

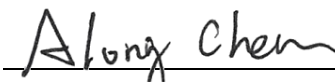
FCC Test Report

FCC ID : 2AU6R04157
Equipment : 802.11be (WiFi 7) Dual-Radio Unified Pro
Access Point
(Please refer to section 1.1.1 for more details)
Model No. : WBE630S
(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 : Jul. 02, 2024
Tested Date : Aug. 12 ~ Oct. 23, 2024

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

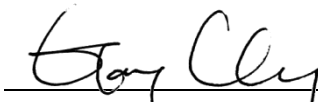

Gary Chang / Manager

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Appendix A. Emission Bandwidth

Appendix B. Conducted Output Power

Appendix C. Power Spectral Density

Appendix D. Unwanted Emissions

Appendix E. Frequency Stability

Appendix F. AC Power Line Conducted Emissions

Release Record

Report No.	Version	Description	Issued Date
FR470201AN	Rev. 01	Initial issue	Dec. 09, 2024

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.471MHz 37.40 (Margin -9.09dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5394.00MHz 53.89 (Margin -0.11dB) - 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: 27.98 5250~5350MHz: 23.67 5470~5725MHz: 23.88 5725~5850MHz: 28.51 Beamforming mode 5150~5250MHz: 21.96 5250~5350MHz: 17.65 5470~5725MHz: 17.86 5725~5850MHz: 22.49	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	WBE630S	802.11be (WiFi 7) Dual-Radio Unified Pro Access Point	RJ45 have 2 port, for marketing purpose
ZYXEL	NWA210BE	802.11be (WiFi 7) Dual-Radio PoE Access Point	
ZYXEL	WBE510D	802.11be (WiFi 7) Dual-Radio Unified Access Point	RJ45 has 1 port, for marketing purpose
ZYXEL	NWA110BE	802.11be (WiFi 7) Dual-Radio PoE Access Point	
✦ The above models, model WBE630S 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]	4	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]	4	MCS 0-31
	ac (VHT20)				MCS 0-9
	ax (HE20)				MCS 0-11
	be (EHT20)				MCS 0-13
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]	4	MCS 0-31
	ac (VHT40)				MCS 0-9
	ax (HE40)				MCS 0-11
	be (EHT40)				MCS 0-13
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	4	MCS 0-9
	ax (HE80)				MCS 0-11
	be (EHT80)				MCS 0-13
5150-5250 5250-5350 5470-5725	ac (VHT160)	5250 5570	50 [1] 114 [1]	4	MCS 0-11
	ax (HE160)				MCS 0-11
	be (EHT160)				MCS 0-13
5470-5725	be (EHT240)	5610	122 [1]	4	MCS 0-13
Note 1: OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM and 4096QAM modulation.					

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
5-7G-1-1	Aristotle	RFA-12731-R2	PIFA	I-PEX	1.56	1.78	2.3	0.63
5-7G-1-2					3.1	3.19	2.26	2.74
5-7G-2-1					2.67	2.61	3.25	2.8
5-7G-2-2					2.62	3.19	2.69	2.69
5-7G-3					0.70	1.24	1.65	0.40
5-7G-4					2.75	3.2	2.71	3.77

Note: There are 2 antenna configurations for 5GHz

Configuration 1: Antenna 1/3/5/6

Configuration 2: Antenna 2/4/5/6

1.1.4 Configuration of Equipment under Test (EUT)

Power Supply Type	15Vdc from adapter 56Vdc from PoE	
TPC	☒ Support	☐ Not support
Beamforming	☒ Support	☐ Not support
RU Configuration	☒ Full RU	☐ Partial RU
Channel Puncturing	☐ Support	☒ Not support

1.1.5 Channel List

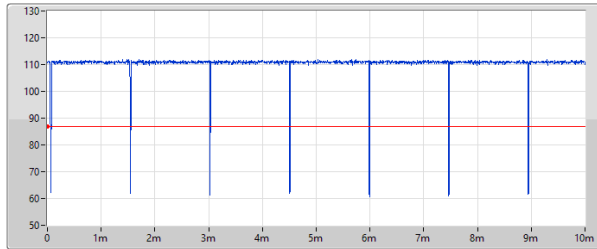
802.11a / n HT20 / ac VHT20 / ax HE20 / be EHT20		802.11n HT40 / ac VHT40 / ax HE40 / be EHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	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	802.11ac VHT160 / ax HE160 / be EHT160	
149	5745	50	5250
153	5765	114	5570
157	5785	802.11be EHT240	
161	5805	122	5610
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	QRCT, Version: V4.1		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	99.20%	0.03
	be EHT20	99.15%	0.04
	be EHT40	98.55%	0.06
	be EHT80	98.10%	0.08
	be EHT160	98.10%	0.08
	be EHT240	98.40%	0.07

11a

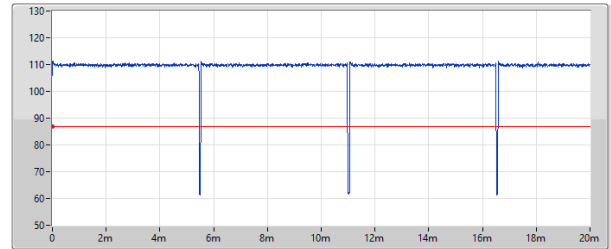
DC:11a:BWch:20



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.785GHz	10MHz	10MHz	10ms	2001	5us	9.92ms	0.992

be EHT20

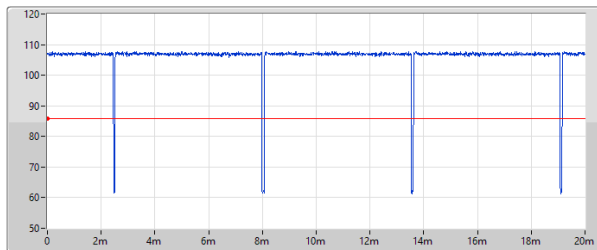
DC:be20:BWch:20



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.785GHz	10MHz	10MHz	20ms	2001	10us	19.83ms	0.991

be EHT40

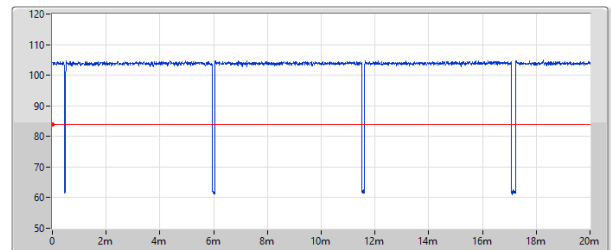
DC:be40:BWch:40



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.795GHz	10MHz	10MHz	20ms	2001	10us	19.71ms	0.985

be EHT80

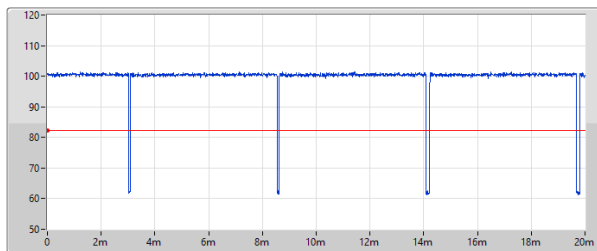
DC:be80:BWch:80



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.775GHz	10MHz	10MHz	20ms	2001	10us	19.62ms	0.981

be EHT160

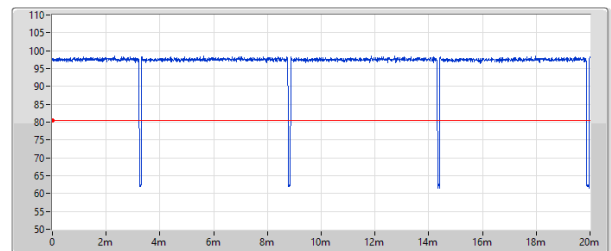
DC:be160:BWch:160



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.25GHz	10MHz	10MHz	20ms	2001	10us	19.62ms	0.981

be EHT240

DC:be240:BWch:240



Ch Freq	RBW	VBW	Sweep Time	Total Sample	Sample Time	TX Time	DC
5.61GHz	10MHz	10MHz	20ms	2001	10us	19.68ms	0.984

1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	19
11a	5200	20.5
11a	5240	21
11a	5260	14.5
11a	5300	14.5
11a	5320	14.5
11a	5500	14.5
11a	5580	14.5
11a	5700	14.5
11a	5720	15
11a	5745	22
11a	5785	22
11a	5825	22
be EHT20	5180	18.5
be EHT20	5200	20
be EHT20	5240	21.5
be EHT20	5260	17
be EHT20	5300	17
be EHT20	5320	17
be EHT20	5500	17
be EHT20	5580	17.5
be EHT20	5700	17
be EHT20	5720	17
be EHT20	5745	22
be EHT20	5785	22
be EHT20	5825	22
be EHT40	5190	18
be EHT40	5230	20
be EHT40	5270	17
be EHT40	5310	17
be EHT40	5510	17
be EHT40	5590	17.5
be EHT40	5670	17
be EHT40	5710	17.5

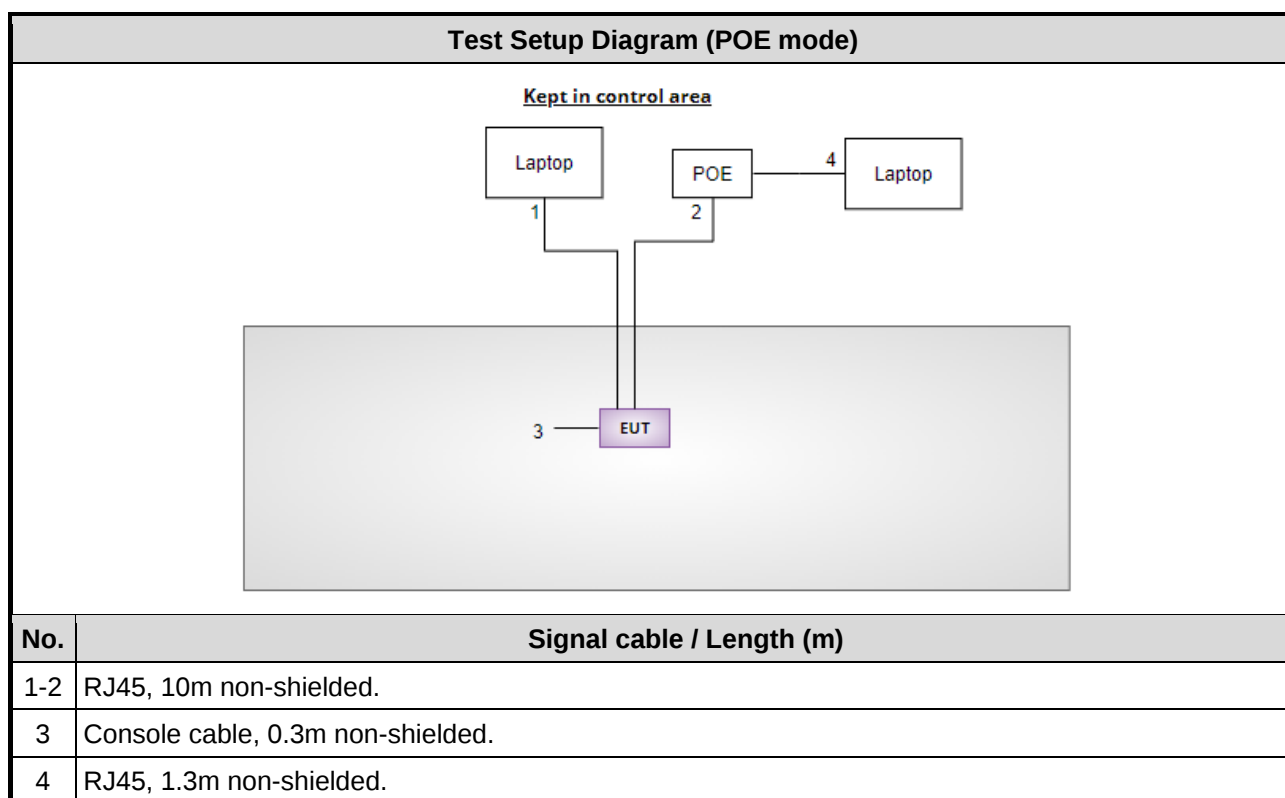
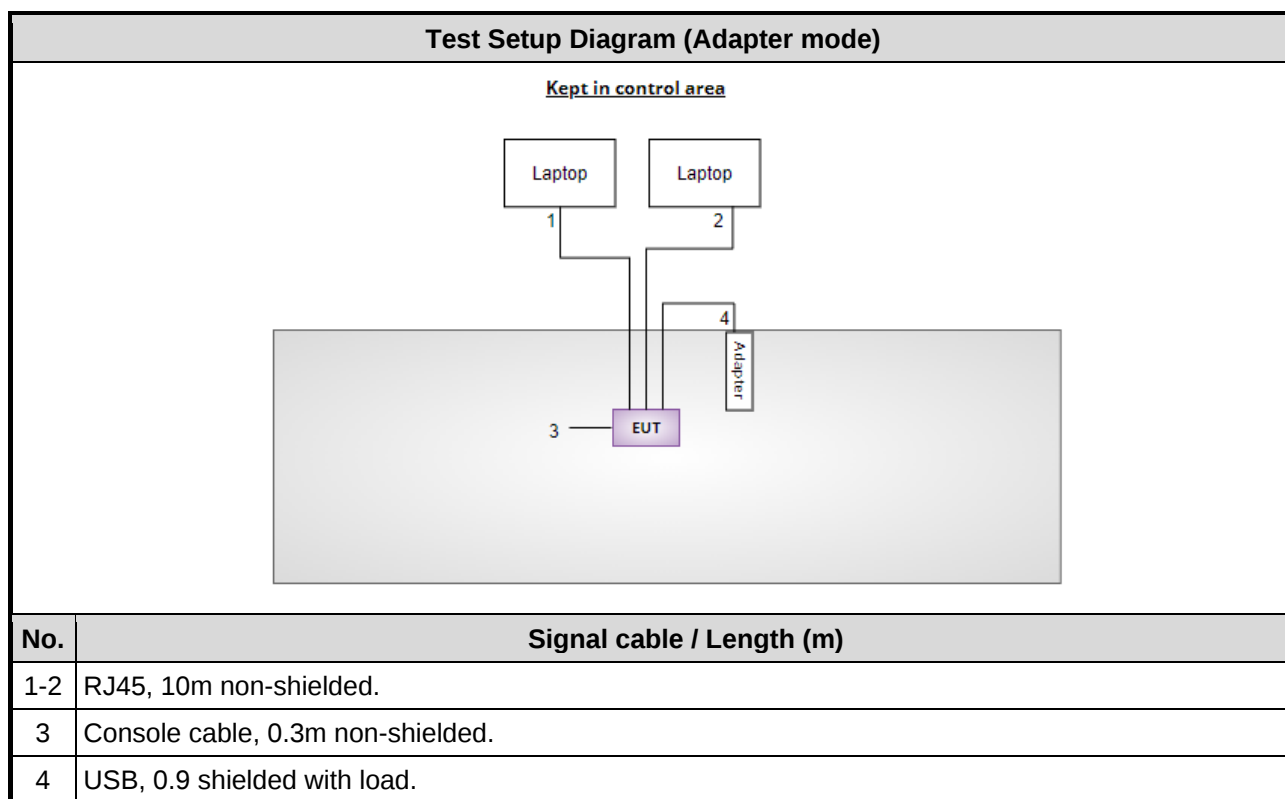
be EHT40	5755	21
be EHT40	5795	21
be EHT80	5210	17.5
be EHT80	5290	17.5
be EHT80	5530	17
be EHT80	5610	17.5
be EHT80	5690	17.5
be EHT80	5775	19
be EHT160	5250	14.5
be EHT160	5570	14
be EHT240	5610	11

1.2 Local Support Equipment List

Support Equipment List (Adapter mode)					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	RJ45	ICC	RJ45-10m	---	---
2	RJ45	ICC	RJ45-10m	---	---
3	Console cable	Zyxel	console-01	---	Provided by applicant.
4	Laptop	DELL	Vostro 5410	DoC	---
5	Laptop	DELL	Latitude 5400	DoC	---
6	adapter+USB Cable	DEEVAN	DSA-45PDH	---	Provided by applicant.

Support Equipment List (POE mode)					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	RJ45	ICC	RJ45-10m	---	---
2	RJ45	ICC	RJ45-10m	---	---
3	RJ45	ICC	RJ45-1.3m	---	---
4	Console cable	Zyxel	console-01	---	Provided by applicant.
5	Laptop	DELL	Vostro 5410	DoC	---
6	Laptop	DELL	Latitude 5400	DoC	---
7	POE	Zyxel	POE12-60W	---	Provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Oct. 23, 2024				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 23, 2024	Feb. 22, 2025
LISN	R&S	ENV216	101579	May 09, 2024	May 08, 2025
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 09, 2024	Oct. 08, 2025
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 10, 2024	Jan. 09, 2025
50 ohm terminal (Support Unit)	NA	50	01	Jun. 19, 2024	Jun. 18, 2025
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission Below 1GHz				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Oct. 22, 2024				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 05, 2024	Mar. 04, 2025
Loop Antenna	R&S	HFH2-Z2	100330	Oct. 31, 2023	Oct. 30, 2024
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Jul. 02, 2024	Jul. 01, 2025
Preamplifier	EMC	EMC02325	980187	Jun. 27, 2024	Jun. 26, 2025
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 02, 2024	Oct. 01, 2025
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 20, 2024	Sep. 19, 2025
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 20, 2024	Sep. 19, 2025
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 20, 2024	Sep. 19, 2025
Measurement Software	Sporton	SENSE-EMI	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Aug. 12 ~ Aug. 20, 2024				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Apr. 02, 2024	Apr. 01, 2025
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 14, 2023	Dec. 13, 2024
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Dec. 28, 2023	Dec. 27, 2024
Preamplifier	EMC	EMC118A45SE	980897	Aug. 05, 2024	Aug. 04, 2025
Preamplifier	EMC	EMC184045SE	980903	Jul. 30, 2024	Jul. 29, 2025
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 22, 2023	Sep. 21, 2024
RF cable-8M	EMC	EMC104-SM-SM-80 00	181107	Sep. 22, 2023	Sep. 21, 2024
Attenuator	Pasternack	PE7005-10	10-3	Sep. 27, 2023	Sep. 26, 2024
HIGHPASS FILTER	WI	WHK3.1-18G-10SS	43	Sep. 27, 2023	Sep. 26, 2024
Measurement Software	Sporton	SENSE-15247_DTS	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Aug. 28 ~ Sep. 11, 2024				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2024	Apr. 17, 2025
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	Jul. 01, 2024	Jun. 30, 2025
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	± 0.6 °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

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
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	1
	be EHT20	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	be EHT40	5190 / 5230 / 5270 / 5310 / 5510 / 5550 / 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	5300	---	1
Beamforming mode				
Conducted Output Power	be EHT20	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	1
	be EHT40	5190 / 5230 / 5270 / 5310 / 5510 / 5550 / 5670 / 5710	MCS 0	
	be EHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	be EHT160	5250 / 5570	MCS 0	
	be EHT240	5610	MCS 0	
NOTE:				
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report.				
2. Test Configurations are listed as below: 1) Test Configuration 1: PoE mode 2) Test Configuration 2: Adapter mode				
3. There are 2 antenna configurations as below Antenna configuration 1: Antenna 1/3/5/6 Antenna configuration 2: Antenna 2/4/5/6 The antenna configuration 1 results were found as the worst case of radiated emission and were shown in this report				

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
AC Power Line Conducted Emissions	be EHT20	5825	MCS 0	1, 2
Unwanted Emissions ≤1GHz	be EHT20	5825	MCS 0	1, 2
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 6dB bandwidth Power Spectral Density	11a be EHT20 be EHT40 be EHT80	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795 5775	6 Mbps MCS 0 MCS 0 MCS 0	1
Frequency Stability	Un-modulation	5785	---	1
Beamforming mode				
Conducted Output Power	be EHT20 be EHT40 be EHT80	5745 / 5785 / 5825 5755 / 5795 5775	MCS 0 MCS 0 MCS 0	1
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report. 2. Test Configurations are listed as below: 1) Test Configuration 1: PoE mode 2) Test Configuration 2: Adapter mode 3. There are 2 antenna configurations as below Antenna configuration 1: Antenna 1/3/5/6 Antenna configuration 2: Antenna 2/4/5/6 The antenna configuration 1 results were found as the worst case of radiated emission and were shown in this report.				

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.

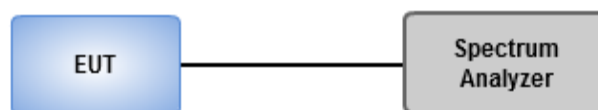
Occupied Bandwidth

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 Result of Emission Bandwidth

Ambient Condition	25-26°C / 65-66%	Tested By	Akun Chung
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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
Indoor access point	Conducted Power: 1 W

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

3.2.2 Test Procedures

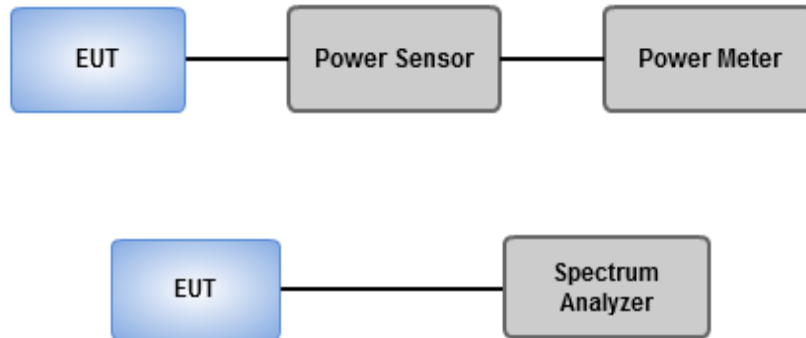
Method PM-G (Measurement using a gated RF average power meter)

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	25-26°C / 65-66%	Tested By	Akun Chung
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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
Indoor access point	17 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

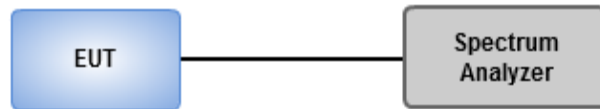
Duty cycle $\geq$ 98 %

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	25-26°C / 65-66%	Tested By	Akun Chung
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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

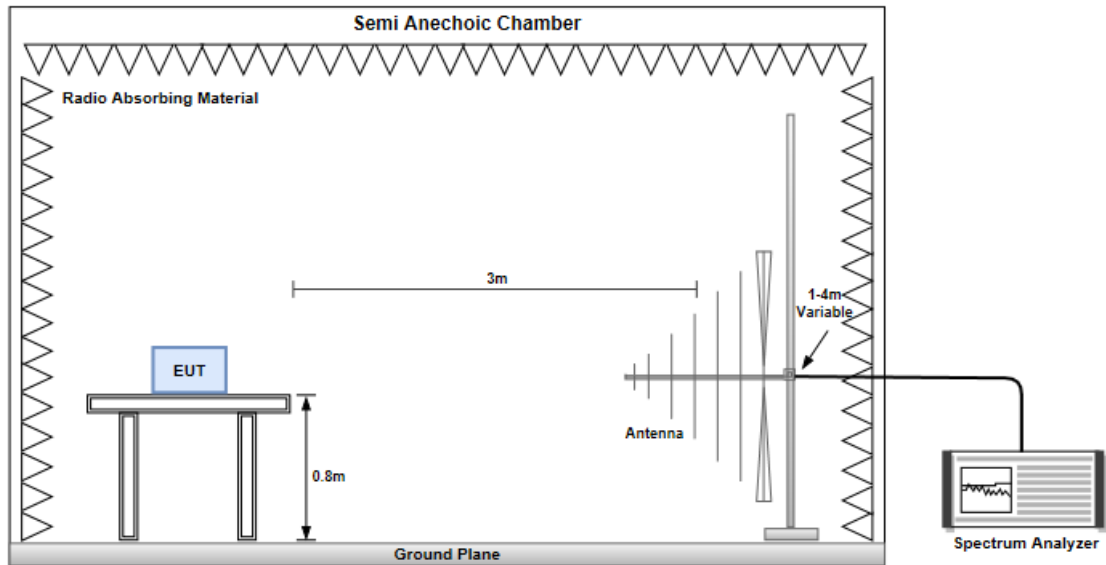
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

