

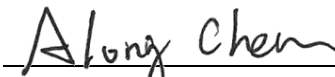
FCC Test Report

FCC ID : 2AU6R04011
Equipment : 802.11be (WiFi 7) Triple-Radio PoE Access Point
(Please refer to section 1.1.1 for more details)
Model No. : NWA130BE
(Please refer to section 1.1.1 for more details)
Brand Name : ZYXEL
Applicant : Zyxel Networks Corporation
Address : No.2 Industry East RD. IX, Hsinchu Science Park, Hsinchu 30075, Taiwan, R.O.C
Standard : 47 CFR FCC Part 15.407
Received Date : Sep. 11, 2023
Tested Date : Dec. 12 ~ Dec. 26, 2023

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:


Along Chen / Assistant Manager

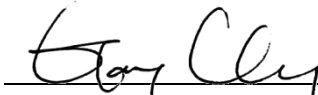

Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR391101AN	Rev. 01	Initial issue	Feb. 07, 2024

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 11.125MHz 44.84 (Margin -5.16dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5150.00MHz 53.87 (Margin -0.13dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: Non-beamforming mode 5150~5250MHz: 27.15 5250~5350MHz: 23.92 5470~5725MHz: 23.65 5725~5850MHz: 26.95 Beamforming mode 5150~5250MHz: 24.14 5250~5350MHz: 20.91 5470~5725MHz: 20.64 5725~5850MHz: 23.94	Pass
15.407(a)	Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	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 declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
ZYXEL	NWA130BE	802.11be (WiFi 7) Triple-Radio PoE Access Point	The difference between the two models is marketing purpose.
ZYXEL	WBE530	802.11be (WiFi 7) Triple-Radio unified Access Point	

Note: The above models, model **NWA130BE** was selected as a representative one for the final test and only its data was recorded in this report.

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2	MCS 0-15
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	2	MCS 0-15
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	2	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	2	MCS 0-9
5150-5250 5250-5350 5470-5725	ac (VHT160)	5250 5570	50 [1] 114 [1]	2	MCS 0-11
5150-5250 5250-5350	ax (HE20)	5180-5240 5260-5320	36-48 [4] 52-64 [4]	2	MCS 0-11

5470-5725 5725-5850		5500-5720 5745-5825	100-144 [12] 149-165 [5]		
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	2	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	2	MCS 0-11
5150-5250 5250-5350 5470-5725	ax (HE160)	5250 5570	50 [1] 114 [1]	2	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	be (EHT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2	MCS 0-13
5150-5250 5250-5350 5470-5725 5725-5850	be (EHT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	2	MCS 0-13
5150-5250 5250-5350 5470-5725 5725-5850	be (EHT80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	2	MCS 0-13
5150-5250 5250-5350 5470-5725	be (EHT160)	5250 5570	50 [1] 114 [1]	2	MCS 0-13
5470-5725	be (EHT240)	5610	122 [1]	2	MCS 0-13

Note 1: OFDM- BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM and 4096QAM modulation.
Note 2: TPC function is supported.
Note 3: 802.11n/ac/ax/be supports beamforming function.

1.1.3 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)			
					5150~5250	5250~5350	5470~5725	5725~5850
1	Aristotle	RFA-12123-V2	PIFA	UFL	3.4	3.41	2.73	3.14
2					5.14	5.14	4.77	4.77

1.1.4 Configuration of Equipment under Test (EUT)

Power Supply Type	12Vdc from AC adapter 56Vdc from POE		
RU Configuration	☒ Full RU ☐ Partial RU		
Channel Puncturing	☐ Support ☒ Not support		

Note: The above power supplies are not bundled in market.

1.1.5 Accessories

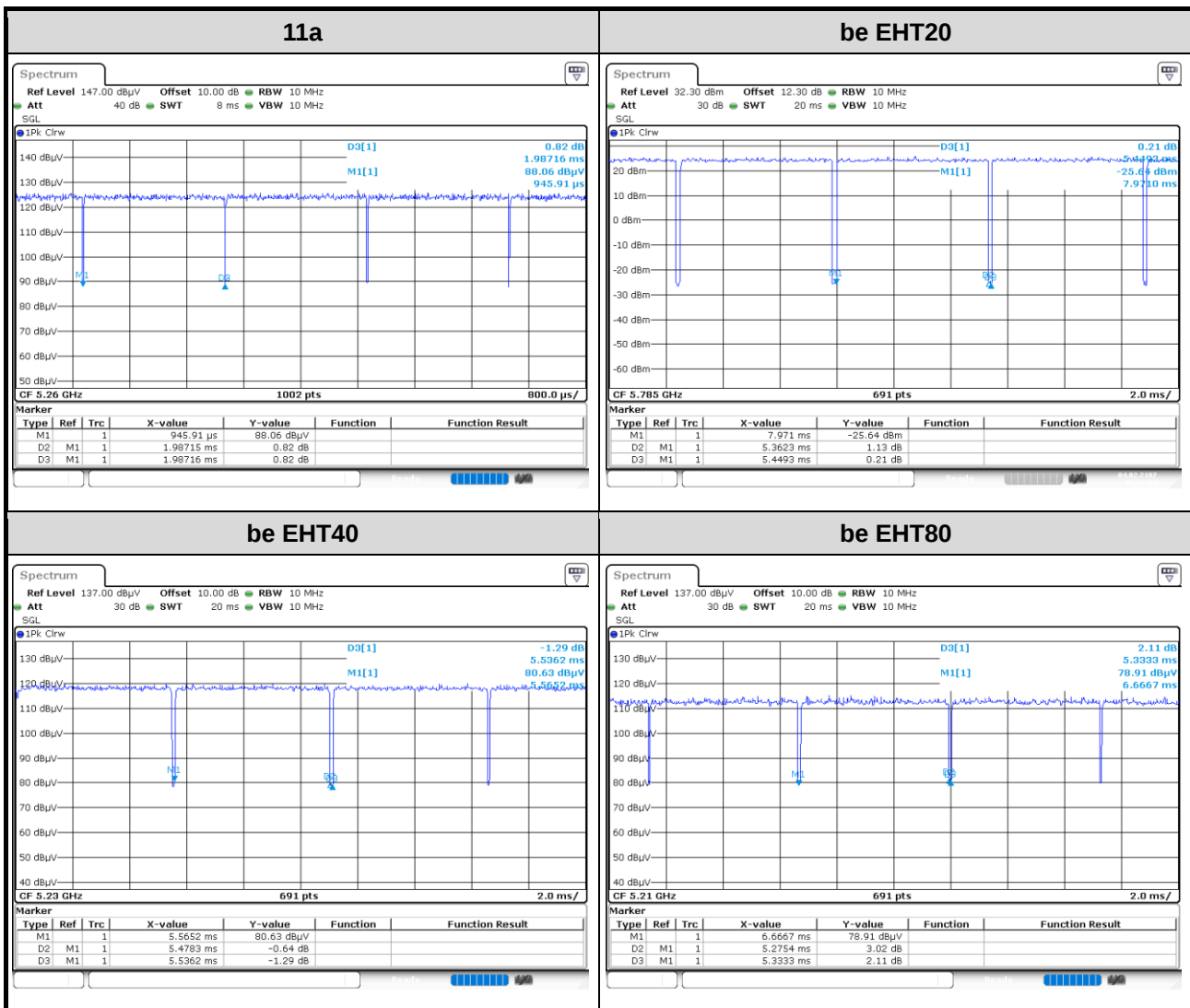
N/A

1.1.6 Channel List

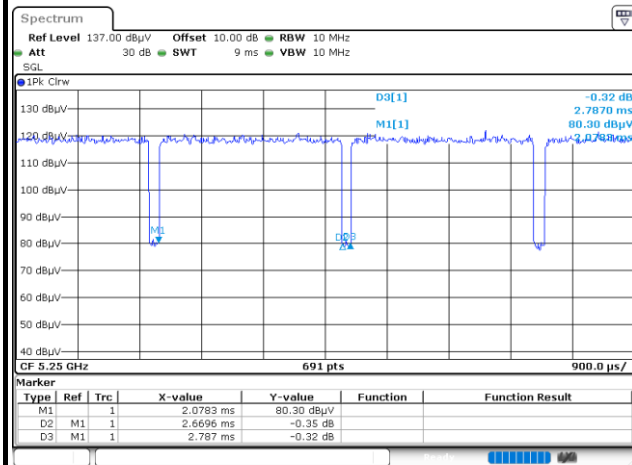
802.11a / n HT20 / ac VHT20 / ax HE20 / be EHT20		802.11n HT40 / ac VHT40 / ax HE40 / be EHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	5755
112	5560	159	5795
116	5580	802.11ac VHT80 / ax HE80 / be EHT80	
120	5600	42	5210
124	5620	58	5290
128	5640	106	5530
132	5660	122	5610
136	5680	138	5690
140	5700	155	5775
144	5720	ac VHT160 / ax HE160 / be EHT160	
149	5745	50	5250
153	5765	114	5570
157	5785	be EHT240	
161	5805	122	5610
165	5825	---	---

1.1.7 Test Tool and Duty Cycle

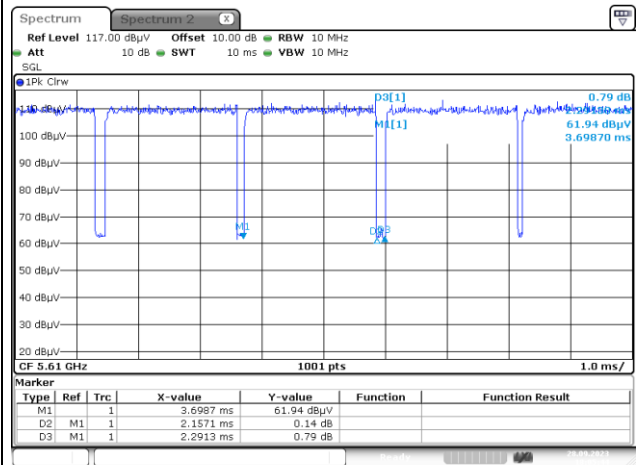
Test Tool	QSPR, Version: V5.14.00227.1		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	100.00%	0.00
	be EHT20	98.40%	0.07
	be EHT40	98.95%	0.05
	be EHT80	98.91%	0.05
	be EHT160	95.79%	0.19
	be EHT240	94.14%	0.26



be EHT160



be EHT240



1.1.8 Power Index of Test Tool

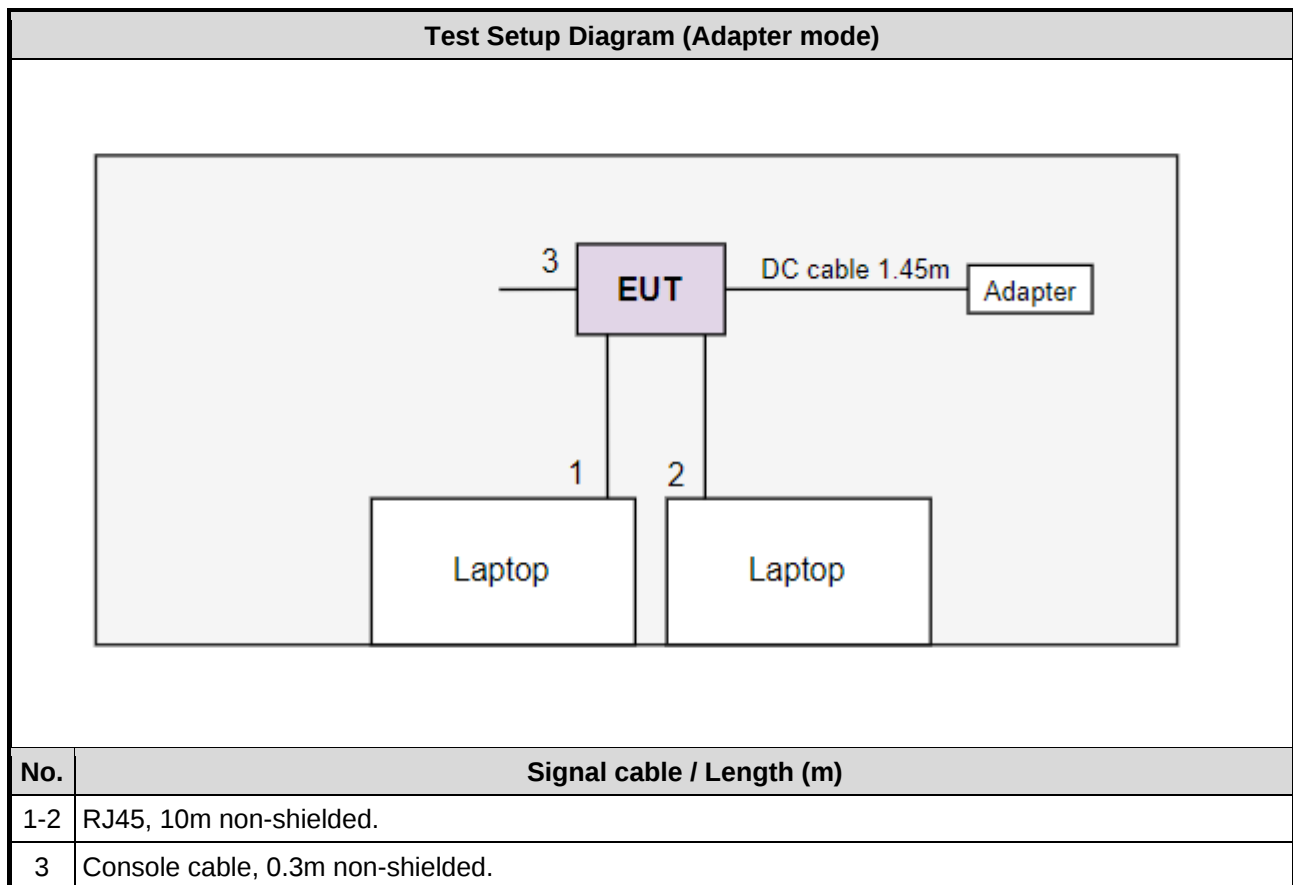
Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	20
11a	5200	23.5
11a	5240	24
11a	5260	19
11a	5300	19
11a	5320	19
11a	5500	20
11a	5580	20
11a	5700	20
11a	5720	20
11a	5745	24
11a	5785	24
11a	5825	24
be EHT20	5180	20
be EHT20	5200	23
be EHT20	5240	24
be EHT20	5260	20
be EHT20	5300	20
be EHT20	5320	20
be EHT20	5500	20.5
be EHT20	5580	20.5
be EHT20	5700	19.5
be EHT20	5720	20
be EHT20	5745	24
be EHT20	5785	24
be EHT20	5825	24
be EHT40	5190	20
be EHT40	5230	23
be EHT40	5270	20.5
be EHT40	5310	19
be EHT40	5510	20
be EHT40	5590	20.5
be EHT40	5670	19
be EHT40	5710	20.5

be EHT40	5755	24
be EHT40	5795	24
be EHT80	5210	19.5
be EHT80	5290	18.5
be EHT80	5530	20
be EHT80	5610	20.5
be EHT80	5690	20.5
be EHT80	5775	21.5
be EHT160	5250	16.5
be EHT160	5570	17
be EHT240	5610	16

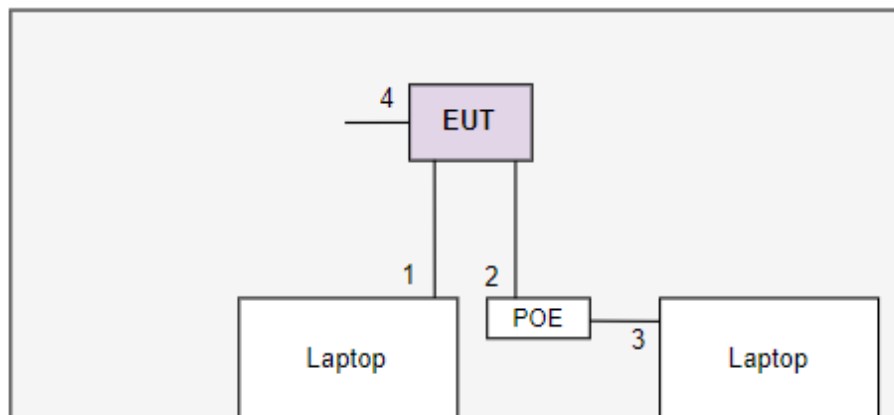
1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Vostro 5410	DoC	---
2	Laptop	DELL	Latitude 5400	DoC	---
3	POE	Zyxel	PoE12-60W	---	For POE mode only. (Provided by applicant.)
4	Adapter	DVE	DSA-24PFS-12 FCA 120200	---	For Adapter mode only. (Provided by applicant.)

1.3 Test Setup Chart



Test Setup Diagram (POE mode)



No.	Signal cable / Length (m)
1-2	RJ45, 10m non-shielded.
3	RJ45, 1.3m non-shielded.
4	Console cable, 0.3m non-shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Dec. 20, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 17, 2023	Feb. 16, 2024
LISN	R&S	ENV216	101579	May 09, 2023	May 08, 2024
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 11, 2023	Oct. 10, 2024
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 03, 2023	Jan. 02, 2024
50 ohm terminal (Support Unit)	NA	50	01	Jun. 14, 2023	Jun. 13, 2024
Measurement Software	Sporton	SENSE-EMI	V5.11.6	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Dec. 12 ~ Dec. 18, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 03, 2023	Mar. 02, 2024
Spectrum Analyzer	R&S	FSV40	101499	Mar. 16, 2023	Mar. 15, 2024
Loop Antenna	R&S	HFH2-Z2	100330	Oct. 31, 2023	Oct. 30, 2024
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jul. 04, 2023	Jul. 03, 2024
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Sep. 01, 2023	Aug. 31, 2024
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 30, 2023	Oct. 29, 2024
Preamplifier	EMC	EMC02325	980187	Jul. 10, 2023	Jul. 09, 2024
Preamplifier	EMC	EMC118A45SE	980897	Aug. 01, 2023	Jul. 31, 2024
Preamplifier	EMC	EMC184045SE	980903	Jul. 17, 2023	Jul. 16, 2024
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 03, 2023	Oct. 02, 2024
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 22, 2023	Sep. 21, 2024
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 22, 2023	Sep. 21, 2024
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 22, 2023	Sep. 21, 2024
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 22, 2023	Sep. 21, 2024
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 22, 2023	Sep. 21, 2024
HIGHPASS FILTER	K&L	11SH10-7000/T18000-O/OP	21	Sep. 27, 2023	Sep. 26, 2024
Attenuator	Pasternack	PE7005-10	10-3	Sep. 27, 2023	Sep. 26, 2024
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Dec. 16 ~ Dec. 26, 2023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 14, 2023	Apr. 13, 2024
Power Meter	Anritsu	ML2495A	1241002	Nov. 21, 2023	Nov. 20, 2024
Power Sensor	Anritsu	MA2411B	1207366	Nov. 21, 2023	Nov. 20, 2024
Attenuator	Pasternack	PE7005-10	10-2	Oct. 05, 2023	Oct. 04, 2024
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Jun. 21, 2023	Jun. 20, 2024
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 16, 2023	Dec. 15, 2024
Measurement Software	Sporton	SENSE-15407_NII	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.96 dB
Unwanted Emission > 1 GHz	± 4.51 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807C
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Non-beamforming mode

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	be EHT20	5240	MCS 0	1, 2
Unwanted Emissions ≤1GHz	be EHT20	5240	MCS 0	1, 2
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	2
	be EHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	be EHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	be EHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	be EHT160	5250 / 5570	MCS 0	
	be EHT240	5610	MCS 0	
Frequency Stability	Un-modulation	5320	---	1, 2
Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	be EHT20	5745	MCS 0	1, 2
Unwanted Emissions ≤1GHz	be EHT20	5745	MCS 0	1, 2
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 6dB bandwidth Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	2
	be EHT20	5745 / 5785 / 5825	MCS 0	
	be EHT40	5755 / 5795	MCS 0	
	be EHT80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	1, 2
NOTE: - The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report. - Beamforming mode is calculated not measured. The calculation method is conducted power of non-beamforming – 3.01 dB. - The EUT had been tested by following test configurations. - Configuration 1: Adapter mode - Configuration 2: POE mode				

Beamforming mode

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Output Power	be EHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	1, 2
	be EHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	be EHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	be EHT160	5250 / 5570	MCS 0	
	be EHT240	5610	MCS 0	
Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Output Power	be EHT20	5745 / 5785 / 5825	MCS 0	1, 2
	be EHT40	5755 / 5795	MCS 0	
	be EHT80	5775	MCS 0	
	be EHT240	5610	MCS 0	
NOTE:				
4. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.				
5. Beamforming mode is calculated not measured. The calculation method is conducted power of non-beamforming – 6.02dB.				
6. The EUT had been tested by following test configurations.				
1) Configuration 1: Adapter mode				
2) Configuration 2: POE mode				

3 Transmitter Test Results

3.1 Emission Bandwidth

3.1.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.1.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

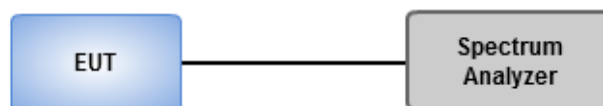
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW $\geq$ 3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	21~22°C / 65~66%	Tested By	Roger Lu
-------------------	------------------	-----------	----------

Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☒	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☐	Client devices	Conducted Power: 250 mW

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
☒	5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
☒	5725 ~ 5850	Conducted Power: 1 W
Note: "B" is the 26dB emission bandwidth in MHz.		

3.2.2 Test Procedures

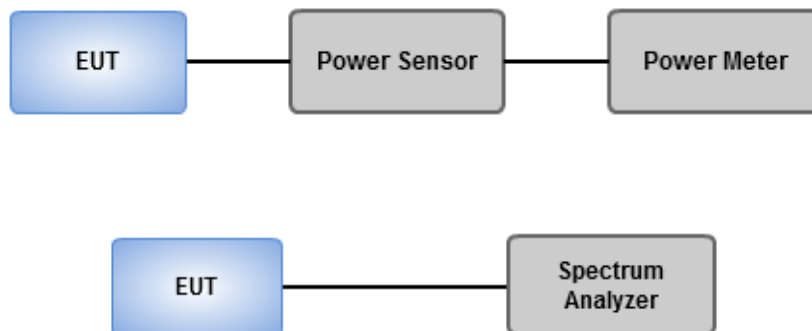
Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)

1. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
2. Trace average at least 100 traces in power averaging mode.
3. Compute power by integrating the spectrum across the 26 dB EBW.
4. Add 10 log(1/X, X:duty cycle) if duty cycle is <98%.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	21~22°C / 65~66%	Tested By	Roger Lu
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Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	17 dBm / MHz
☒	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☐	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz
☒	5725 ~ 5850	30 dBm / 500 kHz

3.3.2 Test Procedures

For 5150 ~ 5250 MHz / 5250 ~ 5350 MHz / 5470 ~ 5725 MHz

Duty cycle $\geq 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle $< 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

For 5725 ~ 5850 MHz

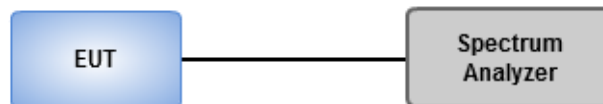
Duty cycle $\geq 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle $< 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	21~22°C / 65~66%	Tested By	Roger Lu
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Refer to Appendix C.

3.4 Unwanted Emissions

3.4.1 Limit of Unwanted Emissions

Restricted Band Emissions 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:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

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 - 5.850 GHz	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

3.4.2 Test Procedures

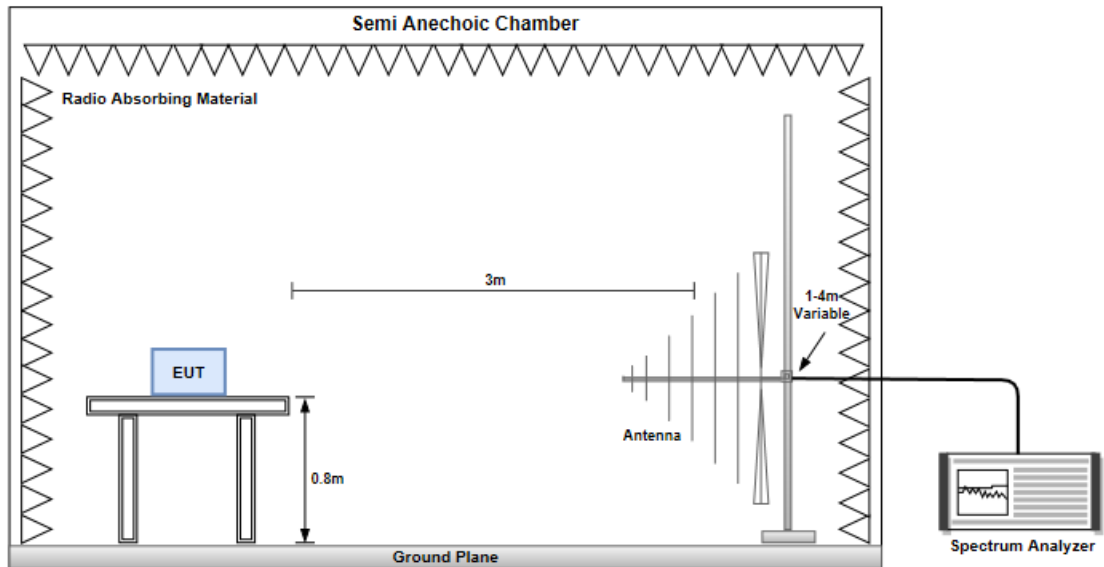
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

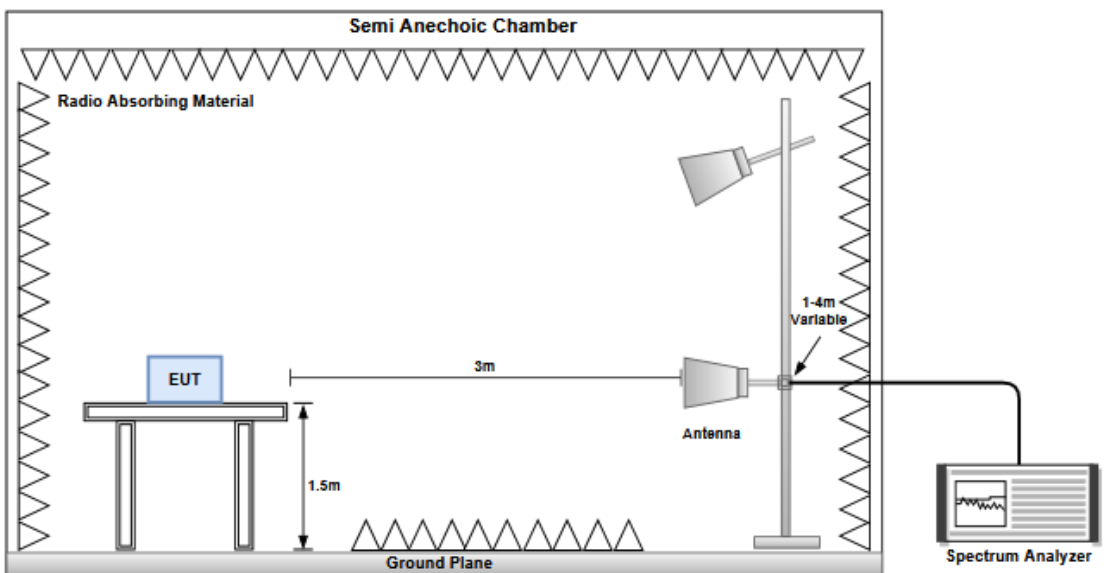
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.4.3 Test Setup

Unwanted Emissions below 1 GHz



Unwanted Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Frequency Stability

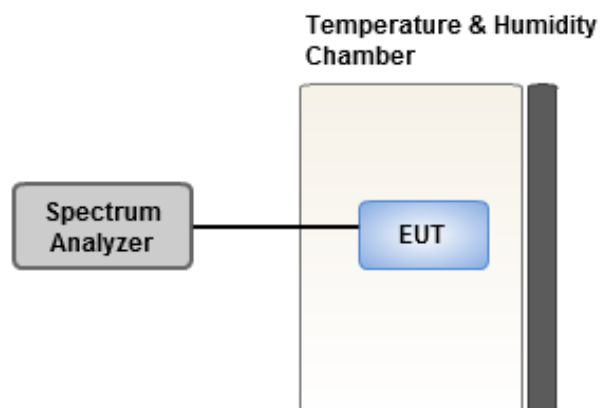
3.5.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.5.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	21~22°C / 65~66%	Tested By	Roger Lu
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

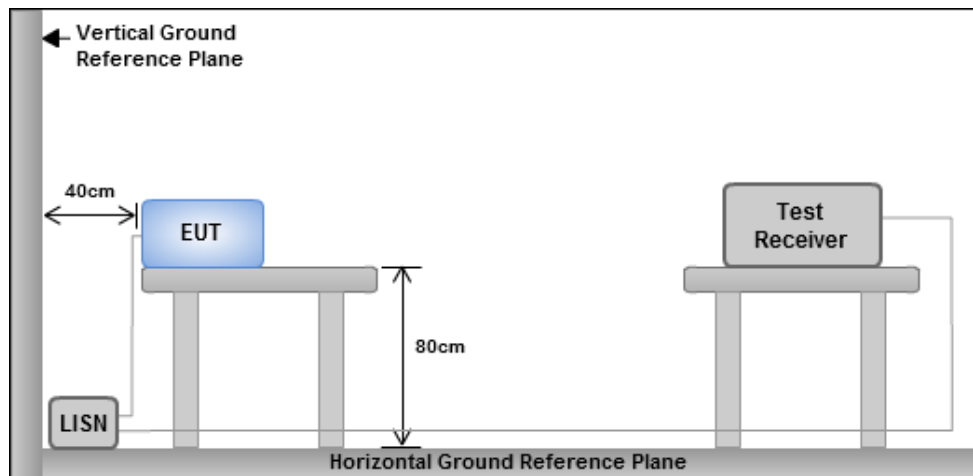
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.6.3 Test Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

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	22.968M	16.938M	16M9D1D	22.044M	16.835M
802.11be EHT20_Nss2,(MCS0)_2TX	23.562M	19.139M	19M1D1D	22.638M	19.07M
802.11be EHT40_Nss2,(MCS0)_2TX	44.616M	38.081M	38M1D1D	43.428M	38.081M
802.11be EHT80_Nss2,(MCS0)_2TX	89.76M	77.961M	78M0D1D	87.648M	77.721M
802.11be EHT160_Nss2,(MCS0)_2TX	84.72M	77.801M	77M8D1D	84.16M	77.721M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.034M	16.888M	16M9D1D	22.176M	16.808M
802.11be EHT20_Nss2,(MCS0)_2TX	23.496M	19.13M	19M1D1D	22.44M	19.04M
802.11be EHT40_Nss2,(MCS0)_2TX	44.484M	38.141M	38M1D1D	43.956M	38.021M
802.11be EHT80_Nss2,(MCS0)_2TX	89.232M	77.961M	78M0D1D	87.912M	77.841M
802.11be EHT160_Nss2,(MCS0)_2TX	88.32M	77.961M	78M0D1D	84.56M	77.721M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.506M	16.888M	16M9D1D	16.02M	13.47M
802.11be EHT20_Nss2,(MCS0)_2TX	23.364M	19.1M	19M1D1D	16.515M	14.53M
802.11be EHT40_Nss2,(MCS0)_2TX	44.484M	38.141M	38M1D1D	36.89M	33.886M
802.11be EHT80_Nss2,(MCS0)_2TX	89.232M	77.841M	77M8D1D	78.75M	73.486M
802.11be EHT160_Nss2,(MCS0)_2TX	175.296M	157.361M	157MD1D	172.656M	157.121M
be240_240MHz_Nss2,(MCS0)_2TX	241.815M	232.064M	232MD1D	239.7M	231.829M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.302M	16.993M	17M0D1D	3.16M	4.253M
802.11be EHT20_Nss2,(MCS0)_2TX	19.074M	19.16M	19M2D1D	4.46M	4.596M
802.11be EHT40_Nss2,(MCS0)_2TX	38.28M	38.141M	38M1D1D	4.08M	4.488M
802.11be EHT80_Nss2,(MCS0)_2TX	78.144M	77.961M	78M0D1D	4.08M	6.07M
be240_240MHz_Nss2,(MCS0)_2TX	4.08M	30.765M	30M8D1D	4.08M	28.036M

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 / Minimum 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	22.11M	16.835M	22.11M	16.861M
5200MHz	Pass	Inf	22.968M	16.888M	22.242M	16.914M
5240MHz	Pass	Inf	22.902M	16.938M	22.044M	16.923M
5260MHz	Pass	Inf	22.176M	16.835M	22.176M	16.888M
5300MHz	Pass	Inf	22.374M	16.808M	22.902M	16.888M
5320MHz	Pass	Inf	22.242M	16.835M	23.034M	16.861M
5500MHz	Pass	Inf	22.374M	16.861M	22.506M	16.888M
5580MHz	Pass	Inf	22.308M	16.861M	22.176M	16.888M
5700MHz	Pass	Inf	22.44M	16.835M	22.176M	16.861M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.08M	13.47M	16.02M	13.518M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	4.321M	3.16M	4.253M
5745MHz	Pass	500k	16.302M	16.861M	16.302M	16.888M
5785MHz	Pass	500k	16.302M	16.888M	16.302M	16.888M
5825MHz	Pass	500k	16.302M	16.94M	16.302M	16.993M
802.11be EHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	23.034M	19.1M	22.638M	19.07M
5200MHz	Pass	Inf	23.034M	19.07M	22.902M	19.07M
5240MHz	Pass	Inf	23.562M	19.139M	23.298M	19.097M
5260MHz	Pass	Inf	22.506M	19.13M	23.166M	19.1M
5300MHz	Pass	Inf	22.638M	19.07M	23.298M	19.07M
5320MHz	Pass	Inf	22.44M	19.04M	23.496M	19.07M
5500MHz	Pass	Inf	22.968M	19.07M	23.364M	19.1M
5580MHz	Pass	Inf	22.704M	19.07M	23.034M	19.07M
5700MHz	Pass	Inf	22.902M	19.07M	22.968M	19.07M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.515M	14.53M	16.62M	14.531M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	4.596M	4.52M	4.616M
5745MHz	Pass	500k	19.008M	19.07M	19.074M	19.07M
5785MHz	Pass	500k	19.074M	19.1M	19.008M	19.1M
5825MHz	Pass	500k	19.008M	19.13M	19.074M	19.16M
802.11be EHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	43.692M	38.081M	43.824M	38.081M
5230MHz	Pass	Inf	44.616M	38.081M	43.428M	38.081M
5270MHz	Pass	Inf	44.22M	38.141M	44.484M	38.021M
5310MHz	Pass	Inf	44.22M	38.081M	43.956M	38.081M
5510MHz	Pass	Inf	43.956M	38.081M	43.296M	38.081M
5590MHz	Pass	Inf	43.824M	38.141M	43.824M	38.081M
5670MHz	Pass	Inf	44.484M	38.021M	43.956M	38.021M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	37.1M	33.892M	36.89M	33.886M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.14M	4.552M	4.08M	4.488M
5755MHz	Pass	500k	38.016M	38.081M	38.148M	38.081M
5795MHz	Pass	500k	38.28M	38.141M	38.016M	38.081M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11be EHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	89.76M	77.961M	87.648M	77.721M
5290MHz	Pass	Inf	89.232M	77.961M	87.912M	77.841M
5530MHz	Pass	Inf	88.176M	77.841M	88.44M	77.841M
5610MHz	Pass	Inf	88.968M	77.841M	89.232M	77.841M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	78.75M	73.495M	79.2M	73.486M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.08M	6.28M	4.1M	6.07M
5775MHz	Pass	500k	78.144M	77.961M	78.144M	77.721M
802.11be EHT160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	84.16M	77.721M	84.72M	77.801M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	88.32M	77.961M	84.56M	77.721M
5570MHz	Pass	Inf	175.296M	157.361M	172.656M	157.121M
be240_240MHz_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5610MHz Straddle 5.47-5.725GHz	Pass	Inf	241.815M	231.829M	239.7M	232.064M
5610MHz Straddle 5.725-5.85GHz	Pass	500k	4.08M	30.765M	4.08M	28.036M

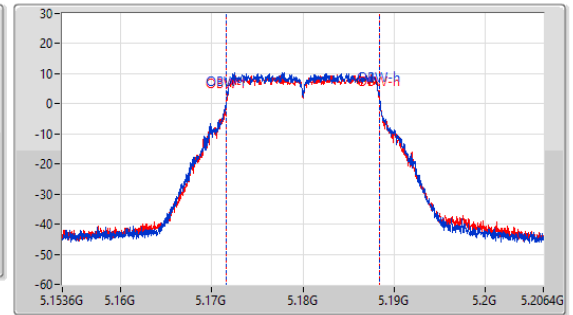
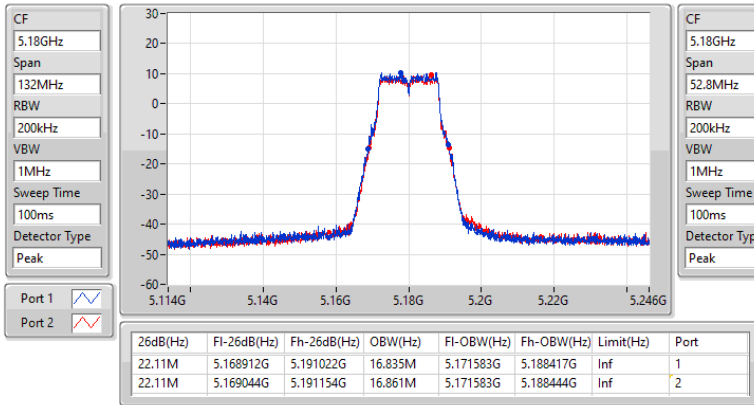
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

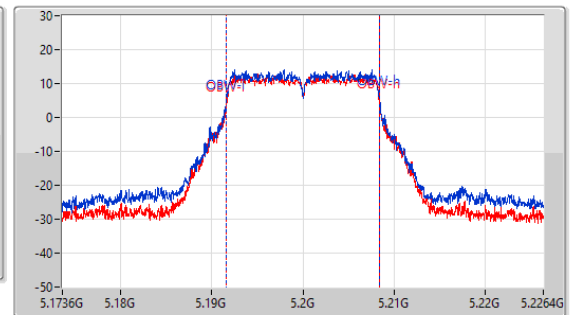
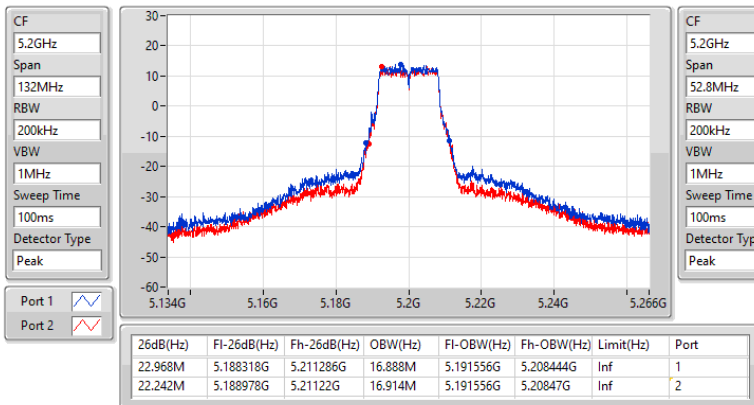
5180MHz



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

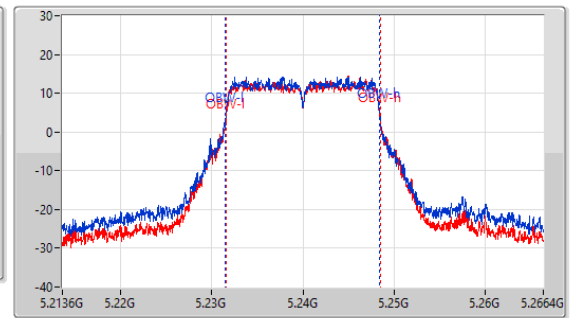
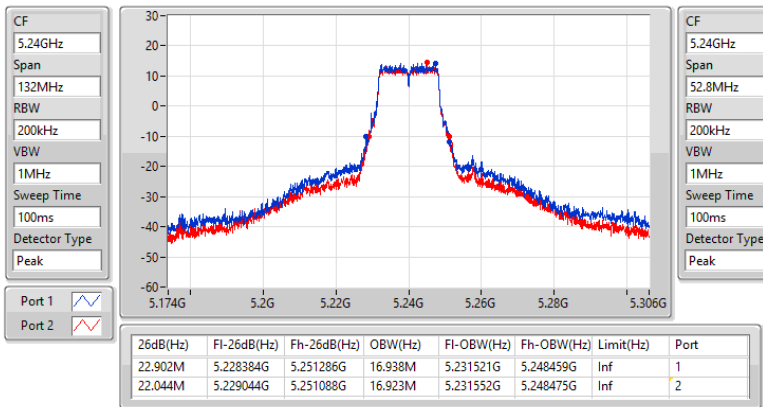
5200MHz



