

RF MEASUREMENT REPORT

FCC ID: 2AXJ4BE95
Applicant: TP-Link Corporation Limited
Product: BE33000 Whole Home Mesh Wi-Fi 7 System
Model No.: Deco BE95
Brand Name: tp-link
FCC Classification: Unlicensed National Information Infrastructure (NII)
FCC Rule Part(s): Part 15 Subpart E (Section 15.407)
Result: Complies
Received Date: 2023-01-03
Test Date: 2023-01-10 ~ 2023-02-06

Reviewed By:

Kevin Guo

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB789033. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2212RSU044-U2	V01	Initial Report	2023-03-20	Valid

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1. General Information

1.1. Applicant

TP-Link Corporation Limited

Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong

1.2. Manufacturer

TP-Link Corporation Limited

Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong

1.3. Testing Facility

<input checked="" type="checkbox"/>	Test Site – MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Accreditations
	A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001 VCCI: <input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020 <input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104
<input type="checkbox"/>	Test Site – MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
<input type="checkbox"/>	Test Site – MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: L3261-190725 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	BE33000 Whole Home Mesh Wi-Fi 7 System
Model No.	Deco BE95
EUT Identification No.	20230103Sample#01 (Conducted) 20230103Sample#02 (Radiated and AC conducted Emission)
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Antenna Information	Refer to selection 1.7
Power Type	By Adapter
Accessory	
Adapter	Model: T150500-2-DT INPYUT: 100-240~50/60Hz 2.0A OUTPUT: DC15.0V, 5.0A
Note: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Frequency Range	For 802.11a/n-HT20/ac-VHT20/ax-HE20/be-EHT20: 5180~5240MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40/ax-HE40/be-EHT40: 5190~5230MHz, 5755~5795MHz For 802.11ac-VHT80/ax-HE80/be-EHT80: 5210MHz, 5775MHz
Type of Modulation	802.11a/n/ac: OFDM 802.11ax/be: OFDMA
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 600Mbps 802.11ac: up to 1733.4Mbps 802.11ax: up to 2042Mbps 802.11be: up to 2884Mbps

1.6. Working Frequencies

802.11a/n-HT20/ac-VHT20/ax-HE20/be-EHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	149	5745 MHz	153	5765 MHz
157	5785 MHz	161	5805 MHz	165	5825 MHz

802.11n-HT40/ac-VHT40/ax-HE40/be-EHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz
159	5795 MHz	--	--	--	--

802.11ac-VHT80/ax-HE80/be-EHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	155	5775 MHz	--	--

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Tx Paths	Number of spatial streams	Antenna Gain (dBi)				CDD Directional Gain (dBi)	
				Ant 0	Ant 1	Ant 2	Ant 3	For Power	For PSD
Dipole Antenna	5150 ~ 5250 5725 ~ 5850	4	1	2.59	2.63	2.83	2.97	2.97	8.99

Remark:

- The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

Directional gain = Max. G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB;

- For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB for $N_{ANT} \leq 4$;

- The information as above is from the antenna specifications.