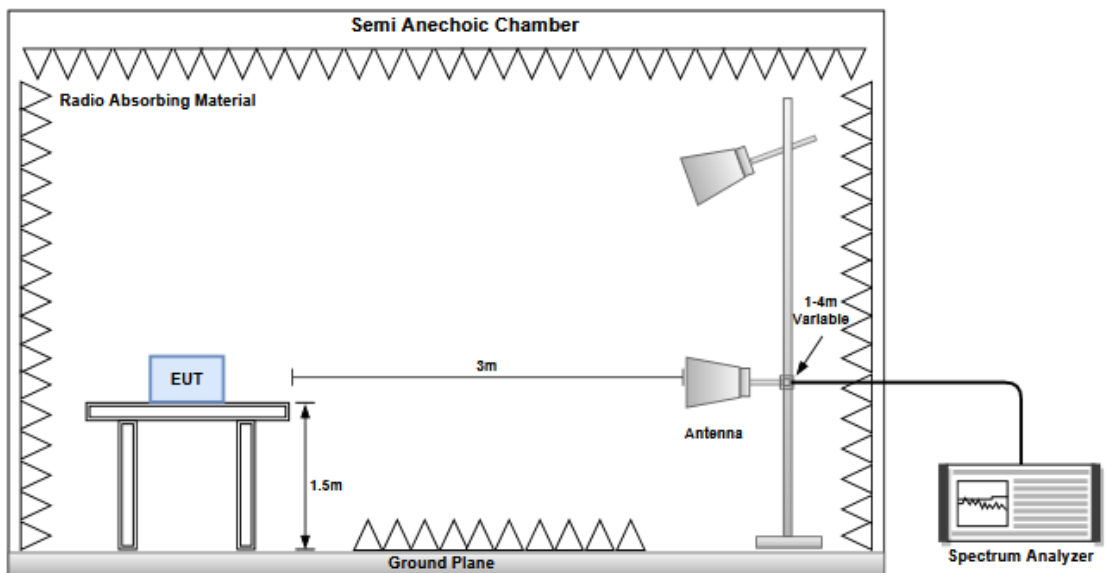
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Frequency Stability

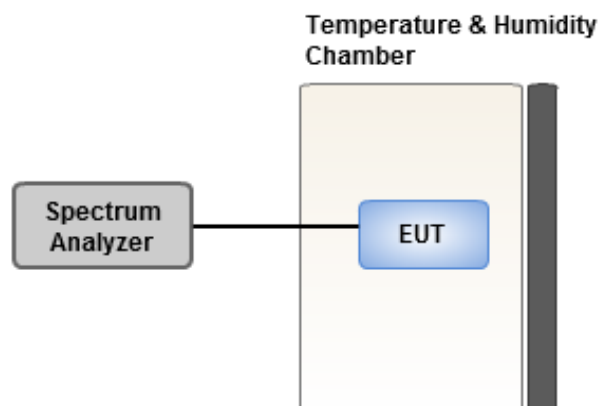
3.5.1 Limit of Frequency Stability

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	25-26°C / 65-66%	Tested By	Akun Chung
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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

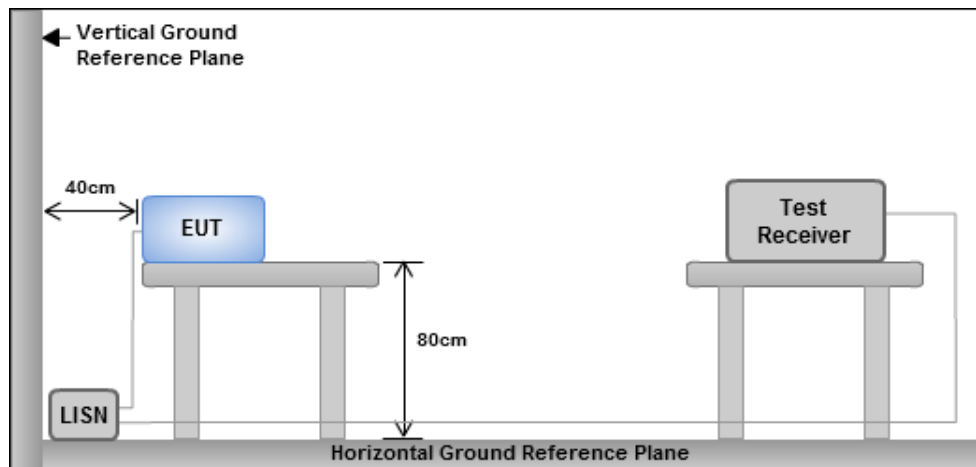
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

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No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
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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)_4TX	31.482M	17.468M	17M5D1D	22.308M	16.808M
802.11be EHT20_Nss4,(MCS0)_4TX	35.838M	19.58M	19M6D1D	22.572M	19.07M
802.11be EHT40_Nss4,(MCS0)_4TX	44.616M	38.141M	38M1D1D	43.56M	38.021M
802.11be EHT80_Nss4,(MCS0)_4TX	89.496M	78.081M	78M1D1D	88.44M	77.721M
802.11be EHT160_Nss4,(MCS0)_4TX	86.08M	77.881M	77M9D1D	83.76M	77.641M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.968M	16.888M	16M9D1D	22.374M	16.835M
802.11be EHT20_Nss4,(MCS0)_4TX	23.496M	19.13M	19M1D1D	22.374M	19.01M
802.11be EHT40_Nss4,(MCS0)_4TX	44.616M	38.141M	38M1D1D	43.428M	38.021M
802.11be EHT80_Nss4,(MCS0)_4TX	90.024M	77.961M	78M0D1D	87.12M	77.721M
802.11be EHT160_Nss4,(MCS0)_4TX	86.72M	77.881M	77M9D1D	84.64M	77.801M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	23.298M	16.888M	16M9D1D	16.38M	13.478M
802.11be EHT20_Nss4,(MCS0)_4TX	23.562M	19.1M	19M1D1D	16.26M	14.513M
802.11be EHT40_Nss4,(MCS0)_4TX	44.88M	38.081M	38M1D1D	36.225M	33.898M
802.11be EHT80_Nss4,(MCS0)_4TX	90.288M	77.961M	78M0D1D	78.975M	73.463M
802.11be EHT160_Nss4,(MCS0)_4TX	175.296M	157.601M	158MD1D	172.128M	157.121M
be240_240MHz_Nss4,(MCS0)_4TX	244.4M	232.064M	232MD1D	240.64M	231.829M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.368M	19.632M	19M6D1D	3.16M	4.378M
802.11be EHT20_Nss4,(MCS0)_4TX	19.14M	19.31M	19M3D1D	4.52M	4.598M
802.11be EHT40_Nss4,(MCS0)_4TX	38.148M	38.321M	38M3D1D	4.04M	4.518M
802.11be EHT80_Nss4,(MCS0)_4TX	78.144M	77.841M	77M8D1D	4.04M	6.417M
be240_240MHz_Nss4,(MCS0)_4TX	4.08M	32.654M	32M7D1D	4.02M	28.876M

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)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.684M	17.072M	31.482M	17.415M	22.572M	16.808M	22.374M	16.861M
5200MHz	Pass	Inf	23.034M	16.94M	22.308M	16.888M	22.902M	16.861M	22.836M	16.835M
5240MHz	Pass	Inf	23.1M	16.993M	23.43M	16.94M	27.39M	17.468M	23.496M	17.151M
5260MHz	Pass	Inf	22.968M	16.888M	22.572M	16.835M	22.77M	16.861M	22.506M	16.835M
5300MHz	Pass	Inf	22.77M	16.861M	22.704M	16.835M	22.836M	16.835M	22.968M	16.835M
5320MHz	Pass	Inf	22.374M	16.861M	22.704M	16.835M	22.836M	16.861M	22.704M	16.835M
5500MHz	Pass	Inf	22.242M	16.861M	22.704M	16.888M	22.836M	16.835M	22.968M	16.835M
5580MHz	Pass	Inf	22.572M	16.861M	22.506M	16.888M	22.77M	16.835M	22.572M	16.835M
5700MHz	Pass	Inf	21.978M	16.888M	22.638M	16.888M	22.506M	16.888M	23.298M	16.835M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.47M	13.538M	16.665M	13.508M	16.38M	13.493M	16.56M	13.478M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	4.418M	3.16M	4.438M	3.16M	4.378M	3.16M	4.398M
5745MHz	Pass	500k	16.368M	17.151M	16.368M	17.363M	16.368M	16.993M	16.302M	17.072M
5785MHz	Pass	500k	16.302M	17.204M	16.368M	17.363M	16.368M	16.993M	16.368M	17.099M
5825MHz	Pass	500k	16.302M	17.231M	16.368M	17.521M	16.368M	17.046M	16.302M	19.632M
802.11be EHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.704M	19.1M	22.638M	19.07M	23.232M	19.07M	22.836M	19.1M
5200MHz	Pass	Inf	23.43M	19.1M	22.572M	19.07M	23.232M	19.1M	22.902M	19.07M
5240MHz	Pass	Inf	34.386M	19.25M	26.136M	19.19M	35.838M	19.58M	32.67M	19.31M
5260MHz	Pass	Inf	22.77M	19.07M	22.704M	19.07M	23.1M	19.07M	23.43M	19.07M
5300MHz	Pass	Inf	23.166M	19.1M	22.638M	19.07M	23.034M	19.07M	22.374M	19.01M
5320MHz	Pass	Inf	22.902M	19.13M	22.968M	19.07M	23.496M	19.1M	22.506M	19.07M
5500MHz	Pass	Inf	23.232M	19.07M	22.704M	19.07M	22.506M	19.04M	23.232M	19.07M
5580MHz	Pass	Inf	22.506M	19.07M	22.374M	19.07M	23.43M	19.1M	22.704M	19.07M
5700MHz	Pass	Inf	23.034M	19.07M	22.44M	19.07M	23.562M	19.07M	22.374M	19.1M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.47M	14.558M	16.425M	14.528M	16.605M	14.528M	16.26M	14.513M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.52M	4.618M	4.52M	4.618M	4.52M	4.598M	4.54M	4.618M
5745MHz	Pass	500k	19.074M	19.16M	19.074M	19.28M	19.14M	19.16M	19.008M	19.16M
5785MHz	Pass	500k	19.008M	19.28M	19.008M	19.28M	19.008M	19.13M	18.942M	19.13M
5825MHz	Pass	500k	18.876M	19.25M	19.008M	19.31M	19.074M	19.19M	19.008M	19.16M
802.11be EHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	44.616M	38.081M	43.824M	38.021M	43.824M	38.081M	43.56M	38.021M
5230MHz	Pass	Inf	44.484M	38.141M	44.352M	38.141M	44.22M	38.021M	44.352M	38.081M
5270MHz	Pass	Inf	44.484M	38.081M	43.824M	38.141M	43.428M	38.081M	44.352M	38.021M
5310MHz	Pass	Inf	43.824M	38.081M	43.824M	38.081M	44.616M	38.081M	43.824M	38.021M
5510MHz	Pass	Inf	44.88M	38.081M	43.296M	38.021M	44.616M	38.081M	43.428M	38.021M
5590MHz	Pass	Inf	44.484M	38.081M	43.956M	38.021M	44.22M	38.081M	43.296M	38.021M
5670MHz	Pass	Inf	44.616M	38.021M	44.352M	38.021M	43.692M	38.021M	43.164M	38.081M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	37.345M	33.933M	36.435M	33.898M	37.03M	33.933M	36.225M	33.898M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.12M	4.638M	4.1M	4.558M	4.04M	4.518M	4.06M	4.518M
5755MHz	Pass	500k	38.148M	38.141M	38.016M	38.201M	38.016M	38.081M	38.148M	38.081M
5795MHz	Pass	500k	38.016M	38.201M	38.148M	38.321M	38.016M	38.081M	38.148M	38.141M
802.11be EHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	89.232M	78.081M	88.704M	77.841M	89.496M	77.961M	88.44M	77.721M
5290MHz	Pass	Inf	88.176M	77.841M	90.024M	77.961M	89.76M	77.841M	87.12M	77.721M
5530MHz	Pass	Inf	89.496M	77.841M	89.76M	77.961M	89.496M	77.721M	90.288M	77.721M
5610MHz	Pass	Inf	88.176M	77.841M	89.232M	77.721M	88.44M	77.721M	87.384M	77.721M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	78.975M	73.688M	79.875M	73.463M	79.2M	73.613M	80.175M	73.538M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.04M	6.897M	4.12M	6.537M	4.12M	6.597M	4.06M	6.417M
5775MHz	Pass	500k	78.144M	77.841M	78.144M	77.841M	78.144M	77.841M	78.144M	77.841M
802.11be EHT160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	83.76M	77.801M	85.2M	77.641M	83.92M	77.881M	86.08M	77.721M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	86.72M	77.881M	84.72M	77.801M	84.96M	77.801M	84.64M	77.801M
5570MHz	Pass	Inf	175.296M	157.601M	174.768M	157.121M	172.128M	157.121M	172.128M	157.121M
be240_240MHz_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5610MHz Straddle 5.47-5.725GHz	Pass	Inf	240.64M	232.064M	243.225M	232.064M	241.58M	231.829M	244.4M	232.064M
5610MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	32.324M	4.08M	32.654M	4.02M	30.045M	4.08M	28.876M

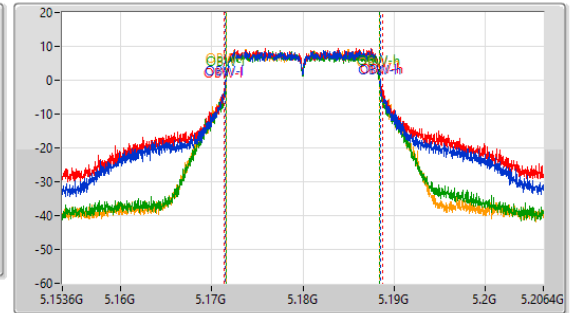
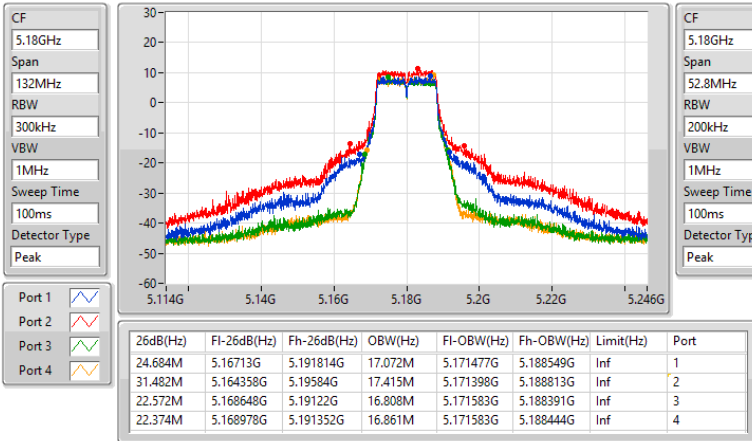
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

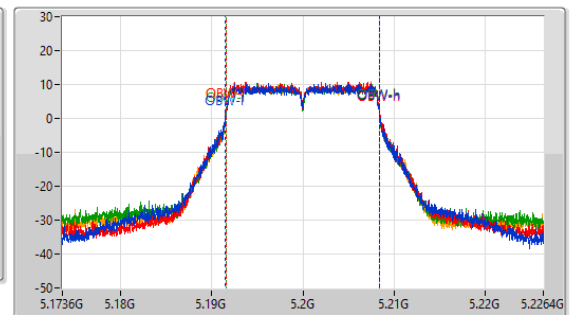
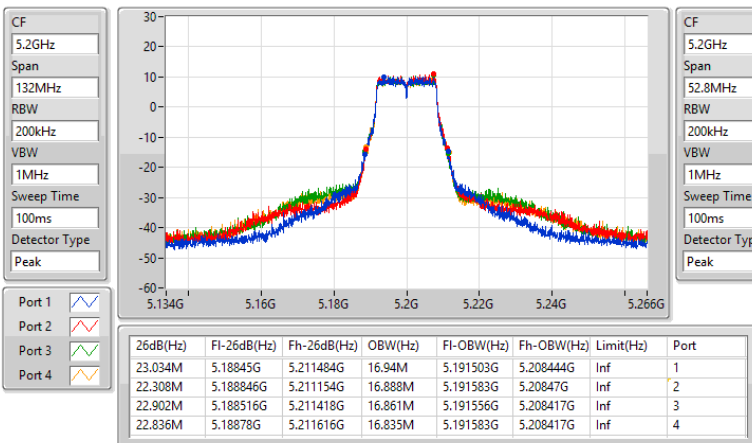
5180MHz



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

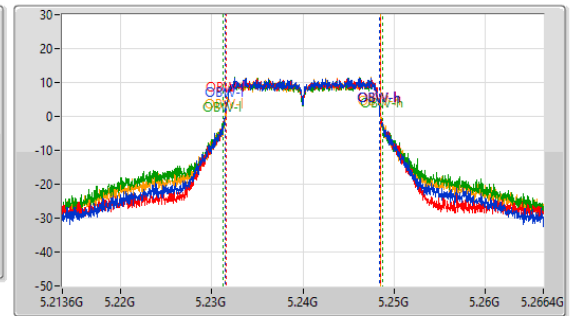
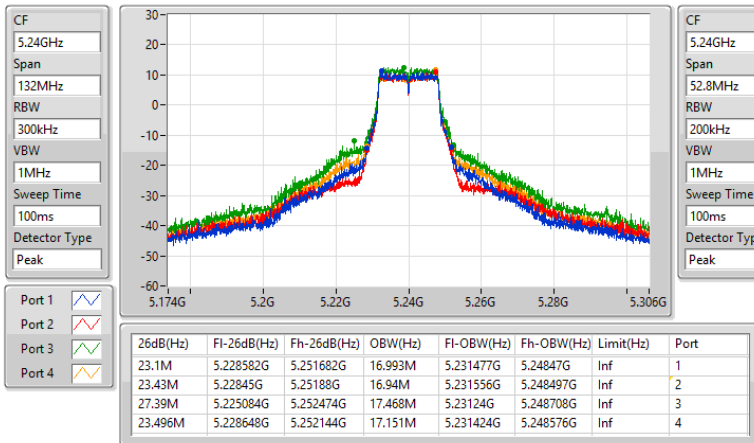
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5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

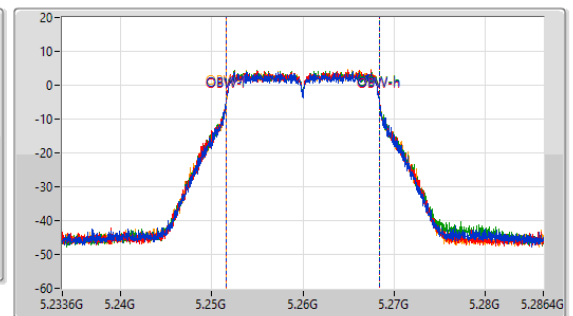
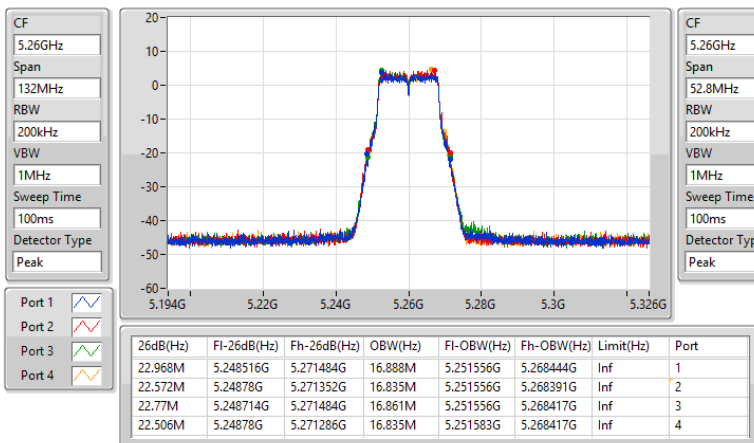
5240MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

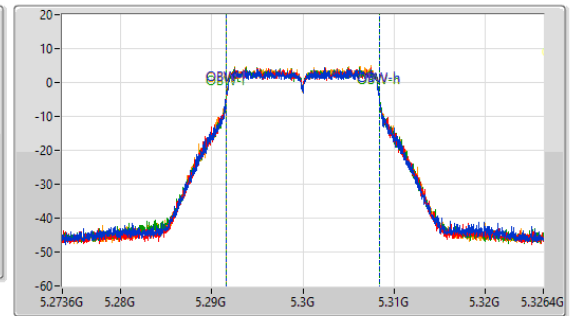
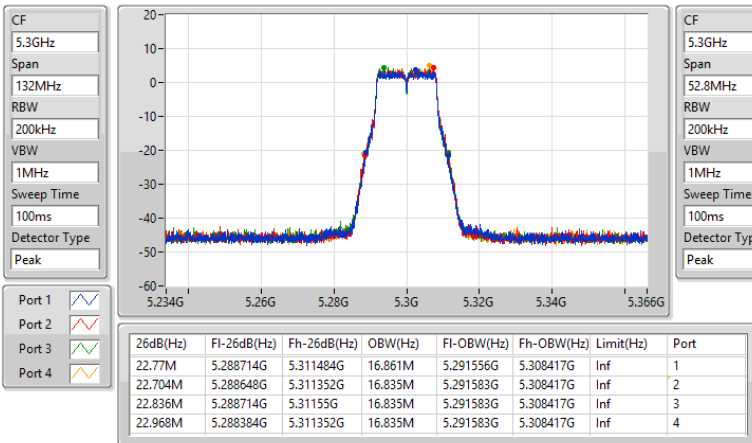
5260MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

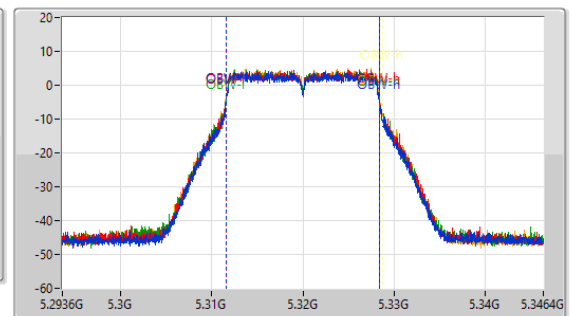
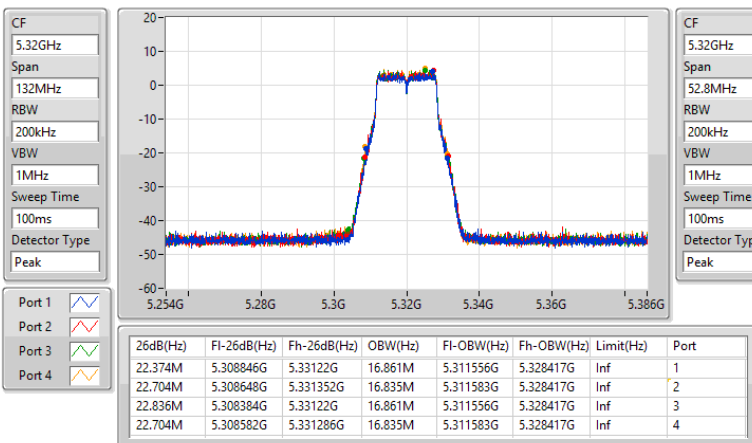
5300MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5320MHz

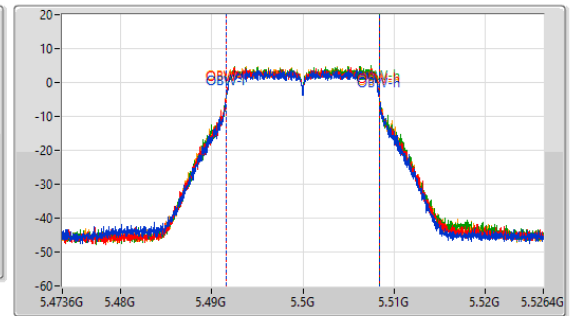
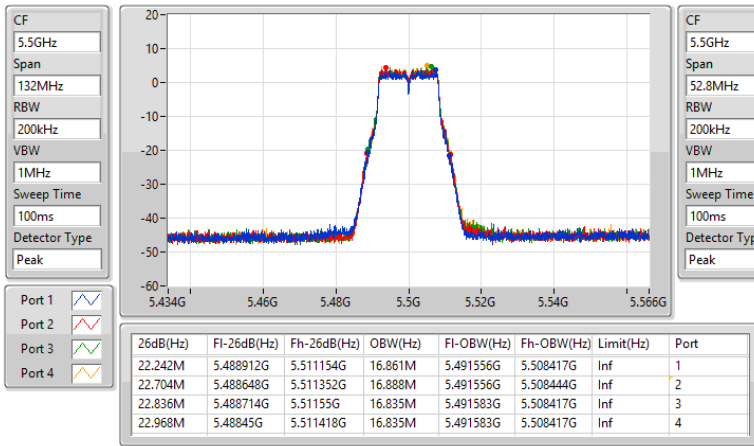