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

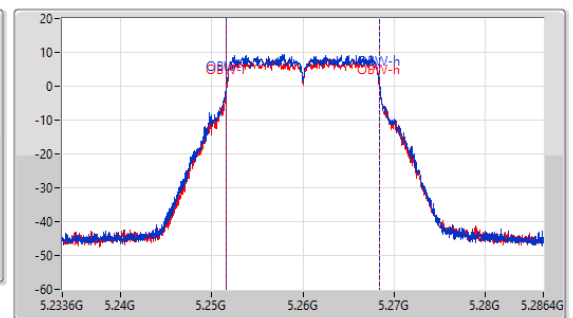
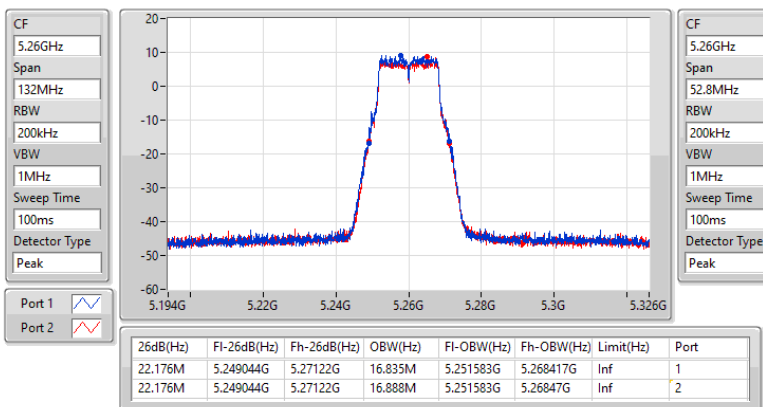
5240MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

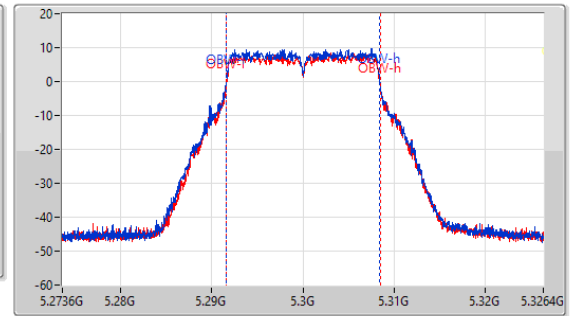
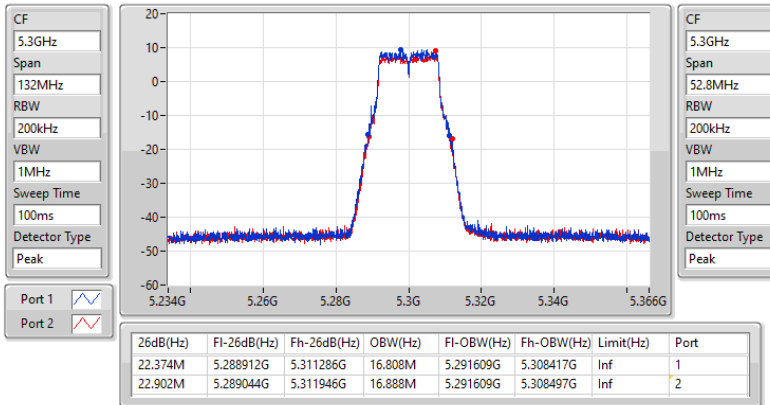
5260MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

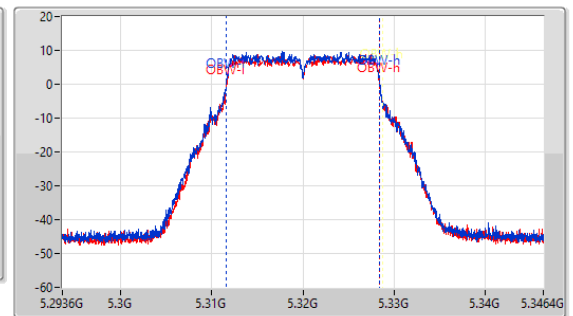
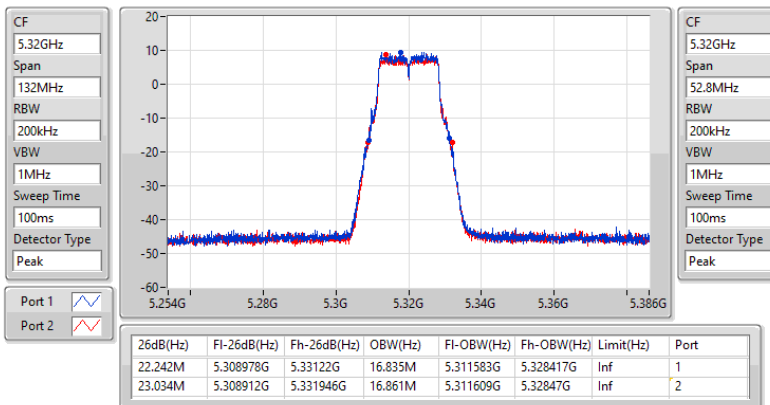
5300MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

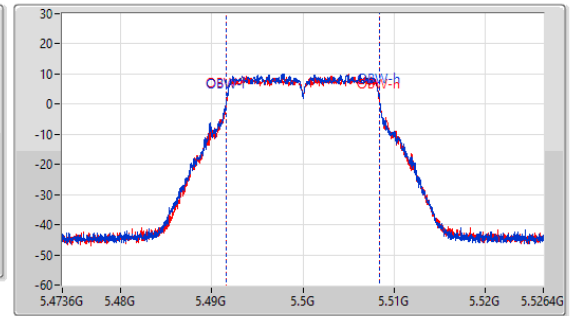
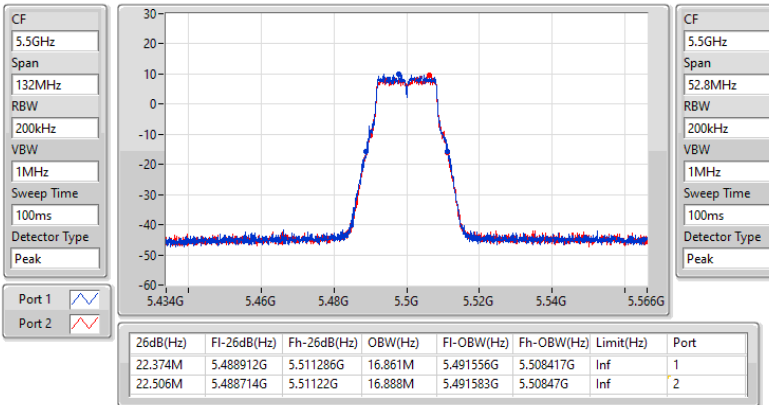
5320MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

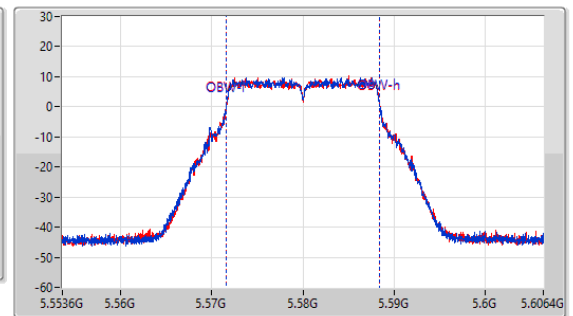
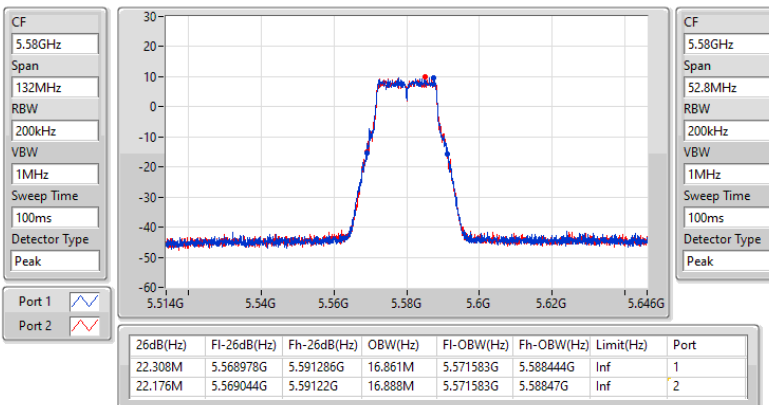
5500MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

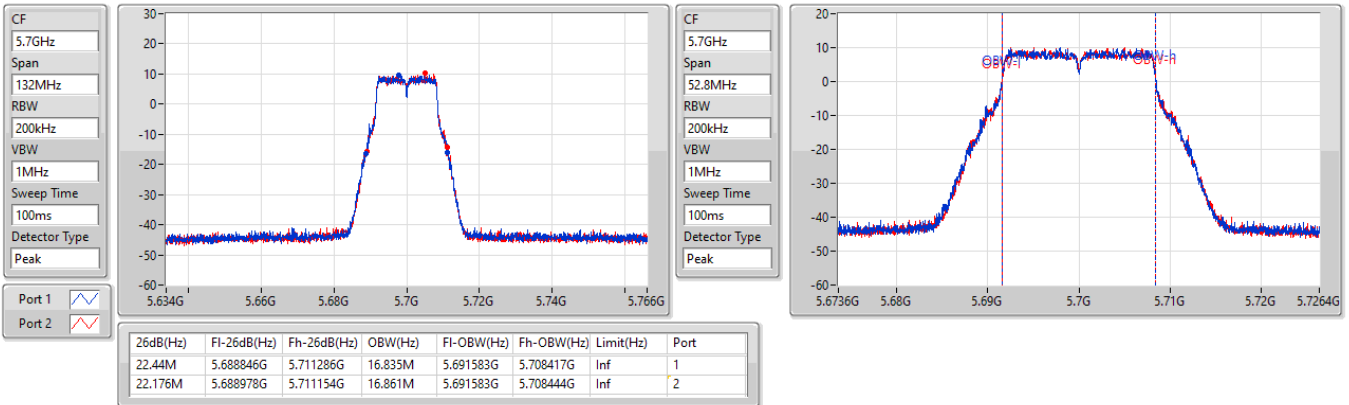
5580MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

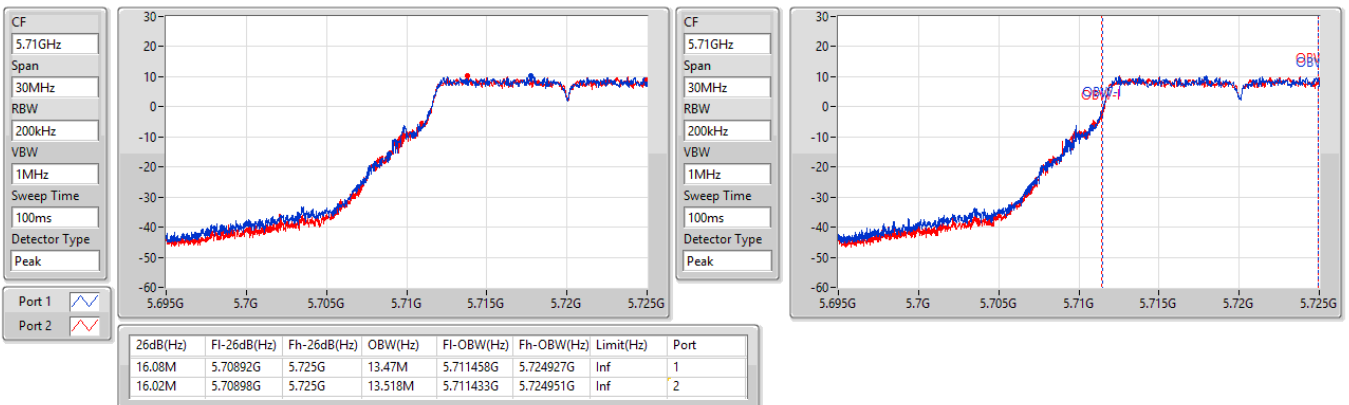
5700MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

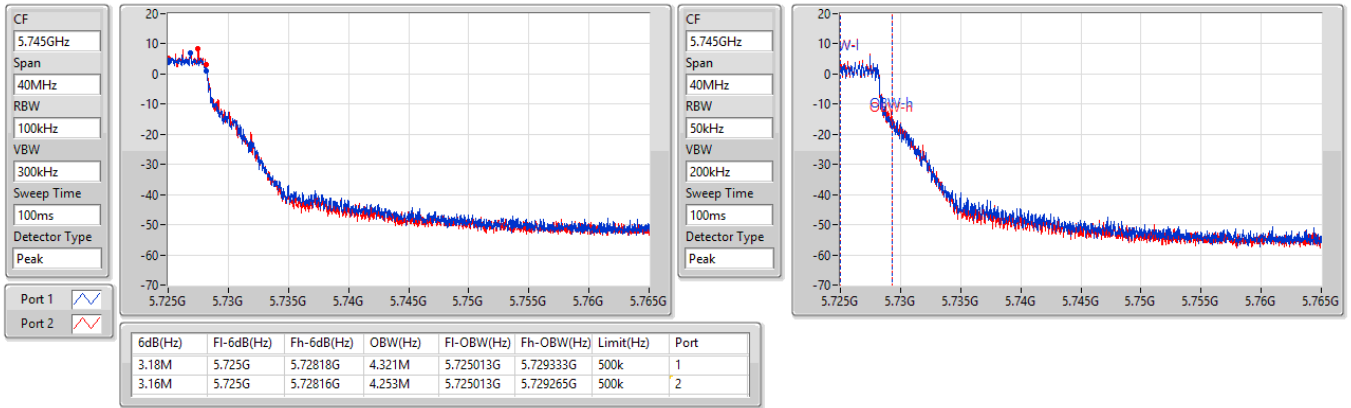
5720MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

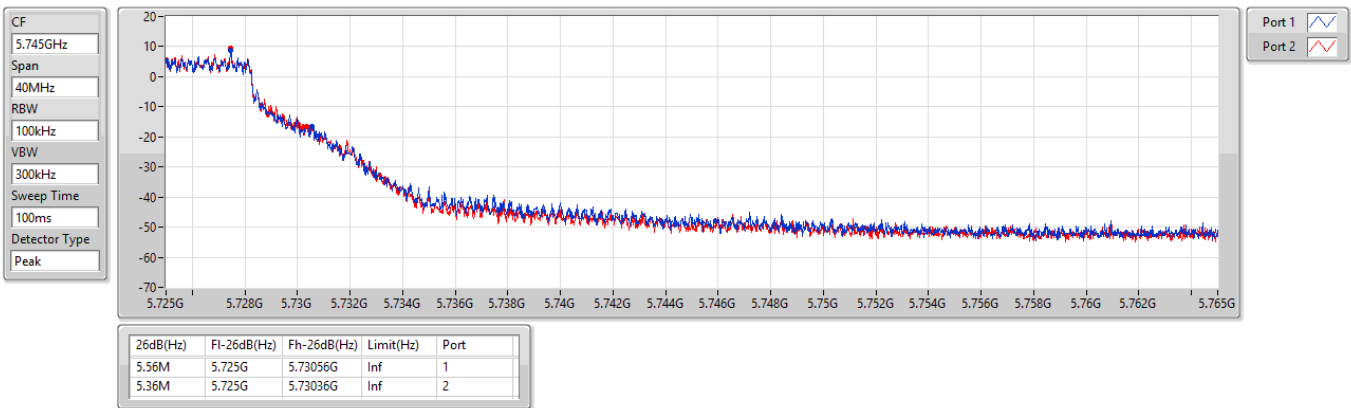
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

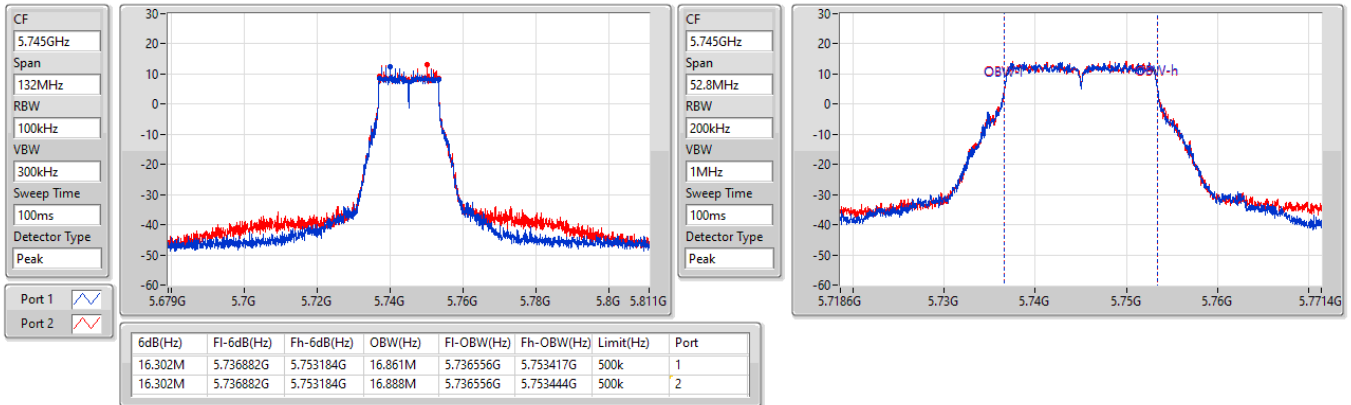
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

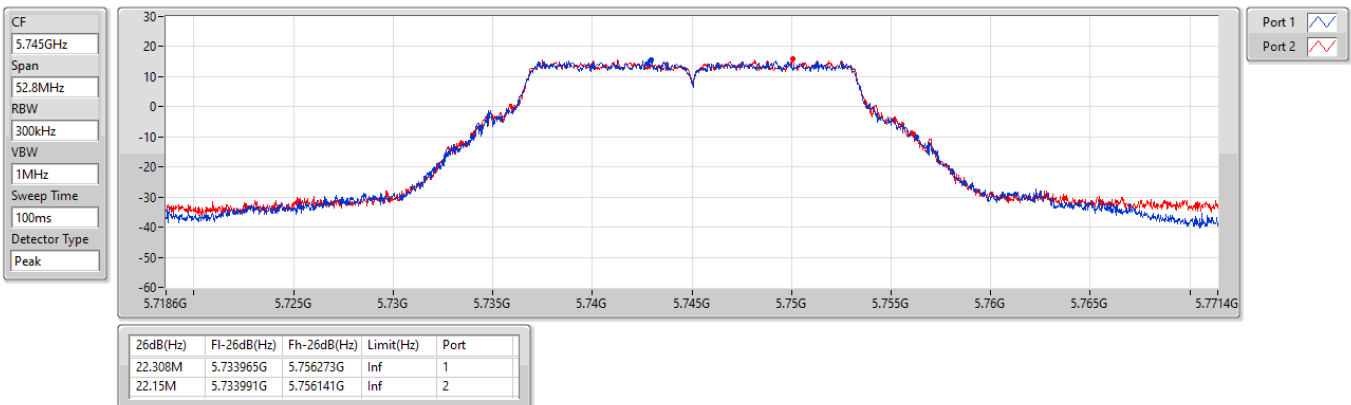
5745MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

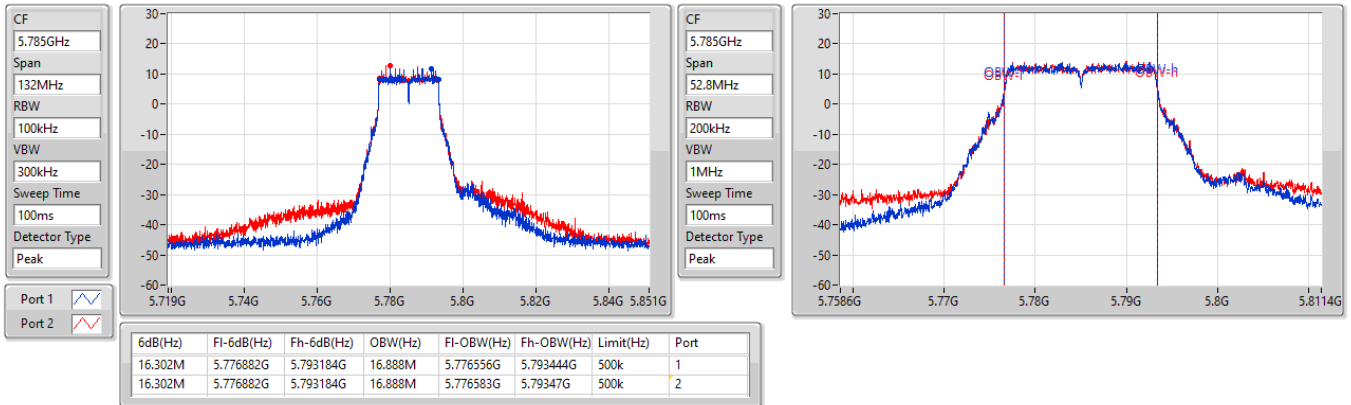




5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

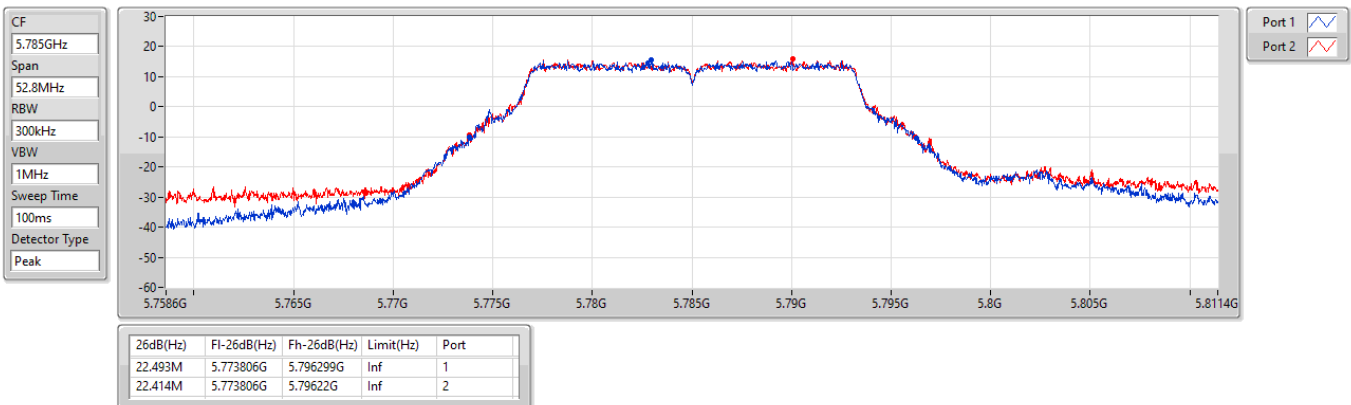
5785MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

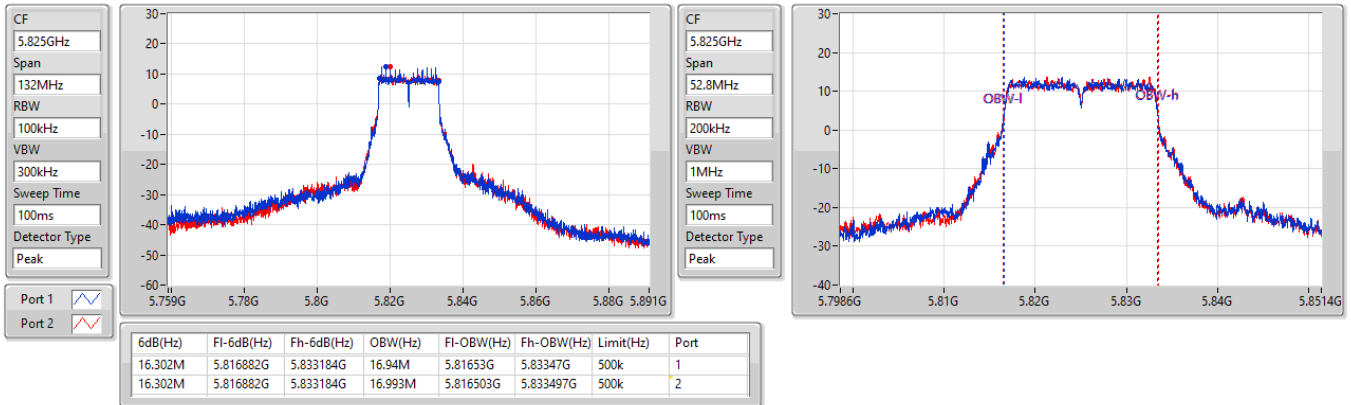
5785MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

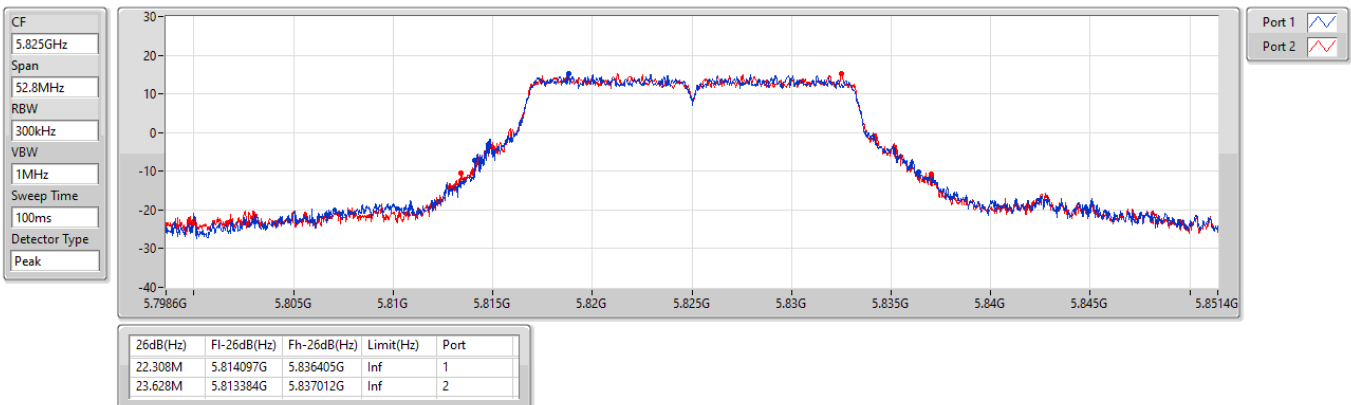
5825MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

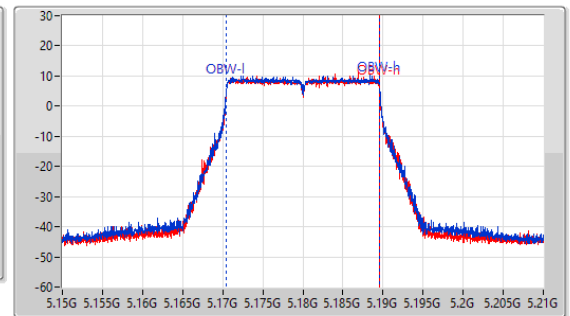
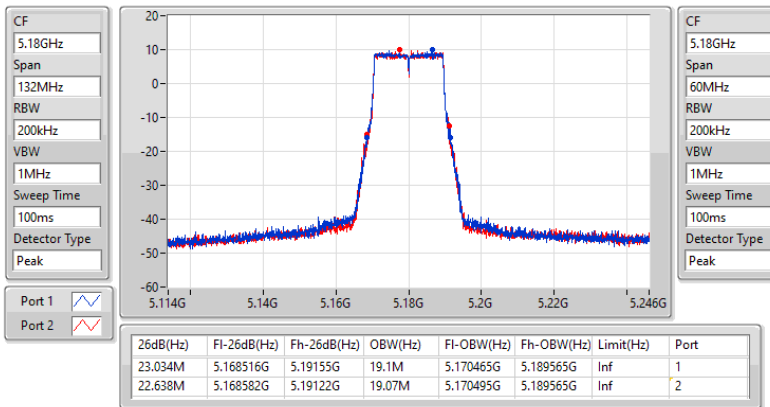
5825MHz



5.15-5.25GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

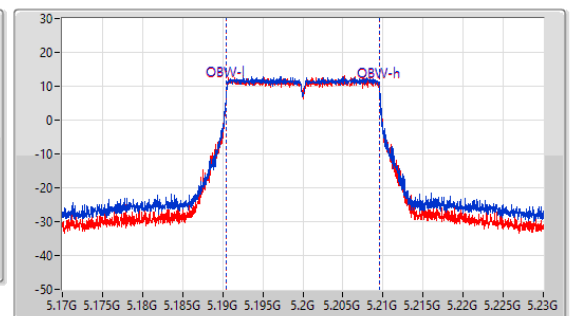
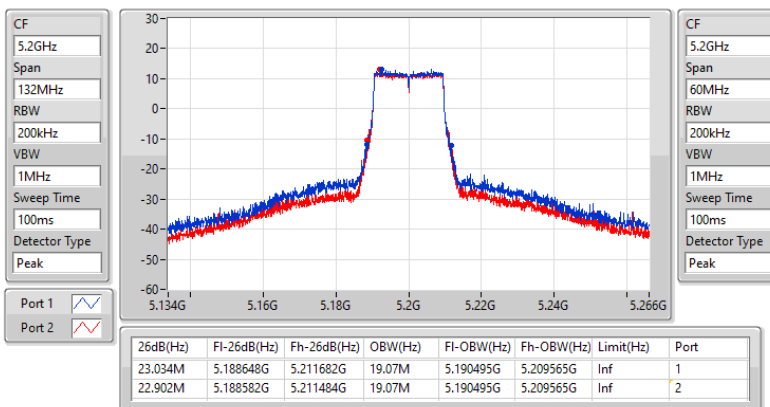
5180MHz



5.15-5.25GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

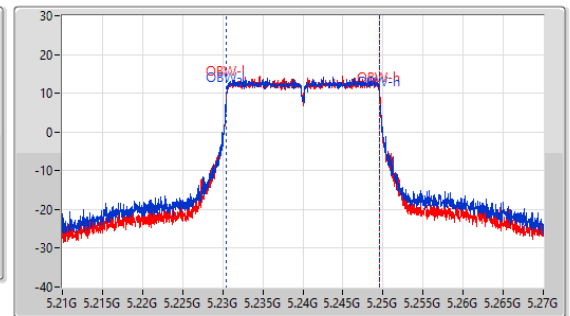
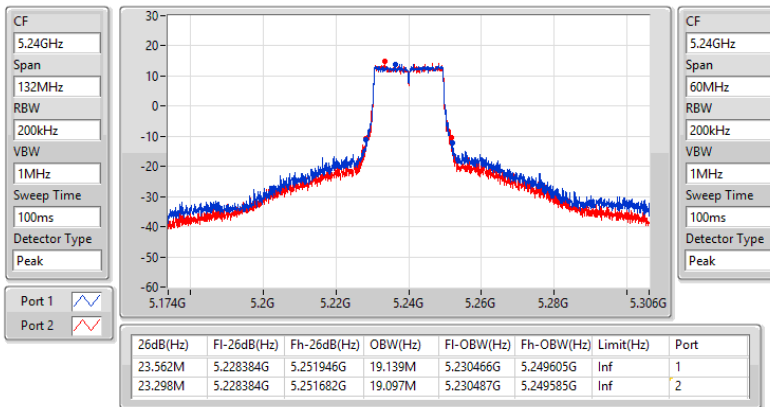
5200MHz



5.15-5.25GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

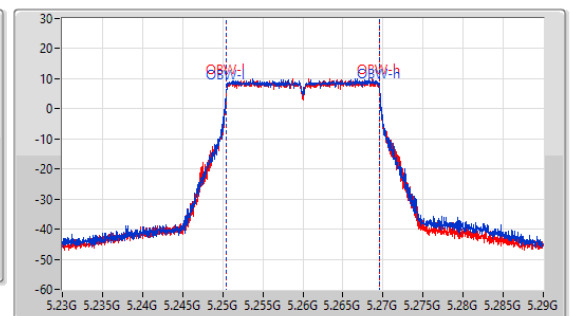
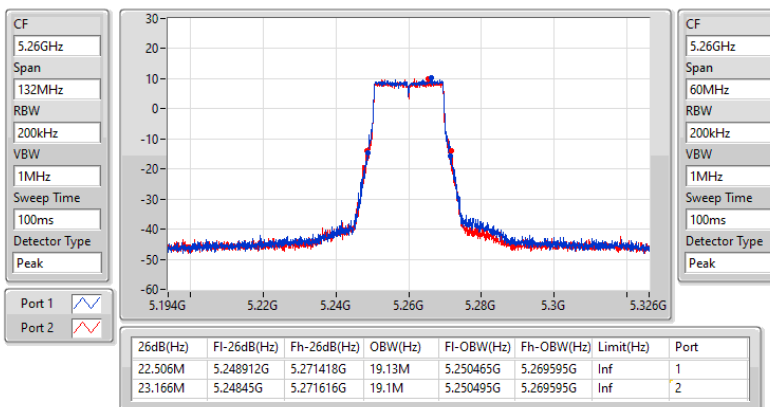
5240MHz



5.25-5.35GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

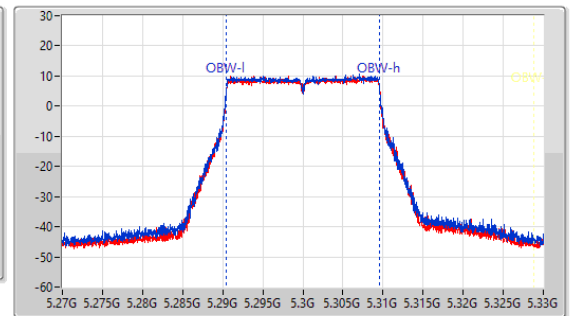
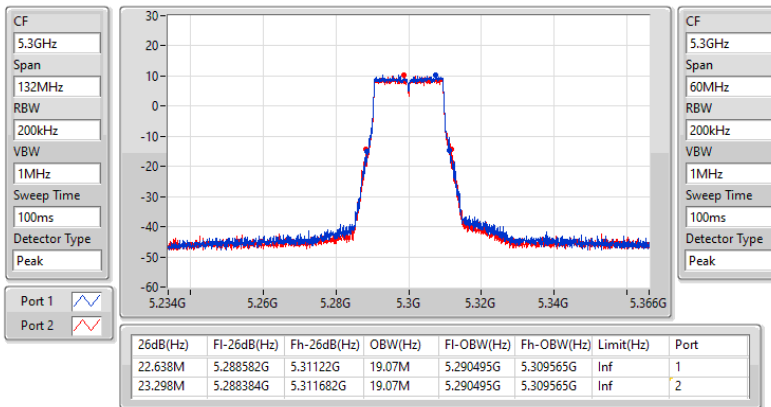
5260MHz



5.25-5.35GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

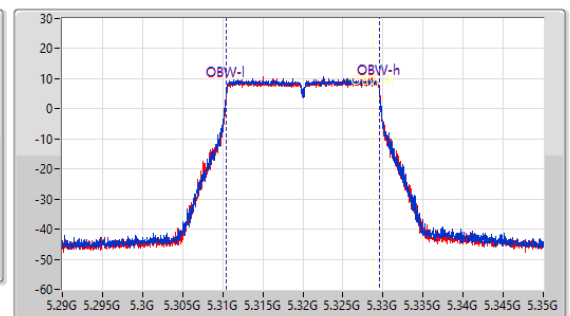
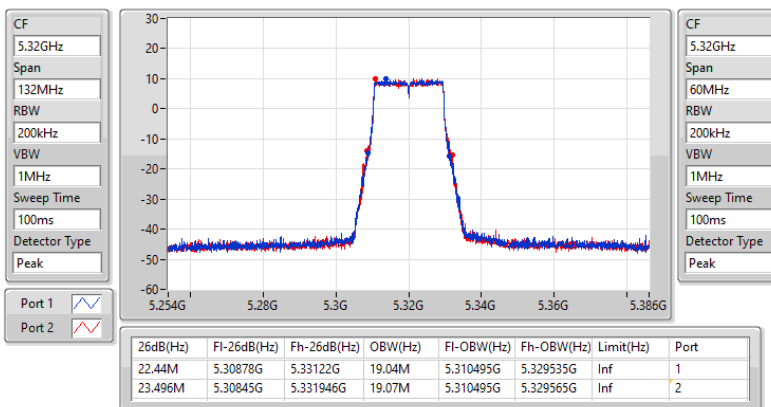
5300MHz



5.25-5.35GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

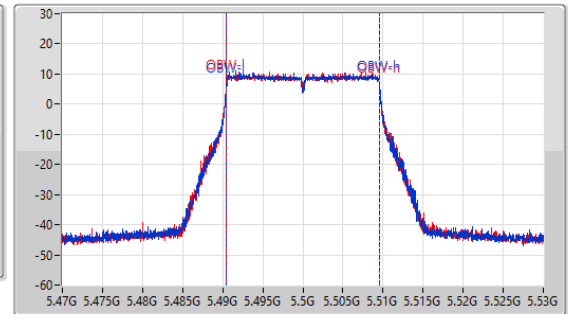
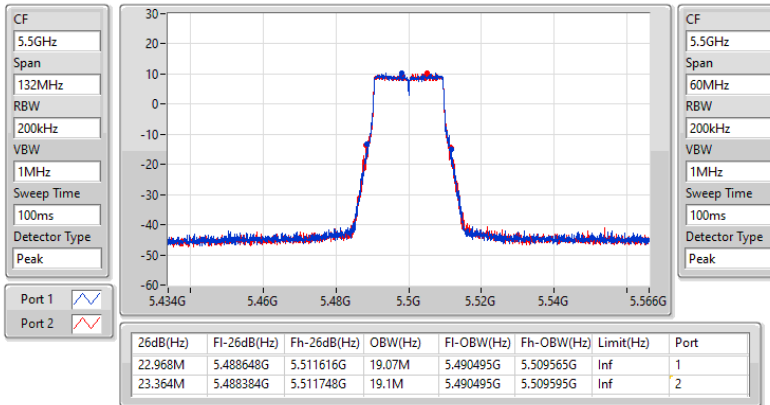
5320MHz



5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

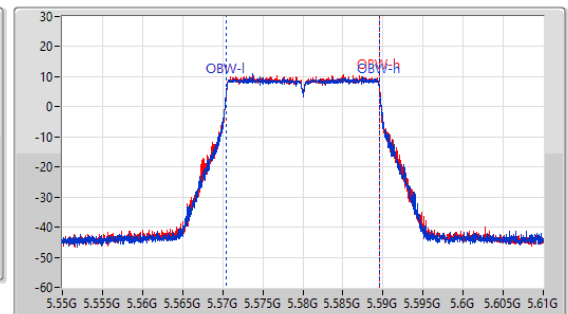
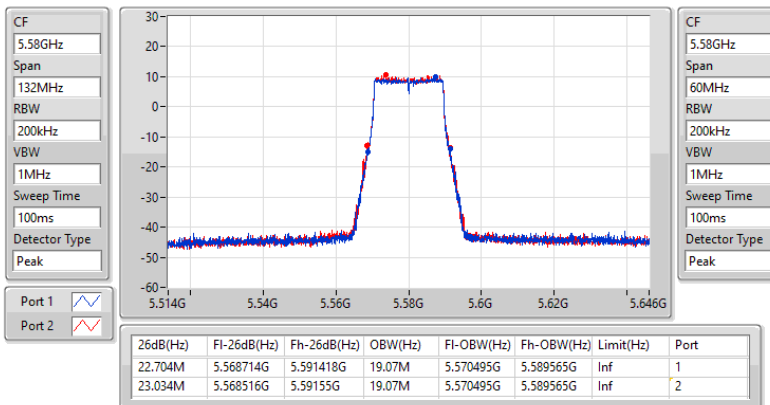
5500MHz



5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

5580MHz

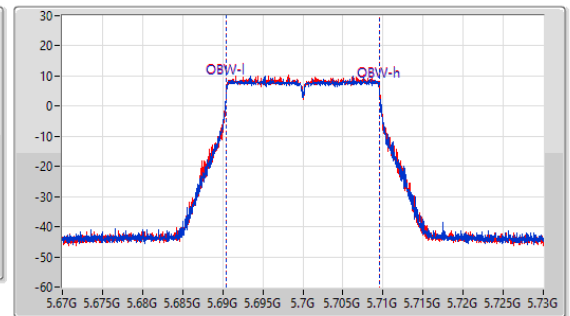
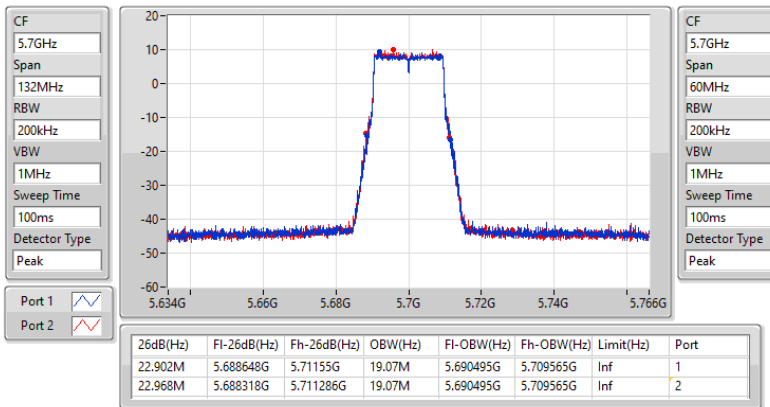