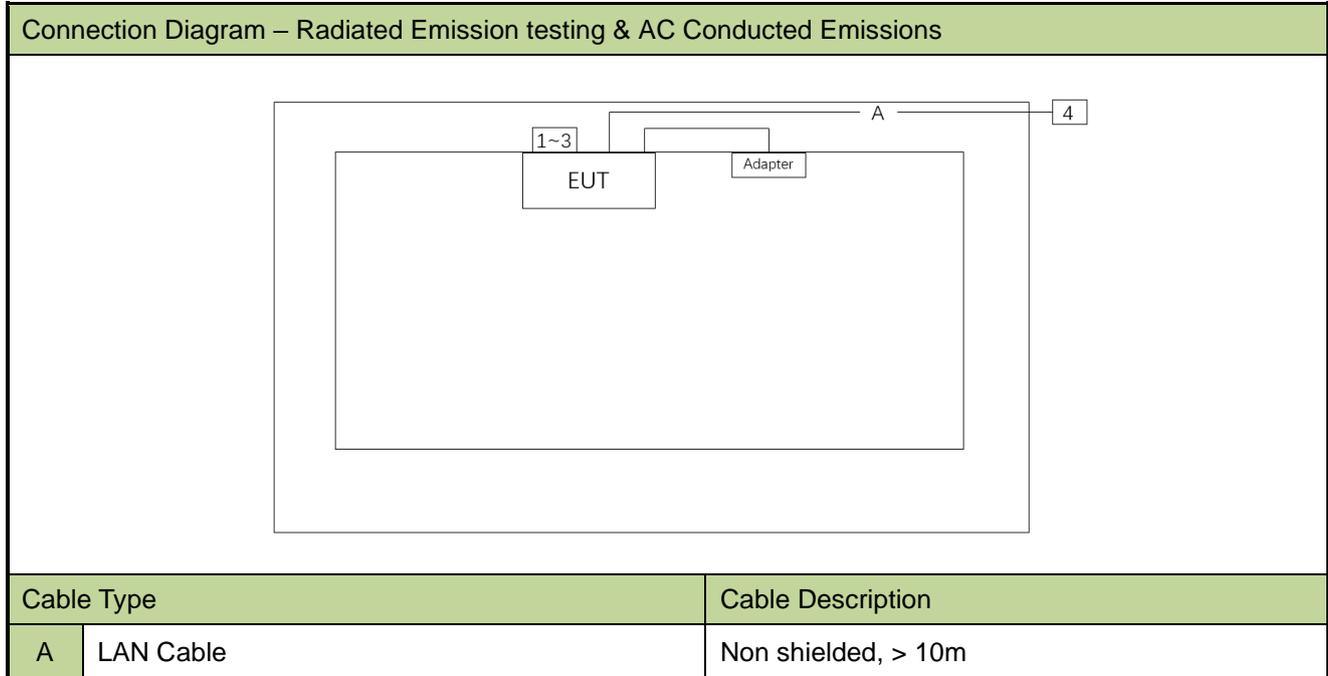
2. Test Configuration

2.1. Test Mode

CDD Mode
Mode 1: Transmit by 802.11a _N _{SS} =1 (6Mbps)
Mode 2: Transmit by 802.11ac-VHT20 _N _{SS} =1 (MCS0)
Mode 3: Transmit by 802.11ac-VHT40 _N _{SS} =1 (MCS0)
Mode 4: Transmit by 802.11ac-VHT80 _N _{SS} =1 (MCS0)
Mode 5: Transmit by 802.11ax-HE20 _N _{SS} =1 (MCS0)
Mode 6: Transmit by 802.11ax-HE40 _N _{SS} =1 (MCS0)
Mode 7: Transmit by 802.11ax-HE80 _N _{SS} =1 (MCS0)
Mode 8: Transmit by 802.11be-EHT20 _N _{SS} =1 (MCS0)
Mode 9: Transmit by 802.11be-EHT40 _N _{SS} =1 (MCS0)
Mode 10: Transmit by 802.11be-EHT80 _N _{SS} =1 (MCS0)
<p>Note:</p> <ol style="list-style-type: none"> For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. For CDD mode, this device supports 4 N_{SS} and power level is the same of spatial multiplexing. The worst case is N_{SS}=1. EUT supports one configuration only in 802.11ax/be full RU mode. Due to the same modulation between 802.11n and 802.11ac, so 802.11n-HT20 and HT40 are covered by 802.11ac-VHT20 and VHT40 in this report, meanwhile, power setting for 802.11n-HT20 and HT40 will not be greater than 802.11ac-VHT20 and VHT40. As Designated by manufacturer, the lowest data rate was the worst condition, so all the tests were done with lowest data rate.

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.



2.3. Test System Details

Product	Manufacturer	Model No.
1~3	Simulated load	N/A
4	Notebook	Lenovo
		E431

2.4. Test Software

The test utility software used during testing was “QSPR”, and the version was 5.0-00202.

Note: Final power setting please refer to operational description.

2.5. Applied Standards

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

- FCC Part 15.407
- KDB 789033 D02v02r01
- KDB 662911 D01v02r01
- ANSI C63.10-2013

2.6. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2023-12-28	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2023-08-22	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2023-05-08	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2023-06-21	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2023-04-21	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE06403	1 year	2023-06-06	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2023-12-28	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2023-11-01	WZ-AC1
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2023-09-29	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2023-11-05	WZ-AC1
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2024-01-12	WZ-AC1
Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2023-04-06	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2023-06-06	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2023-06-04	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11090	1 year	2023-06-09	WZ
Attenuator	MVE	MVE2213	MRTSUE11081	1 year	2023-06-09	WZ

Software	Version	Function
EMI Software	V3.0.0	EMI Test Software
Controller_MF 7802	2.03C	RE Antenna & Turntable
BenchVue Power Meter	2018.1	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.59dB Coplanar: 9kHz~30MHz: 2.60dB Horizontal: 30MHz~200MHz: 3.85dB 200MHz~1GHz: 4.36dB 1GHz~40GHz: 4.98dB Vertical: 30MHz~200MHz: 4.06dB 200MHz~1GHz: 5.28dB 1GHz~40GHz: 4.91dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 2.3dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.5dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 2.3dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 3.2%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(a)	26dB Bandwidth	Conducted	Pass
15.407(e)	6dB Bandwidth		Pass
15.407(a)(1)(ii), (3)(i)	Maximum Conducted Output Power		Pass
15.407(a)(1)(ii), (3)(i), (12)	Peak Power Spectral Density		Pass
15.407(g)	Frequency Stability		Pass
15.407(b)(1), (4)(i)	Undesirable Emissions		Pass
15.205, 15.209 15.407(b)(9), (10), (11)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Remark:

- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- The test results shown in the following sections represent the worst-case emissions.

6.2. 26dB & 99% Bandwidth Measurement

6.2.1. Test Limit

N/A

6.2.2. Test Procedure

KDB 789033 D02v02r01- Section II)C)1) (26dB Bandwidth)

KDB 789033 D02v02r01- Section II)D) (99% Bandwidth)

6.2.3. Test Setting

26dB Bandwidth

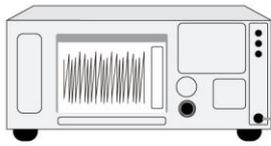
1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 1% to 5% of the OBW
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times to 5 times the OBW
5. Detector = peak
6. Trace mode = max hold
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument.

6.2.4. Test Setup

Spectrum Analyzer



DC Block
&
Attenuator



6.2.5. Test Result

Refer to Appendix A.2.

6.3. 6dB Bandwidth Measurement

6.3.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

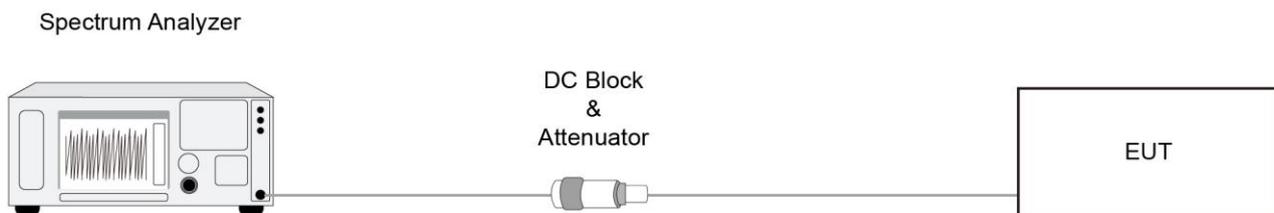
6.3.2. Test Procedure

KDB 789033 D02v02r01- Section II)C)2)

6.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. 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.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Output Power Measurement

6.4.1. Test Limit

For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

6.4.2. Test Procedure

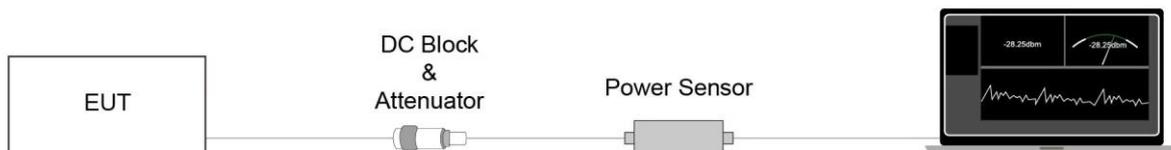
KDB 789033D02v02r01- Section II)E)3)b) Method PM-G

6.4.3. Test Setting

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. Power Spectral Density Measurement

