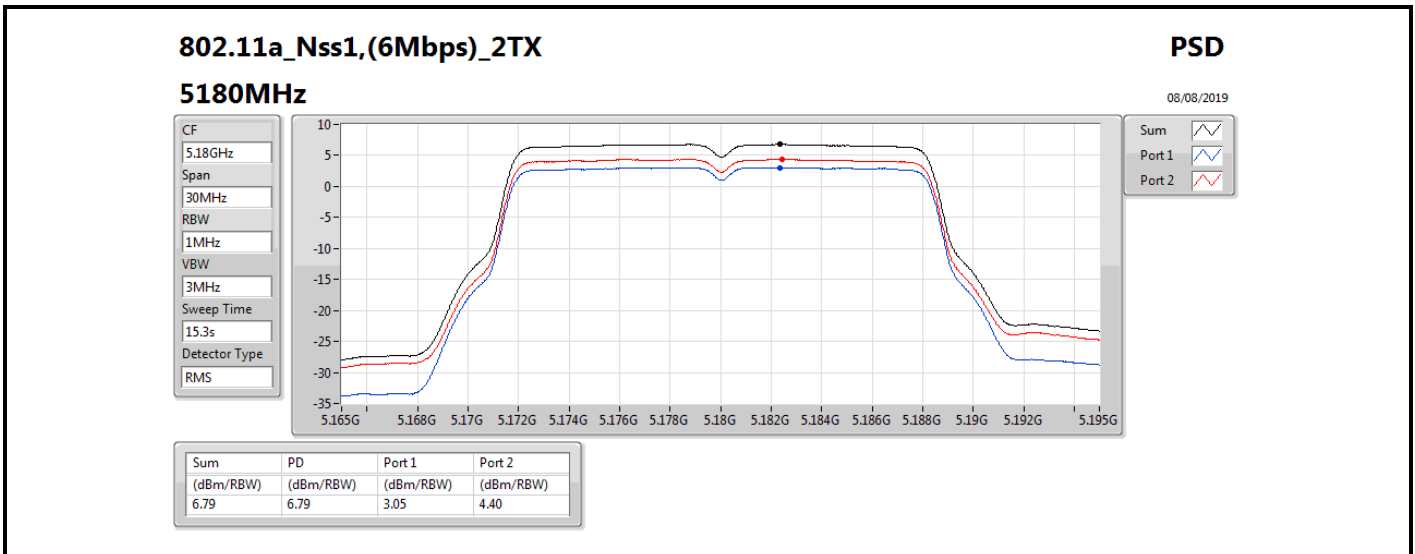
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.55	3.05	4.40	6.79	11.00	11.34	17.00
5200MHz	Pass	4.55	3.63	4.98	7.35	11.00	11.90	17.00
5240MHz	Pass	4.55	5.01	5.54	8.29	11.00	12.84	17.00
5260MHz	Pass	4.49	5.10	5.59	8.36	11.00	12.85	17.00
5300MHz	Pass	4.49	4.80	5.35	8.09	11.00	12.58	17.00
5320MHz	Pass	4.49	5.09	5.32	8.21	11.00	12.70	17.00
5500MHz	Pass	4.95	4.04	3.97	7.00	11.00	11.95	17.00
5580MHz	Pass	4.95	5.64	5.56	8.61	11.00	13.56	17.00
5700MHz	Pass	4.95	3.10	2.38	5.72	11.00	10.67	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.95	4.55	4.41	7.47	11.00	12.42	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.71	2.63	2.40	5.52	30.00	10.23	36.00
5745MHz	Pass	4.71	2.68	2.99	5.82	30.00	10.53	36.00
5785MHz	Pass	4.71	2.75	3.03	5.87	30.00	10.58	36.00
5825MHz	Pass	4.71	2.34	2.81	5.58	30.00	10.29	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.55	3.29	4.61	6.98	11.00	11.53	17.00
5200MHz	Pass	4.55	4.45	5.76	8.14	11.00	12.69	17.00
5240MHz	Pass	4.55	5.74	6.47	9.13	11.00	13.68	17.00
5260MHz	Pass	4.49	5.81	6.62	9.21	11.00	13.70	17.00
5300MHz	Pass	4.49	5.76	6.15	8.96	11.00	13.45	17.00
5320MHz	Pass	4.49	5.90	6.26	9.08	11.00	13.57	17.00
5500MHz	Pass	4.95	3.83	3.52	6.67	11.00	11.62	17.00
5580MHz	Pass	4.95	6.70	6.43	9.56	11.00	14.51	17.00
5700MHz	Pass	4.95	2.29	1.55	4.87	11.00	9.82	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.95	5.58	5.46	8.50	11.00	13.45	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.71	3.87	3.68	6.78	30.00	11.49	36.00
5745MHz	Pass	4.71	4.07	3.99	7.04	30.00	11.75	36.00
5785MHz	Pass	4.71	4.13	4.31	7.22	30.00	11.93	36.00
5825MHz	Pass	4.71	3.80	4.13	6.96	30.00	11.67	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.55	-2.77	-3.40	-0.07	11.00	4.48	17.00
5230MHz	Pass	4.55	2.15	3.17	5.67	11.00	10.22	17.00
5270MHz	Pass	4.49	2.76	3.35	6.05	11.00	10.54	17.00
5310MHz	Pass	4.49	-2.66	-2.67	0.35	11.00	4.84	17.00
5510MHz	Pass	4.95	-1.82	-2.01	1.07	11.00	6.02	17.00
5550MHz	Pass	4.95	3.38	3.24	6.32	11.00	11.27	17.00
5670MHz	Pass	4.95	2.59	2.28	5.45	11.00	10.40	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.95	2.51	2.20	5.37	11.00	10.32	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.71	0.64	0.36	3.51	30.00	8.22	36.00
5755MHz	Pass	4.71	1.35	1.28	4.33	30.00	9.04	36.00
5795MHz	Pass	4.71	1.28	1.26	4.28	30.00	8.99	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.55	-6.98	-7.17	-4.11	11.00	0.44	17.00

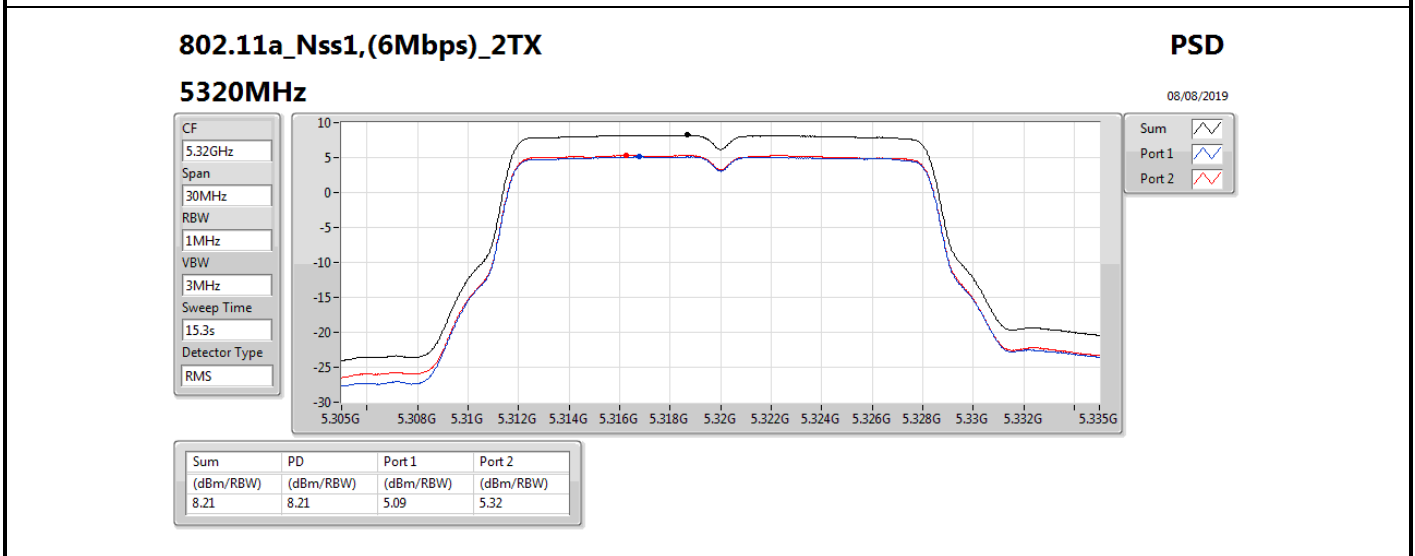
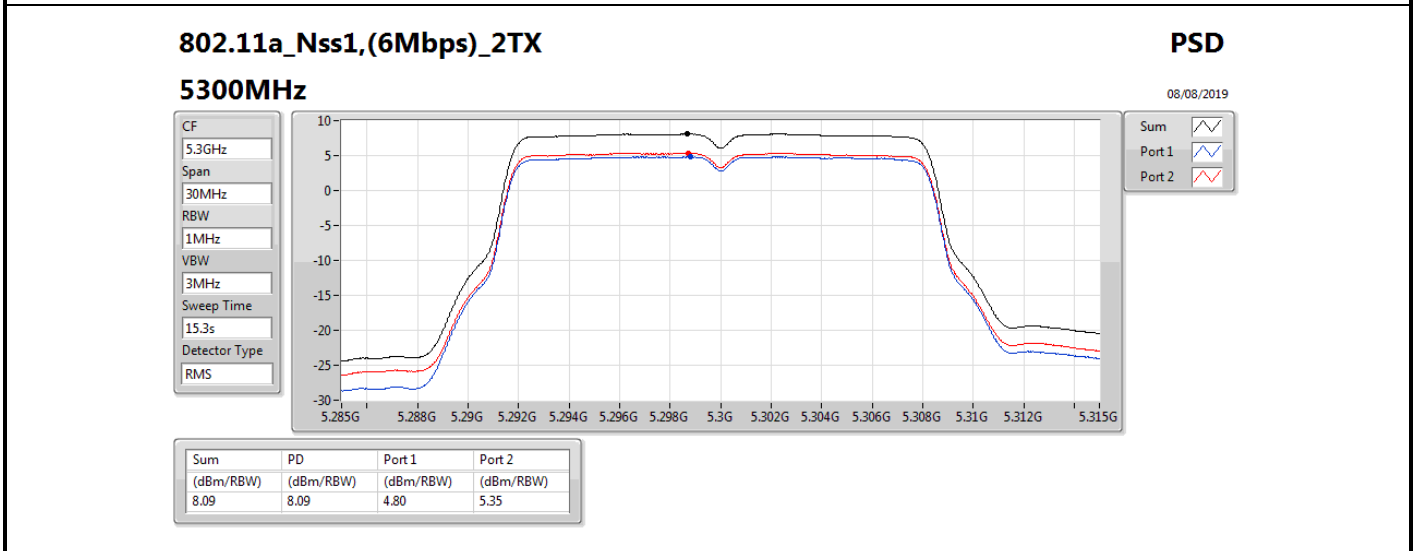
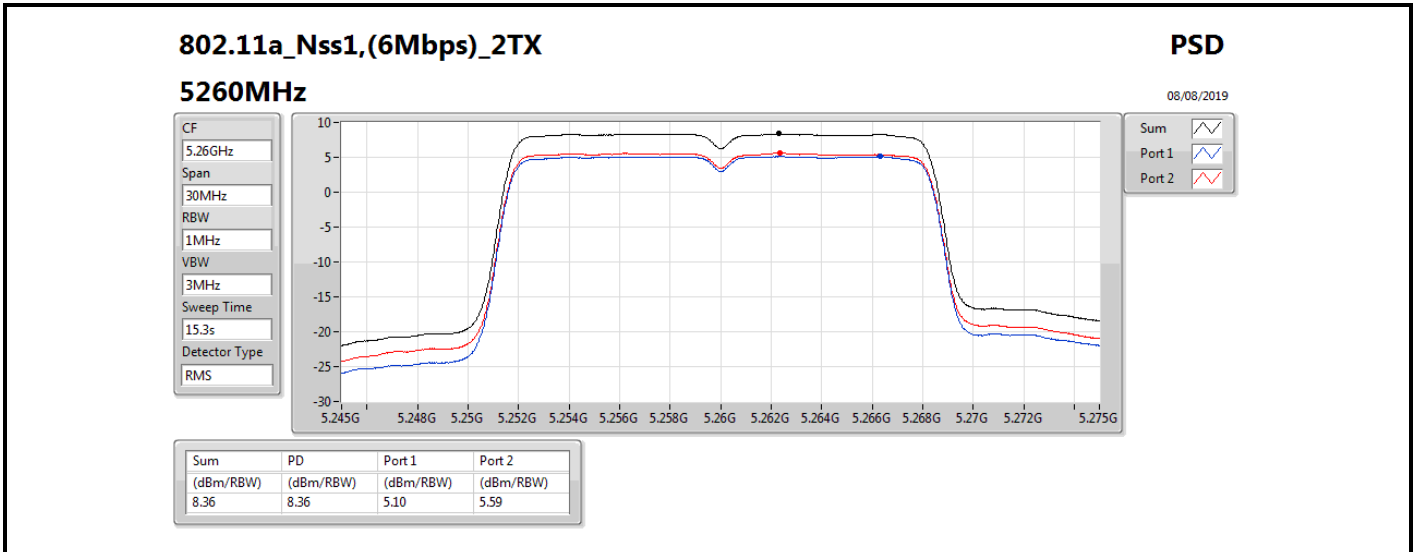


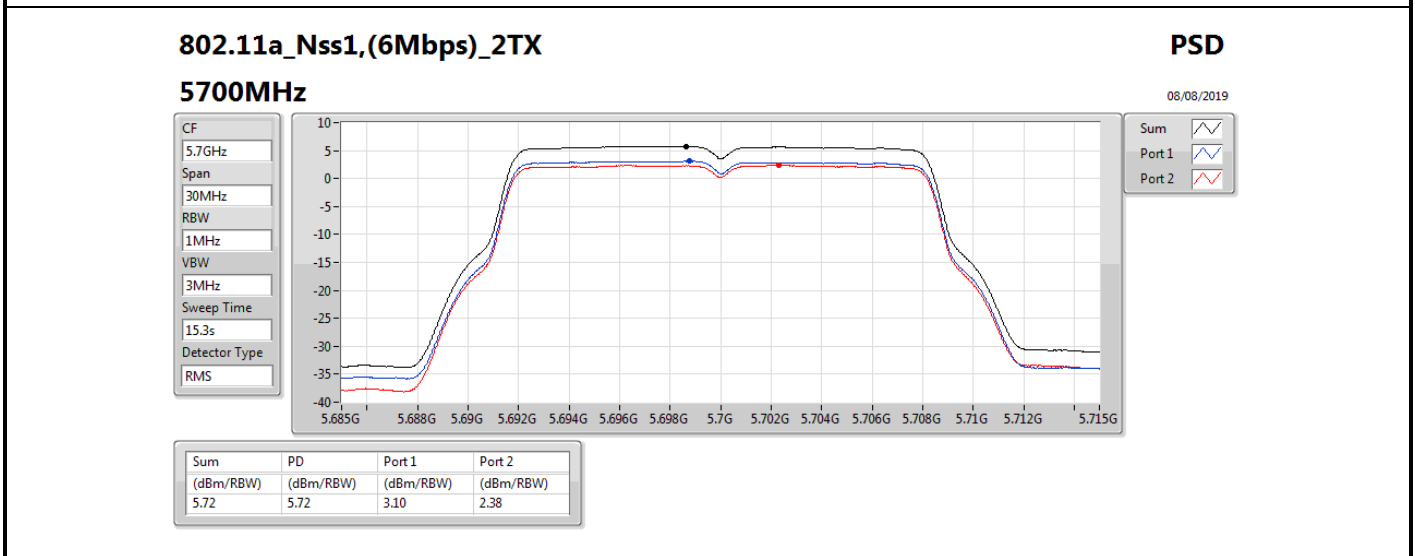
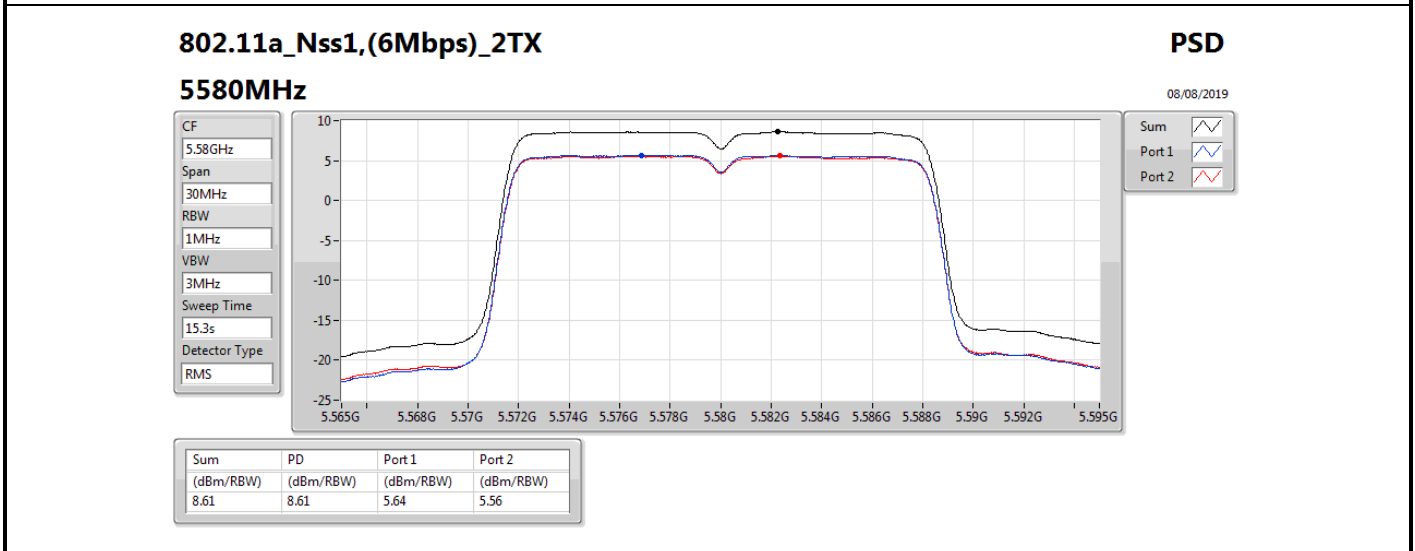
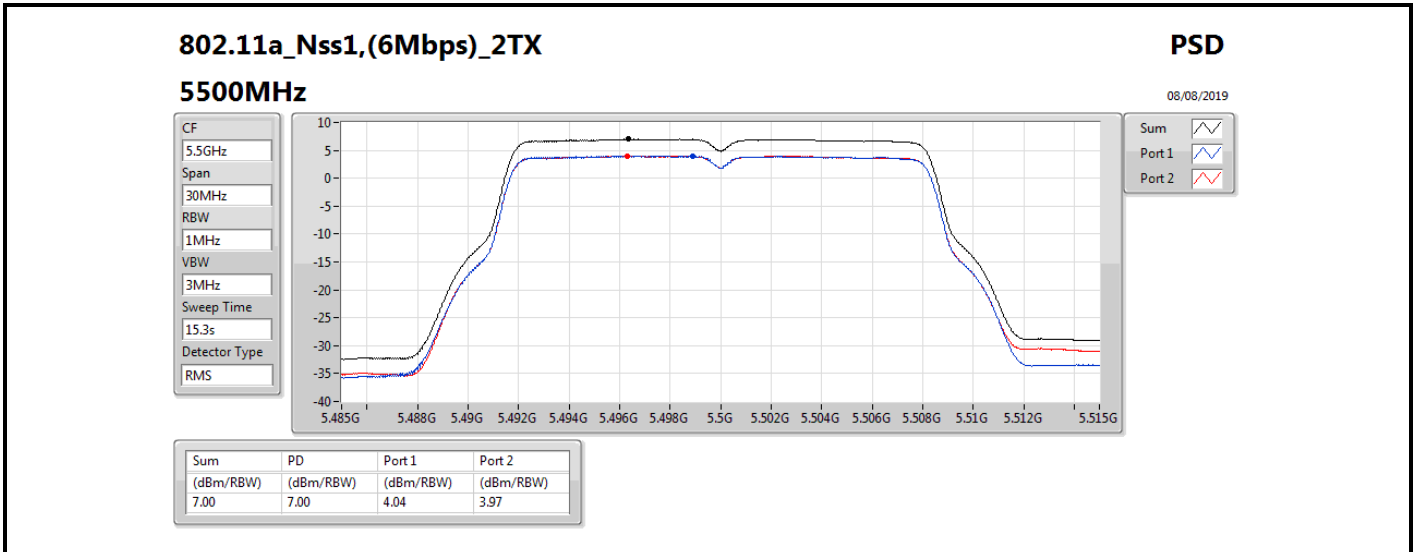
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5290MHz	Pass	4.49	-5.64	-5.89	-2.84	11.00	1.65	17.00
5530MHz	Pass	4.95	-6.11	-6.21	-3.21	11.00	1.74	17.00
5610MHz	Pass	4.95	-0.27	-0.39	2.66	11.00	7.61	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.95	-0.81	-0.89	2.13	11.00	7.08	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.71	-3.33	-3.36	-0.36	30.00	4.35	36.00
5775MHz	Pass	4.71	-1.95	-1.78	1.11	30.00	5.82	36.00

