

FCC Radio Test Report

FCC ID : NDD9574892206
Equipment : Access Point
Brand Name : EDIMAX
Model Name : EW-7489OAX
Applicant : Edimax Technology Co., Ltd.
No.278, Xinhua 1st Rd., Neihu Dist, Taipei City, Taiwan
Manufacturer : Edimax Technology Co., Ltd.
No.278, Xinhua 1st Rd., Neihu Dist, Taipei City, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Jun. 10, 2022, and testing was started from Jul. 19, 2022 and completed on Dec. 20, 2022. We, SPORTON INTERNATIONAL INC. Hsinhua 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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APPENDIX G. TEST PHOTOS

PHOTOGRAPHS OF EUT V02



History of this test report

Report No.	Version	Description	Issued Date
FR260639AN	01	Initial issue of report	Feb. 16, 2023
FR260639AN	02	Photographs of EUT was updated (This report is the latest version replacing for the report issued on Feb. 16, 2023)	Mar. 08, 2023
FR260639AN	03	Revised typo (This report is the latest version replacing for the report issued on Mar. 08, 2023)	Mar. 17, 2023



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:
The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

Reviewed by: Ryan Hsiao

Report Producer: Jenny Yang



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]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax(HEW40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax(HEW80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]
5725-5850		5775	155 [1]
5150-5350	ax(HEW160)	5250	50 [1]
5470-5725		5570	114 [1]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11ax HEW20	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	2TX



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX
5.15-5.25GHz	802.11ax HEW160	160	2TX
5.25-5.35GHz	802.11ax HEW160	160	2TX
5.47-5.725GHz	802.11ax HEW160	160	2TX

Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ax HEW20-BF	20	2TX
5.25-5.35GHz	802.11ax HEW20-BF	20	2TX
5.47-5.725GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.15-5.25GHz	802.11ax HEW40-BF	40	2TX
5.25-5.35GHz	802.11ax HEW40-BF	40	2TX
5.47-5.725GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	802.11ax HEW80-BF	80	2TX
5.25-5.35GHz	802.11ax HEW80-BF	80	2TX
5.47-5.725GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX
5.15-5.25GHz	802.11ax HEW160-BF	160	2TX
5.25-5.35GHz	802.11ax HEW160-BF	160	2TX
5.47-5.725GHz	802.11ax HEW160-BF	160	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, HEW160 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	Grand-Tek	3009-00000231-50Z	Omni Antenna	N-type
2	Grand-Tek	3009-00000231-50Z	Omni Antenna	N-type
3	Grand-Tek	3009-00000231-50Z	Omni Antenna	N-type
4	Grand-Tek	3009-00000231-50Z	Omni Antenna	N-type

Ant.	Port	Gain (dBi)		Cable Loss (dB)	
		2.4G	5G	2.4G	5G
1	1	3.2	6	-	1.2
2	2	3.2	6	-	1.55
3	1	3.2	6	0.5	-
4	2	3.2	6	0.5	-

Note 1: The EUT has four antennas.

For 2.4GHz function:

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

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

For 5GHz function:

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

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

Note 2: Directional gain information

	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$



1.1.3 EUT Information

Operational Condition				
EUT Power Type	From PoE			
EUT Function	<input checked="" type="checkbox"/>	Outdoor AP	<input type="checkbox"/>	Indoor AP
	<input type="checkbox"/>	Fixed P2P AP	<input type="checkbox"/>	Client
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
TPC Function	<input checked="" type="checkbox"/>	With TPC Function	<input type="checkbox"/>	Without TPC Function
Weather Band	<input checked="" type="checkbox"/>	With 5600~5650MHz	<input type="checkbox"/>	Without 5600~5650MHz
Resource Unit(802.11ax)	<input checked="" type="checkbox"/>	Full RU	<input type="checkbox"/>	Partial RU
Type of EUT				
<input checked="" type="checkbox"/>	Stand-alone			
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.: ...			
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:			
<input type="checkbox"/>	Other:			

1.1.4 Mode Test Duty Cycle

Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.992	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_2TX	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40_Nss1,(MCS0)_2TX	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80_Nss1,(MCS0)_2TX	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160_Nss1,(MCS0)_2TX	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)

Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)

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



1.1.5 Table for Multiple Listing

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

SKU	DDR	Description
1	Brand: SYNIX Model: H5TC4G83EFR	All the SKU are identical, only the DDR is different.
2	Brand: WINBOND Model: W63GU8QB	

From the above SKU, The worst case of EMI was evaluated, SKU 1 was selected as representative SKU for the test and its data was recorded in this report.

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

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)		
		TEL: 886-3-327-3456	FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Wayne Chiu	21.4~21.8°C / 54~57%	10/Aug/2022
RF Conducted	TH06-HY	Jin Jhou	22.3~24.5°C / 53~55%	19/Jul/2022~20/Dec/2022
<input checked="" type="checkbox"/>	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)		
		TEL: 886-3-318-0787	FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Daniel Hsu	24.5~25.3°C / 49~56%	29/Jul/2022~02/Aug/2022
Radiated (Co-location)	03CH09-HY	Daniel Hsu	24.2~25.1°C / 45~57%	18/Aug/2022

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
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Emission Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Unwanted Emissions	4.8 dB	Confidence levels of 95%
Receiver Radiated Unwanted Emissions	4.8 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 Channel Mode

Test Software Version	QDART-Connectivity1.0-00089
-----------------------	-----------------------------

Non-Beamforming

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	19.5
5200MHz	23.5
5240MHz	23
5260MHz	17
5300MHz	18
5320MHz	18
5500MHz	17.5
5580MHz	18
5700MHz	18
5720MHz Straddle 5.47-5.725GHz	18
5720MHz Straddle 5.725-5.85GHz	18
5745MHz	26.5
5785MHz	26.5
5825MHz	26.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	20.5
5200MHz	23.5
5240MHz	24
5260MHz	18
5300MHz	18
5320MHz	18.5
5500MHz	18.5
5580MHz	18.5
5700MHz	19
5720MHz Straddle 5.47-5.725GHz	19
5720MHz Straddle 5.725-5.85GHz	19
5745MHz	26.5
5785MHz	26.5



Mode	Power Setting
5825MHz	26.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	19
5230MHz	22.5
5270MHz	20.5
5310MHz	20.5
5510MHz	19
5550MHz	21
5670MHz	21.5
5710MHz Straddle 5.47-5.725GHz	21.5
5710MHz Straddle 5.725-5.85GHz	21.5
5755MHz	25
5795MHz	26.5
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	18.5
5290MHz	20.5
5530MHz	21
5610MHz	22
5690MHz Straddle 5.47-5.725GHz	21.5
5690MHz Straddle 5.725-5.85GHz	21.5
5775MHz	23
802.11ax HEW160_Nss1,(MCS0)_2TX	-
5250MHz Straddle 5.15-5.25GHz	19
5250MHz Straddle 5.25-5.35GHz	19
5570MHz	20.5



Beamforming

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	20.5
5200MHz	23.5
5240MHz	24
5260MHz	18
5300MHz	18
5320MHz	18.5
5500MHz	18.5
5580MHz	18.5
5700MHz	18
5720MHz Straddle 5.47-5.725GHz	18
5720MHz Straddle 5.725-5.85GHz	18
5745MHz	25
5785MHz	25
5825MHz	25
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	19
5230MHz	22.5
5270MHz	18
5310MHz	18
5510MHz	18
5550MHz	18
5670MHz	18
5710MHz Straddle 5.47-5.725GHz	19
5710MHz Straddle 5.725-5.85GHz	19
5755MHz	24.5
5795MHz	24.5
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	18.5
5290MHz	18
5530MHz	18
5610MHz	18
5690MHz Straddle 5.47-5.725GHz	19
5690MHz Straddle 5.725-5.85GHz	19
5775MHz	23






Mode	Power Setting
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-
5250MHz Straddle 5.15-5.25GHz	19
5250MHz Straddle 5.25-5.35GHz	19
5570MHz	18

2.2 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 Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	PoE 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	PoE mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA260639 for Co-location RF Exposure Evaluation.	

2.3 Accessories

Accessories				
Wall Mount*2	Brand Name	-	Model Name	-

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

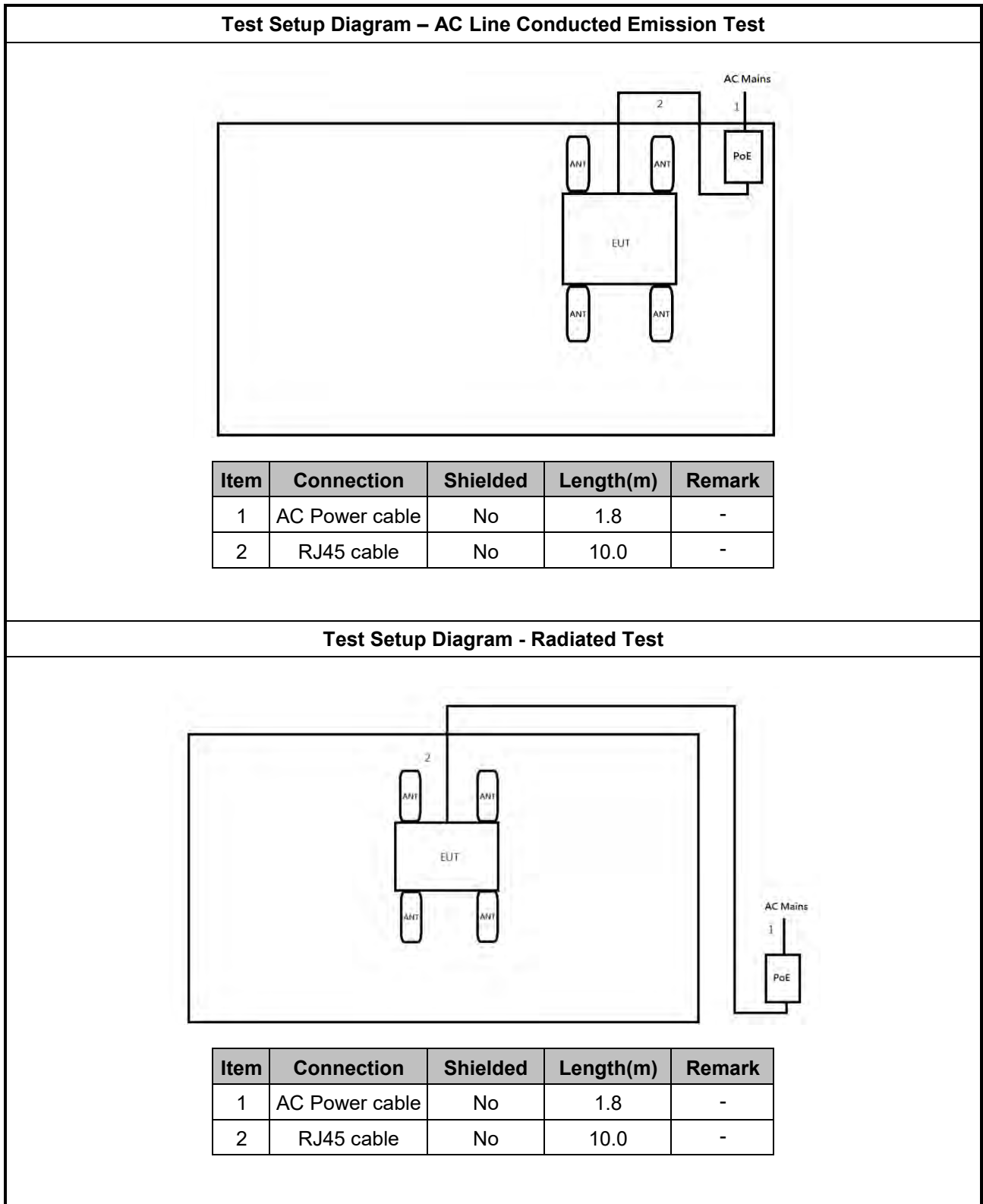
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power Sync	CAT-6E-10	-	-
2	PoE Adapter	LINKSYS	PI021A	-	Provided by Customer
3	AC Power Cable	Power Sync	TPCMRN0018	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	PoE Adapter	LINKSYS	PI021A	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 cable	Power Sync	CAT-6E-10	-	-
2	PoE Adapter (Remote)	LINKSYS	PI021A	-	Provided by Customer
3	AC Power Cable (Remote)	Power sync	TPCMRN0018	-	-

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

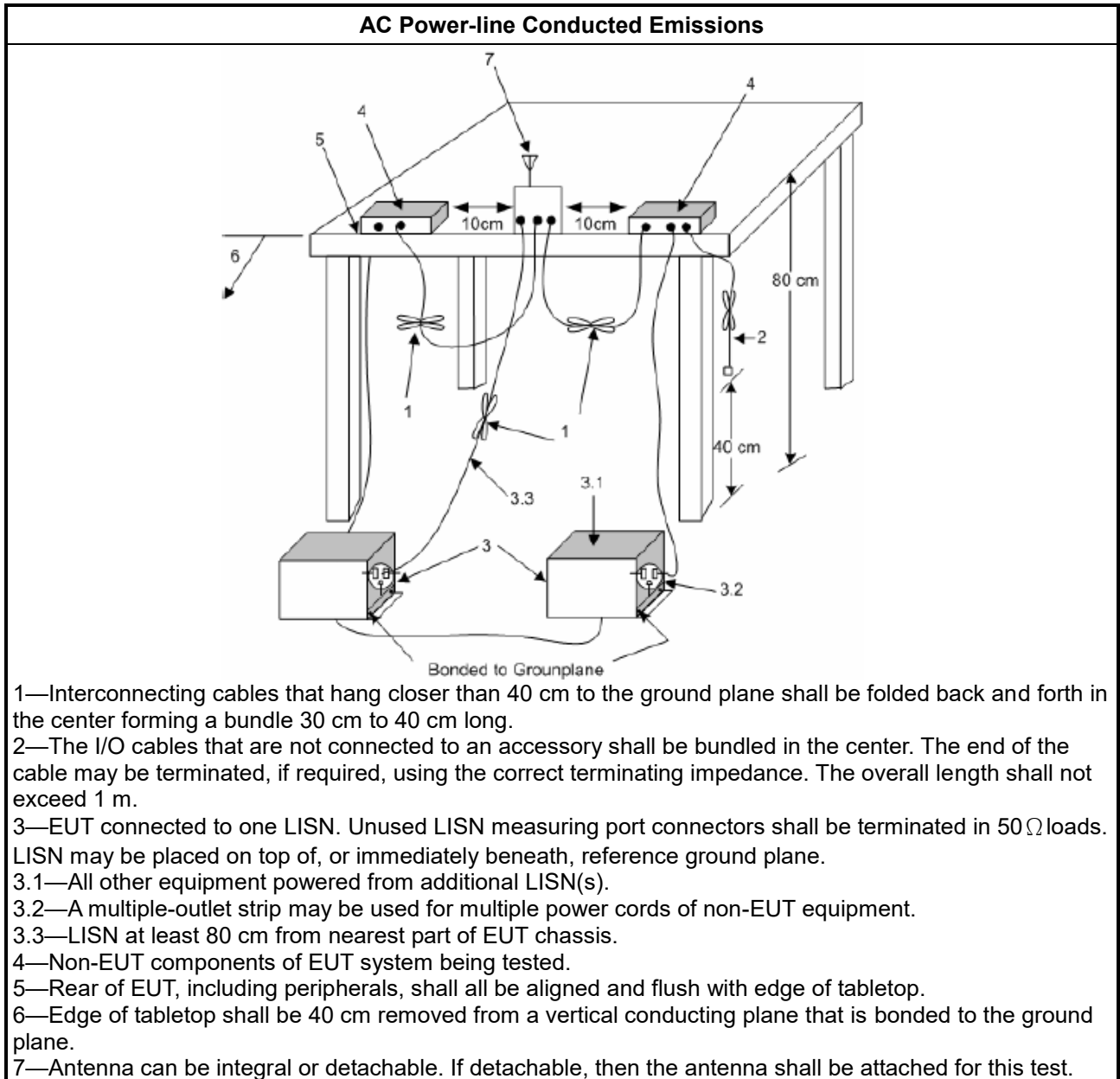
Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 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	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.

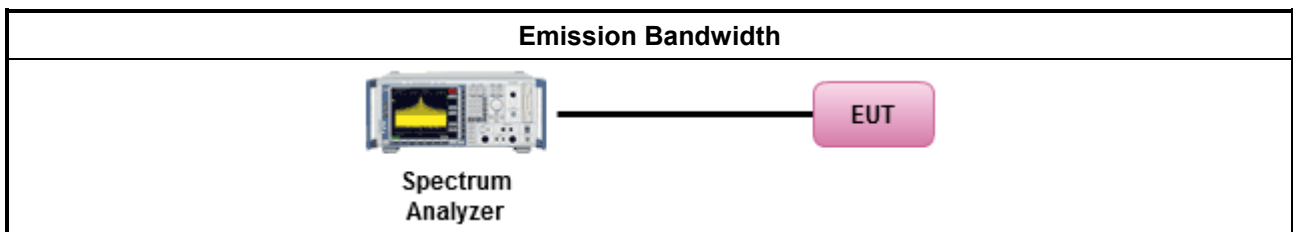
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> ▪ Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125mW$ [21dBm]
	<ul style="list-style-type: none"> ▪ Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$
	<ul style="list-style-type: none"> ▪ Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$.
	<ul style="list-style-type: none"> ▪ Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$.
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

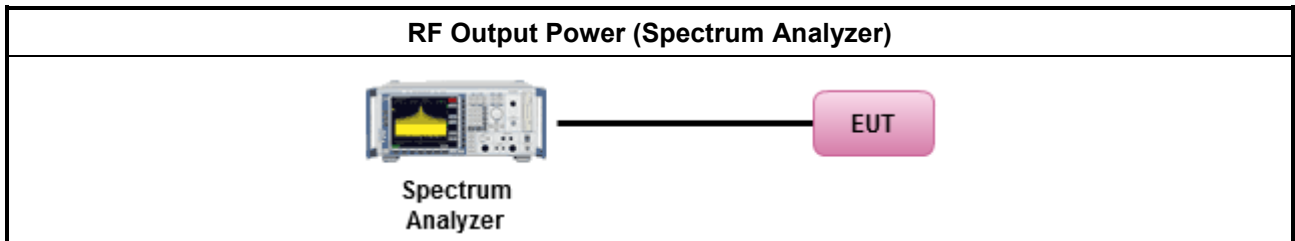
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

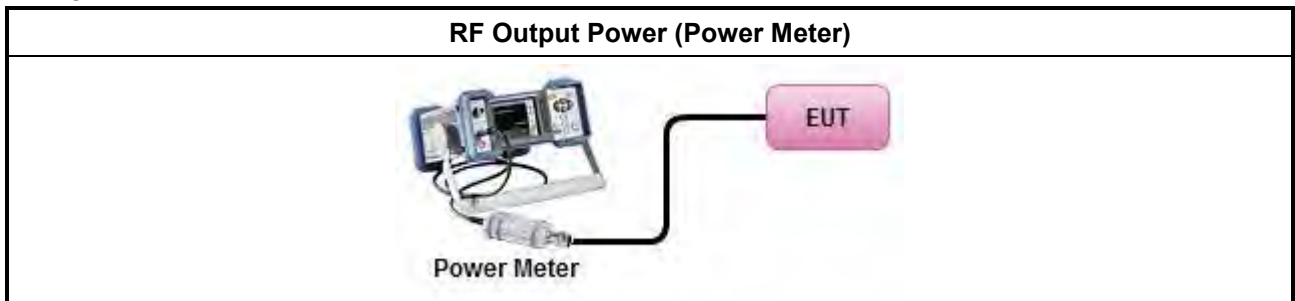
Test Method	
<ul style="list-style-type: none"> Maximum Conducted Output Power 	
	Duty cycle $\geq 98\%$
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
<input type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 Alt.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

3.3.4 Test Setup

For Straddle channel



For Other channel



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

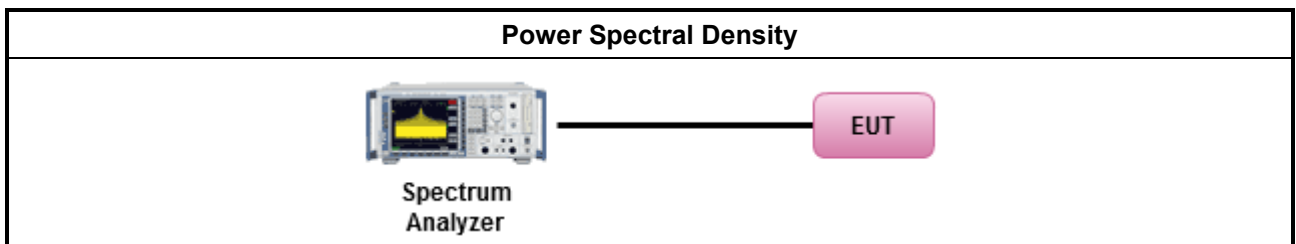
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

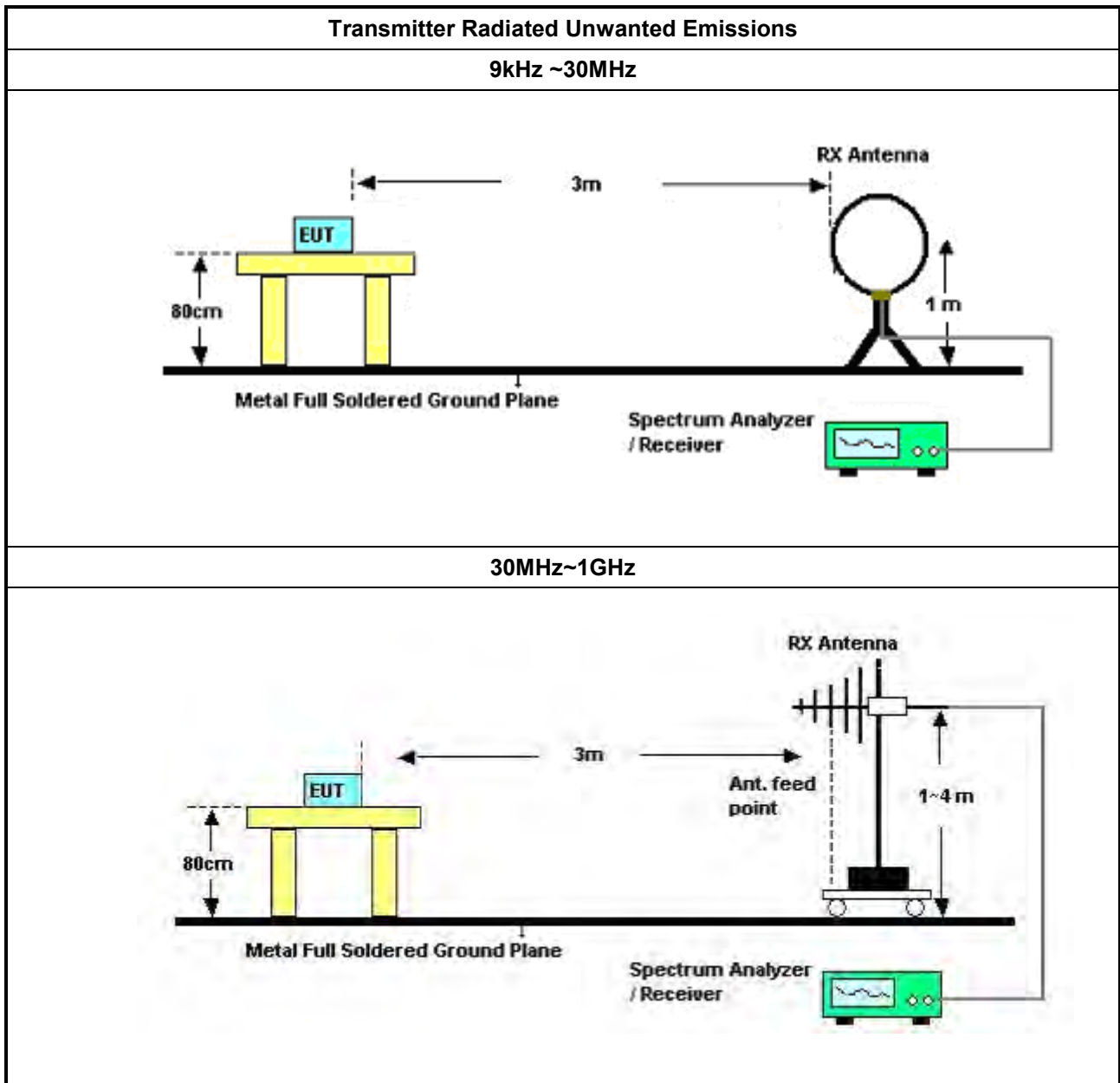
Test Method	
<ul style="list-style-type: none"> Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). 	
<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below: <ul style="list-style-type: none"> Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands. Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands. <input checked="" type="checkbox"/> Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW. <input checked="" type="checkbox"/> Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit. 	
<ul style="list-style-type: none"> For radiated measurement. <ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m. Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. 	
<ul style="list-style-type: none"> The any unwanted emissions level shall not exceed the fundamental emission level. All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. 	
<ul style="list-style-type: none"> Use the following spectrum analyzer settings: <ul style="list-style-type: none"> 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. 	
<ul style="list-style-type: none"> KDB 414788 Open-Field Test Sites and Chamber Correlation Justification. <ul style="list-style-type: none"> 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. 	

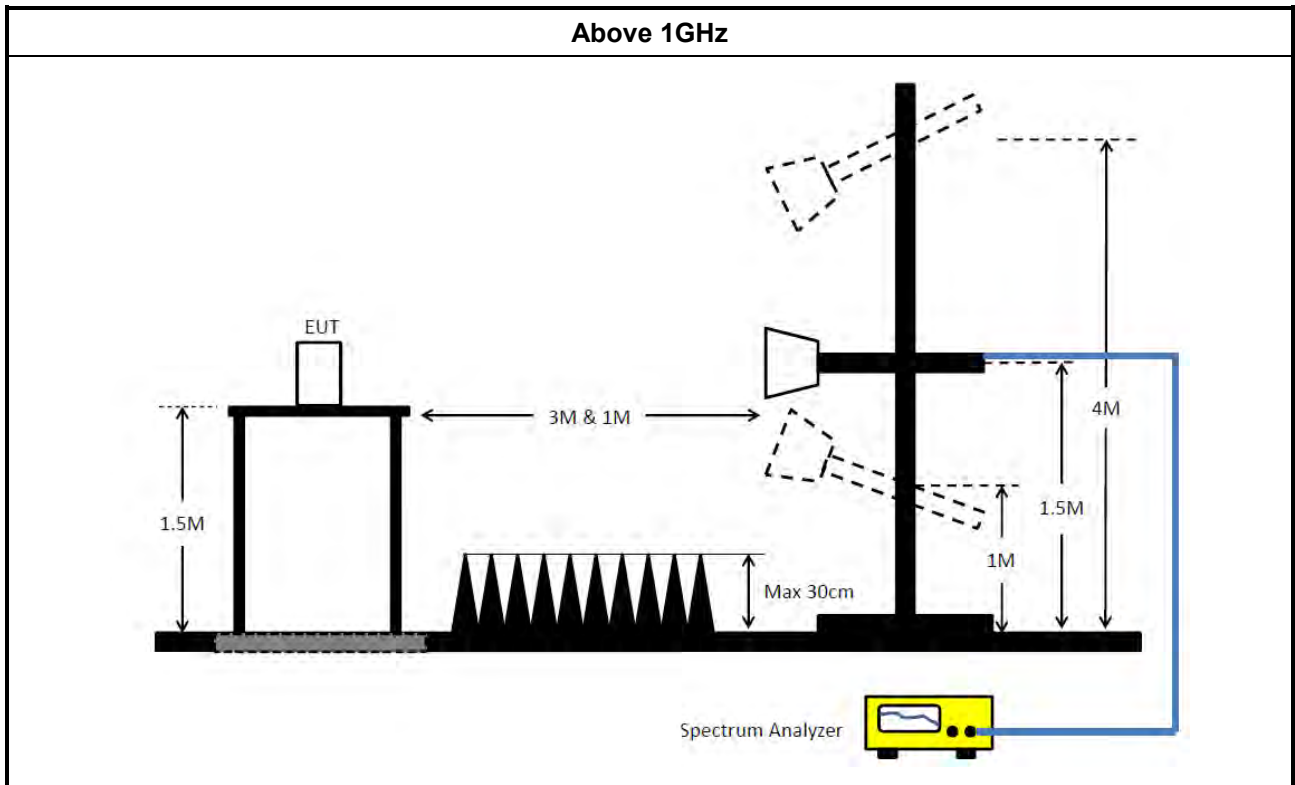
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp 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 /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.8.2	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	01/Apr/2022	31/Mar/2023
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	10/Nov/2022	09/Nov/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2021	20/Oct/2022
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	25/Mar/2022	24/Mar/2023
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	25/Mar/2022	24/Mar/2023
SENSE-15407_NII	Sporton	V5.10.8.3	N/A	N/A	N/A	N/A



Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	25/Mar/2022	24/Mar/2023
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	17/Mar/2022	16/Mar/2023
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	13/Aug/2021	12/Aug/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	27/Dec/2021	26/Dec/2022
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	08/Apr/2022	07/Apr/2023
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	04/Sep/2021	03/Sep/2022
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	30/Aug/2021	29/Aug/2022
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	07/Feb/2022	06/Feb/2023
RF CABLE 5m+3m+1m	HUBER+ SUHNER	SUCOFLEX104	CB009	1GHz~40GHz	13/Aug/2021	12/Aug/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	30/May/2022	29/May/2023
SENSE-15407	Sporton	NA	5.10.7.20	NA	NA	NA

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	17/Mar/2022	16/Mar/2023
EXA Signal Analyzer	KEYSIGHT	N9010A	SG56070103	10Hz~44GHz	05/Nov/2021	04/Nov/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	27/Dec/2021	26/Dec/2022
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
RF CABLE 5m+3m+1m	HUBER+ SUHNER	SUCOFLEX104	CB009	1GHz~40GHz	17/Aug/2022	16/Aug/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
SENSE-15407	Sporton	NA	5.10.7.20	NA	NA	NA



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	444.284k	37.96	46.98	-9.02	Line



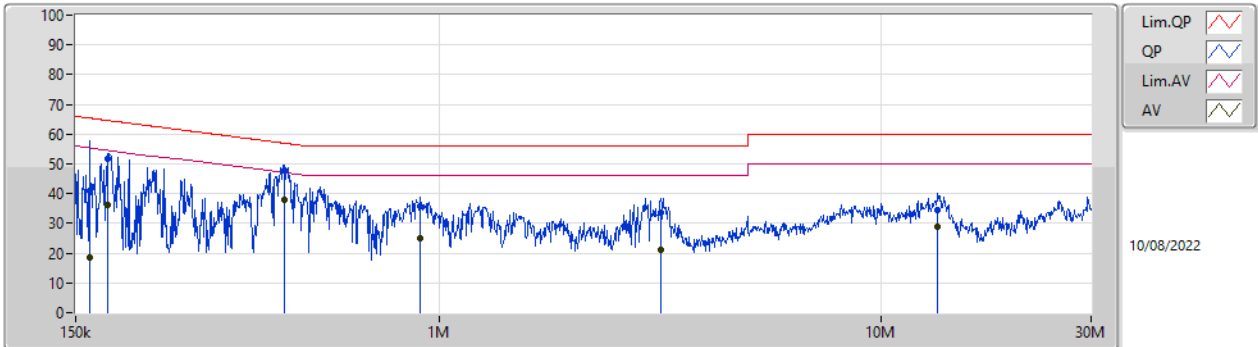
Conducted Emissions at Powerline_Non-Beamforming

Appendix A

Result

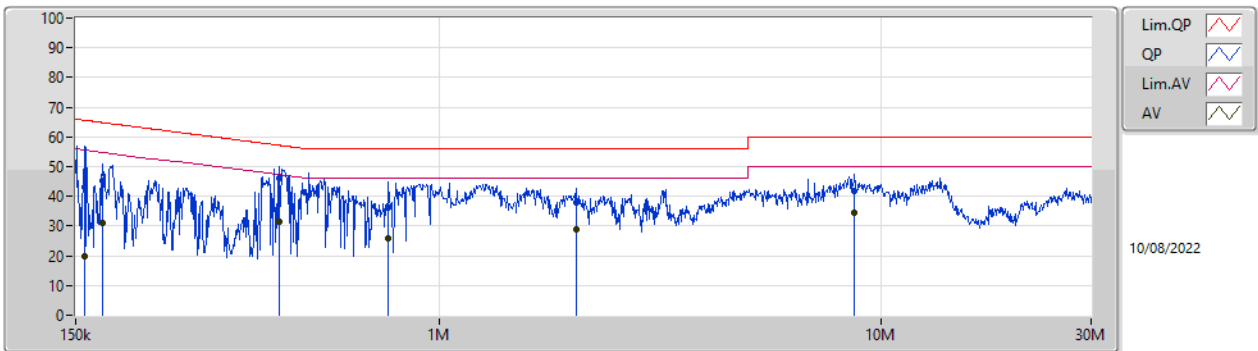
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	161.175k	40.78	65.41	-24.63	Line	-
Mode 1	Pass	AV	161.175k	18.64	55.41	-36.77	Line	-
Mode 1	Pass	QP	177.381k	51.63	64.60	-12.97	Line	-
Mode 1	Pass	AV	177.381k	36.00	54.60	-18.60	Line	-
Mode 1	Pass	QP	444.284k	47.66	56.98	-9.32	Line	-
Mode 1	Pass	AV	444.284k	37.96	46.98	-9.02	Line	-
Mode 1	Pass	QP	904.195k	35.95	56.00	-20.05	Line	-
Mode 1	Pass	AV	904.195k	25.19	46.00	-20.81	Line	-
Mode 1	Pass	QP	3.18M	33.58	56.00	-22.42	Line	-
Mode 1	Pass	AV	3.18M	21.01	46.00	-24.99	Line	-
Mode 1	Pass	QP	13.489M	34.67	60.00	-25.33	Line	-
Mode 1	Pass	AV	13.489M	28.96	50.00	-21.04	Line	-
Mode 1	Pass	QP	156.734k	42.95	65.64	-22.69	Neutral	-
Mode 1	Pass	AV	156.734k	20.01	55.64	-35.63	Neutral	-
Mode 1	Pass	QP	172.493k	45.08	64.83	-19.75	Neutral	-
Mode 1	Pass	AV	172.493k	30.85	54.83	-23.98	Neutral	-
Mode 1	Pass	QP	433.769k	46.29	57.19	-10.90	Neutral	-
Mode 1	Pass	AV	433.769k	31.44	47.19	-15.75	Neutral	-
Mode 1	Pass	QP	767.679k	36.23	56.00	-19.77	Neutral	-
Mode 1	Pass	AV	767.679k	25.67	46.00	-20.33	Neutral	-
Mode 1	Pass	QP	2.041M	37.91	56.00	-18.09	Neutral	-
Mode 1	Pass	AV	2.041M	28.86	46.00	-17.14	Neutral	-
Mode 1	Pass	QP	8.73M	41.82	60.00	-18.18	Neutral	-
Mode 1	Pass	AV	8.73M	34.49	50.00	-15.51	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	161.175k	40.78	65.41	-24.63	19.63	Line	-	21.15	9.69	0.03	9.91
AV	161.175k	18.64	55.41	-36.77	19.63	Line	-	-0.99	9.69	0.03	9.91
QP	177.381k	51.63	64.60	-12.97	19.63	Line	-	32.00	9.69	0.03	9.91
AV	177.381k	36.00	54.60	-18.60	19.63	Line	-	16.37	9.69	0.03	9.91
QP	444.284k	47.66	56.98	-9.32	19.63	Line	-	28.03	9.68	0.04	9.91
AV	444.284k	37.96	46.98	-9.02	19.63	Line	-	18.33	9.68	0.04	9.91
QP	904.195k	35.95	56.00	-20.05	19.65	Line	-	16.30	9.68	0.05	9.92
AV	904.195k	25.19	46.00	-20.81	19.65	Line	-	5.54	9.68	0.05	9.92
QP	3.18M	33.58	56.00	-22.42	19.74	Line	-	13.84	9.71	0.11	9.92
AV	3.18M	21.01	46.00	-24.99	19.74	Line	-	1.27	9.71	0.11	9.92
QP	13.489M	34.67	60.00	-25.33	19.95	Line	-	14.72	9.80	0.22	9.93
AV	13.489M	28.96	50.00	-21.04	19.95	Line	-	9.01	9.80	0.22	9.93

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	156.734k	42.95	65.64	-22.69	19.67	Neutral	-	23.28	9.73	0.03	9.91
AV	156.734k	20.01	55.64	-35.63	19.67	Neutral	-	0.34	9.73	0.03	9.91
QP	172.493k	45.08	64.83	-19.75	19.67	Neutral	-	25.41	9.73	0.03	9.91
AV	172.493k	30.85	54.83	-23.98	19.67	Neutral	-	11.18	9.73	0.03	9.91
QP	433.769k	46.29	57.19	-10.90	19.67	Neutral	-	26.62	9.72	0.04	9.91
AV	433.769k	31.44	47.19	-15.75	19.67	Neutral	-	11.77	9.72	0.04	9.91
QP	767.679k	36.23	56.00	-19.77	19.70	Neutral	-	16.53	9.73	0.05	9.92
AV	767.679k	25.67	46.00	-20.33	19.70	Neutral	-	5.97	9.73	0.05	9.92
QP	2.041M	37.91	56.00	-18.09	19.74	Neutral	-	18.17	9.74	0.08	9.92
AV	2.041M	28.86	46.00	-17.14	19.74	Neutral	-	9.12	9.74	0.08	9.92
QP	8.73M	41.82	60.00	-18.18	19.97	Neutral	-	21.85	9.87	0.17	9.93
AV	8.73M	34.49	50.00	-15.51	19.97	Neutral	-	14.52	9.87	0.17	9.93



