

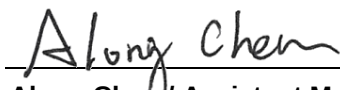
FCC Test Report

FCC ID : MXF-XR1710G
Equipment : Wi-Fi 7 Router
Model No. : XR1710G
Brand Name : Brightspeed
Applicant : Gemtek Technology Co., Ltd.
Address : No. 15-1 Zhonghua Road, Hsinchu Industrial Park,
Hukou, Hsinchu, Taiwan, 30352.
Standard : 47 CFR FCC Part 15.407
Received Date : Jan. 10, 2024
Tested Date : Jan. 11 ~ Feb. 26, 2024

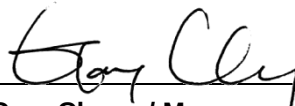
We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the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

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR411201AN	Rev. 01	Initial issue	Apr. 02, 2024

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.491MHz 39.70 (Margin -6.44dB) - 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: 28.45 5725-5850MHz: 29.84 Beamforming mode 5150-5250MHz: 28.26 5725-5850MHz: 28.98	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 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 5725-5850	a	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4	6-54 Mbps
5150-5250 5725-5850	n (HT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4	MCS 0-31
5150-5250 5725-5850	n (HT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	4	MCS 0-31
5150-5250 5725-5850	ac (VHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4	MCS 0-9
5150-5250 5725-5850	ac (VHT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	4	MCS 0-9
5150-5250 5725-5850	ac (VHT80)	5210 5775	42 [1] 155 [1]	4	MCS 0-9
5150-5250 5725-5850	ax (HE20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4	MCS 0-11
5150-5250 5725-5850	ax (HE40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	4	MCS 0-11
5150-5250 5725-5850	ax (HE80)	5210 5775	42 [1] 155 [1]	4	MCS 0-11
5150-5250 5725-5850	be (EHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	4	MCS 0-13
5150-5250 5725-5850	be (EHT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	4	MCS 0-13
5150-5250 5725-5850	be (EHT80)	5210 5775	42 [1] 155 [1]	4	MCS 0-13
Note 1: OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM and 4096QAM modulation.					
Note 2: 802.11n/ac/ax/be supports beamforming function.					

1.1.2 Antenna Details

Ant. No.	Brand / Model	Type	Connector	Operating Frequencies (MHz) / Gain (dBi)		
				2400~2483.5	5150~5250	5725~5850
1	Gemtek / XR1710G_Dual_Ant1	PIFA	UFL	1.02	3.3	2.89
2	Gemtek / XR1710G_Dual_Ant2	PIFA	UFL	1.03	3.75	2.09
3	Gemtek / XR1710G_Dual_Ant3	PIFA	UFL	1.18	4.57	3.78
4	Gemtek / XR1710G_Dual_Ant4	PIFA	UFL	2.01	4.87	4.99

1.1.3 Configuration of Equipment under Test (EUT)

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

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: LUCENT TRANS ELECTRONICS CO., LTD. Model: 1A98-LJHL I/P: 100-120V~ 1.6A, 50-60Hz O/P: 12.0V=5.0A, 60.0W Power Line: 1.8m non-shielded without core
2	AC adapter	Brand: LEI Model: ML60-4120500-A1 I/P: 120V~ 60Hz, 1.5A O/P: 12.0V= 5.0A Power Line: 1.8m non-shielded without core
3	Fan (Vendor 1)	Brand: SUNON Model: MF70151V1-1C010-S99
4	Fan (Vendor 2)	Brand: Yingfan Model: DB701512HMS4B01F43
5	X'FMR (Vendor 1)	Brand: QUICTRON Model: KM24SG0A1G
6	X'FMR (Vendor 2)	Brand: U&T Model: UTTG24P05
7	RJ45 (Vendor 1)	Brand: Tung Li 1.8m non-shielded without core
8	RJ45 (Vendor 2)	Brand: RAPID CONN 1.8m non-shielded without core

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	151	5755
48	5240	159	5795
149	5745	802.11ac VHT80 / ax HE80 / be EHT80	
153	5765	42	5210
157	5785	155	5775
161	5805	-	-
165	5825	-	-

1.1.6 Test Tool and Duty Cycle

Test Tool	QATool, version: 0.0.2.99		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	99.48%	0.02
	be EHT20-OFDMA	99.28%	0.03
	be EHT40-OFDMA	98.25%	0.08
	be EHT80-OFDMA	95.63%	0.19

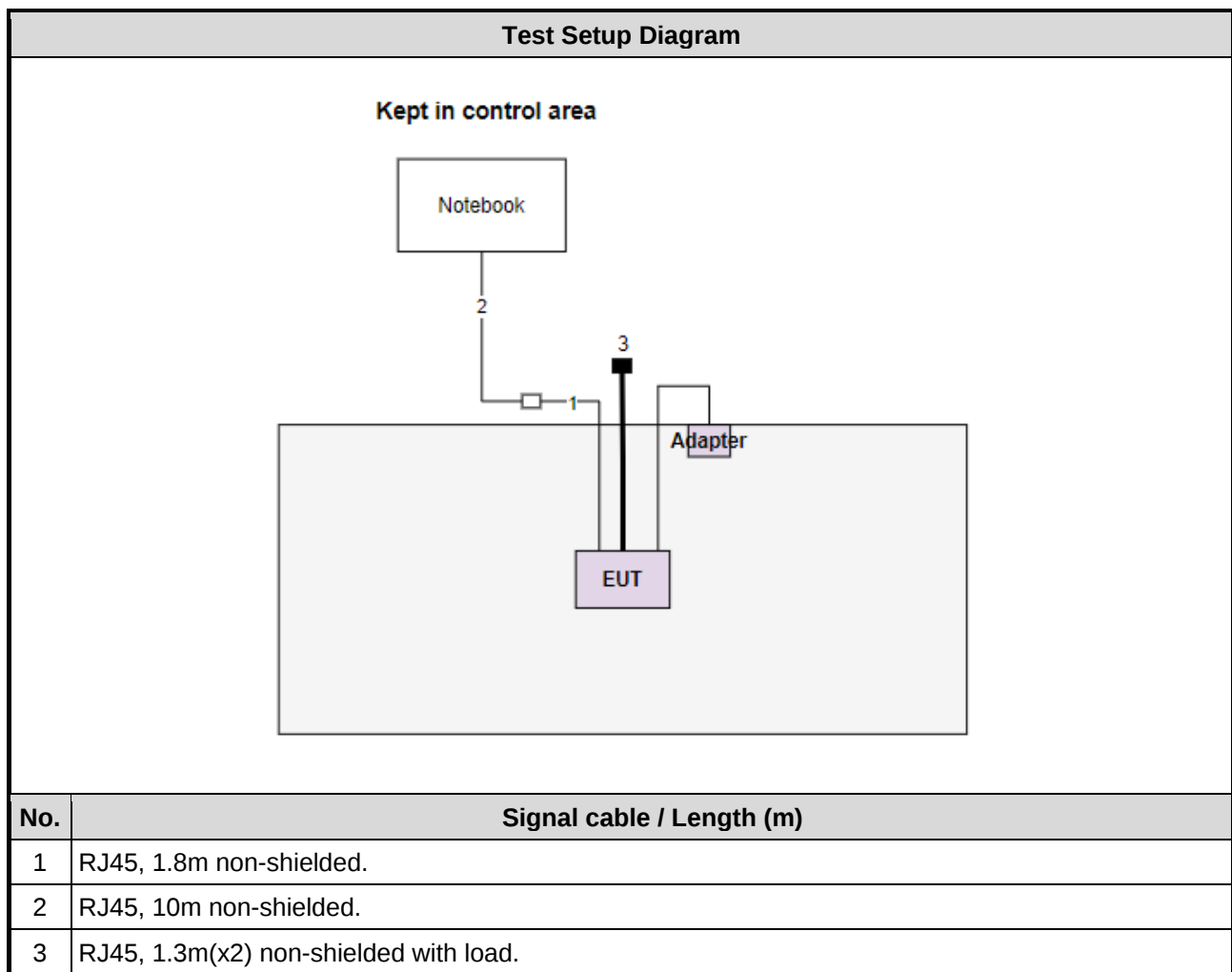
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-Beamforming	Beamforming
11a	5180	21.5	---
11a	5200	21.5	---
11a	5240	21.5	---
11a	5745	22.5	---
11a	5785	22.5	---
11a	5825	23	---
be EHT20-OFDMA	5180	21	41
be EHT20-OFDMA	5200	21.5	43
be EHT20-OFDMA	5240	22	43
be EHT20-OFDMA	5745	22.5	42
be EHT20-OFDMA	5785	22.5	43
be EHT20-OFDMA	5825	23	44
be EHT40-OFDMA	5190	19.5	38
be EHT40-OFDMA	5230	22	44
be EHT40-OFDMA	5755	22.5	44
be EHT40-OFDMA	5795	22.5	44
be EHT80-OFDMA	5210	18.5	37
be EHT80-OFDMA	5775	21	42

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude 5400	DoC	---
2	Notebook	DELL	Latitude E5470	DoC	---
3	RJ45 Load	ICC	---	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Feb. 22, 2024				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 03, 2023	Mar. 02, 2024
LISN	R&S	ENV216	101579	May 09, 2023	May 08, 2024
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Feb. 24, 2023	Feb. 23, 2024
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 11, 2023	Oct. 10, 2024
50 ohm terminal	NA	50	03	Aug. 08, 2023	Aug. 07, 2024
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jan. 11 ~ Jan. 25, 2024				
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	101498	Nov. 23, 2023	Nov. 22, 2024
Loop Antenna	R&S	HFH2-Z2	100330	Oct. 31, 2023	Oct. 30, 2024
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 31, 2023	Jul. 30, 2024
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 27, 2023	Nov. 26, 2024
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 30, 2023	Oct. 29, 2024
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2023	Jun. 27, 2024
Preamplifier	EMC	EMC118A45SE	980898	Jul. 14, 2023	Jul. 13, 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 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 03, 2023	Oct. 02, 2024
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 03, 2023	Oct. 02, 2024
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 03, 2023	Oct. 02, 2024
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 03, 2023	Oct. 02, 2024
RF Cable	EMC	EMC104-35M-35M- 3000	210922	Oct. 03, 2023	Oct. 02, 2024
HIGHPASS FILTER 7-18G	K&L	11SH10-7000/T1800 0-O/OP	18	Oct. 05, 2023	Oct. 04, 2024
Attenuator	Pasternack	PE7005-10	10-1	Oct. 05, 2023	Oct. 04, 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	Jan. 29 ~ Feb. 26, 2024				
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
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
Attenuator	Pasternack	PE7005-10	10-2	Oct. 05, 2023	Oct. 04, 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	± 3.41 dB
Unwanted Emission > 1 GHz	± 4.59 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, 03CH01-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.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

The EUT have 4 SKUs options that listed as table below:

SKU 1	Fan (Yingfan) / LAN X'FMR (QUICTRON)
SKU 2	Fan (Yingfan) / LAN X'FMR (U&T)
SKU 3	Fan (SUNON) / LAN X'FMR (QUICTRON)
SKU 4	Fan (SUNON) / LAN X'FMR (U&T)

Note: SKU 2 was the worst case for final test.

For Frequency band 5150-5250 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
Unwanted Emissions ≤1GHz	be EHT40-OFDMA	5230	MCS 0	---
Unwanted Emissions ≤1GHz	be EHT40-OFDMA	5230	MCS 0	---
Unwanted Emissions >1GHz	11a	5180 / 5200 / 5240	6 Mbps	---
Conducted Output Power	be EHT20-OFDMA	5180 / 5200 / 5240	MCS 0	
Emission Bandwidth	be EHT40-OFDMA	5190 / 5230	MCS 0	
Power Spectral Density	be EHT80-OFDMA	5210	MCS 0	
Frequency Stability	Un-modulation	5200	---	---
Beamforming mode				
Conducted Output Power	be EHT20-OFDMA be EHT40-OFDMA be EHT80-OFDMA	5180 / 5200 / 5240 5190 / 5230 5210	MCS 0 MCS 0 MCS 0	---
For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
AC Power Line Conducted Emission	be EHT40-OFDMA	5755	MCS	---
Unwanted Emissions ≤1GHz	be EHT40-OFDMA	5755	MCS	---
Unwanted Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	---
Conducted Output Power	be EHT20-OFDMA	5745 / 5785 / 5825	MCS 0	
Emission Bandwidth	be EHT40-OFDMA	5755 / 5795	MCS 0	
Power Spectral Density	be EHT80-OFDMA	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	---
Beamforming mode				
Conducted Output Power	be EHT20-OFDMA be EHT40-OFDMA be EHT80-OFDMA	5745 / 5785 / 5825 5755 / 5795 5775	MCS 0 MCS 0 MCS 0	---
NOTE:				
- 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. - Two adapters (LUCENT & LEI) had been covered during the pretest and found that LUCENT adapter was the worst case for radiated emission test and LEI adapter was the worst case for conducted emission test. - Two RJ45 cables (Tung Li & RAPID CONN) had been covered during the pretest and found that Tung Li RJ45 cable was the worst case and was selected for final testing. - Non-beamforming and beamforming mode had been covered during the pretest. The worst mode is Non-beamforming thus Non-beamforming is tested for all test items.				

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.

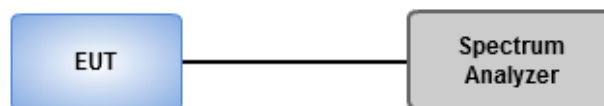
Occupied Bandwidth

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	23-24°C / 62-63%	Tested By	Brad Wu
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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
☐	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
☒ 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.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	23-24°C / 62-63%	Tested By	Brad Wu
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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
☒	5725 ~ 5850	30 dBm /500 kHz

3.3.2 Test Procedures

For 5150 ~ 5250 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

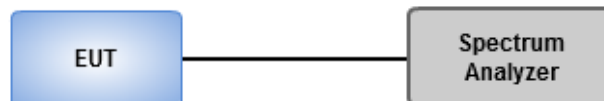
Duty cycle $\geq 98\%$

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	23-24°C / 62-63%	Tested By	Brad Wu
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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]
5.725 - 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

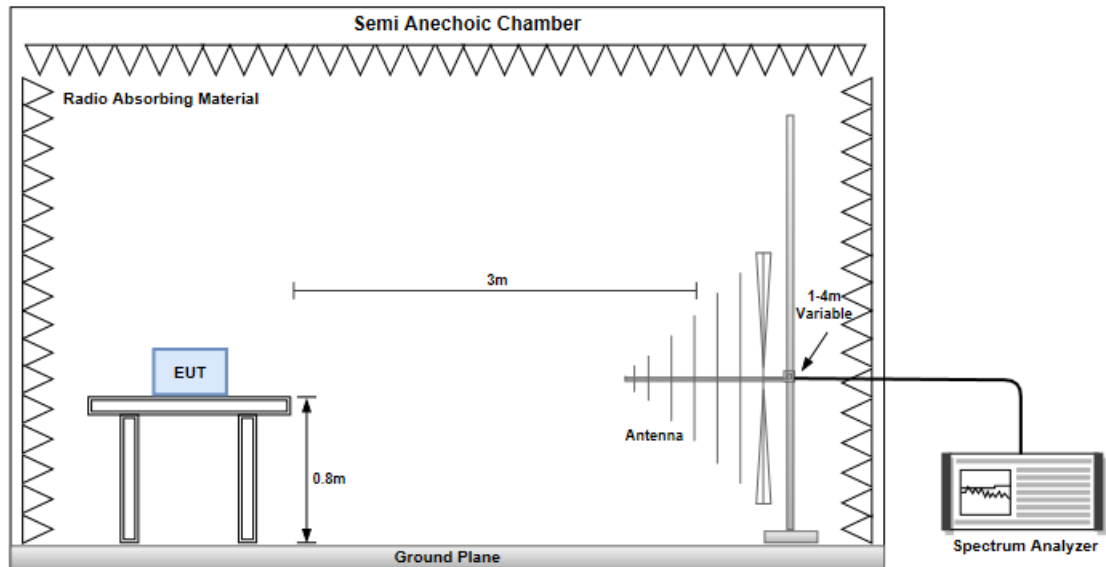
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

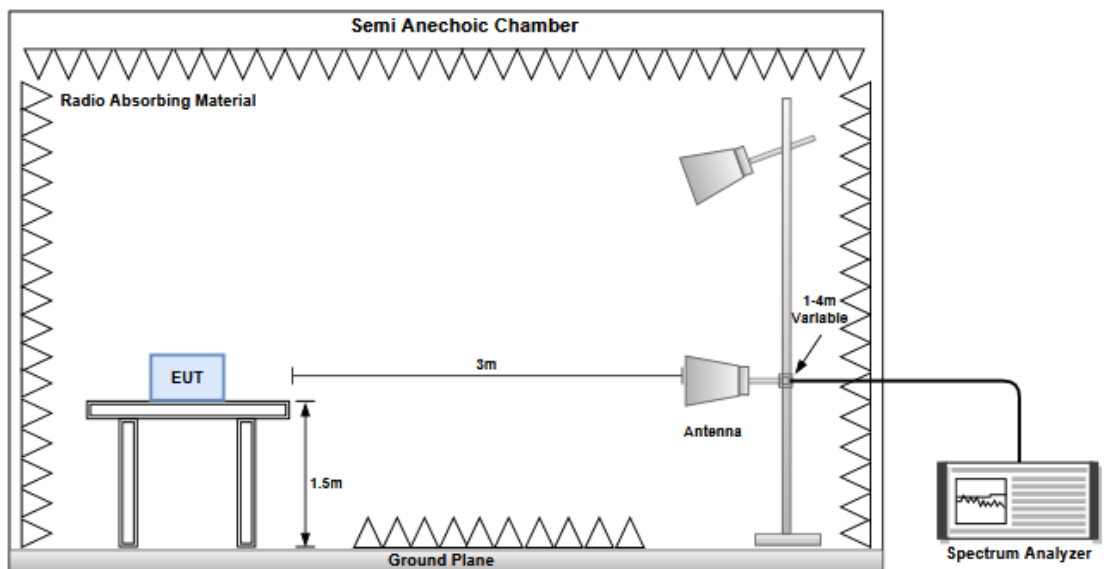
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

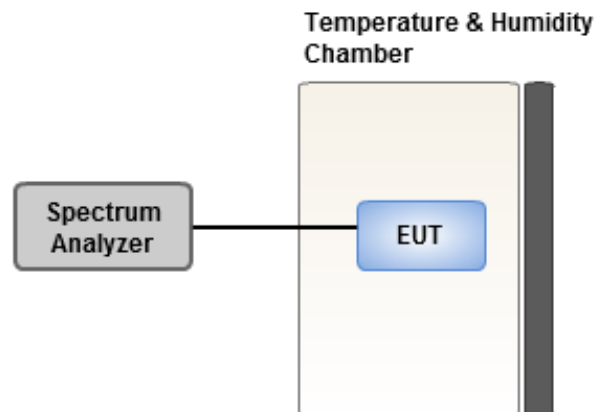
3.5.1 Limit of Frequency Stability

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	23-24°C / 62-63%	Tested By	Brad Wu
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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

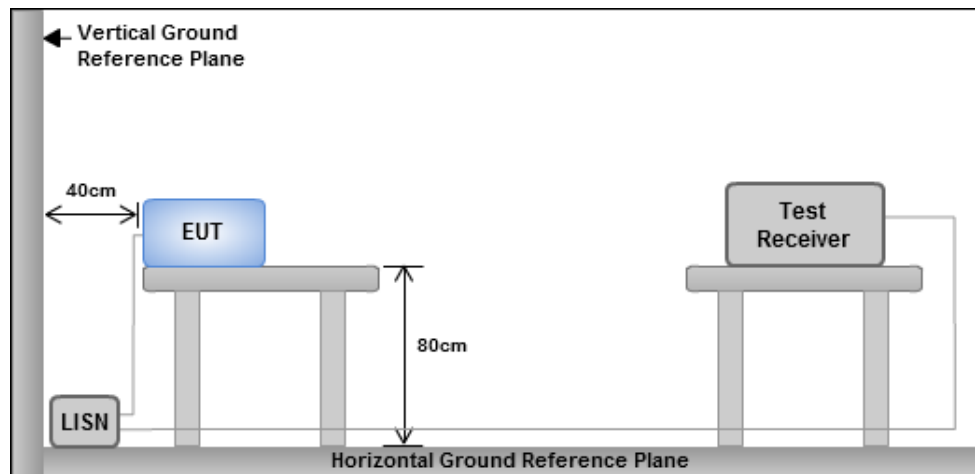
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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)_4TX	26.004M	16.439M	16M4D1D	18.348M	16.342M
802.11be EHT20_Nss1,(MCS0)_4TX-OFDMA	23.298M	18.891M	18M9D1D	19.8M	18.831M
802.11be EHT40_Nss1,(MCS0)_4TX-OFDMA	39.468M	37.587M	37M6D1D	39.072M	37.421M
802.11be EHT80_Nss1,(MCS0)_4TX-OFDMA	80.784M	76.663M	76M7D1D	79.992M	76.613M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.302M	22.429M	22M4D1D	14.322M	16.623M
802.11be EHT20_Nss1,(MCS0)_4TX-OFDMA	18.876M	23.388M	23M4D1D	17.952M	19.13M
802.11be EHT40_Nss1,(MCS0)_4TX-OFDMA	35.244M	45.037M	45M0D1D	32.34M	37.901M
802.11be EHT80_Nss1,(MCS0)_4TX-OFDMA	73.656M	77.481M	77M5D1D	69.168M	77.241M