5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

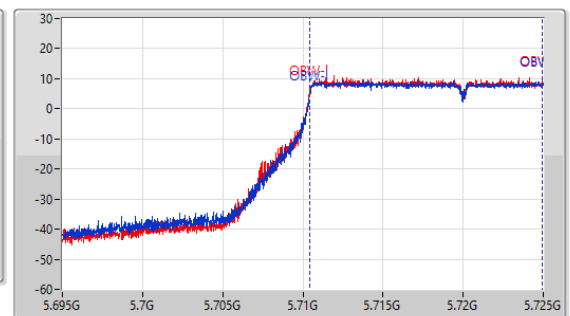
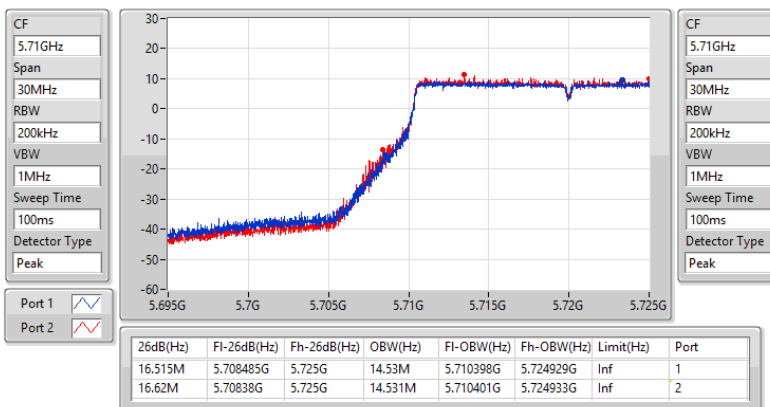
5700MHz



5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

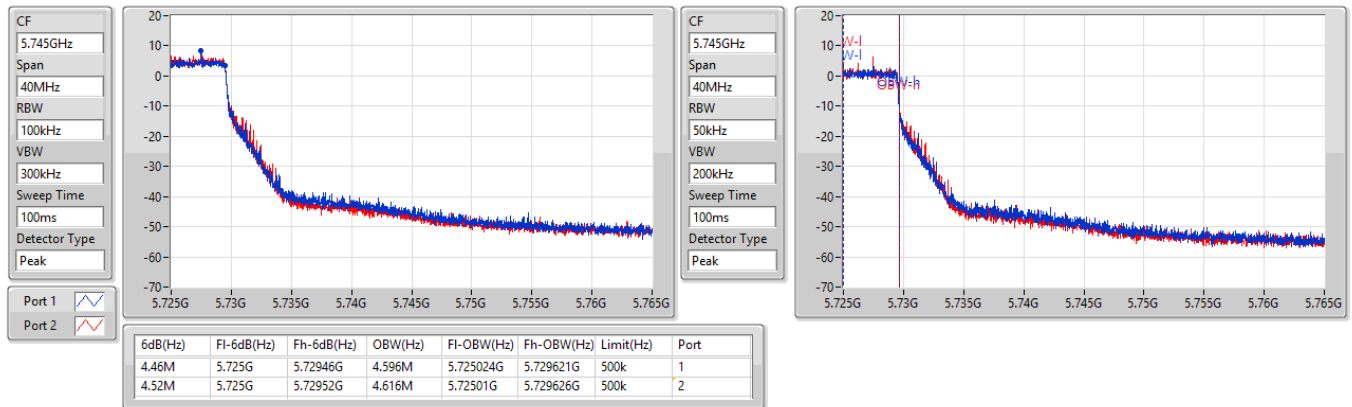
5720MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

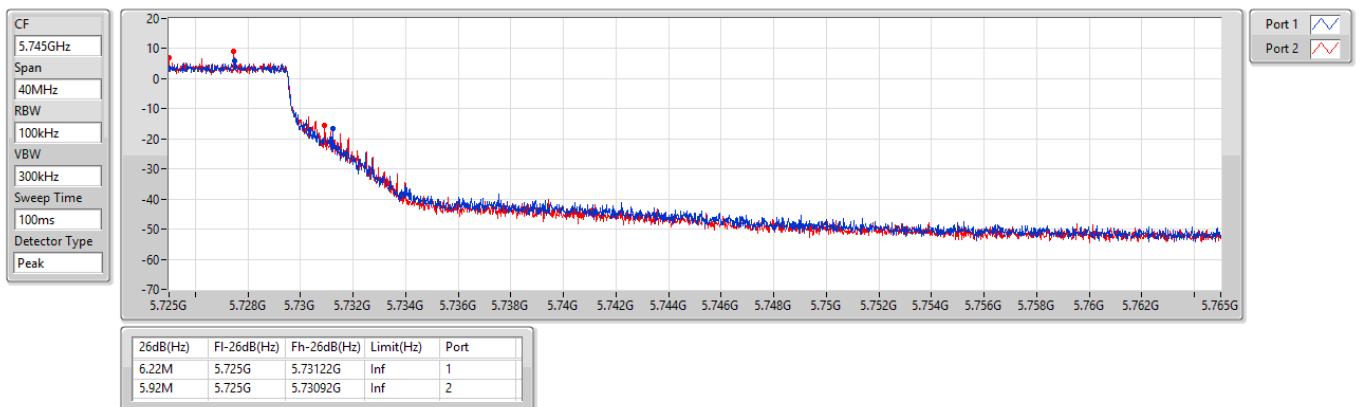
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

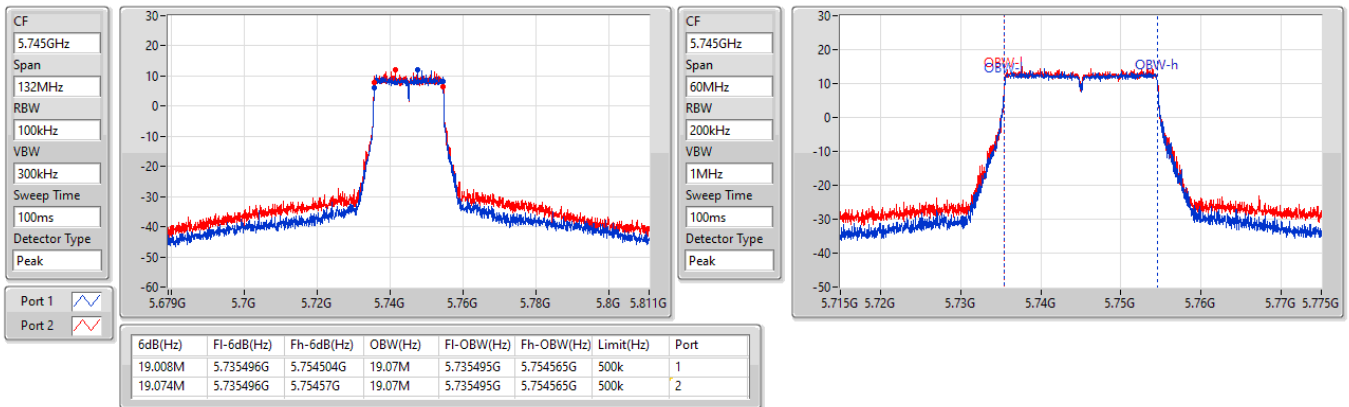
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

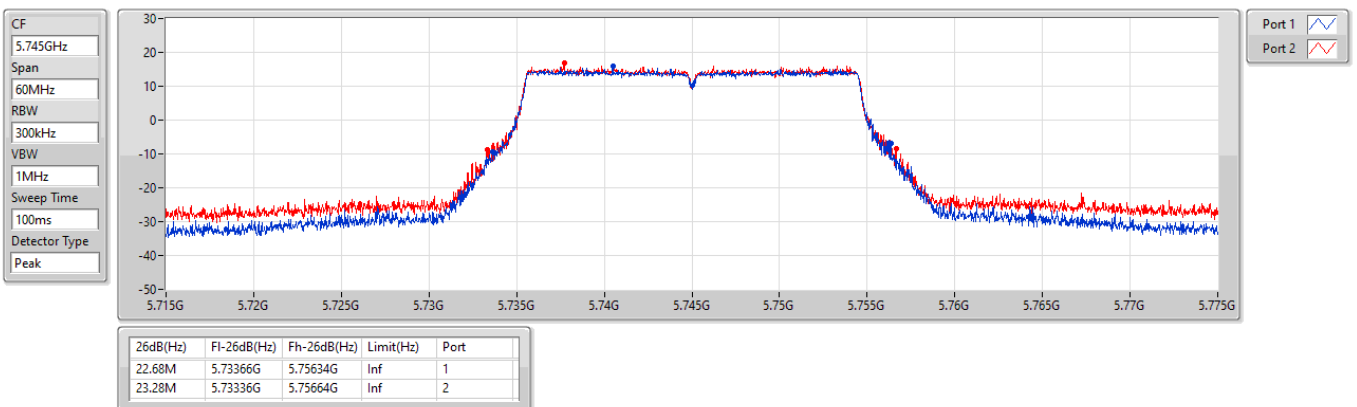
5745MHz



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

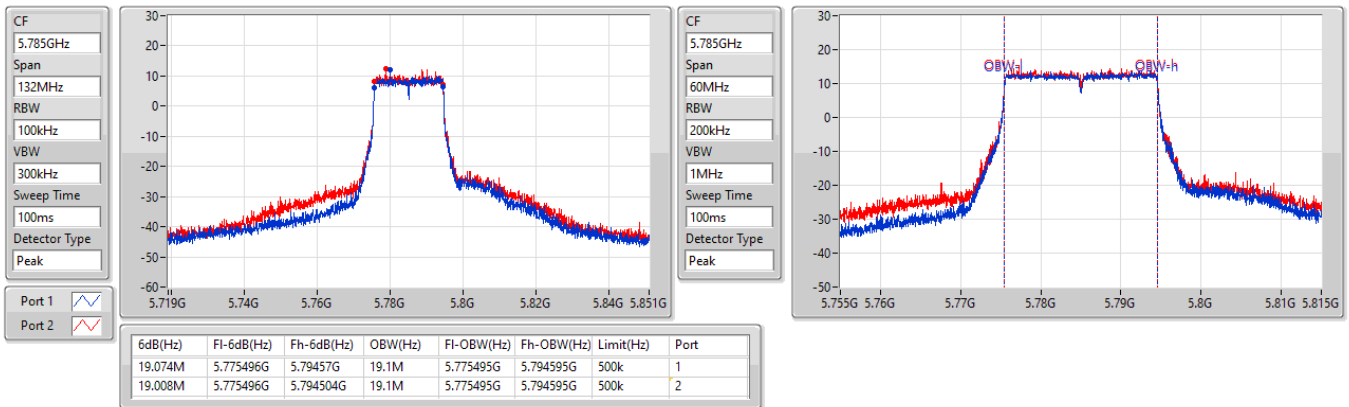
5745MHz



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

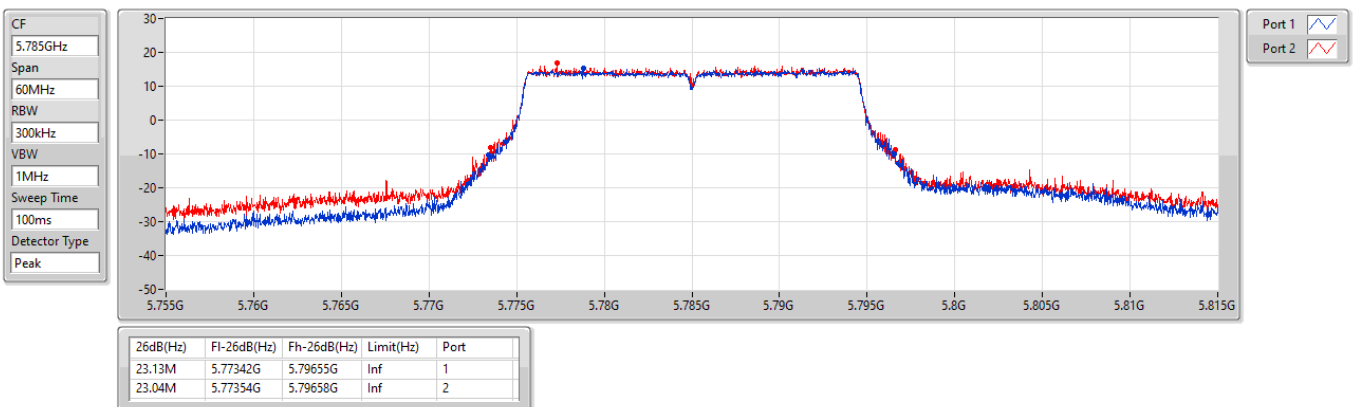
5785MHz



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

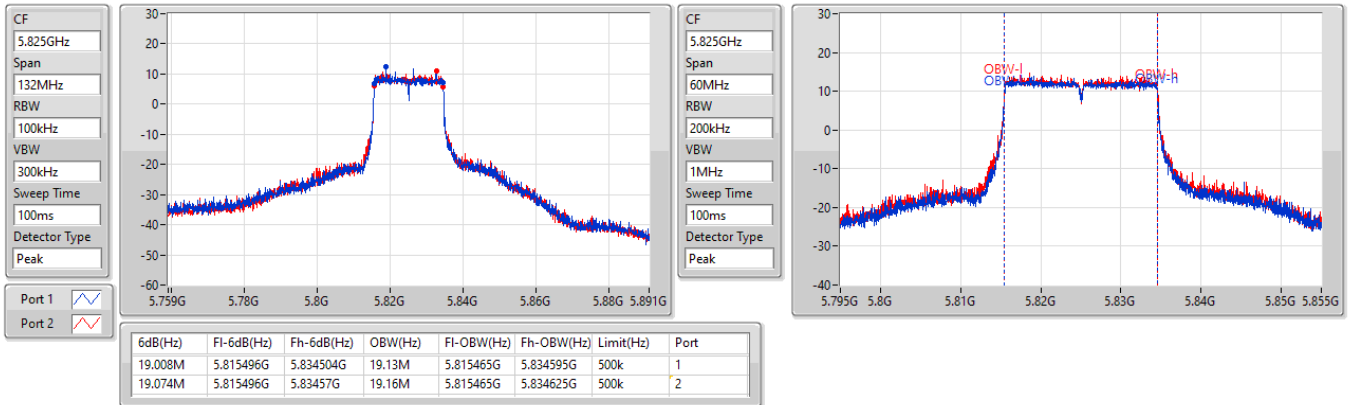
5785MHz



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

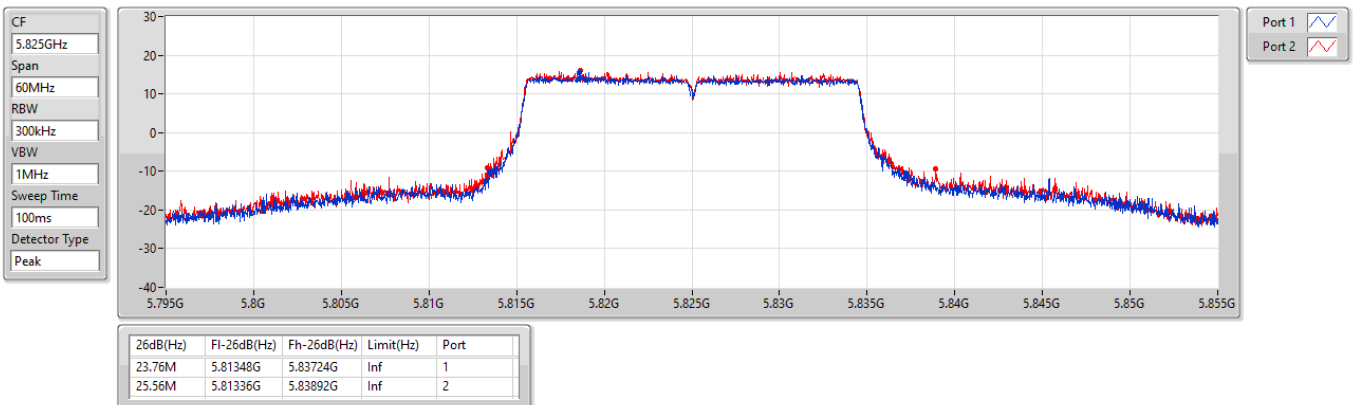
5825MHz



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

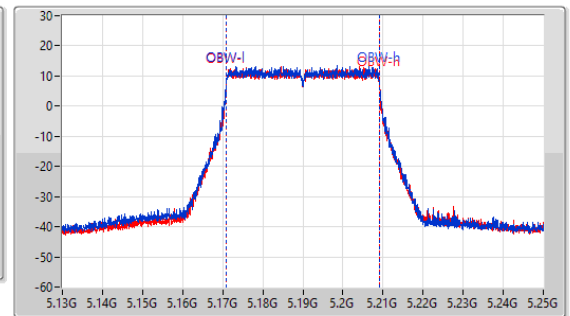
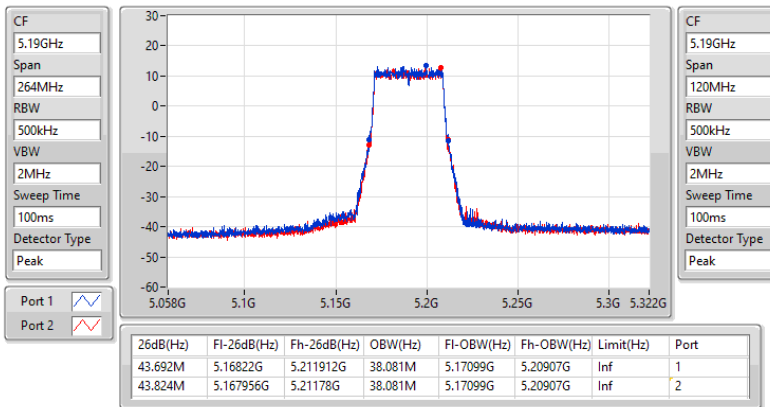
5825MHz



5.15-5.25GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

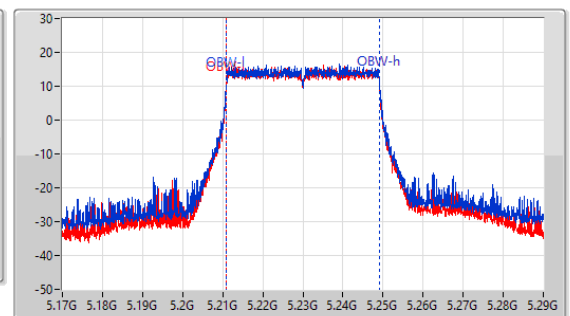
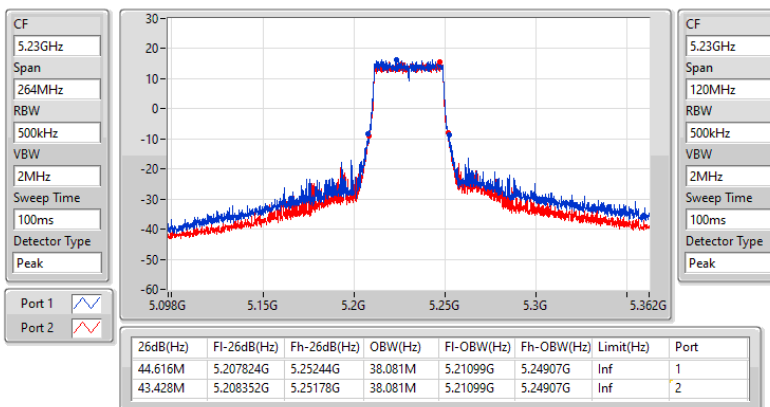
5190MHz



5.15-5.25GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

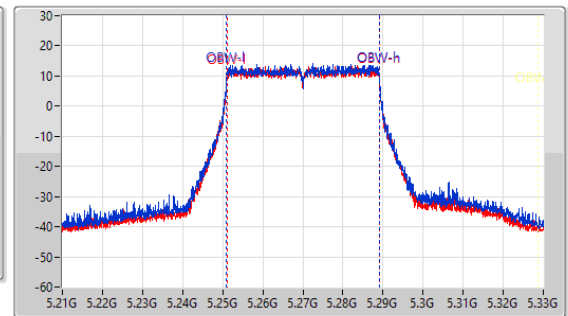
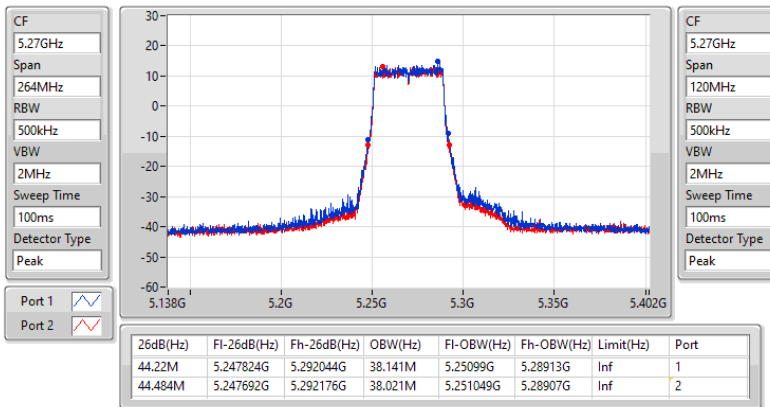
5230MHz



5.25-5.35GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

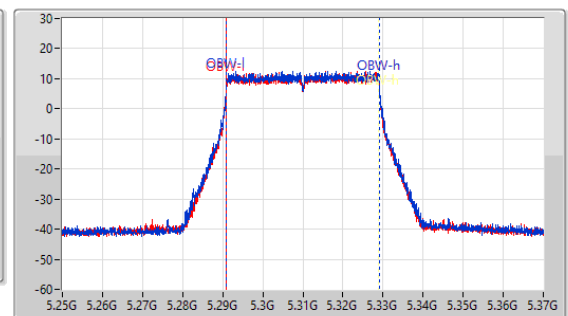
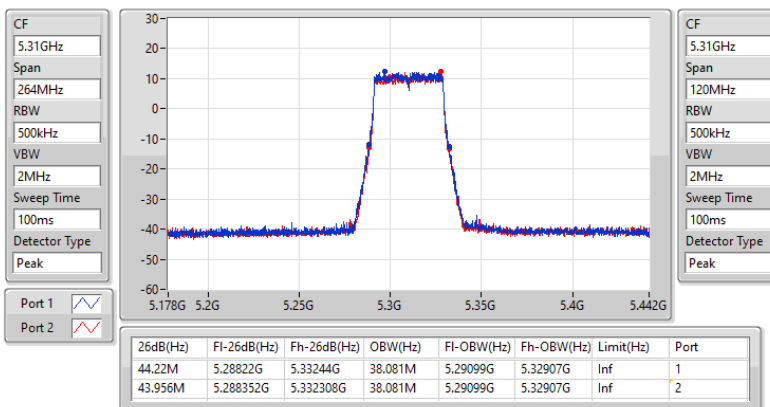
5270MHz



5.25-5.35GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

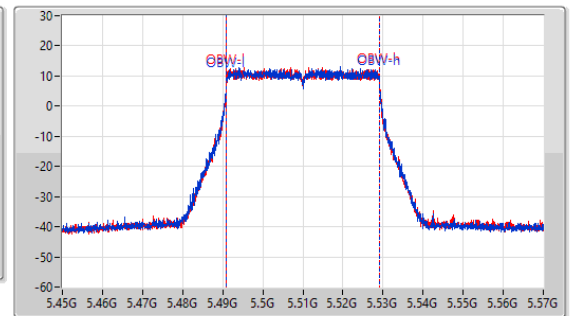
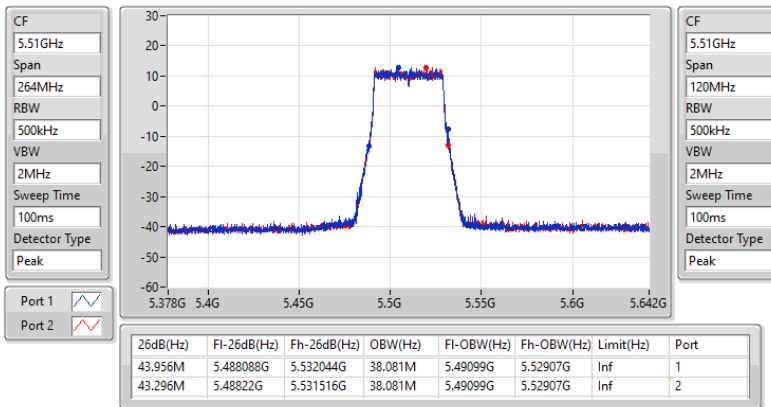
5310MHz



5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

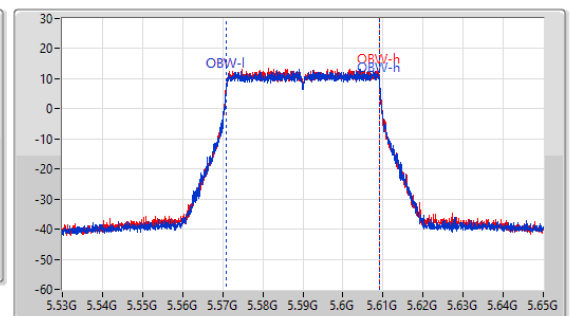
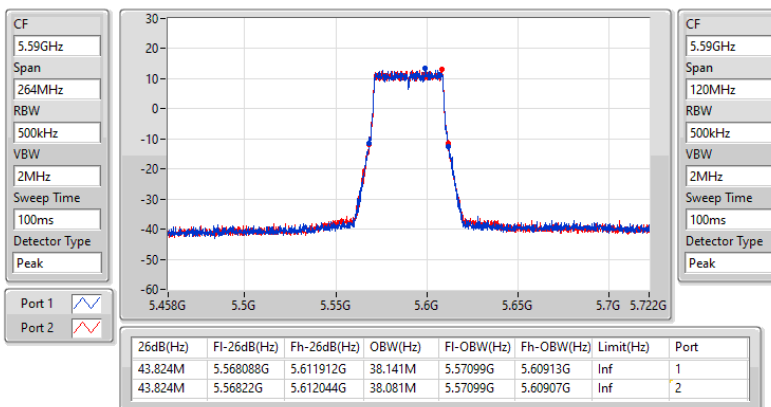
5510MHz



5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

5590MHz

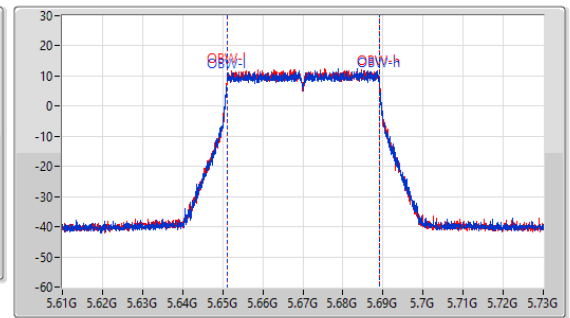
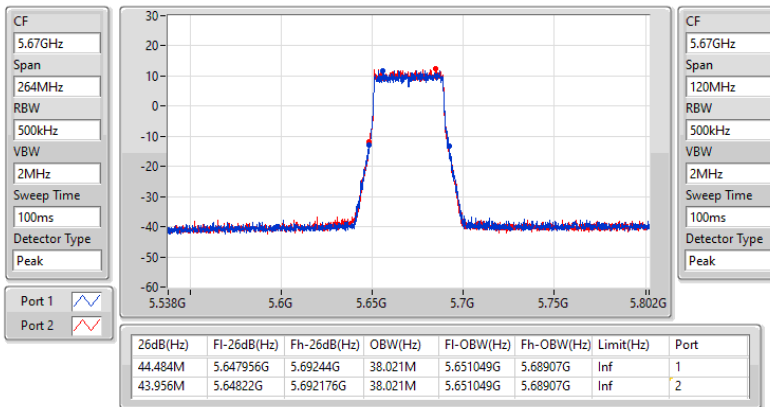




5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

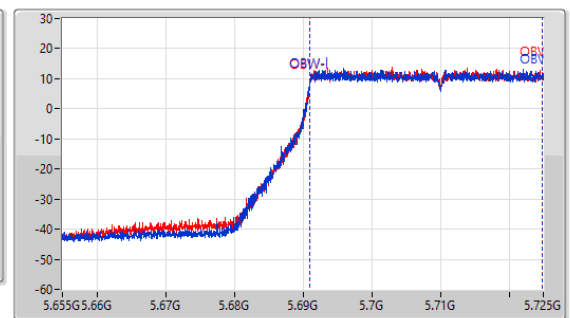
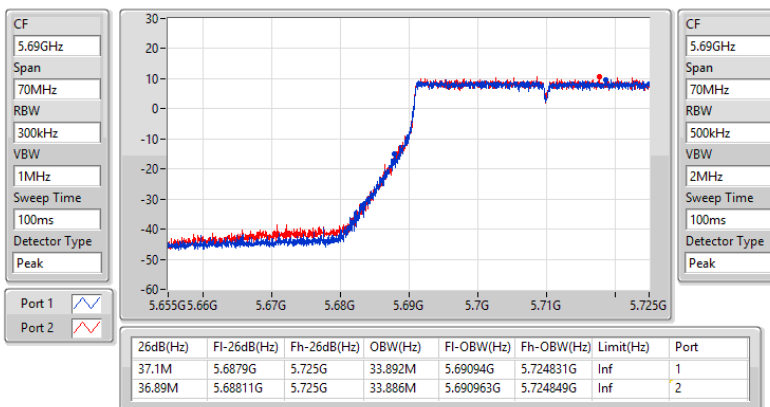
5670MHz



5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

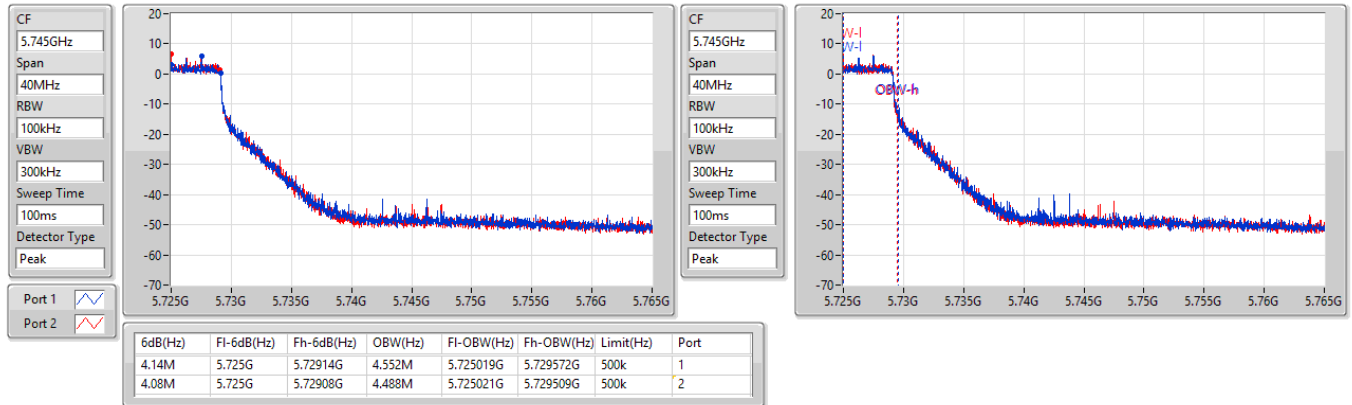
5710MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

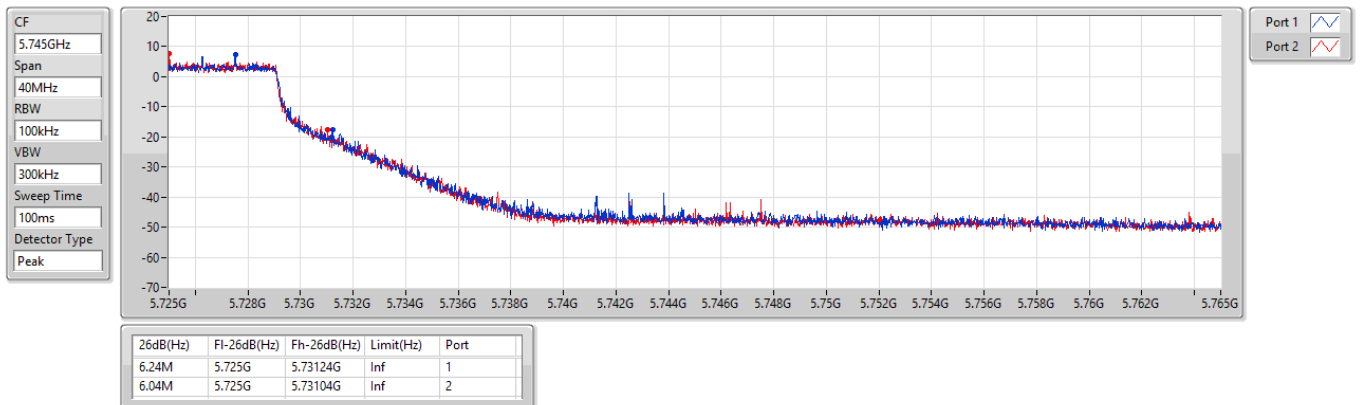
5710MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

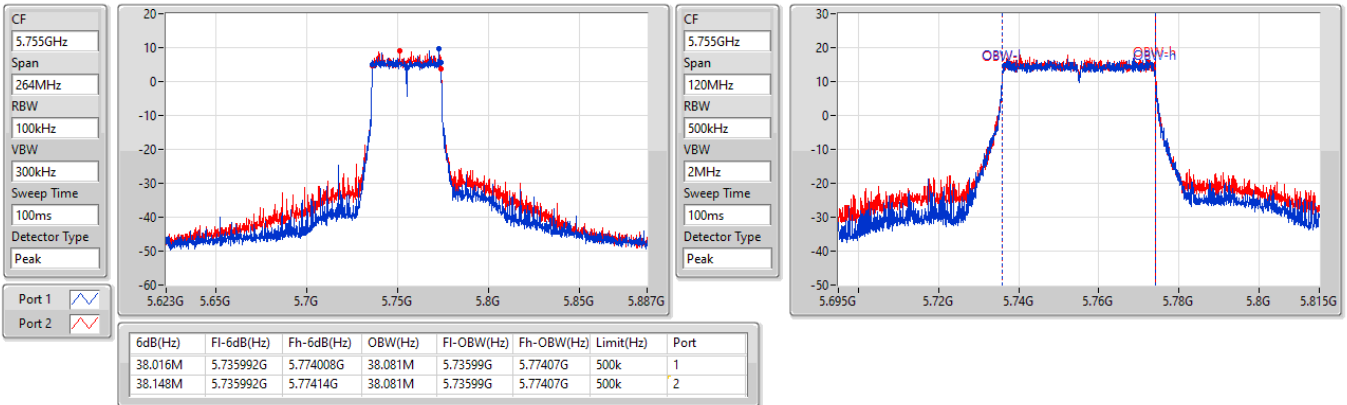
5710MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

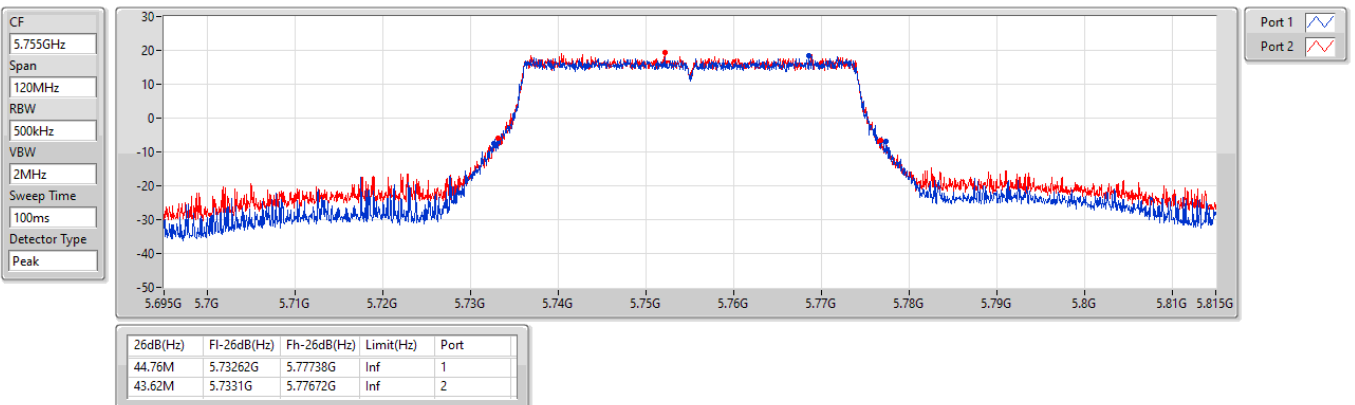
5755MHz



5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

5755MHz

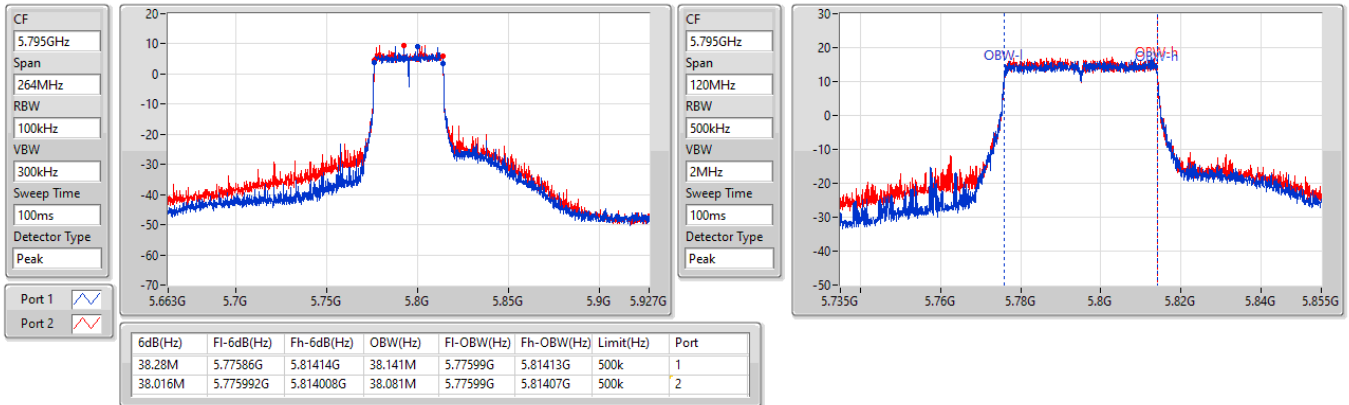




5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

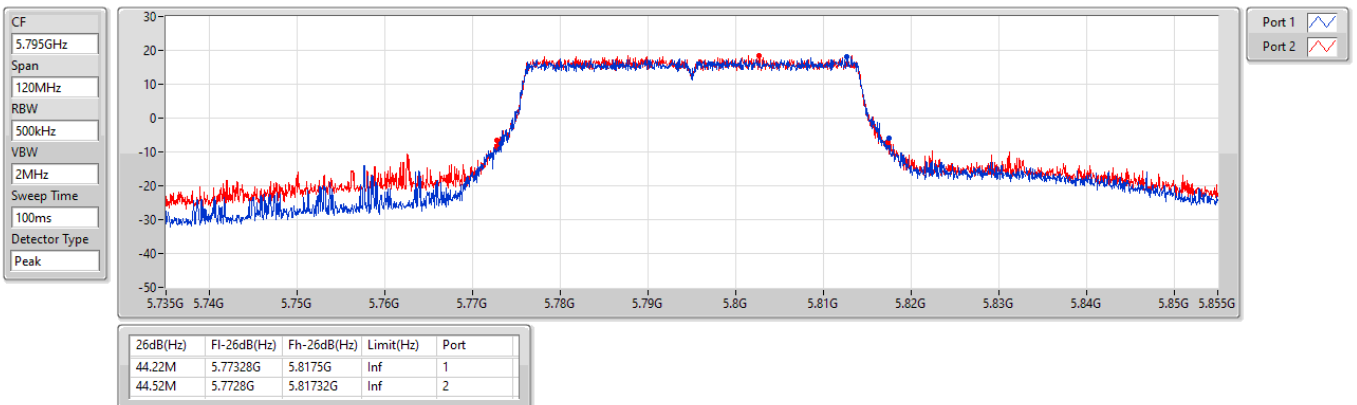
5795MHz



5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

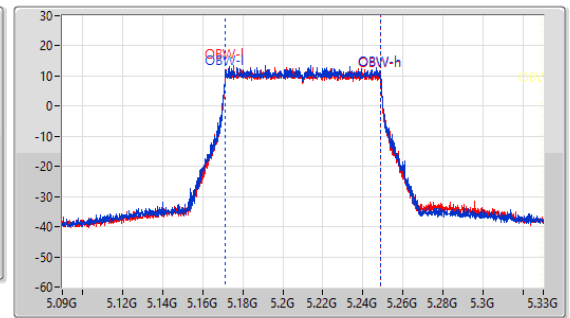
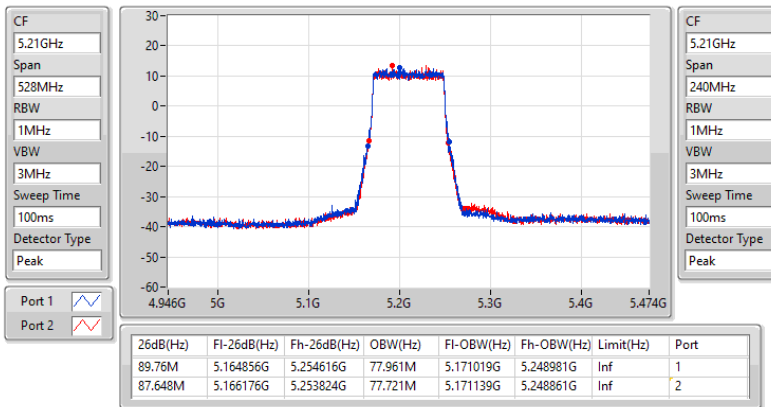
5795MHz