6.5.1. Test Limit

For the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

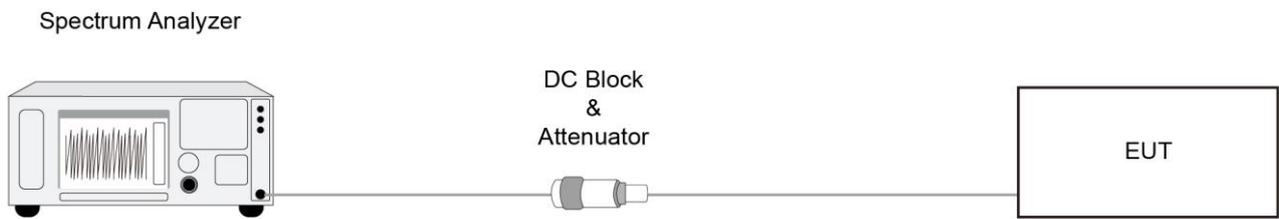
6.5.2. Test Procedure

KDB 789033 D02v02r01-Section II)F)

6.5.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz (510kHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz)
4. VBW = 3 × RBW
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
11. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \cdot \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Frequency Stability Measurement

6.6.1. Test Limit

Manufactures 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.

6.6.2. Test Procedure

Frequency Stability Under Temperature Variations:

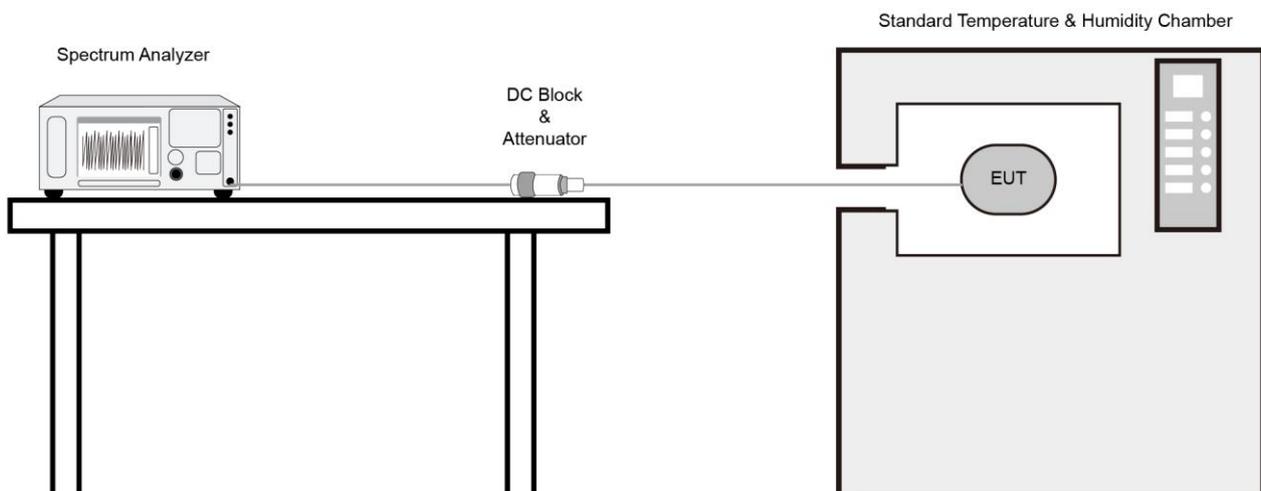
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

6.6.3. Test Setup



6.6.4. Test Result

Refer to Appendix A.6.

6.7. Radiated Spurious Emission Measurement

6.7.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.7.2. Test Procedure

KDB 789033 D02v02r01- Section II)G)

6.7.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

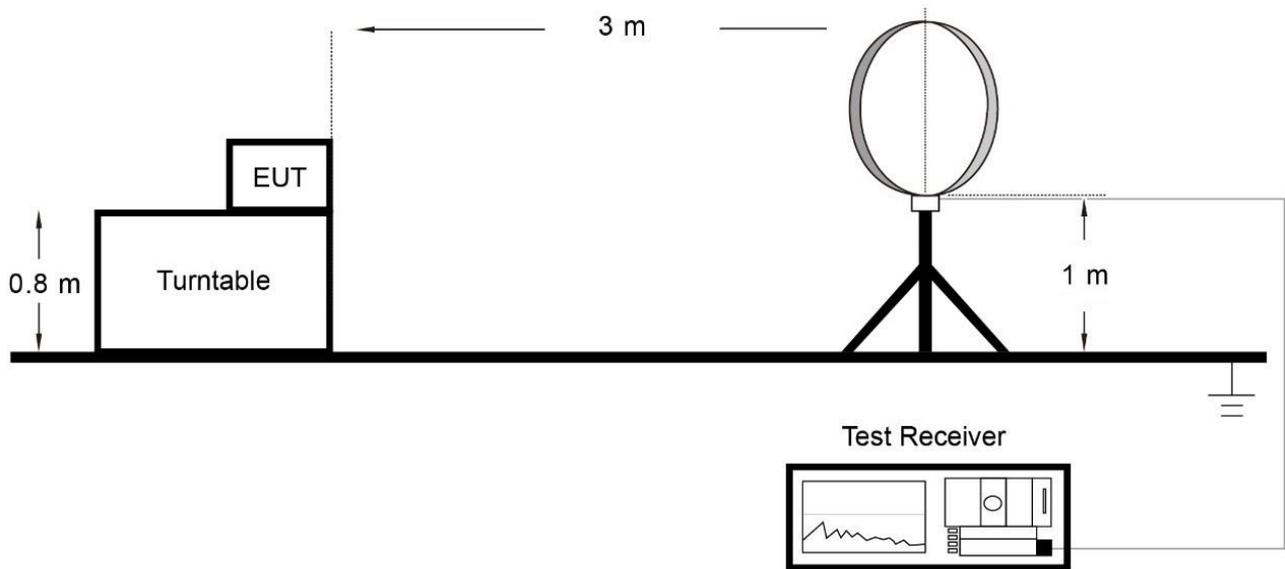
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