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	21.45M	16.386M	25.278M	16.439M	21.714M	16.386M	21.78M	16.386M
5200MHz	Pass	Inf	25.344M	16.386M	26.004M	16.413M	21.318M	16.386M	21.384M	16.36M
5240MHz	Pass	Inf	18.678M	16.355M	21.714M	16.416M	21.648M	16.342M	18.348M	16.345M
5745MHz	Pass	500k	16.302M	16.92M	14.322M	16.623M	16.302M	18.292M	16.236M	17.061M
5785MHz	Pass	500k	16.302M	17.072M	16.302M	18.655M	16.302M	20.766M	16.302M	21.954M
5825MHz	Pass	500k	15.708M	20.028M	15.972M	22.429M	16.236M	21.769M	15.906M	19.473M
802.11be EHT20_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.196M	18.861M	20.262M	18.861M	19.8M	18.831M	19.866M	18.861M
5200MHz	Pass	Inf	19.8M	18.861M	23.298M	18.891M	19.866M	18.861M	20.196M	18.861M
5240MHz	Pass	Inf	19.8M	18.845M	19.998M	18.869M	19.866M	18.852M	19.8M	18.846M
5745MHz	Pass	500k	18.612M	19.13M	18.48M	19.28M	18.348M	20.51M	18.876M	19.25M
5785MHz	Pass	500k	18.744M	19.16M	17.952M	19.67M	18.348M	20.66M	18.546M	23.058M
5825MHz	Pass	500k	18.348M	20.45M	18.348M	23.388M	18.414M	22.729M	18.414M	20.33M
802.11be EHT40_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.072M	37.421M	39.204M	37.481M	39.072M	37.421M	39.204M	37.421M
5230MHz	Pass	Inf	39.468M	37.554M	39.204M	37.587M	39.204M	37.521M	39.072M	37.447M
5755MHz	Pass	500k	34.056M	37.901M	32.34M	38.201M	34.848M	38.981M	32.472M	38.381M
5795MHz	Pass	500k	33M	38.141M	35.244M	38.321M	34.98M	41.079M	35.112M	45.037M
802.11be EHT80_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	79.992M	76.621M	80.256M	76.613M	80.784M	76.663M	79.992M	76.652M
5775MHz	Pass	500k	73.392M	77.241M	73.656M	77.241M	69.168M	77.481M	73.656M	77.481M

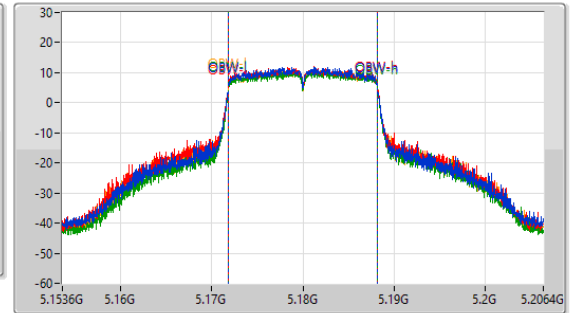
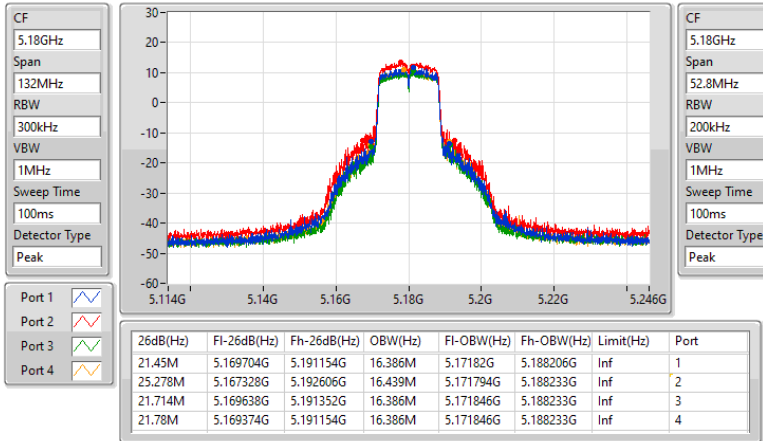
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth

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

EBW

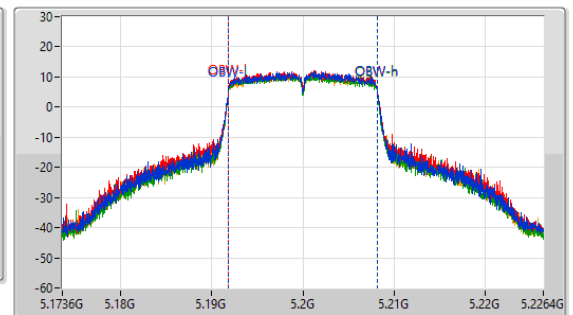
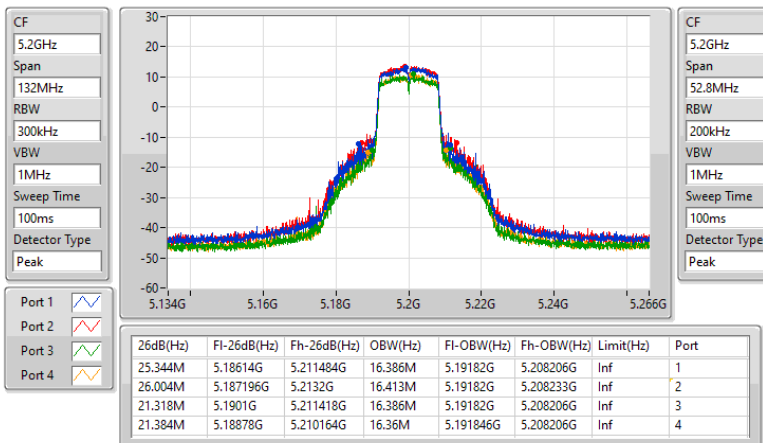
5180MHz



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

EBW

5200MHz

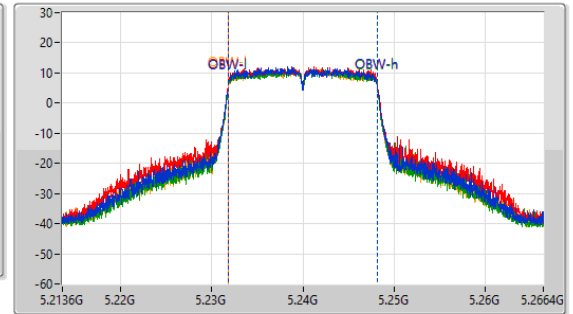
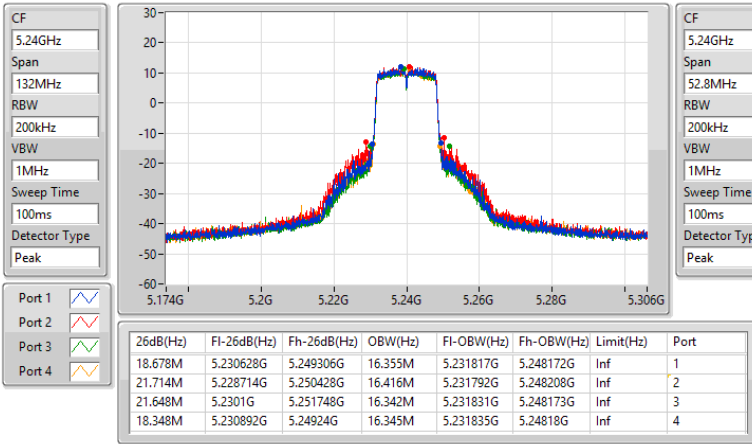




5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

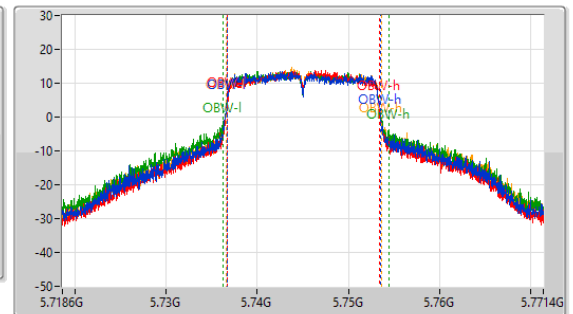
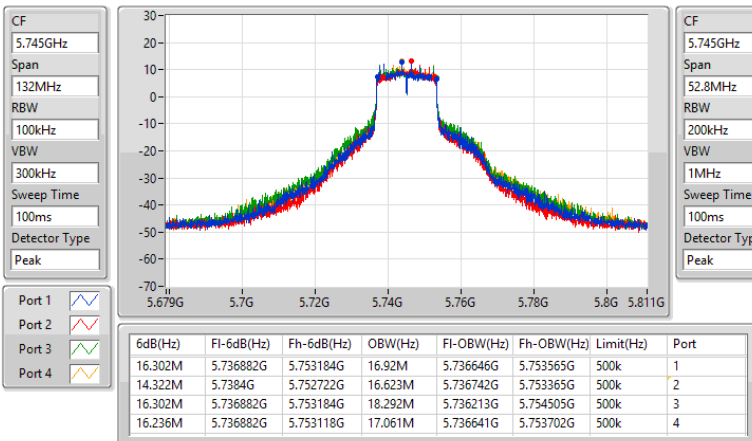
5240MHz



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

EBW

5745MHz





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

EBW

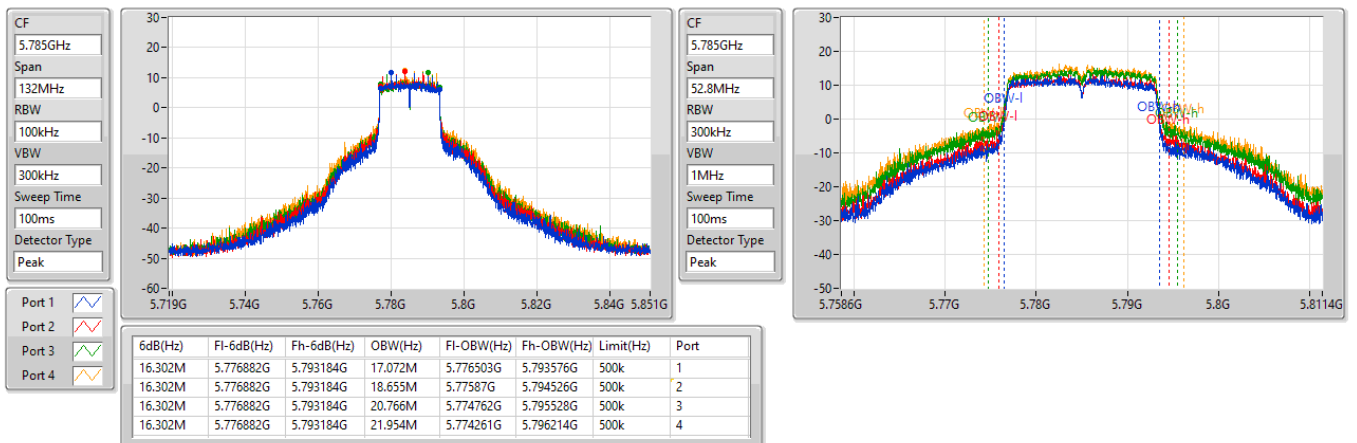
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5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

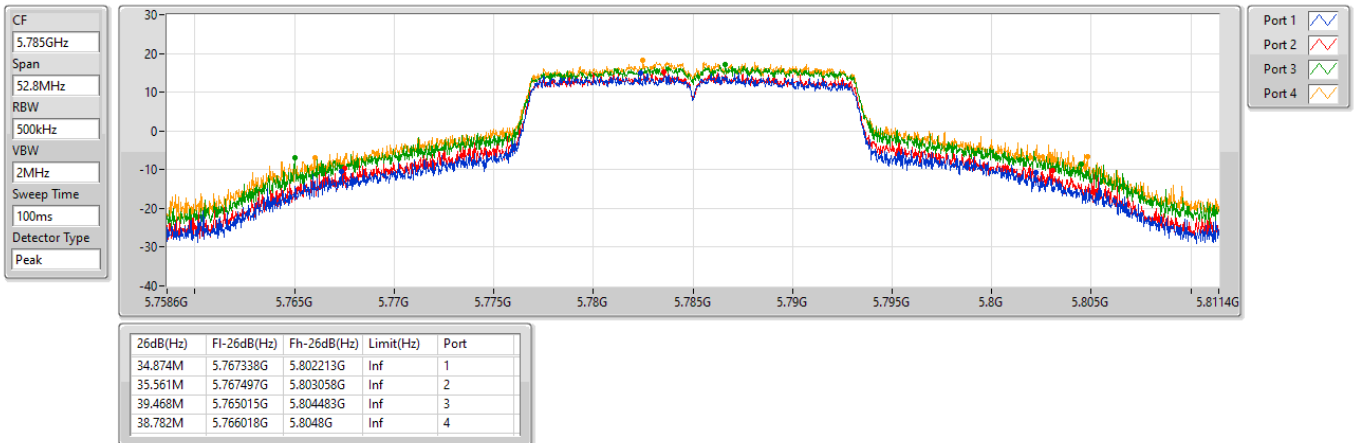
5785MHz



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

EBW

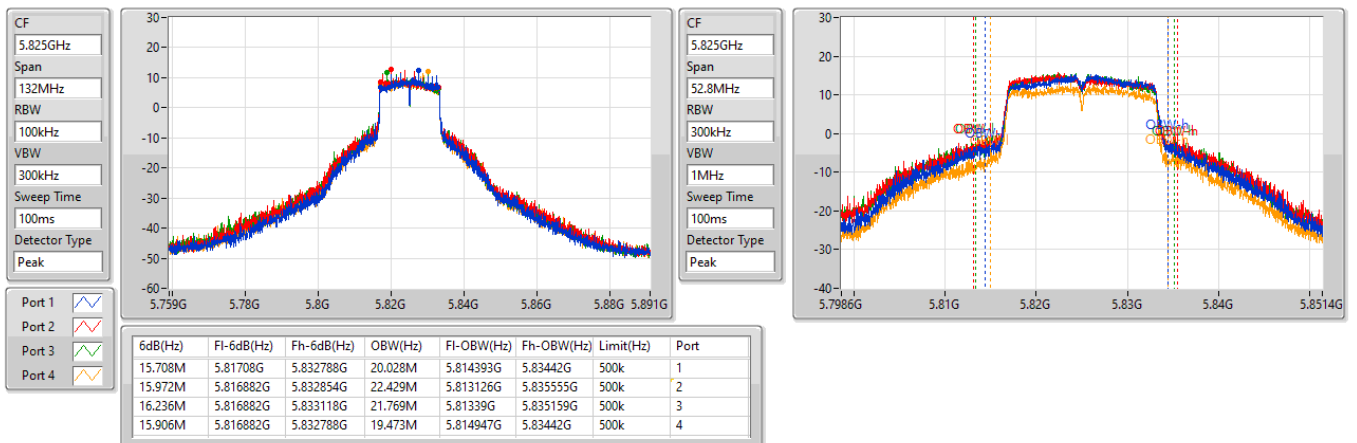
5785MHz



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

EBW

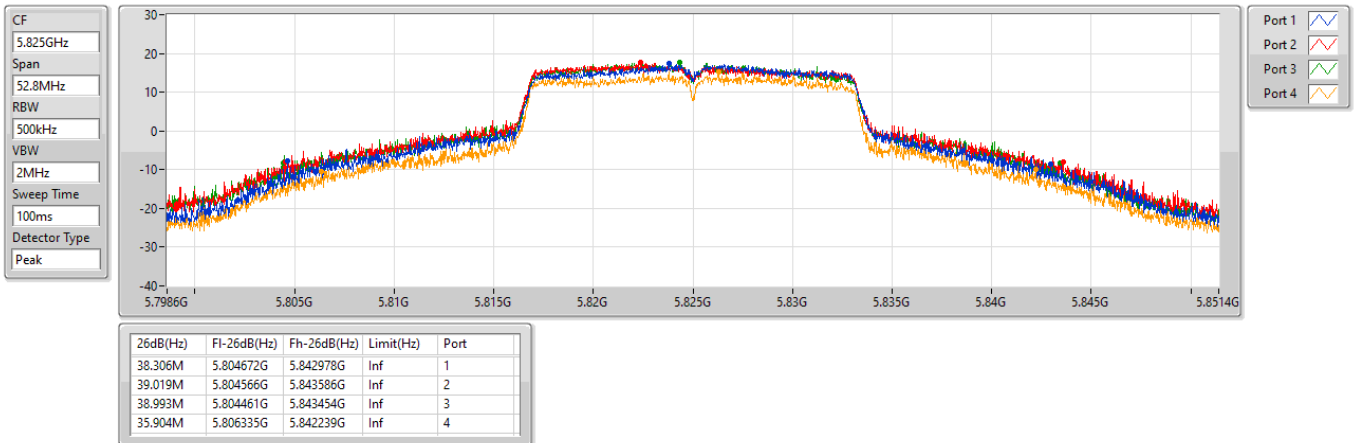
5825MHz



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

EBW

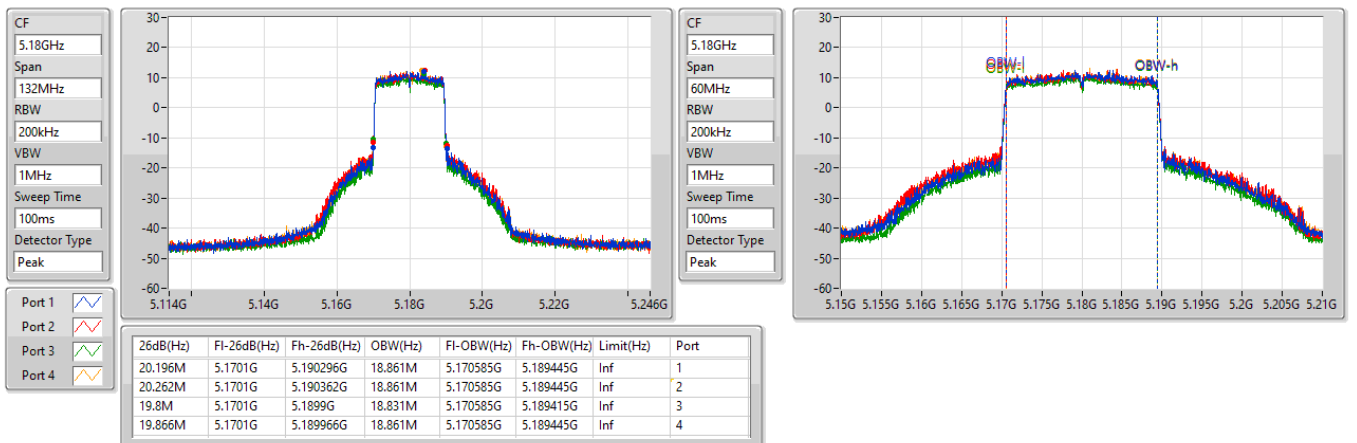
5825MHz



5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5180MHz

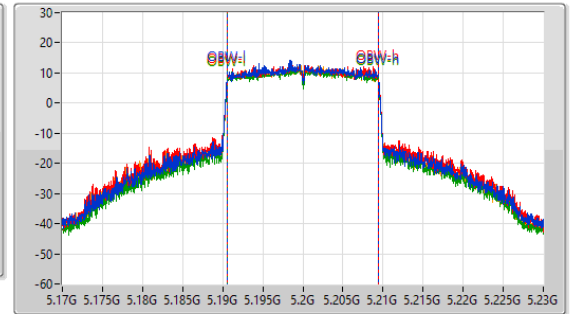
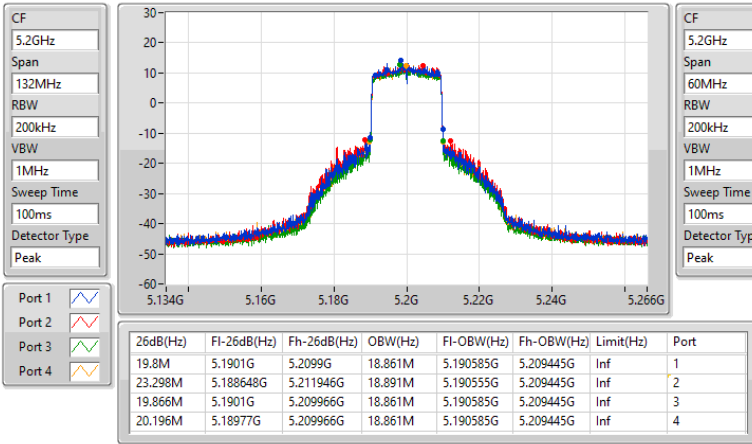