5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

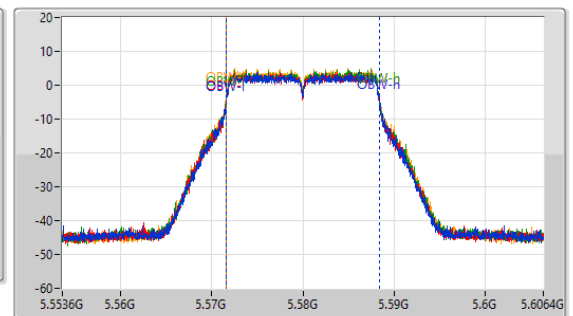
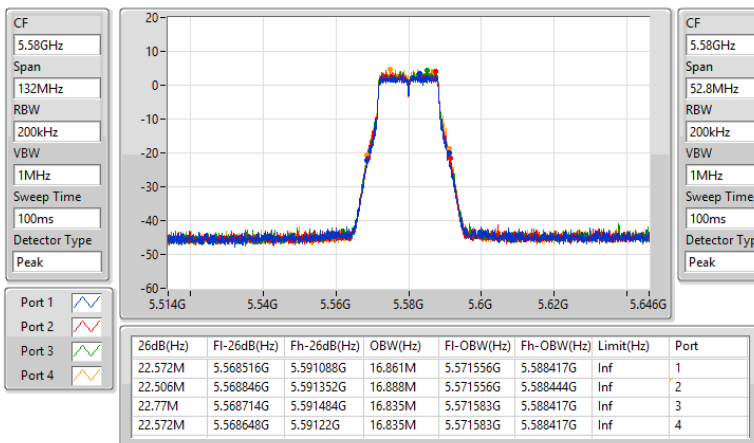
5500MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5580MHz

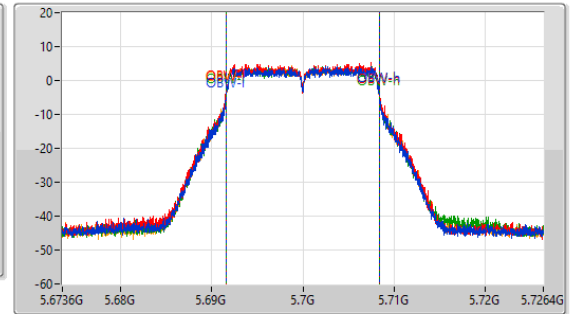
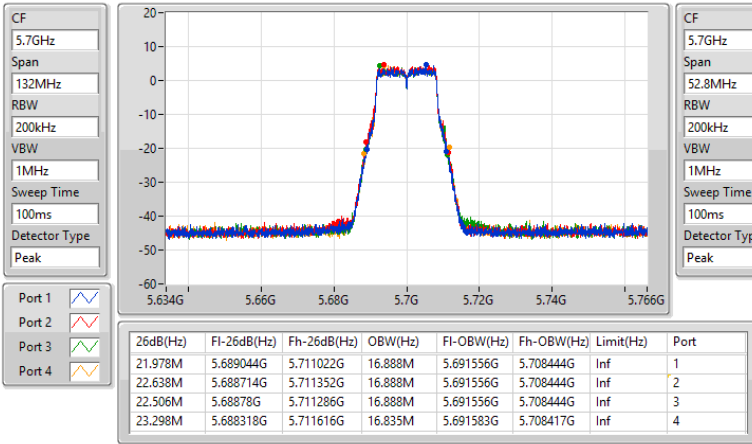




5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

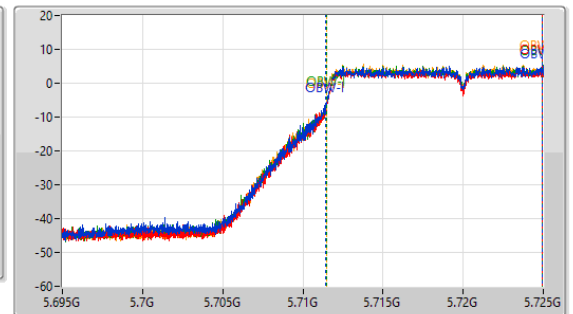
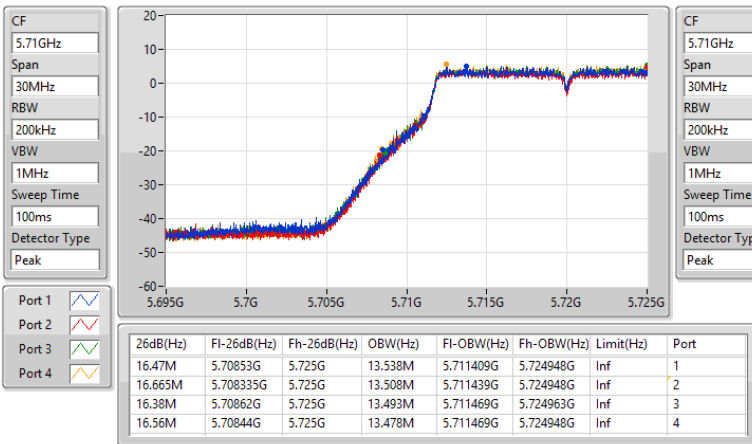
5700MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

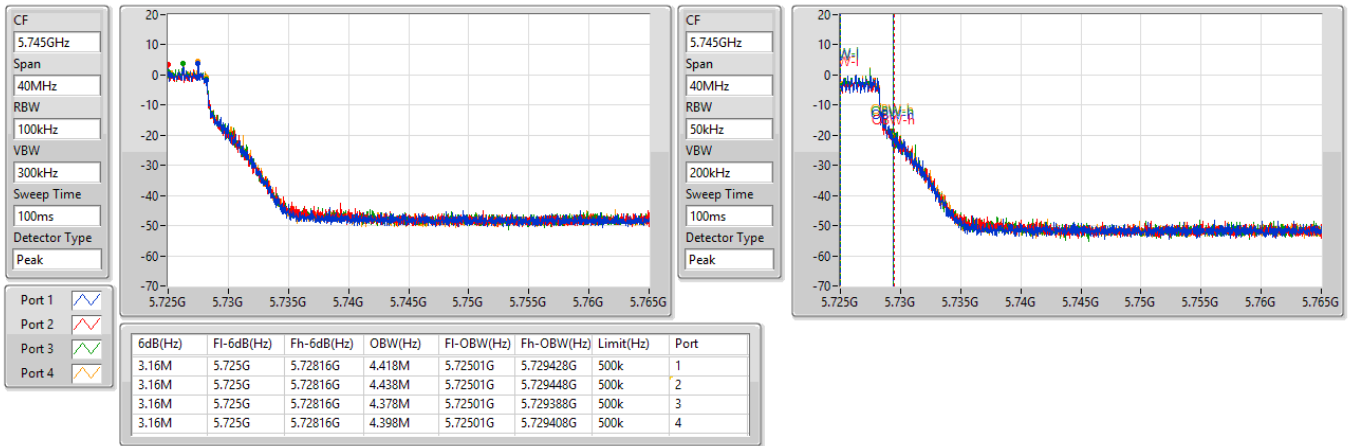




5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

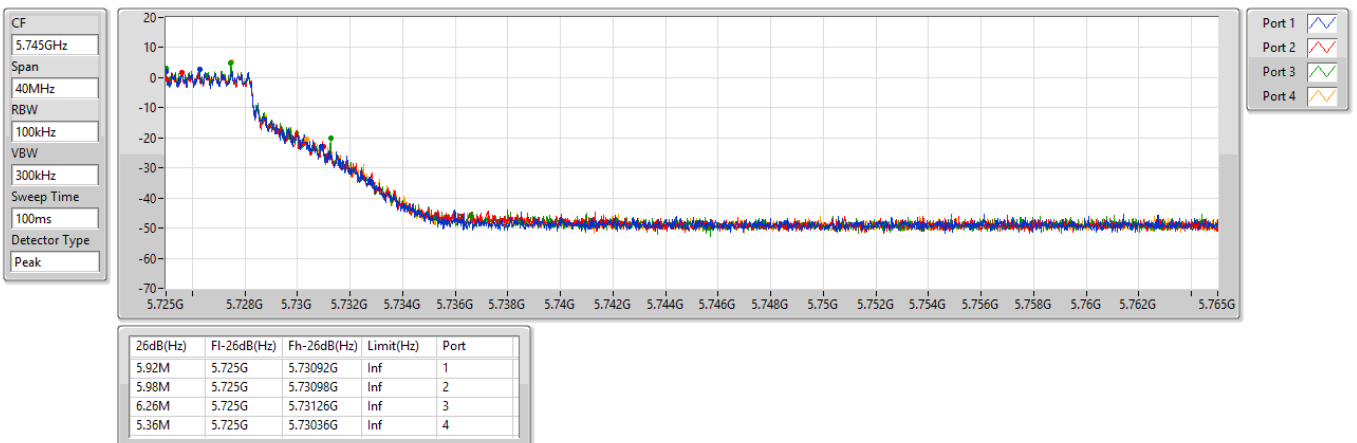
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

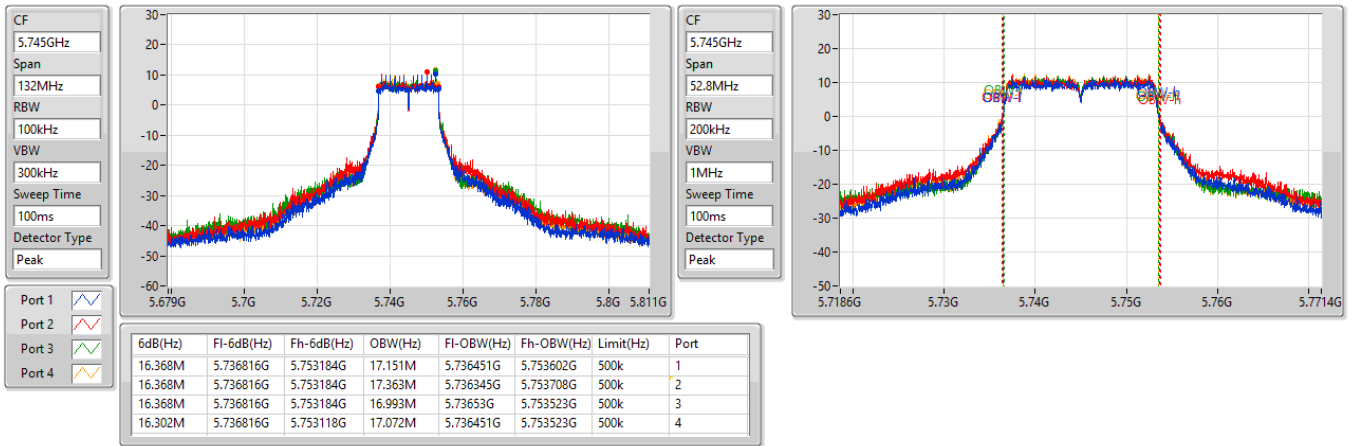




5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

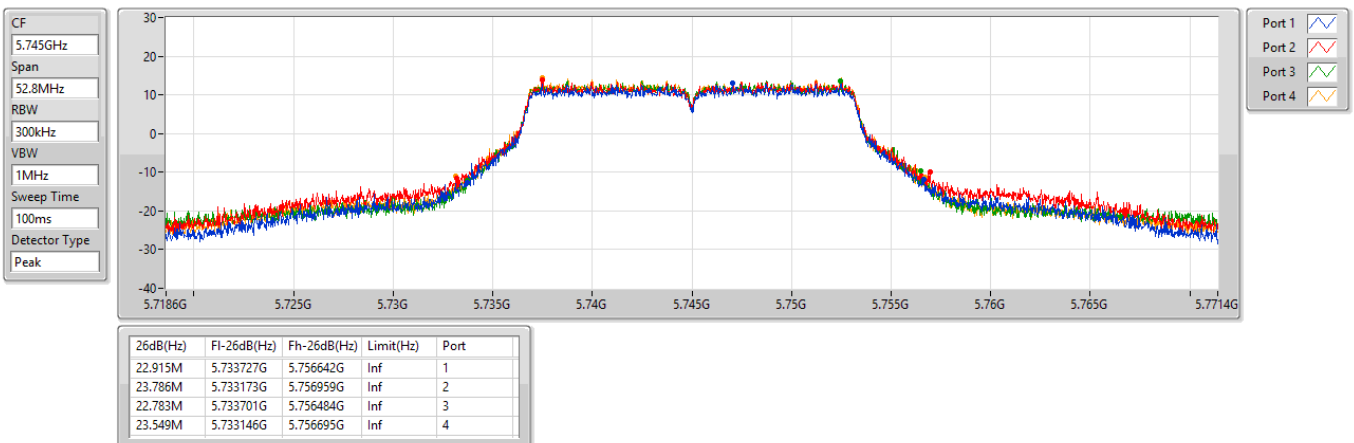
5745MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

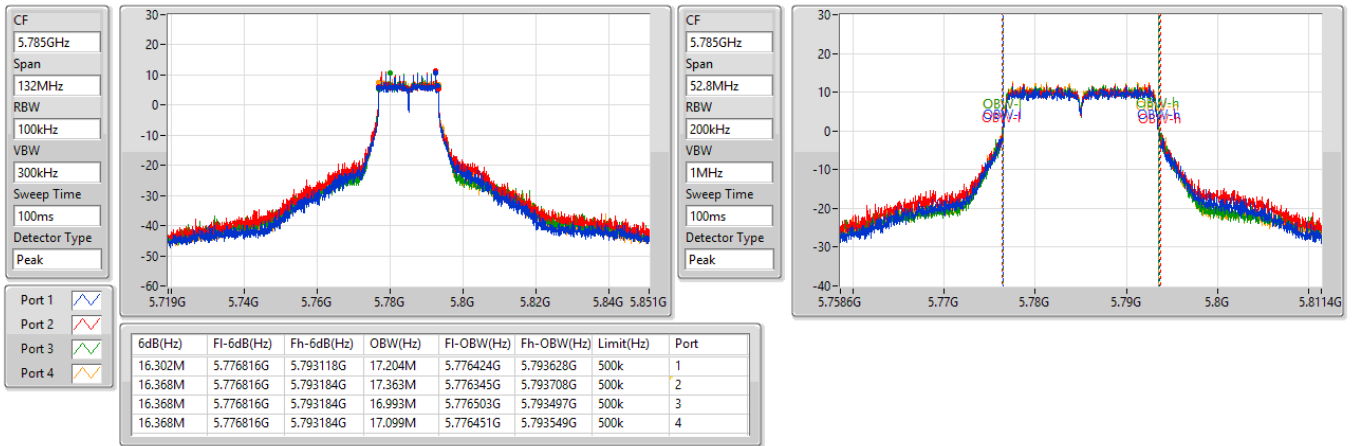




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EBW

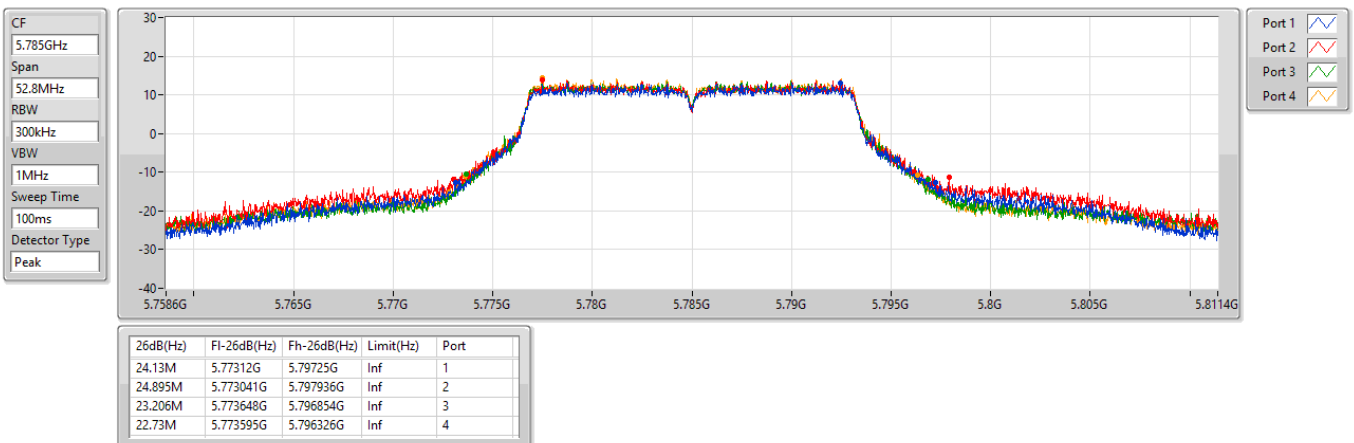
5785MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

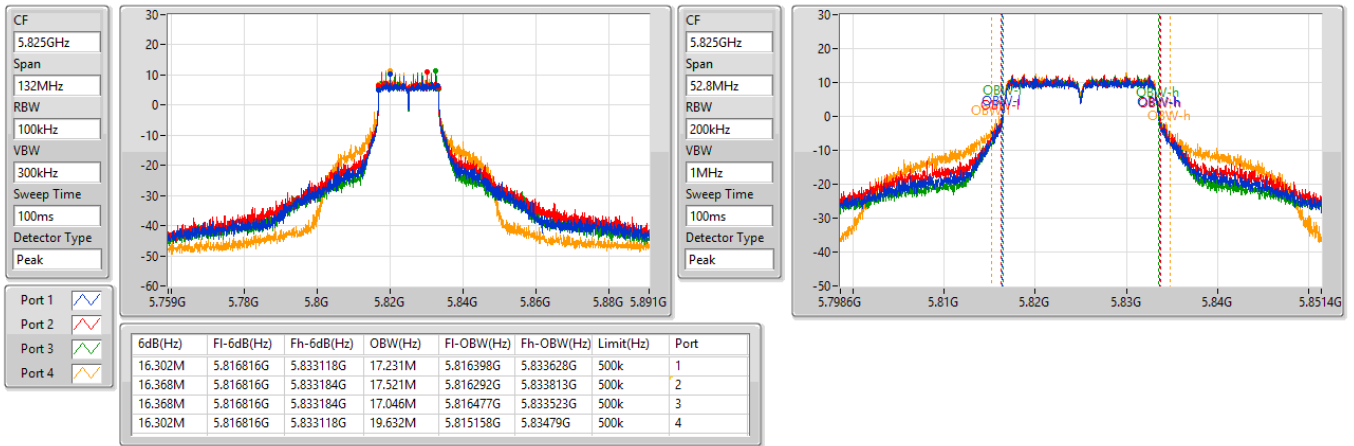




5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

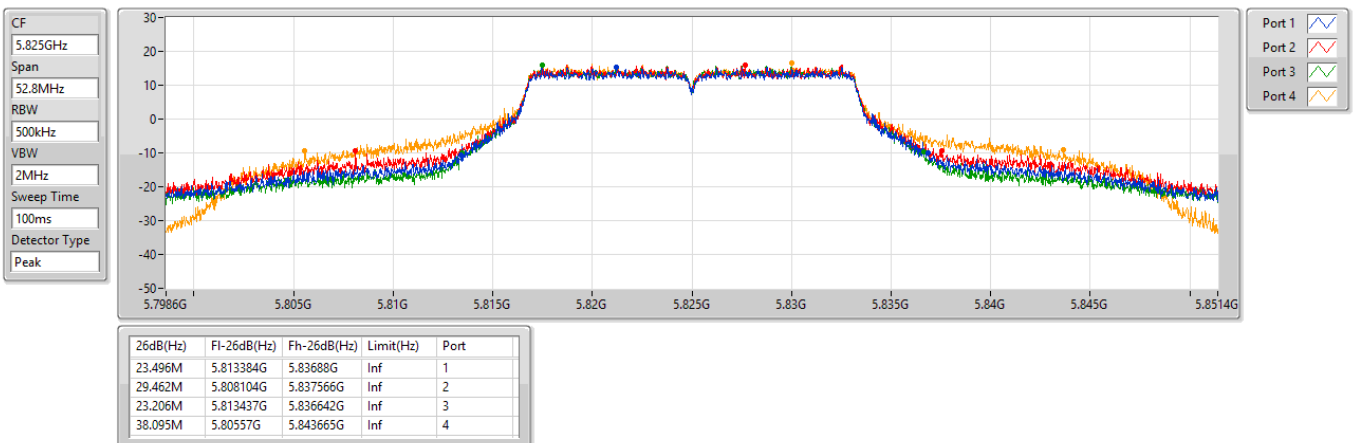
5825MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

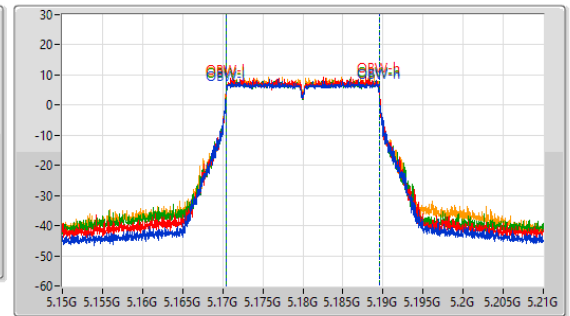
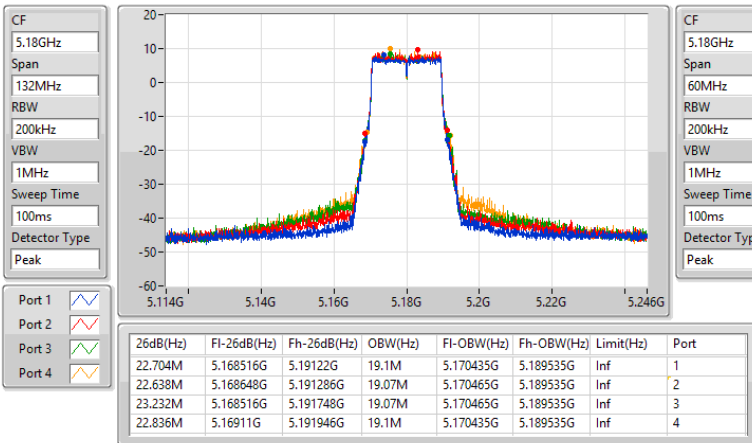




5.15-5.25GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

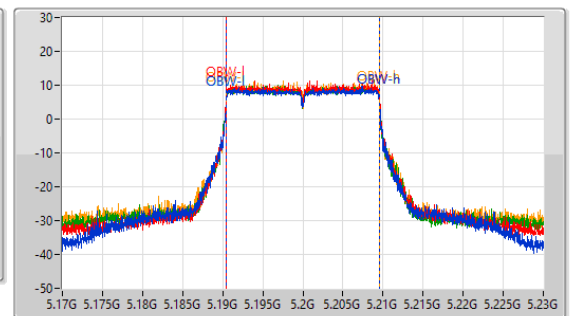
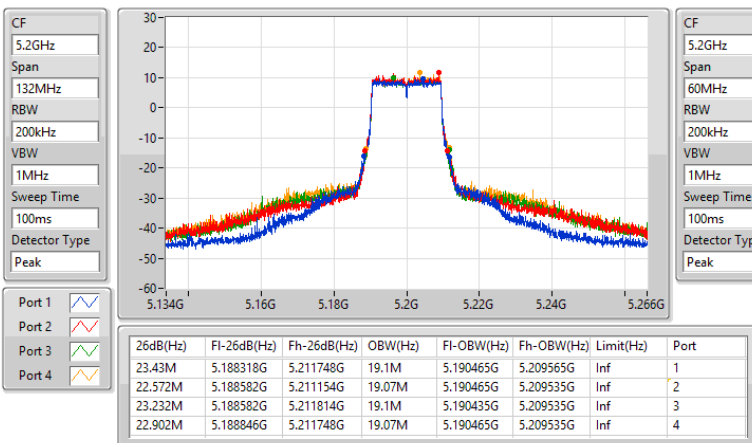
5180MHz



5.15-5.25GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

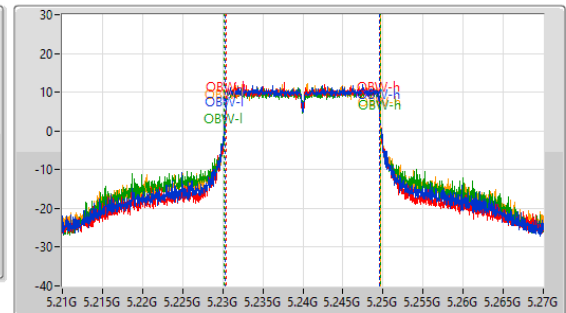
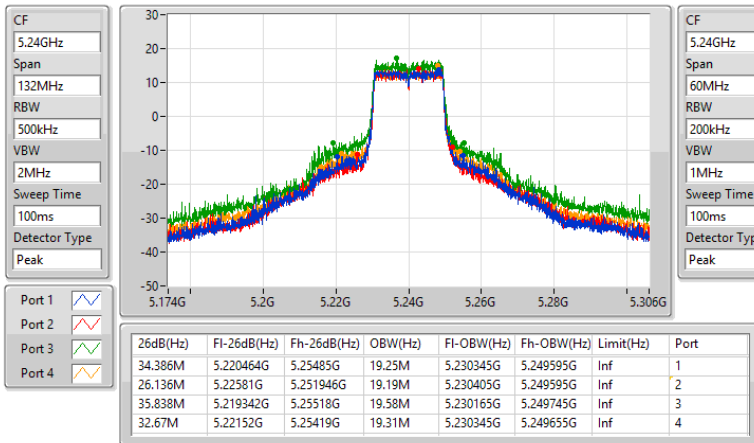
5200MHz