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.24M	16.432M	16M5D1D	18.93M	16.312M
802.11ax HEW20_Nss1,(MCS0)_2TX	23.55M	18.951M	19M0D1D	20.73M	18.831M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.56M	37.841M	37M9D1D	40.02M	37.601M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.48M	76.762M	76M8D1D	81.12M	76.642M
802.11ax HEW160_Nss1,(MCS0)_2TX	82M	77.961M	78M0D1D	81.52M	77.801M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.01M	16.342M	16M4D1D	19.41M	16.282M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.3M	18.861M	18M9D1D	20.85M	18.861M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.38M	37.721M	37M8D1D	40.14M	37.661M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.24M	76.642M	76M7D1D	81.12M	76.522M
802.11ax HEW160_Nss1,(MCS0)_2TX	81.6M	77.721M	77M8D1D	81.44M	77.561M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	19.71M	16.342M	16M4D1D	14.445M	13.088M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.18M	18.861M	18M9D1D	15.255M	14.318M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.5M	37.781M	37M8D1D	35.07M	33.618M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.84M	76.762M	76M8D1D	75.825M	72.789M
802.11ax HEW160_Nss1,(MCS0)_2TX	163.92M	154.483M	154MD1D	163.44M	154.483M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	15.09M	23.808M	23M9D1D	3.12M	3.698M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.6M	22.369M	22M4D1D	4.42M	4.678M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.5M	38.501M	38M6D1D	3.96M	4.178M
802.11ax HEW80_Nss1,(MCS0)_2TX	68.52M	76.762M	76M8D1D	4M	4.338M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	18.93M	16.312M	19.92M	16.312M
5200MHz	Pass	Inf	20.4M	16.342M	21.24M	16.432M
5240MHz	Pass	Inf	20.55M	16.372M	20.52M	16.342M
5260MHz	Pass	Inf	19.41M	16.312M	19.53M	16.312M
5300MHz	Pass	Inf	19.59M	16.312M	19.62M	16.312M
5320MHz	Pass	Inf	19.56M	16.282M	20.01M	16.342M
5500MHz	Pass	Inf	19.47M	16.312M	19.71M	16.312M
5580MHz	Pass	Inf	19.41M	16.312M	19.56M	16.312M
5700MHz	Pass	Inf	19.44M	16.312M	19.65M	16.342M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.445M	13.088M	15.18M	13.088M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	3.698M	3.14M	3.698M
5745MHz	Pass	500k	15.06M	18.561M	15.09M	21.679M
5785MHz	Pass	500k	15.06M	18.261M	15.09M	19.25M
5825MHz	Pass	500k	15.06M	23.688M	15.03M	23.808M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.85M	18.831M	20.73M	18.861M
5200MHz	Pass	Inf	21.45M	18.891M	22.02M	18.891M
5240MHz	Pass	Inf	23.55M	18.951M	22.53M	18.951M
5260MHz	Pass	Inf	20.85M	18.861M	20.97M	18.861M
5300MHz	Pass	Inf	21.06M	18.861M	21.12M	18.861M
5320MHz	Pass	Inf	21.3M	18.861M	21.03M	18.861M
5500MHz	Pass	Inf	21.18M	18.831M	20.97M	18.861M
5580MHz	Pass	Inf	21.12M	18.861M	21.18M	18.831M
5700MHz	Pass	Inf	21.09M	18.831M	20.76M	18.831M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.27M	14.318M	15.255M	14.318M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.42M	4.678M	4.52M	4.678M
5745MHz	Pass	500k	16.5M	19.37M	14.22M	19.67M
5785MHz	Pass	500k	15.21M	19.19M	18.6M	19.25M
5825MHz	Pass	500k	18.15M	22.369M	18.51M	21.559M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.02M	37.601M	40.14M	37.661M
5230MHz	Pass	Inf	40.2M	37.781M	40.56M	37.841M
5270MHz	Pass	Inf	40.14M	37.661M	40.14M	37.721M
5310MHz	Pass	Inf	40.38M	37.661M	40.2M	37.661M
5510MHz	Pass	Inf	40.32M	37.721M	40.26M	37.781M
5550MHz	Pass	Inf	40.14M	37.661M	40.2M	37.721M
5670MHz	Pass	Inf	40.38M	37.721M	40.5M	37.721M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.07M	33.653M	35.14M	33.618M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	4.198M	3.96M	4.178M
5755MHz	Pass	500k	37.5M	38.081M	34.26M	38.501M
5795MHz	Pass	500k	36.3M	38.441M	36.42M	38.501M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.12M	76.642M	81.48M	76.762M
5290MHz	Pass	Inf	81.24M	76.522M	81.12M	76.642M
5530MHz	Pass	Inf	81.36M	76.762M	81.84M	76.762M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5610MHz	Pass	Inf	81.72M	76.762M	81.6M	76.762M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.825M	72.864M	75.825M	72.789M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4M	4.338M	4.04M	4.358M
5775MHz	Pass	500k	68.52M	76.642M	58.92M	76.762M
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82M	77.961M	81.52M	77.801M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.44M	77.721M	81.6M	77.561M
5570MHz	Pass	Inf	163.44M	154.483M	163.92M	154.483M

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

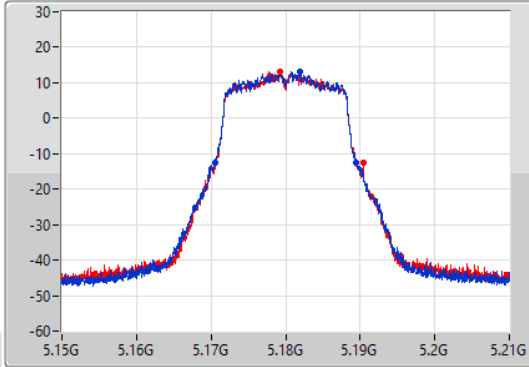
802.11a_Nss1,(6Mbps)_2TX

EBW

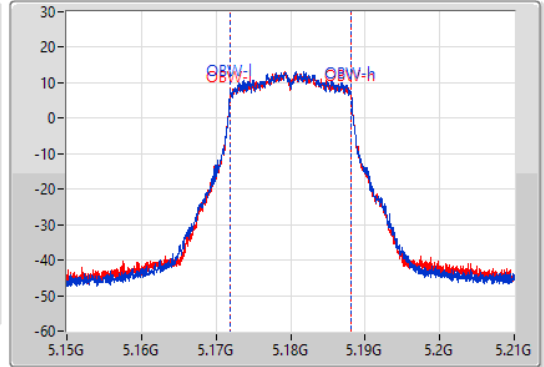
5180MHz

04/08/2022

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



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



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.93M	5.17058G	5.18951G	16.312M	5.171874G	5.188186G	Inf	1
19.92M	5.17055G	5.19047G	16.312M	5.171874G	5.188186G	Inf	2

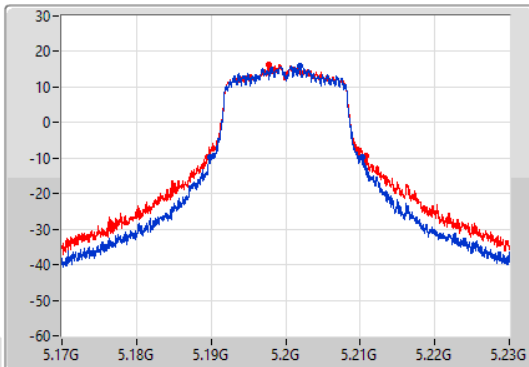
802.11a_Nss1,(6Mbps)_2TX

EBW

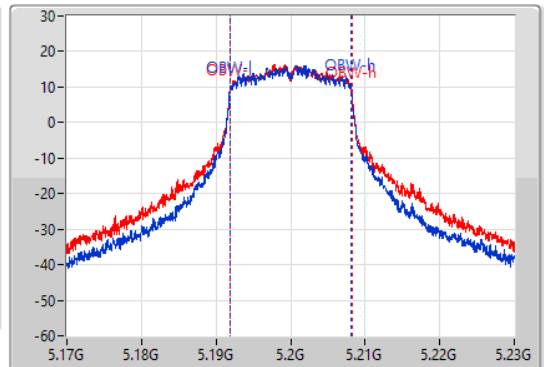
5200MHz

04/08/2022

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



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



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.4M	5.18983G	5.21023G	16.342M	5.191844G	5.208186G	Inf	1
21.24M	5.18959G	5.21083G	16.432M	5.191814G	5.208246G	Inf	2

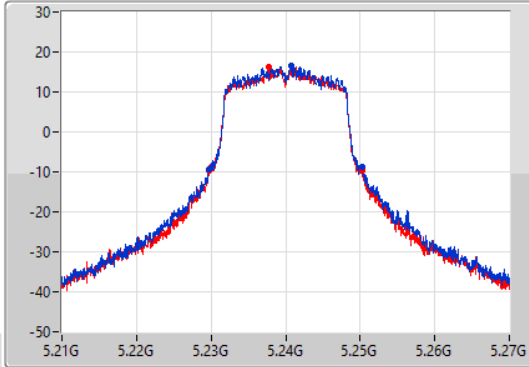
802.11a_Nss1,(6Mbps)_2TX

EBW

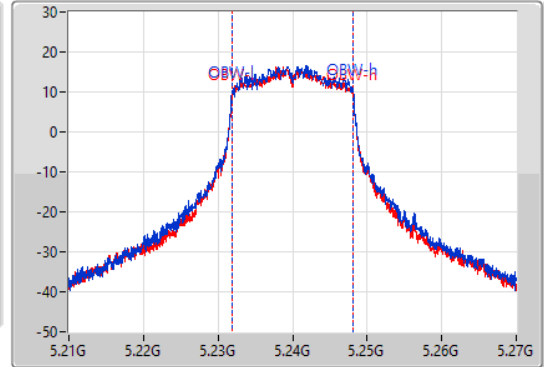
5240MHz

04/08/2022

CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.55M	5.22968G	5.25023G	16.372M	5.231814G	5.248186G	Inf	1
20.52M	5.22968G	5.2502G	16.342M	5.231844G	5.248186G	Inf	2

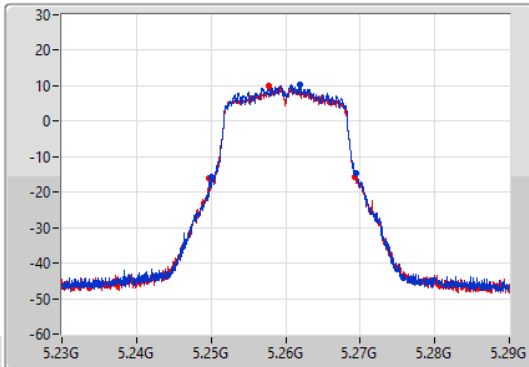
802.11a_Nss1,(6Mbps)_2TX

EBW

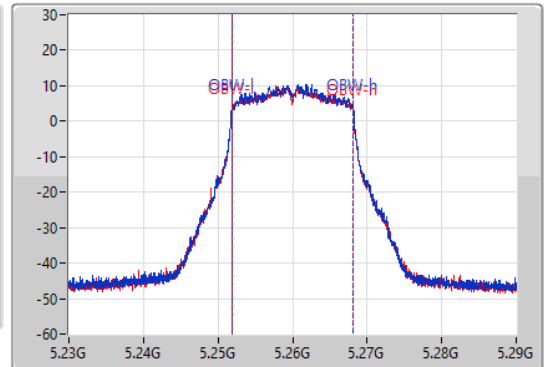
5260MHz

04/08/2022

CF
5.26GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.26GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.41M	5.25001G	5.26942G	16.312M	5.251844G	5.268156G	Inf	1
19.53M	5.2498G	5.26933G	16.312M	5.251844G	5.268156G	Inf	2

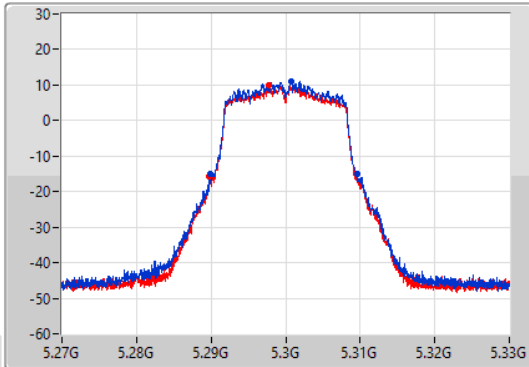
802.11a_Nss1,(6Mbps)_2TX

EBW

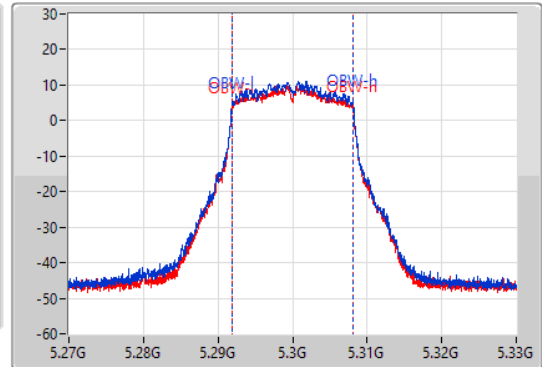
5300MHz

04/08/2022

CF
5.3GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.3GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.59M	5.28995G	5.30954G	16.312M	5.291844G	5.308156G	Inf	1
19.62M	5.2898G	5.30942G	16.312M	5.291844G	5.308156G	Inf	2

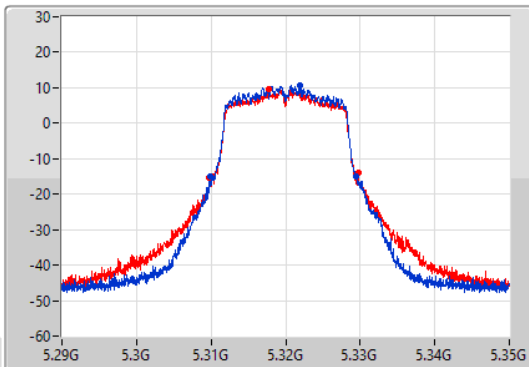
802.11a_Nss1,(6Mbps)_2TX

EBW

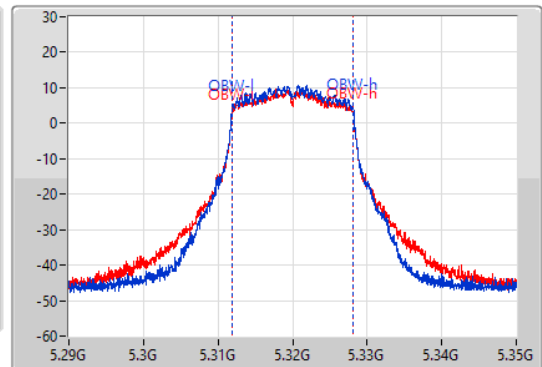
5320MHz

04/08/2022

CF
5.32GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.32GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.56M	5.30995G	5.32951G	16.282M	5.311874G	5.328156G	Inf	1
20.01M	5.30977G	5.32978G	16.342M	5.311844G	5.328186G	Inf	2

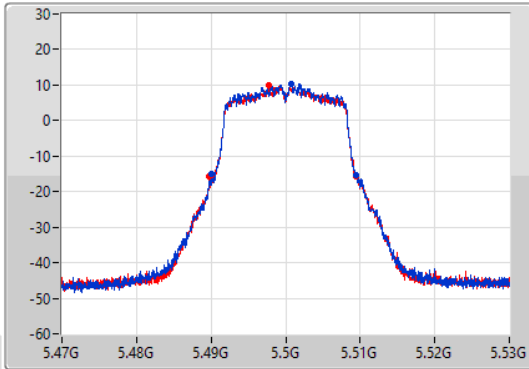
802.11a_Nss1,(6Mbps)_2TX

EBW

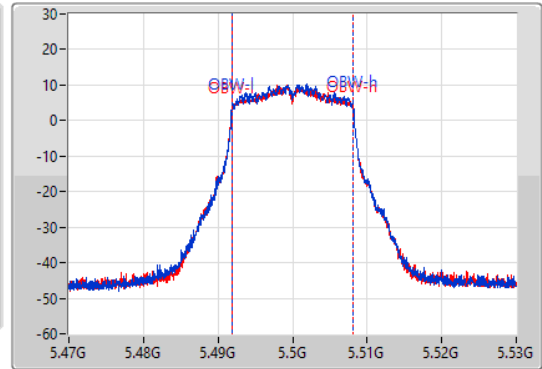
5500MHz

04/08/2022

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



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



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.47M	5.49004G	5.50951G	16.312M	5.491844G	5.508156G	Inf	1
19.71M	5.4898G	5.50951G	16.312M	5.491844G	5.508156G	Inf	2

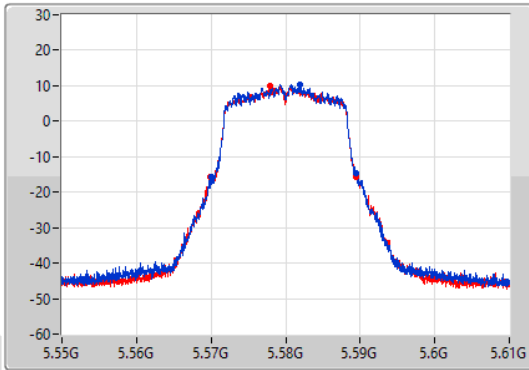
802.11a_Nss1,(6Mbps)_2TX

EBW

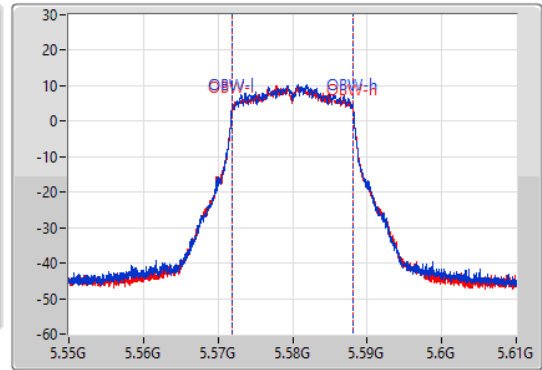
5580MHz

04/08/2022

CF
5.58GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.58GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.41M	5.57001G	5.58942G	16.312M	5.571844G	5.588156G	Inf	1
19.56M	5.56983G	5.58939G	16.312M	5.571844G	5.588156G	Inf	2

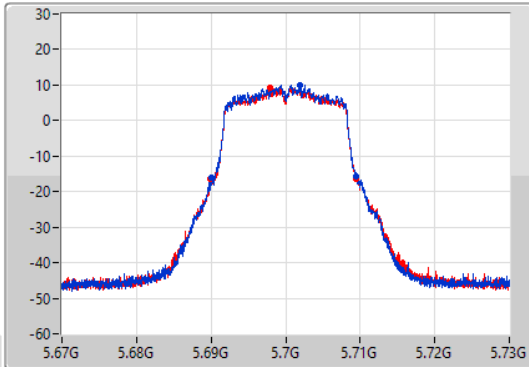
802.11a_Nss1,(6Mbps)_2TX

EBW

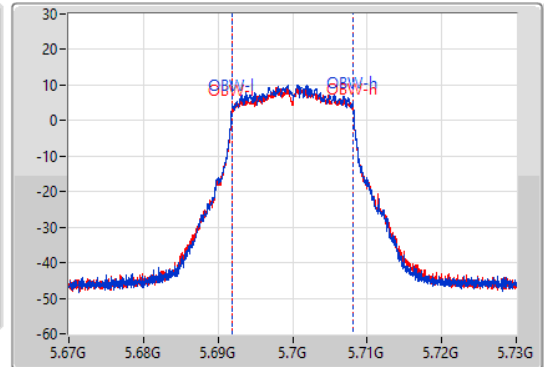
5700MHz

04/08/2022

CF
5.7GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.7GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.44M	5.69004G	5.70948G	16.312M	5.691844G	5.708156G	Inf	1
19.65M	5.68983G	5.70948G	16.342M	5.691844G	5.708186G	Inf	2

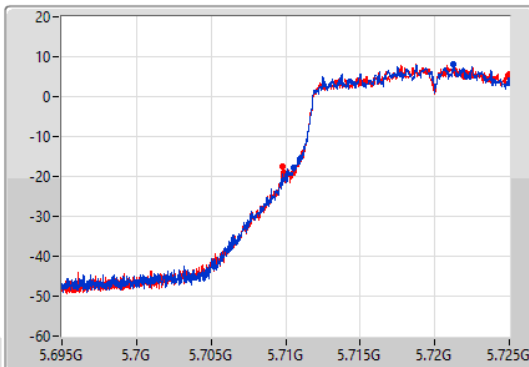
802.11a_Nss1,(6Mbps)_2TX

EBW

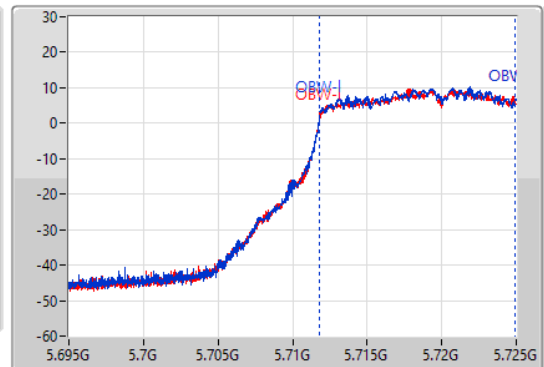
5720MHz Straddle 5.47-5.725GHz

04/08/2022

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



CF
5.71GHz
Span
30MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.445M	5.710555G	5.725G	13.088M	5.711829G	5.724918G	Inf	1
15.18M	5.70982G	5.725G	13.088M	5.711829G	5.724918G	Inf	2

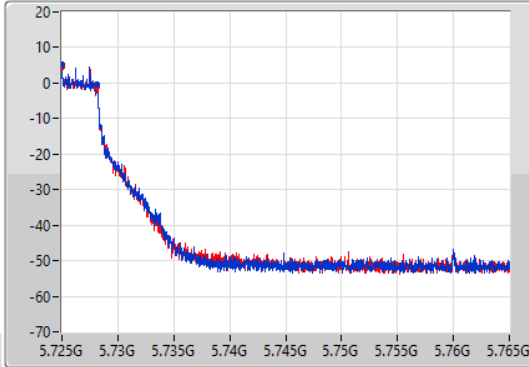
802.11a_Nss1,(6Mbps)_2TX

EBW

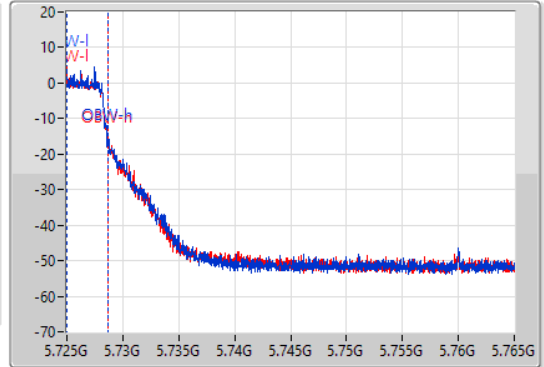
5720MHz Straddle 5.725-5.85GHz

04/08/2022

CF
5.745GHz
Span
40MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.745GHz
Span
40MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.12M	5.725G	5.72812G	3.698M	5.72501G	5.728708G	500k	1
3.14M	5.725G	5.72814G	3.698M	5.72501G	5.728708G	500k	2

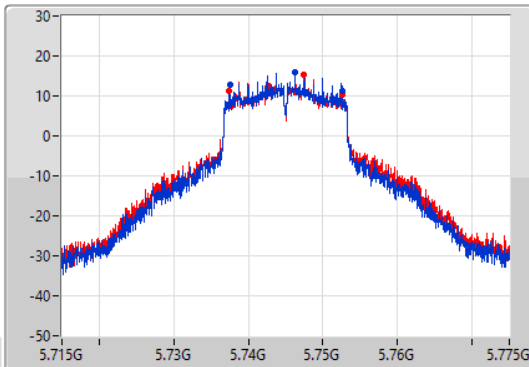
802.11a_Nss1,(6Mbps)_2TX

EBW

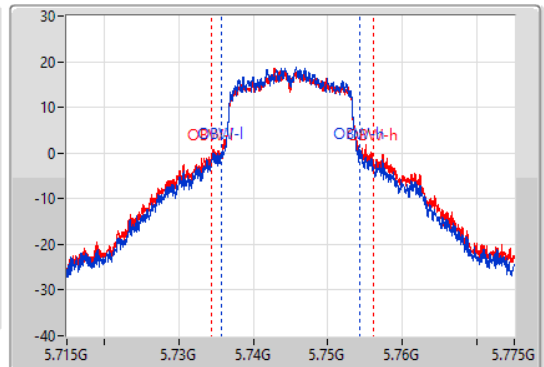
5745MHz

04/08/2022

CF
5.745GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.745GHz
Span
60MHz
RBW
100kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.06M	5.7375G	5.75256G	18.561M	5.735705G	5.754265G	500k	1
15.09M	5.73747G	5.75256G	21.679M	5.734385G	5.756064G	500k	2

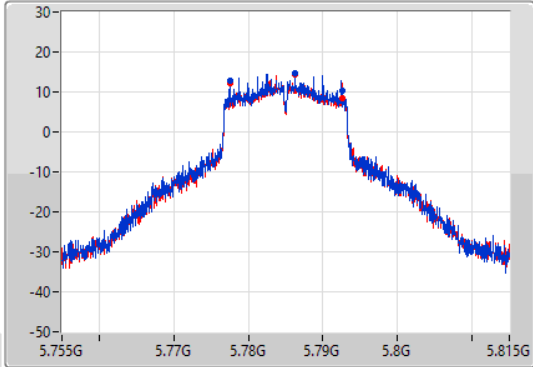
802.11a_Nss1,(6Mbps)_2TX

EBW

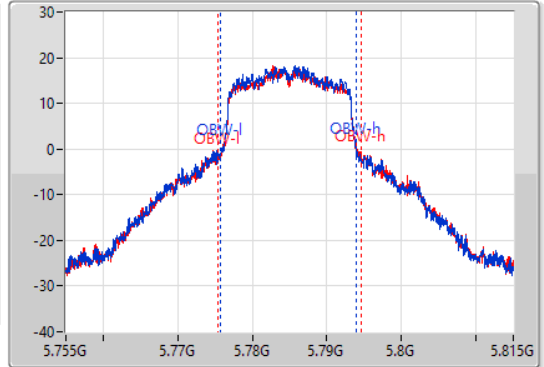
5785MHz

04/08/2022

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.06M	5.7775G	5.79256G	18.261M	5.775675G	5.793936G	500k	1
15.09M	5.7775G	5.79259G	19.25M	5.775315G	5.794565G	500k	2

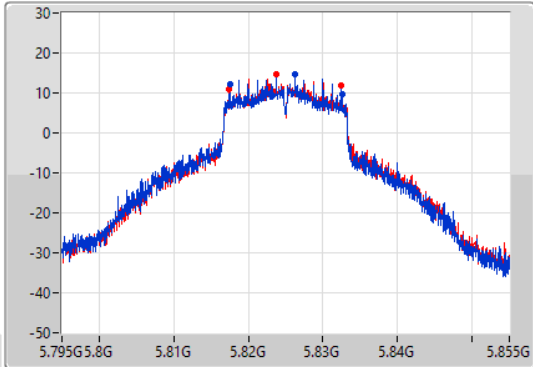
802.11a_Nss1,(6Mbps)_2TX

EBW

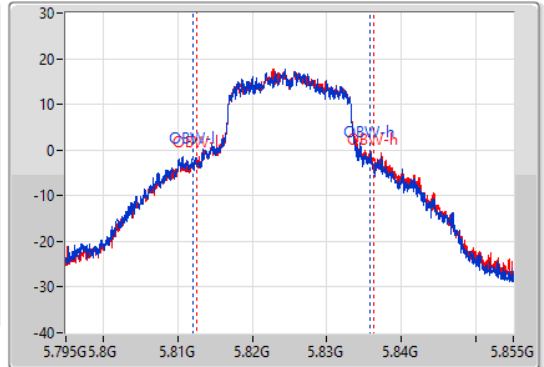
5825MHz

04/08/2022

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



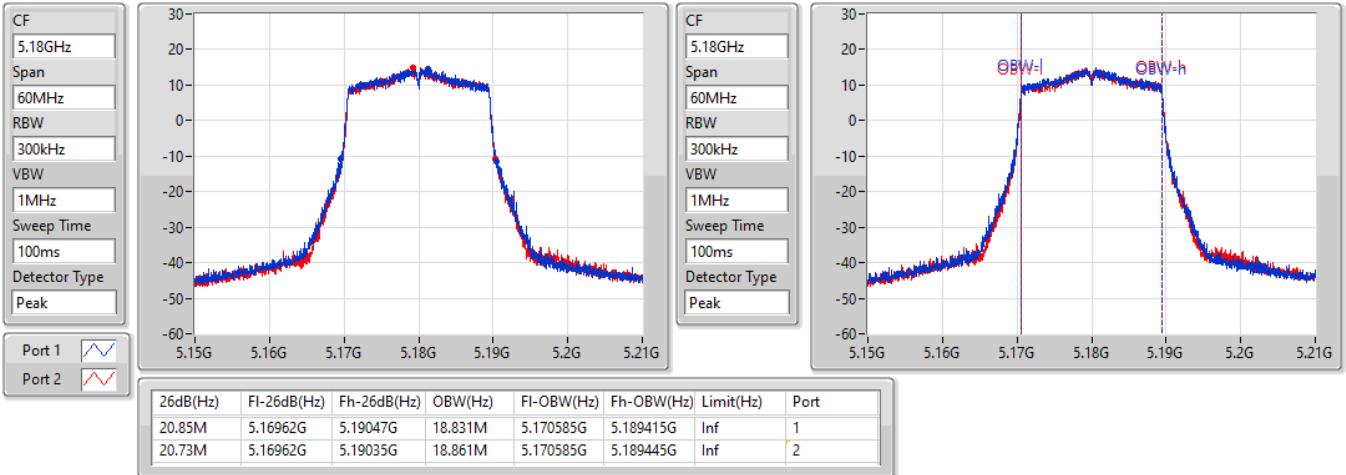
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.06M	5.8175G	5.83256G	23.688M	5.812016G	5.835705G	500k	1
15.03M	5.81747G	5.8325G	23.808M	5.812526G	5.836334G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5180MHz