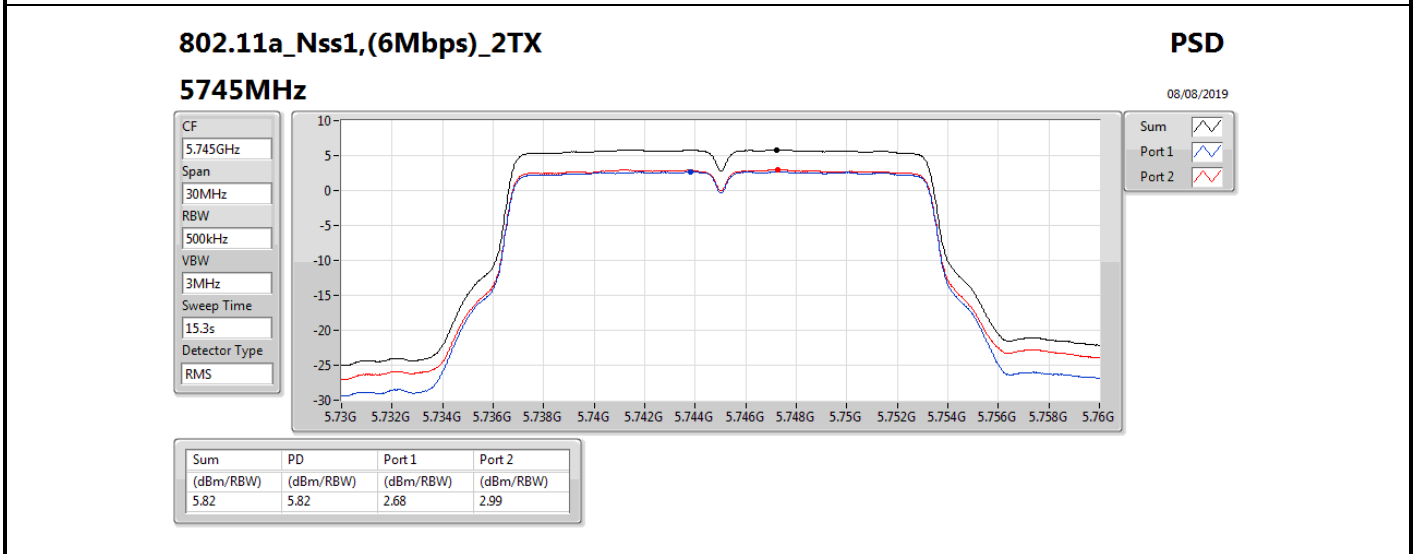
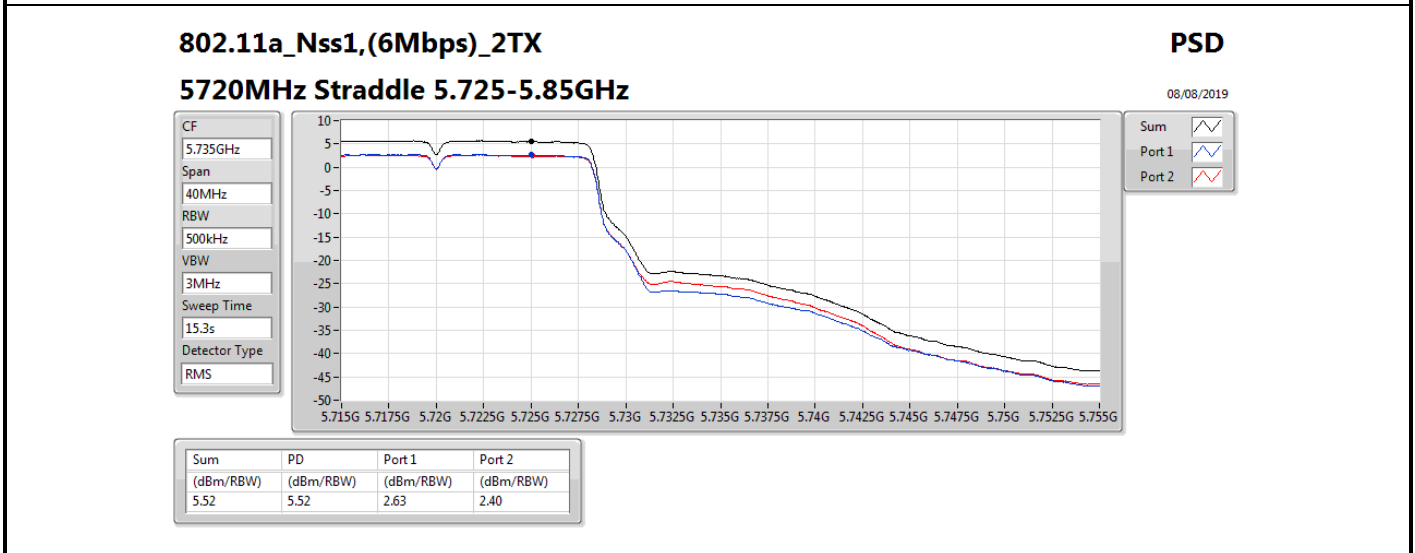
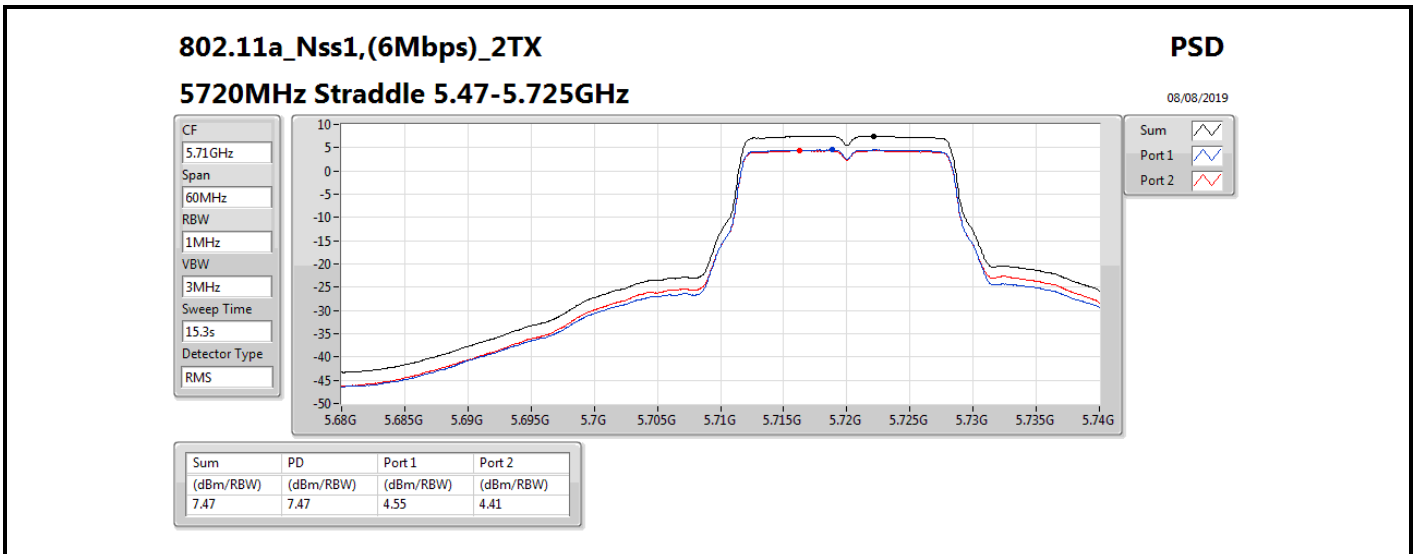
DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

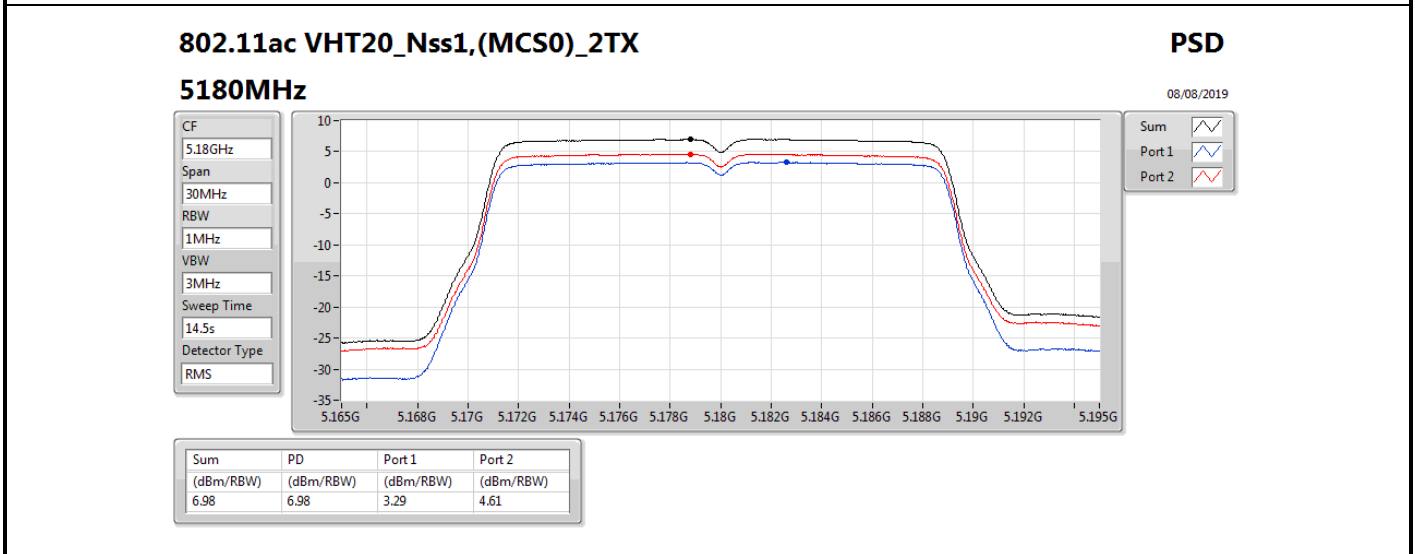
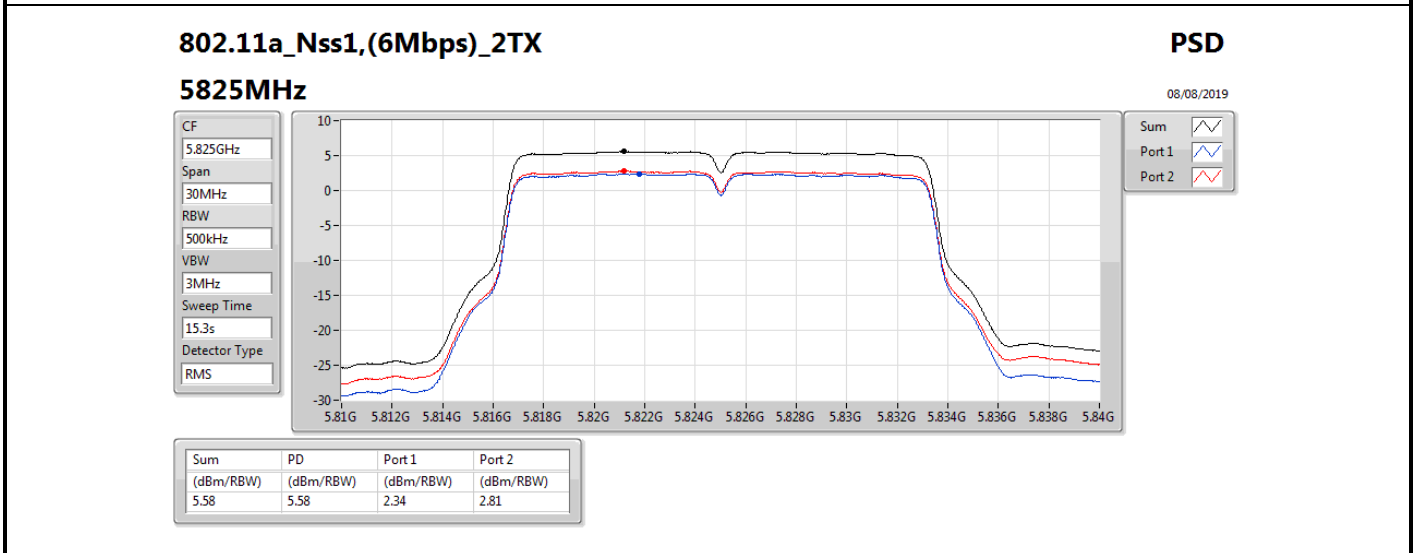
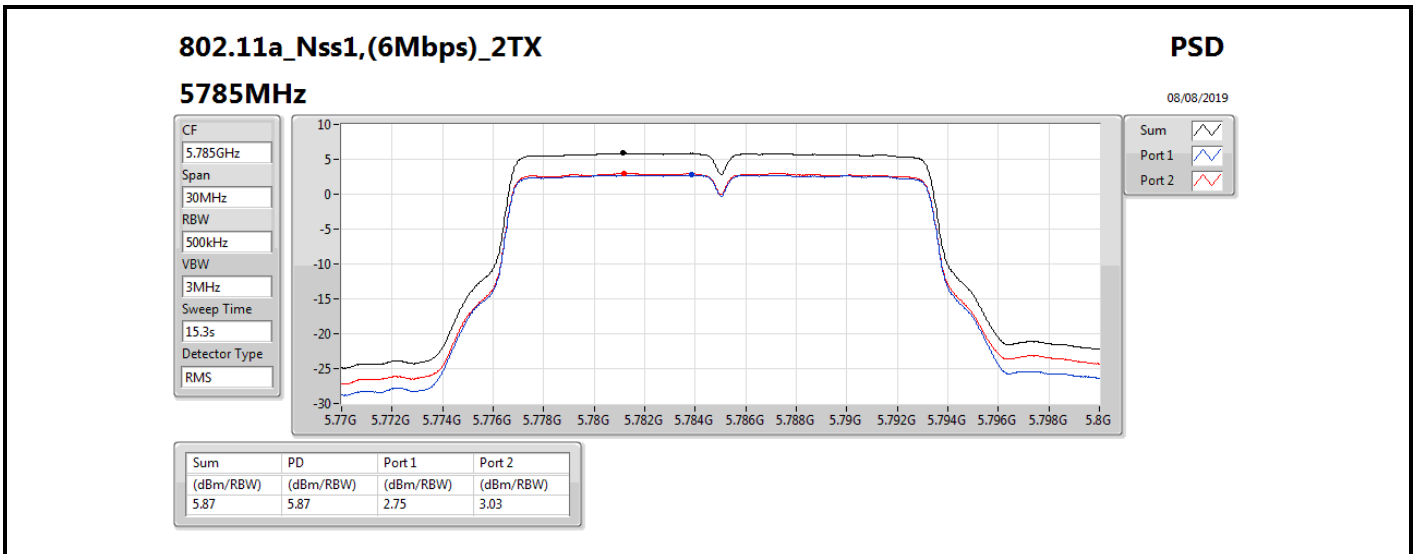
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

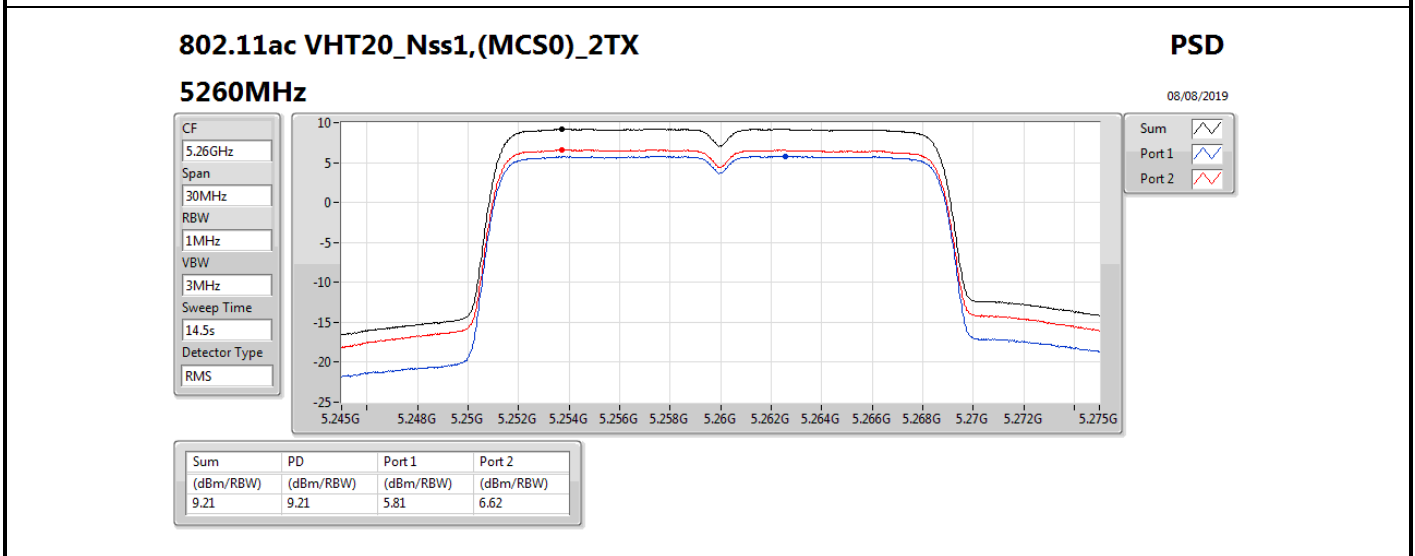
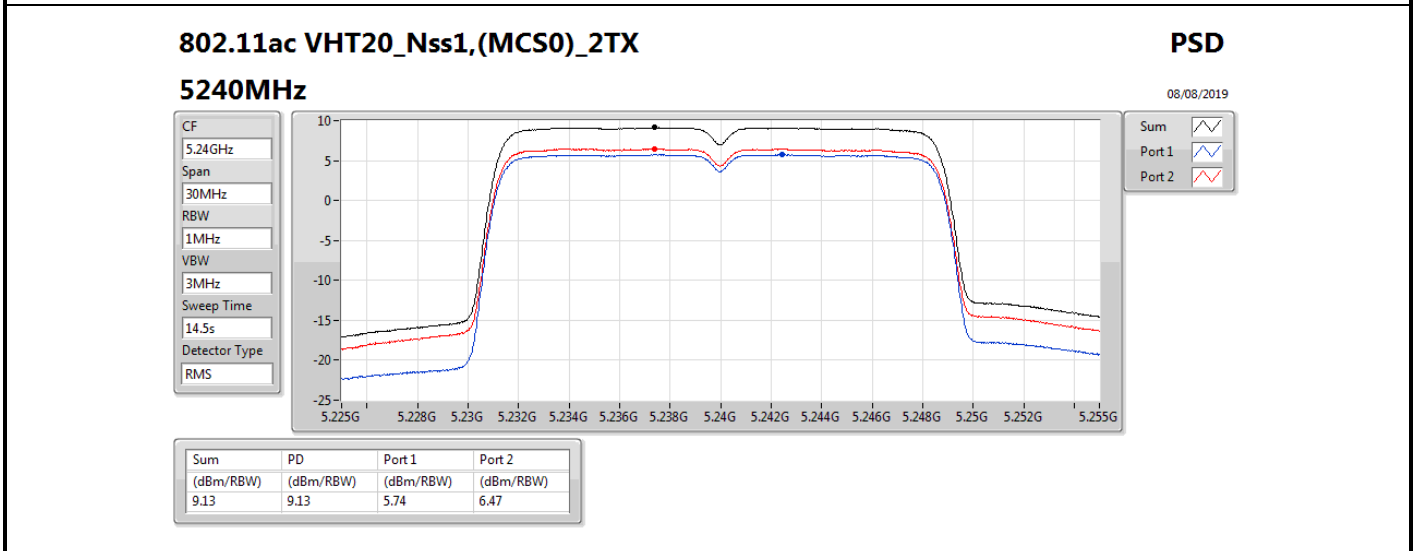
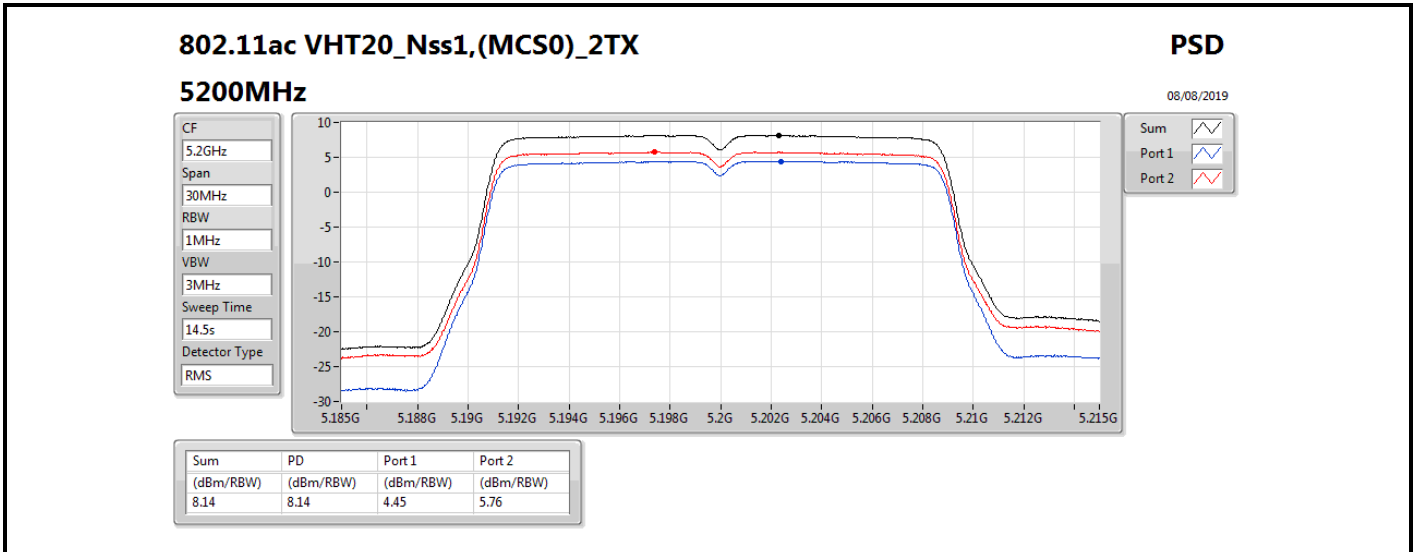


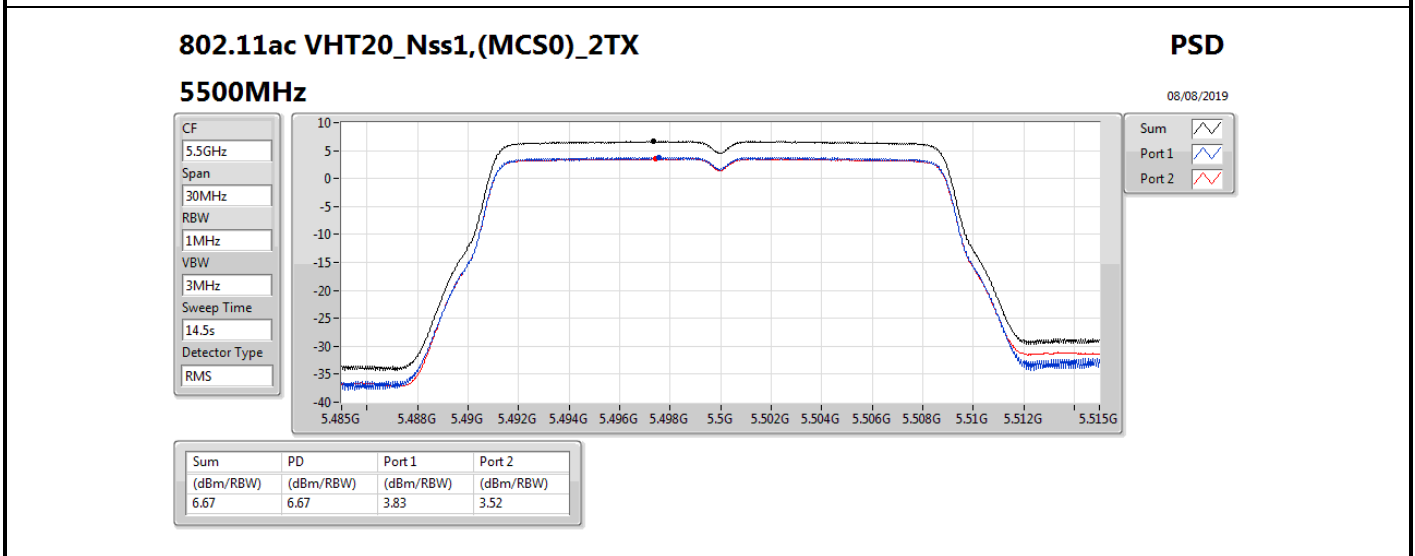
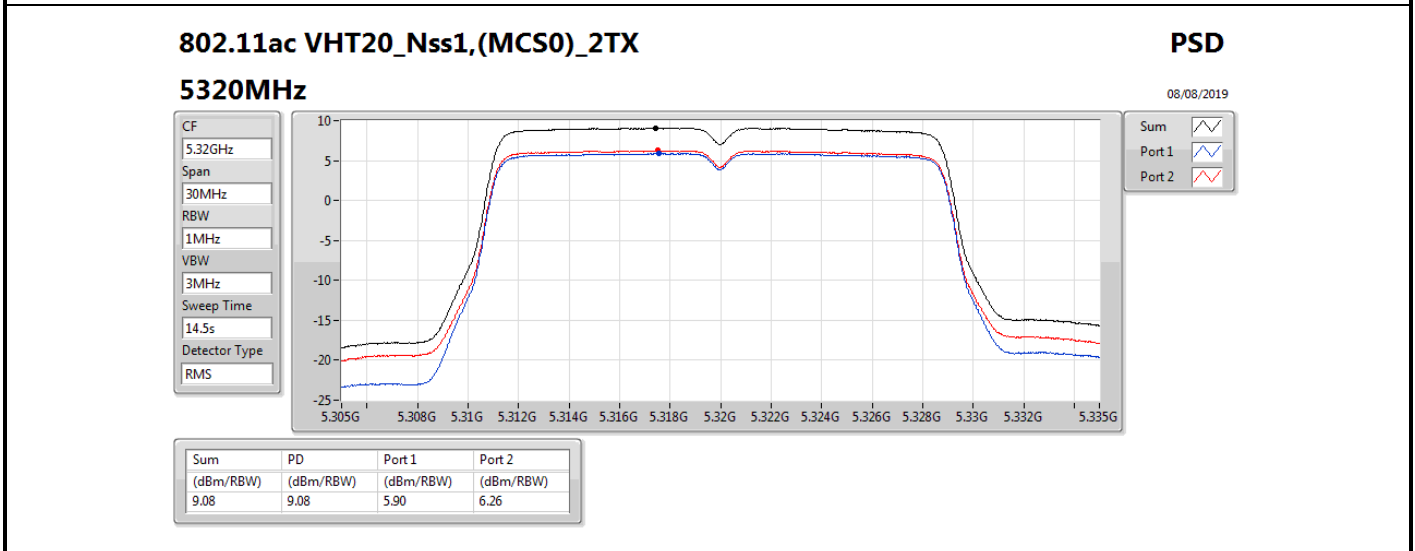
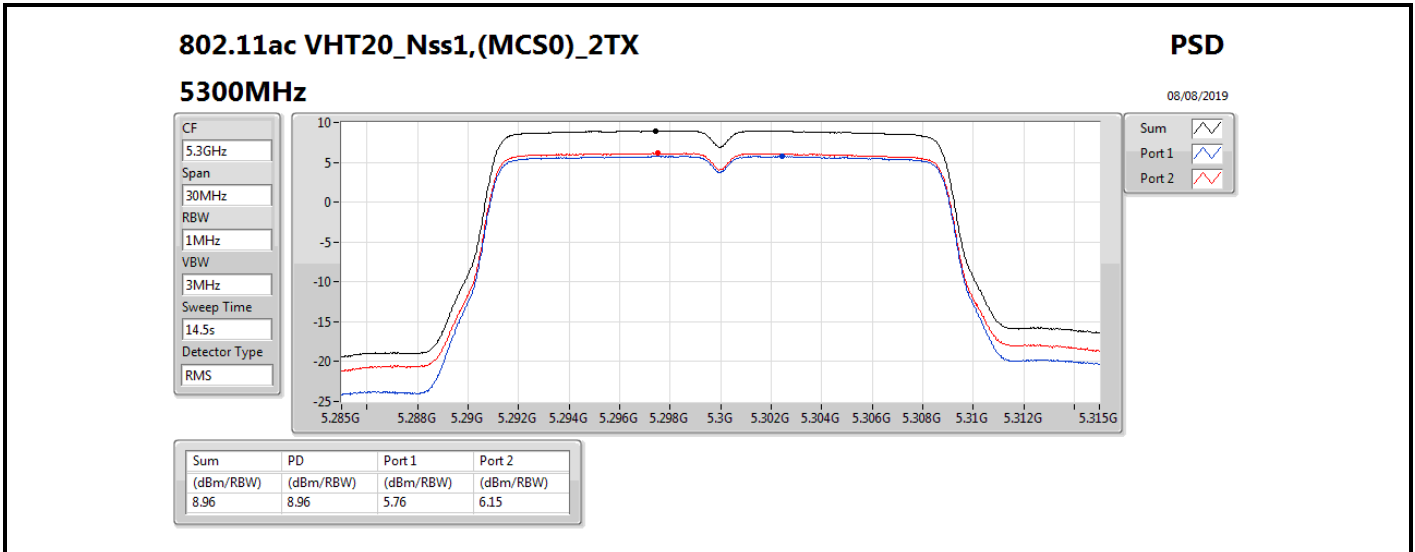