5.15-5.25GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

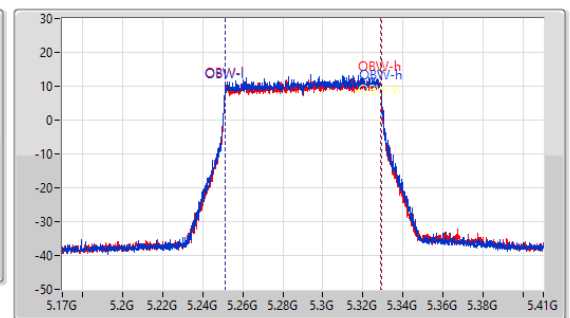
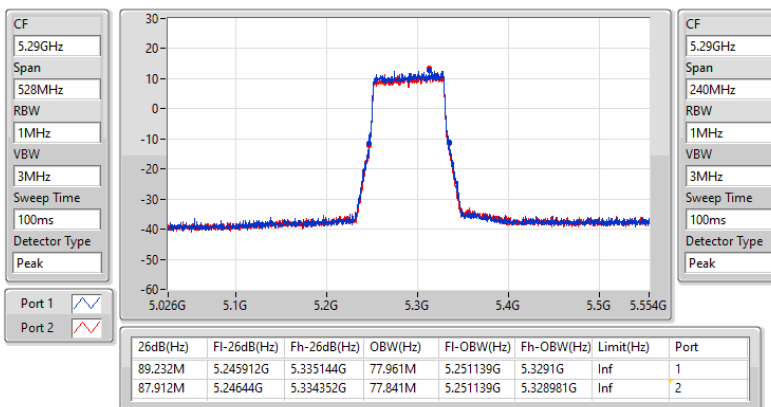
5210MHz



5.25-5.35GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

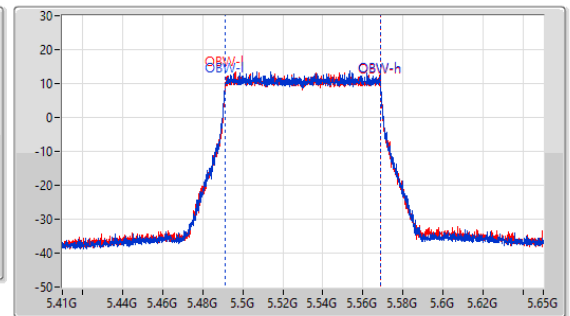
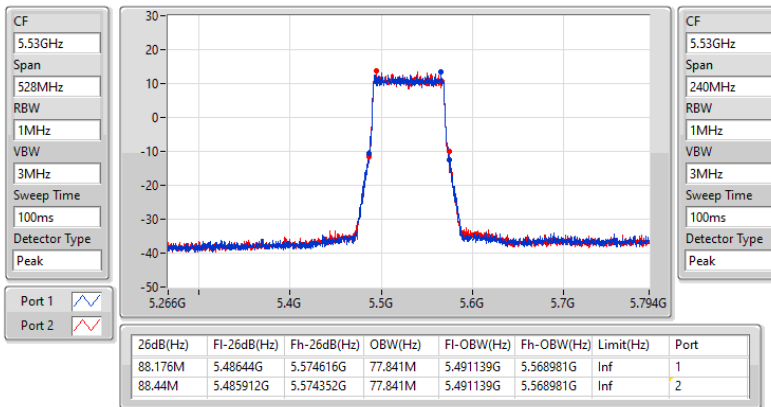
5290MHz



5.47-5.725GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

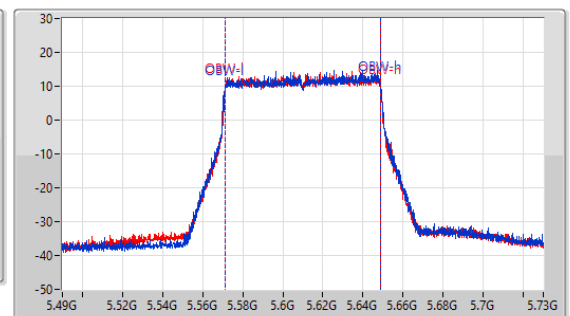
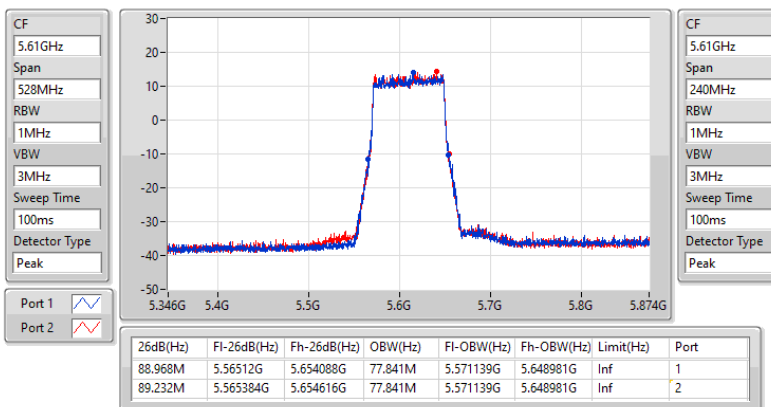
5530MHz



5.47-5.725GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

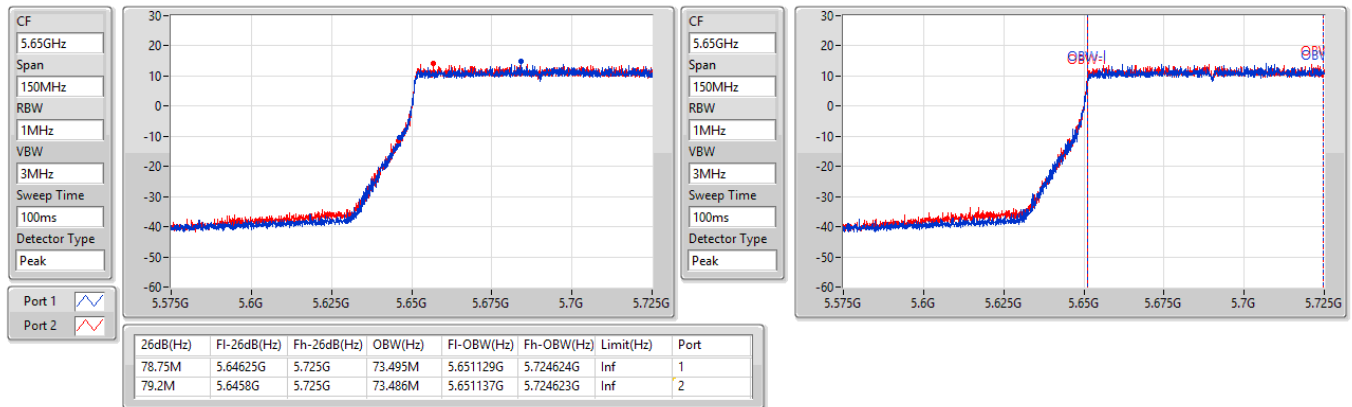
5610MHz



5.47-5.725GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

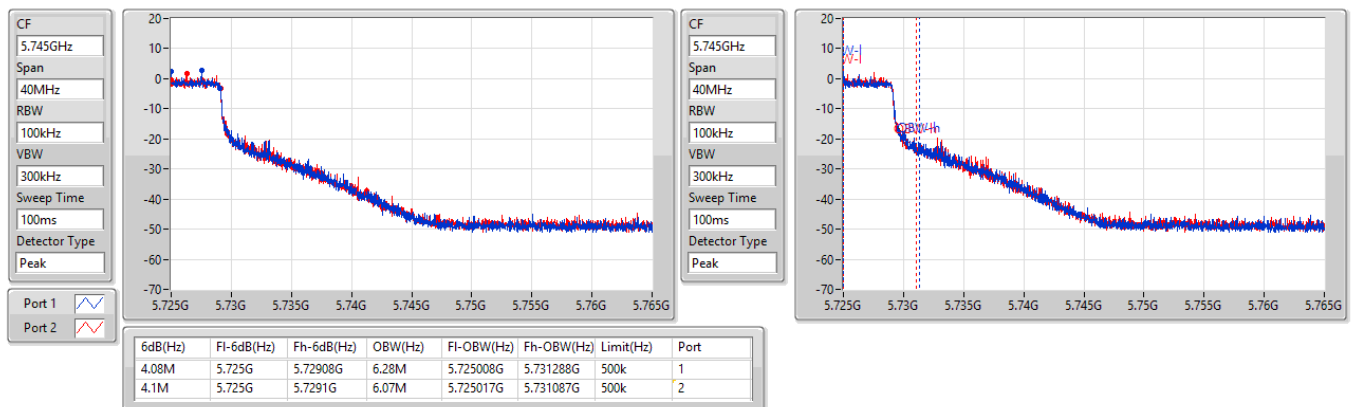
5690MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

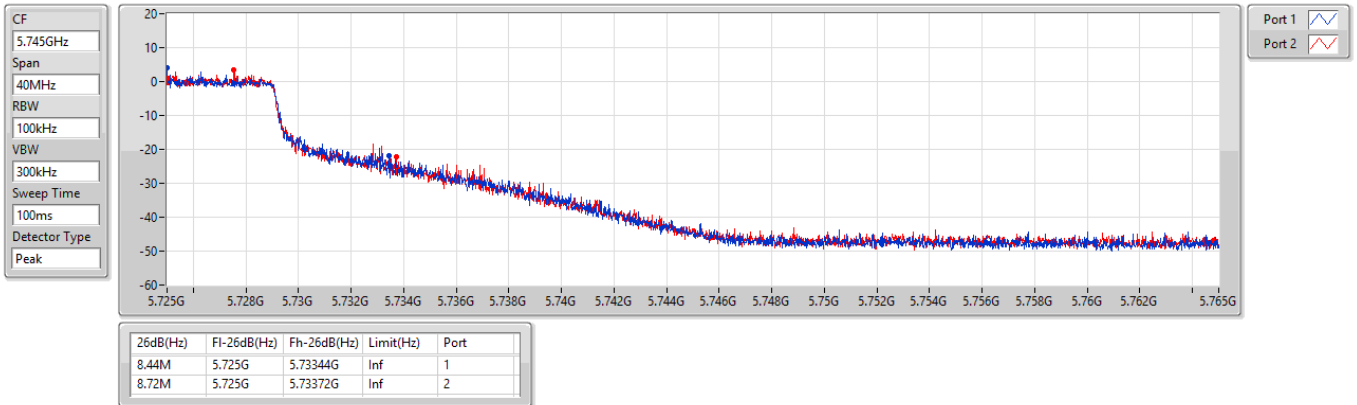




5.725-5.85GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

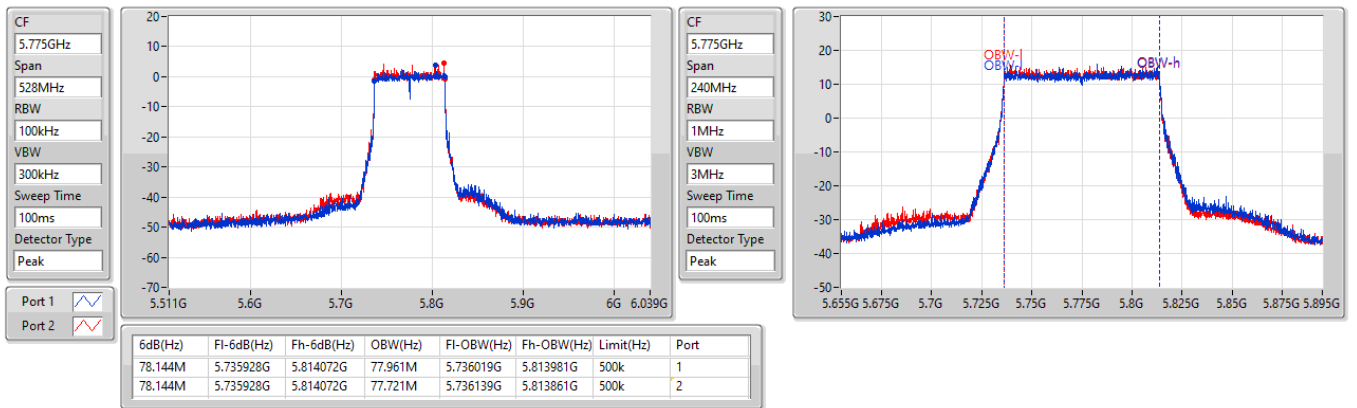
5690MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

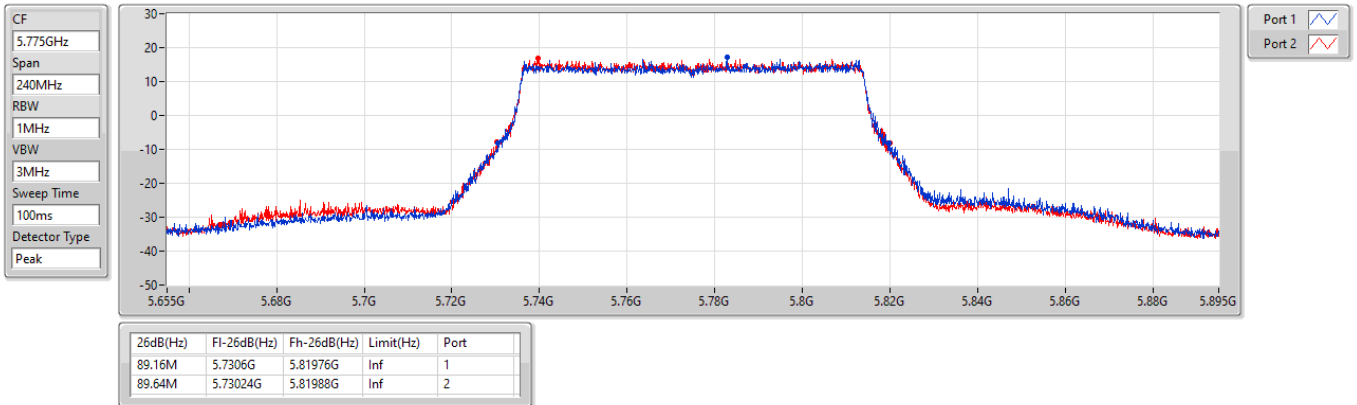
5775MHz



5.725-5.85GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

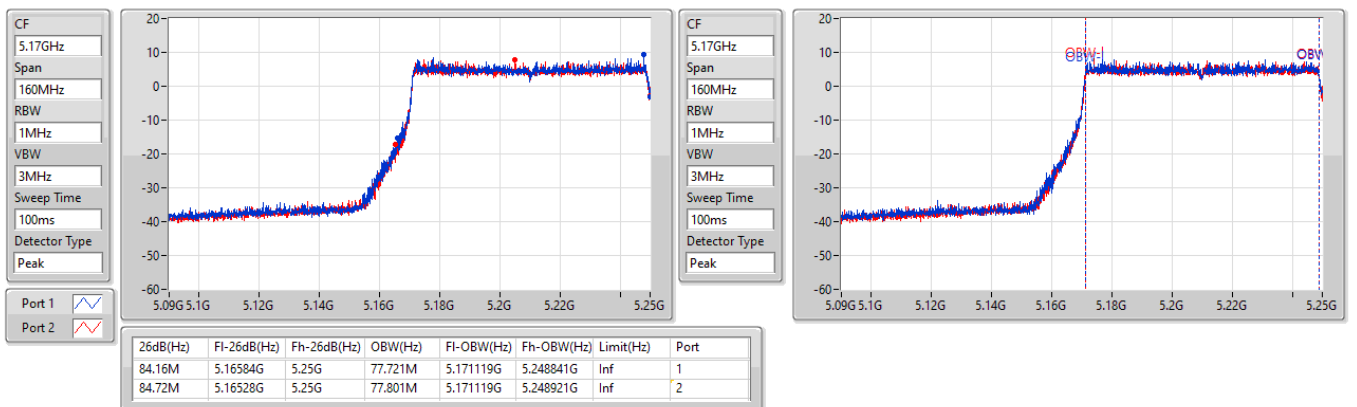
5775MHz



5.15-5.25GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

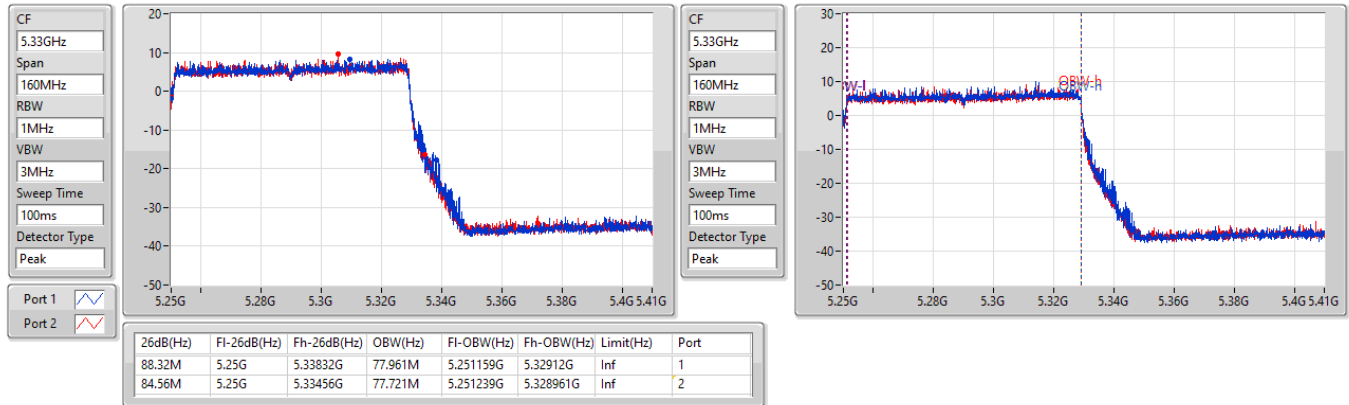
5250MHz Straddle 5.15-5.25GHz



5.25-5.35GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

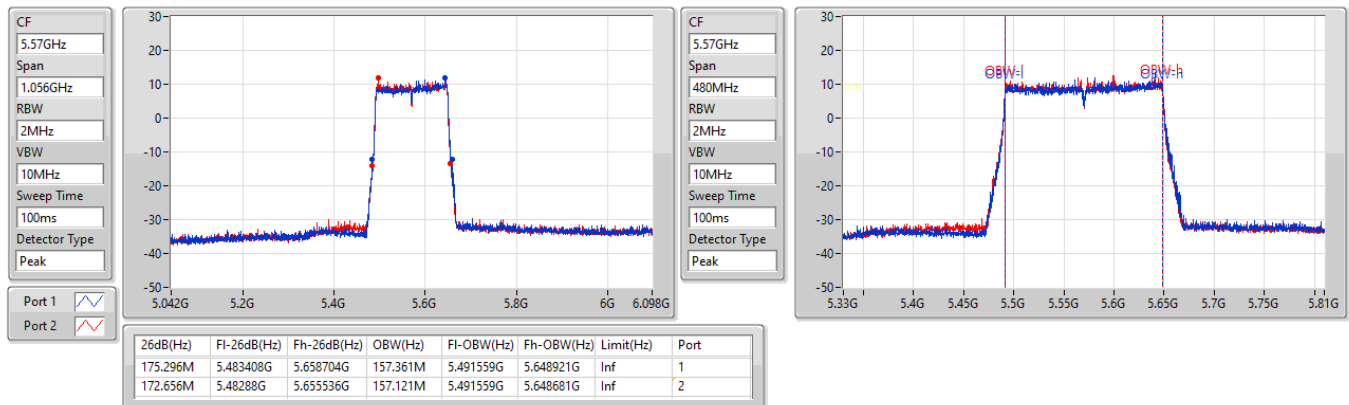
5250MHz Straddle 5.25-5.35GHz



5.47-5.725GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

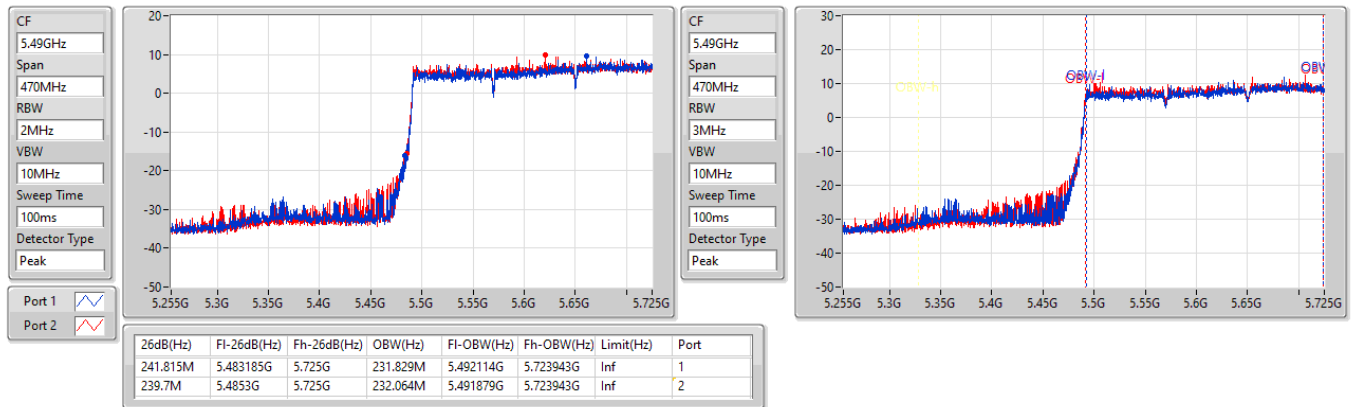
5570MHz



5.47-5.725GHz_be240_240MHz_Nss2,(MCS0)_2TX

EBW

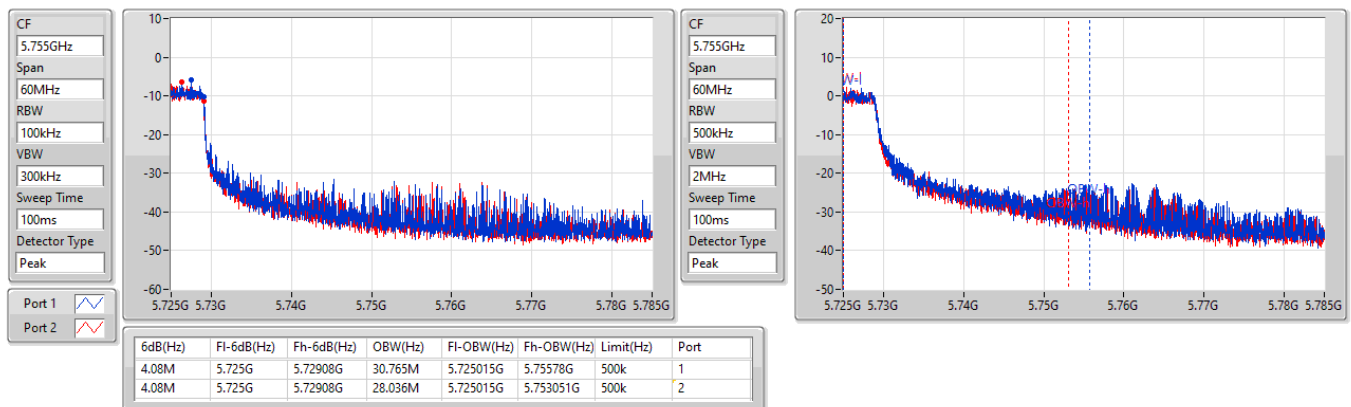
5610MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_be240_240MHz_Nss2,(MCS0)_2TX

EBW

5610MHz Straddle 5.725-5.85GHz

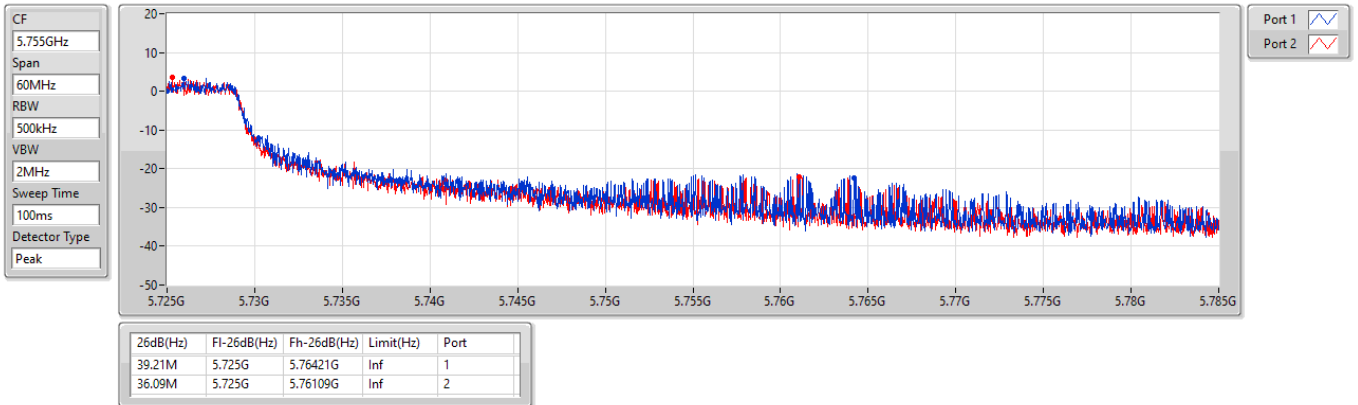




5.725-5.85GHz_be240_240MHz_Nss2,(MCS0)_2TX

EBW

5610MHz Straddle 5.725-5.85GHz



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	26.96	0.49659	32.10	1.62181
802.11be EHT20_Nss2,(MCS0)_2TX	27.15	0.51880	31.51	1.41579
802.11be EHT40_Nss2,(MCS0)_2TX	26.05	0.40272	30.41	1.09901
802.11be EHT80_Nss2,(MCS0)_2TX	22.46	0.17620	26.82	0.48084
802.11be EHT160_Nss2,(MCS0)_2TX	17.48	0.05598	21.84	0.15276
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.46	0.17620	27.60	0.57544
802.11be EHT20_Nss2,(MCS0)_2TX	23.58	0.22803	27.94	0.62230
802.11be EHT40_Nss2,(MCS0)_2TX	23.92	0.24660	28.28	0.67298
802.11be EHT80_Nss2,(MCS0)_2TX	22.04	0.15996	26.40	0.43652
802.11be EHT160_Nss2,(MCS0)_2TX	18.20	0.06607	22.56	0.18030
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.99	0.19907	27.76	0.59704
802.11be EHT20_Nss2,(MCS0)_2TX	23.51	0.22439	27.38	0.54702
802.11be EHT40_Nss2,(MCS0)_2TX	23.61	0.22961	27.48	0.55976
802.11be EHT80_Nss2,(MCS0)_2TX	23.65	0.23174	27.52	0.56494
802.11be EHT160_Nss2,(MCS0)_2TX	20.58	0.11429	24.45	0.27861
be240_240MHz_Nss2,(MCS0)_2TX	19.03	0.07998	22.90	0.19498
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	26.85	0.48417	31.62	1.45211
802.11be EHT20_Nss2,(MCS0)_2TX	26.95	0.49545	30.98	1.25314
802.11be EHT40_Nss2,(MCS0)_2TX	26.85	0.48417	30.88	1.22462
802.11be EHT80_Nss2,(MCS0)_2TX	24.76	0.29923	28.79	0.75683
be240_240MHz_Nss2,(MCS0)_2TX	2.28	0.00169	6.31	0.00428

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	5.14	20.16	19.45	22.83	30.00	27.97	36.00
5200MHz	Pass	5.14	23.45	23.15	26.31	30.00	31.45	36.00
5240MHz	Pass	5.14	24.12	23.77	26.96	30.00	32.10	36.00
5260MHz	Pass	5.14	19.59	19.25	22.43	24.00	27.57	30.00
5300MHz	Pass	5.14	19.76	19.12	22.46	24.00	27.60	30.00
5320MHz	Pass	5.14	19.62	19.04	22.35	24.00	27.49	30.00
5500MHz	Pass	4.77	19.98	19.75	22.88	24.00	27.65	30.00
5580MHz	Pass	4.77	19.96	19.95	22.97	24.00	27.74	30.00
5700MHz	Pass	4.77	19.99	19.97	22.99	24.00	27.76	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.77	18.81	19.08	21.96	23.05	26.73	29.05
5720MHz Straddle 5.725-5.85GHz	Pass	4.77	13.02	13.21	16.13	30.00	20.90	36.00
5745MHz	Pass	4.77	23.76	23.92	26.85	30.00	31.62	36.00
5785MHz	Pass	4.77	23.45	23.63	26.55	30.00	31.32	36.00
5825MHz	Pass	4.77	23.32	23.35	26.35	30.00	31.12	36.00
802.11be EHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.36	20.22	19.55	22.91	30.00	27.27	36.00
5200MHz	Pass	4.36	23.26	22.95	26.12	30.00	30.48	36.00
5240MHz	Pass	4.36	24.32	23.95	27.15	30.00	31.51	36.00
5260MHz	Pass	4.36	20.77	20.35	23.58	24.00	27.94	30.00
5300MHz	Pass	4.36	20.85	20.17	23.53	24.00	27.89	30.00
5320MHz	Pass	4.36	20.51	20.02	23.28	24.00	27.64	30.00
5500MHz	Pass	3.87	20.61	20.36	23.50	24.00	27.37	30.00
5580MHz	Pass	3.87	20.5	20.49	23.51	24.00	27.38	30.00
5700MHz	Pass	3.87	19.61	19.6	22.62	24.00	26.49	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.87	18.81	19.09	21.96	23.18	25.83	29.18
5720MHz Straddle 5.725-5.85GHz	Pass	4.03	13.85	14.08	16.98	30.00	21.01	36.00
5745MHz	Pass	4.03	23.82	24.06	26.95	30.00	30.98	36.00
5785MHz	Pass	4.03	23.62	23.72	26.68	30.00	30.71	36.00
5825MHz	Pass	4.03	23.55	23.47	26.52	30.00	30.55	36.00
802.11be EHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.36	20.21	19.55	22.90	30.00	27.26	36.00
5230MHz	Pass	4.36	23.21	22.86	26.05	30.00	30.41	36.00
5270MHz	Pass	4.36	21.11	20.7	23.92	24.00	28.28	30.00
5310MHz	Pass	4.36	19.67	19.08	22.40	24.00	26.76	30.00
5510MHz	Pass	3.87	19.95	19.72	22.85	24.00	26.72	30.00
5590MHz	Pass	3.87	20.62	20.58	23.61	24.00	27.48	30.00
5670MHz	Pass	3.87	19.49	19.36	22.44	24.00	26.31	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.87	19.96	20.16	23.07	24.00	26.94	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.03	10.81	10.93	13.88	30.00	17.91	36.00
5755MHz	Pass	4.03	23.75	23.92	26.85	30.00	30.88	36.00
5795MHz	Pass	4.03	23.71	23.82	26.78	30.00	30.81	36.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11be EHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.36	19.72	19.17	22.46	30.00	26.82	36.00
5290MHz	Pass	4.36	19.23	18.81	22.04	24.00	26.40	30.00
5530MHz	Pass	3.87	19.87	19.57	22.73	24.00	26.60	30.00
5610MHz	Pass	3.87	20.66	20.62	23.65	24.00	27.52	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.87	20.23	20.47	23.36	24.00	27.23	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.03	8.07	8.07	11.08	30.00	15.11	36.00
5775MHz	Pass	4.03	21.62	21.87	24.76	30.00	28.79	36.00
802.11be EHT160_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.36	14.63	14.31	17.48	30.00	21.84	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.36	15.43	14.94	18.20	24.00	22.56	30.00
5570MHz	Pass	3.87	17.58	17.56	20.58	24.00	24.45	30.00
be240_240MHz_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5610MHz Straddle 5.47-5.725GHz	Pass	3.87	16.03	16	19.03	24.00	22.90	30.00
5610MHz Straddle 5.725-5.85GHz	Pass	4.03	-0.36	-1.13	2.28	30.00	6.31	36.00

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

Directional Gain
For 802.11a

Antenna	Antenna Gain (dBi)			
	5150 ~ 5250 MHz	5250 ~ 5350 MHz	5470 ~ 5725 MHz	5725 ~ 5850 MHz
1	3.4	3.41	2.73	3.14
2	5.14	5.14	4.77	4.77
Directional Gain	5.14	5.14	4.77	4.77

Note: Directional Gain = Max gain of all antennas

For 802.11be

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
1	3.4	3.41	2.73	3.14
2	5.14	5.14	4.77	4.77
Directional Gain (dBi)	4.36	4.36	3.87	4.03

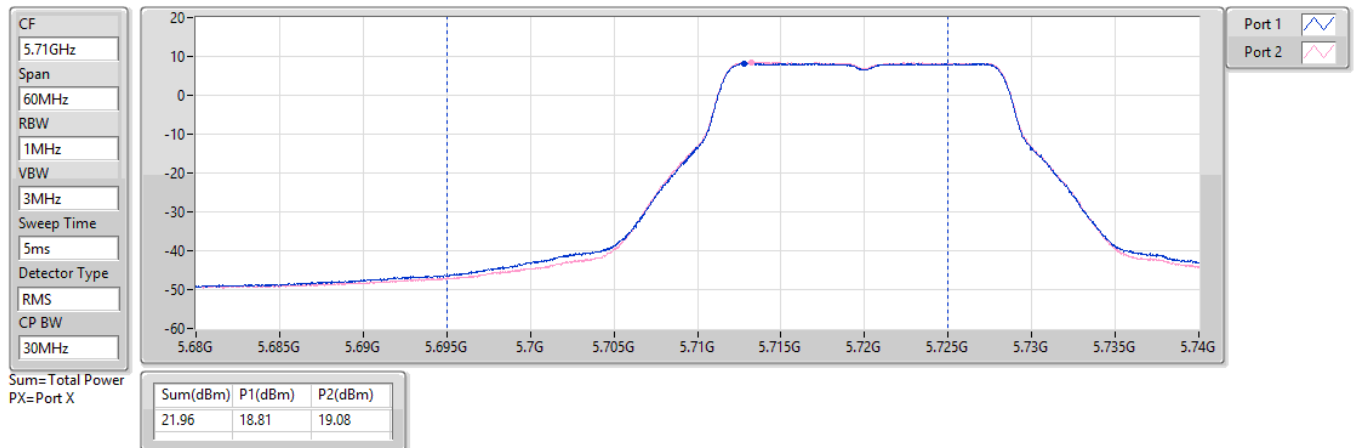
Note: Directional Gain = $10 \log [(10^{G1/10} + 10^{G2/10})/N_{ANT}]$



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

AV Power

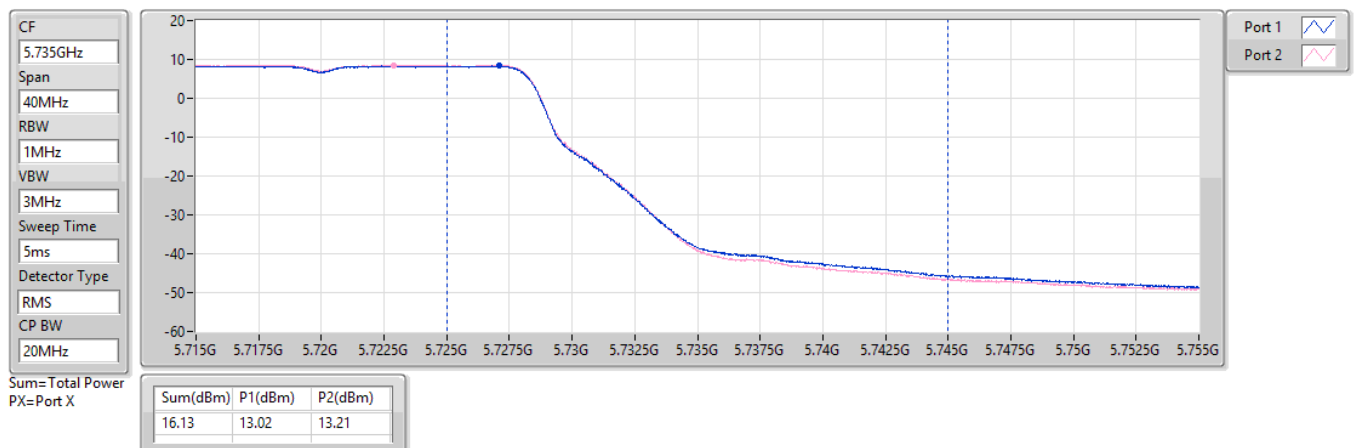
5720MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

AV Power

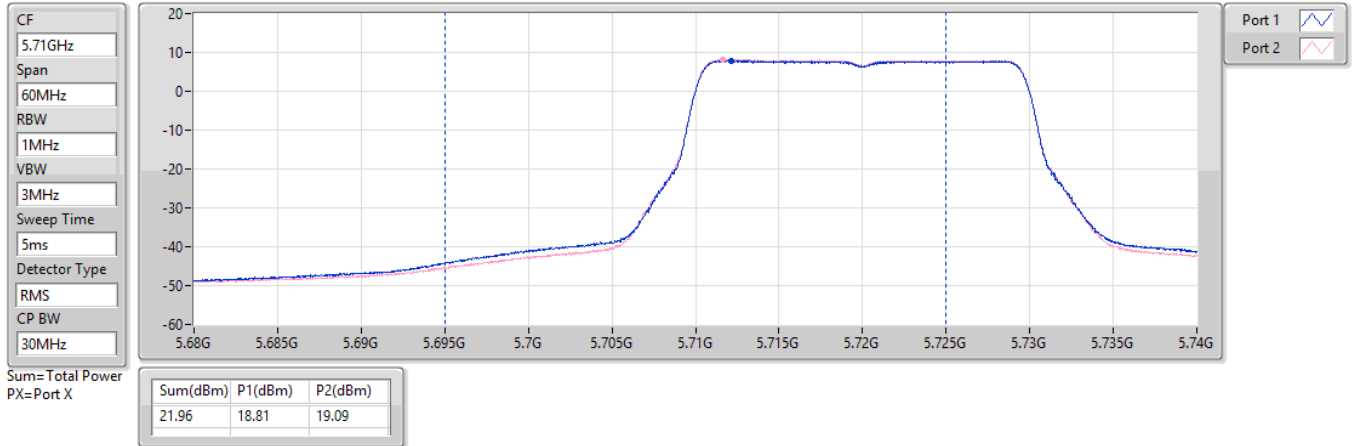
5720MHz Straddle 5.725-5.85GHz_TX



5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX

AV Power

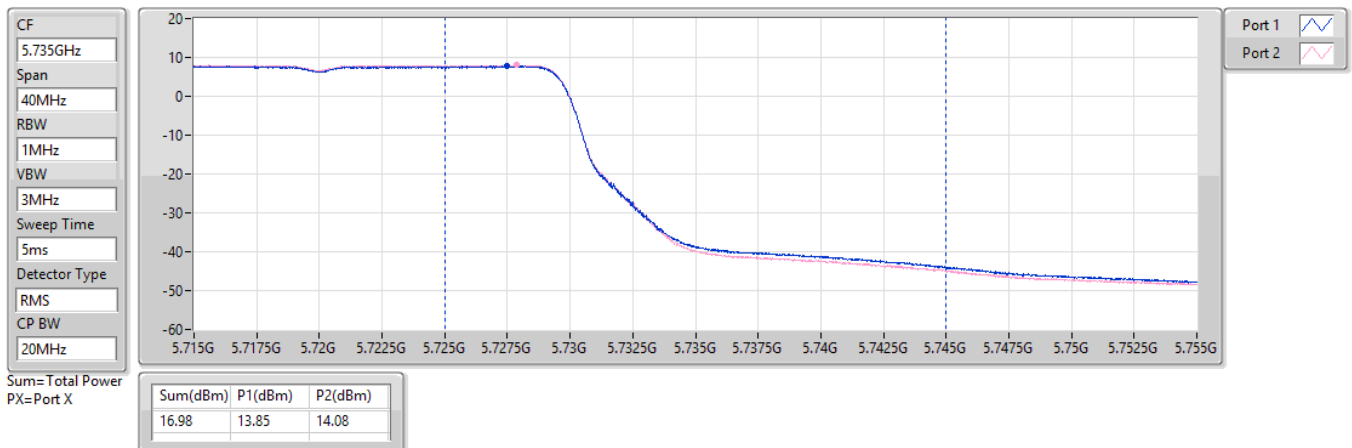
5720MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