04/08/2022

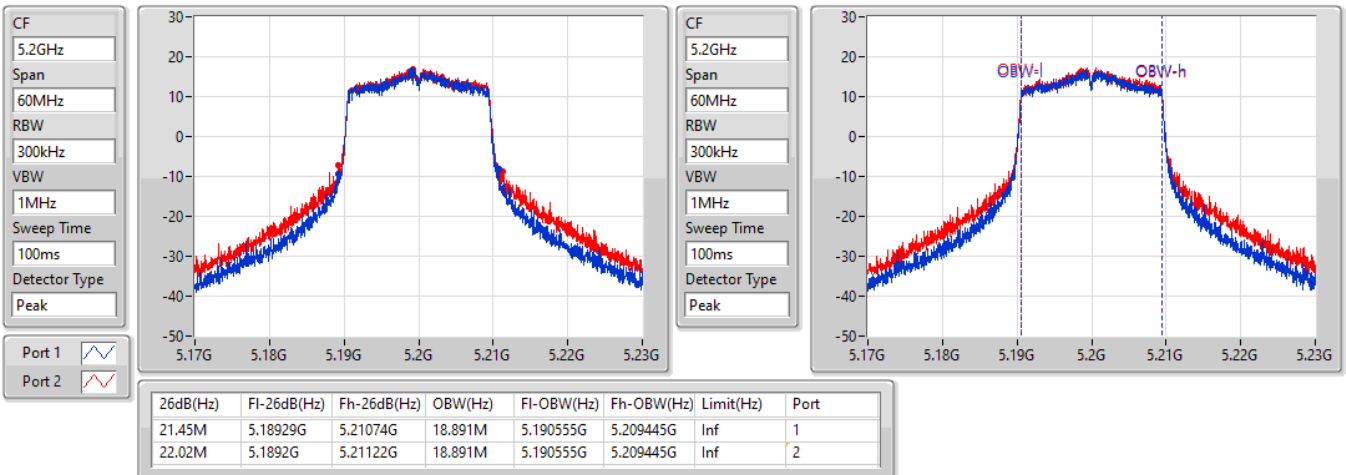


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5200MHz

04/08/2022

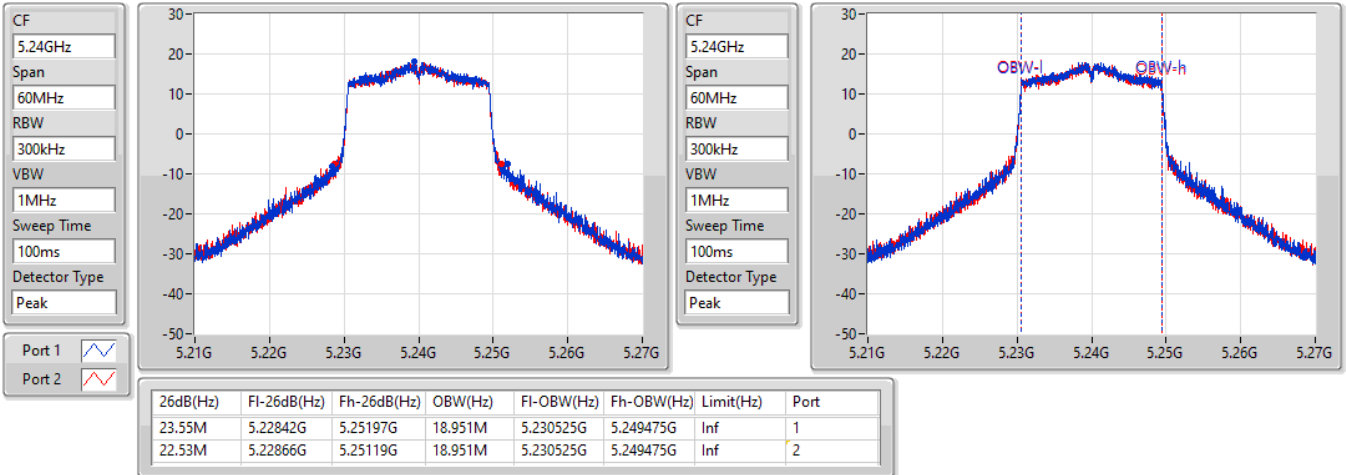


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5240MHz

04/08/2022

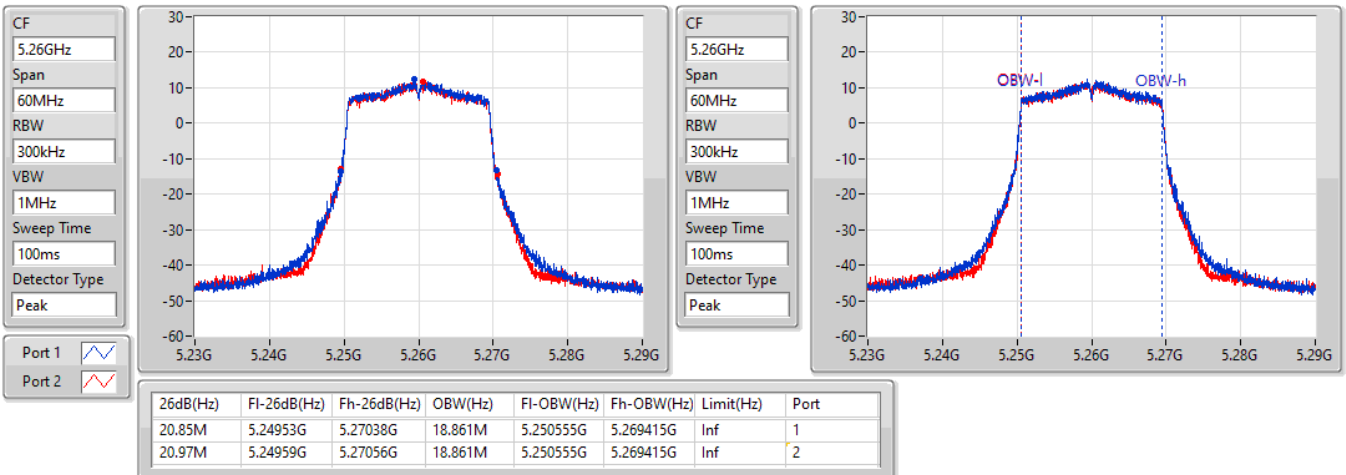


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5260MHz

04/08/2022

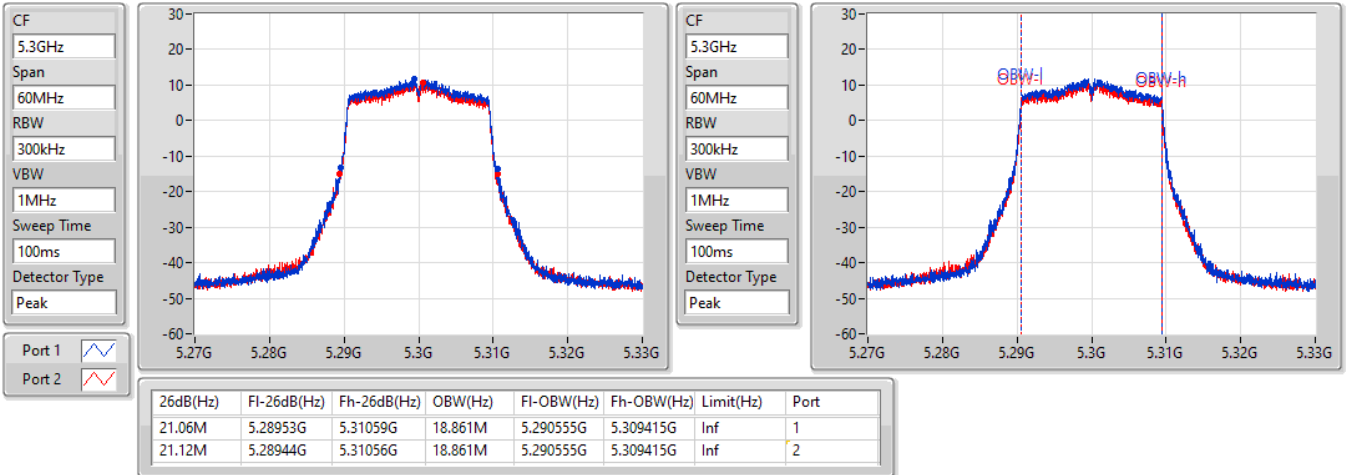


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5300MHz

04/08/2022

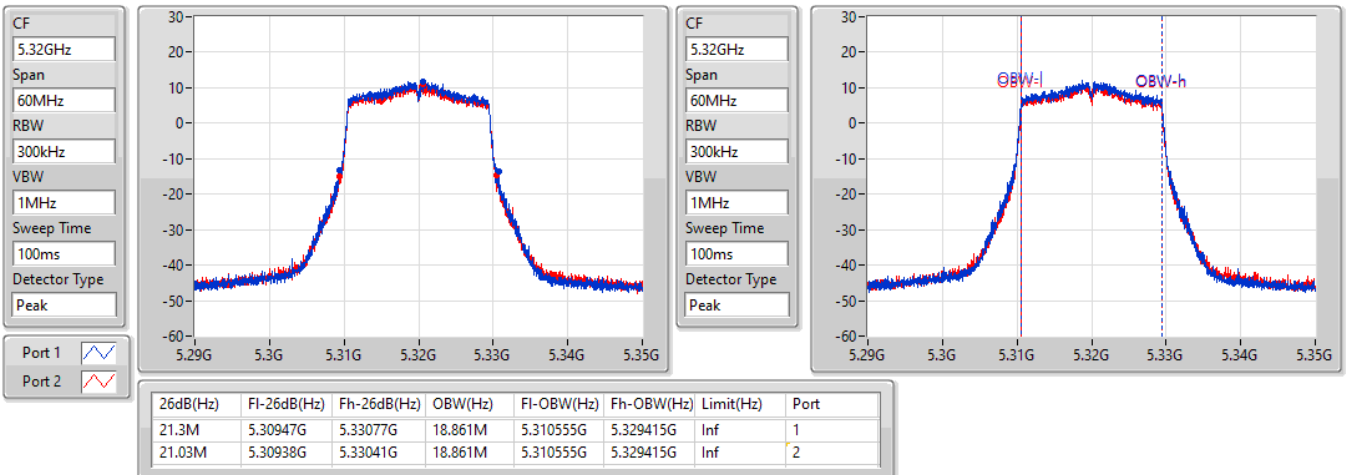


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5320MHz

04/08/2022

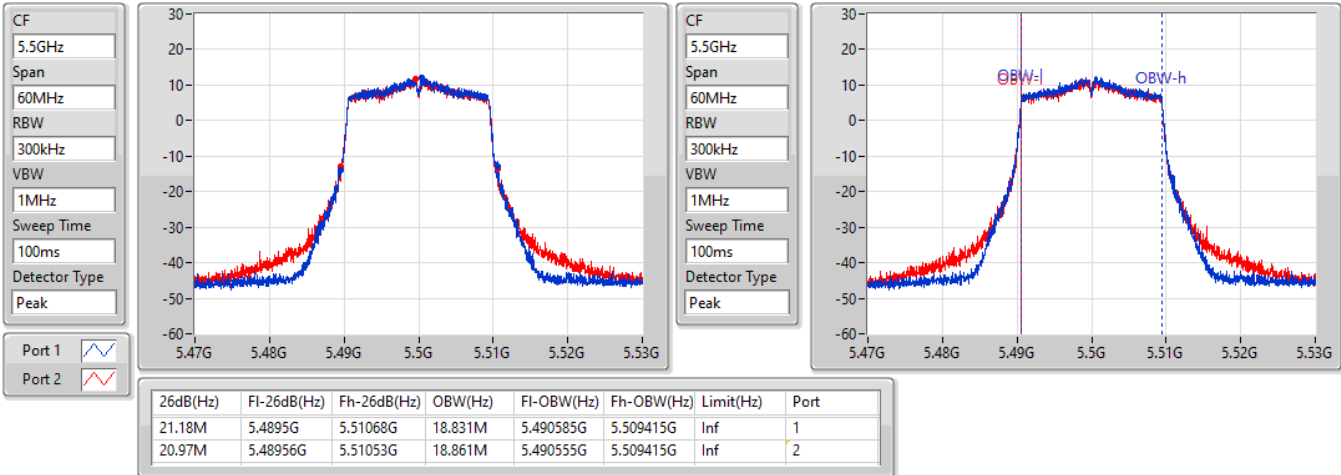


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5500MHz

04/08/2022

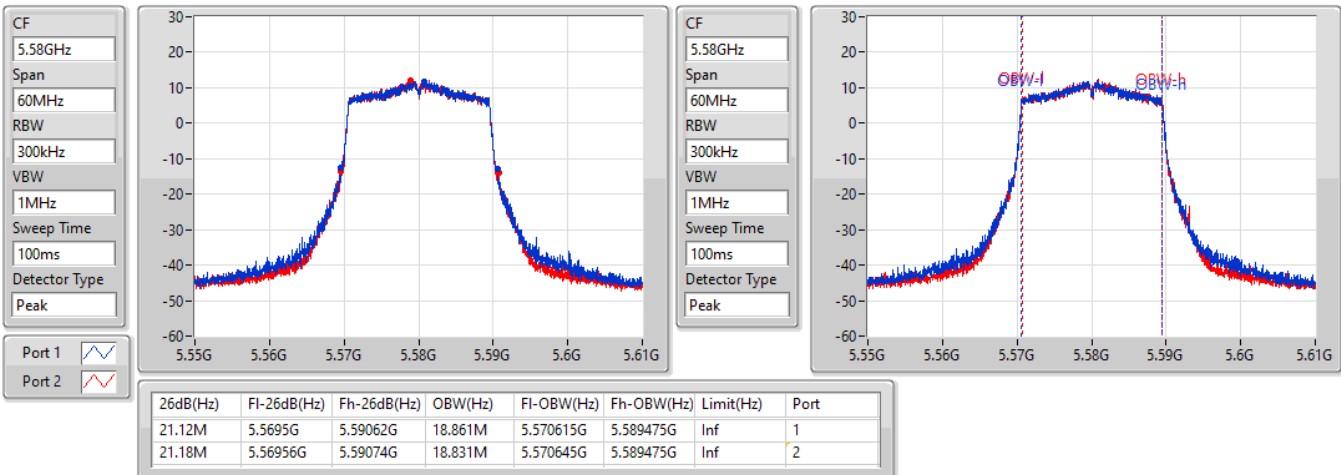


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5580MHz

04/08/2022

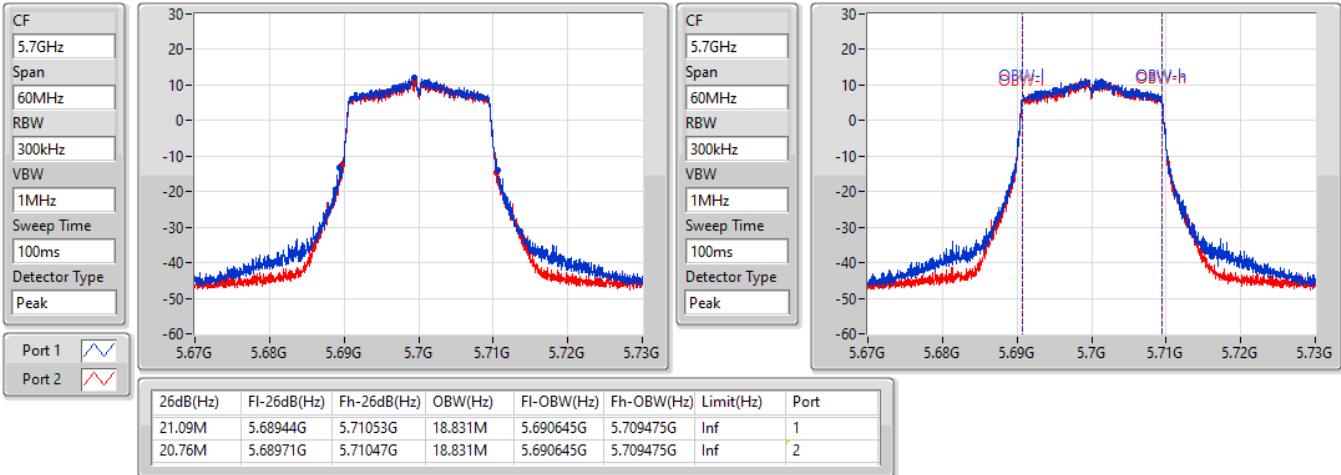


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5700MHz

04/08/2022

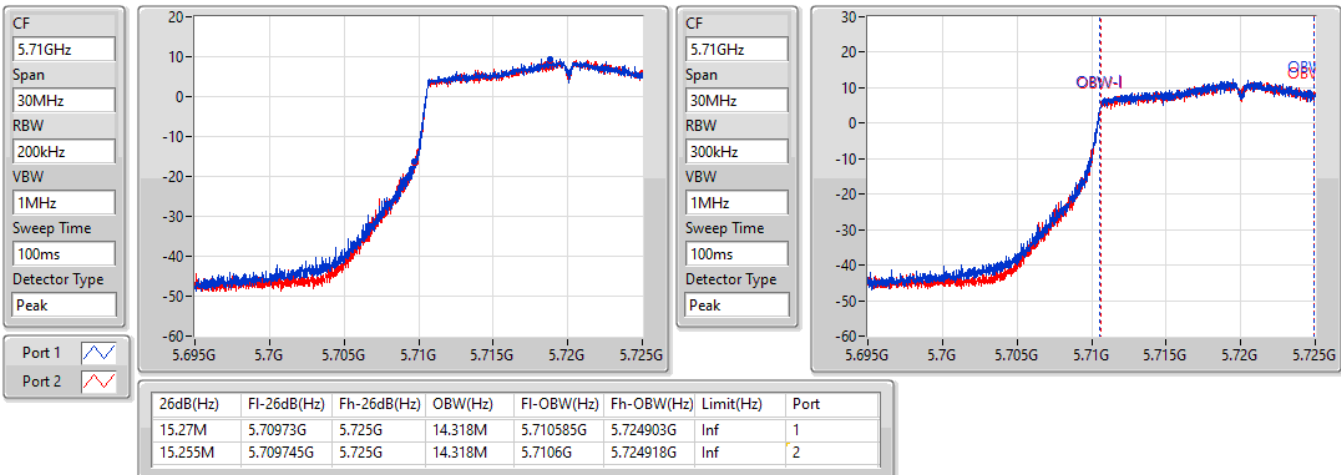


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

04/08/2022

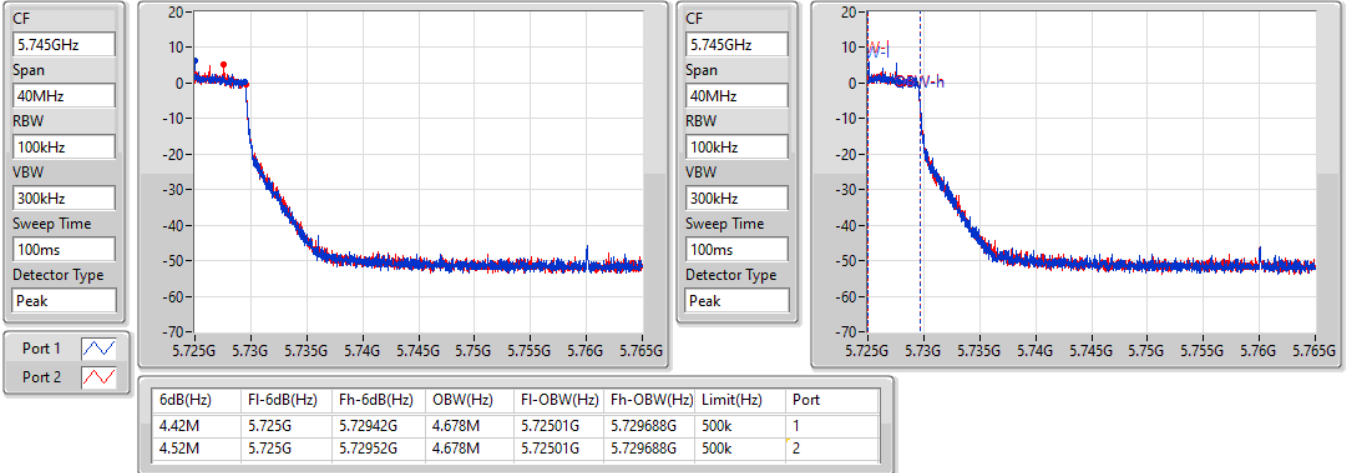


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

04/08/2022

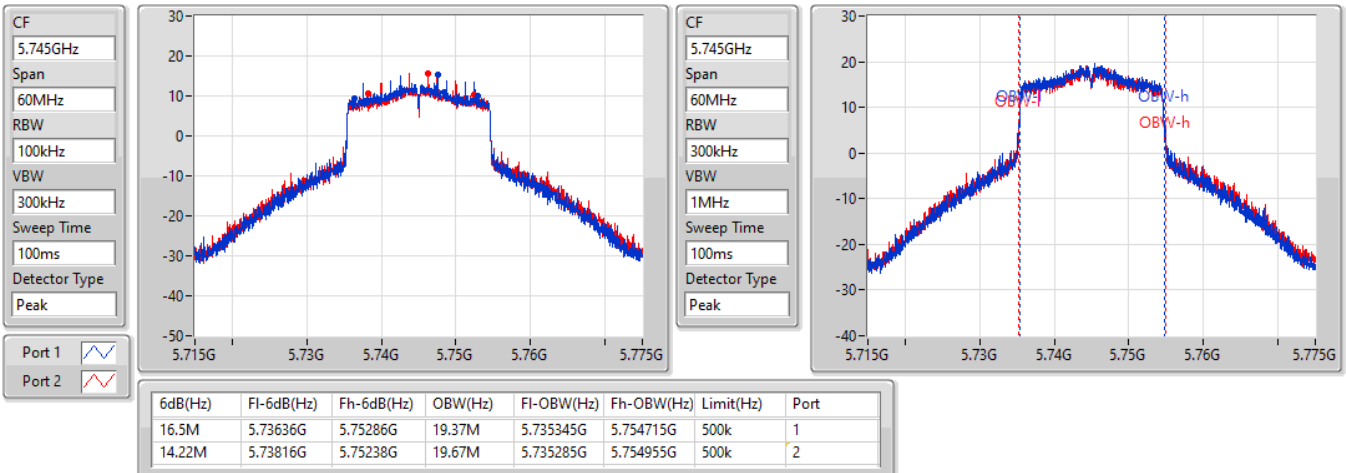


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5745MHz

04/08/2022



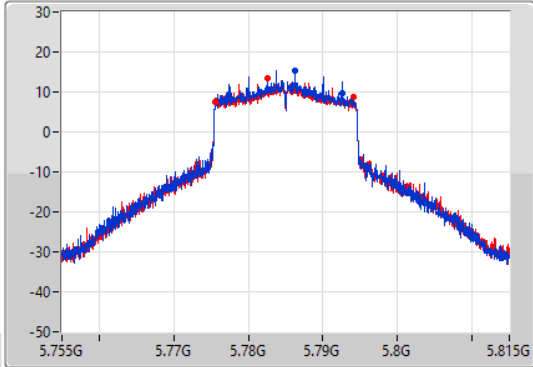
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

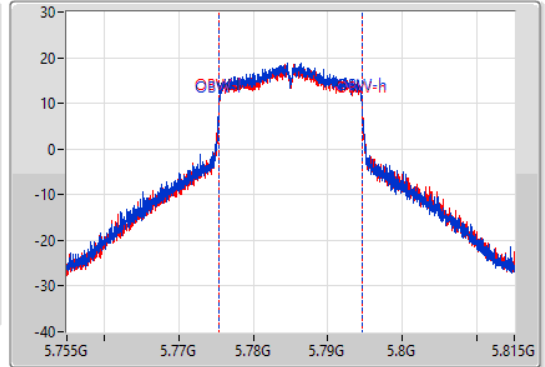
5785MHz

04/08/2022

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.21M	5.77735G	5.79256G	19.19M	5.775405G	5.794595G	500k	1
18.6M	5.77558G	5.79418G	19.25M	5.775405G	5.794655G	500k	2

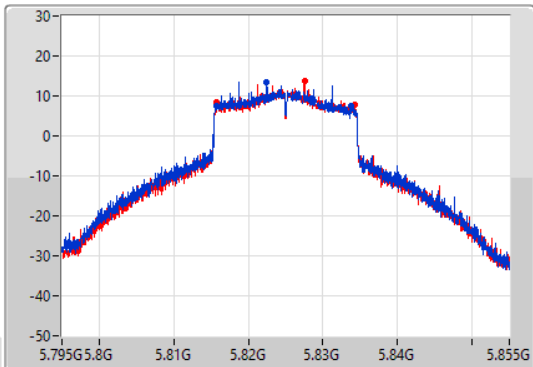
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

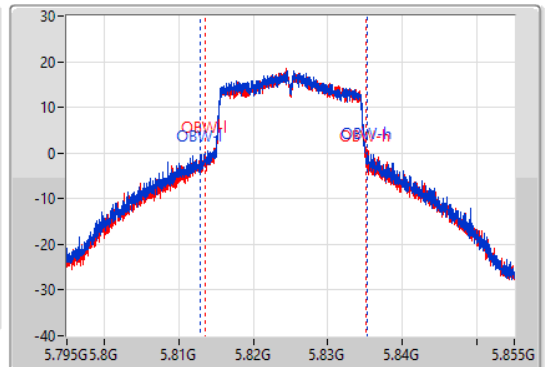
5825MHz

04/08/2022

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



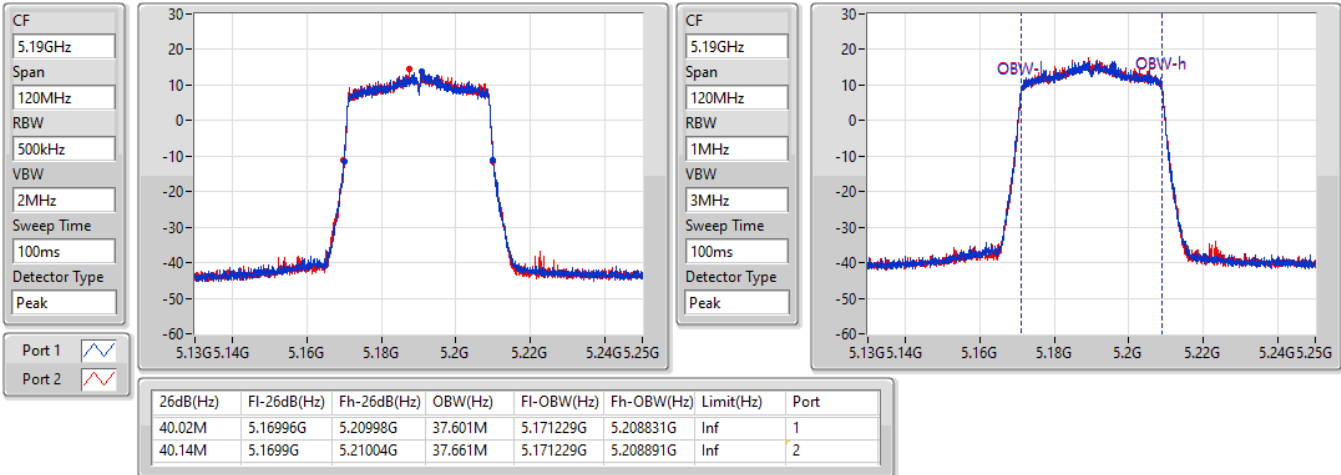
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.15M	5.81567G	5.83382G	22.369M	5.812946G	5.835315G	500k	1
18.51M	5.8157G	5.83421G	21.559M	5.813516G	5.835075G	500k	2

802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5190MHz

04/08/2022

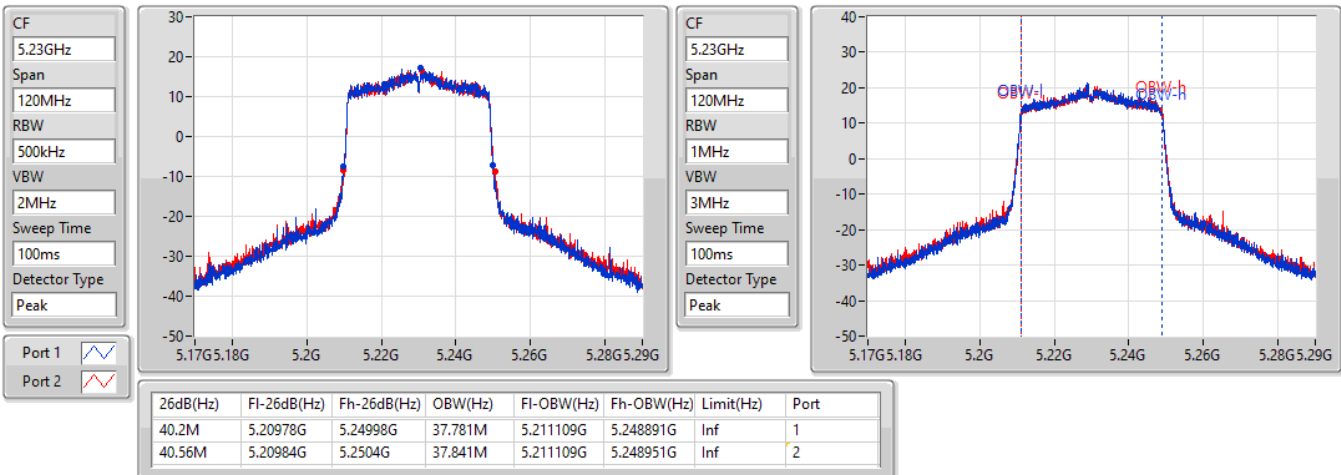


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5230MHz

04/08/2022

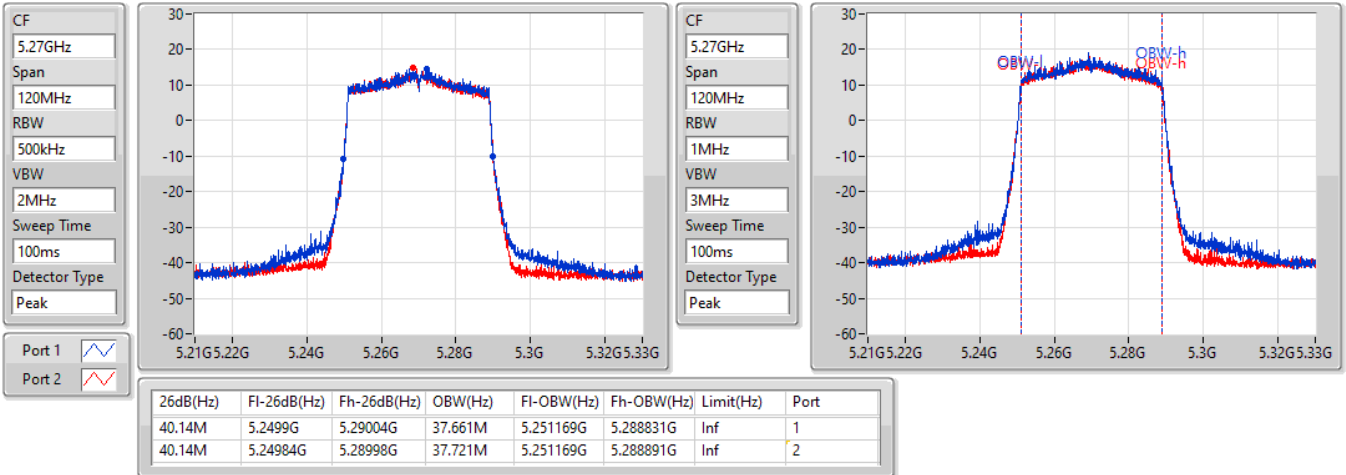


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5270MHz

04/08/2022

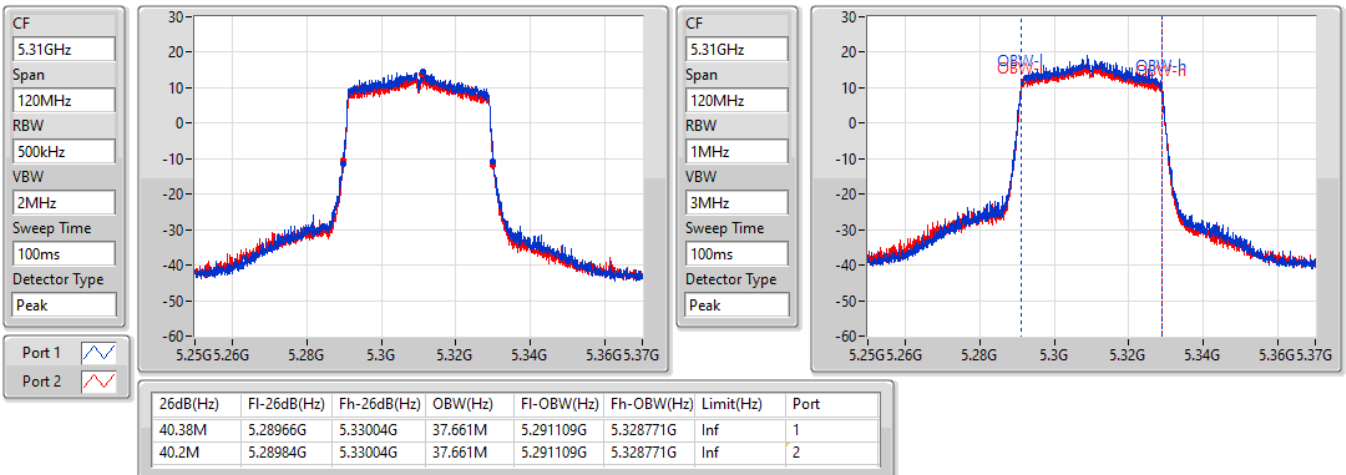


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5310MHz

04/08/2022



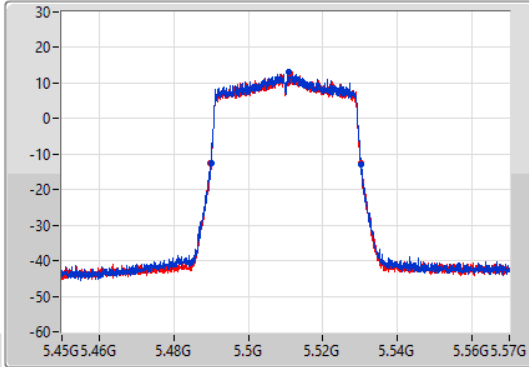
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

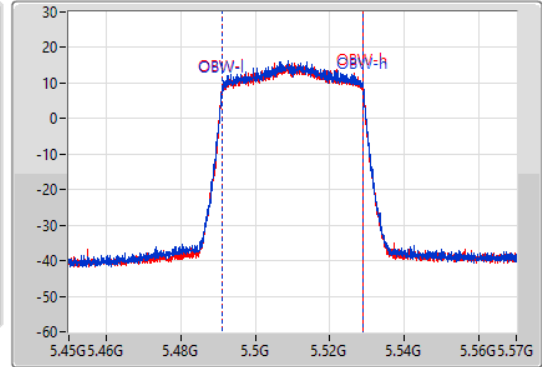
5510MHz

04/08/2022

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



CF
5.51GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.32M	5.49002G	5.53034G	37.721M	5.491169G	5.528891G	Inf	1
40.26M	5.4899G	5.53016G	37.781M	5.491109G	5.528891G	Inf	2

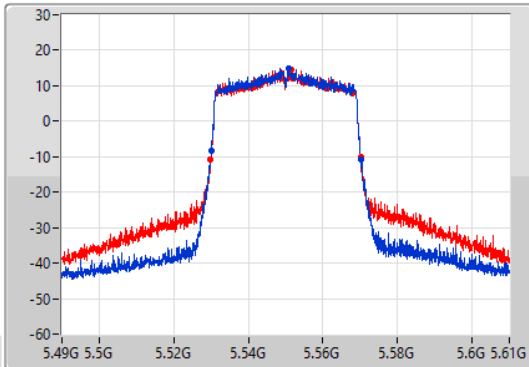
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

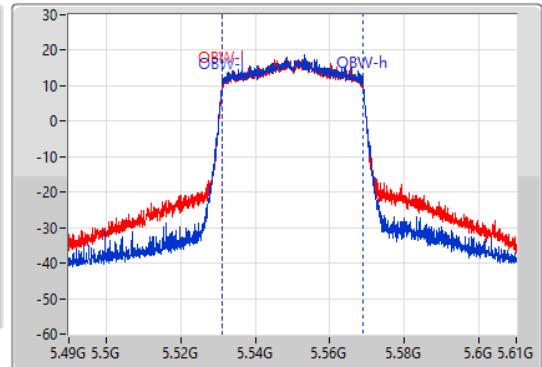
5550MHz

04/08/2022

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



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



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.14M	5.53002G	5.57016G	37.661M	5.531169G	5.568831G	Inf	1
40.2M	5.5299G	5.5701G	37.721M	5.531169G	5.568891G	Inf	2

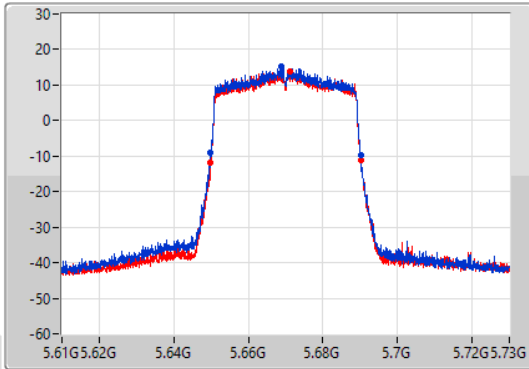
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

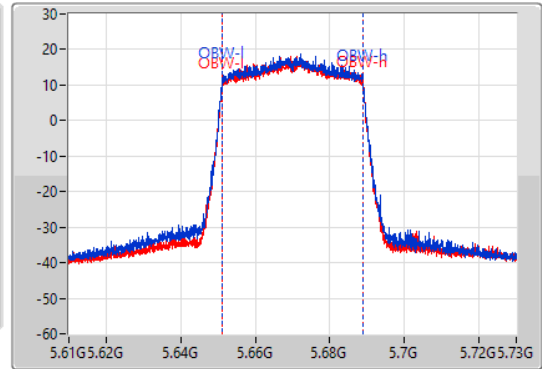
5670MHz

04/08/2022

CF
5.67GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.67GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.38M	5.6499G	5.69028G	37.721M	5.651109G	5.688831G	Inf	1
40.5M	5.64978G	5.69028G	37.721M	5.651169G	5.688891G	Inf	2

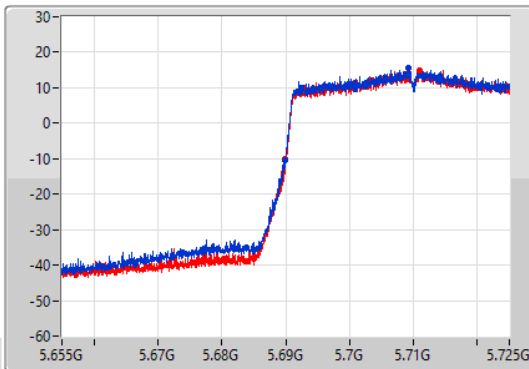
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

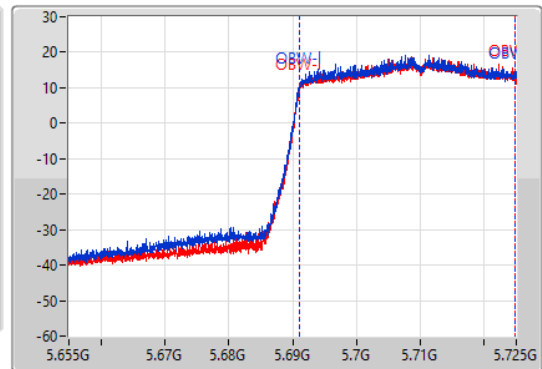
5710MHz Straddle 5.47-5.725GHz

04/08/2022

CF
5.69GHz
Span
70MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.69GHz
Span
70MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.07M	5.68993G	5.725G	33.653M	5.691119G	5.724773G	Inf	1
35.14M	5.68986G	5.725G	33.618M	5.691154G	5.724773G	Inf	2

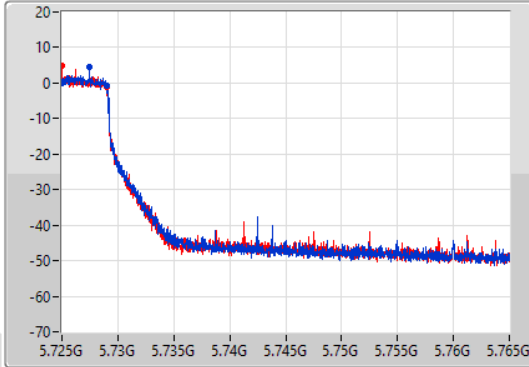
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

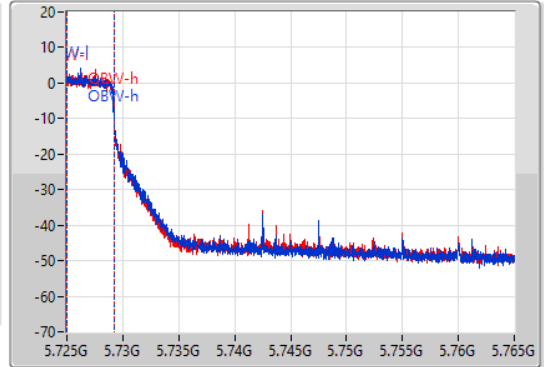
5710MHz Straddle 5.725-5.85GHz

04/08/2022

CF
5.745GHz
Span
40MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.745GHz
Span
40MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.02M	5.725G	5.72902G	4.198M	5.72501G	5.729208G	500k	1
3.96M	5.725G	5.72896G	4.178M	5.72501G	5.729188G	500k	2

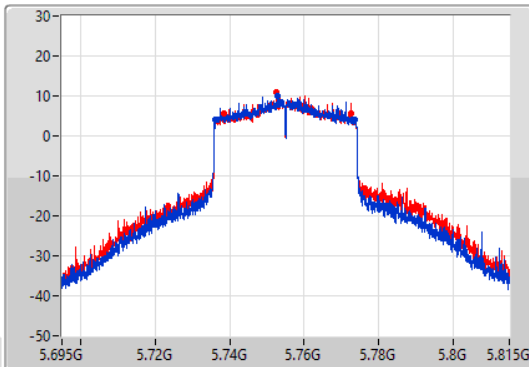
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

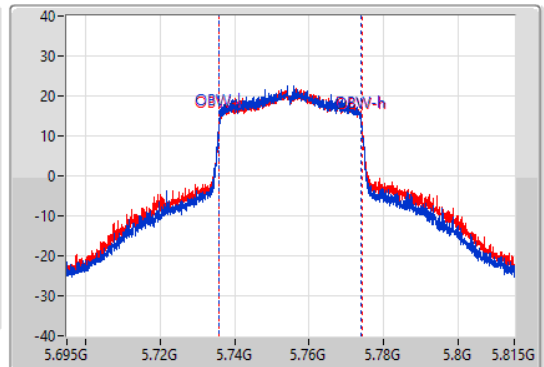
5755MHz

04/08/2022

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.5M	5.73616G	5.77366G	38.081M	5.73593G	5.77401G	500k	1
34.26M	5.73832G	5.77258G	38.501M	5.73581G	5.77431G	500k	2

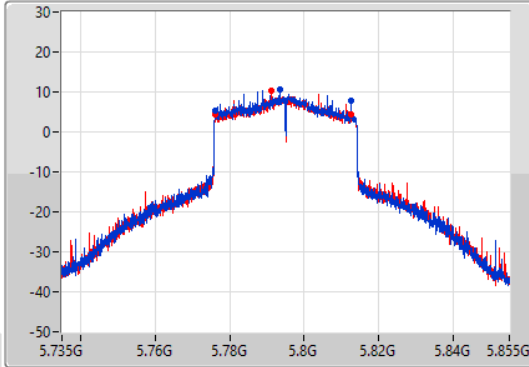
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

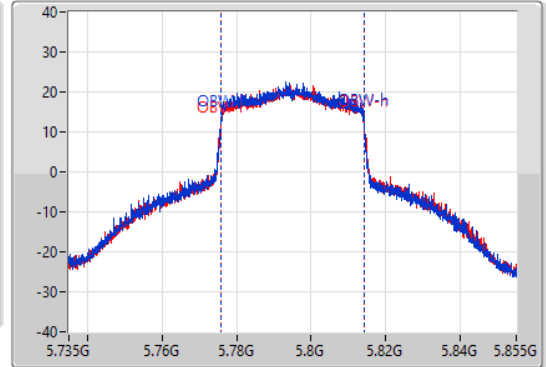
5795MHz

04/08/2022

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.77622G	5.81252G	38.441M	5.77569G	5.81413G	500k	1
36.42M	5.7761G	5.81252G	38.501M	5.77575G	5.81425G	500k	2