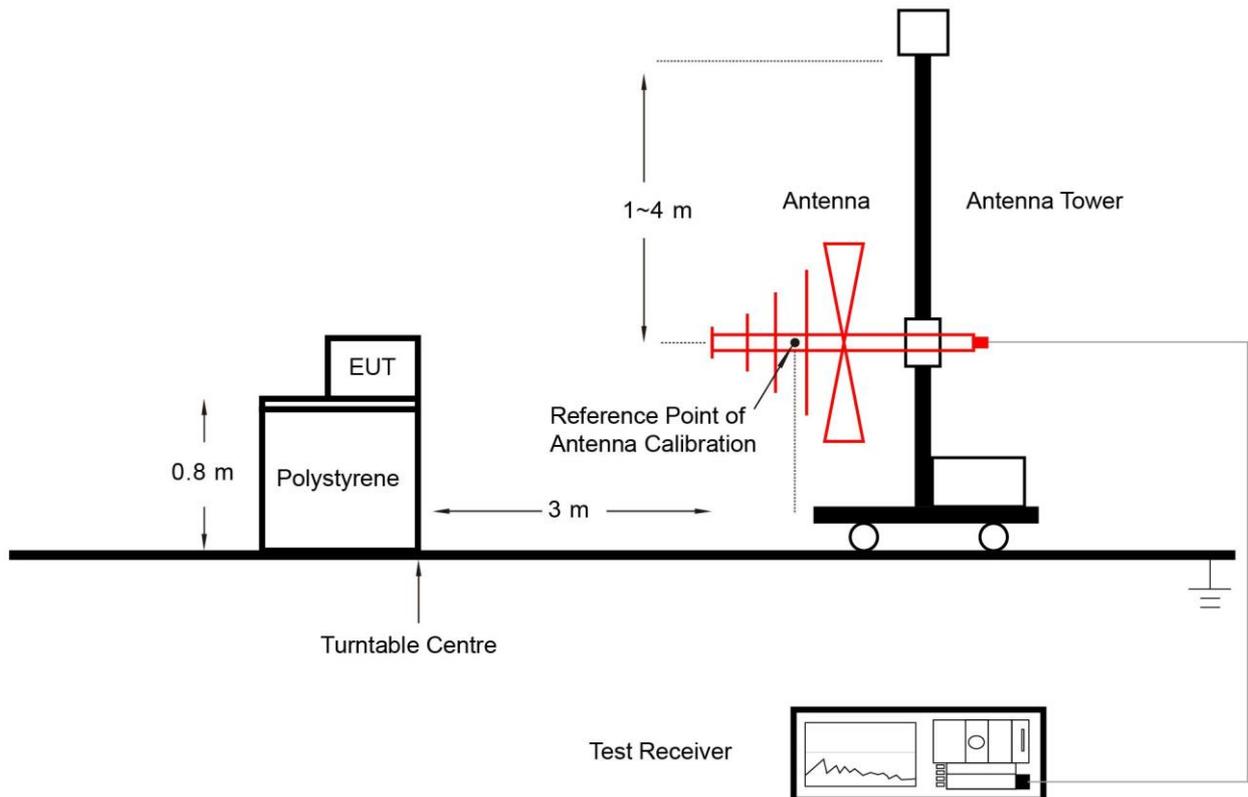
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.7.4. Test Setup

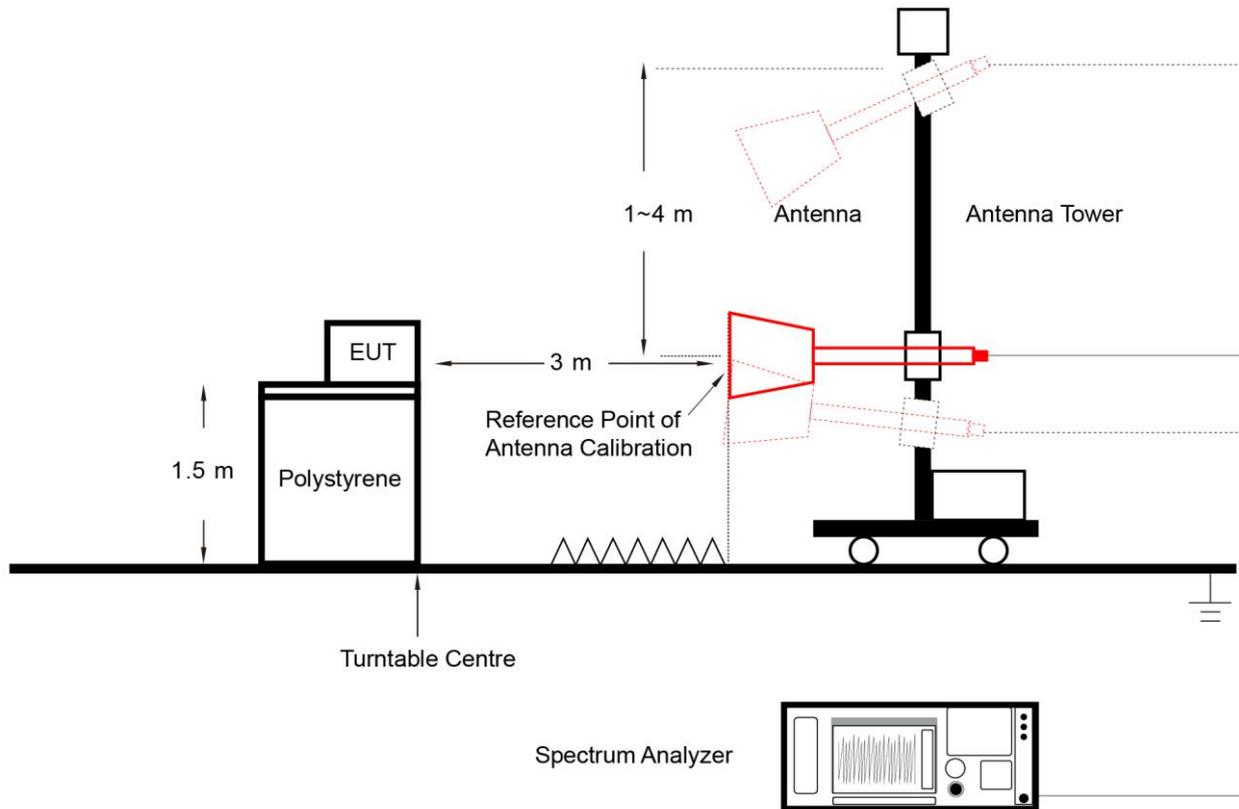
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.7.5. Test Result

Refer to Appendix A.7.

