

FCC Test Report

FCC ID : H8NGRYPHONAX
Equipment : WIFI Tri-band Mesh
Brand Name : Gryphon
Model Name : GRYPHON AX
Applicant : ASKEY COMPUTER CORPORATION
10F, No. 119, Jiankang Road, Zhonghe Dist.,
New Taipei City, Taiwan
Manufacturer : ASKEY COMPUTER CORPORATION
10F, No. 119, Jiankang Road, Zhonghe Dist.,
New Taipei City, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Sep. 16, 2020, and testing was started from Dec. 14, 2020 and completed on Dec. 25, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this partial 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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History of this test report

TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-D1 Ver2.6
FCC ID: H8NGRYPHONAX

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Required	-
-	15.407(a)	Emission Bandwidth	Not Required	-
3.1	15.407(a)	Maximum Conducted Output Power	PASS	-
-	15.407(a)	Peak Power Spectral Density	Not Required	-
3.2	15.407(b)	Unwanted Emissions	PASS	-
Remark: 1. Not required means after assessing, test items are not necessary to carry out. 2. This is a variant report by adding BT module. All the test cases were performed on original report which can be referred to Sporton Report Number FR091014AN as appendix D. Based on the original report, the test cases were verified.				

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: Debby Hung

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), ax(HEW20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax(HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax(HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

<Non-Beamforming>

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	2TX

< Beamforming >

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	2TX
5.15-5.25GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.15-5.25GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1-7	Askey	AP5660W	PCB antenna	I-PEX

Ant.	Peak Gain (dBi)							
	2.4G			5G		BT		
	2400MHz	2450MHz	2500MHz	U-NII-1	U-NII-3	2400MHz	2450MHz	2500MHz
1	4.13	4.05	3.94	-	4.10	-	-	-
2	4.13	4.05	3.94	-	4.10	-	-	-
3	-	-	-	3.46	-			
4	-	-	-	3.46	-			
5	-	-	-	3.46	-			
6	-	-	-	3.46	-			
7	-	-	-	-	-	3.25	3.40	2.52

Ant.	Gain (dBi)				
	2.4G			5G	
	2400MHz	2450MHz	2500MHz	U-NII-1	U-NII-3
1	3.36	4.46	4.85	-	5.56
2	3.36	4.46	4.85	-	5.56
3	-	-	-	6.05	-
4	-	-	-	6.05	-
5	-	-	-	6.05	-
6	-	-	-	6.05	-

Note 1: The EUT has seven antennas.

For 2.4GHz function:

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

Ant. 1 and Ant. 2 could transmit/receive simultaneously.

For BT function:

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

Ant. 7 could transmit/receive.

For 5GHz function:

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

Only Ant. 1~2 can be used as transmitting/receiving antenna.

For IEEE 802.11 a/n/ac/ax mode (4TX/4RX)

Only Ant. 3~6 can be used as transmitting/receiving antenna.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter		
EUT Function	☐ Outdoor AP	☒ Indoor AP(Mesh)	
	☐ Fixed P2P AP	☐ Outdoor/Indoor Client	
Beamforming Function	☒ With beamforming	☐ Without beamforming	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		
☐	Other:		

1.1.4 Mode Test Duty Cycle

<Non-Beamforming>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW80_Nss1,(MCS0)_4TX	0.949	0.23	5.445m	300

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

< Beamforming>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.895	0.48	1.933m	1k

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

1.1.5 Spot Check channel list

Mode	2.4G	5G
CDD	AX40 CH2452	AX80 CH5210
TXBF	AX20 CH2412	AX40 CH5190

1.2 Testing Applied Standards

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

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

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

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

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			
☐	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Alan Chien	22.8~25.1°C / 56~67%	14/Dec/2020~25/Dec/2020
Radiated	03CH02-HY	Streak Liao	20.2~22.9°C / 52~60%	21/Dec/2020

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

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

2.2 Test Channel Mode

<Non-Beamforming>

Test Software Version	QSPR
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Mode	Power Setting
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	19

<Beamforming>

Test Software Version	DOS 6.1
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Mode	Power Setting
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	23.5

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Maximum Conducted Output Power
Test Condition	Conducted measurement at transmit chains

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz + WLAN 5GHz Band+Bluetooth
Refer to Sporton Test Report No.: FA091021 for Co-location RF Exposure Evaluation .	

2.4 Accessories

Accessories				
AC Adapter 1 (US Plug)	Brand Name	FLYPOWER	Model Name	PS24L120K2000UD
	Power Rating	I/P: 100-240 Vac, 0.8 A, O/P: 12.0 Vdc, 2.0A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		
AC Adapter 2 (US Plug)	Brand Name	APD	Model Name	WB-24J12FU
	Power Rating	I/P: 100-240 Vac, 0.7A, O/P: 12 Vdc, 2.0A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		
RJ45 Cable	Signal Line	1.8 meter, non-shielded cable, w/o ferrite core		

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

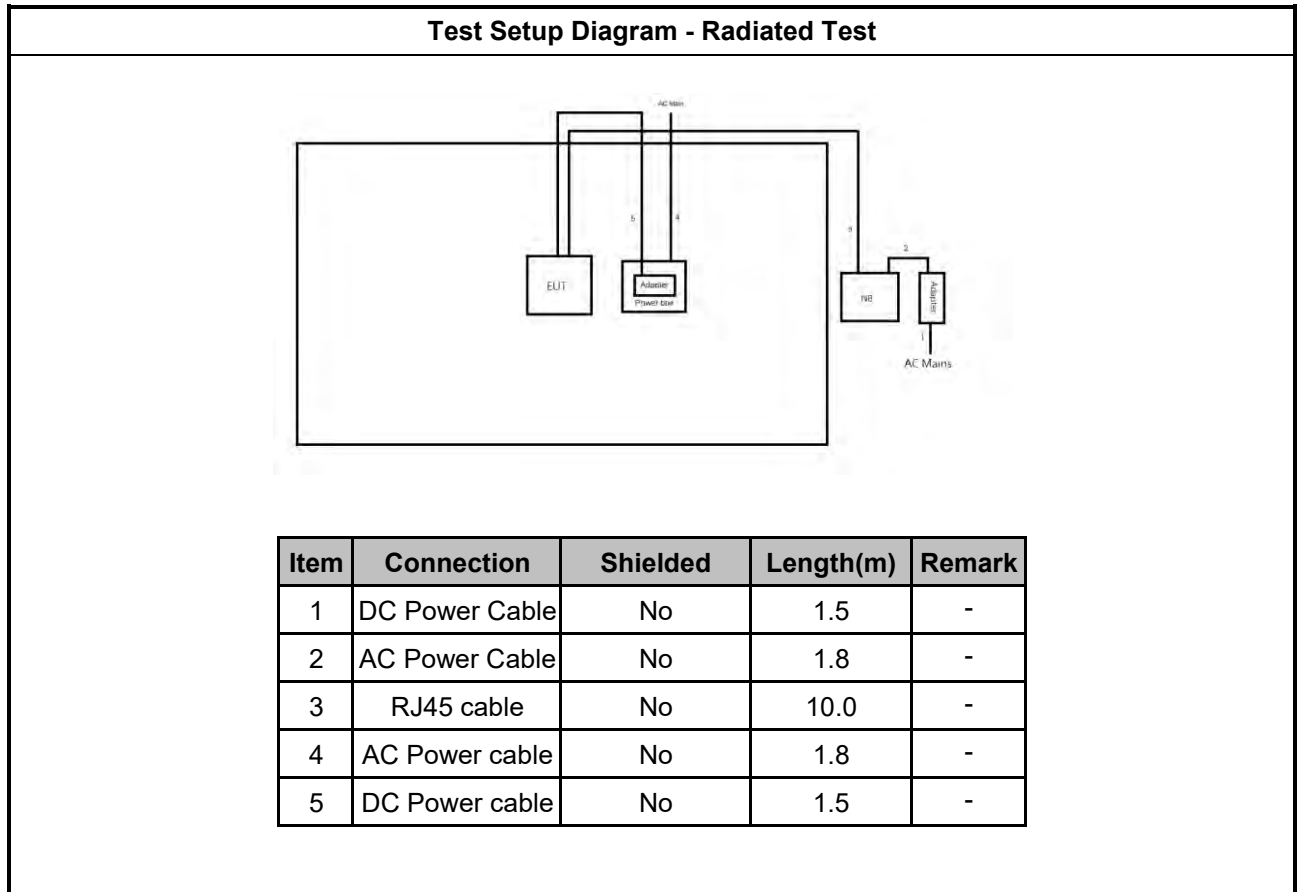
2.5 Support Equipment

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

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power Sync	CAT-6E-10	-	-
2	Notebook (Remote)	Dell	PP13S	-	-
3	Adapter for NB (Remote)	Dell	AA90PM111	-	-
4	RJ45 Cable (Remote)	Power Sync	CAT-6E-01	-	-
5	Adapter (Remote)	Sunny	SYS1620-3012-W2	-	-

Note: Support equipment No.5 was provided by customer.

2.6 Test Setup Diagram



3 Transmitter Test Result

3.1 Maximum Conducted Output Power

3.1.1 Maximum Conducted Output Power Limit

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

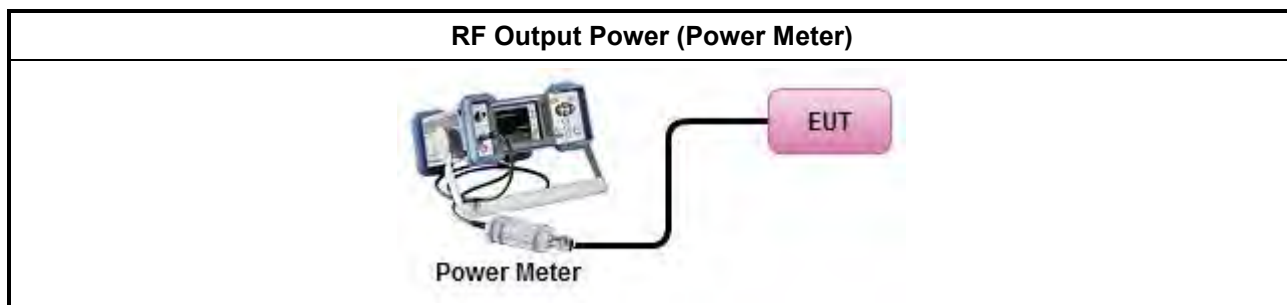
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	Duty cycle $\geq 98\%$
☐	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
☐	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as KDB 789033, clause E Method PM (using an RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Refer as Appendix A

3.2 Unwanted Emissions

3.2.1 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).

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

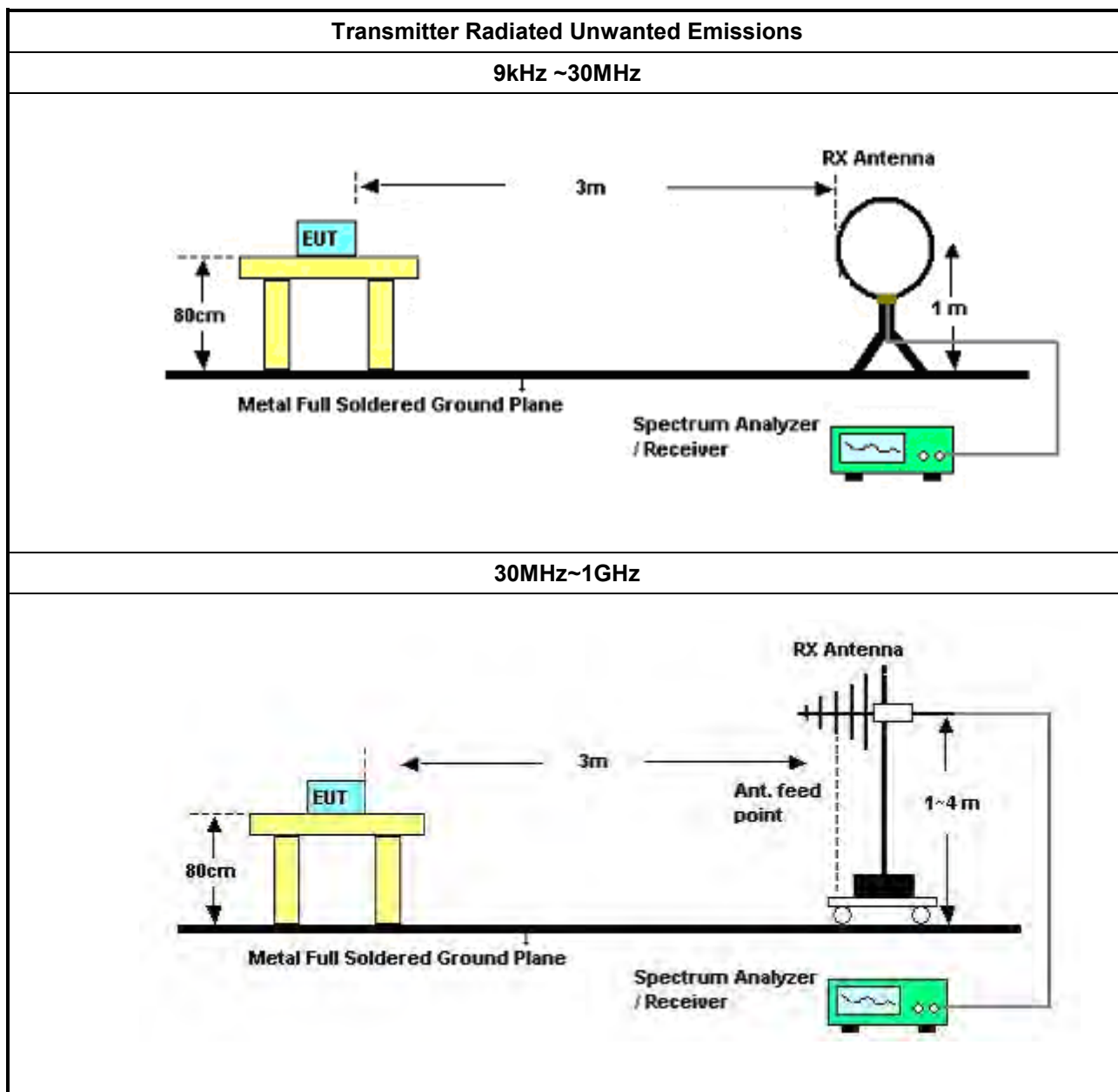
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
☒	Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
☒	Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

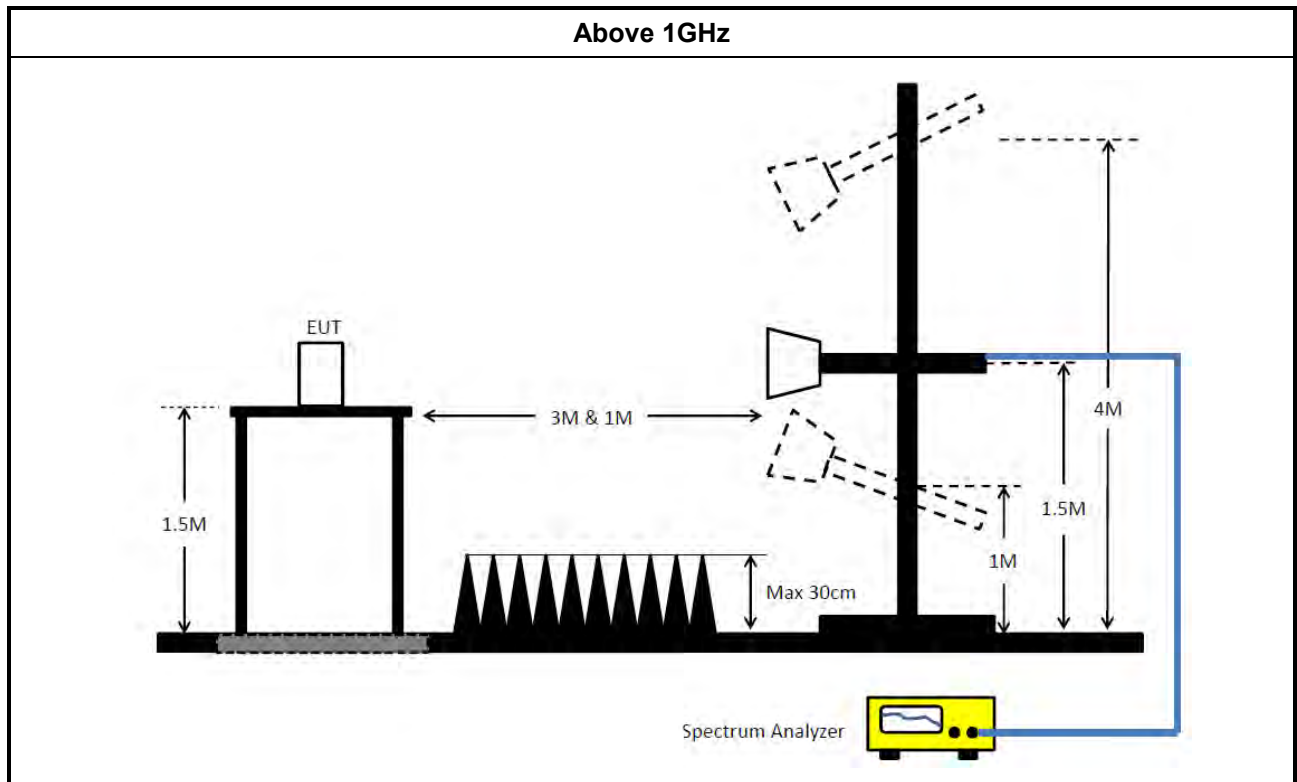
3.2.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.2.5 Test Setup





3.2.6 Transmitter Unwanted Emissions (Below 30MHz)

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

3.2.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix B

4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	19/Oct/2020	18/Oct/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2022
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	18/Mar/2020	17/Mar/2021

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	02/Aug/2020	01/Aug/2021
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	27/Feb/2020	26/Feb/2021
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~18GHz	23/Oct/2020	22/Oct/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	09/Jun/2020	08/Jun/2021
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+80 5192/4	1GHz~40GHz	08/Apr/2020	07/Apr/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_4TX	24.83	0.30409	28.29	0.67453



Average Power_Non-Beamforming_spot check

Appendix A.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.46	18.52	18.61	19.24	18.82	24.83	30.00	28.29	36.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	24.50	0.28184	30.55	1.13501



Average Power_ Beamforming_spot check

Appendix A.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.05	18.11	18.57	18.45	18.78	24.50	29.95	30.55	36.00

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



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	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	AV	5.144G	53.54	54.00	-0.46	3	Vertical	256	1.89	-

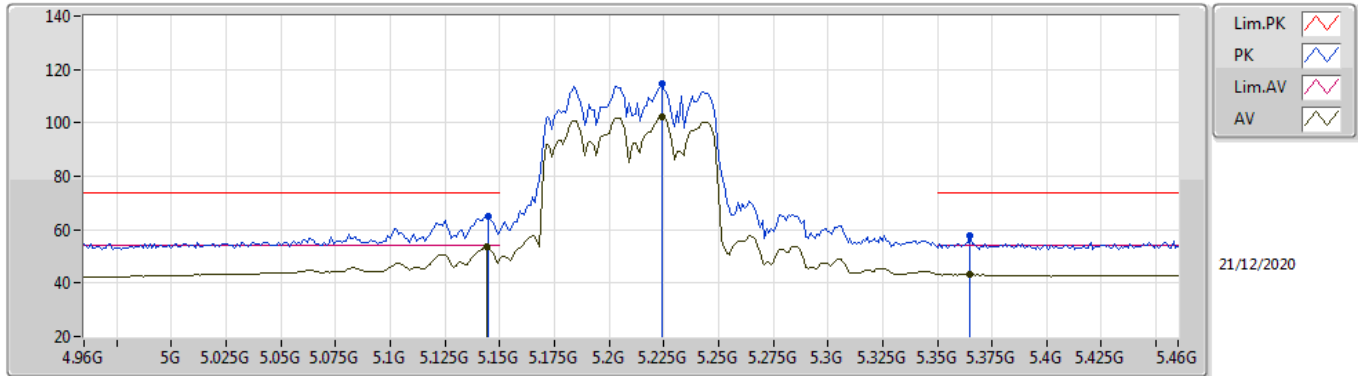


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.144G	53.54	54.00	-0.46	3	Vertical	256	1.89	-
5210MHz	Pass	AV	5.224G	102.31	Inf	-Inf	3	Vertical	256	1.89	-
5210MHz	Pass	AV	5.365G	43.27	54.00	-10.73	3	Vertical	256	1.89	-
5210MHz	Pass	PK	5.145G	64.93	74.00	-9.07	3	Vertical	256	1.89	-
5210MHz	Pass	PK	5.224G	114.53	Inf	-Inf	3	Vertical	256	1.89	-
5210MHz	Pass	PK	5.365G	57.59	74.00	-16.41	3	Vertical	256	1.89	-
5210MHz	Pass	AV	5.15G	53.33	54.00	-0.67	3	Horizontal	302	1.98	-
5210MHz	Pass	AV	5.231G	100.15	Inf	-Inf	3	Horizontal	302	1.98	-
5210MHz	Pass	AV	5.352G	43.49	54.00	-10.51	3	Horizontal	302	1.98	-
5210MHz	Pass	PK	5.149G	64.24	74.00	-9.76	3	Horizontal	302	1.98	-
5210MHz	Pass	PK	5.231G	111.13	Inf	-Inf	3	Horizontal	302	1.98	-
5210MHz	Pass	PK	5.351G	55.69	74.00	-18.31	3	Horizontal	302	1.98	-
5210MHz	Pass	AV	15.64492G	45.63	54.00	-8.37	3	Vertical	235	2.35	-
5210MHz	Pass	PK	10.41981G	56.81	68.20	-11.39	3	Vertical	265	1.36	-
5210MHz	Pass	PK	15.66231G	58.60	74.00	-15.40	3	Vertical	235	2.35	-
5210MHz	Pass	AV	15.64492G	45.62	54.00	-8.38	3	Horizontal	205	1.31	-
5210MHz	Pass	PK	10.41981G	60.62	68.20	-7.58	3	Horizontal	220	2.12	-
5210MHz	Pass	PK	15.66402G	58.87	74.00	-15.13	3	Horizontal	205	1.31	-

802.11ax HEW80_Nss1,(MCS0)_4TX

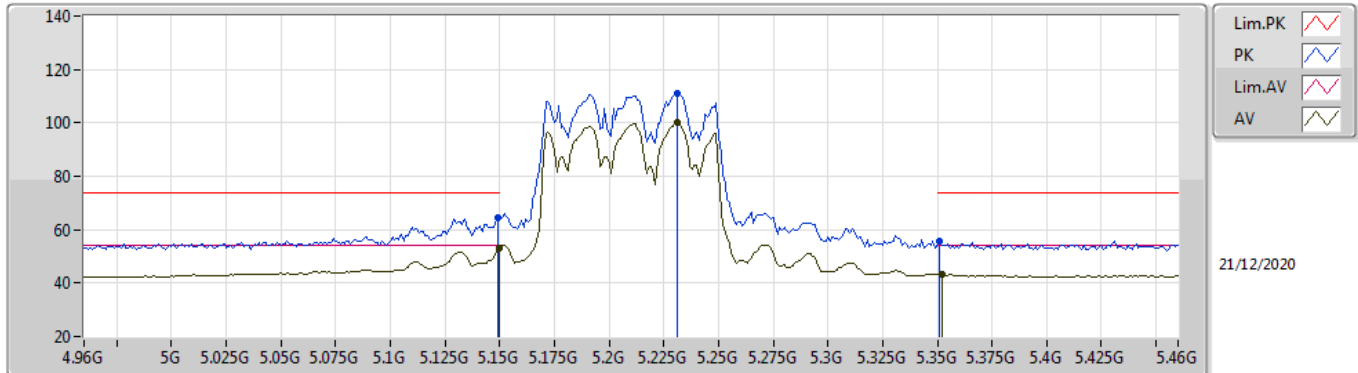
5210MHz_TX



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	5.144G	53.54	54.00	-0.46	5.99	3	Vertical	256	1.89	-	47.55	31.70	8.52	34.23
AV	5.224G	102.31	Inf	-Inf	5.69	3	Vertical	256	1.89	-	96.62	31.36	8.57	34.24
AV	5.365G	43.27	54.00	-10.73	5.44	3	Vertical	256	1.89	-	37.83	31.09	8.60	34.25
PK	5.145G	64.93	74.00	-9.07	5.99	3	Vertical	256	1.89	-	58.94	31.70	8.52	34.23
PK	5.224G	114.53	Inf	-Inf	5.69	3	Vertical	256	1.89	-	108.84	31.36	8.57	34.24
PK	5.365G	57.59	74.00	-16.41	5.44	3	Vertical	256	1.89	-	52.15	31.09	8.60	34.25

802.11ax HEW80_Nss1,(MCS0)_4TX

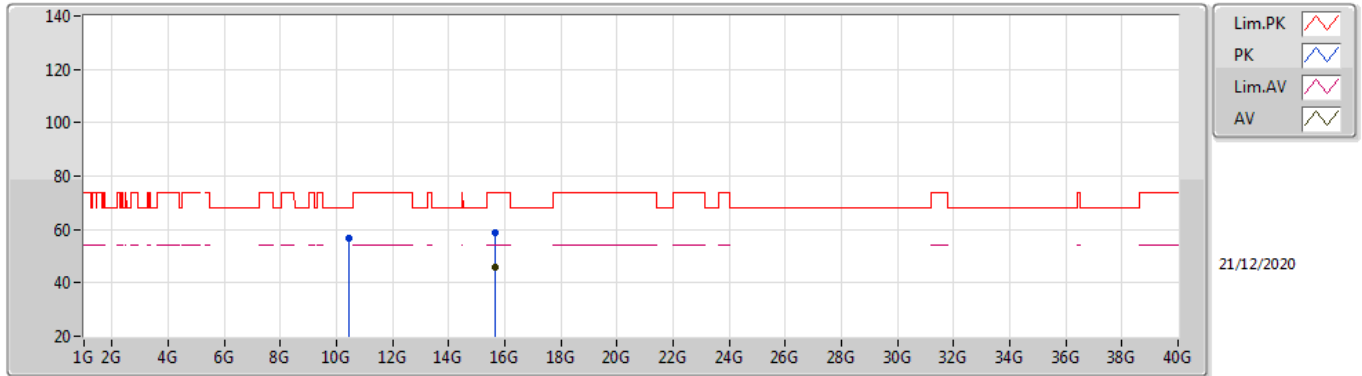
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	53.33	54.00	-0.67	5.99	3	Horizontal	302	1.98	-	47.34	31.70	8.52	34.23
AV	5.231G	100.15	Inf	-Inf	5.65	3	Horizontal	302	1.98	-	94.50	31.31	8.58	34.24
AV	5.352G	43.49	54.00	-10.51	5.36	3	Horizontal	302	1.98	-	38.13	31.01	8.60	34.25
PK	5.149G	64.24	74.00	-9.76	5.99	3	Horizontal	302	1.98	-	58.25	31.70	8.52	34.23
PK	5.231G	111.13	Inf	-Inf	5.65	3	Horizontal	302	1.98	-	105.48	31.31	8.58	34.24
PK	5.351G	55.69	74.00	-18.31	5.36	3	Horizontal	302	1.98	-	50.33	31.01	8.60	34.25

802.11ax HEW80_Nss1,(MCS0)_4TX

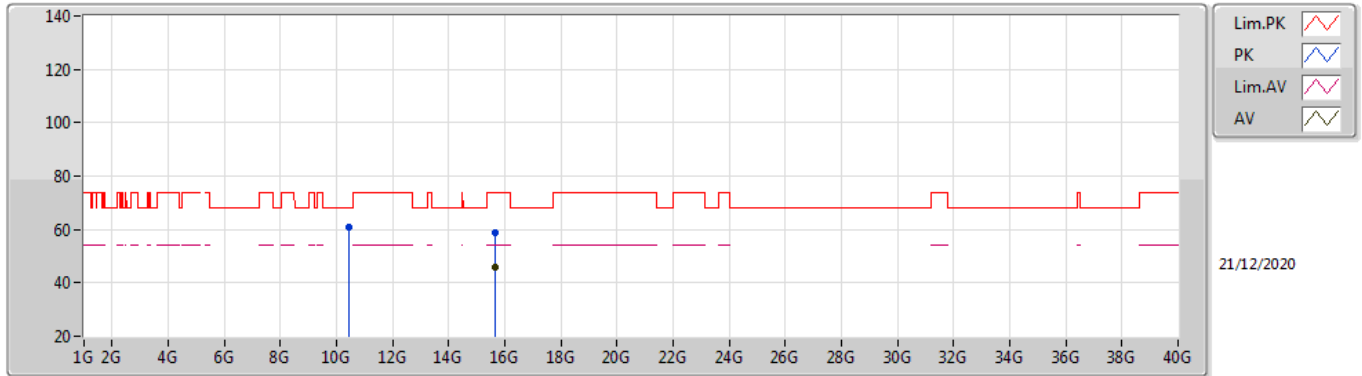
5210MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.64492G	45.63	54.00	-8.37	18.05	3	Vertical	235	2.35	-	27.58	37.89	14.63	34.47
PK	10.41981G	56.81	68.20	-11.39	17.12	3	Vertical	265	1.36	-	39.69	39.54	12.21	34.63
PK	15.66231G	58.60	74.00	-15.40	18.07	3	Vertical	235	2.35	-	40.53	37.92	14.64	34.49

802.11ax HEW80_Nss1,(MCS0)_4TX

5210MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.64504G	45.62	54.00	-8.38	18.05	3	Horizontal	205	1.31	-	27.57	37.89	14.63	34.47
PK	10.42011G	60.62	68.20	-7.58	17.12	3	Horizontal	220	2.12	-	43.50	39.54	12.21	34.63
PK	15.66402G	58.87	74.00	-15.13	18.08	3	Horizontal	205	1.31	-	40.79	37.93	14.64	34.49



Summary

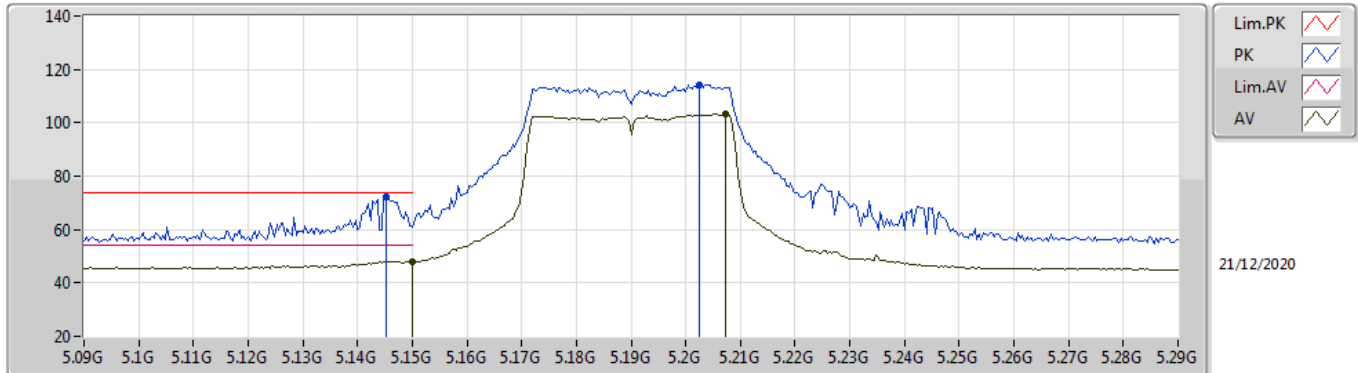
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	PK	5.1452G	72.47	74.00	-1.53	3	Vertical	214	1.98	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.15G	48.18	54.00	-5.82	3	Vertical	214	1.98	-
5190MHz	Pass	AV	5.2072G	103.27	Inf	-Inf	3	Vertical	214	1.98	-
5190MHz	Pass	PK	5.1452G	72.47	74.00	-1.53	3	Vertical	214	1.98	-
5190MHz	Pass	PK	5.2024G	114.23	Inf	-Inf	3	Vertical	214	1.98	-
5190MHz	Pass	AV	5.1492G	49.73	54.00	-4.27	3	Horizontal	295	1.66	-
5190MHz	Pass	AV	5.2012G	101.15	Inf	-Inf	3	Horizontal	295	1.66	-
5190MHz	Pass	PK	5.1496G	68.92	74.00	-5.08	3	Horizontal	295	1.66	-
5190MHz	Pass	PK	5.1868G	111.15	Inf	-Inf	3	Horizontal	295	1.66	-
5190MHz	Pass	PK	10.38005G	57.32	68.20	-10.88	3	Vertical	227	3.00	-
5190MHz	Pass	PK	10.3799G	61.56	68.20	-6.64	3	Horizontal	217	2.43	-

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

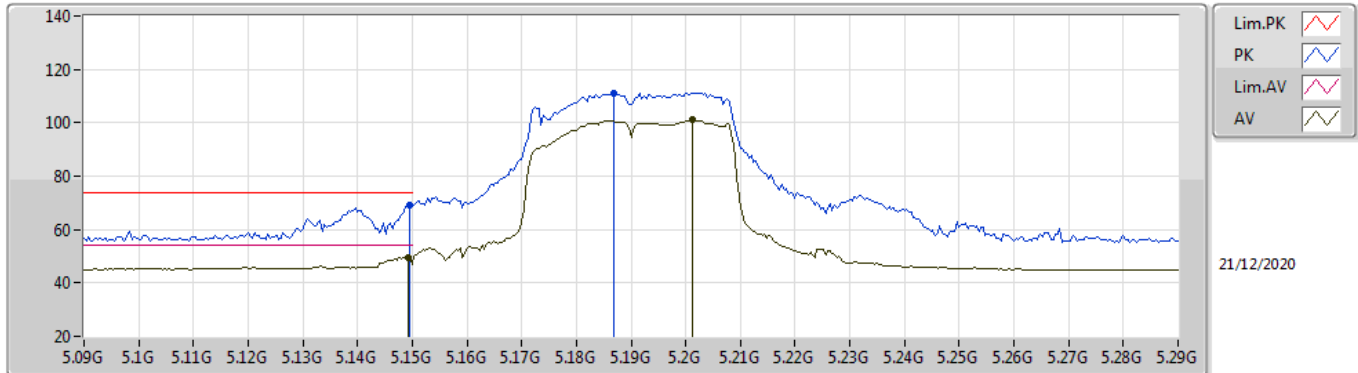
5190MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	48.18	54.00	-5.82	5.99	3	Vertical	214	1.98	-	42.19	31.70	8.52	34.23
AV	5.2072G	103.27	Inf	-Inf	5.79	3	Vertical	214	1.98	-	97.48	31.46	8.57	34.24
PK	5.1452G	72.47	74.00	-1.53	5.99	3	Vertical	214	1.98	-	66.48	31.70	8.52	34.23
PK	5.2024G	114.23	Inf	-Inf	5.82	3	Vertical	214	1.98	-	108.41	31.49	8.57	34.24

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

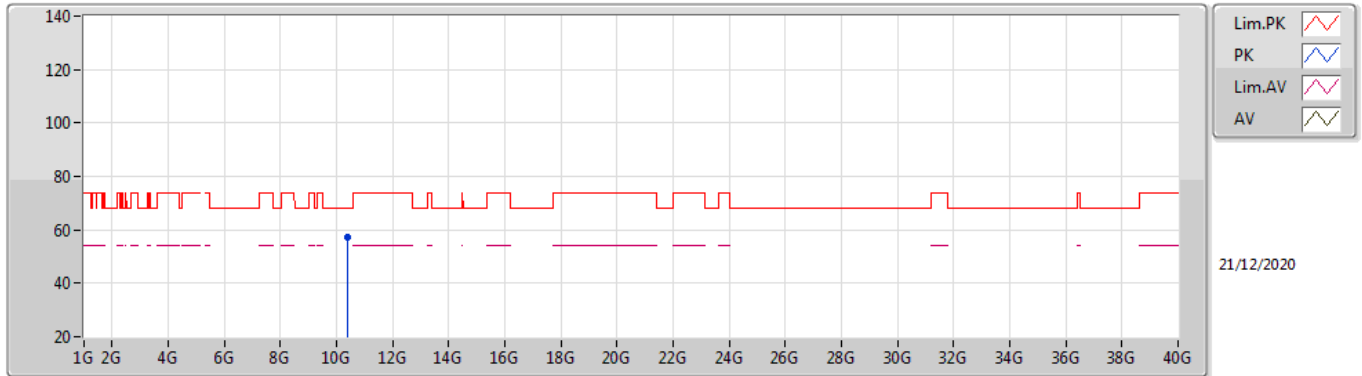
5190MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1492G	49.73	54.00	-4.27	5.99	3	Horizontal	295	1.66	-	43.74	31.70	8.52	34.23
AV	5.2012G	101.15	Inf	-Inf	5.82	3	Horizontal	295	1.66	-	95.33	31.49	8.57	34.24
PK	5.1496G	68.92	74.00	-5.08	5.99	3	Horizontal	295	1.66	-	62.93	31.70	8.52	34.23
PK	5.1868G	111.15	Inf	-Inf	5.88	3	Horizontal	295	1.66	-	105.27	31.55	8.56	34.23

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

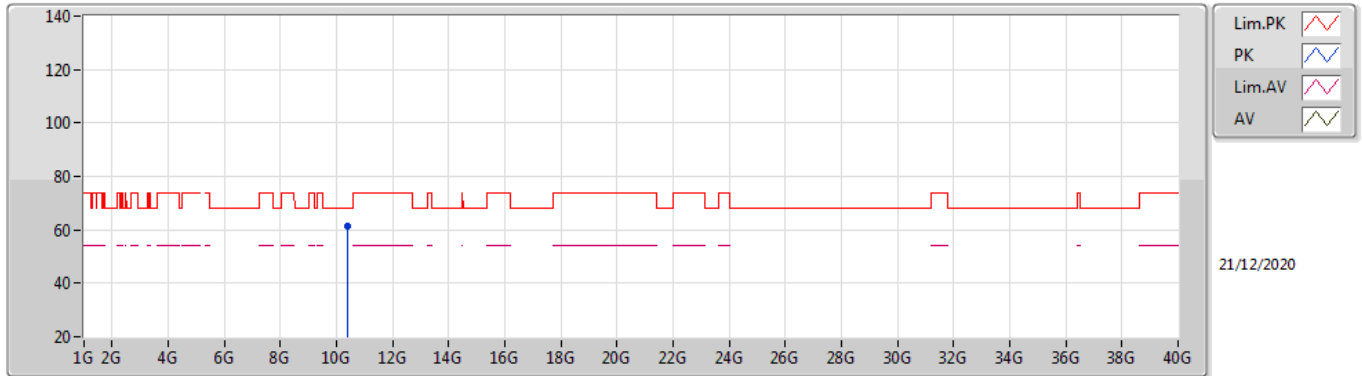
5190MHz_TX



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	10.38005G	57.32	68.20	-10.88	16.97	3	Vertical	227	3.00	-	40.35	39.44	12.19	34.66

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5190MHz_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	10.3799G	61.56	68.20	-6.64	16.97	3	Horizontal	217	2.43	-	44.59	39.44	12.19	34.66

APPENDIX D. ORIGINAL REPORT - FR091014AN

FCC Test Report

FCC ID : H8NAP5660W
Equipment : WiFi Mesh
Brand Name : ASKEY
Model Name : AP5660W-RoHS
Applicant : ASKEY COMPUTER CORPORATION
10F, No. 119, Jiankang Road, Zhonghe Dist.,
New Taipei City, Taiwan
Manufacturer : ASKEY COMPUTER CORPORATION
10F, No. 119, Jiankang Road, Zhonghe Dist.,
New Taipei City, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Aug. 21, 2020, and testing was started from Aug. 21, 2020 and completed on Dec. 21, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: 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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History of this test report

TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-D1 Ver2.6
FCC ID: H8NAP5660W

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: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax(HEW20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax(HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax(HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	2TX

Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2TX



Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	2TX
5.15-5.25GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.15-5.25GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1~6	Askey	AP5660W	PCB antenna	I-PEX

Ant.	Peak Gain (dBi)				
	2.4G			5G	
	2400MHz	2450MHz	2500MHz	U-NII-1	U-NII-3
1	4.13	4.05	3.94	-	4.10
2	4.13	4.05	3.94	-	4.10
3	-	-	-	3.46	-
4	-	-	-	3.46	-
5	-	-	-	3.46	-
6	-	-	-	3.46	-

Ant.	Directional Gain (dBi)				
	2.4G			5G	
	2400MHz	2450MHz	2500MHz	U-NII-1	U-NII-3
1	4.52	4.74	3.37	-	5.56
2	4.52	4.74	3.37	-	5.56
3	-	-	-	6.05	-
4	-	-	-	6.05	-
5	-	-	-	6.05	-
6	-	-	-	6.05	-

Note 1: The EUT has six antennas.

For 2.4GHz function:

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

Only Ant. 1~2 can be used as transmitting/receiving antenna.

For 5GHz function:.

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

Only Ant. 1~2 can be used as transmitting/receiving antenna.

For IEEE 802.11 a/n/ac/ax mode (4TX/4RX)

Only Ant. 3~6 can be used as transmitting/receiving antenna.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter		
EUT Function	☐ Outdoor AP	☒ Indoor AP(Mesh)	
	☐ Fixed P2P AP	☐ Outdoor/Indoor Client	
Beamforming Function	☒ With beamforming	☐ Without beamforming	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		
☐	Other:		

1.1.4 Mode Test Duty Cycle

Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.951	0.22	1.977m	1k
802.11ac VHT20_Nss1,(MCS0)_4TX	0.951	0.22	5.429m	300
802.11ac VHT40_Nss1,(MCS0)_4TX	0.943	0.25	5.428m	300
802.11ac VHT80_Nss1,(MCS0)_4TX	0.883	0.54	5.429m	300
802.11ax HEW20_Nss1,(MCS0)_4TX	0.945	0.25	5.445m	300
802.11ax HEW40_Nss1,(MCS0)_4TX	0.949	0.23	5.445m	300
802.11ax HEW80_Nss1,(MCS0)_4TX	0.949	0.23	5.445m	300
802.11a_Nss1,(6Mbps)_2TX	0.951	0.22	1.977m	1k
802.11ac VHT20_Nss1,(MCS0)_2TX	0.951	0.22	5.429m	300
802.11ac VHT40_Nss1,(MCS0)_2TX	0.943	0.25	5.428m	300
802.11ac VHT80_Nss1,(MCS0)_2TX	0.883	0.54	5.429m	300
802.11ax HEW20_Nss1,(MCS0)_2TX	0.945	0.25	5.445m	300
802.11ax HEW40_Nss1,(MCS0)_2TX	0.949	0.23	5.445m	300
802.11ax HEW80_Nss1,(MCS0)_2TX	0.949	0.23	5.445m	300

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

Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	0.931	0.31	1.758m	1k
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	0.92	0.36	1.693m	1k
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	0.929	0.32	1.948m	1k
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	0.953	0.21	1.96m	1k
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.895	0.48	1.933m	1k
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	0.56	2.52	535.313u	3k
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	0.92	0.36	1.758m	1k
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	0.913	0.4	1.693m	1k
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	0.918	0.37	1.948m	1k
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.916	0.38	1.979m	1k
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.914	0.39	1.933m	1k
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.731	1.36	1.048m	1k

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

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

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

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			
☐	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	24.6~ 24.9°C / 54~60%	13/Oct/2020
RF Conducted	TH06-HY	Alan Chien	22.8~25.1°C / 56~67%	14/Dec/2020~ 21/Dec/2020
Radiated (Below 1GHz)	03CH02-HY	Daniel Lin	20.8~26.1°C / 53~64%	21/Aug/2020, 12/Oct/2020
Radiated (Above 1GHz)			20.4~27.3°C / 54~64%	10/Dec/2020~ 18/Dec/2020

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

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

2.2 Test Channel Mode

Non-Beamforming

Test Software Version	QSPR
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	23.5
5200MHz	24.5
5240MHz	24.5
802.11a_Nss1,(6Mbps)_2TX	-
5745MHz	28.5
5785MHz	29
5825MHz	28
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	22.5
5200MHz	24.5
5240MHz	24
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5745MHz	28.5
5785MHz	29
5825MHz	28
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	20.5
5230MHz	23.5
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5755MHz	25.5
5795MHz	28
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	19

Mode	Power Setting
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5775MHz	22.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	22.5
5200MHz	24.5
5240MHz	24
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5745MHz	28.5
5785MHz	29
5825MHz	28
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	20.5
5230MHz	23.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5755MHz	25.5
5795MHz	28
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	19
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5775MHz	22.5

Beamforming

Test Software Version	DOS 6.1
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Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5180MHz	26.5
5200MHz	27.5
5240MHz	25.5
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5745MHz	26.5
5785MHz	26.5
5825MHz	26.5
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5190MHz	23.5



Mode	Power Setting
5230MHz	28.5
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5755MHz	24
5795MHz	24
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5210MHz	23.5
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5775MHz	24.5
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	26.5
5200MHz	27.5
5240MHz	25.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5745MHz	26.5
5785MHz	26.5
5825MHz	26.5
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	23.5
5230MHz	28.5
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5755MHz	24
5795MHz	24
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	23.5
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5775MHz	24.5

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	AC Adapter 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	Adapter mode
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	Y Plane
	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz + WLAN 5GHz Band 4
Refer to Sporton Test Report No.: FA091014 for Co-location RF Exposure Evaluation and Appendix F for Radiated Emission Co-location.	

2.4 Accessories

Accessories				
AC Adapter 1 (US Plug)	Brand Name	FLYPOWER	Model Name	PS24L120K2000UD
	Power Rating	I/P: 100-240 Vac, 0.8 A, O/P: 12.0 Vdc, 2.0A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		
AC Adapter 2 (US Plug)	Brand Name	APD	Model Name	WB-24J12FU
	Power Rating	I/P: 100-240 Vac, 0.7A, O/P: 12 Vdc, 2.0A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		
RJ45 Cable	Signal Line	1.8 meter, non-shielded cable, w/o ferrite core		

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

2.5 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook (Remote)	Dell	PP13S	-	-
2	Adapter for NB (Remote)	Dell	AA90PM111	-	-
3	AC Power Cable (Remote)	Power Sync	TPCMRN0018	-	-
4	Client (Remote)	-	-	-	-
5	RJ-45 Cable (Remote)	Power sync	CAT-6E-10	-	-

Note: Support equipment No.4 was provided by customer.

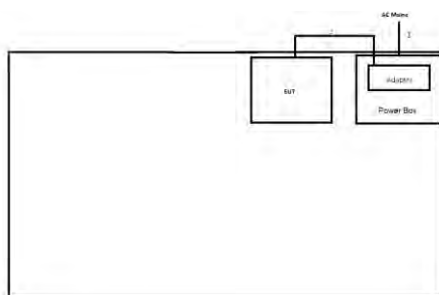
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power Sync	CAT-6E-10	-	-
2	Notebook (Remote)	Dell	PP13S	-	-
3	Adapter for NB (Remote)	Dell	AA90PM111	-	-
4	RJ45 Cable (Remote)	Power Sync	CAT-6E-01	-	-
5	Adapter (Remote)	Sunny	SYS1620-3012-W2	-	-
6	Client (Remote)	-	-	-	-

Note: Support equipment No.5 & 6 was provided by customer.

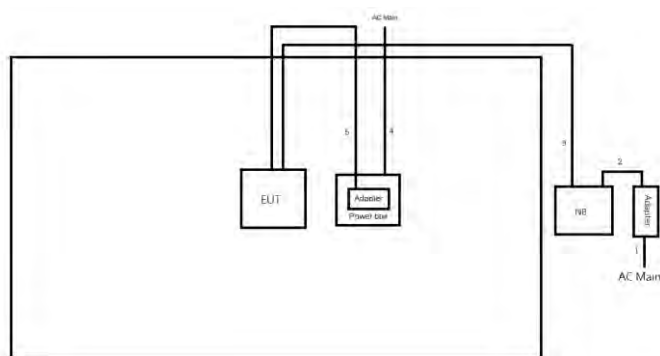
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	RJ45 Cable	No	10.0	-
4	AC Power Cable	No	1.8	-
5	DC Power Cable	No	1.5	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

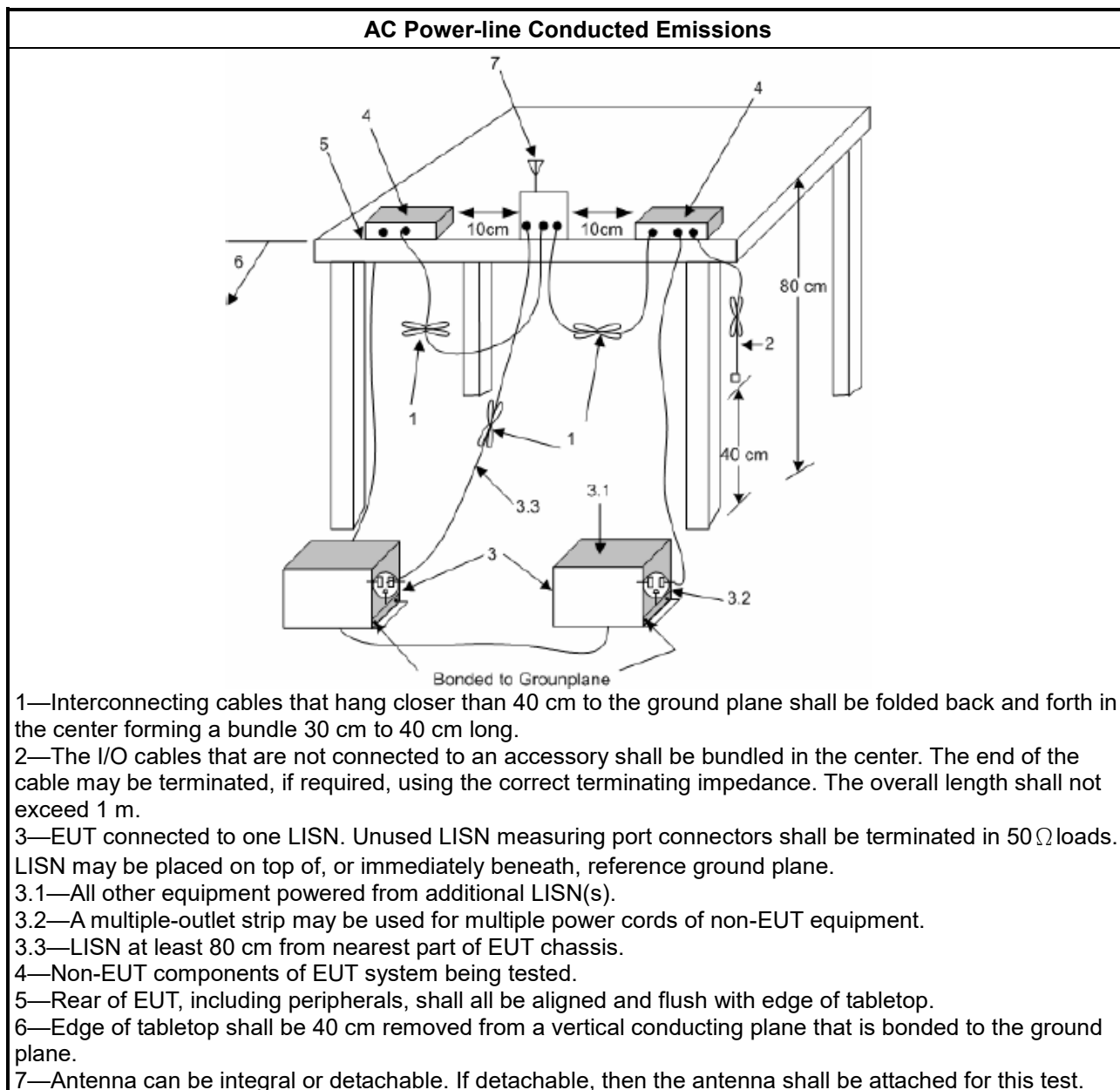
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☐	For the 5.25-5.35 GHz band, N/A
☐	For the 5.47-5.725 GHz band, N/A
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

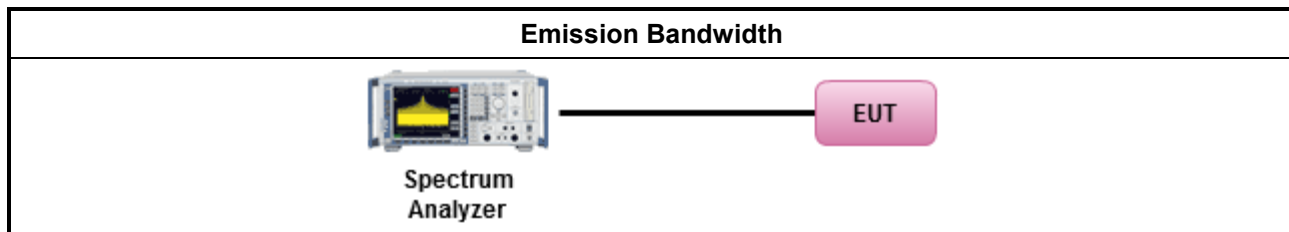
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 6.7 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	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

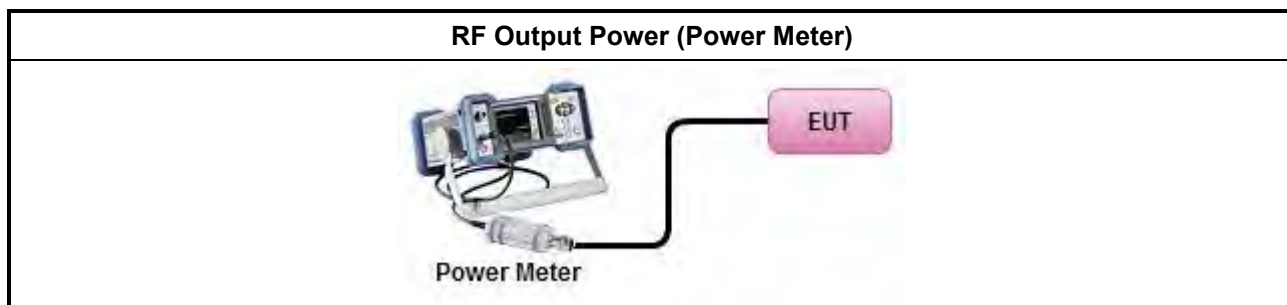
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	Duty cycle $\geq 98\%$
☐	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
☐	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as KDB 789033, clause E Method PM (using an RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

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	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☐ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

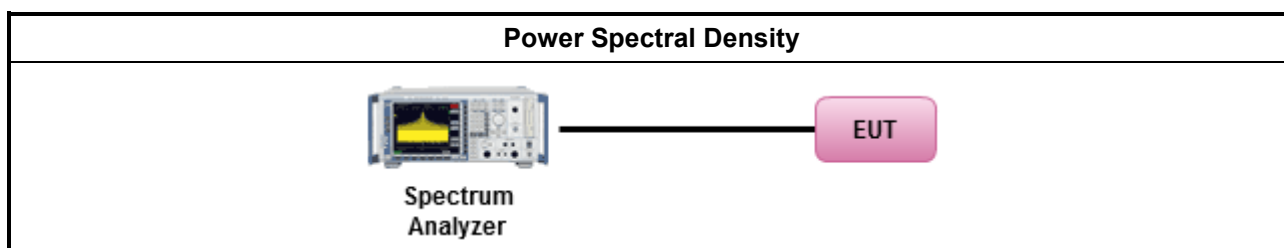
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐ Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
Duty cycle ≥ 98%	
☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
Duty cycle < 98%	
☒ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☐ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (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

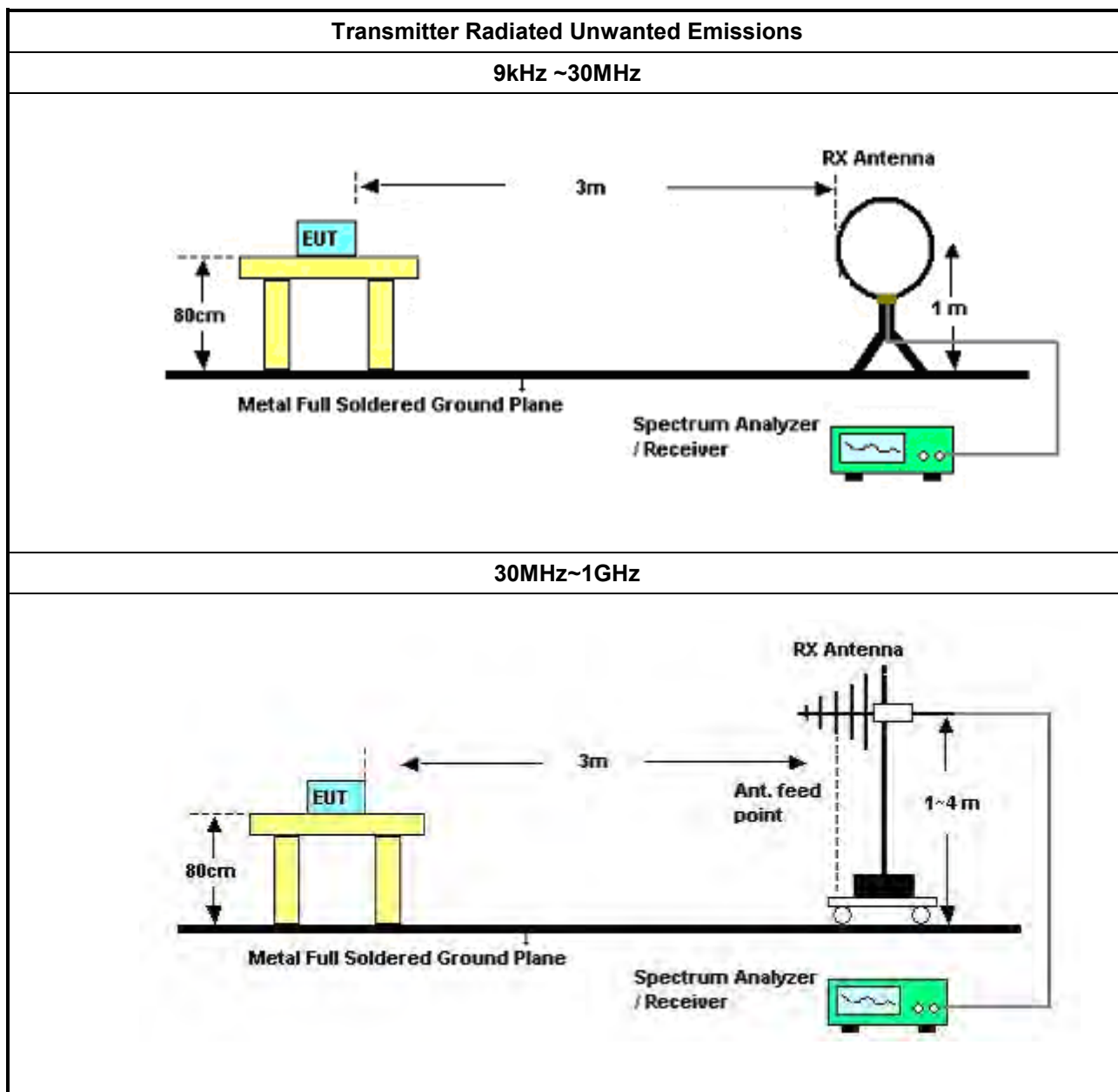
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
☒	Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
☒	Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

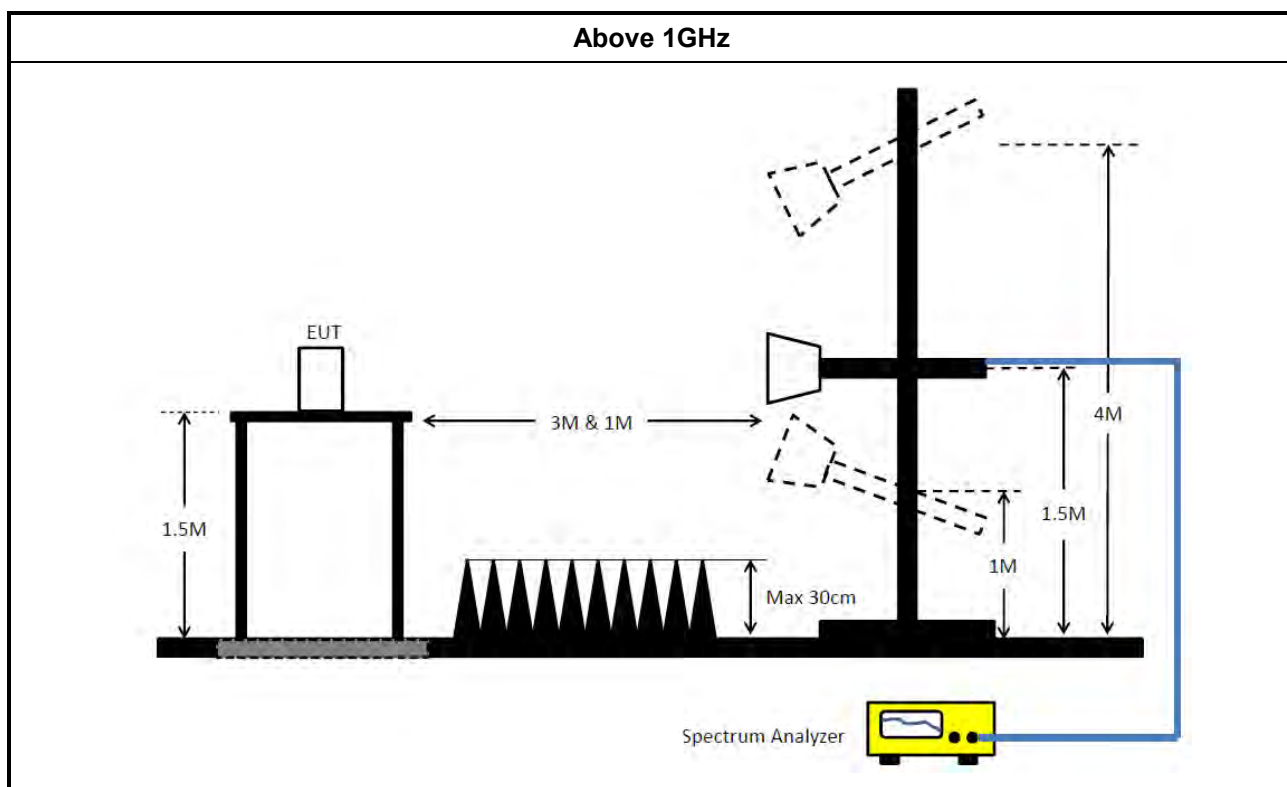
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.5 Test Setup