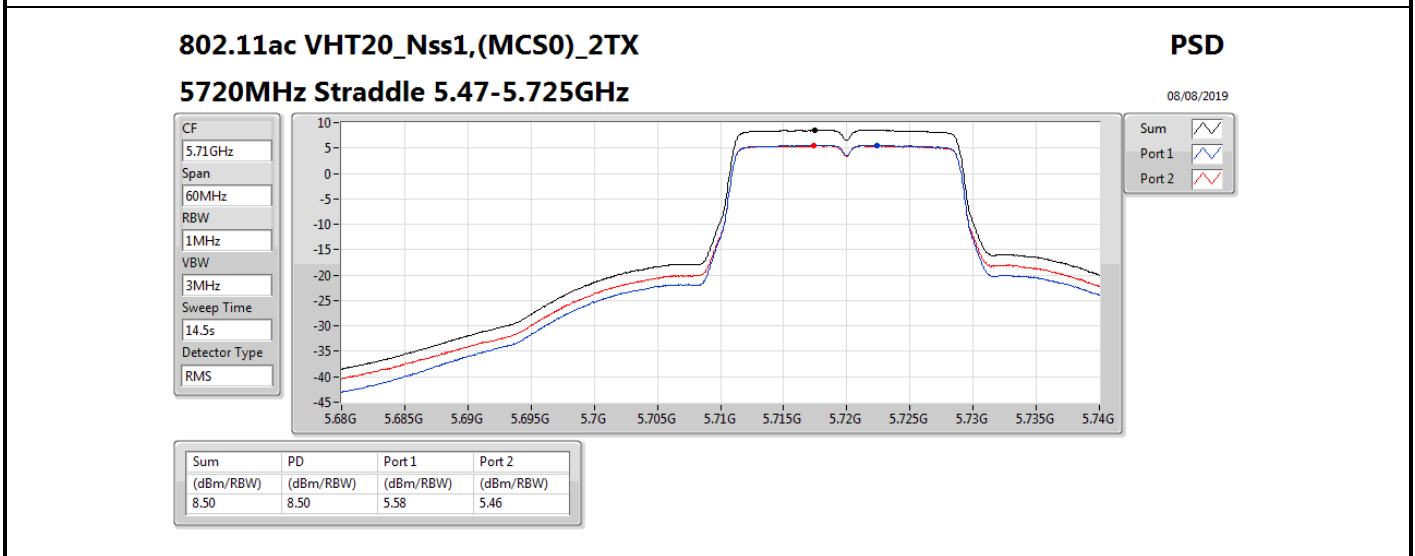
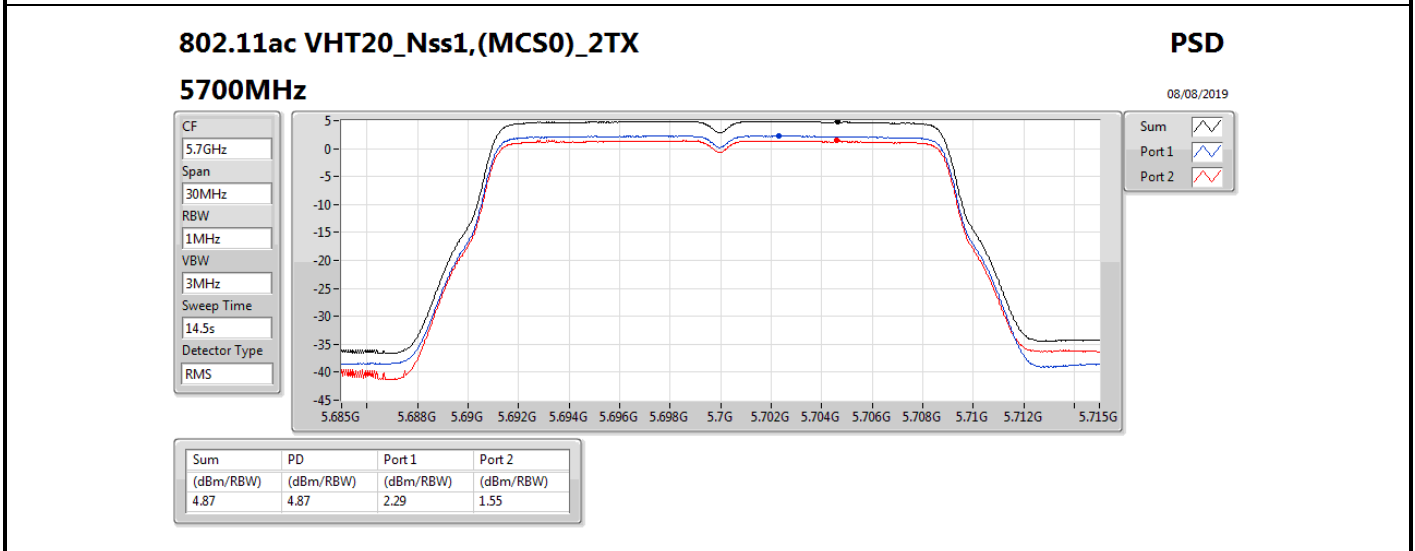
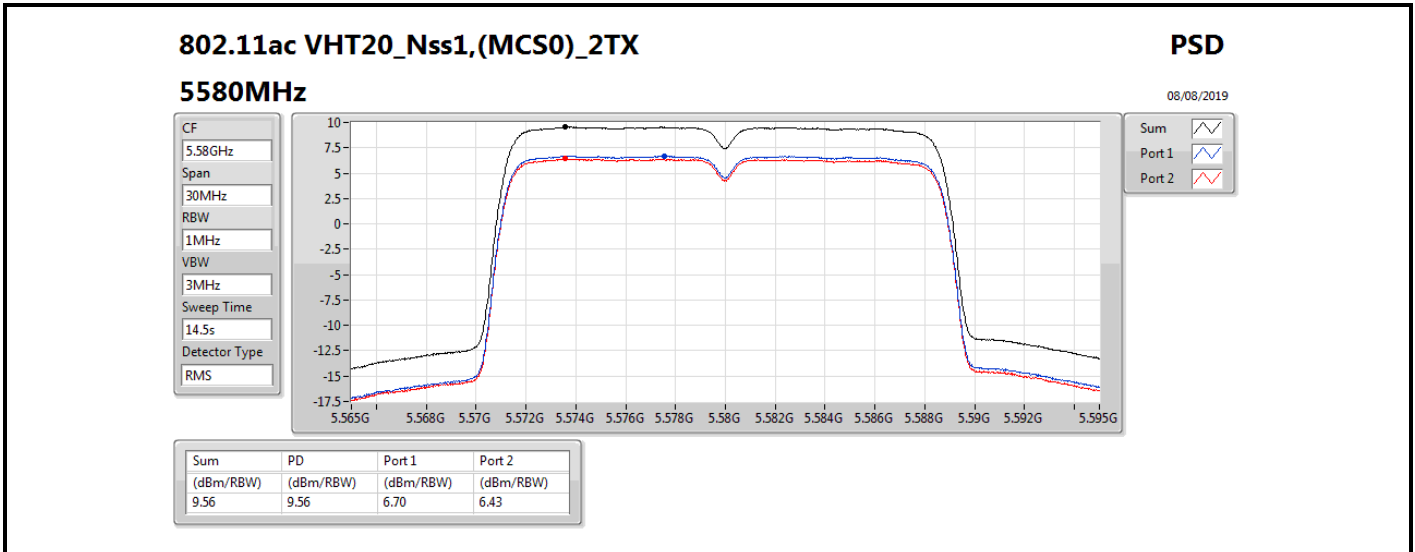


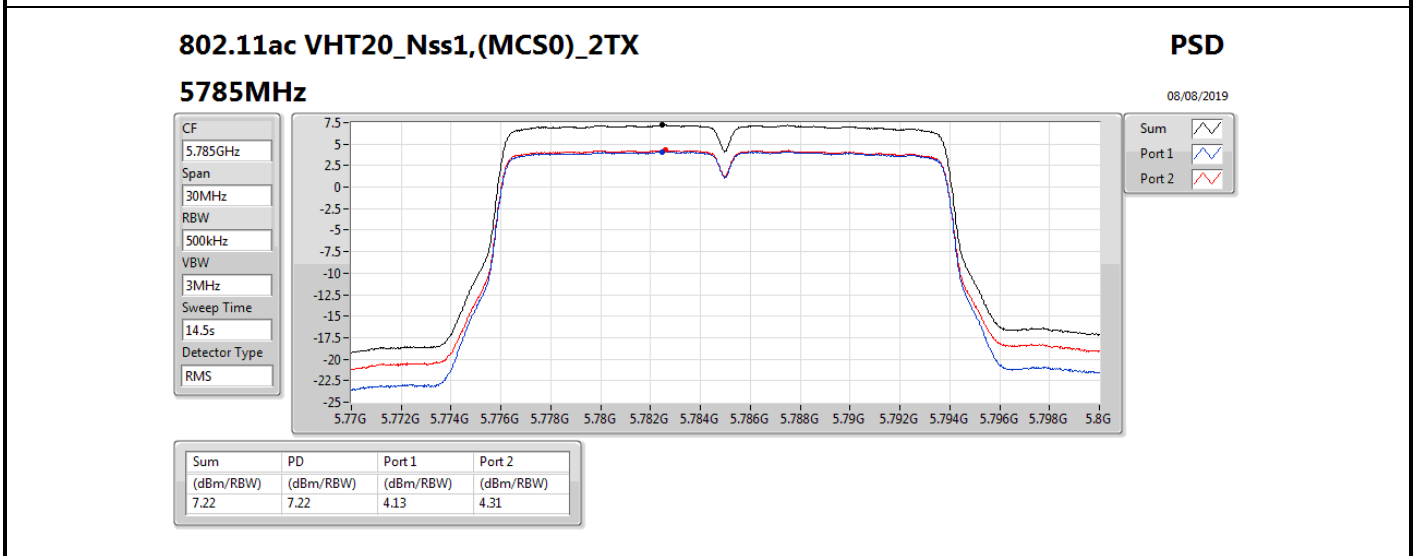
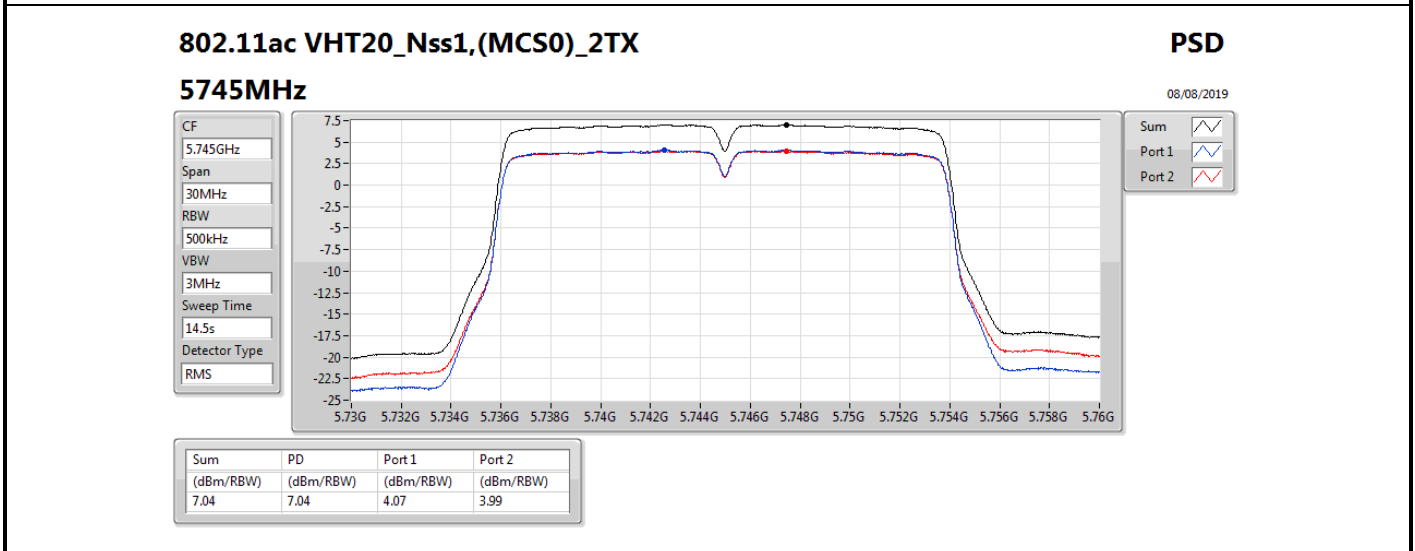
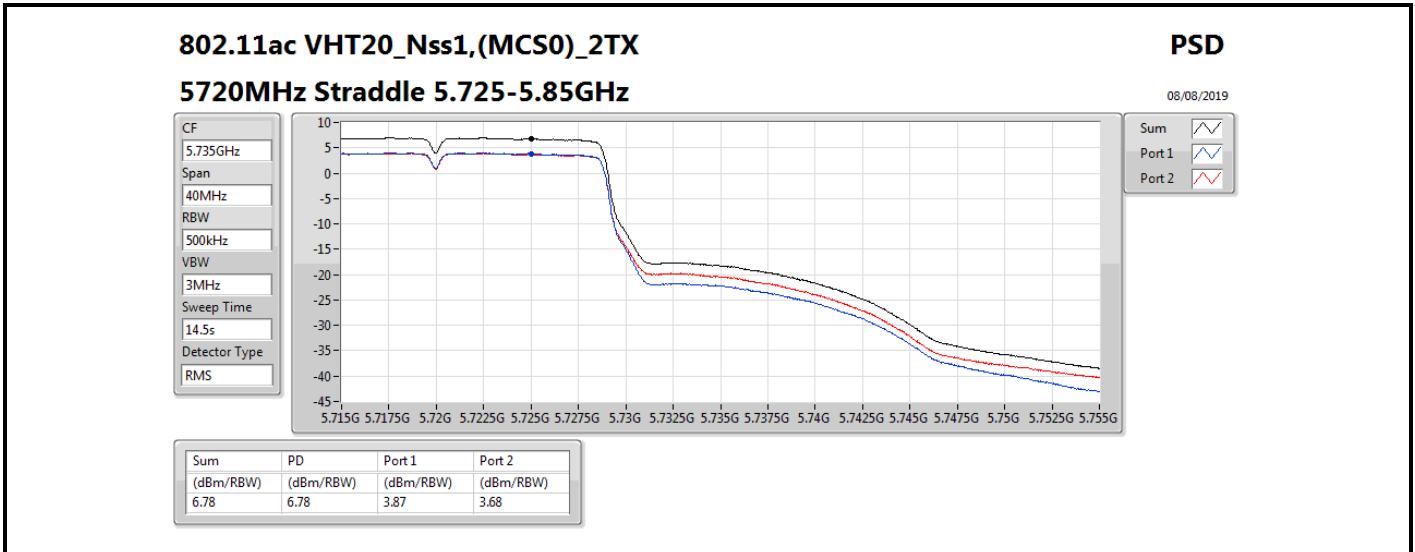


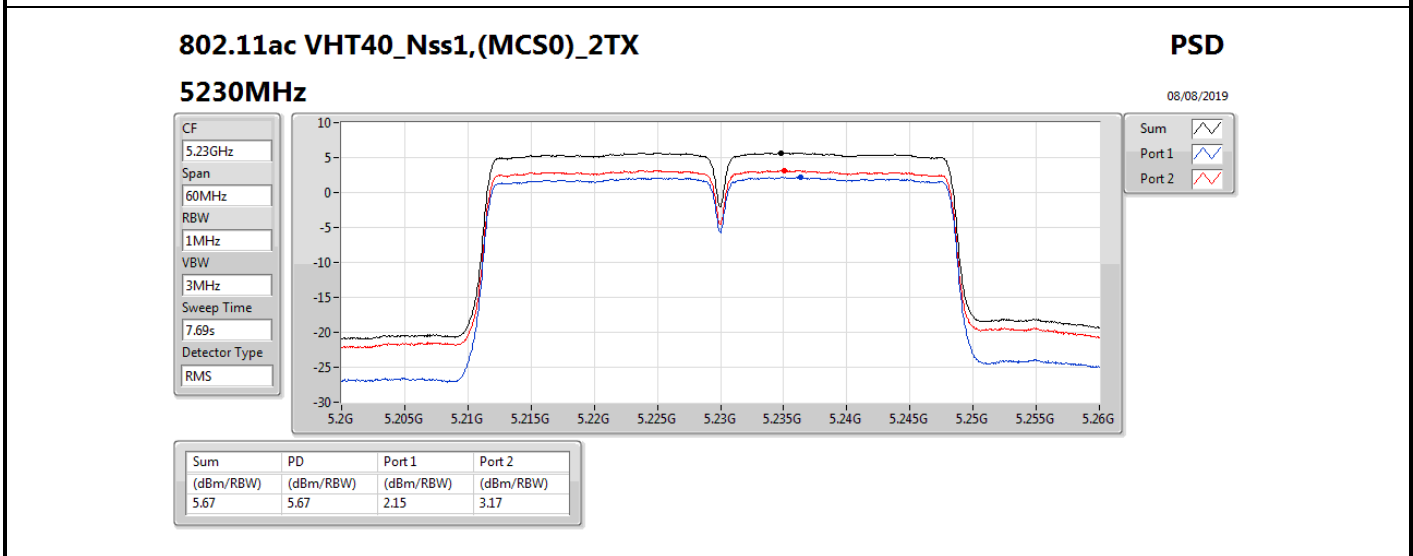
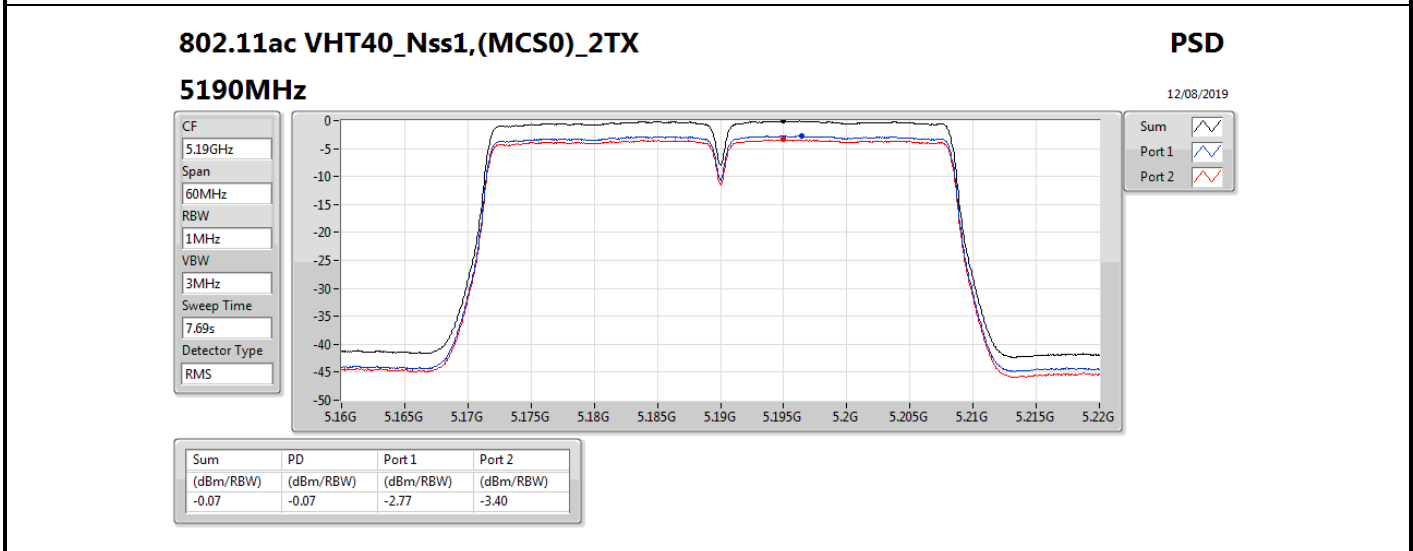
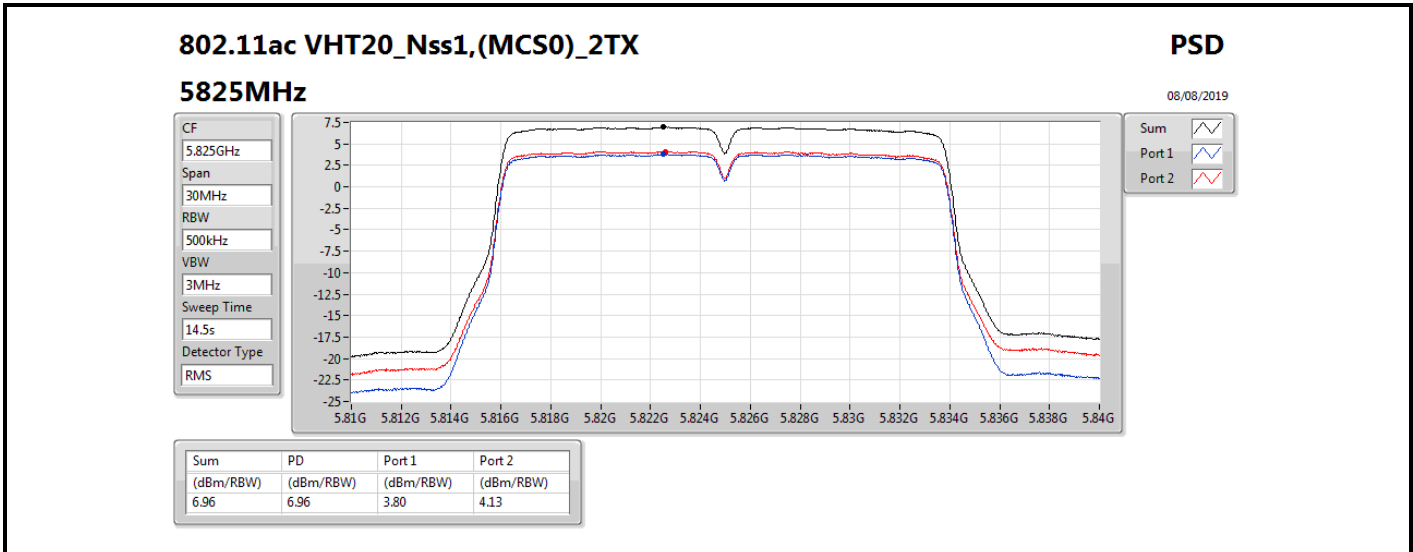