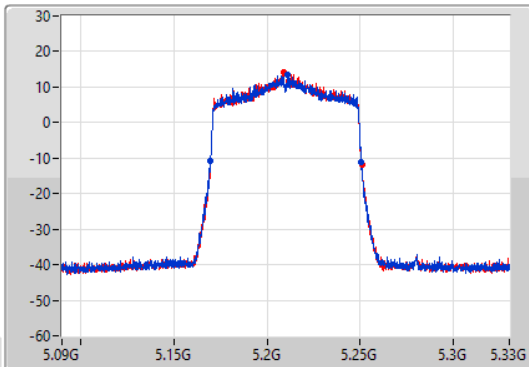
802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

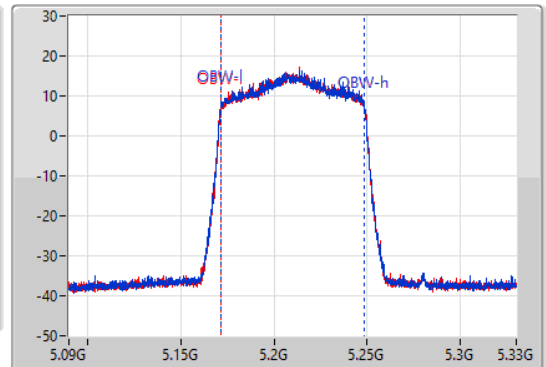
5210MHz

04/08/2022

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



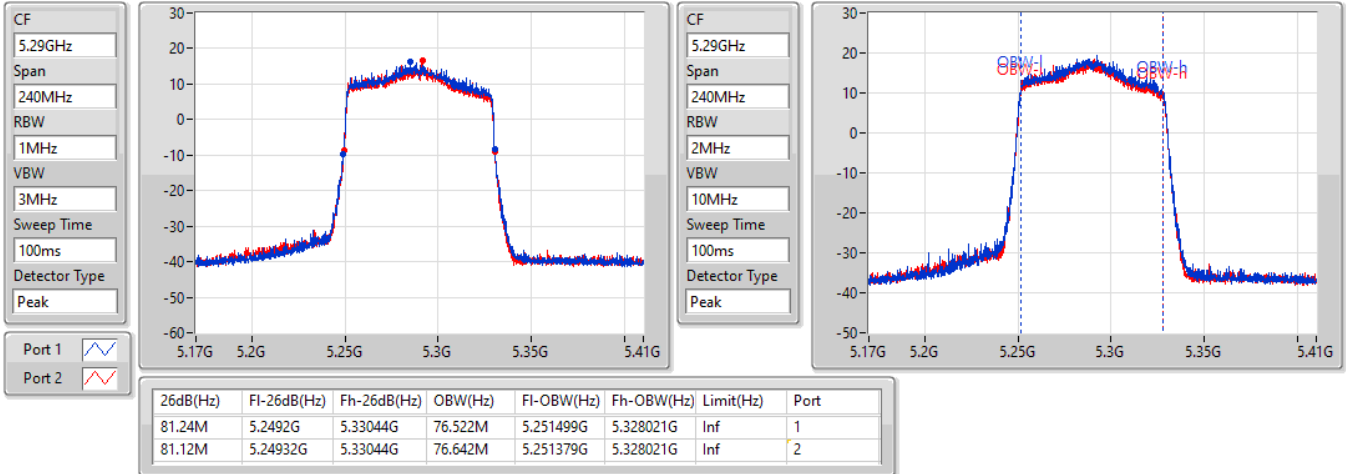
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.12M	5.16944G	5.25056G	76.642M	5.171739G	5.248381G	Inf	1
81.48M	5.16944G	5.25092G	76.762M	5.171739G	5.248501G	Inf	2

802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5290MHz

04/08/2022

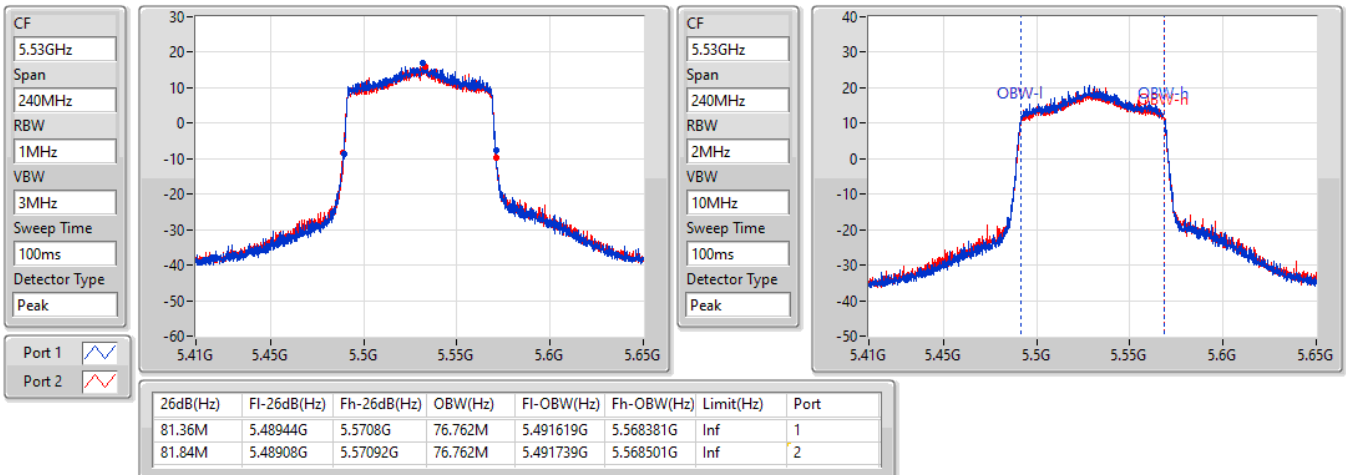


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5530MHz

04/08/2022

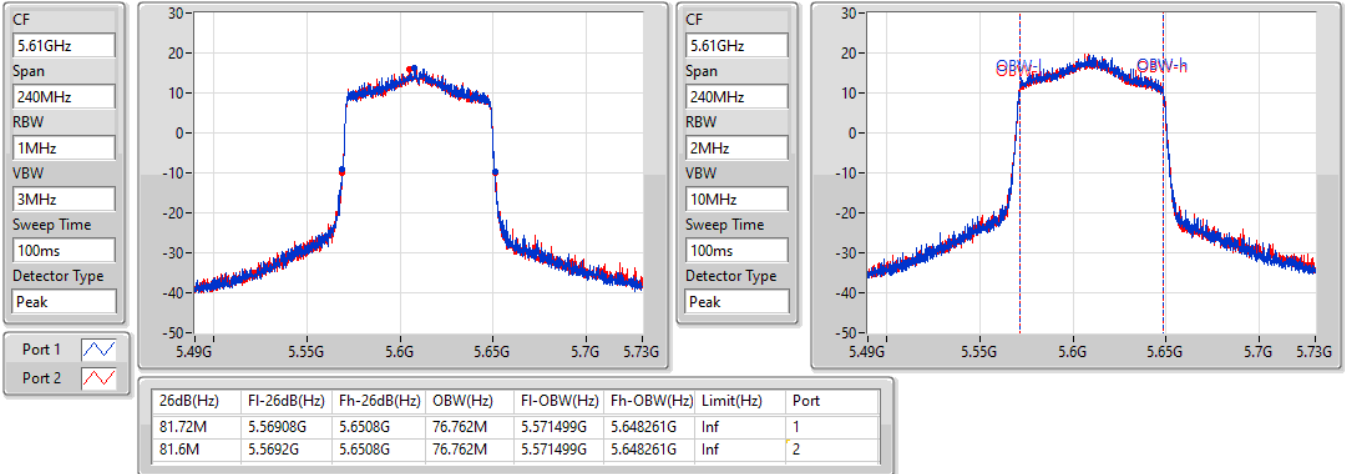


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5610MHz

04/08/2022

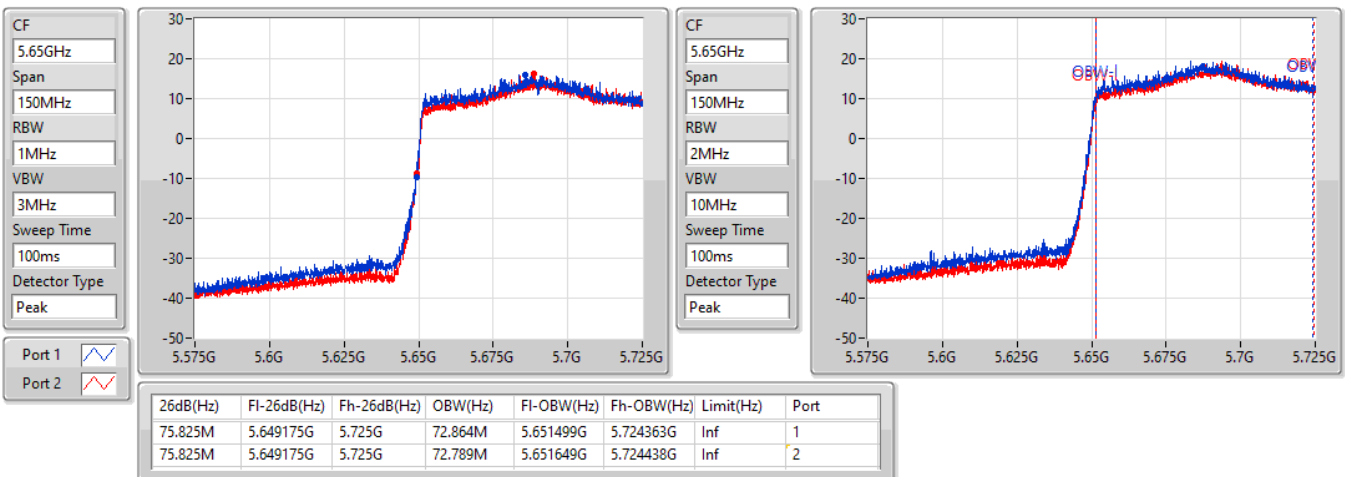


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

04/08/2022

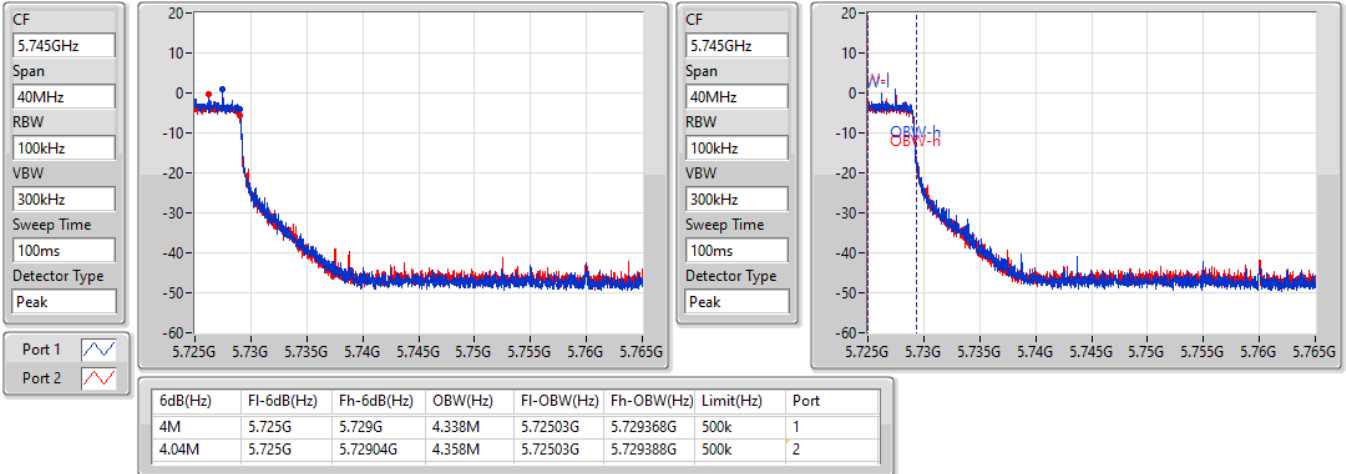


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

04/08/2022

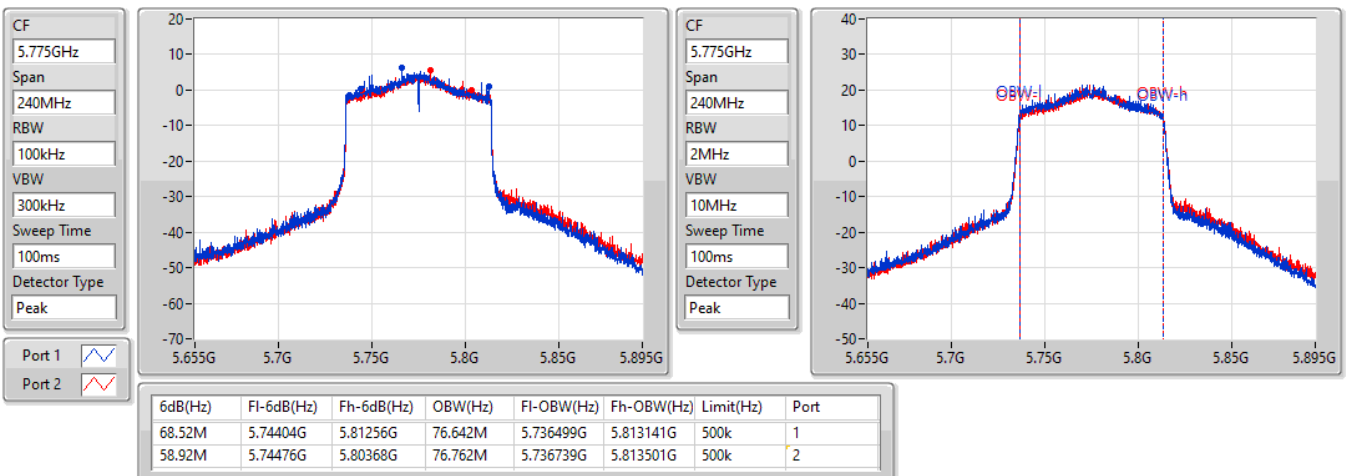


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

04/08/2022



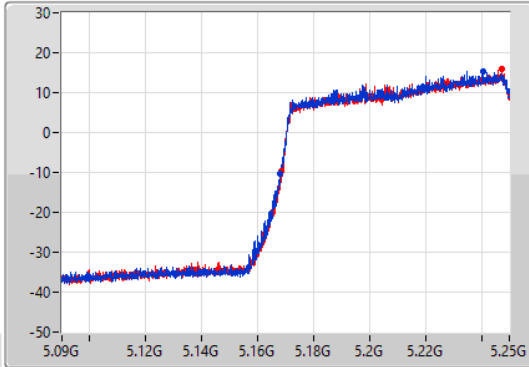
802.11ax HEW160_Nss1,(MCS0)_2TX

EBW

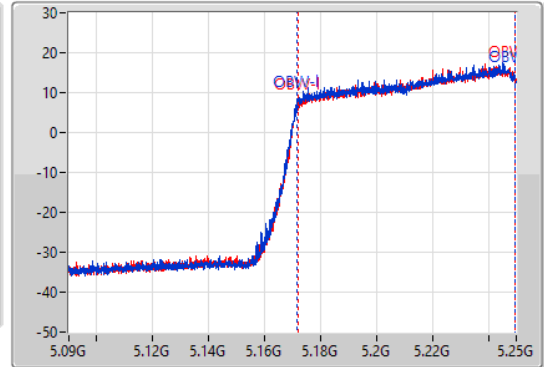
5250MHz Straddle 5.15-5.25GHz

04/08/2022

CF
5.17GHz
Span
160MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.17GHz
Span
160MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82M	5.168G	5.25G	77.961M	5.171679G	5.24964G	Inf	1
81.52M	5.16848G	5.25G	77.801M	5.171839G	5.24964G	Inf	2

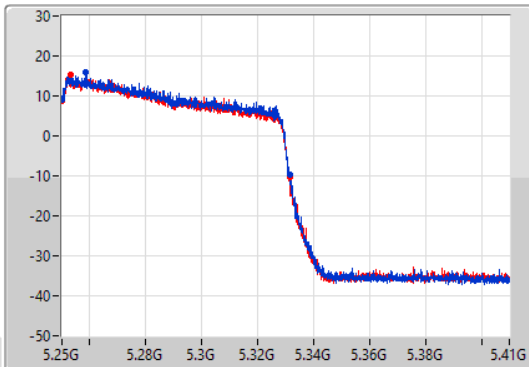
802.11ax HEW160_Nss1,(MCS0)_2TX

EBW

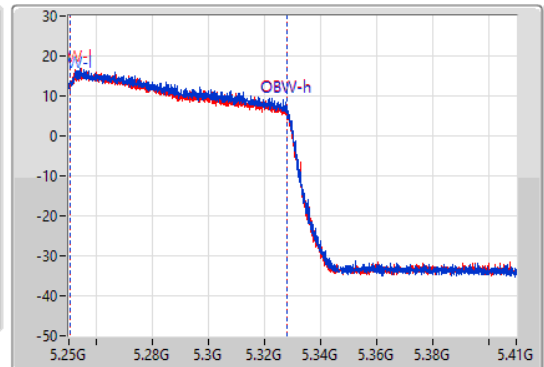
5250MHz Straddle 5.25-5.35GHz

04/08/2022

CF
5.33GHz
Span
160MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.33GHz
Span
160MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.44M	5.25G	5.33144G	77.721M	5.25036G	5.328081G	Inf	1
81.6M	5.25G	5.3316G	77.561M	5.25036G	5.327921G	Inf	2

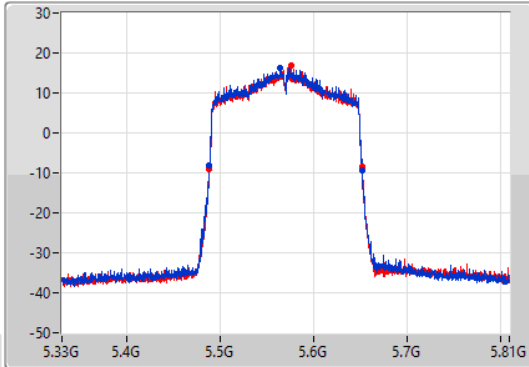
802.11ax HEW160_Nss1,(MCS0)_2TX

EBW

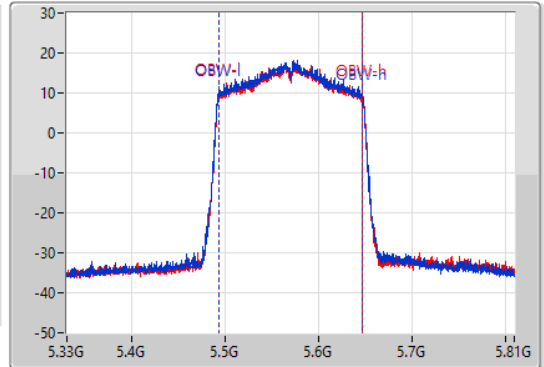
5570MHz

04/08/2022

CF
5.57GHz
Span
480MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.57GHz
Span
480MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



Port 1 
Port 2 

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
163.44M	5.4884G	5.65184G	154.483M	5.492519G	5.647001G	Inf	1
163.92M	5.48792G	5.65184G	154.483M	5.492759G	5.647241G	Inf	2



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	26.71	0.46881	31.51	1.41579
802.11ax HEW20_Nss1,(MCS0)_2TX	27.55	0.56885	32.35	1.71791
802.11ax HEW40_Nss1,(MCS0)_2TX	26.00	0.39811	30.80	1.20226
802.11ax HEW80_Nss1,(MCS0)_2TX	21.27	0.13397	26.07	0.40458
802.11ax HEW160_Nss1,(MCS0)_2TX	19.72	0.09376	24.52	0.28314
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.73	0.11830	25.53	0.35727
802.11ax HEW20_Nss1,(MCS0)_2TX	21.29	0.13459	26.09	0.40644
802.11ax HEW40_Nss1,(MCS0)_2TX	23.62	0.23014	28.42	0.69502
802.11ax HEW80_Nss1,(MCS0)_2TX	23.72	0.23550	28.52	0.71121
802.11ax HEW160_Nss1,(MCS0)_2TX	19.14	0.08204	23.94	0.24774
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.30	0.10715	25.10	0.32359
802.11ax HEW20_Nss1,(MCS0)_2TX	21.28	0.13428	26.08	0.40551
802.11ax HEW40_Nss1,(MCS0)_2TX	23.85	0.24266	28.65	0.73282
802.11ax HEW80_Nss1,(MCS0)_2TX	23.96	0.24889	28.76	0.75162
802.11ax HEW160_Nss1,(MCS0)_2TX	23.42	0.21979	28.22	0.66374
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	28.96	0.78705	33.76	2.37684
802.11ax HEW20_Nss1,(MCS0)_2TX	28.79	0.75683	33.59	2.28560
802.11ax HEW40_Nss1,(MCS0)_2TX	28.11	0.64714	32.91	1.95434
802.11ax HEW80_Nss1,(MCS0)_2TX	25.84	0.38371	30.64	1.15878



Average Power_Non-Beamforming

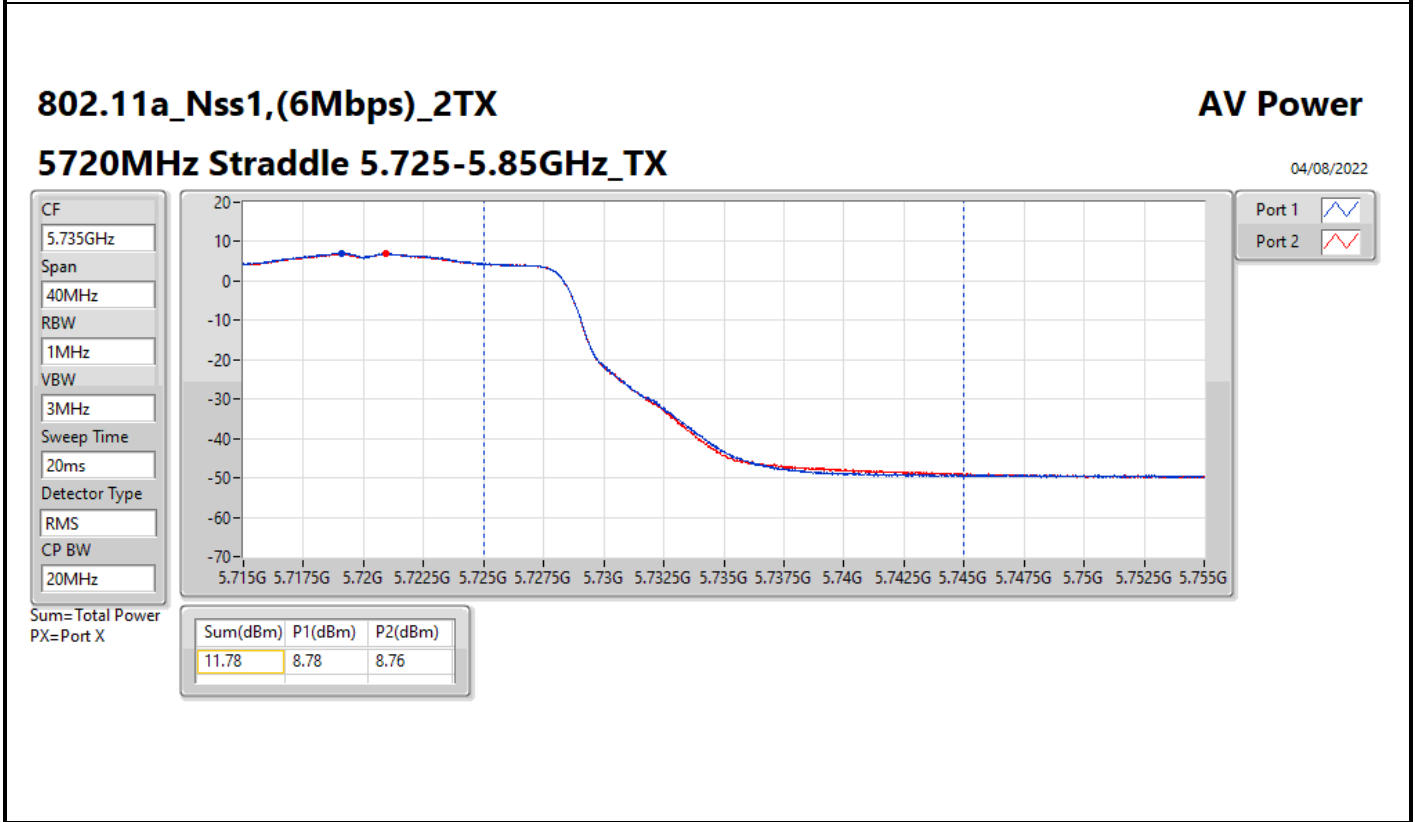
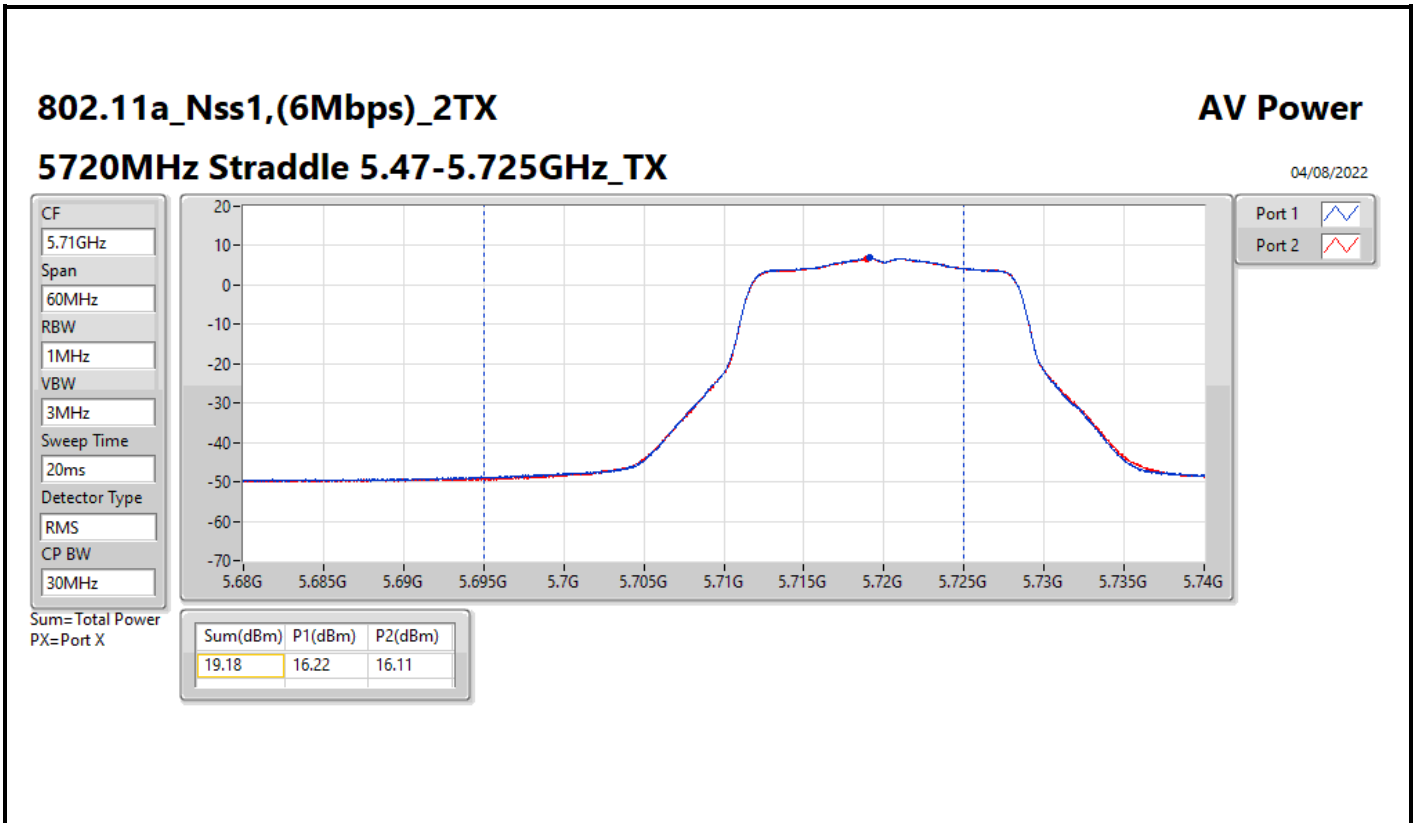
Appendix C.1

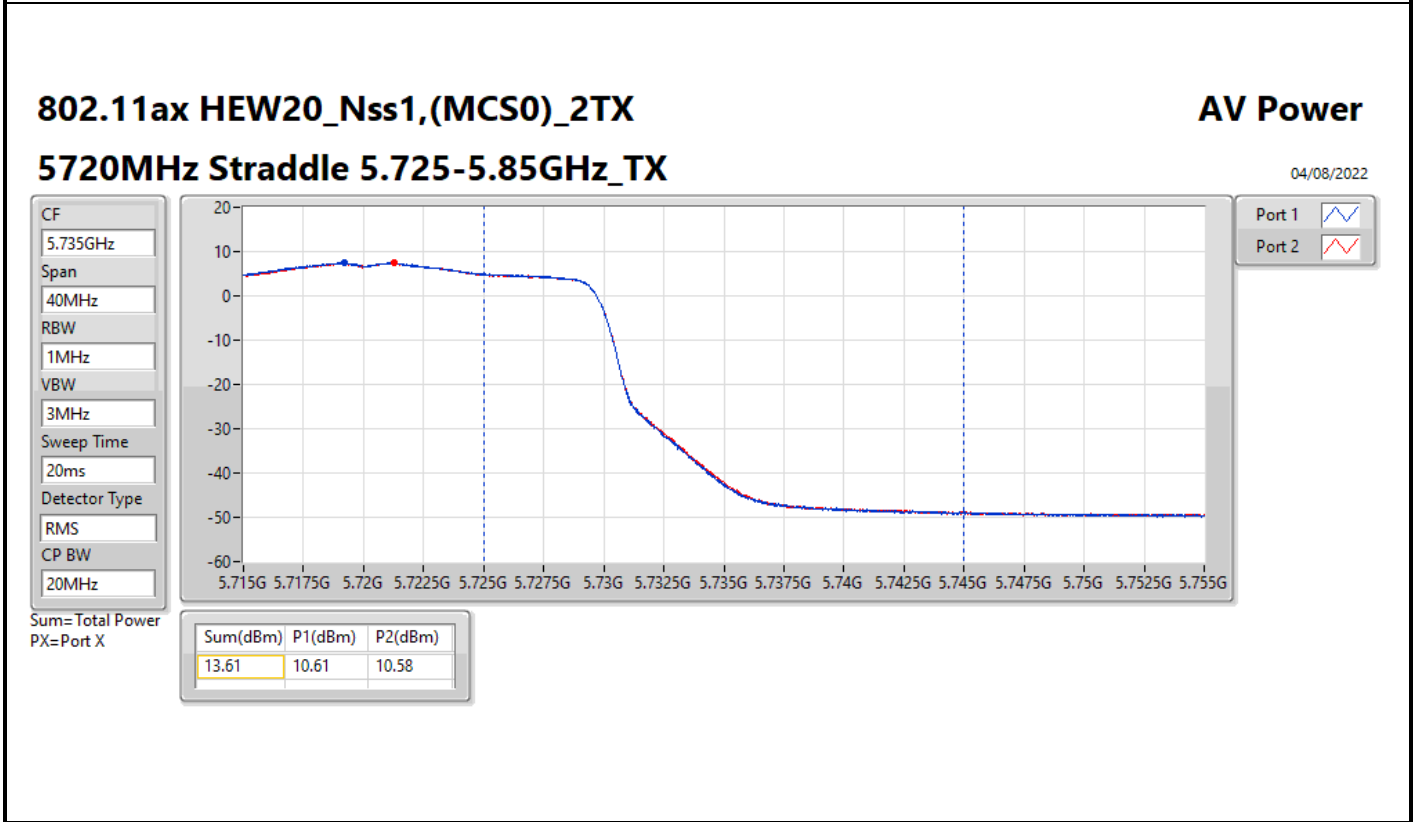
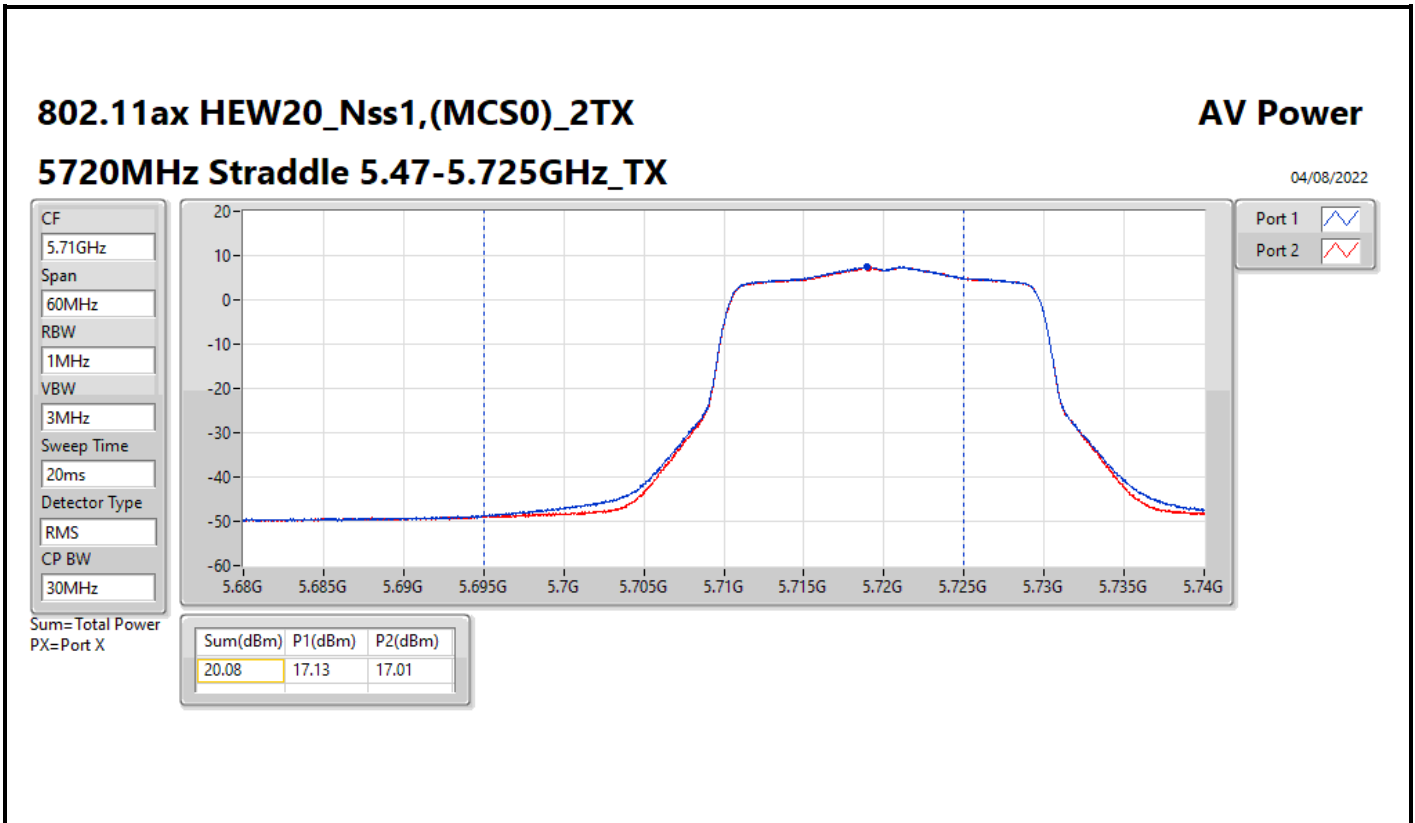
Result