3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.7 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
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	05/Nov/2019	04/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	31/Aug/2020	30/Aug/2021
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	19/Oct/2020	18/Oct/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2022
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	18/Mar/2020	17/Mar/2021

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	04/Aug/2020	03/Aug/2021
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	02/Aug/2020	01/Aug/2021
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	27/Feb/2020	26/Feb/2021
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	30/Jun/2020	29/Jun/2021
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~18GHz	23/Oct/2020	22/Oct/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	28/Feb/2020	27/Feb/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	09/Jun/2020	08/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz~30MHz	20/Jun/2020	19/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB017	30MHz~1GHz	25/Mar/2020	24/Mar/2021
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+80 5192/4	1GHz~40GHz	08/Apr/2020	07/Apr/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2020	15/Mar/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021



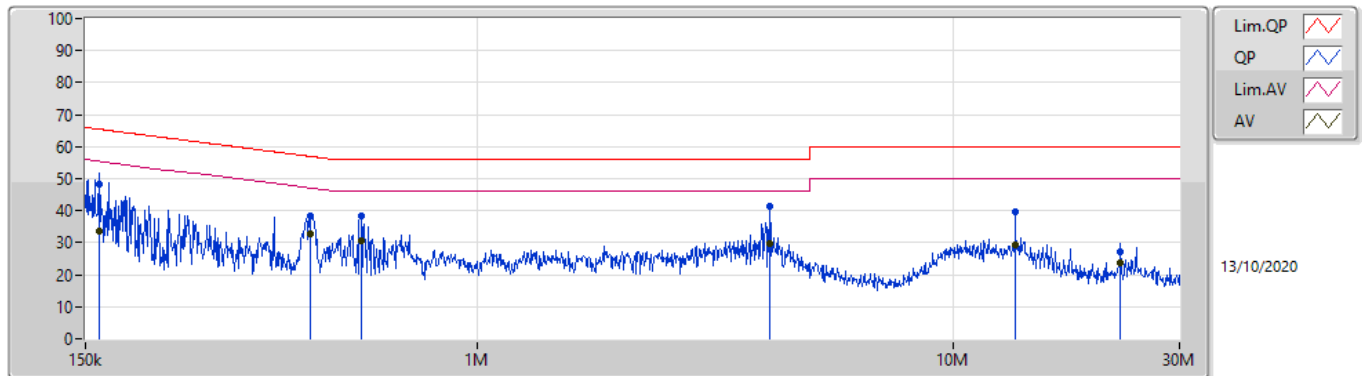
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	571.327k	32.84	46.00	-13.16	Neutral

Mode Configure

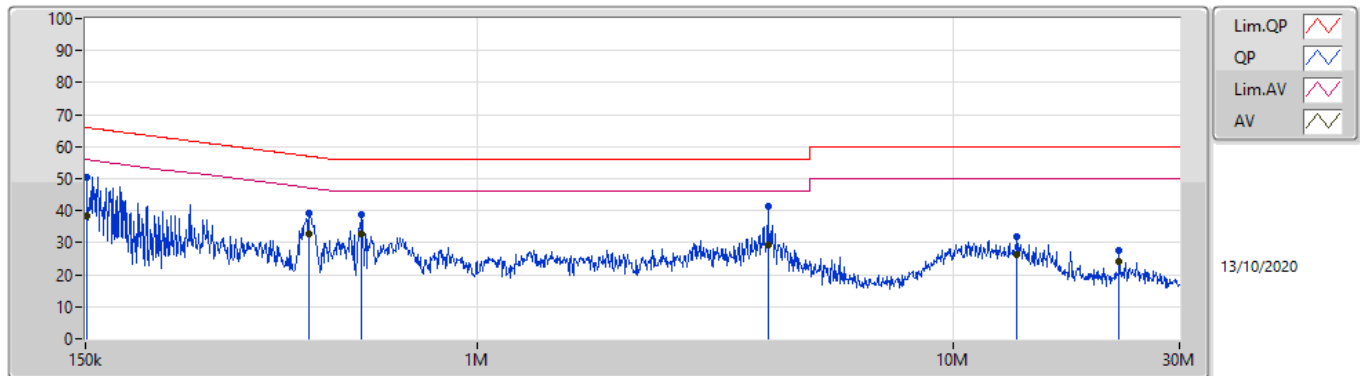
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	159.893k	48.27	65.46	-17.19	Line	-
Mode 1	Pass	AV	159.893k	33.79	55.46	-21.67	Line	-
Mode 1	Pass	QP	444.284k	38.55	56.98	-18.43	Line	-
Mode 1	Pass	AV	444.284k	32.76	46.98	-14.22	Line	"Worst"
Mode 1	Pass	QP	571.327k	38.41	56.00	-17.59	Line	-
Mode 1	Pass	AV	571.327k	30.73	46.00	-15.27	Line	-
Mode 1	Pass	QP	4.122M	41.47	56.00	-14.53	Line	-
Mode 1	Pass	AV	4.122M	29.84	46.00	-16.16	Line	-
Mode 1	Pass	QP	13.543M	39.58	60.00	-20.42	Line	-
Mode 1	Pass	AV	13.543M	29.27	50.00	-20.73	Line	-
Mode 1	Pass	QP	22.575M	27.09	60.00	-32.91	Line	-
Mode 1	Pass	AV	22.575M	23.60	50.00	-26.40	Line	-
Mode 1	Pass	QP	150.6k	50.56	65.96	-15.40	Neutral	-
Mode 1	Pass	AV	150.6k	38.17	55.96	-17.79	Neutral	-
Mode 1	Pass	QP	442.514k	39.10	57.01	-17.91	Neutral	-
Mode 1	Pass	AV	442.514k	32.80	47.01	-14.21	Neutral	-
Mode 1	Pass	QP	571.327k	38.80	56.00	-17.20	Neutral	-
Mode 1	Pass	AV	571.327k	32.84	46.00	-13.16	Neutral	"Worst"
Mode 1	Pass	QP	4.089M	41.51	56.00	-14.49	Neutral	-
Mode 1	Pass	AV	4.089M	29.36	46.00	-16.64	Neutral	-
Mode 1	Pass	QP	13.652M	31.79	60.00	-28.21	Neutral	-
Mode 1	Pass	AV	13.652M	26.17	50.00	-23.83	Neutral	-
Mode 1	Pass	QP	22.396M	27.57	60.00	-32.43	Neutral	-
Mode 1	Pass	AV	22.396M	24.10	50.00	-25.90	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	159.893k	48.27	65.46	-17.19	19.57	Line	-	28.70	9.66	0.01	9.90			
AV	159.893k	33.79	55.46	-21.67	19.57	Line	-	14.22	9.66	0.01	9.90			
QP	444.284k	38.55	56.98	-18.43	19.55	Line	-	19.00	9.64	0.02	9.89			
AV	444.284k	32.76	46.98	-14.22	19.55	Line	"Worst"	13.21	9.64	0.02	9.89			
QP	571.327k	38.41	56.00	-17.59	19.53	Line	-	18.88	9.64	0.03	9.86			
AV	571.327k	30.73	46.00	-15.27	19.53	Line	-	11.20	9.64	0.03	9.86			
QP	4.122M	41.47	56.00	-14.53	19.68	Line	-	21.79	9.66	0.12	9.90			
AV	4.122M	29.84	46.00	-16.16	19.68	Line	-	10.16	9.66	0.12	9.90			
QP	13.543M	39.58	60.00	-20.42	19.81	Line	-	19.77	9.67	0.24	9.90			
AV	13.543M	29.27	50.00	-20.73	19.81	Line	-	9.46	9.67	0.24	9.90			
QP	22.575M	27.09	60.00	-32.91	19.82	Line	-	7.27	9.60	0.32	9.90			
AV	22.575M	23.60	50.00	-26.40	19.82	Line	-	3.78	9.60	0.32	9.90			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150.6k	50.56	65.96	-15.40	19.56	Neutral	-	31.00	9.65	0.01	9.90			
AV	150.6k	38.17	55.96	-17.79	19.56	Neutral	-	18.61	9.65	0.01	9.90			
QP	442.514k	39.10	57.01	-17.91	19.54	Neutral	-	19.56	9.63	0.02	9.89			
AV	442.514k	32.80	47.01	-14.21	19.54	Neutral	-	13.26	9.63	0.02	9.89			
QP	571.327k	38.80	56.00	-17.20	19.52	Neutral	-	19.28	9.63	0.03	9.86			
AV	571.327k	32.84	46.00	-13.16	19.52	Neutral	"Worst"	13.32	9.63	0.03	9.86			
QP	4.089M	41.51	56.00	-14.49	19.68	Neutral	-	21.83	9.66	0.12	9.90			
AV	4.089M	29.36	46.00	-16.64	19.68	Neutral	-	9.68	9.66	0.12	9.90			
QP	13.652M	31.79	60.00	-28.21	19.85	Neutral	-	11.94	9.71	0.24	9.90			
AV	13.652M	26.17	50.00	-23.83	19.85	Neutral	-	6.32	9.71	0.24	9.90			
QP	22.396M	27.57	60.00	-32.43	19.92	Neutral	-	7.65	9.70	0.32	9.90			
AV	22.396M	24.10	50.00	-25.90	19.92	Neutral	-	4.18	9.70	0.32	9.90			

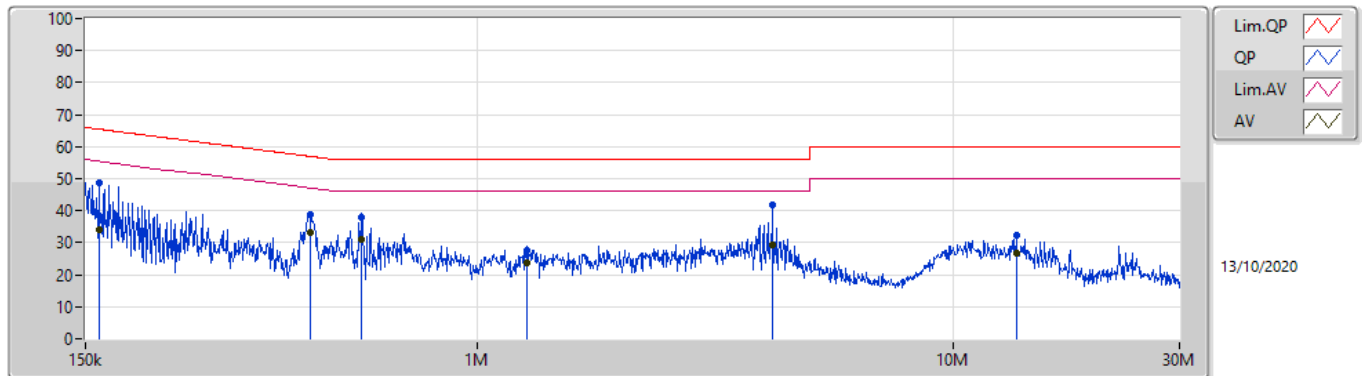
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	446.062k	33.11	46.96	-13.85	Line

Mode Configure

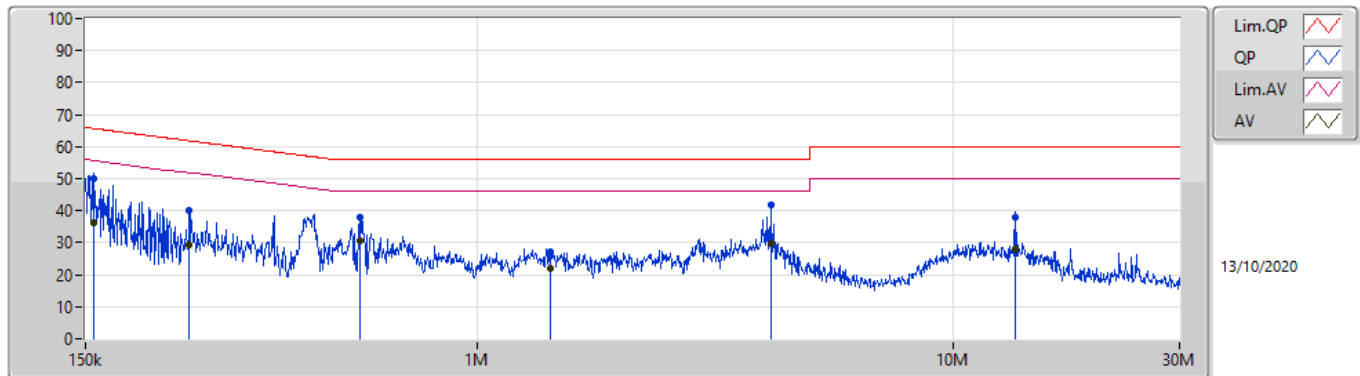
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	159.893k	48.53	65.46	-16.93	Line	-
Mode 1	Pass	AV	159.893k	33.90	55.46	-21.56	Line	-
Mode 1	Pass	QP	446.062k	38.88	56.96	-18.08	Line	-
Mode 1	Pass	AV	446.062k	33.11	46.96	-13.85	Line	"Worst"
Mode 1	Pass	QP	571.327k	38.09	56.00	-17.91	Line	-
Mode 1	Pass	AV	571.327k	31.09	46.00	-14.91	Line	-
Mode 1	Pass	QP	1.269M	27.73	56.00	-28.27	Line	-
Mode 1	Pass	AV	1.269M	23.53	46.00	-22.47	Line	-
Mode 1	Pass	QP	4.171M	41.61	56.00	-14.39	Line	-
Mode 1	Pass	AV	4.171M	29.22	46.00	-16.78	Line	-
Mode 1	Pass	QP	13.597M	32.52	60.00	-27.48	Line	-
Mode 1	Pass	AV	13.597M	26.61	50.00	-23.39	Line	-
Mode 1	Pass	QP	156.109k	49.84	65.67	-15.83	Neutral	-
Mode 1	Pass	AV	156.109k	36.39	55.67	-19.28	Neutral	-
Mode 1	Pass	QP	248.05k	40.14	61.81	-21.67	Neutral	-
Mode 1	Pass	AV	248.05k	29.34	51.81	-22.47	Neutral	-
Mode 1	Pass	QP	566.784k	38.09	56.00	-17.91	Neutral	-
Mode 1	Pass	AV	566.784k	30.48	46.00	-15.52	Neutral	-
Mode 1	Pass	QP	1.425M	27.22	56.00	-28.78	Neutral	-
Mode 1	Pass	AV	1.425M	22.02	46.00	-23.98	Neutral	-
Mode 1	Pass	QP	4.138M	41.97	56.00	-14.03	Neutral	"Worst"
Mode 1	Pass	AV	4.138M	29.55	46.00	-16.45	Neutral	-
Mode 1	Pass	QP	13.543M	37.72	60.00	-22.28	Neutral	-
Mode 1	Pass	AV	13.543M	28.18	50.00	-21.82	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	159.893k	48.53	65.46	-16.93	19.57	Line	-	28.96	9.66	0.01	9.90			
AV	159.893k	33.90	55.46	-21.56	19.57	Line	-	14.33	9.66	0.01	9.90			
QP	446.062k	38.88	56.96	-18.08	19.55	Line	-	19.33	9.64	0.02	9.89			
AV	446.062k	33.11	46.96	-13.85	19.55	Line	"Worst"	13.56	9.64	0.02	9.89			
QP	571.327k	38.09	56.00	-17.91	19.53	Line	-	18.56	9.64	0.03	9.86			
AV	571.327k	31.09	46.00	-14.91	19.53	Line	-	11.56	9.64	0.03	9.86			
QP	1.269M	27.73	56.00	-28.27	19.50	Line	-	8.23	9.64	0.06	9.80			
AV	1.269M	23.53	46.00	-22.47	19.50	Line	-	4.03	9.64	0.06	9.80			
QP	4.171M	41.61	56.00	-14.39	19.68	Line	-	21.93	9.66	0.12	9.90			
AV	4.171M	29.22	46.00	-16.78	19.68	Line	-	9.54	9.66	0.12	9.90			
QP	13.597M	32.52	60.00	-27.48	19.81	Line	-	12.71	9.67	0.24	9.90			
AV	13.597M	26.61	50.00	-23.39	19.81	Line	-	6.80	9.67	0.24	9.90			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.109k	49.84	65.67	-15.83	19.56	Neutral	-	30.28	9.65	0.01	9.90			
AV	156.109k	36.39	55.67	-19.28	19.56	Neutral	-	16.83	9.65	0.01	9.90			
QP	248.05k	40.14	61.81	-21.67	19.55	Neutral	-	20.59	9.64	0.01	9.90			
AV	248.05k	29.34	51.81	-22.47	19.55	Neutral	-	9.79	9.64	0.01	9.90			
QP	566.784k	38.09	56.00	-17.91	19.52	Neutral	-	18.57	9.63	0.03	9.86			
AV	566.784k	30.48	46.00	-15.52	19.52	Neutral	-	10.96	9.63	0.03	9.86			
QP	1.425M	27.22	56.00	-28.78	19.51	Neutral	-	7.71	9.64	0.07	9.80			
AV	1.425M	22.02	46.00	-23.98	19.51	Neutral	-	2.51	9.64	0.07	9.80			
QP	4.138M	41.97	56.00	-14.03	19.68	Neutral	"Worst"	22.29	9.66	0.12	9.90			
AV	4.138M	29.55	46.00	-16.45	19.68	Neutral	-	9.87	9.66	0.12	9.90			
QP	13.543M	37.72	60.00	-22.28	19.85	Neutral	-	17.87	9.71	0.24	9.90			
AV	13.543M	28.18	50.00	-21.82	19.85	Neutral	-	8.33	9.71	0.24	9.90			

**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)_4TX	23.01M	16.552M	16M6D1D	19.53M	16.402M
802.11ac VHT20_Nss1,(MCS0)_4TX	23.43M	17.661M	17M7D1D	20.46M	17.571M
802.11ac VHT40_Nss1,(MCS0)_4TX	41.28M	36.462M	36M5D1D	40.02M	36.282M
802.11ac VHT80_Nss1,(MCS0)_4TX	82.2M	76.042M	76M0D1D	81.12M	75.562M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.75M	18.951M	19M0D1D	20.82M	18.861M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.22M	38.081M	38M1D1D	40.74M	37.841M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.92M	77.601M	77M6D1D	81.72M	76.882M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.29M	26.297M	26M3D1D	15.12M	18.441M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.55M	25.337M	25M3D1D	14.61M	18.171M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.36M	43.898M	43M9D1D	34.74M	36.282M
802.11ac VHT80_Nss1,(MCS0)_2TX	74.88M	75.802M	75M8D1D	74.64M	75.442M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.87M	25.607M	25M6D1D	18.27M	19.28M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.74M	45.157M	45M2D1D	35.76M	37.841M
802.11ax HEW80_Nss1,(MCS0)_2TX	74.4M	77.481M	77M5D1D	73.92M	77.001M

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

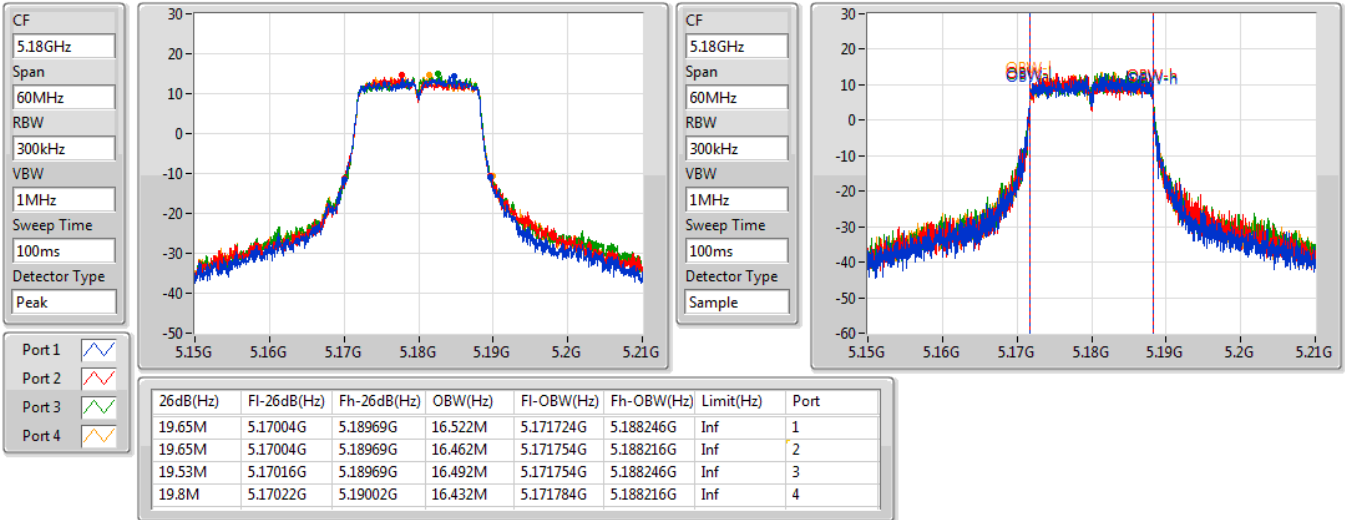
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.65M	16.522M	19.65M	16.462M	19.53M	16.492M	19.8M	16.432M
5200MHz	Pass	Inf	20.19M	16.492M	20.16M	16.402M	20.7M	16.552M	20.73M	16.522M
5240MHz	Pass	Inf	20.46M	16.522M	19.92M	16.432M	23.01M	16.552M	20.73M	16.492M
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	15.63M	20.87M	16.29M	25.337M				
5785MHz	Pass	500k	15.33M	18.441M	15.39M	22.249M				
5825MHz	Pass	500k	15.12M	19.97M	15.63M	26.297M				
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.55M	17.571M	20.67M	17.631M	20.46M	17.571M	20.73M	17.631M
5200MHz	Pass	Inf	20.97M	17.601M	20.82M	17.661M	21.27M	17.631M	20.88M	17.661M
5240MHz	Pass	Inf	20.85M	17.661M	20.7M	17.631M	23.43M	17.601M	20.91M	17.661M
802.11ac_VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	15.96M	19.43M	17.16M	24.558M				
5785MHz	Pass	500k	14.61M	18.171M	17.55M	20.75M				
5825MHz	Pass	500k	17.16M	19.04M	17.52M	25.337M				
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.38M	36.282M	40.02M	36.342M	40.38M	36.342M	40.2M	36.342M
5230MHz	Pass	Inf	40.44M	36.282M	40.74M	36.342M	41.28M	36.462M	40.5M	36.342M
802.11ac_VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	35.04M	36.282M	36.06M	36.462M				
5795MHz	Pass	500k	34.74M	37.121M	36.36M	43.898M				
802.11ac_VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	75.802M	81.12M	75.562M	81.84M	76.042M	81.48M	75.682M
802.11ac_VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	74.88M	75.442M	74.64M	75.802M				
802.11ax_HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.88M	18.861M	21.33M	18.951M	21.51M	18.921M	20.82M	18.921M
5200MHz	Pass	Inf	21.18M	18.921M	21.45M	18.951M	20.94M	18.951M	21.75M	18.951M
5240MHz	Pass	Inf	21.36M	18.861M	21.48M	18.891M	21.66M	18.951M	21.09M	18.951M
802.11ax_HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	18.27M	19.61M	18.69M	24.528M				
5785MHz	Pass	500k	18.84M	19.28M	18.57M	20.57M				
5825MHz	Pass	500k	18.69M	19.85M	18.87M	25.607M				
802.11ax_HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.86M	37.841M	40.98M	37.841M	40.74M	38.021M	40.74M	37.901M
5230MHz	Pass	Inf	41.1M	37.901M	40.74M	38.081M	41.22M	38.081M	40.8M	38.021M
802.11ax_HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	35.76M	37.841M	37.74M	38.261M				
5795MHz	Pass	500k	37.2M	38.741M	37.32M	45.157M				
802.11ax_HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	77.361M	81.72M	76.882M	82.92M	77.601M	82.08M	77.361M
802.11ax_HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	74.4M	77.001M	73.92M	77.481M				

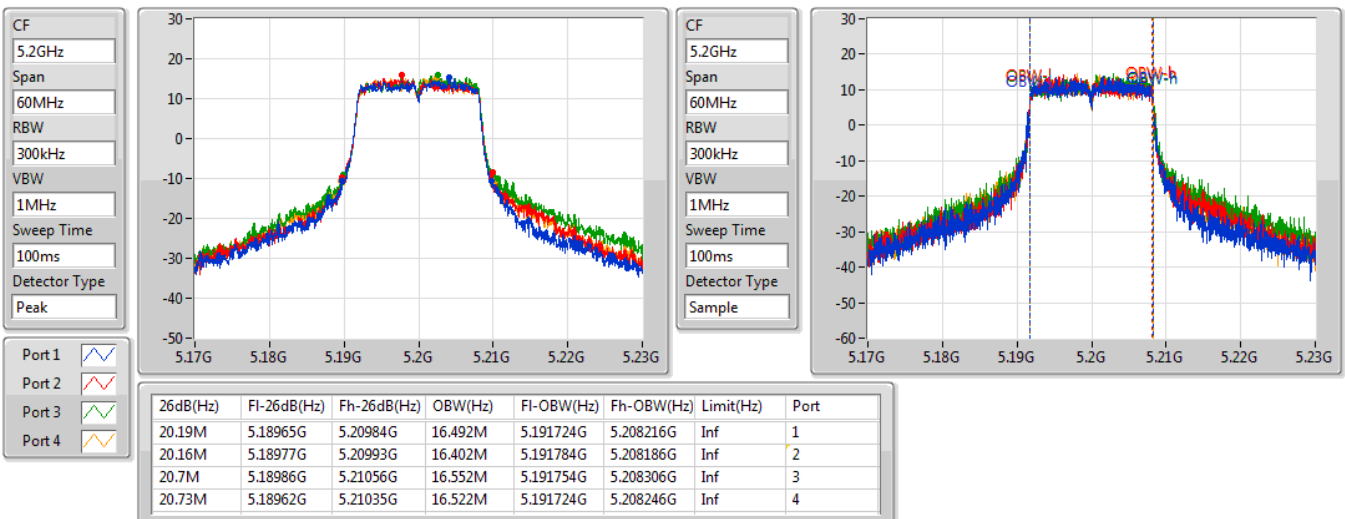
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_4TX
EBW
5180MHz