5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

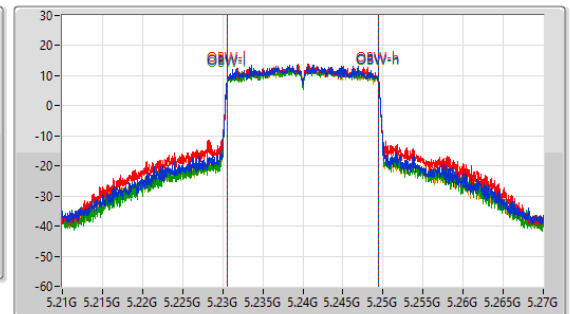
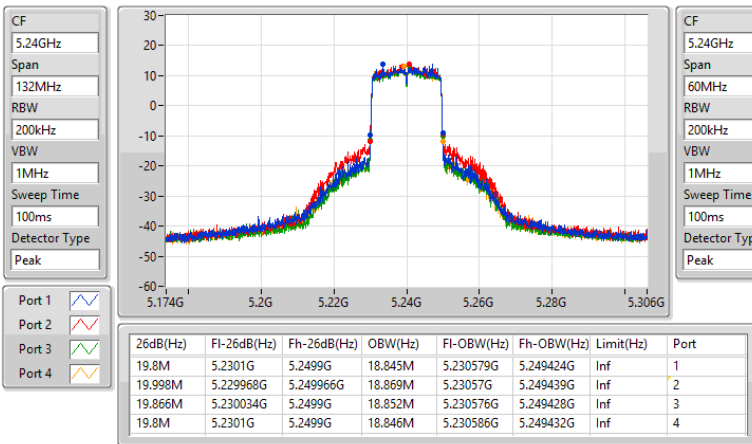
5200MHz



5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5240MHz

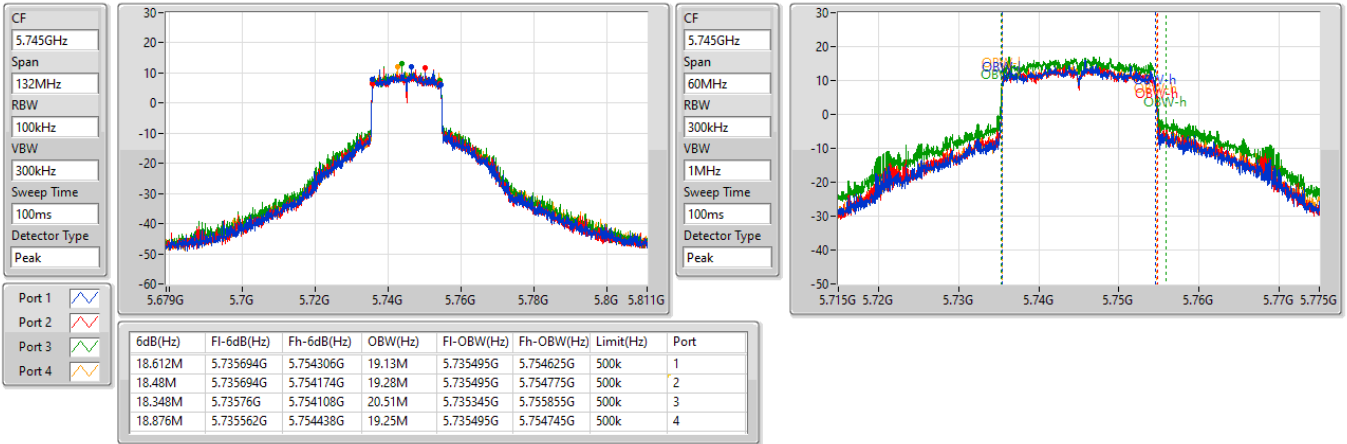




5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5745MHz



5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5745MHz

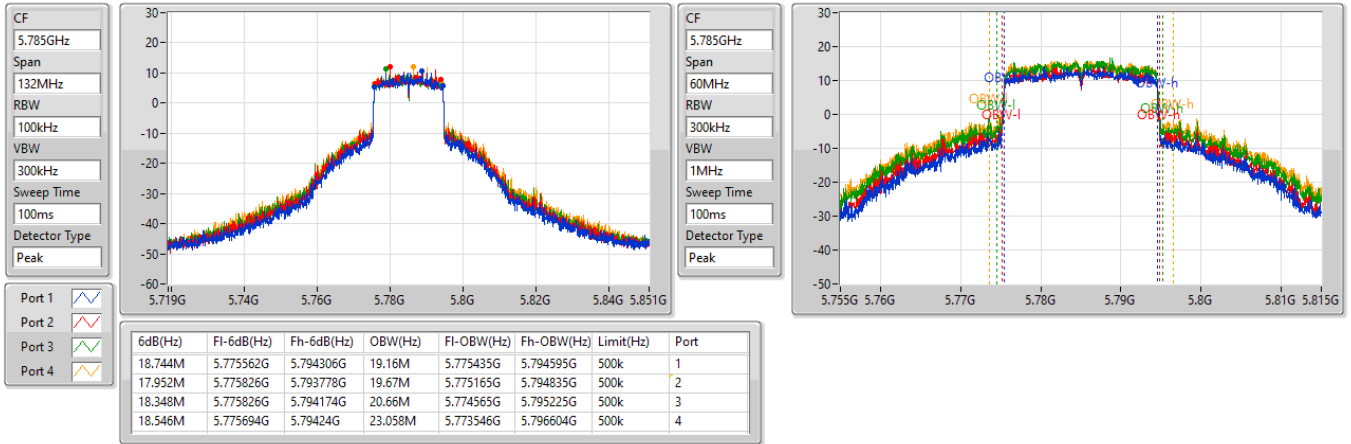




5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5785MHz



5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5785MHz

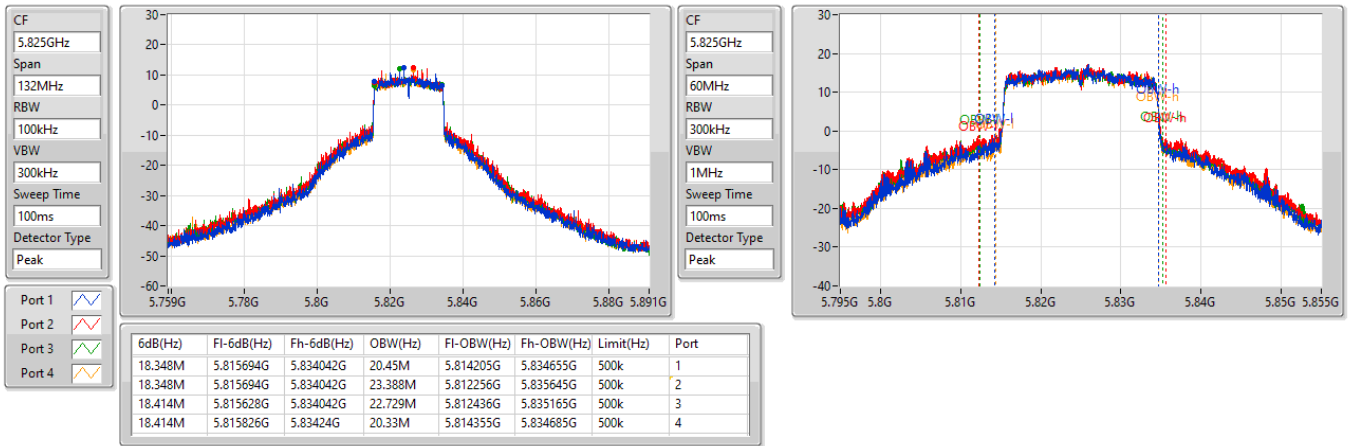




5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

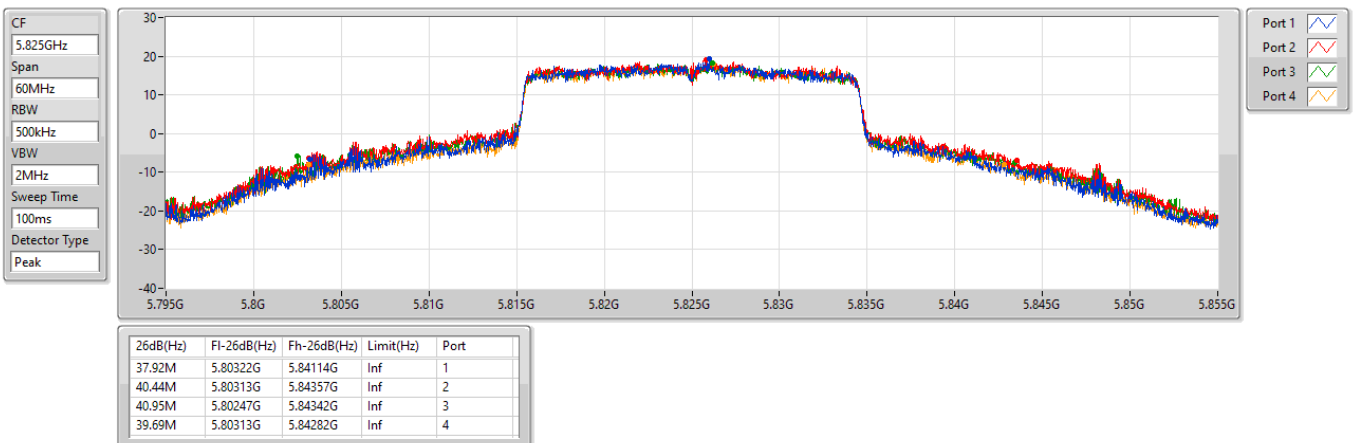
5825MHz



5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

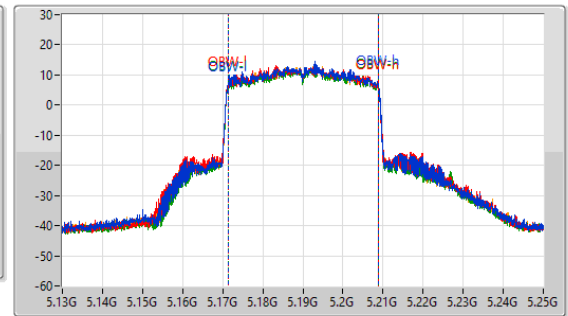
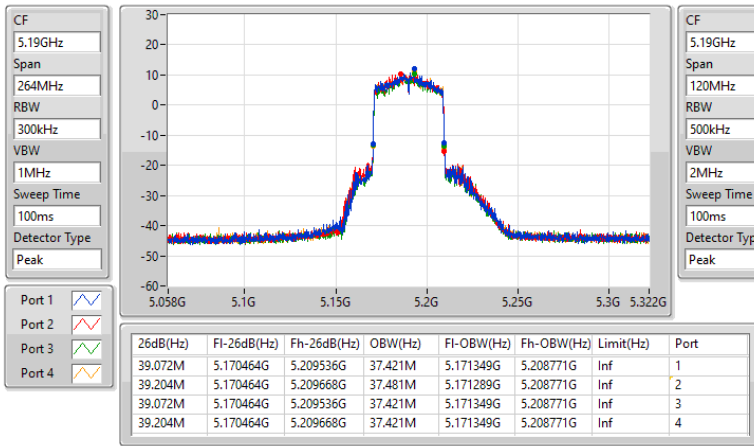
5825MHz



5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

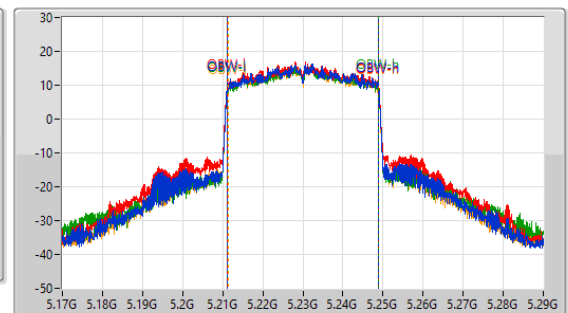
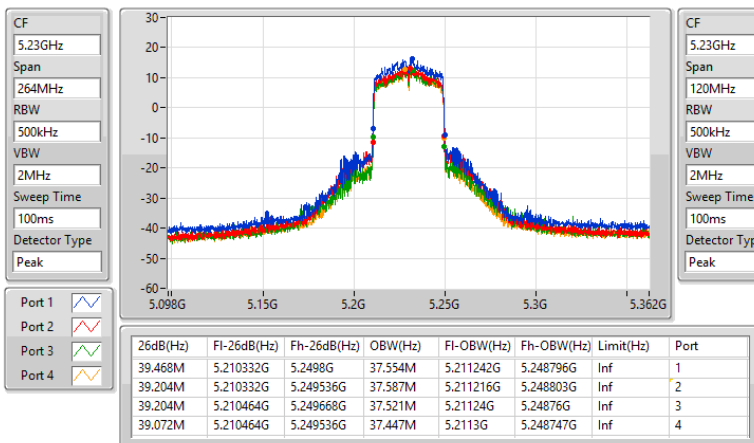
5190MHz