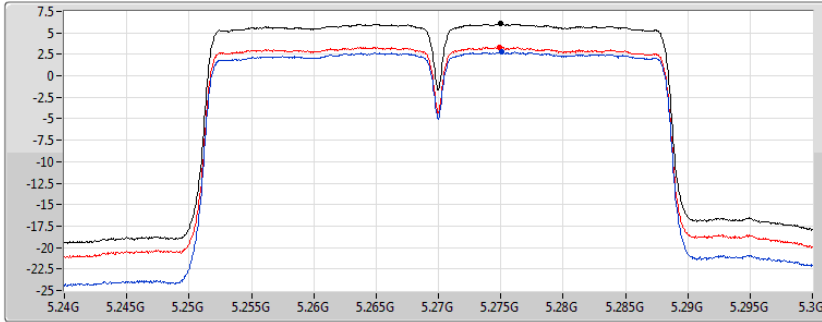
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5270MHz

08/08/2019

CF
5.27GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
7.69s
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.05	6.05	2.76	3.35

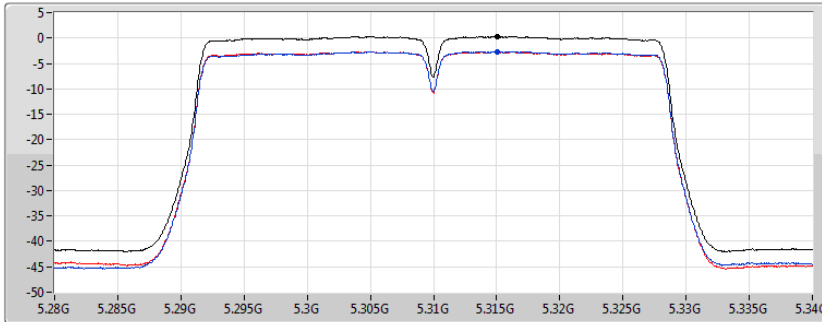
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5310MHz

08/08/2019

CF
5.31GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
7.69s
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.35	0.35	-2.66	-2.67

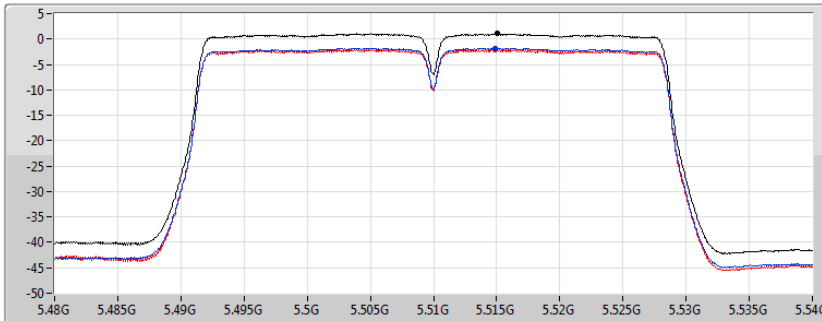
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5510MHz

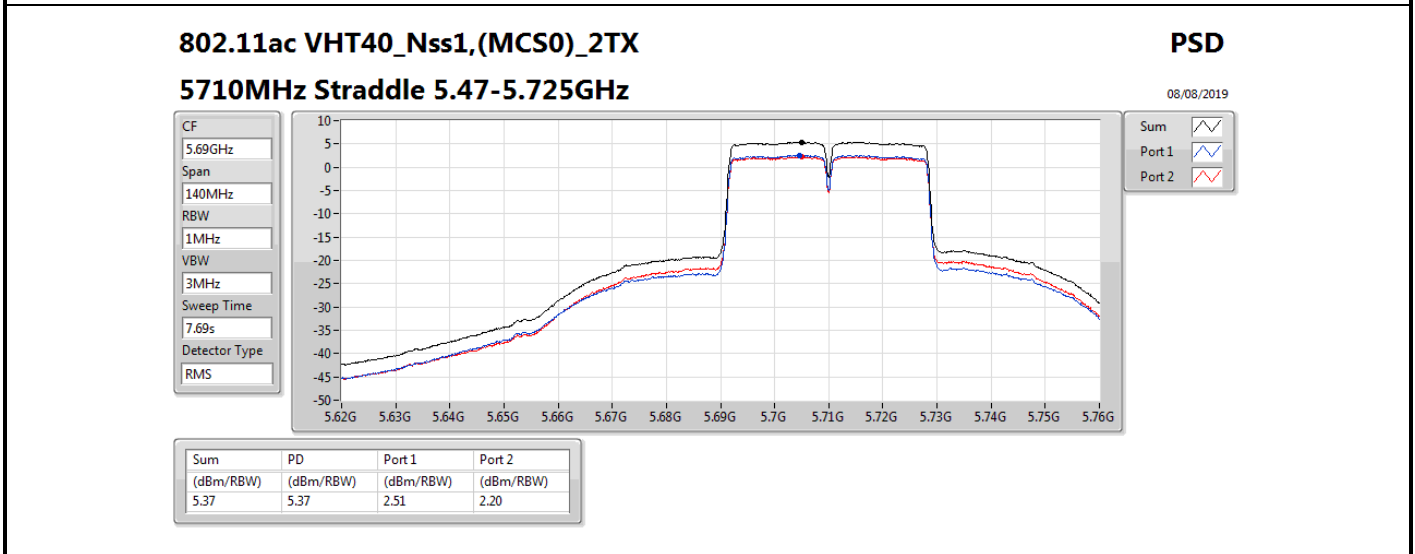
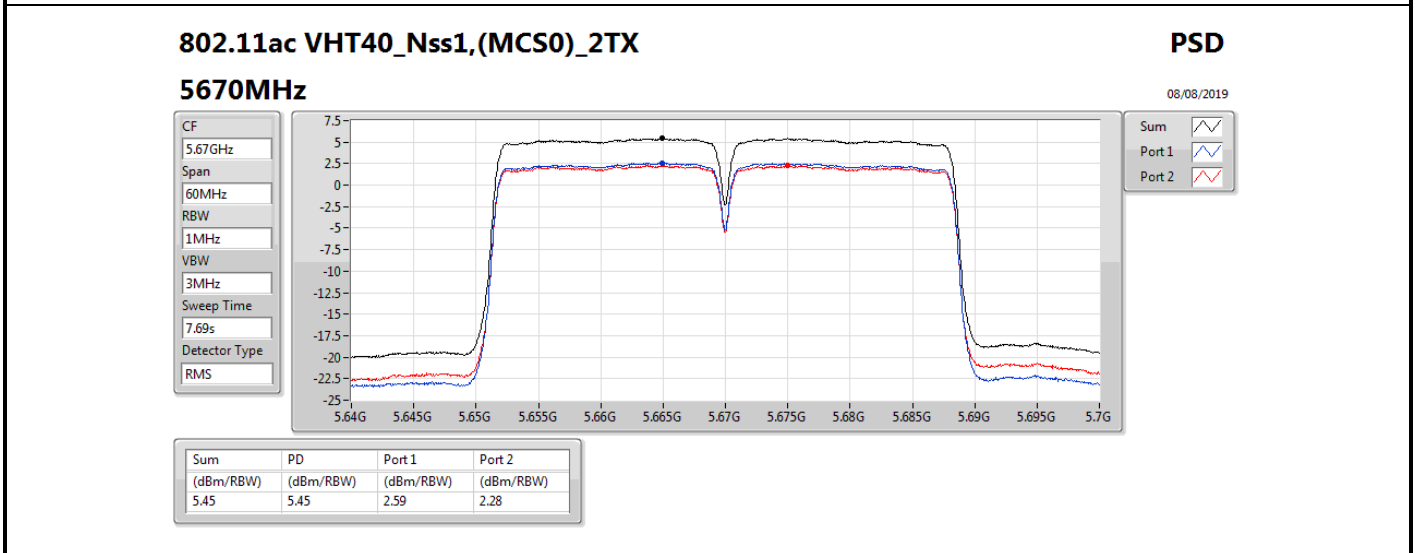
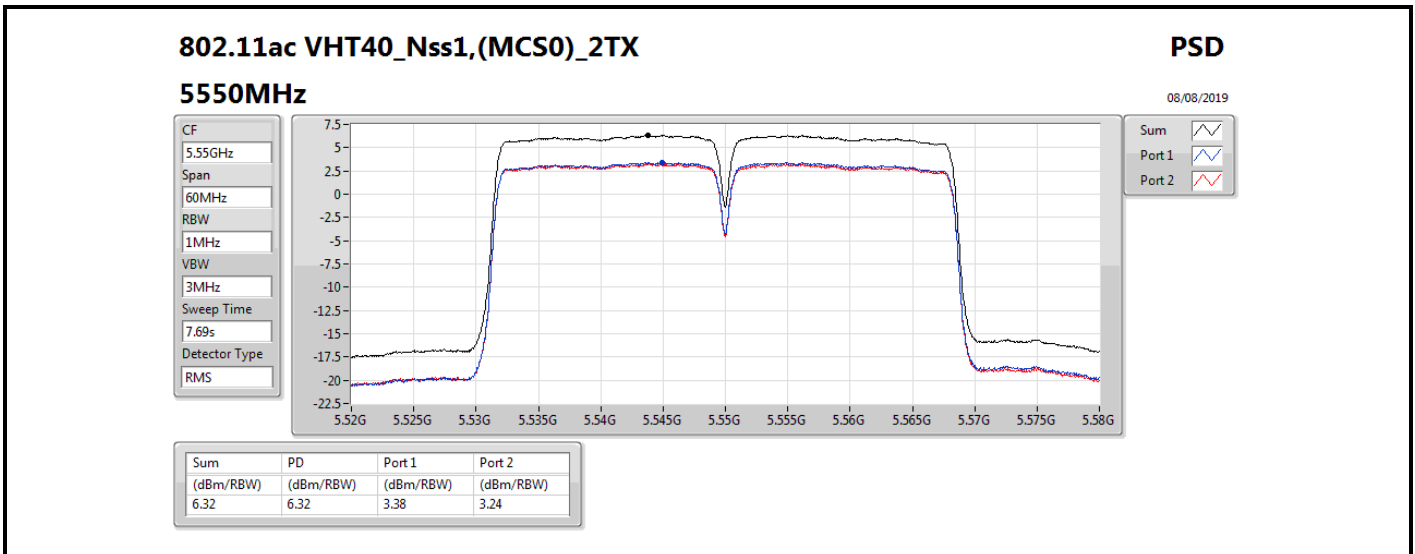
08/08/2019

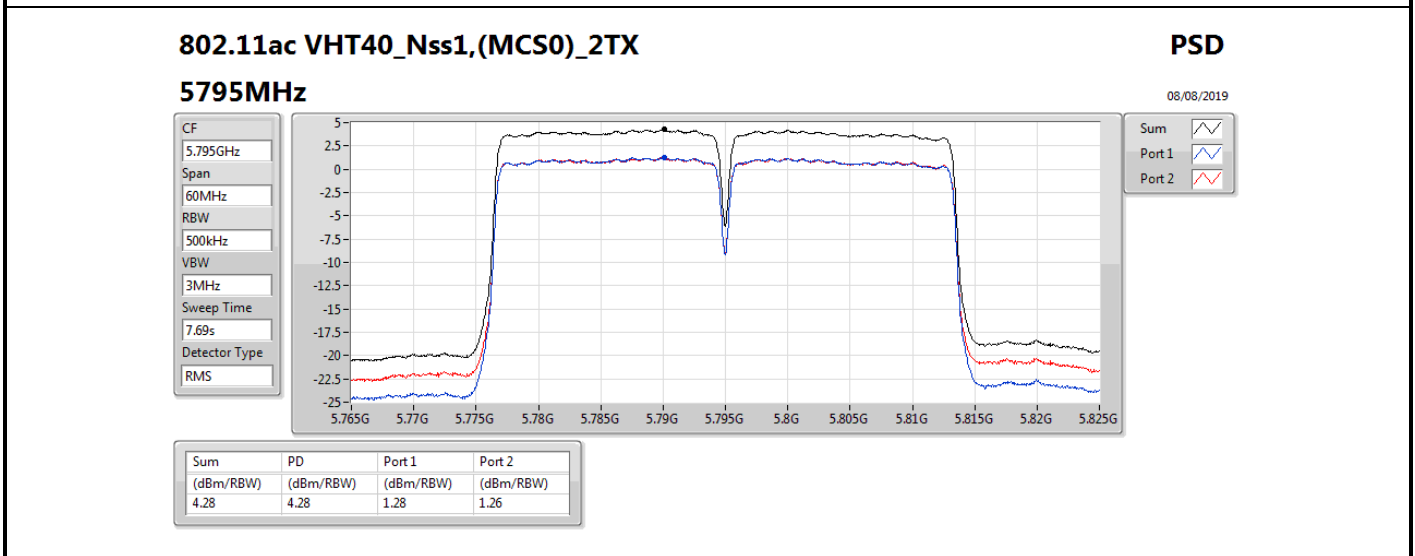
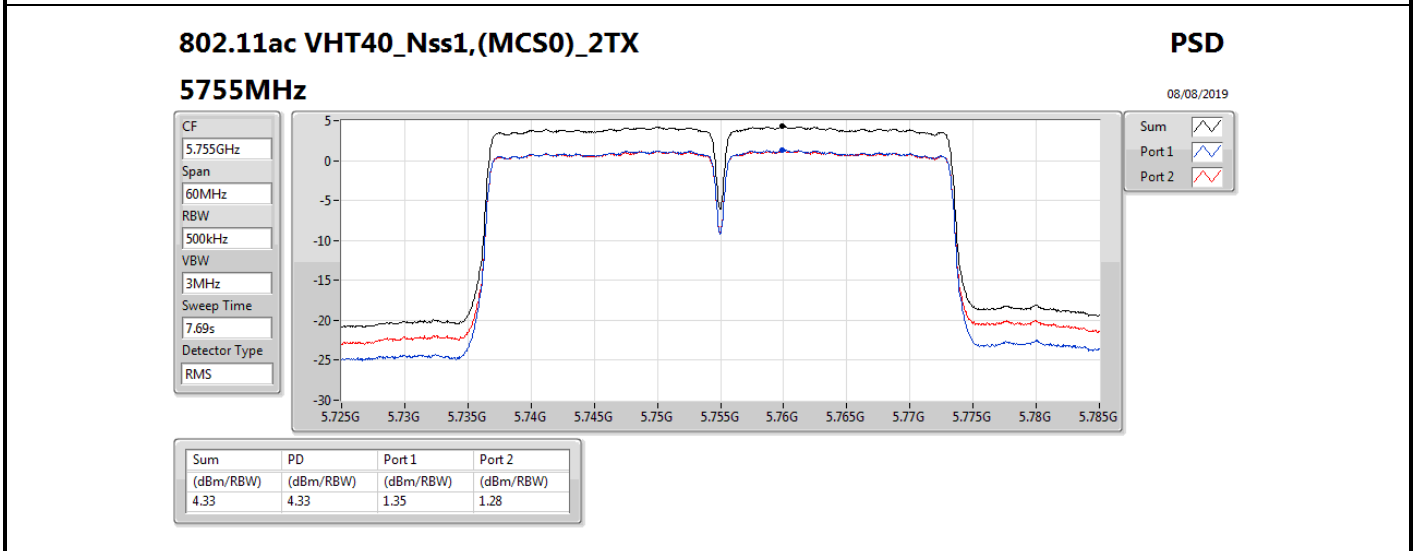
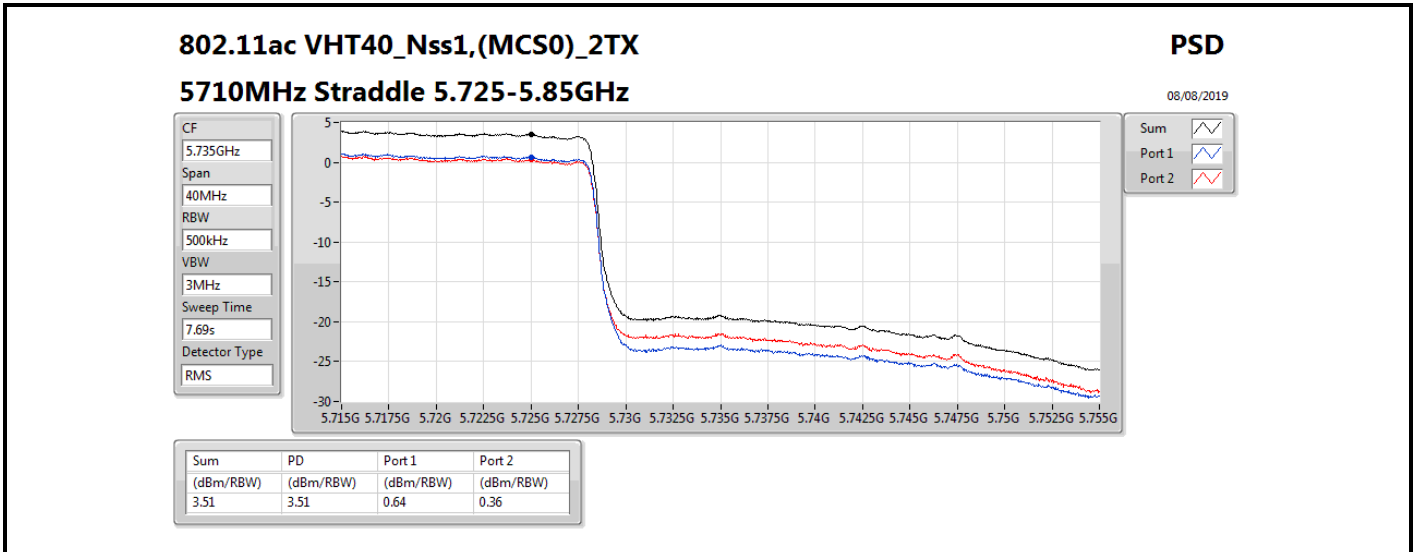
CF
5.51GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
7.69s
Detector Type
RMS

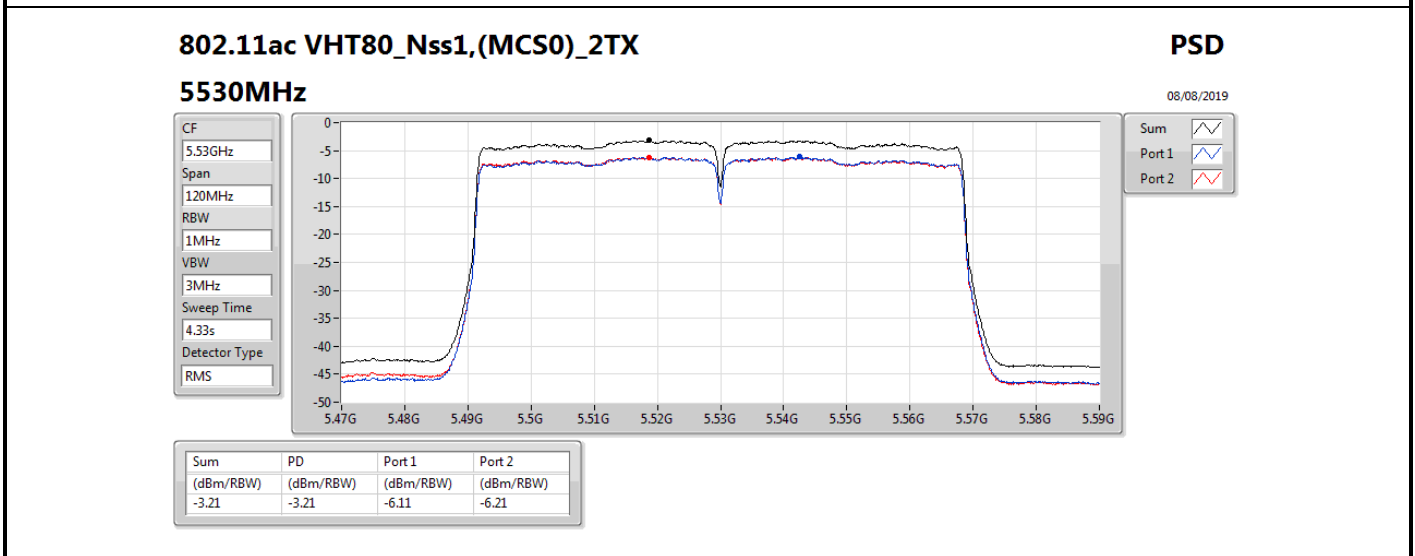
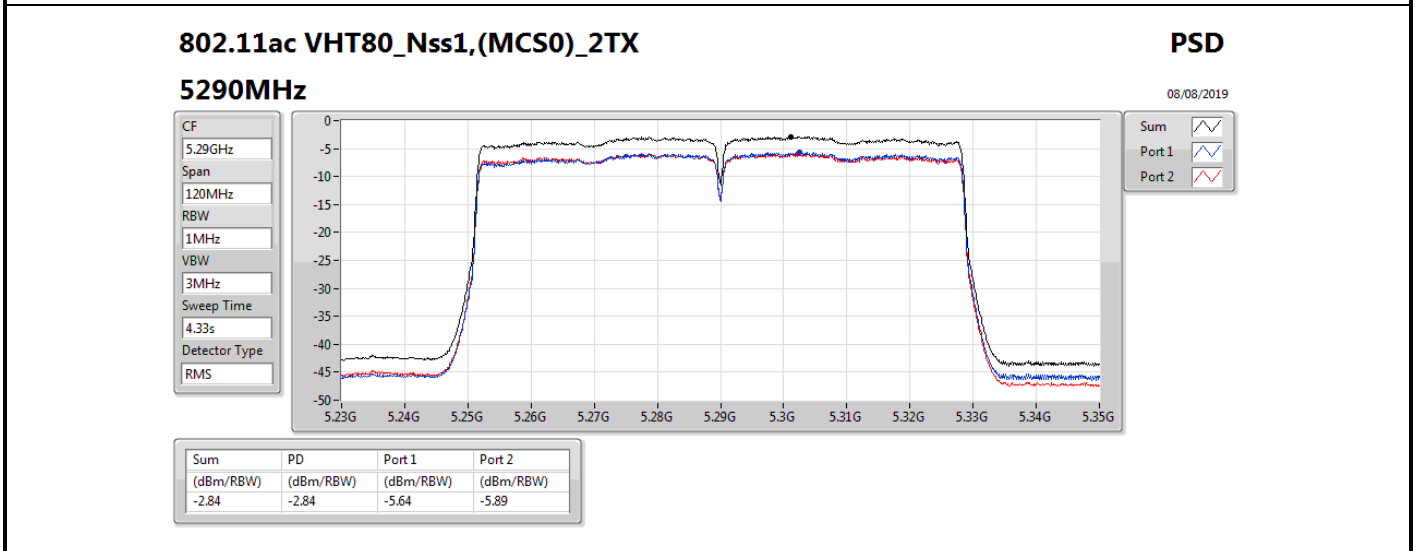
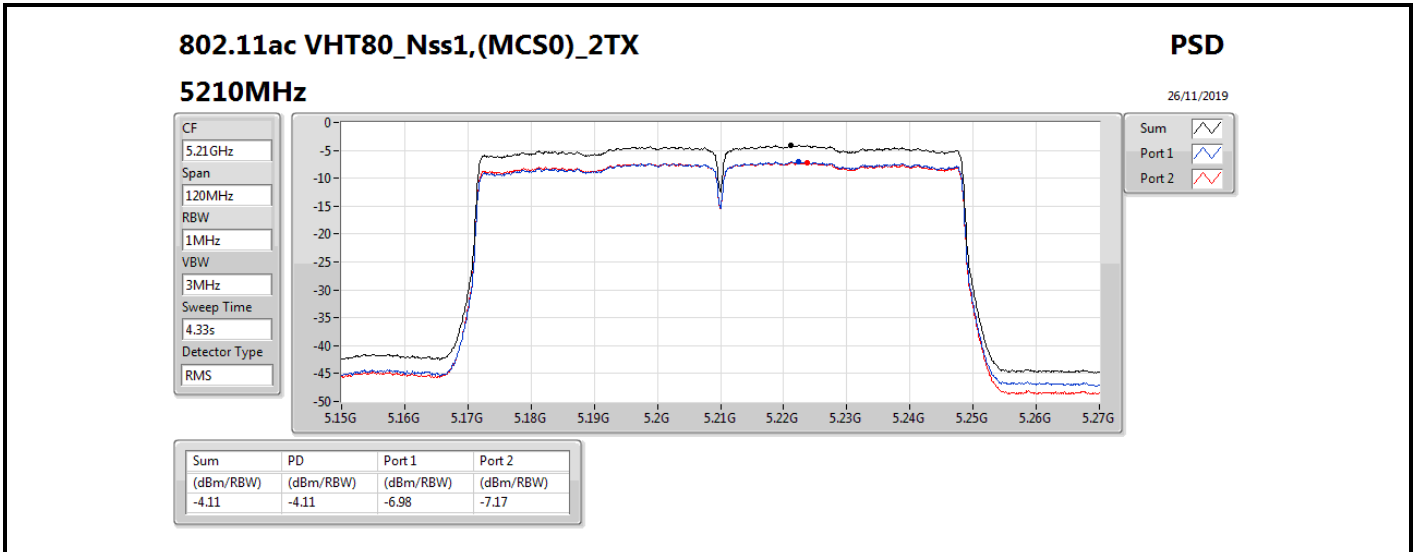