14/12/2020

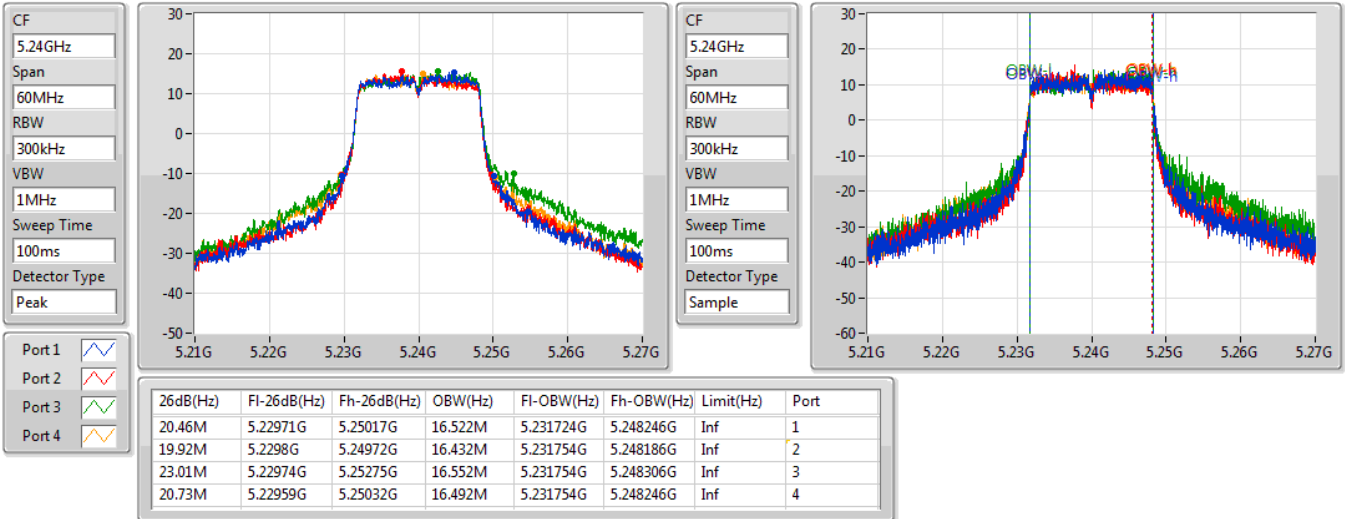

802.11a_Nss1,(6Mbps)_4TX
EBW
5200MHz

14/12/2020

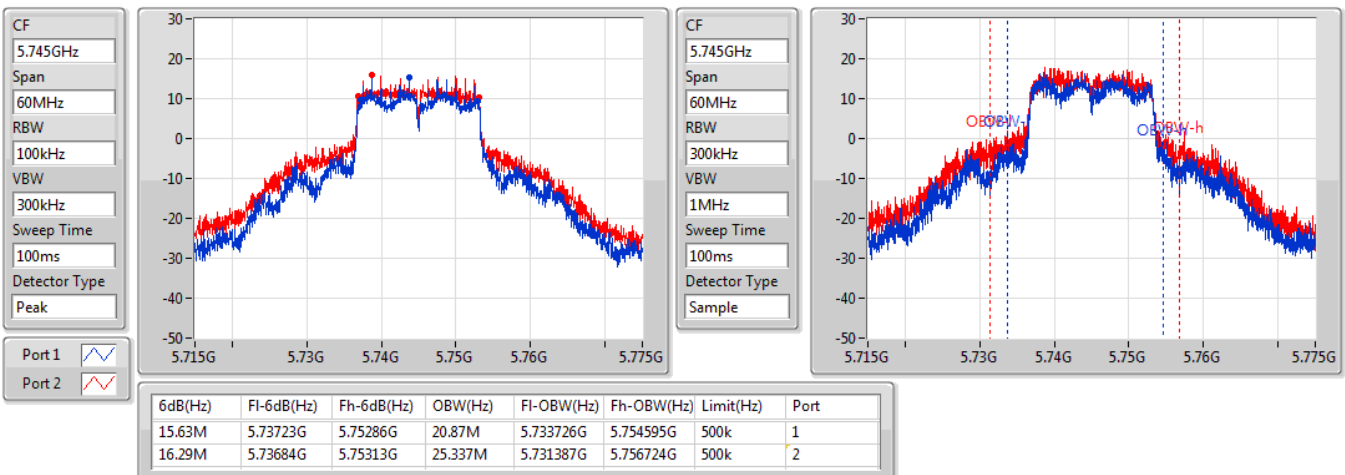


802.11a_Nss1,(6Mbps)_4TX
EBW
5240MHz

14/12/2020

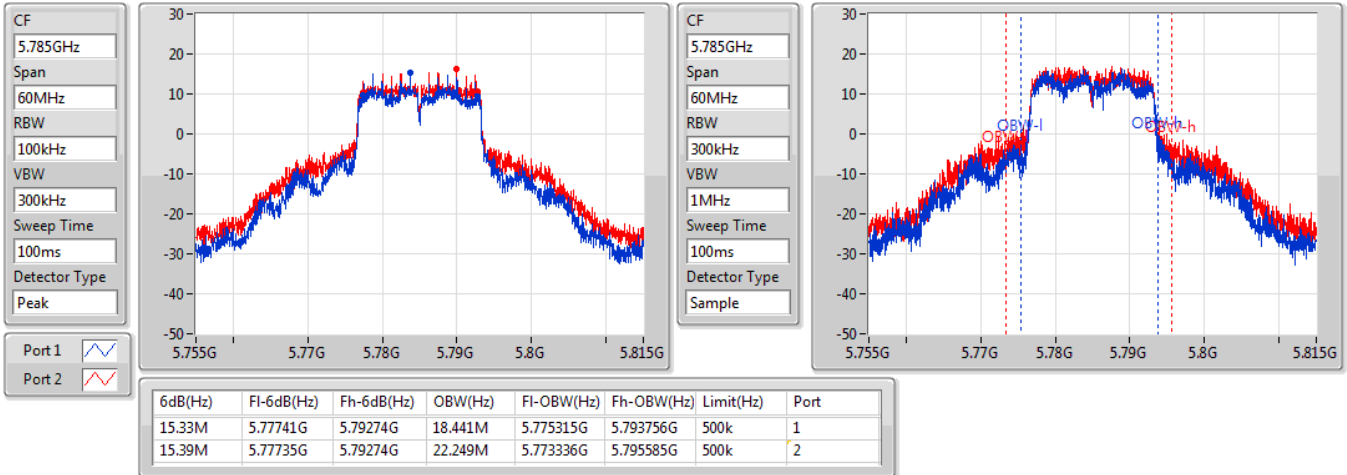

802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

14/12/2020

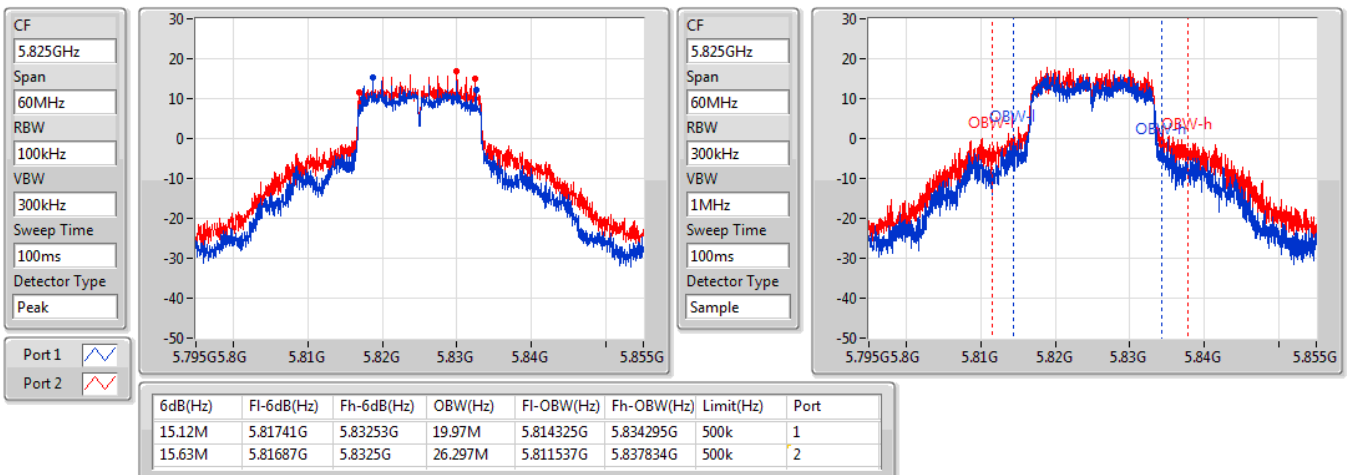


802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

14/12/2020

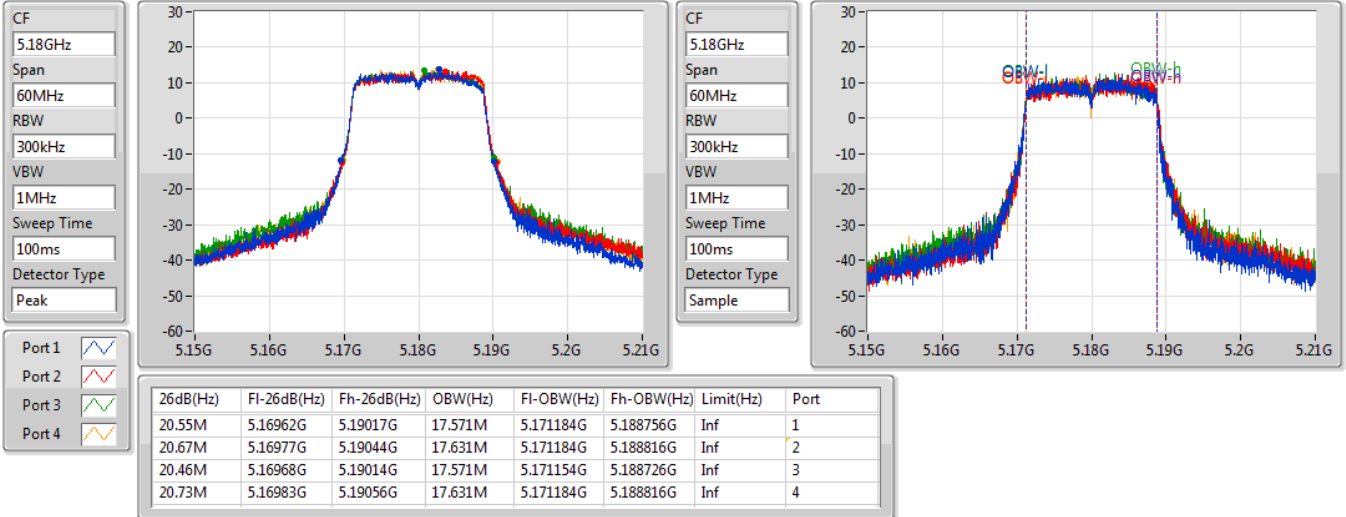

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

14/12/2020

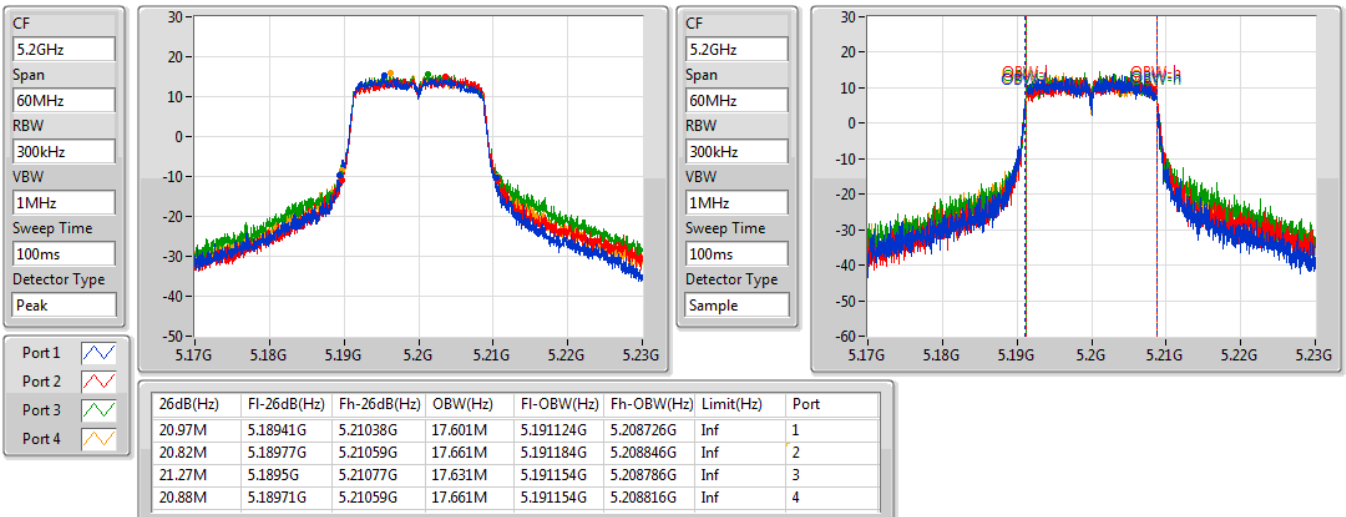


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5180MHz

14/12/2020

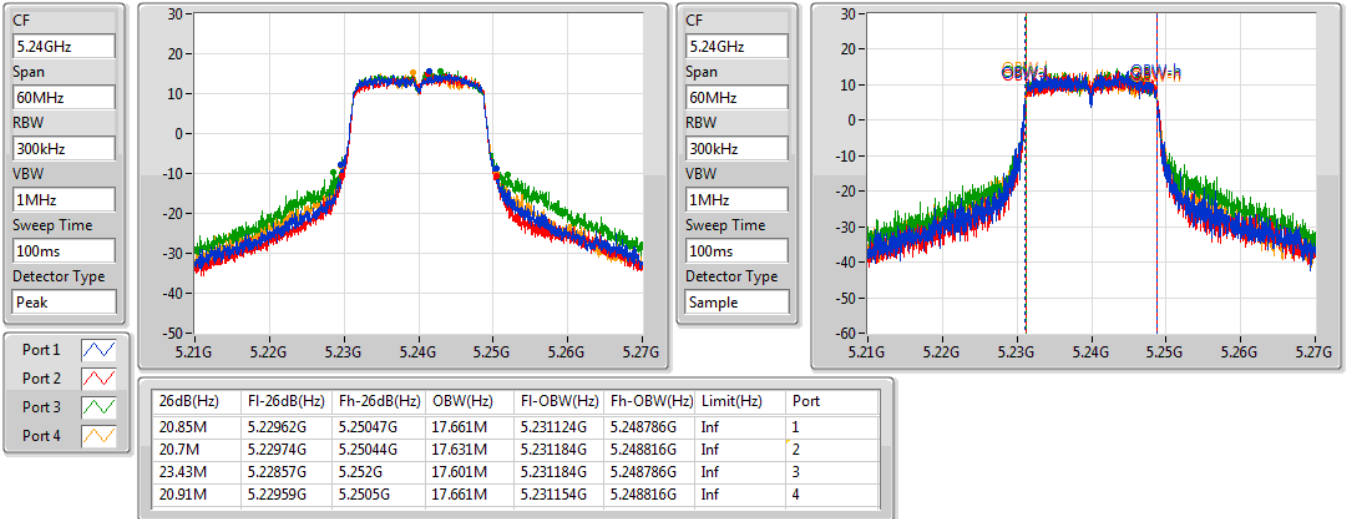

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5200MHz

14/12/2020

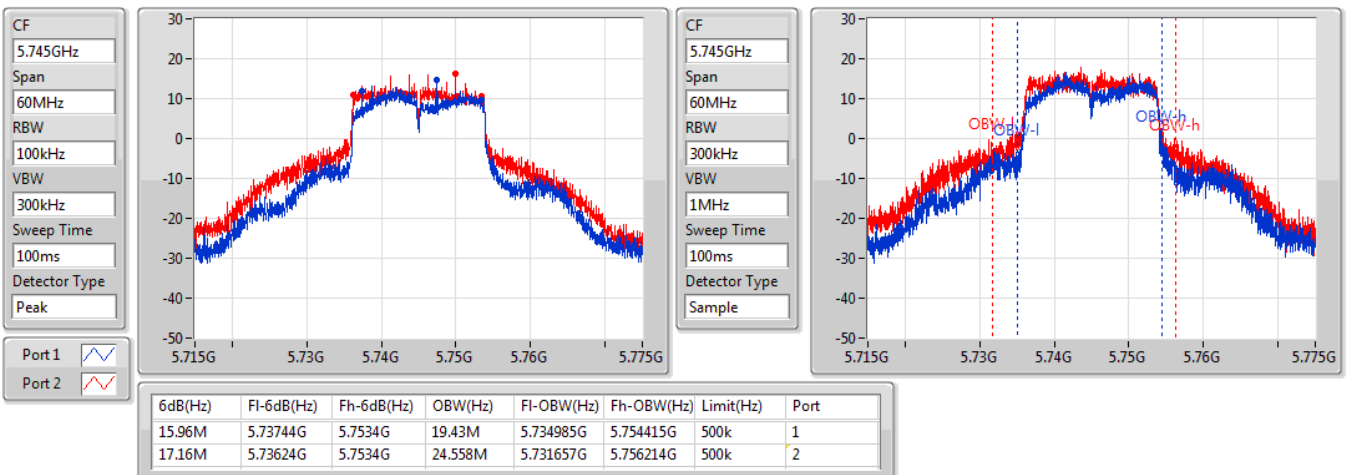


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5240MHz

14/12/2020

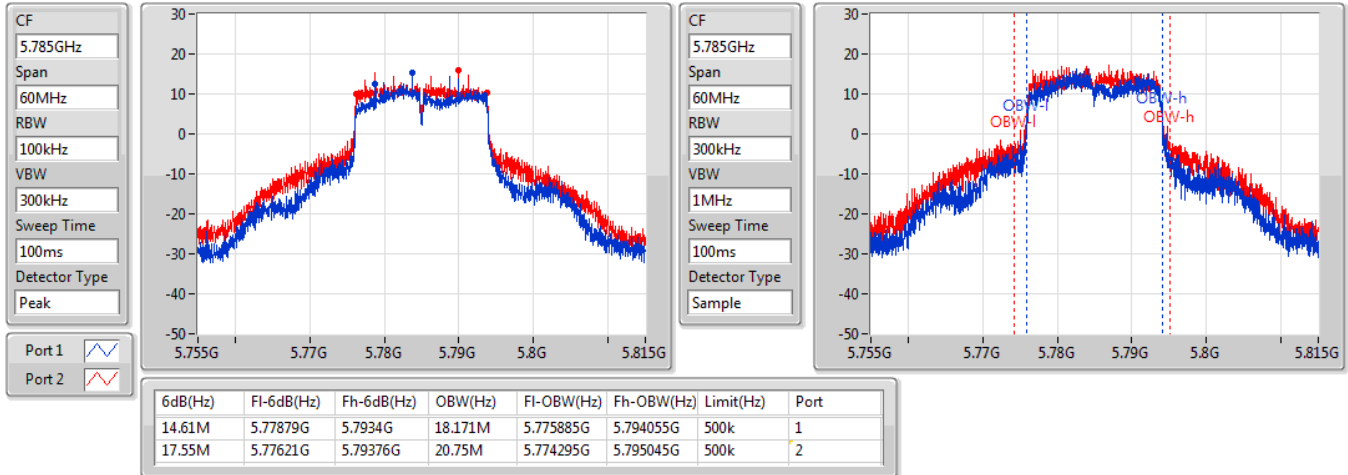

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

14/12/2020

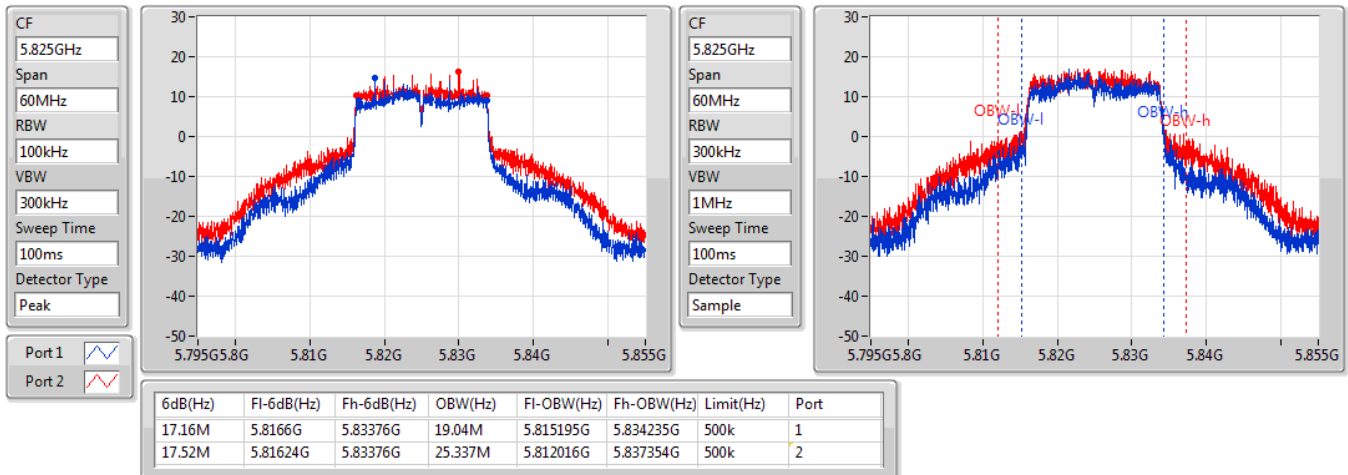


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5785MHz

14/12/2020

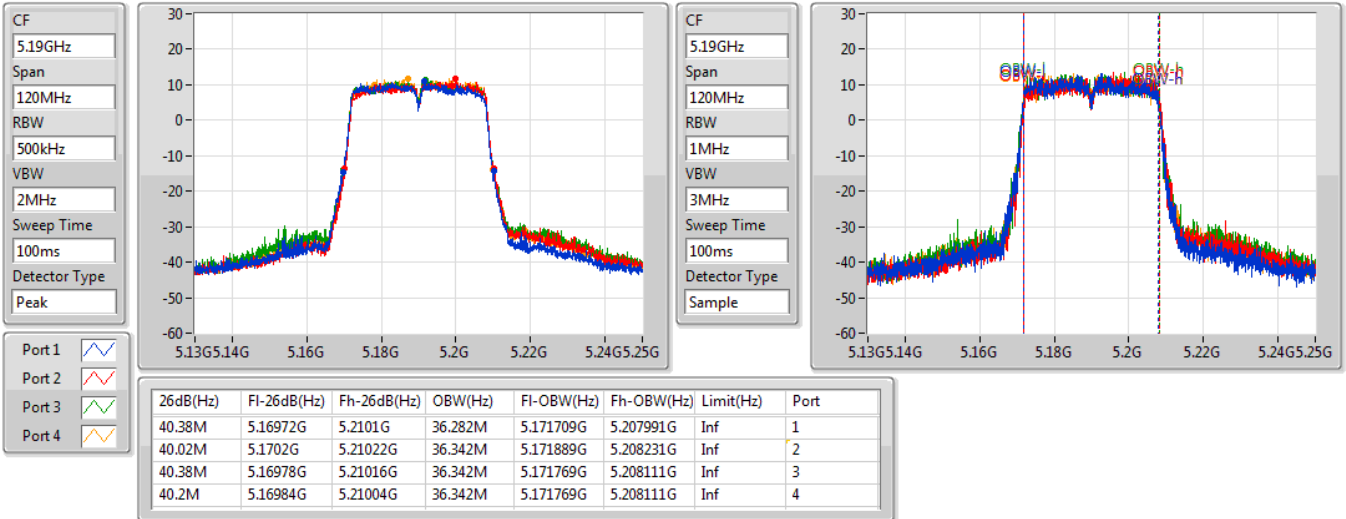

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5825MHz

14/12/2020

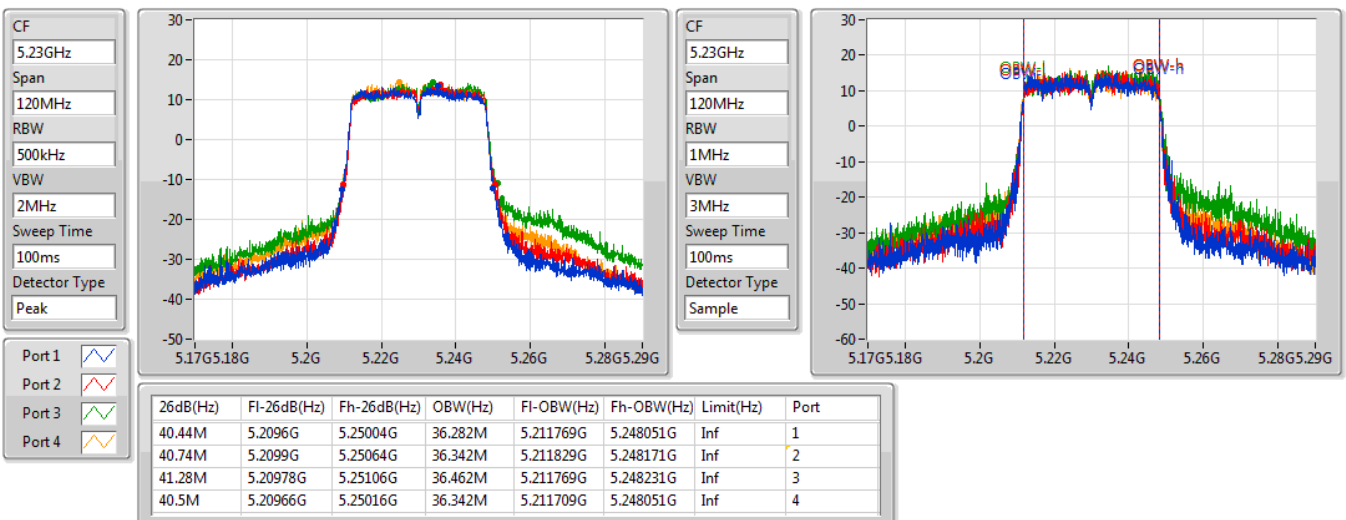


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5190MHz

14/12/2020

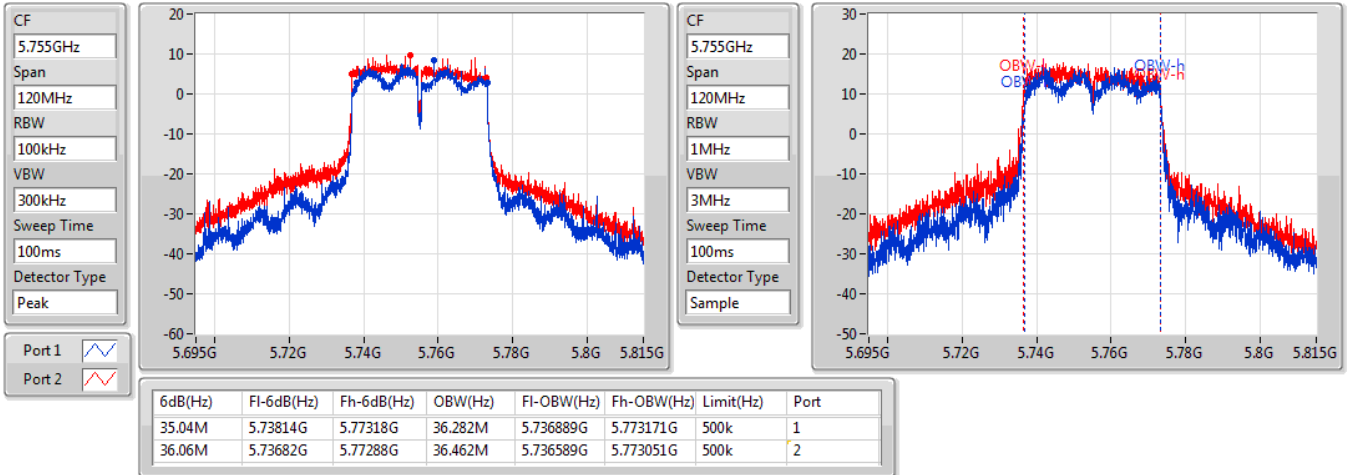

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5230MHz

14/12/2020

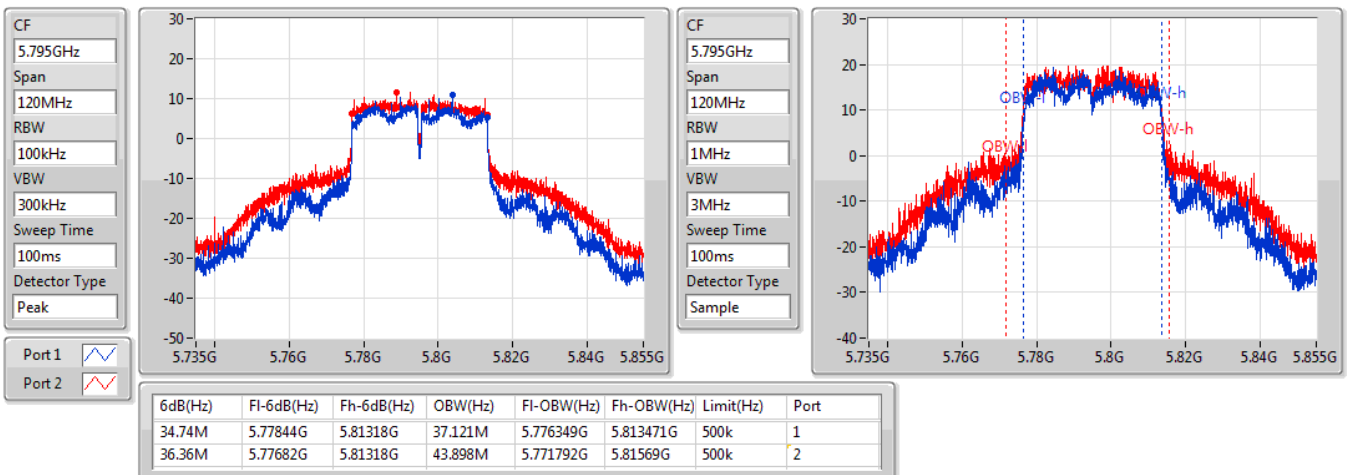


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5755MHz

14/12/2020

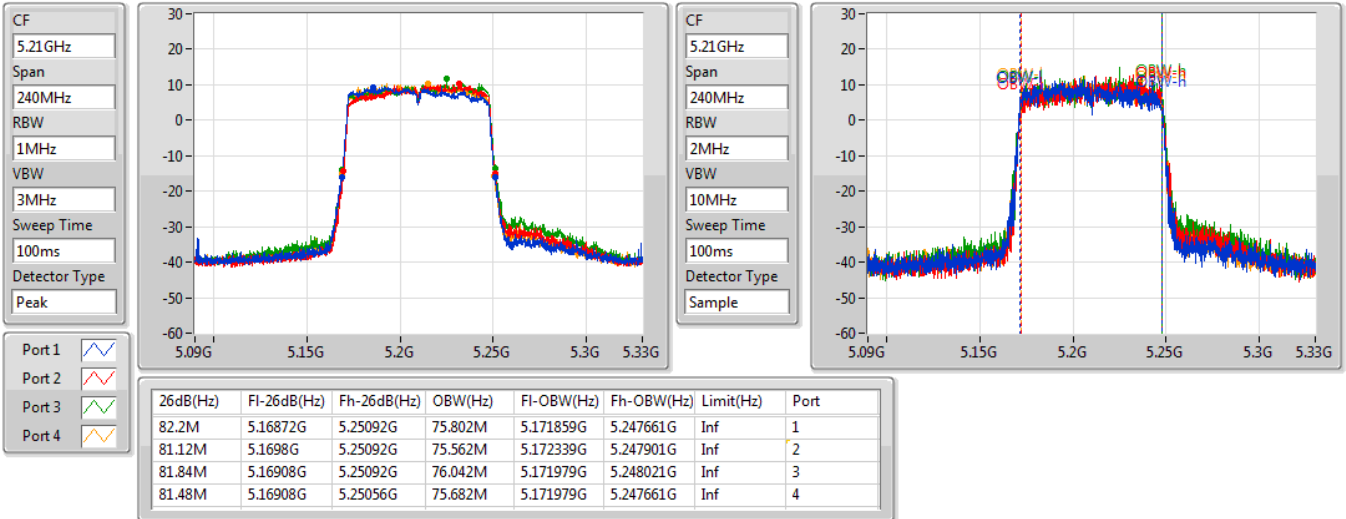

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

14/12/2020

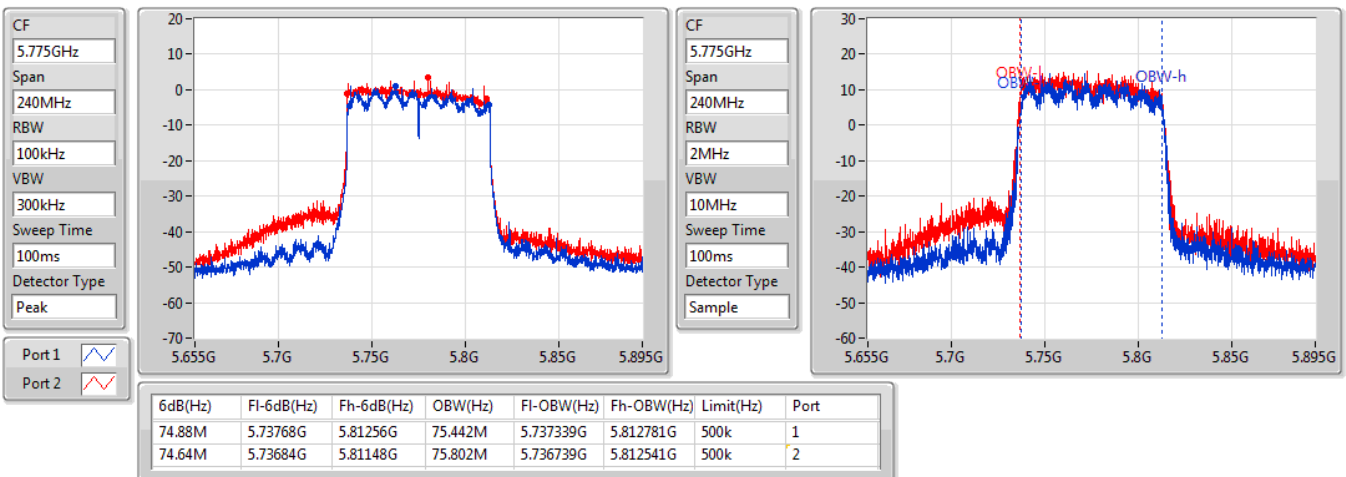


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5210MHz

14/12/2020


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5775MHz

14/12/2020

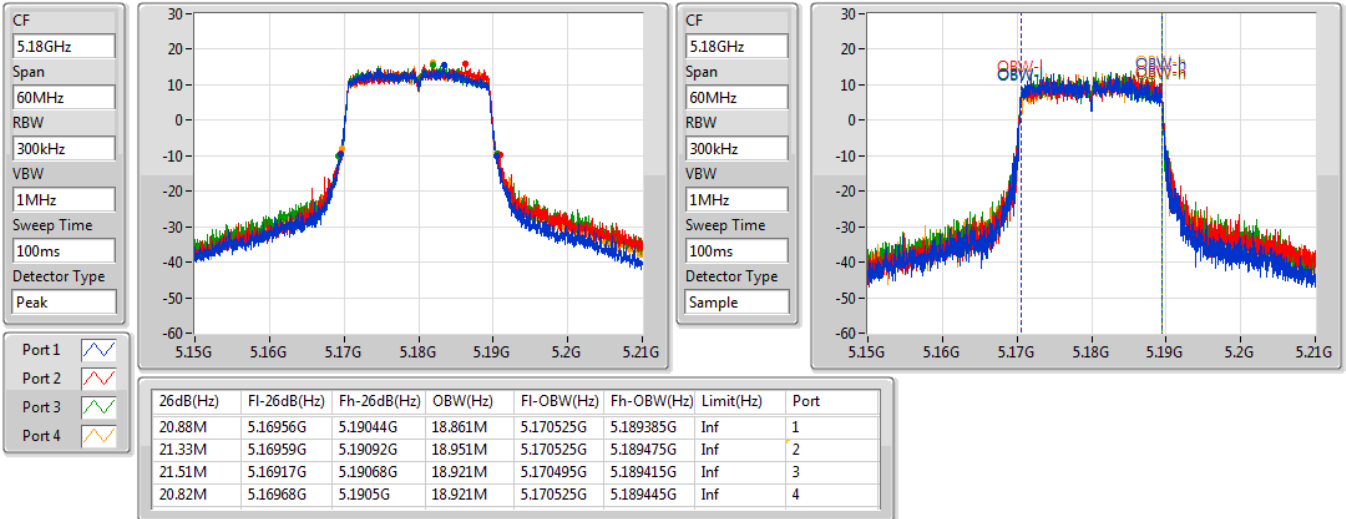


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

14/12/2020

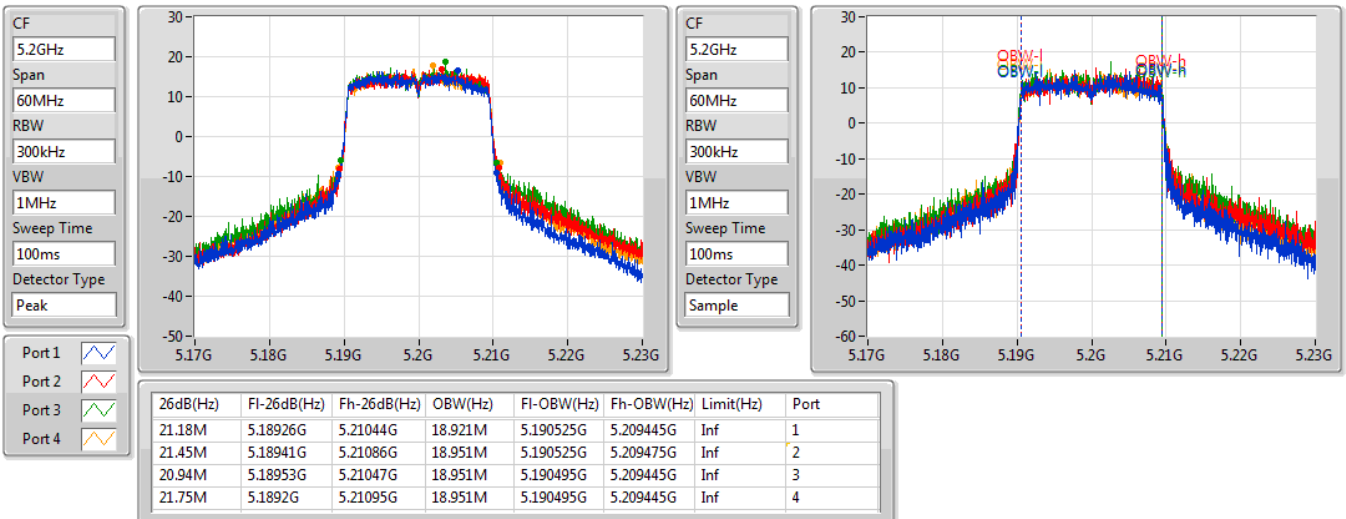


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

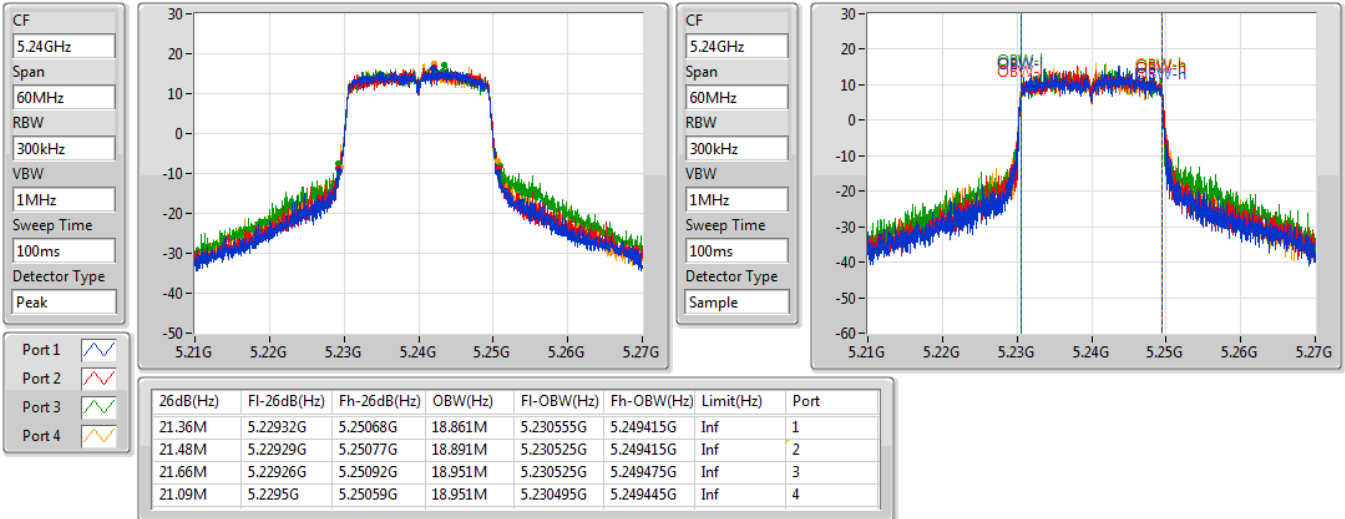
5200MHz

14/12/2020

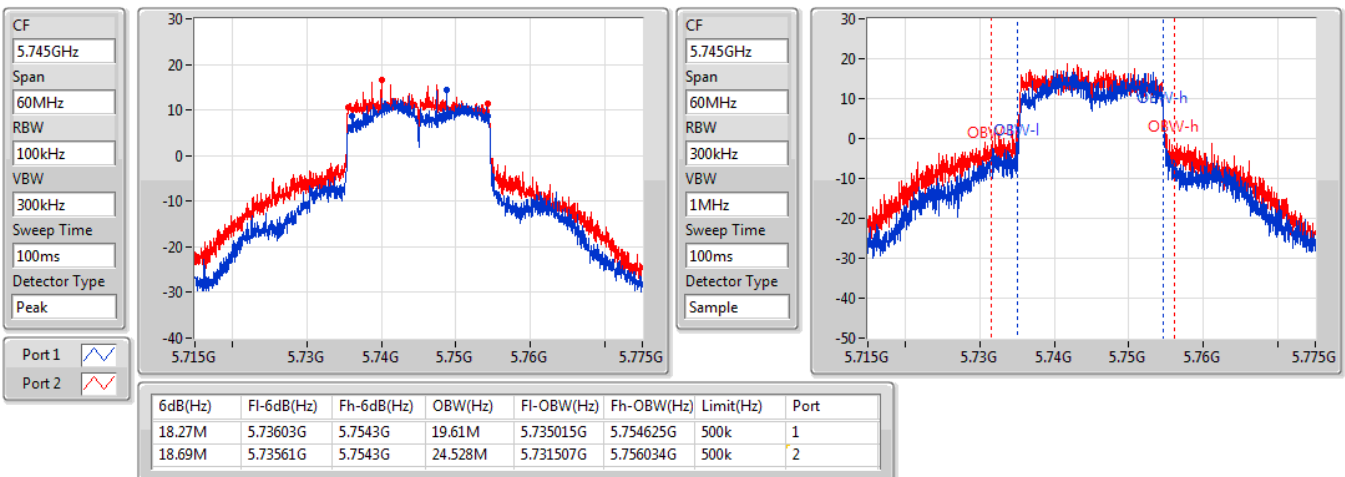


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5240MHz

14/12/2020

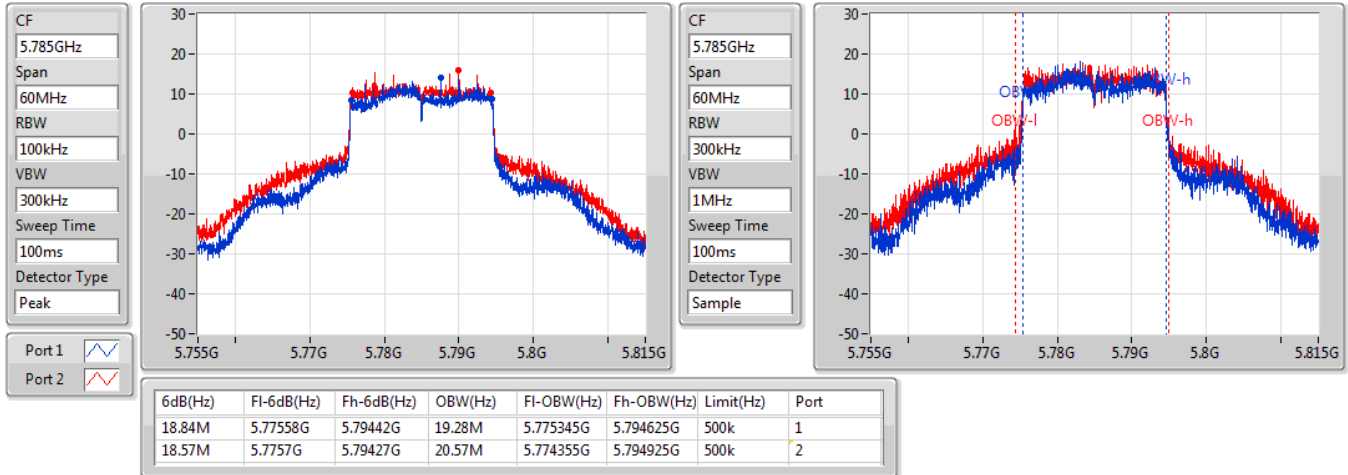

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5745MHz

14/12/2020

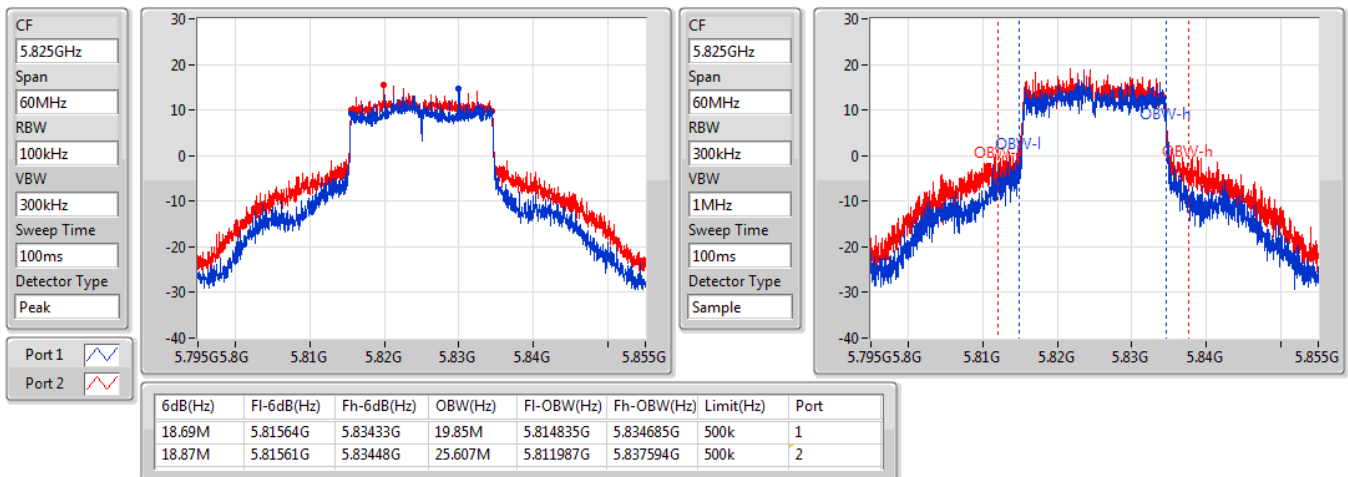


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5785MHz

14/12/2020

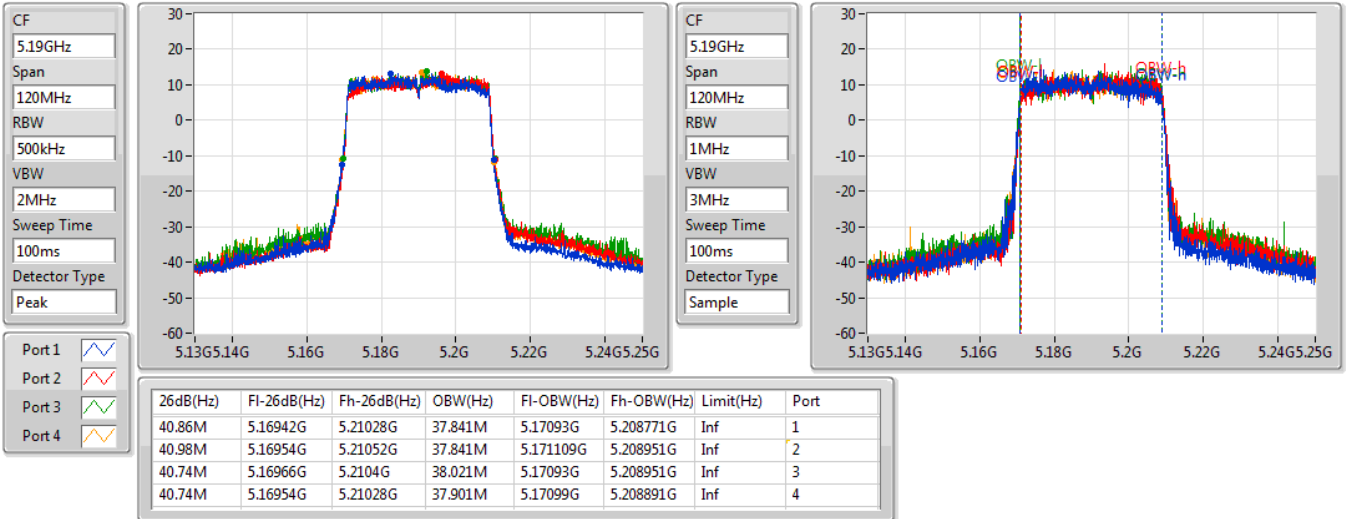

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
5825MHz

14/12/2020

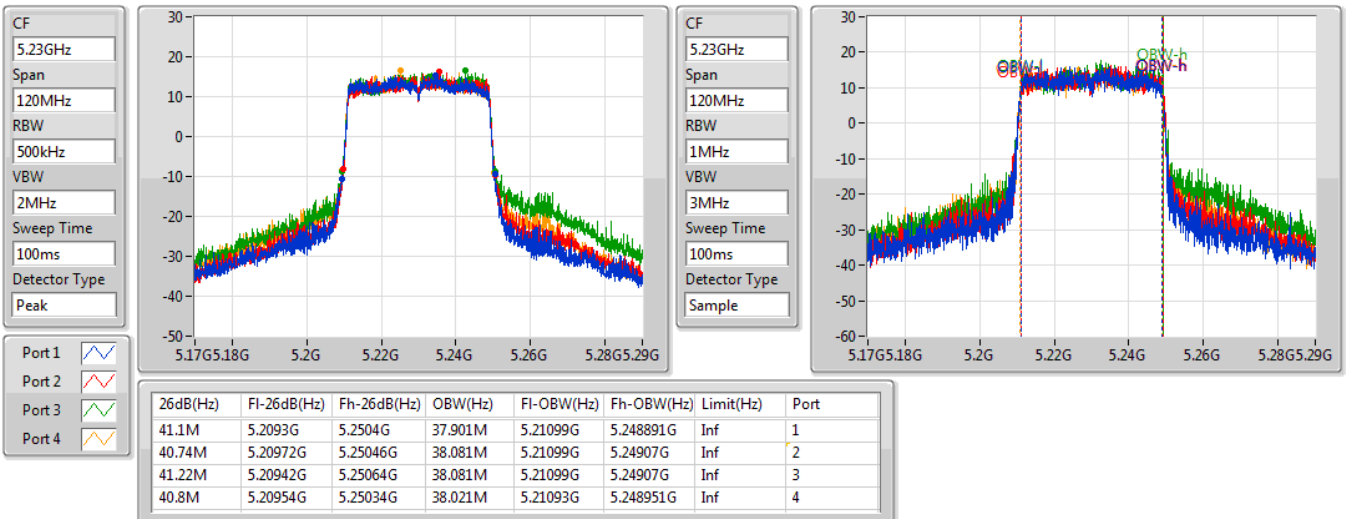


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5190MHz

14/12/2020

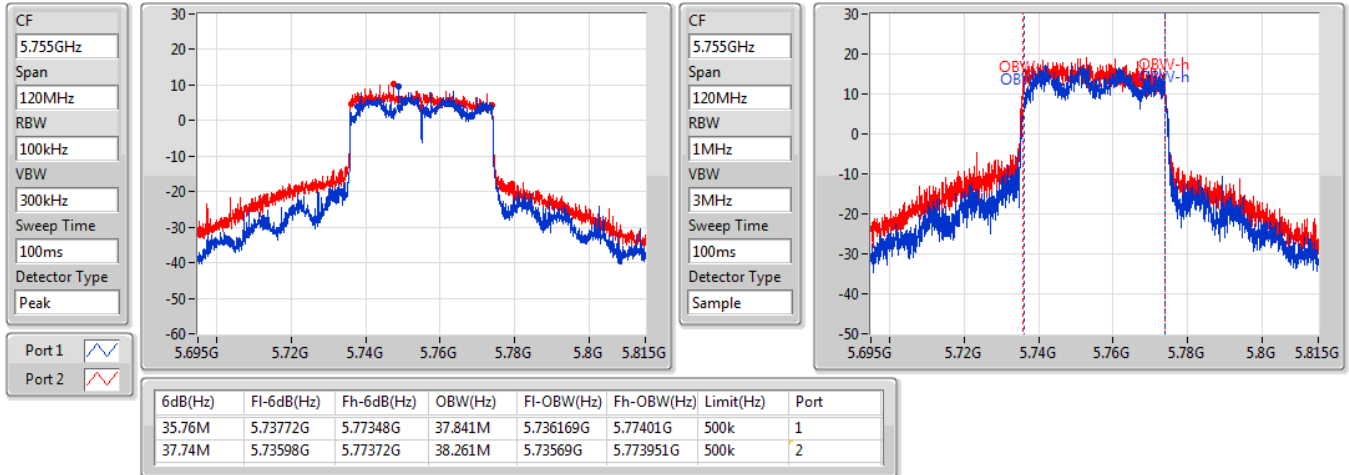

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5230MHz

14/12/2020

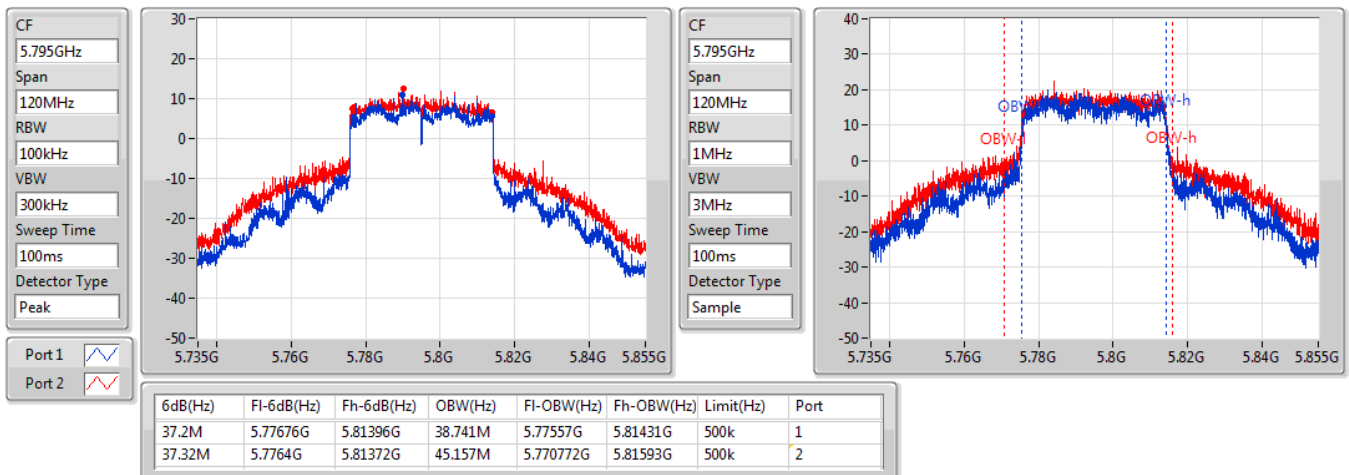


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5755MHz

14/12/2020

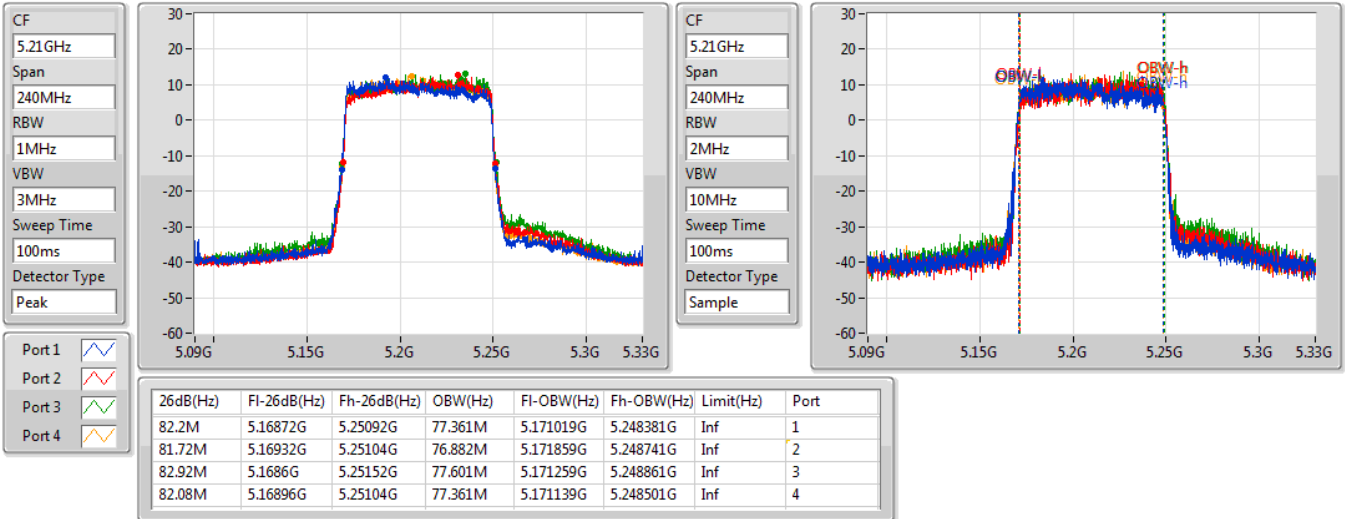

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5795MHz

14/12/2020

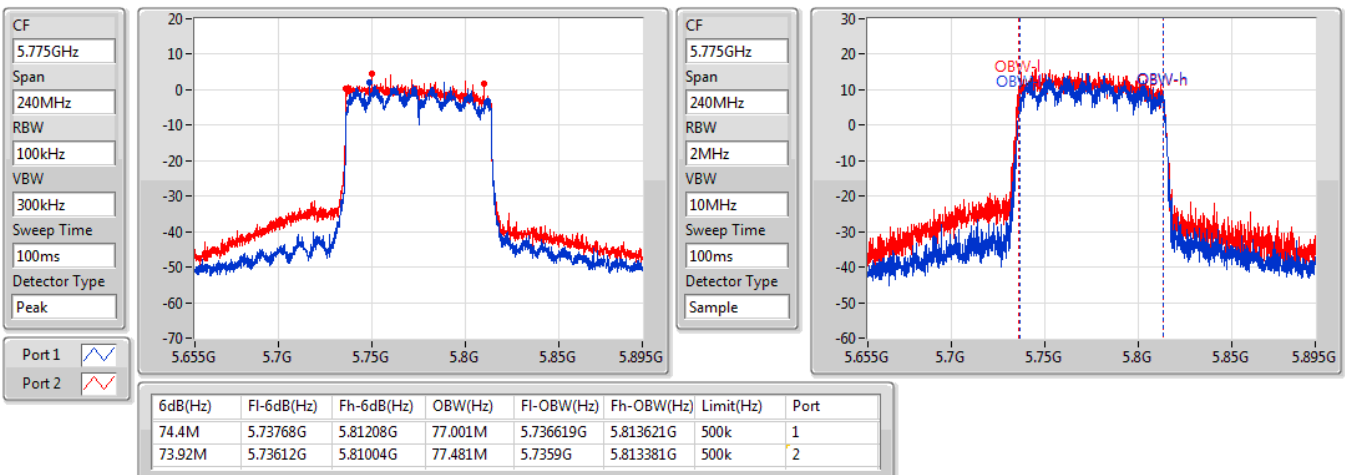


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5210MHz

14/12/2020


802.11ax HEW80_Nss1,(MCS0)_2TX
EBW
5775MHz

14/12/2020



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	20.91M	17.655M	17M7D1D	20.13M	17.516M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.2M	36.327M	36M3D1D	39.42M	36.185M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	79.92M	75.889M	75M9D1D	79.56M	75.48M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	27.39M	19.129M	19M1D1D	22.53M	19.022M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	49.14M	38.357M	38M4D1D	42.96M	37.87M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	85.8M	77.947M	77M9D1D	83.4M	76.972M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	17.55M	17.694M	17M7D1D	16.02M	17.543M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	36.12M	36.362M	36M4D1D	35.04M	36.243M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	75M	75.731M	75M7D1D	72.6M	75.718M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	19.11M	24.048M	24M0D1D	19.05M	19.07M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	38.1M	41.499M	41M5D1D	38.04M	38.861M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	78.12M	79.04M	79M0D1D	76.2M	78.321M

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

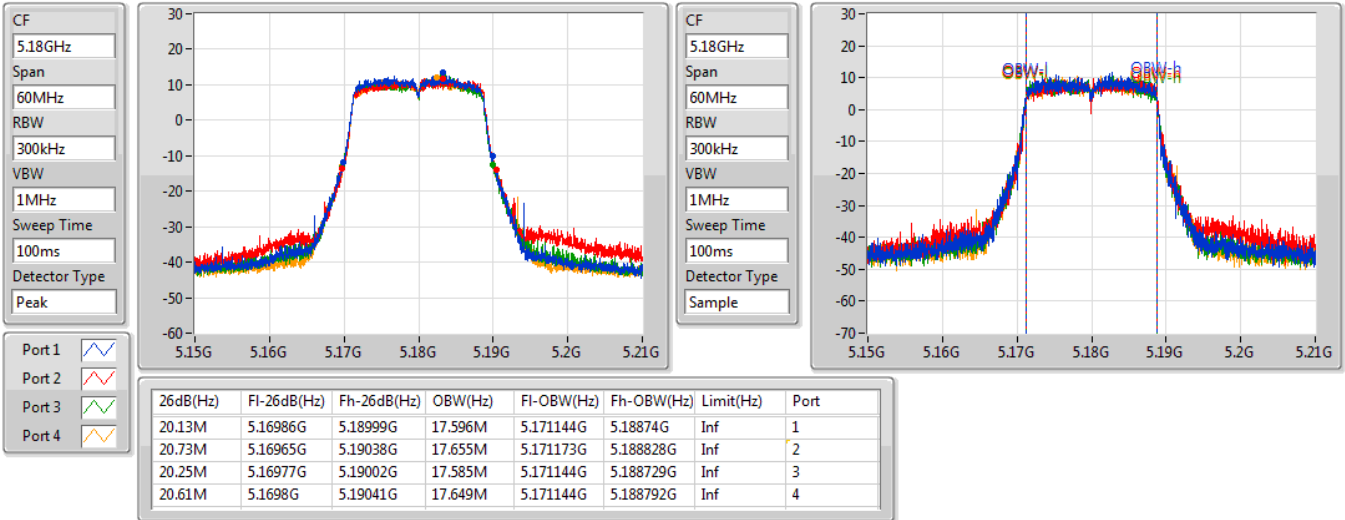
**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	20.13M	17.596M	20.73M	17.655M	20.25M	17.585M	20.61M	17.649M
5200MHz_TnomVnom	Pass	Inf	20.34M	17.604M	20.58M	17.633M	20.22M	17.627M	20.91M	17.612M
5240MHz_TnomVnom	Pass	Inf	20.19M	17.597M	20.61M	17.644M	20.37M	17.516M	20.7M	17.639M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz_TnomVnom	Pass	500k	16.02M	17.543M	17.55M	17.659M				
5785MHz_TnomVnom	Pass	500k	16.23M	17.6M	17.37M	17.694M				
5825MHz_TnomVnom	Pass	500k	16.65M	17.625M	17.4M	17.661M				
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	Inf	39.9M	36.228M	40.14M	36.185M	40.2M	36.327M	40.02M	36.212M
5230MHz_TnomVnom	Pass	Inf	40.2M	36.3M	39.6M	36.256M	39.42M	36.219M	39.84M	36.327M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz_TnomVnom	Pass	500k	35.1M	36.243M	35.16M	36.355M				
5795MHz_TnomVnom	Pass	500k	35.04M	36.295M	36.12M	36.362M				
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	Inf	79.92M	75.794M	79.56M	75.48M	79.8M	75.889M	79.56M	75.551M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz_TnomVnom	Pass	500k	72.6M	75.731M	75M	75.718M				
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	23.1M	19.069M	22.53M	19.03M	22.83M	19.056M	22.92M	19.033M
5200MHz_TnomVnom	Pass	Inf	22.62M	19.022M	23.34M	19.08M	27.39M	19.129M	22.8M	19.053M
5240MHz_TnomVnom	Pass	Inf	22.68M	19.061M	23.25M	19.082M	23.37M	19.058M	23.28M	19.027M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz_TnomVnom	Pass	500k	19.08M	19.13M	19.11M	19.07M				
5785MHz_TnomVnom	Pass	500k	19.08M	24.048M	19.05M	19.31M				
5825MHz_TnomVnom	Pass	500k	19.11M	19.22M	19.11M	19.07M				
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	Inf	44.34M	38.132M	43.2M	37.87M	44.58M	38.27M	43.8M	38.15M
5230MHz_TnomVnom	Pass	Inf	42.96M	38.094M	45.12M	38.11M	49.14M	38.05M	46.14M	38.357M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz_TnomVnom	Pass	500k	38.04M	39.46M	38.1M	39.04M				
5795MHz_TnomVnom	Pass	500k	38.04M	41.499M	38.04M	38.861M				
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	Inf	85.8M	77.127M	83.4M	76.972M	84.24M	77.947M	85.2M	77.318M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz_TnomVnom	Pass	500k	76.2M	79.04M	78.12M	78.321M				

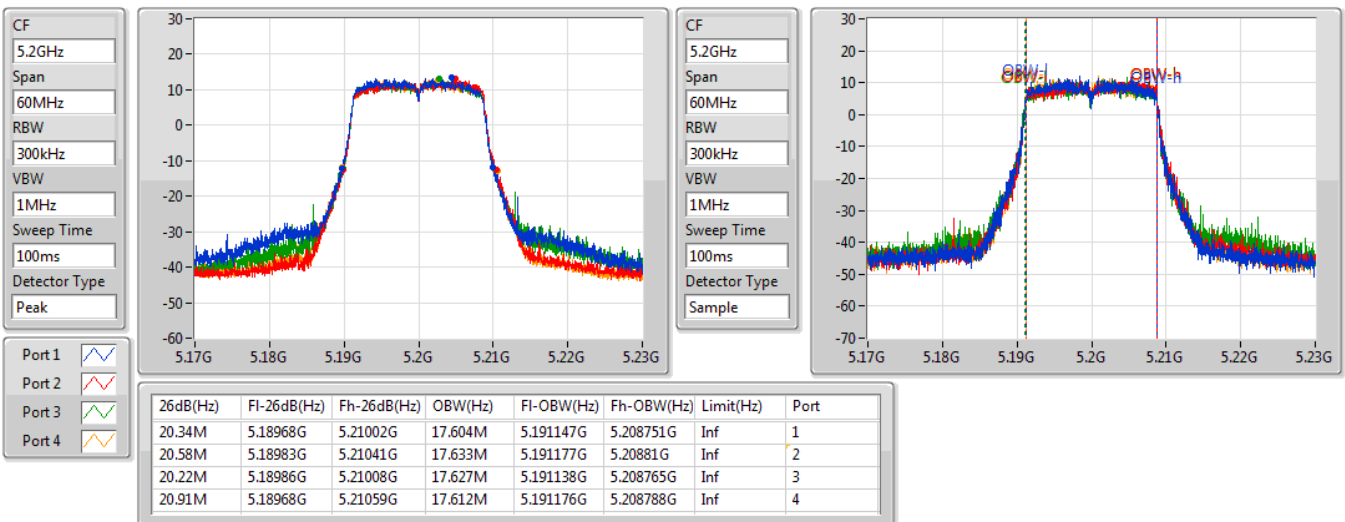
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5180MHz