5.15-5.25GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

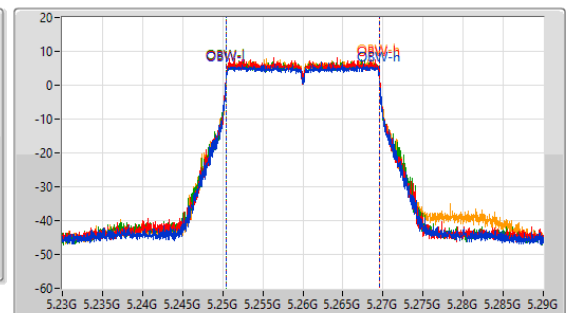
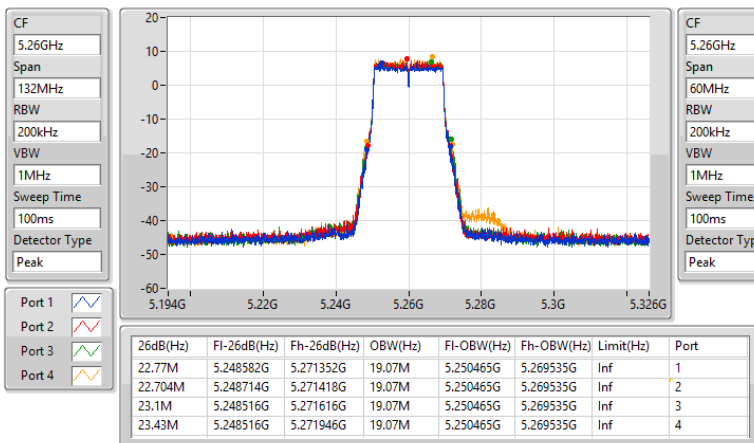
5240MHz



5.25-5.35GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

5260MHz

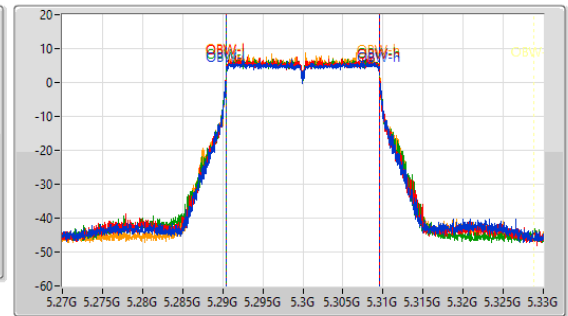
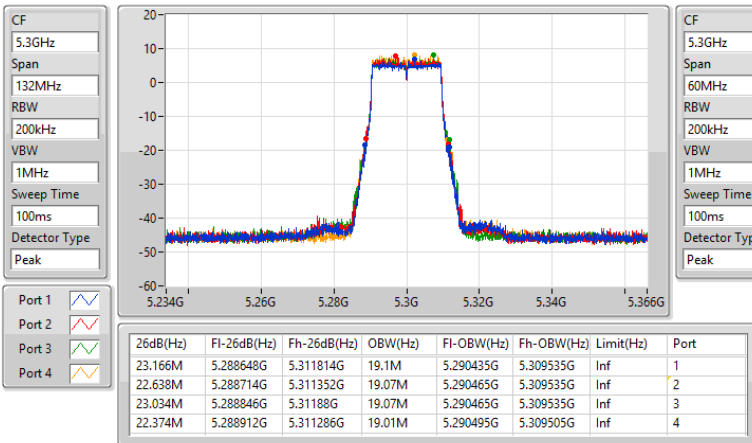




5.25-5.35GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

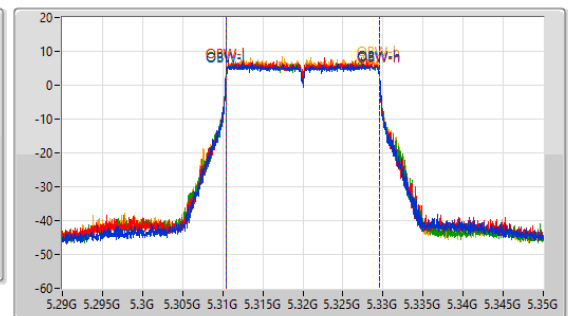
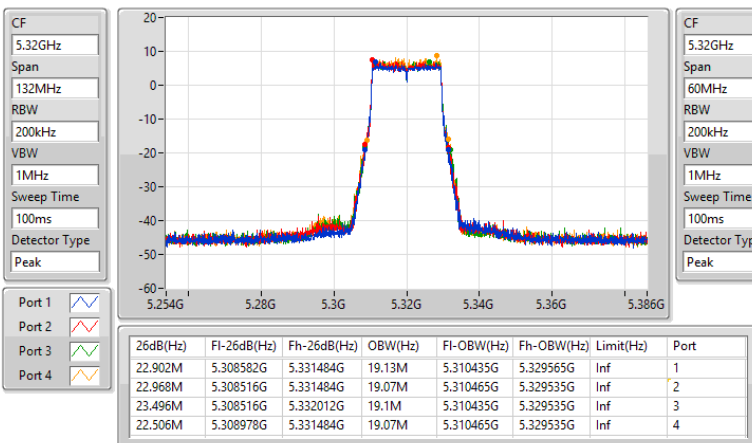
5300MHz



5.25-5.35GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

5320MHz

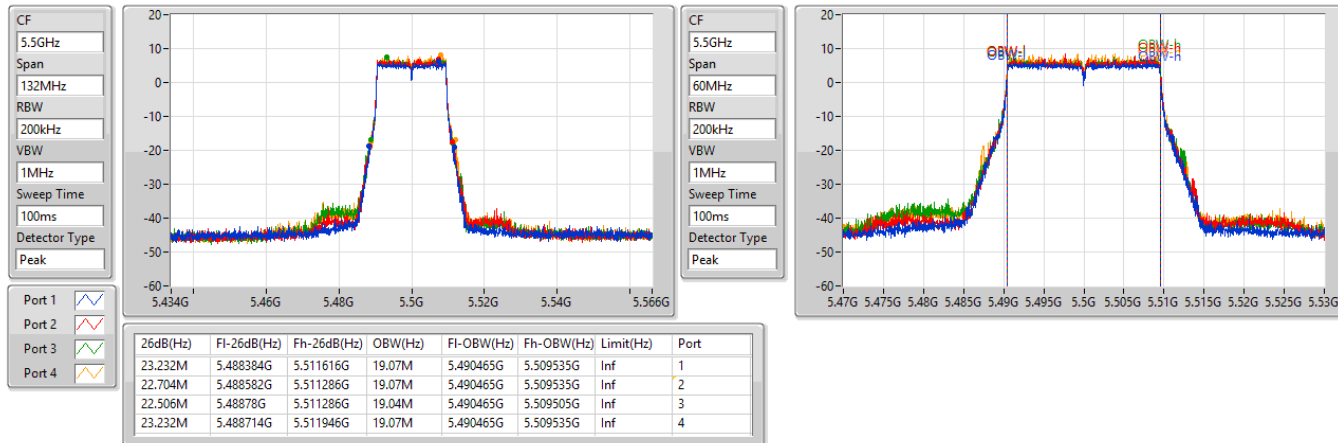




5.47-5.725GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

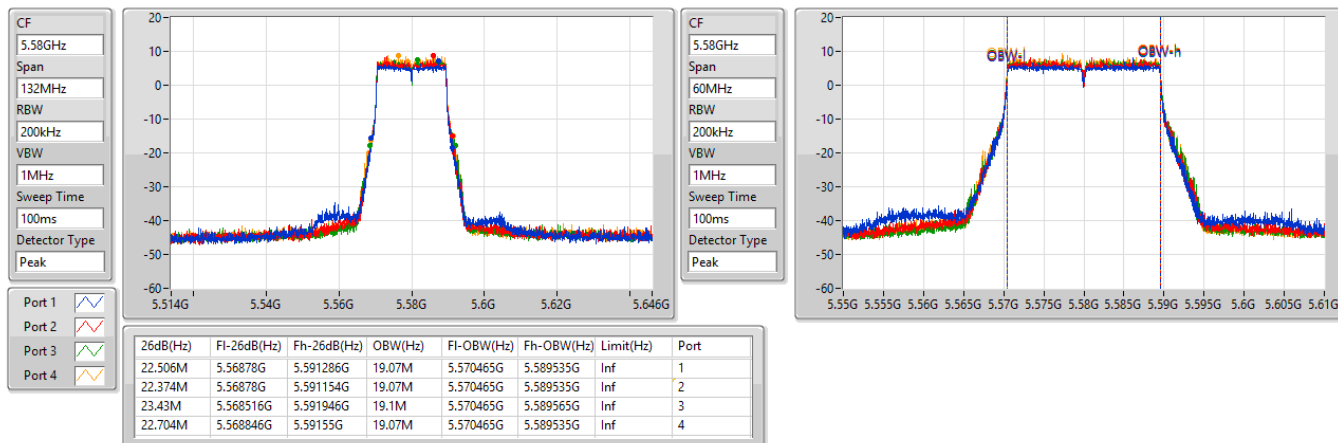
5500MHz



5.47-5.725GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

5580MHz

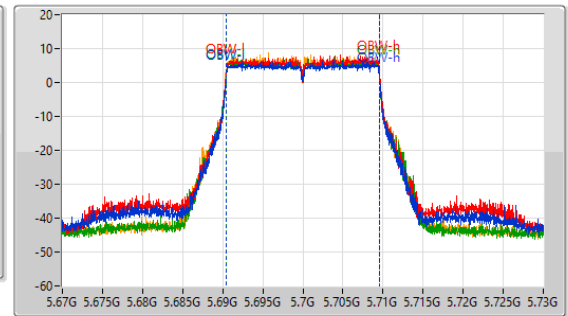
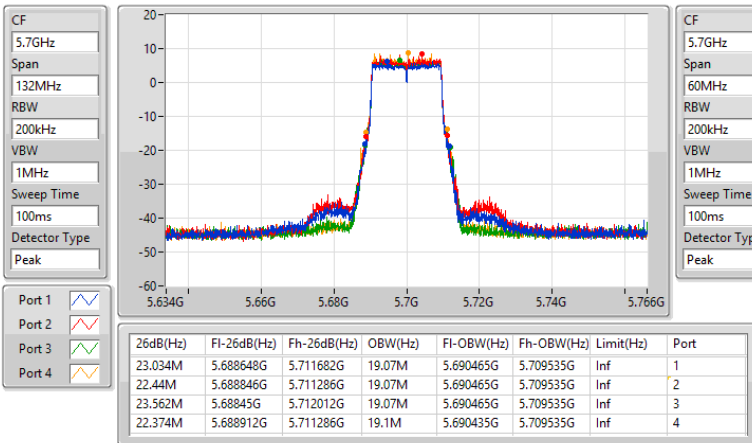




5.47-5.725GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

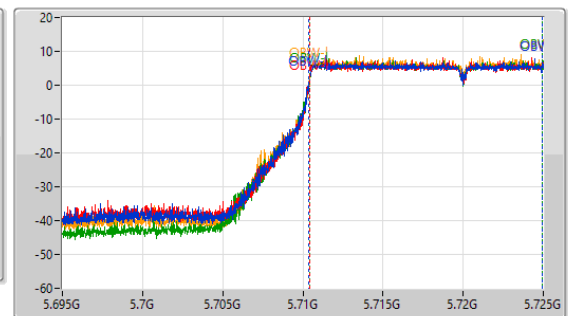
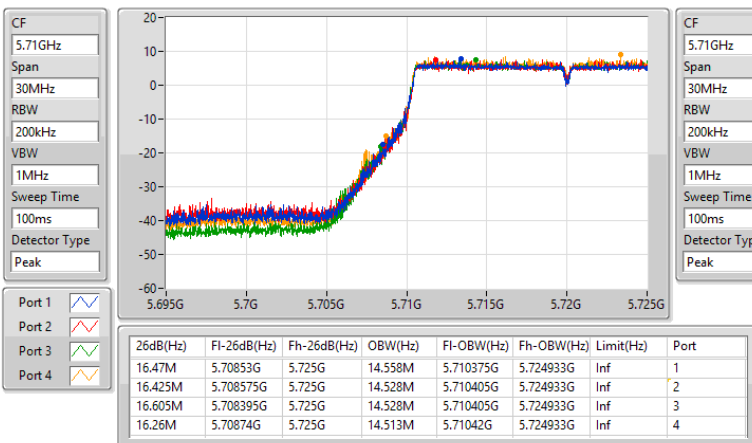
5700MHz



5.47-5.725GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

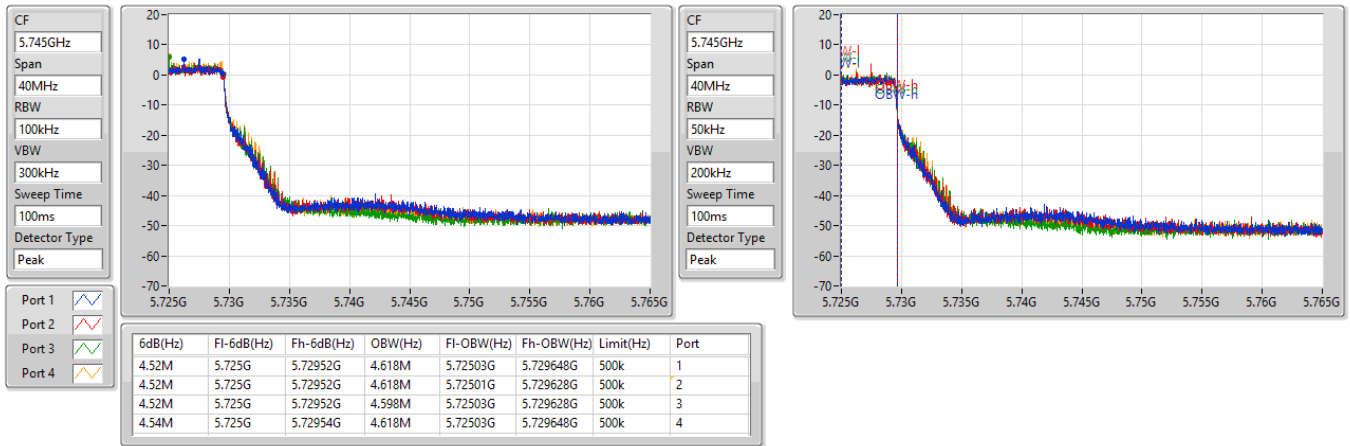




5.725-5.85GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

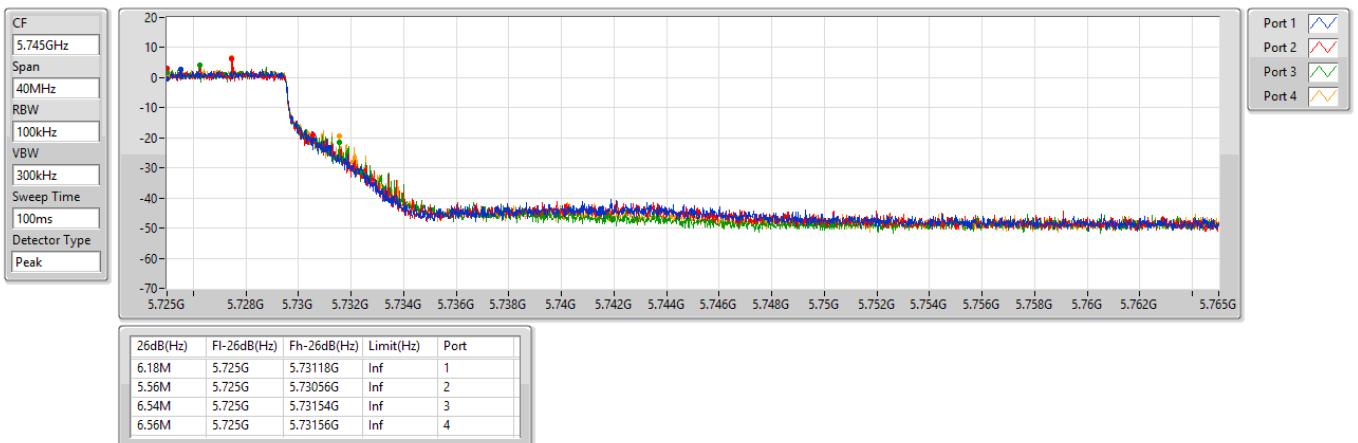
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

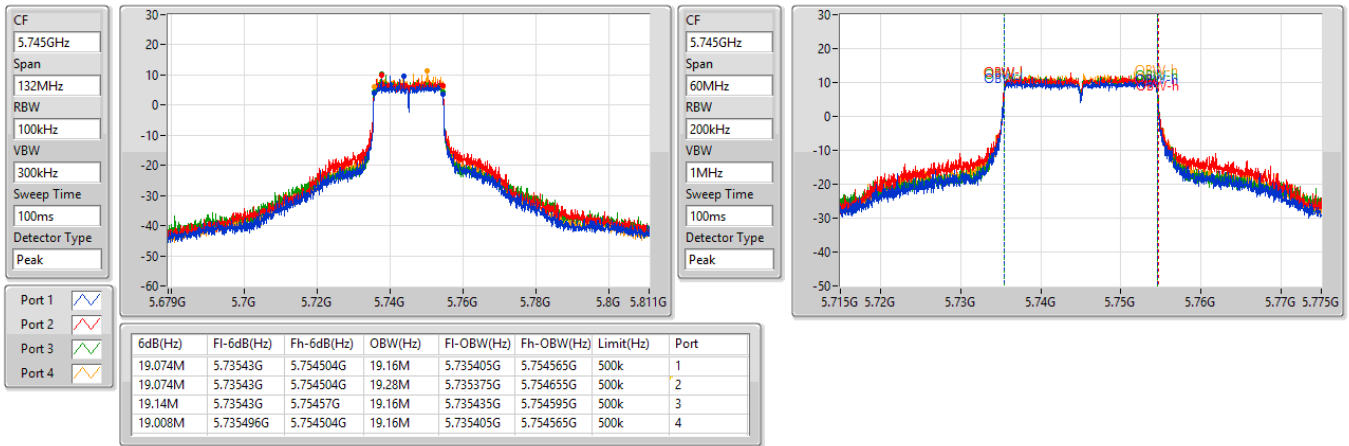




5.725-5.85GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

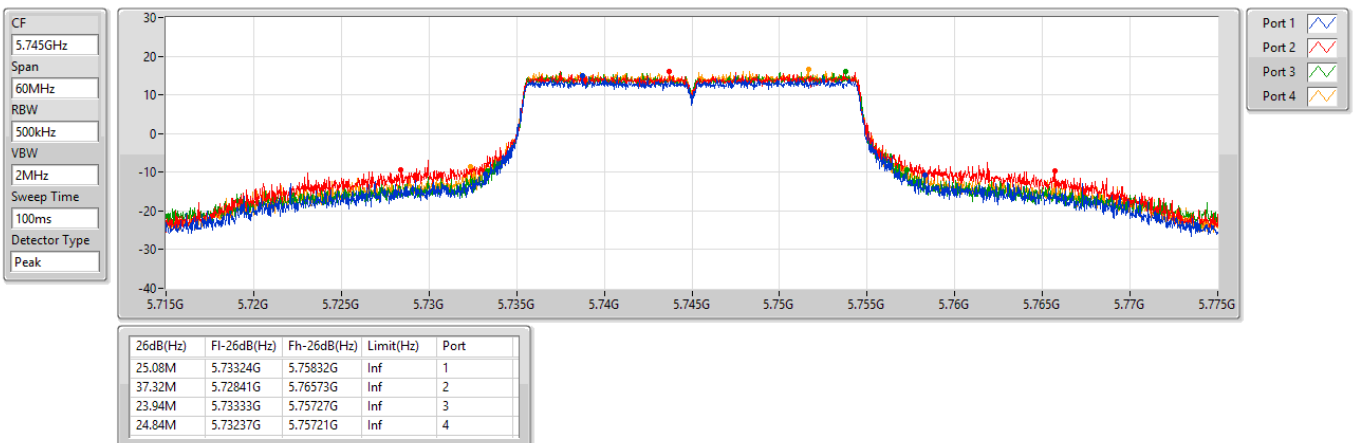
5745MHz



5.725-5.85GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

5745MHz

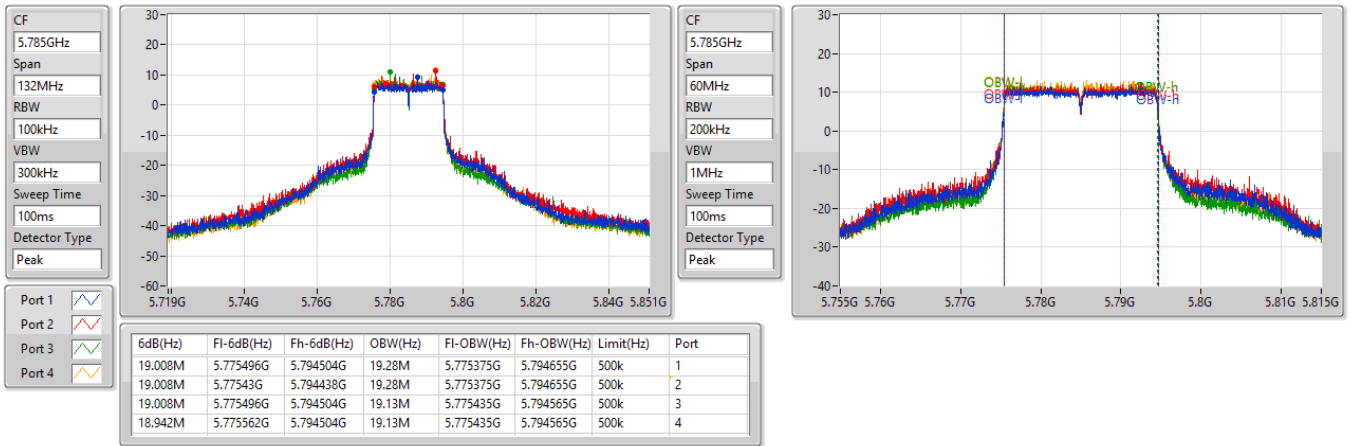




5.725-5.85GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

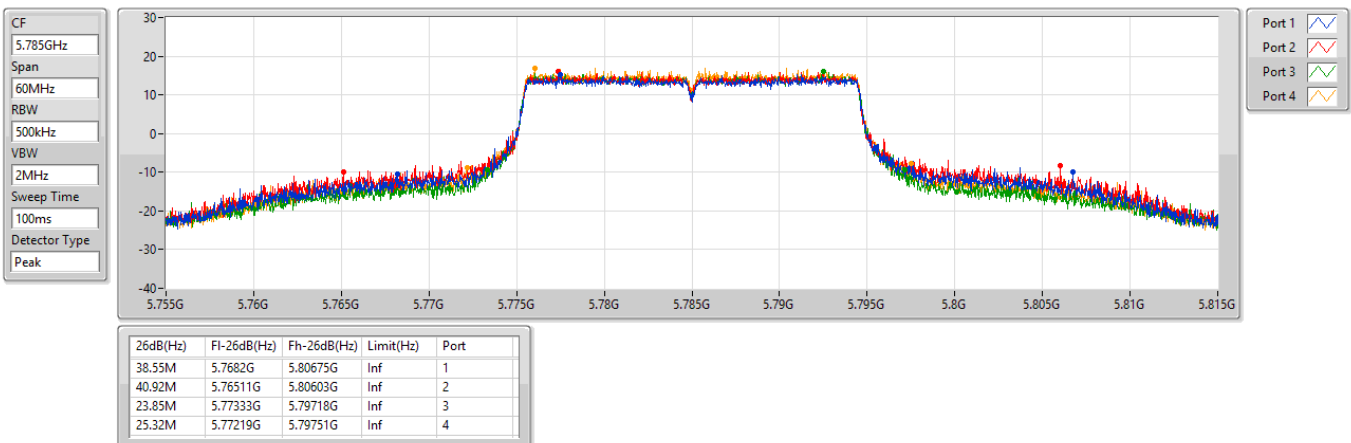
5785MHz



5.725-5.85GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

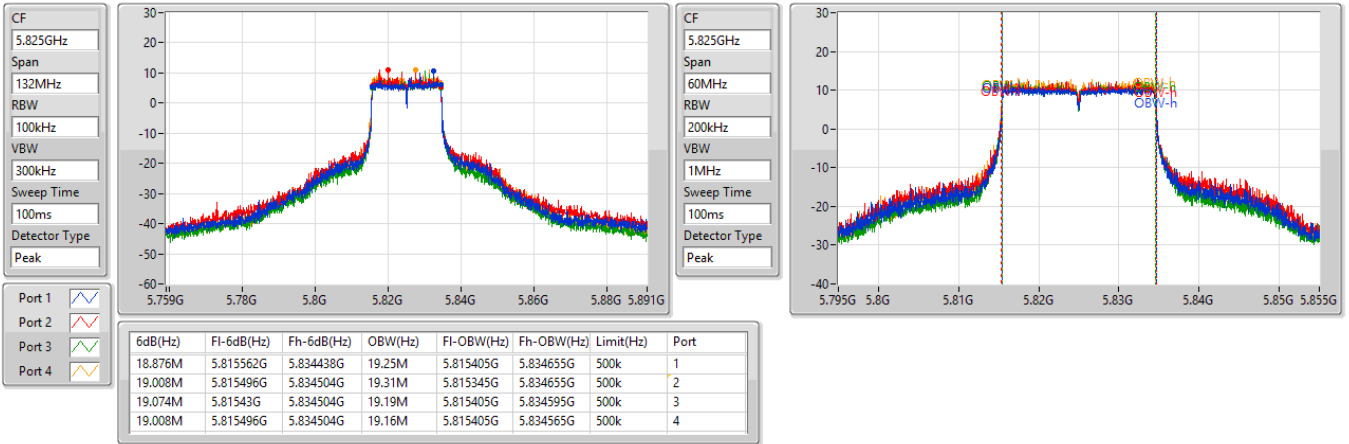
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5.725-5.85GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