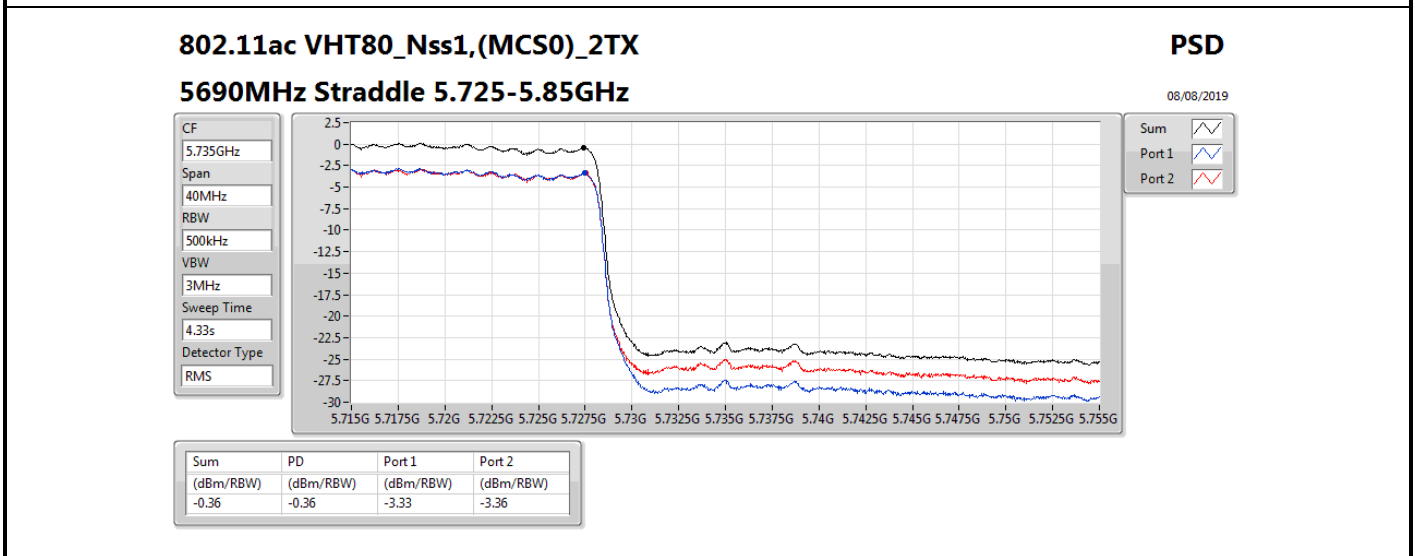
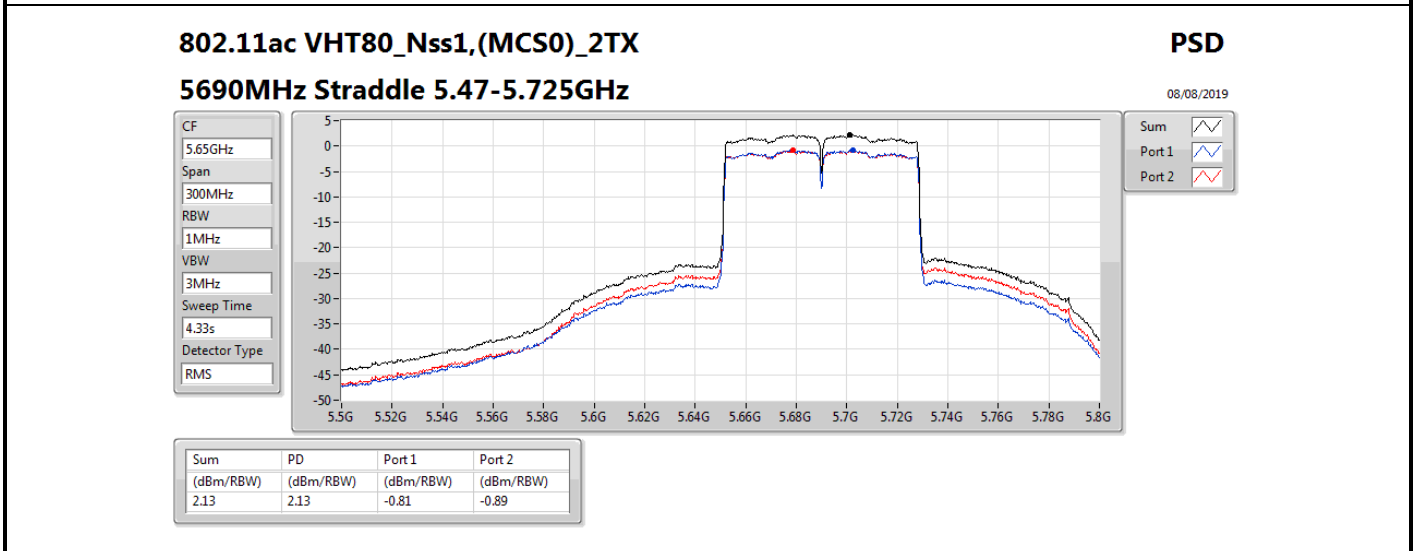
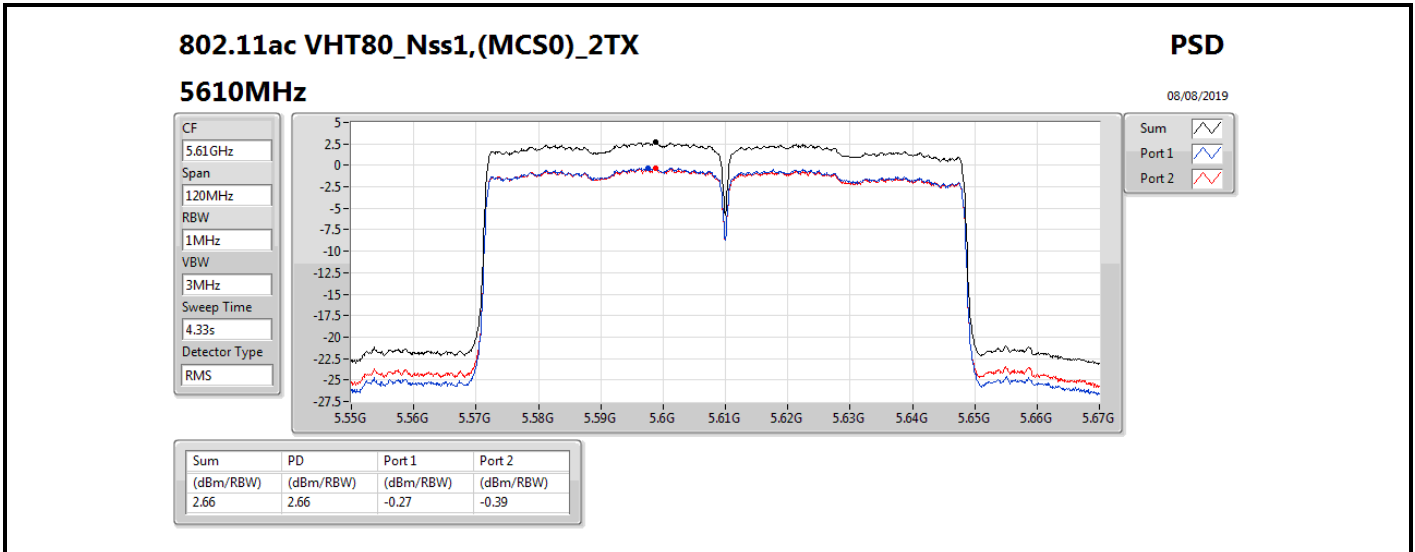
Sum
Port 1
Port 2

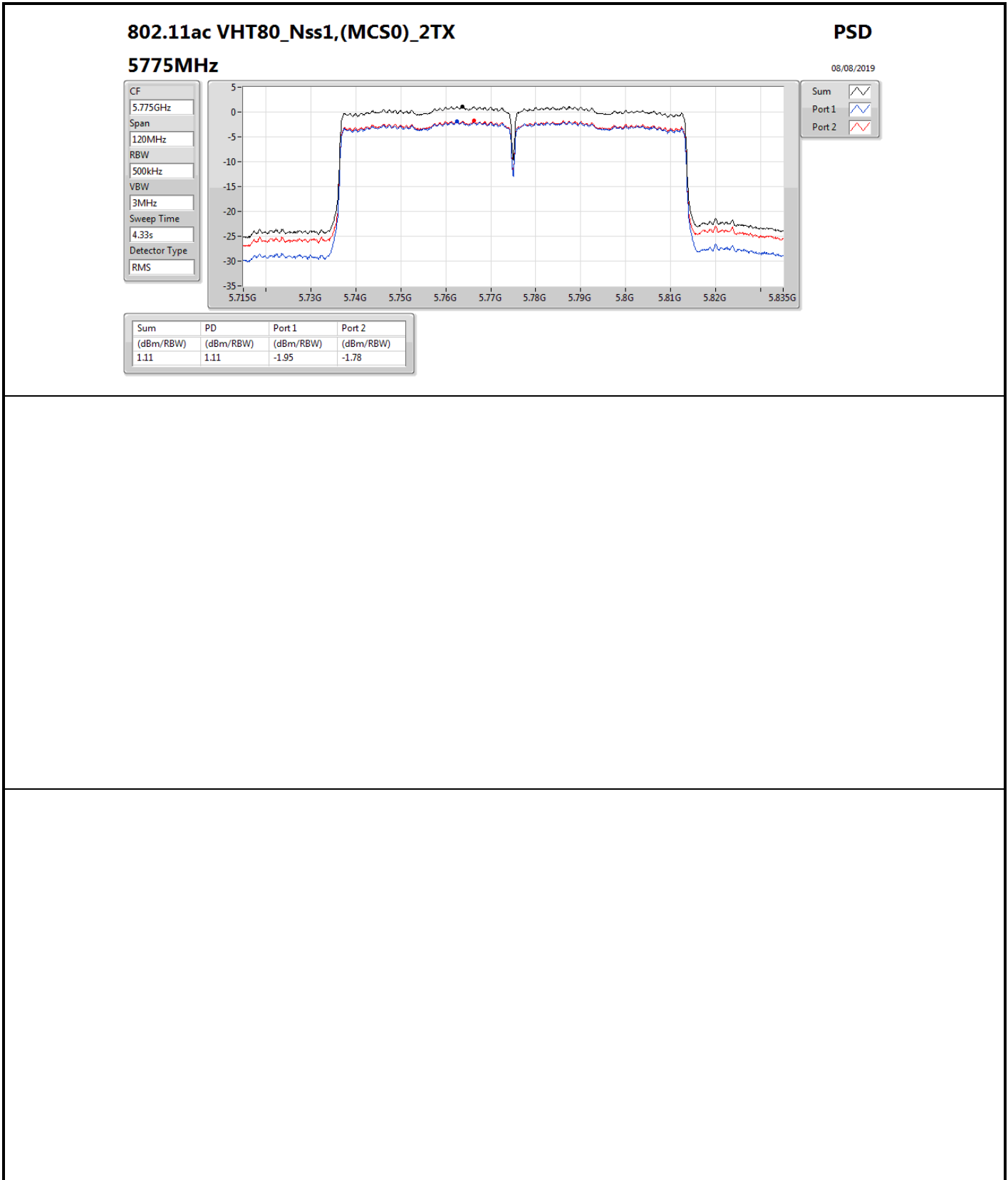
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.07	1.07	-1.82	-2.01













Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	PK	798.24M	36.29	46.00	-9.71	3	Vertical	0	2.00	-



Result

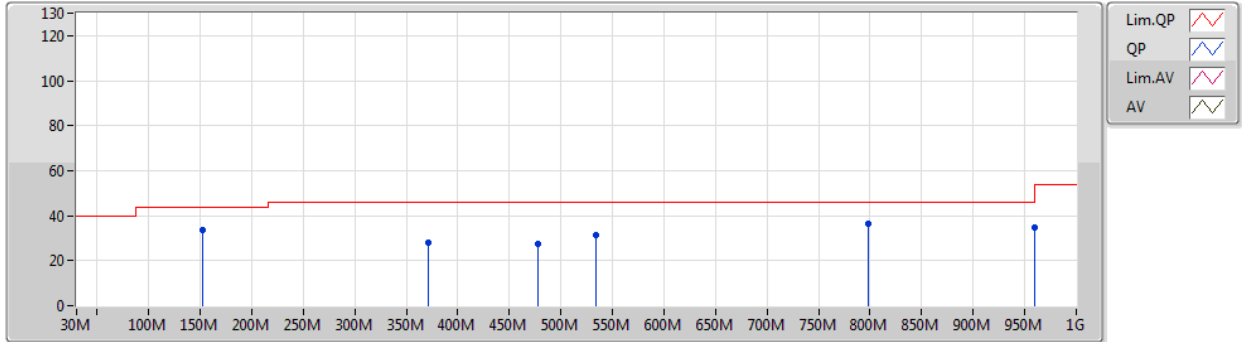
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	152.22M	33.64	43.50	-9.86	3	Vertical	0	2.00	-
5775MHz	Pass	PK	371.44M	28.23	46.00	-17.77	3	Vertical	0	2.00	-
5775MHz	Pass	PK	478.14M	27.57	46.00	-18.43	3	Vertical	0	2.00	-
5775MHz	Pass	PK	534.4M	31.14	46.00	-14.86	3	Vertical	0	2.00	-
5775MHz	Pass	PK	798.24M	36.29	46.00	-9.71	3	Vertical	0	2.00	-
5775MHz	Pass	PK	959.26M	34.91	46.00	-11.09	3	Vertical	0	2.00	-
5775MHz	Pass	PK	187.14M	33.02	43.50	-10.48	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	309.36M	34.02	46.00	-11.98	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	532.46M	29.76	46.00	-16.24	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	724.52M	33.03	46.00	-12.97	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	798.24M	35.58	46.00	-10.42	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	959.26M	34.10	46.00	-11.90	3	Horizontal	360	1.00	-



802.11ac VHT80_Nss1,(MCS0)_2TX

08/08/2019

5775MHz_AC



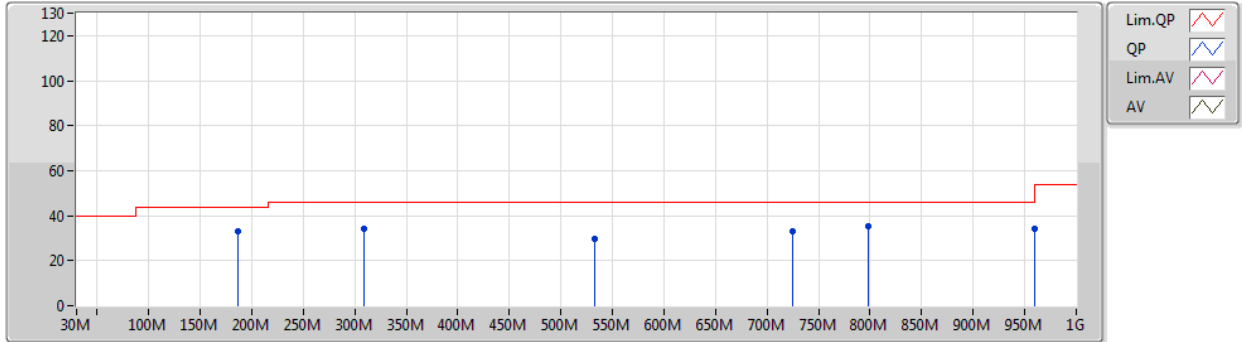
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	152.22M	33.64	43.50	-9.86	-19.80	3	Vertical	0	2.00	-	53.44	15.98	1.00	36.78
PK	371.44M	28.23	46.00	-17.77	-15.17	3	Vertical	0	2.00	-	43.40	19.83	1.62	36.62
PK	478.14M	27.57	46.00	-18.43	-12.54	3	Vertical	0	2.00	-	40.11	22.56	1.86	36.96
PK	534.4M	31.14	46.00	-14.86	-12.35	3	Vertical	0	2.00	-	43.49	22.91	1.97	37.23
PK	798.24M	36.29	46.00	-9.71	-8.28	3	Vertical	0	2.00	-	44.57	27.04	2.46	37.78
PK	959.26M	34.91	46.00	-11.09	-4.52	3	Vertical	0	2.00	-	39.43	30.29	2.61	37.42



802.11ac VHT80_Nss1,(MCS0)_2TX

08/08/2019

5775MHz_AC



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)
PK	187.14M	33.02	43.50	-10.48	-21.68	3	Horizontal	360	1.00	-	54.70	13.80	1.14	36.62
PK	309.36M	34.02	46.00	-11.98	-16.78	3	Horizontal	360	1.00	-	50.80	18.30	1.47	36.55
PK	532.46M	29.76	46.00	-16.24	-12.30	3	Horizontal	360	1.00	-	42.06	22.95	1.97	37.22
PK	724.52M	33.03	46.00	-12.97	-8.79	3	Horizontal	360	1.00	-	41.82	26.36	2.31	37.46
PK	798.24M	35.58	46.00	-10.42	-8.28	3	Horizontal	360	1.00	-	43.86	27.04	2.46	37.78
PK	959.26M	34.10	46.00	-11.90	-4.52	3	Horizontal	360	1.00	-	38.62	30.29	2.61	37.42



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	5.1484G	53.26	54.00	-0.74	3	Horizontal	264	2.07	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	5.15G	53.60	54.00	-0.40	3	Horizontal	75	2.21	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	5.1488G	53.86	54.00	-0.14	3	Horizontal	270	2.09	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.149G	53.76	54.00	-0.24	3	Horizontal	80	2.39	-
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	5.3502G	53.21	54.00	-0.79	3	Horizontal	85	2.31	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	5.35G	53.80	54.00	-0.20	3	Horizontal	259	2.30	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	5.35G	53.89	54.00	-0.11	3	Horizontal	268	2.09	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.358G	53.69	54.00	-0.31	3	Horizontal	267	2.21	-
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	5.726G	67.94	68.20	-0.26	3	Horizontal	87	2.18	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	PK	5.4688G	68.08	68.20	-0.12	3	Horizontal	85	2.16	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	PK	5.4688G	68.13	68.20	-0.07	3	Horizontal	84	1.95	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.459G	53.72	54.00	-0.28	3	Horizontal	81	2.36	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	11.66272G	45.47	54.00	-8.53	3	Horizontal	269	1.15	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	11.6617G	45.38	54.00	-8.62	3	Horizontal	244	2.70	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	PK	5.641G	61.47	68.20	-6.73	3	Horizontal	266	2.20	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	PK	5.6478G	68.12	68.20	-0.08	3	Horizontal	78	2.26	-



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	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.15G	50.91	54.00	-3.09	3	Vertical	278	2.21	-
5180MHz	Pass	AV	5.1792G	99.41	Inf	-Inf	3	Vertical	278	2.21	-
5180MHz	Pass	PK	5.1496G	64.18	74.00	-9.82	3	Vertical	278	2.21	-
5180MHz	Pass	PK	5.1838G	108.63	Inf	-Inf	3	Vertical	278	2.21	-
5180MHz	Pass	AV	5.1484G	53.26	54.00	-0.74	3	Horizontal	264	2.07	-
5180MHz	Pass	AV	5.1772G	103.86	Inf	-Inf	3	Horizontal	264	2.07	-
5180MHz	Pass	PK	5.148G	67.46	74.00	-6.54	3	Horizontal	264	2.07	-
5180MHz	Pass	PK	5.182G	112.76	Inf	-Inf	3	Horizontal	264	2.07	-
5180MHz	Pass	PK	10.37308G	59.07	68.20	-9.13	3	Vertical	0	1.56	-
5180MHz	Pass	PK	10.37212G	57.44	68.20	-10.76	3	Horizontal	225	1.50	-
5200MHz	Pass	AV	5.15G	45.58	54.00	-8.42	3	Vertical	278	2.43	-
5200MHz	Pass	AV	5.204G	98.86	Inf	-Inf	3	Vertical	278	2.43	-
5200MHz	Pass	PK	5.1496G	57.93	74.00	-16.07	3	Vertical	278	2.43	-
5200MHz	Pass	PK	5.1988G	108.12	Inf	-Inf	3	Vertical	278	2.43	-
5200MHz	Pass	AV	5.1488G	46.84	54.00	-7.16	3	Horizontal	268	2.45	-
5200MHz	Pass	AV	5.202G	103.19	Inf	-Inf	3	Horizontal	268	2.45	-
5200MHz	Pass	PK	5.1472G	58.93	74.00	-15.07	3	Horizontal	268	2.45	-
5200MHz	Pass	PK	5.2028G	111.71	Inf	-Inf	3	Horizontal	268	2.45	-
5200MHz	Pass	PK	10.41332G	57.91	68.20	-10.29	3	Vertical	269	1.86	-
5200MHz	Pass	PK	10.39448G	58.55	68.20	-9.65	3	Horizontal	347	1.14	-
5240MHz	Pass	AV	5.0996G	44.88	54.00	-9.12	3	Vertical	278	2.41	-
5240MHz	Pass	AV	5.2334G	99.40	Inf	-Inf	3	Vertical	278	2.41	-
5240MHz	Pass	AV	5.384G	43.05	54.00	-10.95	3	Vertical	278	2.41	-
5240MHz	Pass	PK	5.099G	57.04	74.00	-16.96	3	Vertical	278	2.41	-
5240MHz	Pass	PK	5.2388G	107.87	Inf	-Inf	3	Vertical	278	2.41	-
5240MHz	Pass	PK	5.3876G	55.56	74.00	-18.44	3	Vertical	278	2.41	-
5240MHz	Pass	AV	5.0924G	45.25	54.00	-8.75	3	Horizontal	270	2.40	-
5240MHz	Pass	AV	5.2424G	103.51	Inf	-Inf	3	Horizontal	270	2.40	-
5240MHz	Pass	AV	5.387G	43.71	54.00	-10.29	3	Horizontal	270	2.40	-
5240MHz	Pass	PK	5.1464G	57.03	74.00	-16.97	3	Horizontal	270	2.40	-
5240MHz	Pass	PK	5.2424G	112.65	Inf	-Inf	3	Horizontal	270	2.40	-
5240MHz	Pass	PK	5.3582G	55.82	74.00	-18.18	3	Horizontal	270	2.40	-
5240MHz	Pass	PK	10.49218G	59.41	68.20	-8.79	3	Vertical	268	1.26	-
5240MHz	Pass	PK	10.47124G	57.82	68.20	-10.38	3	Horizontal	345	2.12	-
5260MHz	Pass	AV	5.1214G	45.06	54.00	-8.94	3	Vertical	100	2.26	-
5260MHz	Pass	AV	5.254G	100.74	Inf	-Inf	3	Vertical	100	2.26	-
5260MHz	Pass	AV	5.4034G	43.34	54.00	-10.66	3	Vertical	100	2.26	-
5260MHz	Pass	PK	5.137G	56.52	74.00	-17.48	3	Vertical	100	2.26	-
5260MHz	Pass	PK	5.2588G	109.61	Inf	-Inf	3	Vertical	100	2.26	-
5260MHz	Pass	PK	5.3536G	55.18	74.00	-18.82	3	Vertical	100	2.26	-
5260MHz	Pass	AV	5.1304G	45.27	54.00	-8.73	3	Horizontal	81	1.99	-
5260MHz	Pass	AV	5.257G	104.79	Inf	-Inf	3	Horizontal	81	1.99	-
5260MHz	Pass	AV	5.3638G	44.07	54.00	-9.93	3	Horizontal	81	1.99	-
5260MHz	Pass	PK	5.11G	57.22	74.00	-16.78	3	Horizontal	81	1.99	-
5260MHz	Pass	PK	5.2618G	113.82	Inf	-Inf	3	Horizontal	81	1.99	-
5260MHz	Pass	PK	5.3944G	55.92	74.00	-18.08	3	Horizontal	81	1.99	-
5260MHz	Pass	PK	10.52504G	59.47	68.20	-8.73	3	Vertical	312	1.92	-