16/12/2020

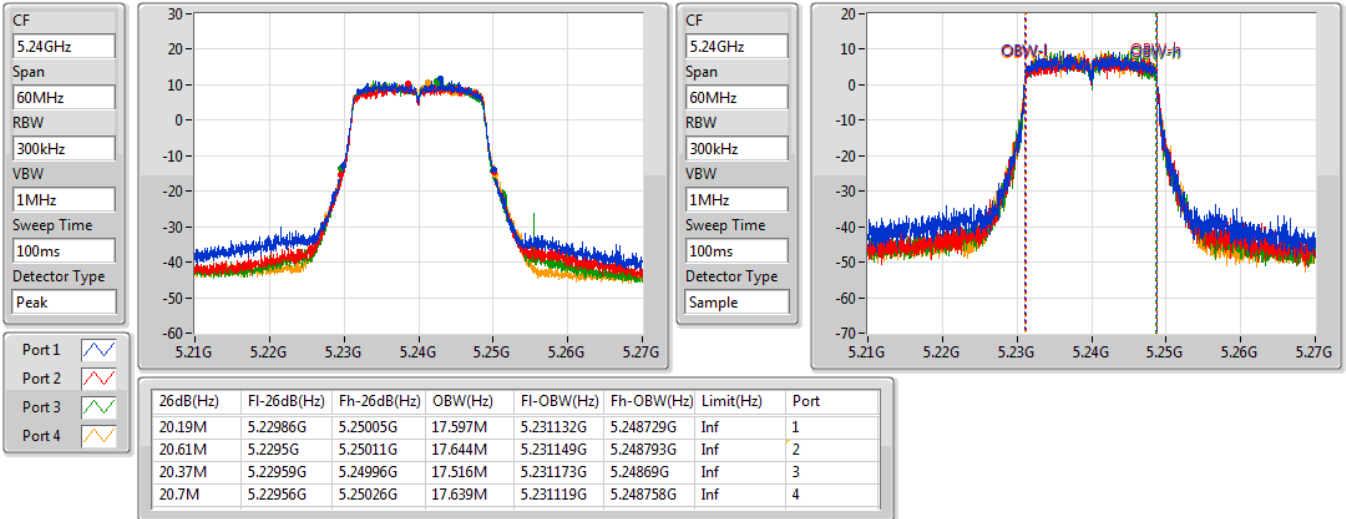

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5200MHz

16/12/2020

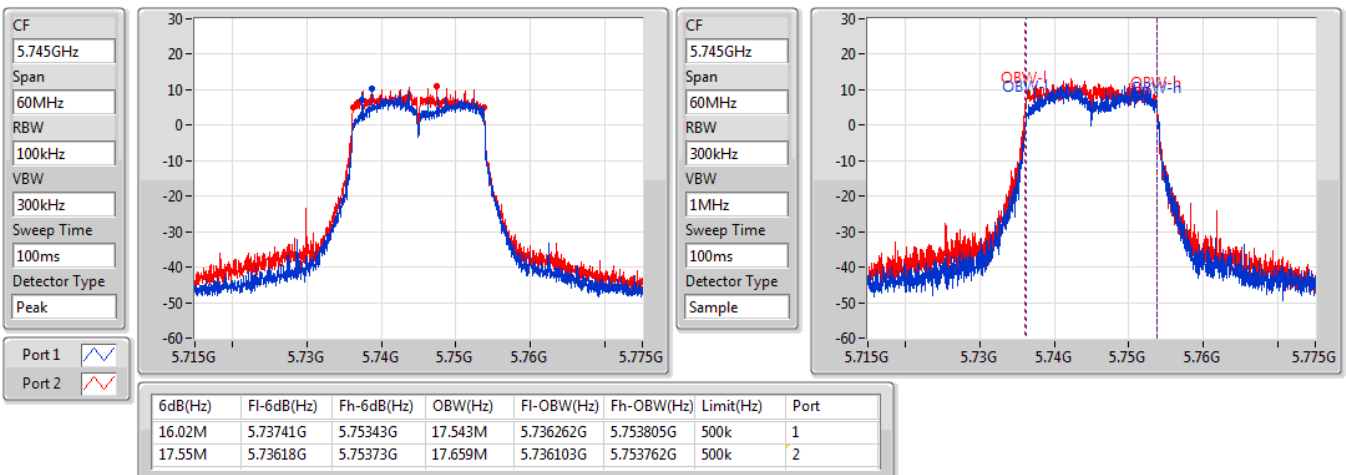


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5240MHz

16/12/2020

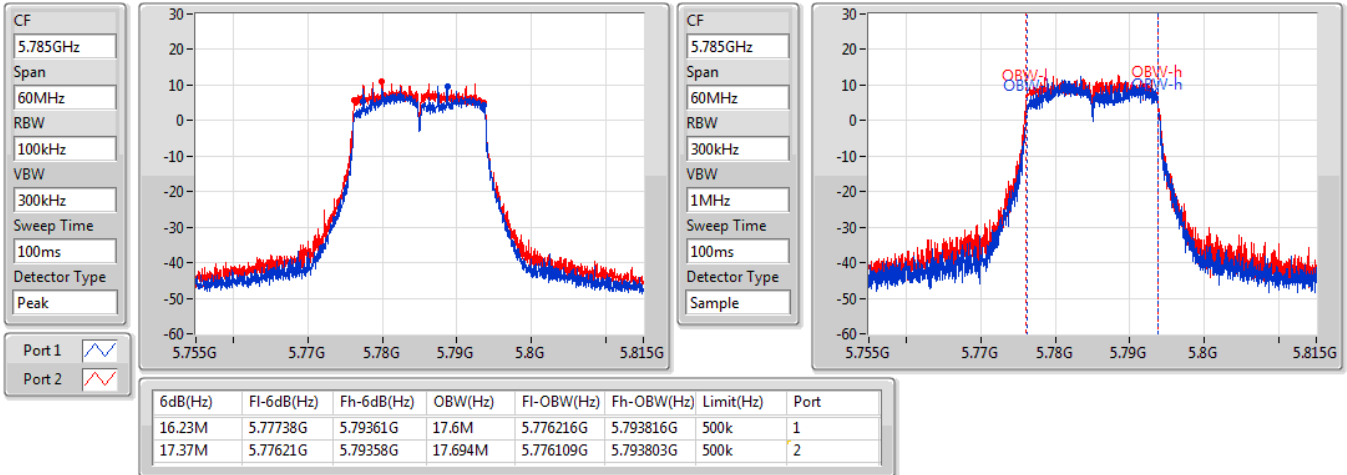

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5745MHz

16/12/2020

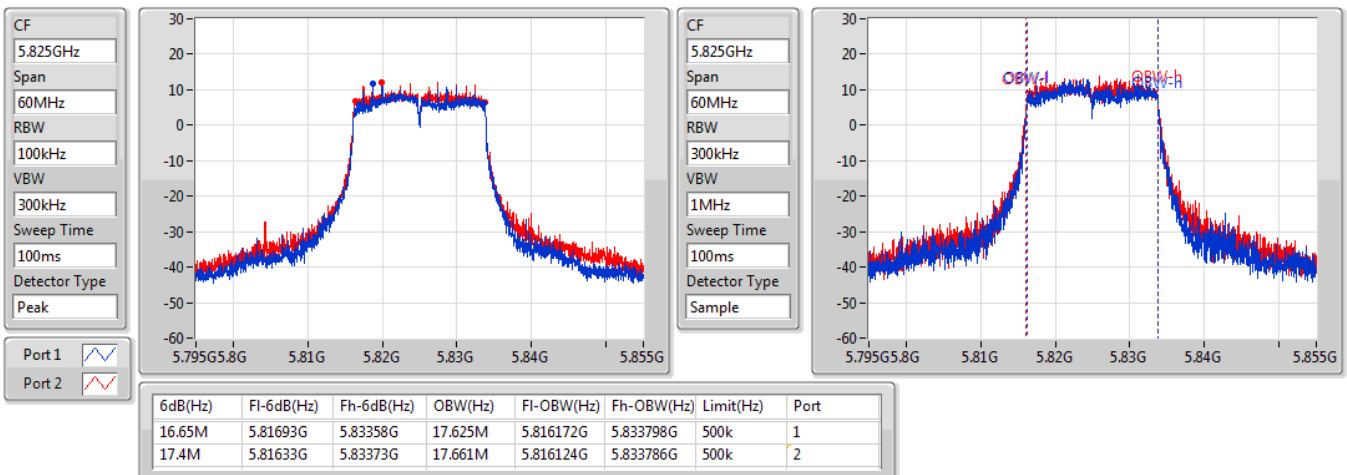


802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5785MHz

16/12/2020

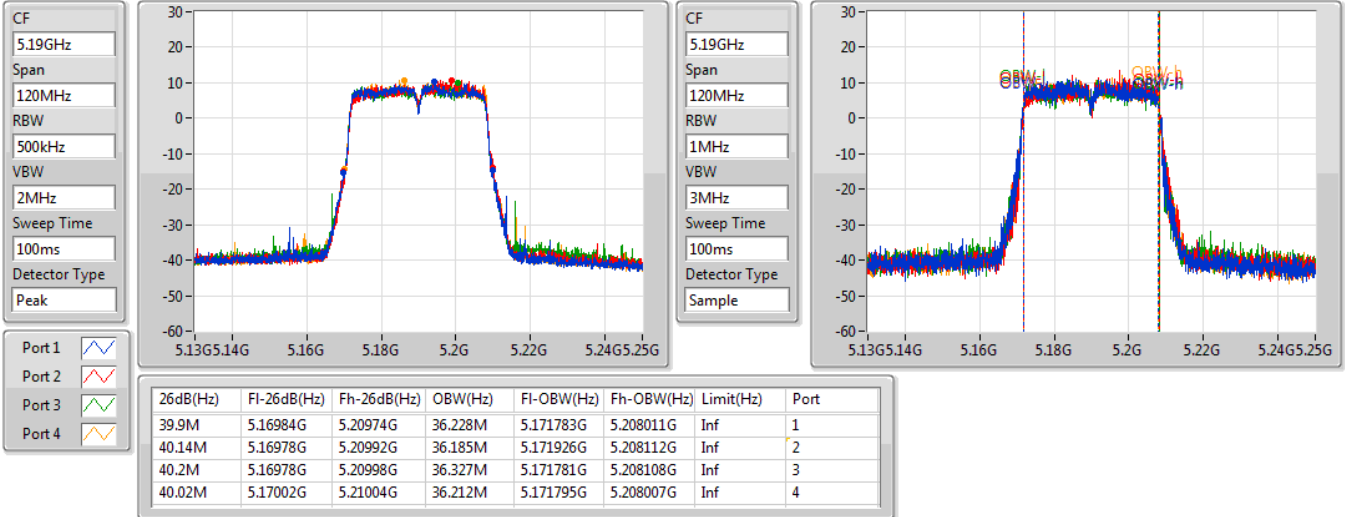

802.11ac VHT20-BF_Nss1,(MCS0)_2TX
EBW
5825MHz

16/12/2020

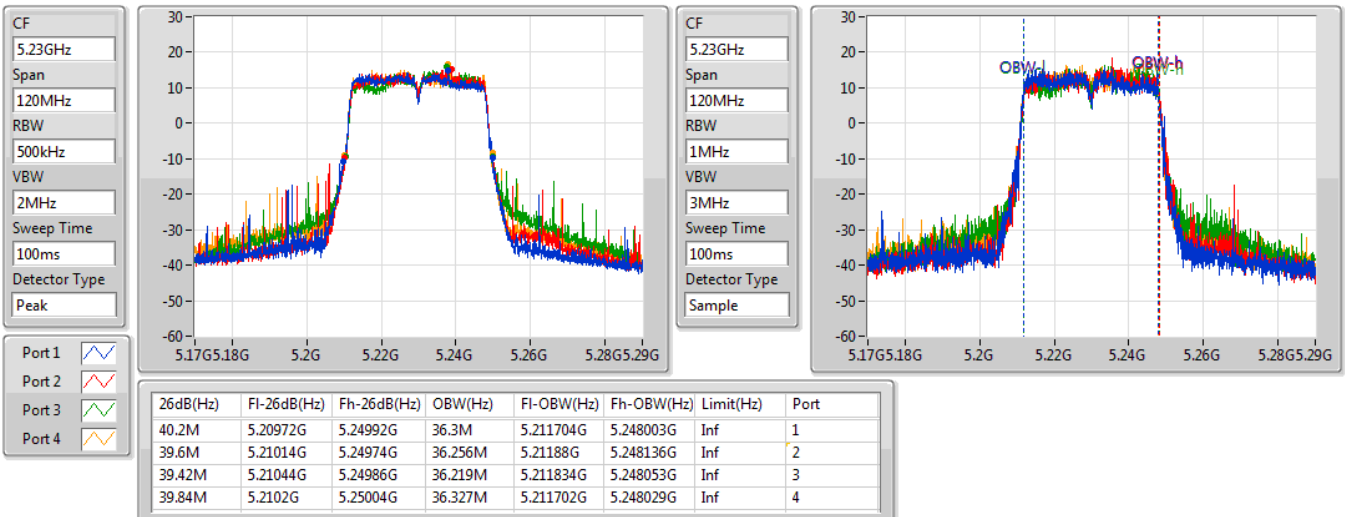


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5190MHz

16/12/2020

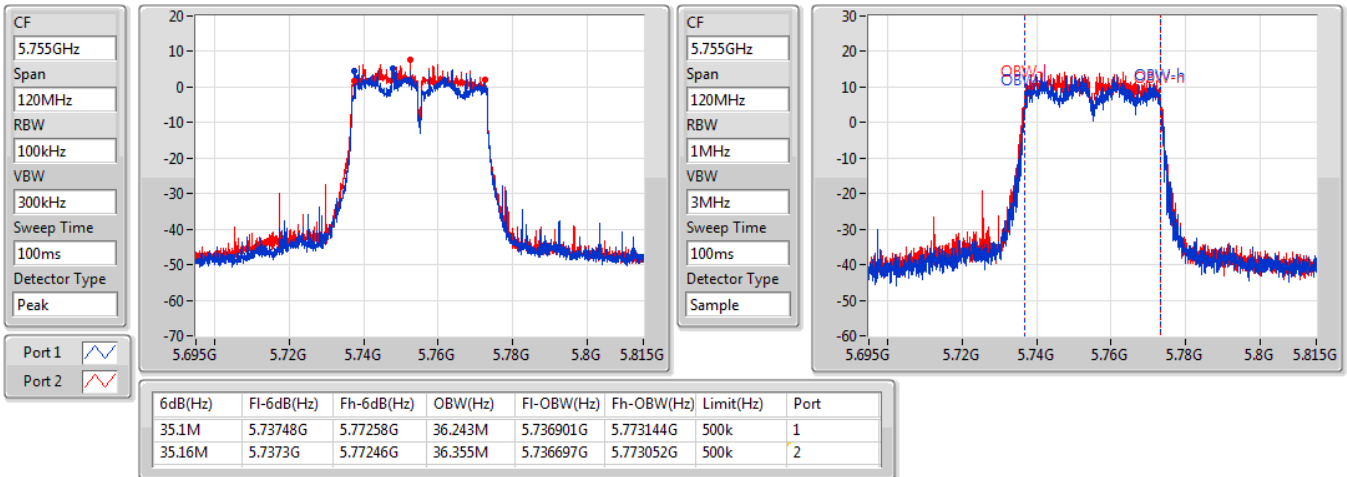

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5230MHz

16/12/2020

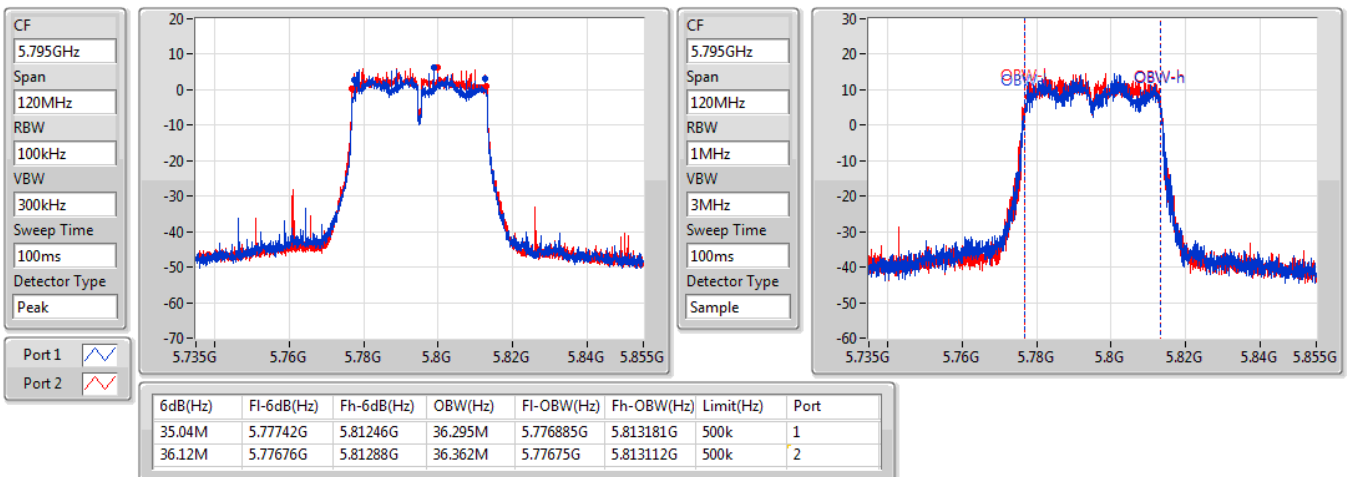


802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5755MHz

16/12/2020

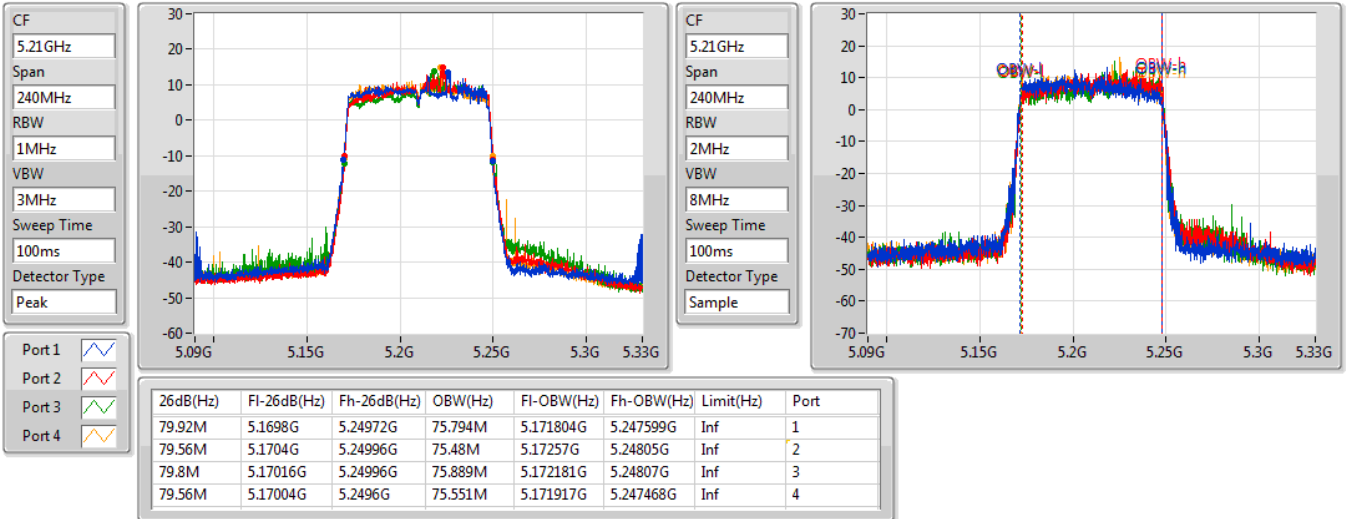

802.11ac VHT40-BF_Nss1,(MCS0)_2TX
EBW
5795MHz

16/12/2020

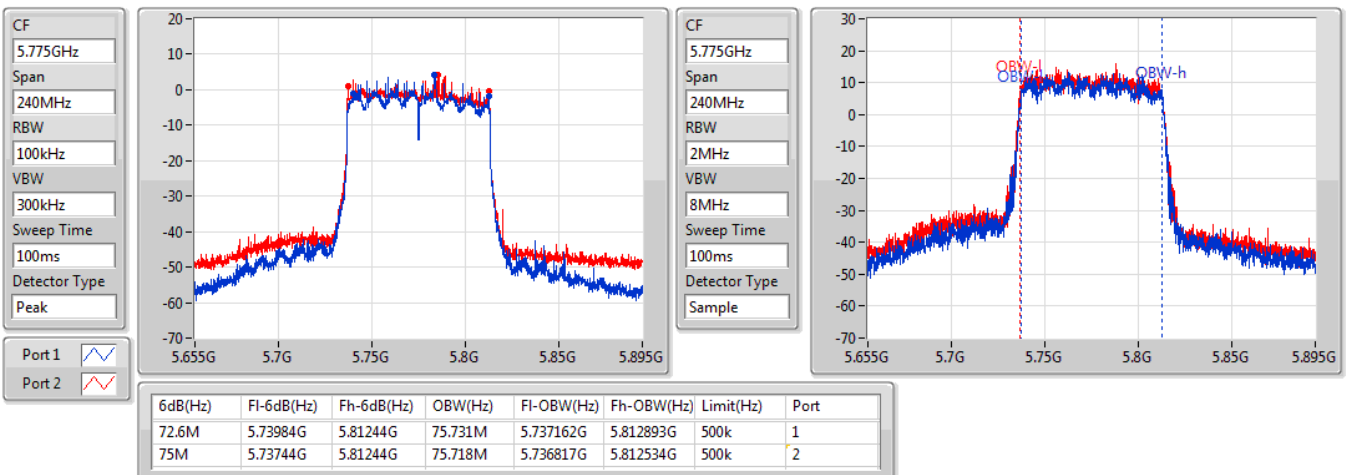


802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5210MHz

16/12/2020

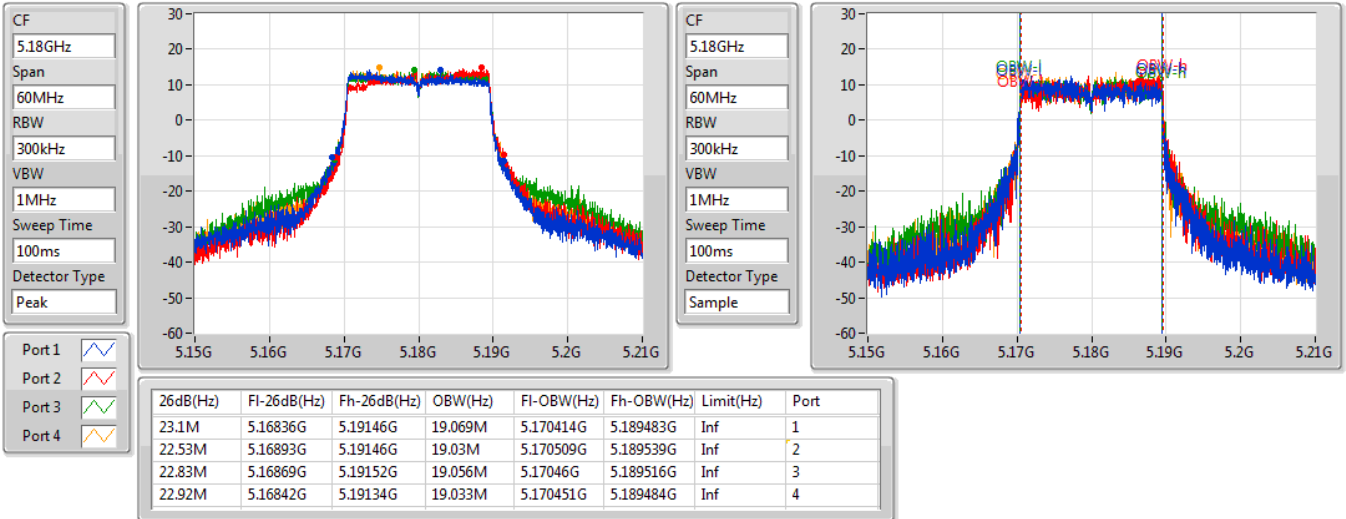

802.11ac VHT80-BF_Nss1,(MCS0)_2TX
EBW
5775MHz

16/12/2020

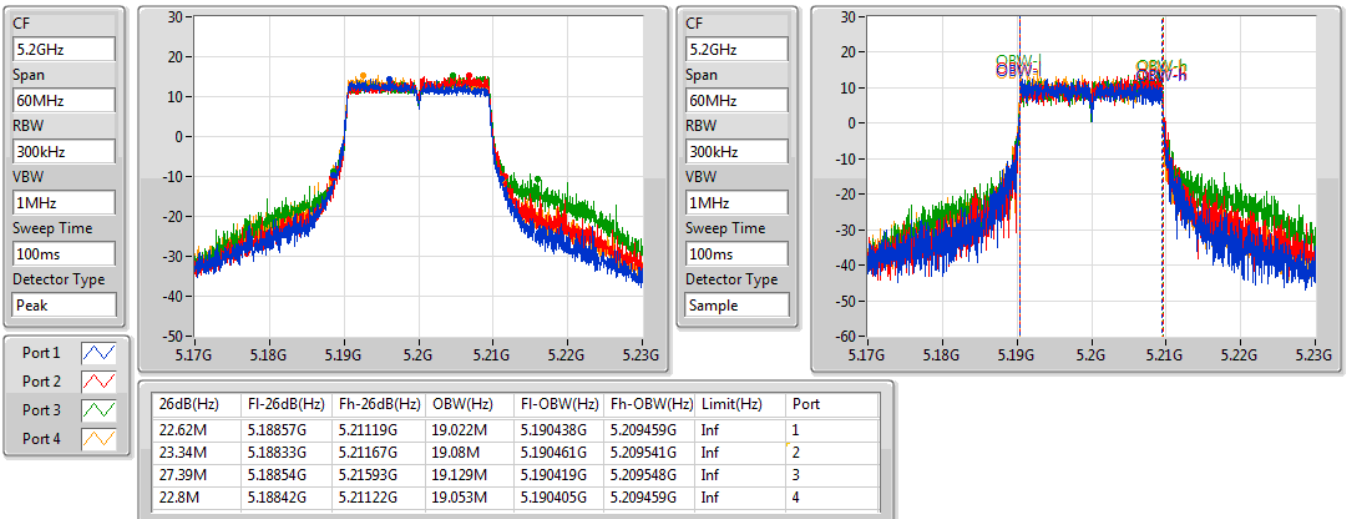


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5180MHz

16/12/2020

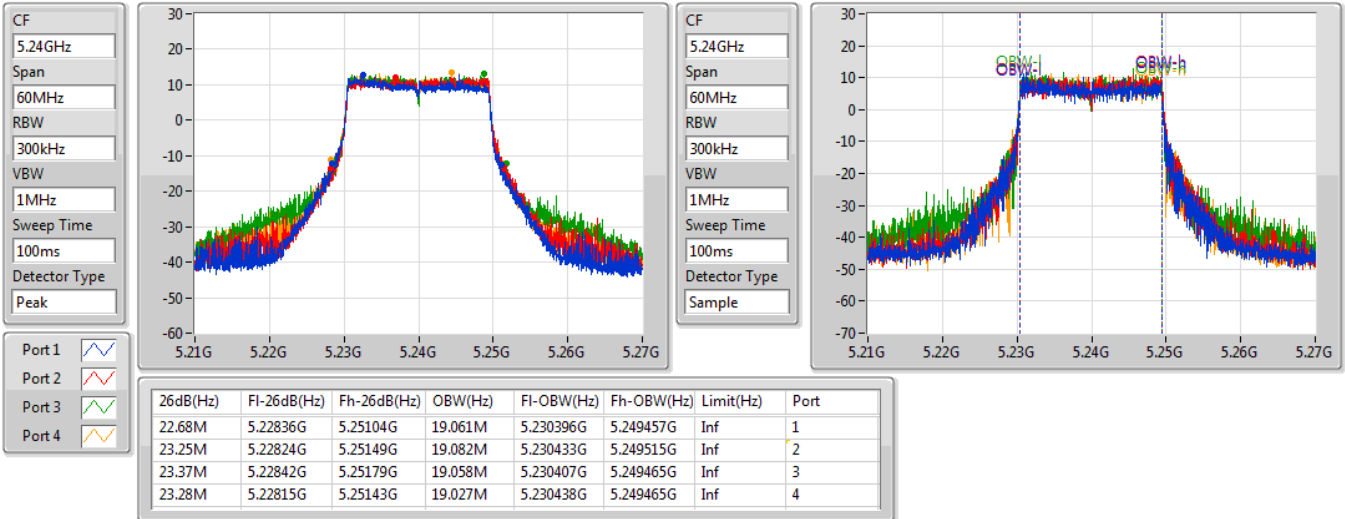

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5200MHz

16/12/2020

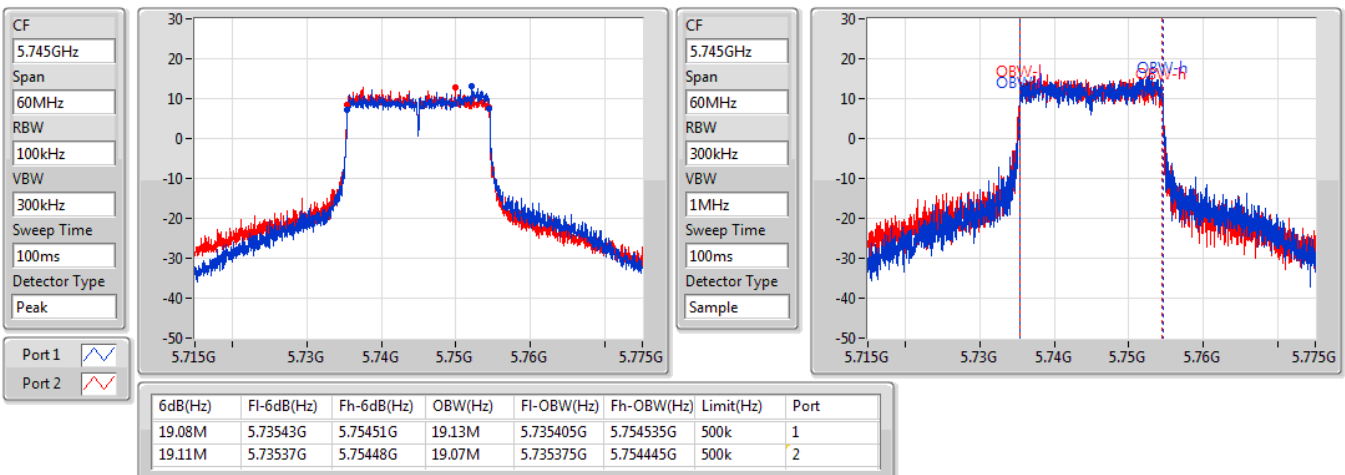


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5240MHz

16/12/2020

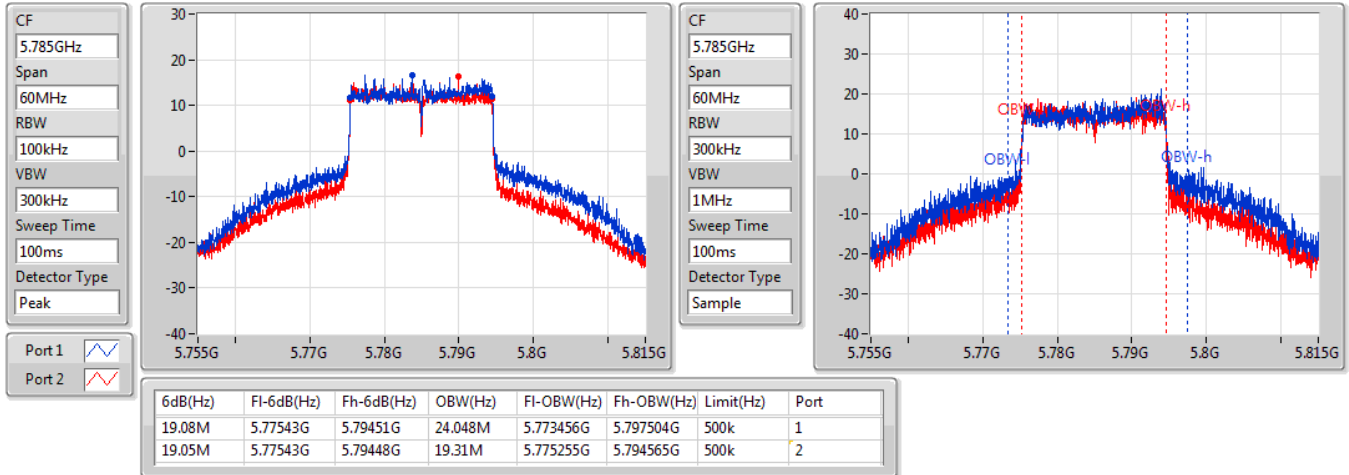

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5745MHz

15/12/2020

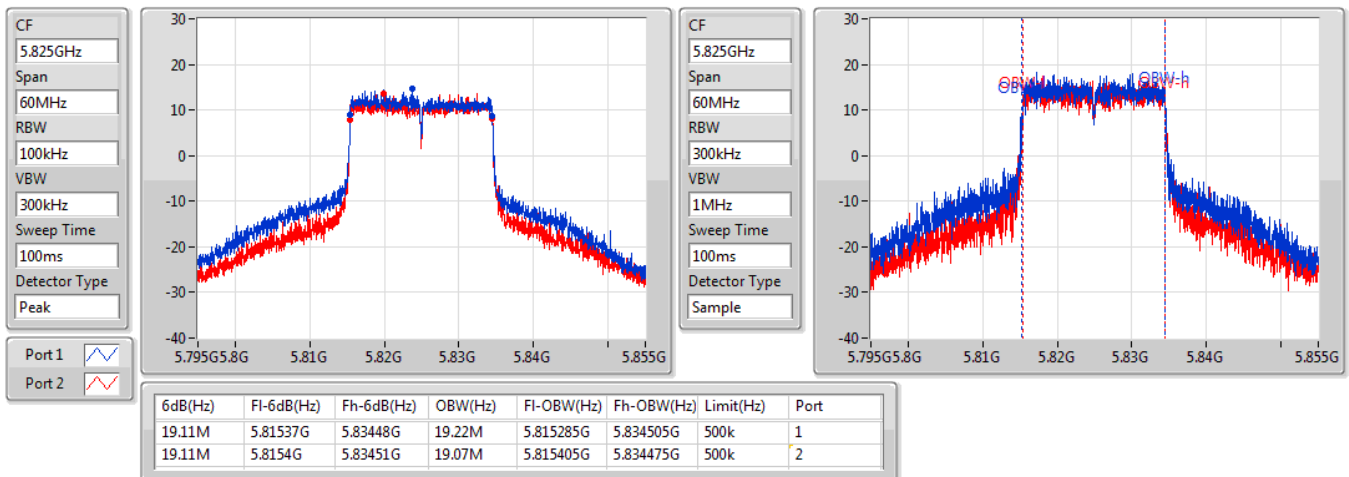


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5785MHz

15/12/2020

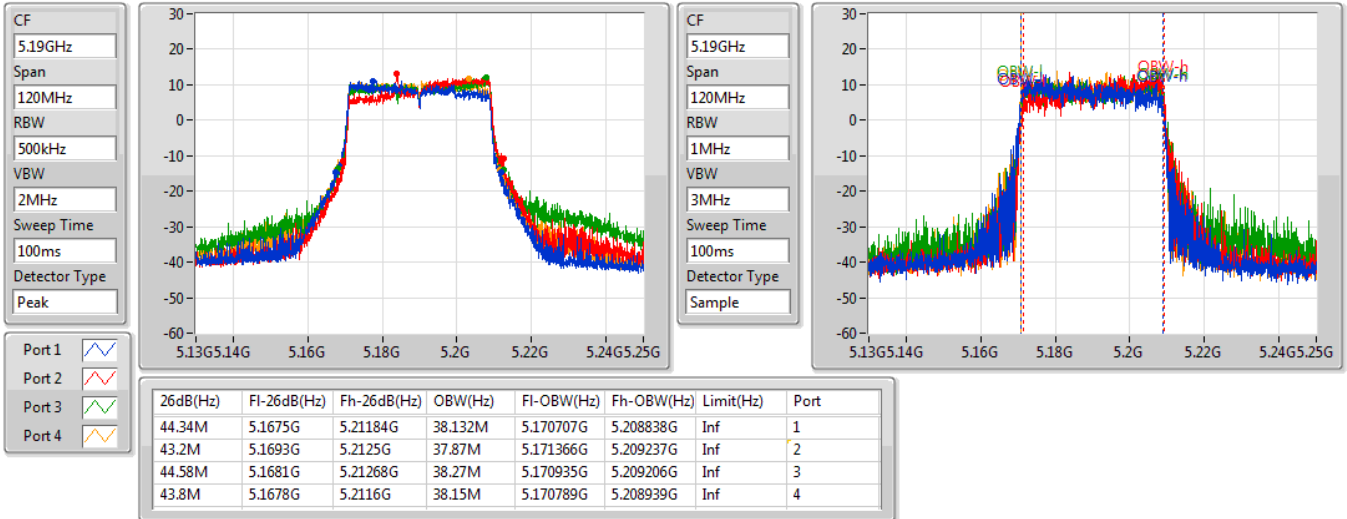

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5825MHz

15/12/2020

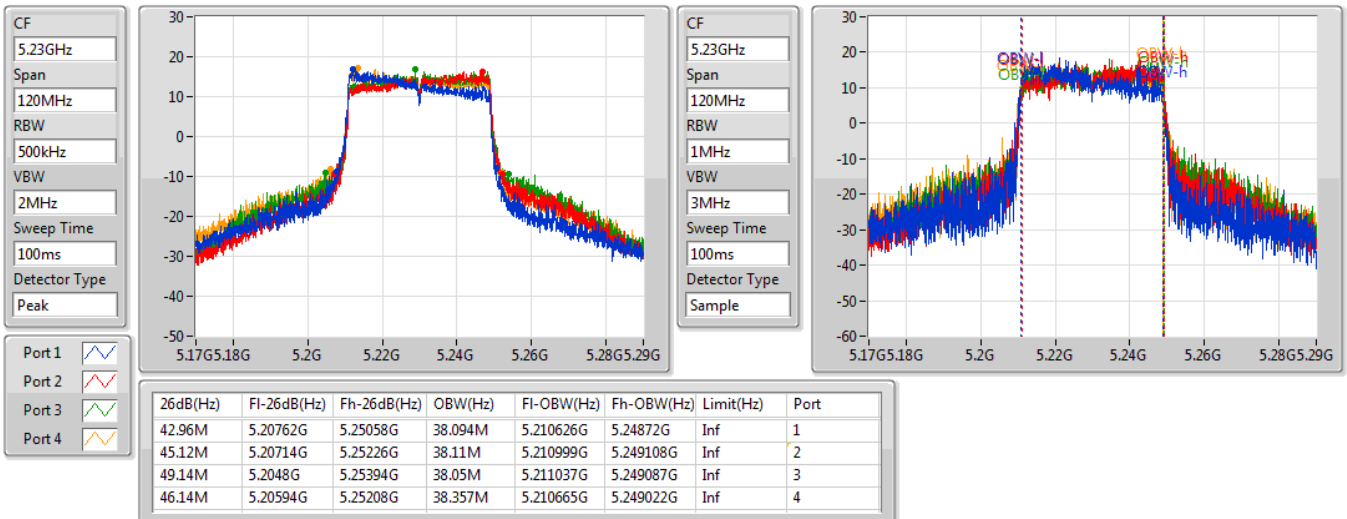


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5190MHz

16/12/2020

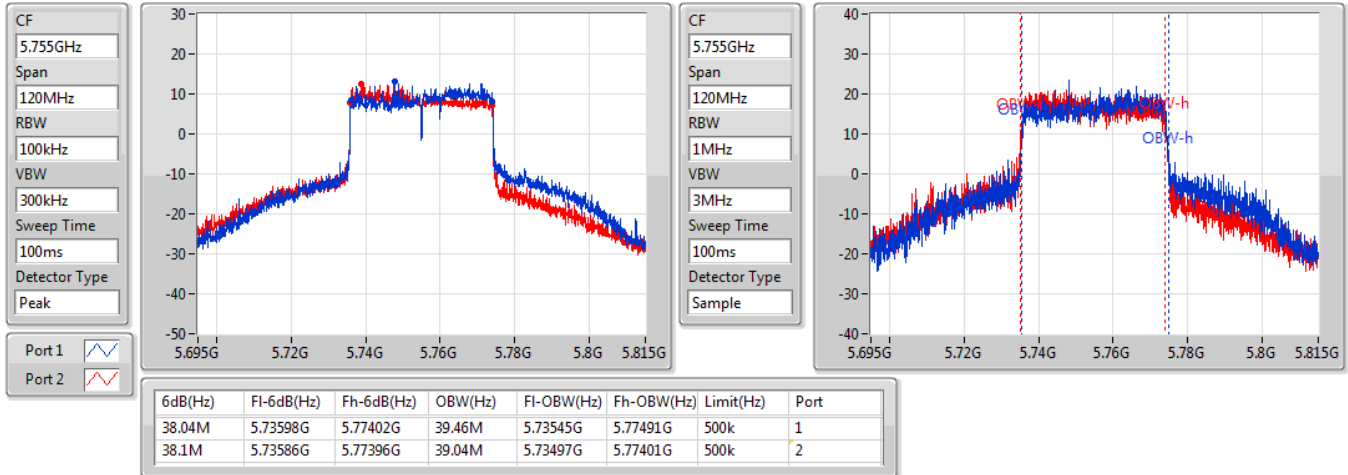

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5230MHz

16/12/2020

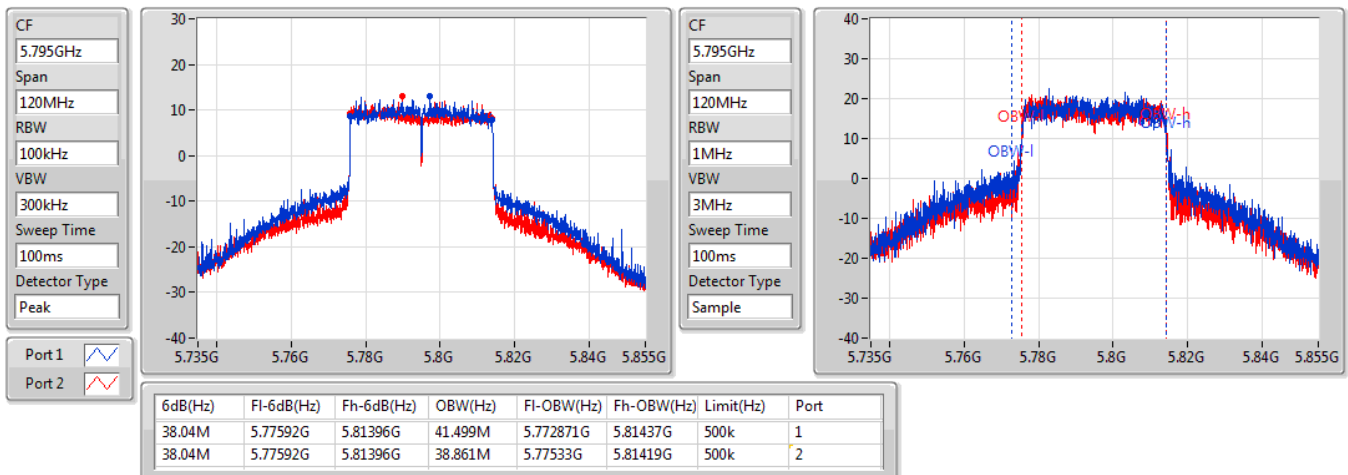


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5755MHz

15/12/2020

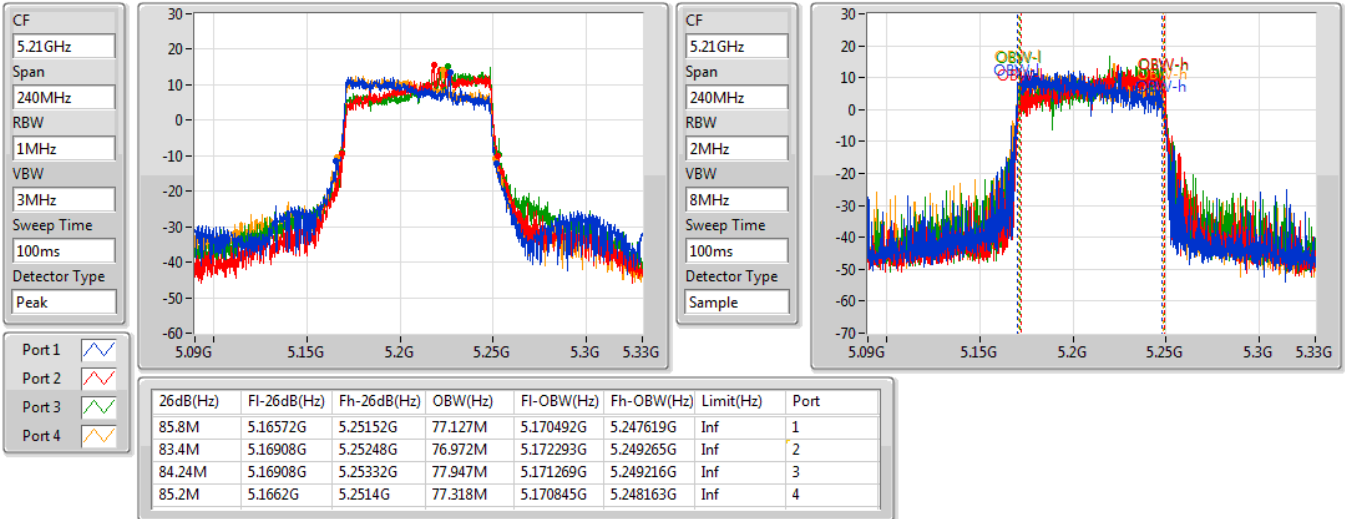

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5795MHz

15/12/2020

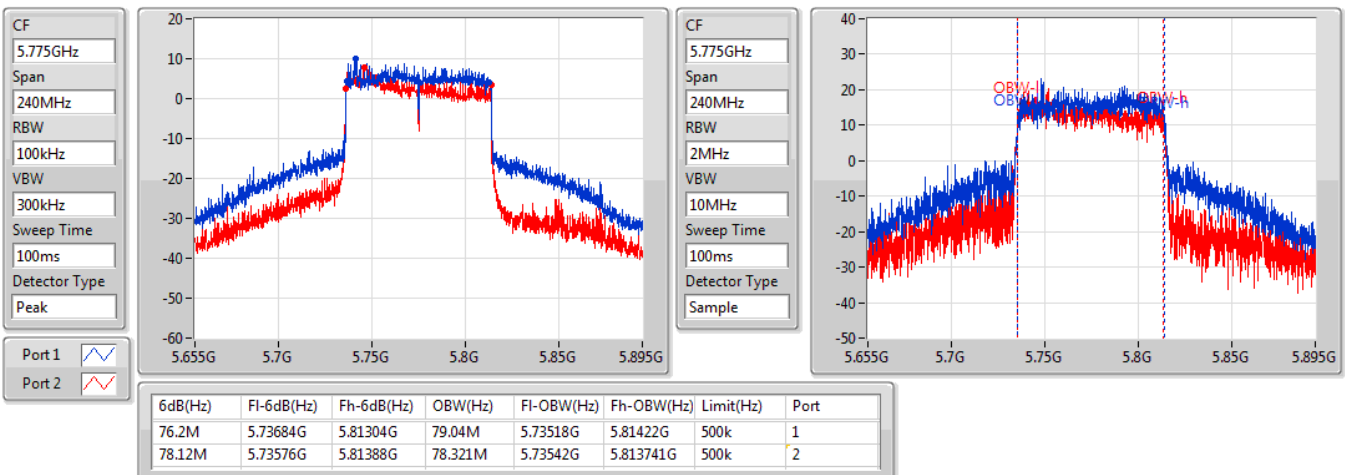


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5210MHz

16/12/2020


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5775MHz

15/12/2020



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.97	0.99312	33.43	2.20293
802.11ac VHT20_Nss1,(MCS0)_4TX	29.95	0.98855	33.41	2.19280
802.11ac VHT40_Nss1,(MCS0)_4TX	28.88	0.77268	32.34	1.71396
802.11ac VHT80_Nss1,(MCS0)_4TX	24.50	0.28184	27.96	0.62517
802.11ax HEW20_Nss1,(MCS0)_4TX	29.97	0.99312	33.43	2.20293
802.11ax HEW40_Nss1,(MCS0)_4TX	28.96	0.78705	32.42	1.74582
802.11ax HEW80_Nss1,(MCS0)_4TX	24.84	0.30479	28.30	0.67608
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	29.75	0.94406	33.85	2.42661
802.11ac VHT20_Nss1,(MCS0)_2TX	29.53	0.89743	33.63	2.30675
802.11ac VHT40_Nss1,(MCS0)_2TX	29.42	0.87498	33.52	2.24905
802.11ac VHT80_Nss1,(MCS0)_2TX	23.84	0.24210	27.94	0.62230
802.11ax HEW20_Nss1,(MCS0)_2TX	29.66	0.92470	33.76	2.37684
802.11ax HEW40_Nss1,(MCS0)_2TX	29.52	0.89536	33.62	2.30144
802.11ax HEW80_Nss1,(MCS0)_2TX	24.13	0.25882	28.23	0.66527



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.46	22.96	23.08	23.18	23.04	29.09	30.00	32.55	36.00
5200MHz	Pass	3.46	23.77	23.89	24.24	23.88	29.97	30.00	33.43	36.00
5240MHz	Pass	3.46	23.81	23.56	23.90	23.54	29.73	30.00	33.19	36.00
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	4.10	25.90	27.45			29.75	30.00	33.85	36.00
5785MHz	Pass	4.10	25.82	27.06			29.49	30.00	33.59	36.00
5825MHz	Pass	4.10	25.91	27.27			29.65	30.00	33.75	36.00
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.46	21.96	22.00	22.13	22.03	28.05	30.00	31.51	36.00
5200MHz	Pass	3.46	23.83	23.79	24.26	23.84	29.95	30.00	33.41	36.00
5240MHz	Pass	3.46	23.76	23.34	24.09	23.52	29.71	30.00	33.17	36.00
802.11ac_VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	4.10	25.78	27.01			29.45	30.00	33.55	36.00
5785MHz	Pass	4.10	25.66	26.81			29.28	30.00	33.38	36.00
5825MHz	Pass	4.10	25.73	27.19			29.53	30.00	33.63	36.00
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.46	20.23	20.19	20.64	20.51	26.42	30.00	29.88	36.00
5230MHz	Pass	3.46	22.57	22.69	23.32	22.82	28.88	30.00	32.34	36.00
802.11ac_VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	4.10	23.50	25.12			27.40	30.00	31.50	36.00
5795MHz	Pass	4.10	25.52	27.14			29.42	30.00	33.52	36.00
802.11ac_VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.46	18.14	18.44	18.96	18.33	24.50	30.00	27.96	36.00
802.11ac_VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	4.10	19.78	21.67			23.84	30.00	27.94	36.00
802.11ax_HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.46	21.96	22.39	22.42	22.17	28.26	30.00	31.72	36.00
5200MHz	Pass	3.46	23.73	23.92	24.26	23.87	29.97	30.00	33.43	36.00
5240MHz	Pass	3.46	23.72	23.71	23.93	23.55	29.75	30.00	33.21	36.00
802.11ax_HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	4.10	25.79	27.37			29.66	30.00	33.76	36.00
5785MHz	Pass	4.10	25.64	27.03			29.40	30.00	33.50	36.00
5825MHz	Pass	4.10	25.82	27.29			29.63	30.00	33.73	36.00
802.11ax_HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.46	20.35	20.41	20.69	20.49	26.51	30.00	29.97	36.00
5230MHz	Pass	3.46	22.61	22.84	23.39	22.89	28.96	30.00	32.42	36.00
802.11ax_HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	4.10	23.59	25.32			27.55	30.00	31.65	36.00
5795MHz	Pass	4.10	25.65	27.22			29.52	30.00	33.62	36.00
802.11ax_HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.46	18.52	18.72	19.23	18.78	24.84	30.00	28.30	36.00
802.11ax_HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	4.10	20.18	21.90			24.13	30.00	28.23	36.00

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

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	27.43	0.55335	33.48	2.22844
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	28.24	0.66681	34.29	2.68534
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	23.28	0.21281	29.33	0.85704
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	27.75	0.59566	33.80	2.39883
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	28.79	0.75683	34.84	3.04789
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.97	0.24946	30.02	1.00462
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	25.77	0.37757	31.33	1.35831
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	23.00	0.19953	28.56	0.71779
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	22.42	0.17458	27.98	0.62806
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	29.11	0.81470	34.67	2.93089
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	29.79	0.95280	35.35	3.42768
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	28.40	0.69183	33.96	2.48886



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	6.05	20.81	20.45	20.19	20.46	26.50	29.95	32.55	36.00
5200MHz_TnomVnom	Pass	6.05	21.51	21.55	21.24	21.35	27.43	29.95	33.48	36.00
5240MHz_TnomVnom	Pass	6.05	19.08	18.60	19.08	19.12	25.00	29.95	31.05	36.00
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz_TnomVnom	Pass	5.56	20.60	22.39			24.60	30.00	30.16	36.00
5785MHz_TnomVnom	Pass	5.56	20.69	22.19			24.51	30.00	30.07	36.00
5825MHz_TnomVnom	Pass	5.56	22.19	23.26			25.77	30.00	31.33	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	6.05	17.75	18.01	17.49	18.02	23.84	29.95	29.89	36.00
5230MHz_TnomVnom	Pass	6.05	22.03	22.38	22.00	22.46	28.24	29.95	34.29	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz_TnomVnom	Pass	5.56	18.84	20.38			22.69	30.00	28.25	36.00
5795MHz_TnomVnom	Pass	5.56	19.34	20.55			23.00	30.00	28.56	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	6.05	17.38	16.79	17.14	17.69	23.28	29.95	29.33	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz_TnomVnom	Pass	5.56	18.73	19.99			22.42	30.00	27.98	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	6.05	20.85	20.75	20.64	20.86	26.80	29.95	32.85	36.00
5200MHz_TnomVnom	Pass	6.05	21.26	21.39	21.70	22.46	27.75	29.95	33.80	36.00
5240MHz_TnomVnom	Pass	6.05	18.75	19.32	19.75	19.78	25.44	29.95	31.49	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz_TnomVnom	Pass	5.56	24.93	25.16			28.06	30.00	33.62	36.00
5785MHz_TnomVnom	Pass	5.56	24.70	25.11			27.92	30.00	33.48	36.00
5825MHz_TnomVnom	Pass	5.56	26.04	26.16			29.11	30.00	34.67	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	6.05	18.14	18.68	18.37	18.75	24.51	29.95	30.56	36.00
5230MHz_TnomVnom	Pass	6.05	22.40	23.13	22.54	22.98	28.79	29.95	34.84	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz_TnomVnom	Pass	5.56	26.85	26.71			29.79	30.00	35.35	36.00
5795MHz_TnomVnom	Pass	5.56	26.34	26.99			29.69	30.00	35.25	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	6.05	17.54	18.12	18.00	18.13	23.97	29.95	30.02	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz_TnomVnom	Pass	5.56	26.33	24.18			28.40	30.00	33.96	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)_4TX	16.55	22.60
802.11ac VHT20_Nss1,(MCS0)_4TX	16.58	22.63
802.11ac VHT40_Nss1,(MCS0)_4TX	12.74	18.79
802.11ac VHT80_Nss1,(MCS0)_4TX	5.30	11.35
802.11ax HEW20_Nss1,(MCS0)_4TX	16.34	22.39
802.11ax HEW40_Nss1,(MCS0)_4TX	12.72	18.77
802.11ax HEW80_Nss1,(MCS0)_4TX	5.34	11.39
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	15.30	20.86
802.11ac VHT20_Nss1,(MCS0)_2TX	14.93	20.49
802.11ac VHT40_Nss1,(MCS0)_2TX	11.85	17.41
802.11ac VHT80_Nss1,(MCS0)_2TX	3.65	9.21
802.11ax HEW20_Nss1,(MCS0)_2TX	14.75	20.31
802.11ax HEW40_Nss1,(MCS0)_2TX	11.77	17.33
802.11ax HEW80_Nss1,(MCS0)_2TX	3.56	9.12

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.05	9.86	9.99	10.11	10.01	15.69	16.95	21.74	23.00
5200MHz	Pass	6.05	10.56	10.90	11.06	10.89	16.55	16.95	22.60	23.00
5240MHz	Pass	6.05	10.92	10.83	11.02	10.83	16.39	16.95	22.44	23.00
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	5.56	11.95	12.82			15.23	30.00	20.79	36.00
5785MHz	Pass	5.56	11.99	12.40			15.09	30.00	20.65	36.00
5825MHz	Pass	5.56	12.09	12.56			15.30	30.00	20.86	36.00
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.05	8.87	8.70	9.29	9.01	14.82	16.95	20.87	23.00
5200MHz	Pass	6.05	10.50	10.47	11.40	10.63	16.50	16.95	22.55	23.00
5240MHz	Pass	6.05	11.00	10.26	11.51	10.59	16.58	16.95	22.63	23.00
802.11ac_VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	5.56	11.72	12.30			14.93	30.00	20.49	36.00
5785MHz	Pass	5.56	11.65	11.89			14.78	30.00	20.34	36.00
5825MHz	Pass	5.56	11.58	12.16			14.80	30.00	20.36	36.00
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.05	4.09	4.23	4.69	4.31	10.09	16.95	16.14	23.00
5230MHz	Pass	6.05	6.60	6.75	7.58	6.91	12.74	16.95	18.79	23.00
802.11ac_VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	5.56	6.74	7.45			9.89	30.00	15.45	36.00
5795MHz	Pass	5.56	8.55	9.21			11.85	30.00	17.41	36.00
802.11ac_VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.05	-0.55	-0.36	0.22	-0.42	5.30	16.95	11.35	23.00
802.11ac_VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	5.56	0.56	1.12			3.65	30.00	9.21	36.00
802.11ax_HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6.05	8.58	8.56	9.10	8.75	14.65	16.95	20.70	23.00
5200MHz	Pass	6.05	10.22	10.28	10.94	10.32	16.34	16.95	22.39	23.00
5240MHz	Pass	6.05	10.50	10.12	10.86	10.08	16.20	16.95	22.25	23.00
802.11ax_HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	5.56	11.68	11.96			14.75	30.00	20.31	36.00
5785MHz	Pass	5.56	11.32	11.64			14.42	30.00	19.98	36.00
5825MHz	Pass	5.56	11.35	11.98			14.66	30.00	20.22	36.00
802.11ax_HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	6.05	4.02	4.12	4.63	4.23	10.06	16.95	16.11	23.00
5230MHz	Pass	6.05	6.48	6.59	7.66	6.81	12.72	16.95	18.77	23.00
802.11ax_HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	5.56	6.66	7.36			9.85	30.00	15.41	36.00
5795MHz	Pass	5.56	8.45	9.07			11.77	30.00	17.33	36.00
802.11ax_HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	6.05	-0.60	-0.38	0.13	-0.54	5.34	16.95	11.39	23.00
802.11ax_HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	5.56	0.41	1.01			3.56	30.00	9.12	36.00

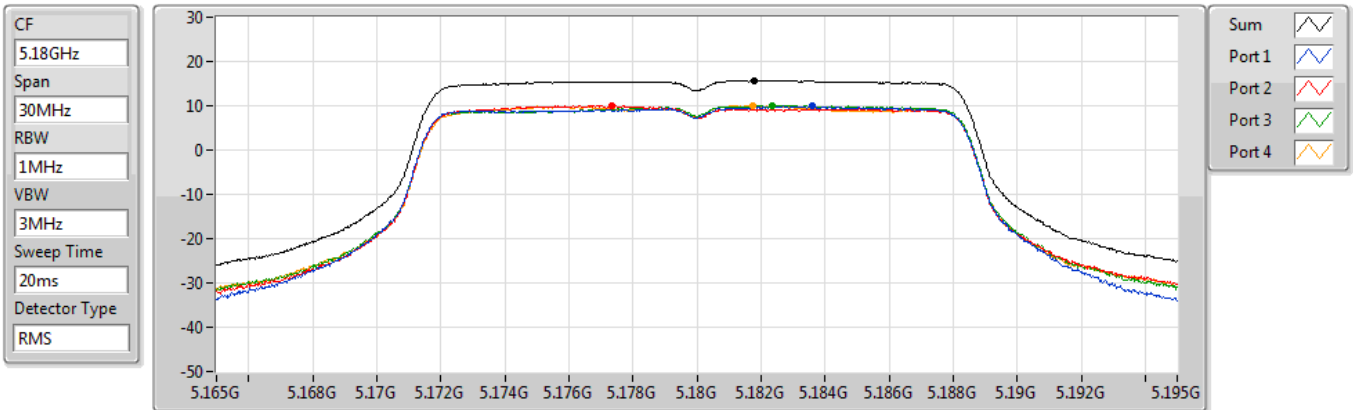
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5180MHz