5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5230MHz

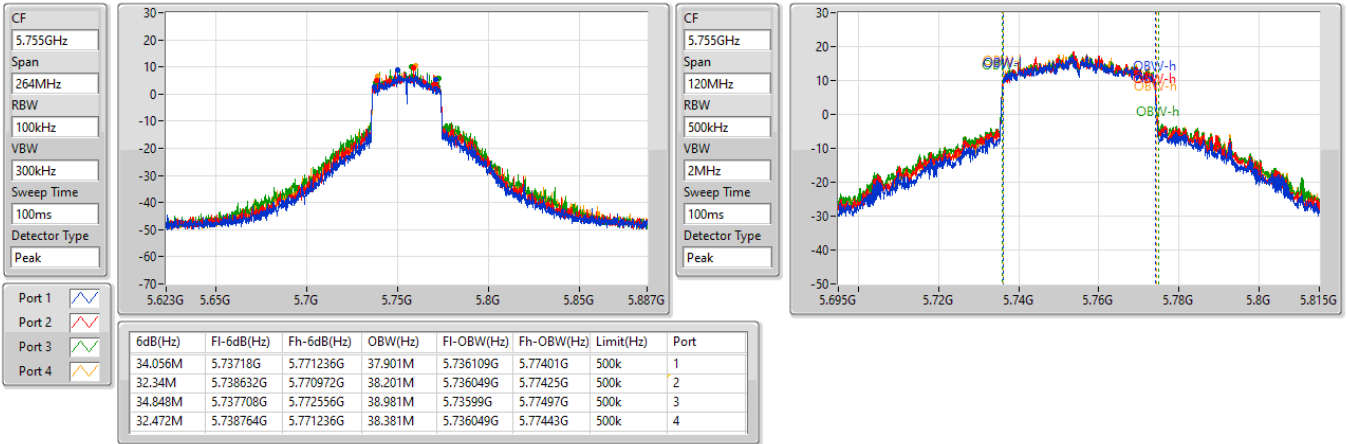




5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

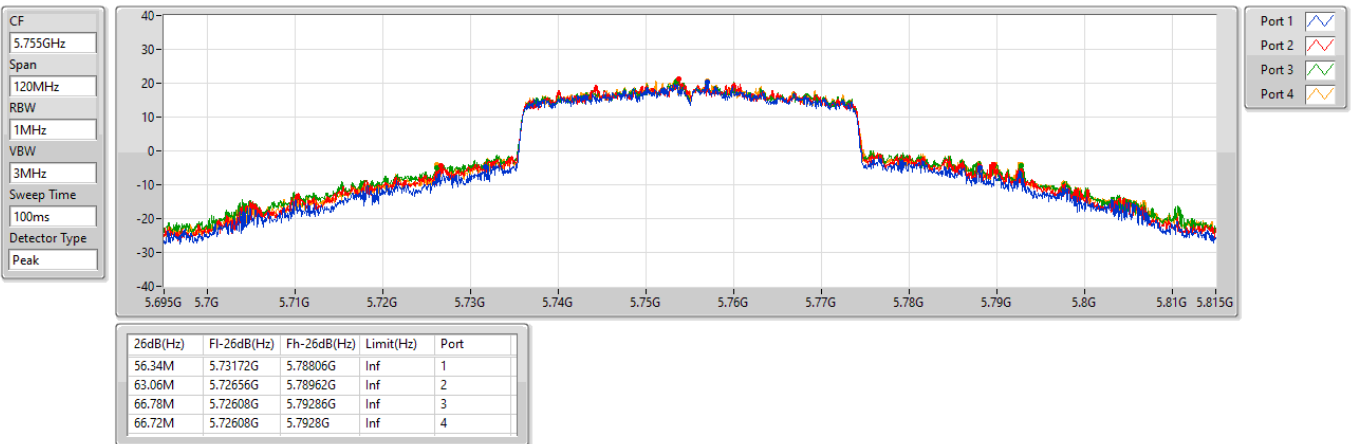
5755MHz



5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5755MHz

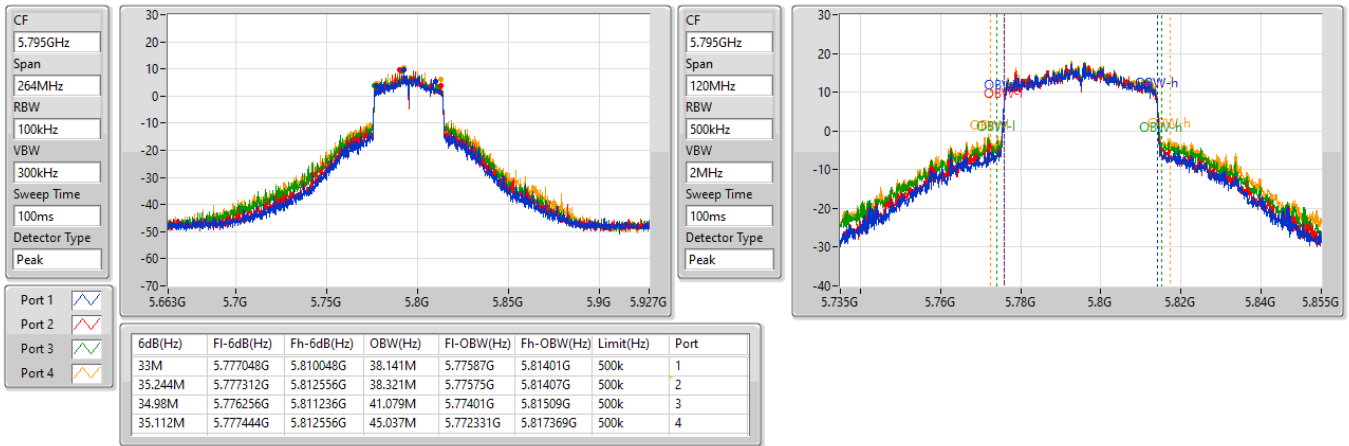




5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

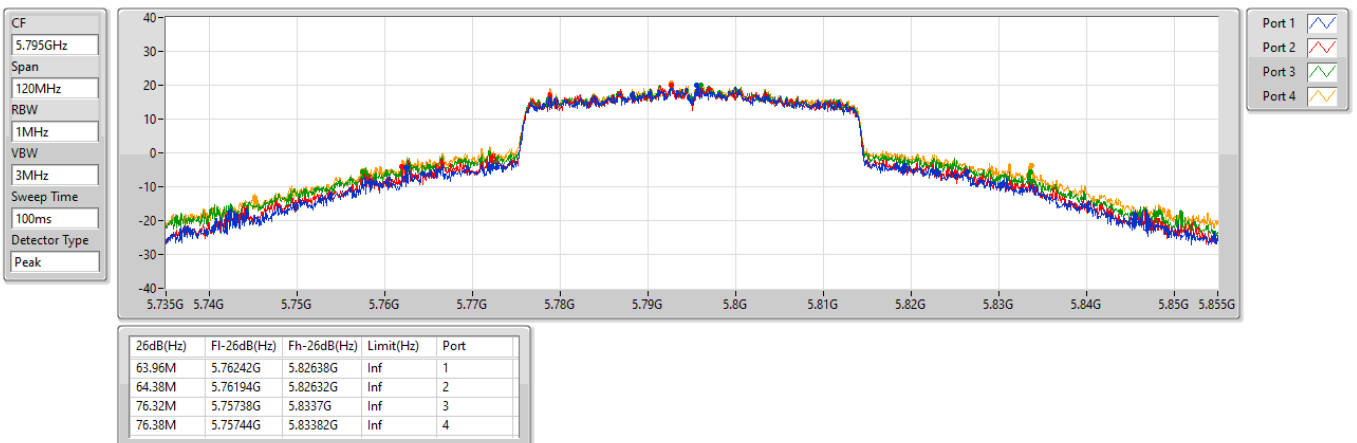
5795MHz



5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5795MHz

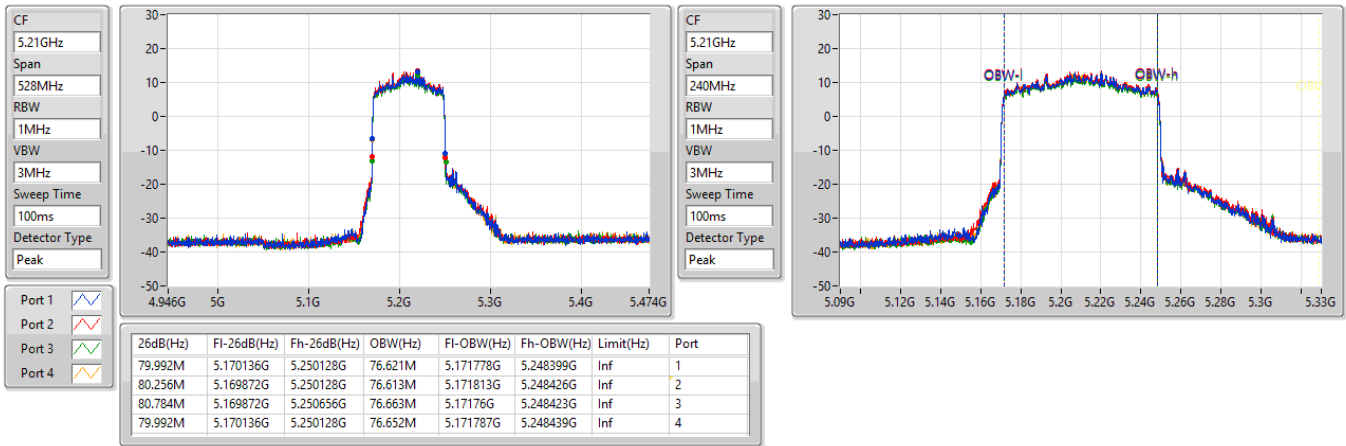




5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

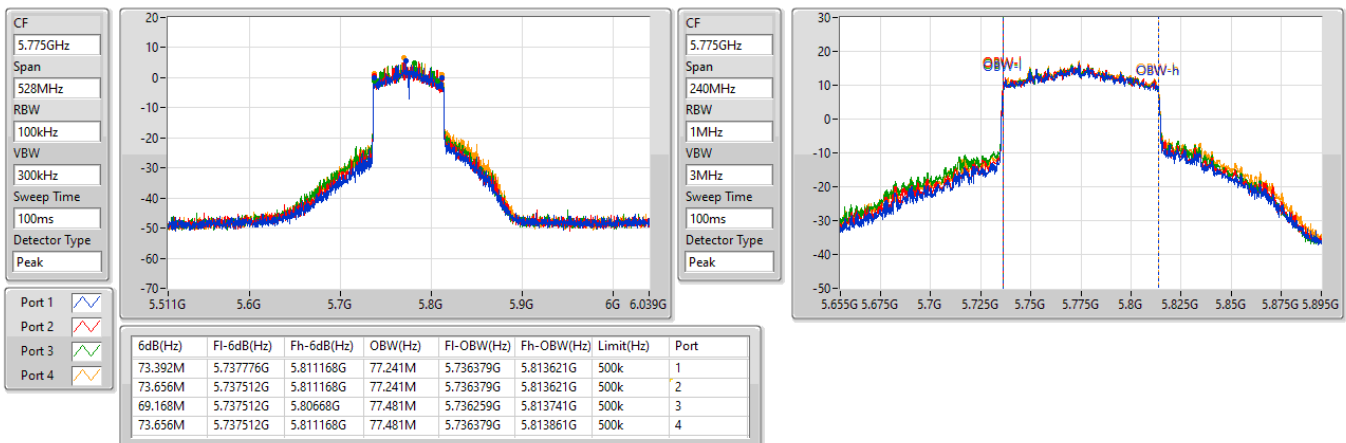
5210MHz

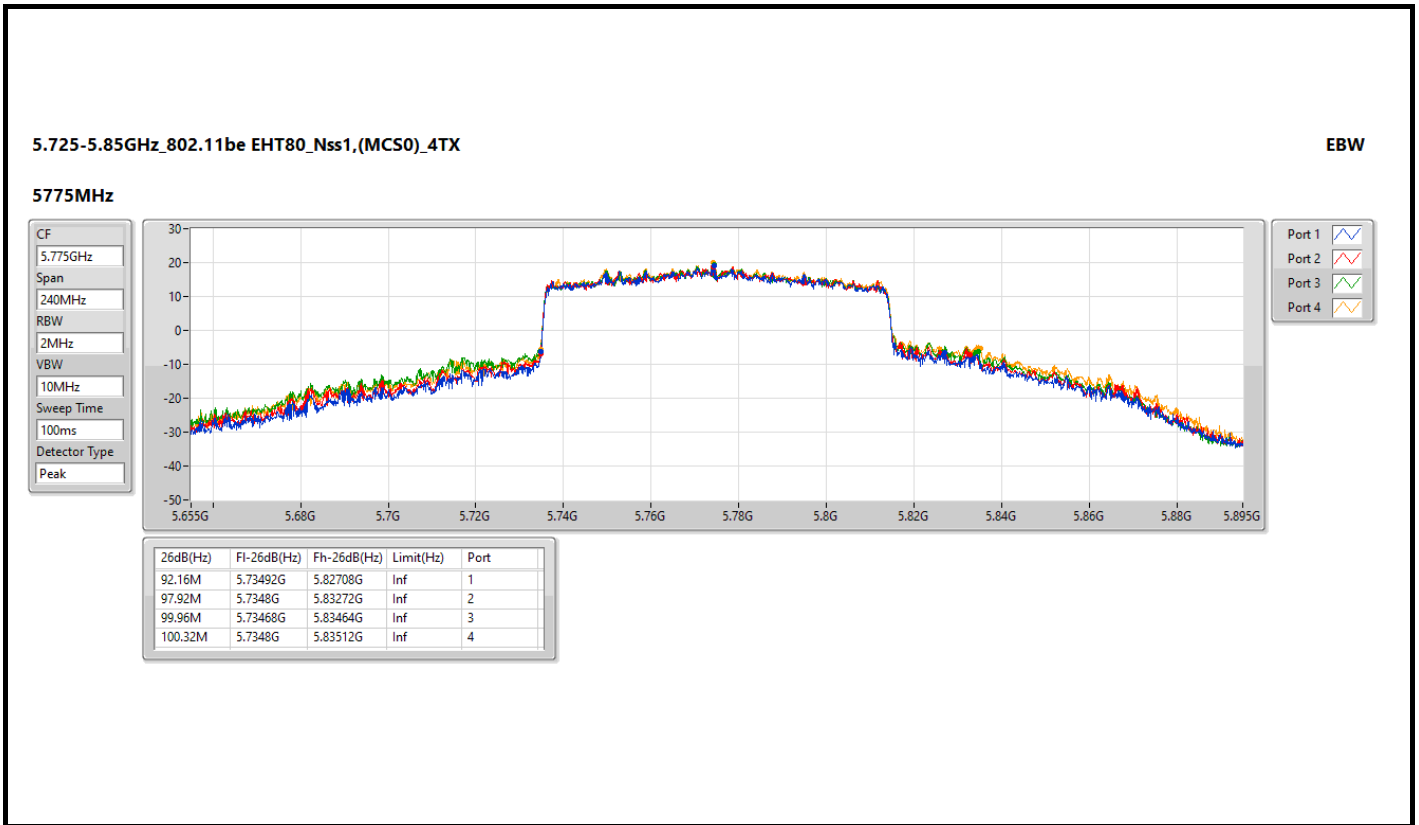


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5775MHz





Non-beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	27.87	0.61235	32.74	1.87932
802.11be EHT20_Nss1,(MCS0)_4TX-OFDMA	28.35	0.68391	33.22	2.09894
802.11be EHT40_Nss1,(MCS0)_4TX-OFDMA	28.45	0.69984	33.32	2.14783
802.11be EHT80_Nss1,(MCS0)_4TX-OFDMA	25.03	0.31842	29.90	0.97724
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.76	0.94624	34.75	2.98538
802.11be EHT20_Nss1,(MCS0)_4TX-OFDMA	29.68	0.92897	34.67	2.93089
802.11be EHT40_Nss1,(MCS0)_4TX-OFDMA	29.84	0.96383	34.83	3.04089
802.11be EHT80_Nss1,(MCS0)_4TX-OFDMA	28.33	0.68077	33.32	2.14783

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	4.87	22.02	22.11	21.06	21.55	27.73	30.00	32.60	36.00
5200MHz	Pass	4.87	21.83	22.08	21.26	21.72	27.75	30.00	32.62	36.00
5240MHz	Pass	4.87	21.97	22.36	21.38	21.62	27.87	30.00	32.74	36.00
5745MHz	Pass	4.99	23.49	23.91	23.71	23.82	29.76	30.00	34.75	36.00
5785MHz	Pass	4.99	23.01	23.45	23.17	23.72	29.37	30.00	34.36	36.00
5825MHz	Pass	4.99	23.46	24.12	23.51	23.16	29.60	30.00	34.59	36.00
802.11be EHT20_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.87	21.23	21.43	20.54	21.19	27.13	30.00	32.00	36.00
5200MHz	Pass	4.87	22.35	22.37	21.41	21.67	27.99	30.00	32.86	36.00
5240MHz	Pass	4.87	22.37	22.82	21.97	22.11	28.35	30.00	33.22	36.00
5745MHz	Pass	4.99	23.36	23.42	23.91	23.92	29.68	30.00	34.67	36.00
5785MHz	Pass	4.99	23.05	23.45	23.35	23.72	29.42	30.00	34.41	36.00
5825MHz	Pass	4.99	23.66	23.88	23.62	23.21	29.62	30.00	34.61	36.00
802.11be EHT40_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	4.87	19.77	20.06	19.35	19.68	25.74	30.00	30.61	36.00
5230MHz	Pass	4.87	22.46	23.02	22.09	22.06	28.45	30.00	33.32	36.00
5755MHz	Pass	4.99	23.25	23.86	23.99	24.13	29.84	30.00	34.83	36.00
5795MHz	Pass	4.99	23.02	23.42	23.37	23.82	29.44	30.00	34.43	36.00
802.11be EHT80_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	4.87	19.02	19.45	18.46	19.05	25.03	30.00	29.90	36.00
5775MHz	Pass	4.99	21.83	22.14	22.57	22.64	28.33	30.00	33.32	36.00

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

Beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX-OFDMA	28.14	0.65163	35.44	3.49945
802.11be EHT40-BF_Nss1,(MCS0)_4TX-OFDMA	28.26	0.66988	35.56	3.59749
802.11be EHT80-BF_Nss1,(MCS0)_4TX-OFDMA	24.92	0.31046	32.22	1.66725
5.725-5.85GHz	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX-OFDMA	28.81	0.76033	35.75	3.75837
802.11be EHT40-BF_Nss1,(MCS0)_4TX-OFDMA	28.98	0.79068	35.92	3.90841
802.11be EHT80-BF_Nss1,(MCS0)_4TX-OFDMA	28.14	0.65163	35.08	3.22107

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_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.30	21.2	20.65	20.17	20.91	26.77	28.70	34.07	36.00
5200MHz	Pass	7.30	22.22	22.28	21.41	21.82	27.97	28.70	35.27	36.00
5240MHz	Pass	7.30	22.54	22.91	21.28	21.53	28.14	28.70	35.44	36.00
5745MHz	Pass	6.94	21.52	23.06	22.71	22.94	28.62	29.06	35.56	36.00
5785MHz	Pass	6.94	21.76	22.69	23.24	22.62	28.63	29.06	35.57	36.00
5825MHz	Pass	6.94	22.24	23.39	22.91	22.55	28.81	29.06	35.75	36.00
802.11be EHT40-BF_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	7.30	19.72	19.49	18.62	19.55	25.39	28.70	32.69	36.00
5230MHz	Pass	7.30	22.39	22.69	21.78	22.05	28.26	28.70	35.56	36.00
5755MHz	Pass	6.94	21.92	23.36	23.47	22.91	28.98	29.06	35.92	36.00
5795MHz	Pass	6.94	22.07	22.68	23.28	23.14	28.84	29.06	35.78	36.00
802.11be EHT80-BF_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	7.30	19.14	19.39	18.3	18.67	24.92	28.70	32.22	36.00
5775MHz	Pass	6.94	21.32	22.32	22.71	22.02	28.14	29.06	35.08	36.00

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

DG gain is measured. Please refer to antenna test report, report number AP411518.

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	15.41	22.71
802.11be EHT20_Nss1,(MCS0)_4TX-OFDMA	15.57	22.87
802.11be EHT40_Nss1,(MCS0)_4TX-OFDMA	13.41	20.71
802.11be EHT80_Nss1,(MCS0)_4TX-OFDMA	6.95	14.25
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	15.93	22.87
802.11be EHT20_Nss1,(MCS0)_4TX-OFDMA	15.36	22.30
802.11be EHT40_Nss1,(MCS0)_4TX-OFDMA	13.00	19.94
802.11be EHT80_Nss1,(MCS0)_4TX-OFDMA	8.62	15.56

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.30	9.56	9.70	8.94	9.55	15.23	15.70	22.53	23.00
5200MHz	Pass	7.30	9.91	9.63	8.90	9.42	15.29	15.70	22.59	23.00
5240MHz	Pass	7.30	9.59	9.82	9.18	9.75	15.41	15.70	22.71	23.00
5745MHz	Pass	6.94	9.86	10.15	9.78	10.42	15.93	29.06	22.87	36.00
5785MHz	Pass	6.94	8.96	9.24	9.30	10.28	15.33	29.06	22.27	36.00
5825MHz	Pass	6.94	9.95	10.00	9.67	9.23	15.53	29.06	22.47	36.00
802.11be EHT20_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.30	8.46	9.07	7.80	8.58	14.31	15.70	21.61	23.00
5200MHz	Pass	7.30	9.73	9.78	8.94	9.54	15.28	15.70	22.58	23.00
5240MHz	Pass	7.30	9.89	10.37	9.29	9.64	15.57	15.70	22.87	23.00
5745MHz	Pass	6.94	9.54	9.59	9.77	9.77	15.36	29.06	22.30	36.00
5785MHz	Pass	6.94	8.84	9.20	8.90	9.55	14.86	29.06	21.80	36.00
5825MHz	Pass	6.94	9.73	9.84	9.66	9.08	15.20	29.06	22.14	36.00
802.11be EHT40_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	7.30	5.01	5.35	4.32	5.06	10.78	15.70	18.08	23.00
5230MHz	Pass	7.30	7.83	8.20	7.09	7.37	13.41	15.70	20.71	23.00
5755MHz	Pass	6.94	6.58	7.52	7.33	7.68	13.00	29.06	19.94	36.00
5795MHz	Pass	6.94	6.63	6.88	7.07	7.49	12.74	29.06	19.68	36.00
802.11be EHT80_Nss1,(MCS0)_4TX-OFDMA	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	7.30	1.06	1.28	0.47	1.14	6.95	15.70	14.25	23.00
5775MHz	Pass	6.94	2.48	2.84	2.75	3.19	8.62	29.06	15.56	36.00

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

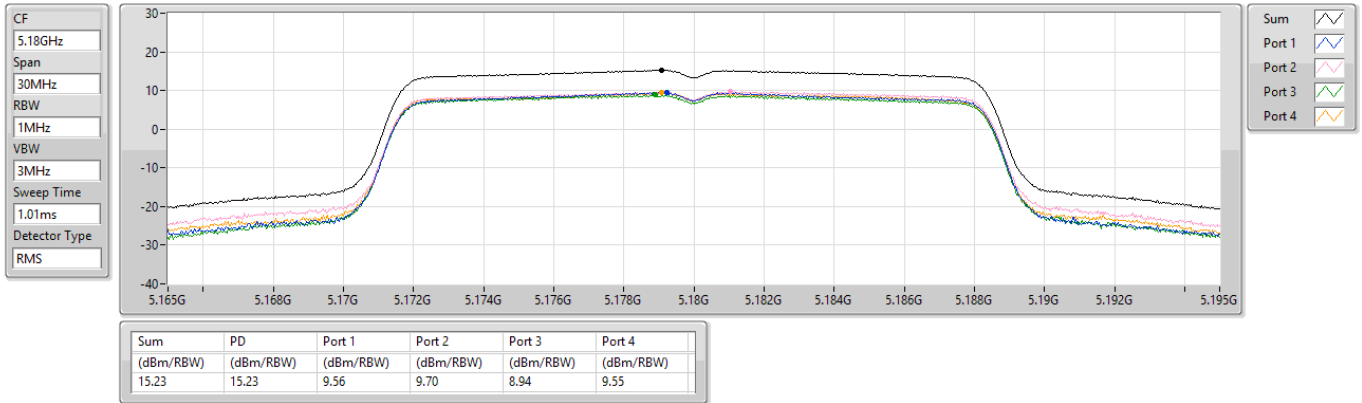
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

DG gain is measured. Please refer to antenna test report, report number AP411518.