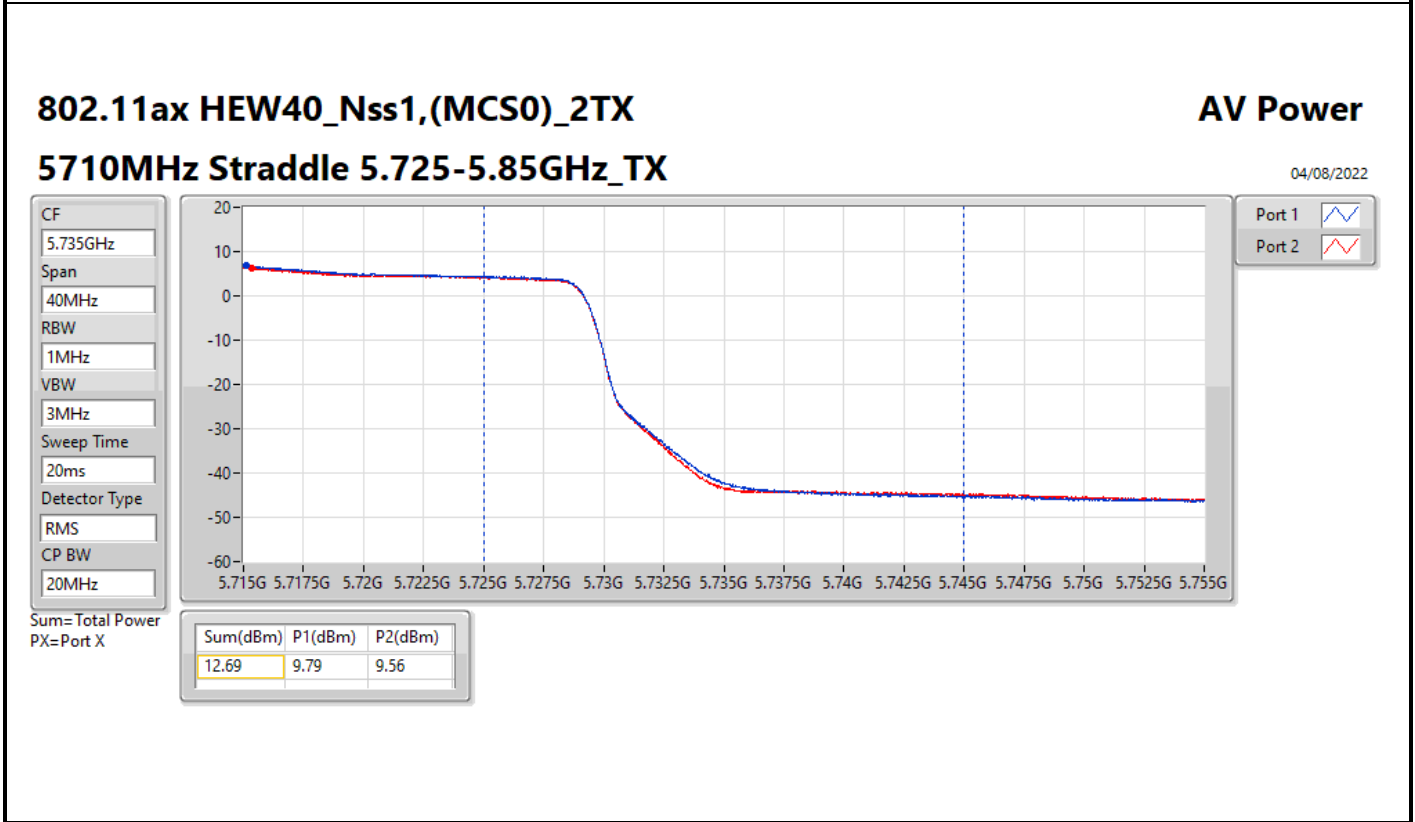
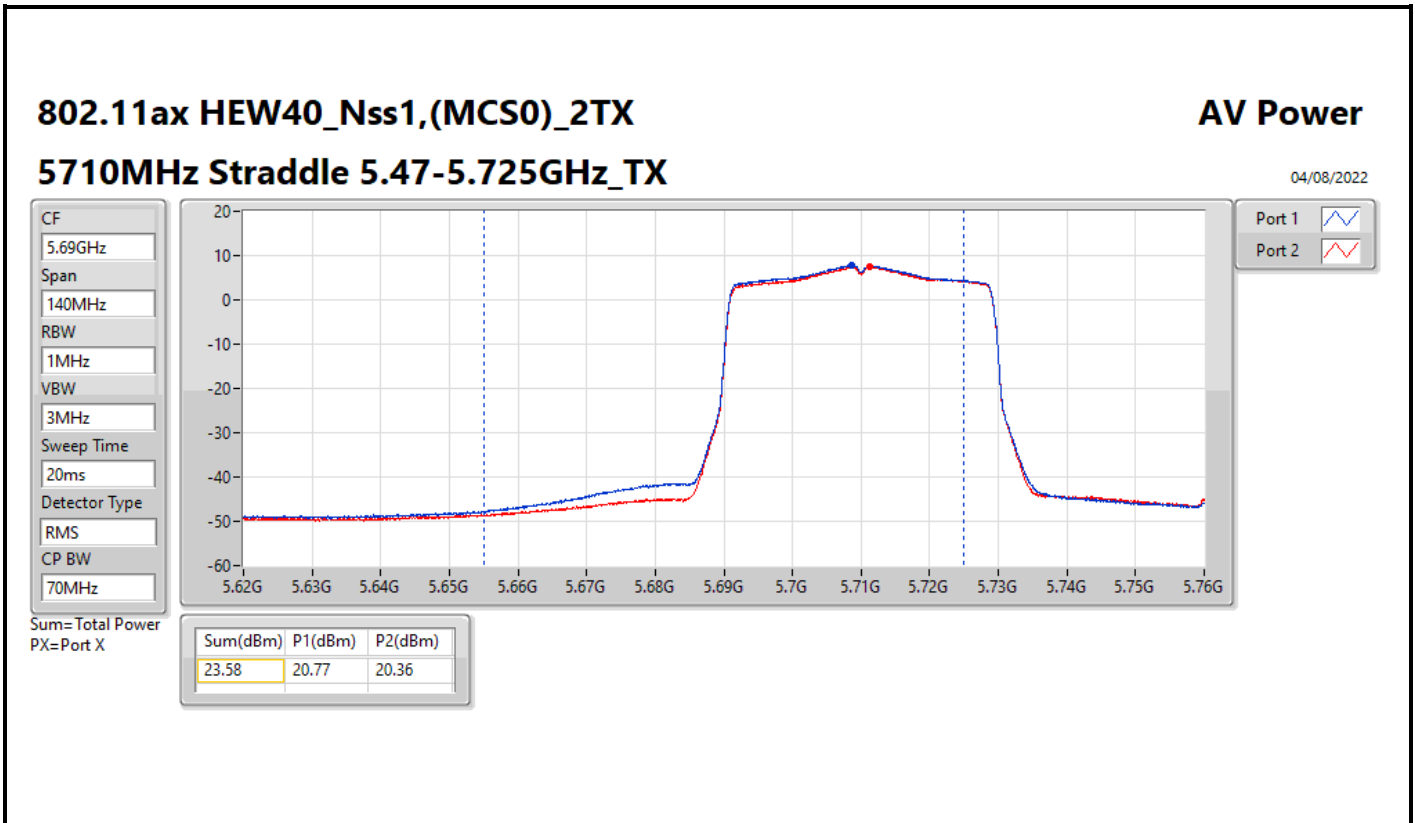
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.80	20.37	20.18	23.29	30.00	28.09	36.00
5200MHz	Pass	4.80	23.35	23.93	26.66	30.00	31.46	36.00
5240MHz	Pass	4.80	23.81	23.59	26.71	30.00	31.51	36.00
5260MHz	Pass	4.80	17.52	17.24	20.39	23.88	25.19	29.88
5300MHz	Pass	4.80	18.11	17.30	20.73	23.92	25.53	29.92
5320MHz	Pass	4.80	17.83	17.13	20.50	23.91	25.30	29.91
5500MHz	Pass	4.80	17.29	17.29	20.30	23.89	25.10	29.89
5580MHz	Pass	4.80	17.21	17.28	20.26	23.88	25.06	29.88
5700MHz	Pass	4.80	17.19	16.80	20.01	23.89	24.81	29.89
5720MHz Straddle 5.47-5.725GHz	Pass	4.80	16.22	16.11	19.18	22.60	23.98	28.60
5720MHz Straddle 5.725-5.85GHz	Pass	4.80	8.78	8.76	11.78	30.00	16.58	36.00
5745MHz	Pass	4.80	26.05	25.84	28.96	30.00	33.76	36.00
5785MHz	Pass	4.80	25.60	25.36	28.49	30.00	33.29	36.00
5825MHz	Pass	4.80	24.73	24.96	27.86	30.00	32.66	36.00
802.11ax HEW20_Nss1,(MCSO)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.80	21.32	21.23	24.29	30.00	29.09	36.00
5200MHz	Pass	4.80	23.23	23.77	26.52	30.00	31.32	36.00
5240MHz	Pass	4.80	24.63	24.45	27.55	30.00	32.35	36.00
5260MHz	Pass	4.80	18.40	18.16	21.29	23.98	26.09	30.00
5300MHz	Pass	4.80	18.08	17.05	20.61	23.98	25.41	30.00
5320MHz	Pass	4.80	18.20	17.46	20.86	23.98	25.66	30.00
5500MHz	Pass	4.80	18.48	18.05	21.28	23.98	26.08	30.00
5580MHz	Pass	4.80	18.12	18.18	21.16	23.98	25.96	30.00
5700MHz	Pass	4.80	18.34	17.80	21.09	23.98	25.89	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.80	17.13	17.01	20.08	22.83	24.88	28.83
5720MHz Straddle 5.725-5.85GHz	Pass	4.80	10.61	10.58	13.61	30.00	18.41	36.00
5745MHz	Pass	4.80	25.96	25.59	28.79	30.00	33.59	36.00
5785MHz	Pass	4.80	25.38	24.96	28.19	30.00	32.99	36.00
5825MHz	Pass	4.80	24.68	24.48	27.59	30.00	32.39	36.00
802.11ax HEW40_Nss1,(MCSO)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.80	19.58	19.66	22.63	30.00	27.43	36.00
5230MHz	Pass	4.80	23.03	22.94	26.00	30.00	30.80	36.00
5270MHz	Pass	4.80	20.71	20.50	23.62	23.98	28.42	30.00
5310MHz	Pass	4.80	20.95	19.89	23.46	23.98	28.26	30.00
5510MHz	Pass	4.80	19.05	18.59	21.84	23.98	26.64	30.00
5550MHz	Pass	4.80	20.83	20.54	23.70	23.98	28.50	30.00
5670MHz	Pass	4.80	21.27	20.36	23.85	23.98	28.65	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.80	20.77	20.36	23.58	23.98	28.38	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.80	9.79	9.56	12.69	30.00	17.49	36.00
5755MHz	Pass	4.80	25.23	24.97	28.11	30.00	32.91	36.00
5795MHz	Pass	4.80	25.09	24.74	27.93	30.00	32.73	36.00
802.11ax HEW80_Nss1,(MCSO)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.80	18.29	18.23	21.27	30.00	26.07	36.00
5290MHz	Pass	4.80	21.06	20.32	23.72	23.98	28.52	30.00
5530MHz	Pass	4.80	20.95	20.24	23.62	23.98	28.42	30.00
5610MHz	Pass	4.80	21.04	20.85	23.96	23.98	28.76	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.80	20.97	20.21	23.62	23.98	28.42	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.80	5.80	5.52	8.67	30.00	13.47	36.00
5775MHz	Pass	4.80	23.03	22.63	25.84	30.00	30.64	36.00
802.11ax HEW160_Nss1,(MCSO)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.80	16.78	16.63	19.72	30.00	24.52	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.80	16.33	15.93	19.14	23.98	23.94	30.00
5570MHz	Pass	4.80	20.61	20.21	23.42	23.98	28.22	30.00

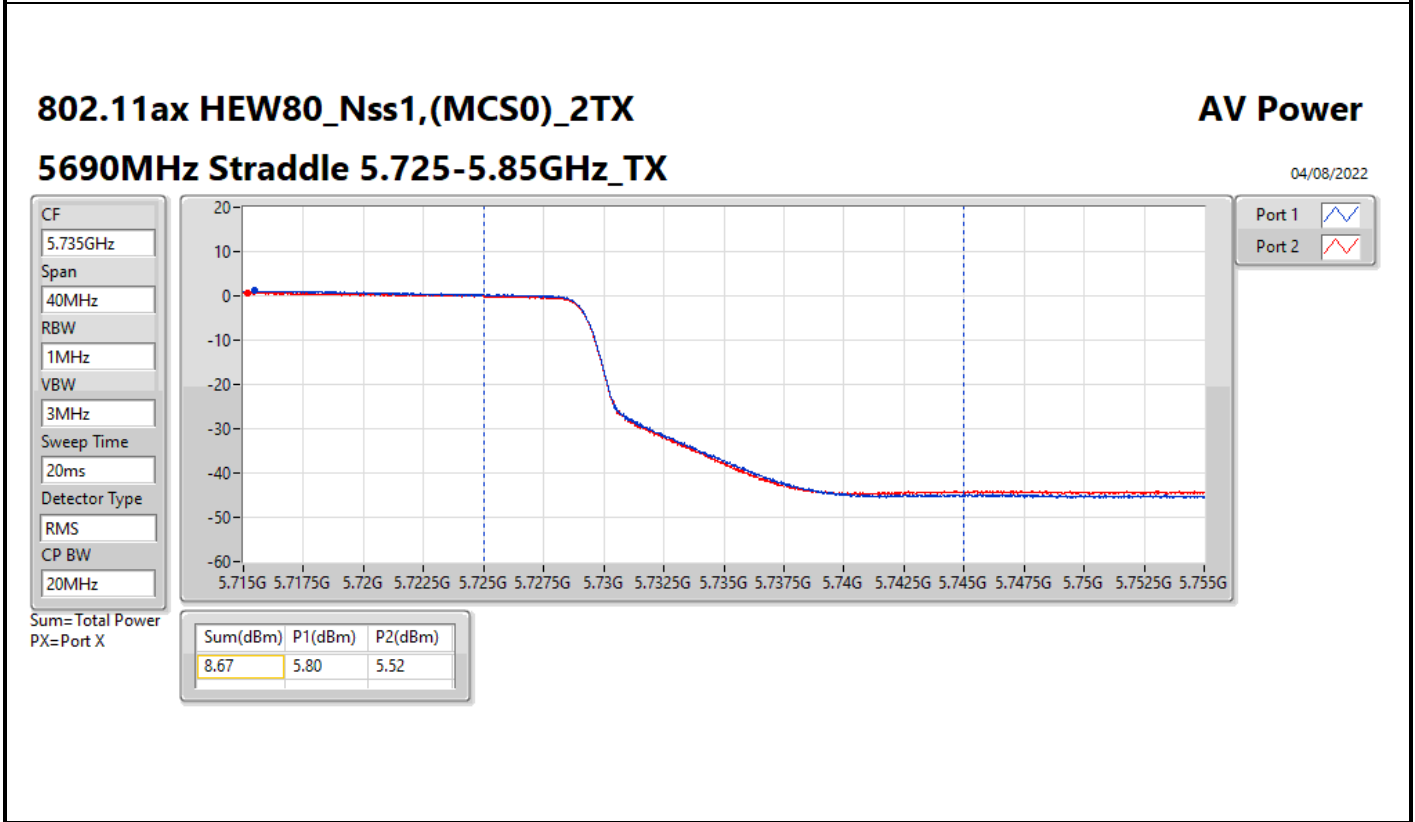
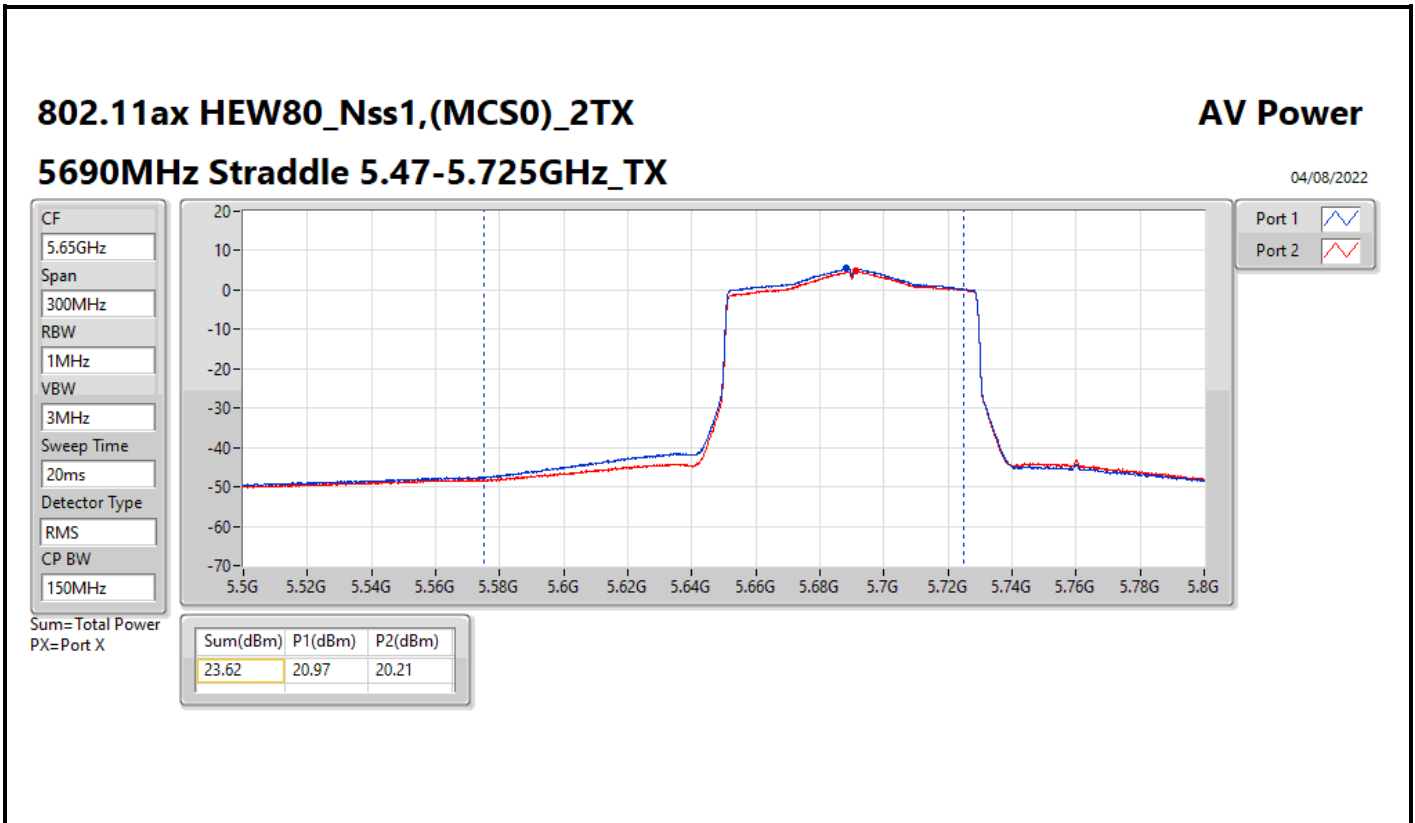


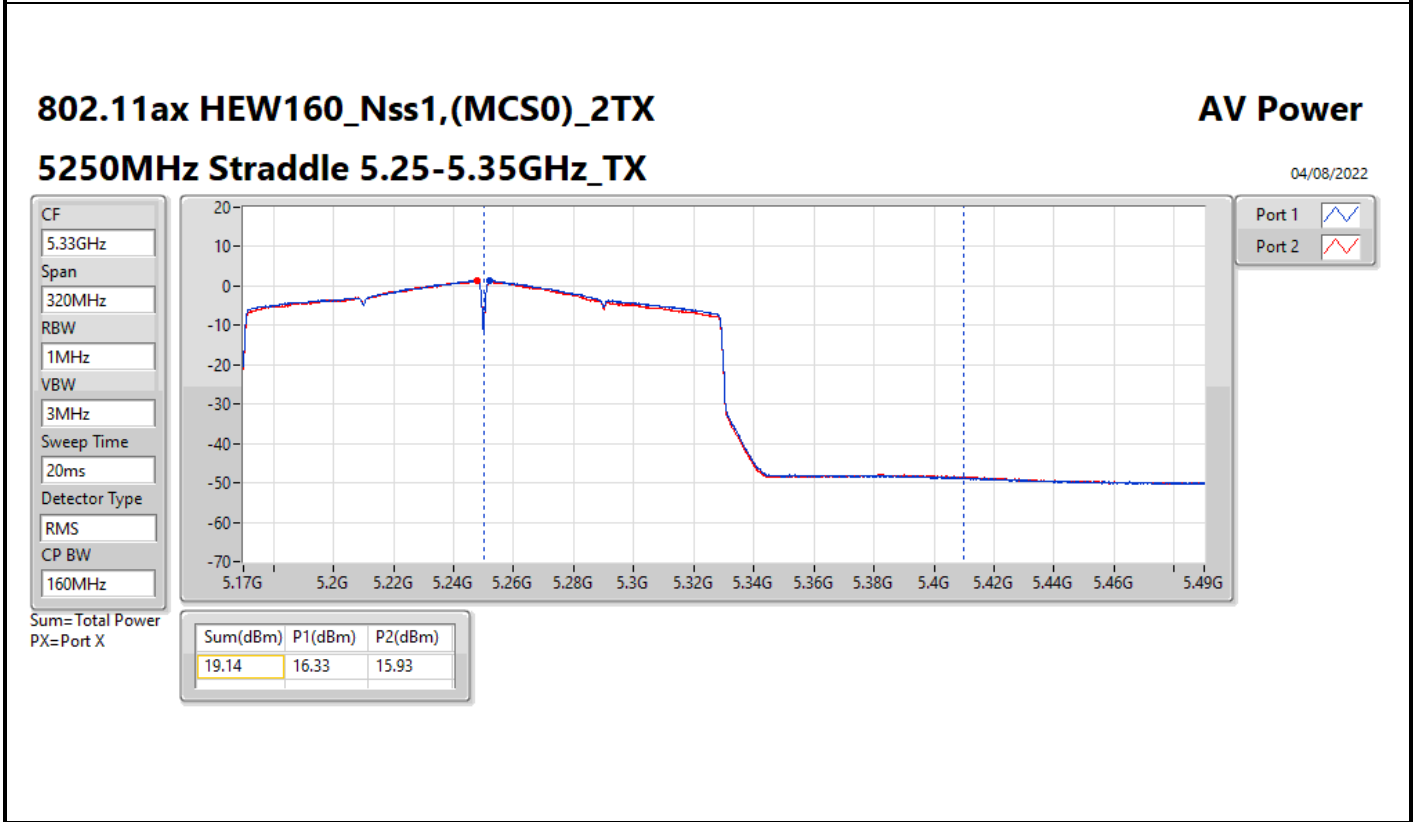
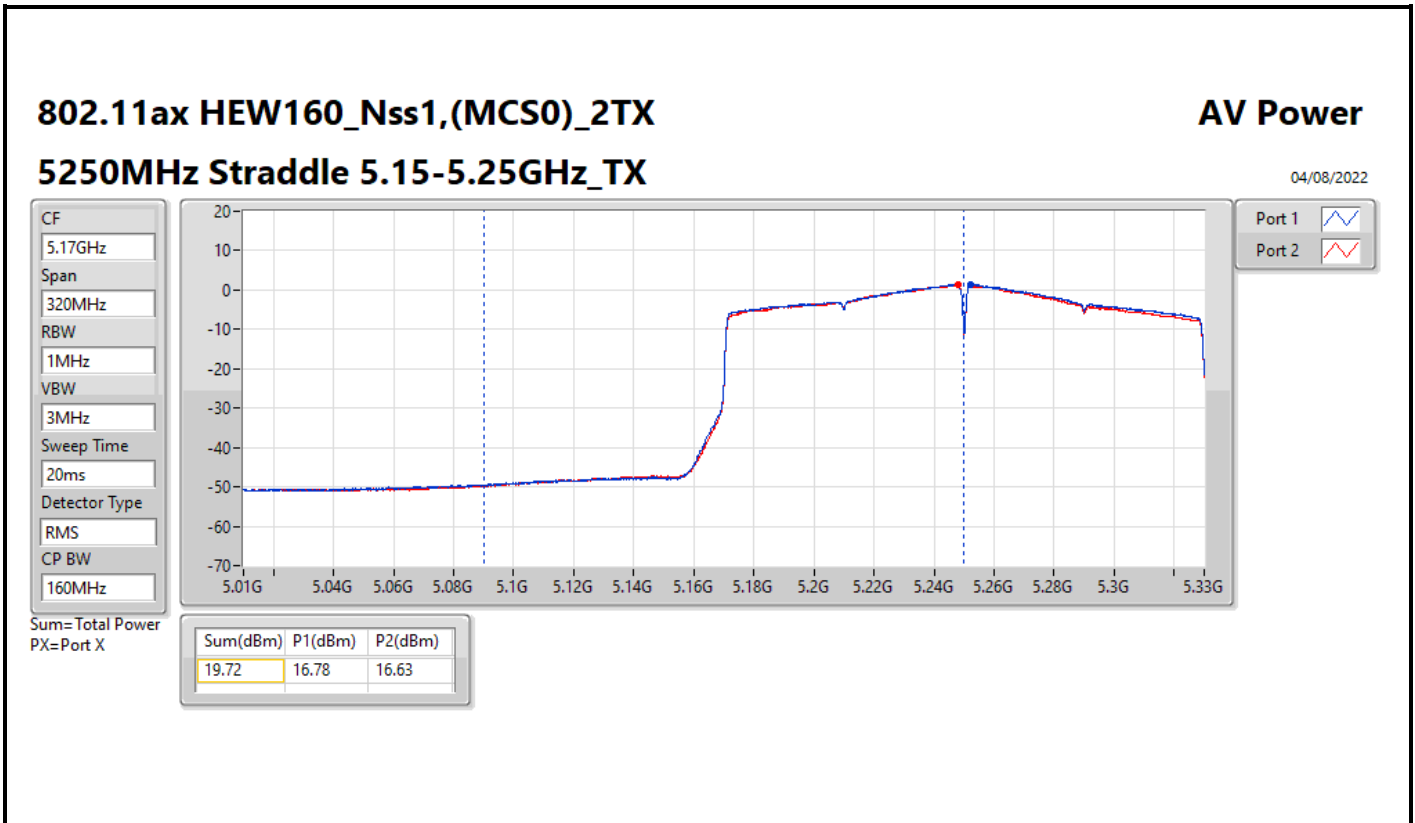
DG = Directional Gain; Port X = Port X output power

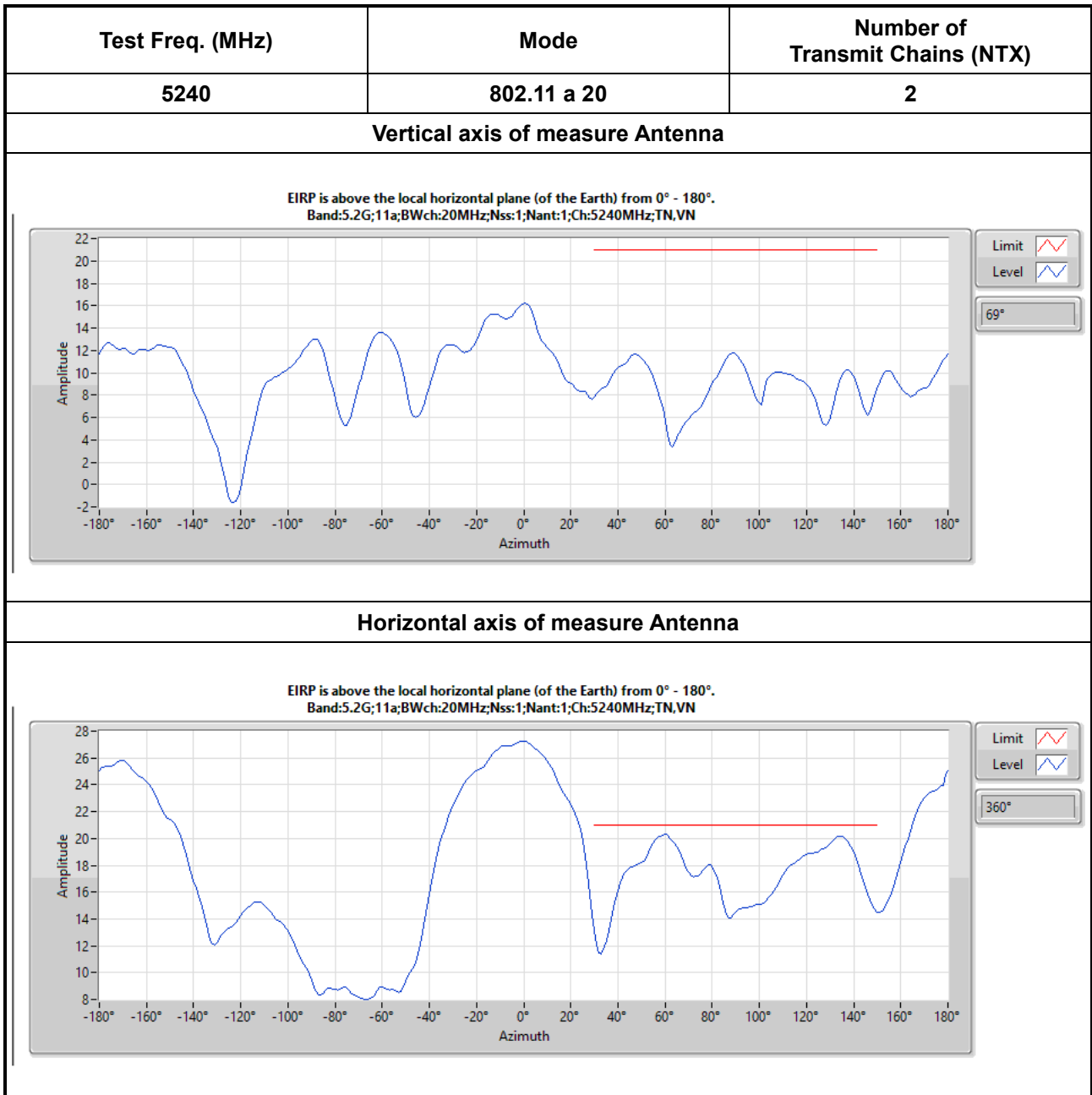












Note: The red line is EIRP limit (21dBm) for 30 ~ 150 degree.



Summary

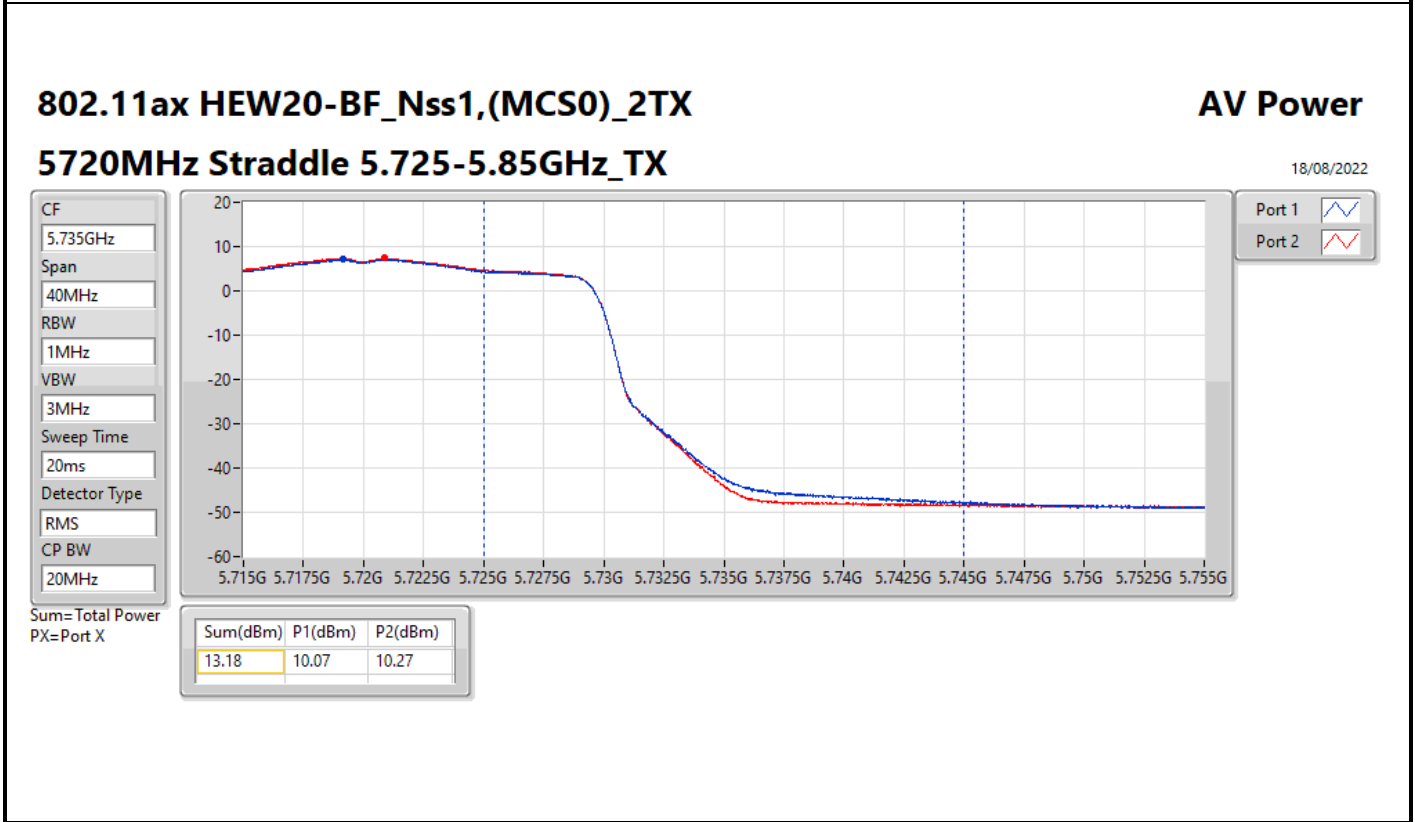
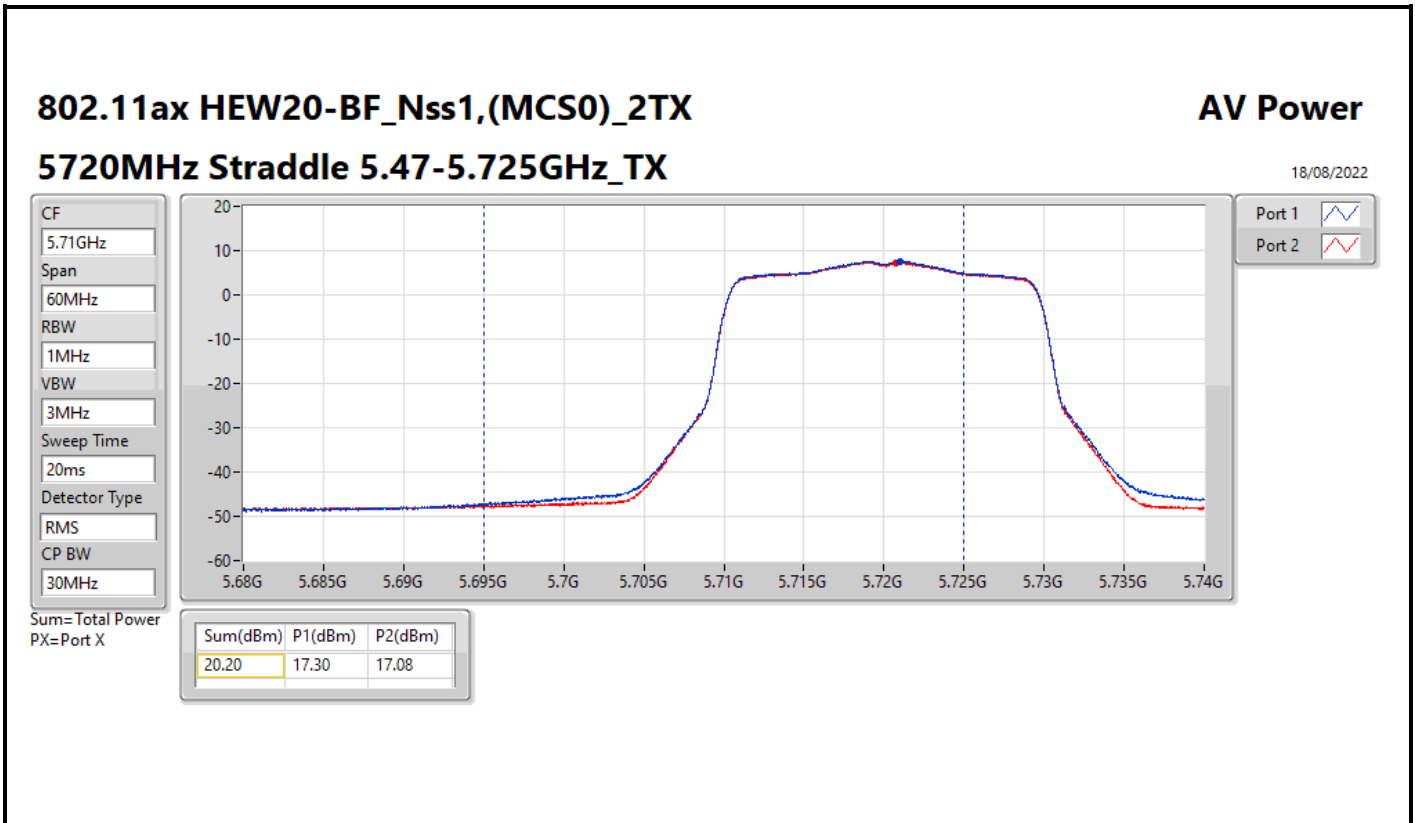
Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	27.51	0.56364	35.15	3.27341
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.93	0.39174	33.57	2.27510
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	21.26	0.13366	28.90	0.77625
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	19.07	0.08072	26.71	0.46881
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.20	0.13183	28.84	0.76560
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	21.63	0.14555	29.27	0.84528
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	21.71	0.14825	29.35	0.86099
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	18.26	0.06699	25.90	0.38905
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.27	0.13397	28.91	0.77804
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	21.79	0.15101	29.43	0.87700
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	21.62	0.14521	29.26	0.84333
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	21.63	0.14555	29.27	0.84528
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	27.80	0.60256	35.44	3.49945
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	27.76	0.59704	35.40	3.46737
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	25.77	0.37757	33.41	2.19280