14/12/2020

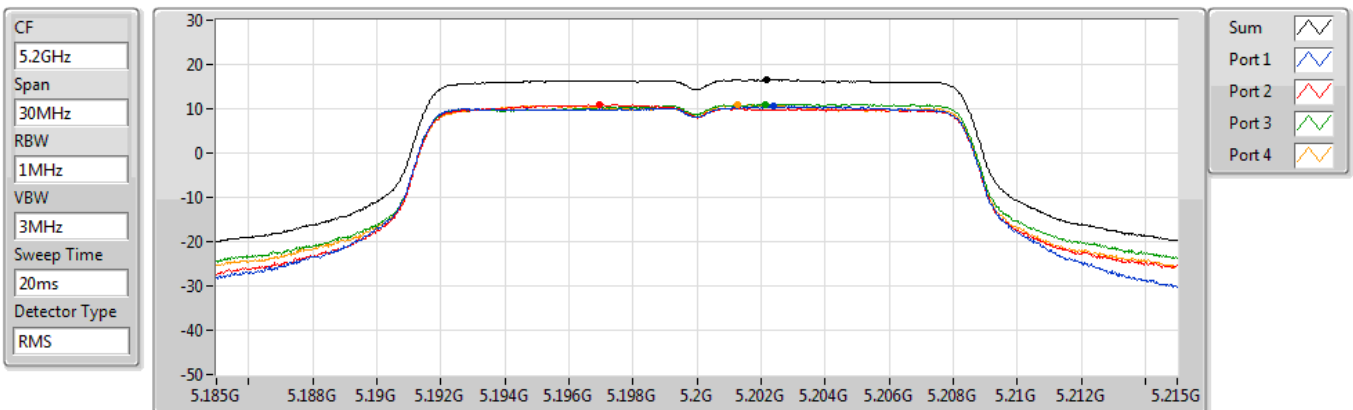


802.11a_Nss1,(6Mbps)_4TX

PSD

5200MHz

14/12/2020

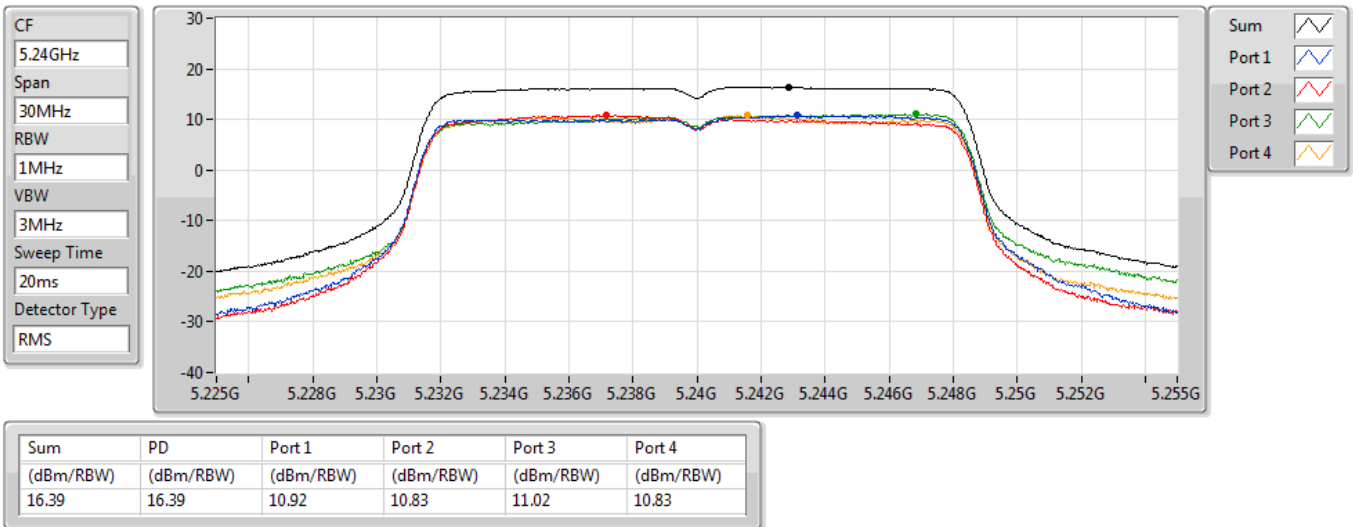


802.11a_Nss1,(6Mbps)_4TX

PSD

5240MHz

14/12/2020

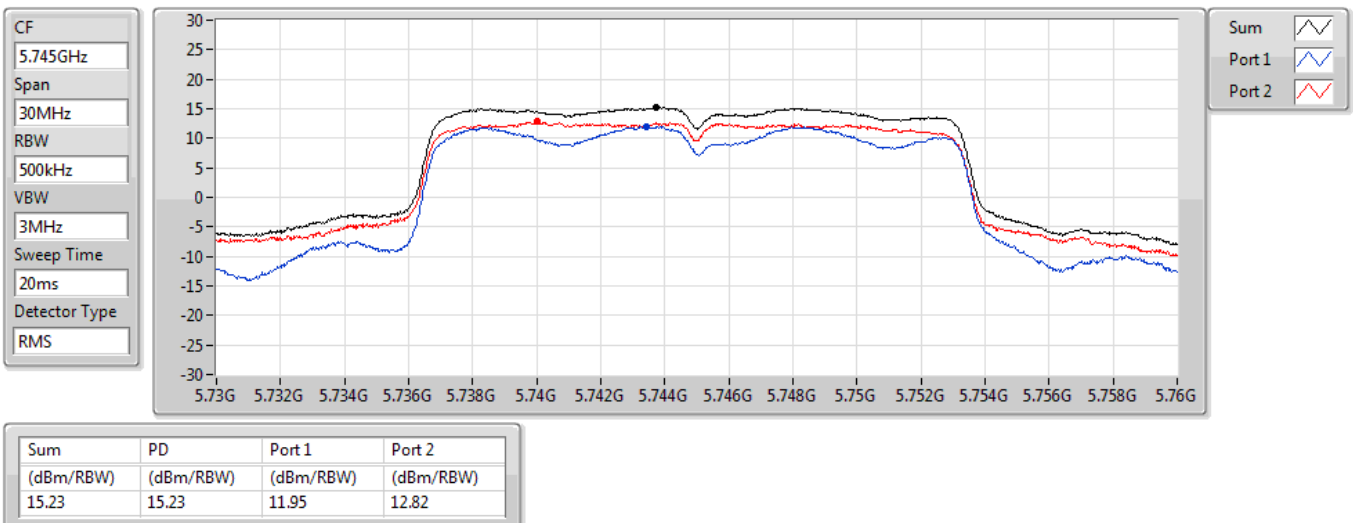


802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

14/12/2020

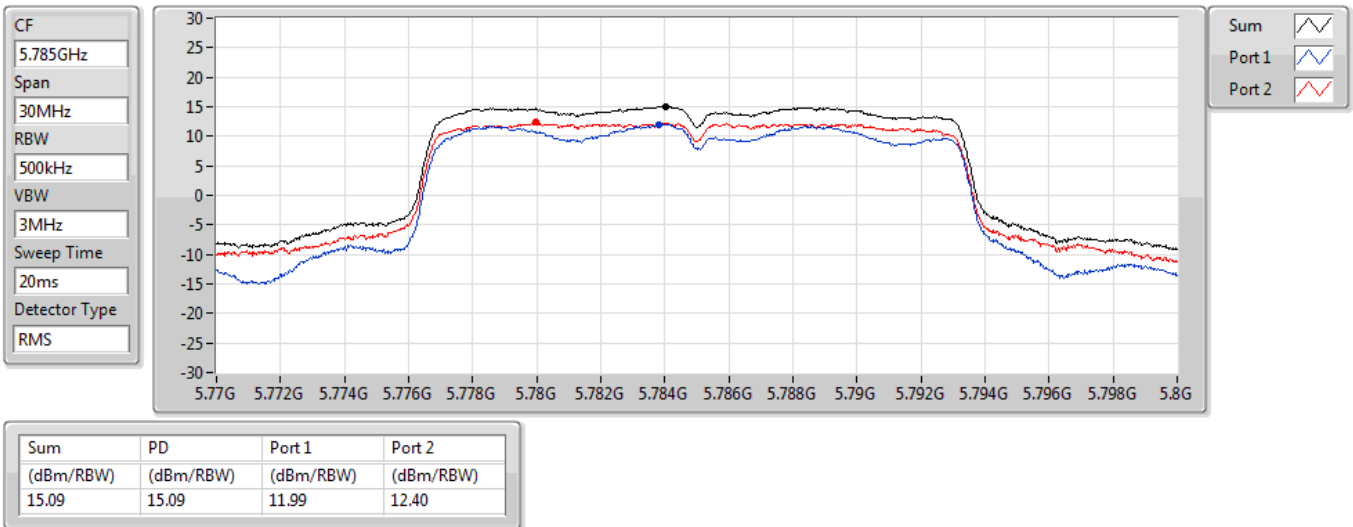


802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

14/12/2020

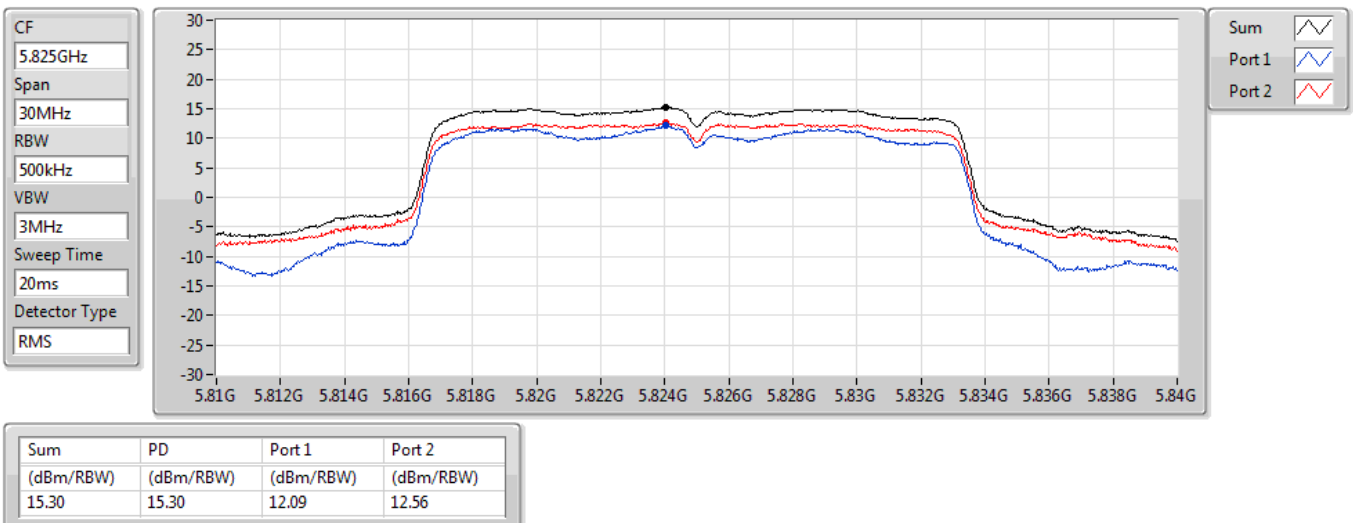


802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

14/12/2020

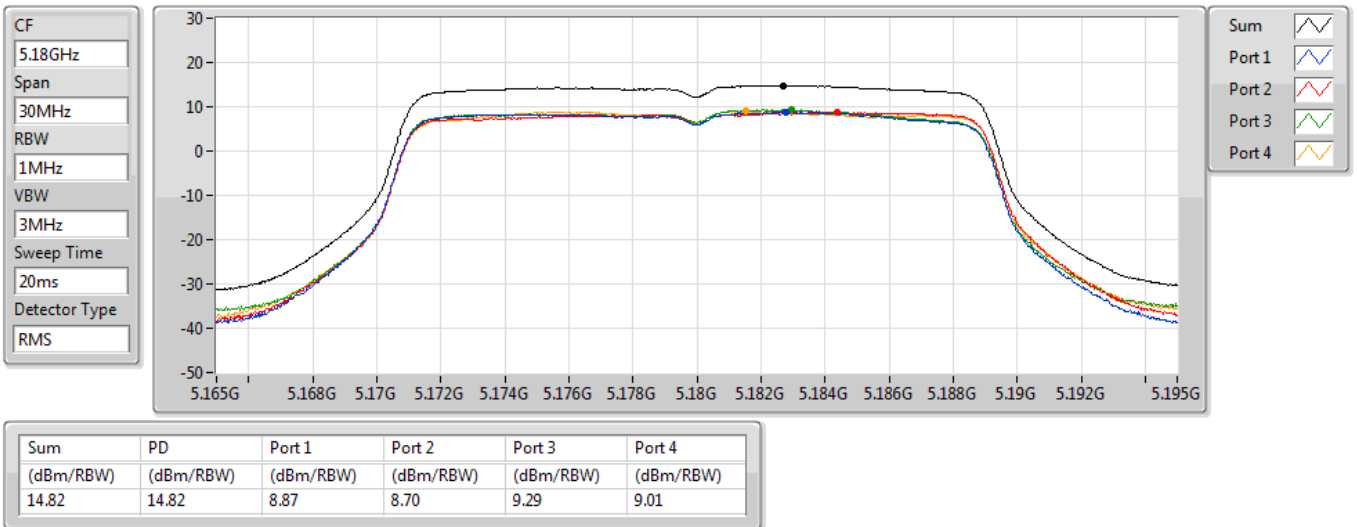


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5180MHz

14/12/2020

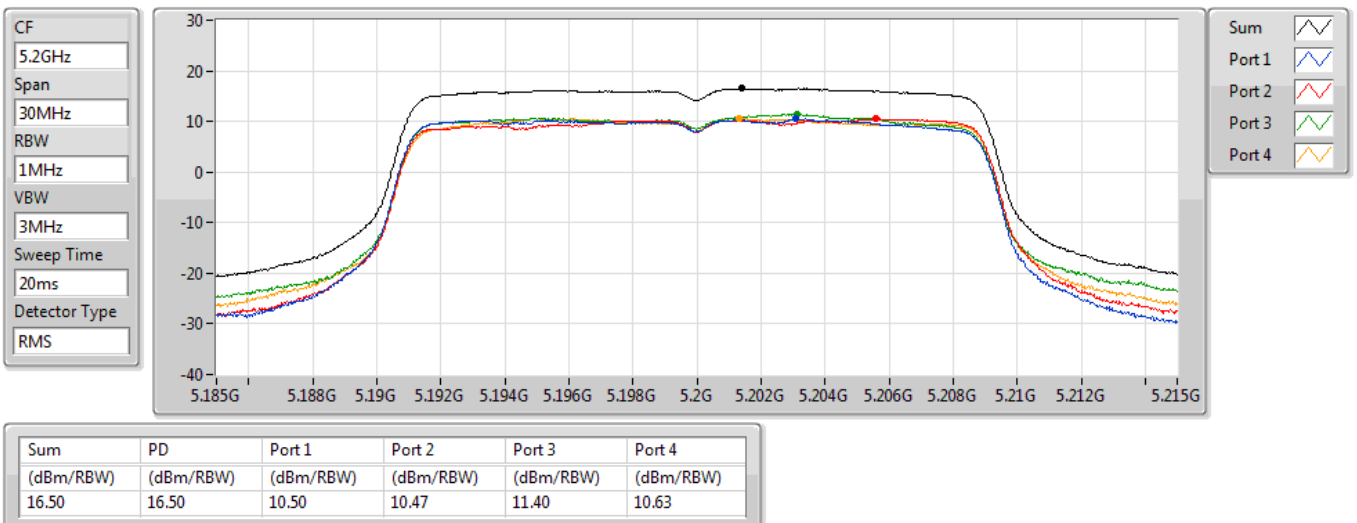


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5200MHz

14/12/2020

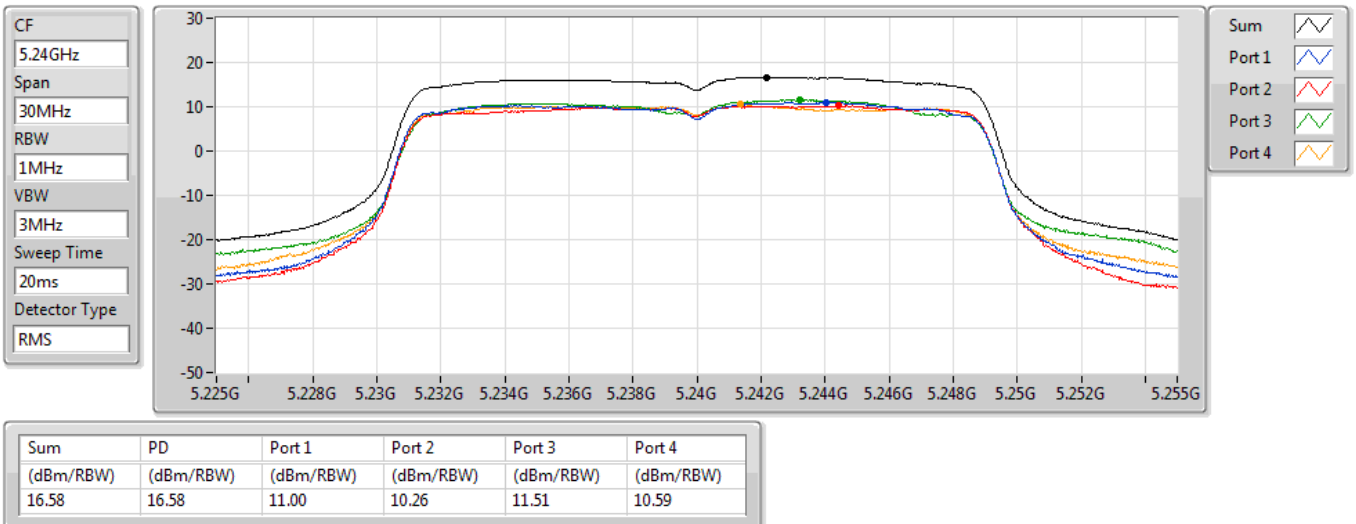


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5240MHz

14/12/2020

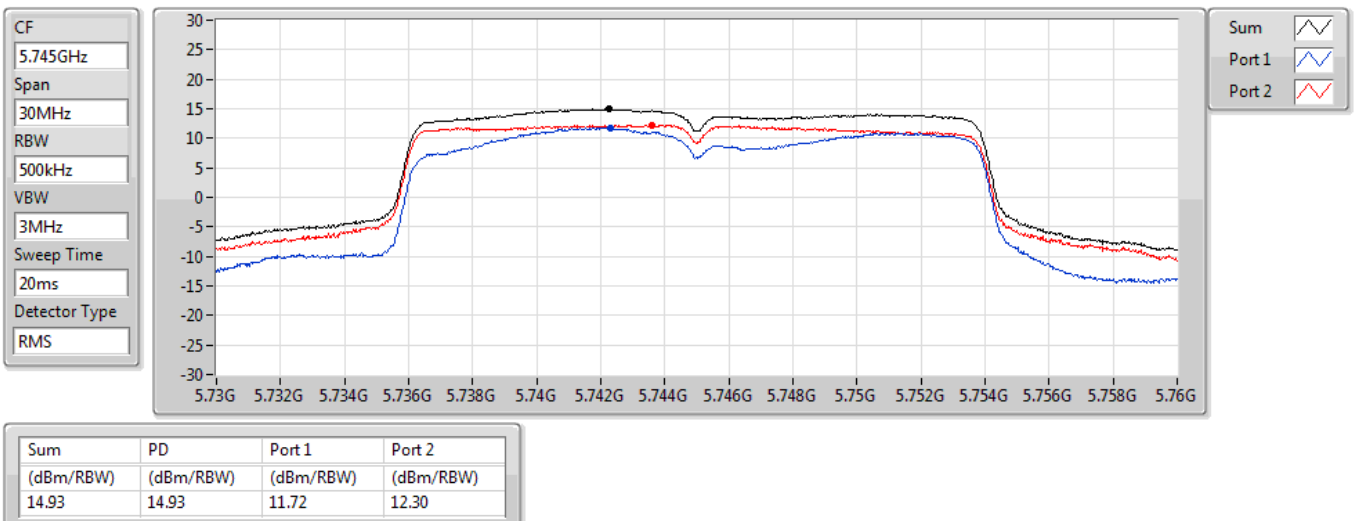


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5745MHz

14/12/2020

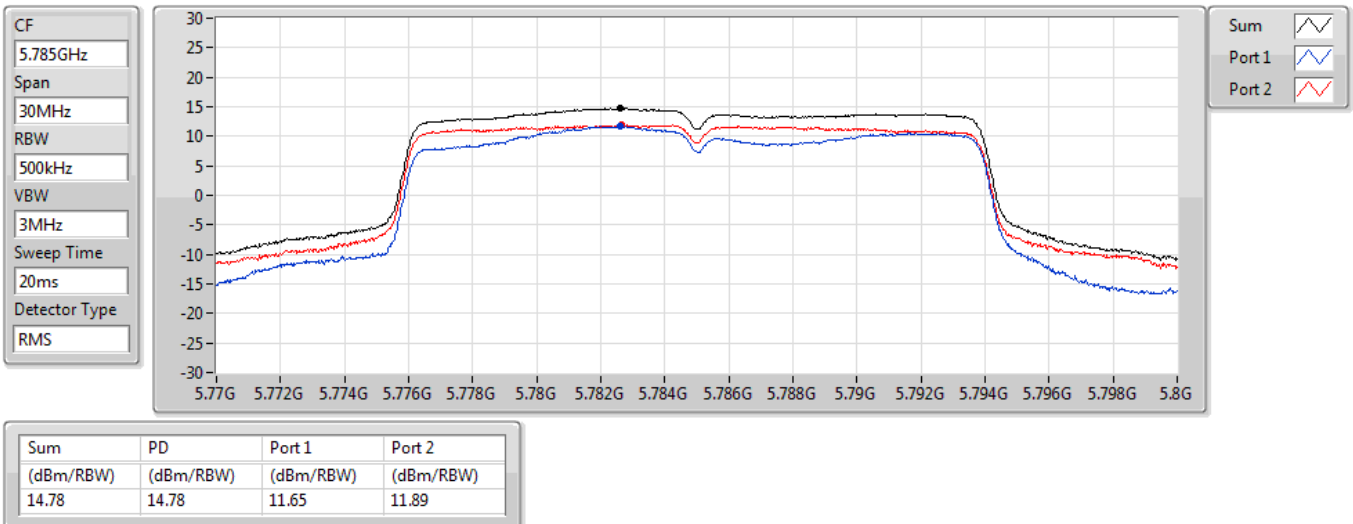


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5785MHz

14/12/2020

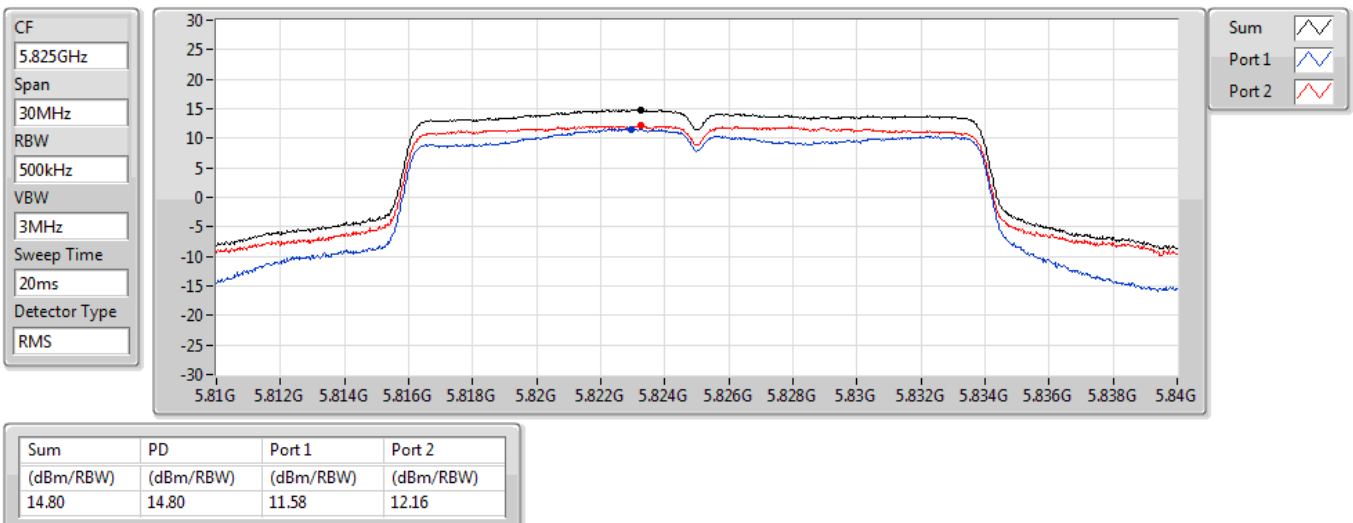


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

14/12/2020

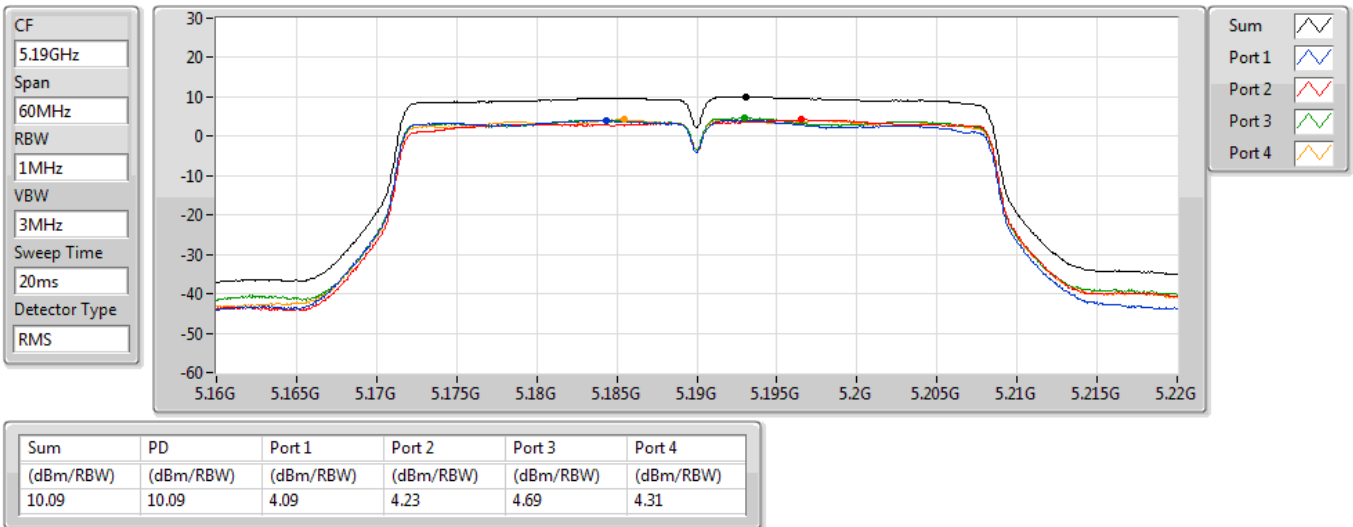


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5190MHz

14/12/2020

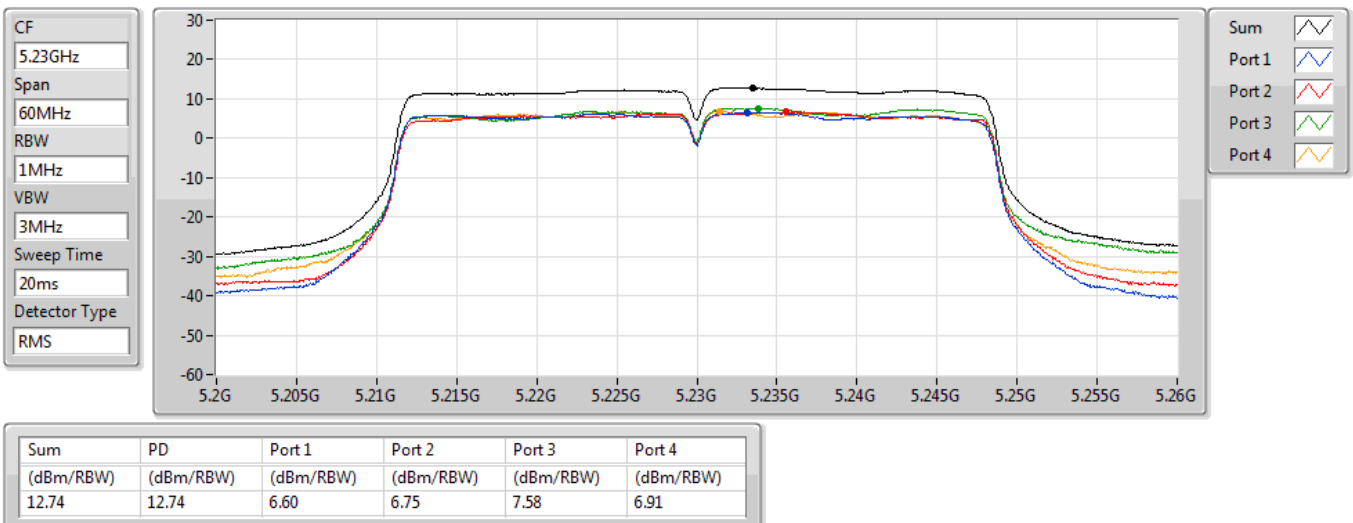


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5230MHz

14/12/2020

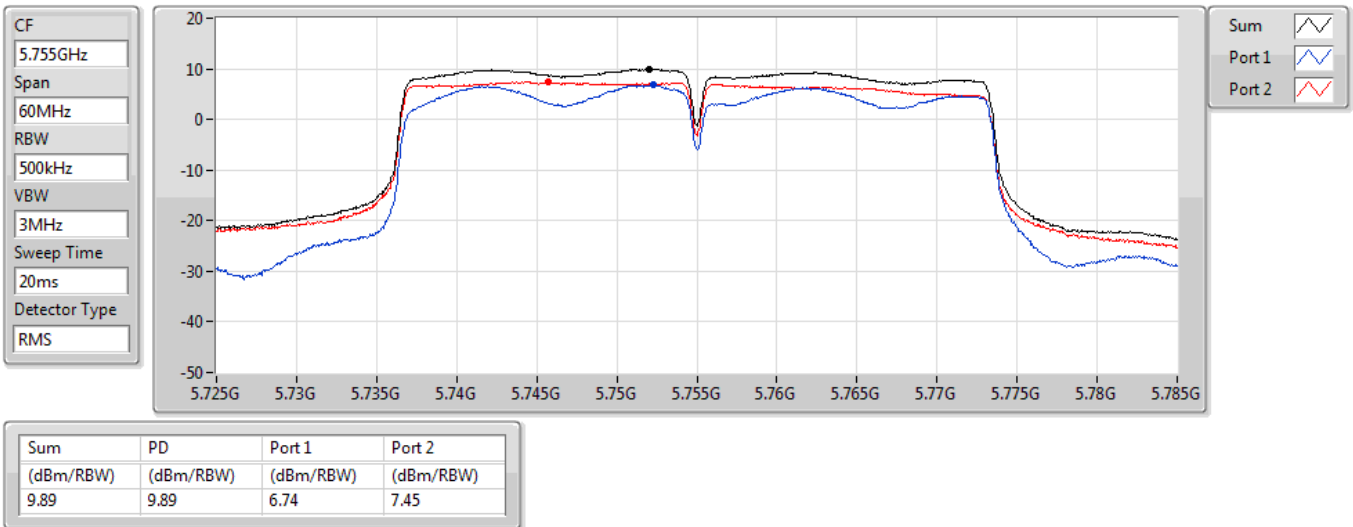


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

14/12/2020

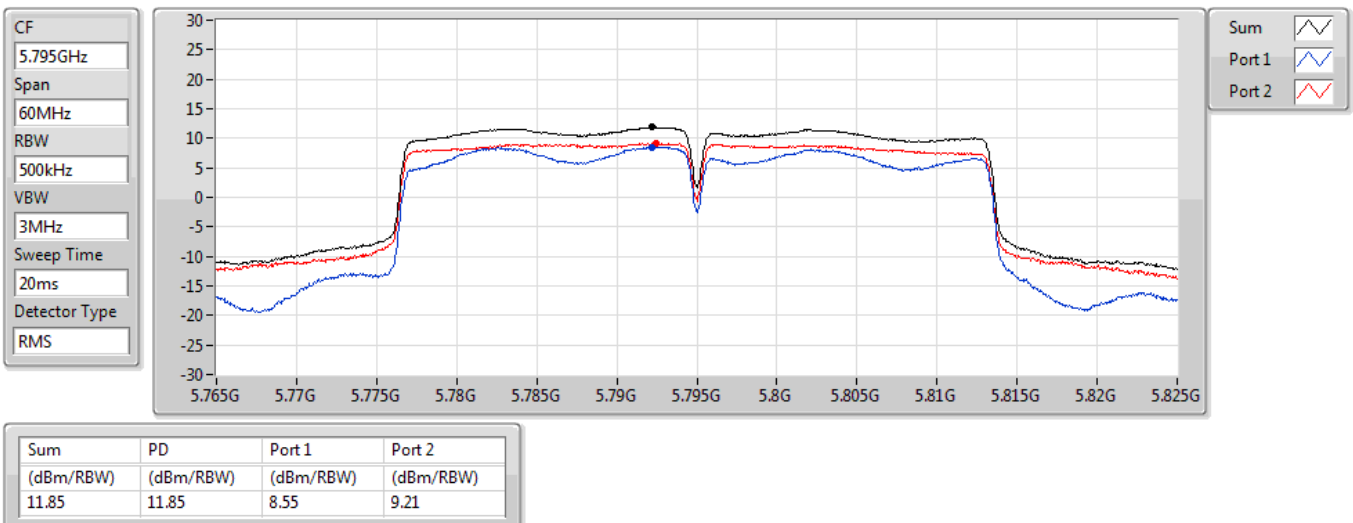


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

14/12/2020

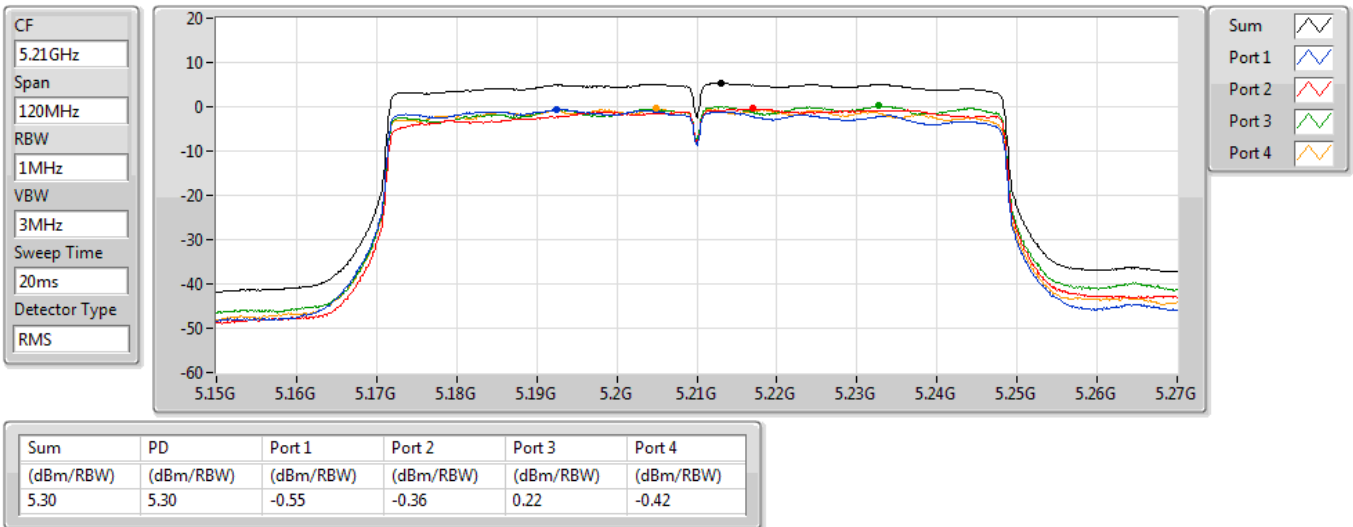


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5210MHz

14/12/2020

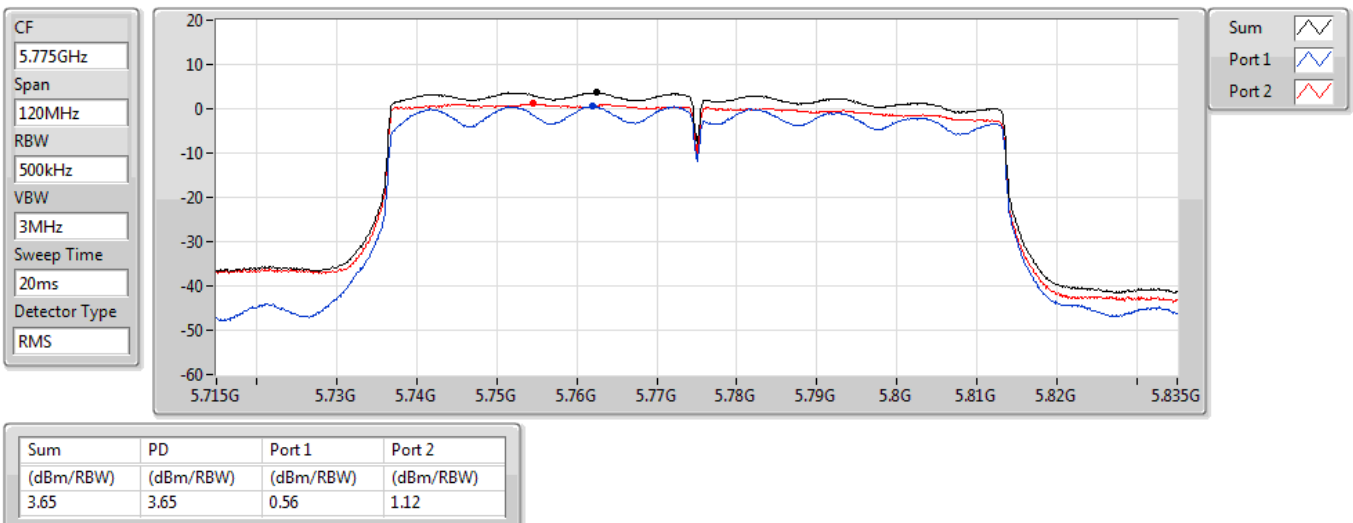


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

14/12/2020

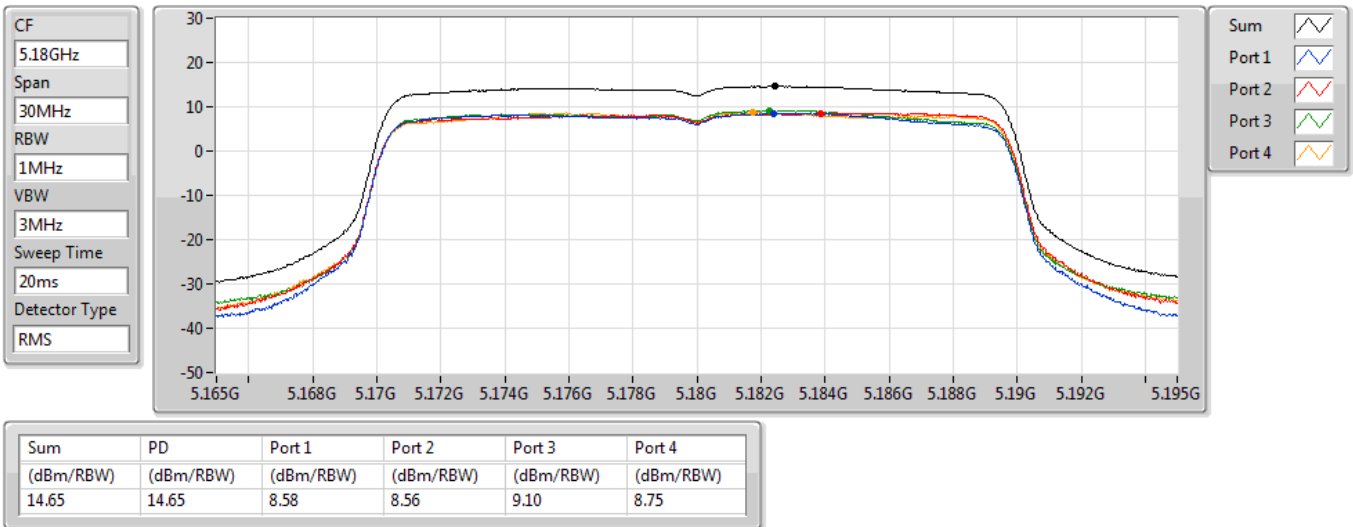


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5180MHz

14/12/2020

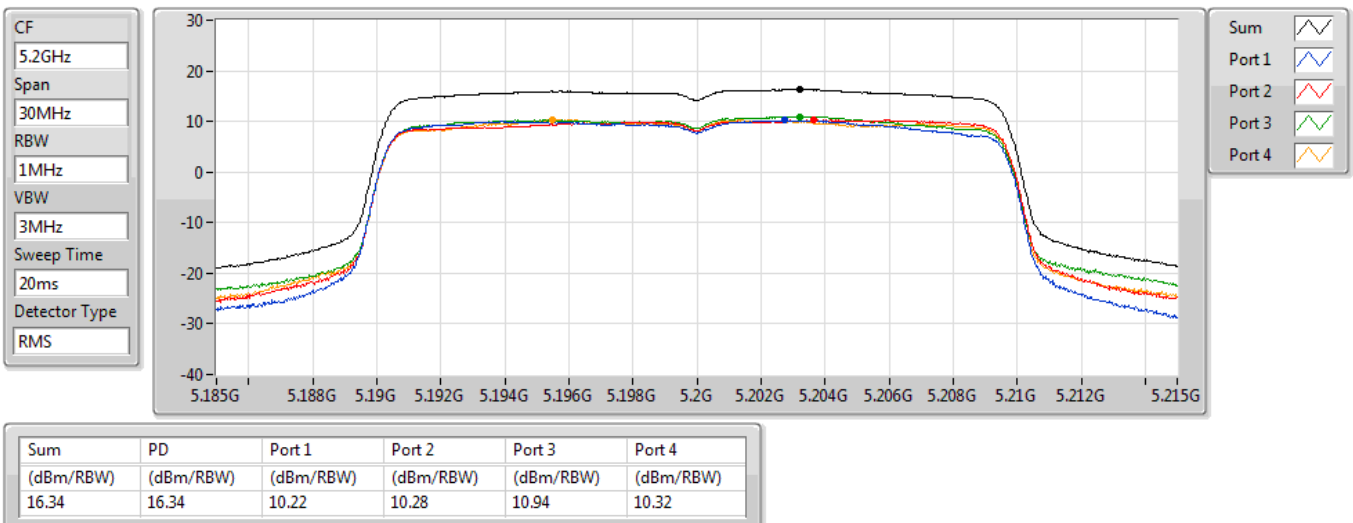


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5200MHz

14/12/2020

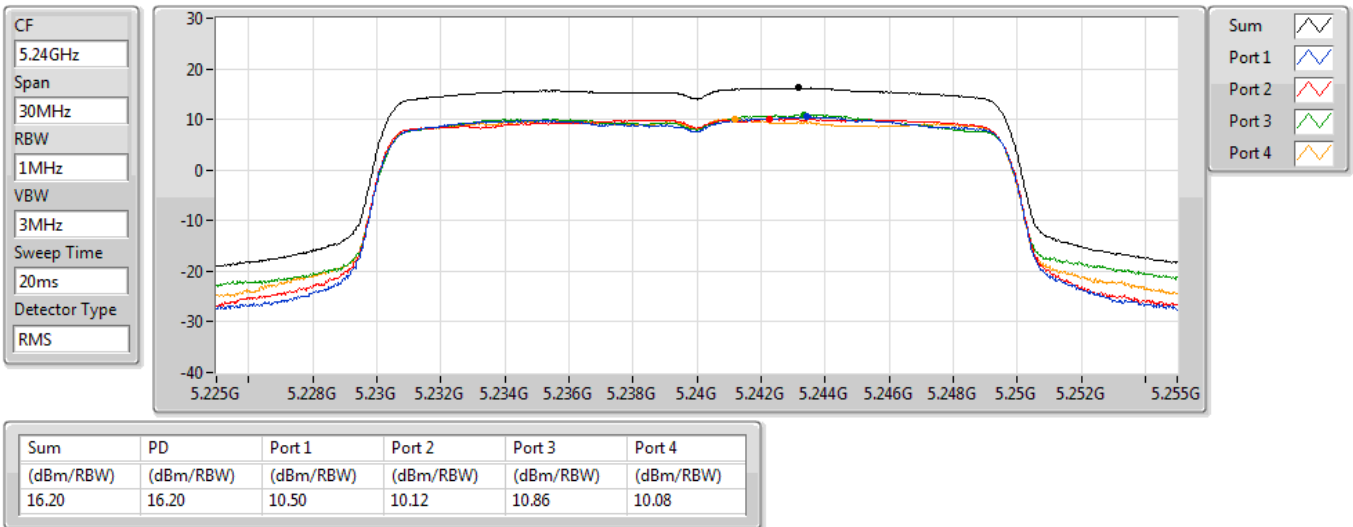


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5240MHz

14/12/2020

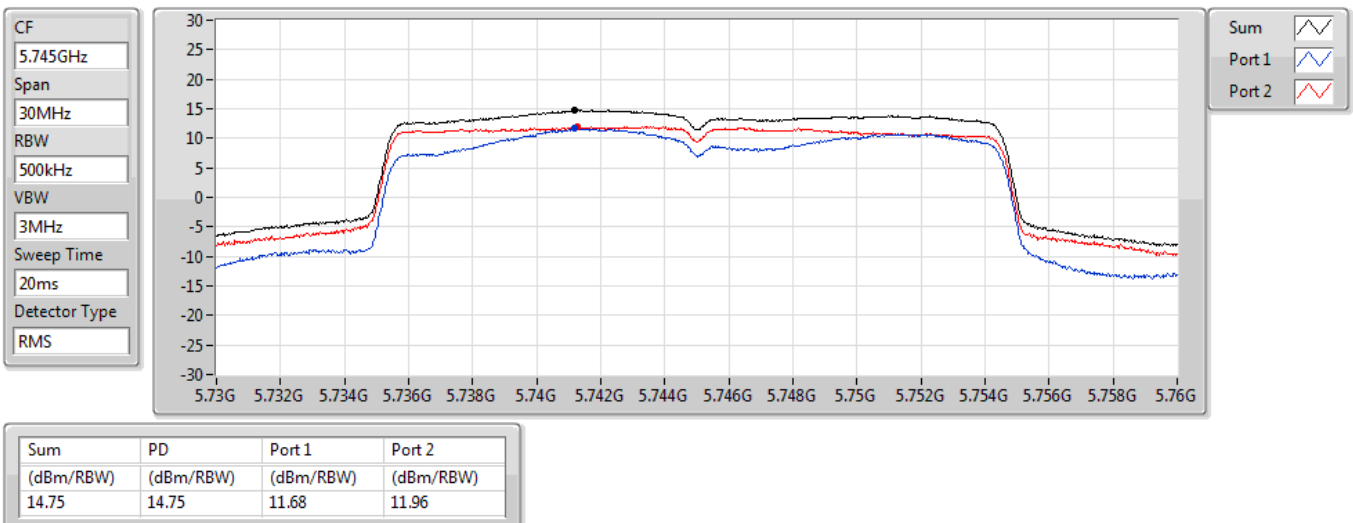


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5745MHz

14/12/2020

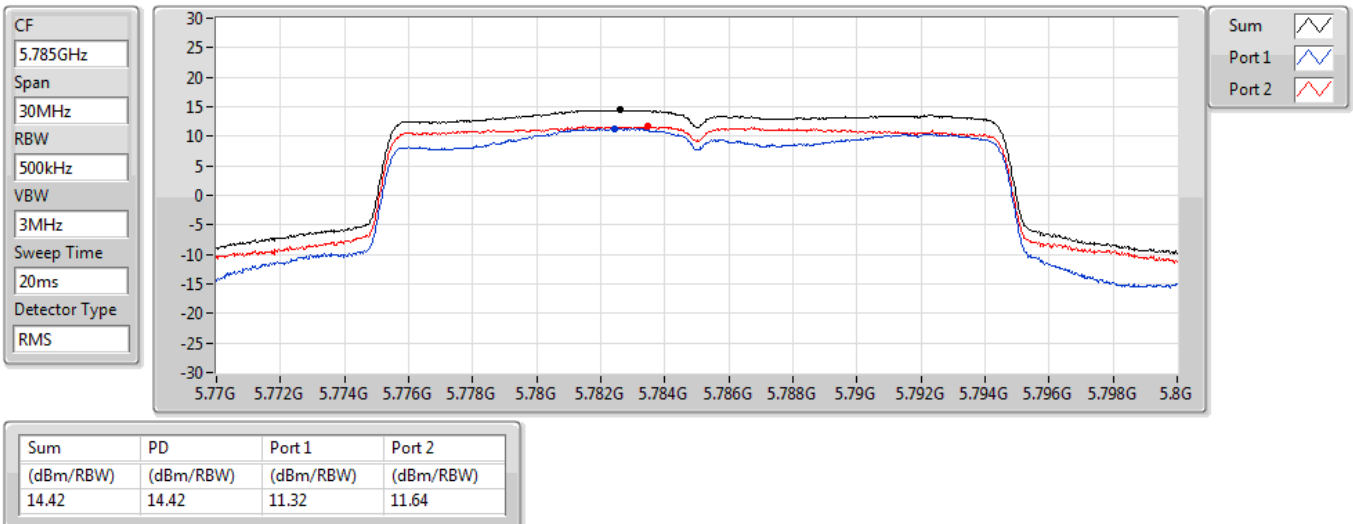


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5785MHz

14/12/2020

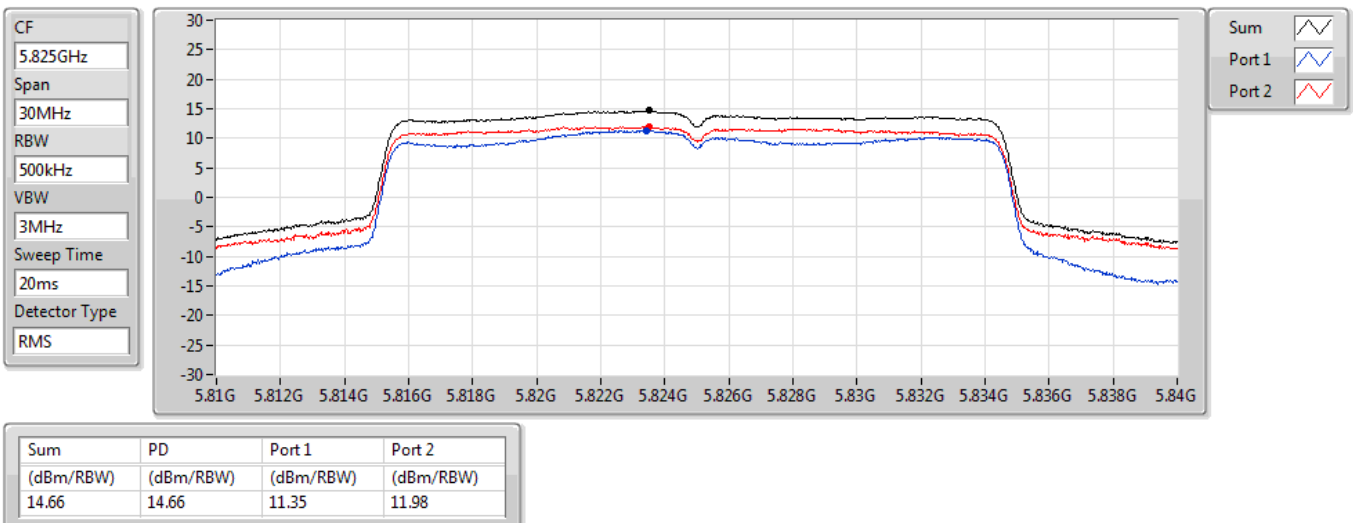


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5825MHz

14/12/2020

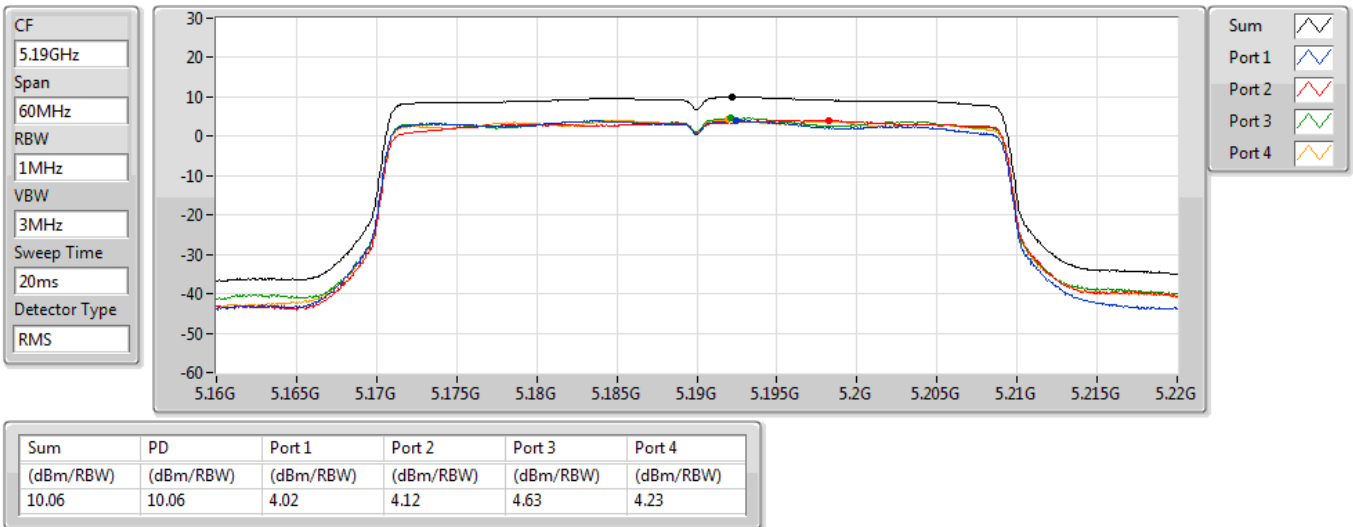


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5190MHz

14/12/2020

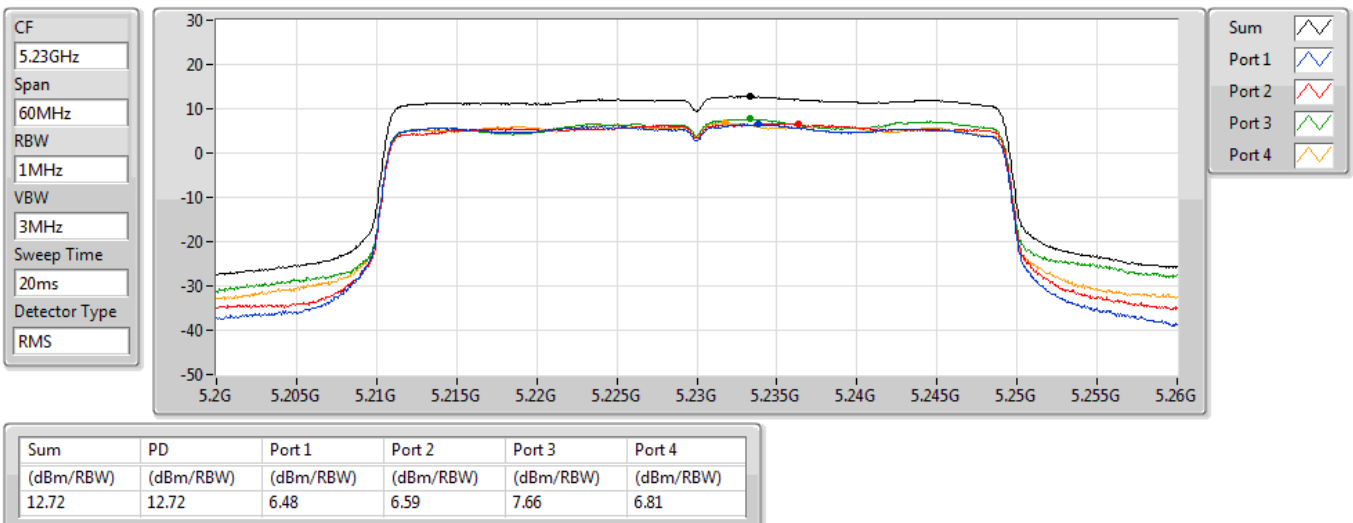


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5230MHz

14/12/2020

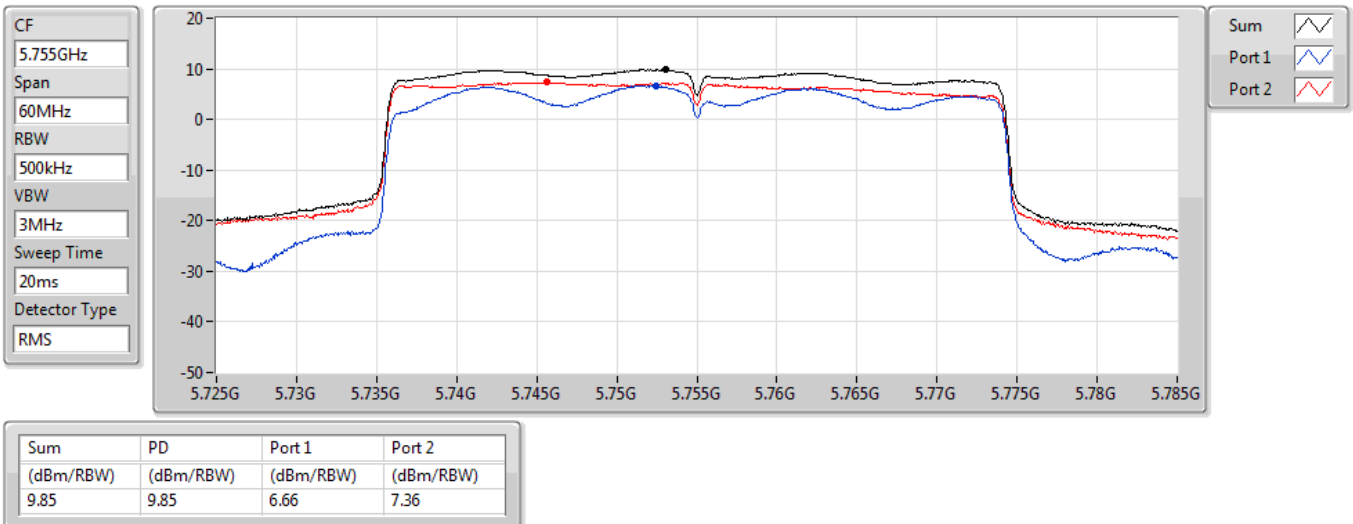


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5755MHz

14/12/2020

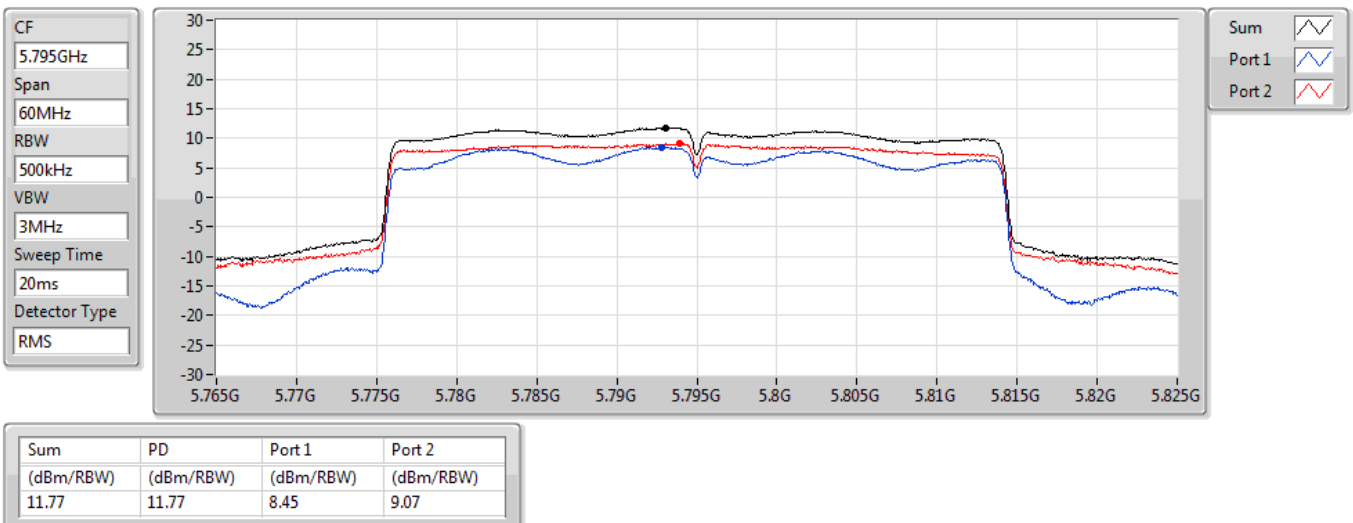


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5795MHz

14/12/2020

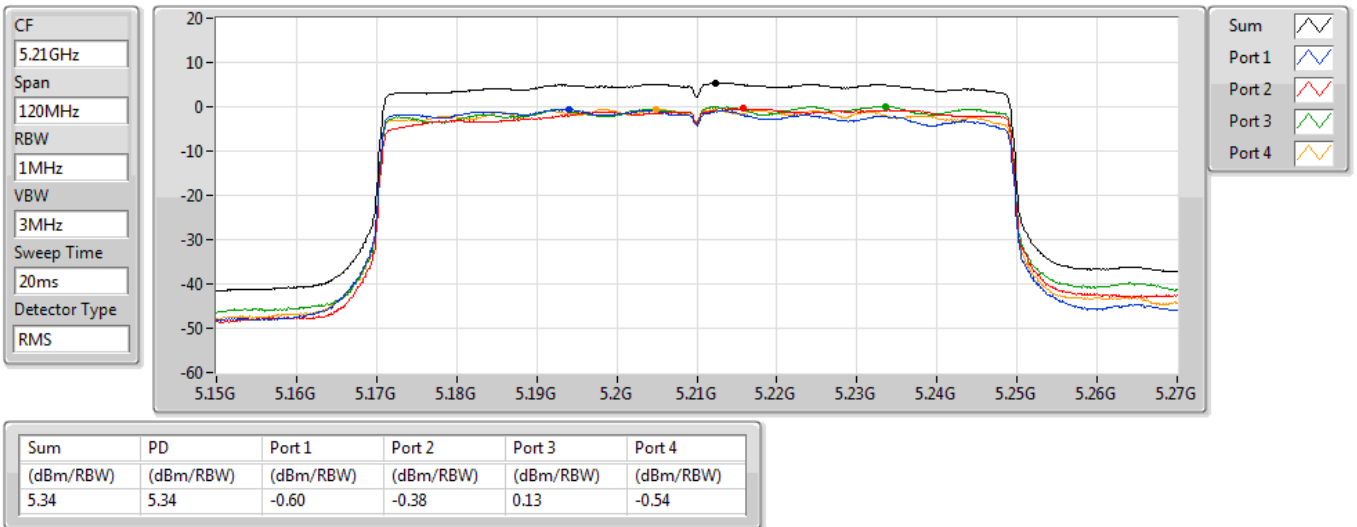


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5210MHz

14/12/2020

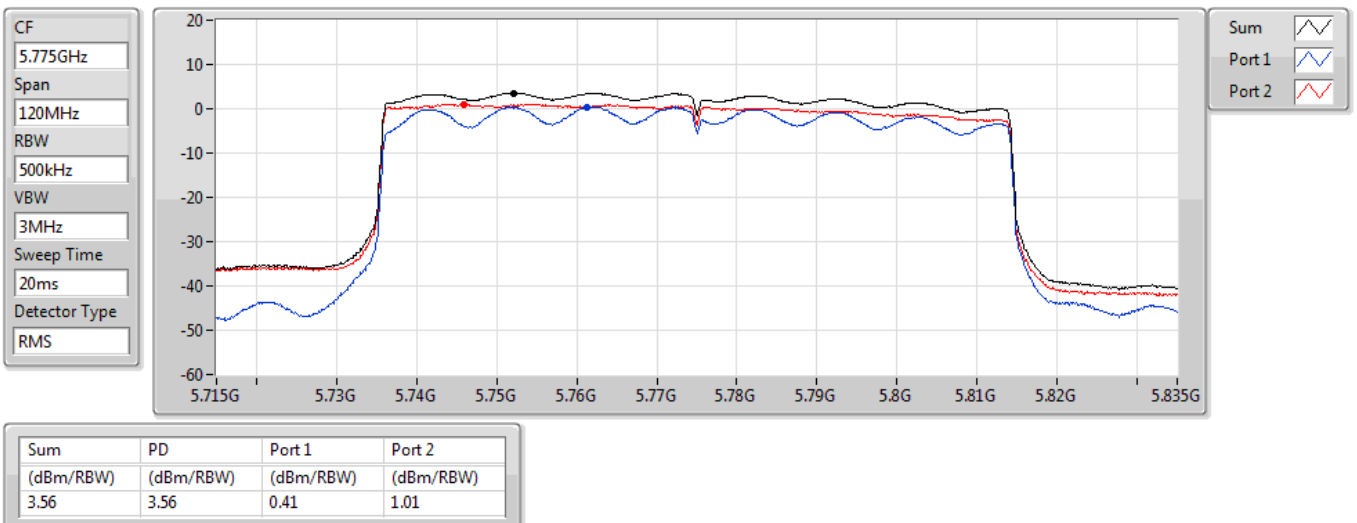


802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz

14/12/2020





Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	14.08	20.13
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	12.26	18.31
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	4.40	10.45
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	14.14	20.19
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	12.28	18.33
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	5.10	11.15
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	11.50	17.06
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	6.19	11.75
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	2.56	8.12
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	15.91	21.47
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	12.38	17.94
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	7.83	13.39

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	6.05	7.32	7.20	7.55	7.40	13.26	16.95	19.31	23.00
5200MHz_TnomVnom	Pass	6.05	8.16	8.19	8.42	8.39	14.08	16.95	20.13	23.00
5240MHz_TnomVnom	Pass	6.05	5.88	5.41	6.25	6.12	11.61	16.95	17.66	23.00
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz_TnomVnom	Pass	5.56	7.44	7.64			10.48	30.00	16.04	36.00
5785MHz_TnomVnom	Pass	5.56	7.56	7.91			10.70	30.00	16.26	36.00
5825MHz_TnomVnom	Pass	5.56	8.68	8.54			11.50	30.00	17.06	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	6.05	2.04	2.25	1.81	2.16	7.76	16.95	13.81	23.00
5230MHz_TnomVnom	Pass	6.05	6.24	6.37	7.15	6.56	12.26	16.95	18.31	23.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz_TnomVnom	Pass	5.56	2.81	3.51			5.99	30.00	11.55	36.00
5795MHz_TnomVnom	Pass	5.56	3.22	3.26			6.19	30.00	11.75	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	6.05	-1.26	-0.91	-0.64	-0.99	4.40	16.95	10.45	23.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz_TnomVnom	Pass	5.56	-0.40	-0.22			2.56	30.00	8.12	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	6.05	7.32	8.38	7.31	7.31	13.15	16.95	19.20	23.00
5200MHz_TnomVnom	Pass	6.05	8.18	9.03	9.02	8.85	14.14	16.95	20.19	23.00
5240MHz_TnomVnom	Pass	6.05	5.87	5.86	6.26	6.36	11.74	16.95	17.79	23.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5745MHz_TnomVnom	Pass	5.56	10.26	10.16			12.68	30.00	18.24	36.00
5785MHz_TnomVnom	Pass	5.56	13.87	12.72			15.91	30.00	21.47	36.00
5825MHz_TnomVnom	Pass	5.56	11.96	10.77			14.34	30.00	19.90	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	6.05	2.08	4.39	3.48	2.18	7.92	16.95	13.97	23.00
5230MHz_TnomVnom	Pass	6.05	7.64	7.11	6.71	7.66	12.28	16.95	18.33	23.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5755MHz_TnomVnom	Pass	5.56	9.93	9.68			11.96	30.00	17.52	36.00
5795MHz_TnomVnom	Pass	5.56	9.96	9.64			12.38	30.00	17.94	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	6.05	0.38	1.04	1.20	-0.08	5.10	16.95	11.15	23.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz_TnomVnom	Pass	5.56	5.81	5.06			7.83	30.00	13.39	36.00

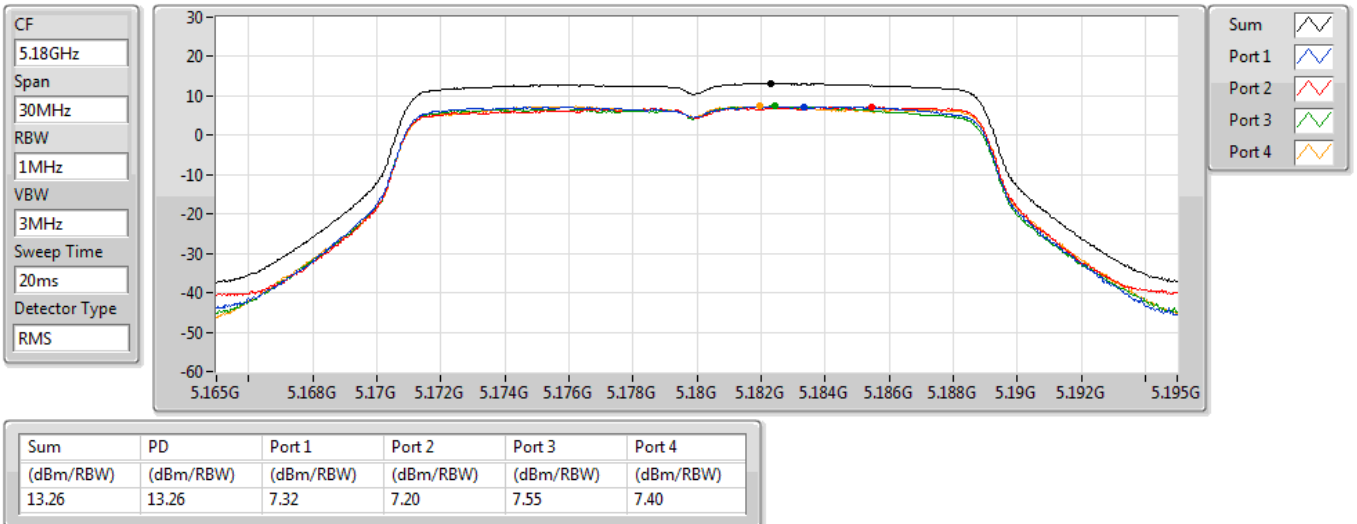
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5180MHz