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

PSD

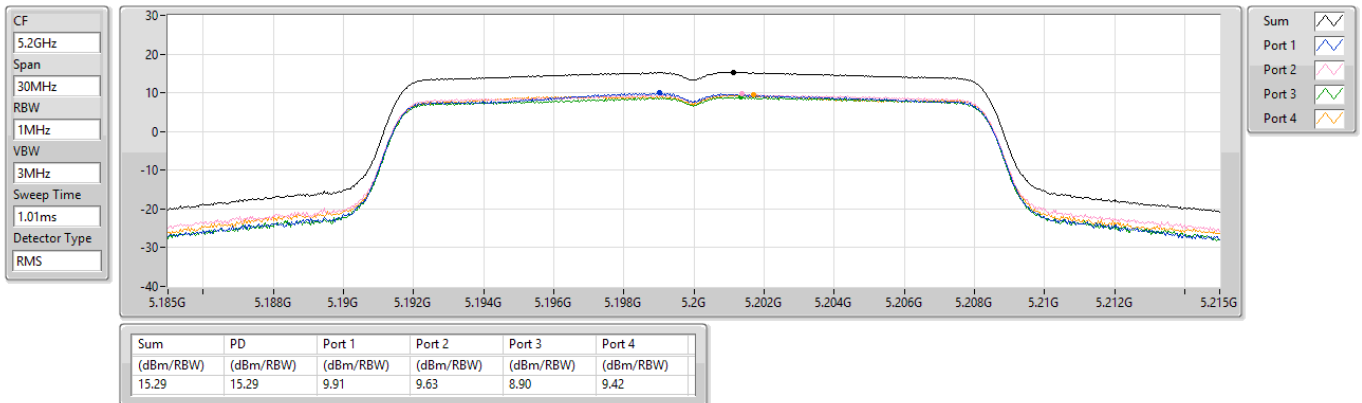
5180MHz



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

PSD

5200MHz

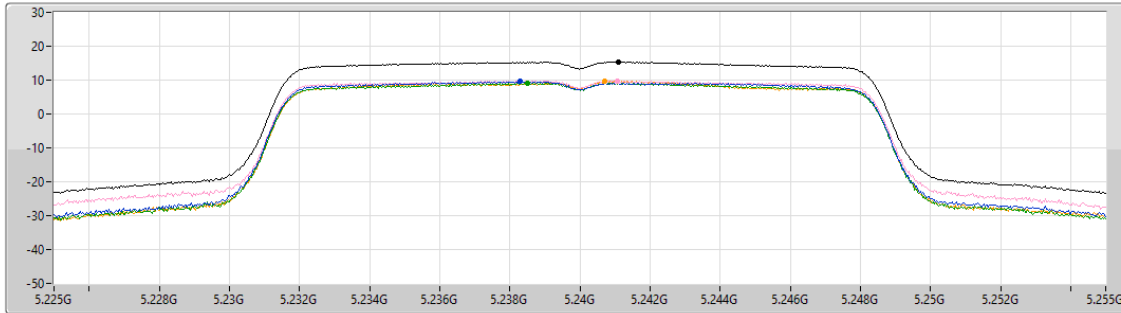


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

PSD

5240MHz

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



Sum
Port 1
Port 2
Port 3
Port 4

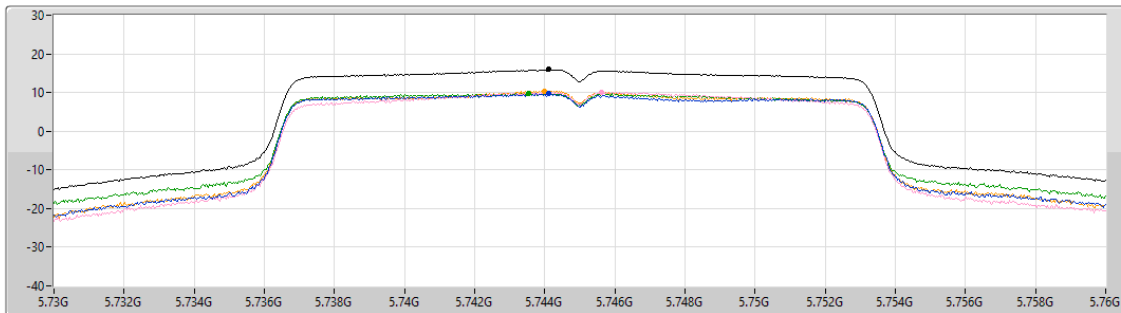
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.41	15.41	9.59	9.82	9.18	9.75

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

PSD

5745MHz

CF
5.745GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS



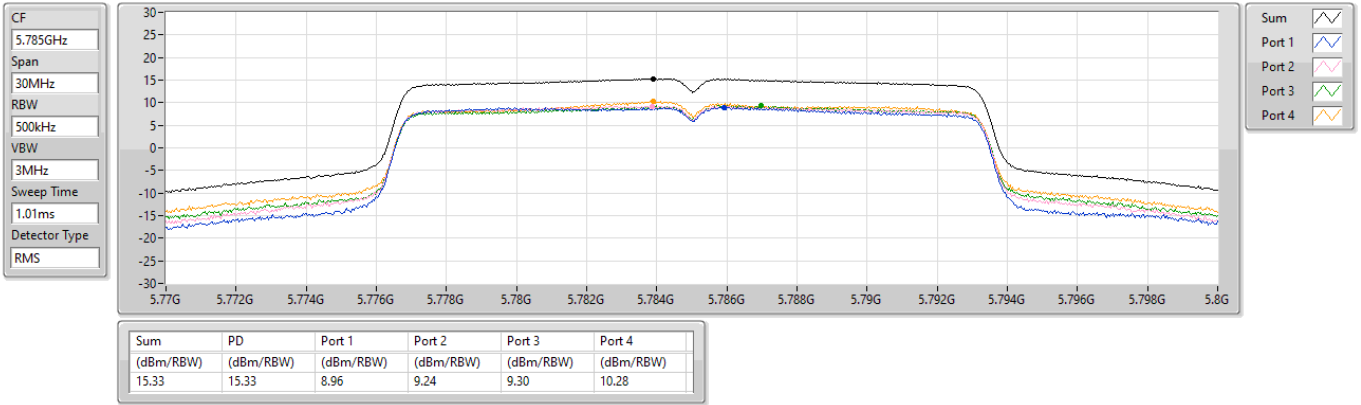
Sum
Port 1
Port 2
Port 3
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.93	15.93	9.86	10.15	9.78	10.42

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

PSD

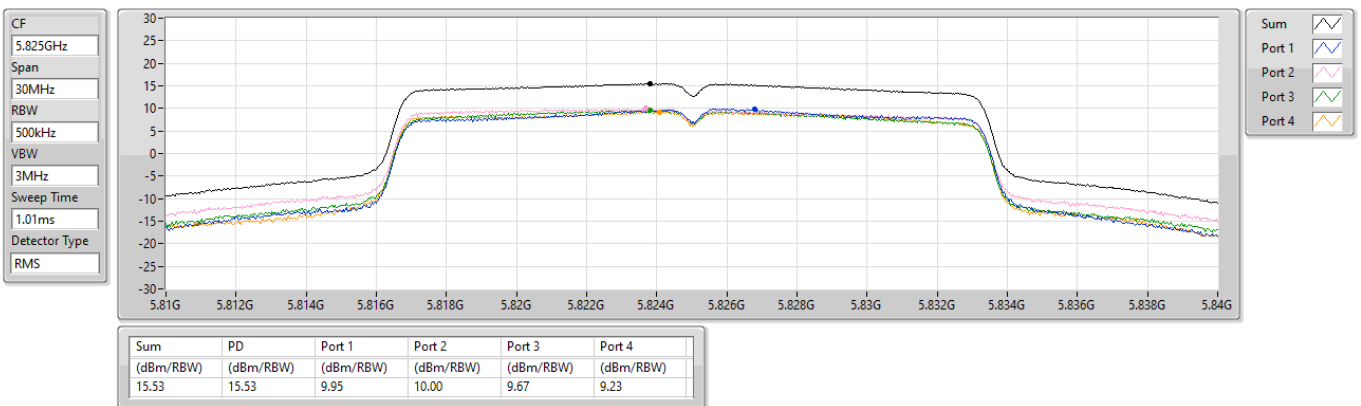
5785MHz



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

PSD

5825MHz

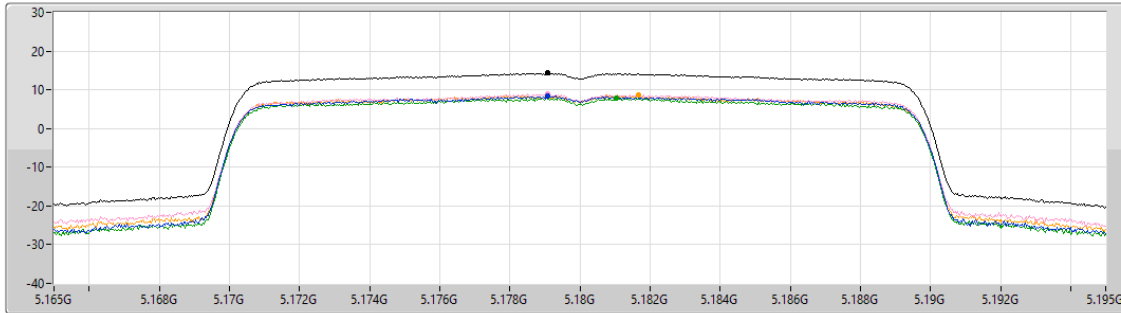


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

5180MHz

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



Sum
Port 1
Port 2
Port 3
Port 4

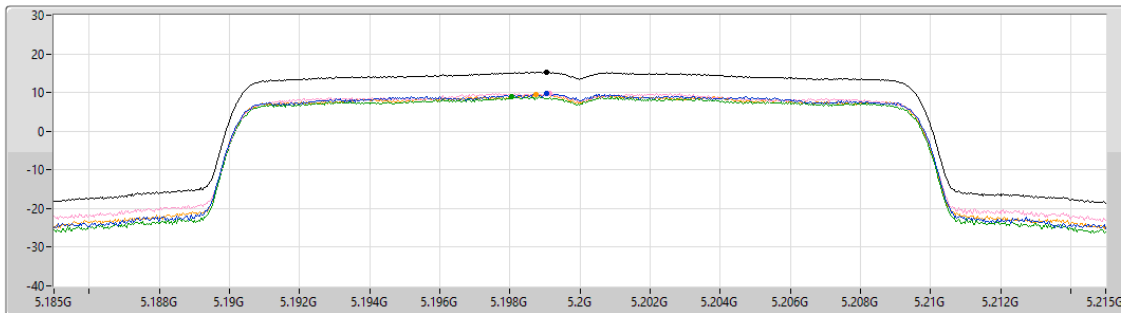
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.31	14.31	8.46	9.07	7.80	8.58

5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

5200MHz

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



Sum
Port 1
Port 2
Port 3
Port 4

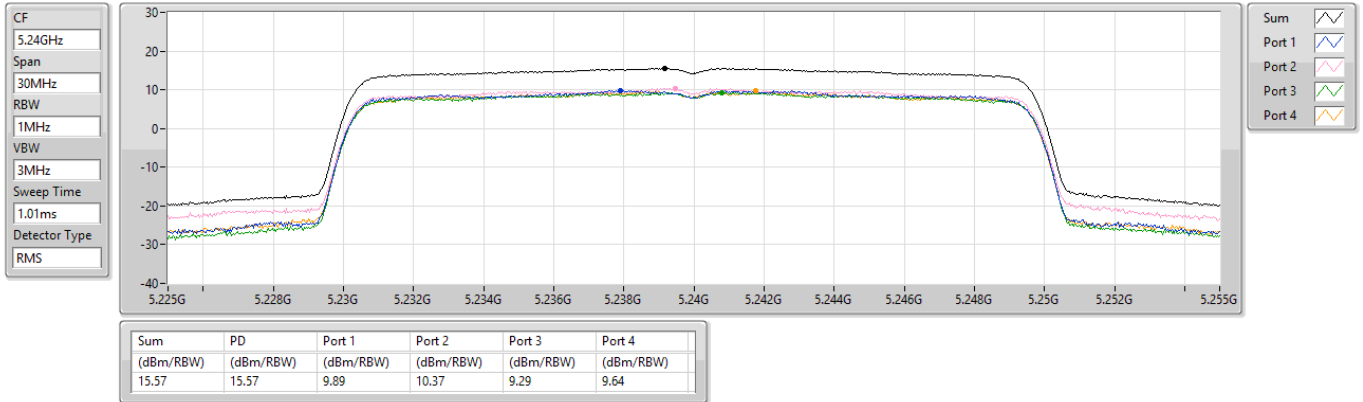
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.28	15.28	9.73	9.78	8.94	9.54