Remark :

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



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5260MHz	Pass	PK	10.52038G	57.91	68.20	-10.29	3	Horizontal	329	1.29	-
5300MHz	Pass	AV	5.294G	99.08	Inf	-Inf	3	Vertical	101	2.21	-
5300MHz	Pass	AV	5.35G	44.20	54.00	-9.80	3	Vertical	101	2.21	-
5300MHz	Pass	PK	5.2988G	108.22	Inf	-Inf	3	Vertical	101	2.21	-
5300MHz	Pass	PK	5.3544G	57.23	74.00	-16.77	3	Vertical	101	2.21	-
5300MHz	Pass	AV	5.2972G	104.09	Inf	-Inf	3	Horizontal	84	1.96	-
5300MHz	Pass	AV	5.3516G	46.36	54.00	-7.64	3	Horizontal	84	1.96	-
5300MHz	Pass	PK	5.3016G	113.08	Inf	-Inf	3	Horizontal	84	1.96	-
5300MHz	Pass	PK	5.3524G	60.93	74.00	-13.07	3	Horizontal	84	1.96	-
5300MHz	Pass	PK	10.59836G	58.37	68.20	-9.83	3	Vertical	82	1.27	-
5300MHz	Pass	PK	10.59578G	57.89	68.20	-10.31	3	Horizontal	252	2.36	-
5320MHz	Pass	AV	5.314G	98.80	Inf	-Inf	3	Vertical	101	2.35	-
5320MHz	Pass	AV	5.35G	49.01	54.00	-4.99	3	Vertical	101	2.35	-
5320MHz	Pass	PK	5.3188G	107.73	Inf	-Inf	3	Vertical	101	2.35	-
5320MHz	Pass	PK	5.35G	61.24	74.00	-12.76	3	Vertical	101	2.35	-
5320MHz	Pass	AV	5.3172G	104.05	Inf	-Inf	3	Horizontal	85	2.31	-
5320MHz	Pass	AV	5.3502G	53.21	54.00	-0.79	3	Horizontal	85	2.31	-
5320MHz	Pass	PK	5.322G	113.34	Inf	-Inf	3	Horizontal	85	2.31	-
5320MHz	Pass	PK	5.3516G	70.23	74.00	-3.77	3	Horizontal	85	2.31	-
5320MHz	Pass	AV	10.62084G	45.02	54.00	-8.98	3	Vertical	233	1.04	-
5320MHz	Pass	PK	10.62084G	57.54	74.00	-16.46	3	Vertical	233	1.04	-
5320MHz	Pass	AV	10.64632G	45.02	54.00	-8.98	3	Horizontal	329	2.06	-
5320MHz	Pass	PK	10.64528G	57.44	74.00	-16.56	3	Horizontal	329	2.06	-
5500MHz	Pass	AV	5.4578G	45.26	54.00	-8.74	3	Vertical	90	3.00	-
5500MHz	Pass	AV	5.494G	97.77	Inf	-Inf	3	Vertical	90	3.00	-
5500MHz	Pass	PK	5.4698G	63.02	68.20	-5.18	3	Vertical	90	3.00	-
5500MHz	Pass	PK	5.4988G	106.61	Inf	-Inf	3	Vertical	90	3.00	-
5500MHz	Pass	AV	5.458G	48.37	54.00	-5.63	3	Horizontal	85	1.82	-
5500MHz	Pass	AV	5.4972G	103.64	Inf	-Inf	3	Horizontal	85	1.82	-
5500MHz	Pass	PK	5.4676G	67.93	68.20	-0.27	3	Horizontal	85	1.82	-
5500MHz	Pass	PK	5.502G	113.46	Inf	-Inf	3	Horizontal	85	1.82	-
5500MHz	Pass	AV	11.00012G	45.70	54.00	-8.30	3	Vertical	126	2.13	-
5500MHz	Pass	PK	11.00482G	58.46	74.00	-15.54	3	Vertical	126	2.13	-
5500MHz	Pass	AV	10.99646G	45.84	54.00	-8.16	3	Horizontal	86	1.32	-
5500MHz	Pass	PK	11.00876G	58.40	74.00	-15.60	3	Horizontal	86	1.32	-
5580MHz	Pass	AV	5.442G	42.94	54.00	-11.06	3	Vertical	64	2.77	-
5580MHz	Pass	AV	5.5776G	98.35	Inf	-Inf	3	Vertical	64	2.77	-
5580MHz	Pass	PK	5.469G	55.28	68.20	-12.92	3	Vertical	64	2.77	-
5580MHz	Pass	PK	5.5782G	107.48	Inf	-Inf	3	Vertical	64	2.77	-
5580MHz	Pass	PK	5.7276G	55.68	68.20	-12.52	3	Vertical	64	2.77	-
5580MHz	Pass	AV	5.4546G	43.62	54.00	-10.38	3	Horizontal	86	2.02	-
5580MHz	Pass	AV	5.5824G	105.11	Inf	-Inf	3	Horizontal	86	2.02	-
5580MHz	Pass	PK	5.463G	55.36	68.20	-12.84	3	Horizontal	86	2.02	-
5580MHz	Pass	PK	5.5818G	114.45	Inf	-Inf	3	Horizontal	86	2.02	-
5580MHz	Pass	PK	5.7288G	55.85	68.20	-12.35	3	Horizontal	86	2.02	-
5580MHz	Pass	AV	11.16584G	45.65	54.00	-8.35	3	Vertical	157	1.89	-
5580MHz	Pass	PK	11.16558G	58.26	74.00	-15.74	3	Vertical	157	1.89	-
5580MHz	Pass	AV	11.16088G	45.58	54.00	-8.42	3	Horizontal	187	2.45	-
5580MHz	Pass	PK	11.16584G	58.21	74.00	-15.79	3	Horizontal	187	2.45	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5700MHz	Pass	AV	5.6972G	98.38	Inf	-Inf	3	Vertical	9	2.99	-
5700MHz	Pass	PK	5.702G	107.55	Inf	-Inf	3	Vertical	9	2.99	-
5700MHz	Pass	PK	5.7256G	63.33	68.20	-4.87	3	Vertical	9	2.99	-
5700MHz	Pass	AV	5.6972G	103.54	Inf	-Inf	3	Horizontal	87	2.18	-
5700MHz	Pass	PK	5.702G	113.14	Inf	-Inf	3	Horizontal	87	2.18	-
5700MHz	Pass	PK	5.726G	67.94	68.20	-0.26	3	Horizontal	87	2.18	-
5700MHz	Pass	AV	11.40148G	44.81	54.00	-9.19	3	Vertical	294	2.04	-
5700MHz	Pass	PK	11.40036G	57.23	74.00	-16.77	3	Vertical	294	2.04	-
5700MHz	Pass	AV	11.4071G	44.58	54.00	-9.42	3	Horizontal	145	1.67	-
5700MHz	Pass	PK	11.4096G	57.52	74.00	-16.48	3	Horizontal	145	1.67	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4584G	42.73	54.00	-11.27	3	Vertical	220	2.94	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7188G	101.20	Inf	-Inf	3	Vertical	220	2.94	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4692G	55.12	68.20	-13.08	3	Vertical	220	2.94	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7176G	110.67	Inf	-Inf	3	Vertical	220	2.94	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.99G	56.98	68.20	-11.22	3	Vertical	220	2.94	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.456G	43.40	54.00	-10.60	3	Horizontal	80	1.88	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7212G	105.22	Inf	-Inf	3	Horizontal	80	1.88	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4692G	55.62	68.20	-12.58	3	Horizontal	80	1.88	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7128G	114.76	Inf	-Inf	3	Horizontal	80	1.88	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.9048G	57.34	68.20	-10.86	3	Horizontal	80	1.88	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.42698G	44.71	54.00	-9.29	3	Vertical	215	2.23	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.4445G	57.39	74.00	-16.61	3	Vertical	215	2.23	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43352G	44.74	54.00	-9.26	3	Horizontal	189	1.50	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.45398G	57.75	74.00	-16.25	3	Horizontal	189	1.50	-
5745MHz	Pass	AV	5.7426G	101.57	Inf	-Inf	3	Vertical	197	3.00	-
5745MHz	Pass	PK	5.5326G	57.35	68.20	-10.85	3	Vertical	197	3.00	-
5745MHz	Pass	PK	5.7426G	110.24	Inf	-Inf	3	Vertical	197	3.00	-
5745MHz	Pass	PK	5.961G	56.58	68.20	-11.62	3	Vertical	197	3.00	-
5745MHz	Pass	AV	5.7426G	105.47	Inf	-Inf	3	Horizontal	267	2.23	-
5745MHz	Pass	PK	5.583G	56.95	68.20	-11.25	3	Horizontal	267	2.23	-
5745MHz	Pass	PK	5.7414G	114.06	Inf	-Inf	3	Horizontal	267	2.23	-
5745MHz	Pass	PK	5.961G	57.27	68.20	-10.93	3	Horizontal	267	2.23	-
5745MHz	Pass	AV	11.5002G	45.12	54.00	-8.88	3	Vertical	57	1.36	-
5745MHz	Pass	PK	11.49678G	57.50	74.00	-16.50	3	Vertical	57	1.36	-
5745MHz	Pass	AV	11.47782G	45.07	54.00	-8.93	3	Horizontal	134	2.02	-
5745MHz	Pass	PK	11.49636G	57.83	74.00	-16.17	3	Horizontal	134	2.02	-
5785MHz	Pass	AV	5.7814G	101.05	Inf	-Inf	3	Vertical	199	3.00	-
5785MHz	Pass	PK	5.5942G	56.29	68.20	-11.91	3	Vertical	199	3.00	-
5785MHz	Pass	PK	5.7874G	110.57	Inf	-Inf	3	Vertical	199	3.00	-
5785MHz	Pass	PK	5.9578G	56.93	68.20	-11.27	3	Vertical	199	3.00	-
5785MHz	Pass	AV	5.7826G	104.98	Inf	-Inf	3	Horizontal	267	1.85	-
5785MHz	Pass	PK	5.5402G	56.82	68.20	-11.38	3	Horizontal	267	1.85	-
5785MHz	Pass	PK	5.7874G	114.36	Inf	-Inf	3	Horizontal	267	1.85	-
5785MHz	Pass	PK	5.9338G	57.39	68.20	-10.81	3	Horizontal	267	1.85	-
5785MHz	Pass	AV	11.57876G	45.25	54.00	-8.75	3	Vertical	213	1.29	-
5785MHz	Pass	PK	11.56622G	57.97	74.00	-16.03	3	Vertical	213	1.29	-
5785MHz	Pass	AV	11.56988G	45.33	54.00	-8.67	3	Horizontal	181	1.26	-
5785MHz	Pass	PK	11.57792G	58.20	74.00	-15.80	3	Horizontal	181	1.26	-
5825MHz	Pass	AV	5.8214G	100.65	Inf	-Inf	3	Vertical	199	3.00	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	PK	5.6354G	56.58	68.20	-11.62	3	Vertical	199	3.00	-
5825MHz	Pass	PK	5.831G	109.83	Inf	-Inf	3	Vertical	199	3.00	-
5825MHz	Pass	PK	5.9378G	57.28	68.20	-10.92	3	Vertical	199	3.00	-
5825MHz	Pass	AV	5.8226G	104.28	Inf	-Inf	3	Horizontal	266	2.39	-
5825MHz	Pass	PK	5.5406G	56.79	68.20	-11.41	3	Horizontal	266	2.39	-
5825MHz	Pass	PK	5.8226G	113.66	Inf	-Inf	3	Horizontal	266	2.39	-
5825MHz	Pass	PK	5.9354G	58.15	68.20	-10.05	3	Horizontal	266	2.39	-
5825MHz	Pass	AV	11.66134G	45.40	54.00	-8.60	3	Vertical	73	2.46	-
5825MHz	Pass	PK	11.6353G	58.09	74.00	-15.91	3	Vertical	73	2.46	-
5825MHz	Pass	AV	11.66272G	45.47	54.00	-8.53	3	Horizontal	269	1.15	-
5825MHz	Pass	PK	11.65276G	58.04	74.00	-15.96	3	Horizontal	269	1.15	-
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.15G	51.83	54.00	-2.17	3	Vertical	279	2.20	-
5180MHz	Pass	AV	5.177G	98.17	Inf	-Inf	3	Vertical	279	2.20	-
5180MHz	Pass	PK	5.1496G	64.65	74.00	-9.35	3	Vertical	279	2.20	-
5180MHz	Pass	PK	5.1746G	108.13	Inf	-Inf	3	Vertical	279	2.20	-
5180MHz	Pass	AV	5.15G	53.60	54.00	-0.40	3	Horizontal	75	2.21	-
5180MHz	Pass	AV	5.1796G	102.04	Inf	-Inf	3	Horizontal	75	2.21	-
5180MHz	Pass	PK	5.1476G	68.39	74.00	-5.61	3	Horizontal	75	2.21	-
5180MHz	Pass	PK	5.1846G	111.06	Inf	-Inf	3	Horizontal	75	2.21	-
5180MHz	Pass	PK	10.36744G	57.58	68.20	-10.62	3	Vertical	201	2.09	-
5180MHz	Pass	PK	10.37248G	57.33	68.20	-10.87	3	Horizontal	98	1.02	-
5200MHz	Pass	AV	5.15G	45.74	54.00	-8.26	3	Vertical	276	2.42	-
5200MHz	Pass	AV	5.202G	98.15	Inf	-Inf	3	Vertical	276	2.42	-
5200MHz	Pass	PK	5.1416G	57.67	74.00	-16.33	3	Vertical	276	2.42	-
5200MHz	Pass	PK	5.2044G	107.55	Inf	-Inf	3	Vertical	276	2.42	-
5200MHz	Pass	AV	5.1488G	47.02	54.00	-6.98	3	Horizontal	271	2.45	-
5200MHz	Pass	AV	5.1988G	102.18	Inf	-Inf	3	Horizontal	271	2.45	-
5200MHz	Pass	PK	5.1484G	59.94	74.00	-14.06	3	Horizontal	271	2.45	-
5200MHz	Pass	PK	5.2032G	112.08	Inf	-Inf	3	Horizontal	271	2.45	-
5200MHz	Pass	PK	10.40942G	58.48	68.20	-9.72	3	Vertical	63	2.48	-
5200MHz	Pass	PK	10.41116G	58.32	68.20	-9.88	3	Horizontal	236	2.42	-
5240MHz	Pass	AV	5.0972G	44.95	54.00	-9.05	3	Vertical	273	3.00	-
5240MHz	Pass	AV	5.2424G	97.78	Inf	-Inf	3	Vertical	273	3.00	-
5240MHz	Pass	AV	5.3696G	43.04	54.00	-10.96	3	Vertical	273	3.00	-
5240MHz	Pass	PK	5.108G	57.70	74.00	-16.30	3	Vertical	273	3.00	-
5240MHz	Pass	PK	5.2448G	107.11	Inf	-Inf	3	Vertical	273	3.00	-
5240MHz	Pass	PK	5.3582G	55.45	74.00	-18.55	3	Vertical	273	3.00	-
5240MHz	Pass	AV	5.0936G	45.16	54.00	-8.84	3	Horizontal	263	1.93	-
5240MHz	Pass	AV	5.234G	102.59	Inf	-Inf	3	Horizontal	263	1.93	-
5240MHz	Pass	AV	5.3834G	43.71	54.00	-10.29	3	Horizontal	263	1.93	-
5240MHz	Pass	PK	5.0996G	57.79	74.00	-16.21	3	Horizontal	263	1.93	-
5240MHz	Pass	PK	5.2424G	111.91	Inf	-Inf	3	Horizontal	263	1.93	-
5240MHz	Pass	PK	5.3558G	55.26	74.00	-18.74	3	Horizontal	263	1.93	-
5240MHz	Pass	PK	10.48474G	58.14	68.20	-10.06	3	Vertical	40	1.67	-
5240MHz	Pass	PK	10.48162G	58.72	68.20	-9.48	3	Horizontal	127	1.41	-
5260MHz	Pass	AV	5.1226G	44.69	54.00	-9.31	3	Vertical	227	2.97	-
5260MHz	Pass	AV	5.254G	99.87	Inf	-Inf	3	Vertical	227	2.97	-
5260MHz	Pass	AV	5.3614G	43.06	54.00	-10.94	3	Vertical	227	2.97	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5260MHz	Pass	PK	5.137G	57.19	74.00	-16.81	3	Vertical	227	2.97	-
5260MHz	Pass	PK	5.2564G	108.59	Inf	-Inf	3	Vertical	227	2.97	-
5260MHz	Pass	PK	5.3788G	55.14	74.00	-18.86	3	Vertical	227	2.97	-
5260MHz	Pass	AV	5.1184G	44.89	54.00	-9.11	3	Horizontal	80	2.01	-
5260MHz	Pass	AV	5.254G	102.75	Inf	-Inf	3	Horizontal	80	2.01	-
5260MHz	Pass	AV	5.401G	43.60	54.00	-10.40	3	Horizontal	80	2.01	-
5260MHz	Pass	PK	5.1148G	58.76	74.00	-15.24	3	Horizontal	80	2.01	-
5260MHz	Pass	PK	5.2624G	112.21	Inf	-Inf	3	Horizontal	80	2.01	-
5260MHz	Pass	PK	5.4094G	56.58	74.00	-17.42	3	Horizontal	80	2.01	-
5260MHz	Pass	PK	10.52098G	60.01	68.20	-8.19	3	Vertical	147	1.56	-
5260MHz	Pass	PK	10.52552G	59.68	68.20	-8.52	3	Horizontal	313	1.24	-
5300MHz	Pass	AV	5.2944G	97.77	Inf	-Inf	3	Vertical	100	2.21	-
5300MHz	Pass	AV	5.3516G	44.11	54.00	-9.89	3	Vertical	100	2.21	-
5300MHz	Pass	PK	5.2972G	107.26	Inf	-Inf	3	Vertical	100	2.21	-
5300MHz	Pass	PK	5.368G	55.96	74.00	-18.04	3	Vertical	100	2.21	-
5300MHz	Pass	AV	5.2952G	102.88	Inf	-Inf	3	Horizontal	256	2.13	-
5300MHz	Pass	AV	5.35G	46.02	54.00	-7.98	3	Horizontal	256	2.13	-
5300MHz	Pass	PK	5.2948G	111.92	Inf	-Inf	3	Horizontal	256	2.13	-
5300MHz	Pass	PK	5.35G	58.26	74.00	-15.74	3	Horizontal	256	2.13	-
5300MHz	Pass	PK	10.59266G	58.18	68.20	-10.02	3	Vertical	59	2.07	-
5300MHz	Pass	PK	10.59418G	58.53	68.20	-9.67	3	Horizontal	173	1.00	-
5320MHz	Pass	AV	5.3222G	97.59	Inf	-Inf	3	Vertical	102	2.35	-
5320MHz	Pass	AV	5.35G	49.69	54.00	-4.31	3	Vertical	102	2.35	-
5320MHz	Pass	PK	5.317G	107.32	Inf	-Inf	3	Vertical	102	2.35	-
5320MHz	Pass	PK	5.3524G	64.46	74.00	-9.54	3	Vertical	102	2.35	-
5320MHz	Pass	AV	5.315G	102.56	Inf	-Inf	3	Horizontal	259	2.30	-
5320MHz	Pass	AV	5.35G	53.80	54.00	-0.20	3	Horizontal	259	2.30	-
5320MHz	Pass	PK	5.3126G	111.92	Inf	-Inf	3	Horizontal	259	2.30	-
5320MHz	Pass	PK	5.3506G	69.10	74.00	-4.90	3	Horizontal	259	2.30	-
5320MHz	Pass	AV	10.64372G	45.04	54.00	-8.96	3	Vertical	280	1.38	-
5320MHz	Pass	PK	10.64066G	57.81	74.00	-16.19	3	Vertical	280	1.38	-
5320MHz	Pass	AV	10.66446G	44.99	54.00	-9.01	3	Horizontal	335	1.78	-
5320MHz	Pass	PK	10.64006G	57.50	74.00	-16.50	3	Horizontal	335	1.78	-
5500MHz	Pass	AV	5.4594G	44.74	54.00	-9.26	3	Vertical	97	2.84	-
5500MHz	Pass	AV	5.502G	95.79	Inf	-Inf	3	Vertical	97	2.84	-
5500MHz	Pass	PK	5.467G	61.69	68.20	-6.51	3	Vertical	97	2.84	-
5500MHz	Pass	PK	5.5048G	104.92	Inf	-Inf	3	Vertical	97	2.84	-
5500MHz	Pass	AV	5.4594G	48.76	54.00	-5.24	3	Horizontal	85	2.16	-
5500MHz	Pass	AV	5.4986G	102.42	Inf	-Inf	3	Horizontal	85	2.16	-
5500MHz	Pass	PK	5.4688G	68.08	68.20	-0.12	3	Horizontal	85	2.16	-
5500MHz	Pass	PK	5.4988G	113.41	Inf	-Inf	3	Horizontal	85	2.16	-
5500MHz	Pass	AV	11.00522G	45.61	54.00	-8.39	3	Vertical	179	2.37	-
5500MHz	Pass	PK	11.0117G	58.61	74.00	-15.39	3	Vertical	179	2.37	-
5500MHz	Pass	AV	11.0072G	45.74	54.00	-8.26	3	Horizontal	47	2.36	-
5500MHz	Pass	PK	10.99614G	58.27	74.00	-15.73	3	Horizontal	47	2.36	-
5580MHz	Pass	AV	5.4462G	42.82	54.00	-11.18	3	Vertical	6	2.82	-
5580MHz	Pass	AV	5.5764G	97.57	Inf	-Inf	3	Vertical	6	2.82	-
5580MHz	Pass	PK	5.4624G	55.45	68.20	-12.75	3	Vertical	6	2.82	-
5580MHz	Pass	PK	5.5764G	107.12	Inf	-Inf	3	Vertical	6	2.82	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5580MHz	Pass	PK	5.7276G	56.36	68.20	-11.84	3	Vertical	6	2.82	-
5580MHz	Pass	AV	5.4504G	43.51	54.00	-10.49	3	Horizontal	86	2.35	-
5580MHz	Pass	AV	5.574G	104.38	Inf	-Inf	3	Horizontal	86	2.35	-
5580MHz	Pass	PK	5.4696G	55.54	68.20	-12.66	3	Horizontal	86	2.35	-
5580MHz	Pass	PK	5.5764G	114.33	Inf	-Inf	3	Horizontal	86	2.35	-
5580MHz	Pass	PK	5.7276G	56.19	68.20	-12.01	3	Horizontal	86	2.35	-
5580MHz	Pass	AV	11.16094G	45.69	54.00	-8.31	3	Vertical	110	1.52	-
5580MHz	Pass	PK	11.16064G	58.22	74.00	-15.78	3	Vertical	110	1.52	-
5580MHz	Pass	AV	11.16066G	45.62	54.00	-8.38	3	Horizontal	336	1.86	-
5580MHz	Pass	PK	11.15994G	58.76	74.00	-15.24	3	Horizontal	336	1.86	-
5700MHz	Pass	AV	5.6962G	97.70	Inf	-Inf	3	Vertical	12	2.95	-
5700MHz	Pass	PK	5.6986G	107.87	Inf	-Inf	3	Vertical	12	2.95	-
5700MHz	Pass	PK	5.726G	64.92	68.20	-3.28	3	Vertical	12	2.95	-
5700MHz	Pass	AV	5.701G	101.65	Inf	-Inf	3	Horizontal	80	2.35	-
5700MHz	Pass	PK	5.6988G	112.62	Inf	-Inf	3	Horizontal	80	2.35	-
5700MHz	Pass	PK	5.7252G	67.93	68.20	-0.27	3	Horizontal	80	2.35	-
5700MHz	Pass	AV	11.402G	44.65	54.00	-9.35	3	Vertical	77	1.34	-
5700MHz	Pass	PK	11.40G	57.50	74.00	-16.50	3	Vertical	77	1.34	-
5700MHz	Pass	AV	11.3901G	44.64	54.00	-9.36	3	Horizontal	266	1.56	-