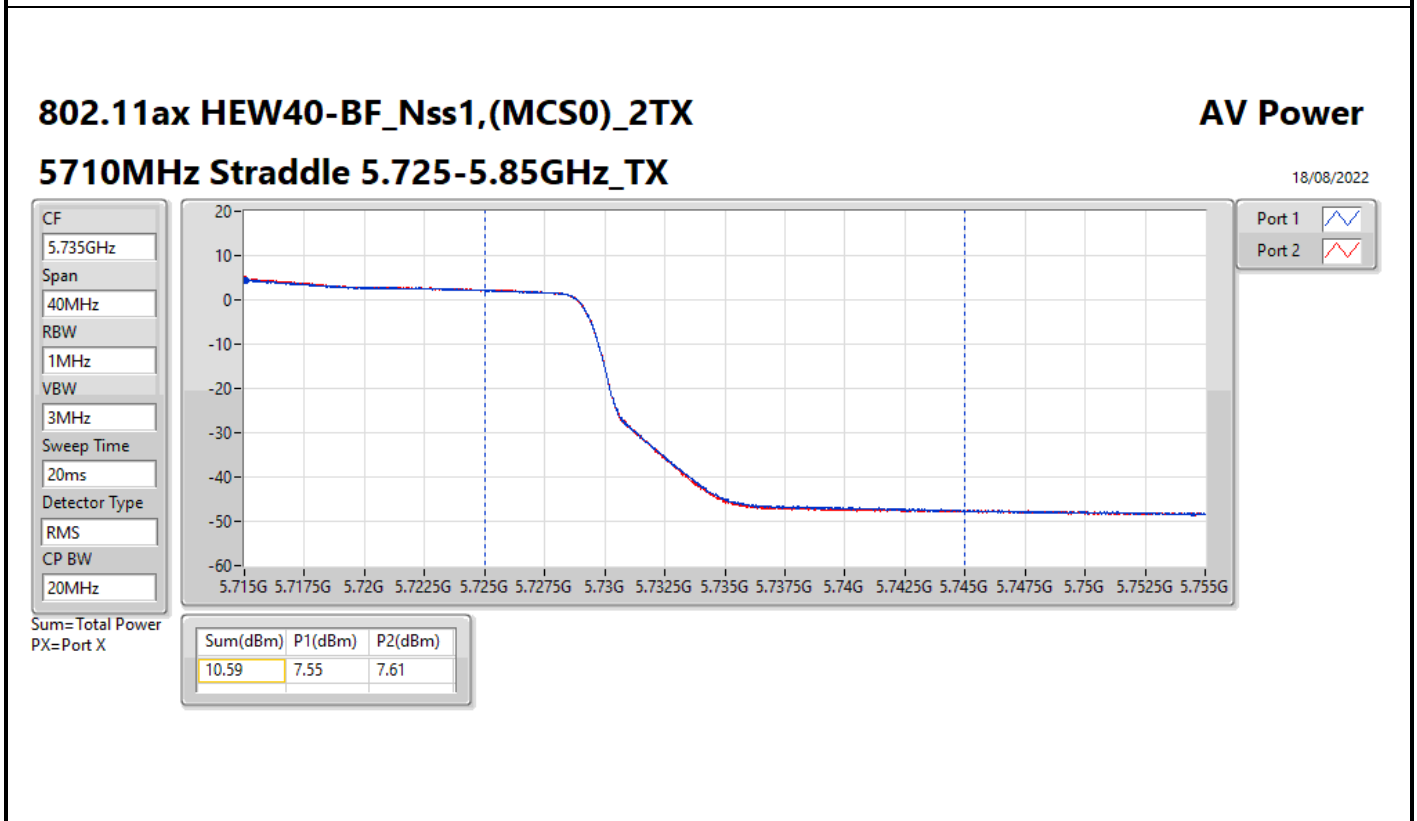
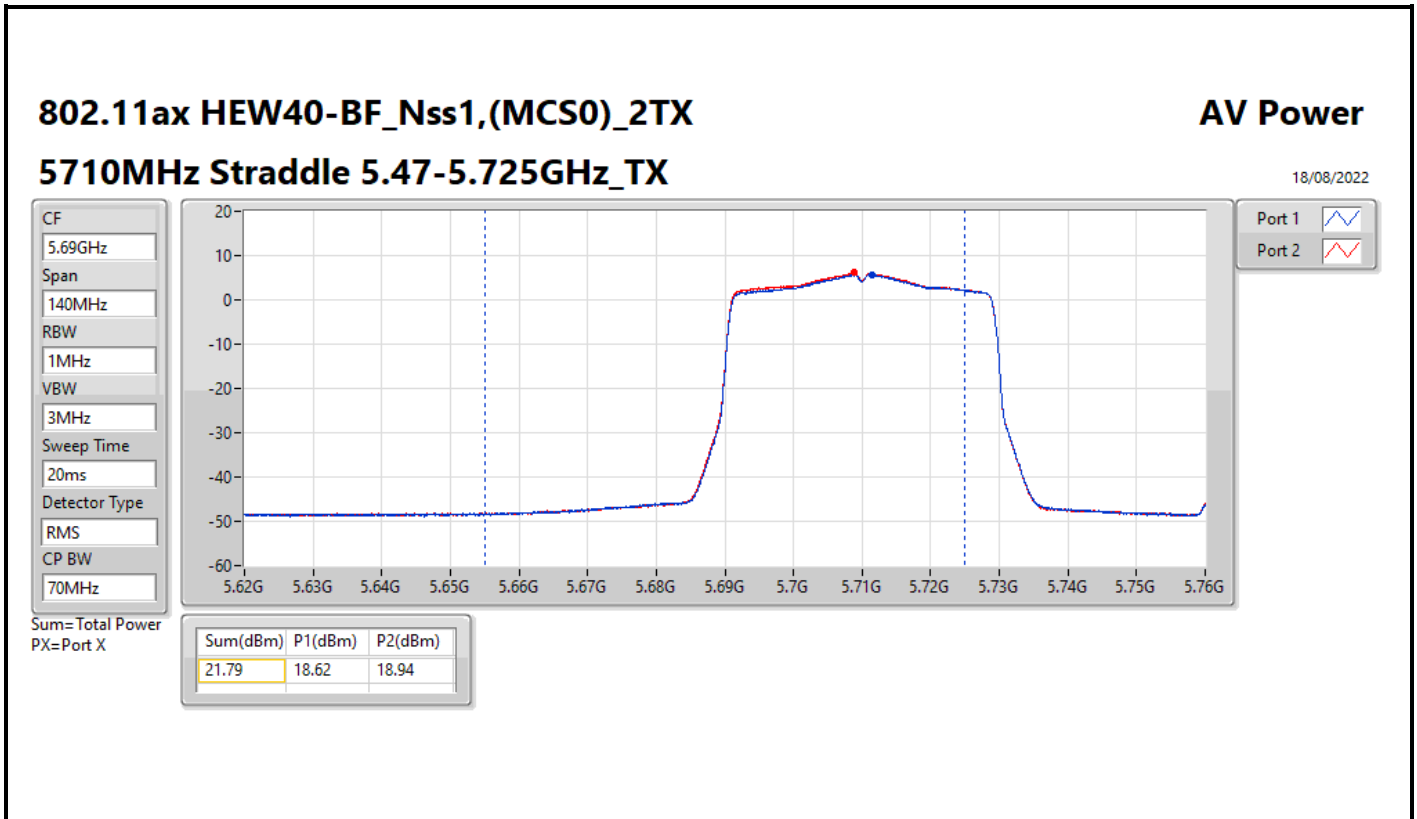


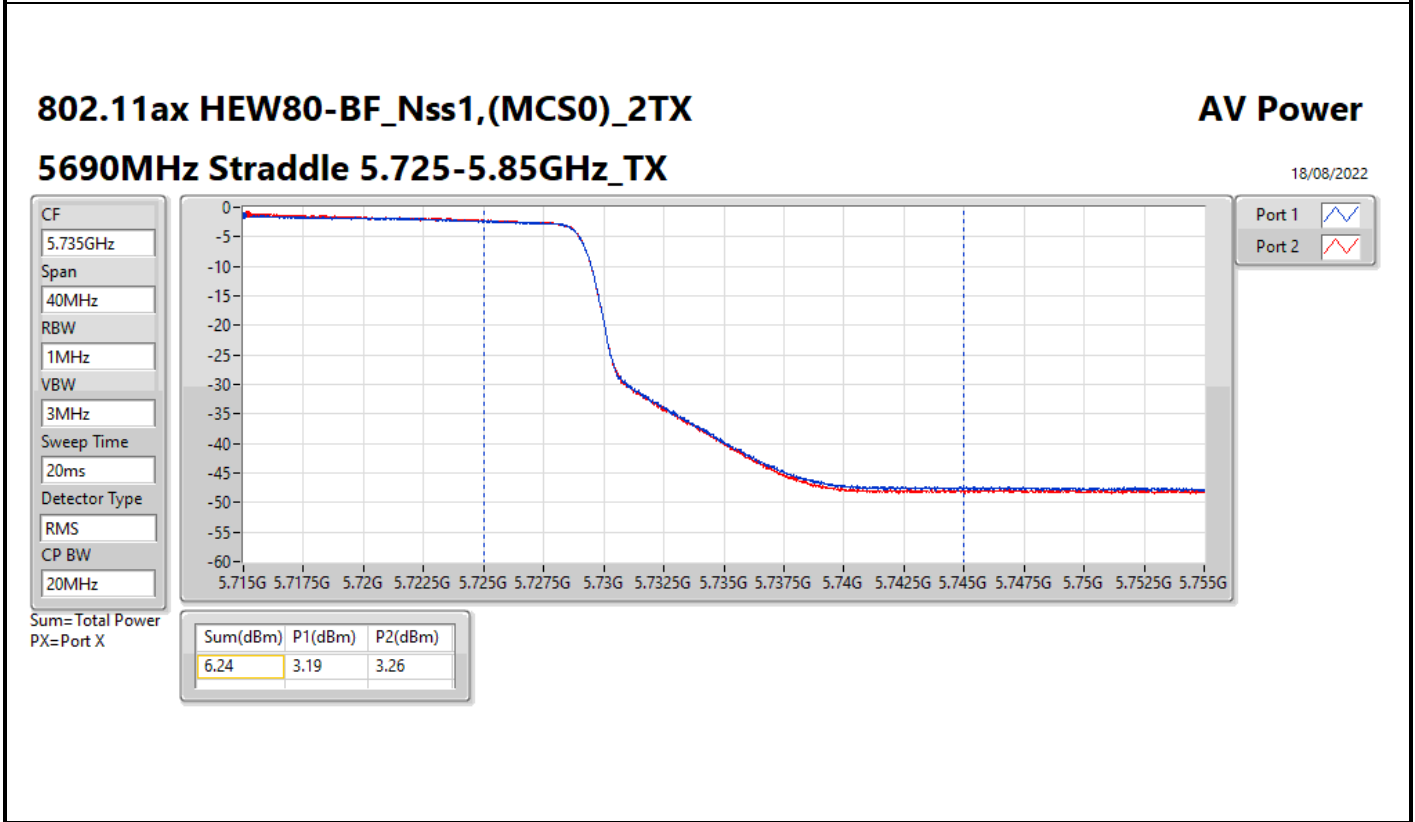
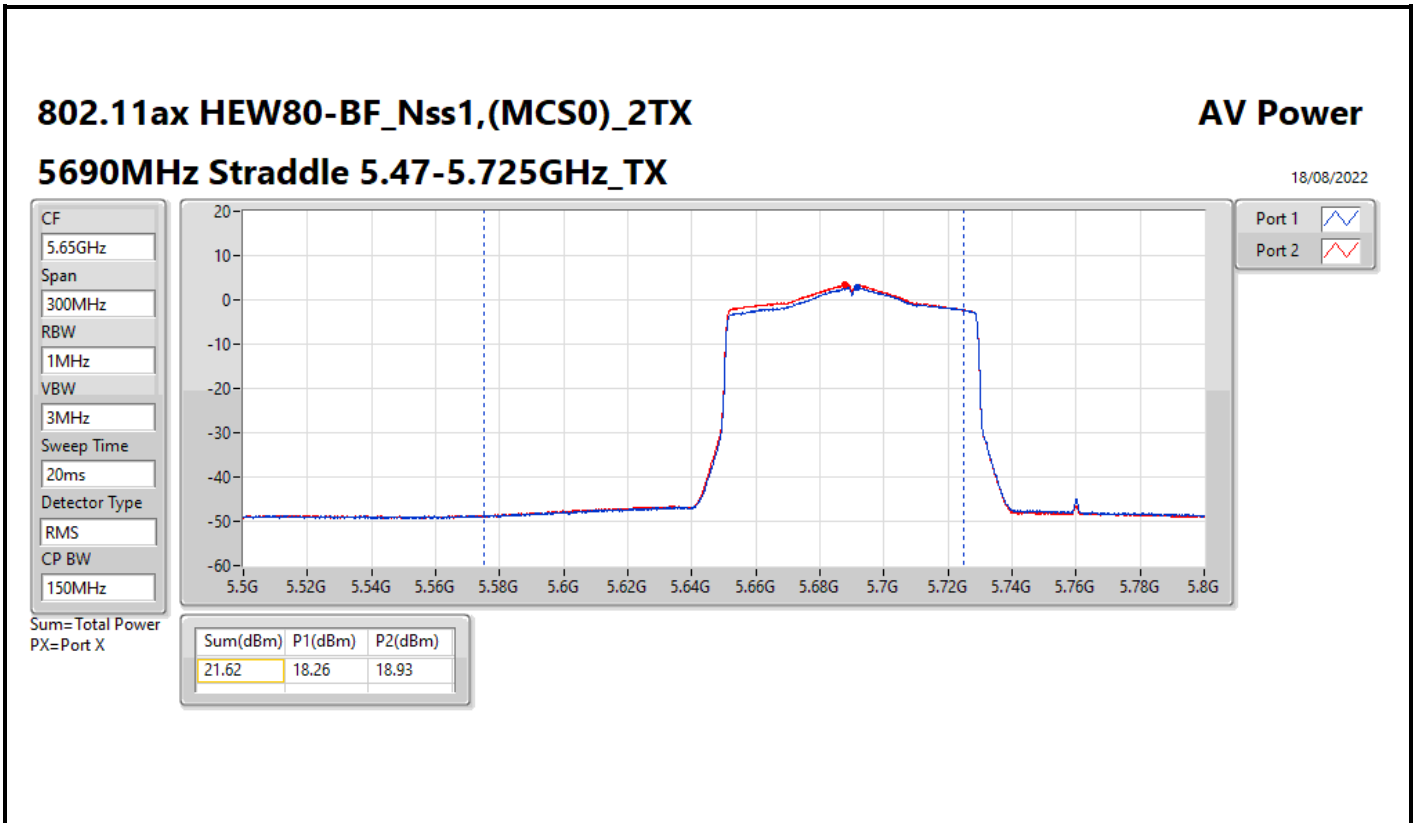
Result

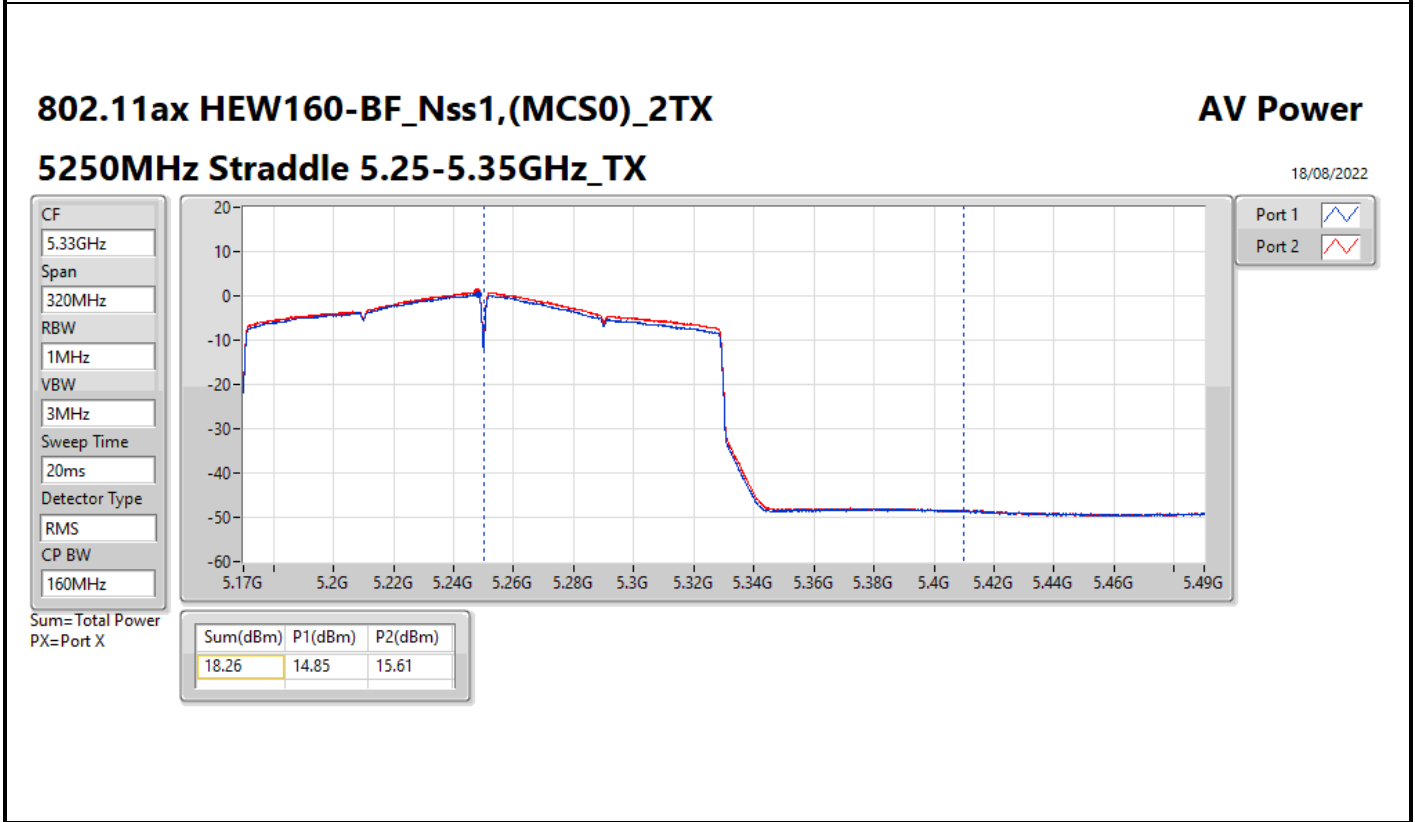
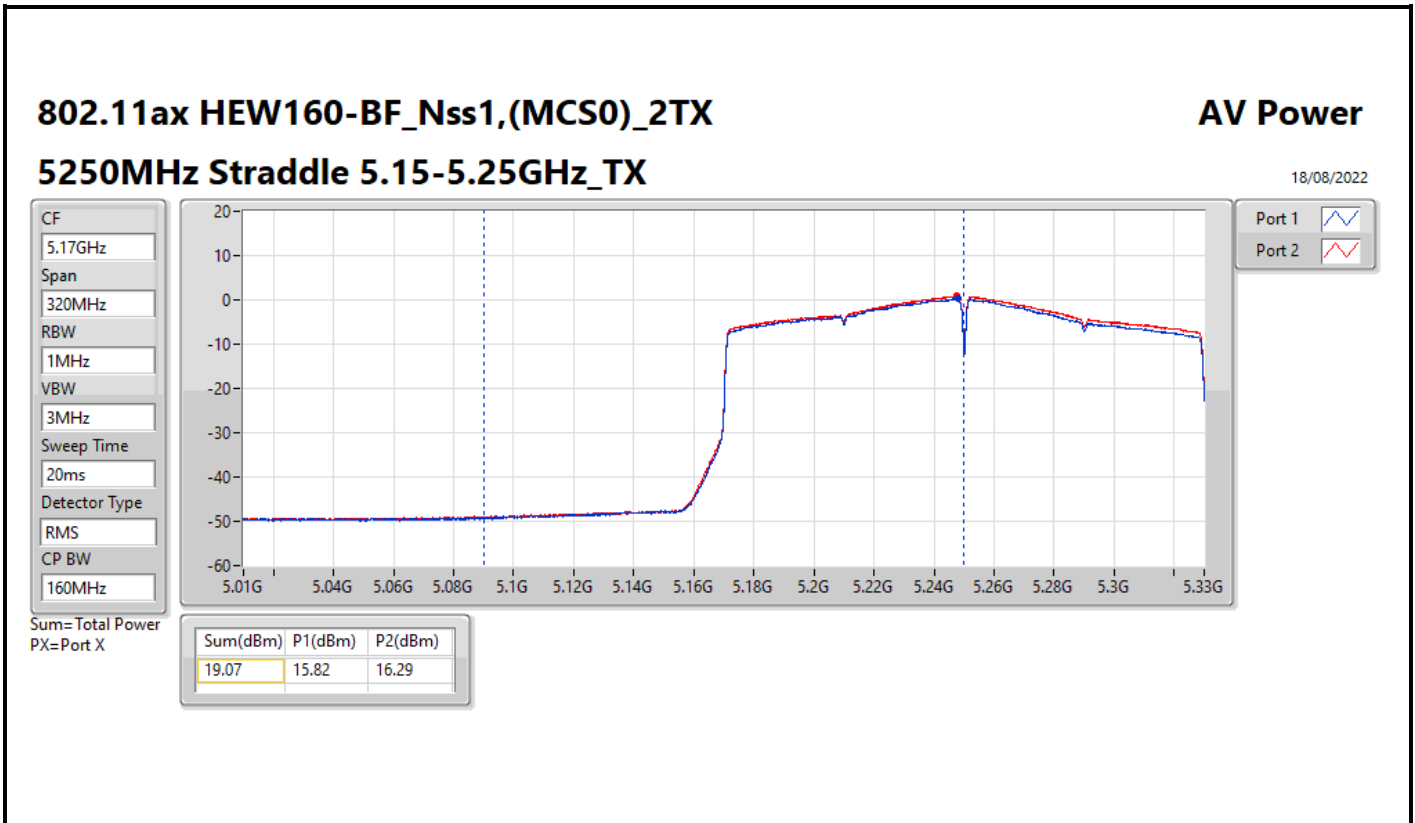
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.64	21.30	21.21	24.27	28.36	31.91	36.00
5200MHz	Pass	7.64	23.17	23.71	26.46	28.36	34.10	36.00
5240MHz	Pass	7.64	24.59	24.41	27.51	28.36	35.15	36.00
5260MHz	Pass	7.64	18.31	18.07	21.20	22.34	28.84	30.00
5300MHz	Pass	7.64	18.01	16.98	20.54	22.34	28.18	30.00
5320MHz	Pass	7.64	18.12	17.38	20.78	22.34	28.42	30.00
5500MHz	Pass	7.64	18.47	18.04	21.27	22.34	28.91	30.00
5580MHz	Pass	7.64	18.11	18.17	21.15	22.34	28.79	30.00
5700MHz	Pass	7.64	18.27	17.73	21.02	22.34	28.66	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.64	17.30	17.08	20.20	21.19	27.84	28.83
5720MHz Straddle 5.725-5.85GHz	Pass	7.64	10.07	10.27	13.18	28.36	20.82	36.00
5745MHz	Pass	7.64	24.56	24.35	27.47	28.36	35.11	36.00
5785MHz	Pass	7.64	24.68	24.90	27.80	28.36	35.44	36.00
5825MHz	Pass	7.64	24.67	24.47	27.58	28.36	35.22	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.64	19.54	19.62	22.59	28.36	30.23	36.00
5230MHz	Pass	7.64	22.96	22.87	25.93	28.36	33.57	36.00
5270MHz	Pass	7.64	18.54	18.62	21.59	22.34	29.23	30.00
5310MHz	Pass	7.64	18.57	18.66	21.63	22.34	29.27	30.00
5510MHz	Pass	7.64	18.97	18.51	21.76	22.34	29.40	30.00
5550MHz	Pass	7.64	18.69	18.42	21.57	22.34	29.21	30.00
5670MHz	Pass	7.64	18.84	18.68	21.77	22.34	29.41	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.64	18.62	18.94	21.79	22.34	29.43	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.64	7.55	7.61	10.59	28.36	18.23	36.00
5755MHz	Pass	7.64	24.82	24.67	27.76	28.36	35.40	36.00
5795MHz	Pass	7.64	24.67	24.52	27.61	28.36	35.25	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.64	18.28	18.22	21.26	28.36	28.90	36.00
5290MHz	Pass	7.64	18.68	18.72	21.71	22.34	29.35	30.00
5530MHz	Pass	7.64	18.57	18.59	21.59	22.34	29.23	30.00
5610MHz	Pass	7.64	18.42	18.39	21.42	22.34	29.06	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.64	18.26	18.93	21.62	22.34	29.26	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.64	3.19	3.26	6.24	28.36	13.88	36.00
5775MHz	Pass	7.64	22.96	22.56	25.77	28.36	33.41	36.00
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.64	15.82	16.29	19.07	28.36	26.71	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	7.64	14.85	15.61	18.26	22.34	25.90	30.00
5570MHz	Pass	7.64	18.56	18.67	21.63	22.34	29.27	30.00

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











Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	14.96	22.60
802.11ax HEW20_Nss1,(MCS0)_2TX	15.18	22.82
802.11ax HEW40_Nss1,(MCS0)_2TX	11.12	18.76
802.11ax HEW80_Nss1,(MCS0)_2TX	4.06	11.70
802.11ax HEW160_Nss1,(MCS0)_2TX	2.90	10.54
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.14	16.78
802.11ax HEW20_Nss1,(MCS0)_2TX	9.08	16.72
802.11ax HEW40_Nss1,(MCS0)_2TX	8.62	16.26
802.11ax HEW80_Nss1,(MCS0)_2TX	6.59	14.23
802.11ax HEW160_Nss1,(MCS0)_2TX	2.84	10.48
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.84	16.48
802.11ax HEW20_Nss1,(MCS0)_2TX	9.22	16.86
802.11ax HEW40_Nss1,(MCS0)_2TX	9.19	16.83
802.11ax HEW80_Nss1,(MCS0)_2TX	6.93	14.57
802.11ax HEW160_Nss1,(MCS0)_2TX	3.80	11.44
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	15.54	23.18
802.11ax HEW20_Nss1,(MCS0)_2TX	14.84	22.48
802.11ax HEW40_Nss1,(MCS0)_2TX	11.64	19.28
802.11ax HEW80_Nss1,(MCS0)_2TX	7.16	14.80

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.64	8.68	8.73	11.70	15.36	19.34	23.00
5200MHz	Pass	7.64	11.60	12.14	14.88	15.36	22.52	23.00
5240MHz	Pass	7.64	12.08	11.82	14.96	15.36	22.60	23.00
5260MHz	Pass	7.64	5.88	5.62	8.76	9.36	16.40	17.00
5300MHz	Pass	7.64	6.58	5.72	9.14	9.36	16.78	17.00
5320MHz	Pass	7.64	6.33	5.43	8.86	9.36	16.50	17.00
5500MHz	Pass	7.64	5.83	5.63	8.72	9.36	16.36	17.00
5580MHz	Pass	7.64	5.94	5.82	8.84	9.36	16.48	17.00
5700MHz	Pass	7.64	5.64	5.19	8.35	9.36	15.99	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.64	5.50	5.40	8.42	9.36	16.06	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.64	1.37	1.31	4.34	28.36	11.98	36.00
5745MHz	Pass	7.64	12.71	12.54	15.54	28.36	23.18	36.00
5785MHz	Pass	7.64	12.25	12.11	15.12	28.36	22.76	36.00
5825MHz	Pass	7.64	11.46	11.65	14.54	28.36	22.18	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.64	8.98	8.97	11.96	15.36	19.60	23.00
5200MHz	Pass	7.64	10.85	11.49	14.19	15.36	21.83	23.00
5240MHz	Pass	7.64	12.20	12.27	15.18	15.36	22.82	23.00
5260MHz	Pass	7.64	6.18	6.06	9.08	9.36	16.72	17.00
5300MHz	Pass	7.64	5.88	5.06	8.48	9.36	16.12	17.00
5320MHz	Pass	7.64	6.04	5.27	8.64	9.36	16.28	17.00
5500MHz	Pass	7.64	6.37	6.03	9.18	9.36	16.82	17.00
5580MHz	Pass	7.64	6.26	6.18	9.22	9.36	16.86	17.00
5700MHz	Pass	7.64	6.16	5.65	8.92	9.36	16.56	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.64	5.99	5.91	8.95	9.36	16.59	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.64	1.85	1.69	4.73	28.36	12.37	36.00
5745MHz	Pass	7.64	12.11	11.60	14.84	28.36	22.48	36.00
5785MHz	Pass	7.64	11.58	11.12	14.32	28.36	21.96	36.00
5825MHz	Pass	7.64	10.72	10.68	13.67	28.36	21.31	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.64	4.58	4.95	7.77	15.36	15.41	23.00
5230MHz	Pass	7.64	8.08	8.25	11.12	15.36	18.76	23.00
5270MHz	Pass	7.64	5.74	5.53	8.62	9.36	16.26	17.00
5310MHz	Pass	7.64	6.05	4.94	8.51	9.36	16.15	17.00
5510MHz	Pass	7.64	4.19	3.75	6.96	9.36	14.60	17.00
5550MHz	Pass	7.64	6.13	5.87	8.96	9.36	16.60	17.00
5670MHz	Pass	7.64	6.37	5.55	8.96	9.36	16.60	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.64	6.37	5.99	9.19	9.36	16.83	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.64	1.29	1.18	4.20	28.36	11.84	36.00
5755MHz	Pass	7.64	8.77	8.56	11.64	28.36	19.28	36.00
5795MHz	Pass	7.64	8.60	8.34	11.48	28.36	19.12	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.64	0.90	1.35	4.06	15.36	11.70	23.00
5290MHz	Pass	7.64	3.94	3.28	6.59	9.36	14.23	17.00
5530MHz	Pass	7.64	3.75	3.22	6.48	9.36	14.12	17.00
5610MHz	Pass	7.64	3.99	3.84	6.93	9.36	14.57	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.64	3.94	3.32	6.62	9.36	14.26	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.64	-2.72	-3.06	0.11	28.36	7.75	36.00
5775MHz	Pass	7.64	4.29	4.11	7.16	28.36	14.80	36.00



PSD_Non-Beamforming

Appendix D

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.64	-0.09	-0.05	2.90	15.36	10.54	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	7.64	-0.04	-0.22	2.84	9.36	10.48	17.00
5570MHz	Pass	7.64	1.01	0.55	3.80	9.36	11.44	17.00

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

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

04/08/2022

CF
5.18GHz

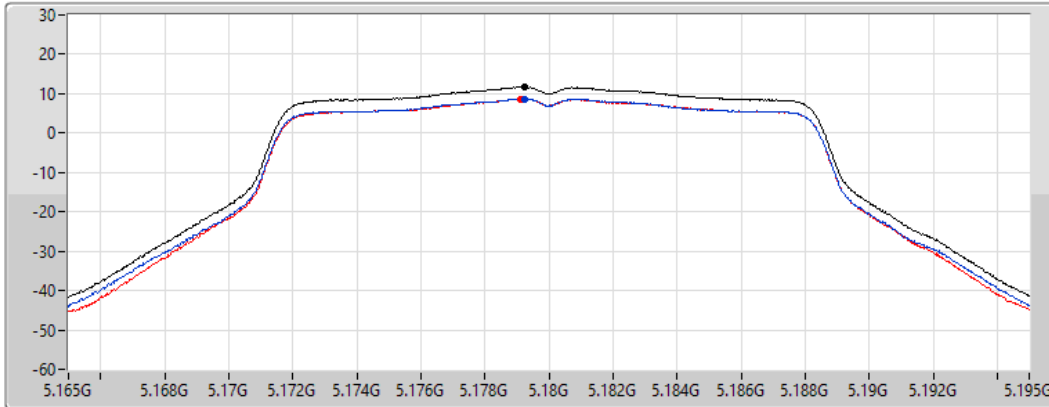
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.70	11.70	8.68	8.73

802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

04/08/2022

CF
5.2GHz

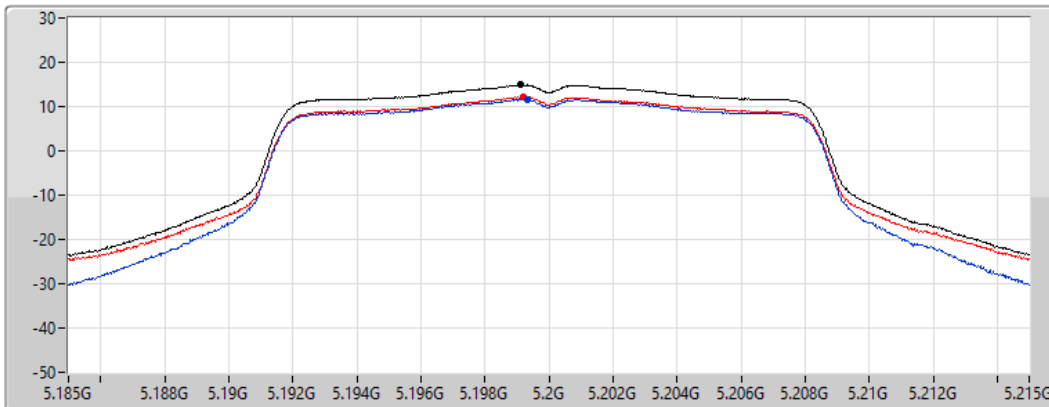
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.88	14.88	11.60	12.14

802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

04/08/2022

CF
5.24GHz

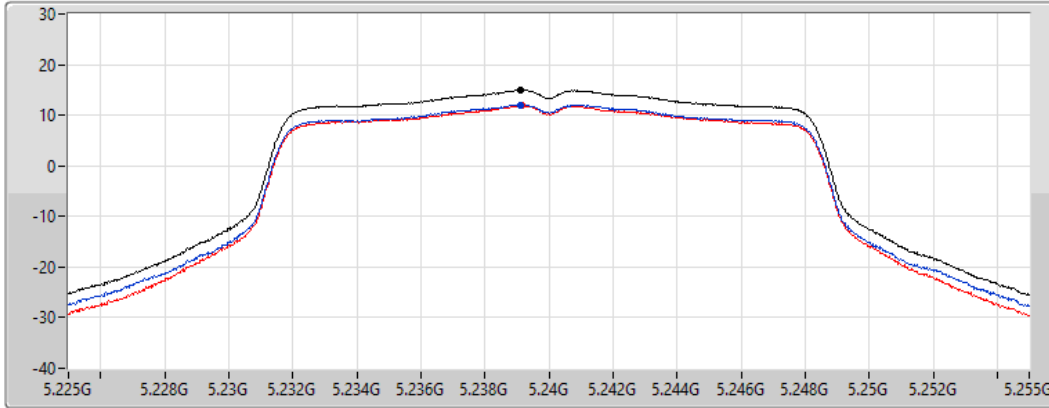
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.96	14.96	12.08	11.82

802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz

04/08/2022

CF
5.26GHz

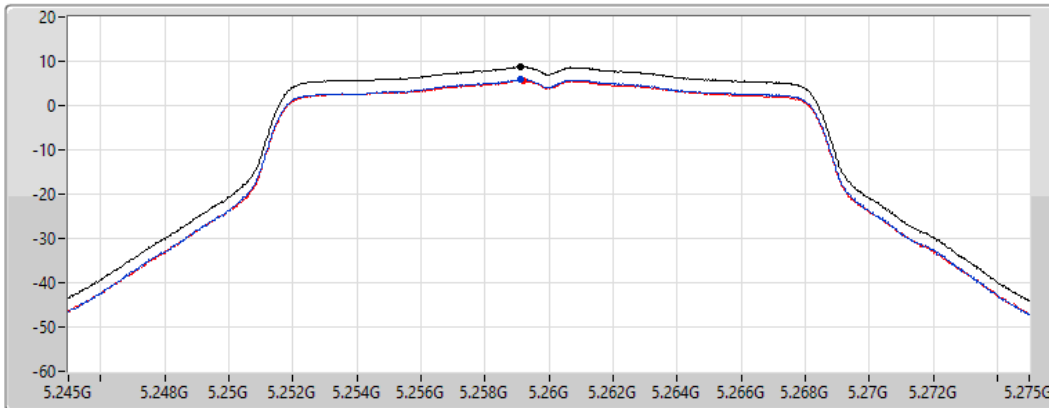
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.76	8.76	5.88	5.62

802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

04/08/2022

CF
5.3GHz

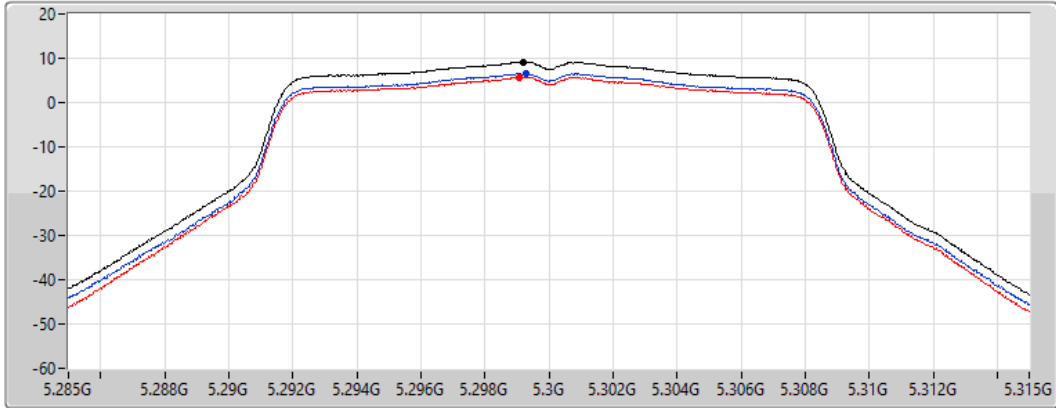
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.14	9.14	6.58	5.72