6.8. Radiated Restricted Band Edge Measurement

6.8.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

For 15.407(b) requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: 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.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.8.2. Test Procedure

KDB 789033 D02v02r01- Section II)G)

6.8.3. Test Setting

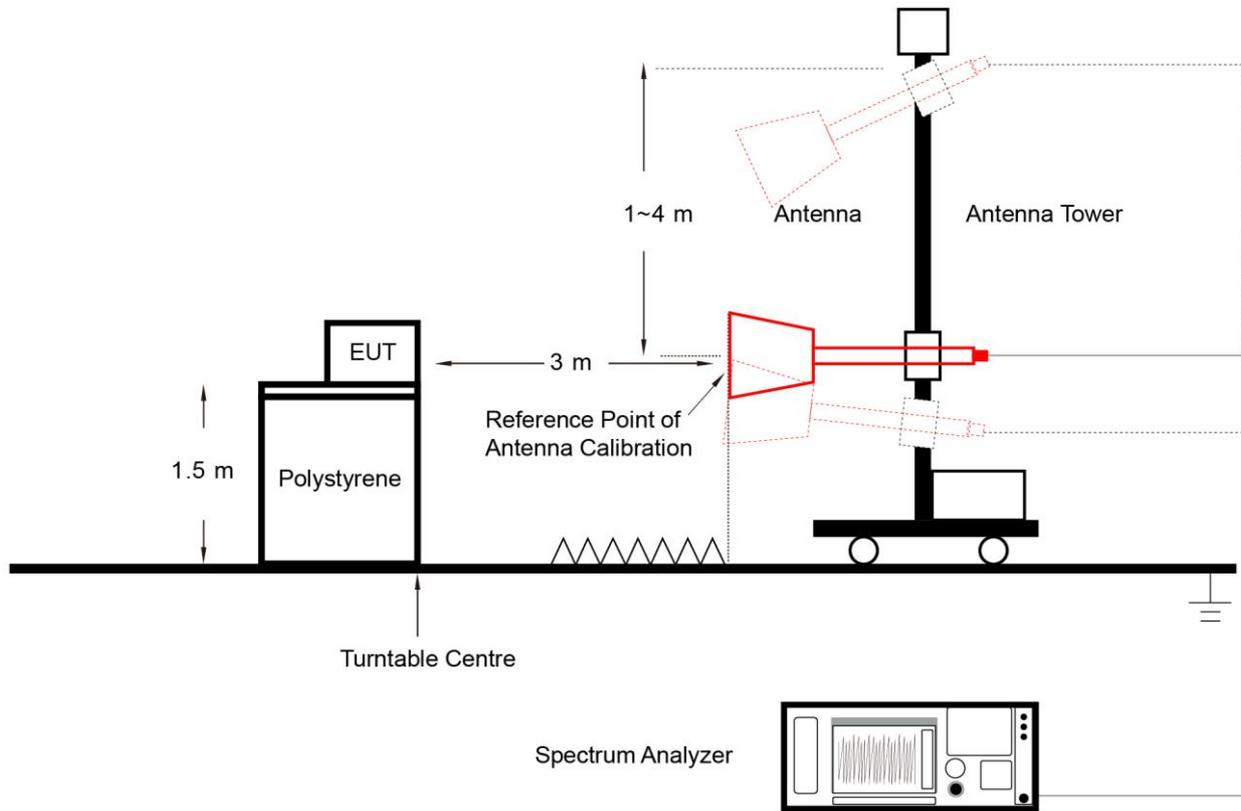
Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10Hz
4. If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.8.4. Test Setup



6.8.5. Test Result

Refer to Appendix A.8.

6.9. AC Conducted Emissions Measurement

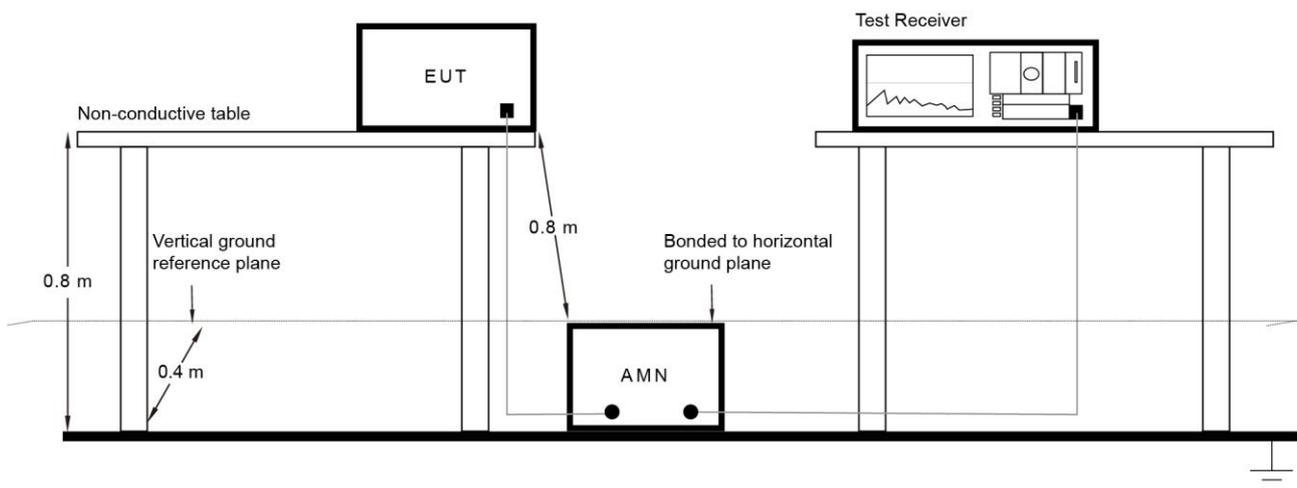
6.9.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.9.2. Test Setup



6.9.3. Test Result

Refer to Appendix A.9.