5700MHz	Pass	PK	11.4018G	57.22	74.00	-16.78	3	Horizontal	266	1.56	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4548G	42.85	54.00	-11.15	3	Vertical	229	2.95	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7164G	99.75	Inf	-Inf	3	Vertical	229	2.95	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.46G	55.06	74.00	-18.94	3	Vertical	229	2.95	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7224G	108.38	Inf	-Inf	3	Vertical	229	2.95	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.8856G	57.22	68.20	-10.98	3	Vertical	229	2.95	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4596G	43.16	54.00	-10.84	3	Horizontal	81	2.25	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7236G	103.93	Inf	-Inf	3	Horizontal	81	2.25	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.462G	55.17	68.20	-13.03	3	Horizontal	81	2.25	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7236G	114.01	Inf	-Inf	3	Horizontal	81	2.25	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.912G	57.93	68.20	-10.27	3	Horizontal	81	2.25	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.42554G	44.78	54.00	-9.22	3	Vertical	8	2.06	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.4343G	57.34	74.00	-16.66	3	Vertical	8	2.06	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.42662G	44.98	54.00	-9.02	3	Horizontal	83	2.03	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.42698G	57.58	74.00	-16.42	3	Horizontal	83	2.03	-
5745MHz	Pass	AV	5.739G	99.56	Inf	-Inf	3	Vertical	193	2.99	-
5745MHz	Pass	PK	5.6454G	56.14	68.20	-12.06	3	Vertical	193	2.99	-
5745MHz	Pass	PK	5.751G	110.25	Inf	-Inf	3	Vertical	193	2.99	-
5745MHz	Pass	PK	5.9454G	57.18	68.20	-11.02	3	Vertical	193	2.99	-
5745MHz	Pass	AV	5.7462G	104.10	Inf	-Inf	3	Horizontal	270	2.20	-
5745MHz	Pass	PK	5.5806G	57.07	68.20	-11.13	3	Horizontal	270	2.20	-
5745MHz	Pass	PK	5.7534G	113.30	Inf	-Inf	3	Horizontal	270	2.20	-
5745MHz	Pass	PK	5.949G	57.51	68.20	-10.69	3	Horizontal	270	2.20	-
5745MHz	Pass	AV	11.49918G	45.04	54.00	-8.96	3	Vertical	152	2.25	-
5745MHz	Pass	PK	11.48286G	58.23	74.00	-15.77	3	Vertical	152	2.25	-
5745MHz	Pass	AV	11.50272G	44.86	54.00	-9.14	3	Horizontal	205	1.45	-
5745MHz	Pass	PK	11.50416G	57.75	74.00	-16.25	3	Horizontal	205	1.45	-
5785MHz	Pass	AV	5.7886G	100.10	Inf	-Inf	3	Vertical	198	3.00	-
5785MHz	Pass	PK	5.6494G	56.16	68.20	-12.04	3	Vertical	198	3.00	-
5785MHz	Pass	PK	5.791G	109.77	Inf	-Inf	3	Vertical	198	3.00	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5785MHz	Pass	PK	5.9554G	56.93	68.20	-11.27	3	Vertical	198	3.00	-
5785MHz	Pass	AV	5.7862G	102.99	Inf	-Inf	3	Horizontal	264	1.86	-
5785MHz	Pass	PK	5.6398G	56.61	68.20	-11.59	3	Horizontal	264	1.86	-
5785MHz	Pass	PK	5.779G	112.86	Inf	-Inf	3	Horizontal	264	1.86	-
5785MHz	Pass	PK	5.9518G	57.16	68.20	-11.04	3	Horizontal	264	1.86	-
5785MHz	Pass	AV	11.57798G	45.18	54.00	-8.82	3	Vertical	129	2.06	-
5785MHz	Pass	PK	11.57372G	58.59	74.00	-15.41	3	Vertical	129	2.06	-
5785MHz	Pass	AV	11.56814G	45.29	54.00	-8.71	3	Horizontal	81	1.97	-
5785MHz	Pass	PK	11.58356G	57.59	74.00	-16.41	3	Horizontal	81	1.97	-
5825MHz	Pass	AV	5.819G	99.98	Inf	-Inf	3	Vertical	167	2.96	-
5825MHz	Pass	PK	5.5406G	55.85	68.20	-12.35	3	Vertical	167	2.96	-
5825MHz	Pass	PK	5.8238G	109.52	Inf	-Inf	3	Vertical	167	2.96	-
5825MHz	Pass	PK	5.957G	56.73	68.20	-11.47	3	Vertical	167	2.96	-
5825MHz	Pass	AV	5.8286G	103.32	Inf	-Inf	3	Horizontal	262	2.24	-
5825MHz	Pass	PK	5.6438G	56.57	68.20	-11.63	3	Horizontal	262	2.24	-
5825MHz	Pass	PK	5.8262G	112.57	Inf	-Inf	3	Horizontal	262	2.24	-
5825MHz	Pass	PK	5.9786G	57.12	68.20	-11.08	3	Horizontal	262	2.24	-
5825MHz	Pass	AV	11.65714G	45.33	54.00	-8.67	3	Vertical	201	1.40	-
5825MHz	Pass	PK	11.66434G	58.06	74.00	-15.94	3	Vertical	201	1.40	-
5825MHz	Pass	AV	11.6617G	45.38	54.00	-8.62	3	Horizontal	244	2.70	-
5825MHz	Pass	PK	11.63788G	58.26	74.00	-15.74	3	Horizontal	244	2.70	-
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.1492G	52.91	54.00	-1.09	3	Vertical	278	2.21	-
5190MHz	Pass	AV	5.1944G	93.44	Inf	-Inf	3	Vertical	278	2.21	-
5190MHz	Pass	PK	5.1472G	64.11	74.00	-9.89	3	Vertical	278	2.21	-
5190MHz	Pass	PK	5.1944G	102.79	Inf	-Inf	3	Vertical	278	2.21	-
5190MHz	Pass	AV	5.1488G	53.86	54.00	-0.14	3	Horizontal	270	2.09	-
5190MHz	Pass	AV	5.1812G	97.51	Inf	-Inf	3	Horizontal	270	2.09	-
5190MHz	Pass	PK	5.1464G	67.89	74.00	-6.11	3	Horizontal	270	2.09	-
5190MHz	Pass	PK	5.1836G	106.78	Inf	-Inf	3	Horizontal	270	2.09	-
5190MHz	Pass	PK	10.38452G	58.32	68.20	-9.88	3	Vertical	312	1.33	-
5190MHz	Pass	PK	10.38054G	58.12	68.20	-10.08	3	Horizontal	246	1.18	-
5230MHz	Pass	AV	5.1496G	49.37	54.00	-4.63	3	Vertical	276	2.18	-
5230MHz	Pass	AV	5.2244G	96.71	Inf	-Inf	3	Vertical	276	2.18	-
5230MHz	Pass	PK	5.1472G	61.43	74.00	-12.57	3	Vertical	276	2.18	-
5230MHz	Pass	PK	5.2244G	106.45	Inf	-Inf	3	Vertical	276	2.18	-
5230MHz	Pass	AV	5.1496G	51.52	54.00	-2.48	3	Horizontal	262	1.98	-
5230MHz	Pass	AV	5.2336G	100.64	Inf	-Inf	3	Horizontal	262	1.98	-
5230MHz	Pass	PK	5.1416G	63.44	74.00	-10.56	3	Horizontal	262	1.98	-
5230MHz	Pass	PK	5.236G	109.16	Inf	-Inf	3	Horizontal	262	1.98	-
5230MHz	Pass	PK	10.46004G	59.06	68.20	-9.14	3	Vertical	88	1.80	-
5230MHz	Pass	PK	10.46032G	58.05	68.20	-10.15	3	Horizontal	170	1.33	-
5270MHz	Pass	AV	5.2672G	95.48	Inf	-Inf	3	Vertical	95	2.50	-
5270MHz	Pass	AV	5.35G	45.50	54.00	-8.50	3	Vertical	95	2.50	-
5270MHz	Pass	PK	5.2744G	104.98	Inf	-Inf	3	Vertical	95	2.50	-
5270MHz	Pass	PK	5.354G	56.71	74.00	-17.29	3	Vertical	95	2.50	-
5270MHz	Pass	AV	5.2672G	100.15	Inf	-Inf	3	Horizontal	255	2.48	-
5270MHz	Pass	AV	5.35G	47.38	54.00	-6.62	3	Horizontal	255	2.48	-
5270MHz	Pass	PK	5.2676G	108.89	Inf	-Inf	3	Horizontal	255	2.48	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5270MHz	Pass	PK	5.3544G	58.99	74.00	-15.01	3	Horizontal	255	2.48	-
5270MHz	Pass	PK	10.54536G	59.48	68.20	-8.72	3	Vertical	106	1.95	-
5270MHz	Pass	PK	10.54518G	60.14	68.20	-8.06	3	Horizontal	336	2.48	-
5310MHz	Pass	AV	5.3148G	92.54	Inf	-Inf	3	Vertical	99	2.90	-
5310MHz	Pass	AV	5.35G	50.64	54.00	-3.36	3	Vertical	99	2.90	-
5310MHz	Pass	PK	5.3176G	101.92	Inf	-Inf	3	Vertical	99	2.90	-
5310MHz	Pass	PK	5.352G	63.47	74.00	-10.53	3	Vertical	99	2.90	-
5310MHz	Pass	AV	5.3G	98.05	Inf	-Inf	3	Horizontal	268	2.09	-
5310MHz	Pass	AV	5.35G	53.89	54.00	-0.11	3	Horizontal	268	2.09	-
5310MHz	Pass	PK	5.3052G	106.61	Inf	-Inf	3	Horizontal	268	2.09	-
5310MHz	Pass	PK	5.3552G	69.07	74.00	-4.93	3	Horizontal	268	2.09	-
5310MHz	Pass	AV	10.62046G	46.05	54.00	-7.95	3	Vertical	178	1.54	-
5310MHz	Pass	PK	10.61814G	58.45	74.00	-15.55	3	Vertical	178	1.54	-
5310MHz	Pass	AV	10.62182G	45.85	54.00	-8.15	3	Horizontal	9	1.00	-
5310MHz	Pass	PK	10.62112G	58.31	74.00	-15.69	3	Horizontal	9	1.00	-
5510MHz	Pass	AV	5.4544G	47.41	54.00	-6.59	3	Vertical	64	3.00	-
5510MHz	Pass	AV	5.504G	91.78	Inf	-Inf	3	Vertical	64	3.00	-
5510MHz	Pass	PK	5.4616G	65.23	68.20	-2.97	3	Vertical	64	3.00	-
5510MHz	Pass	PK	5.5016G	101.85	Inf	-Inf	3	Vertical	64	3.00	-
5510MHz	Pass	AV	5.4536G	53.61	54.00	-0.39	3	Horizontal	84	1.95	-
5510MHz	Pass	AV	5.5088G	99.05	Inf	-Inf	3	Horizontal	84	1.95	-
5510MHz	Pass	PK	5.4688G	68.13	68.20	-0.07	3	Horizontal	84	1.95	-
5510MHz	Pass	PK	5.5036G	108.20	Inf	-Inf	3	Horizontal	84	1.95	-
5510MHz	Pass	AV	11.02242G	46.48	54.00	-7.52	3	Vertical	315	1.19	-
5510MHz	Pass	PK	11.02502G	58.36	74.00	-15.64	3	Vertical	315	1.19	-
5510MHz	Pass	AV	11.02246G	46.58	54.00	-7.42	3	Horizontal	136	1.71	-
5510MHz	Pass	PK	11.02422G	59.33	74.00	-14.67	3	Horizontal	136	1.71	-
5550MHz	Pass	AV	5.4596G	46.25	54.00	-7.75	3	Vertical	222	3.00	-
5550MHz	Pass	AV	5.5428G	94.80	Inf	-Inf	3	Vertical	222	3.00	-
5550MHz	Pass	PK	5.4688G	58.13	68.20	-10.07	3	Vertical	222	3.00	-
5550MHz	Pass	PK	5.5376G	103.71	Inf	-Inf	3	Vertical	222	3.00	-
5550MHz	Pass	AV	5.4588G	50.19	54.00	-3.81	3	Horizontal	85	2.36	-
5550MHz	Pass	AV	5.5488G	101.23	Inf	-Inf	3	Horizontal	85	2.36	-
5550MHz	Pass	PK	5.4692G	64.04	68.20	-4.16	3	Horizontal	85	2.36	-
5550MHz	Pass	PK	5.5564G	110.57	Inf	-Inf	3	Horizontal	85	2.36	-
5550MHz	Pass	AV	11.09926G	46.48	54.00	-7.52	3	Vertical	126	1.95	-
5550MHz	Pass	PK	11.09208G	58.16	74.00	-15.84	3	Vertical	126	1.95	-
5550MHz	Pass	AV	11.10534G	46.44	54.00	-7.56	3	Horizontal	271	1.57	-
5550MHz	Pass	PK	11.09124G	58.76	74.00	-15.24	3	Horizontal	271	1.57	-
5670MHz	Pass	AV	5.6676G	96.44	Inf	-Inf	3	Vertical	217	2.99	-
5670MHz	Pass	PK	5.6676G	106.22	Inf	-Inf	3	Vertical	217	2.99	-
5670MHz	Pass	PK	5.7252G	63.91	68.20	-4.29	3	Vertical	217	2.99	-
5670MHz	Pass	AV	5.6664G	101.40	Inf	-Inf	3	Horizontal	80	1.87	-
5670MHz	Pass	PK	5.6832G	110.94	Inf	-Inf	3	Horizontal	80	1.87	-
5670MHz	Pass	PK	5.7276G	67.93	68.20	-0.27	3	Horizontal	80	1.87	-
5670MHz	Pass	AV	11.34594G	45.34	54.00	-8.66	3	Vertical	56	2.37	-
5670MHz	Pass	PK	11.3418G	58.16	74.00	-15.84	3	Vertical	56	2.37	-
5670MHz	Pass	AV	11.34584G	45.34	54.00	-8.66	3	Horizontal	45	1.83	-
5670MHz	Pass	PK	11.34224G	57.40	74.00	-16.60	3	Horizontal	45	1.83	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4412G	43.74	54.00	-10.26	3	Vertical	222	2.96	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.704G	98.14	Inf	-Inf	3	Vertical	222	2.96	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4616G	55.13	68.20	-13.07	3	Vertical	222	2.96	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.716G	106.34	Inf	-Inf	3	Vertical	222	2.96	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.956G	57.10	68.20	-11.10	3	Vertical	222	2.96	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4484G	44.11	54.00	-9.89	3	Horizontal	80	2.28	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.7232G	101.71	Inf	-Inf	3	Horizontal	80	2.28	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4628G	56.70	68.20	-11.50	3	Horizontal	80	2.28	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.716G	110.69	Inf	-Inf	3	Horizontal	80	2.28	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.9656G	57.66	68.20	-10.54	3	Horizontal	80	2.28	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.42096G	45.67	54.00	-8.33	3	Vertical	223	1.86	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.41976G	57.12	74.00	-16.88	3	Vertical	223	1.86	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.4137G	45.53	54.00	-8.47	3	Horizontal	45	2.07	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.41922G	57.49	74.00	-16.51	3	Horizontal	45	2.07	-
5755MHz	Pass	AV	5.7562G	98.58	Inf	-Inf	3	Vertical	192	3.00	-
5755MHz	Pass	PK	5.6518G	59.47	69.53	-10.06	3	Vertical	192	3.00	-
5755MHz	Pass	PK	5.7514G	107.11	Inf	-Inf	3	Vertical	192	3.00	-
5755MHz	Pass	PK	5.9302G	57.37	68.20	-10.83	3	Vertical	192	3.00	-
5755MHz	Pass	AV	5.749G	102.96	Inf	-Inf	3	Horizontal	266	2.20	-
5755MHz	Pass	PK	5.641G	61.47	68.20	-6.73	3	Horizontal	266	2.20	-
5755MHz	Pass	PK	5.7514G	111.65	Inf	-Inf	3	Horizontal	266	2.20	-
5755MHz	Pass	PK	5.929G	57.01	68.20	-11.19	3	Horizontal	266	2.20	-
5755MHz	Pass	AV	11.51008G	46.06	54.00	-7.94	3	Vertical	306	1.97	-
5755MHz	Pass	PK	11.51032G	58.33	74.00	-15.67	3	Vertical	306	1.97	-
5755MHz	Pass	AV	11.5107G	46.01	54.00	-7.99	3	Horizontal	30	2.05	-
5755MHz	Pass	PK	11.51052G	57.74	74.00	-16.26	3	Horizontal	30	2.05	-
5795MHz	Pass	AV	5.7926G	102.52	Inf	-Inf	3	Vertical	295	1.25	-
5795MHz	Pass	PK	5.5058G	57.65	68.20	-10.55	3	Vertical	295	1.25	-
5795MHz	Pass	PK	5.8022G	110.74	Inf	-Inf	3	Vertical	295	1.25	-
5795MHz	Pass	PK	5.9306G	58.34	68.20	-9.86	3	Vertical	295	1.25	-
5795MHz	Pass	AV	5.7806G	104.81	Inf	-Inf	3	Horizontal	72	2.29	-
5795MHz	Pass	PK	5.639G	59.06	68.20	-9.14	3	Horizontal	72	2.29	-
5795MHz	Pass	PK	5.7782G	114.09	Inf	-Inf	3	Horizontal	72	2.29	-
5795MHz	Pass	PK	5.927G	60.30	68.20	-7.90	3	Horizontal	72	2.29	-
5795MHz	Pass	AV	11.59434G	46.42	54.00	-7.58	3	Vertical	60	1.96	-
5795MHz	Pass	PK	11.59392G	58.23	74.00	-15.77	3	Vertical	60	1.96	-
5795MHz	Pass	AV	11.59858G	46.24	54.00	-7.76	3	Horizontal	35	2.20	-
5795MHz	Pass	PK	11.59588G	57.79	74.00	-16.21	3	Horizontal	35	2.20	-
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.142G	51.86	54.00	-2.14	3	Vertical	106	2.46	-
5210MHz	Pass	AV	5.22G	88.35	Inf	-Inf	3	Vertical	106	2.46	-
5210MHz	Pass	AV	5.439G	47.81	54.00	-6.19	3	Vertical	106	2.46	-
5210MHz	Pass	PK	5.143G	62.74	74.00	-11.26	3	Vertical	106	2.46	-
5210MHz	Pass	PK	5.228G	97.81	Inf	-Inf	3	Vertical	106	2.46	-
5210MHz	Pass	PK	5.394G	59.14	74.00	-14.86	3	Vertical	106	2.46	-
5210MHz	Pass	AV	5.149G	53.76	54.00	-0.24	3	Horizontal	80	2.39	-
5210MHz	Pass	AV	5.221G	92.51	Inf	-Inf	3	Horizontal	80	2.39	-
5210MHz	Pass	AV	5.377G	48.02	54.00	-5.98	3	Horizontal	80	2.39	-
5210MHz	Pass	PK	5.118G	65.91	74.00	-8.09	3	Horizontal	80	2.39	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5210MHz	Pass	PK	5.222G	101.55	Inf	-Inf	3	Horizontal	80	2.39	-
5210MHz	Pass	PK	5.385G	58.93	74.00	-15.07	3	Horizontal	80	2.39	-
5210MHz	Pass	PK	10.42064G	58.05	68.20	-10.15	3	Vertical	157	2.05	-
5210MHz	Pass	PK	10.42056G	57.89	68.20	-10.31	3	Horizontal	259	2.07	-
5290MHz	Pass	AV	5.145G	47.07	54.00	-6.93	3	Vertical	98	2.20	-
5290MHz	Pass	AV	5.302G	89.96	Inf	-Inf	3	Vertical	98	2.20	-
5290MHz	Pass	AV	5.354G	50.59	54.00	-3.41	3	Vertical	98	2.20	-
5290MHz	Pass	PK	5.116G	57.71	74.00	-16.29	3	Vertical	98	2.20	-
5290MHz	Pass	PK	5.277G	100.31	Inf	-Inf	3	Vertical	98	2.20	-
5290MHz	Pass	PK	5.354G	62.52	74.00	-11.48	3	Vertical	98	2.20	-
5290MHz	Pass	AV	5.149G	48.80	54.00	-5.20	3	Horizontal	267	2.21	-
5290MHz	Pass	AV	5.285G	94.74	Inf	-Inf	3	Horizontal	267	2.21	-
5290MHz	Pass	AV	5.358G	53.69	54.00	-0.31	3	Horizontal	267	2.21	-
5290MHz	Pass	PK	5.135G	59.91	74.00	-14.09	3	Horizontal	267	2.21	-
5290MHz	Pass	PK	5.28G	103.68	Inf	-Inf	3	Horizontal	267	2.21	-
5290MHz	Pass	PK	5.367G	67.30	74.00	-6.70	3	Horizontal	267	2.21	-
5290MHz	Pass	PK	10.57268G	57.68	68.20	-10.52	3	Vertical	125	1.59	-
5290MHz	Pass	PK	10.57556G	57.78	68.20	-10.42	3	Horizontal	235	2.08	-
5530MHz	Pass	AV	5.454G	47.33	54.00	-6.67	3	Vertical	3	2.98	-
5530MHz	Pass	AV	5.522G	87.68	Inf	-Inf	3	Vertical	3	2.98	-
5530MHz	Pass	PK	5.467G	58.20	68.20	-10.00	3	Vertical	3	2.98	-
5530MHz	Pass	PK	5.527G	97.10	Inf	-Inf	3	Vertical	3	2.98	-
5530MHz	Pass	PK	5.749G	56.25	68.20	-11.95	3	Vertical	3	2.98	-
5530MHz	Pass	AV	5.459G	53.72	54.00	-0.28	3	Horizontal	81	2.36	-
5530MHz	Pass	AV	5.521G	93.43	Inf	-Inf	3	Horizontal	81	2.36	-
5530MHz	Pass	PK	5.466G	65.10	68.20	-3.10	3	Horizontal	81	2.36	-
5530MHz	Pass	PK	5.519G	103.60	Inf	-Inf	3	Horizontal	81	2.36	-
5530MHz	Pass	PK	5.767G	57.33	68.20	-10.87	3	Horizontal	81	2.36	-
5530MHz	Pass	AV	11.06768G	46.98	54.00	-7.02	3	Vertical	245	1.66	-
5530MHz	Pass	PK	11.07074G	58.29	74.00	-15.71	3	Vertical	245	1.66	-
5530MHz	Pass	AV	11.075G	46.91	54.00	-7.09	3	Horizontal	356	1.73	-
5530MHz	Pass	PK	11.05256G	58.46	74.00	-15.54	3	Horizontal	356	1.73	-
5610MHz	Pass	AV	5.451G	45.37	54.00	-8.63	3	Vertical	252	3.00	-
5610MHz	Pass	AV	5.629G	89.93	Inf	-Inf	3	Vertical	252	3.00	-
5610MHz	Pass	PK	5.467G	56.78	68.20	-11.42	3	Vertical	252	3.00	-
5610MHz	Pass	PK	5.619G	99.44	Inf	-Inf	3	Vertical	252	3.00	-
5610MHz	Pass	PK	5.756G	57.88	68.20	-10.32	3	Vertical	252	3.00	-
5610MHz	Pass	AV	5.456G	51.12	54.00	-2.88	3	Horizontal	78	1.91	-
5610MHz	Pass	AV	5.619G	97.05	Inf	-Inf	3	Horizontal	78	1.91	-
5610MHz	Pass	PK	5.462G	64.64	68.20	-3.56	3	Horizontal	78	1.91	-
5610MHz	Pass	PK	5.623G	106.77	Inf	-Inf	3	Horizontal	78	1.91	-
5610MHz	Pass	PK	5.726G	62.02	68.20	-6.18	3	Horizontal	78	1.91	-
5610MHz	Pass	AV	11.21112G	46.03	54.00	-7.97	3	Vertical	90	2.10	-
5610MHz	Pass	PK	11.235G	58.34	74.00	-15.66	3	Vertical	90	2.10	-
5610MHz	Pass	AV	11.21544G	46.05	54.00	-7.95	3	Horizontal	158	1.87	-
5610MHz	Pass	PK	11.20716G	58.06	74.00	-15.94	3	Horizontal	158	1.87	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4368G	44.00	54.00	-10.00	3	Vertical	220	3.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.6804G	92.62	Inf	-Inf	3	Vertical	220	3.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.468G	55.54	68.20	-12.66	3	Vertical	220	3.00	-