5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

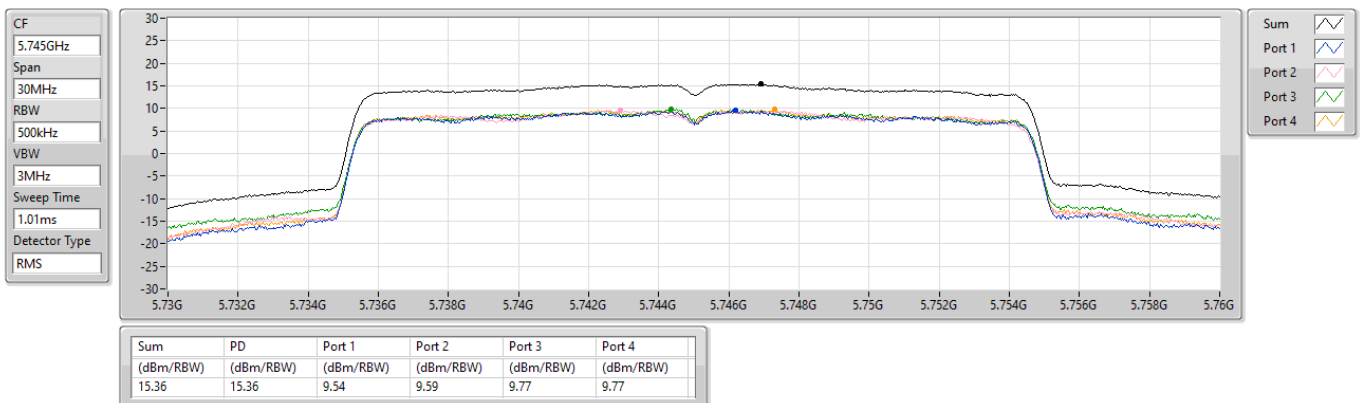
5240MHz



5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

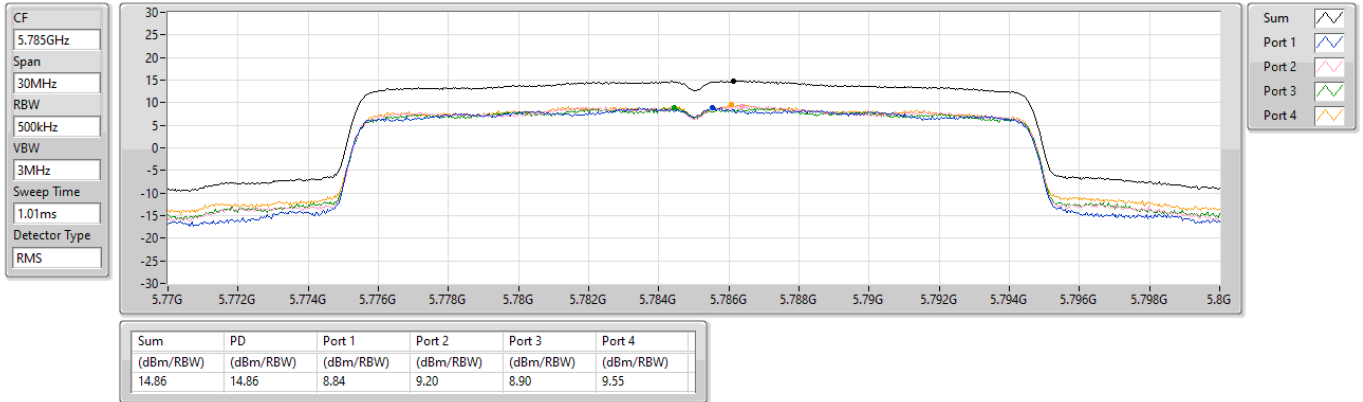
5745MHz



5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

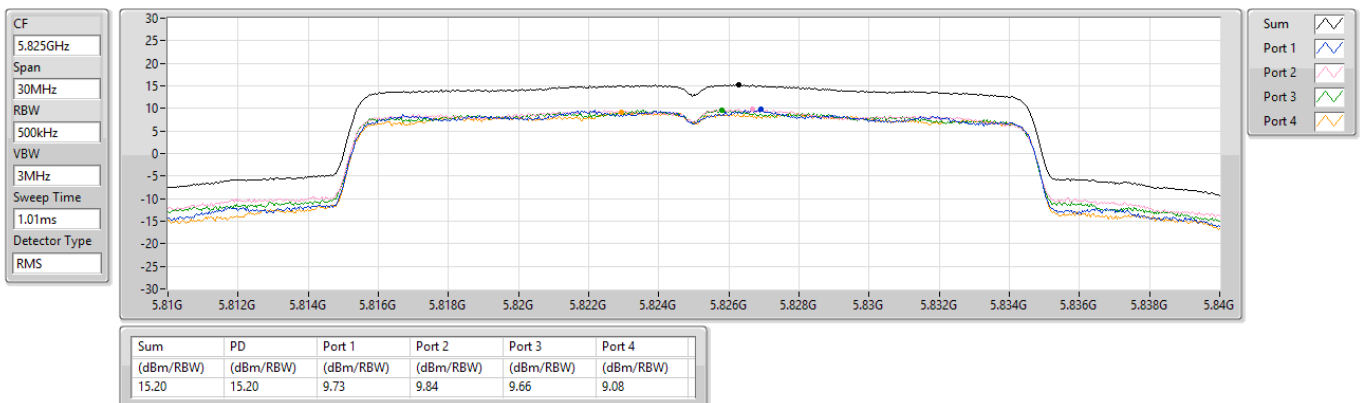
5785MHz



5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

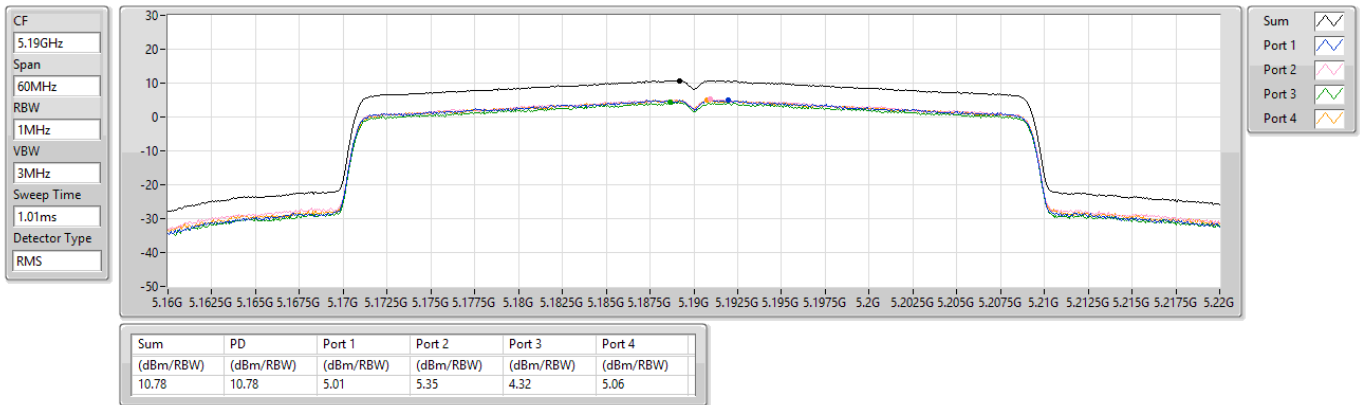
5825MHz



5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_4TX

PSD

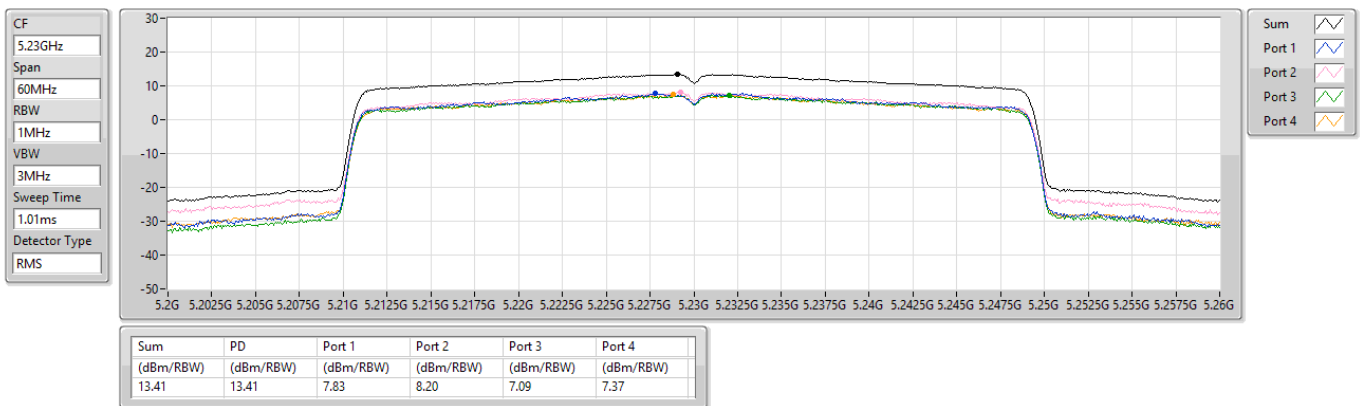
5190MHz



5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_4TX

PSD

5230MHz

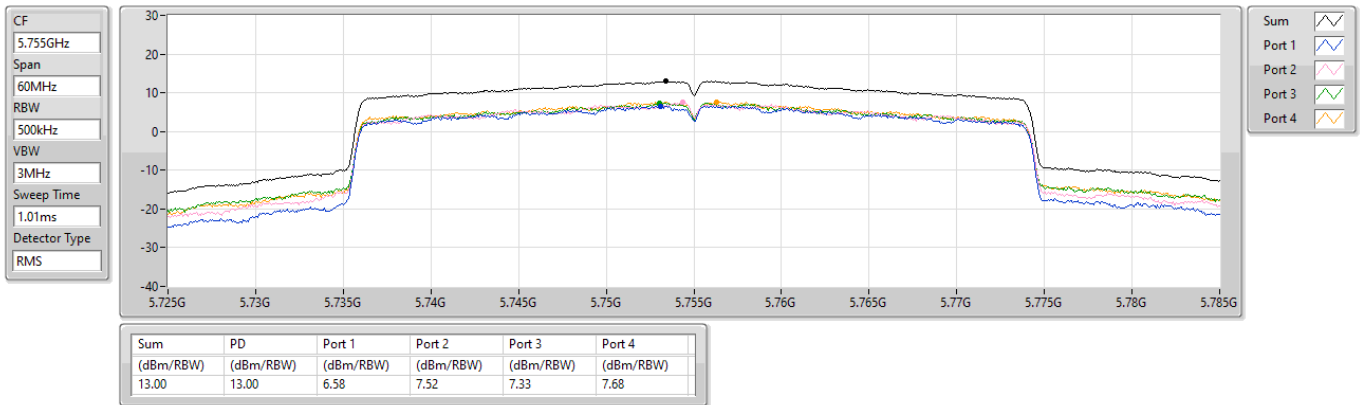




5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

PSD

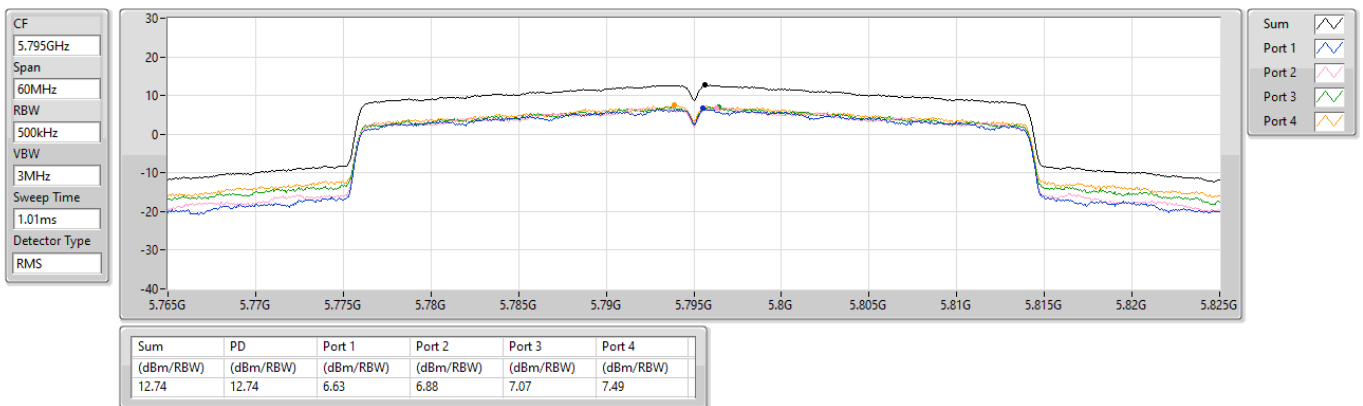
5755MHz



5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

PSD

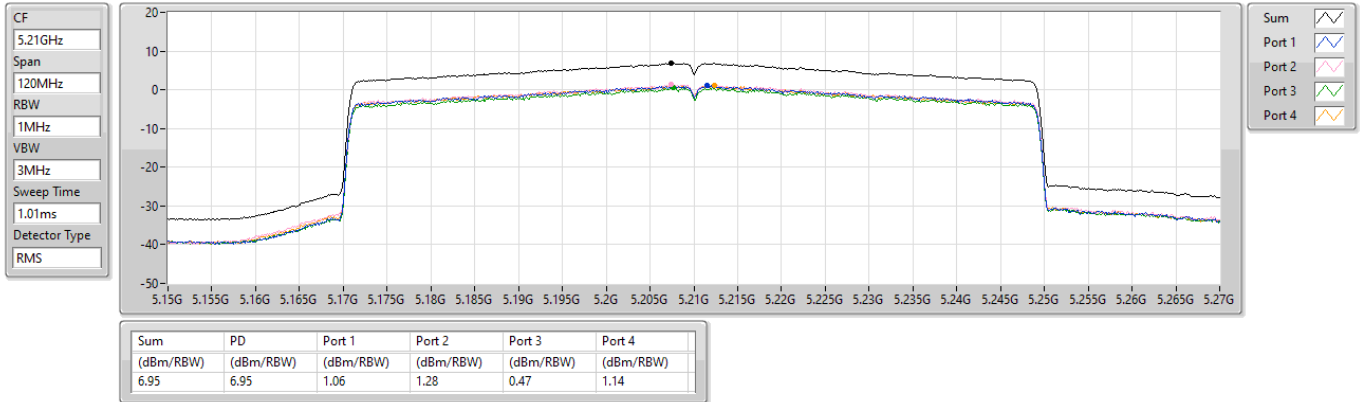
5795MHz



5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_4TX

PSD

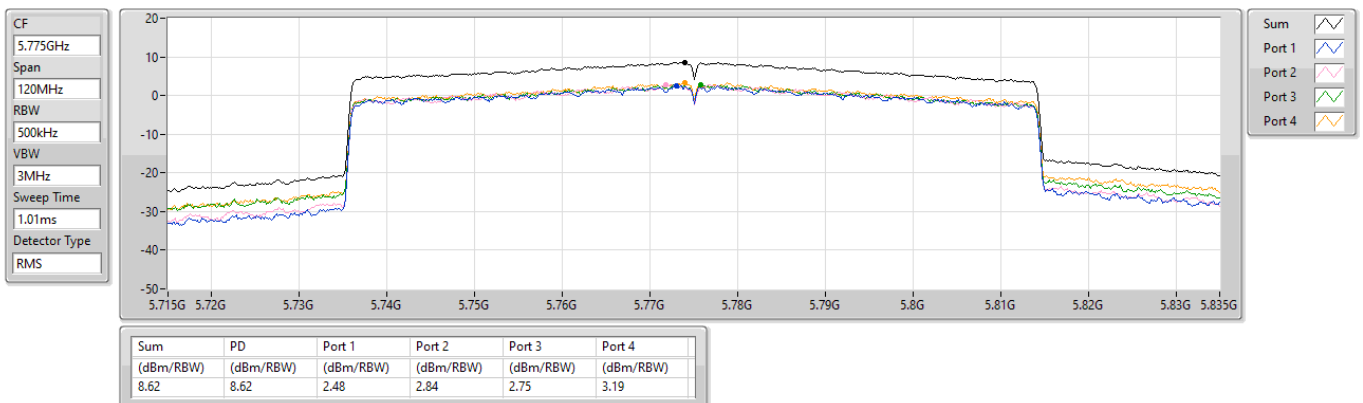
5210MHz



5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_4TX

PSD

5775MHz



Unwanted Emissions (Below 1GHz)

Modulation	be EHT40-OFDMA		Test Freq. (MHz)		5230				
Polarization	Horizontal								
Test By :Sean Yu- Temperature(°C):23 Humidity(%):64									
Level (dBUV/m) <									



Modulation	be EHT40-OFDMA	Test Freq. (MHz)	5230
Polarization	Vertical		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):64			
Level (dBuV/m)			



Modulation	be EHT40-OFDMA	Test Freq. (MHz)	5755
Polarization	Horizontal		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):64			
Level (dBUV/m)			



Modulation	be EHT40-OFDMA	Test Freq. (MHz)	5755
Polarization	Vertical		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):64			
Level (dBUV/m)			

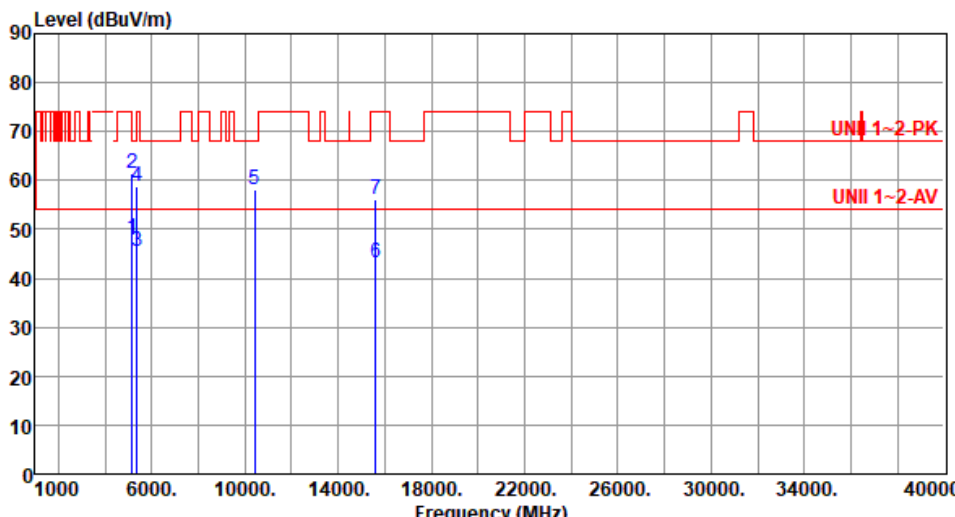
Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Sean Yu- Temperature(°C):22 Humidity(%):63			
Level (dBuV/m)			



Modulation	11a	Test Freq. (MHz)	5180																																																													
Polarization	Vertical																																																															
Test By :Sean Yu- Temperature(°C):22 Humidity(%):63																																																																
	<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>5150.00</td><td>53.02</td><td>54.00</td><td>-0.98</td><td>52.69</td><td>0.33</td><td>Average</td><td>100</td><td>1</td></tr><tr><td>2</td><td>5150.00</td><td>68.45</td><td>74.00</td><td>-5.55</td><td>68.12</td><td>0.33</td><td>Peak</td><td>100</td><td>1</td></tr><tr><td>3</td><td>10360.00</td><td>56.12</td><td>68.20</td><td>-12.08</td><td>48.76</td><td>7.36</td><td>Peak</td><td>241</td><td>223</td></tr><tr><td>4</td><td>15540.00</td><td>43.34</td><td>54.00</td><td>-10.66</td><td>39.38</td><td>3.96</td><td>Average</td><td>100</td><td>5</td></tr><tr><td>5</td><td>15540.00</td><td>57.31</td><td>74.00</td><td>-16.69</td><td>53.35</td><td>3.96</td><td>Peak</td><td>100</td><td>5</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	5150.00	53.02	54.00	-0.98	52.69	0.33	Average	100	1	2	5150.00	68.45	74.00	-5.55	68.12	0.33	Peak	100	1	3	10360.00	56.12	68.20	-12.08	48.76	7.36	Peak	241	223	4	15540.00	43.34	54.00	-10.66	39.38	3.96	Average	100	5	5	15540.00	57.31	74.00	-16.69	53.35	3.96	Peak	100	5			
	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	53.02	54.00	-0.98	52.69	0.33	Average	100	1																																																							
2	5150.00	68.45	74.00	-5.55	68.12	0.33	Peak	100	1																																																							
3	10360.00	56.12	68.20	-12.08	48.76	7.36	Peak	241	223																																																							
4	15540.00	43.34	54.00	-10.66	39.38	3.96	Average	100	5																																																							
5	15540.00	57.31	74.00	-16.69	53.35	3.96	Peak	100	5																																																							
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).																																																																

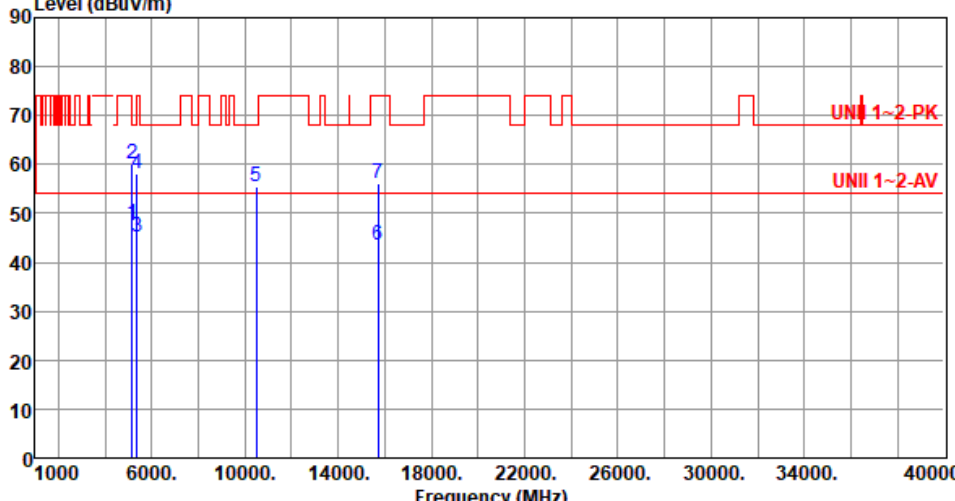


Modulation	11a	Test Freq. (MHz)	5200																																																																																
Polarization	Horizontal																																																																																		
Test By :Sean Yu- Temperature(°C):22 Humidity(%):63																																																																																			
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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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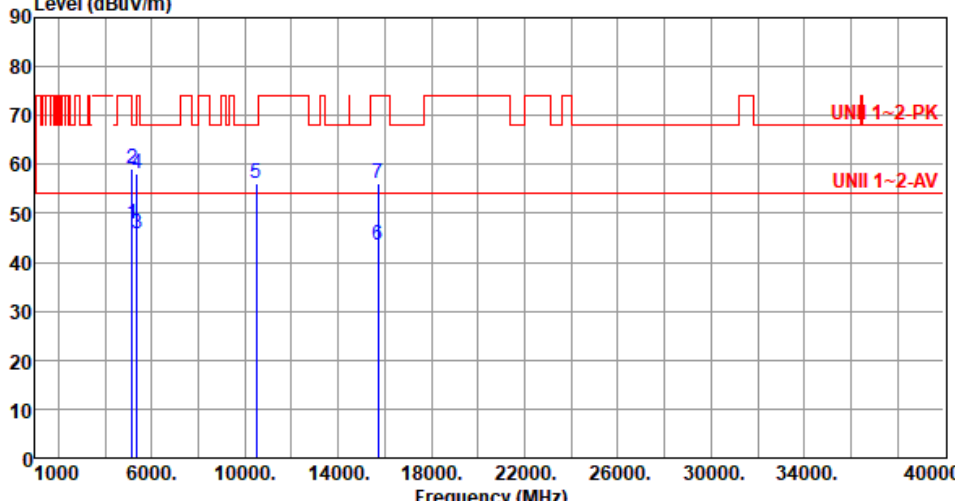


Modulation	11a	Test Freq. (MHz)	5200						
Polarization	Vertical								
Test By :Sean Yu- Temperature(°C):22 Humidity(%):63									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	49.44	54.00	-4.56	49.11	0.33	Average	141	1
2	5150.00	64.12	74.00	-9.88	63.79	0.33	Peak	141	1
3	5350.00	45.81	54.00	-8.19	46.06	-0.25	Average	141	1
4	5350.00	57.80	74.00	-16.20	58.05	-0.25	Peak	141	1
5	10400.00	56.45	68.20	-11.75	49.11	7.34	Peak	243	216
6	15600.00	43.49	54.00	-10.51	39.49	4.00	Average	100	3
7	15600.00	57.63	74.00	-16.37	53.63	4.00	Peak	100	3
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).									

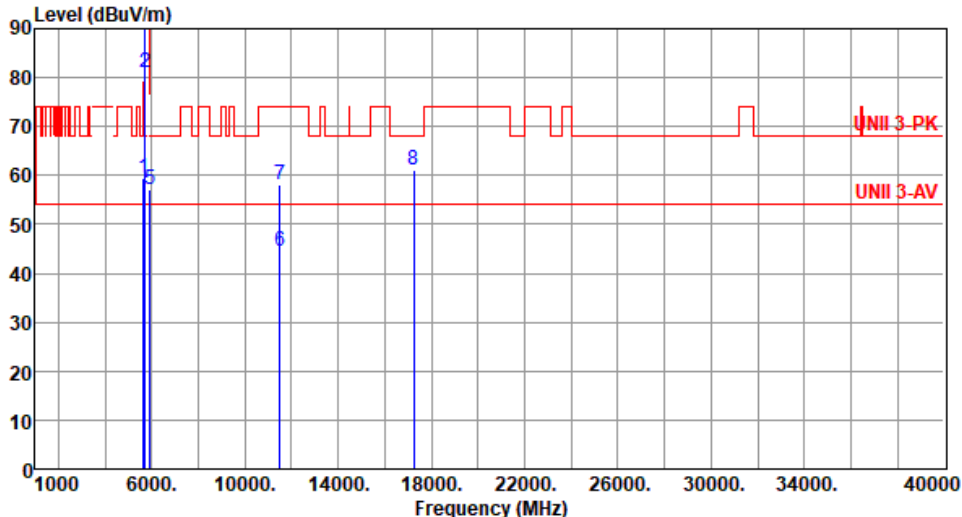


Modulation	11a	Test Freq. (MHz)	5240																																																																																
Polarization	Horizontal																																																																																		
Test By :Sean Yu- Temperature(°C):22 Humidity(%):63																																																																																			
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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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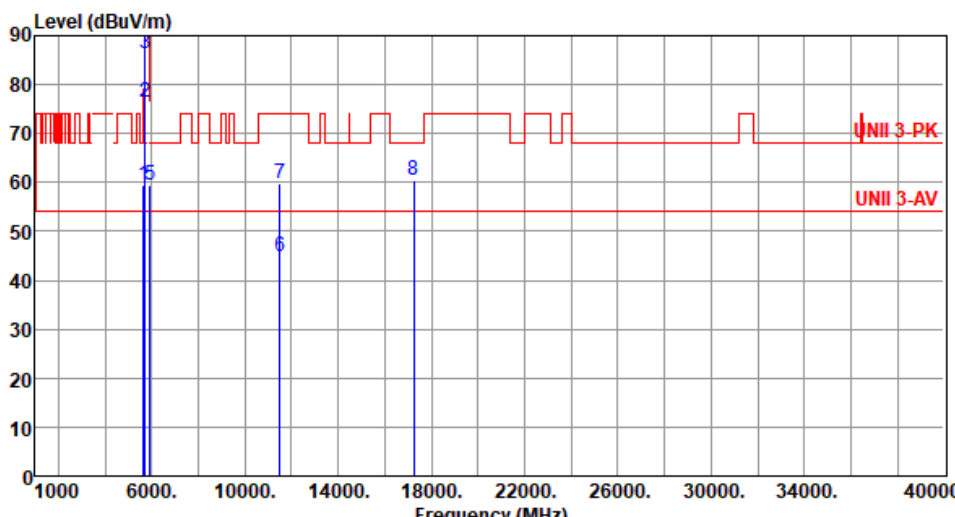


Modulation	11a	Test Freq. (MHz)	5240																																																																																
Polarization	Vertical																																																																																		
Test By :Sean Yu- Temperature(°C):22 Humidity(%):63																																																																																			
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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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Modulation	11a	Test Freq. (MHz)	5745																																																																																										
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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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								cm	deg																																																																																																								
1	5650.00	59.48	68.20	-8.72	59.27	0.21	Peak	171	27																																																																																																								
2	5700.00	76.43	105.20	-28.77	75.90	0.53	Peak	171	27																																																																																																								
3	5720.00	86.30	110.80	-24.50	85.73	0.57	Peak	171	27																																																																																																								
4	5725.00	95.68	122.20	-26.52	95.10	0.58	Peak	171	27																																																																																																								
5	5925.00	59.44	68.20	-8.76	58.31	1.13	Peak	171	27																																																																																																								
6	11490.00	44.98	54.00	-9.02	37.67	7.31	Average	390	181																																																																																																								
7	11490.00	59.82	74.00	-14.18	52.51	7.31	Peak	390	181																																																																																																								
8	17235.00	60.59	68.20	-7.61	53.90	6.69	Peak	392	184																																																																																																								
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).																																																																																																																	



Modulation	11a	Test Freq. (MHz)	5785																																																												
Polarization	Horizontal																																																														
Test By :Sean Yu- Temperature(°C):22 Humidity(%):63																																																															
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>60.98</td><td>68.20</td><td>-7.22</td><td>60.77</td><td>0.21</td><td>Peak</td><td>142</td><td>353</td></tr><tr><td>2</td><td>5925.00</td><td>60.50</td><td>68.20</td><td>-7.70</td><td>59.37</td><td>1.13</td><td>Peak</td><td>142</td><td>353</td></tr><tr><td>3</td><td>11570.00</td><td>44.10</td><td>54.00</td><td>-9.90</td><td>36.88</td><td>7.22</td><td>Average</td><td>100</td><td>22</td></tr><tr><td>4</td><td>11570.00</td><td>58.30</td><td>74.00</td><td>-15.70</td><td>51.08</td><td>7.22</td><td>Peak</td><td>100</td><td>22</td></tr><tr><td>5</td><td>17355.00</td><td>61.18</td><td>68.20</td><td>-7.02</td><td>54.30</td><td>6.88</td><td>Peak</td><td>100</td><td>223</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).					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	60.98	68.20	-7.22	60.77	0.21	Peak	142	353	2	5925.00	60.50	68.20	-7.70	59.37	1.13	Peak	142	353	3	11570.00	44.10	54.00	-9.90	36.88	7.22	Average	100	22	4	11570.00	58.30	74.00	-15.70	51.08	7.22	Peak	100	22	5	17355.00	61.18	68.20	-7.02	54.30	6.88	Peak	100	223
	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	60.98	68.20	-7.22	60.77	0.21	Peak	142	353																																																						
2	5925.00	60.50	68.20	-7.70	59.37	1.13	Peak	142	353																																																						
3	11570.00	44.10	54.00	-9.90	36.88	7.22	Average	100	22																																																						
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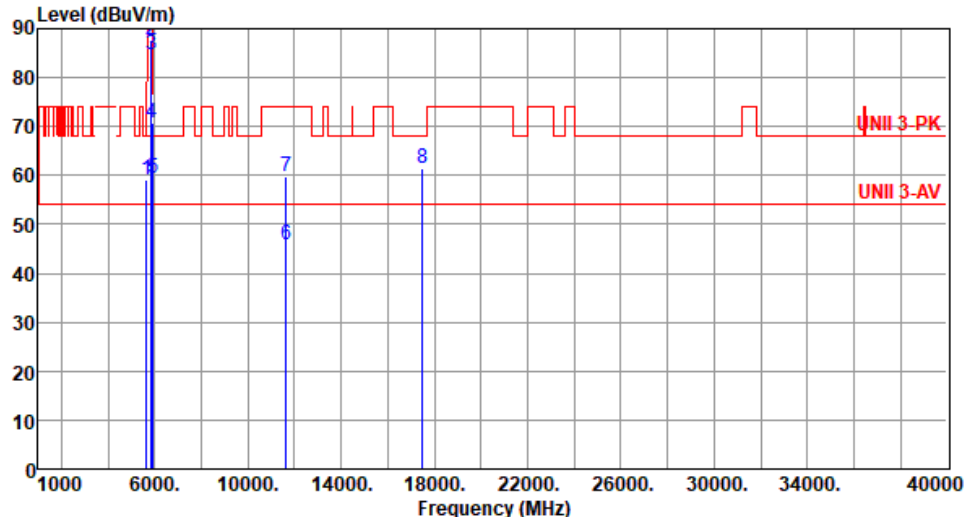


Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		
Test By :Sean Yu- Temperature(°C):22 Humidity(%):63			
Level (dBUV/m) </			



Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Sean Yu- Temperature(°C):22 Humidity(%):63			
Level (dBUV/m)			



Modulation	11a	Test Freq. (MHz)	5825																																																																																										
Polarization	Vertical																																																																																												
Test By :Sean Yu- Temperature(°C):22 Humidity(%):63																																																																																													
Level (dBUV/m)  UNII 3-PK UNII 3-AV <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>58.96</td><td>68.20</td><td>-9.24</td><td>58.75</td><td>0.21</td><td>Peak</td><td>194</td><td>303</td></tr><tr><td>2</td><td>5850.00</td><td>87.65</td><td>122.20</td><td>-34.55</td><td>86.69</td><td>0.96</td><td>Peak</td><td>194</td><td>303</td></tr><tr><td>3</td><td>5855.00</td><td>84.77</td><td>110.80</td><td>-26.03</td><td>83.79</td><td>0.98</td><td>Peak</td><td>194</td><td>303</td></tr><tr><td>4</td><td>5875.00</td><td>70.83</td><td>105.20</td><td>-34.37</td><td>69.81</td><td>1.02</td><td>Peak</td><td>194</td><td>303</td></tr><tr><td>5</td><td>5925.00</td><td>59.35</td><td>68.20</td><td>-8.85</td><td>58.22</td><td>1.13</td><td>Peak</td><td>194</td><td>303</td></tr><tr><td>6</td><td>11650.00</td><td>45.89</td><td>54.00</td><td>-8.11</td><td>39.26</td><td>6.63</td><td>Average</td><td>392</td><td>179</td></tr><tr><td>7</td><td>11650.00</td><td>59.81</td><td>74.00</td><td>-14.19</td><td>53.18</td><td>6.63</td><td>Peak</td><td>392</td><td>179</td></tr><tr><td>8</td><td>17475.00</td><td>61.53</td><td>68.20</td><td>-6.67</td><td>54.16</td><td>7.37</td><td>Peak</td><td>394</td><td>181</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	5650.00	58.96	68.20	-9.24	58.75	0.21	Peak	194	303	2	5850.00	87.65	122.20	-34.55	86.69	0.96	Peak	194	303	3	5855.00	84.77	110.80	-26.03	83.79	0.98	Peak	194	303	4	5875.00	70.83	105.20	-34.37	69.81	1.02	Peak	194	303	5	5925.00	59.35	68.20	-8.85	58.22	1.13	Peak	194	303	6	11650.00	45.89	54.00	-8.11	39.26	6.63	Average	392	179	7	11650.00	59.81	74.00	-14.19	53.18	6.63	Peak	392	179	8	17475.00	61.53	68.20	-6.67	54.16	7.37	Peak	394	181
	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	58.96	68.20	-9.24	58.75	0.21	Peak	194	303																																																																																				
2	5850.00	87.65	122.20	-34.55	86.69	0.96	Peak	194	303																																																																																				
3	5855.00	84.77	110.80	-26.03	83.79	0.98	Peak	194	303																																																																																				
4	5875.00	70.83	105.20	-34.37	69.81	1.02	Peak	194	303																																																																																				
5	5925.00	59.35	68.20	-8.85	58.22	1.13	Peak	194	303																																																																																				
6	11650.00	45.89	54.00	-8.11	39.26	6.63	Average	392	179																																																																																				
7	11650.00	59.81	74.00	-14.19	53.18	6.63	Peak	392	179																																																																																				
8	17475.00	61.53	68.20	-6.67	54.16	7.37	Peak	394	181																																																																																				
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).																																																																																													

Unwanted Emissions (Above 1GHz) for be EHT20-OFDMA

Modulation	be EHT20-OFDMA	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBuV/m)			



Modulation	be EHT20-OFDMA	Test Freq. (MHz)	5180
Polarization	Vertical		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBuV/m)			



Modulation	be EHT20-OFDMA	Test Freq. (MHz)	5200
Polarization	Horizontal		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBuV/m) <			



Modulation	be EHT20-OFDMA	Test Freq. (MHz)	5200
Polarization	Vertical		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBUV/m) </			

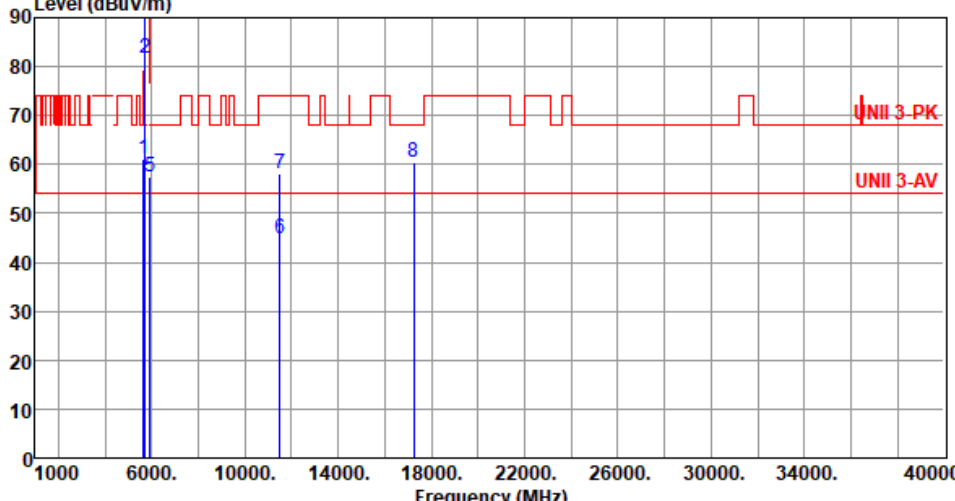


Modulation	be EHT20-OFDMA	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBUV/m)			



Modulation	be EHT20-OFDMA	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBUV/m) </			



Modulation	be EHT20-OFDMA	Test Freq. (MHz)	5745																																																																																										
Polarization	Horizontal																																																																																												
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62																																																																																													
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>61.03</td><td>68.20</td><td>-7.17</td><td>60.82</td><td>0.21</td><td>Peak</td><td>100</td><td>354</td></tr><tr><td>2</td><td>5700.00</td><td>81.84</td><td>105.20</td><td>-23.36</td><td>81.31</td><td>0.53</td><td>Peak</td><td>100</td><td>354</td></tr><tr><td>3</td><td>5720.00</td><td>95.03</td><td>110.80</td><td>-15.77</td><td>94.46</td><td>0.57</td><td>Peak</td><td>100</td><td>354</td></tr><tr><td>4</td><td>5725.00</td><td>101.60</td><td>122.20</td><td>-20.60</td><td>101.02</td><td>0.58</td><td>Peak</td><td>100</td><td>354</td></tr><tr><td>5</td><td>5925.00</td><td>57.44</td><td>68.20</td><td>-10.76</td><td>56.31</td><td>1.13</td><td>Peak</td><td>100</td><td>354</td></tr><tr><td>6</td><td>11490.00</td><td>44.92</td><td>54.00</td><td>-9.08</td><td>37.61</td><td>7.31</td><td>Average</td><td>100</td><td>26</td></tr><tr><td>7</td><td>11490.00</td><td>58.23</td><td>74.00</td><td>-15.77</td><td>50.92</td><td>7.31</td><td>Peak</td><td>100</td><td>26</td></tr><tr><td>8</td><td>17235.00</td><td>60.34</td><td>68.20</td><td>-7.86</td><td>53.65</td><td>6.69</td><td>Peak</td><td>100</td><td>231</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).					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	61.03	68.20	-7.17	60.82	0.21	Peak	100	354	2	5700.00	81.84	105.20	-23.36	81.31	0.53	Peak	100	354	3	5720.00	95.03	110.80	-15.77	94.46	0.57	Peak	100	354	4	5725.00	101.60	122.20	-20.60	101.02	0.58	Peak	100	354	5	5925.00	57.44	68.20	-10.76	56.31	1.13	Peak	100	354	6	11490.00	44.92	54.00	-9.08	37.61	7.31	Average	100	26	7	11490.00	58.23	74.00	-15.77	50.92	7.31	Peak	100	26	8	17235.00	60.34	68.20	-7.86	53.65	6.69	Peak	100	231
	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	61.03	68.20	-7.17	60.82	0.21	Peak	100	354																																																																																				
2	5700.00	81.84	105.20	-23.36	81.31	0.53	Peak	100	354																																																																																				
3	5720.00	95.03	110.80	-15.77	94.46	0.57	Peak	100	354																																																																																				
4	5725.00	101.60	122.20	-20.60	101.02	0.58	Peak	100	354																																																																																				
5	5925.00	57.44	68.20	-10.76	56.31	1.13	Peak	100	354																																																																																				
6	11490.00	44.92	54.00	-9.08	37.61	7.31	Average	100	26																																																																																				
7	11490.00	58.23	74.00	-15.77	50.92	7.31	Peak	100	26																																																																																				
8	17235.00	60.34	68.20	-7.86	53.65	6.69	Peak	100	231																																																																																				

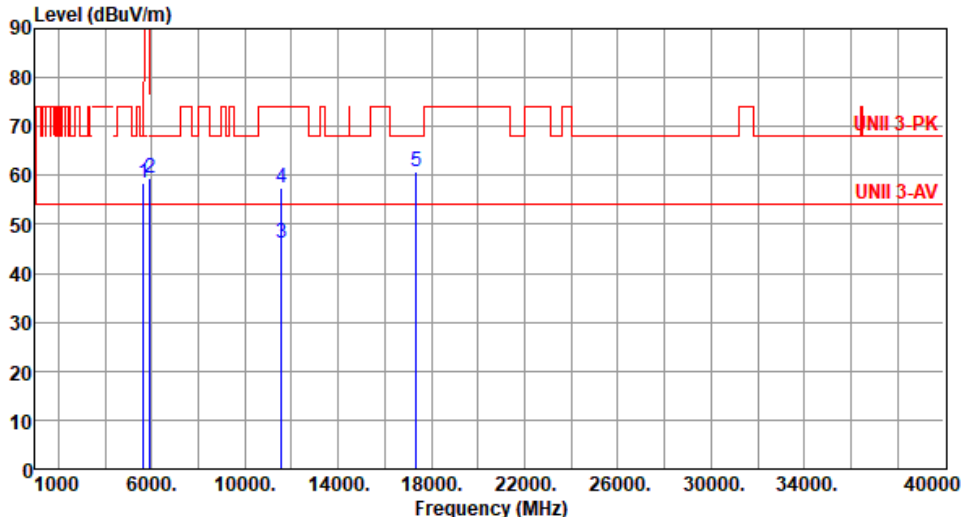


Modulation	be EHT20-OFDMA	Test Freq. (MHz)	5745
Polarization	Vertical		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBUV/m)			



Modulation	be EHT20-OFDMA	Test Freq. (MHz)	5785
Polarization	Horizontal		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBUV/m) </			

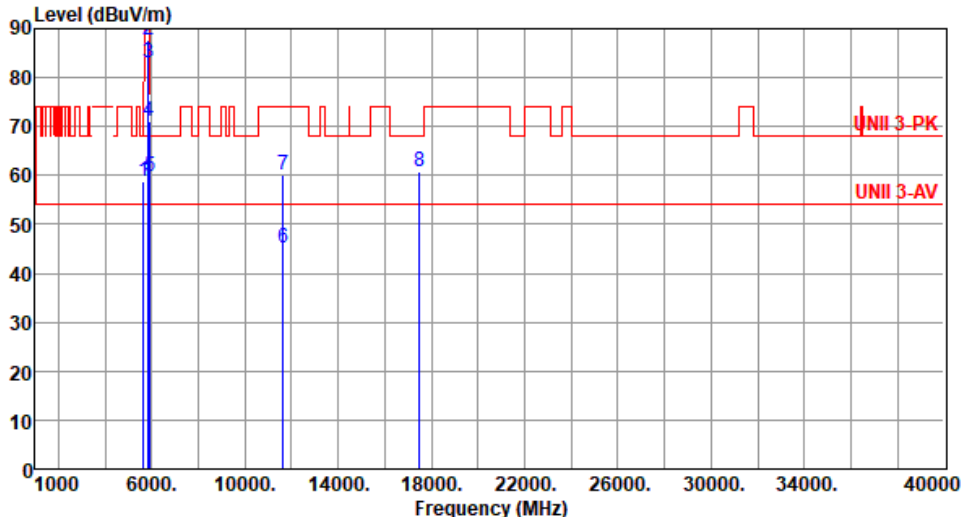


Modulation	be EHT20-OFDMA	Test Freq. (MHz)	5785																																																												
Polarization	Vertical																																																														
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62																																																															
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>58.37</td><td>68.20</td><td>-9.83</td><td>58.16</td><td>0.21</td><td>Peak</td><td>127</td><td>296</td></tr><tr><td>2</td><td>5925.00</td><td>59.33</td><td>68.20</td><td>-8.87</td><td>58.20</td><td>1.13</td><td>Peak</td><td>127</td><td>296</td></tr><tr><td>3</td><td>11570.00</td><td>46.14</td><td>54.00</td><td>-7.86</td><td>38.92</td><td>7.22</td><td>Average</td><td>190</td><td>169</td></tr><tr><td>4</td><td>11570.00</td><td>57.54</td><td>74.00</td><td>-16.46</td><td>50.32</td><td>7.22</td><td>Peak</td><td>190</td><td>169</td></tr><tr><td>5</td><td>17355.00</td><td>60.89</td><td>68.20</td><td>-7.31</td><td>54.01</td><td>6.88</td><td>Peak</td><td>100</td><td>54</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	5650.00	58.37	68.20	-9.83	58.16	0.21	Peak	127	296	2	5925.00	59.33	68.20	-8.87	58.20	1.13	Peak	127	296	3	11570.00	46.14	54.00	-7.86	38.92	7.22	Average	190	169	4	11570.00	57.54	74.00	-16.46	50.32	7.22	Peak	190	169	5	17355.00	60.89	68.20	-7.31	54.01	6.88	Peak	100	54
	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).																																																															



Modulation	be EHT20-OFDMA	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBUV/m) <			



Modulation	be EHT20-OFDMA	Test Freq. (MHz)	5825						
Polarization	Vertical								
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62									
Level (dBuV/m)  Frequency (MHz)									
	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	58.75	68.20	-9.45	58.54	0.21	Peak	100	326
2	5850.00	87.77	122.20	-34.43	86.81	0.96	Peak	100	326
3	5855.00	83.05	110.80	-27.75	82.07	0.98	Peak	100	326
4	5875.00	71.06	105.20	-34.14	70.04	1.02	Peak	100	326
5	5925.00	59.94	68.20	-8.26	58.81	1.13	Peak	100	326
6	11650.00	45.24	54.00	-8.76	38.61	6.63	Average	391	188
7	11650.00	60.17	74.00	-13.83	53.54	6.63	Peak	391	188
8	17475.00	60.86	68.20	-7.34	53.49	7.37	Peak	393	188

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).

Unwanted Emissions (Above 1GHz) for be EHT40-OFDMA

Modulation	be EHT40-OFDMA	Test Freq. (MHz)	5190																																																												
Polarization	Horizontal																																																														
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62																																																															
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>53.00</td><td>54.00</td><td>-1.00</td><td>52.67</td><td>0.33</td><td>Average</td><td>321</td><td>8</td></tr><tr><td>2</td><td>5150.00</td><td>70.10</td><td>74.00</td><td>-3.90</td><td>69.77</td><td>0.33</td><td>Peak</td><td>321</td><td>8</td></tr><tr><td>3</td><td>10380.00</td><td>55.62</td><td>68.20</td><td>-12.58</td><td>48.27</td><td>7.35</td><td>Peak</td><td>100</td><td>29</td></tr><tr><td>4</td><td>15570.00</td><td>43.28</td><td>54.00</td><td>-10.72</td><td>39.33</td><td>3.95</td><td>Average</td><td>100</td><td>74</td></tr><tr><td>5</td><td>15570.00</td><td>56.51</td><td>74.00</td><td>-17.49</td><td>52.56</td><td>3.95</td><td>Peak</td><td>100</td><td>74</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).					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	53.00	54.00	-1.00	52.67	0.33	Average	321	8	2	5150.00	70.10	74.00	-3.90	69.77	0.33	Peak	321	8	3	10380.00	55.62	68.20	-12.58	48.27	7.35	Peak	100	29	4	15570.00	43.28	54.00	-10.72	39.33	3.95	Average	100	74	5	15570.00	56.51	74.00	-17.49	52.56	3.95	Peak	100	74
	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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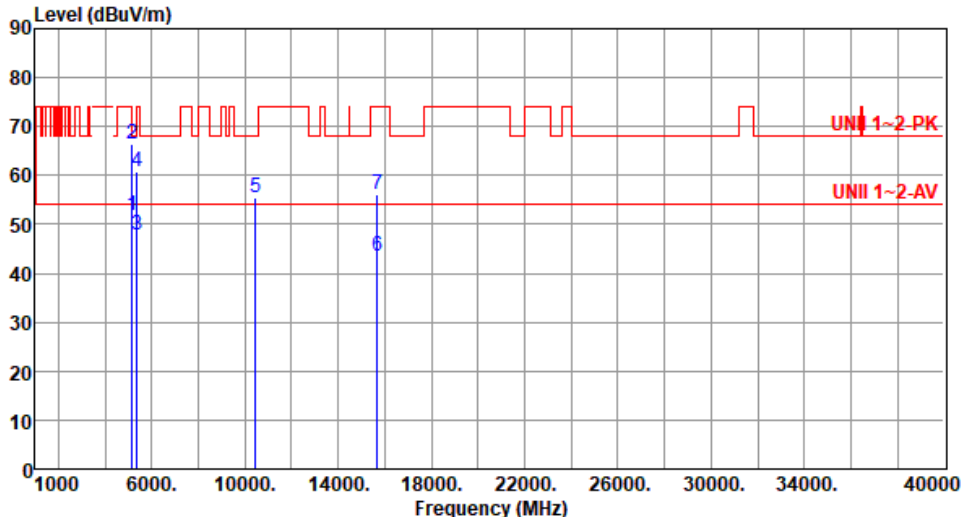


Modulation	be EHT40-OFDMA	Test Freq. (MHz)	5190
Polarization	Vertical		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBuV/m) <			



Modulation	be EHT40-OFDMA	Test Freq. (MHz)	5230
Polarization	Horizontal		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBUV/m) <			



Modulation	be EHT40-OFDMA	Test Freq. (MHz)	5230																																																																																
Polarization	Vertical																																																																																		
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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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Modulation	be EHT40-OFDMA	Test Freq. (MHz)	5755
Polarization	Horizontal		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBUV/m) </			