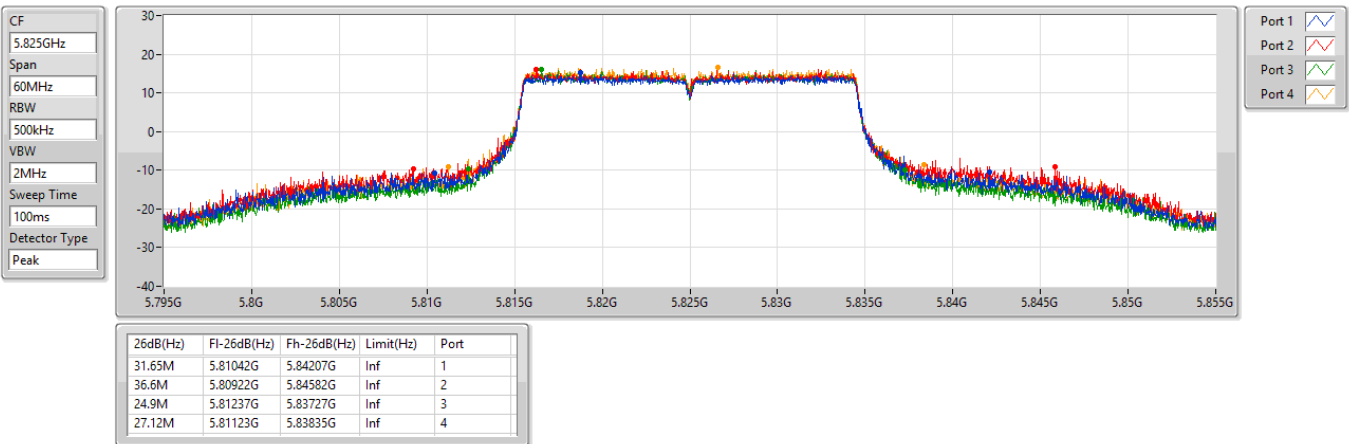
5825MHz



5.725-5.85GHz_802.11be EHT20_Nss4,(MCS0)_4TX

EBW

5825MHz

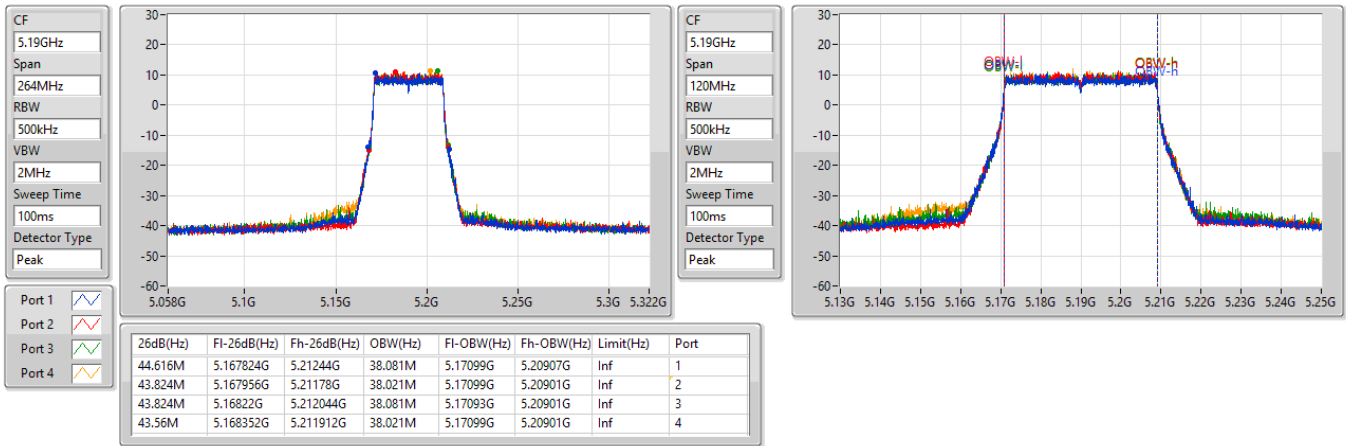




5.15-5.25GHz_802.11be EHT40_Nss4,(MCS0)_4TX

EBW

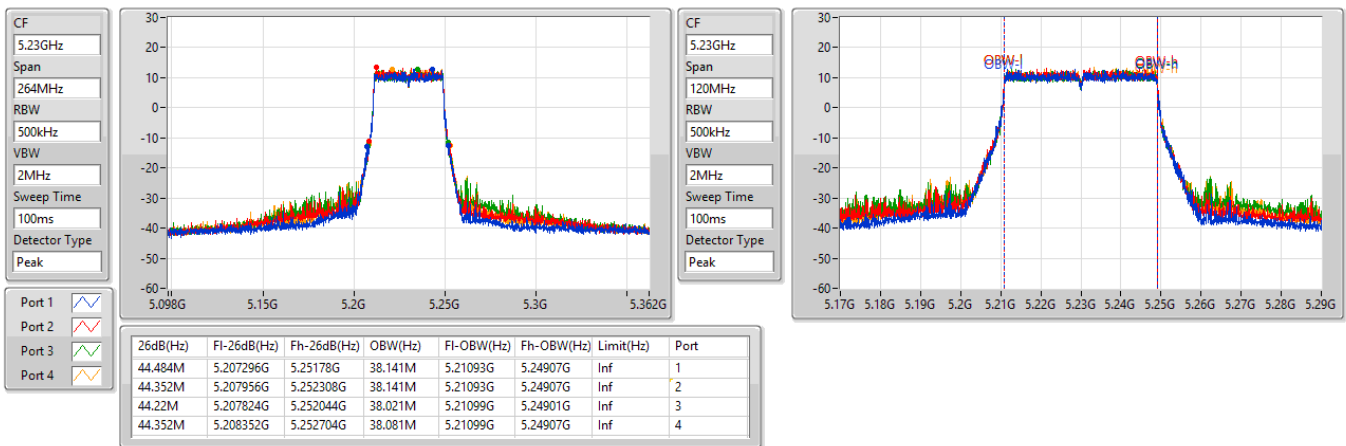
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5.15-5.25GHz_802.11be EHT40_Nss4,(MCS0)_4TX

EBW

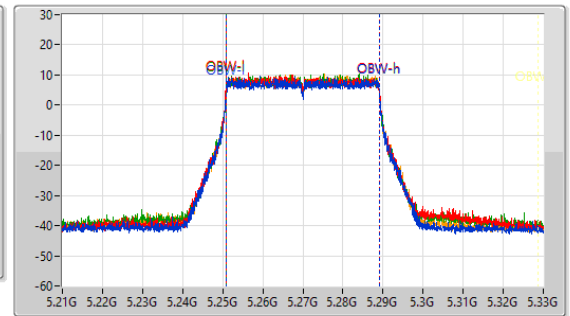
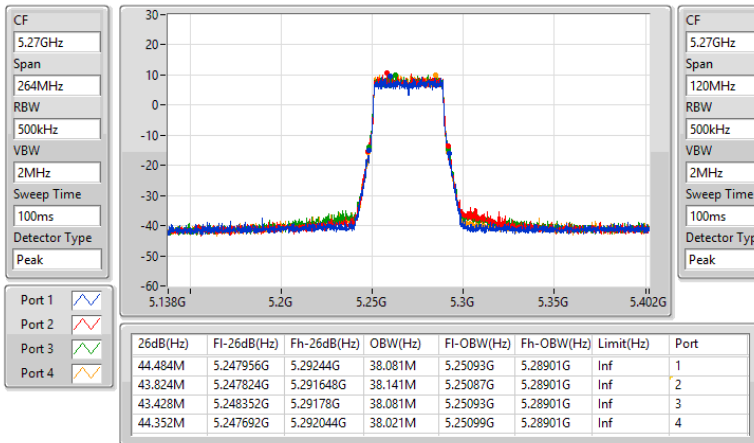
5230MHz



5.25-5.35GHz_802.11be EHT40_Nss4_(MCS0)_4TX

EBW

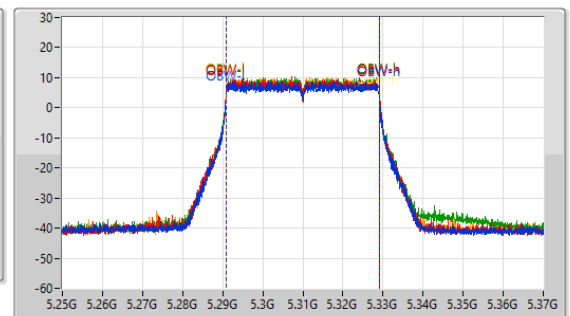
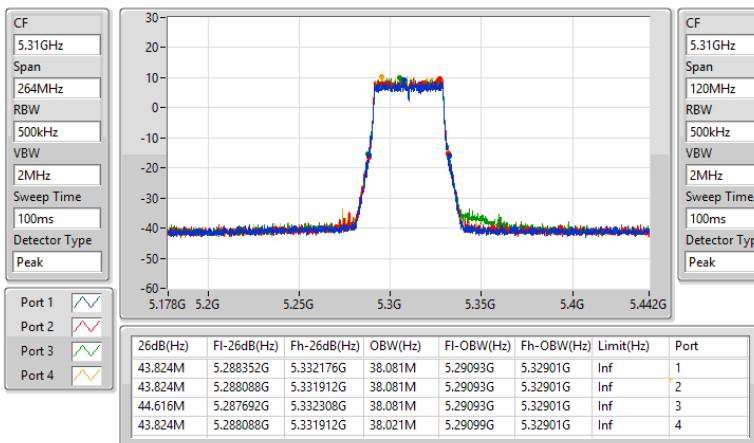
5270MHz



5.25-5.35GHz_802.11be EHT40_Nss4_(MCS0)_4TX

EBW

5310MHz

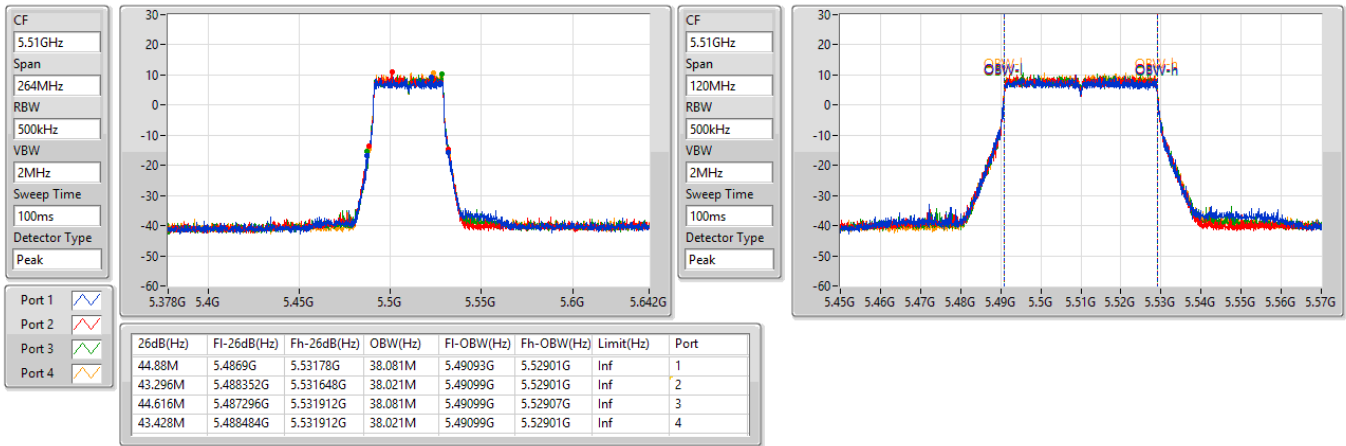




5.47-5.725GHz_802.11be EHT40_Nss4,(MCS0)_4TX

EBW

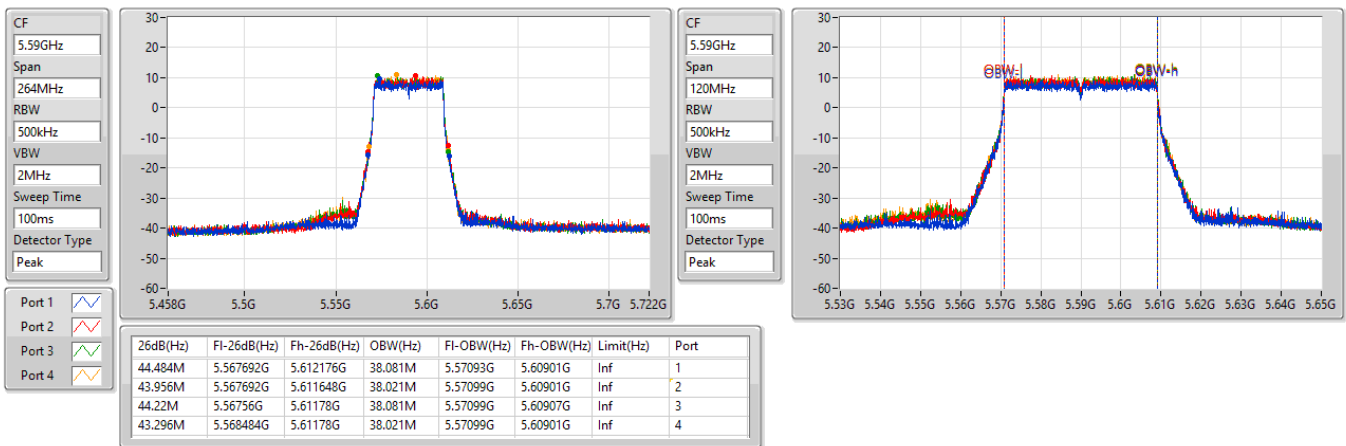
5510MHz



5.47-5.725GHz_802.11be EHT40_Nss4,(MCS0)_4TX

EBW

5590MHz

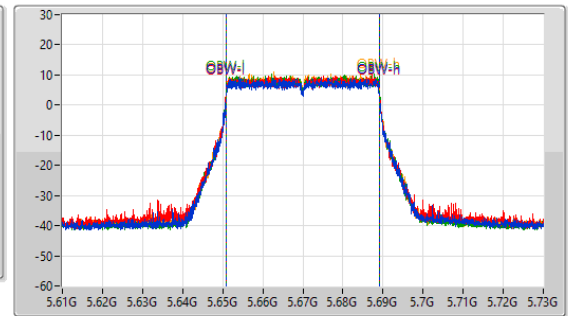
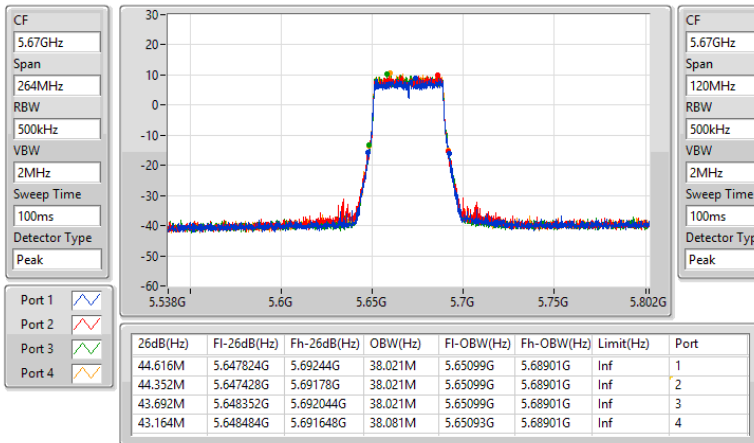




5.47-5.725GHz_802.11be EHT40_Nss4,(MCS0)_4TX

EBW

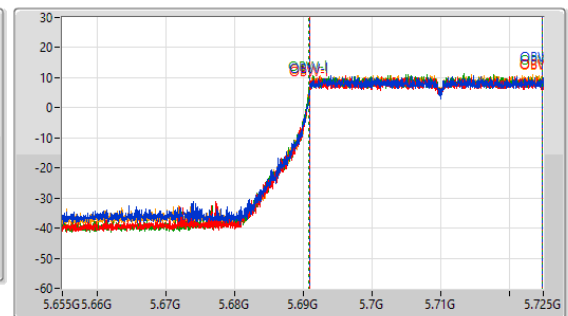
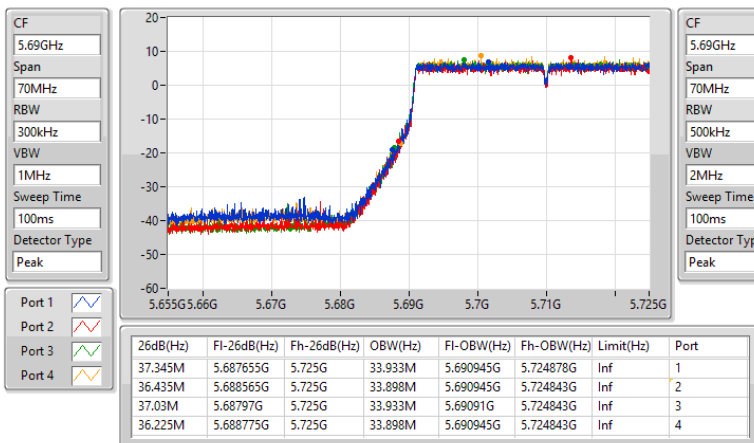
5670MHz



5.47-5.725GHz_802.11be EHT40_Nss4,(MCS0)_4TX

EBW

5710MHz Straddle 5.47-5.725GHz

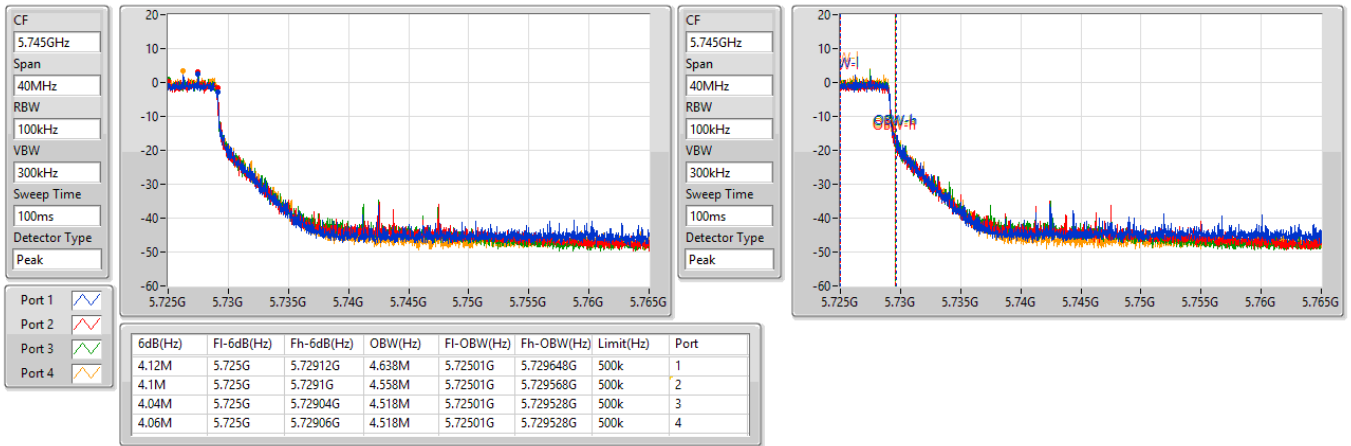




5.725-5.85GHz_802.11be EHT40_Nss4,(MCS0)_4TX

EBW

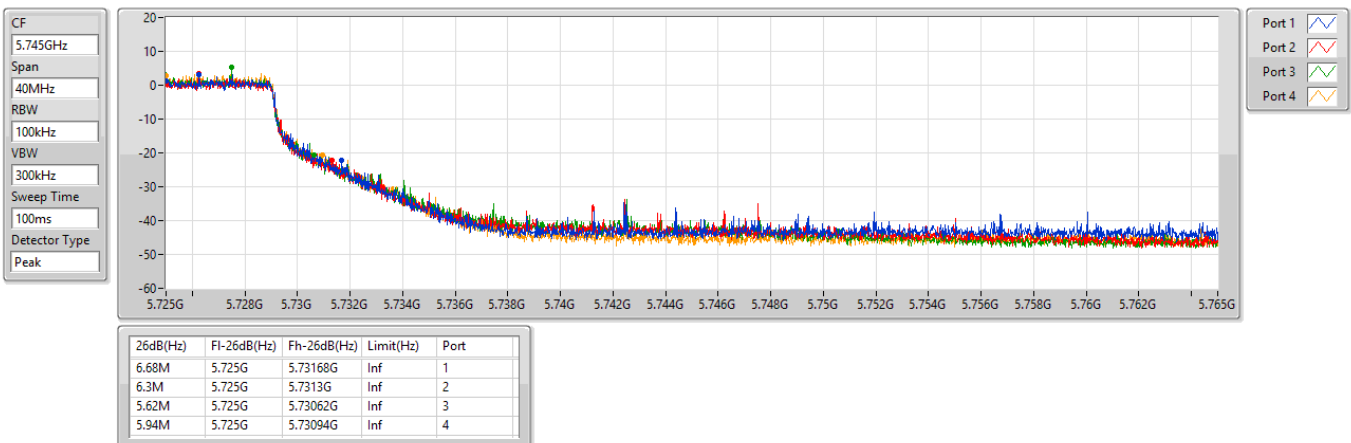
5710MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT40_Nss4,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