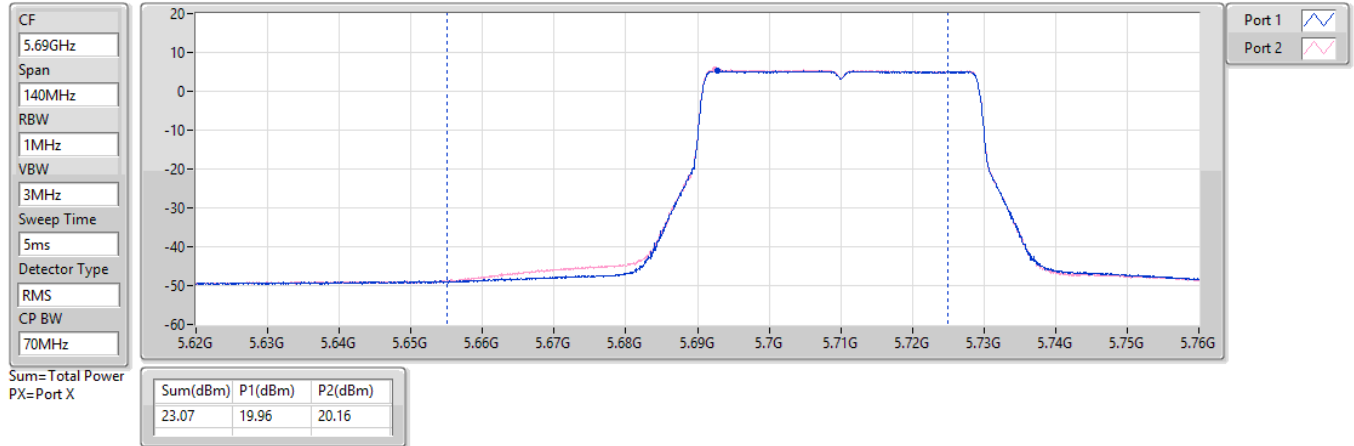




5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX

AV Power

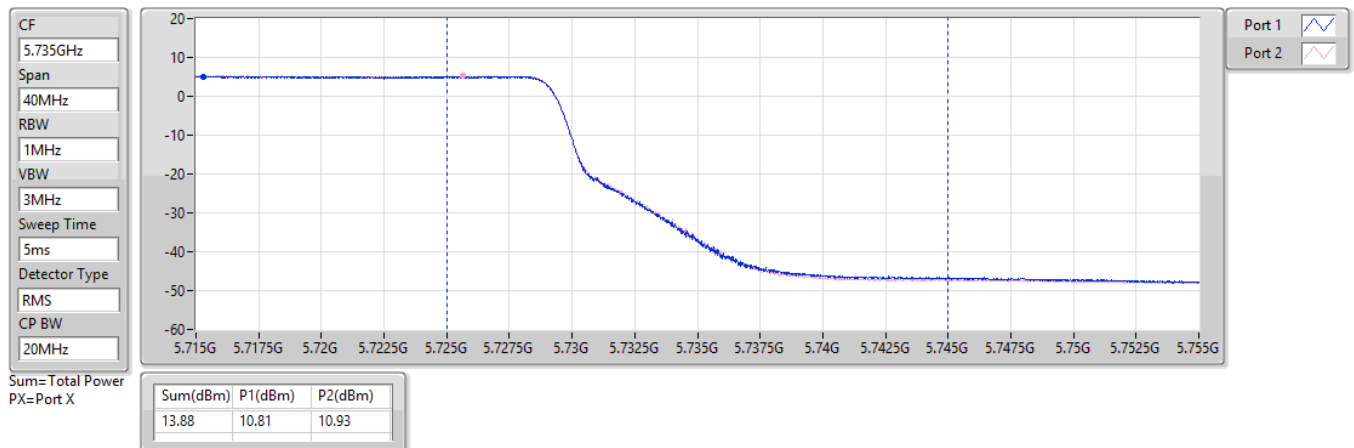
5710MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

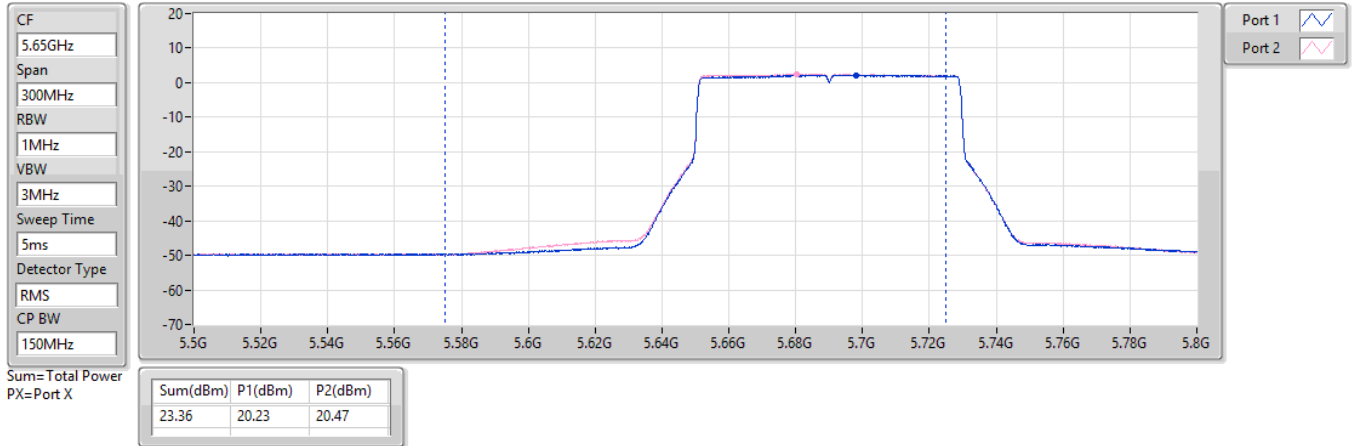




5.47-5.725GHz_802.11be EHT80_Nss2,(MCS0)_2TX

AV Power

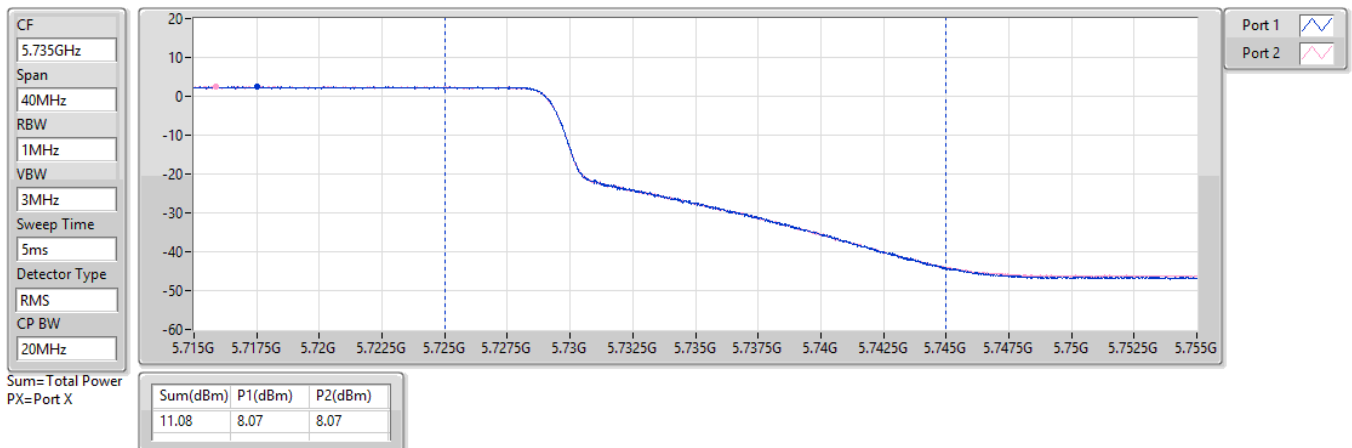
5690MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_802.11be EHT80_Nss2,(MCS0)_2TX

AV Power

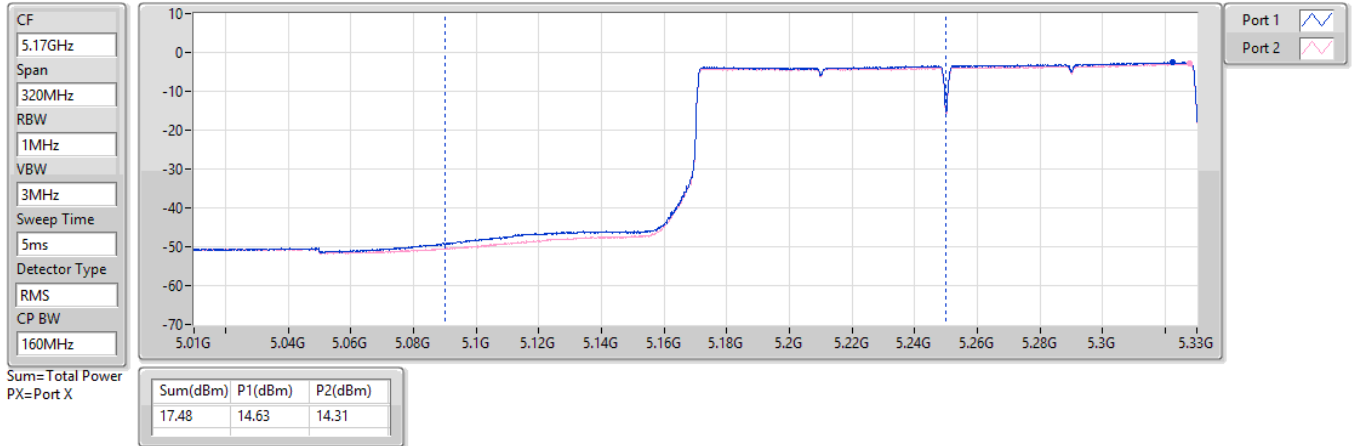
5690MHz Straddle 5.725-5.85GHz_TX



5.15-5.25GHz_802.11be EHT160_Nss2,(MCS0)_2TX

AV Power

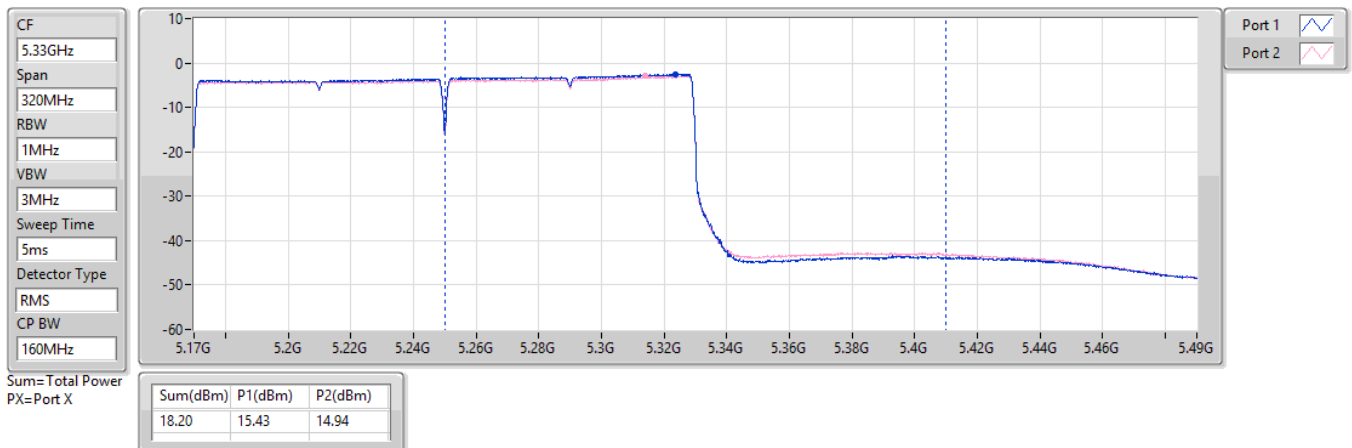
5250MHz Straddle 5.15-5.25GHz_TX



5.25-5.35GHz_802.11be EHT160_Nss2,(MCS0)_2TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TX

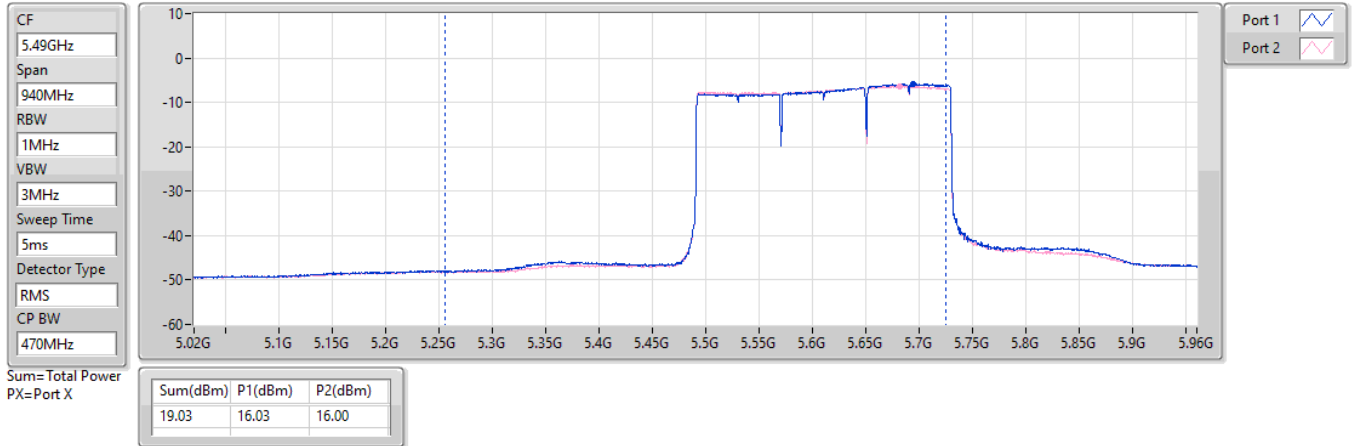




5.47-5.725GHz_be240_240MHz_Nss2,(MCS0)_2TX

AV Power

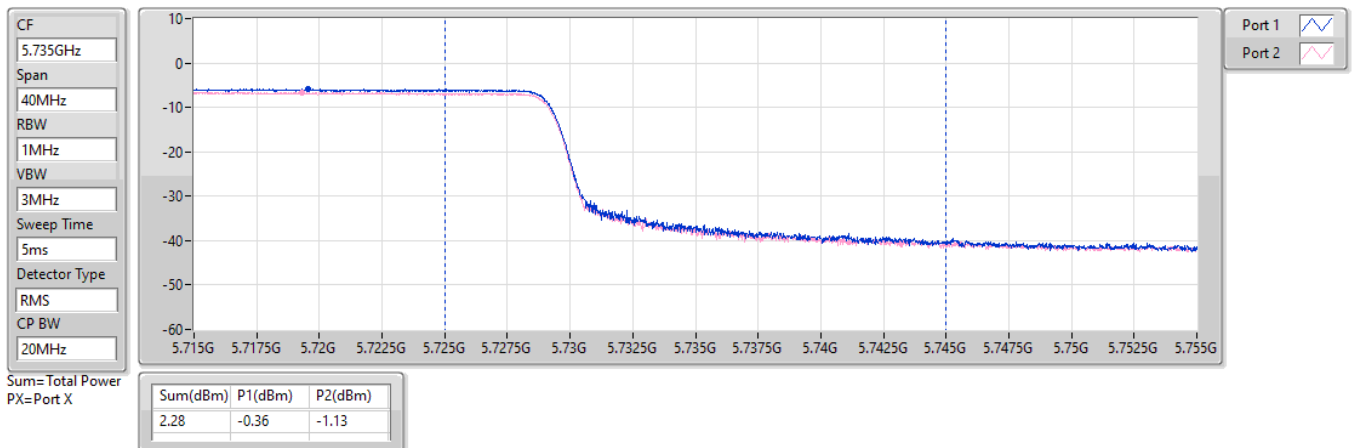
5610MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_be240_240MHz_Nss2,(MCS0)_2TX

AV Power

5610MHz Straddle 5.725-5.85GHz_TX



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11be EHT20-BF_Nss2,(MCS0)_2TX	24.14	0.25942	28.50	0.70795
802.11be EHT40-BF_Nss2,(MCS0)_2TX	23.04	0.20137	27.40	0.54954
802.11be EHT80-BF_Nss2,(MCS0)_2TX	19.45	0.08810	23.81	0.24044
802.11be EHT160-BF_Nss2,(MCS0)_2TX	14.47	0.02799	18.83	0.07638
5.25-5.35GHz	-	-	-	-
802.11be EHT20-BF_Nss2,(MCS0)_2TX	20.57	0.11402	24.93	0.31117
802.11be EHT40-BF_Nss2,(MCS0)_2TX	20.91	0.12331	25.27	0.33651
802.11be EHT80-BF_Nss2,(MCS0)_2TX	19.03	0.07998	23.39	0.21827
802.11be EHT160-BF_Nss2,(MCS0)_2TX	15.19	0.03304	19.55	0.09016
5.47-5.725GHz	-	-	-	-
802.11be EHT20-BF_Nss2,(MCS0)_2TX	20.50	0.11220	24.37	0.27353
802.11be EHT40-BF_Nss2,(MCS0)_2TX	20.60	0.11482	24.47	0.27990
802.11be EHT80-BF_Nss2,(MCS0)_2TX	20.64	0.11588	24.51	0.28249
802.11be EHT160-BF_Nss2,(MCS0)_2TX	17.57	0.05715	21.44	0.13932
be240,BF_240MHz_Nss2,(MCS0)_2TX	16.02	0.03999	19.89	0.09750
5.725-5.85GHz	-	-	-	-
802.11be EHT20-BF_Nss2,(MCS0)_2TX	23.94	0.24774	27.97	0.62661
802.11be EHT40-BF_Nss2,(MCS0)_2TX	23.84	0.24210	27.87	0.61235
802.11be EHT80-BF_Nss2,(MCS0)_2TX	21.75	0.14962	25.78	0.37844
be240,BF_240MHz_Nss2,(MCS0)_2TX	-0.73	0.00085	3.30	0.00214

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11be EHT20-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.36	17.21	16.54	19.90	30.00	24.26	36.00
5200MHz	Pass	4.36	20.25	19.94	23.11	30.00	27.47	36.00
5240MHz	Pass	4.36	21.31	20.94	24.14	30.00	28.50	36.00
5260MHz	Pass	4.36	17.76	17.34	20.57	24.00	24.93	30.00
5300MHz	Pass	4.36	17.84	17.16	20.52	24.00	24.88	30.00
5320MHz	Pass	4.36	17.5	17.01	20.27	24.00	24.63	30.00
5500MHz	Pass	3.87	17.6	17.35	20.49	24.00	24.36	30.00
5580MHz	Pass	3.87	17.49	17.48	20.50	24.00	24.37	30.00
5700MHz	Pass	3.87	16.6	16.59	19.61	24.00	23.48	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.87	15.8	16.08	18.95	23.18	22.82	29.18
5720MHz Straddle 5.725-5.85GHz	Pass	4.03	10.84	11.07	13.97	30.00	18.00	36.00
5745MHz	Pass	4.03	20.81	21.05	23.94	30.00	27.97	36.00
5785MHz	Pass	4.03	20.61	20.71	23.67	30.00	27.70	36.00
5825MHz	Pass	4.03	20.54	20.46	23.51	30.00	27.54	36.00
802.11be EHT40-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.36	17.2	16.54	19.89	30.00	24.25	36.00
5230MHz	Pass	4.36	20.2	19.85	23.04	30.00	27.40	36.00
5270MHz	Pass	4.36	18.1	17.69	20.91	24.00	25.27	30.00
5310MHz	Pass	4.36	16.66	16.07	19.39	24.00	23.75	30.00
5510MHz	Pass	3.87	16.94	16.71	19.84	24.00	23.71	30.00
5590MHz	Pass	3.87	17.61	17.57	20.60	24.00	24.47	30.00
5670MHz	Pass	3.87	16.48	16.35	19.43	24.00	23.30	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.87	16.95	17.15	20.06	24.00	23.93	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.03	7.8	7.92	10.87	30.00	14.90	36.00
5755MHz	Pass	4.03	20.74	20.91	23.84	30.00	27.87	36.00
5795MHz	Pass	4.03	20.7	20.81	23.77	30.00	27.80	36.00
802.11be EHT80-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.36	16.71	16.16	19.45	30.00	23.81	36.00
5290MHz	Pass	4.36	16.22	15.8	19.03	24.00	23.39	30.00
5530MHz	Pass	3.87	16.86	16.56	19.72	24.00	23.59	30.00
5610MHz	Pass	3.87	17.65	17.61	20.64	24.00	24.51	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.87	17.22	17.46	20.35	24.00	24.22	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.03	5.06	5.06	8.07	30.00	12.10	36.00
5775MHz	Pass	4.03	18.61	18.86	21.75	30.00	25.78	36.00
802.11be EHT160-BF_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.36	11.62	11.3	14.47	30.00	18.83	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.36	12.42	11.93	15.19	24.00	19.55	30.00
5570MHz	Pass	3.87	14.57	14.55	17.57	24.00	21.44	30.00
be240,BF_240MHz_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5610MHz Straddle 5.47-5.725GHz	Pass	3.87	13.02	12.99	16.02	24.00	19.89	30.00
5610MHz Straddle 5.725-5.85GHz	Pass	4.03	-3.37	-4.14	-0.73	30.00	3.30	36.00



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

Directional Gain = $10 \log [(10^{G1/10} + 10^{G2/10})/N_{ANT}]$

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
1	3.4	3.41	2.73	3.14
2	5.14	5.14	4.77	4.77
Directional Gain (dBi)	4.36	4.36	3.87	4.03

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	13.92	21.24
802.11be EHT20_Nss2,(MCS0)_2TX	13.66	18.02
802.11be EHT40_Nss2,(MCS0)_2TX	9.92	14.28
802.11be EHT80_Nss2,(MCS0)_2TX	3.19	7.55
802.11be EHT160_Nss2,(MCS0)_2TX	-2.01	2.35
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.35	16.68
802.11be EHT20_Nss2,(MCS0)_2TX	10.22	14.58
802.11be EHT40_Nss2,(MCS0)_2TX	7.49	11.85
802.11be EHT80_Nss2,(MCS0)_2TX	3.19	7.55
802.11be EHT160_Nss2,(MCS0)_2TX	-0.84	3.52
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.87	16.69
802.11be EHT20_Nss2,(MCS0)_2TX	10.07	13.94
802.11be EHT40_Nss2,(MCS0)_2TX	7.06	10.93
802.11be EHT80_Nss2,(MCS0)_2TX	4.58	8.45
802.11be EHT160_Nss2,(MCS0)_2TX	-1.08	2.79
be240_240MHz_Nss2,(MCS0)_2TX	-3.72	0.15
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	12.85	19.85
802.11be EHT20_Nss2,(MCS0)_2TX	12.49	16.52
802.11be EHT40_Nss2,(MCS0)_2TX	9.35	13.38
802.11be EHT80_Nss2,(MCS0)_2TX	4.08	8.11
be240_240MHz_Nss2,(MCS0)_2TX	-5.22	-1.19

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	7.32	7.66	7.21	10.33	15.68	17.65	23.00
5200MHz	Pass	7.32	10.97	10.43	13.60	15.68	20.92	23.00
5240MHz	Pass	7.32	11.08	10.93	13.92	15.68	21.24	23.00
5260MHz	Pass	7.33	6.62	6.23	9.33	9.67	16.66	17.00
5300MHz	Pass	7.33	6.59	6.3	9.29	9.67	16.62	17.00
5320MHz	Pass	7.33	6.61	6.2	9.35	9.67	16.68	17.00
5500MHz	Pass	6.82	6.93	6.75	9.76	10.18	16.58	17.00
5580MHz	Pass	6.82	6.81	6.97	9.79	10.18	16.61	17.00
5700MHz	Pass	6.82	6.8	7.01	9.87	10.18	16.69	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.82	6.68	7.08	9.85	10.18	16.67	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.00	5.43	5.48	8.41	29.00	15.41	36.00
5745MHz	Pass	7.00	9.75	10.15	12.85	29.00	19.85	36.00
5785MHz	Pass	7.00	9.56	9.86	12.56	29.00	19.56	36.00
5825MHz	Pass	7.00	9.48	9.62	12.54	29.00	19.54	36.00
802.11be EHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.36	6.98	6.49	9.60	17.00	13.96	23.00
5200MHz	Pass	4.36	10.07	9.68	12.69	17.00	17.05	23.00
5240MHz	Pass	4.36	10.86	10.62	13.66	17.00	18.02	23.00
5260MHz	Pass	4.36	7.56	7.16	10.22	11.00	14.58	17.00
5300MHz	Pass	4.36	7.48	7.11	10.18	11.00	14.54	17.00
5320MHz	Pass	4.36	7.20	6.86	9.88	11.00	14.24	17.00
5500MHz	Pass	3.87	7.16	7.1	10.02	11.00	13.89	17.00
5580MHz	Pass	3.87	7.1	7.2	10.07	11.00	13.94	17.00
5700MHz	Pass	3.87	6.20	6.56	9.35	11.00	13.22	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.87	6.38	6.92	9.63	11.00	13.50	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.03	5.02	5.24	8.04	30.00	12.07	36.00
5745MHz	Pass	4.03	9.34	9.72	12.49	30.00	16.52	36.00
5785MHz	Pass	4.03	9.30	9.42	12.18	30.00	16.21	36.00
5825MHz	Pass	4.03	9.04	9.31	12.09	30.00	16.12	36.00
802.11be EHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.36	4.30	3.88	6.93	17.00	11.29	23.00
5230MHz	Pass	4.36	7.27	6.89	9.92	17.00	14.28	23.00
5270MHz	Pass	4.36	4.83	4.20	7.49	11.00	11.85	17.00
5310MHz	Pass	4.36	3.67	3.43	6.48	11.00	10.84	17.00
5510MHz	Pass	3.87	3.75	3.61	6.60	11.00	10.47	17.00
5590MHz	Pass	3.87	4.00	4.29	7.06	11.00	10.93	17.00
5670MHz	Pass	3.87	3.09	3.32	6.06	11.00	9.93	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.87	3.79	4.13	6.94	11.00	10.81	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.03	2.29	2.29	5.25	30.00	9.28	36.00

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5755MHz	Pass	4.03	6.38	6.58	9.35	30.00	13.38	36.00
5795MHz	Pass	4.03	6.17	6.35	9.11	30.00	13.14	36.00
802.11be EHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.36	0.48	0.04	3.19	17.00	7.55	23.00
5290MHz	Pass	4.36	0.54	-0.10	3.19	11.00	7.55	17.00
5530MHz	Pass	3.87	0.65	0.57	3.51	11.00	7.38	17.00
5610MHz	Pass	3.87	1.81	1.46	4.58	11.00	8.45	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.87	0.75	0.85	3.75	11.00	7.62	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.03	-0.9	-0.77	2.07	30.00	6.10	36.00
5775MHz	Pass	4.03	1.41	1.45	4.08	30.00	8.11	36.00
802.11be EHT160_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	4.36	-4.75	-5.08	-2.01	17.00	2.35	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	4.36	-3.59	-3.86	-0.84	11.00	3.52	17.00
5570MHz	Pass	3.87	-4.02	-3.98	-1.08	11.00	2.79	17.00
be240_240MHz_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5610MHz Straddle 5.47-5.725GHz	Pass	3.87	-6.61	-6.67	-3.72	11.00	0.15	17.00
5610MHz Straddle 5.725-5.85GHz	Pass	4.03	-8.04	-8.21	-5.22	30.00	-1.19	36.00

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

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

For 802.11a

Directional gain = $10 \cdot \log((10^{G1/20} + 10^{G2/20})^2 / N_{ANT})$

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
1	3.4	3.41	2.73	3.14
2	5.14	5.14	4.77	4.77
Directional Gain (dBi)	7.32	7.33	6.82	7.00

For 802.11be

Directional Gain = $10 \log [(10^{G1/10} + 10^{G2/10}) / N_{ANT}]$

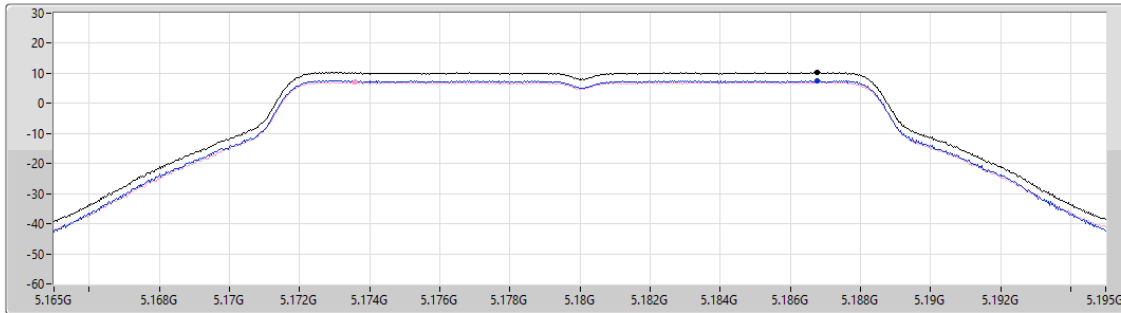
Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
1	3.4	3.41	2.73	3.14
2	5.14	5.14	4.77	4.77
Directional Gain (dBi)	4.36	4.36	3.87	4.03

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

CF
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2

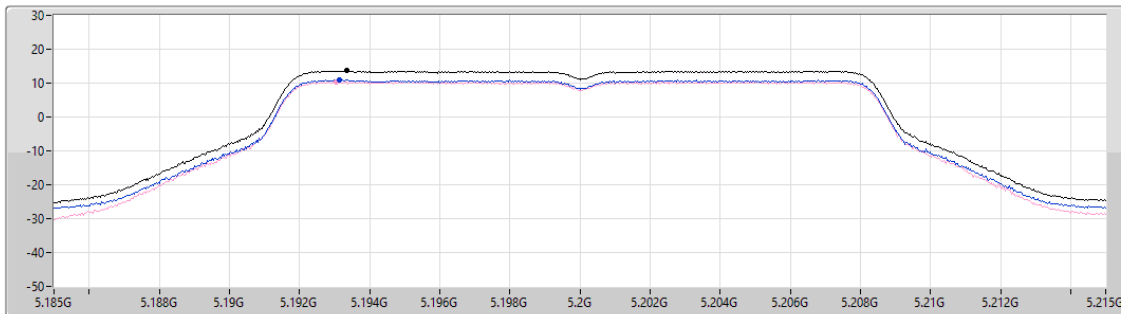
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.33	10.33	7.66	7.21

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

CF
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2

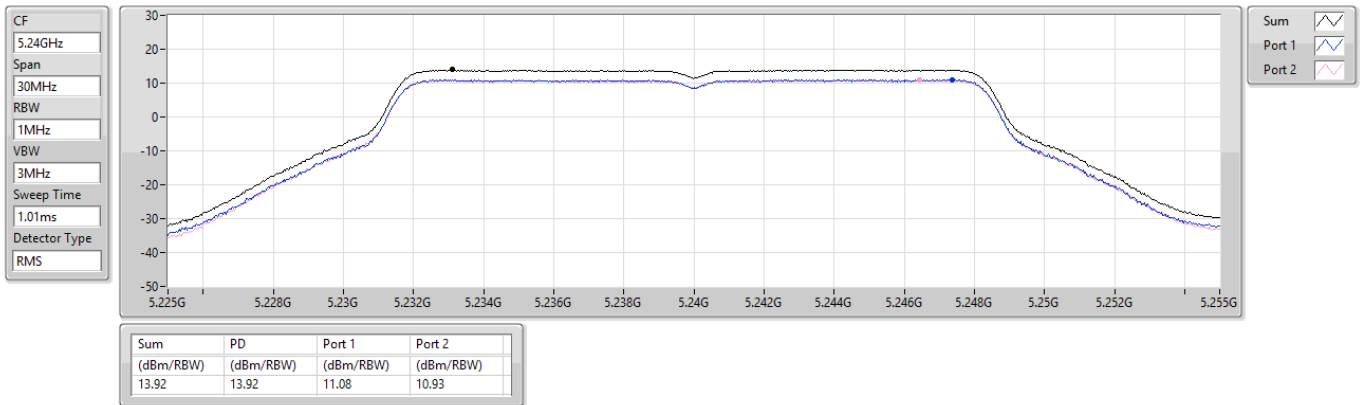
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.60	13.60	10.97	10.43



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

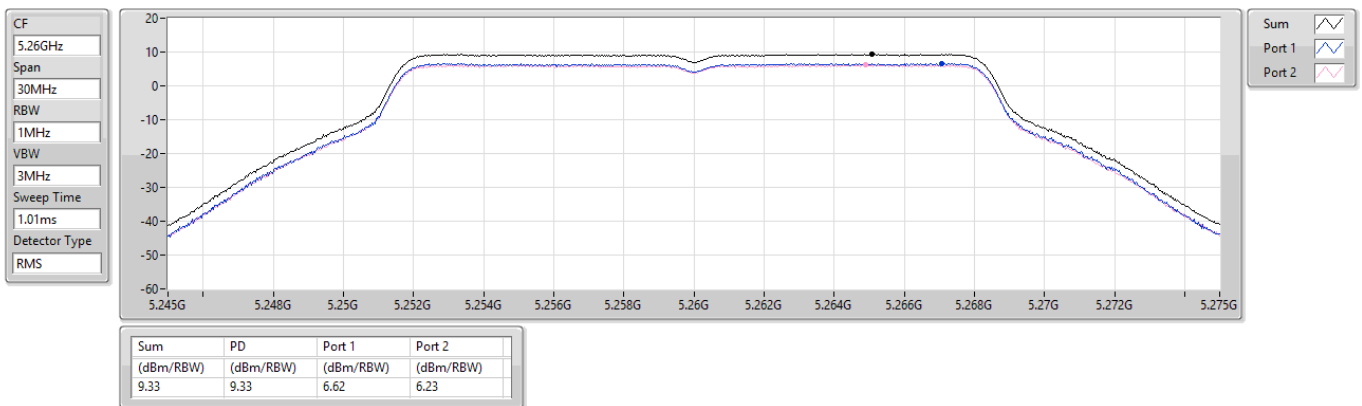
5240MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz



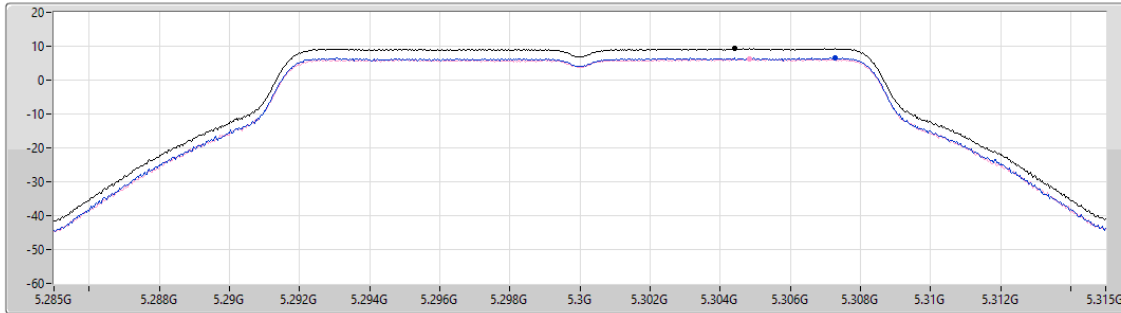


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

CF
5.3GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2

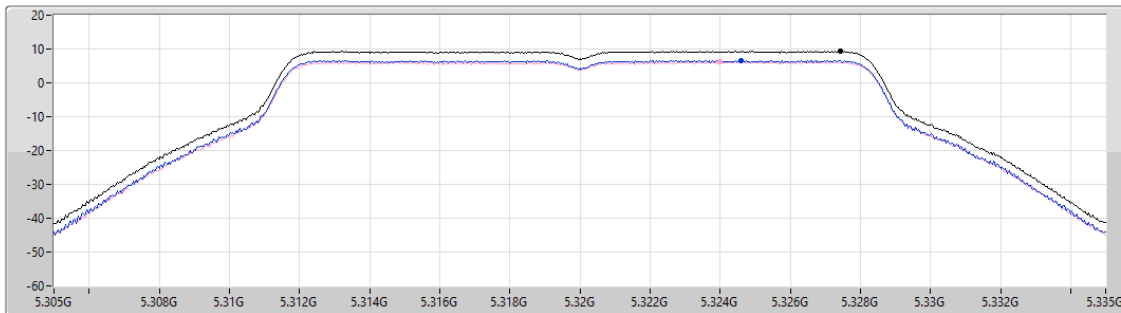
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.29	9.29	6.59	6.30

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5320MHz

CF
5.32GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2

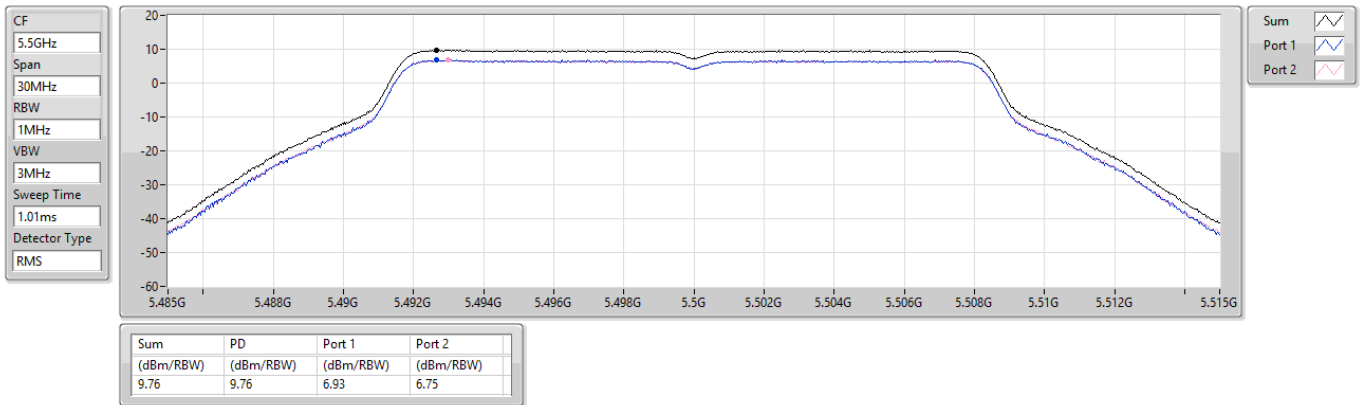
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.35	9.35	6.61	6.20



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

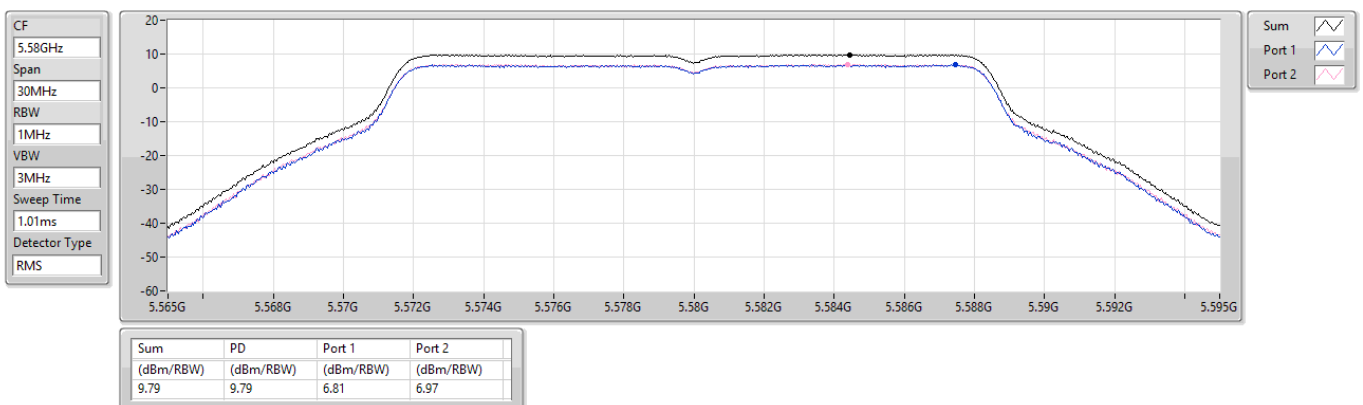
5500MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5580MHz

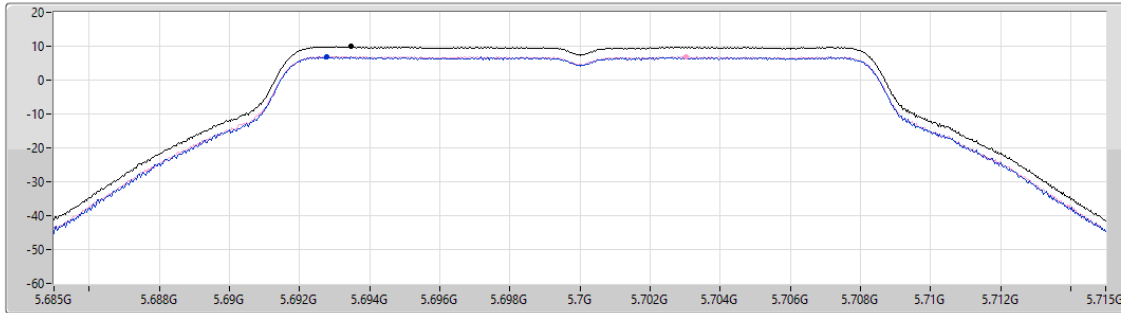


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5700MHz

CF
5.7GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



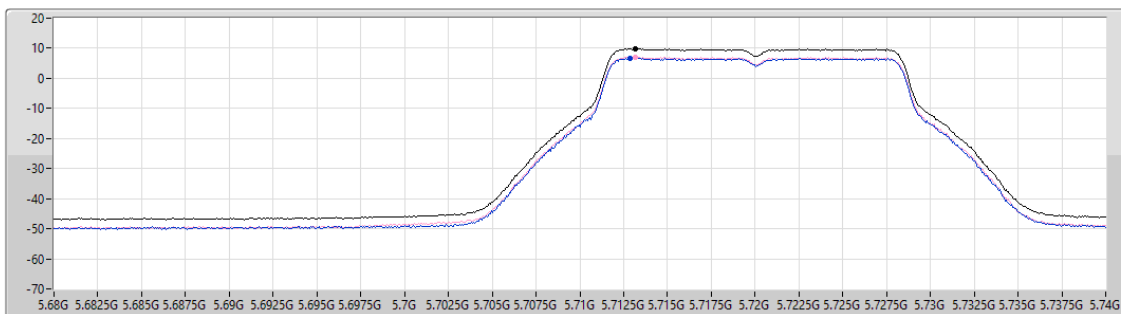
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.87	9.87	6.80	7.01