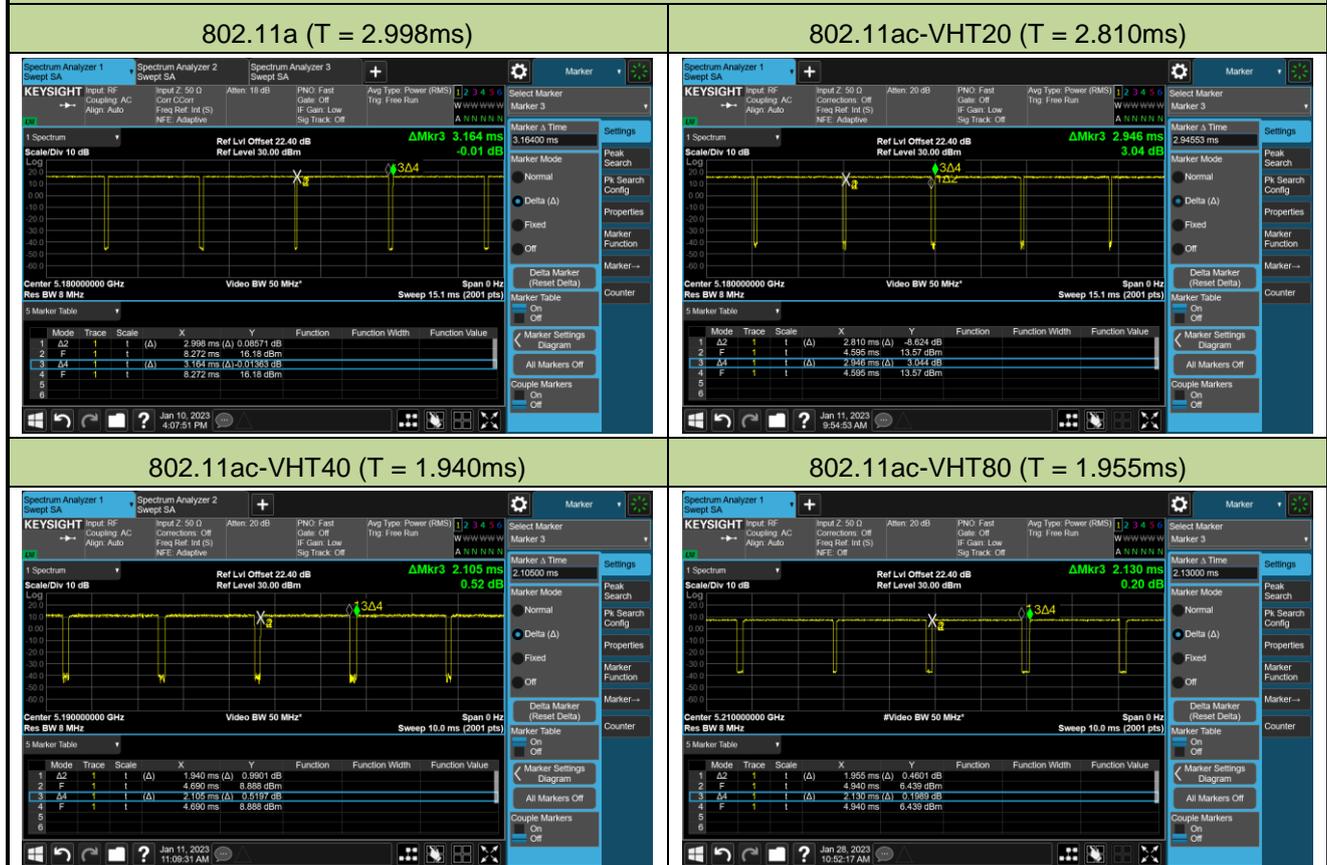
Appendix A – Test Result

A.1 Duty Cycle Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-01-11 ~ 2023-01-28		

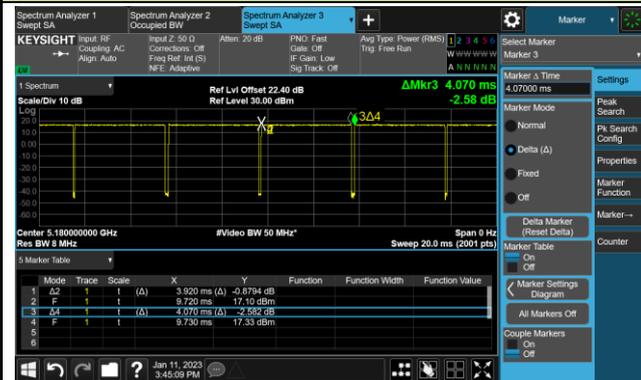
Test Mode	Duty Cycle
802.11a	94.75%
802.11ac-VHT20	95.38%
802.11ac-VHT40	92.16%
802.11ac-VHT80	91.78%
802.11ax-HE20	96.31%
802.11ax-HE40	93.85%
802.11ax-HE80	95.43%
802.11be-EHT20	95.85%
802.11be-EHT40	93.57%
802.11be-EHT80	96.84%

Duty Cycle (T = Transmission Duration)

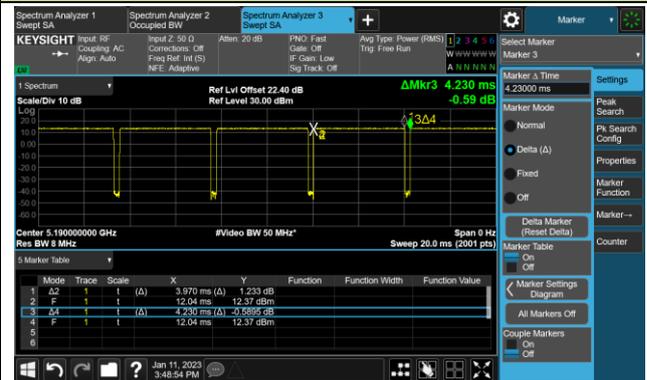


Duty Cycle (T = Transmission Duration)

802.11ax-HE20 (T = 3.920ms)



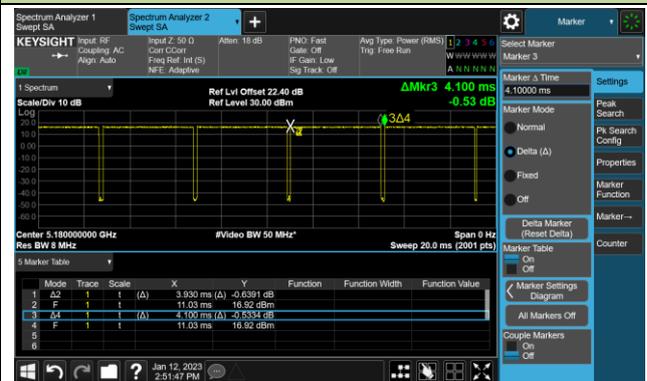
802.11ax-HE40 (T = 3.970ms)