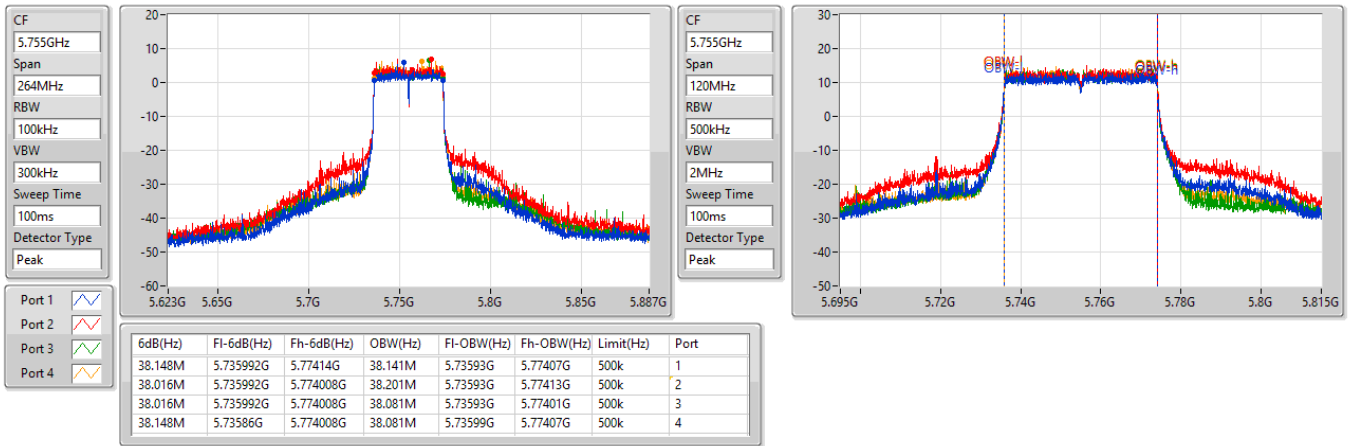




5.725-5.85GHz_802.11be EHT40_Nss4,(MCS0)_4TX

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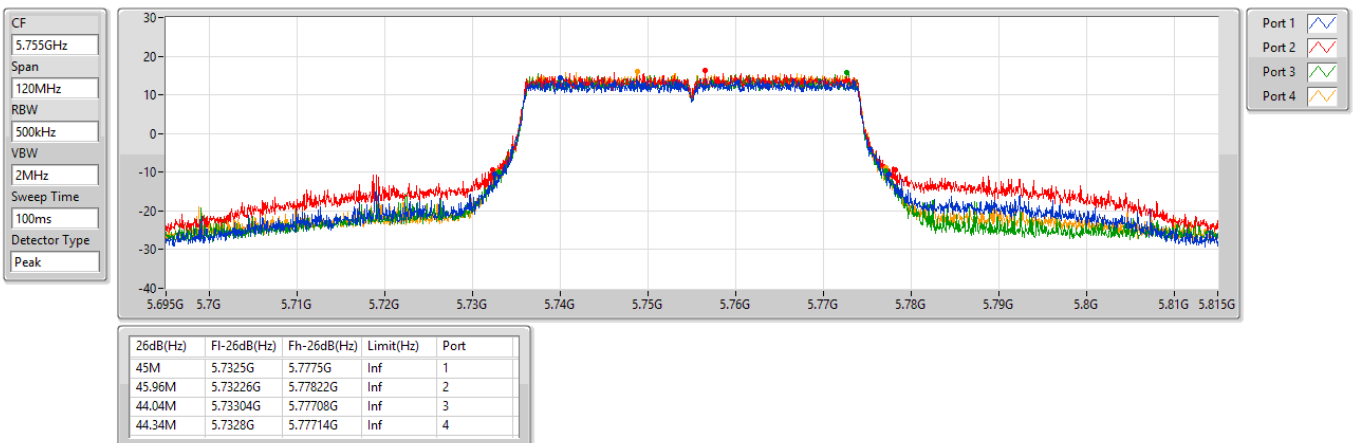
5755MHz



5.725-5.85GHz_802.11be EHT40_Nss4,(MCS0)_4TX

EBW

5755MHz

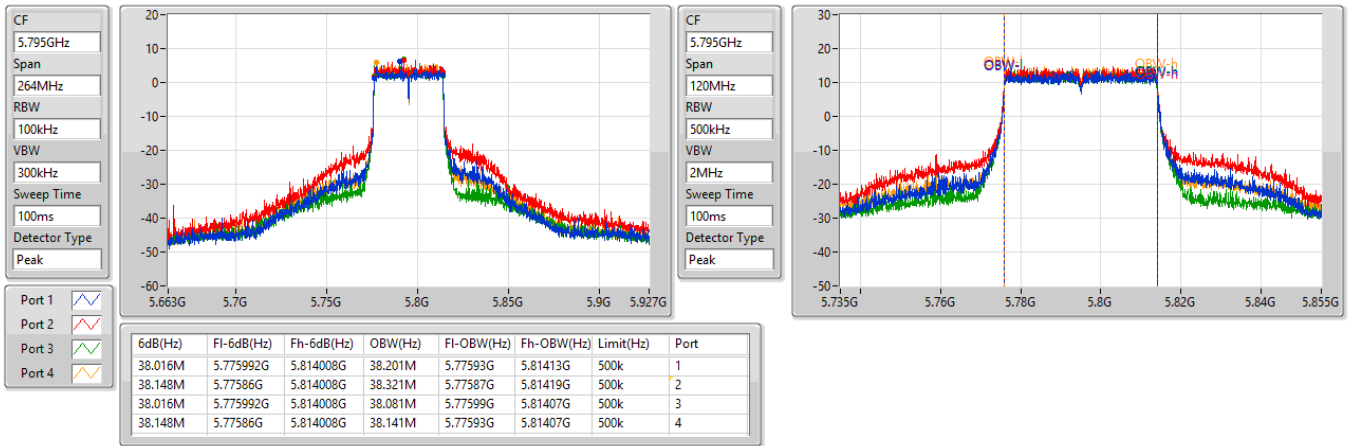




5.725-5.85GHz_802.11be EHT40_Nss4,(MCS0)_4TX

EBW

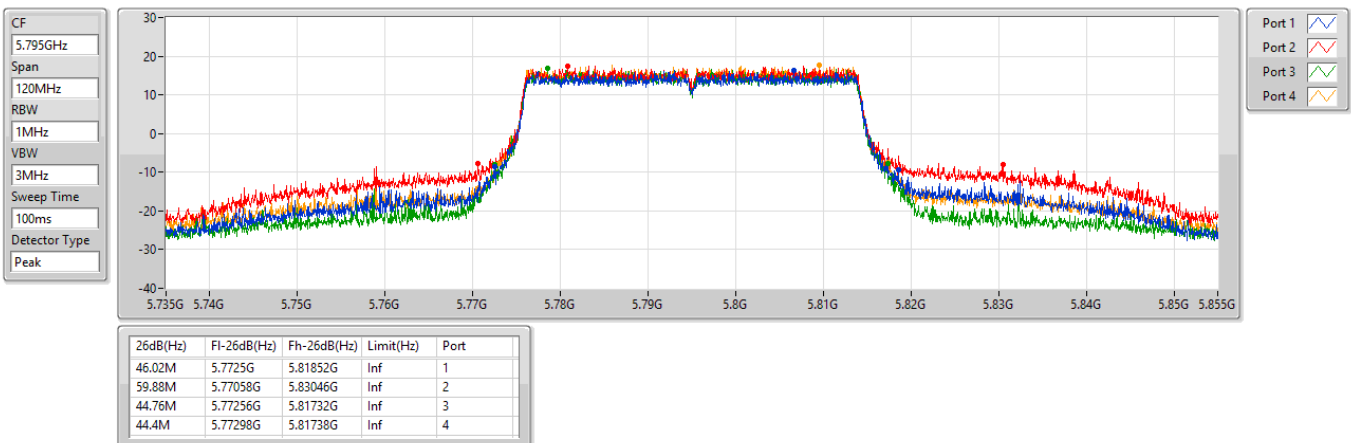
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5.725-5.85GHz_802.11be EHT40_Nss4,(MCS0)_4TX

EBW

5795MHz

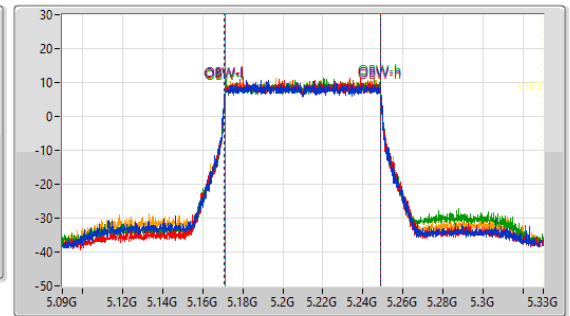
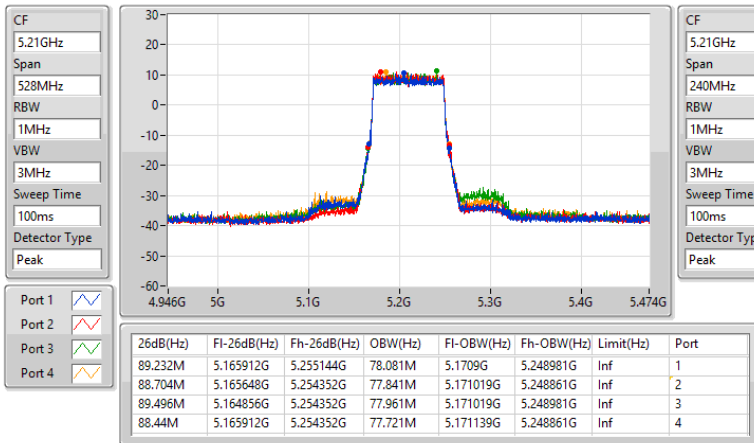




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EBW

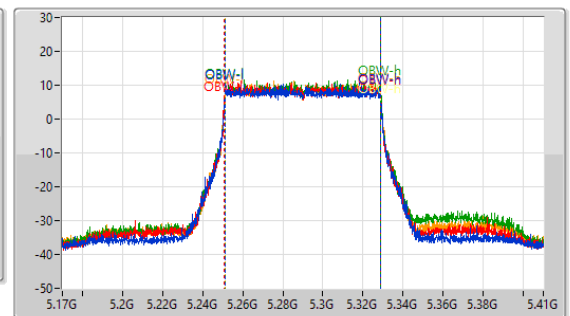
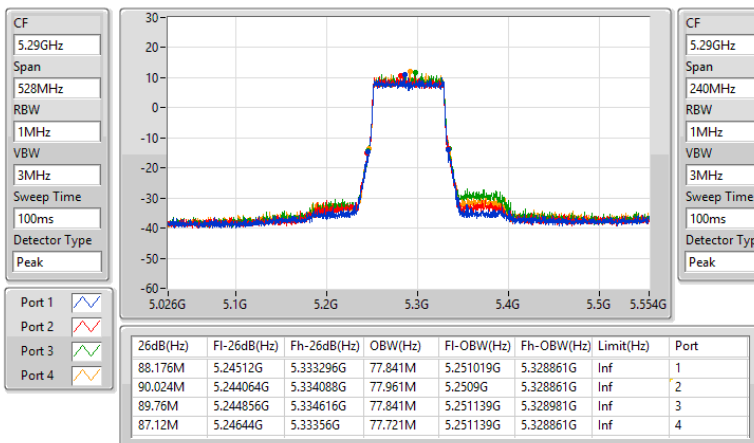
5210MHz



5.25-5.35GHz_802.11be EHT80_Nss4,(MCS0)_4TX

EBW

5290MHz

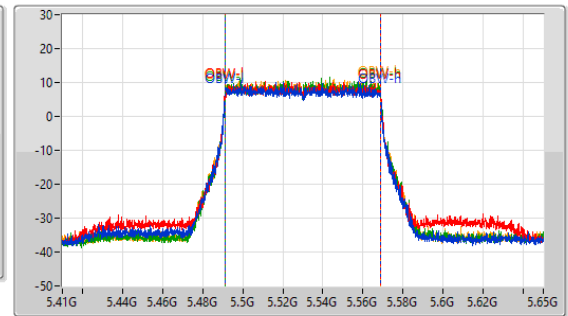
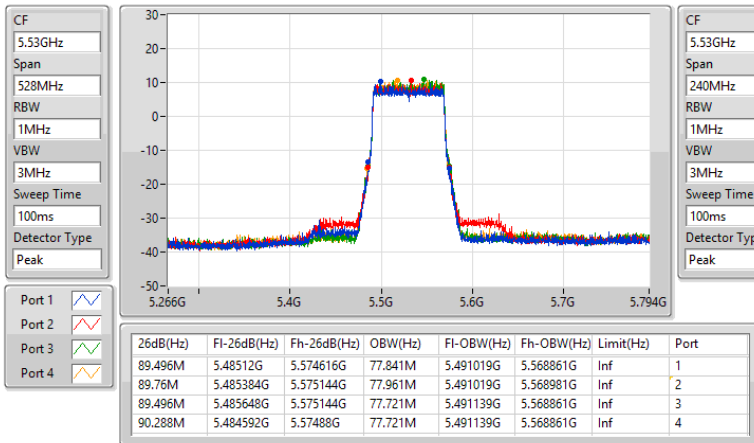




5.47-5.725GHz_802.11be EHT80_Nss4,(MCS0)_4TX

EBW

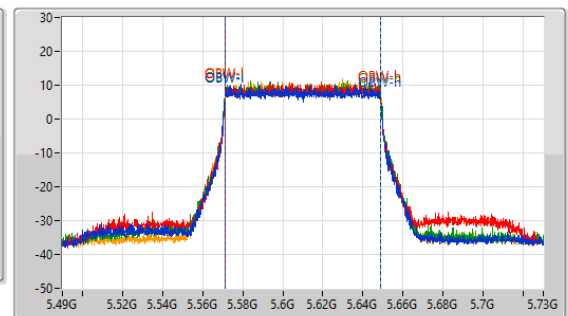
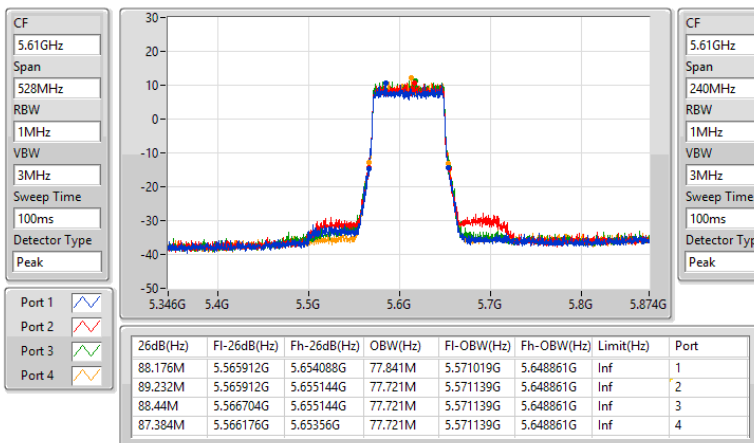
5530MHz



5.47-5.725GHz_802.11be EHT80_Nss4,(MCS0)_4TX

EBW

5610MHz

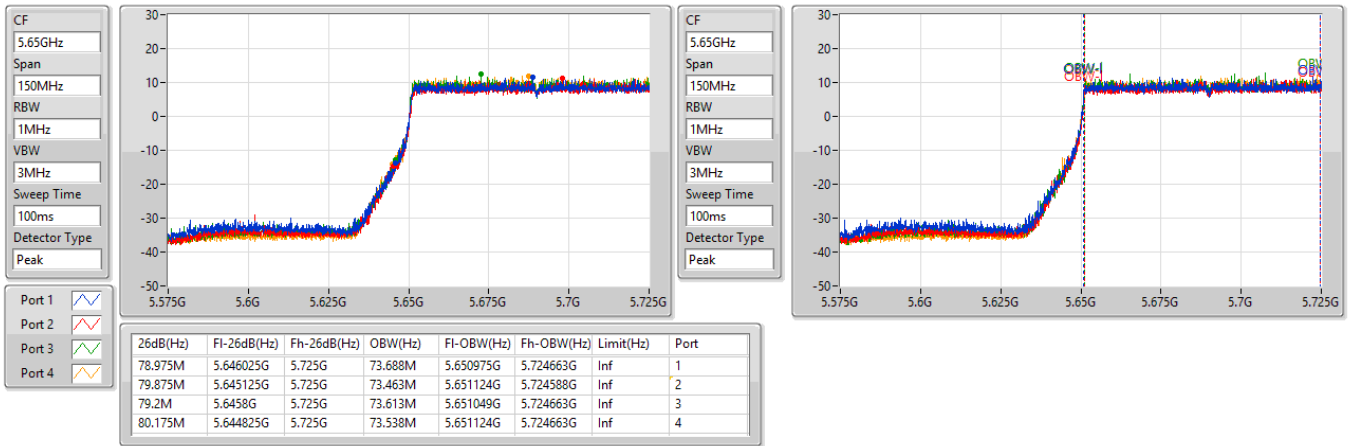




5.47-5.725GHz_802.11be EHT80_Nss4,(MCS0)_4TX

EBW

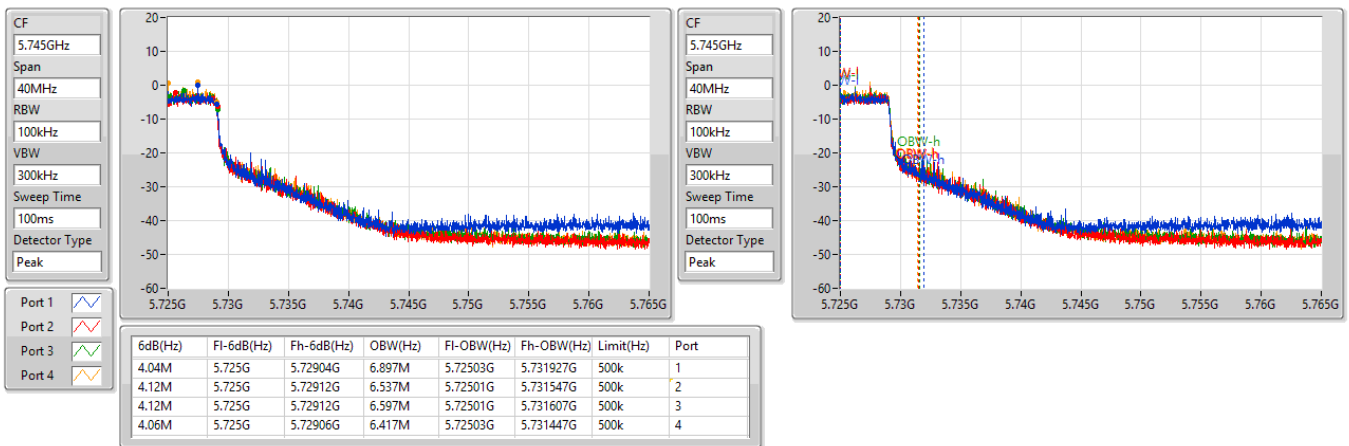
5690MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11be EHT80_Nss4,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

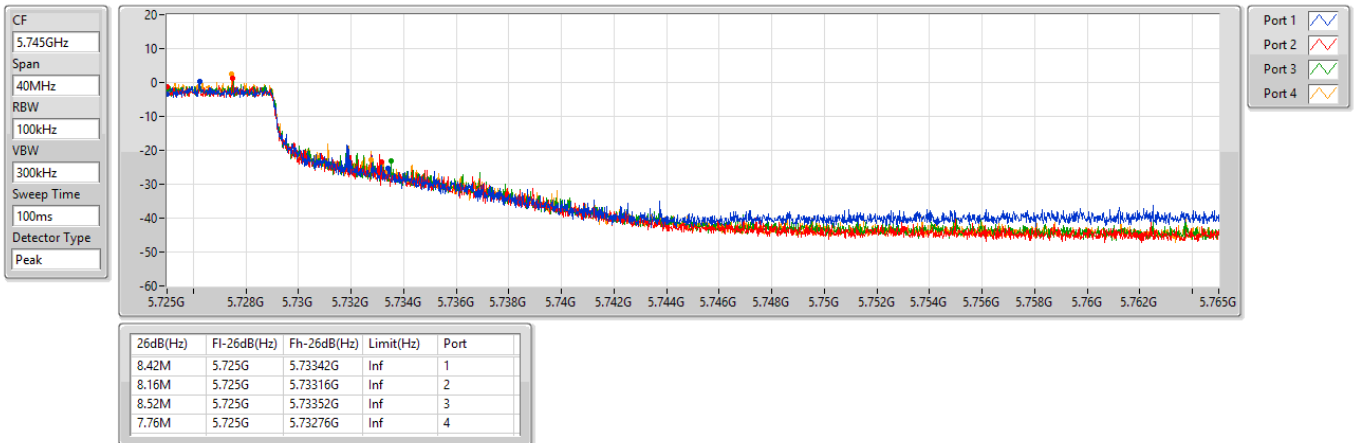




5.725-5.85GHz_802.11be EHT80_Nss4,(MCS0)_4TX

EBW

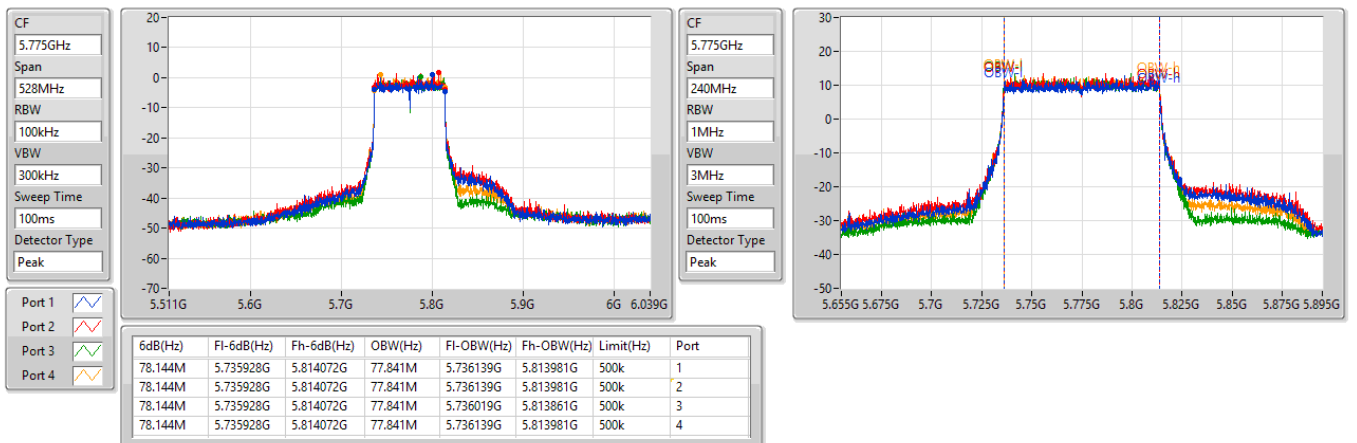
5690MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11be EHT80_Nss4,(MCS0)_4TX