16/12/2020

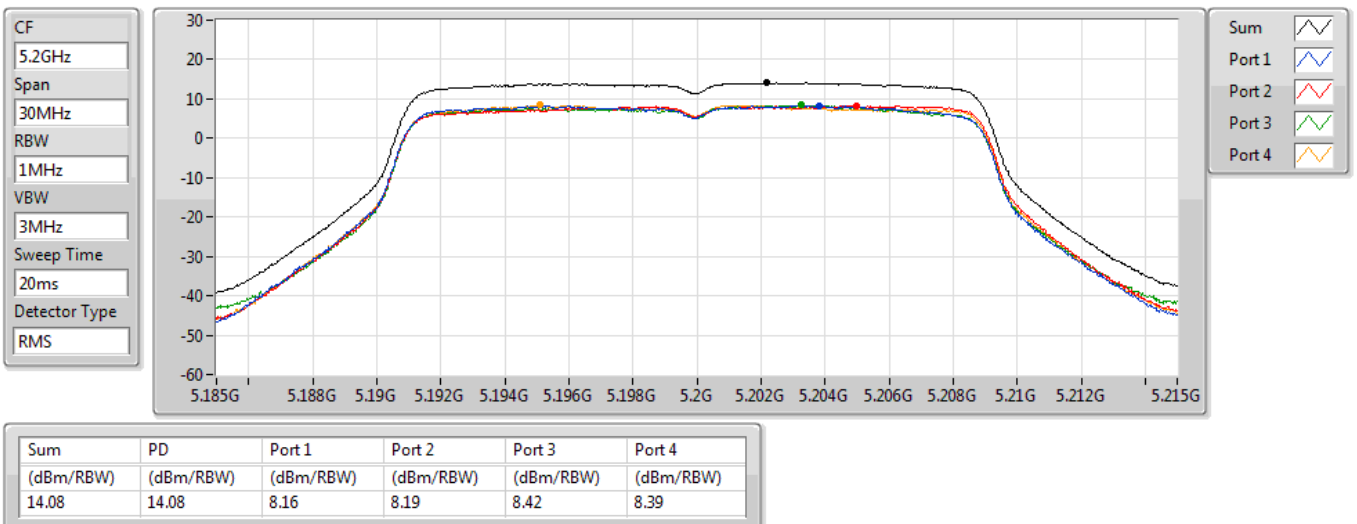


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5200MHz

16/12/2020

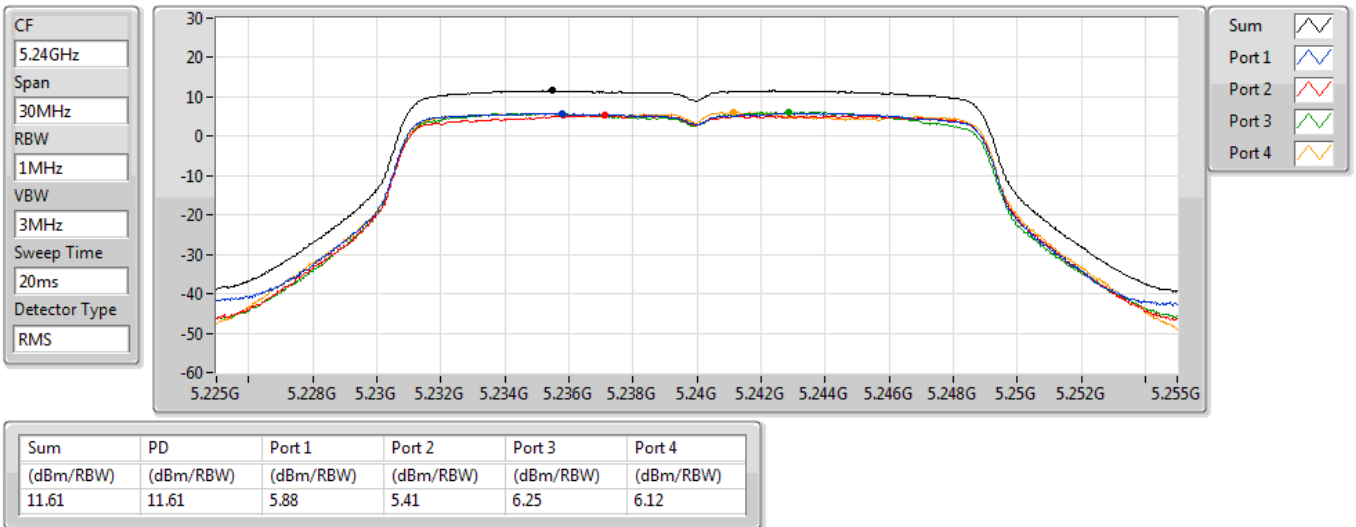


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5240MHz

16/12/2020

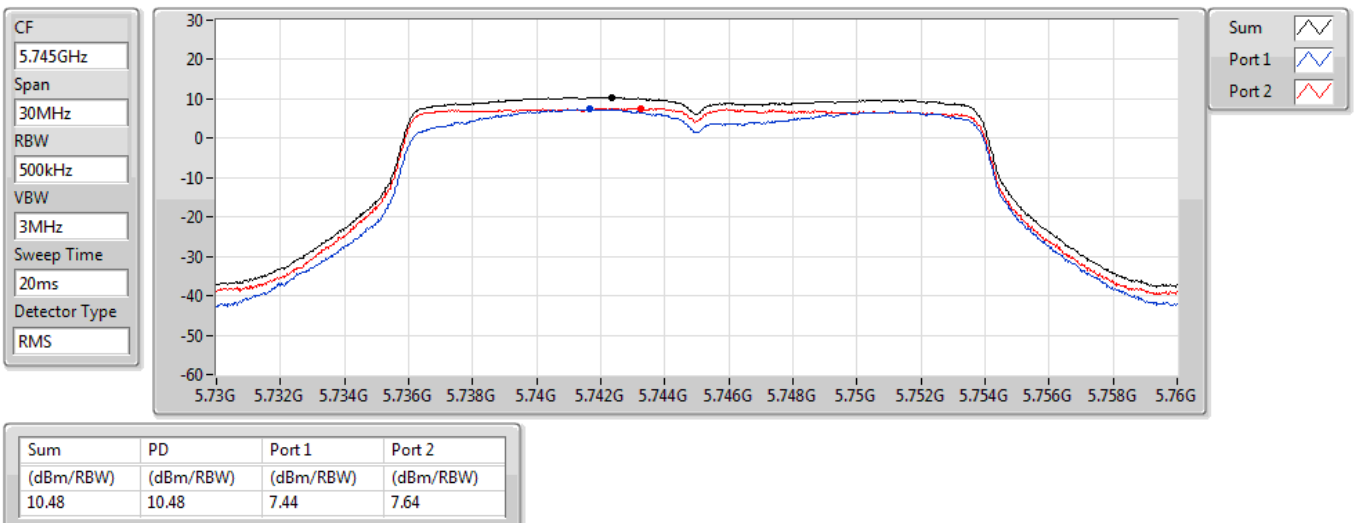


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

5745MHz

16/12/2020

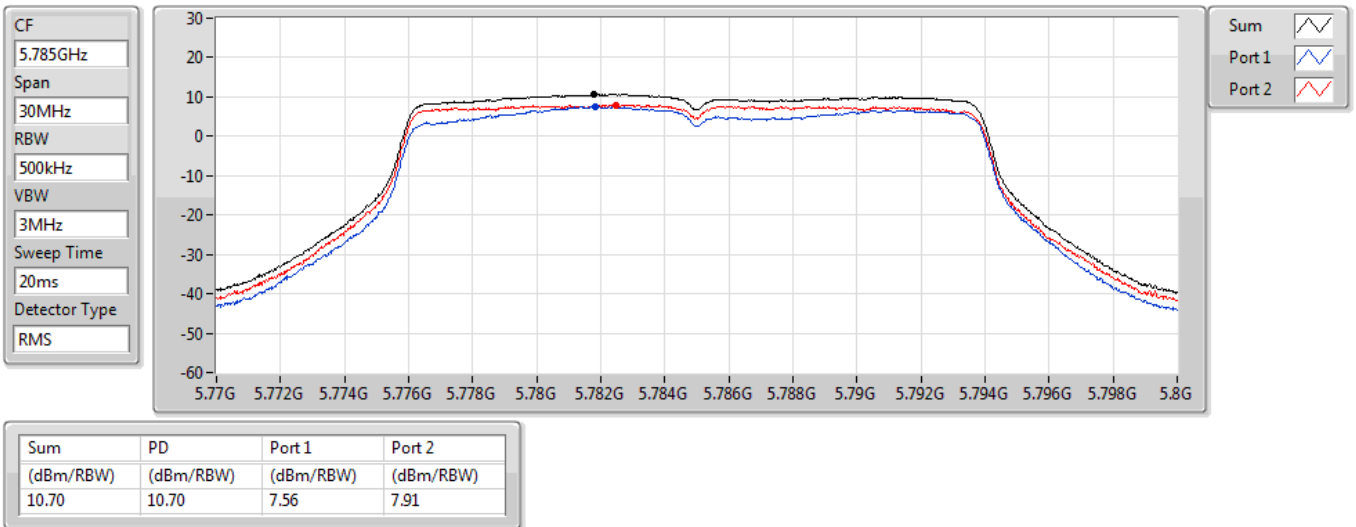


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5785MHz

PSD

16/12/2020

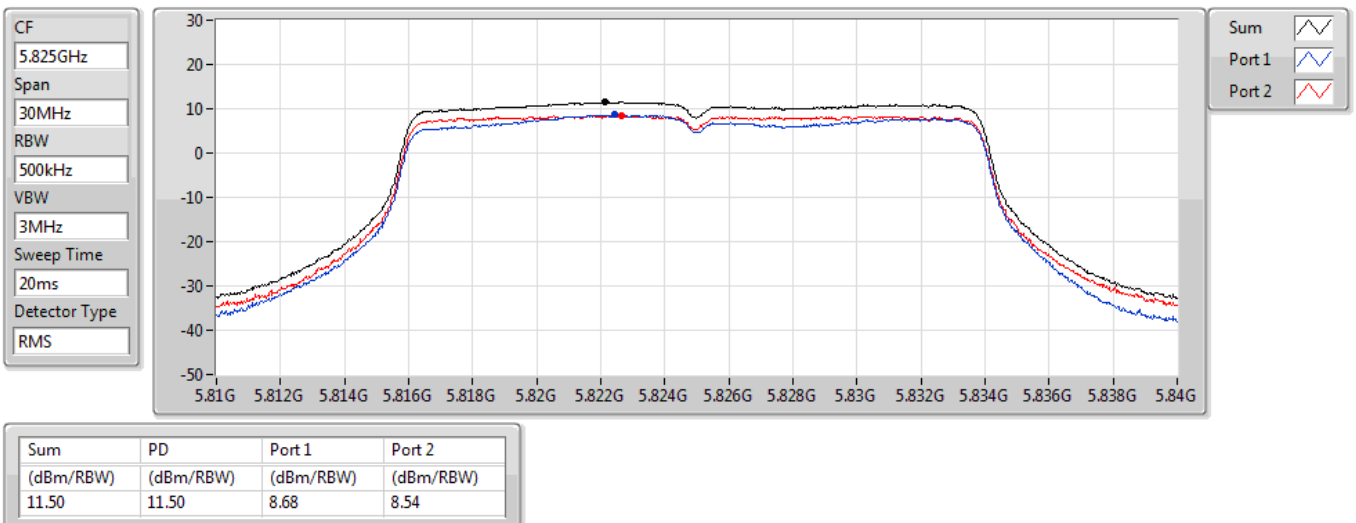


802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5825MHz

PSD

16/12/2020

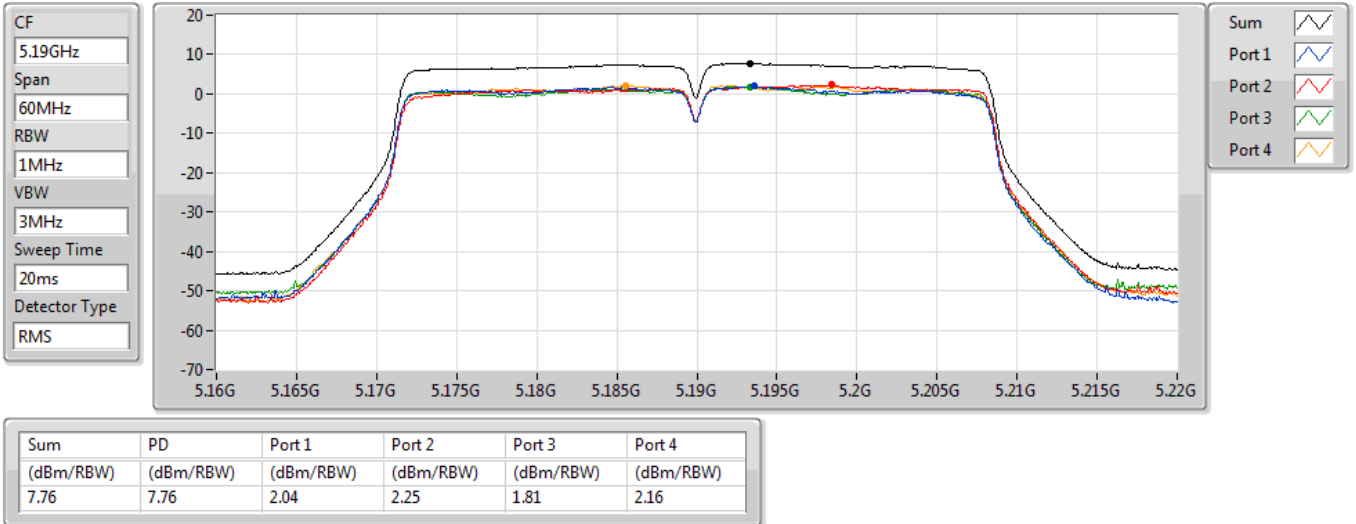


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5190MHz

16/12/2020

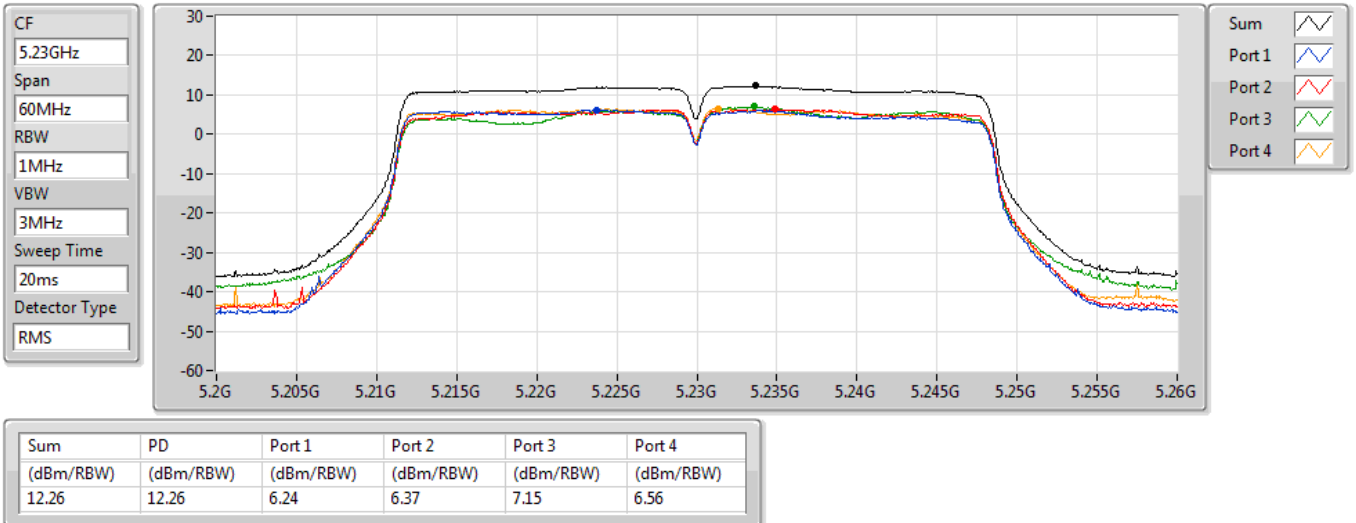


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5230MHz

16/12/2020

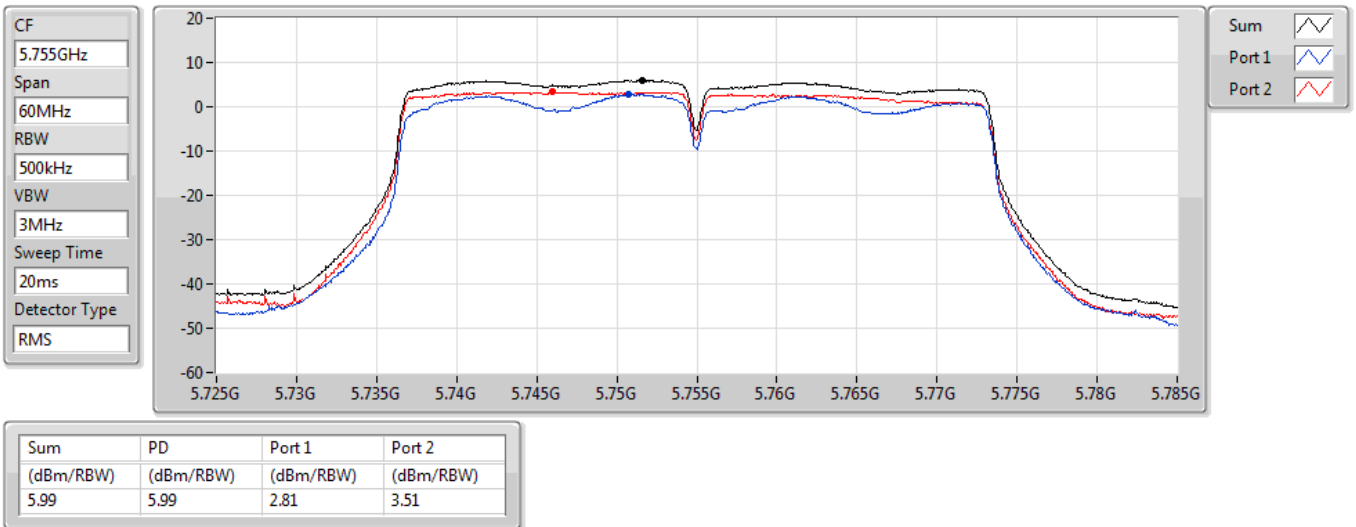


802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5755MHz

16/12/2020

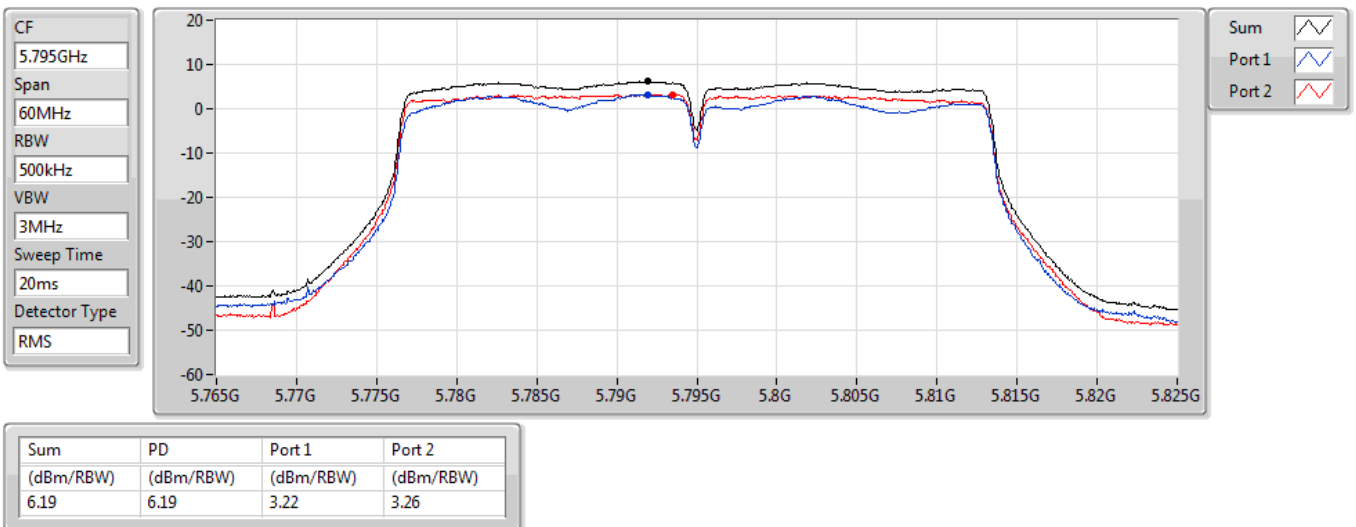


802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5795MHz

16/12/2020

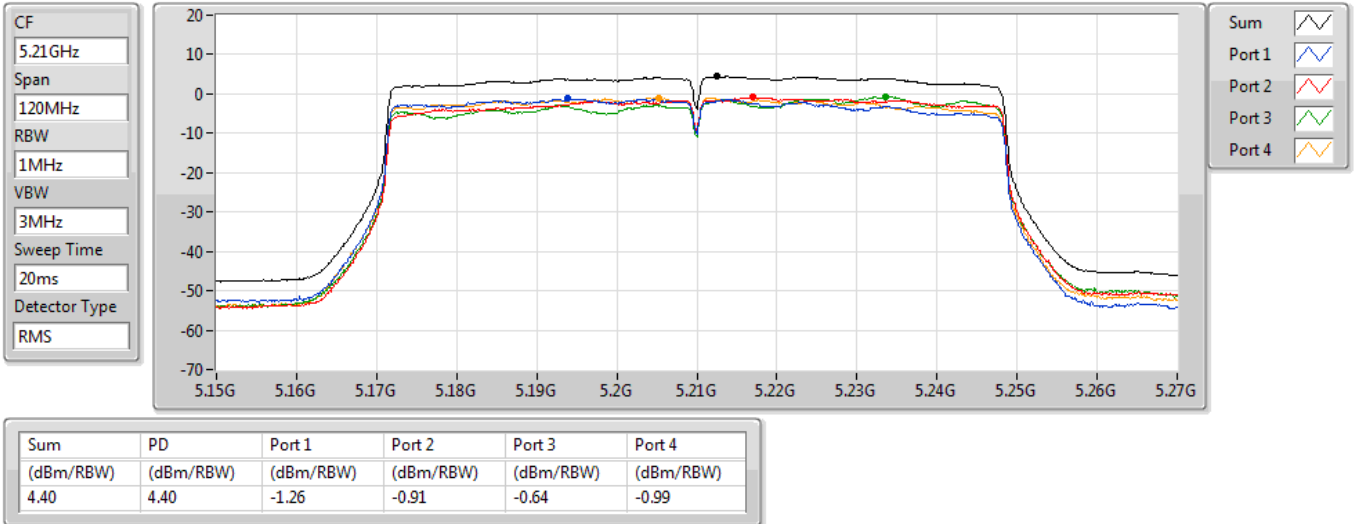


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5210MHz

16/12/2020

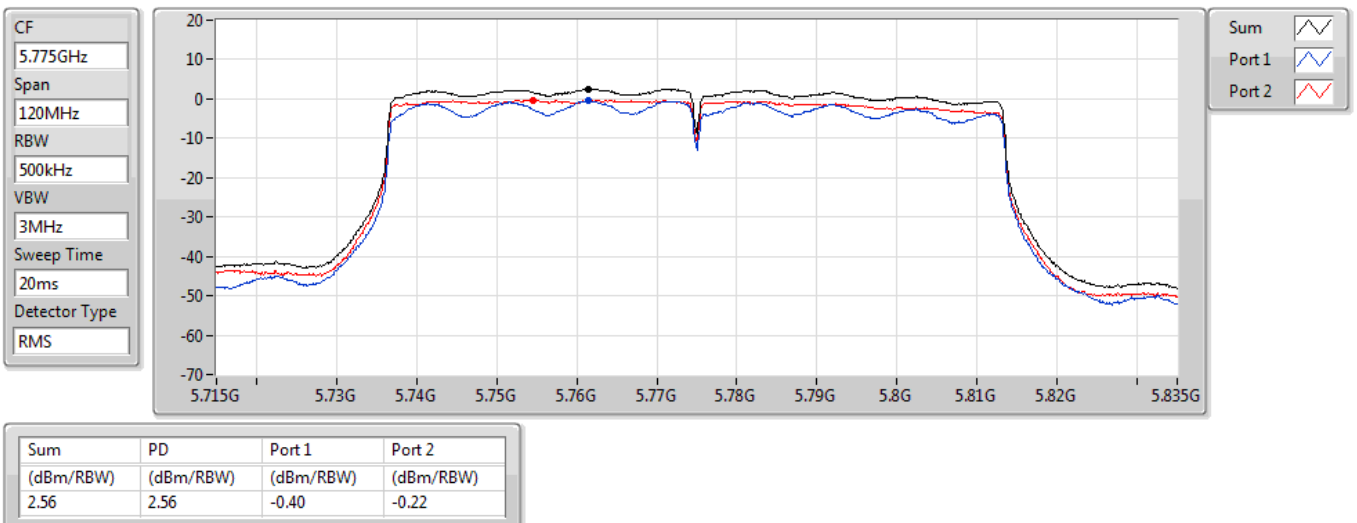


802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

5775MHz

16/12/2020

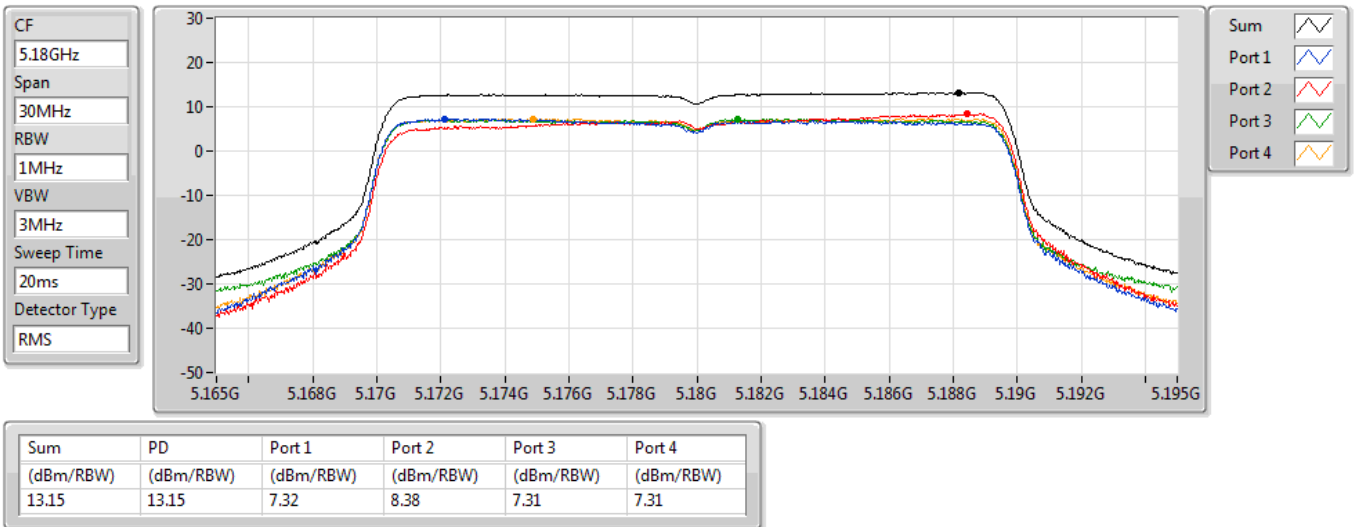


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5180MHz

16/12/2020

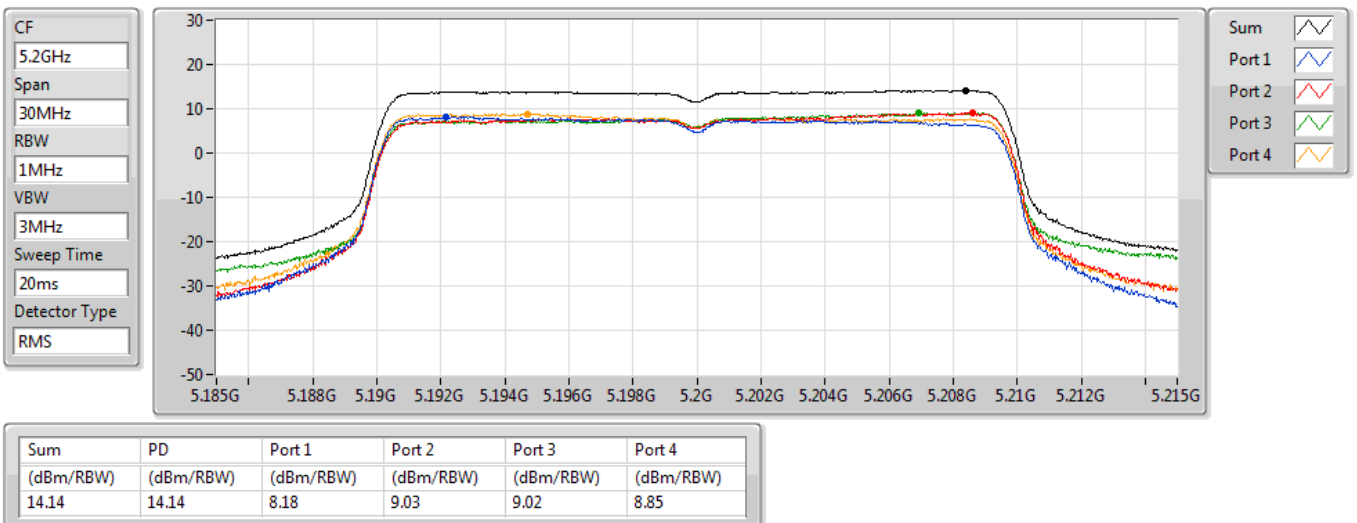


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5200MHz

16/12/2020

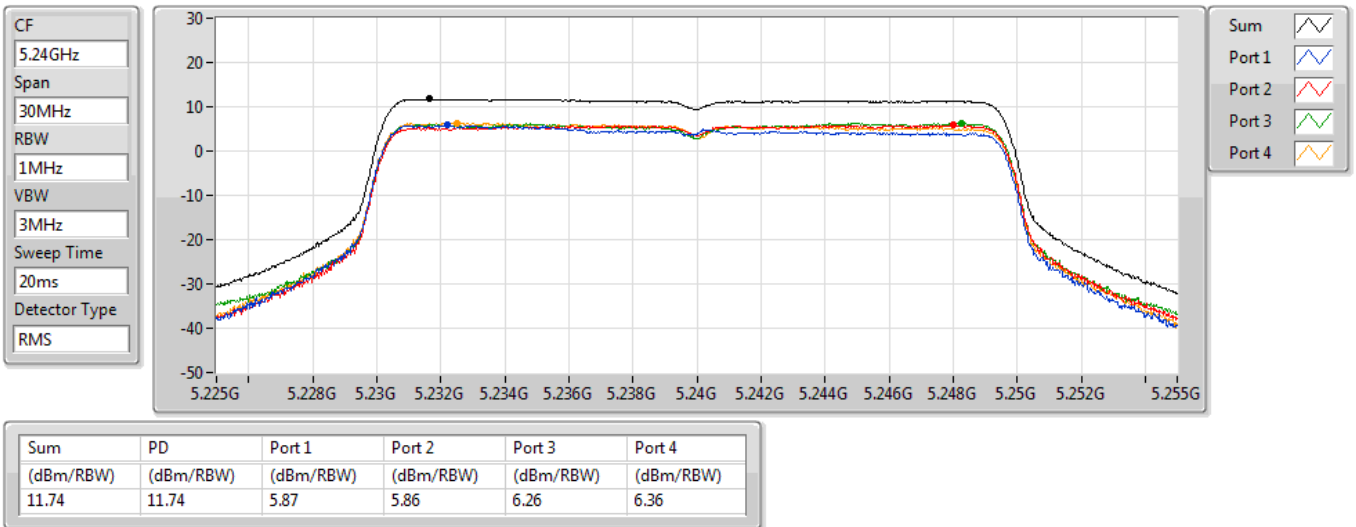


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5240MHz

16/12/2020

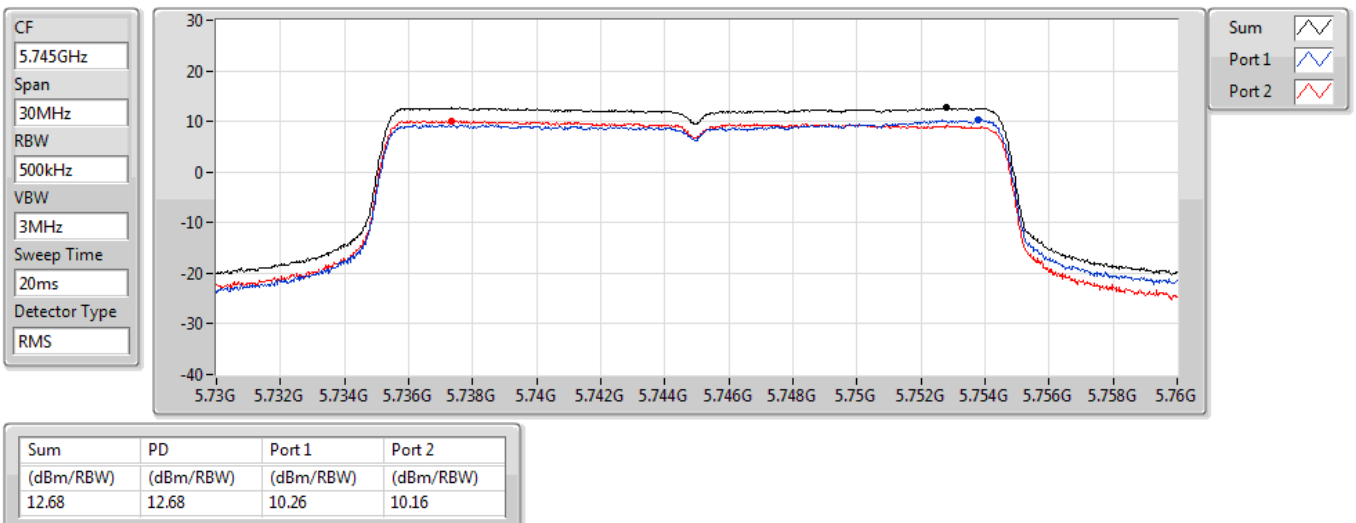


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5745MHz

15/12/2020

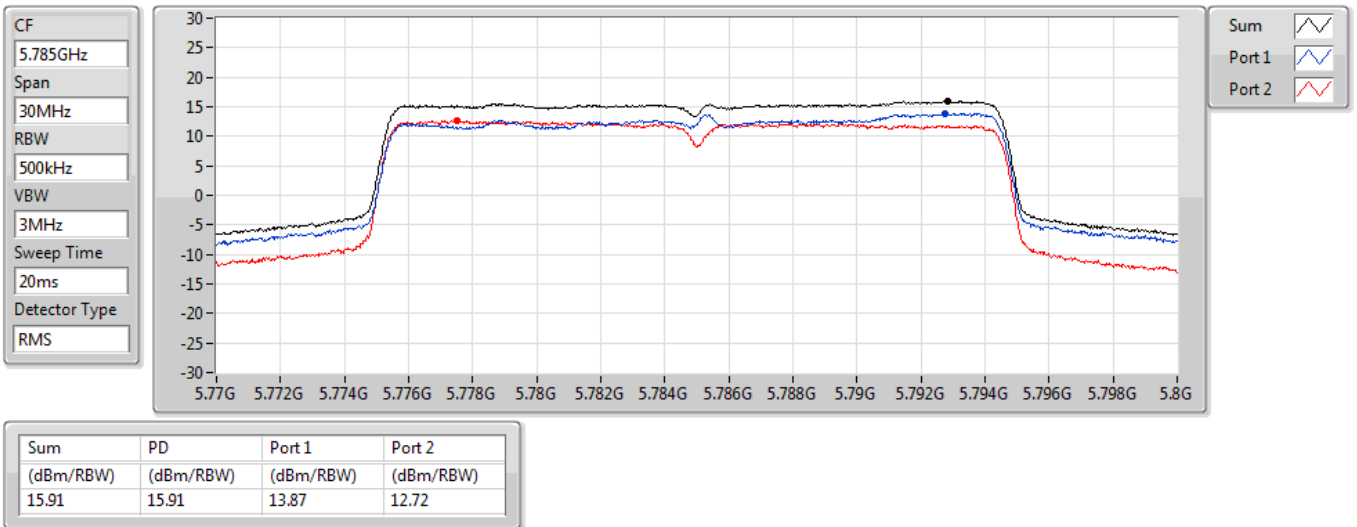


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5785MHz

15/12/2020

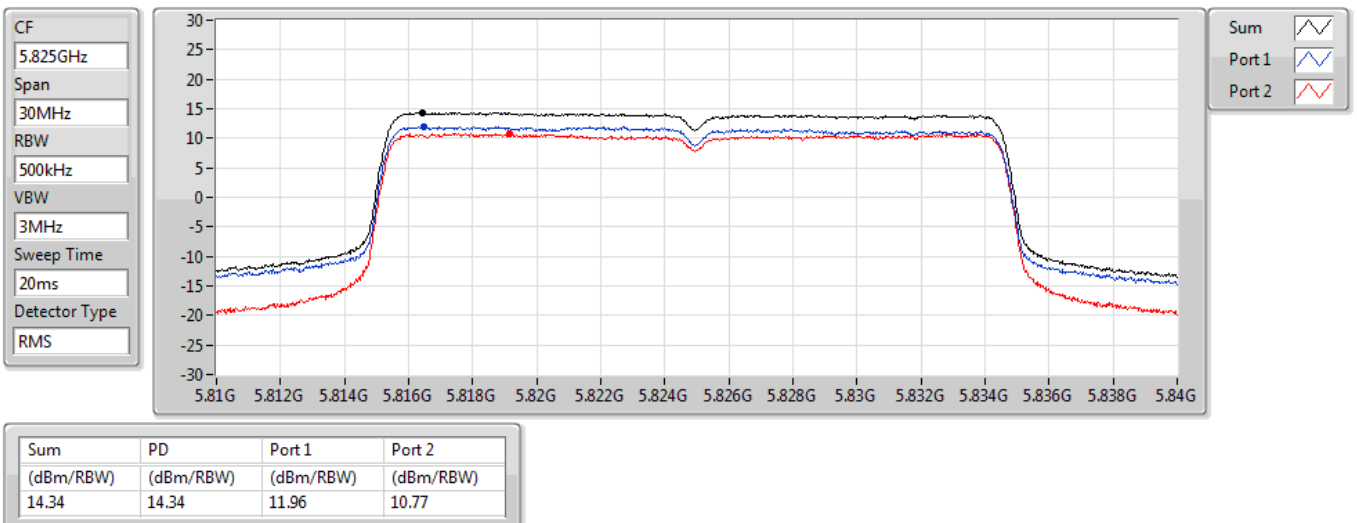


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5825MHz

15/12/2020

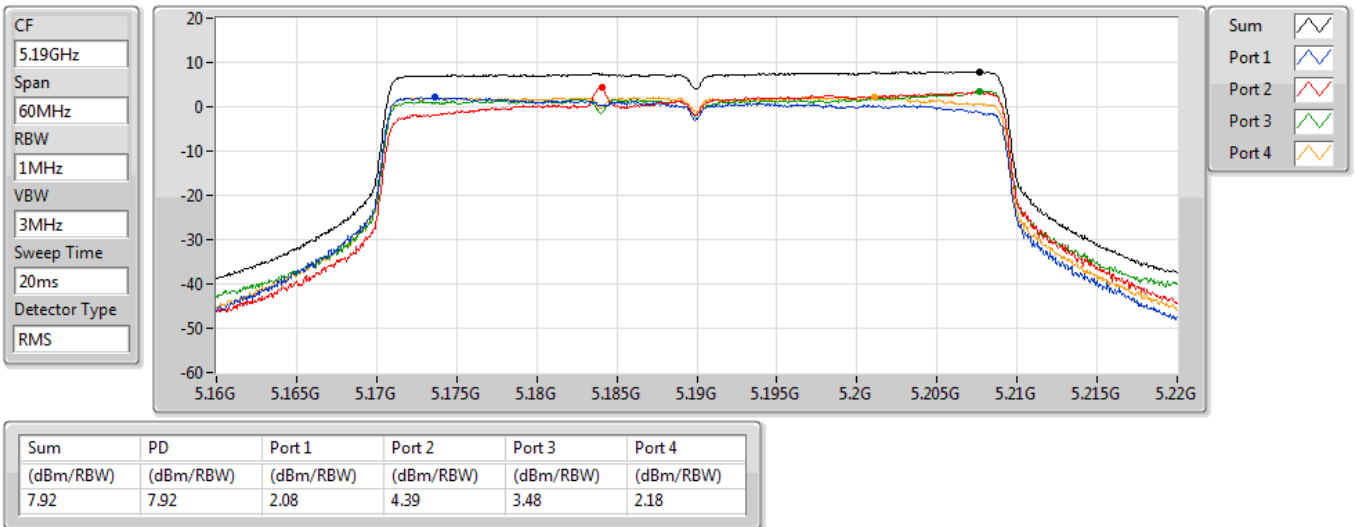


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5190MHz

16/12/2020

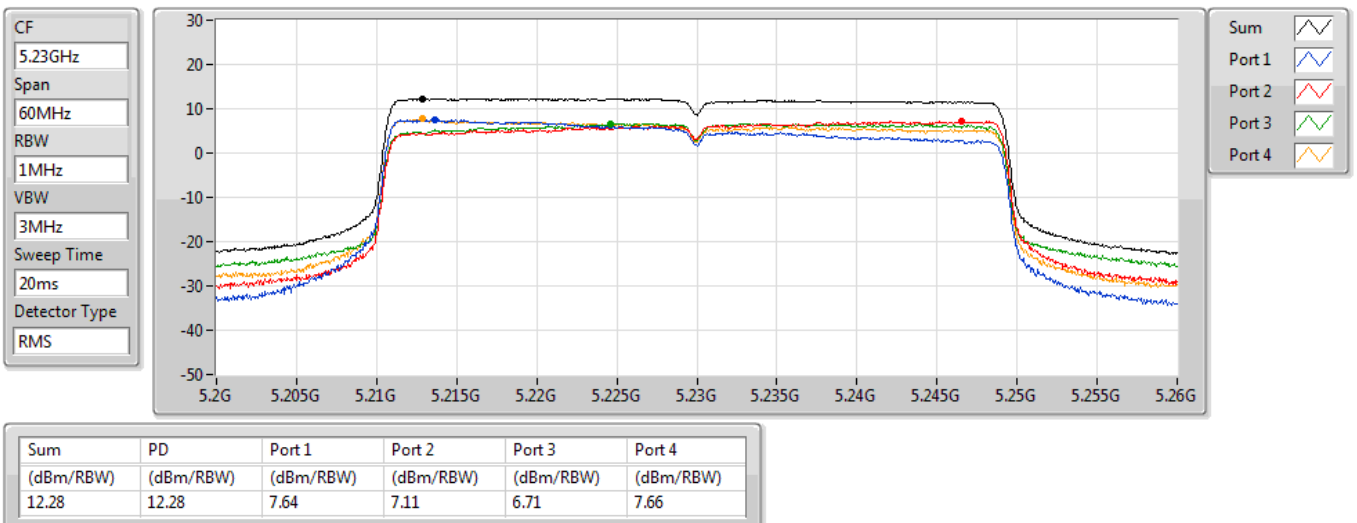


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5230MHz

16/12/2020

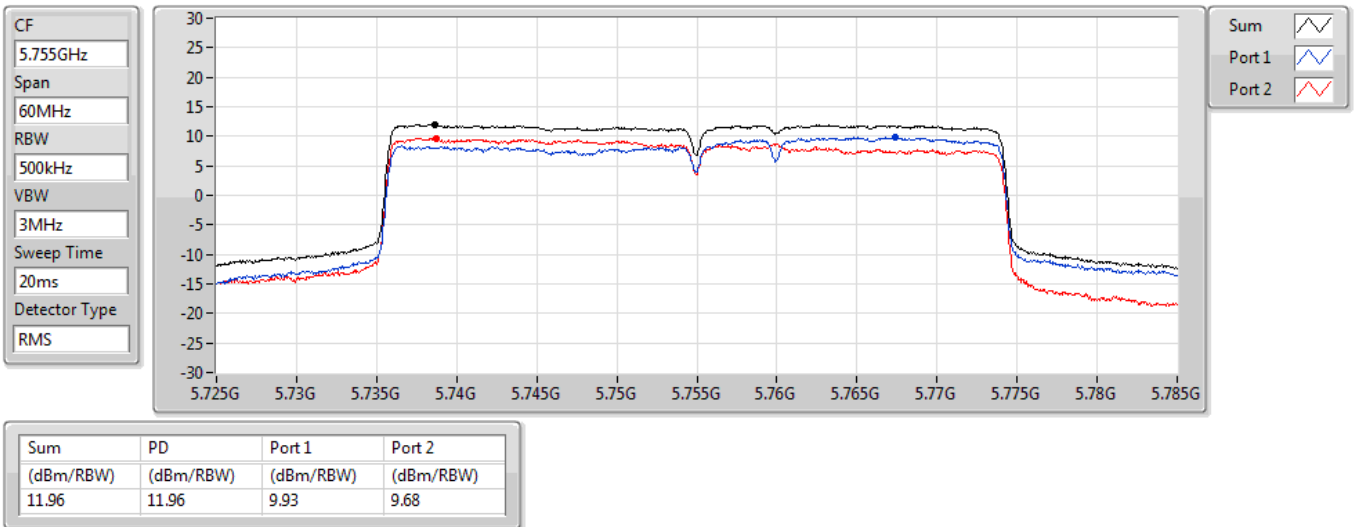


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5755MHz

15/12/2020

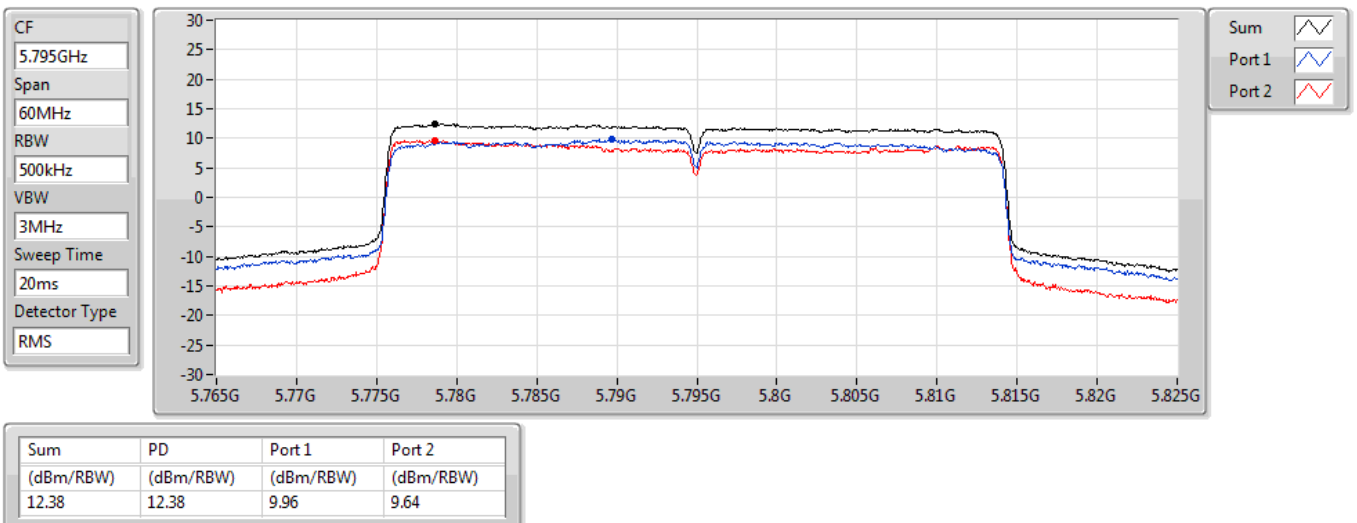


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5795MHz

15/12/2020

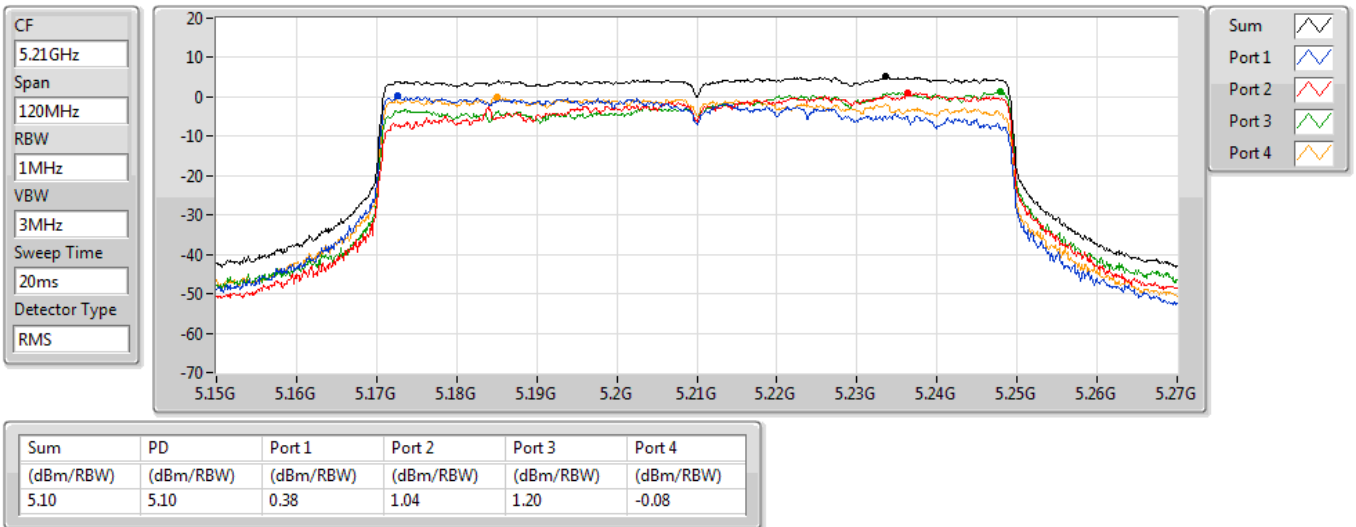


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5210MHz

16/12/2020

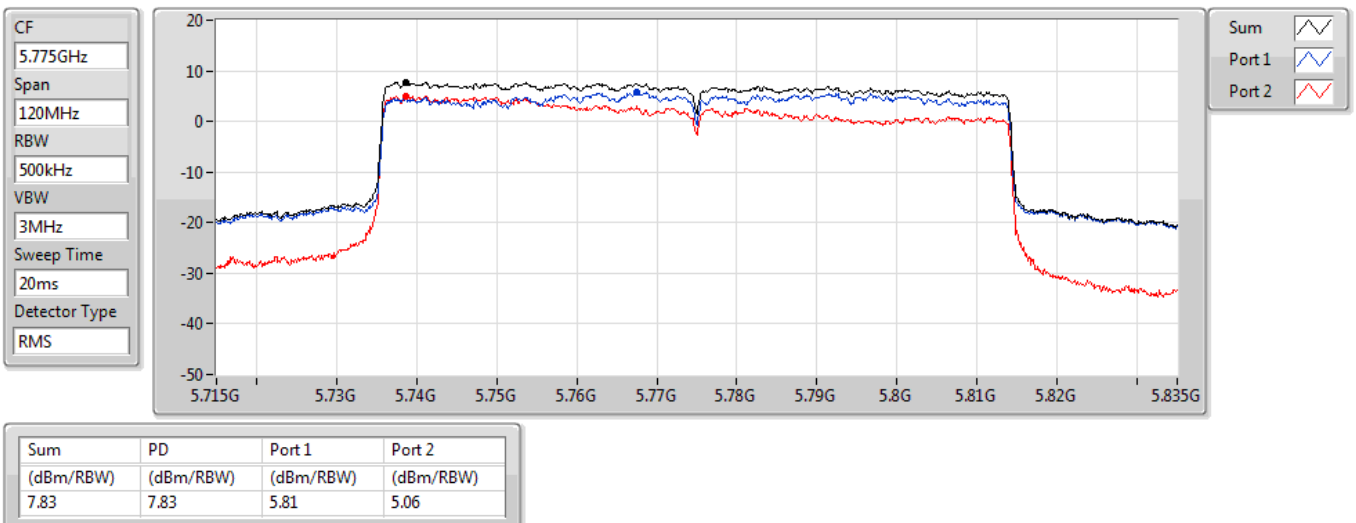


802.11ax HEW80-BF_Nss1,(MCS0)_2TX

PSD

5775MHz

15/12/2020





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	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	PK	30M	31.36	40.00	-8.64	3	Vertical	0	1.00	-



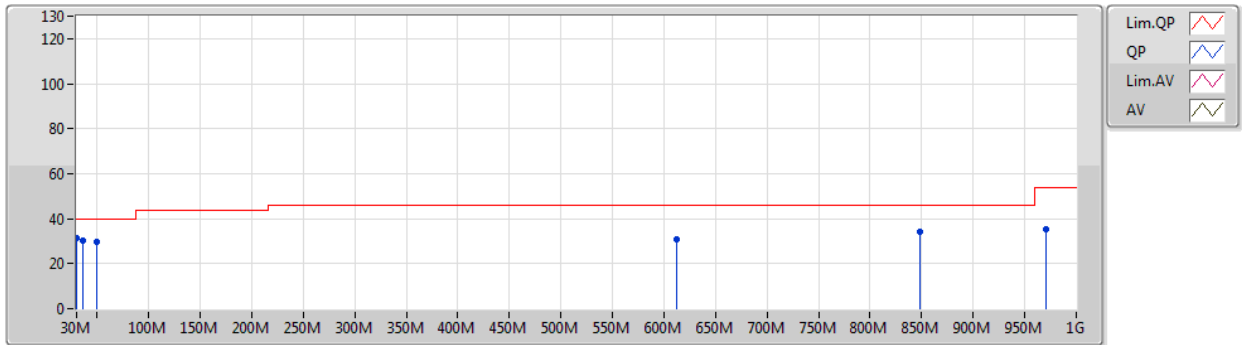
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	30M	31.36	40.00	-8.64	3	Vertical	0	1.00	-
5775MHz	Pass	PK	49.4M	29.63	40.00	-10.37	3	Vertical	0	1.00	-
5775MHz	Pass	PK	35.82M	30.26	40.00	-9.74	3	Vertical	0	1.00	-
5775MHz	Pass	PK	612M	30.89	46.00	-15.11	3	Vertical	0	1.00	-
5775MHz	Pass	PK	848.68M	34.34	46.00	-11.66	3	Vertical	0	1.00	-
5775MHz	Pass	PK	970.9M	35.57	54.00	-18.43	3	Vertical	0	1.00	-
5775MHz	Pass	PK	30M	31.26	40.00	-8.74	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	136.7M	27.36	43.50	-16.14	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	214.3M	32.25	43.50	-11.25	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	297.72M	28.56	46.00	-17.44	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	499.48M	30.56	46.00	-15.44	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	691.54M	33.09	46.00	-12.91	3	Horizontal	360	1.00	-

802.11ax HEW80_Nss1,(MCS0)_2TX

21/08/2020

5775MHz_Adapter

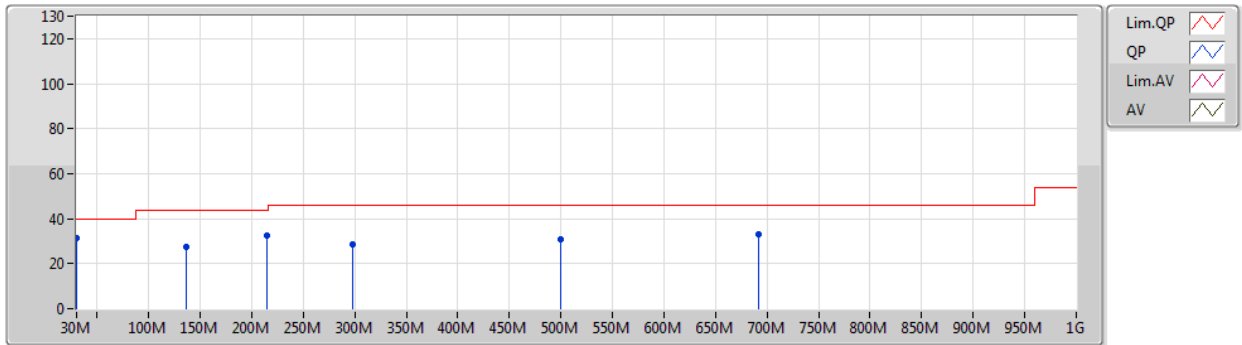


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	31.36	40.00	-8.64	-3.03	3	Vertical	0	1.00	-	34.39	23.48	0.70	27.21
PK	49.4M	29.63	40.00	-10.37	-13.33	3	Vertical	0	1.00	-	42.96	13.37	0.99	27.69
PK	35.82M	30.26	40.00	-9.74	-6.05	3	Vertical	0	1.00	-	36.31	20.10	0.82	26.97
PK	612M	30.89	46.00	-15.11	-0.46	3	Vertical	0	1.00	-	31.35	24.00	3.85	28.31
PK	848.68M	34.34	46.00	-11.66	2.40	3	Vertical	0	1.00	-	31.94	25.41	4.60	27.61
PK	970.9M	35.57	54.00	-18.43	3.98	3	Vertical	0	1.00	-	31.59	26.21	4.94	27.17

802.11ax HEW80_Nss1,(MCS0)_2TX

21/08/2020

5775MHz_Adapter



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	30M	31.26	40.00	-8.74	-3.03	3	Horizontal	360	1.00	-	34.29	23.48	0.70	27.21
PK	136.7M	27.36	43.50	-16.14	-9.34	3	Horizontal	360	1.00	-	36.70	16.61	1.68	27.63
PK	214.3M	32.25	43.50	-11.25	-10.90	3	Horizontal	360	1.00	-	43.15	14.13	2.19	27.22
PK	297.72M	28.56	46.00	-17.44	-6.10	3	Horizontal	360	1.00	-	34.66	18.35	2.59	27.04
PK	499.48M	30.56	46.00	-15.44	-2.07	3	Horizontal	360	1.00	-	32.63	22.71	3.50	28.28
PK	691.54M	33.09	46.00	-12.91	0.07	3	Horizontal	360	1.00	-	33.02	24.04	4.17	28.14



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)_4TX	Pass	AV	15.6024G	53.94	54.00	-0.06	3	Vertical	302	2.33	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	AV	5.1492G	53.86	54.00	-0.14	3	Vertical	247	1.81	-
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	AV	5.144G	53.25	54.00	-0.75	3	Vertical	249	1.81	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	AV	5.144G	53.62	54.00	-0.38	3	Vertical	252	1.80	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	17.47488G	63.72	68.20	-4.48	3	Horizontal	331	1.50	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	PK	5.6466G	64.34	68.20	-3.86	3	Horizontal	62	1.64	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	PK	5.927G	67.68	68.20	-0.52	3	Vertical	131	1.93	-
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	PK	5.6502G	68.09	68.35	-0.26	3	Horizontal	64	1.75	-

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)_4TX	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.15G	53.60	54.00	-0.40	3	Vertical	323	1.45	-
5180MHz	Pass	AV	5.1766G	109.59	Inf	-Inf	3	Vertical	323	1.45	-
5180MHz	Pass	PK	5.15G	67.87	74.00	-6.13	3	Vertical	323	1.45	-
5180MHz	Pass	PK	5.1768G	119.70	Inf	-Inf	3	Vertical	323	1.45	-
5180MHz	Pass	AV	5.15G	52.78	54.00	-1.22	3	Horizontal	320	1.77	-
5180MHz	Pass	AV	5.1736G	107.51	Inf	-Inf	3	Horizontal	320	1.77	-
5180MHz	Pass	PK	5.15G	67.15	74.00	-6.85	3	Horizontal	320	1.77	-
5180MHz	Pass	PK	5.173G	117.13	Inf	-Inf	3	Horizontal	320	1.77	-
5180MHz	Pass	AV	15.53096G	47.30	54.00	-6.70	3	Vertical	196	1.49	-
5180MHz	Pass	PK	10.35993G	58.11	68.20	-10.09	3	Vertical	238	1.93	-
5180MHz	Pass	PK	15.53088G	60.45	74.00	-13.55	3	Vertical	196	1.49	-
5180MHz	Pass	AV	15.53356G	47.86	54.00	-6.14	3	Horizontal	327	1.49	-
5180MHz	Pass	PK	10.35994G	59.94	68.20	-8.26	3	Horizontal	226	2.42	-
5180MHz	Pass	PK	15.53412G	60.96	74.00	-13.04	3	Horizontal	327	1.49	-
5200MHz	Pass	AV	5.1432G	50.92	54.00	-3.08	3	Vertical	21	2.53	-
5200MHz	Pass	AV	5.2028G	112.92	Inf	-Inf	3	Vertical	21	2.53	-
5200MHz	Pass	PK	5.1424G	67.44	74.00	-6.56	3	Vertical	21	2.53	-
5200MHz	Pass	PK	5.2024G	122.33	Inf	-Inf	3	Vertical	21	2.53	-
5200MHz	Pass	AV	5.1496G	49.50	54.00	-4.50	3	Horizontal	295	1.91	-
5200MHz	Pass	AV	5.2012G	111.05	Inf	-Inf	3	Horizontal	295	1.91	-
5200MHz	Pass	PK	5.1472G	62.83	74.00	-11.17	3	Horizontal	295	1.91	-
5200MHz	Pass	PK	5.202G	120.23	Inf	-Inf	3	Horizontal	295	1.91	-
5200MHz	Pass	AV	15.6024G	53.94	54.00	-0.06	3	Vertical	302	2.33	-
5200MHz	Pass	PK	10.39985G	57.52	68.20	-10.68	3	Vertical	230	1.24	-
5200MHz	Pass	PK	15.6009G	66.94	74.00	-7.06	3	Vertical	302	2.33	-
5200MHz	Pass	AV	15.6065G	50.84	54.00	-3.16	3	Horizontal	217	1.50	-
5200MHz	Pass	PK	10.39992G	60.88	68.20	-7.32	3	Horizontal	214	2.41	-
5200MHz	Pass	PK	15.6088G	63.98	74.00	-10.02	3	Horizontal	217	1.50	-
5240MHz	Pass	AV	5.1446G	46.95	54.00	-7.05	3	Vertical	295	2.16	-
5240MHz	Pass	AV	5.2424G	111.65	Inf	-Inf	3	Vertical	295	2.16	-
5240MHz	Pass	AV	5.357G	44.45	54.00	-9.55	3	Vertical	295	2.16	-
5240MHz	Pass	PK	5.1422G	58.95	74.00	-15.05	3	Vertical	295	2.16	-
5240MHz	Pass	PK	5.2418G	121.54	Inf	-Inf	3	Vertical	295	2.16	-
5240MHz	Pass	PK	5.3654G	56.45	74.00	-17.55	3	Vertical	295	2.16	-
5240MHz	Pass	AV	5.1422G	46.51	54.00	-7.49	3	Horizontal	296	1.92	-
5240MHz	Pass	AV	5.2418G	111.60	Inf	-Inf	3	Horizontal	296	1.92	-
5240MHz	Pass	AV	5.3528G	44.87	54.00	-9.13	3	Horizontal	296	1.92	-
5240MHz	Pass	PK	5.1446G	58.76	74.00	-15.24	3	Horizontal	296	1.92	-
5240MHz	Pass	PK	5.2418G	120.80	Inf	-Inf	3	Horizontal	296	1.92	-
5240MHz	Pass	PK	5.3504G	56.36	74.00	-17.64	3	Horizontal	296	1.92	-
5240MHz	Pass	AV	15.7209G	53.02	54.00	-0.98	3	Vertical	29	2.08	-
5240MHz	Pass	PK	10.47981G	57.60	68.20	-10.60	3	Vertical	273	1.56	-
5240MHz	Pass	PK	15.72258G	67.10	74.00	-6.90	3	Vertical	29	2.08	-
5240MHz	Pass	AV	15.72224G	51.25	54.00	-2.75	3	Horizontal	218	1.60	-
5240MHz	Pass	PK	10.47992G	61.77	68.20	-6.43	3	Horizontal	220	2.38	-
5240MHz	Pass	PK	15.72168G	64.29	74.00	-9.71	3	Horizontal	218	1.60	-
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	AV	5.7486G	110.33	Inf	-Inf	3	Vertical	132	1.76	-
5745MHz	Pass	PK	5.649G	60.23	68.20	-7.97	3	Vertical	132	1.76	-
5745MHz	Pass	PK	5.7426G	119.99	Inf	-Inf	3	Vertical	132	1.76	-
5745MHz	Pass	PK	6.033G	57.57	68.20	-10.63	3	Vertical	132	1.76	-
5745MHz	Pass	AV	5.7438G	110.14	Inf	-Inf	3	Horizontal	64	1.81	-
5745MHz	Pass	PK	5.6502G	62.24	68.35	-6.11	3	Horizontal	64	1.81	-
5745MHz	Pass	PK	5.7438G	120.17	Inf	-Inf	3	Horizontal	64	1.81	-
5745MHz	Pass	PK	5.9358G	57.79	68.20	-10.41	3	Horizontal	64	1.81	-
5745MHz	Pass	AV	11.48988G	43.90	54.00	-10.10	3	Vertical	75	1.31	-
5745MHz	Pass	PK	11.49612G	57.24	74.00	-16.76	3	Vertical	75	1.31	-
5745MHz	Pass	PK	17.22522G	61.45	68.20	-6.75	3	Vertical	223	2.06	-
5745MHz	Pass	AV	11.48988G	46.54	54.00	-7.46	3	Horizontal	111	2.05	-
5745MHz	Pass	PK	11.49012G	57.47	74.00	-16.53	3	Horizontal	111	2.05	-



RSE TX above 1GHz Non-Beamforming

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5745MHz	Pass	PK	17.23734G	61.36	68.20	-6.84	3	Horizontal	1	2.31	-
5785MHz	Pass	AV	5.7802G	110.07	Inf	-Inf	3	Vertical	333	1.69	-
5785MHz	Pass	PK	5.593G	56.56	68.20	-11.64	3	Vertical	333	1.69	-
5785MHz	Pass	PK	5.7802G	119.79	Inf	-Inf	3	Vertical	333	1.69	-
5785MHz	Pass	PK	6.0226G	58.52	68.20	-9.68	3	Vertical	333	1.69	-
5785MHz	Pass	AV	5.779G	110.02	Inf	-Inf	3	Horizontal	62	1.73	-
5785MHz	Pass	PK	5.5366G	58.67	68.20	-9.53	3	Horizontal	62	1.73	-
5785MHz	Pass	PK	5.7802G	119.87	Inf	-Inf	3	Horizontal	62	1.73	-
5785MHz	Pass	PK	5.9998G	57.79	68.20	-10.41	3	Horizontal	62	1.73	-
5785MHz	Pass	AV	11.56976G	44.02	54.00	-9.98	3	Vertical	155	1.29	-
5785MHz	Pass	PK	11.57222G	55.57	74.00	-18.43	3	Vertical	155	1.29	-
5785MHz	Pass	PK	17.35926G	62.51	68.20	-5.69	3	Vertical	180	1.49	-
5785MHz	Pass	AV	11.57G	46.11	54.00	-7.89	3	Horizontal	113	2.02	-
5785MHz	Pass	PK	11.5706G	57.80	74.00	-16.20	3	Horizontal	113	2.02	-
5785MHz	Pass	PK	17.36298G	62.38	68.20	-5.82	3	Horizontal	128	2.81	-
5825MHz	Pass	AV	5.8238G	110.79	Inf	-Inf	3	Vertical	336	1.87	-
5825MHz	Pass	PK	5.5718G	57.02	68.20	-11.18	3	Vertical	336	1.87	-
5825MHz	Pass	PK	5.8238G	120.09	Inf	-Inf	3	Vertical	336	1.87	-
5825MHz	Pass	PK	5.9258G	58.83	68.20	-9.37	3	Vertical	336	1.87	-
5825MHz	Pass	AV	5.8238G	109.95	Inf	-Inf	3	Horizontal	63	1.74	-
5825MHz	Pass	PK	5.6438G	58.28	68.20	-9.92	3	Horizontal	63	1.74	-
5825MHz	Pass	PK	5.8298G	119.67	Inf	-Inf	3	Horizontal	63	1.74	-
5825MHz	Pass	PK	6.0218G	57.84	68.20	-10.36	3	Horizontal	63	1.74	-
5825MHz	Pass	AV	11.64796G	42.36	54.00	-11.64	3	Vertical	115	1.49	-
5825MHz	Pass	PK	11.6476G	55.08	74.00	-18.92	3	Vertical	115	1.49	-
5825MHz	Pass	PK	17.46816G	62.83	68.20	-5.37	3	Vertical	360	1.48	-
5825MHz	Pass	AV	11.64994G	45.00	54.00	-9.00	3	Horizontal	112	2.04	-
5825MHz	Pass	PK	11.65012G	57.14	74.00	-16.86	3	Horizontal	112	2.04	-
5825MHz	Pass	PK	17.47488G	63.72	68.20	-4.48	3	Horizontal	331	1.50	-
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1492G	53.86	54.00	-0.14	3	Vertical	247	1.81	-
5180MHz	Pass	AV	5.1754G	110.24	Inf	-Inf	3	Vertical	247	1.81	-
5180MHz	Pass	PK	5.1478G	73.29	74.00	-0.71	3	Vertical	247	1.81	-
5180MHz	Pass	PK	5.1754G	124.33	Inf	-Inf	3	Vertical	247	1.81	-
5180MHz	Pass	AV	5.1442G	52.27	54.00	-1.73	3	Horizontal	228	1.77	-
5180MHz	Pass	AV	5.1848G	108.10	Inf	-Inf	3	Horizontal	228	1.77	-
5180MHz	Pass	PK	5.1458G	69.46	74.00	-4.54	3	Horizontal	228	1.77	-
5180MHz	Pass	PK	5.1852G	121.71	Inf	-Inf	3	Horizontal	228	1.77	-
5180MHz	Pass	AV	15.53602G	48.40	54.00	-5.60	3	Vertical	189	2.88	-
5180MHz	Pass	PK	10.35966G	56.55	68.20	-11.65	3	Vertical	223	1.49	-
5180MHz	Pass	PK	15.5379G	63.60	74.00	-10.40	3	Vertical	189	2.88	-
5180MHz	Pass	AV	15.53618G	48.41	54.00	-5.59	3	Horizontal	217	1.50	-
5180MHz	Pass	PK	10.35988G	61.18	68.20	-7.02	3	Horizontal	213	2.44	-
5180MHz	Pass	PK	15.53544G	61.80	74.00	-12.20	3	Horizontal	217	1.50	-
5200MHz	Pass	AV	5.15G	53.66	54.00	-0.34	3	Vertical	245	1.82	-
5200MHz	Pass	AV	5.1952G	112.91	Inf	-Inf	3	Vertical	245	1.82	-
5200MHz	Pass	PK	5.15G	68.92	74.00	-5.08	3	Vertical	245	1.82	-
5200MHz	Pass	PK	5.1948G	126.60	Inf	-Inf	3	Vertical	245	1.82	-
5200MHz	Pass	AV	5.1456G	52.08	54.00	-1.92	3	Horizontal	228	1.76	-
5200MHz	Pass	AV	5.2052G	111.07	Inf	-Inf	3	Horizontal	228	1.76	-
5200MHz	Pass	PK	5.1432G	67.72	74.00	-6.28	3	Horizontal	228	1.76	-
5200MHz	Pass	PK	5.2044G	123.39	Inf	-Inf	3	Horizontal	228	1.76	-
5200MHz	Pass	AV	15.60224G	53.51	54.00	-0.49	3	Vertical	27	1.74	-
5200MHz	Pass	PK	10.39984G	56.82	68.20	-11.38	3	Vertical	224	3.00	-
5200MHz	Pass	PK	15.6044G	69.35	74.00	-4.65	3	Vertical	27	1.74	-
5200MHz	Pass	AV	15.60632G	53.29	54.00	-0.71	3	Horizontal	326	1.48	-
5200MHz	Pass	PK	10.40006G	61.18	68.20	-7.02	3	Horizontal	218	2.41	-
5200MHz	Pass	PK	15.60432G	68.47	74.00	-5.53	3	Horizontal	326	1.48	-
5240MHz	Pass	AV	5.1494G	46.43	54.00	-7.57	3	Vertical	246	1.87	-
5240MHz	Pass	AV	5.2358G	109.79	Inf	-Inf	3	Vertical	246	1.87	-
5240MHz	Pass	AV	5.3522G	44.64	54.00	-9.36	3	Vertical	246	1.87	-
5240MHz	Pass	PK	5.1026G	58.17	74.00	-15.83	3	Vertical	246	1.87	-



RSE TX above 1GHz Non-Beamforming

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5240MHz	Pass	PK	5.2364G	121.81	Inf	-Inf	3	Vertical	246	1.87	-
5240MHz	Pass	PK	5.3792G	56.54	74.00	-17.46	3	Vertical	246	1.87	-
5240MHz	Pass	AV	5.147G	45.73	54.00	-8.27	3	Horizontal	230	1.69	-
5240MHz	Pass	AV	5.2448G	109.81	Inf	-Inf	3	Horizontal	230	1.69	-
5240MHz	Pass	AV	5.351G	44.23	54.00	-9.77	3	Horizontal	230	1.69	-
5240MHz	Pass	PK	5.1368G	56.94	74.00	-17.06	3	Horizontal	230	1.69	-
5240MHz	Pass	PK	5.2448G	122.40	Inf	-Inf	3	Horizontal	230	1.69	-
5240MHz	Pass	PK	5.3894G	56.84	74.00	-17.16	3	Horizontal	230	1.69	-
5240MHz	Pass	AV	15.71744G	52.75	54.00	-1.25	3	Vertical	300	2.38	-
5240MHz	Pass	PK	10.47968G	56.99	68.20	-11.21	3	Vertical	273	1.57	-
5240MHz	Pass	PK	15.72304G	67.51	74.00	-6.49	3	Vertical	300	2.38	-
5240MHz	Pass	AV	15.71664G	47.85	54.00	-6.15	3	Horizontal	320	1.49	-
5240MHz	Pass	PK	10.47985G	61.92	68.20	-6.28	3	Horizontal	221	2.39	-
5240MHz	Pass	PK	15.7144G	62.50	74.00	-11.50	3	Horizontal	320	1.49	-
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	AV	5.7438G	109.28	Inf	-Inf	3	Vertical	337	1.74	-
5745MHz	Pass	PK	5.6454G	57.34	68.20	-10.86	3	Vertical	337	1.74	-
5745MHz	Pass	PK	5.7438G	122.18	Inf	-Inf	3	Vertical	337	1.74	-
5745MHz	Pass	PK	5.9778G	57.94	68.20	-10.26	3	Vertical	337	1.74	-
5745MHz	Pass	AV	5.7438G	109.43	Inf	-Inf	3	Horizontal	62	1.64	-
5745MHz	Pass	PK	5.6466G	64.34	68.20	-3.86	3	Horizontal	62	1.64	-
5745MHz	Pass	PK	5.7426G	121.04	Inf	-Inf	3	Horizontal	62	1.64	-
5745MHz	Pass	PK	6.0258G	57.43	68.20	-10.77	3	Horizontal	62	1.64	-
5745MHz	Pass	AV	11.48976G	43.16	54.00	-10.84	3	Vertical	76	1.57	-
5745MHz	Pass	PK	11.48496G	56.22	74.00	-17.78	3	Vertical	76	1.57	-
5745MHz	Pass	PK	17.22108G	61.34	68.20	-6.86	3	Vertical	189	2.03	-
5745MHz	Pass	AV	11.48988G	45.74	54.00	-8.26	3	Horizontal	127	2.05	-
5745MHz	Pass	PK	11.49306G	56.51	74.00	-17.49	3	Horizontal	127	2.05	-
5745MHz	Pass	PK	17.23344G	62.47	68.20	-5.73	3	Horizontal	114	2.04	-
5785MHz	Pass	AV	5.7838G	109.08	Inf	-Inf	3	Vertical	333	1.87	-
5785MHz	Pass	PK	5.6482G	56.81	68.20	-11.39	3	Vertical	333	1.87	-
5785MHz	Pass	PK	5.7838G	122.78	Inf	-Inf	3	Vertical	333	1.87	-
5785MHz	Pass	PK	6.061G	58.17	68.20	-10.03	3	Vertical	333	1.87	-
5785MHz	Pass	AV	5.7826G	108.61	Inf	-Inf	3	Horizontal	66	1.72	-
5785MHz	Pass	PK	5.593G	58.04	68.20	-10.16	3	Horizontal	66	1.72	-
5785MHz	Pass	PK	5.7826G	121.36	Inf	-Inf	3	Horizontal	66	1.72	-
5785MHz	Pass	PK	5.9482G	57.74	68.20	-10.46	3	Horizontal	66	1.72	-
5785MHz	Pass	AV	11.56982G	43.35	54.00	-10.65	3	Vertical	157	1.40	-
5785MHz	Pass	PK	11.56694G	56.06	74.00	-17.94	3	Vertical	157	1.40	-
5785MHz	Pass	PK	17.34144G	62.33	68.20	-5.87	3	Vertical	310	1.49	-
5785MHz	Pass	AV	11.57006G	45.36	54.00	-8.64	3	Horizontal	114	1.98	-
5785MHz	Pass	PK	11.57G	57.00	74.00	-17.00	3	Horizontal	114	1.98	-
5785MHz	Pass	PK	17.34978G	62.47	68.20	-5.73	3	Horizontal	0	1.80	-
5825MHz	Pass	AV	5.8238G	109.89	Inf	-Inf	3	Vertical	333	1.87	-
5825MHz	Pass	PK	5.6462G	56.73	68.20	-11.47	3	Vertical	333	1.87	-
5825MHz	Pass	PK	5.8238G	120.74	Inf	-Inf	3	Vertical	333	1.87	-
5825MHz	Pass	PK	5.9246G	60.97	68.50	-7.53	3	Vertical	333	1.87	-
5825MHz	Pass	AV	5.8238G	109.46	Inf	-Inf	3	Horizontal	61	1.68	-
5825MHz	Pass	PK	5.6414G	58.00	68.20	-10.20	3	Horizontal	61	1.68	-
5825MHz	Pass	PK	5.8334G	120.51	Inf	-Inf	3	Horizontal	61	1.68	-
5825MHz	Pass	PK	5.9234G	64.31	69.38	-5.07	3	Horizontal	61	1.68	-
5825MHz	Pass	AV	11.64994G	41.97	54.00	-12.03	3	Vertical	76	2.49	-
5825MHz	Pass	PK	11.66458G	55.56	74.00	-18.44	3	Vertical	76	2.49	-
5825MHz	Pass	PK	17.47776G	63.46	68.20	-4.74	3	Vertical	0	1.00	-
5825MHz	Pass	AV	11.64988G	44.24	54.00	-9.76	3	Horizontal	113	2.03	-
5825MHz	Pass	PK	11.65132G	56.23	74.00	-17.77	3	Horizontal	113	2.03	-
5825MHz	Pass	PK	17.47224G	63.08	68.20	-5.12	3	Horizontal	0	1.19	-
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.15G	53.15	54.00	-0.85	3	Vertical	358	1.98	-
5190MHz	Pass	AV	5.1784G	104.98	Inf	-Inf	3	Vertical	358	1.98	-
5190MHz	Pass	PK	5.1396G	70.10	74.00	-3.90	3	Vertical	358	1.98	-
5190MHz	Pass	PK	5.1996G	117.46	Inf	-Inf	3	Vertical	358	1.98	-