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

CF
5.71GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS

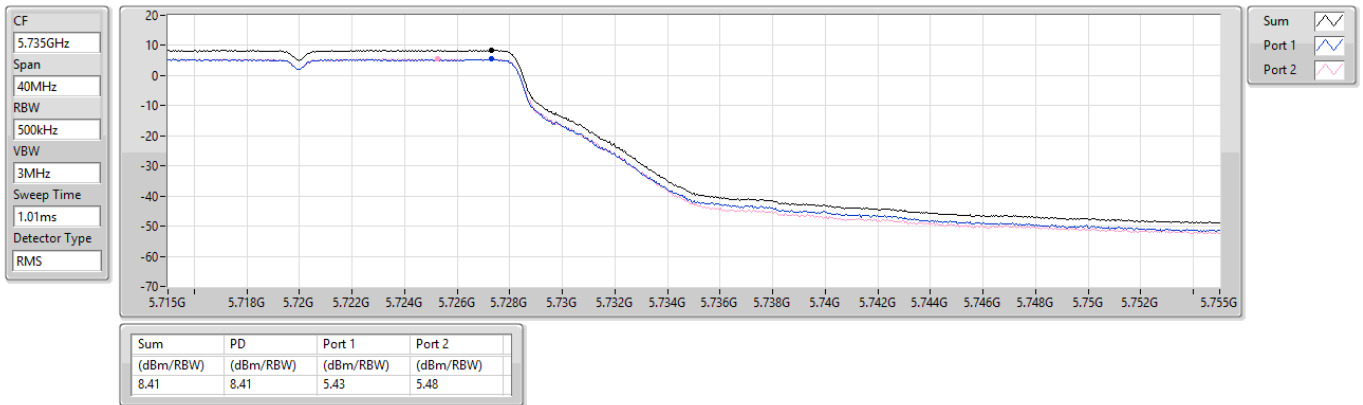


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.85	9.85	6.68	7.08

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

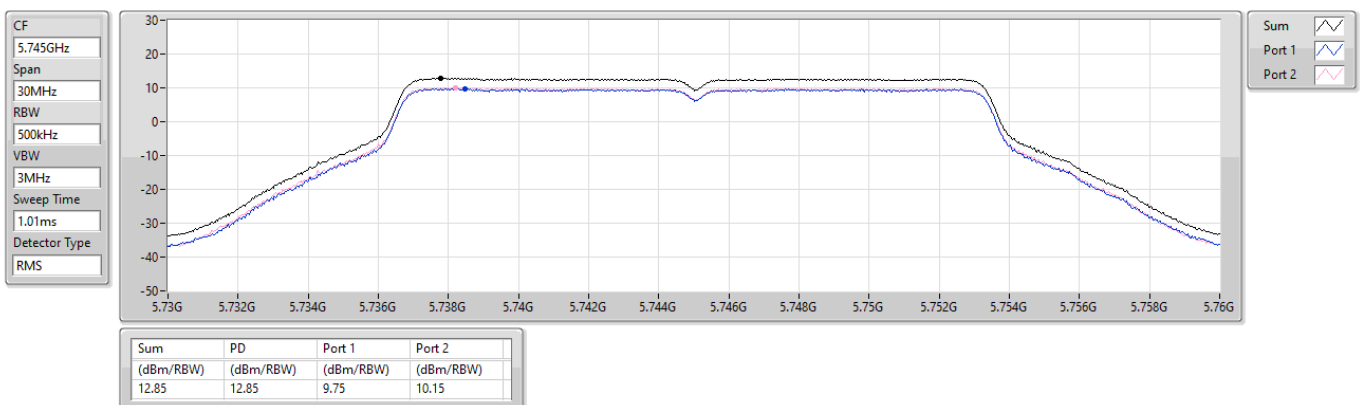
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

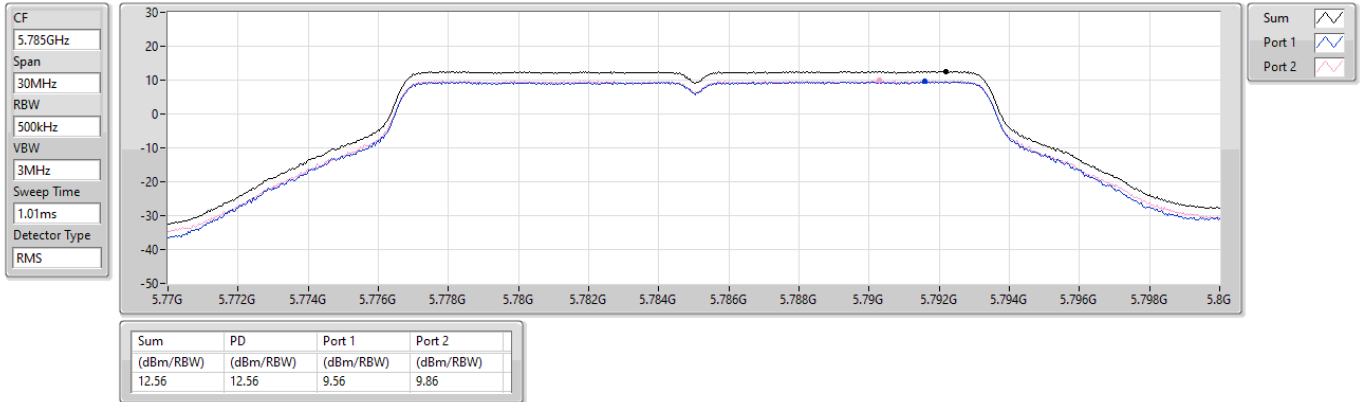
5745MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

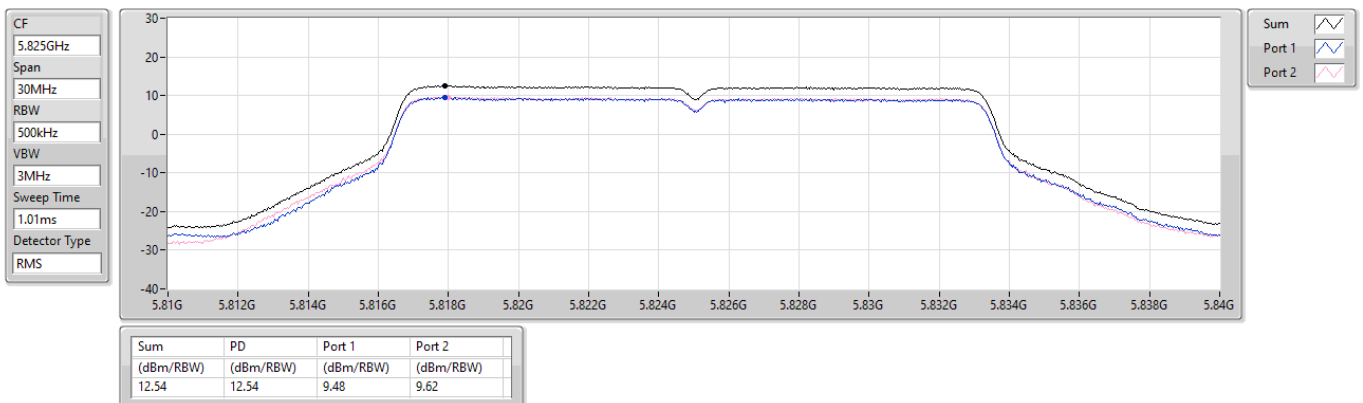
5785MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

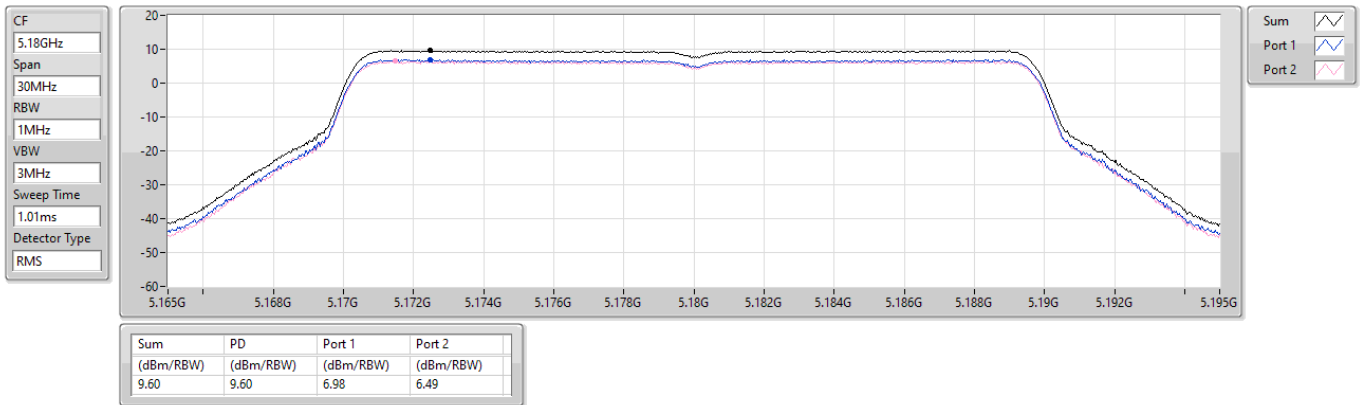
5825MHz



5.15-5.25GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

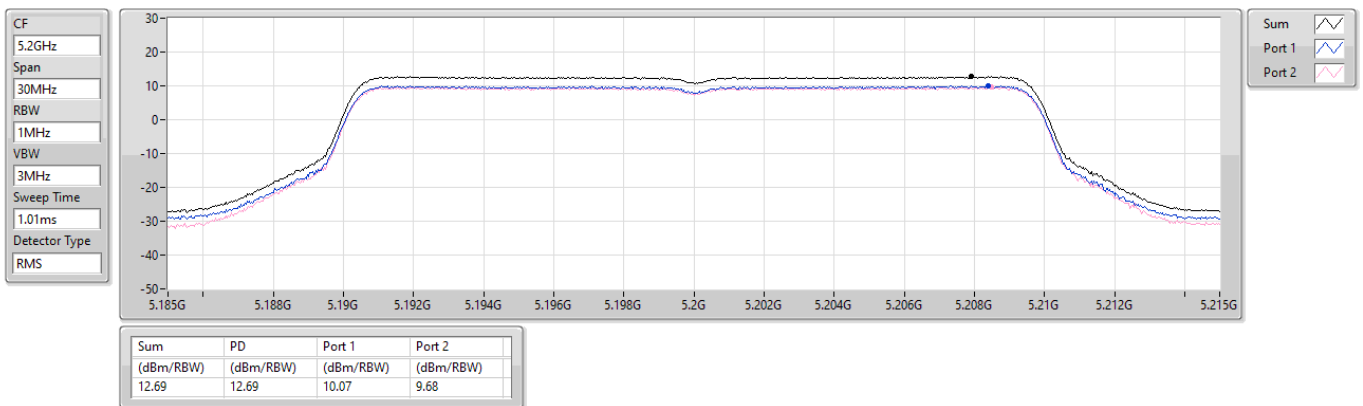
5180MHz



5.15-5.25GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

5200MHz

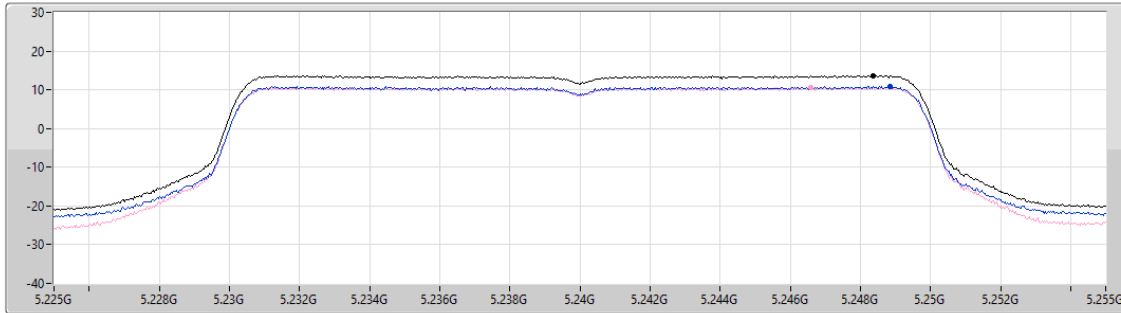


5.15-5.25GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

5240MHz

CF
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2

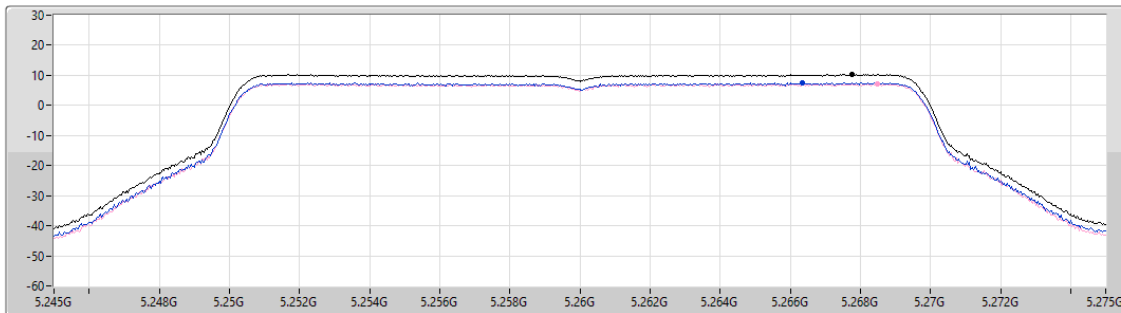
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.66	13.66	10.86	10.62

5.25-5.35GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

5260MHz

CF
5.26GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



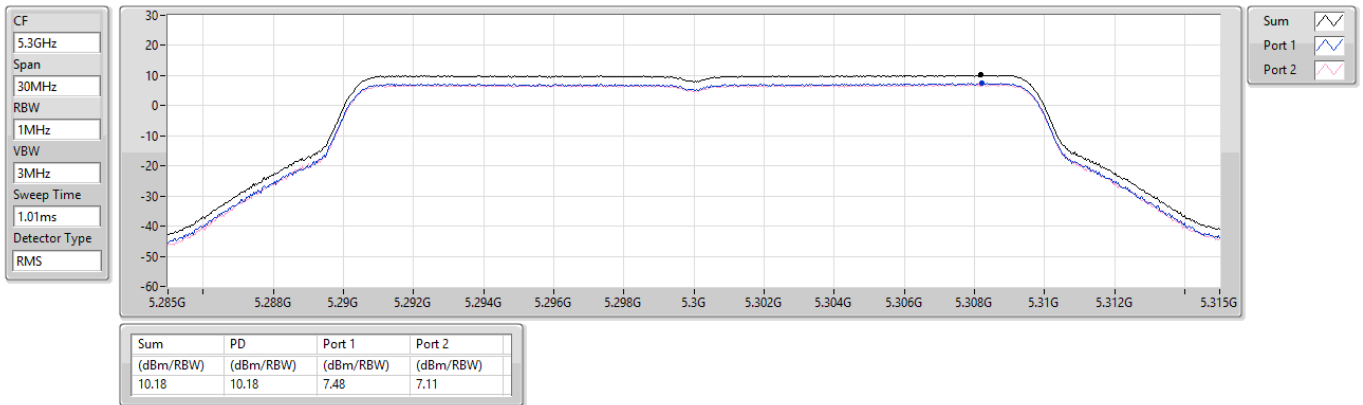
Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.22	10.22	7.56	7.16

5.25-5.35GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

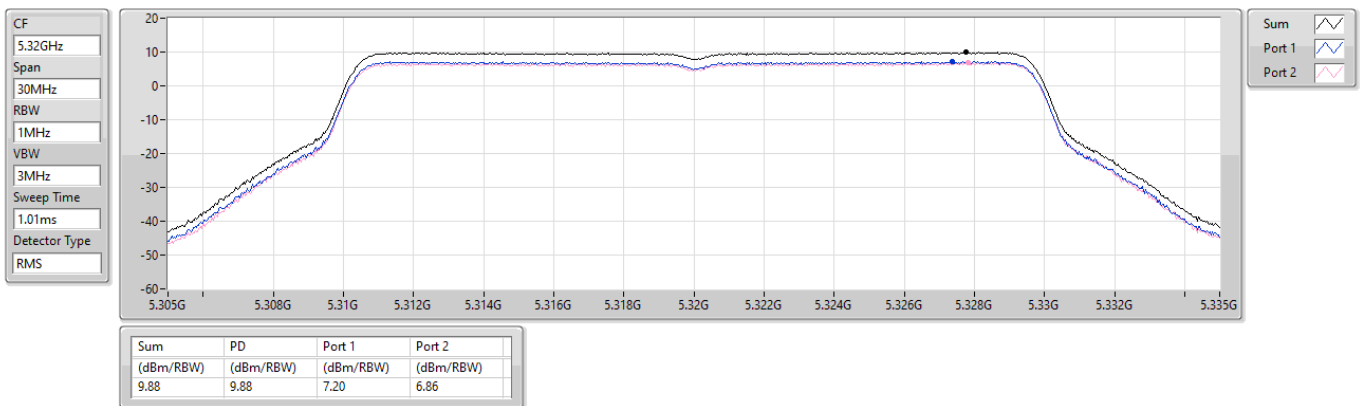
5300MHz



5.25-5.35GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

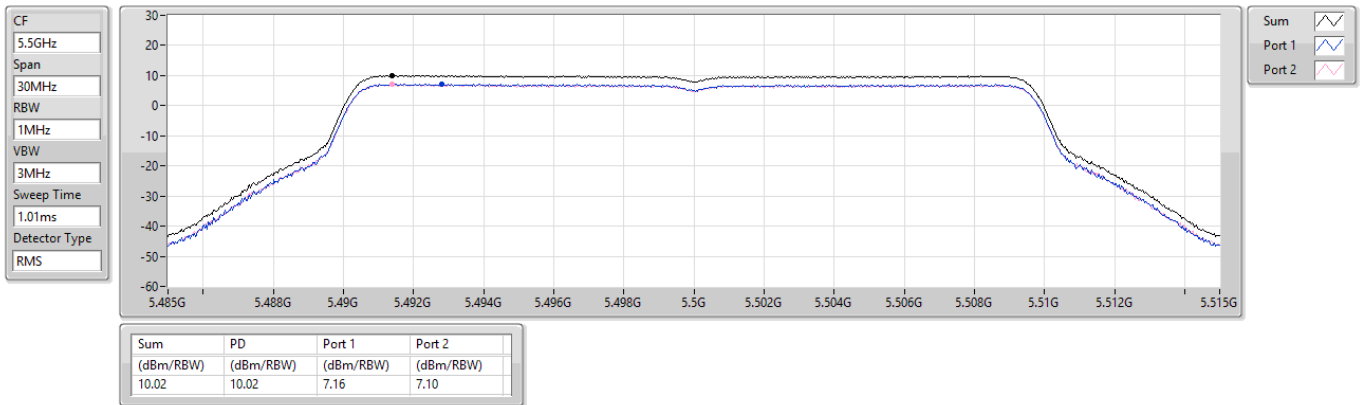
5320MHz



5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

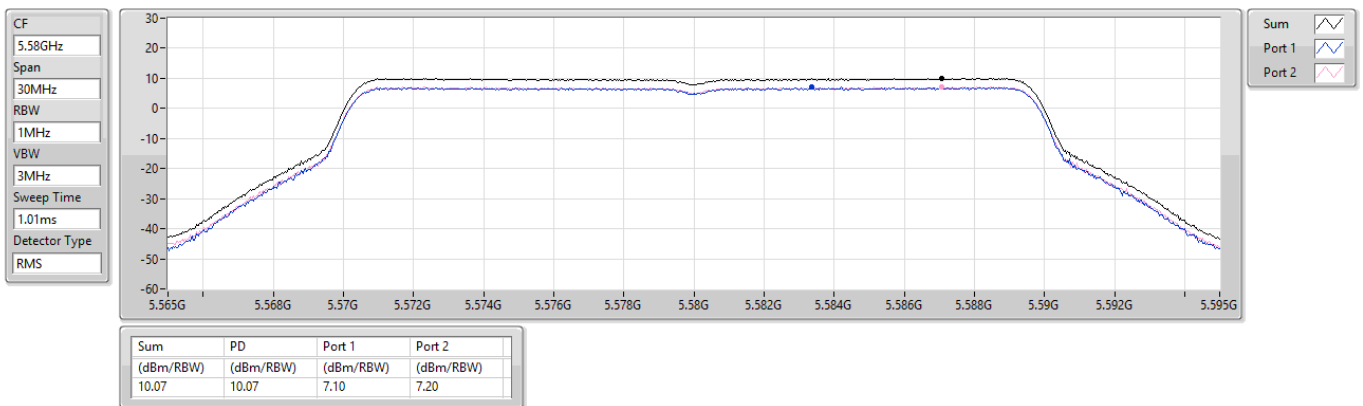
5500MHz



5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

5580MHz

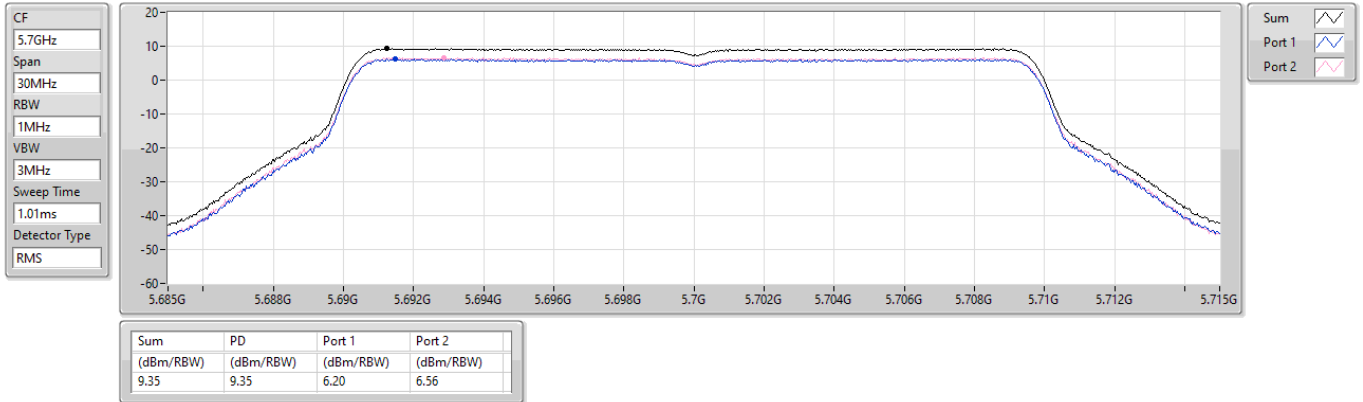




5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

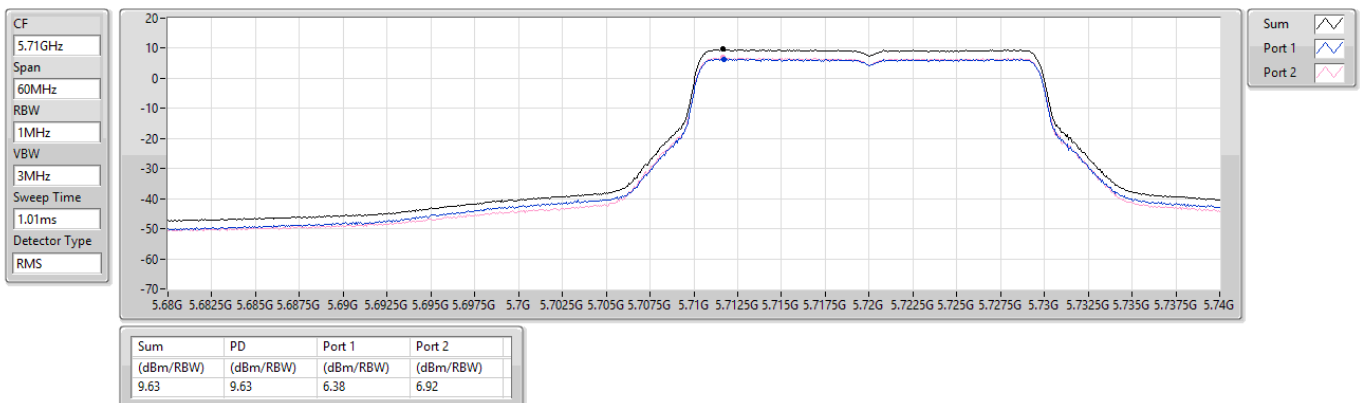
5700MHz



5.47-5.725GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

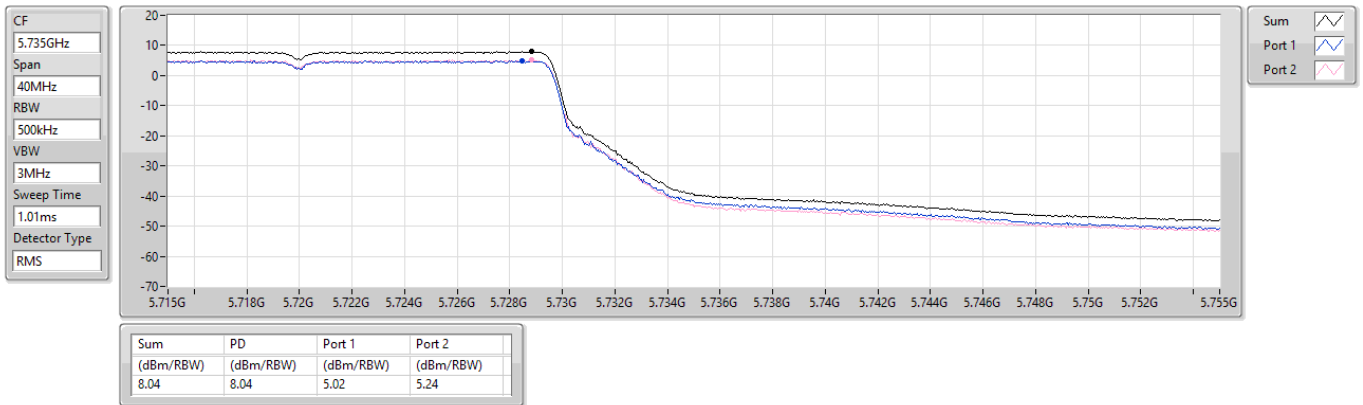
5720MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

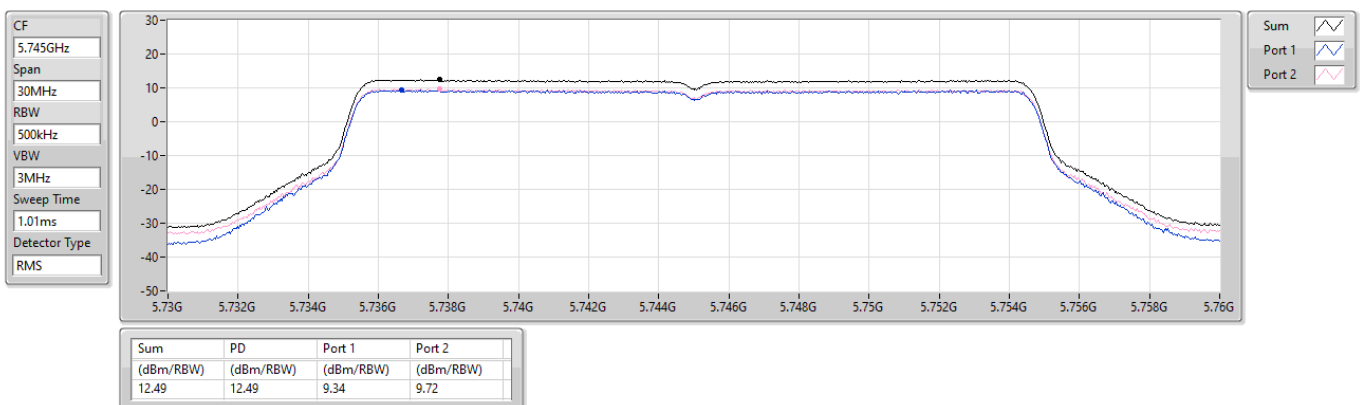
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