802.11a_Nss1,(6Mbps)_2TX

PSD

5320MHz

04/08/2022

CF
5.32GHz

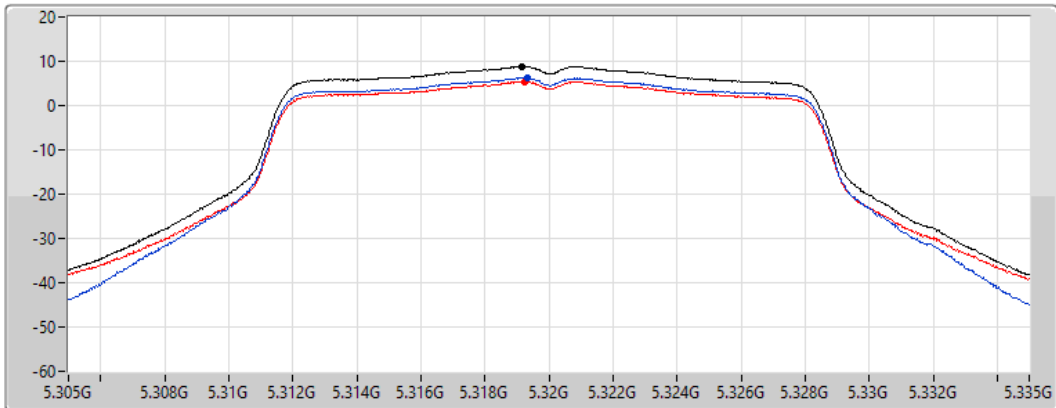
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.86	8.86	6.33	5.43

802.11a_Nss1,(6Mbps)_2TX

PSD

5500MHz

04/08/2022

CF
5.5GHz

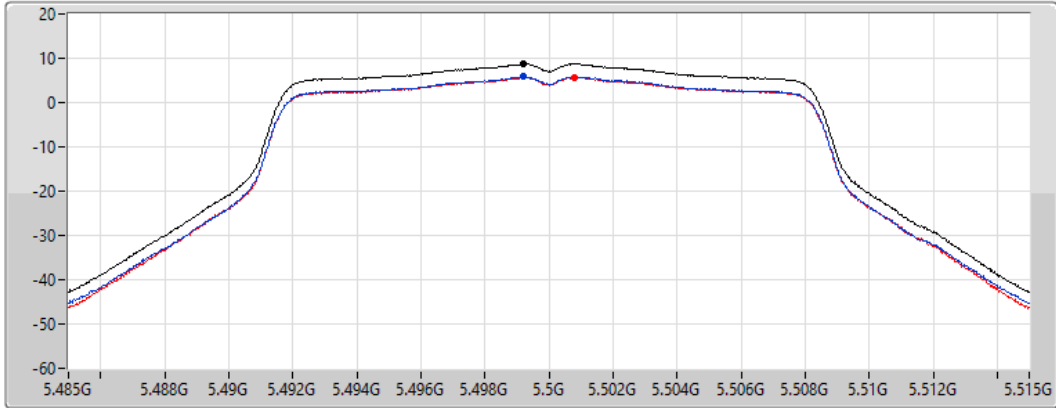
Span
30MHz

RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.72	8.72	5.83	5.63

802.11a_Nss1,(6Mbps)_2TX

PSD

5580MHz

04/08/2022

CF
5.58GHz

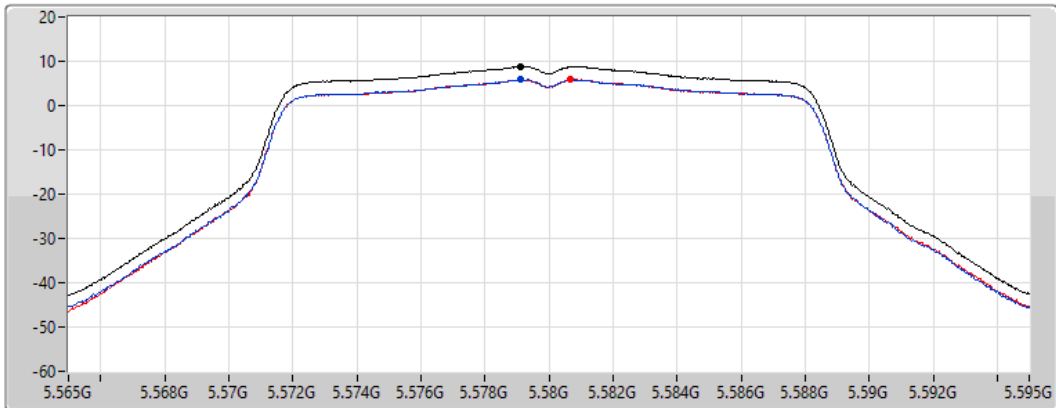
Span
30MHz

RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.84	8.84	5.94	5.82

802.11a_Nss1,(6Mbps)_2TX

PSD

5700MHz

04/08/2022

CF
5.7GHz

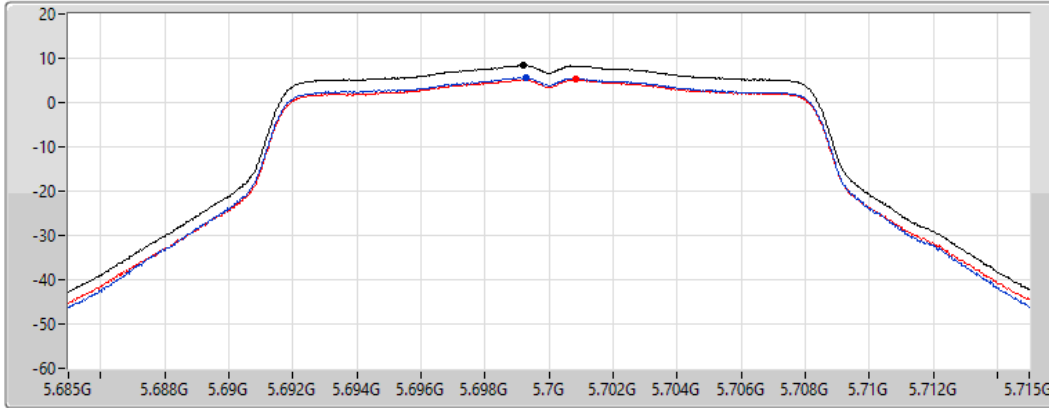
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.35	8.35	5.64	5.19

802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

04/08/2022

CF
5.71GHz

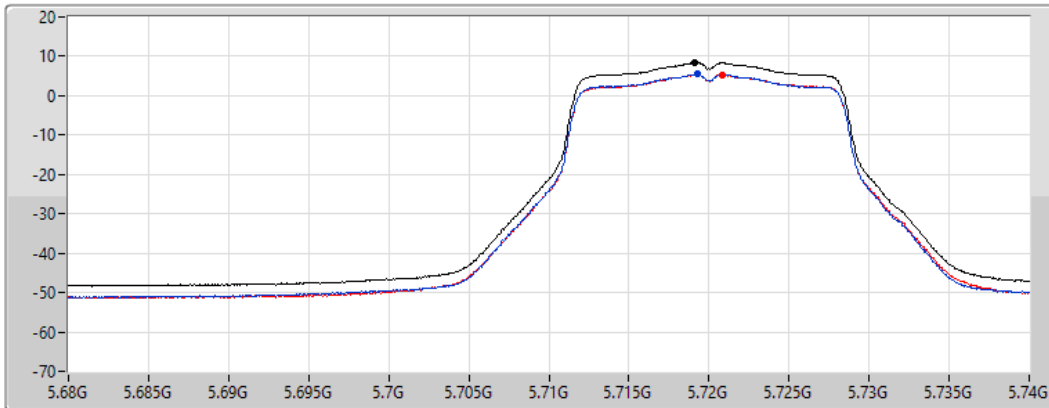
Span
60MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

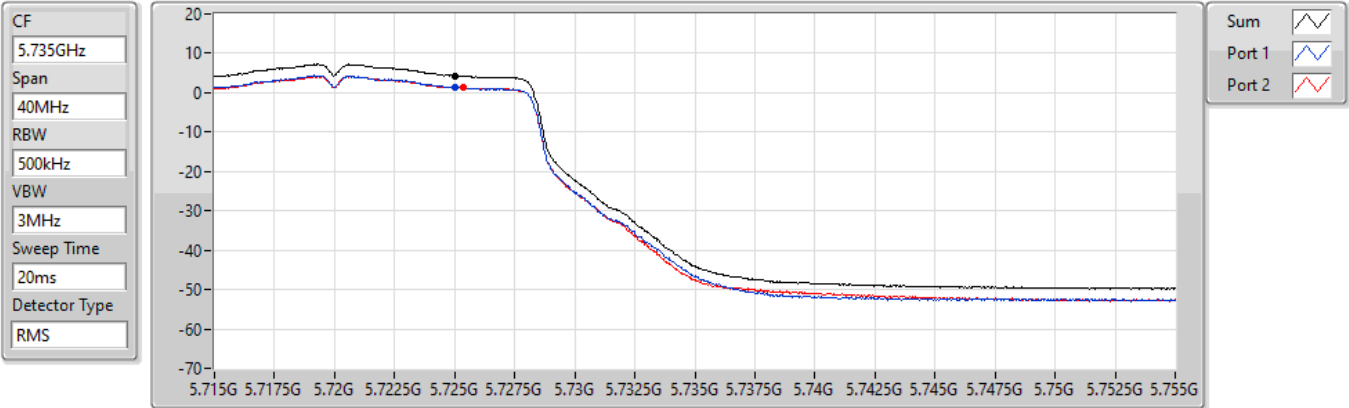
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.42	8.42	5.50	5.40

802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

04/08/2022



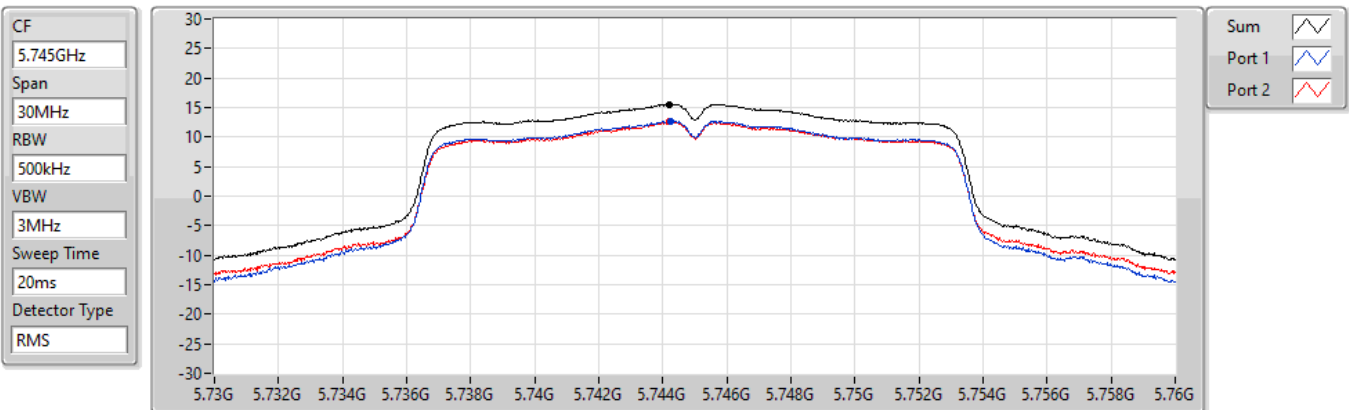
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.34	4.34	1.37	1.31

802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

04/08/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.54	15.54	12.71	12.54

802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

04/08/2022

CF
5.785GHz

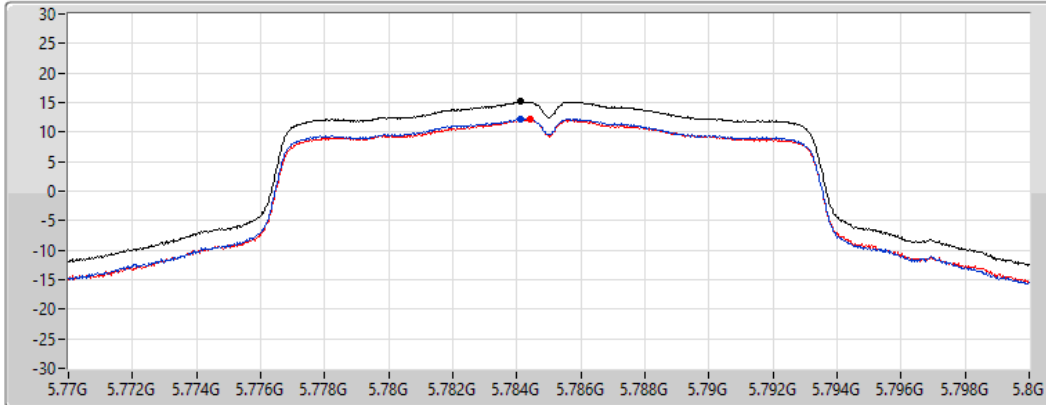
Span
30MHz

RBW
500kHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.12	15.12	12.25	12.11

802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

04/08/2022

CF
5.825GHz

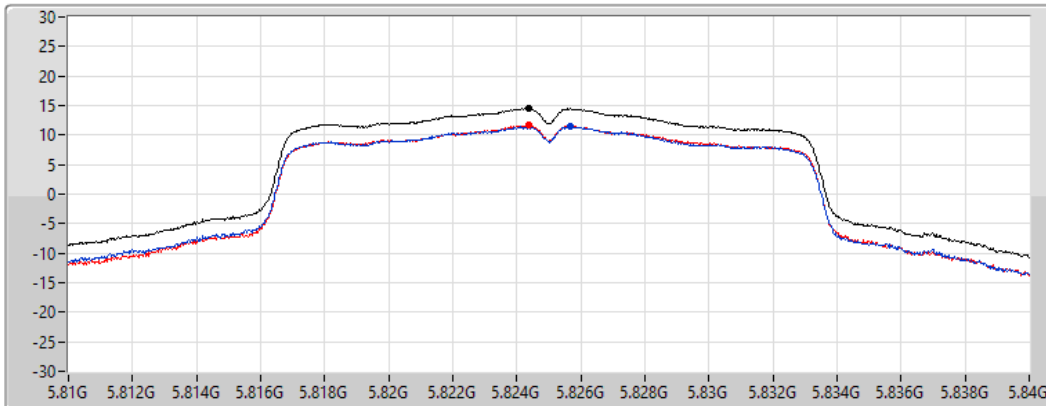
Span
30MHz

RBW
500kHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.54	14.54	11.46	11.65

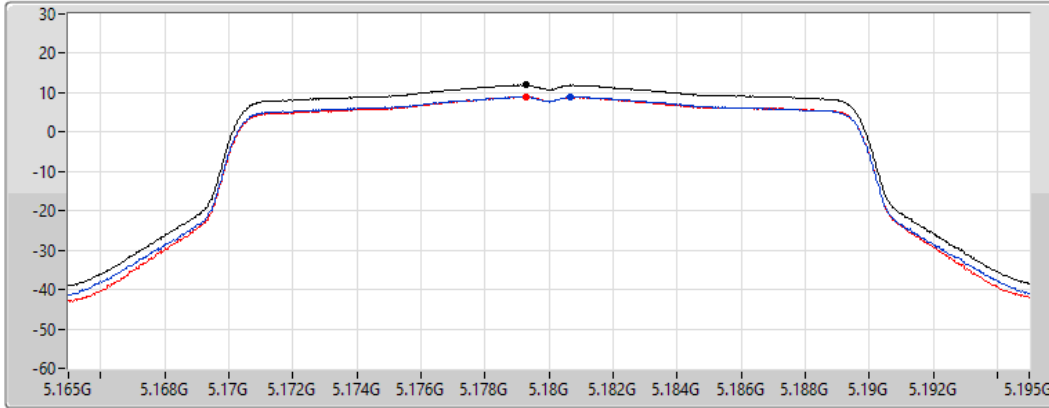
802.11ax HEW20_Nss1,(MCS0)_2TX




PSD

5180MHz

04/08/2022

CF
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.96	11.96	8.98	8.97

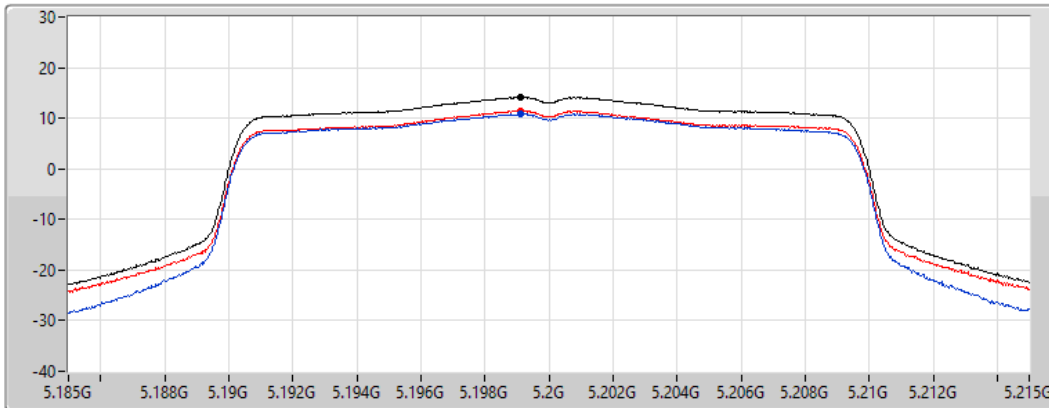
802.11ax HEW20_Nss1,(MCS0)_2TX




PSD

5200MHz

04/08/2022

CF
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.19	14.19	10.85	11.49

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5240MHz

04/08/2022

CF
5.24GHz

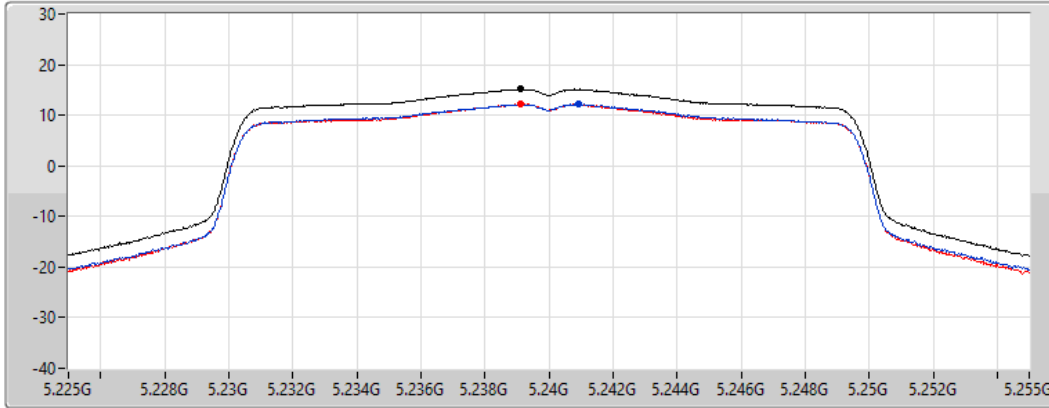
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.18	15.18	12.20	12.27

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5260MHz

04/08/2022

CF
5.26GHz

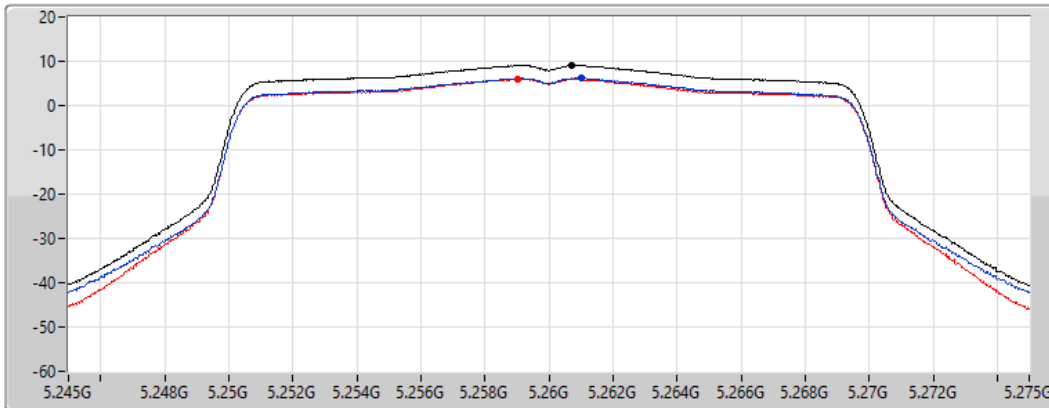
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.08	9.08	6.18	6.06

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5300MHz

04/08/2022

CF
5.3GHz

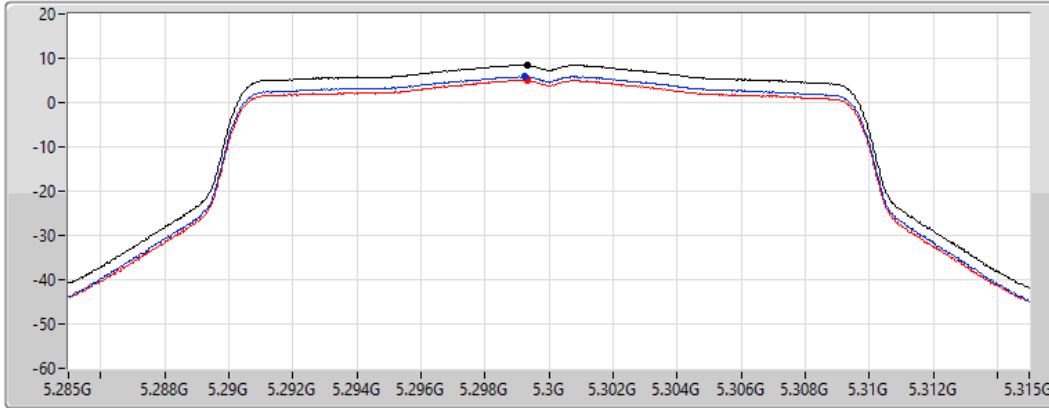
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.48	8.48	5.88	5.06

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5320MHz

04/08/2022

CF
5.32GHz

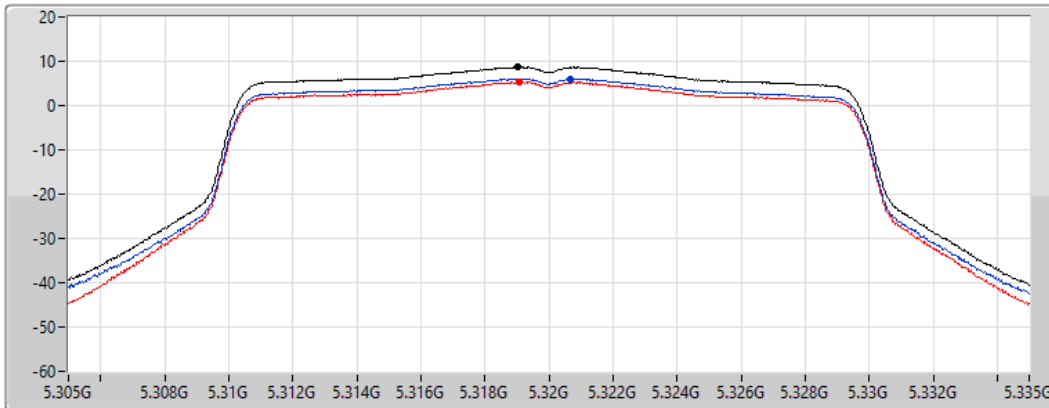
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.64	8.64	6.04	5.27

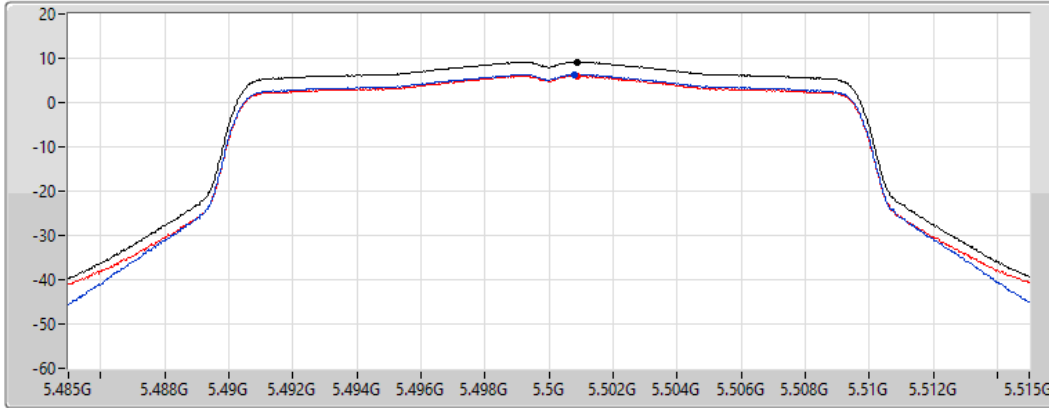
802.11ax HEW20_Nss1,(MCS0)_2TX




PSD

5500MHz

04/08/2022

CF
5.5GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.18	9.18	6.37	6.03

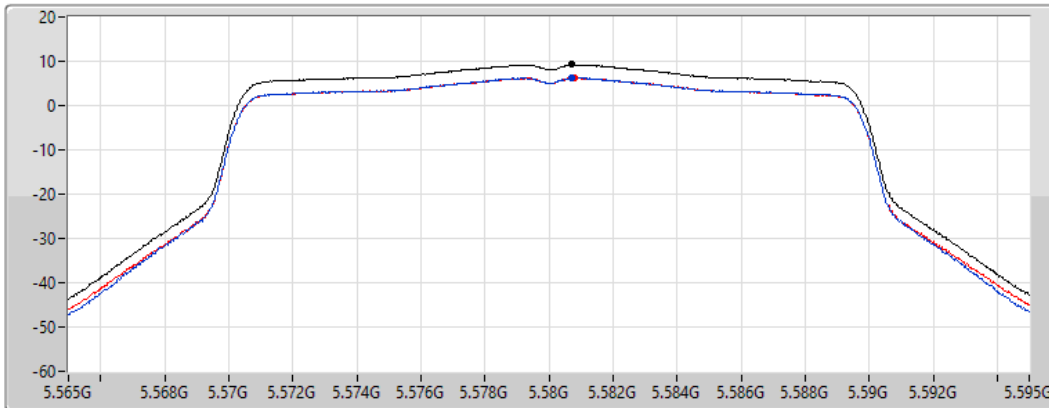
802.11ax HEW20_Nss1,(MCS0)_2TX




PSD

5580MHz

04/08/2022

CF
5.58GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.22	9.22	6.26	6.18

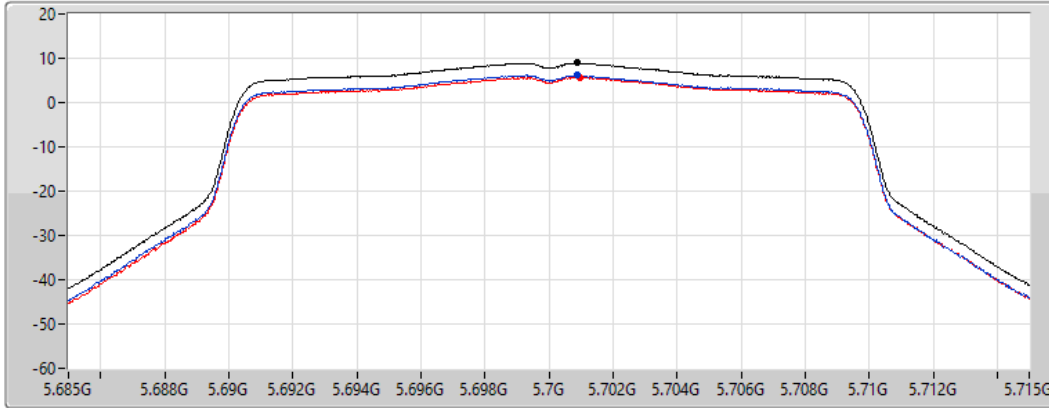
802.11ax HEW20_Nss1,(MCS0)_2TX




PSD

5700MHz

04/08/2022

CF
5.7GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.92	8.92	6.16	5.65

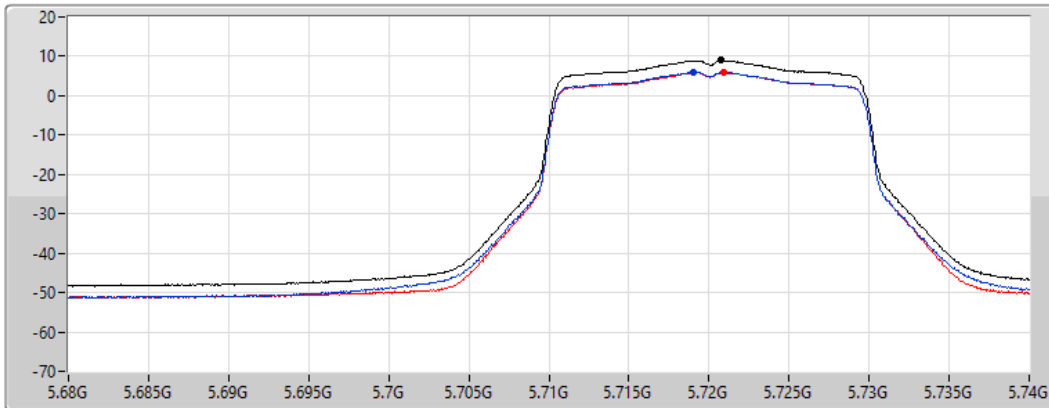
802.11ax HEW20_Nss1,(MCS0)_2TX




PSD

5720MHz Straddle 5.47-5.725GHz

04/08/2022

CF
5.71GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.95	8.95	5.99	5.91

802.11ax HEW20_Nss1,(MCS0)_2TX
5720MHz Straddle 5.725-5.85GHz

PSD

04/08/2022

CF
5.735GHz

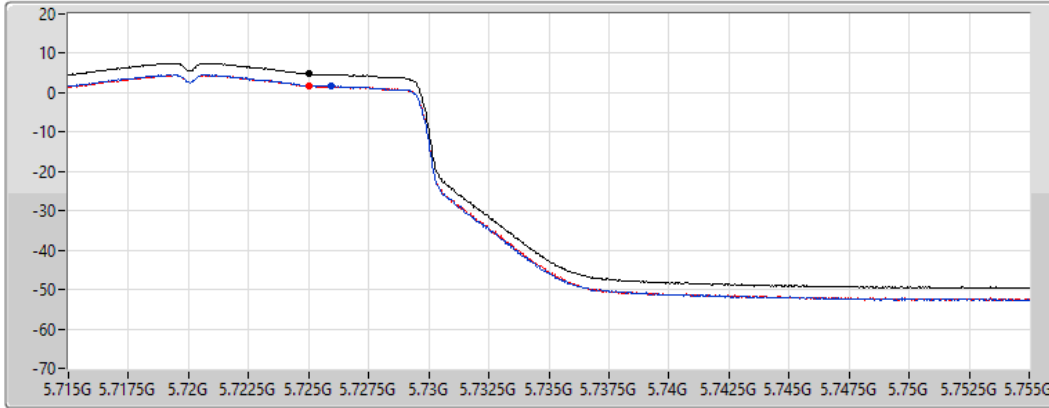
Span
40MHz

RBW
500kHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.73	4.73	1.85	1.69

802.11ax HEW20_Nss1,(MCS0)_2TX
5745MHz

PSD

04/08/2022

CF
5.745GHz

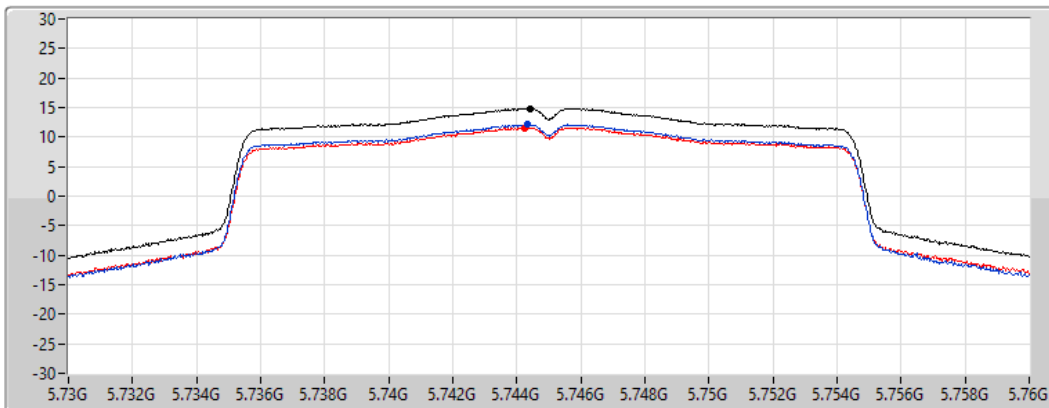
Span
30MHz

RBW
500kHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.84	14.84	12.11	11.60

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5785MHz

04/08/2022

CF
5.785GHz

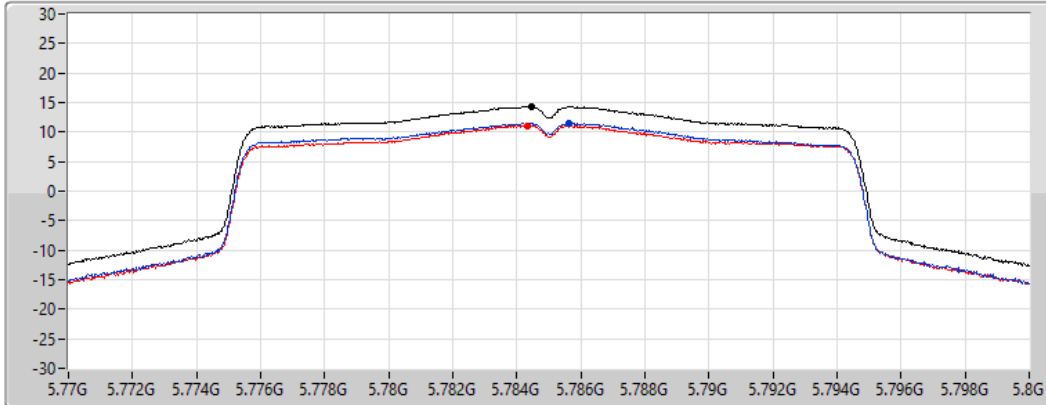
Span
30MHz

RBW
500kHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.32	14.32	11.58	11.12

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5825MHz

04/08/2022

CF
5.825GHz

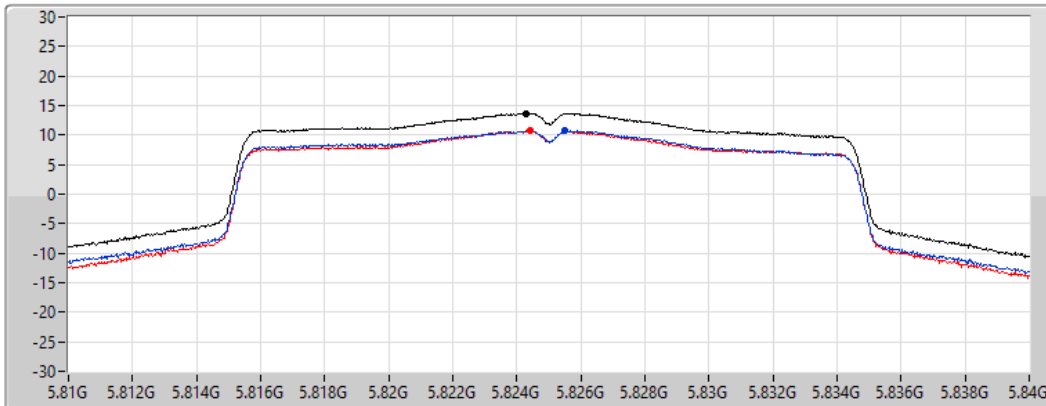
Span
30MHz

RBW
500kHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.67	13.67	10.72	10.68