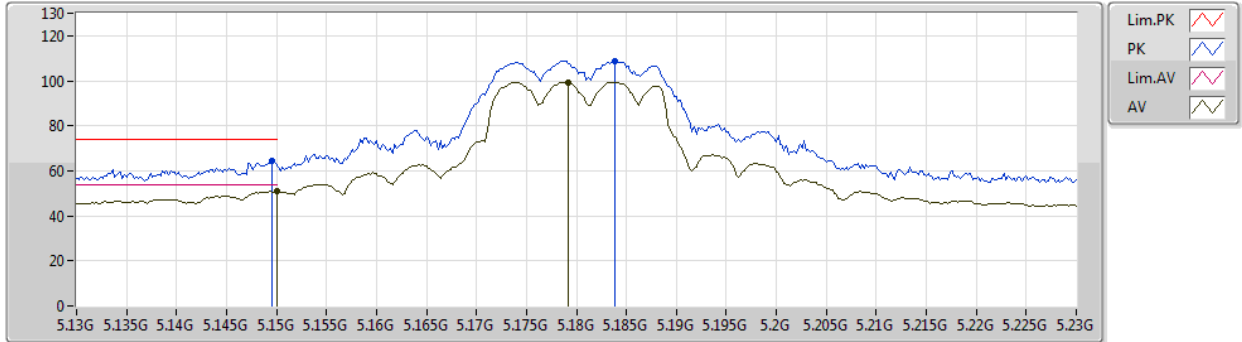
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.6744G	102.17	Inf	-Inf	3	Vertical	220	3.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8628G	57.45	68.20	-10.75	3	Vertical	220	3.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4596G	45.05	54.00	-8.95	3	Horizontal	83	2.27	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.684G	97.24	Inf	-Inf	3	Horizontal	83	2.27	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.4692G	56.57	68.20	-11.63	3	Horizontal	83	2.27	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.6816G	106.99	Inf	-Inf	3	Horizontal	83	2.27	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.852G	58.24	68.20	-9.96	3	Horizontal	83	2.27	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.37964G	45.53	54.00	-8.47	3	Vertical	248	1.96	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.36506G	58.14	74.00	-15.86	3	Vertical	248	1.96	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.3815G	45.41	54.00	-8.59	3	Horizontal	36	2.27	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.37598G	57.58	74.00	-16.42	3	Horizontal	36	2.27	-
5775MHz	Pass	AV	5.7894G	94.78	Inf	-Inf	3	Vertical	1	2.76	-
5775MHz	Pass	PK	5.6442G	62.85	68.20	-5.35	3	Vertical	1	2.76	-
5775MHz	Pass	PK	5.7666G	104.74	Inf	-Inf	3	Vertical	1	2.76	-
5775MHz	Pass	PK	5.925G	58.78	68.20	-9.42	3	Vertical	1	2.76	-
5775MHz	Pass	AV	5.7666G	98.89	Inf	-Inf	3	Horizontal	78	2.26	-
5775MHz	Pass	PK	5.6478G	68.12	68.20	-0.08	3	Horizontal	78	2.26	-
5775MHz	Pass	PK	5.7738G	108.59	Inf	-Inf	3	Horizontal	78	2.26	-
5775MHz	Pass	PK	5.9286G	60.23	68.20	-7.97	3	Horizontal	78	2.26	-
5775MHz	Pass	AV	11.55084G	46.04	54.00	-7.96	3	Vertical	235	1.31	-
5775MHz	Pass	PK	11.55096G	58.54	74.00	-15.46	3	Vertical	235	1.31	-
5775MHz	Pass	AV	11.5497G	46.03	54.00	-7.97	3	Horizontal	12	2.24	-
5775MHz	Pass	PK	11.54996G	58.02	74.00	-15.98	3	Horizontal	12	2.24	-



802.11a_Nss1,(6Mbps)_2TX

07/08/2019

5180MHz_TX



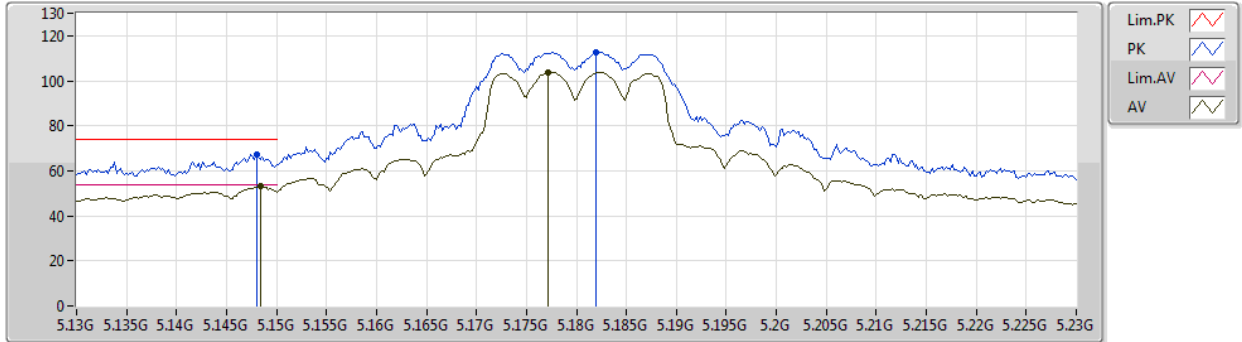
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.15G	50.91	54.00	-3.09	7.91	3	Vertical	278	2.21	-	43.00	31.90	10.08	34.07
AV	5.1792G	99.41	Inf	-Inf	7.73	3	Vertical	278	2.21	-	91.68	31.72	10.08	34.07
PK	5.1496G	64.18	74.00	-9.82	7.91	3	Vertical	278	2.21	-	56.27	31.90	10.08	34.07
PK	5.1838G	108.63	Inf	-Inf	7.71	3	Vertical	278	2.21	-	100.92	31.70	10.08	34.07



802.11a_Nss1,(6Mbps)_2TX

07/08/2019

5180MHz_TX



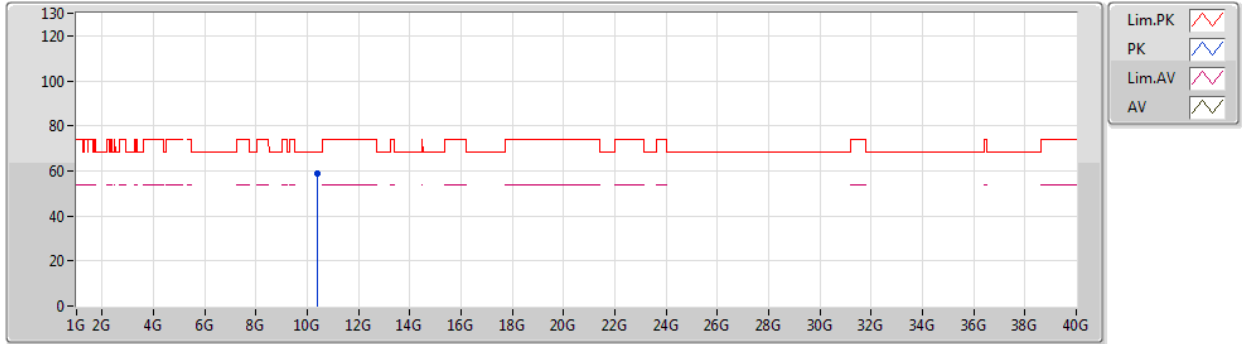
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AV	5.1484G	53.26	54.00	-0.74	7.91	3	Horizontal	264	2.07	-	45.35	31.90	10.08	34.07
AV	5.1772G	103.86	Inf	-Inf	7.75	3	Horizontal	264	2.07	-	96.11	31.74	10.08	34.07
PK	5.148G	67.46	74.00	-6.54	7.91	3	Horizontal	264	2.07	-	59.55	31.90	10.08	34.07
PK	5.182G	112.76	Inf	-Inf	7.72	3	Horizontal	264	2.07	-	105.04	31.71	10.08	34.07



802.11a_Nss1,(6Mbps)_2TX

07/08/2019

5180MHz_TX



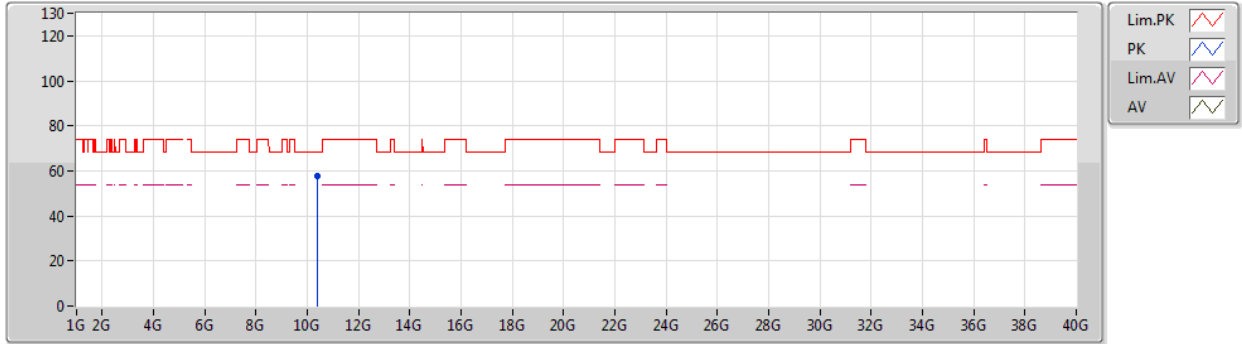
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PK	10.37308G	59.07	68.20	-9.13	17.82	3	Vertical	0	1.56	-	41.25	39.49	12.97	34.64



802.11a_Nss1,(6Mbps)_2TX

07/08/2019

5180MHz_TX



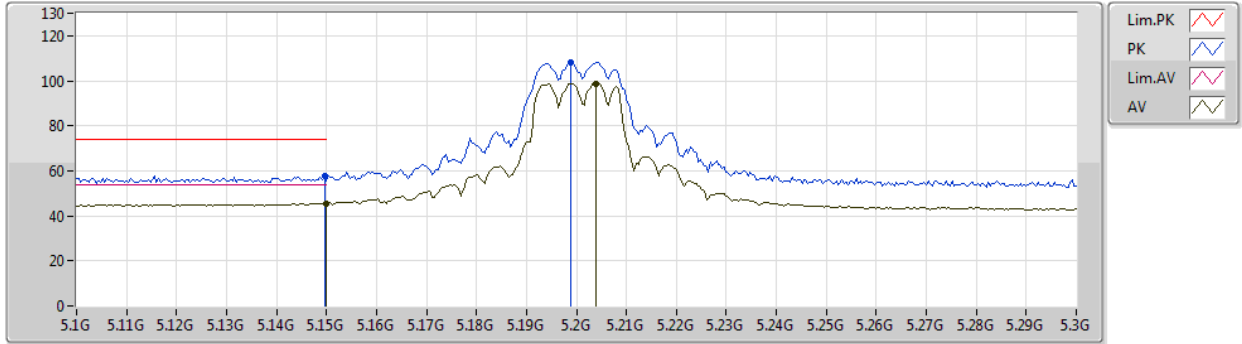
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	10.37212G	57.44	68.20	-10.76	17.82	3	Horizontal	225	1.50	-	39.62	39.49	12.97	34.64



802.11a_Nss1,(6Mbps)_2TX

07/08/2019

5200MHz_TX

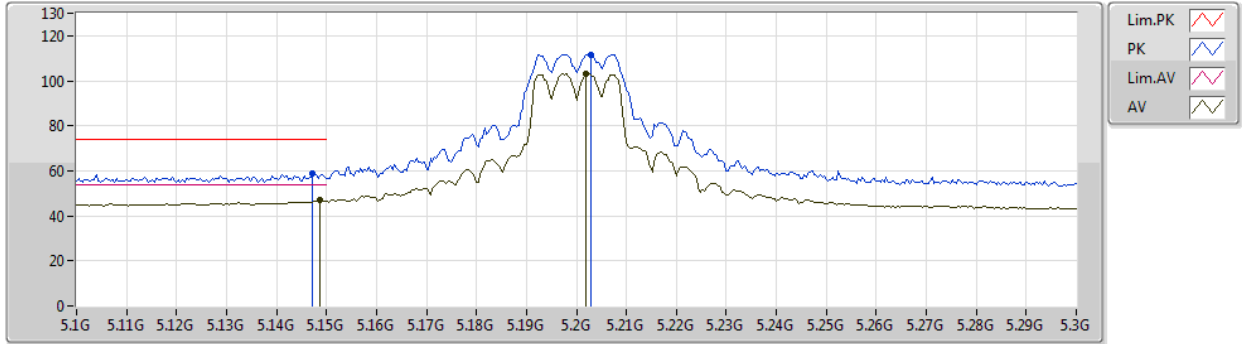


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.15G	45.58	54.00	-8.42	7.91	3	Vertical	278	2.43	-	37.67	31.90	10.08	34.07
AV	5.204G	98.86	Inf	-Inf	7.59	3	Vertical	278	2.43	-	91.27	31.58	10.08	34.07
PK	5.1496G	57.93	74.00	-16.07	7.91	3	Vertical	278	2.43	-	50.02	31.90	10.08	34.07
PK	5.1988G	108.12	Inf	-Inf	7.62	3	Vertical	278	2.43	-	100.50	31.61	10.08	34.07

802.11a_Nss1,(6Mbps)_2TX

07/08/2019

5200MHz_TX



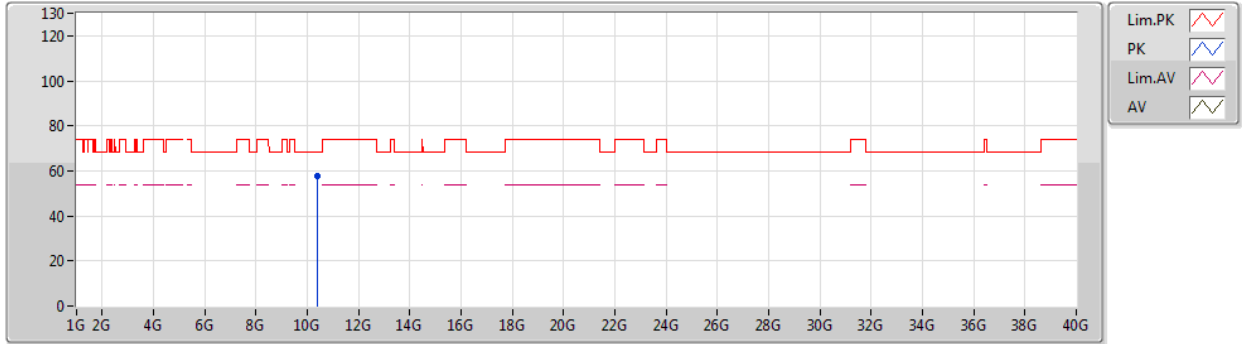
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AV	5.1488G	46.84	54.00	-7.16	7.91	3	Horizontal	268	2.45	-	38.93	31.90	10.08	34.07
AV	5.202G	103.19	Inf	-Inf	7.60	3	Horizontal	268	2.45	-	95.59	31.59	10.08	34.07
PK	5.1472G	58.93	74.00	-15.07	7.92	3	Horizontal	268	2.45	-	51.01	31.91	10.08	34.07
PK	5.2028G	111.71	Inf	-Inf	7.59	3	Horizontal	268	2.45	-	104.12	31.58	10.08	34.07



802.11a_Nss1,(6Mbps)_2TX

07/08/2019

5200MHz_TX



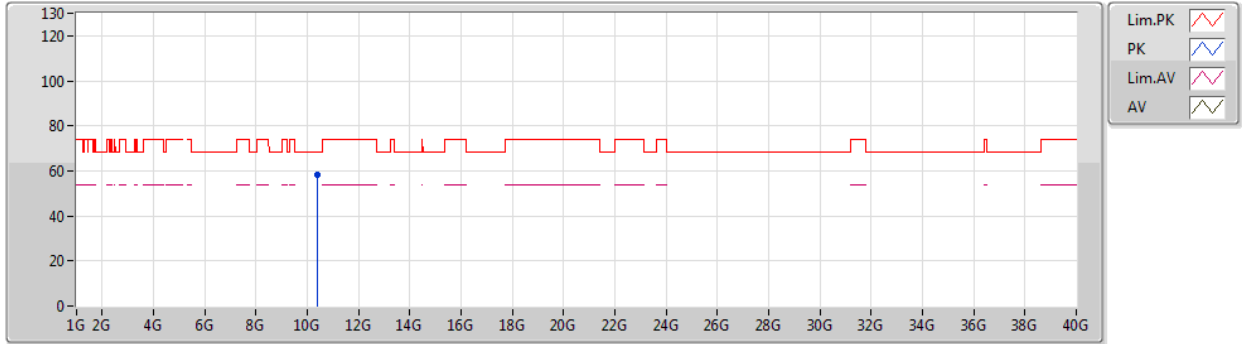
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	10.41332G	57.91	68.20	-10.29	18.00	3	Vertical	269	1.86	-	39.91	39.61	13.00	34.61



802.11a_Nss1,(6Mbps)_2TX

07/08/2019

5200MHz_TX



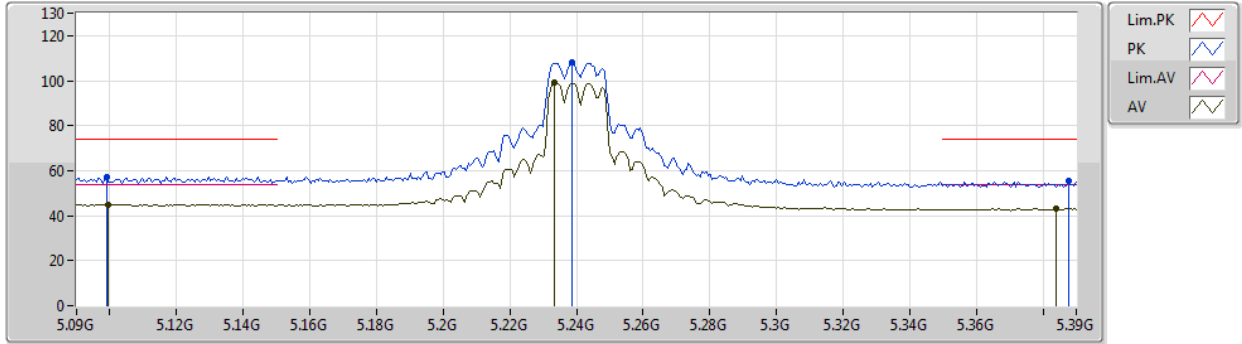
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	10.39448G	58.55	68.20	-9.65	17.93	3	Horizontal	347	1.14	-	40.62	39.58	12.98	34.63



802.11a_Nss1,(6Mbps)_2TX

07/08/2019

5240MHz_TX



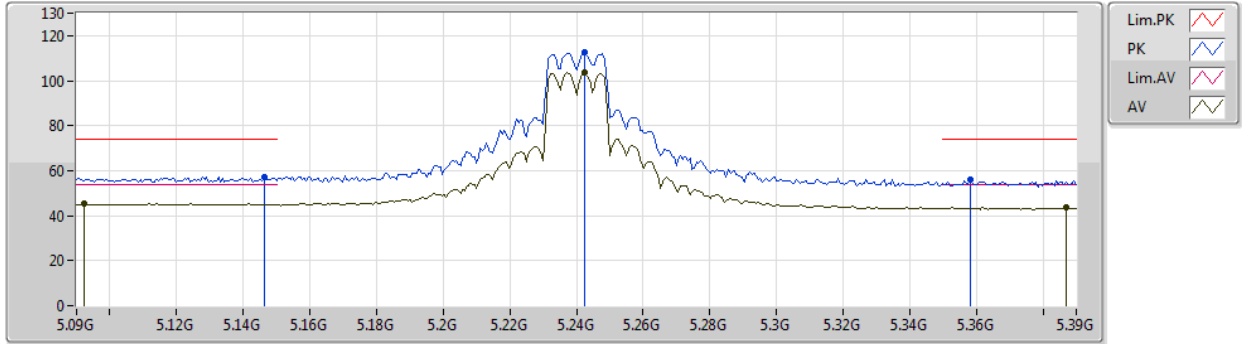
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.0996G	44.88	54.00	-9.12	8.00	3	Vertical	278	2.41	-	36.88	32.00	10.08	34.08
AV	5.2334G	99.40	Inf	-Inf	7.43	3	Vertical	278	2.41	-	91.97	31.40	10.10	34.07
AV	5.384G	43.05	54.00	-10.95	7.52	3	Vertical	278	2.41	-	35.53	31.40	10.18	34.06
PK	5.099G	57.04	74.00	-16.96	8.00	3	Vertical	278	2.41	-	49.04	32.00	10.08	34.08
PK	5.2388G	107.87	Inf	-Inf	7.40	3	Vertical	278	2.41	-	100.47	31.37	10.10	34.07
PK	5.3876G	55.56	74.00	-18.44	7.55	3	Vertical	278	2.41	-	48.01	31.43	10.18	34.06



802.11a_Nss1,(6Mbps)_2TX

07/08/2019

5240MHz_TX



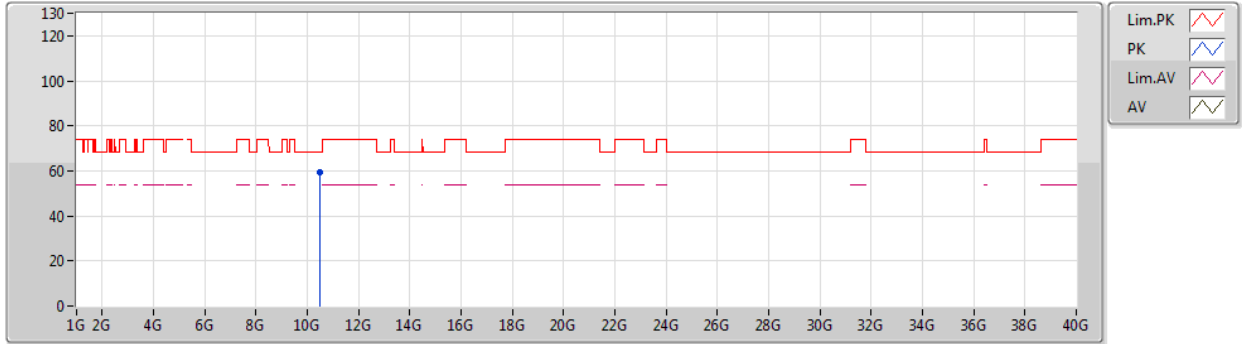
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.0924G	45.25	54.00	-8.75	7.98	3	Horizontal	270	2.40	-	37.27	31.98	10.08	34.08
AV	5.2424G	103.51	Inf	-Inf	7.38	3	Horizontal	270	2.40	-	96.13	31.35	10.10	34.07
AV	5.387G	43.71	54.00	-10.29	7.54	3	Horizontal	270	2.40	-	36.17	31.42	10.18	34.06
PK	5.1464G	57.03	74.00	-16.97	7.92	3	Horizontal	270	2.40	-	49.11	31.91	10.08	34.07
PK	5.2424G	112.65	Inf	-Inf	7.38	3	Horizontal	270	2.40	-	105.27	31.35	10.10	34.07
PK	5.3582G	55.82	74.00	-18.18	7.34	3	Horizontal	270	2.40	-	48.48	31.25	10.16	34.07



802.11a_Nss1,(6Mbps)_2TX

07/08/2019

5240MHz_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)
PK	10.49218G	59.41	68.20	-8.79	18.17	3	Vertical	268	1.26	-	41.24	39.69	13.04	34.56