RSE TX above 1GHz Non-Beamforming

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5190MHz	Pass	AV	5.134G	48.91	54.00	-5.09	3	Horizontal	230	1.80	-
5190MHz	Pass	AV	5.1948G	103.46	Inf	-Inf	3	Horizontal	230	1.80	-
5190MHz	Pass	PK	5.1344G	63.97	74.00	-10.03	3	Horizontal	230	1.80	-
5190MHz	Pass	PK	5.1944G	115.83	Inf	-Inf	3	Horizontal	230	1.80	-
5190MHz	Pass	AV	15.55G	46.78	54.00	-7.22	3	Vertical	222	1.48	-
5190MHz	Pass	PK	10.37982G	58.14	68.20	-10.06	3	Vertical	273	1.60	-
5190MHz	Pass	PK	15.55336G	60.74	74.00	-13.26	3	Vertical	222	1.48	-
5190MHz	Pass	AV	15.55G	46.72	54.00	-7.28	3	Horizontal	360	1.48	-
5190MHz	Pass	PK	10.37986G	60.87	68.20	-7.33	3	Horizontal	221	2.42	-
5190MHz	Pass	PK	15.55128G	59.93	74.00	-14.07	3	Horizontal	360	1.48	-
5230MHz	Pass	AV	5.144G	53.25	54.00	-0.75	3	Vertical	249	1.81	-
5230MHz	Pass	AV	5.2248G	108.09	Inf	-Inf	3	Vertical	249	1.81	-
5230MHz	Pass	PK	5.1436G	68.12	74.00	-5.88	3	Vertical	249	1.81	-
5230MHz	Pass	PK	5.2252G	120.95	Inf	-Inf	3	Vertical	249	1.81	-
5230MHz	Pass	AV	5.1352G	49.03	54.00	-4.97	3	Horizontal	228	1.65	-
5230MHz	Pass	AV	5.2348G	106.78	Inf	-Inf	3	Horizontal	228	1.65	-
5230MHz	Pass	PK	5.1348G	64.42	74.00	-9.58	3	Horizontal	228	1.65	-
5230MHz	Pass	PK	5.2348G	120.06	Inf	-Inf	3	Horizontal	228	1.65	-
5230MHz	Pass	AV	15.69264G	47.40	54.00	-6.60	3	Vertical	24	1.78	-
5230MHz	Pass	PK	10.45992G	56.49	68.20	-11.71	3	Vertical	273	1.52	-
5230MHz	Pass	PK	15.6944G	61.32	74.00	-12.68	3	Vertical	24	1.78	-
5230MHz	Pass	AV	15.68704G	46.77	54.00	-7.23	3	Horizontal	317	1.35	-
5230MHz	Pass	PK	10.45992G	60.27	68.20	-7.93	3	Horizontal	219	2.33	-
5230MHz	Pass	PK	15.70792G	60.14	74.00	-13.86	3	Horizontal	317	1.35	-
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	AV	5.7514G	104.96	Inf	-Inf	3	Vertical	130	1.85	-
5755MHz	Pass	PK	5.6566G	71.97	73.08	-1.11	3	Vertical	130	1.85	-
5755MHz	Pass	PK	5.7514G	117.59	Inf	-Inf	3	Vertical	130	1.85	-
5755MHz	Pass	PK	5.9938G	58.00	68.20	-10.20	3	Vertical	130	1.85	-
5755MHz	Pass	AV	5.7442G	105.82	Inf	-Inf	3	Horizontal	62	1.86	-
5755MHz	Pass	PK	5.653G	69.59	70.42	-0.83	3	Horizontal	62	1.86	-
5755MHz	Pass	PK	5.7538G	116.57	Inf	-Inf	3	Horizontal	62	1.86	-
5755MHz	Pass	PK	5.9362G	58.09	68.20	-10.11	3	Horizontal	62	1.86	-
5755MHz	Pass	AV	11.50997G	43.66	54.00	-10.34	3	Vertical	156	1.33	-
5755MHz	Pass	PK	11.50998G	55.89	74.00	-18.11	3	Vertical	156	1.33	-
5755MHz	Pass	PK	17.26972G	62.43	68.20	-5.77	3	Vertical	317	1.50	-
5755MHz	Pass	AV	11.51G	46.16	54.00	-7.84	3	Horizontal	116	1.65	-
5755MHz	Pass	PK	11.51006G	57.37	74.00	-16.63	3	Horizontal	116	1.65	-
5755MHz	Pass	PK	17.267G	62.97	68.20	-5.23	3	Horizontal	355	1.50	-
5795MHz	Pass	AV	5.7914G	105.96	Inf	-Inf	3	Vertical	131	1.93	-
5795MHz	Pass	PK	5.651G	63.82	68.94	-5.12	3	Vertical	131	1.93	-
5795MHz	Pass	PK	5.7926G	117.55	Inf	-Inf	3	Vertical	131	1.93	-
5795MHz	Pass	PK	5.927G	67.68	68.20	-0.52	3	Vertical	131	1.93	-
5795MHz	Pass	AV	5.7938G	106.96	Inf	-Inf	3	Horizontal	62	1.77	-
5795MHz	Pass	PK	5.6438G	64.64	68.20	-3.56	3	Horizontal	62	1.77	-
5795MHz	Pass	PK	5.7938G	118.74	Inf	-Inf	3	Horizontal	62	1.77	-
5795MHz	Pass	PK	5.927G	67.49	68.20	-0.71	3	Horizontal	62	1.77	-
5795MHz	Pass	AV	11.58996G	43.95	54.00	-10.05	3	Vertical	156	1.49	-
5795MHz	Pass	PK	11.59G	57.44	74.00	-16.56	3	Vertical	156	1.49	-
5795MHz	Pass	PK	17.3926G	63.34	68.20	-4.86	3	Vertical	283	2.81	-
5795MHz	Pass	AV	11.59G	45.32	54.00	-8.68	3	Horizontal	113	1.68	-
5795MHz	Pass	PK	11.59002G	56.94	74.00	-17.06	3	Horizontal	113	1.68	-
5795MHz	Pass	PK	17.39588G	63.50	68.20	-4.70	3	Horizontal	26	1.48	-
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.144G	53.62	54.00	-0.38	3	Vertical	252	1.80	-
5210MHz	Pass	AV	5.224G	100.95	Inf	-Inf	3	Vertical	252	1.80	-
5210MHz	Pass	AV	5.364G	44.44	54.00	-9.56	3	Vertical	252	1.80	-
5210MHz	Pass	PK	5.144G	65.77	74.00	-8.23	3	Vertical	252	1.80	-
5210MHz	Pass	PK	5.204G	112.33	Inf	-Inf	3	Vertical	252	1.80	-
5210MHz	Pass	PK	5.367G	57.20	74.00	-16.80	3	Vertical	252	1.80	-
5210MHz	Pass	AV	5.135G	51.08	54.00	-2.92	3	Horizontal	229	1.70	-
5210MHz	Pass	AV	5.215G	99.27	Inf	-Inf	3	Horizontal	229	1.70	-



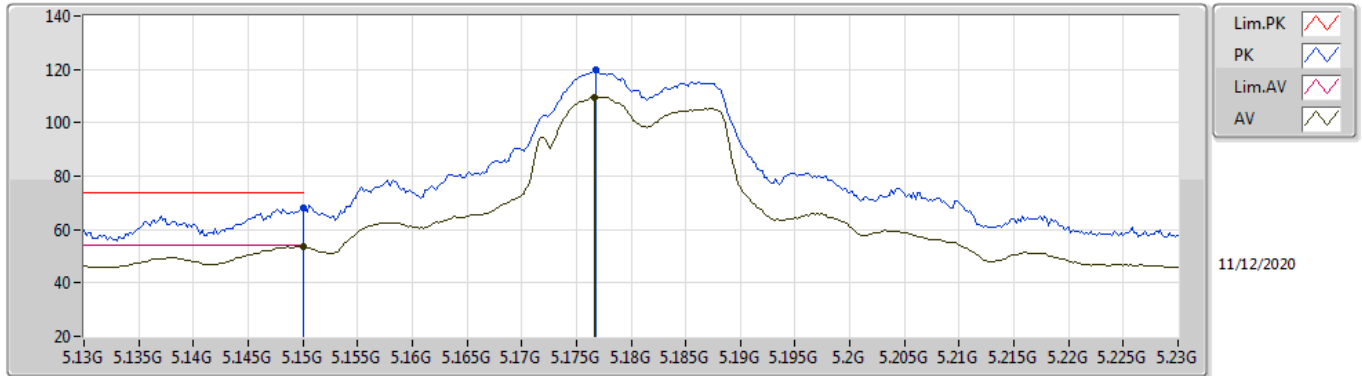
RSE TX above 1GHz _Non-Beamforming

Appendix E.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5210MHz	Pass	AV	5.357G	44.13	54.00	-9.87	3	Horizontal	229	1.70	-
5210MHz	Pass	PK	5.135G	63.09	74.00	-10.91	3	Horizontal	229	1.70	-
5210MHz	Pass	PK	5.213G	111.29	Inf	-Inf	3	Horizontal	229	1.70	-
5210MHz	Pass	PK	5.412G	56.73	74.00	-17.27	3	Horizontal	229	1.70	-
5210MHz	Pass	AV	15.61536G	45.61	54.00	-8.39	3	Vertical	219	2.54	-
5210MHz	Pass	PK	10.41978G	56.54	68.20	-11.66	3	Vertical	272	1.49	-
5210MHz	Pass	PK	15.64552G	58.72	74.00	-15.28	3	Vertical	219	2.54	-
5210MHz	Pass	AV	15.61576G	45.77	54.00	-8.23	3	Horizontal	220	1.48	-
5210MHz	Pass	PK	10.41984G	60.76	68.20	-7.44	3	Horizontal	217	2.41	-
5210MHz	Pass	PK	15.6364G	58.84	74.00	-15.16	3	Horizontal	220	1.48	-
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	AV	5.7606G	98.64	Inf	-Inf	3	Vertical	128	1.80	-
5775MHz	Pass	PK	5.6502G	65.81	68.35	-2.54	3	Vertical	128	1.80	-
5775MHz	Pass	PK	5.7606G	110.67	Inf	-Inf	3	Vertical	128	1.80	-
5775MHz	Pass	PK	5.9286G	61.71	68.20	-6.49	3	Vertical	128	1.80	-
5775MHz	Pass	AV	5.7438G	99.51	Inf	-Inf	3	Horizontal	64	1.75	-
5775MHz	Pass	PK	5.6502G	68.09	68.35	-0.26	3	Horizontal	64	1.75	-
5775MHz	Pass	PK	5.7438G	111.82	Inf	-Inf	3	Horizontal	64	1.75	-
5775MHz	Pass	PK	5.9274G	61.98	68.20	-6.22	3	Horizontal	64	1.75	-
5775MHz	Pass	AV	11.55002G	44.34	54.00	-9.66	3	Vertical	154	1.18	-
5775MHz	Pass	PK	11.5499G	56.78	74.00	-17.22	3	Vertical	154	1.18	-
5775MHz	Pass	PK	17.335G	62.83	68.20	-5.37	3	Vertical	205	1.38	-
5775MHz	Pass	AV	11.54992G	45.41	54.00	-8.59	3	Horizontal	109	1.64	-
5775MHz	Pass	PK	11.54976G	56.70	74.00	-17.30	3	Horizontal	109	1.64	-
5775MHz	Pass	PK	17.34028G	62.81	68.20	-5.39	3	Horizontal	223	1.49	-

802.11a_Nss1,(6Mbps)_4TX

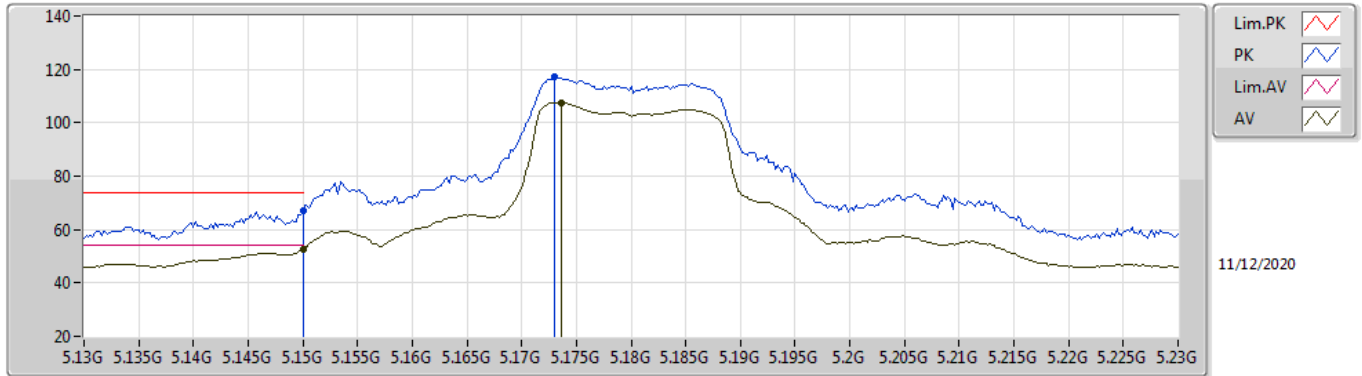
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	53.60	54.00	-0.40	5.99	3	Vertical	323	1.45	-	47.61	31.70	8.52	34.23
AV	5.1766G	109.59	Inf	-Inf	5.91	3	Vertical	323	1.45	-	103.68	31.59	8.55	34.23
PK	5.15G	67.87	74.00	-6.13	5.99	3	Vertical	323	1.45	-	61.88	31.70	8.52	34.23
PK	5.1768G	119.70	Inf	-Inf	5.91	3	Vertical	323	1.45	-	113.79	31.59	8.55	34.23

802.11a_Nss1,(6Mbps)_4TX

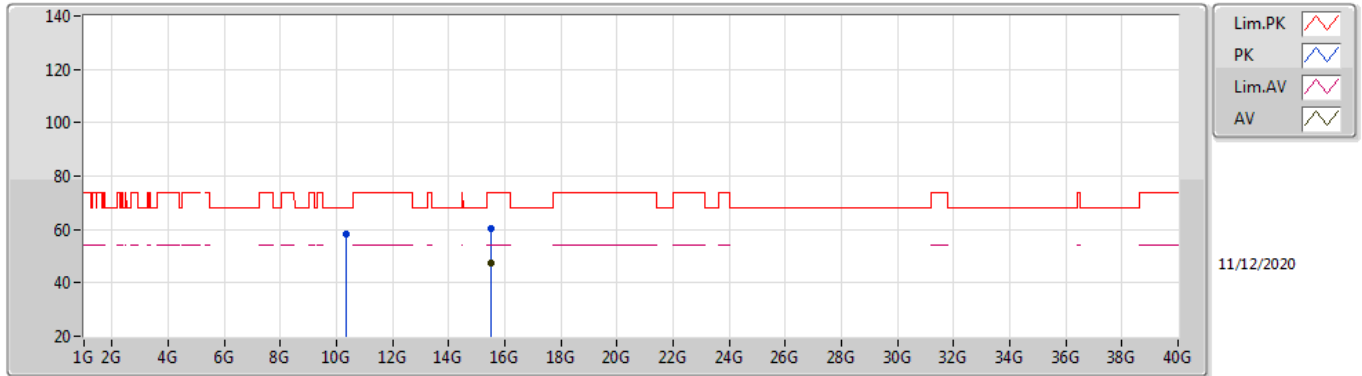
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	52.78	54.00	-1.22	5.99	3	Horizontal	320	1.77	-	46.79	31.70	8.52	34.23
AV	5.1736G	107.51	Inf	-Inf	5.92	3	Horizontal	320	1.77	-	101.59	31.61	8.54	34.23
PK	5.15G	67.15	74.00	-6.85	5.99	3	Horizontal	320	1.77	-	61.16	31.70	8.52	34.23
PK	5.173G	117.13	Inf	-Inf	5.92	3	Horizontal	320	1.77	-	111.21	31.61	8.54	34.23

802.11a_Nss1,(6Mbps)_4TX

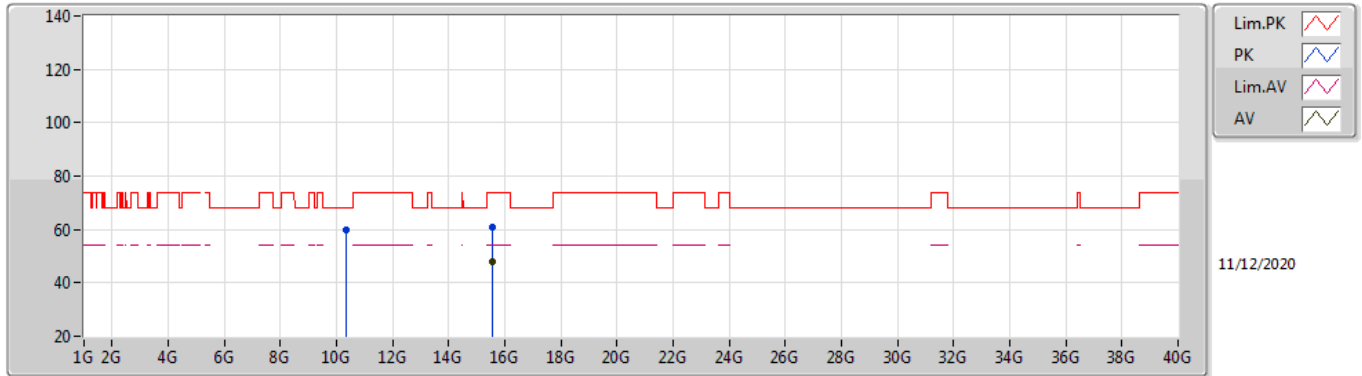
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.53096G	47.30	54.00	-6.70	18.52	3	Vertical	196	1.49	-	28.78	38.28	14.61	34.37
PK	10.35993G	58.11	68.20	-10.09	16.88	3	Vertical	238	1.93	-	41.23	39.38	12.18	34.68
PK	15.53088G	60.45	74.00	-13.55	18.52	3	Vertical	196	1.49	-	41.93	38.28	14.61	34.37

802.11a_Nss1,(6Mbps)_4TX

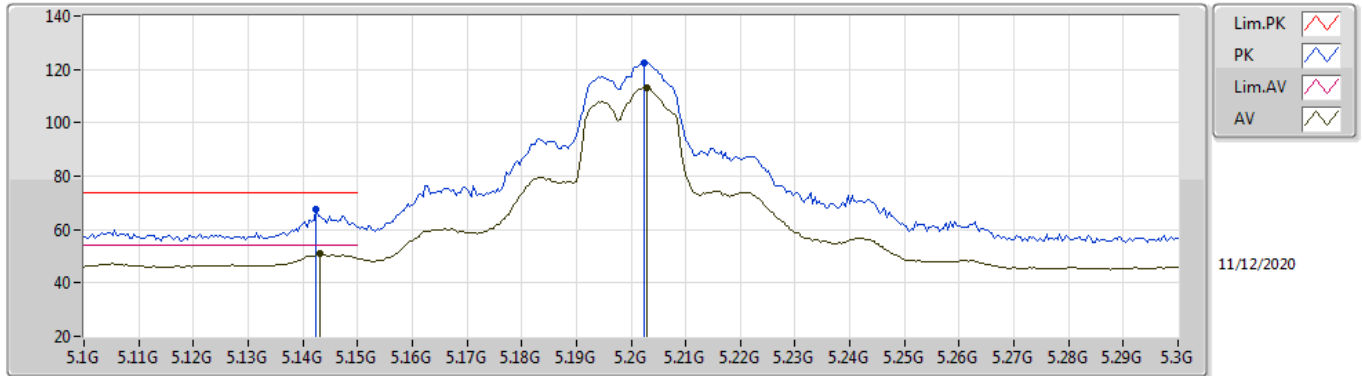
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.53356G	47.86	54.00	-6.14	18.51	3	Horizontal	327	1.49	-	29.35	38.27	14.61	34.37
PK	10.35994G	59.94	68.20	-8.26	16.88	3	Horizontal	226	2.42	-	43.06	39.38	12.18	34.68
PK	15.53412G	60.96	74.00	-13.04	18.50	3	Horizontal	327	1.49	-	42.46	38.26	14.61	34.37

802.11a_Nss1,(6Mbps)_4TX

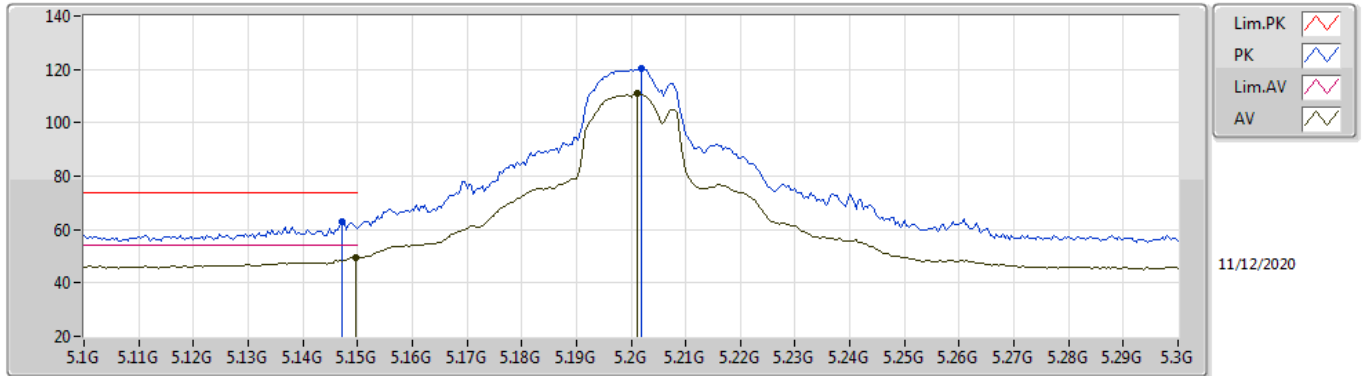
5200MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1432G	50.92	54.00	-3.08	5.99	3	Vertical	21	2.53	-	44.93	31.70	8.52	34.23
AV	5.2028G	112.92	Inf	-Inf	5.81	3	Vertical	21	2.53	-	107.11	31.48	8.57	34.24
PK	5.1424G	67.44	74.00	-6.56	5.99	3	Vertical	21	2.53	-	61.45	31.70	8.52	34.23
PK	5.2024G	122.33	Inf	-Inf	5.82	3	Vertical	21	2.53	-	116.51	31.49	8.57	34.24

802.11a_Nss1,(6Mbps)_4TX

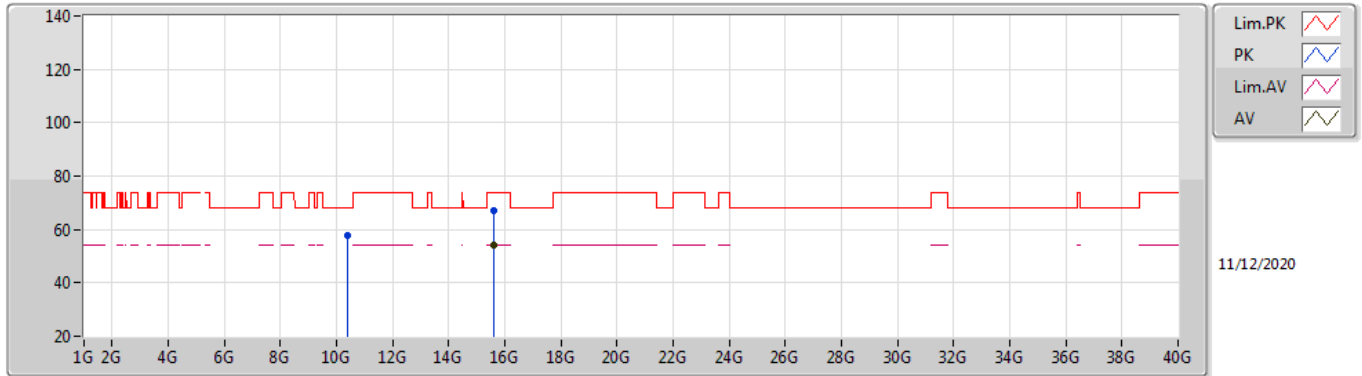
5200MHz_TX



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	5.1496G	49.50	54.00	-4.50	5.99	3	Horizontal	295	1.91	-	43.51	31.70	8.52	34.23
AV	5.2012G	111.05	Inf	-Inf	5.82	3	Horizontal	295	1.91	-	105.23	31.49	8.57	34.24
PK	5.1472G	62.83	74.00	-11.17	5.99	3	Horizontal	295	1.91	-	56.84	31.70	8.52	34.23
PK	5.202G	120.23	Inf	-Inf	5.82	3	Horizontal	295	1.91	-	114.41	31.49	8.57	34.24

802.11a_Nss1,(6Mbps)_4TX

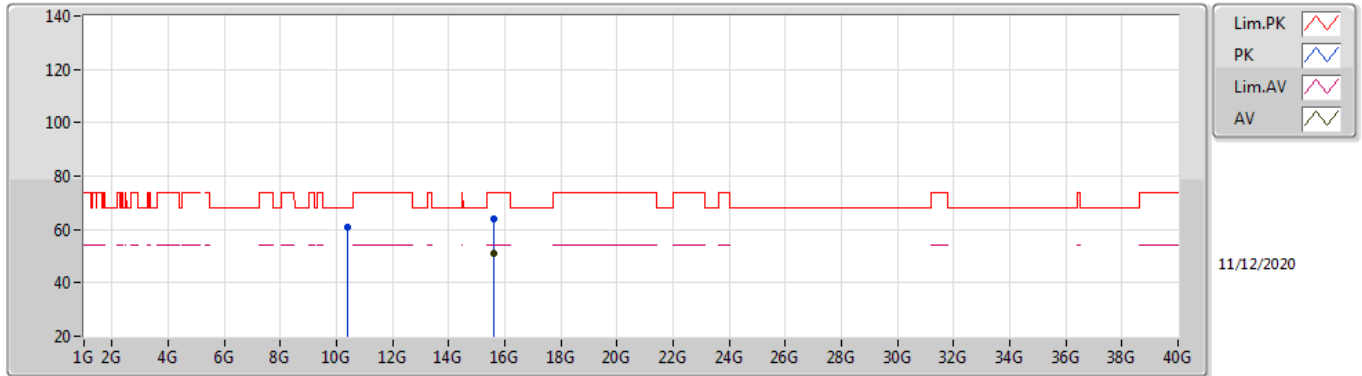
5200MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.6024G	53.94	54.00	-0.06	17.99	3	Vertical	302	2.33	-	35.95	37.80	14.62	34.43
PK	10.39985G	57.52	68.20	-10.68	17.05	3	Vertical	230	1.24	-	40.47	39.50	12.20	34.65
PK	15.6009G	66.94	74.00	-7.06	17.99	3	Vertical	302	2.33	-	48.95	37.80	14.62	34.43

802.11a_Nss1,(6Mbps)_4TX

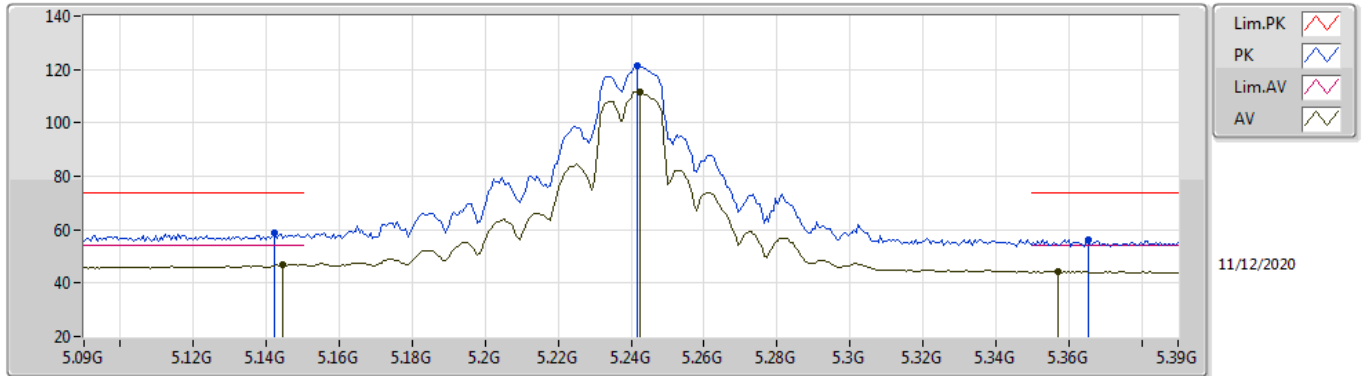
5200MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.6065G	50.84	54.00	-3.16	17.99	3	Horizontal	217	1.50	-	32.85	37.81	14.62	34.44
PK	10.39992G	60.88	68.20	-7.32	17.05	3	Horizontal	214	2.41	-	43.83	39.50	12.20	34.65
PK	15.6088G	63.98	74.00	-10.02	18.00	3	Horizontal	217	1.50	-	45.98	37.82	14.62	34.44

802.11a_Nss1,(6Mbps)_4TX

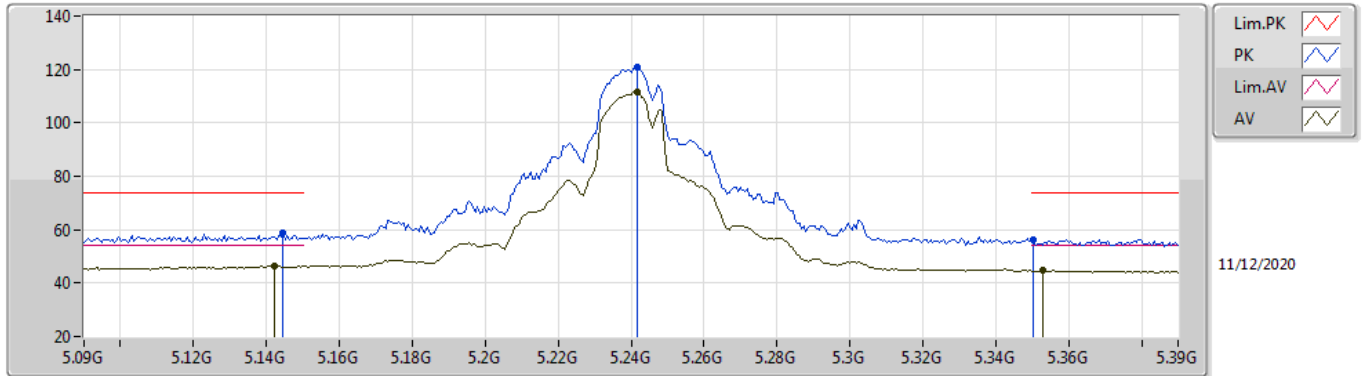
5240MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1446G	46.95	54.00	-7.05	5.99	3	Vertical	295	2.16	-	40.96	31.70	8.52	34.23
AV	5.2424G	111.65	Inf	-Inf	5.59	3	Vertical	295	2.16	-	106.06	31.25	8.58	34.24
AV	5.357G	44.45	54.00	-9.55	5.39	3	Vertical	295	2.16	-	39.06	31.04	8.60	34.25
PK	5.1422G	58.95	74.00	-15.05	5.99	3	Vertical	295	2.16	-	52.96	31.70	8.52	34.23
PK	5.2418G	121.54	Inf	-Inf	5.59	3	Vertical	295	2.16	-	115.95	31.25	8.58	34.24
PK	5.3654G	56.45	74.00	-17.55	5.44	3	Vertical	295	2.16	-	51.01	31.09	8.60	34.25

802.11a_Nss1,(6Mbps)_4TX

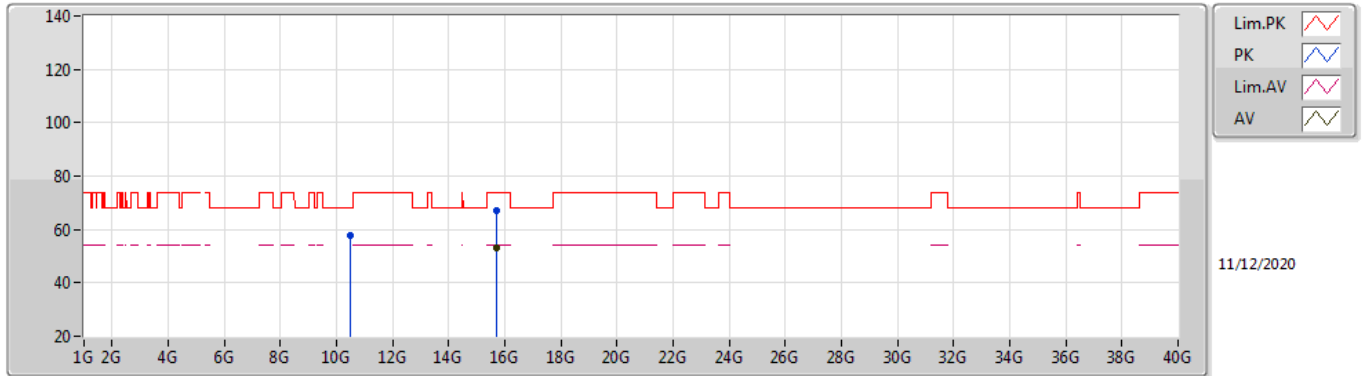
5240MHz_TX



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	5.1422G	46.51	54.00	-7.49	5.99	3	Horizontal	296	1.92	-	40.52	31.70	8.52	34.23
AV	5.2418G	111.60	Inf	-Inf	5.59	3	Horizontal	296	1.92	-	106.01	31.25	8.58	34.24
AV	5.3528G	44.87	54.00	-9.13	5.37	3	Horizontal	296	1.92	-	39.50	31.02	8.60	34.25
PK	5.1446G	58.76	74.00	-15.24	5.99	3	Horizontal	296	1.92	-	52.77	31.70	8.52	34.23
PK	5.2418G	120.80	Inf	-Inf	5.59	3	Horizontal	296	1.92	-	115.21	31.25	8.58	34.24
PK	5.3504G	56.36	74.00	-17.64	5.35	3	Horizontal	296	1.92	-	51.01	31.00	8.60	34.25

802.11a_Nss1,(6Mbps)_4TX

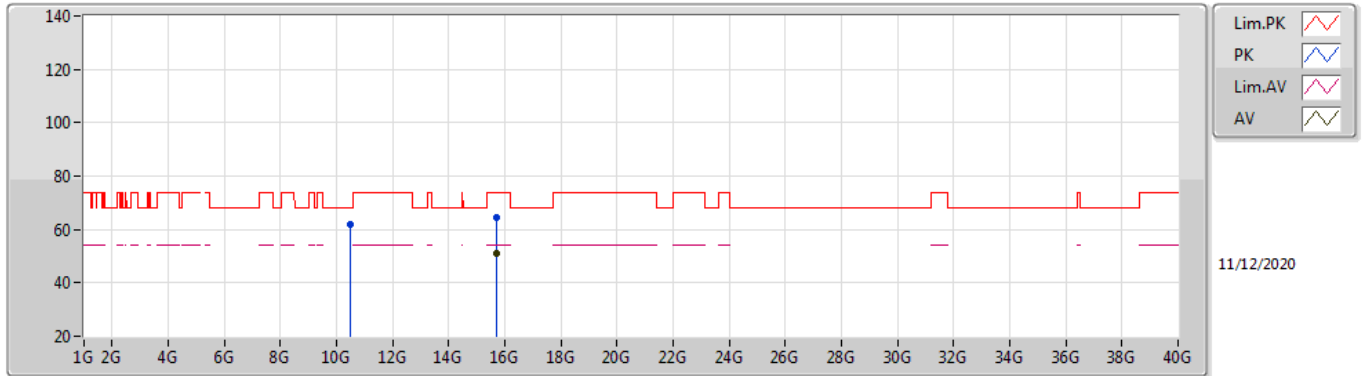
5240MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.7209G	53.02	54.00	-0.98	18.03	3	Vertical	29	2.08	-	34.99	37.92	14.65	34.54
PK	10.47981G	57.60	68.20	-10.60	17.31	3	Vertical	273	1.56	-	40.29	39.66	12.24	34.59
PK	15.72258G	67.10	74.00	-6.90	18.02	3	Vertical	29	2.08	-	49.08	37.91	14.65	34.54

802.11a_Nss1,(6Mbps)_4TX

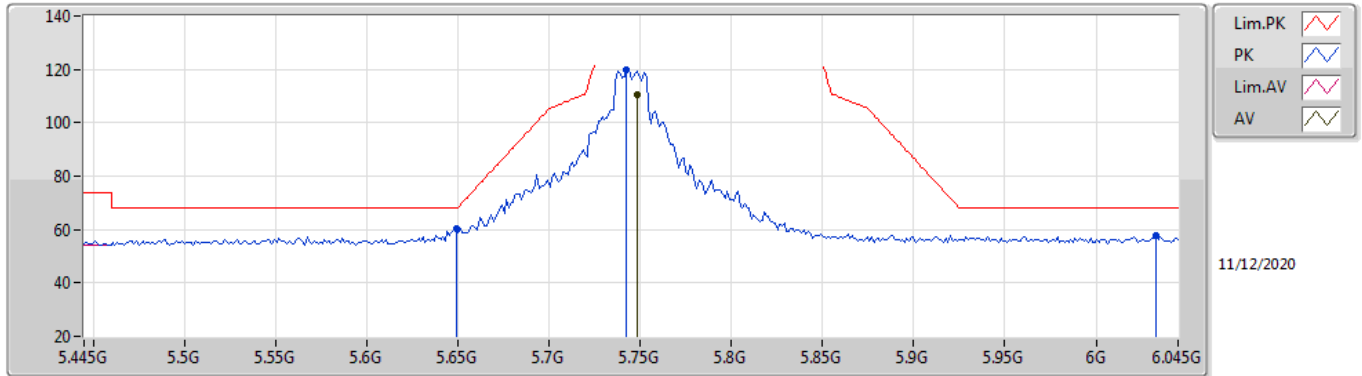
5240MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.72224G	51.25	54.00	-2.75	18.02	3	Horizontal	218	1.60	-	33.23	37.91	14.65	34.54
PK	10.47992G	61.77	68.20	-6.43	17.31	3	Horizontal	220	2.38	-	44.46	39.66	12.24	34.59
PK	15.72168G	64.29	74.00	-9.71	18.02	3	Horizontal	218	1.60	-	46.27	37.91	14.65	34.54

802.11a_Nss1,(6Mbps)_2TX

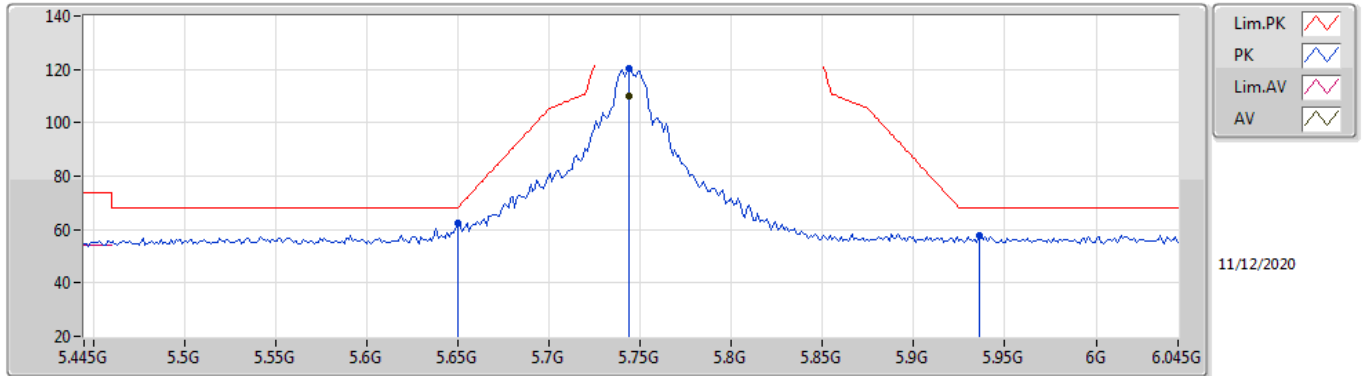
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7486G	110.33	Inf	-Inf	6.74	3	Vertical	132	1.76	-	103.59	31.99	9.03	34.28
PK	5.649G	60.23	68.20	-7.97	6.37	3	Vertical	132	1.76	-	53.86	31.70	8.94	34.27
PK	5.7426G	119.99	Inf	-Inf	6.72	3	Vertical	132	1.76	-	113.27	31.97	9.03	34.28
PK	6.033G	57.57	68.20	-10.63	7.22	3	Vertical	132	1.76	-	50.35	32.33	9.20	34.31

802.11a_Nss1,(6Mbps)_2TX

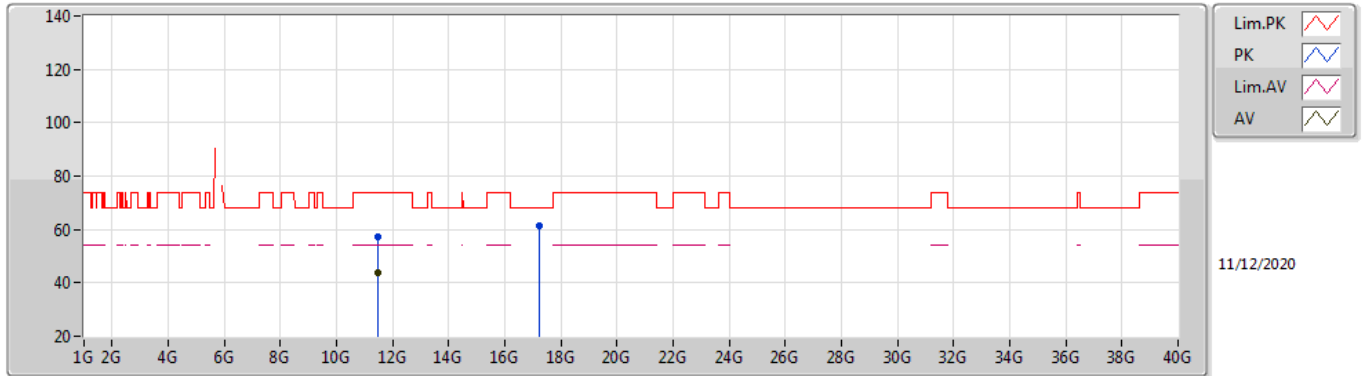
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7438G	110.14	Inf	-Inf	6.73	3	Horizontal	64	1.81	-	103.41	31.98	9.03	34.28
PK	5.6502G	62.24	68.35	-6.11	6.37	3	Horizontal	64	1.81	-	55.87	31.70	8.95	34.28
PK	5.7438G	120.17	Inf	-Inf	6.73	3	Horizontal	64	1.81	-	113.44	31.98	9.03	34.28
PK	5.9358G	57.79	68.20	-10.41	7.14	3	Horizontal	64	1.81	-	50.65	32.30	9.14	34.30

802.11a_Nss1,(6Mbps)_2TX

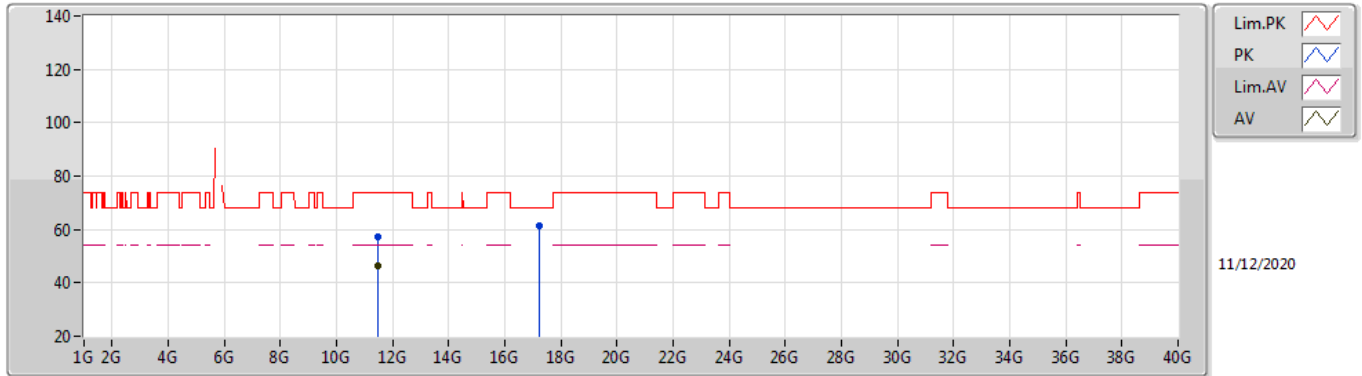
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.48988G	43.90	54.00	-10.10	18.57	3	Vertical	75	1.31	-	25.33	39.98	12.75	34.16
PK	11.49612G	57.24	74.00	-16.76	18.59	3	Vertical	75	1.31	-	38.65	39.99	12.76	34.16
PK	17.22522G	61.45	68.20	-6.75	21.33	3	Vertical	223	2.06	-	40.12	39.58	15.03	33.28

802.11a_Nss1,(6Mbps)_2TX

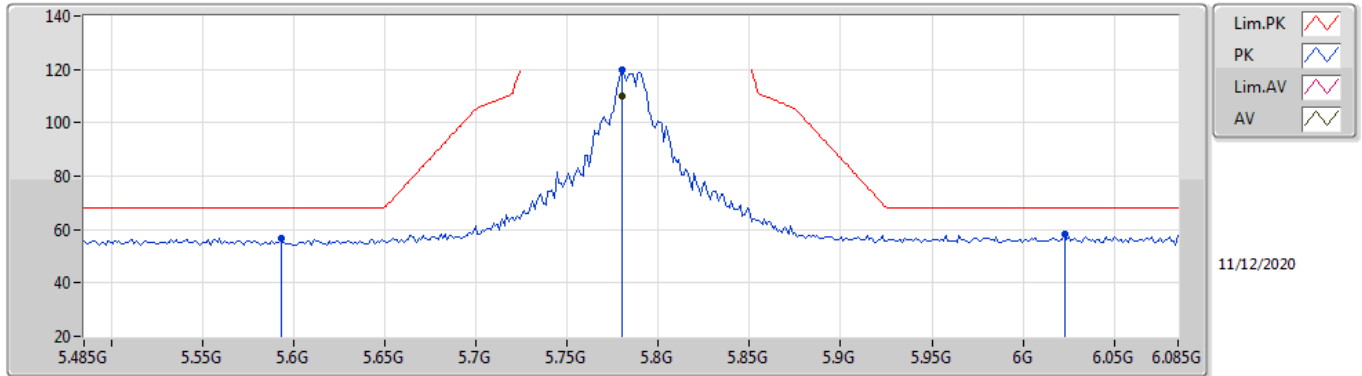
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.48988G	46.54	54.00	-7.46	18.57	3	Horizontal	111	2.05	-	27.97	39.98	12.75	34.16
PK	11.49012G	57.47	74.00	-16.53	18.57	3	Horizontal	111	2.05	-	38.90	39.98	12.75	34.16
PK	17.23734G	61.36	68.20	-6.84	21.37	3	Horizontal	1	2.31	-	39.99	39.61	15.04	33.28

802.11a_Nss1,(6Mbps)_2TX

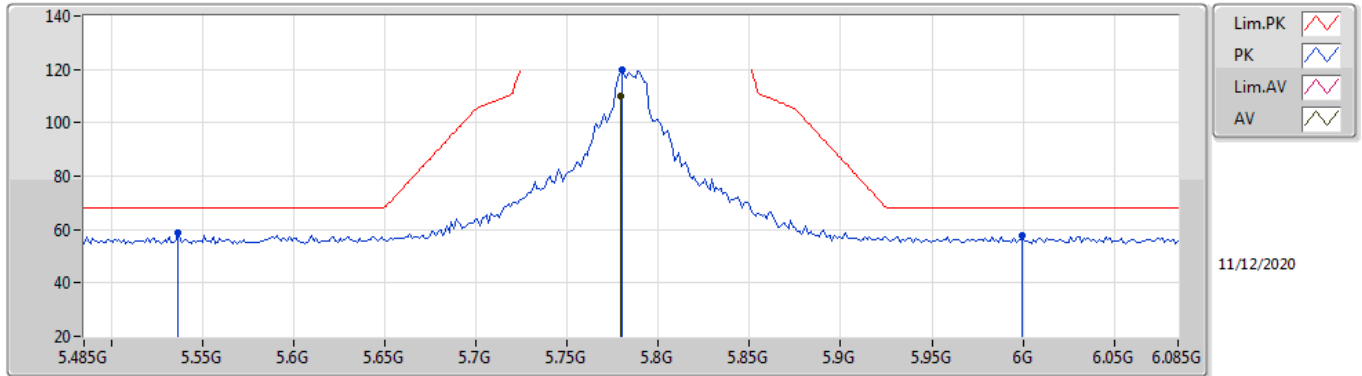
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7802G	110.07	Inf	-Inf	6.77	3	Vertical	333	1.69	-	103.30	32.00	9.06	34.29
PK	5.593G	56.56	68.20	-11.64	6.22	3	Vertical	333	1.69	-	50.34	31.60	8.89	34.27
PK	5.7802G	119.79	Inf	-Inf	6.77	3	Vertical	333	1.69	-	113.02	32.00	9.06	34.29
PK	6.0226G	58.52	68.20	-9.68	7.23	3	Vertical	333	1.69	-	51.29	32.35	9.19	34.31

802.11a_Nss1,(6Mbps)_2TX

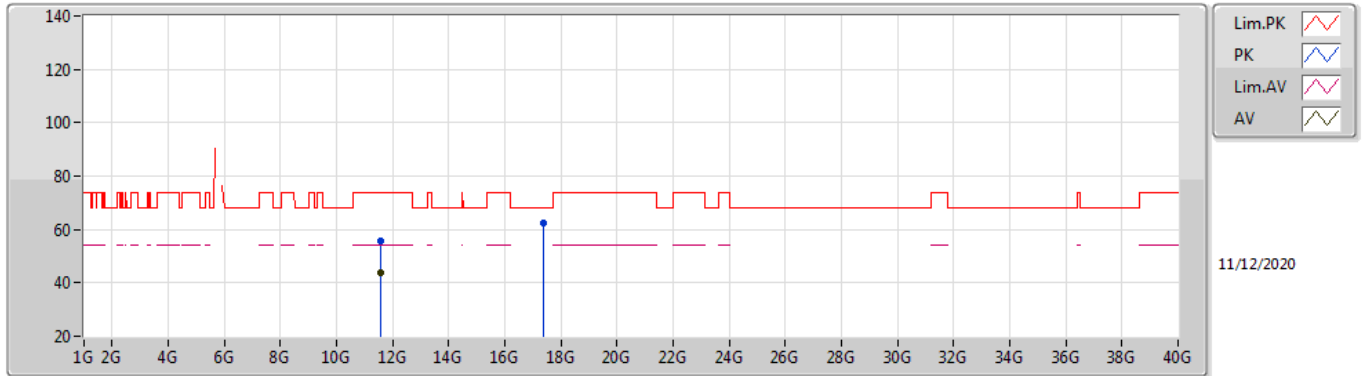
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.779G	110.02	Inf	-Inf	6.77	3	Horizontal	62	1.73	-	103.25	32.00	9.06	34.29
PK	5.5366G	58.67	68.20	-9.53	6.18	3	Horizontal	62	1.73	-	52.49	31.63	8.81	34.26
PK	5.7802G	119.87	Inf	-Inf	6.77	3	Horizontal	62	1.73	-	113.10	32.00	9.06	34.29
PK	5.9998G	57.79	68.20	-10.41	7.26	3	Horizontal	62	1.73	-	50.53	32.40	9.17	34.31

802.11a_Nss1,(6Mbps)_2TX

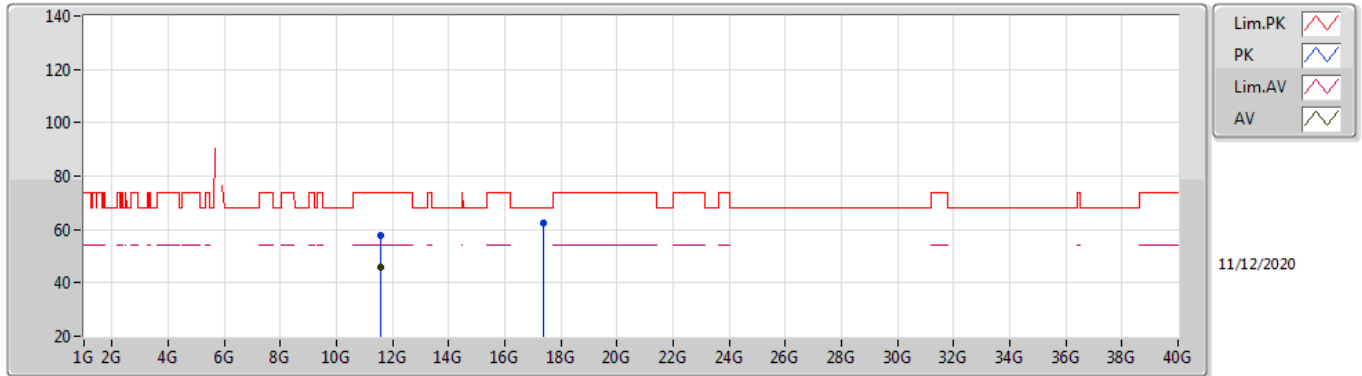
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.56976G	44.02	54.00	-9.98	18.53	3	Vertical	155	1.29	-	25.49	39.93	12.79	34.19
PK	11.57222G	55.57	74.00	-18.43	18.53	3	Vertical	155	1.29	-	37.04	39.93	12.79	34.19
PK	17.35926G	62.51	68.20	-5.69	22.10	3	Vertical	180	1.49	-	40.41	40.27	15.07	33.24

802.11a_Nss1,(6Mbps)_2TX

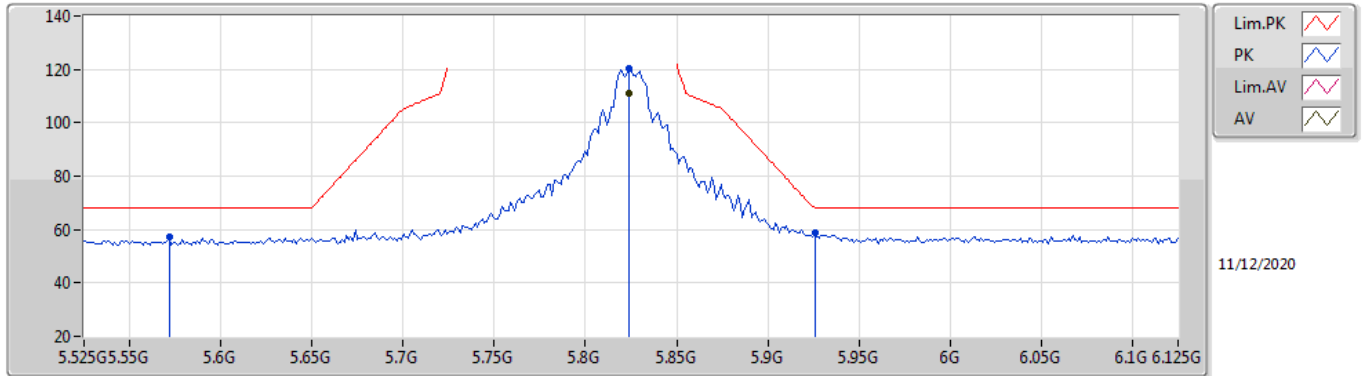
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.57G	46.11	54.00	-7.89	18.53	3	Horizontal	113	2.02	-	27.58	39.93	12.79	34.19
PK	11.5706G	57.80	74.00	-16.20	18.53	3	Horizontal	113	2.02	-	39.27	39.93	12.79	34.19
PK	17.36298G	62.38	68.20	-5.82	22.13	3	Horizontal	128	2.81	-	40.25	40.30	15.07	33.24

802.11a_Nss1,(6Mbps)_2TX

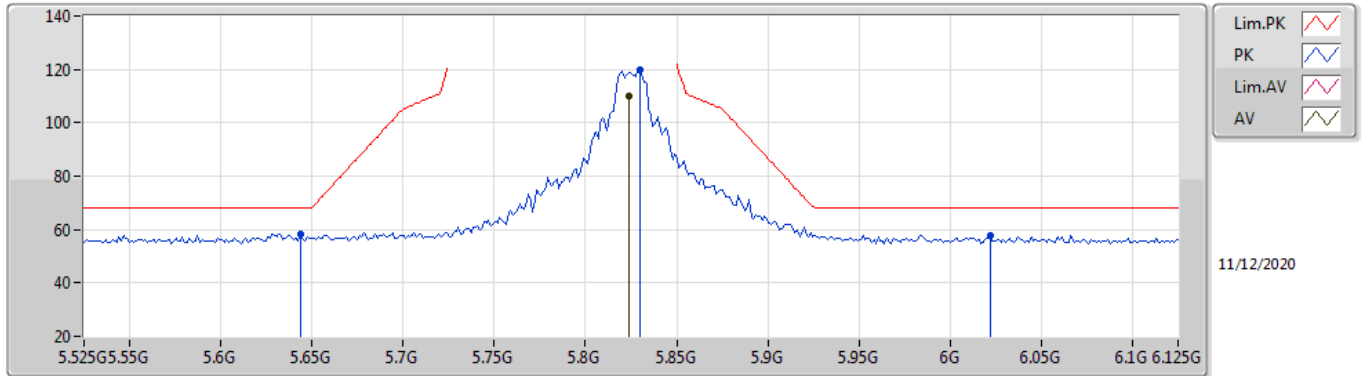
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.8238G	110.79	Inf	-Inf	6.90	3	Vertical	336	1.87	-	103.89	32.10	9.09	34.29
PK	5.5718G	57.02	68.20	-11.18	6.19	3	Vertical	336	1.87	-	50.83	31.60	8.86	34.27
PK	5.8238G	120.09	Inf	-Inf	6.90	3	Vertical	336	1.87	-	113.19	32.10	9.09	34.29
PK	5.9258G	58.83	68.20	-9.37	7.14	3	Vertical	336	1.87	-	51.69	32.30	9.14	34.30