EBW

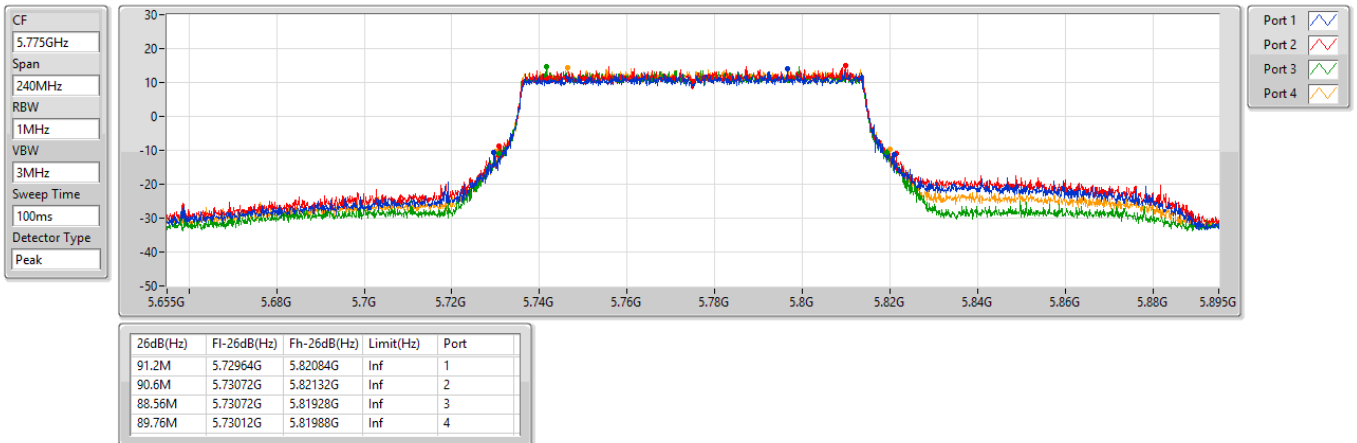
5775MHz



5.725-5.85GHz_802.11be EHT80_Nss4,(MCS0)_4TX

EBW

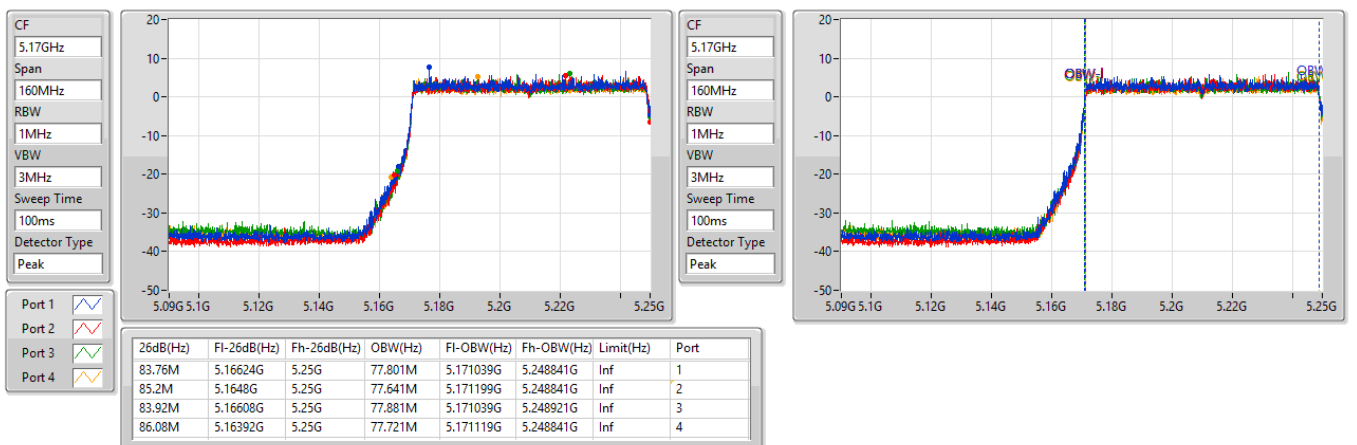
5775MHz



5.15-5.25GHz_802.11be EHT160_Nss4,(MCS0)_4TX

EBW

5250MHz Straddle 5.15-5.25GHz

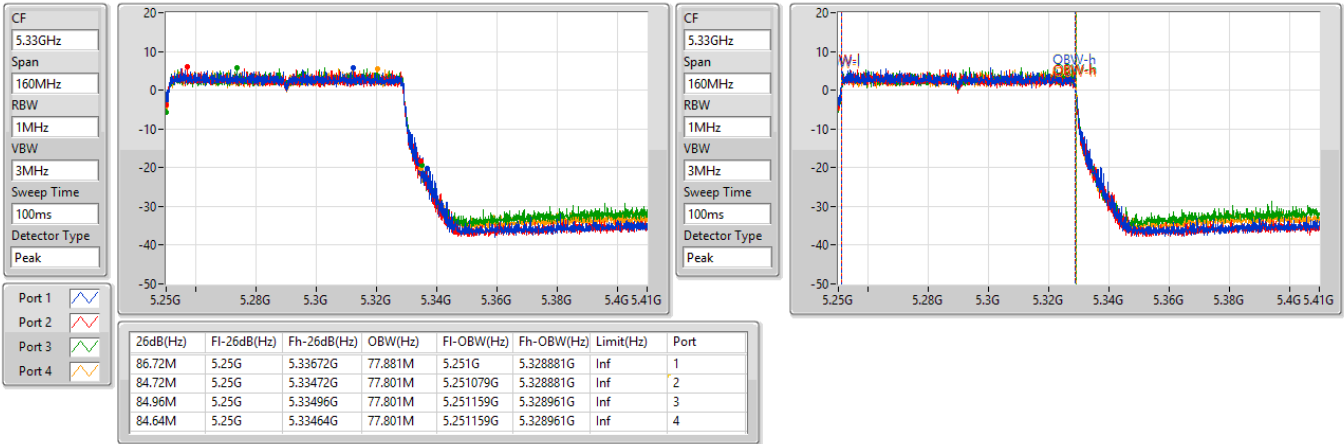




5.25-5.35GHz_802.11be EHT160_Nss4,(MCS0)_4TX

EBW

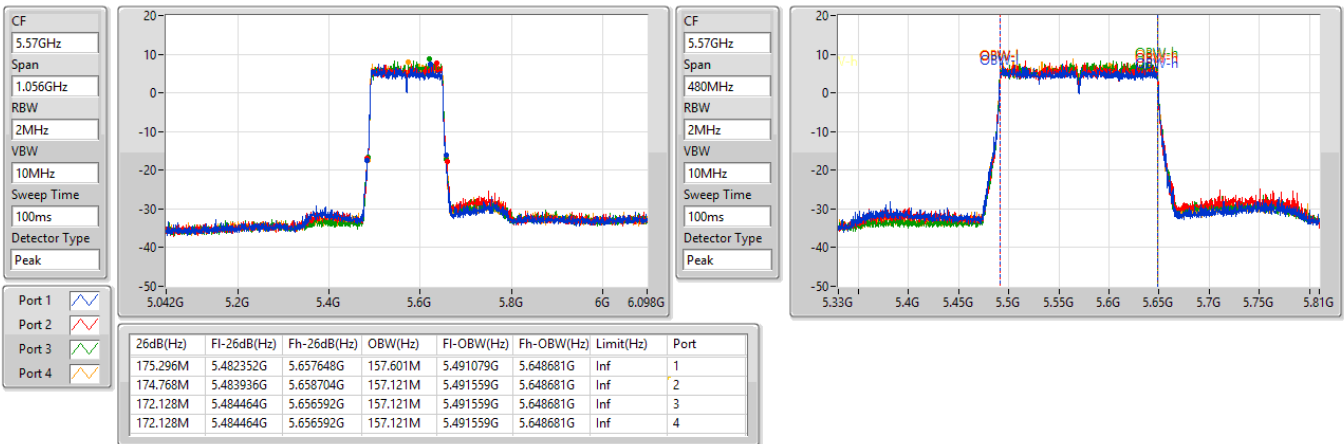
5250MHz Straddle 5.25-5.35GHz



5.47-5.725GHz_802.11be EHT160_Nss4,(MCS0)_4TX

EBW

5570MHz

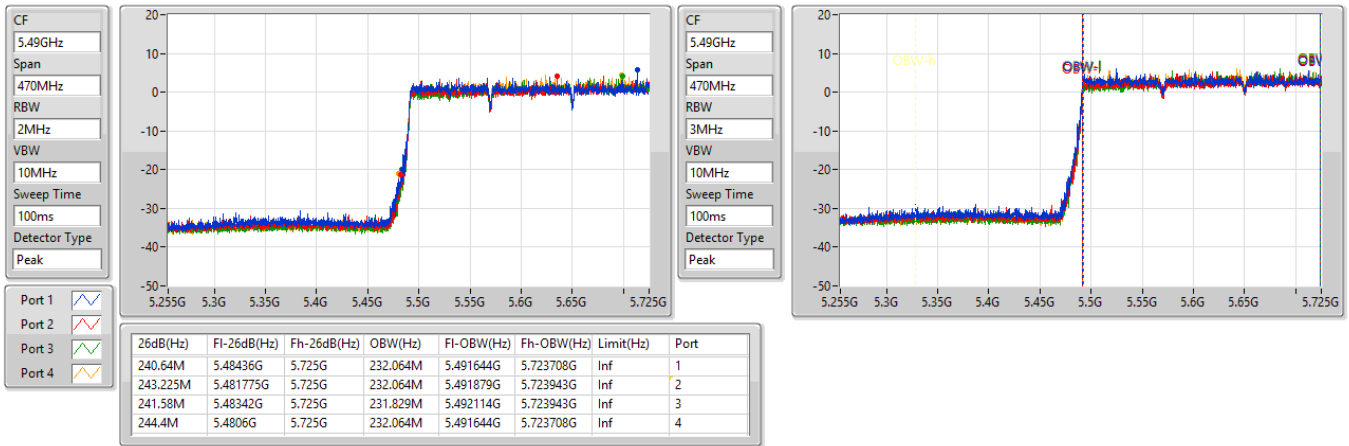




5.47-5.725GHz_be240_240MHz_Nss4,(MCS0)_4TX

EBW

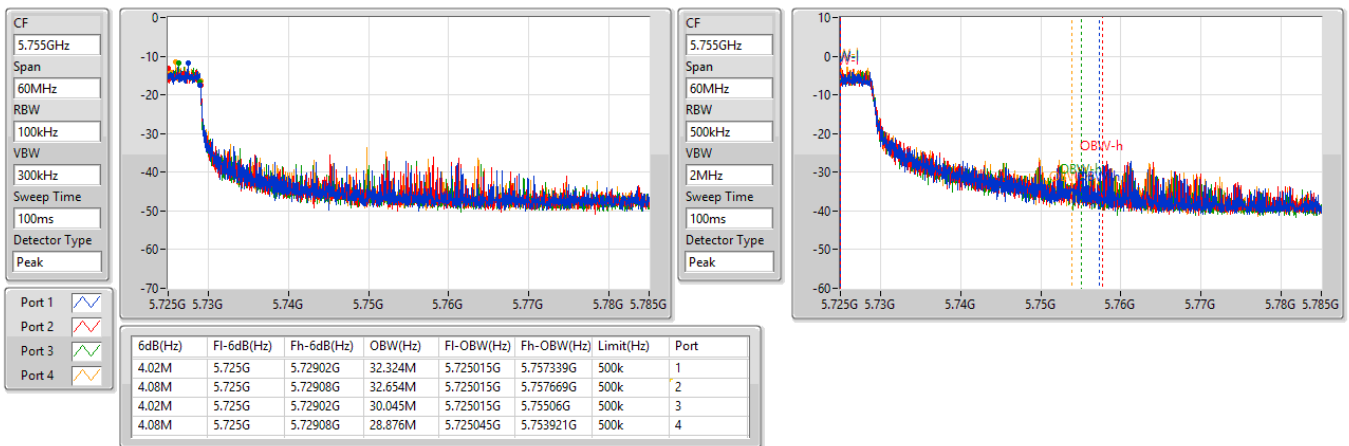
5610MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_be240_240MHz_Nss4,(MCS0)_4TX

EBW

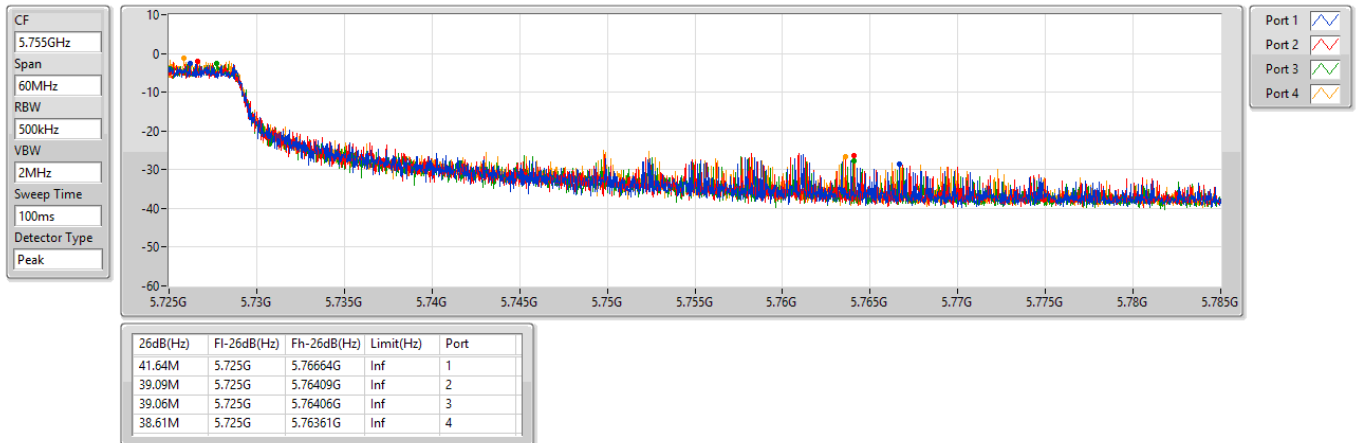
5610MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_be240_240MHz_Nss4_(MCS0)_4TX

EBW

5610MHz Straddle 5.725-5.85GHz



Non-beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	27.41	0.55081	30.51	1.12460
802.11be EHT20_Nss4,(MCS0)_4TX	27.98	0.62806	30.37	1.08893
802.11be EHT40_Nss4,(MCS0)_4TX	26.35	0.43152	28.74	0.74817
802.11be EHT80_Nss4,(MCS0)_4TX	23.71	0.23496	26.10	0.40738
802.11be EHT160_Nss4,(MCS0)_4TX	18.07	0.06412	20.46	0.11117
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.14	0.13002	24.34	0.27164
802.11be EHT20_Nss4,(MCS0)_4TX	23.66	0.23227	26.44	0.44055
802.11be EHT40_Nss4,(MCS0)_4TX	23.59	0.22856	26.37	0.43351
802.11be EHT80_Nss4,(MCS0)_4TX	23.67	0.23281	26.45	0.44157
802.11be EHT160_Nss4,(MCS0)_4TX	18.16	0.06546	20.94	0.12417
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.05	0.12735	24.30	0.26915
802.11be EHT20_Nss4,(MCS0)_4TX	23.59	0.22856	26.11	0.40832
802.11be EHT40_Nss4,(MCS0)_4TX	23.78	0.23878	26.30	0.42658
802.11be EHT80_Nss4,(MCS0)_4TX	23.88	0.24434	26.40	0.43652
802.11be EHT160_Nss4,(MCS0)_4TX	20.62	0.11535	23.14	0.20606
be240_240MHz_Nss4,(MCS0)_4TX	17.90	0.06166	20.42	0.11015
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	28.47	0.70307	32.24	1.67494
802.11be EHT20_Nss4,(MCS0)_4TX	28.51	0.70958	31.07	1.27938
802.11be EHT40_Nss4,(MCS0)_4TX	27.66	0.58345	30.22	1.05196
802.11be EHT80_Nss4,(MCS0)_4TX	25.43	0.34914	27.99	0.62951
be240_240MHz_Nss4,(MCS0)_4TX	0.84	0.00121	3.40	0.00219

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.10	19.14	19.48	19.12	19.46	25.32	30.00	28.42	36.00
5200MHz	Pass	3.10	20.58	21.02	20.71	20.83	26.81	30.00	29.91	36.00
5240MHz	Pass	3.10	21.63	21.25	21.32	21.36	27.41	30.00	30.51	36.00
5260MHz	Pass	3.20	14.92	14.76	14.78	14.65	20.80	24.00	24.00	30.00
5300MHz	Pass	3.20	14.95	14.81	14.72	15.11	20.92	24.00	24.12	30.00
5320MHz	Pass	3.20	15.02	15.08	14.93	15.42	21.14	24.00	24.34	30.00
5500MHz	Pass	3.25	14.83	14.62	15.2	15.13	20.97	24.00	24.22	30.00
5580MHz	Pass	3.25	15.09	14.59	14.97	15.16	20.98	24.00	24.23	30.00
5700MHz	Pass	3.25	14.76	14.96	15.16	15.23	21.05	24.00	24.30	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.25	14.32	13.88	14.5	14.8	20.41	23.14	23.66	29.14
5720MHz Straddle 5.725-5.85GHz	Pass	3.77	8.54	8.27	8.78	8.91	14.65	30.00	18.42	36.00
5745MHz	Pass	3.77	22.25	22.14	22.35	22.64	28.37	30.00	32.14	36.00
5785MHz	Pass	3.77	22.17	22.32	22.42	22.84	28.47	30.00	32.24	36.00
5825MHz	Pass	3.77	22.36	22.26	22.36	22.64	28.43	30.00	32.20	36.00
802.11be EHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	2.39	18.86	18.91	18.59	18.94	24.85	30.00	27.24	36.00
5200MHz	Pass	2.39	20.16	20.61	20.29	20.48	26.41	30.00	28.80	36.00
5240MHz	Pass	2.39	22.16	22.08	21.66	21.92	27.98	30.00	30.37	36.00
5260MHz	Pass	2.78	17.88	17.64	17.18	17.79	23.65	24.00	26.43	30.00
5300MHz	Pass	2.78	17.82	17.45	17.43	17.85	23.66	24.00	26.44	30.00
5320MHz	Pass	2.78	17.55	17.39	17.72	17.86	23.65	24.00	26.43	30.00
5500MHz	Pass	2.52	17.45	17.12	17.62	17.82	23.53	24.00	26.05	30.00
5580MHz	Pass	2.52	17.63	17.37	17.56	17.72	23.59	24.00	26.11	30.00
5700MHz	Pass	2.52	17.43	17.15	17.56	17.86	23.53	24.00	26.05	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.52	16.38	16.13	16.38	16.72	22.43	23.11	24.95	29.11
5720MHz Straddle 5.725-5.85GHz	Pass	2.56	11.49	11.3	11.59	11.9	17.60	30.00	20.16	36.00
5745MHz	Pass	2.56	22.26	22.11	22.51	22.74	28.43	30.00	30.99	36.00
5785MHz	Pass	2.56	22.11	22.12	22.37	22.73	28.36	30.00	30.92	36.00
5825MHz	Pass	2.56	22.36	22.35	22.45	22.78	28.51	30.00	31.07	36.00
802.11be EHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	2.39	18.1	18.42	18.15	18.42	24.30	30.00	26.69	36.00
5230MHz	Pass	2.39	20.11	20.56	20.24	20.38	26.35	30.00	28.74	36.00
5270MHz	Pass	2.78	17.78	17.54	17.31	17.65	23.59	24.00	26.37	30.00
5310MHz	Pass	2.78	17.73	17.27	17.46	17.75	23.58	24.00	26.36	30.00
5510MHz	Pass	2.52	17.49	17.42	17.77	17.72	23.62	24.00	26.14	30.00
5590MHz	Pass	2.52	17.79	17.62	17.78	17.85	23.78	24.00	26.30	30.00
5670MHz	Pass	2.52	17.46	17.15	17.63	17.82	23.54	24.00	26.06	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	2.52	17.41	17.13	17.64	17.87	23.54	24.00	26.06	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	2.56	8.36	8.06	8.62	8.83	14.50	30.00	17.06	36.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5755MHz	Pass	2.56	20.96	21.76	21.51	21.97	27.59	30.00	30.15	36.00
5795MHz	Pass	2.56	21.16	21.93	21.37	22.04	27.66	30.00	30.22	36.00
802.11be EHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	2.39	17.49	17.75	17.64	17.86	23.71	30.00	26.10	36.00
5290MHz	Pass	2.78	17.31	17.48	17.85	17.94	23.67	24.00	26.45	30.00
5530MHz	Pass	2.52	16.54	17.01	17.37	17.67	23.19	24.00	25.71	30.00
5610MHz	Pass	2.52	17.82	17.31	17.63	17.79	23.66	24.00	26.18	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	2.52	17.8	17.41	18.02	18.18	23.88	24.00	26.40	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	2.56	5.26	5.09	5.51	5.83	11.45	30.00	14.01	36.00
5775MHz	Pass	2.56	19.02	19.45	19.35	19.77	25.43	30.00	27.99	36.00
802.11be EHT160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	2.39	12.38	12.11	11.98	11.72	18.07	30.00	20.46	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	2.78	12.29	12.04	12.2	12.04	18.16	24.00	20.94	30.00
5570MHz	Pass	2.52	14.62	14.35	14.83	14.57	20.62	24.00	23.14	30.00
be240_240MHz_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5610MHz Straddle 5.47-5.725GHz	Pass	2.52	12.04	11.57	11.77	12.13	17.90	24.00	20.42	30.00
5610MHz Straddle 5.725-5.85GHz	Pass	2.56	-5.46	-5.38	-5.09	-4.84	0.84	30.00	3.40	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	1.56	1.78	2.3	0.63
2	3.1	3.19	2.26	2.74
3	2.67	2.61	3.25	2.8
4	2.62	3.19	2.69	2.69
5	0.70	1.24	1.65	0.40
6	2.75	3.2	2.71	3.77
Directional Gain	3.1	3.2	3.25	3.77

Note 1: Directional Gain = Max gain of all antennas

Directional Gain for 802.11be

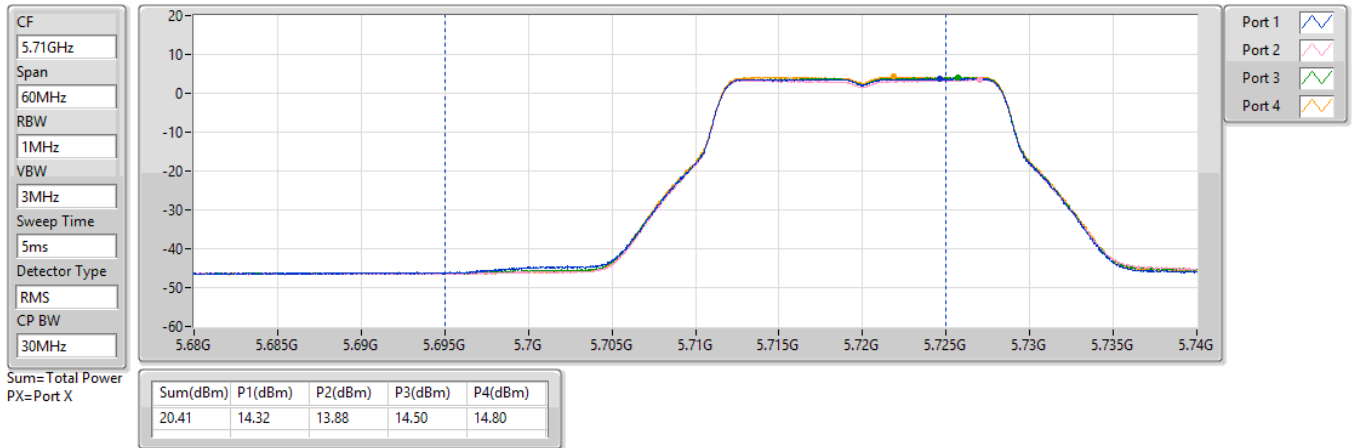
Antenna	Antenna Gain (dBi)			
	5150 ~ 5250 MHz	5250 ~ 5350 MHz	5470 ~ 5725 MHz	5725 ~ 5850 MHz
1	1.56	1.78	2.3	0.63
2	3.1	3.19	2.26	2.74
3	2.67	2.61	3.25	2.8
4	2.62	3.19	2.69	2.69
5	0.70	1.24	1.65	0.40
6	2.75	3.2	2.71	3.77
Directional Gain (Antenna 1/3/5/6)	2.00	2.27	2.52	2.14
Directional Gain** (Antenna 2/4/5/6)	2.39	2.78	2.35	2.56
Max Directional Gain	2.39	2.78	2.52	2.56

Note 1: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{Gn/10})/N_{ANT}]$

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

AV Power

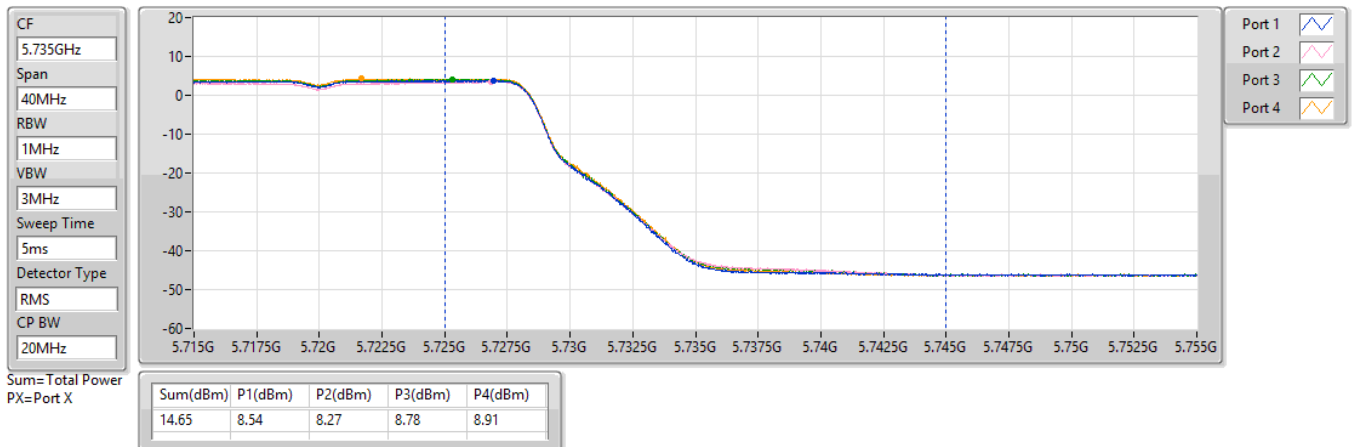
5720MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