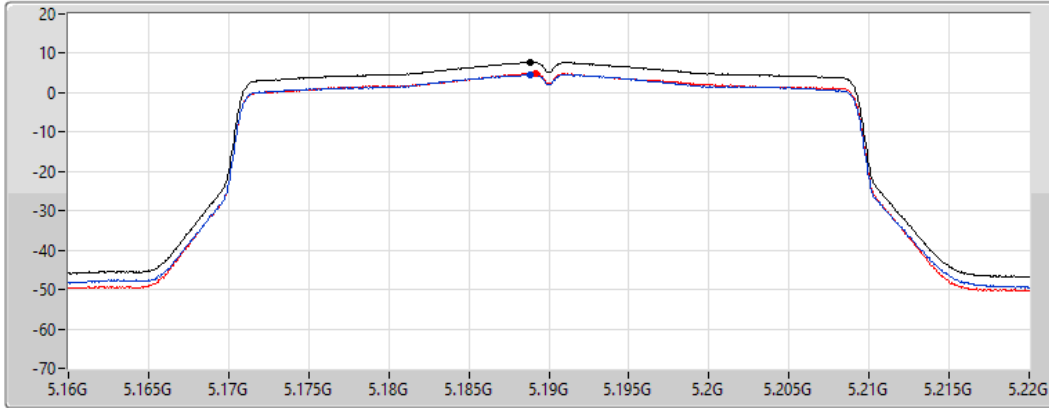
802.11ax HEW40_Nss1,(MCS0)_2TX




PSD

5190MHz

04/08/2022

CF
5.19GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.77	7.77	4.58	4.95

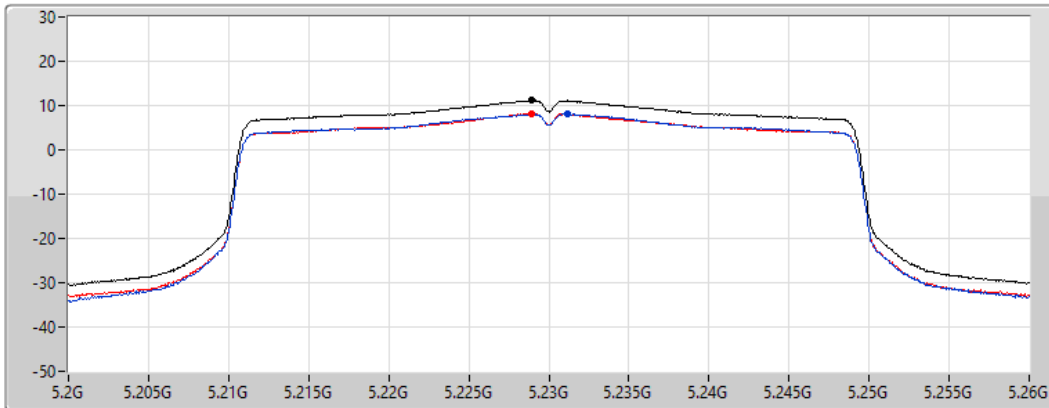
802.11ax HEW40_Nss1,(MCS0)_2TX




PSD

5230MHz

04/08/2022

CF
5.23GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.12	11.12	8.08	8.25

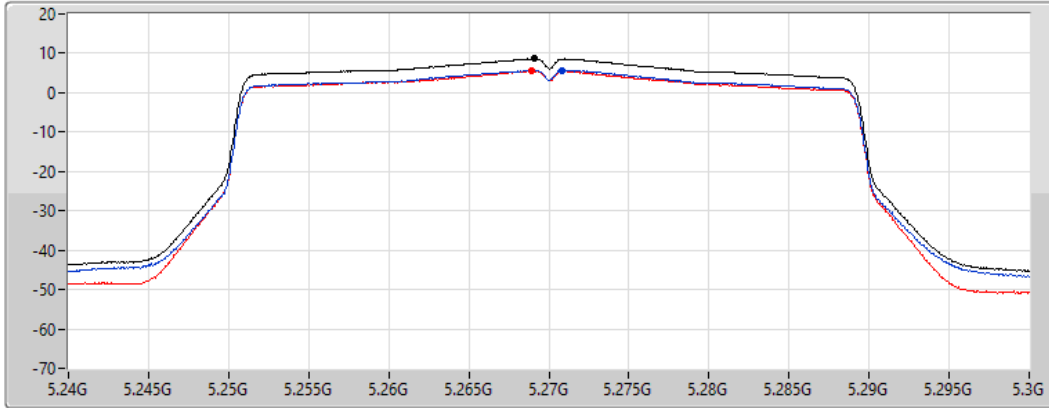
802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5270MHz

04/08/2022

CF
5.27GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.62	8.62	5.74	5.53

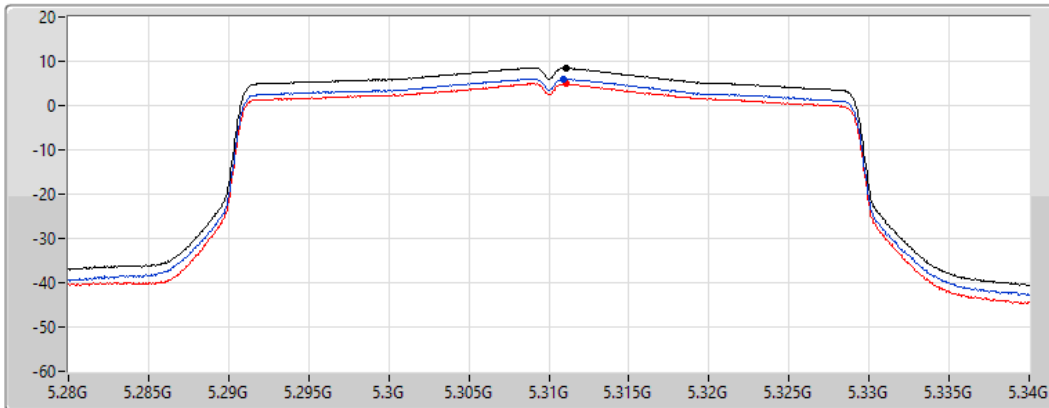
802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5310MHz

04/08/2022

CF
5.31GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.51	8.51	6.05	4.94

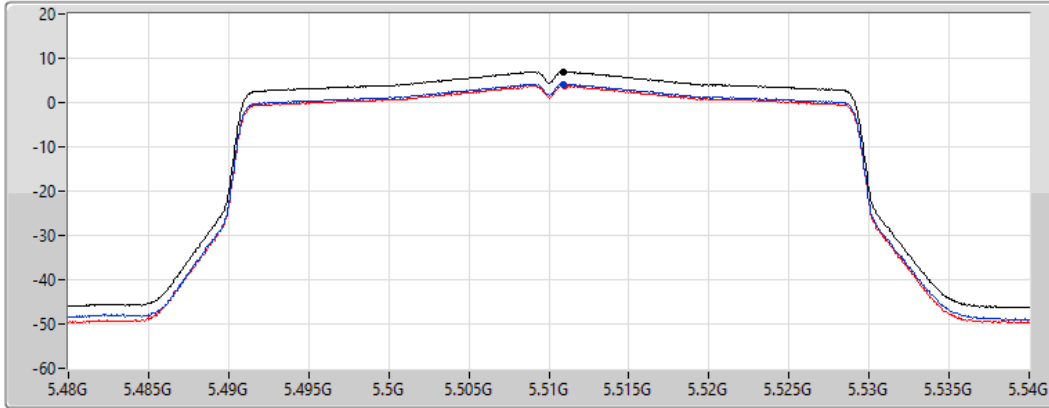
802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5510MHz

04/08/2022

CF
5.51GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.96	6.96	4.19	3.75

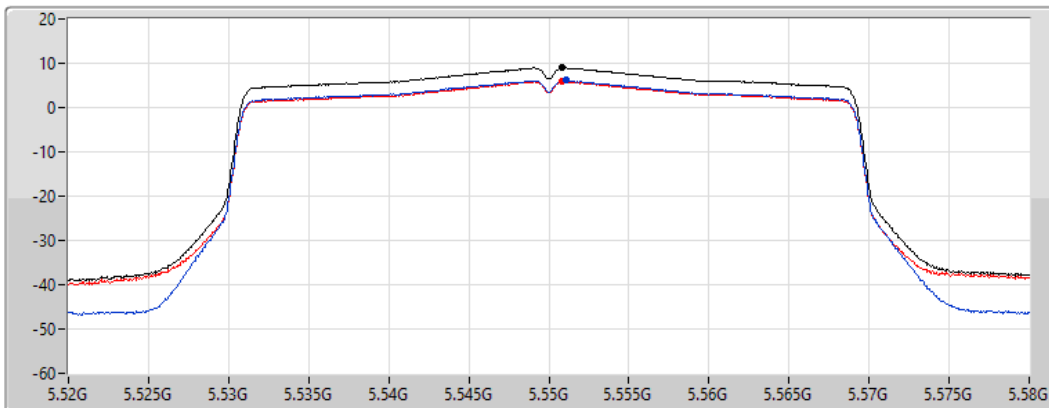
802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5550MHz

04/08/2022

CF
5.55GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.96	8.96	6.13	5.87

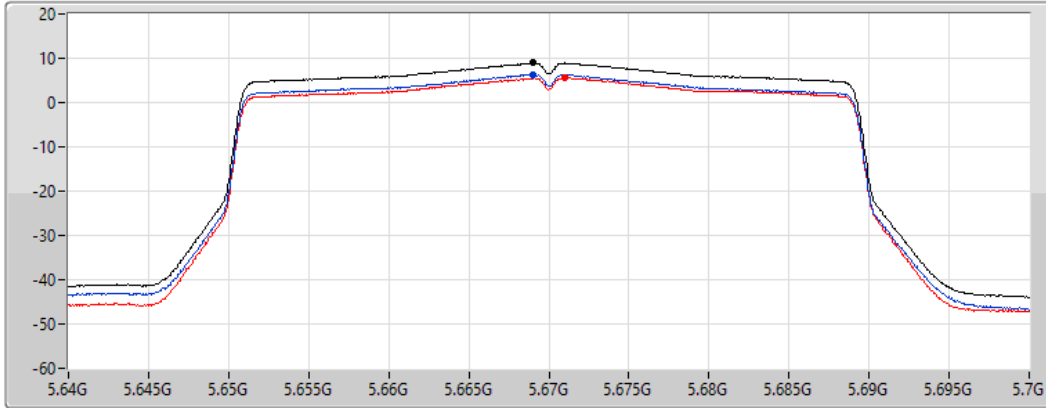
802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5670MHz

04/08/2022

CF
5.67GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.96	8.96	6.37	5.55

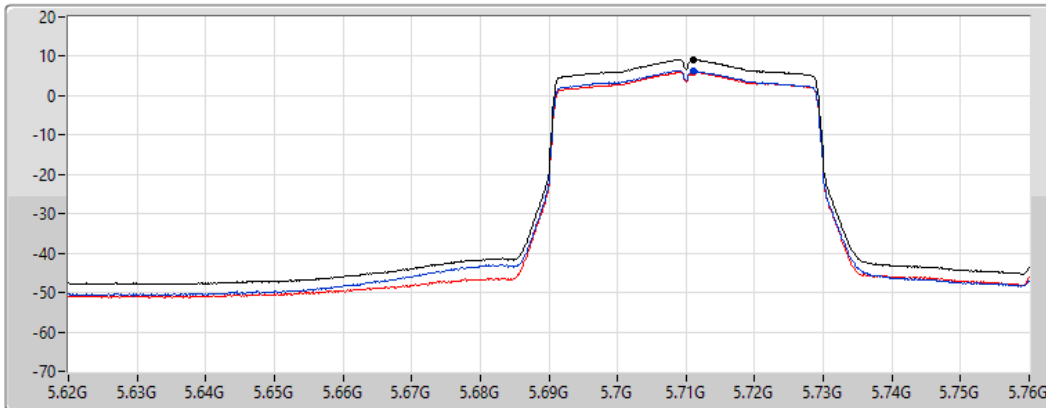
802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.47-5.725GHz

04/08/2022

CF
5.69GHz
Span
140MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.19	9.19	6.37	5.99

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.725-5.85GHz

04/08/2022

CF
5.735GHz

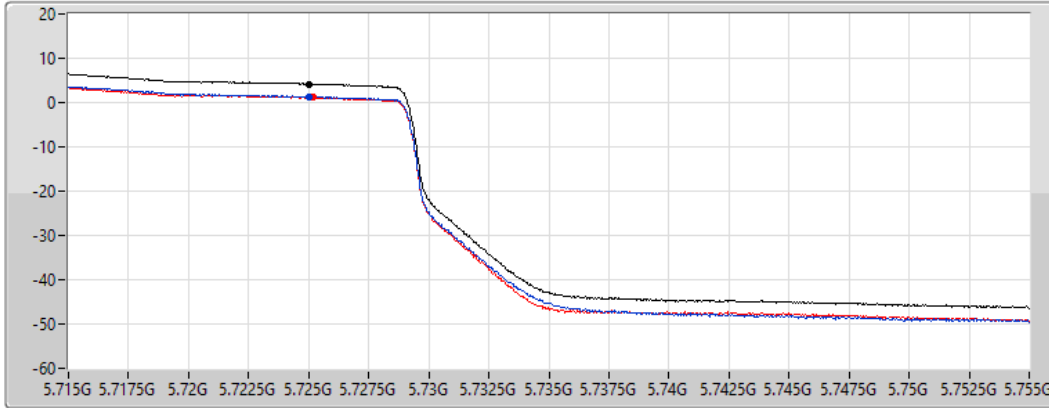
Span
40MHz

RBW
500kHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.20	4.20	1.29	1.18

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5755MHz

04/08/2022

CF
5.755GHz

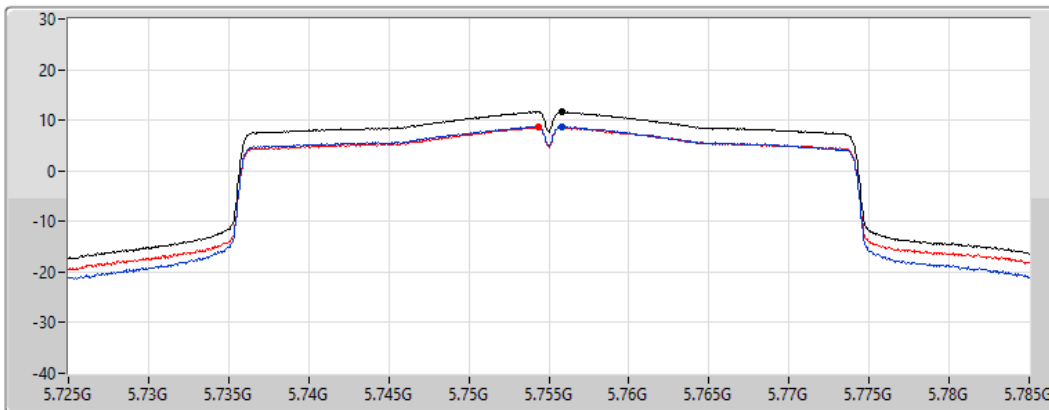
Span
60MHz

RBW
500kHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.64	11.64	8.77	8.56

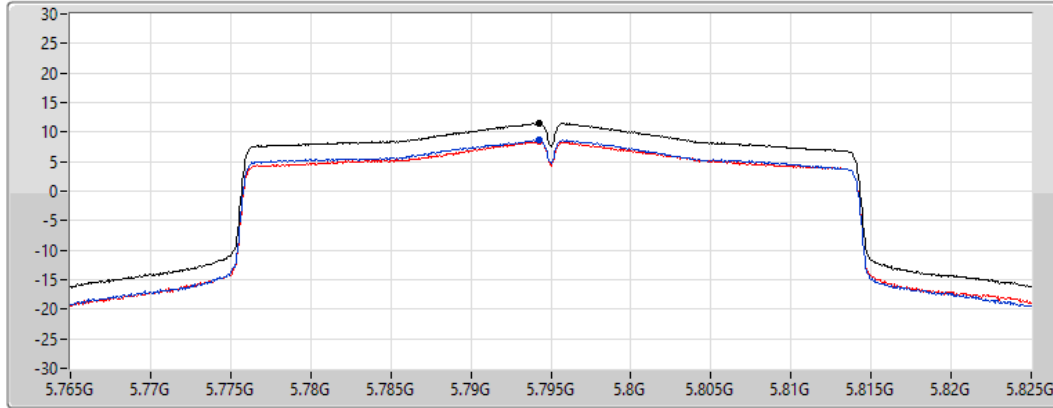
802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5795MHz

04/08/2022

CF
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.48	11.48	8.60	8.34

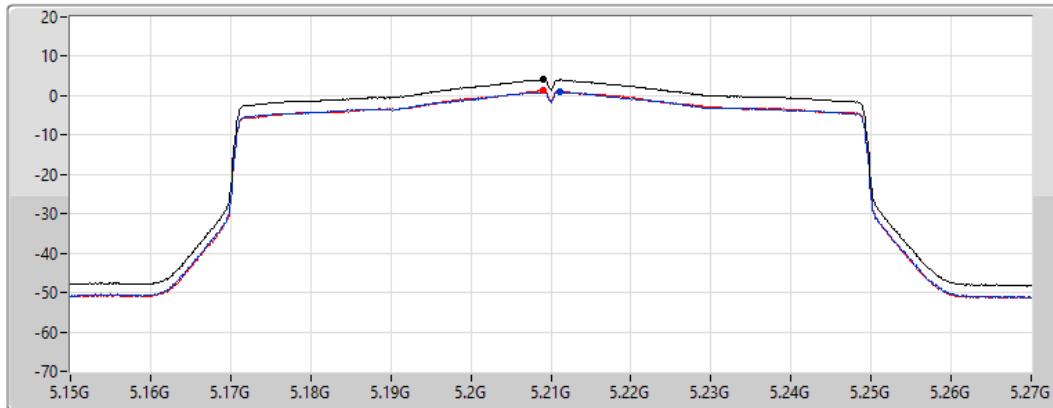
802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5210MHz

04/08/2022

CF
5.21GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.06	4.06	0.90	1.35

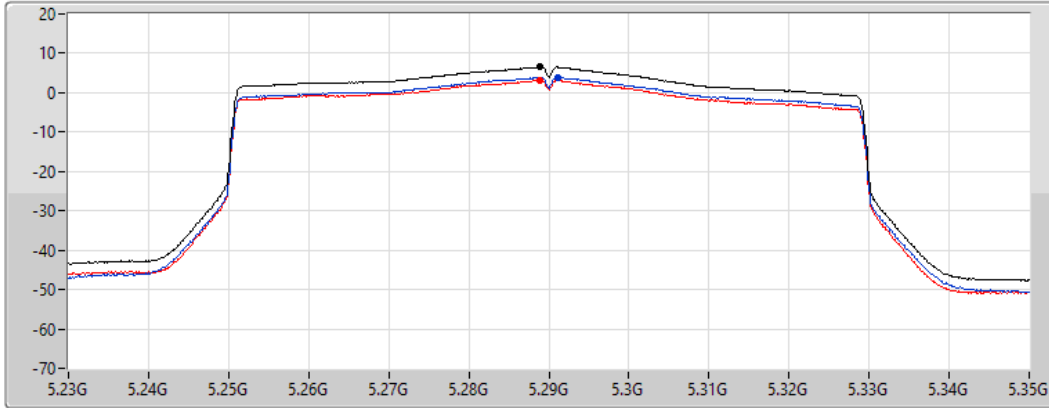
802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5290MHz

04/08/2022

CF
5.29GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.59	6.59	3.94	3.28

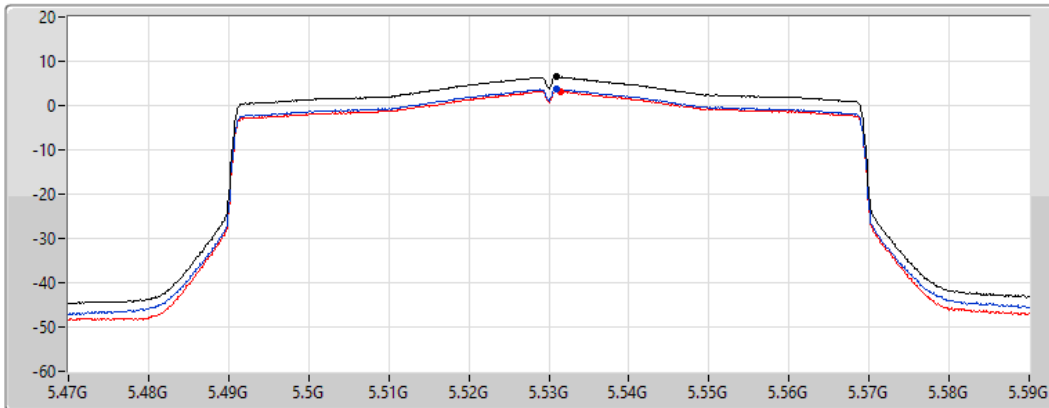
802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5530MHz

04/08/2022

CF
5.53GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.48	6.48	3.75	3.22

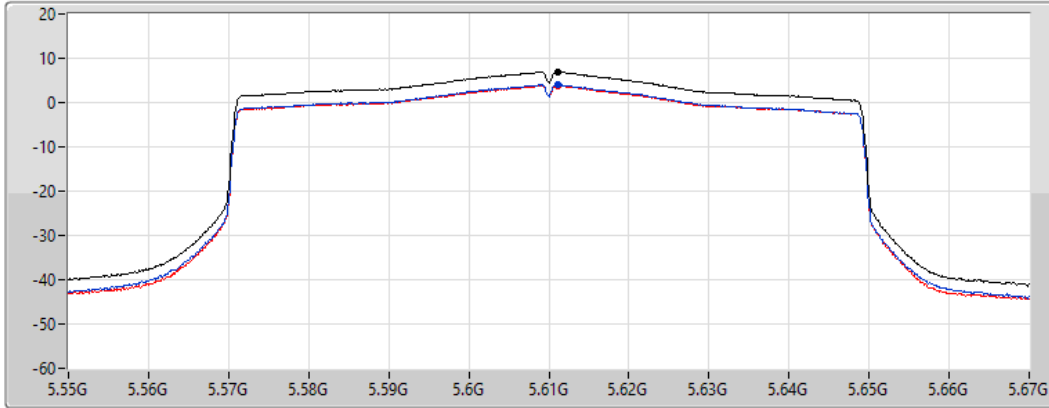
802.11ax HEW80_Nss1,(MCS0)_2TX




PSD

5610MHz

04/08/2022

CF
5.61GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.93	6.93	3.99	3.84

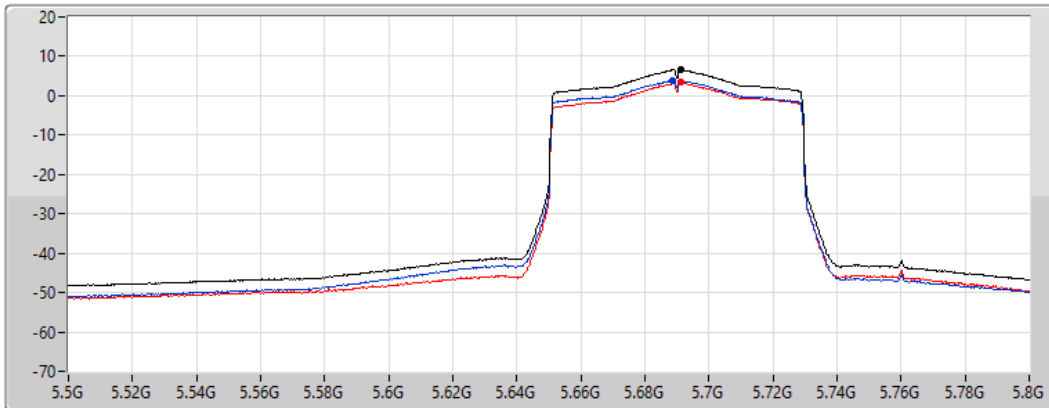
802.11ax HEW80_Nss1,(MCS0)_2TX




PSD

5690MHz Straddle 5.47-5.725GHz

04/08/2022

CF
5.65GHz
Span
300MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum 
Port 1 
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.62	6.62	3.94	3.32

802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.725-5.85GHz

04/08/2022

CF
5.735GHz

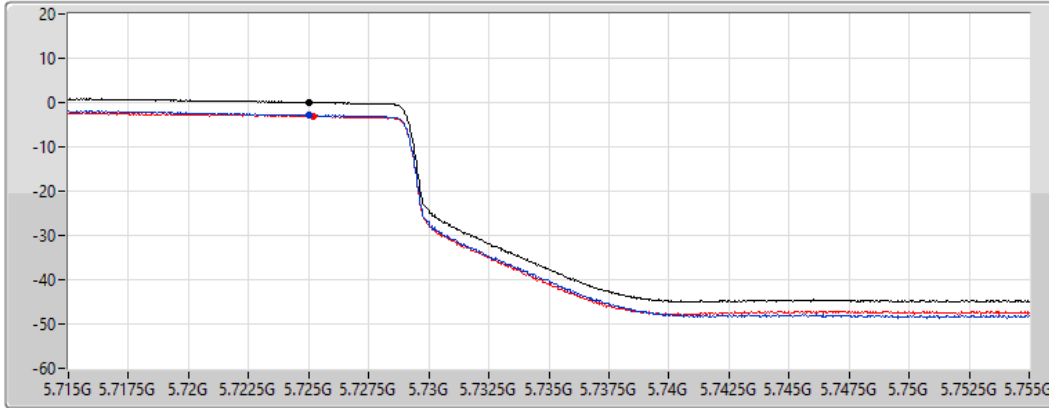
Span
40MHz


RBW
500kHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.11	0.11	-2.72	-3.06

802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz

04/08/2022

CF
5.775GHz

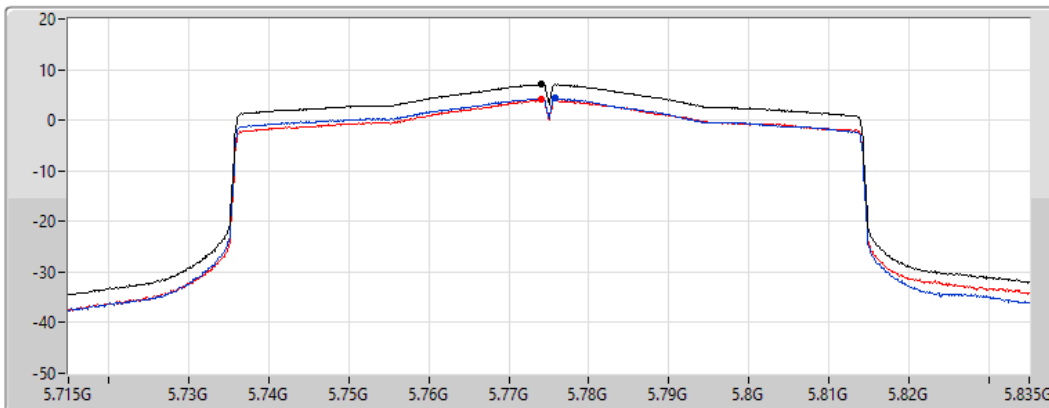
Span
120MHz


RBW
500kHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

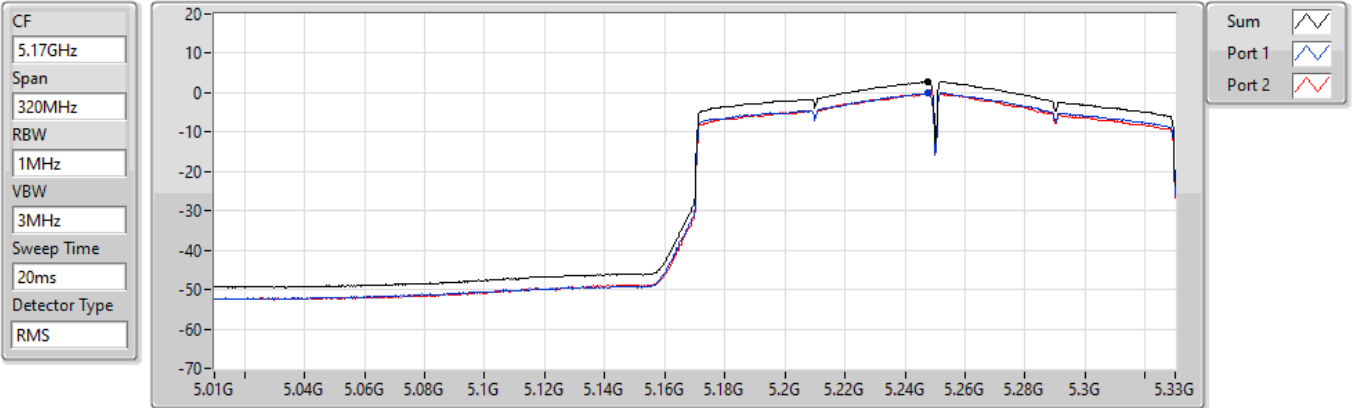
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.16	7.16	4.29	4.11

802.11ax HEW160_Nss1,(MCS0)_2TX

PSD

5250MHz Straddle 5.15-5.25GHz

04/08/2022



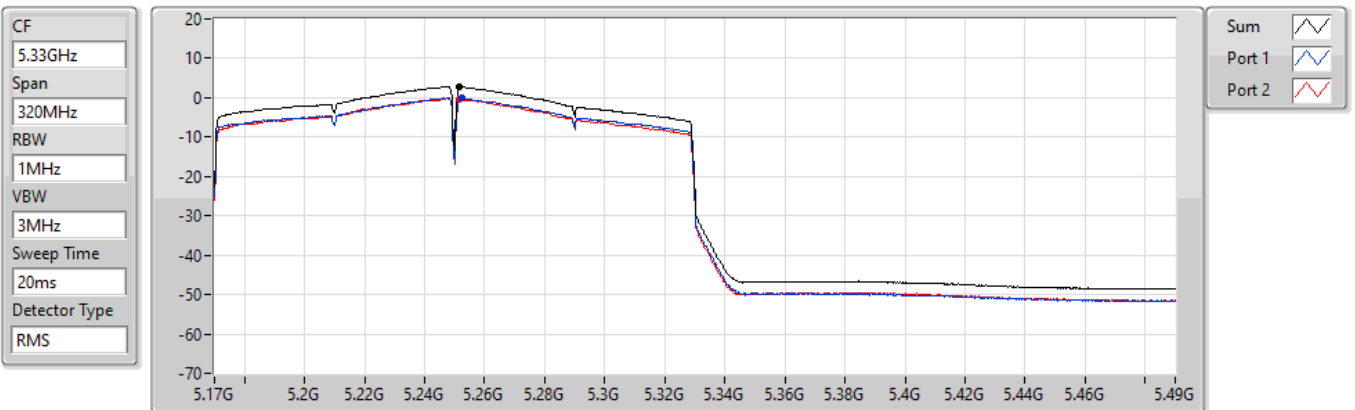
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.90	2.90	-0.09	-0.05

802.11ax HEW160_Nss1,(MCS0)_2TX

PSD

5250MHz Straddle 5.25-5.35GHz

04/08/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.84	2.84	-0.04	-0.22

802.11ax HEW160_Nss1,(MCS0)_2TX

PSD

5570MHz

04/08/2022

CF
5.57GHz

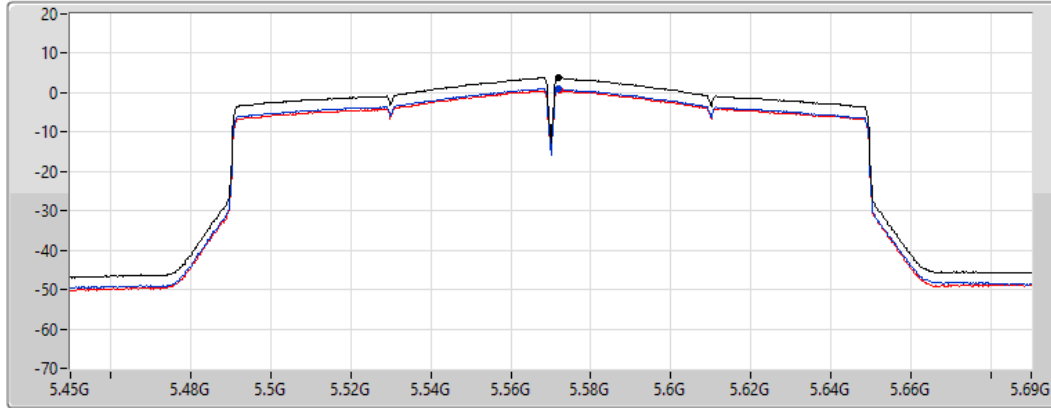
Span
240MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.80	3.80	1.01	0.55



Summary

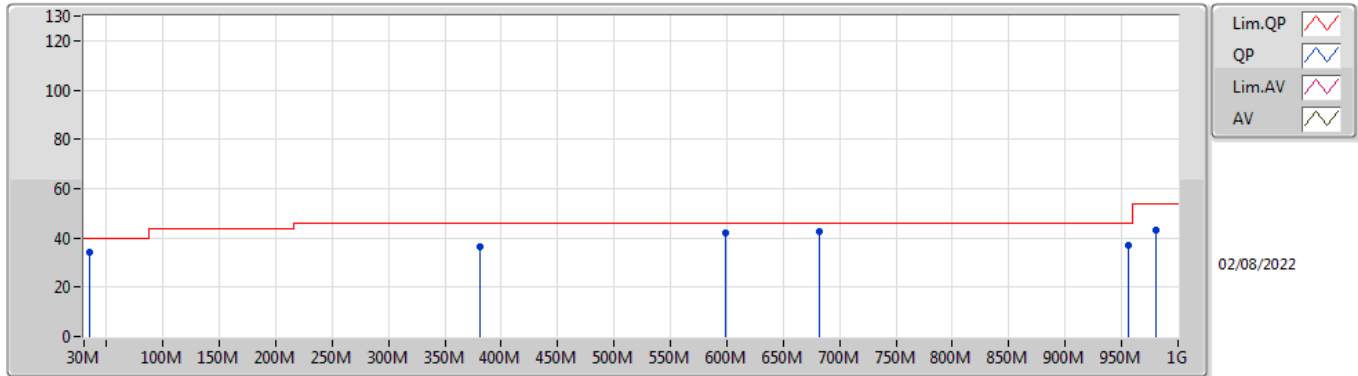
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_2TX	Pass	PK	681.84M	42.36	46.00	-3.64	3	Vertical	360	1.00	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.25-5.35GHz	Pass	PK	381.14M	36.46	46.00	-9.54	3	Vertical	360	1.00	-
5250MHz Straddle 5.25-5.35GHz	Pass	PK	598.42M	41.98	46.00	-4.02	3	Vertical	360	1.00	-
5250MHz Straddle 5.25-5.35GHz	Pass	PK	681.84M	42.36	46.00	-3.64	3	Vertical	360	1.00	-
5250MHz Straddle 5.25-5.35GHz	Pass	PK	955.38M	37.25	46.00	-8.75	3	Vertical	360	1.00	-
5250MHz Straddle 5.25-5.35GHz	Pass	PK	980.6M	43.18	54.00	-10.82	3	Vertical	360	1.00	-
5250MHz Straddle 5.25-5.35GHz	Pass	QP	34.85M	34.22	40.00	-5.78	3	Vertical	291	1.00	-
5250MHz Straddle 5.25-5.35GHz	Pass	PK	33.88M	26.07	40.00	-13.93	3	Horizontal	0	1.00	-
5250MHz Straddle 5.25-5.35GHz	Pass	PK	99.84M	25.69	43.50	-17.81	3	Horizontal	0	1.00	-
5250MHz Straddle 5.25-5.35GHz	Pass	PK	291.9M	32.97	46.00	-13.03	3	Horizontal	0	1.00	-
5250MHz Straddle 5.25-5.35GHz	Pass	PK	394.72M	35.53	46.00	-10.47	3	Horizontal	0	1.00	-
5250MHz Straddle 5.25-5.35GHz	Pass	PK	592.6M	38.70	46.00	-7.30	3	Horizontal	0	1.00	-
5250MHz Straddle 5.25-5.35GHz	Pass	PK	681.84M	40.74	46.00	-5.26	3	Horizontal	0	1.00	-

802.11ax HEW160_Nss1,(MCS0)_2TX
5250MHz Straddle 5.25-5.35GHz_PoE

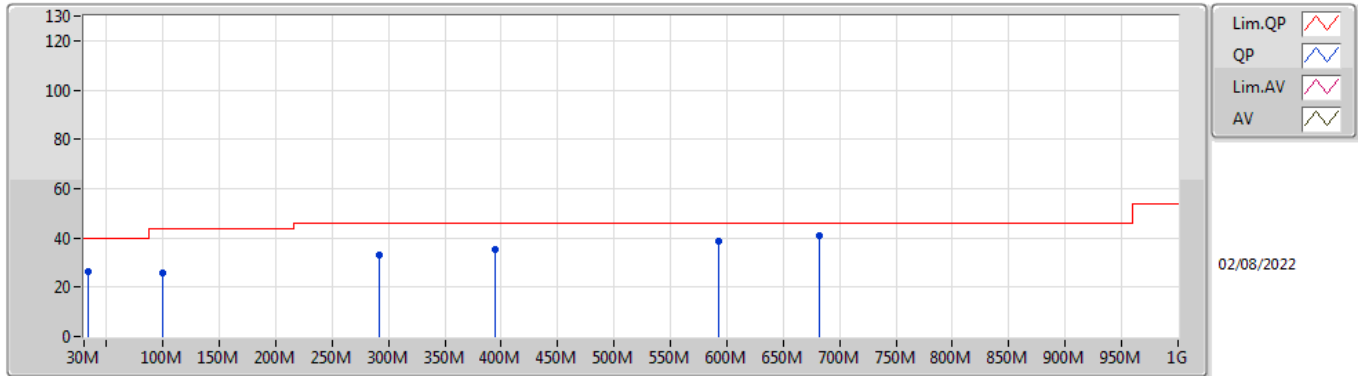


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	381.14M	36.46	46.00	-9.54	-14.25	3	Vertical	360	1.00	-	50.71	20.31	1.96	36.52
PK	598.42M	41.98	46.00	-4.02	-9.66	3	Vertical	360	1.00	-	51.64	24.77	2.66	37.09
PK	681.84M	42.36	46.00	-3.64	-8.71	3	Vertical	360	1.00	-	51.07	25.64	2.93	37.28
PK	955.38M	37.25	46.00	-8.75	-3.84	3	Vertical	360	1.00	-	41.09	30.12	3.37	37.33
PK	980.6M	43.18	54.00	-10.82	-3.76	3	Vertical	360	1.00	-	46.94	30.04	3.43	37.23
QP	34.85M	34.22	40.00	-5.78	-15.31	3	Vertical	291	1.00	-	49.53	21.29	0.53	37.13



802.11ax HEW160_Nss1,(MCS0)_2TX

5250MHz Straddle 5.25-5.35GHz_PoE



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	33.88M	26.07	40.00	-13.93	-14.97	3	Horizontal	0	1.00	-	41.04	21.66	0.52	37.15
PK	99.84M	25.69	43.50	-17.81	-20.55	3	Horizontal	0	1.00	-	46.24	15.13	0.96	36.64
PK	291.9M	32.97	46.00	-13.03	-16.43	3	Horizontal	0	1.00	-	49.40	18.31	1.68	36.42
PK	394.72M	35.53	46.00	-10.47	-13.72	3	Horizontal	0	1.00	-	49.25	20.79	2.00	36.51
PK	592.6M	38.70	46.00	-7.30	-9.66	3	Horizontal	0	1.00	-	48.36	24.80	2.64	37.10
PK	681.84M	40.74	46.00	-5.26	-8.71	3	Horizontal	0	1.00	-	49.45	25.64	2.93	37.28