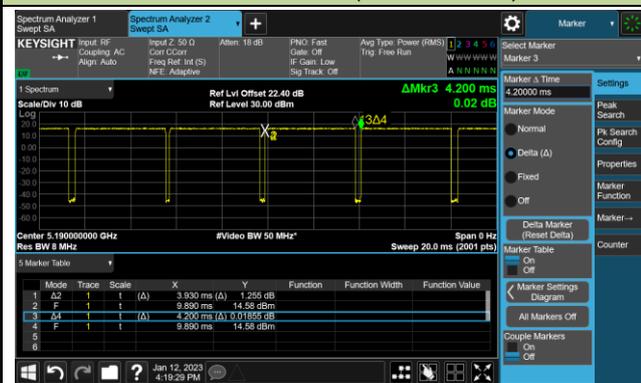
802.11ax-HE80 (T = 3.970ms)



802.11be-EHT20 (T = 3.930ms)



802.11be-EHT40 (T = 3.930ms)



802.11be-EHT80 (T = 3.980ms)



A.2 26dB Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-02-06		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	6Mbps	36	5180	22.46	16.815
11a	6Mbps	44	5220	22.44	16.916
11a	6Mbps	48	5240	22.47	16.892
11a	6Mbps	149	5745	23.98	17.119
11a	6Mbps	157	5785	23.29	17.145
11a	6Mbps	165	5825	22.66	16.892
11ac-VHT20	MCS0	36	5180	23.16	17.927
11ac-VHT20	MCS0	44	5220	23.17	17.967
11ac-VHT20	MCS0	48	5240	23.10	17.909
11ac-VHT20	MCS0	149	5745	37.75	18.687
11ac-VHT20	MCS0	157	5785	23.45	18.032
11ac-VHT20	MCS0	165	5825	22.62	17.975
11ac-VHT40	MCS0	38	5190	42.99	36.463
11ac-VHT40	MCS0	46	5230	45.00	36.583
11ac-VHT40	MCS0	151	5755	44.80	36.519
11ac-VHT40	MCS0	159	5795	45.31	36.698
11ac-VHT80	MCS0	42	5210	91.63	76.252
11ac-VHT80	MCS0	155	5775	88.89	76.076
11ax-HE20	MCS0	36	5180	22.77	19.105
11ax-HE20	MCS0	44	5220	22.62	19.114
11ax-HE20	MCS0	48	5240	22.20	19.191
11ax-HE20	MCS0	149	5745	22.65	19.201
11ax-HE20	MCS0	157	5785	23.89	19.026
11ax-HE20	MCS0	165	5825	22.67	19.161
11ax-HE40	MCS0	38	5190	42.04	37.999
11ax-HE40	MCS0	46	5230	44.45	38.086
11ax-HE40	MCS0	151	5755	42.91	37.994
11ax-HE40	MCS0	159	5795	44.59	38.147
11ax-HE80	MCS0	42	5210	87.08	77.583
11ax-HE80	MCS0	155	5775	88.57	77.710

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
11be-EHT20	MCS0	36	5180	23.00	19.225
11be-EHT20	MCS0	44	5220	23.22	19.106
11be-EHT20	MCS0	48	5240	23.43	19.085
11be-EHT20	MCS0	149	5745	23.18	19.162
11be-EHT20	MCS0	157	5785	23.73	19.238
11be-EHT20	MCS0	165	5825	23.50	19.157
11be-EHT40	MCS0	38	5190	41.77	37.913
11be-EHT40	MCS0	46	5230	44.89	38.058
11be-EHT40	MCS0	151	5755	42.26	37.954
11be-EHT40	MCS0	159	5795	44.44	38.102
11be-EHT80	MCS0	42	5210	90.34	77.651
11be-EHT80	MCS0	155	5775	89.21	77.737

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	F _H (MHz)	Limit (MHz)
11a	6Mbps	48	5240	5248.446	< 5250
11ac-VHT20	MCS0	48	5240	5248.955	< 5250
11ac-VHT40	MCS0	46	5230	5248.292	< 5250
11ac-VHT80	MCS0	42	5210	5248.126	< 5250
11ax-HE20	MCS0	48	5240	5249.596	< 5250
11ax-HE40	MCS0	46	5230	5249.043	< 5250
11ax-HE80	MCS0	42	5210	5248.792	< 5250
11be-EHT20	MCS0	48	5240	5249.543	< 5250
11be-EHT40	MCS0	46	5230	5249.029	< 5250
11be-EHT80	MCS0	42	5210	5248.826	< 5250

Note: $F_H = \text{Centre frequency} + 99\% \text{ OBW} / 2$

For example, 802.11a 5240MHz, $F_H = 5240 \text{ MHz} + 16.892 \text{ MHz} / 2 = 5248.446\text{MHz}$.

802.11a 26dB Bandwidth

Channel 36 (5180MHz)



Channel 44 (5220MHz)



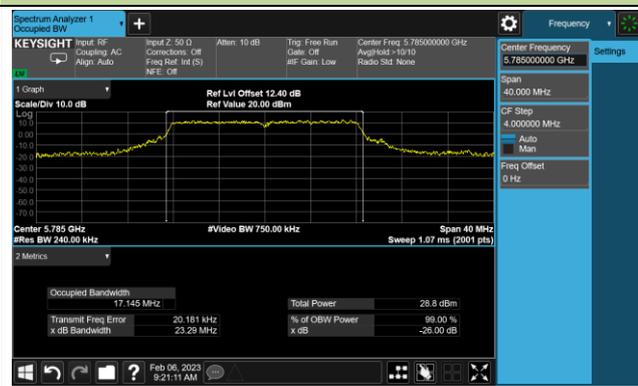
Channel 48 (5240MHz)



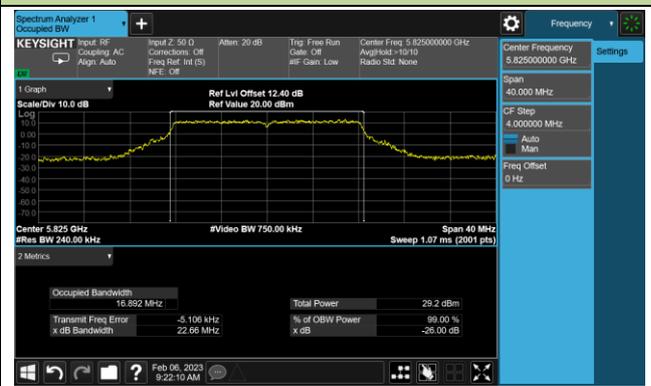
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