AV Power

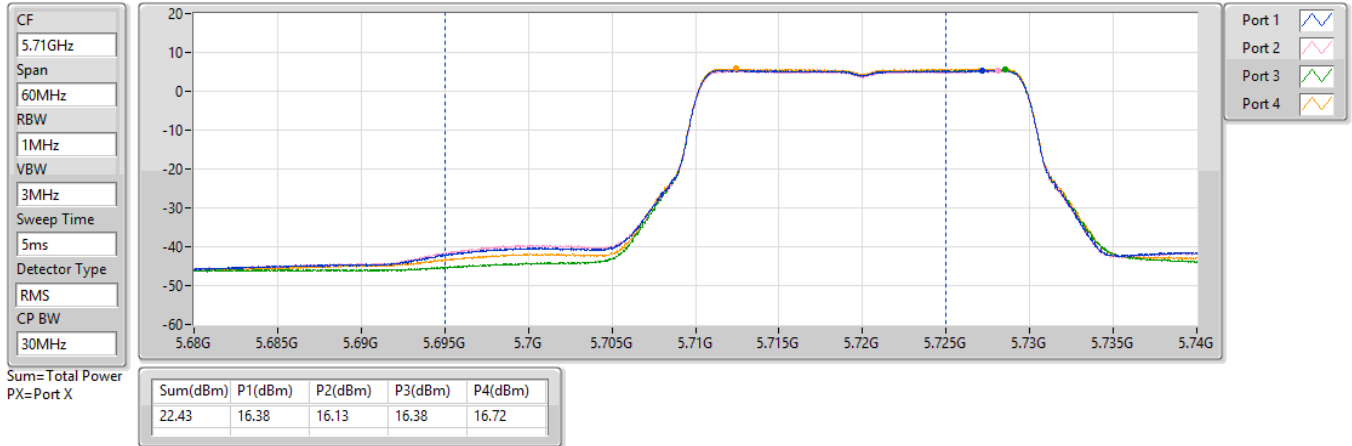
5720MHz Straddle 5.725-5.85GHz_TX



5.47-5.725GHz_802.11be EHT20_Nss4,(MCS0)_4TX

AV Power

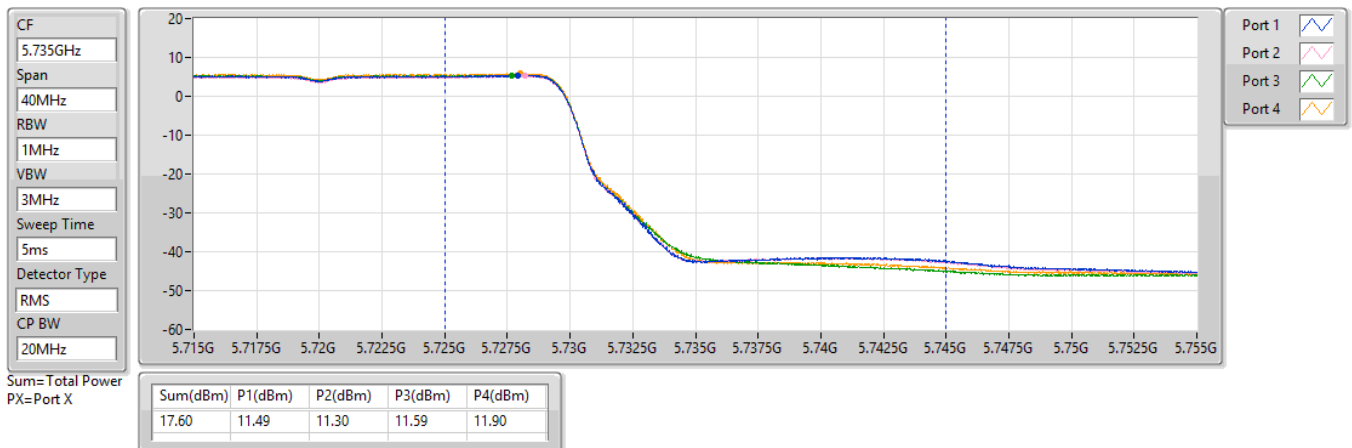
5720MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_802.11be EHT20_Nss4,(MCS0)_4TX

AV Power

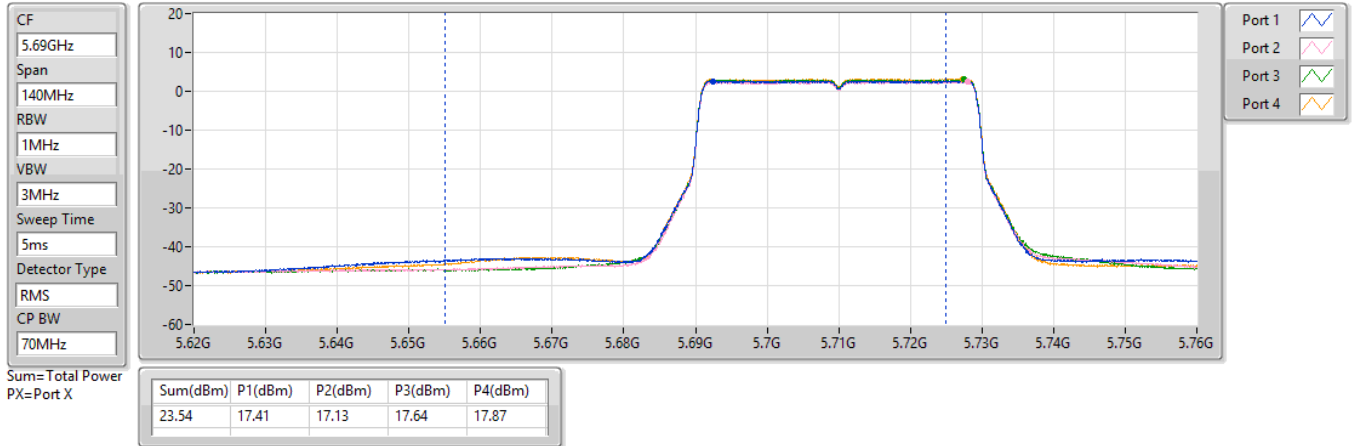
5720MHz Straddle 5.725-5.85GHz_TX



5.47-5.725GHz_802.11be EHT40_Nss4,(MCS0)_4TX

AV Power

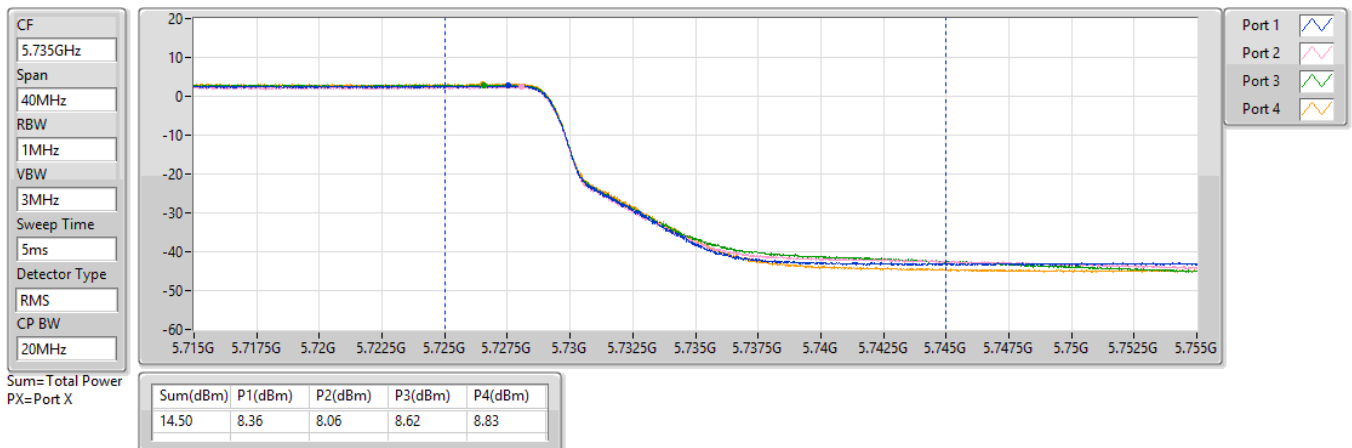
5710MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_802.11be EHT40_Nss4,(MCS0)_4TX

AV Power

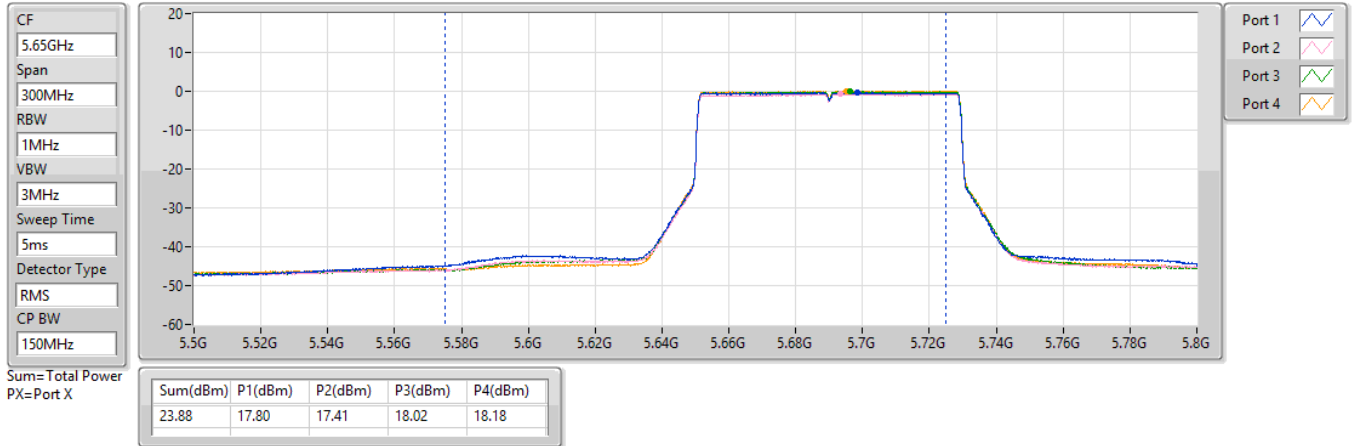
5710MHz Straddle 5.725-5.85GHz_TX



5.47-5.725GHz_802.11be EHT80_Nss4,(MCS0)_4TX

AV Power

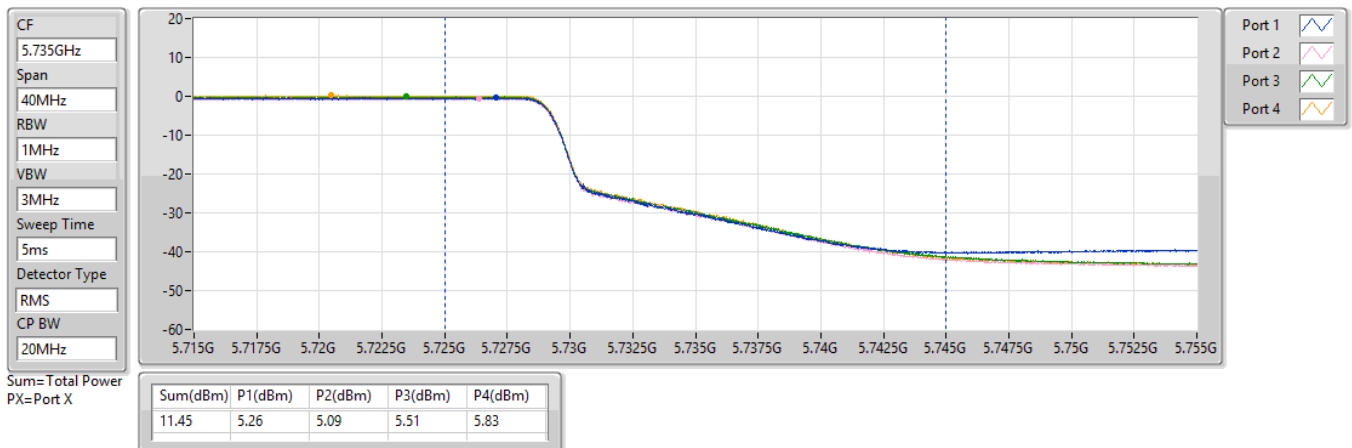
5690MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_802.11be EHT80_Nss4,(MCS0)_4TX

AV Power

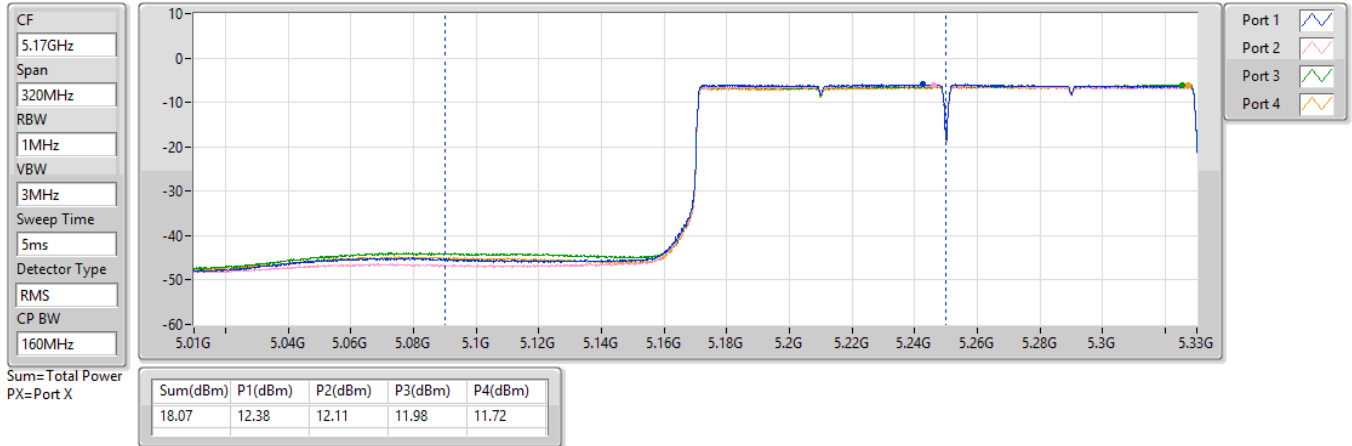
5690MHz Straddle 5.725-5.85GHz_TX



5.15-5.25GHz_802.11be EHT160_Nss4,(MCS0)_4TX

AV Power

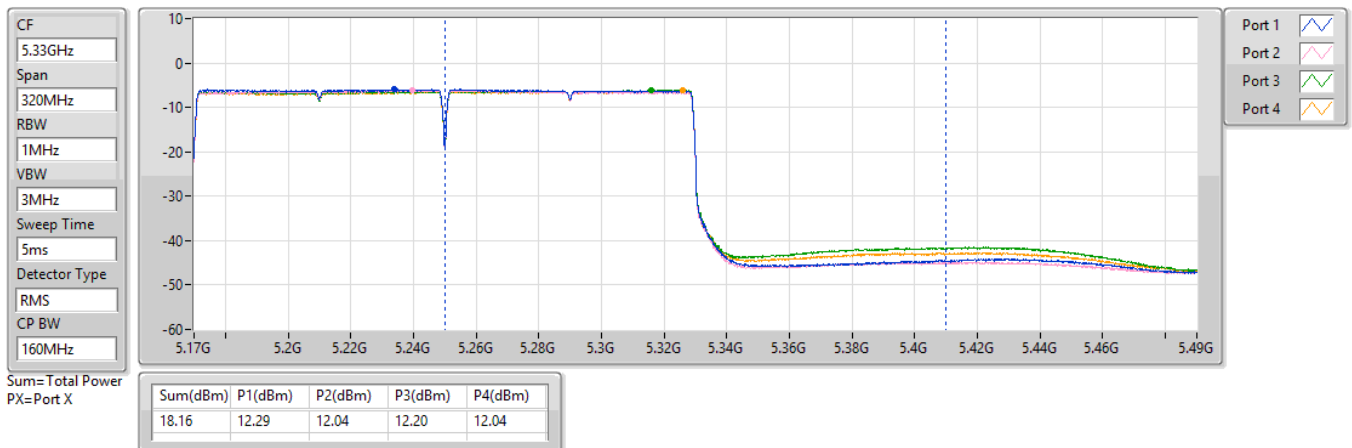
5250MHz Straddle 5.15-5.25GHz_TX



5.25-5.35GHz_802.11be EHT160_Nss4,(MCS0)_4TX

AV Power

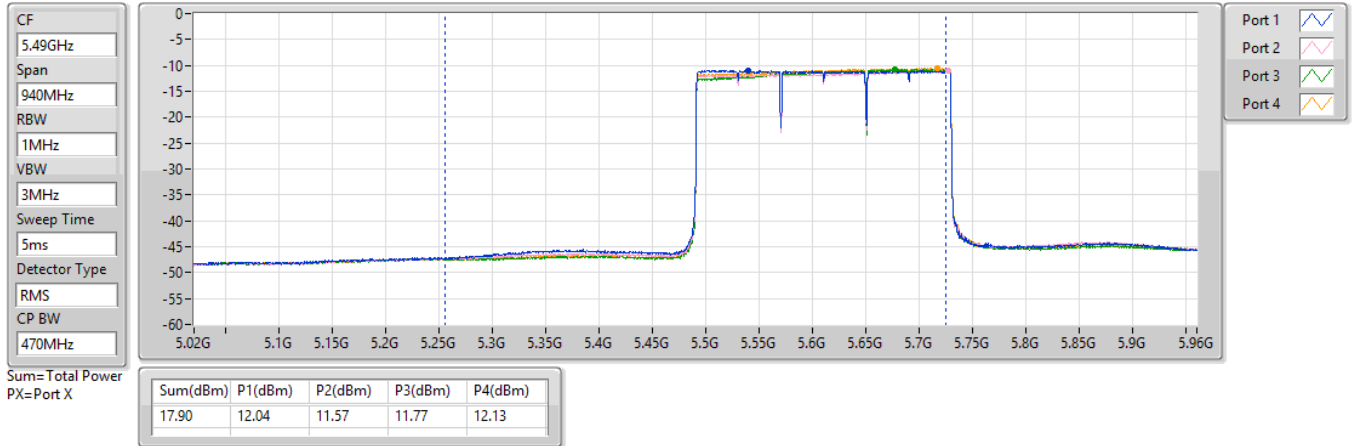
5250MHz Straddle 5.25-5.35GHz_TX



5.47-5.725GHz_be240_240MHz_Nss4,(MCS0)_4TX

AV Power

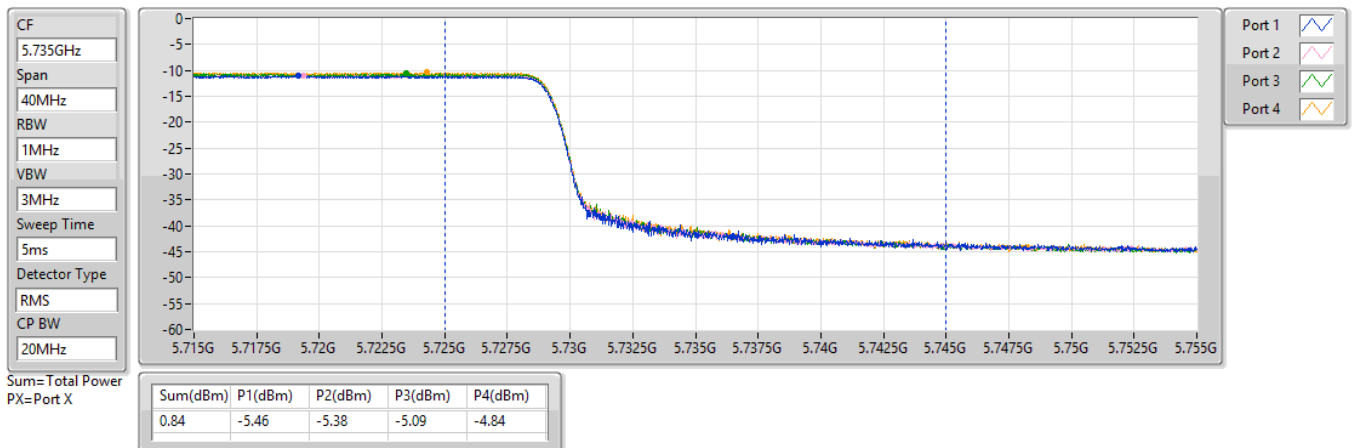
5610MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_be240_240MHz_Nss4,(MCS0)_4TX

AV Power

5610MHz Straddle 5.725-5.85GHz_TX



Beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11be EHT20-BF_Nss4,(MCS0)_4TX	21.96	0.15704	24.35	0.27227
802.11be EHT40-BF_Nss4,(MCS0)_4TX	20.33	0.10789	22.72	0.18707
802.11be EHT80-BF_Nss4,(MCS0)_4TX	17.69	0.05875	20.08	0.10186
802.11be EHT160-BF_Nss4,(MCS0)_4TX	12.05	0.01603	14.44	0.02780
5.25-5.35GHz	-	-	-	-
802.11be EHT20-BF_Nss4,(MCS0)_4TX	17.64	0.05808	20.42	0.11015
802.11be EHT40-BF_Nss4,(MCS0)_4TX	17.57	0.05715	20.35	0.10839
802.11be EHT80-BF_Nss4,(MCS0)_4TX	17.65	0.05821	20.43	0.11041
802.11be EHT160-BF_Nss4,(MCS0)_4TX	12.14	0.01637	14.92	0.03105
5.47-5.725GHz	-	-	-	-
802.11be EHT20-BF_Nss4,(MCS0)_4TX	17.57	0.05715	20.09	0.10209
802.11be EHT40-BF_Nss4,(MCS0)_4TX	17.76	0.05970	20.28	0.10666
802.11be EHT80-BF_Nss4,(MCS0)_4TX	17.86	0.06109	20.38	0.10914
802.11be EHT160-BF_Nss4,(MCS0)_4TX	14.60	0.02884	17.12	0.05152
be240,BF_240MHz_Nss4,(MCS0)_4TX	11.88	0.01542	14.40	0.02754
5.725-5.85GHz	-	-	-	-
802.11be EHT20-BF_Nss4,(MCS0)_4TX	22.49	0.17742	25.05	0.31989
802.11be EHT40-BF_Nss4,(MCS0)_4TX	21.64	0.14588	24.20	0.26303
802.11be EHT80-BF_Nss4,(MCS0)_4TX	19.41	0.08730	21.97	0.15740
be240,BF_240MHz_Nss4,(MCS0)_4TX	-5.18	0.00030	-2.62	0.00055

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11be EHT20-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	2.39	12.84	12.89	12.57	12.92	18.83	30.00	21.22	36.00
5200MHz	Pass	2.39	14.14	14.59	14.27	14.46	20.39	30.00	22.78	36.00
5240MHz	Pass	2.39	16.14	16.06	15.64	15.9	21.96	30.00	24.35	36.00
5260MHz	Pass	2.78	11.86	11.62	11.16	11.77	17.63	24.00	20.41	30.00
5300MHz	Pass	2.78	11.8	11.43	11.41	11.83	17.64	24.00	20.42	30.00
5320MHz	Pass	2.78	11.53	11.37	11.7	11.84	17.63	24.00	20.41	30.00
5500MHz	Pass	2.52	11.43	11.1	11.6	11.8	17.51	24.00	20.03	30.00
5580MHz	Pass	2.52	11.61	11.35	11.54	11.7	17.57	24.00	20.09	30.00
5700MHz	Pass	2.52	11.41	11.13	11.54	11.84	17.51	24.00	20.03	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.52	10.36	10.11	10.36	10.7	16.41	23.11	18.93	29.11
5720MHz Straddle 5.725-5.85GHz	Pass	2.56	5.47	5.28	5.57	5.88	11.58	30.00	14.14	36.00
5745MHz	Pass	2.56	16.24	16.09	16.49	16.72	22.41	30.00	24.97	36.00
5785MHz	Pass	2.56	16.09	16.1	16.35	16.71	22.34	30.00	24.90	36.00
5825MHz	Pass	2.56	16.34	16.33	16.43	16.76	22.49	30.00	25.05	36.00
802.11be EHT40-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	2.39	12.08	12.4	12.13	12.4	18.28	30.00	20.67	36.00
5230MHz	Pass	2.39	14.09	14.54	14.22	14.36	20.33	30.00	22.72	36.00
5270MHz	Pass	2.78	11.76	11.52	11.29	11.63	17.57	24.00	20.35	30.00
5310MHz	Pass	2.78	11.71	11.25	11.44	11.73	17.56	24.00	20.34	30.00
5510MHz	Pass	2.52	11.47	11.4	11.75	11.7	17.60	24.00	20.12	30.00
5590MHz	Pass	2.52	11.77	11.6	11.76	11.83	17.76	24.00	20.28	30.00
5670MHz	Pass	2.52	11.44	11.13	11.61	11.8	17.52	24.00	20.04	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	2.52	11.39	11.11	11.62	11.85	17.52	24.00	20.04	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	2.56	2.34	2.04	2.6	2.81	8.48	30.00	11.04	36.00
5755MHz	Pass	2.56	14.94	15.74	15.49	15.95	21.57	30.00	24.13	36.00
5795MHz	Pass	2.56	15.14	15.91	15.35	16.02	21.64	30.00	24.20	36.00
802.11be EHT80-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	2.39	11.47	11.73	11.62	11.84	17.69	30.00	20.08	36.00
5290MHz	Pass	2.78	11.29	11.46	11.83	11.92	17.65	24.00	20.43	30.00
5530MHz	Pass	2.52	10.52	10.99	11.35	11.65	17.17	24.00	19.69	30.00
5610MHz	Pass	2.52	11.8	11.29	11.61	11.77	17.64	24.00	20.16	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	2.52	11.78	11.39	12	12.16	17.86	24.00	20.38	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	2.56	-0.76	-0.93	-0.51	-0.19	5.43	30.00	7.99	36.00
5775MHz	Pass	2.56	13	13.43	13.33	13.75	19.41	30.00	21.97	36.00
802.11be EHT160-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	2.39	6.36	6.09	5.96	5.7	12.05	30.00	14.44	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	2.78	6.27	6.02	6.18	6.02	12.14	24.00	14.92	30.00
5570MHz	Pass	2.52	8.6	8.33	8.81	8.55	14.60	24.00	17.12	30.00