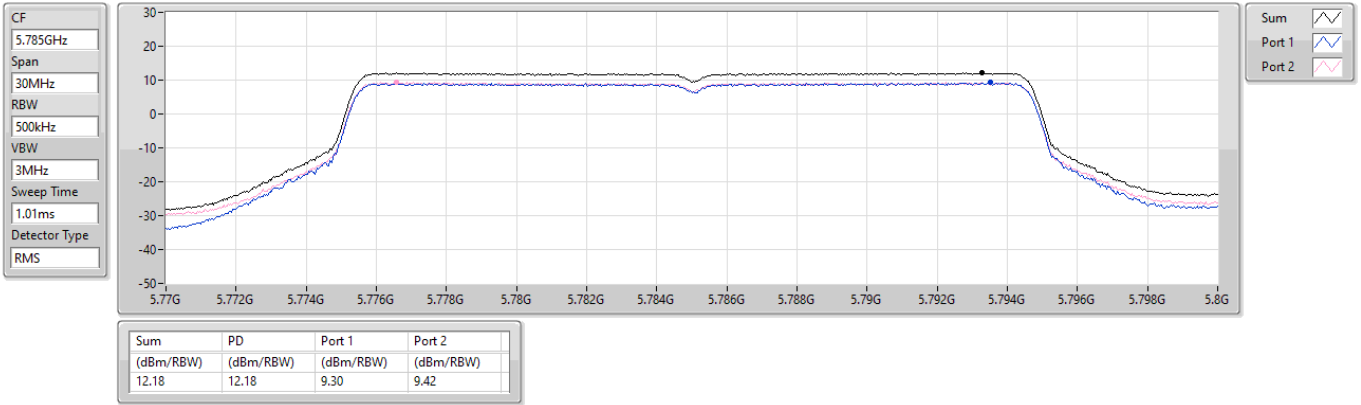
5745MHz



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

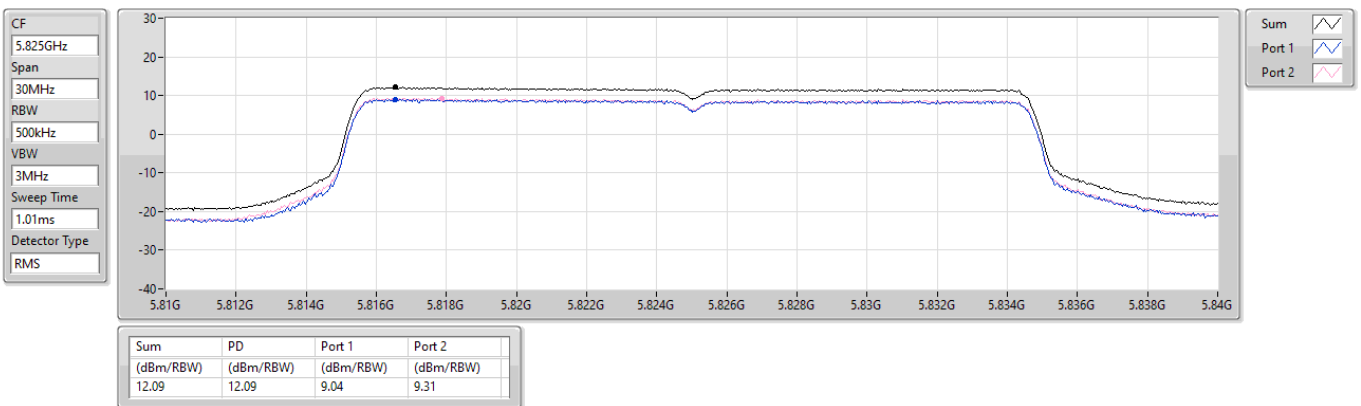
5785MHz



5.725-5.85GHz_802.11be EHT20_Nss2,(MCS0)_2TX

PSD

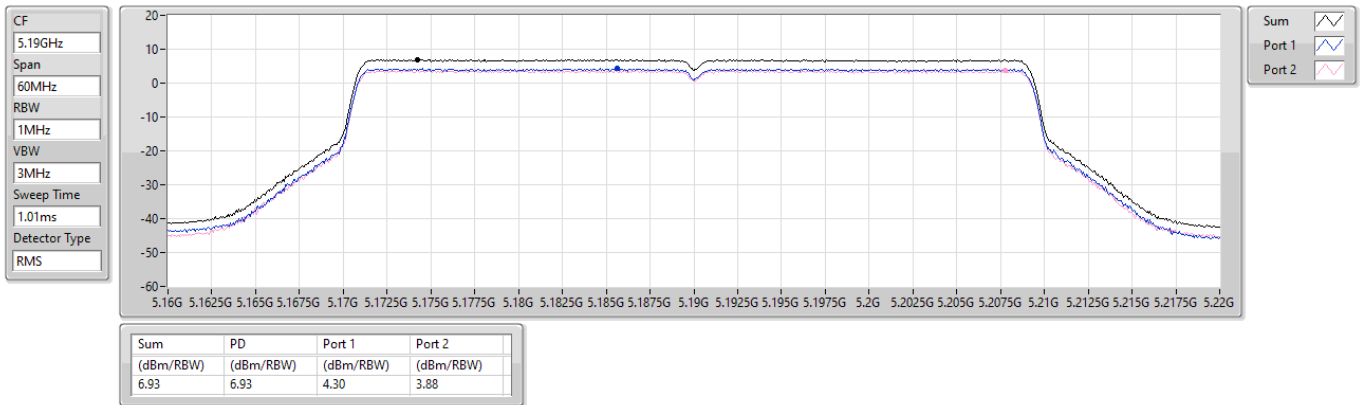
5825MHz



5.15-5.25GHz_802.11be EHT40_Nss2,(MCS0)_2TX

PSD

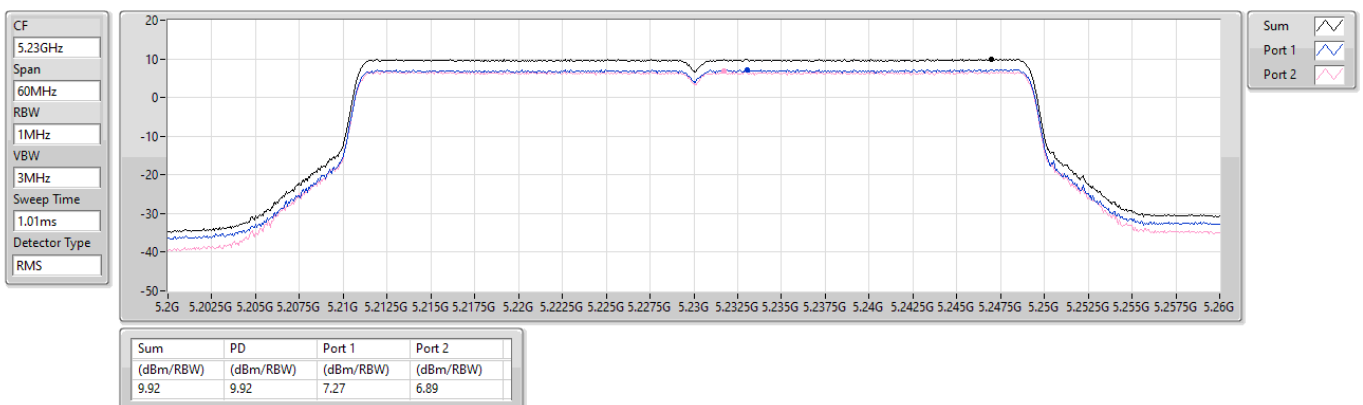
5190MHz



5.15-5.25GHz_802.11be EHT40_Nss2,(MCS0)_2TX

PSD

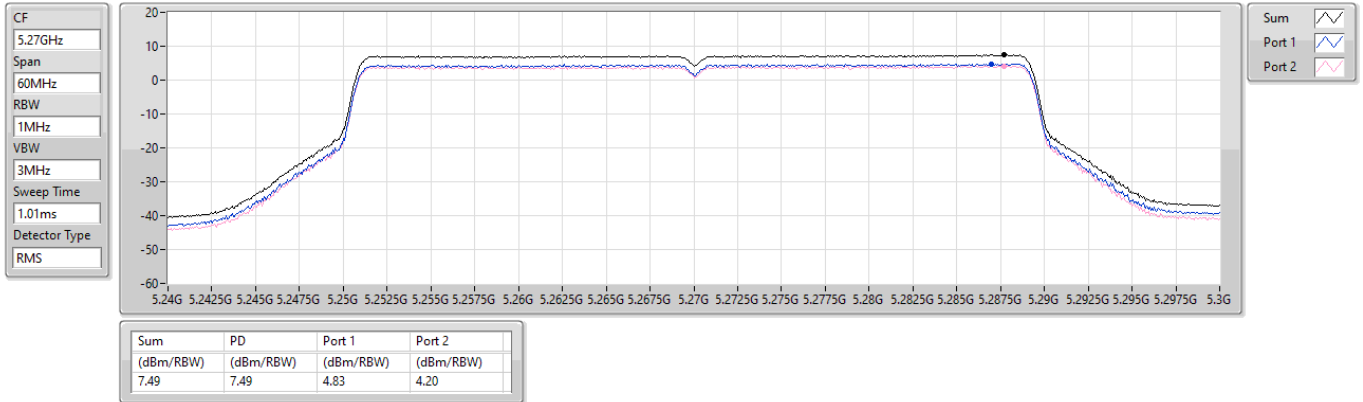
5230MHz



5.25-5.35GHz_802.11be EHT40_Nss2,(MCS0)_2TX

PSD

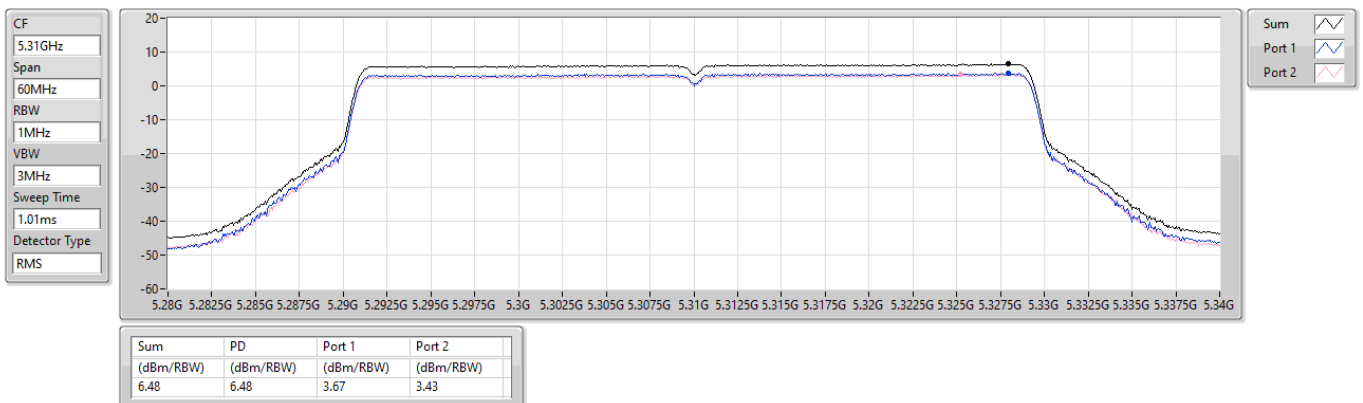
5270MHz



5.25-5.35GHz_802.11be EHT40_Nss2,(MCS0)_2TX

PSD

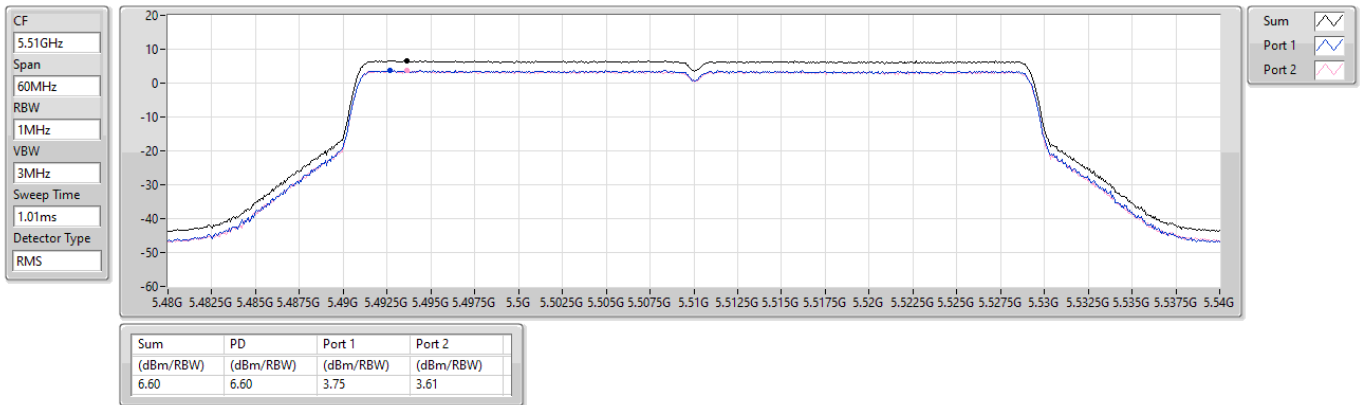
5310MHz



5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX

PSD

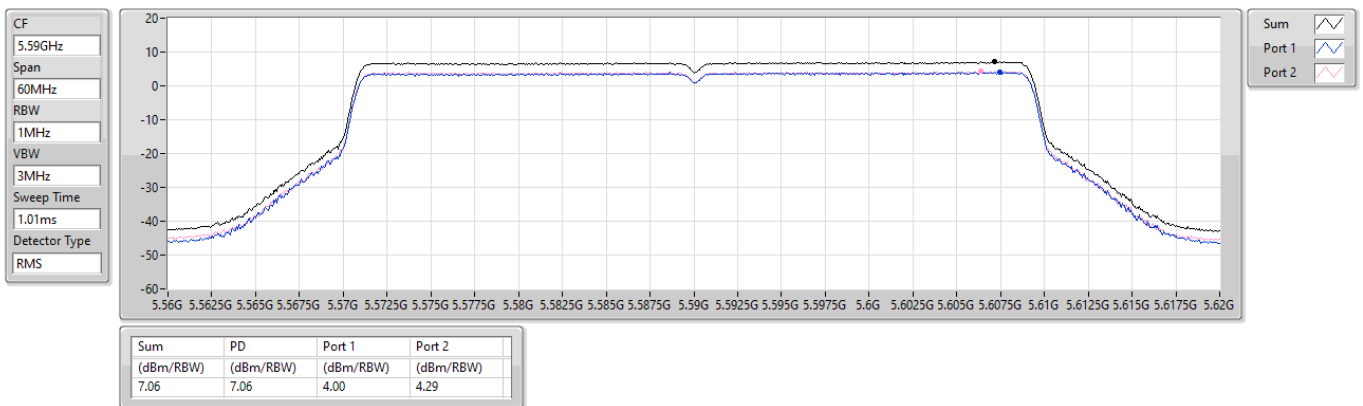
5510MHz



5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX

PSD

5590MHz

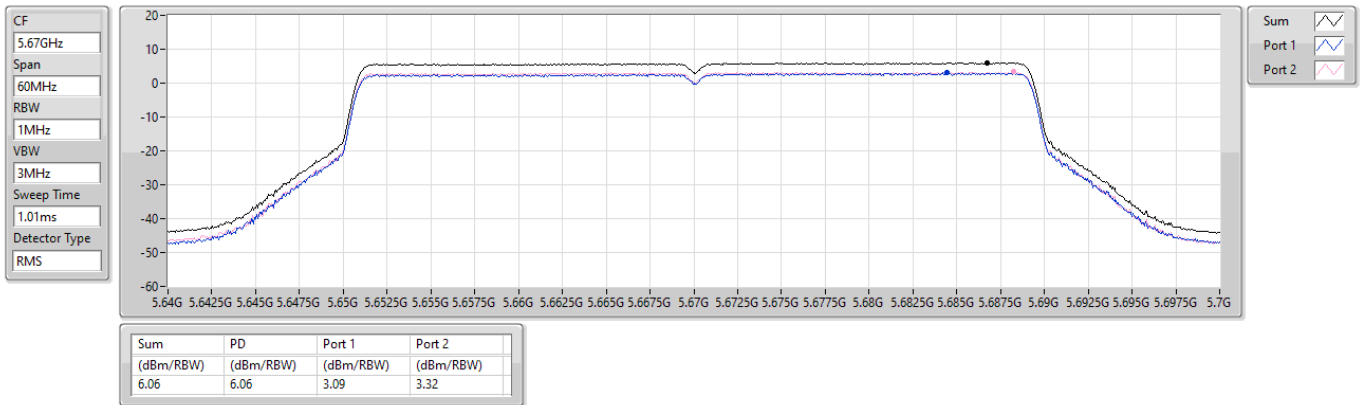




5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX

PSD

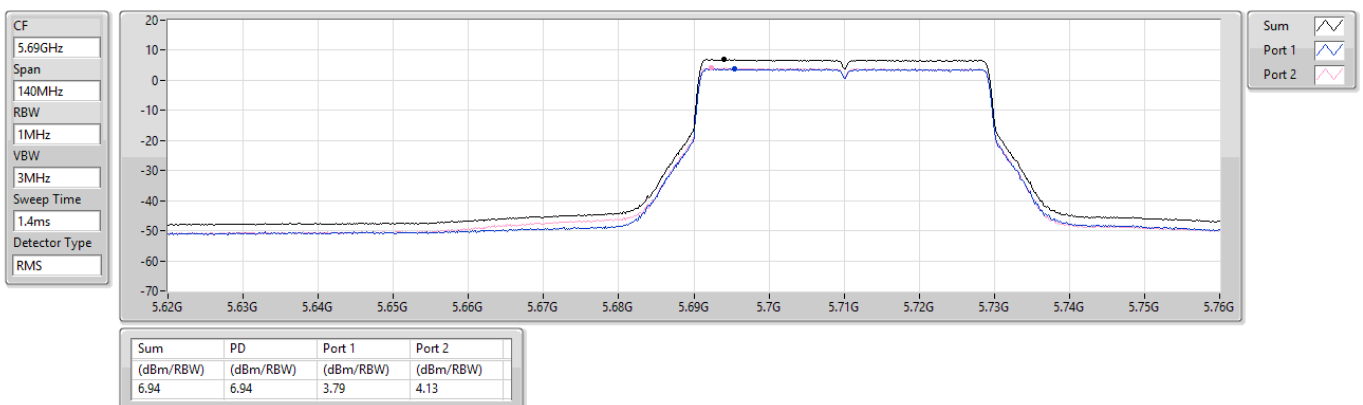
5670MHz



5.47-5.725GHz_802.11be EHT40_Nss2,(MCS0)_2TX

PSD

5710MHz Straddle 5.47-5.725GHz

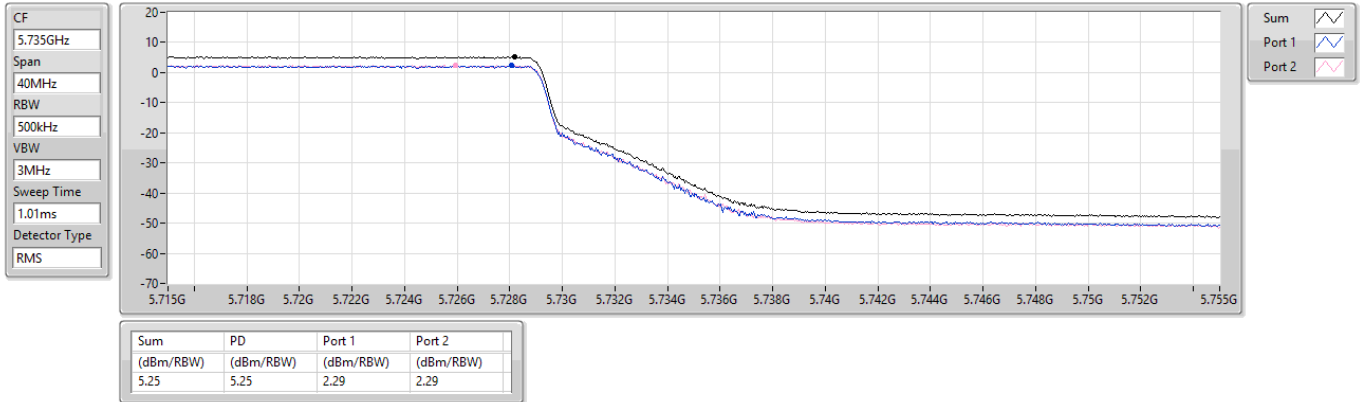




5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX

PSD

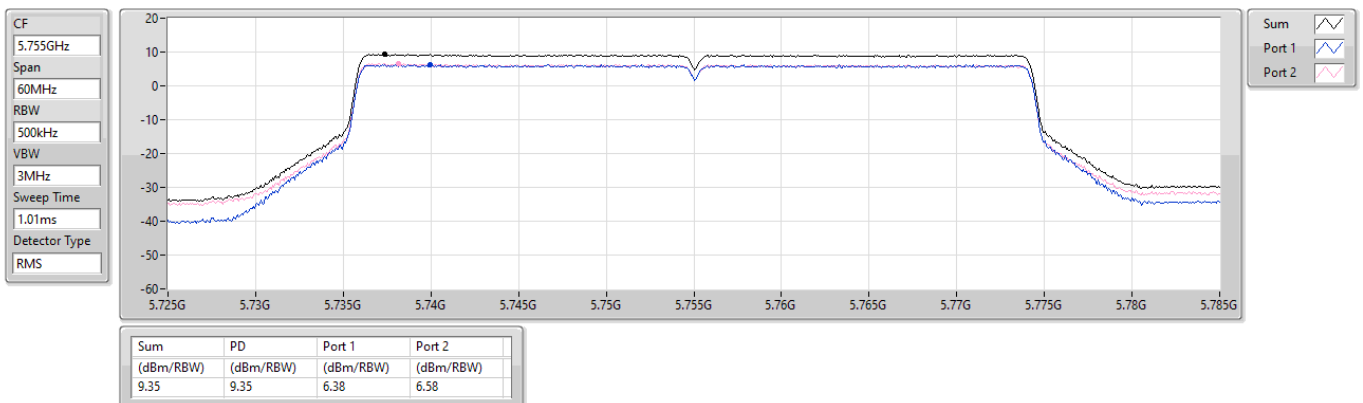
5710MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX

PSD

5755MHz

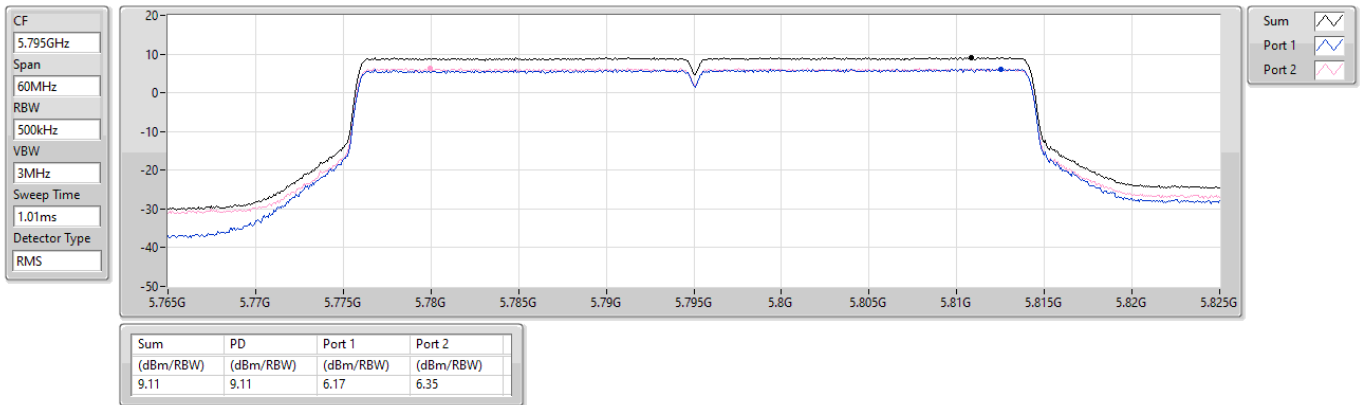




5.725-5.85GHz_802.11be EHT40_Nss2,(MCS0)_2TX

PSD

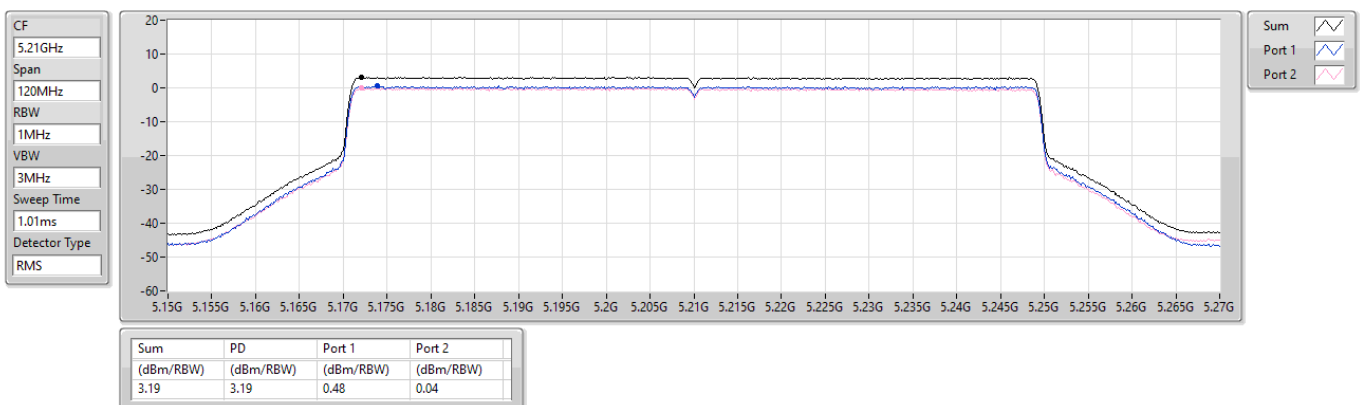
5795MHz



5.15-5.25GHz_802.11be EHT80_Nss2,(MCS0)_2TX

PSD

5210MHz



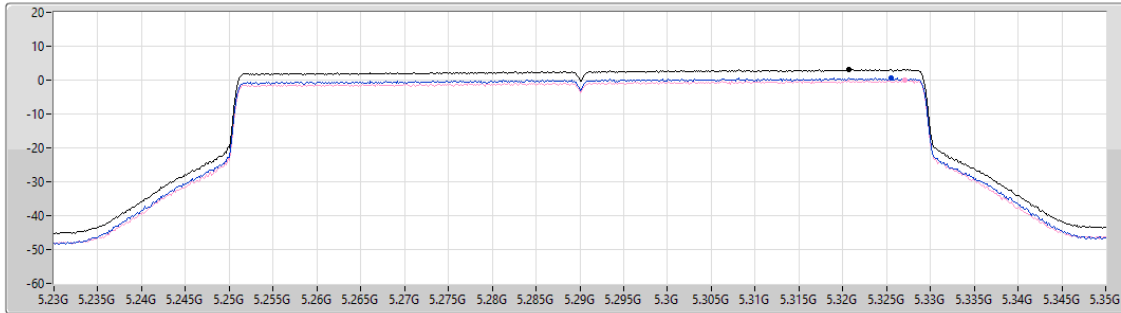


5.25-5.35GHz_802.11be EHT80_Nss2,(MCS0)_2TX

PSD

5290MHz

CF
5.29GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



Sum
Port 1
Port 2

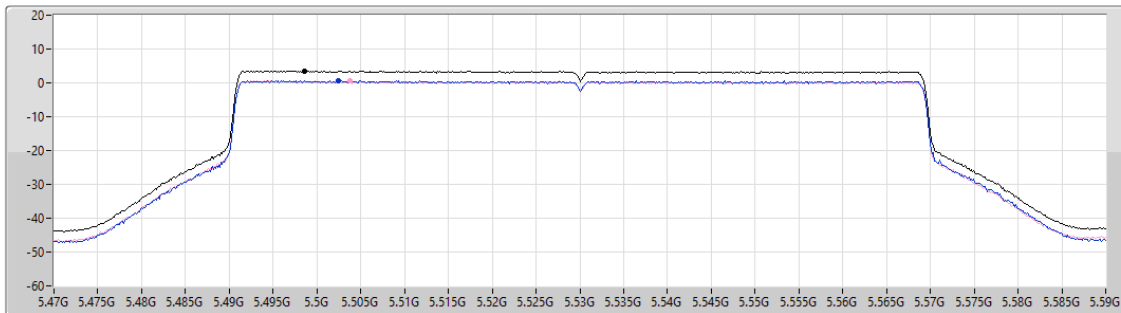
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.19	3.19	0.54	-0.10

5.47-5.725GHz_802.11be EHT80_Nss2,(MCS0)_2TX

PSD

5530MHz

CF
5.53GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



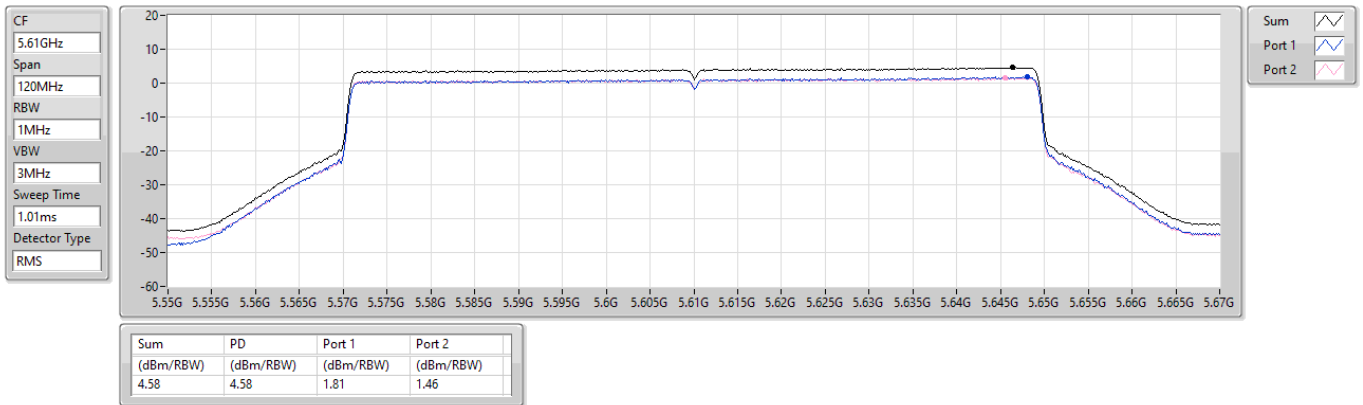
Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.51	3.51	0.65	0.57

5.47-5.725GHz_802.11be EHT80_Nss2,(MCS0)_2TX

PSD

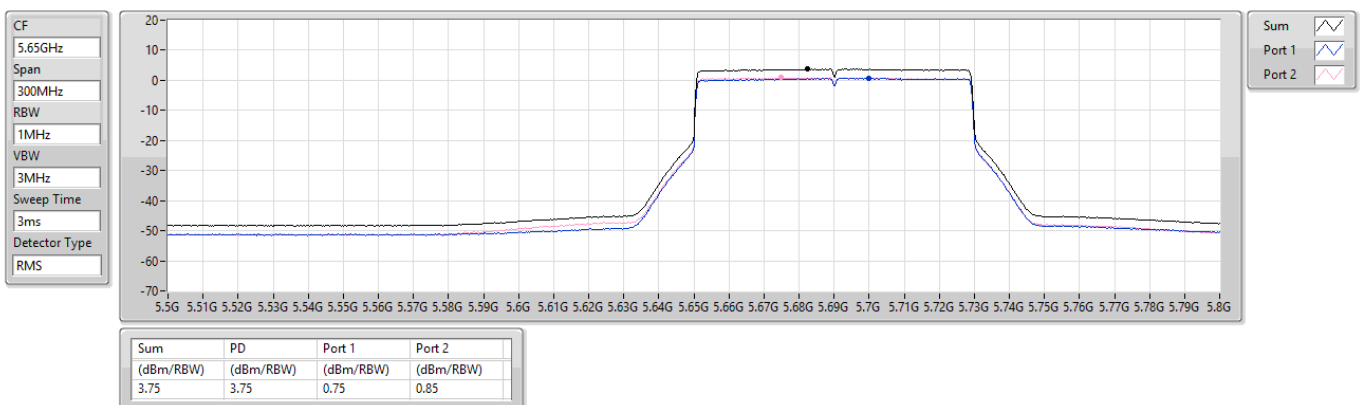
5610MHz



5.47-5.725GHz_802.11be EHT80_Nss2,(MCS0)_2TX

PSD

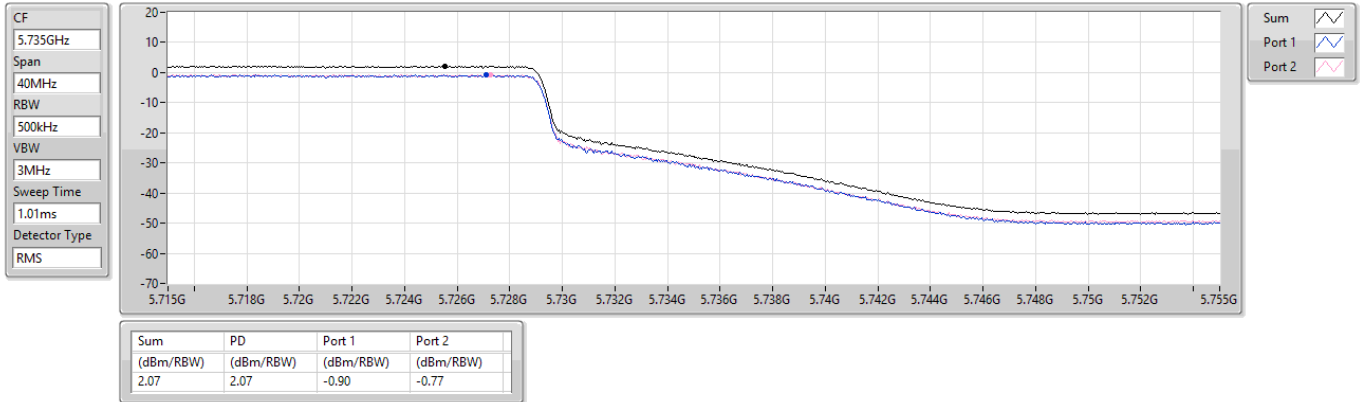
5690MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11be EHT80_Nss2,(MCS0)_2TX

PSD

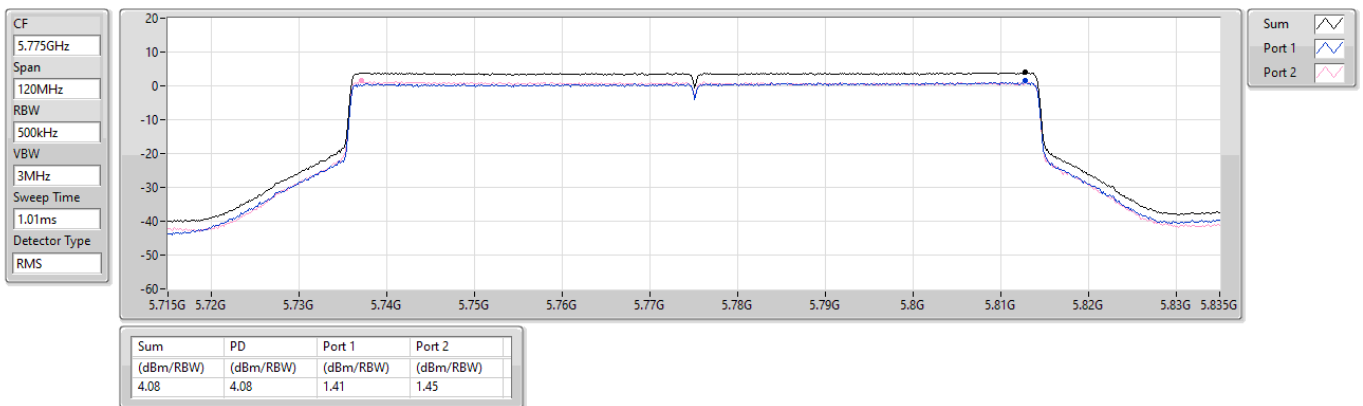
5690MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT80_Nss2,(MCS0)_2TX

PSD

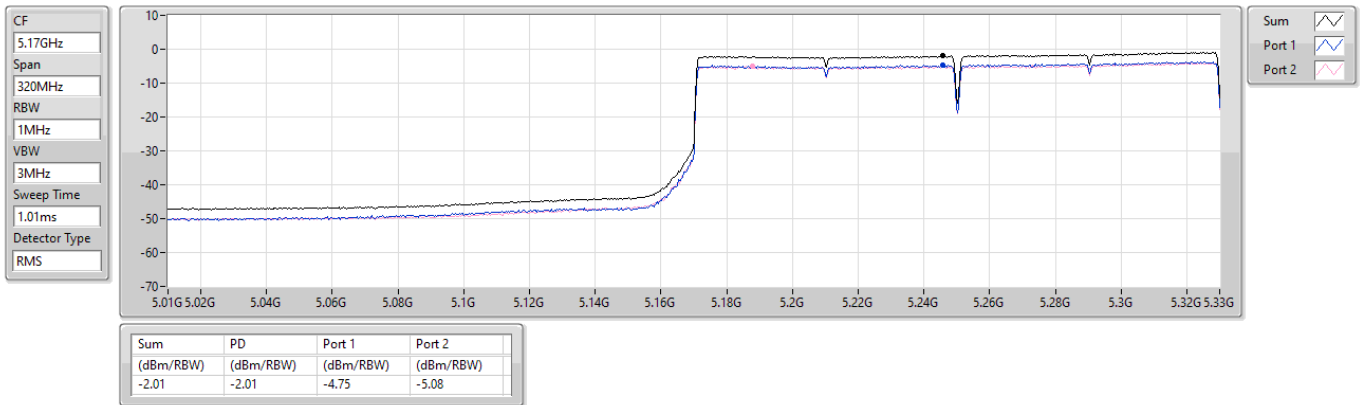
5775MHz



5.15-5.25GHz_802.11be EHT160_Nss2,(MCS0)_2TX

PSD

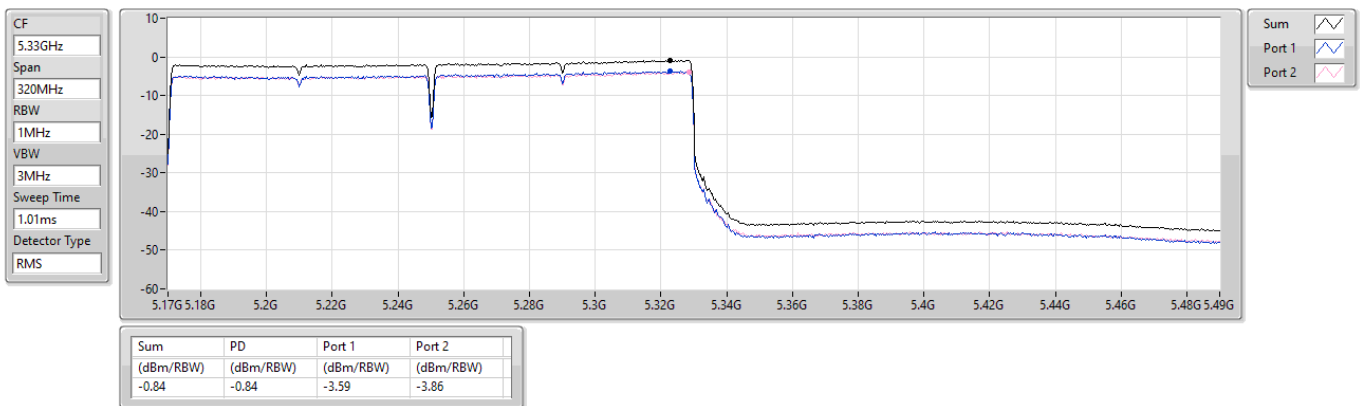
5250MHz Straddle 5.15-5.25GHz



5.25-5.35GHz_802.11be EHT160_Nss2,(MCS0)_2TX

PSD

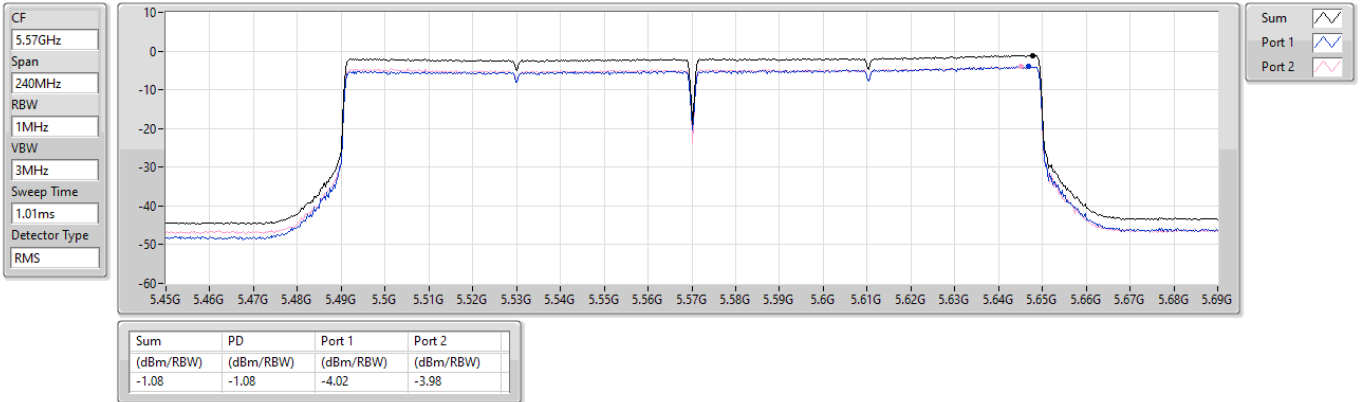
5250MHz Straddle 5.25-5.35GHz



5.47-5.725GHz_802.11be EHT160_Nss2,(MCS0)_2TX

PSD

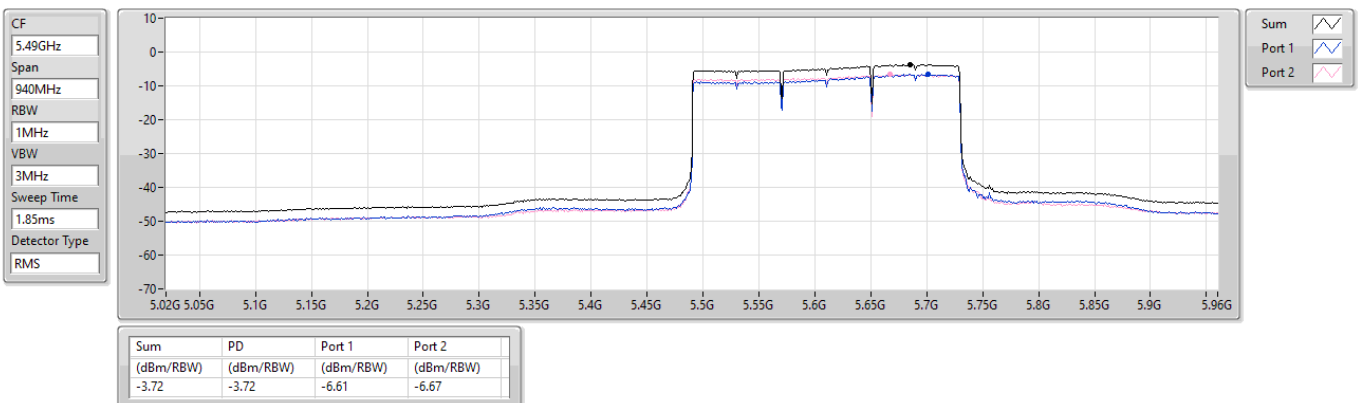
5570MHz



5.47-5.725GHz_be240_240MHz_Nss2,(MCS0)_2TX

PSD

5610MHz Straddle 5.47-5.725GHz

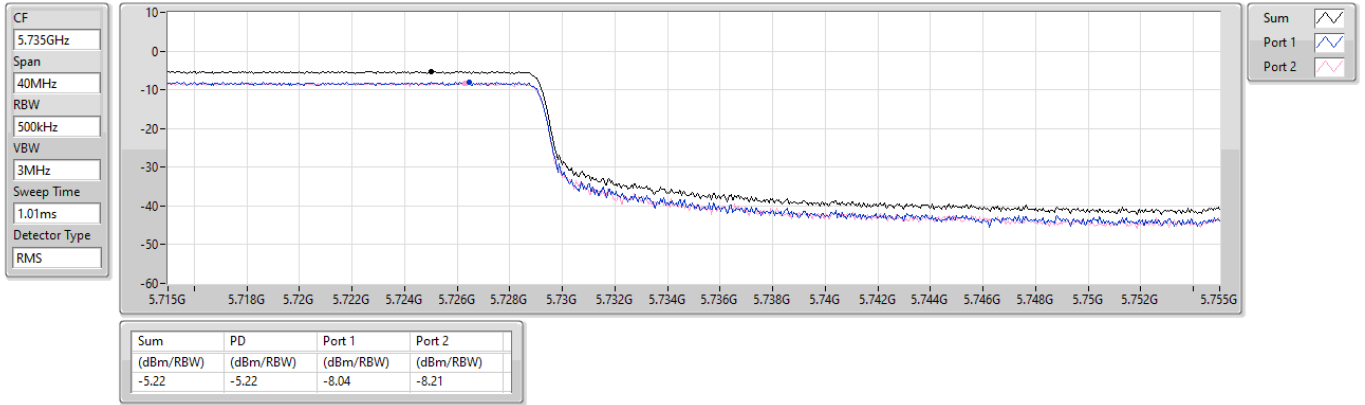




5.725-5.85GHz_be240_240MHz_Nss2,(MCS0)_2TX

PSD

5610MHz Straddle 5.725-5.85GHz





Unwanted Emissions (Below 1GHz)

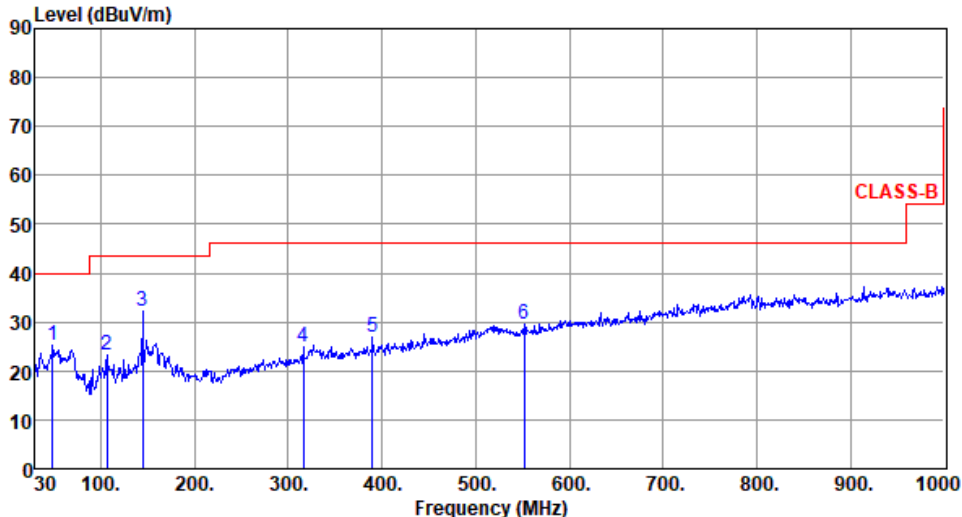
Adapter mode

Modulation	be EHT20	Test Freq. (MHz)	5240																																																															
Polarization	Horizontal																																																																	
Test By :Roger Lu Temperature(°C):25 Humidity(%):61																																																																		
Level (dBuV/m) Frequency (MHz) <table><tr><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>69.77</td><td>23.69</td><td>40.00</td><td>-16.31</td><td>34.27</td><td>-10.58</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>106.63</td><td>22.61</td><td>43.50</td><td>-20.89</td><td>34.40</td><td>-11.79</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>144.46</td><td>32.13</td><td>43.50</td><td>-11.37</td><td>40.78</td><td>-8.65</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>330.70</td><td>26.88</td><td>46.00</td><td>-19.12</td><td>33.68</td><td>-6.80</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>445.16</td><td>28.24</td><td>46.00</td><td>-17.76</td><td>31.87</td><td>-3.63</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>569.32</td><td>29.33</td><td>46.00</td><td>-16.67</td><td>30.39</td><td>-1.06</td><td>Peak</td><td>---</td><td>---</td></tr></table>				Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	69.77	23.69	40.00	-16.31	34.27	-10.58	Peak	---	---	106.63	22.61	43.50	-20.89	34.40	-11.79	Peak	---	---	144.46	32.13	43.50	-11.37	40.78	-8.65	Peak	---	---	330.70	26.88	46.00	-19.12	33.68	-6.80	Peak	---	---	445.16	28.24	46.00	-17.76	31.87	-3.63	Peak	---	---	569.32	29.33	46.00	-16.67	30.39	-1.06	Peak	---	---
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																										
69.77	23.69	40.00	-16.31	34.27	-10.58	Peak	---	---																																																										
106.63	22.61	43.50	-20.89	34.40	-11.79	Peak	---	---																																																										
144.46	32.13	43.50	-11.37	40.78	-8.65	Peak	---	---																																																										
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																		

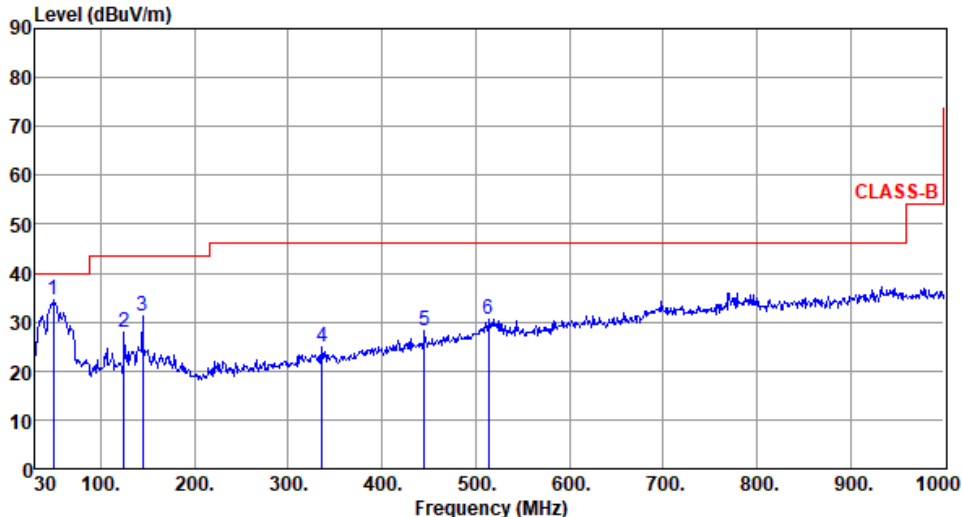


Modulation	be EHT20	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):25 Humidity(%):61			
Level (dBuV/m) </			