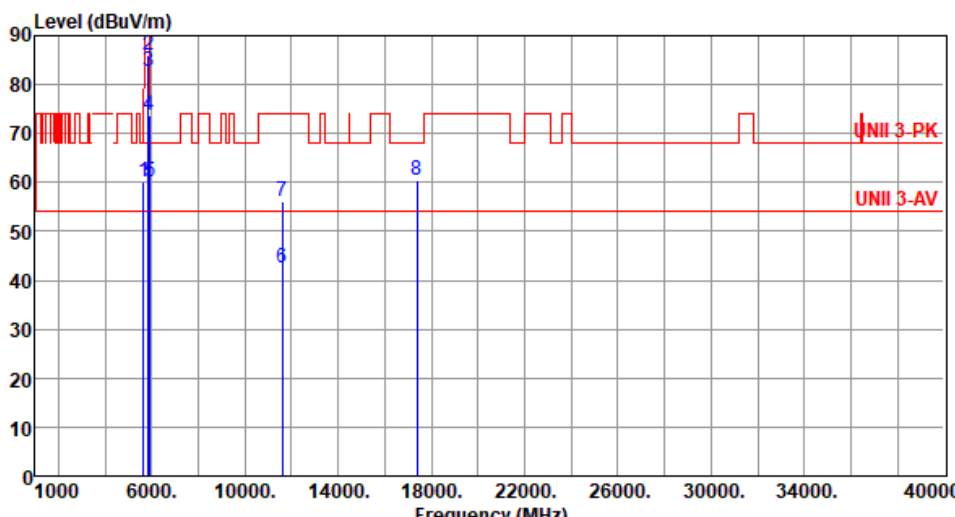


Modulation	be EHT40-OFDMA	Test Freq. (MHz)	5755
Polarization	Vertical		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62			
Level (dBUV/m) <			

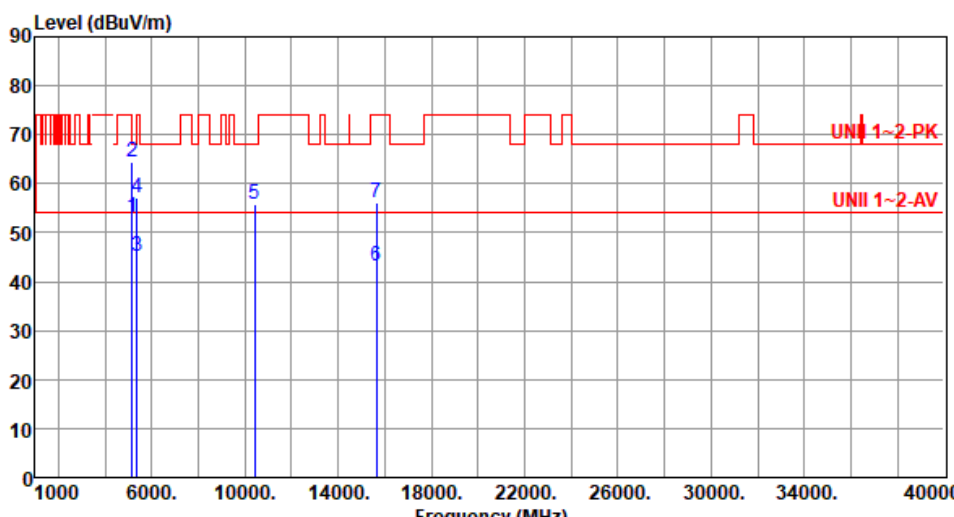


Modulation	be EHT40-OFDMA	Test Freq. (MHz)	5795																																																																																										
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	be EHT40-OFDMA	Test Freq. (MHz)	5795																																																																																										
Polarization	Vertical																																																																																												
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62																																																																																													
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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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Unwanted Emissions (Above 1GHz) for be EHT80-OFDMA

Modulation	be EHT80-OFDMA	Test Freq. (MHz)	5210																																																																																
Polarization	Horizontal																																																																																		
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62																																																																																			
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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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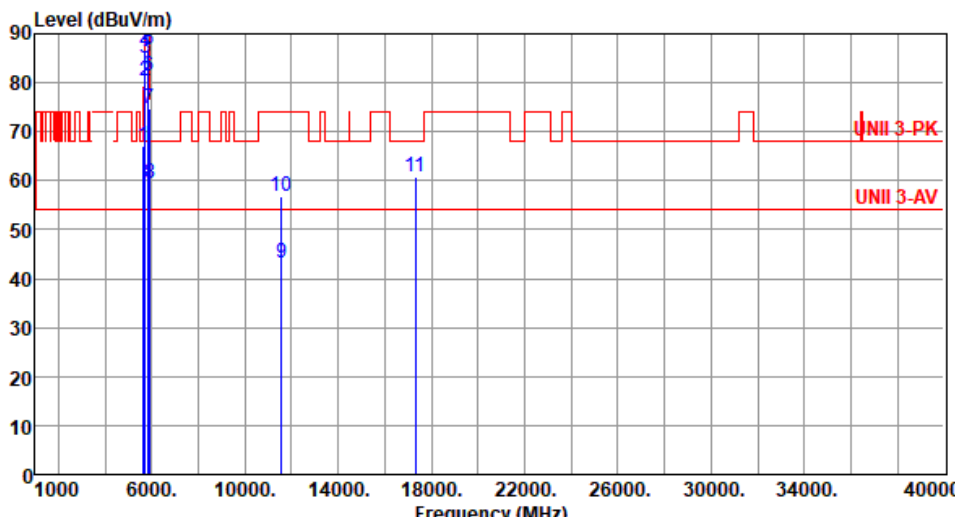


Modulation	be EHT80-OFDMA	Test Freq. (MHz)	5210																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Sean Yu- Temperature(°C):23 Humidity(%):62																																																																																																							
Level (dBuV/m) <table><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></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></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>5150.00</td><td>52.43</td><td>54.00</td><td>-1.57</td><td>52.10</td><td>0.33</td><td>Average</td><td>150</td><td>24</td></tr><tr><td>2</td><td>5150.00</td><td>62.14</td><td>74.00</td><td>-11.86</td><td>61.81</td><td>0.33</td><td>Peak</td><td>150</td><td>24</td></tr><tr><td>3</td><td>5350.00</td><td>45.46</td><td>54.00</td><td>-8.54</td><td>45.71</td><td>-0.25</td><td>Average</td><td>150</td><td>24</td></tr><tr><td>4</td><td>5350.00</td><td>57.22</td><td>74.00</td><td>-16.78</td><td>57.47</td><td>-0.25</td><td>Peak</td><td>150</td><td>24</td></tr><tr><td>5</td><td>10420.00</td><td>55.71</td><td>68.20</td><td>-12.49</td><td>48.38</td><td>7.33</td><td>Peak</td><td>100</td><td>92</td></tr><tr><td>6</td><td>15630.00</td><td>43.46</td><td>54.00</td><td>-10.54</td><td>39.54</td><td>3.92</td><td>Average</td><td>100</td><td>155</td></tr><tr><td>7</td><td>15630.00</td><td>55.79</td><td>74.00</td><td>-18.21</td><td>51.87</td><td>3.92</td><td>Peak</td><td>100</td><td>155</td></tr></table>					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	52.43	54.00	-1.57	52.10	0.33	Average	150	24	2	5150.00	62.14	74.00	-11.86	61.81	0.33	Peak	150	24	3	5350.00	45.46	54.00	-8.54	45.71	-0.25	Average	150	24	4	5350.00	57.22	74.00	-16.78	57.47	-0.25	Peak	150	24	5	10420.00	55.71	68.20	-12.49	48.38	7.33	Peak	100	92	6	15630.00	43.46	54.00	-10.54	39.54	3.92	Average	100	155	7	15630.00	55.79	74.00	-18.21	51.87	3.92	Peak	100	155
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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Modulation	be EHT80-OFDMA	Test Freq. (MHz)	5775																																																																																																																								
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Frequency: 5200 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	3.84	4.00	4.19	3.68
T20°CVmin	4.70	4.72	5.06	5.26
T40°CVnom	5.53	5.40	5.57	5.49
T30°CVnom	3.34	3.27	3.20	3.84
T20°CVnom	4.00	4.83	4.44	4.08
T10°CVnom	2.07	2.35	3.61	2.61
T0°CVnom	2.14	2.55	3.79	2.54
Vnom [V]: 120	Vmax [V]: 138		Vmin [V]: 102	
Tnom [°C]: 20	Tmax [°C]: 40		Tmin [°C]: 0	

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	3.69	4.01	3.80	4.05
T20°CVmin	4.19	4.91	4.63	3.78
T40°CVnom	6.49	6.99	7.07	6.76
T30°CVnom	3.05	3.33	3.53	3.31
T20°CVnom	3.49	3.32	4.19	3.52
T10°CVnom	2.20	2.37	2.00	2.52
T0°CVnom	2.21	2.43	2.57	2.43
Vnom [V]: 120	Vmax [V]: 138		Vmin [V]: 102	
Tnom [°C]: 20	Tmax [°C]: 40		Tmin [°C]: 0	

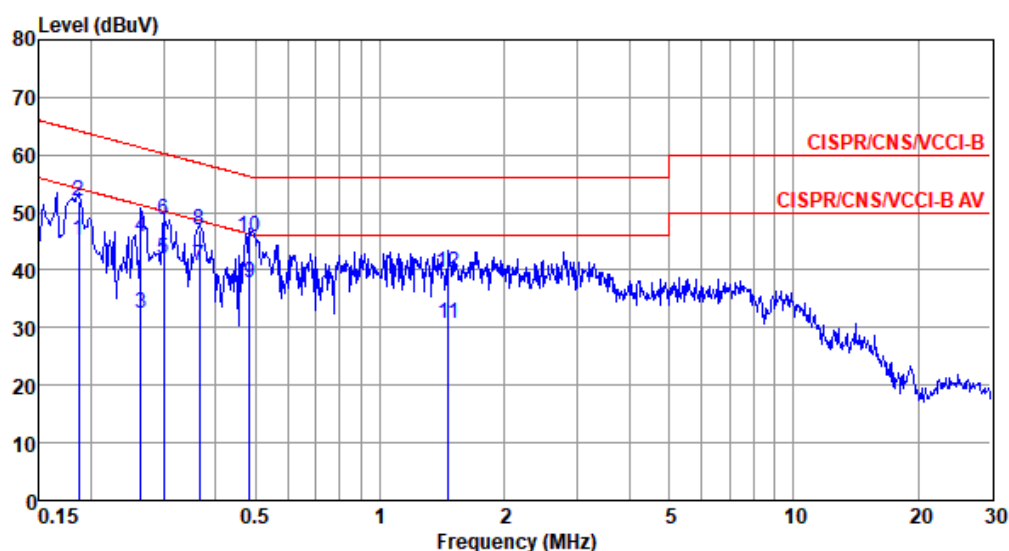


Modulation Mode	be EHT40-OFDMA	Test Freq. (MHz)	5230
Power Phase	Line		

Test by : Brad Wu

Temperature: 22°C

Humidity: 64%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.186	45.15	54.20	-9.05	35.23	9.62	0.06	0.24	Average
2	0.186	51.97	64.20	-12.23	42.05	9.62	0.06	0.24	QP
3	0.264	32.59	51.29	-18.70	22.62	9.62	0.07	0.28	Average
4	0.264	45.65	61.29	-15.64	35.68	9.62	0.07	0.28	QP
5	0.300	41.90	50.24	-8.34	31.91	9.62	0.07	0.30	Average
6	0.300	48.77	60.24	-11.47	38.78	9.62	0.07	0.30	QP
7*	0.365	40.85	48.61	-7.76	30.83	9.62	0.08	0.32	Average
8	0.365	46.80	58.61	-11.81	36.78	9.62	0.08	0.32	QP
9	0.484	37.72	46.27	-8.55	27.68	9.62	0.08	0.34	Average
10	0.484	45.79	56.27	-10.48	35.75	9.62	0.08	0.34	QP
11	1.464	30.67	46.00	-15.33	20.57	9.63	0.10	0.37	Average
12	1.464	39.48	56.00	-16.52	29.38	9.63	0.10	0.37	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) - Limit Line (dBUV).

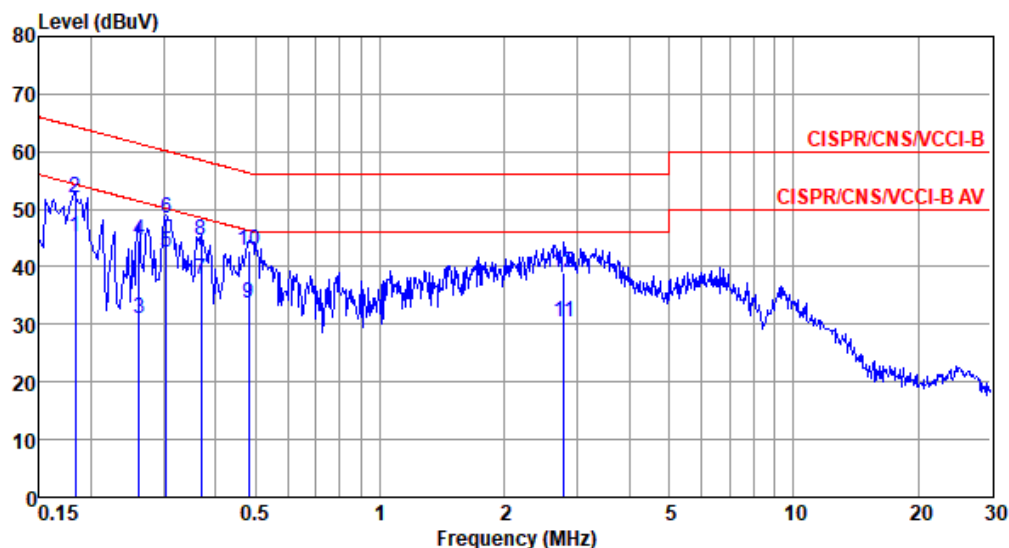


Modulation Mode	be EHT40-OFDMA	Test Freq. (MHz)	5230
Power Phase	Neutral		

Test by : Brad Wu

Temperature: 22°C

Humidity: 64%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.183	45.12	54.33	-9.21	35.26	9.63	0.07	0.16	Average
2	0.183	51.88	64.33	-12.45	42.02	9.63	0.07	0.16	QP
3	0.262	30.98	51.38	-20.40	21.08	9.63	0.07	0.20	Average
4	0.262	44.72	61.38	-16.66	34.82	9.63	0.07	0.20	QP
5*	0.303	42.45	50.15	-7.70	32.54	9.62	0.07	0.22	Average
6	0.303	48.27	60.15	-11.88	38.36	9.62	0.07	0.22	QP
7	0.369	37.92	48.52	-10.60	27.98	9.62	0.08	0.24	Average
8	0.369	44.48	58.52	-14.04	34.54	9.62	0.08	0.24	QP
9	0.481	33.78	46.32	-12.54	23.82	9.62	0.08	0.26	Average
10	0.481	42.95	56.32	-13.37	32.99	9.62	0.08	0.26	QP
11	2.779	30.53	46.00	-15.47	20.38	9.64	0.14	0.37	Average
12	2.779	38.96	56.00	-17.04	28.81	9.64	0.14	0.37	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

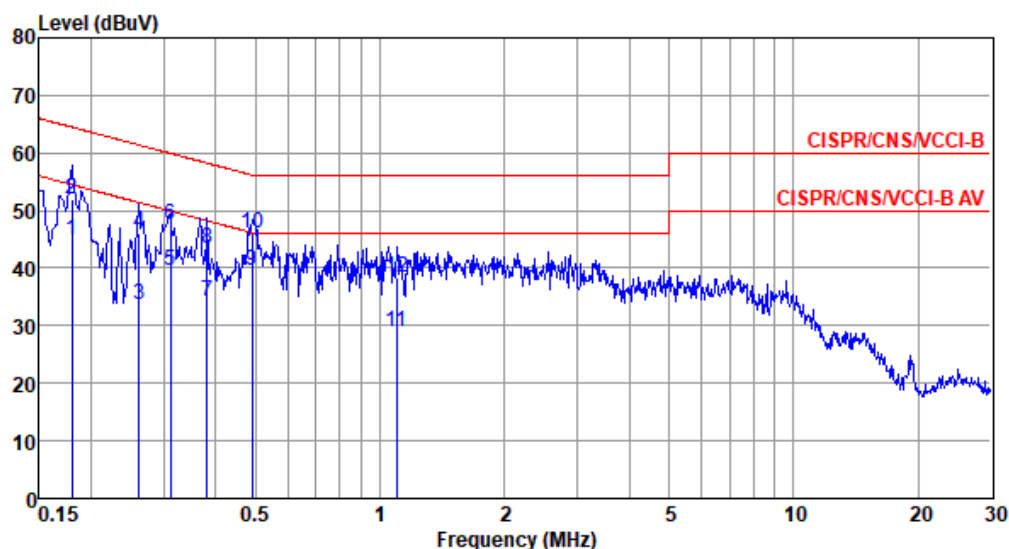


Modulation Mode	be EHT40-OFDMA	Test Freq. (MHz)	5755
Power Phase	Line		

Test by : Brad Wu

Temperature: 22°C

Humidity: 64%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.180	44.90	54.50	-9.60	34.98	9.62	0.07	0.23	Average
2	0.180	52.05	64.50	-12.45	42.13	9.62	0.07	0.23	QP
3	0.262	33.79	51.38	-17.59	23.82	9.62	0.07	0.28	Average
4	0.262	46.08	61.38	-15.30	36.11	9.62	0.07	0.28	QP
5	0.312	39.66	49.93	-10.27	29.67	9.62	0.07	0.30	Average
6	0.312	47.61	59.93	-12.32	37.62	9.62	0.07	0.30	QP
7	0.381	34.17	48.25	-14.08	24.15	9.62	0.08	0.32	Average
8	0.381	43.37	58.25	-14.88	33.35	9.62	0.08	0.32	QP
9*	0.491	39.70	46.14	-6.44	29.66	9.62	0.08	0.34	Average
10	0.491	46.08	56.14	-10.06	36.04	9.62	0.08	0.34	QP
11	1.094	28.95	46.00	-17.05	18.87	9.63	0.09	0.36	Average
12	1.094	38.40	56.00	-17.60	28.32	9.63	0.09	0.36	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

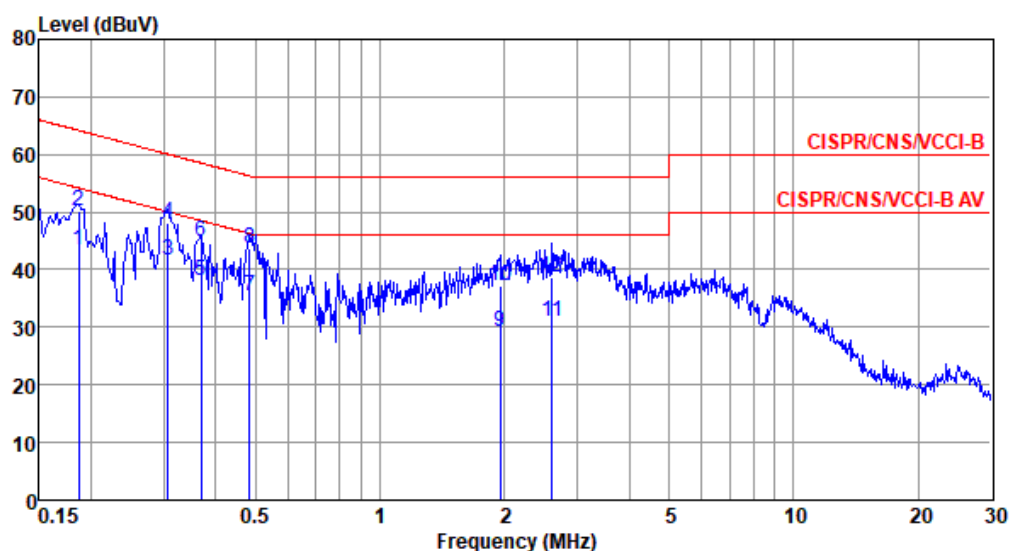
2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

Modulation Mode	be EHT40-OFDMA	Test Freq. (MHz)	5755
Power Phase	Neutral		

Test by : Brad Wu

Temperature: 22°C

Humidity: 64%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.186	43.47	54.20	-10.73	33.62	9.63	0.06	0.16	Average
2	0.186	50.26	64.20	-13.94	40.41	9.63	0.06	0.16	QP
3*	0.307	41.58	50.06	-8.48	31.67	9.62	0.07	0.22	Average
4	0.307	48.12	60.06	-11.94	38.21	9.62	0.07	0.22	QP
5	0.369	38.05	48.52	-10.47	28.11	9.62	0.08	0.24	Average
6	0.369	44.76	58.52	-13.76	34.82	9.62	0.08	0.24	QP
7	0.484	35.55	46.27	-10.72	25.59	9.62	0.08	0.26	Average
8	0.484	43.68	56.27	-12.59	33.72	9.62	0.08	0.26	QP
9	1.949	29.32	46.00	-16.68	19.23	9.64	0.11	0.34	Average
10	1.949	37.24	56.00	-18.76	27.15	9.64	0.11	0.34	QP
11	2.608	31.14	46.00	-14.86	21.00	9.64	0.14	0.36	Average
12	2.608	38.62	56.00	-17.38	28.48	9.64	0.14	0.36	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

Note 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).