802.11a_Nss1,(6Mbps)_2TX

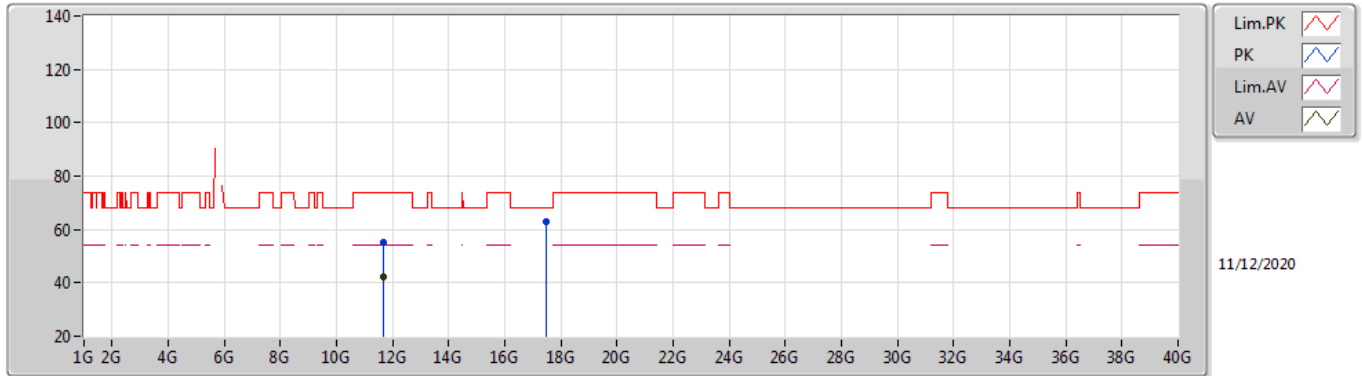
5825MHz_TX



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	5.8238G	109.95	Inf	-Inf	6.90	3	Horizontal	63	1.74	-	103.05	32.10	9.09	34.29
PK	5.6438G	58.28	68.20	-9.92	6.36	3	Horizontal	63	1.74	-	51.92	31.69	8.94	34.27
PK	5.8298G	119.67	Inf	-Inf	6.92	3	Horizontal	63	1.74	-	112.75	32.12	9.09	34.29
PK	6.0218G	57.84	68.20	-10.36	7.24	3	Horizontal	63	1.74	-	50.60	32.36	9.19	34.31

802.11a_Nss1,(6Mbps)_2TX

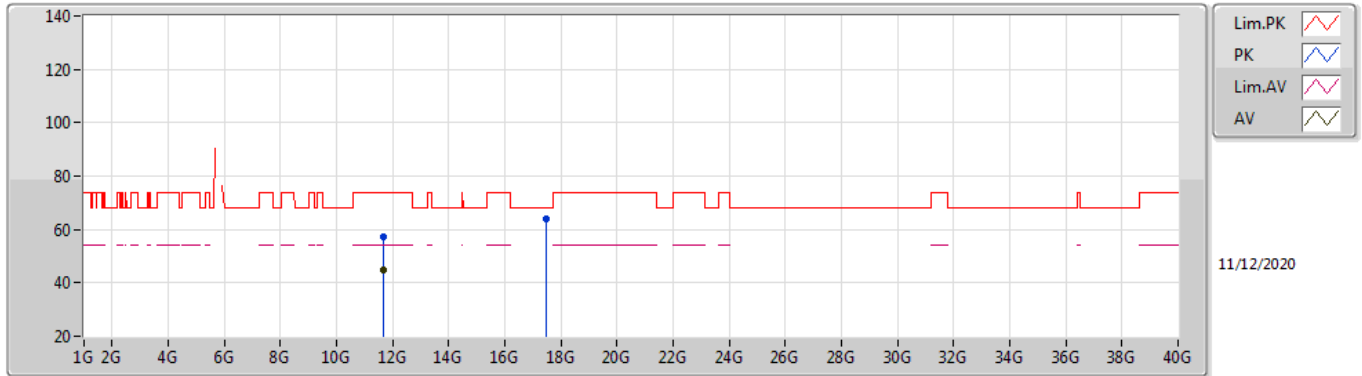
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.64796G	42.36	54.00	-11.64	18.16	3	Vertical	115	1.49	-	24.20	39.56	12.83	34.23
PK	11.6476G	55.08	74.00	-18.92	18.17	3	Vertical	115	1.49	-	36.91	39.57	12.83	34.23
PK	17.46816G	62.83	68.20	-5.37	22.90	3	Vertical	360	1.48	-	39.93	41.01	15.09	33.20

802.11a_Nss1,(6Mbps)_2TX

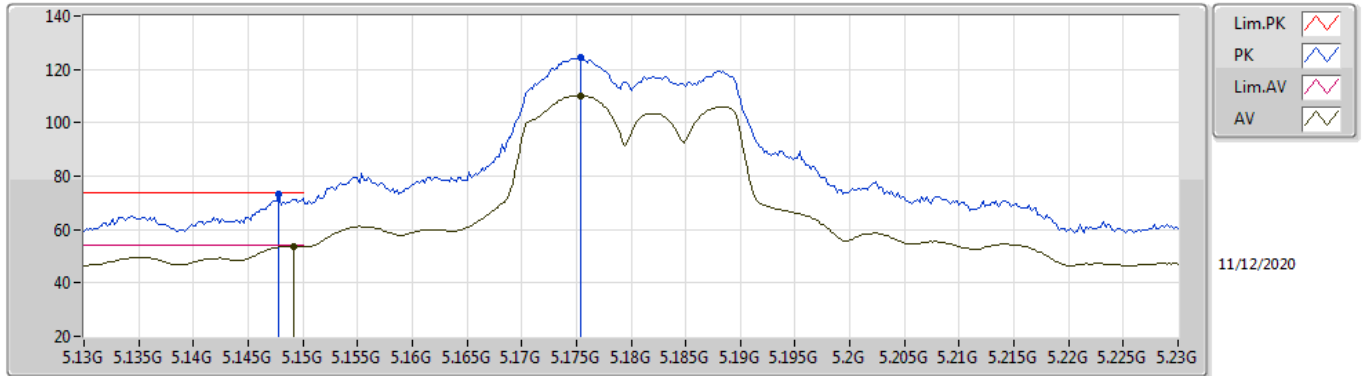
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.64994G	45.00	54.00	-9.00	18.15	3	Horizontal	112	2.04	-	26.85	39.55	12.83	34.23
PK	11.65012G	57.14	74.00	-16.86	18.15	3	Horizontal	112	2.04	-	38.99	39.55	12.83	34.23
PK	17.47488G	63.72	68.20	-4.48	22.95	3	Horizontal	331	1.50	-	40.77	41.05	15.10	33.20

802.11ax HEW20_Nss1,(MCS0)_4TX

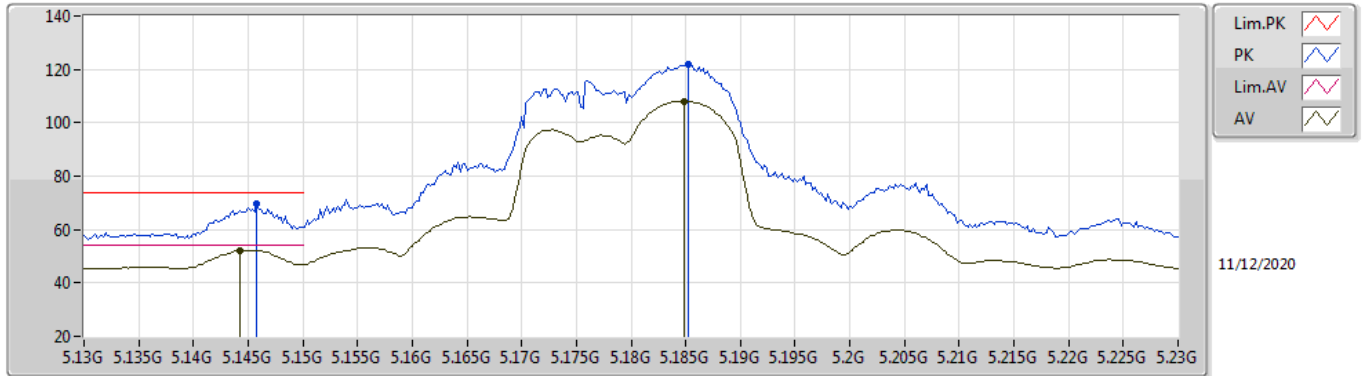
5180MHz_TX



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	5.1492G	53.86	54.00	-0.14	5.99	3	Vertical	247	1.81	-	47.87	31.70	8.52	34.23
AV	5.1754G	110.24	Inf	-Inf	5.92	3	Vertical	247	1.81	-	104.32	31.60	8.55	34.23
PK	5.1478G	73.29	74.00	-0.71	5.99	3	Vertical	247	1.81	-	67.30	31.70	8.52	34.23
PK	5.1754G	124.33	Inf	-Inf	5.92	3	Vertical	247	1.81	-	118.41	31.60	8.55	34.23

802.11ax HEW20_Nss1,(MCS0)_4TX

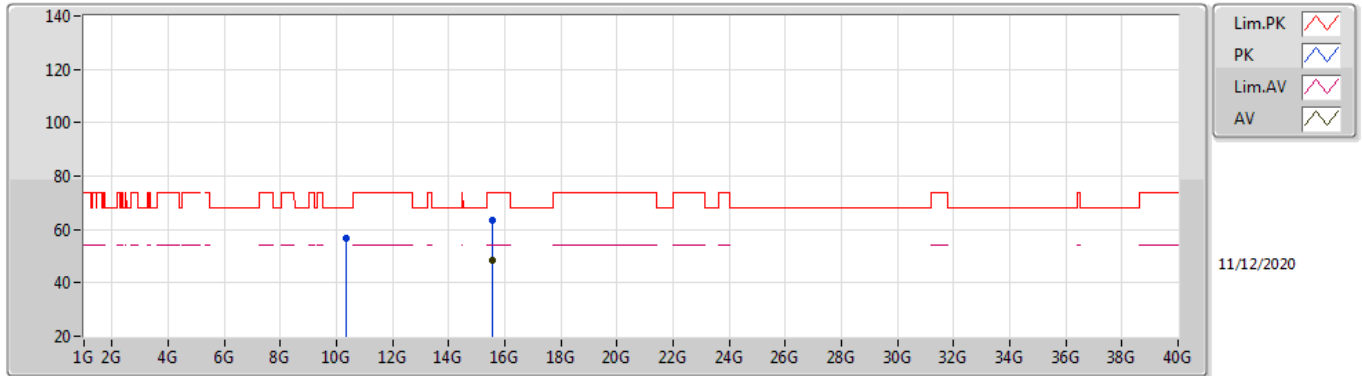
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1442G	52.27	54.00	-1.73	5.99	3	Horizontal	228	1.77	-	46.28	31.70	8.52	34.23
AV	5.1848G	108.10	Inf	-Inf	5.89	3	Horizontal	228	1.77	-	102.21	31.56	8.56	34.23
PK	5.1458G	69.46	74.00	-4.54	5.99	3	Horizontal	228	1.77	-	63.47	31.70	8.52	34.23
PK	5.1852G	121.71	Inf	-Inf	5.89	3	Horizontal	228	1.77	-	115.82	31.56	8.56	34.23

802.11ax HEW20_Nss1,(MCS0)_4TX

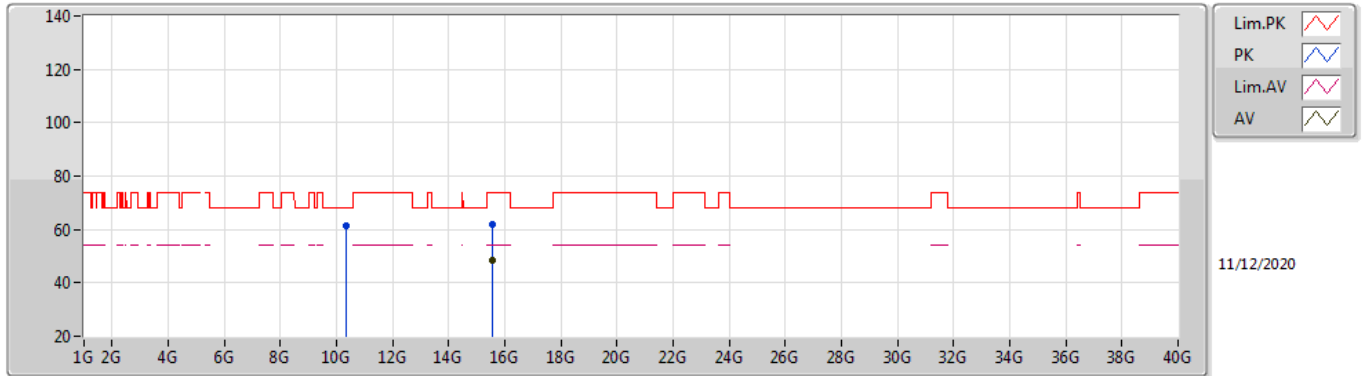
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.53602G	48.40	54.00	-5.60	18.49	3	Vertical	189	2.88	-	29.91	38.25	14.61	34.37
PK	10.35966G	56.55	68.20	-11.65	16.88	3	Vertical	223	1.49	-	39.67	39.38	12.18	34.68
PK	15.5379G	63.60	74.00	-10.40	18.47	3	Vertical	189	2.88	-	45.13	38.23	14.61	34.37

802.11ax HEW20_Nss1,(MCS0)_4TX

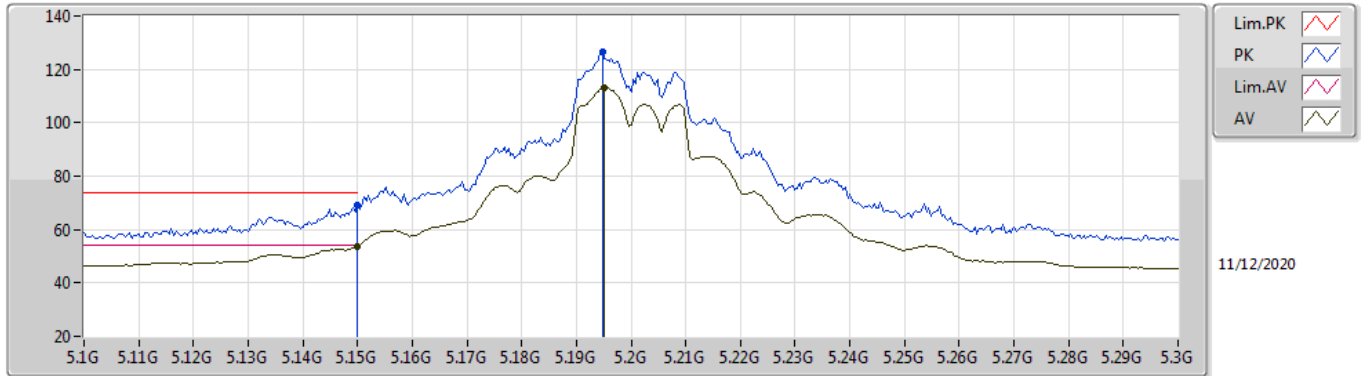
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.53618G	48.41	54.00	-5.59	18.49	3	Horizontal	217	1.50	-	29.92	38.25	14.61	34.37
PK	10.35988G	61.18	68.20	-7.02	16.88	3	Horizontal	213	2.44	-	44.30	39.38	12.18	34.68
PK	15.53544G	61.80	74.00	-12.20	18.49	3	Horizontal	217	1.50	-	43.31	38.25	14.61	34.37

802.11ax HEW20_Nss1,(MCS0)_4TX

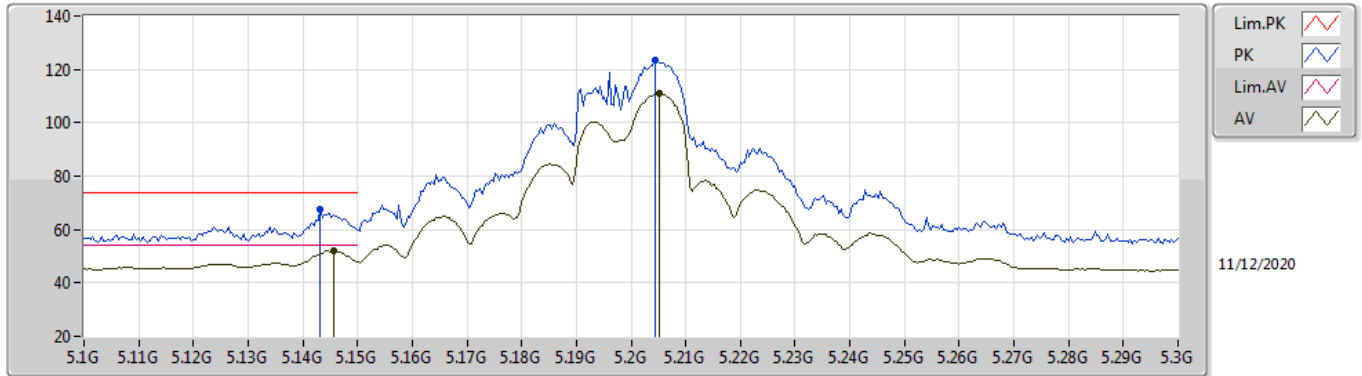
5200MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.15G	53.66	54.00	-0.34	5.99	3	Vertical	245	1.82	-	47.67	31.70	8.52	34.23
AV	5.1952G	112.91	Inf	-Inf	5.85	3	Vertical	245	1.82	-	107.06	31.52	8.57	34.24
PK	5.15G	68.92	74.00	-5.08	5.99	3	Vertical	245	1.82	-	62.93	31.70	8.52	34.23
PK	5.1948G	126.60	Inf	-Inf	5.85	3	Vertical	245	1.82	-	120.75	31.52	8.57	34.24

802.11ax HEW20_Nss1,(MCS0)_4TX

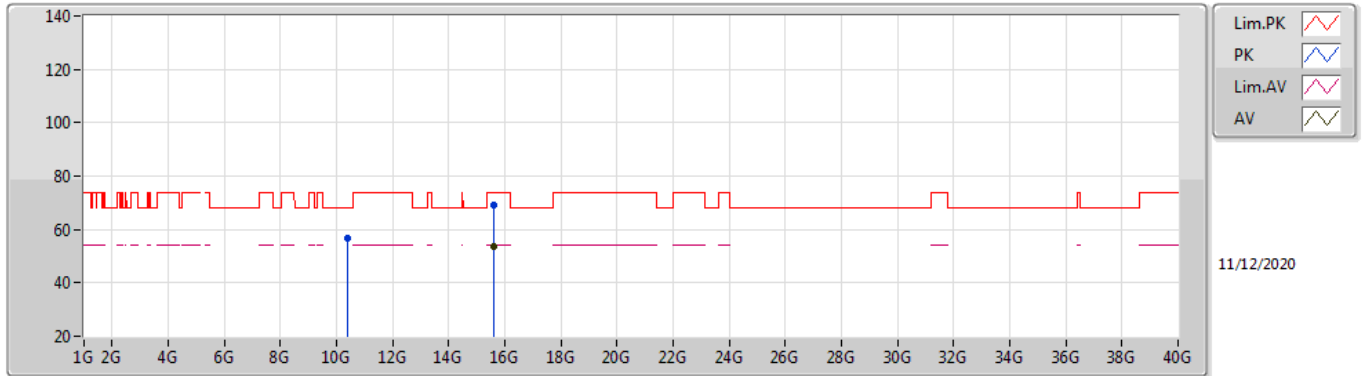
5200MHz_TX



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	5.1456G	52.08	54.00	-1.92	5.99	3	Horizontal	228	1.76	-	46.09	31.70	8.52	34.23
AV	5.2052G	111.07	Inf	-Inf	5.80	3	Horizontal	228	1.76	-	105.27	31.47	8.57	34.24
PK	5.1432G	67.72	74.00	-6.28	5.99	3	Horizontal	228	1.76	-	61.73	31.70	8.52	34.23
PK	5.2044G	123.39	Inf	-Inf	5.80	3	Horizontal	228	1.76	-	117.59	31.47	8.57	34.24

802.11ax HEW20_Nss1,(MCS0)_4TX

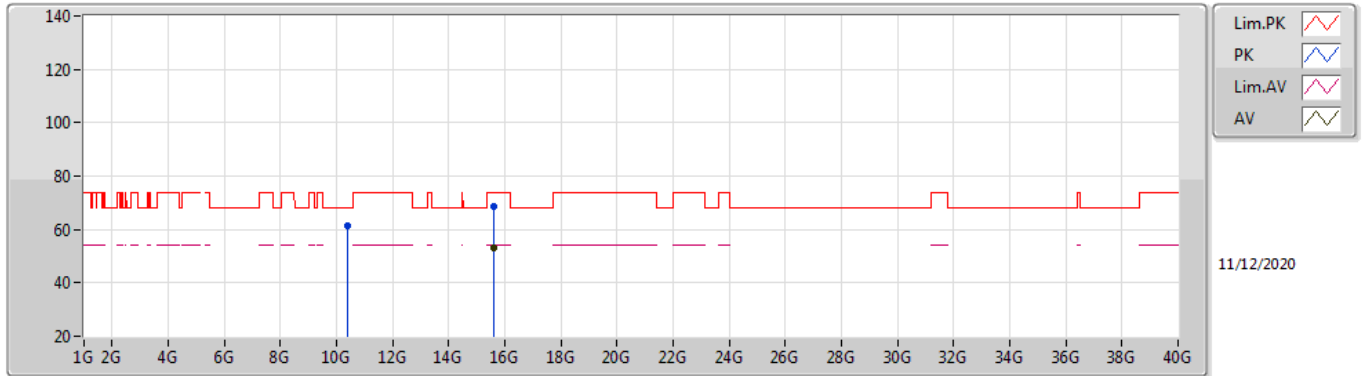
5200MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.60224G	53.51	54.00	-0.49	17.99	3	Vertical	27	1.74	-	35.52	37.80	14.62	34.43
PK	10.39984G	56.82	68.20	-11.38	17.05	3	Vertical	224	3.00	-	39.77	39.50	12.20	34.65
PK	15.6044G	69.35	74.00	-4.65	17.99	3	Vertical	27	1.74	-	51.36	37.81	14.62	34.44

802.11ax HEW20_Nss1,(MCS0)_4TX

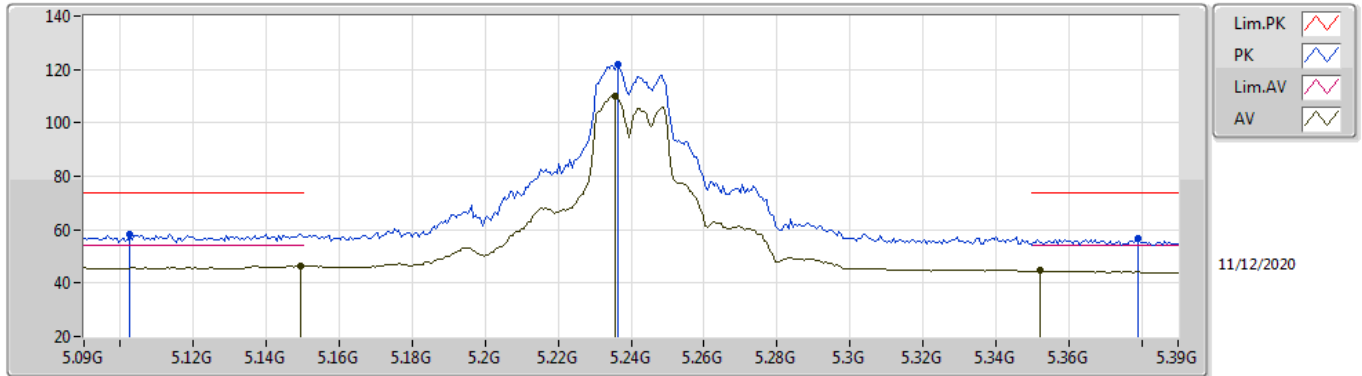
5200MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.60632G	53.29	54.00	-0.71	17.99	3	Horizontal	326	1.48	-	35.30	37.81	14.62	34.44
PK	10.40006G	61.18	68.20	-7.02	17.05	3	Horizontal	218	2.41	-	44.13	39.50	12.20	34.65
PK	15.60432G	68.47	74.00	-5.53	17.99	3	Horizontal	326	1.48	-	50.48	37.81	14.62	34.44

802.11ax HEW20_Nss1,(MCS0)_4TX

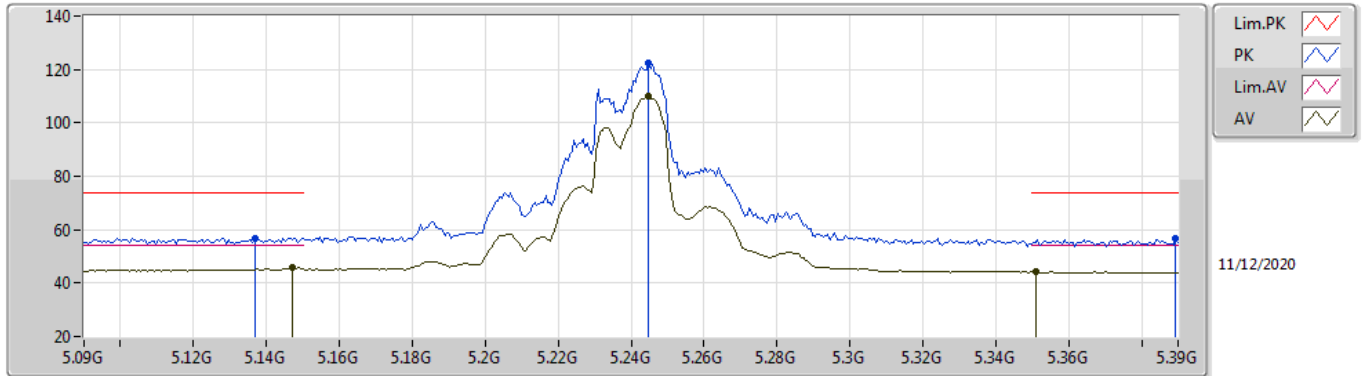
5240MHz_TX



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	5.1494G	46.43	54.00	-7.57	5.99	3	Vertical	246	1.87	-	40.44	31.70	8.52	34.23
AV	5.2358G	109.79	Inf	-Inf	5.63	3	Vertical	246	1.87	-	104.16	31.29	8.58	34.24
AV	5.3522G	44.64	54.00	-9.36	5.36	3	Vertical	246	1.87	-	39.28	31.01	8.60	34.25
PK	5.1026G	58.17	74.00	-15.83	5.95	3	Vertical	246	1.87	-	52.22	31.70	8.48	34.23
PK	5.2364G	121.81	Inf	-Inf	5.62	3	Vertical	246	1.87	-	116.19	31.28	8.58	34.24
PK	5.3792G	56.54	74.00	-17.46	5.54	3	Vertical	246	1.87	-	51.00	31.18	8.61	34.25

802.11ax HEW20_Nss1,(MCS0)_4TX

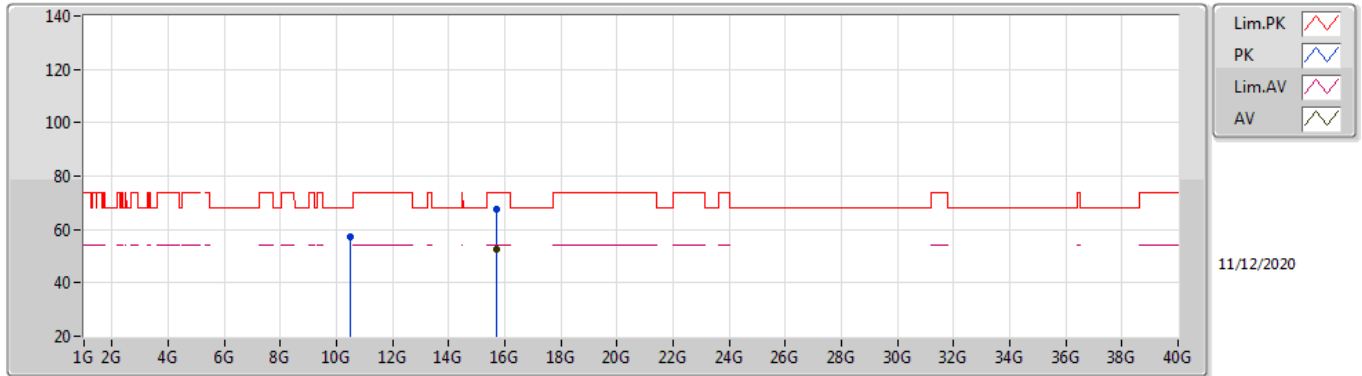
5240MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.147G	45.73	54.00	-8.27	5.99	3	Horizontal	230	1.69	-	39.74	31.70	8.52	34.23
AV	5.2448G	109.81	Inf	-Inf	5.57	3	Horizontal	230	1.69	-	104.24	31.23	8.58	34.24
AV	5.351G	44.23	54.00	-9.77	5.36	3	Horizontal	230	1.69	-	38.87	31.01	8.60	34.25
PK	5.1368G	56.94	74.00	-17.06	5.98	3	Horizontal	230	1.69	-	50.96	31.70	8.51	34.23
PK	5.2448G	122.40	Inf	-Inf	5.57	3	Horizontal	230	1.69	-	116.83	31.23	8.58	34.24
PK	5.3894G	56.84	74.00	-17.16	5.60	3	Horizontal	230	1.69	-	51.24	31.24	8.61	34.25

802.11ax HEW20_Nss1,(MCS0)_4TX

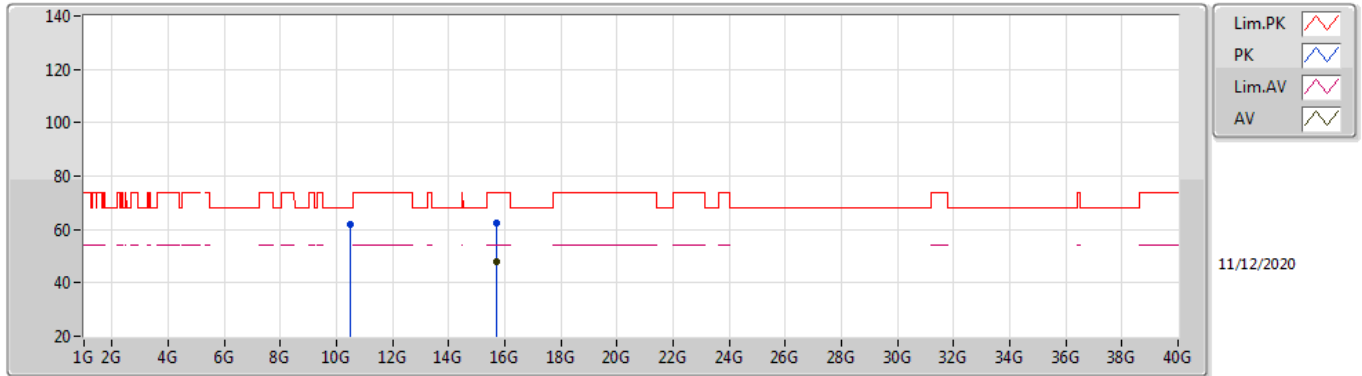
5240MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.71744G	52.75	54.00	-1.25	18.04	3	Vertical	300	2.38	-	34.71	37.93	14.65	34.54
PK	10.47968G	56.99	68.20	-11.21	17.31	3	Vertical	273	1.57	-	39.68	39.66	12.24	34.59
PK	15.72304G	67.51	74.00	-6.49	18.01	3	Vertical	300	2.38	-	49.50	37.91	14.65	34.55

802.11ax HEW20_Nss1,(MCS0)_4TX

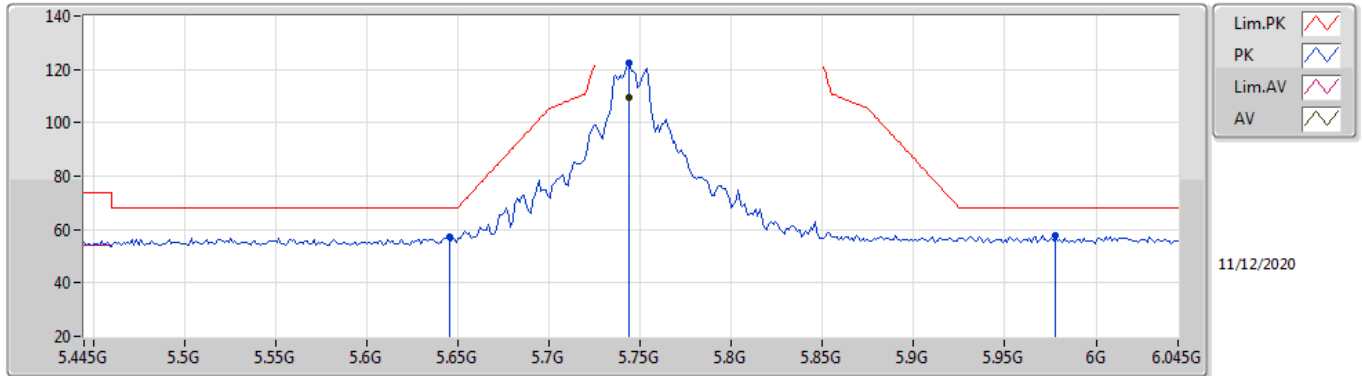
5240MHz_TX



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	15.71664G	47.85	54.00	-6.15	18.04	3	Horizontal	320	1.49	-	29.81	37.93	14.65	34.54
PK	10.47985G	61.92	68.20	-6.28	17.31	3	Horizontal	221	2.39	-	44.61	39.66	12.24	34.59
PK	15.7144G	62.50	74.00	-11.50	18.05	3	Horizontal	320	1.49	-	44.45	37.94	14.65	34.54

802.11ax HEW20_Nss1,(MCS0)_2TX

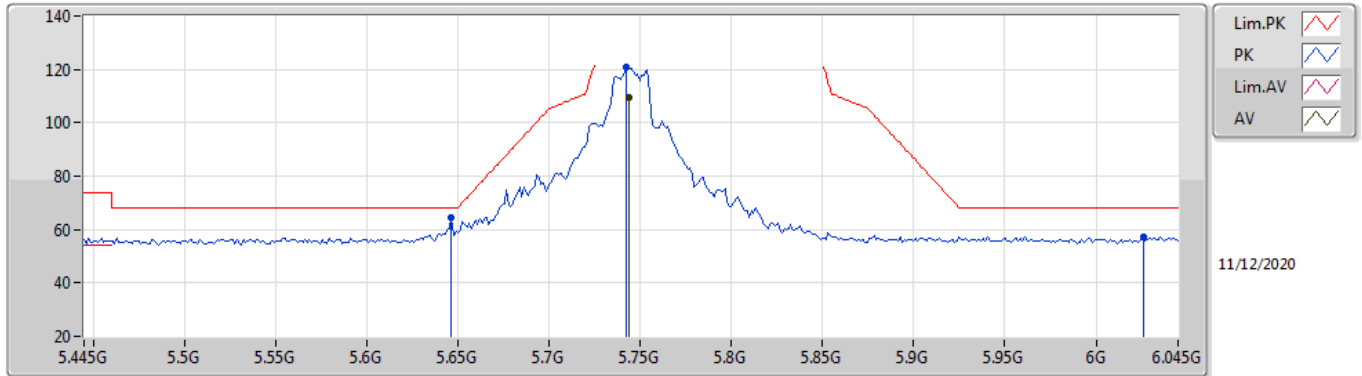
5745MHz_TX



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	5.7438G	109.28	Inf	-Inf	6.73	3	Vertical	337	1.74	-	102.55	31.98	9.03	34.28
PK	5.6454G	57.34	68.20	-10.86	6.36	3	Vertical	337	1.74	-	50.98	31.69	8.94	34.27
PK	5.7438G	122.18	Inf	-Inf	6.73	3	Vertical	337	1.74	-	115.45	31.98	9.03	34.28
PK	5.9778G	57.94	68.20	-10.26	7.21	3	Vertical	337	1.74	-	50.73	32.36	9.16	34.31

802.11ax HEW20_Nss1,(MCS0)_2TX

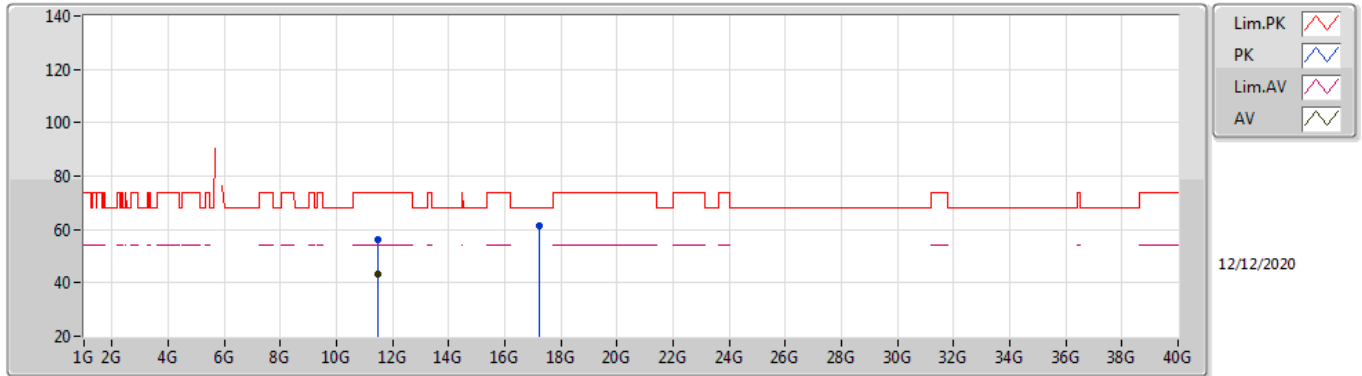
5745MHz_TX



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	5.7438G	109.43	Inf	-Inf	6.73	3	Horizontal	62	1.64	-	102.70	31.98	9.03	34.28
PK	5.6466G	64.34	68.20	-3.86	6.36	3	Horizontal	62	1.64	-	57.98	31.69	8.94	34.27
PK	5.7426G	121.04	Inf	-Inf	6.72	3	Horizontal	62	1.64	-	114.32	31.97	9.03	34.28
PK	6.0258G	57.43	68.20	-10.77	7.23	3	Horizontal	62	1.64	-	50.20	32.35	9.19	34.31

802.11ax HEW20_Nss1,(MCS0)_2TX

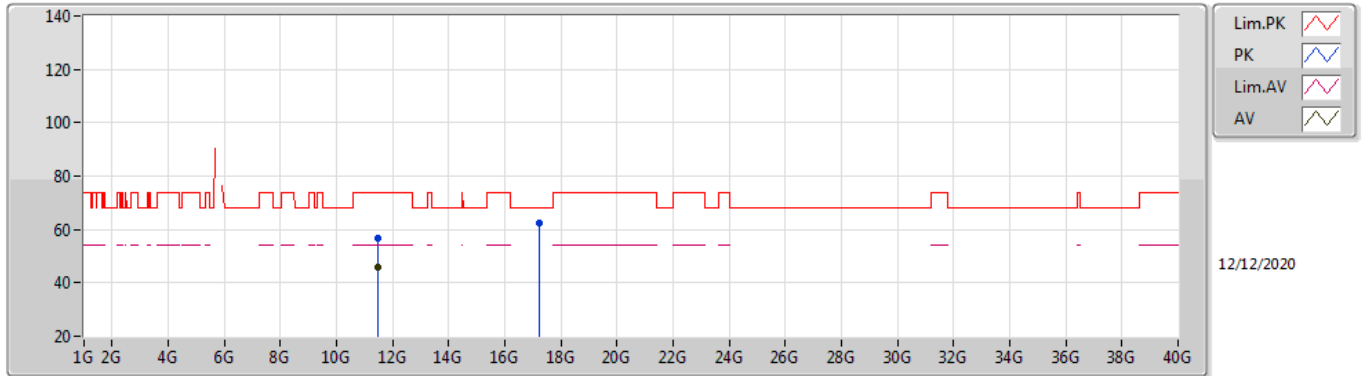
5745MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.48976G	43.16	54.00	-10.84	18.57	3	Vertical	76	1.57	-	24.59	39.98	12.75	34.16
PK	11.48496G	56.22	74.00	-17.78	18.56	3	Vertical	76	1.57	-	37.66	39.97	12.75	34.16
PK	17.22108G	61.34	68.20	-6.86	21.31	3	Vertical	189	2.03	-	40.03	39.56	15.03	33.28

802.11ax HEW20_Nss1,(MCS0)_2TX

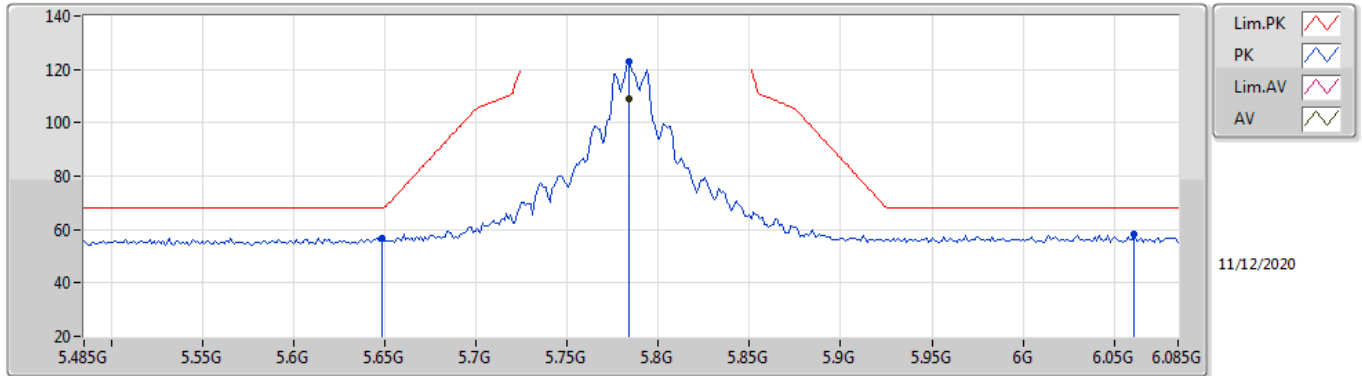
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.48988G	45.74	54.00	-8.26	18.57	3	Horizontal	127	2.05	-	27.17	39.98	12.75	34.16
PK	11.49306G	56.51	74.00	-17.49	18.58	3	Horizontal	127	2.05	-	37.93	39.99	12.75	34.16
PK	17.23344G	62.47	68.20	-5.73	21.35	3	Horizontal	114	2.04	-	41.12	39.60	15.03	33.28

802.11ax HEW20_Nss1,(MCS0)_2TX

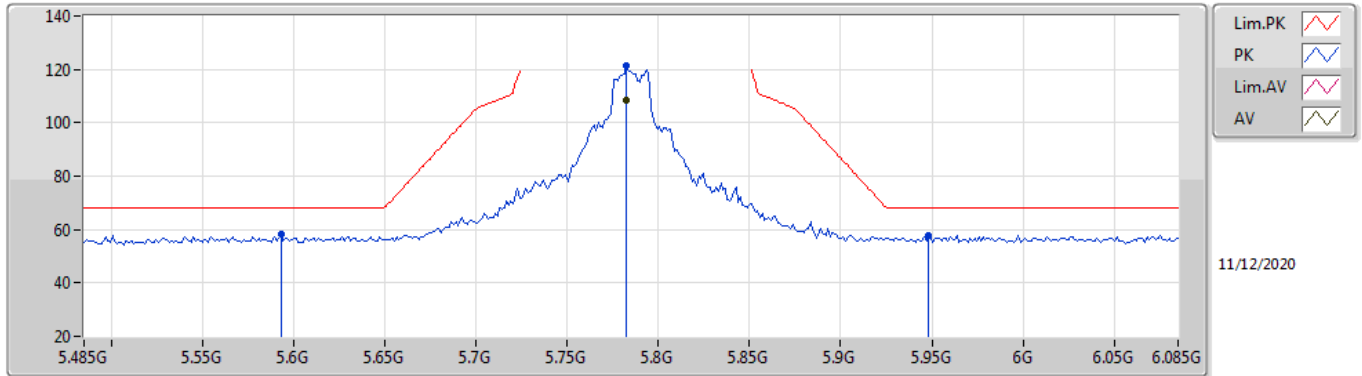
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7838G	109.08	Inf	-Inf	6.78	3	Vertical	333	1.87	-	102.30	32.00	9.07	34.29
PK	5.6482G	56.81	68.20	-11.39	6.37	3	Vertical	333	1.87	-	50.44	31.70	8.94	34.27
PK	5.7838G	122.78	Inf	-Inf	6.78	3	Vertical	333	1.87	-	116.00	32.00	9.07	34.29
PK	6.061G	58.17	68.20	-10.03	7.23	3	Vertical	333	1.87	-	50.94	32.32	9.22	34.31

802.11ax HEW20_Nss1,(MCS0)_2TX

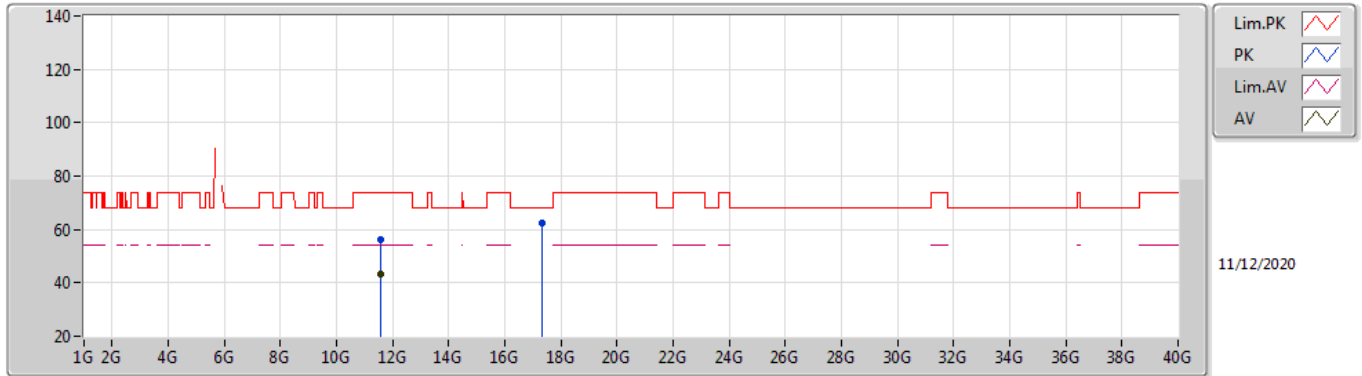
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7826G	108.61	Inf	-Inf	6.77	3	Horizontal	66	1.72	-	101.84	32.00	9.06	34.29
PK	5.593G	58.04	68.20	-10.16	6.22	3	Horizontal	66	1.72	-	51.82	31.60	8.89	34.27
PK	5.7826G	121.36	Inf	-Inf	6.77	3	Horizontal	66	1.72	-	114.59	32.00	9.06	34.29
PK	5.9482G	57.74	68.20	-10.46	7.15	3	Horizontal	66	1.72	-	50.59	32.30	9.15	34.30

802.11ax HEW20_Nss1,(MCS0)_2TX

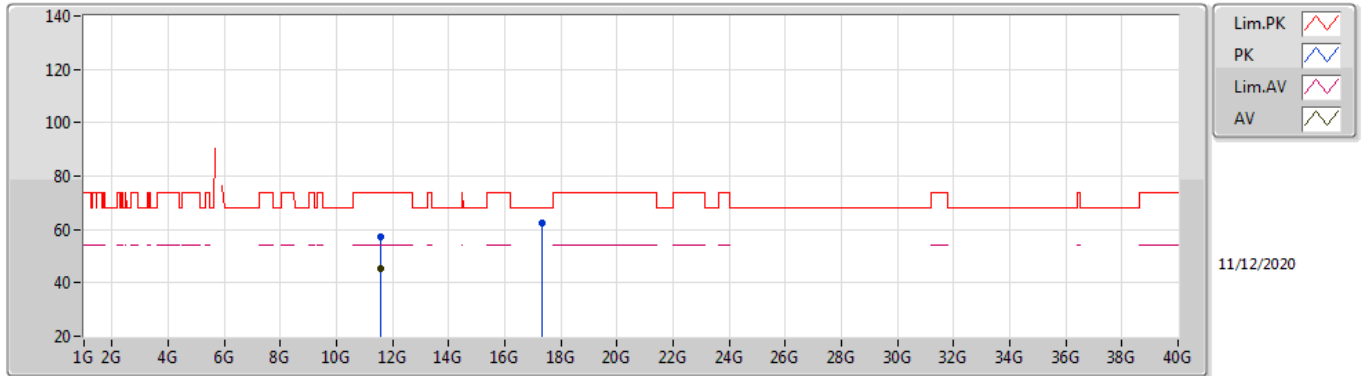
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.56982G	43.35	54.00	-10.65	18.53	3	Vertical	157	1.40	-	24.82	39.93	12.79	34.19
PK	11.56694G	56.06	74.00	-17.94	18.53	3	Vertical	157	1.40	-	37.53	39.93	12.79	34.19
PK	17.34144G	62.33	68.20	-5.87	21.95	3	Vertical	310	1.49	-	40.38	40.13	15.06	33.24

802.11ax HEW20_Nss1,(MCS0)_2TX

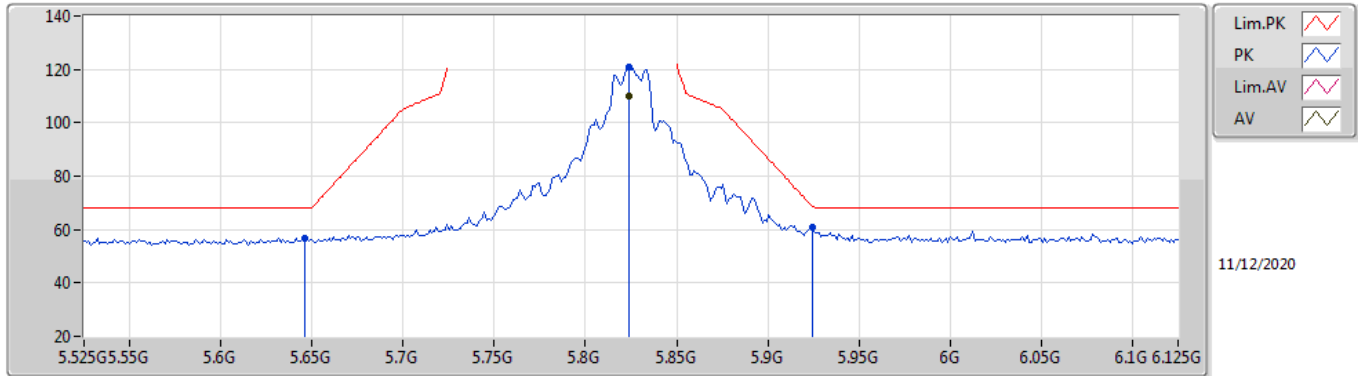
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.57006G	45.36	54.00	-8.64	18.53	3	Horizontal	114	1.98	-	26.83	39.93	12.79	34.19
PK	11.57G	57.00	74.00	-17.00	18.53	3	Horizontal	114	1.98	-	38.47	39.93	12.79	34.19
PK	17.34978G	62.47	68.20	-5.73	22.02	3	Horizontal	0	1.80	-	40.45	40.20	15.06	33.24

802.11ax HEW20_Nss1,(MCS0)_2TX

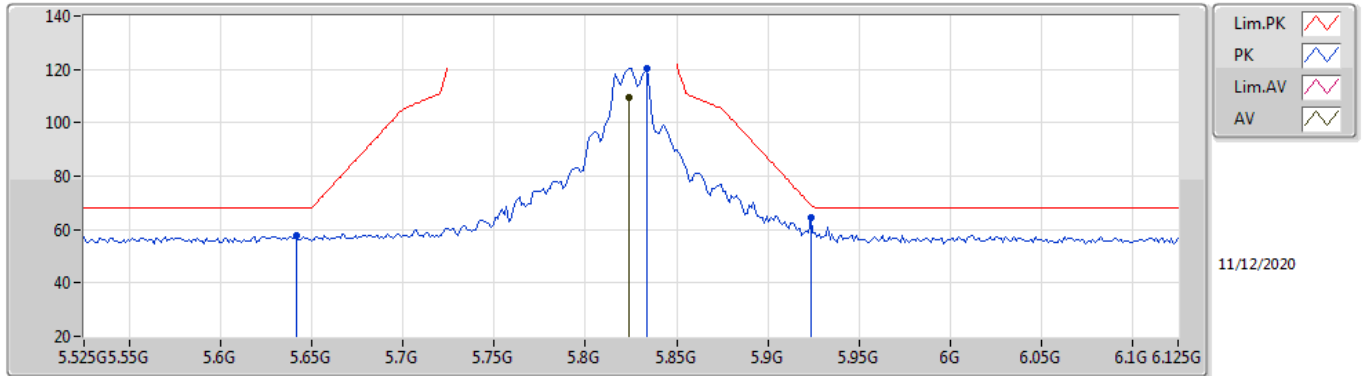
5825MHz_TX



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	5.8238G	109.89	Inf	-Inf	6.90	3	Vertical	333	1.87	-	102.99	32.10	9.09	34.29
PK	5.6462G	56.73	68.20	-11.47	6.36	3	Vertical	333	1.87	-	50.37	31.69	8.94	34.27
PK	5.8238G	120.74	Inf	-Inf	6.90	3	Vertical	333	1.87	-	113.84	32.10	9.09	34.29
PK	5.9246G	60.97	68.50	-7.53	7.14	3	Vertical	333	1.87	-	53.83	32.30	9.14	34.30

802.11ax HEW20_Nss1,(MCS0)_2TX

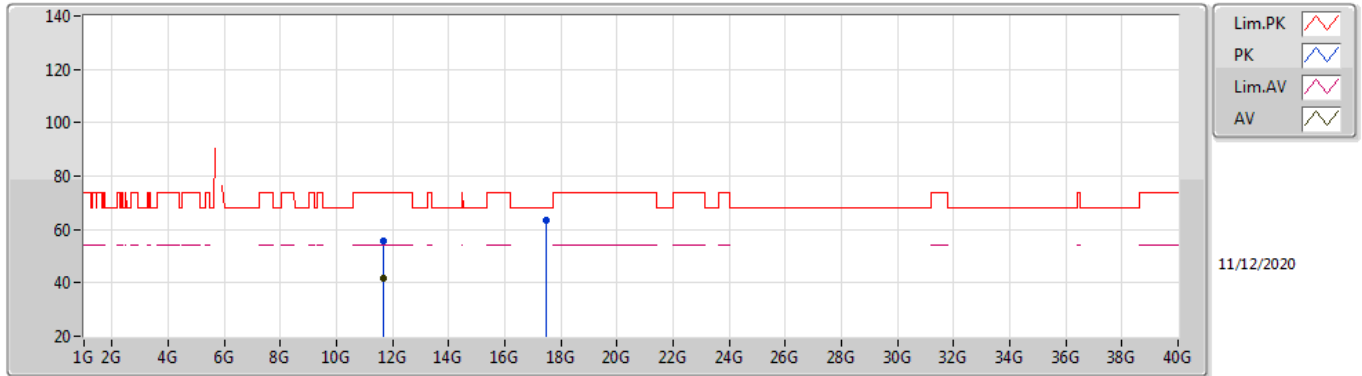
5825MHz_TX



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	5.8238G	109.46	Inf	-Inf	6.90	3	Horizontal	61	1.68	-	102.56	32.10	9.09	34.29
PK	5.6414G	58.00	68.20	-10.20	6.35	3	Horizontal	61	1.68	-	51.65	31.68	8.94	34.27
PK	5.8334G	120.51	Inf	-Inf	6.94	3	Horizontal	61	1.68	-	113.57	32.13	9.10	34.29
PK	5.9234G	64.31	69.38	-5.07	7.14	3	Horizontal	61	1.68	-	57.17	32.30	9.14	34.30

802.11ax HEW20_Nss1,(MCS0)_2TX

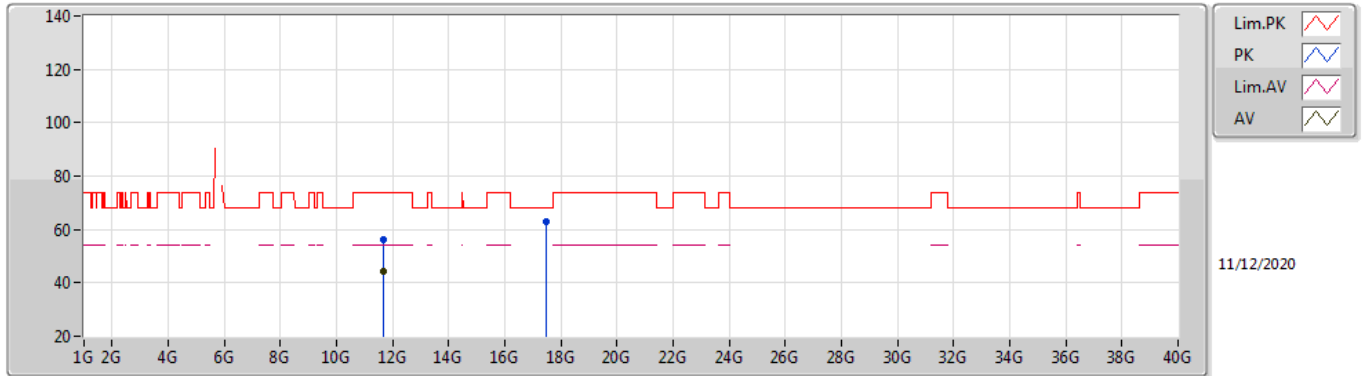
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.64994G	41.97	54.00	-12.03	18.15	3	Vertical	76	2.49	-	23.82	39.55	12.83	34.23
PK	11.66458G	55.56	74.00	-18.44	18.05	3	Vertical	76	2.49	-	37.51	39.45	12.84	34.24
PK	17.47776G	63.46	68.20	-4.74	22.97	3	Vertical	0	1.00	-	40.49	41.07	15.10	33.20

802.11ax HEW20_Nss1,(MCS0)_2TX

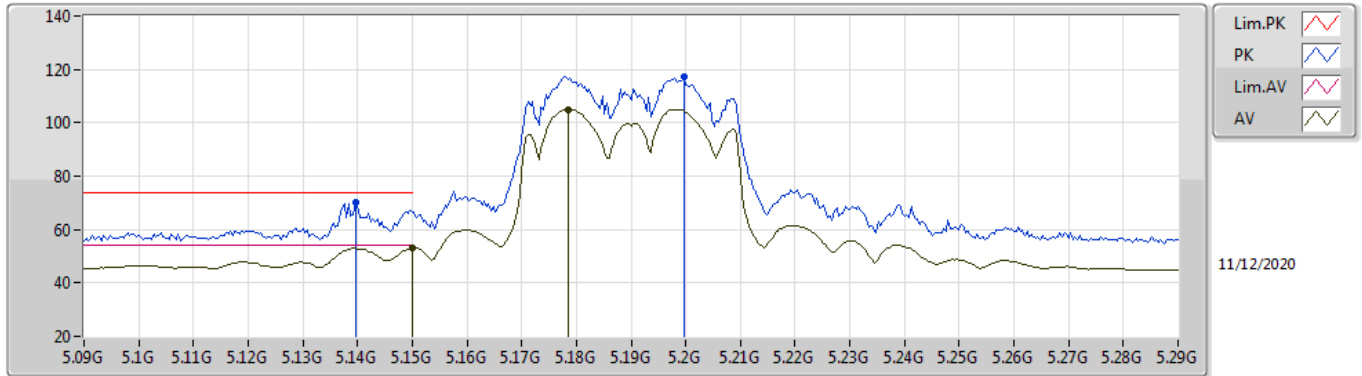
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.64988G	44.24	54.00	-9.76	18.15	3	Horizontal	113	2.03	-	26.09	39.55	12.83	34.23
PK	11.65132G	56.23	74.00	-17.77	18.14	3	Horizontal	113	2.03	-	38.09	39.54	12.83	34.23
PK	17.47224G	63.08	68.20	-5.12	22.93	3	Horizontal	0	1.19	-	40.15	41.03	15.10	33.20

802.11ax HEW40_Nss1,(MCS0)_4TX

5190MHz_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	53.15	54.00	-0.85	5.99	3	Vertical	358	1.98	-	47.16	31.70	8.52	34.23
AV	5.1784G	104.98	Inf	-Inf	5.91	3	Vertical	358	1.98	-	99.07	31.59	8.55	34.23
PK	5.1396G	70.10	74.00	-3.90	5.98	3	Vertical	358	1.98	-	64.12	31.70	8.51	34.23
PK	5.1996G	117.46	Inf	-Inf	5.83	3	Vertical	358	1.98	-	111.63	31.50	8.57	34.24