Modulation	be EHT20	Test Freq. (MHz)	5745																																																																						
Polarization	Horizontal																																																																								
Test By :Roger Lu Temperature(°C):25 Humidity(%):61																																																																									
Level (dBuV/m)  <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>48.43</td><td>25.22</td><td>40.00</td><td>-14.78</td><td>33.14</td><td>-7.92</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>106.63</td><td>23.39</td><td>43.50</td><td>-20.11</td><td>35.18</td><td>-11.79</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>144.46</td><td>32.15</td><td>43.50</td><td>-11.35</td><td>40.80</td><td>-8.65</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>316.15</td><td>24.94</td><td>46.00</td><td>-21.06</td><td>32.20</td><td>-7.26</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>389.87</td><td>26.77</td><td>46.00</td><td>-19.23</td><td>31.95</td><td>-5.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>551.86</td><td>29.51</td><td>46.00</td><td>-16.49</td><td>30.89</td><td>-1.38</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	48.43	25.22	40.00	-14.78	33.14	-7.92	Peak	---	---	2	106.63	23.39	43.50	-20.11	35.18	-11.79	Peak	---	---	3	144.46	32.15	43.50	-11.35	40.80	-8.65	Peak	---	---	4	316.15	24.94	46.00	-21.06	32.20	-7.26	Peak	---	---	5	389.87	26.77	46.00	-19.23	31.95	-5.18	Peak	---	---	6	551.86	29.51	46.00	-16.49	30.89	-1.38	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																
1	48.43	25.22	40.00	-14.78	33.14	-7.92	Peak	---	---																																																																
2	106.63	23.39	43.50	-20.11	35.18	-11.79	Peak	---	---																																																																
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5	389.87	26.77	46.00	-19.23	31.95	-5.18	Peak	---	---																																																																
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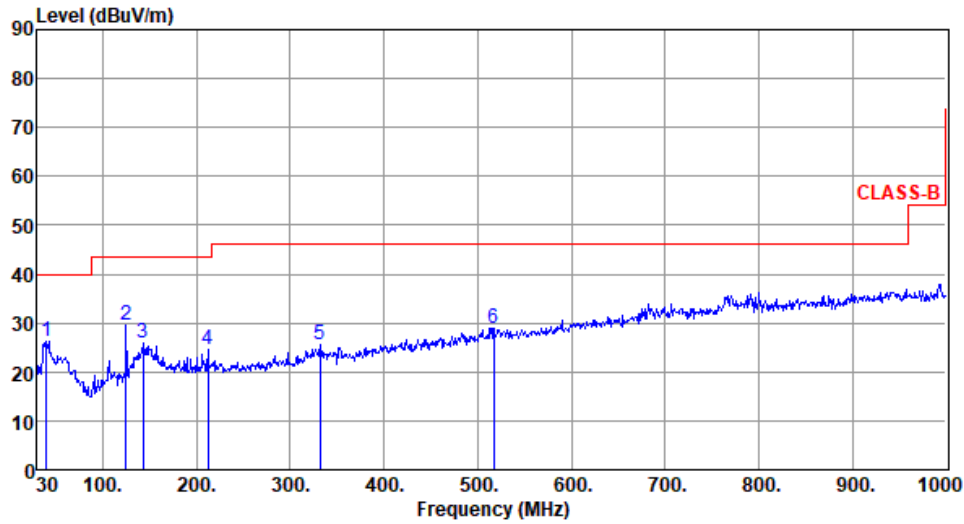
Modulation	be EHT20	Test Freq. (MHz)	5745																																																																						
Polarization	Vertical																																																																								
Test By :Roger Lu Temperature(°C):25 Humidity(%):61																																																																									
Level (dBUV/m)  <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>49.40</td><td>34.59</td><td>40.00</td><td>-5.41</td><td>42.70</td><td>-8.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>125.06</td><td>27.86</td><td>43.50</td><td>-15.64</td><td>38.38</td><td>-10.52</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>144.46</td><td>31.11</td><td>43.50</td><td>-12.39</td><td>39.76</td><td>-8.65</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>336.52</td><td>25.02</td><td>46.00</td><td>-20.98</td><td>31.79</td><td>-6.77</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>445.16</td><td>28.30</td><td>46.00</td><td>-17.70</td><td>31.93</td><td>-3.63</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>514.03</td><td>30.62</td><td>46.00</td><td>-15.38</td><td>32.75</td><td>-2.13</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	49.40	34.59	40.00	-5.41	42.70	-8.11	Peak	---	---	2	125.06	27.86	43.50	-15.64	38.38	-10.52	Peak	---	---	3	144.46	31.11	43.50	-12.39	39.76	-8.65	Peak	---	---	4	336.52	25.02	46.00	-20.98	31.79	-6.77	Peak	---	---	5	445.16	28.30	46.00	-17.70	31.93	-3.63	Peak	---	---	6	514.03	30.62	46.00	-15.38	32.75	-2.13	Peak	---	---
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																
1	49.40	34.59	40.00	-5.41	42.70	-8.11	Peak	---	---																																																																
2	125.06	27.86	43.50	-15.64	38.38	-10.52	Peak	---	---																																																																
3	144.46	31.11	43.50	-12.39	39.76	-8.65	Peak	---	---																																																																
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6	514.03	30.62	46.00	-15.38	32.75	-2.13	Peak	---	---																																																																
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																									



POE mode

Modulation	be EHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		

Test By :Roger Lu Temperature(°C):25 Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	39.70	26.37	40.00	-13.63	35.15	-8.78	Peak	---	---
2	125.06	29.69	43.50	-13.81	40.21	-10.52	Peak	---	---
3	142.52	25.97	43.50	-17.53	34.74	-8.77	Peak	---	---
4	212.36	24.60	43.50	-18.90	36.45	-11.85	Peak	---	---
5	331.67	25.49	46.00	-20.51	32.29	-6.80	Peak	---	---
6	516.94	28.89	46.00	-17.11	30.97	-2.08	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Modulation	be EHT20	Test Freq. (MHz)	5240																																																																																
Polarization	Vertical																																																																																		
Test By :Roger Lu Temperature(°C):25 Humidity(%):61																																																																																			
Level (dBUV/m) <table><tr><th></th><th>Freq.</th><th>Emission level</th><th>Limit</th><th>Margin</th><th>SA reading</th><th>Factor</th><th>Remark</th><th>ANT High</th><th>Turn Table</th></tr><tr><th></th><th>MHz</th><th>dBUV/m</th><th>dBUV/m</th><th>dB</th><th>dBUV</th><th>dB/m</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>39.70</td><td>35.69</td><td>40.00</td><td>-4.31</td><td>44.47</td><td>-8.78</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>58.13</td><td>29.56</td><td>40.00</td><td>-10.44</td><td>38.01</td><td>-8.45</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>125.06</td><td>29.08</td><td>43.50</td><td>-14.42</td><td>39.60</td><td>-10.52</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>206.54</td><td>22.67</td><td>43.50</td><td>-20.83</td><td>34.49</td><td>-11.82</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>445.16</td><td>28.82</td><td>46.00</td><td>-17.18</td><td>32.45</td><td>-3.63</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>517.91</td><td>30.95</td><td>46.00</td><td>-15.05</td><td>32.99</td><td>-2.04</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table		MHz	dBUV/m	dBUV/m	dB	dBUV	dB/m		cm	deg	1	39.70	35.69	40.00	-4.31	44.47	-8.78	Peak	---	---	2	58.13	29.56	40.00	-10.44	38.01	-8.45	Peak	---	---	3	125.06	29.08	43.50	-14.42	39.60	-10.52	Peak	---	---	4	206.54	22.67	43.50	-20.83	34.49	-11.82	Peak	---	---	5	445.16	28.82	46.00	-17.18	32.45	-3.63	Peak	---	---	6	517.91	30.95	46.00	-15.05	32.99	-2.04	Peak	---	---
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Modulation	be EHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):25 Humidity(%):61			
Level (dBUV/m)			



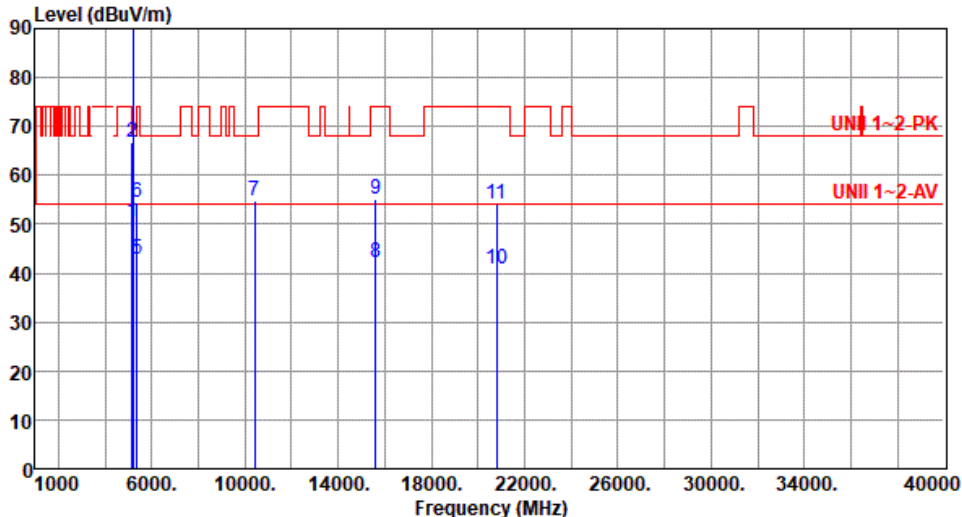
Modulation	be EHT20	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):25 Humidity(%):61			
Level (dBUV/m) </			

Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Sena Yu Temperature(°C):24 Humidity(%):65			
Level (dBuV/m) <			



Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		
Test By :Sena Yu Temperature(°C):24 Humidity(%):65			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5200																																																																																																																								
Polarization	Horizontal																																																																																																																										
Test By :Sena Yu Temperature(°C):24 Humidity(%):65																																																																																																																											
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>50.58</td><td>54.00</td><td>-3.42</td><td>50.03</td><td>0.55</td><td>Average</td><td>100</td><td>281</td></tr><tr><td>2</td><td>5150.00</td><td>66.72</td><td>74.00</td><td>-7.28</td><td>66.17</td><td>0.55</td><td>Peak</td><td>100</td><td>281</td></tr><tr><td>3 *</td><td>5200.00</td><td>104.67</td><td></td><td></td><td>104.41</td><td>0.26</td><td>Average</td><td>100</td><td>291</td></tr><tr><td>4 *</td><td>5200.00</td><td>114.84</td><td></td><td></td><td>114.58</td><td>0.26</td><td>Peak</td><td>100</td><td>291</td></tr><tr><td>5</td><td>5350.00</td><td>42.72</td><td>54.00</td><td>-11.28</td><td>42.78</td><td>-0.06</td><td>Average</td><td>100</td><td>291</td></tr><tr><td>6</td><td>5350.00</td><td>54.62</td><td>74.00</td><td>-19.38</td><td>54.68</td><td>-0.06</td><td>Peak</td><td>100</td><td>291</td></tr><tr><td>7</td><td>10400.00</td><td>54.91</td><td>68.20</td><td>-13.29</td><td>46.55</td><td>8.36</td><td>Peak</td><td>100</td><td>116</td></tr><tr><td>8</td><td>15600.00</td><td>42.10</td><td>54.00</td><td>-11.90</td><td>37.23</td><td>4.87</td><td>Average</td><td>100</td><td>276</td></tr><tr><td>9</td><td>15600.00</td><td>55.26</td><td>74.00</td><td>-18.74</td><td>50.39</td><td>4.87</td><td>Peak</td><td>100</td><td>276</td></tr><tr><td>10</td><td>20800.00</td><td>40.93</td><td>54.00</td><td>-13.07</td><td>37.40</td><td>3.53</td><td>Average</td><td>100</td><td>125</td></tr><tr><td>11</td><td>20800.00</td><td>54.03</td><td>74.00</td><td>-19.97</td><td>50.50</td><td>3.53</td><td>Peak</td><td>100</td><td>125</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3:"*" is Peak / Average value of fundamental frequency.					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	50.58	54.00	-3.42	50.03	0.55	Average	100	281	2	5150.00	66.72	74.00	-7.28	66.17	0.55	Peak	100	281	3 *	5200.00	104.67			104.41	0.26	Average	100	291	4 *	5200.00	114.84			114.58	0.26	Peak	100	291	5	5350.00	42.72	54.00	-11.28	42.78	-0.06	Average	100	291	6	5350.00	54.62	74.00	-19.38	54.68	-0.06	Peak	100	291	7	10400.00	54.91	68.20	-13.29	46.55	8.36	Peak	100	116	8	15600.00	42.10	54.00	-11.90	37.23	4.87	Average	100	276	9	15600.00	55.26	74.00	-18.74	50.39	4.87	Peak	100	276	10	20800.00	40.93	54.00	-13.07	37.40	3.53	Average	100	125	11	20800.00	54.03	74.00	-19.97	50.50	3.53	Peak	100	125
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Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		
Test By :Sena Yu Temperature(°C):24 Humidity(%):65			
Level (dBUV/m)			



Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Sena Yu Temperature(°C):24 Humidity(%):65			
Level (dBuV/m) <			



Modulation	11a	Test Freq. (MHz)	5240																																																																																																				
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Modulation	11a	Test Freq. (MHz)	5260																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Sena Yu Temperature(°C):24 Humidity(%):65																																																																																																							
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Modulation	11a	Test Freq. (MHz)	5300						
Polarization	Horizontal								
Test By :Sena Yu Temperature(°C):24 Humidity(%):65									
Level (dBuV/m) Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5150.00	43.19	54.00	-10.81	42.64	0.55	Average	100	282
2	5150.00	56.39	74.00	-17.61	55.84	0.55	Peak	100	282
3 *	5300.00	101.14			101.33	-0.19	Average	100	282
4 *	5300.00	111.25			111.44	-0.19	Peak	100	282
5	5350.00	43.56	54.00	-10.44	43.62	-0.06	Average	100	282
6	5350.00	56.78	74.00	-17.22	56.84	-0.06	Peak	100	282
7	10600.00	42.11	54.00	-11.89	33.58	8.53	Average	100	204
8	10600.00	55.27	74.00	-18.73	46.74	8.53	Peak	100	204
9	15900.00	42.58	54.00	-11.42	37.26	5.32	Average	100	176
10	15900.00	55.61	74.00	-18.39	50.29	5.32	Peak	100	176
11	21200.00	41.44	54.00	-12.56	37.24	4.20	Average	100	125
12	21200.00	54.33	74.00	-19.67	50.13	4.20	Peak	100	125

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3:"*" is Peak / Average value of fundamental frequency.



Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		
Test By :Sena Yu Temperature(°C):24 Humidity(%):65			
Level (dBuV/m) <			



Modulation	11a	Test Freq. (MHz)	5320																																																																																																																									
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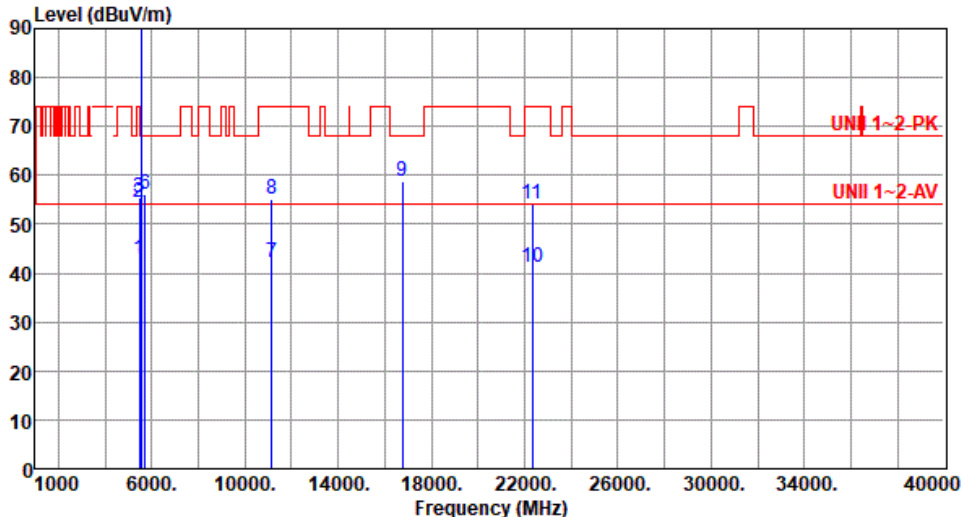
Modulation	11a	Test Freq. (MHz)	5320																																																																																																																									
Polarization	Vertical																																																																																																																											
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Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :Sena Yu Temperature(°C):24 Humidity(%):65			
Level (dBUV/m)			



Modulation	11a	Test Freq. (MHz)	5500																																																																																										
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Modulation	11a	Test Freq. (MHz)	5580						
Polarization	Horizontal								
Test By :Sena Yu Temperature(°C):24 Humidity(%):65									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	42.81	54.00	-11.19	42.49	0.32	Average	100	262
2	5460.00	54.58	74.00	-19.42	54.26	0.32	Peak	100	262
3	5470.00	55.59	68.20	-12.61	55.23	0.36	Peak	100	262
4 *	5580.00	101.06			100.53	0.53	Average	100	262
5 *	5580.00	111.07			110.54	0.53	Peak	100	262
6	5725.00	56.13	68.20	-12.07	55.48	0.65	Peak	100	262
7	11160.00	42.10	54.00	-11.90	33.79	8.31	Average	100	247
8	11160.00	55.26	74.00	-18.74	46.95	8.31	Peak	100	247
9	16740.00	58.77	68.20	-9.43	50.64	8.13	Peak	100	247
10	22320.00	41.06	54.00	-12.94	35.48	5.58	Average	100	158
11	22320.00	54.27	74.00	-19.73	48.69	5.58	Peak	100	158

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3:"*" is Peak / Average value of fundamental frequency.



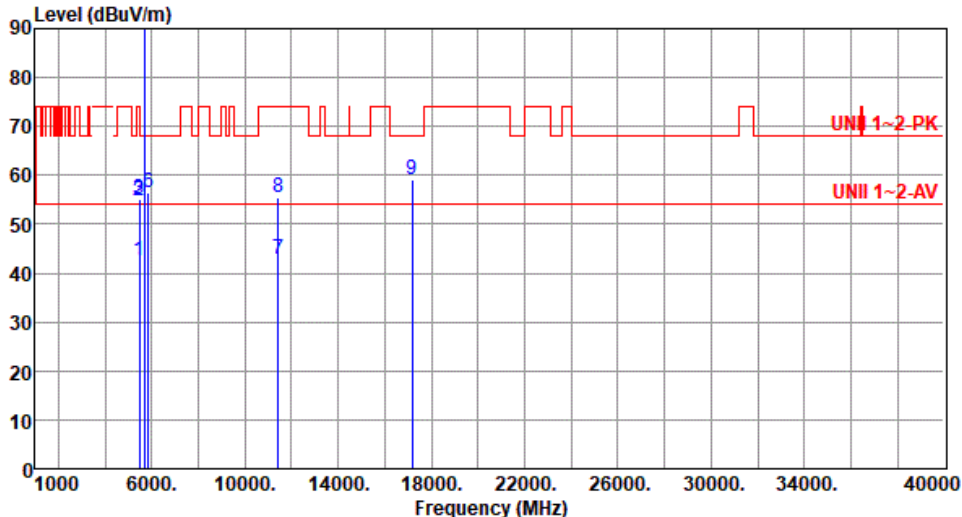
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :Sena Yu Temperature(°C):24 Humidity(%):65			
Level (dBuV/m)			

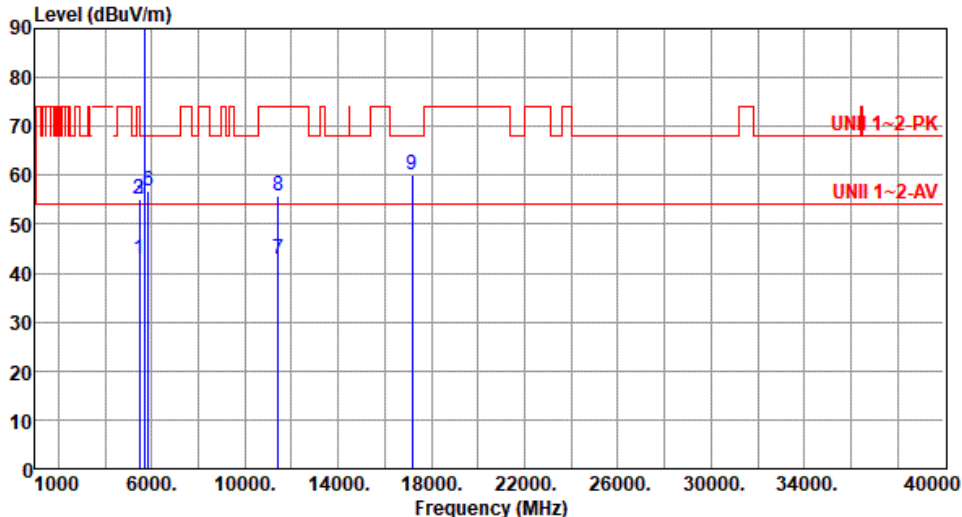


Modulation	11a	Test Freq. (MHz)	5700																																																																																										
Polarization	Horizontal																																																																																												
Test By :Sena Yu Temperature(°C):24 Humidity(%):65																																																																																													
Level (dBUV/m) Frequency (MHz) <table><thead><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBUV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBUV/m</th><th></th><th></th><th>dBUV</th><th></th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1 *</td><td>5700.00</td><td>101.59</td><td></td><td></td><td>100.99</td><td>0.60</td><td>Average</td><td>257</td><td>275</td></tr><tr><td>2 *</td><td>5700.00</td><td>110.96</td><td></td><td></td><td>110.36</td><td>0.60</td><td>Peak</td><td>257</td><td>275</td></tr><tr><td>3</td><td>5725.00</td><td>57.41</td><td>68.20</td><td>-10.79</td><td>56.76</td><td>0.65</td><td>Peak</td><td>257</td><td>275</td></tr><tr><td>4</td><td>11400.00</td><td>42.72</td><td>54.00</td><td>-11.28</td><td>34.36</td><td>8.36</td><td>Average</td><td>100</td><td>155</td></tr><tr><td>5</td><td>11400.00</td><td>55.63</td><td>74.00</td><td>-18.37</td><td>47.27</td><td>8.36</td><td>Peak</td><td>100</td><td>155</td></tr><tr><td>6</td><td>17100.00</td><td>58.99</td><td>68.20</td><td>-9.21</td><td>51.22</td><td>7.77</td><td>Peak</td><td>100</td><td>38</td></tr></tbody></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3:"*" is Peak / Average value of fundamental frequency.					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBUV/m	dB	reading	dB/m		High	Table			dBUV/m			dBUV			cm	deg	1 *	5700.00	101.59			100.99	0.60	Average	257	275	2 *	5700.00	110.96			110.36	0.60	Peak	257	275	3	5725.00	57.41	68.20	-10.79	56.76	0.65	Peak	257	275	4	11400.00	42.72	54.00	-11.28	34.36	8.36	Average	100	155	5	11400.00	55.63	74.00	-18.37	47.27	8.36	Peak	100	155	6	17100.00	58.99	68.20	-9.21	51.22	7.77	Peak	100	38
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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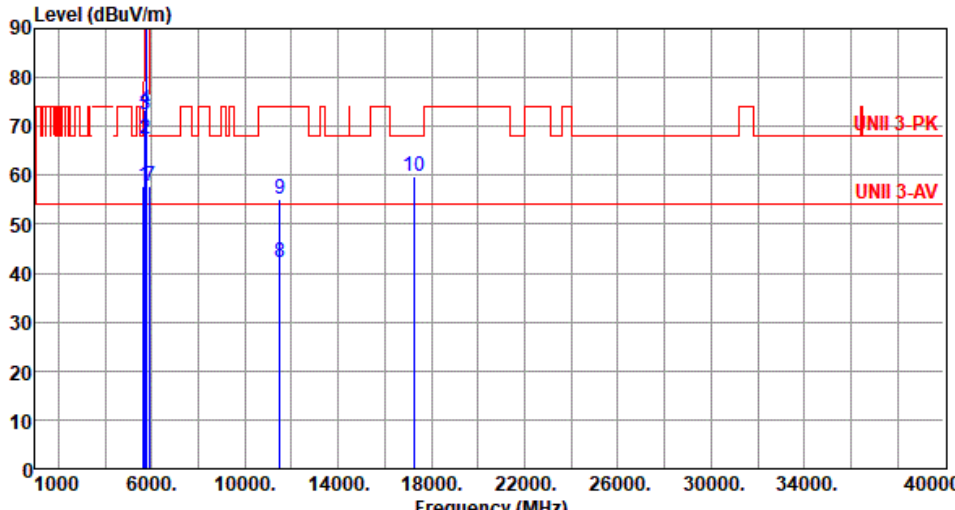


Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		
Test By :Sena Yu Temperature(°C):24 Humidity(%):65			
Level (dBuV/m)			

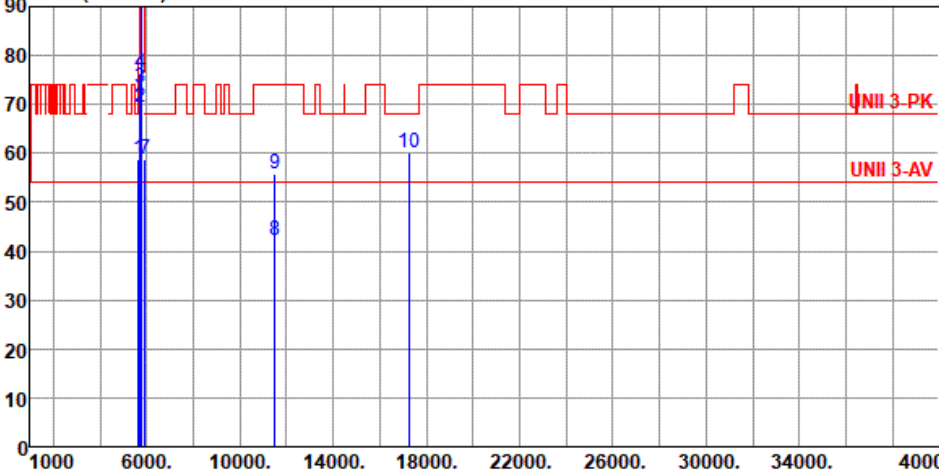
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Polarization	Vertical																																																																																																						
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Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5460.00</td><td>42.80</td><td>54.00</td><td>-11.20</td><td>42.48</td><td>0.32</td><td>Average</td><td>303</td><td>289</td></tr><tr><td>2</td><td>5460.00</td><td>54.98</td><td>74.00</td><td>-19.02</td><td>54.66</td><td>0.32</td><td>Peak</td><td>303</td><td>289</td></tr><tr><td>3</td><td>5470.00</td><td>55.12</td><td>68.20</td><td>-13.08</td><td>54.76</td><td>0.36</td><td>Peak</td><td>303</td><td>289</td></tr><tr><td>4 *</td><td>5720.00</td><td>105.68</td><td></td><td></td><td>105.04</td><td>0.64</td><td>Average</td><td>303</td><td>289</td></tr><tr><td>5 *</td><td>5720.00</td><td>115.75</td><td></td><td></td><td>115.11</td><td>0.64</td><td>Peak</td><td>303</td><td>289</td></tr><tr><td>6</td><td>5850.00</td><td>56.82</td><td>68.20</td><td>-11.38</td><td>55.74</td><td>1.08</td><td>Peak</td><td>303</td><td>289</td></tr><tr><td>7</td><td>11440.00</td><td>42.73</td><td>54.00</td><td>-11.27</td><td>34.33</td><td>8.40</td><td>Average</td><td>100</td><td>84</td></tr><tr><td>8</td><td>11440.00</td><td>55.76</td><td>74.00</td><td>-18.24</td><td>47.36</td><td>8.40</td><td>Peak</td><td>100</td><td>84</td></tr><tr><td>9</td><td>17160.00</td><td>60.27</td><td>68.20</td><td>-7.93</td><td>52.45</td><td>7.82</td><td>Peak</td><td>100</td><td>40</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3:"*" is Peak / Average value of fundamental frequency.					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5460.00	42.80	54.00	-11.20	42.48	0.32	Average	303	289	2	5460.00	54.98	74.00	-19.02	54.66	0.32	Peak	303	289	3	5470.00	55.12	68.20	-13.08	54.76	0.36	Peak	303	289	4 *	5720.00	105.68			105.04	0.64	Average	303	289	5 *	5720.00	115.75			115.11	0.64	Peak	303	289	6	5850.00	56.82	68.20	-11.38	55.74	1.08	Peak	303	289	7	11440.00	42.73	54.00	-11.27	34.33	8.40	Average	100	84	8	11440.00	55.76	74.00	-18.24	47.36	8.40	Peak	100	84	9	17160.00	60.27	68.20	-7.93	52.45	7.82	Peak	100	40
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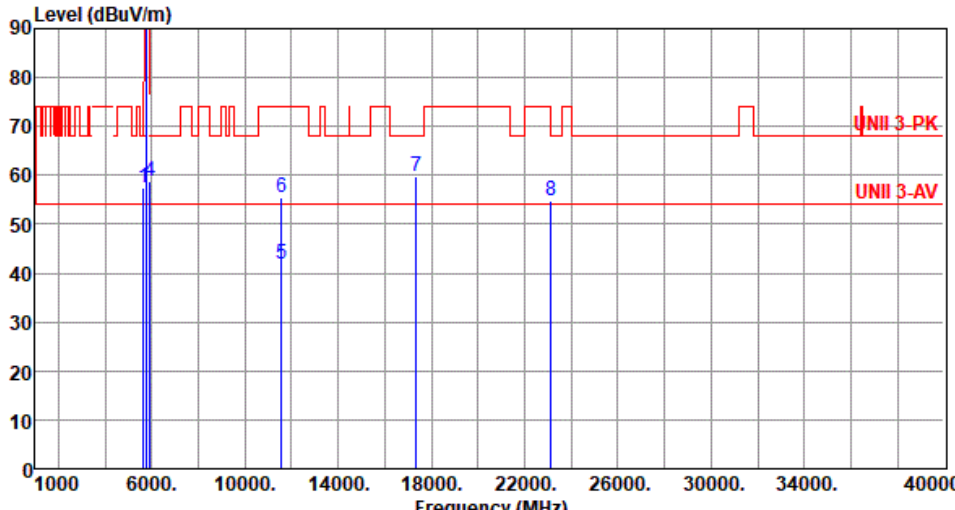


Modulation	11a	Test Freq. (MHz)	5745																																																																																																														
Polarization	Horizontal																																																																																																																
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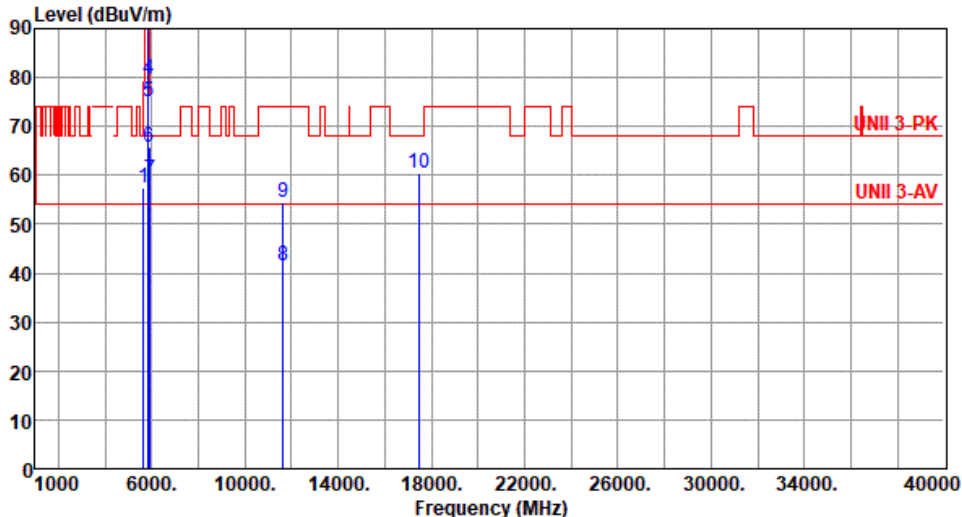
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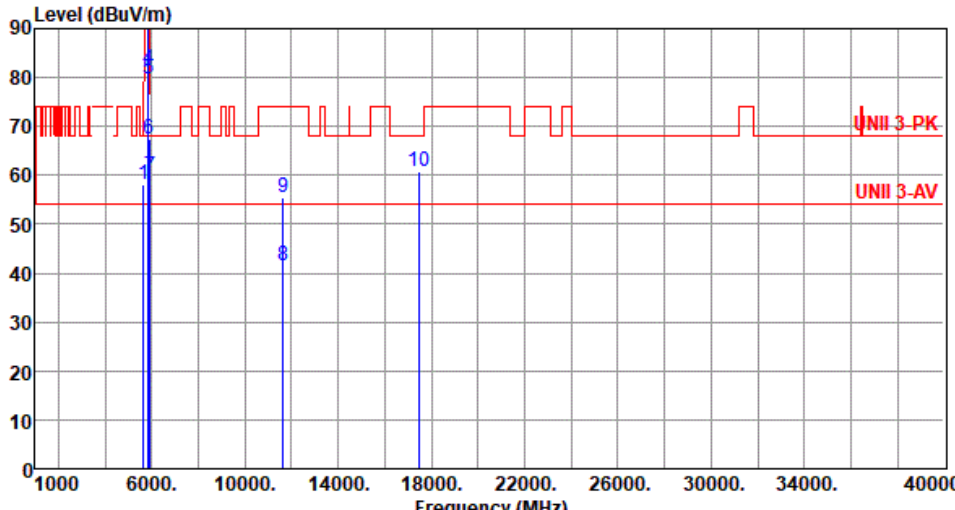
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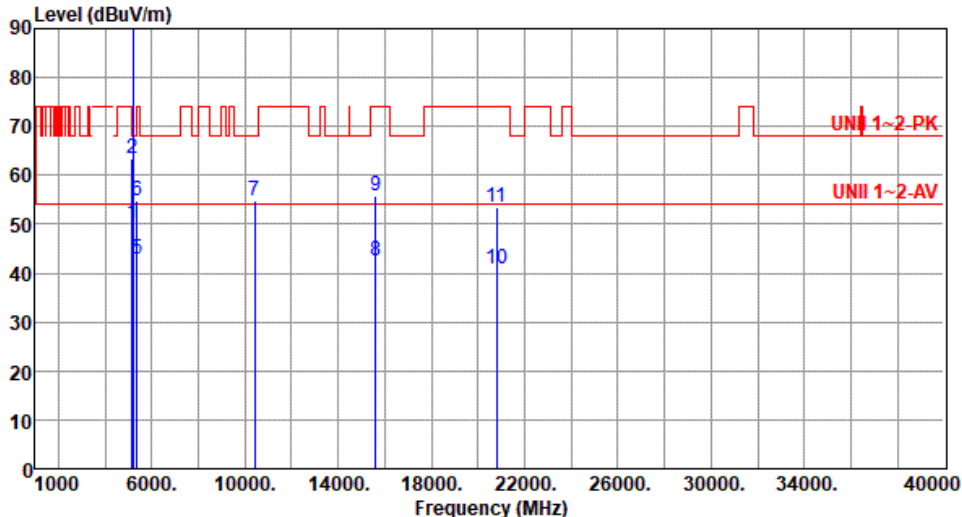
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Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5650.00</td><td>58.19</td><td>68.20</td><td>-10.01</td><td>57.83</td><td>0.36</td><td>Peak</td><td>247</td><td>83</td></tr><tr><td>2 *</td><td>5825.00</td><td>109.95</td><td></td><td></td><td>108.94</td><td>1.01</td><td>Average</td><td>247</td><td>83</td></tr><tr><td>3 *</td><td>5825.00</td><td>119.79</td><td></td><td></td><td>118.78</td><td>1.01</td><td>Peak</td><td>247</td><td>83</td></tr><tr><td>4</td><td>5850.00</td><td>81.68</td><td>122.20</td><td>-40.52</td><td>80.60</td><td>1.08</td><td>Peak</td><td>247</td><td>83</td></tr><tr><td>5</td><td>5855.00</td><td>79.56</td><td>110.80</td><td>-31.24</td><td>78.45</td><td>1.11</td><td>Peak</td><td>247</td><td>83</td></tr><tr><td>6</td><td>5875.00</td><td>67.31</td><td>105.20</td><td>-37.89</td><td>66.11</td><td>1.20</td><td>Peak</td><td>247</td><td>83</td></tr><tr><td>7</td><td>5925.00</td><td>59.70</td><td>68.20</td><td>-8.50</td><td>58.31</td><td>1.39</td><td>Peak</td><td>247</td><td>83</td></tr><tr><td>8</td><td>11650.00</td><td>41.64</td><td>54.00</td><td>-12.36</td><td>33.67</td><td>7.97</td><td>Average</td><td>100</td><td>118</td></tr><tr><td>9</td><td>11650.00</td><td>55.54</td><td>74.00</td><td>-18.46</td><td>47.57</td><td>7.97</td><td>Peak</td><td>100</td><td>118</td></tr><tr><td>10</td><td>17475.00</td><td>60.69</td><td>68.20</td><td>-7.51</td><td>52.17</td><td>8.52</td><td>Peak</td><td>100</td><td>118</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3:"*" is Peak / Average value of fundamental frequency.					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	58.19	68.20	-10.01	57.83	0.36	Peak	247	83	2 *	5825.00	109.95			108.94	1.01	Average	247	83	3 *	5825.00	119.79			118.78	1.01	Peak	247	83	4	5850.00	81.68	122.20	-40.52	80.60	1.08	Peak	247	83	5	5855.00	79.56	110.80	-31.24	78.45	1.11	Peak	247	83	6	5875.00	67.31	105.20	-37.89	66.11	1.20	Peak	247	83	7	5925.00	59.70	68.20	-8.50	58.31	1.39	Peak	247	83	8	11650.00	41.64	54.00	-12.36	33.67	7.97	Average	100	118	9	11650.00	55.54	74.00	-18.46	47.57	7.97	Peak	100	118	10	17475.00	60.69	68.20	-7.51	52.17	8.52	Peak	100	118
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																																								
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10	17475.00	60.69	68.20	-7.51	52.17	8.52	Peak	100	118																																																																																																								

Unwanted Emissions (Above 1GHz) for be EHT20

Modulation	be EHT20	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Sena Yu Temperature(°C):24 Humidity(%):65			
Level (dBuV/m) </			



Modulation	be EHT20	Test Freq. (MHz)	5180
Polarization	Vertical		
Test By :Sena Yu Temperature(°C):24 Humidity(%):65			
Level (dBUV/m) </			

Modulation	be EHT20	Test Freq. (MHz)	5200																																																																																																																								
Polarization	Horizontal																																																																																																																										
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	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																																																		
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3:"*" is Peak / Average value of fundamental frequency.																																																																																																																											

Modulation	be EHT20	Test Freq. (MHz)	5200						
Polarization	Vertical								
Test By :Sena Yu Temperature(°C):24 Humidity(%):65									
Level (dBuV/m)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	53.69	54.00	-0.31	53.14	0.55	Average	250	147
2	5150.00	68.54	74.00	-5.46	67.99	0.55	Peak	250	147
3 *	5200.00	106.38			106.12	0.26	Average	250	147
4 *	5200.00	118.30			118.04	0.26	Peak	250	147
5	5350.00	44.59	54.00	-9.41	44.65	-0.06	Average	250	147
6	5350.00	54.80	74.00	-19.20	54.86	-0.06	Peak	250	147
7	10400.00	54.72	68.20	-13.48	46.36	8.36	Peak	100	127
8	15600.00	42.53	54.00	-11.47	37.66	4.87	Average	100	127
9	15600.00	56.00	74.00	-18.00	51.13	4.87	Peak	100	127
10	20800.00	41.35	54.00	-12.65	37.82	3.53	Average	100	56
11	20800.00	53.34	74.00	-20.66	49.81	3.53	Peak	100	56

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3:"*" is Peak / Average value of fundamental frequency.

Modulation	be EHT20	Test Freq. (MHz)	5240																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Sena Yu Temperature(°C):24 Humidity(%):65																																																																																																							
Level (dBuV/m) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>45.56</td><td>54.00</td><td>-8.44</td><td>45.01</td><td>0.55</td><td>Average</td><td>100</td><td>296</td></tr><tr><td>2</td><td>5150.00</td><td>59.78</td><td>74.00</td><td>-14.22</td><td>59.23</td><td>0.55</td><td>Peak</td><td>100</td><td>296</td></tr><tr><td>3 *</td><td>5240.00</td><td>102.26</td><td></td><td></td><td>102.30</td><td>-0.04</td><td>Average</td><td>100</td><td>296</td></tr><tr><td>4 *</td><td>5240.00</td><td>114.38</td><td></td><td></td><td>114.42</td><td>-0.04</td><td>Peak</td><td>100</td><td>296</td></tr><tr><td>5</td><td>5350.00</td><td>45.39</td><td>54.00</td><td>-8.61</td><td>45.45</td><td>-0.06</td><td>Average</td><td>100</td><td>296</td></tr><tr><td>6</td><td>5350.00</td><td>58.64</td><td>74.00</td><td>-15.36</td><td>58.70</td><td>-0.06</td><td>Peak</td><td>100</td><td>296</td></tr><tr><td>7</td><td>10480.00</td><td>54.90</td><td>68.20</td><td>-13.30</td><td>46.54</td><td>8.36</td><td>Peak</td><td>100</td><td>73</td></tr><tr><td>8</td><td>15720.00</td><td>42.72</td><td>54.00</td><td>-11.28</td><td>37.69</td><td>5.03</td><td>Average</td><td>100</td><td>88</td></tr><tr><td>9</td><td>15720.00</td><td>55.29</td><td>74.00</td><td>-18.71</td><td>50.26</td><td>5.03</td><td>Peak</td><td>100</td><td>88</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	45.56	54.00	-8.44	45.01	0.55	Average	100	296	2	5150.00	59.78	74.00	-14.22	59.23	0.55	Peak	100	296	3 *	5240.00	102.26			102.30	-0.04	Average	100	296	4 *	5240.00	114.38			114.42	-0.04	Peak	100	296	5	5350.00	45.39	54.00	-8.61	45.45	-0.06	Average	100	296	6	5350.00	58.64	74.00	-15.36	58.70	-0.06	Peak	100	296	7	10480.00	54.90	68.20	-13.30	46.54	8.36	Peak	100	73	8	15720.00	42.72	54.00	-11.28	37.69	5.03	Average	100	88	9	15720.00	55.29	74.00	-18.71	50.26	5.03	Peak	100	88
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																														
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Modulation	be EHT20	Test Freq. (MHz)	5240																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Sena Yu Temperature(°C):24 Humidity(%):65																																																																																																							
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3 *	5240.00	107.42			107.46	-0.04	Average	267	146																																																																																														
4 *	5240.00	119.67			119.71	-0.04	Peak	267	146																																																																																														
5	5350.00	48.58	54.00	-5.42	48.64	-0.06	Average	267	146																																																																																														
6	5350.00	61.88	74.00	-12.12	61.94	-0.06	Peak	267	146																																																																																														
7	10480.00	55.02	68.20	-13.18	46.66	8.36	Peak	100	115																																																																																														
8	15720.00	42.81	54.00	-11.19	37.78	5.03	Average	100	94																																																																																														
9	15720.00	55.25	74.00	-18.75	50.22	5.03	Peak	100	94																																																																																														



Modulation	be EHT20	Test Freq. (MHz)	5260																																																																																																				
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Test By :Paul Lin Temperature(°C):25 Humidity(%):65																																																																																																							
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