802.11ac-VHT20 26dB Bandwidth

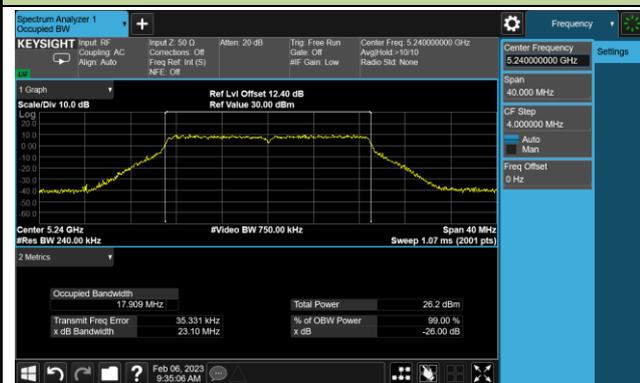
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



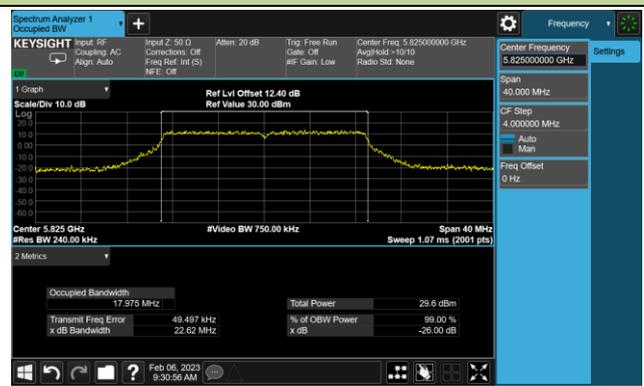
Channel 149 (5745MHz)



Channel 157 (5785MHz)

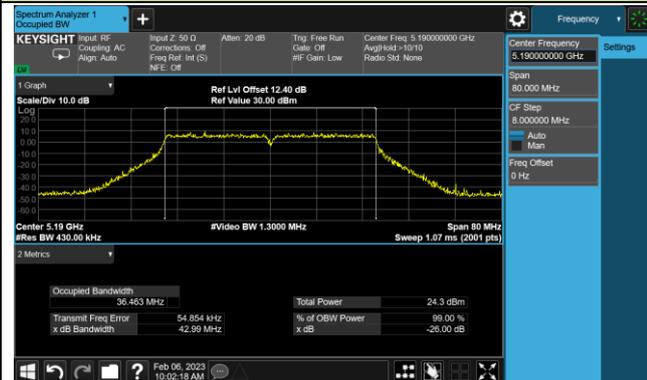


Channel 165 (5825MHz)

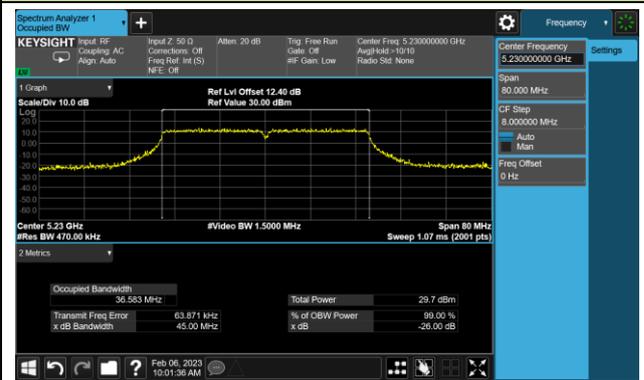


802.11ac-VHT40 26dB Bandwidth

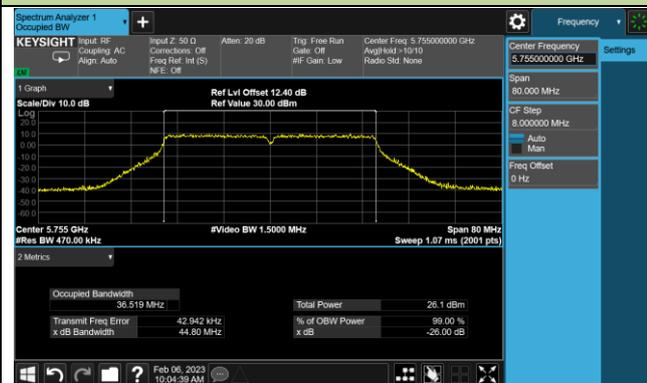
Channel 38 (5190MHz)



Channel 46 (5230MHz)



Channel 151 (5755MHz)

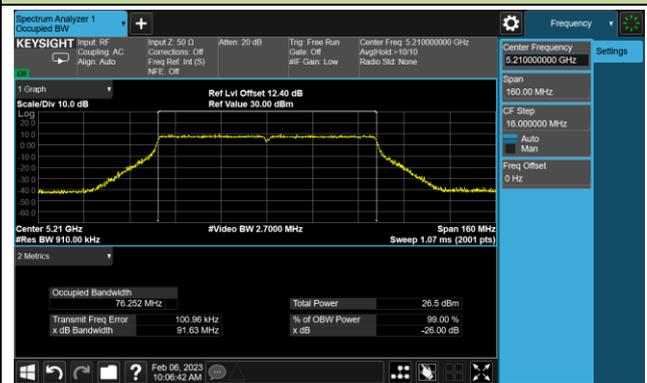


Channel 159 (5795MHz)

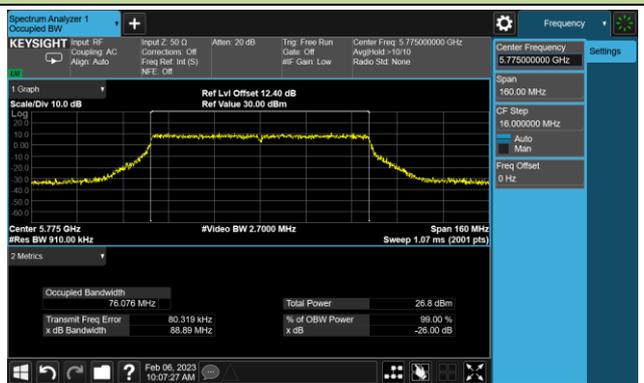


802.11ac-VHT80 26dB Bandwidth

Channel 42 (5210MHz)

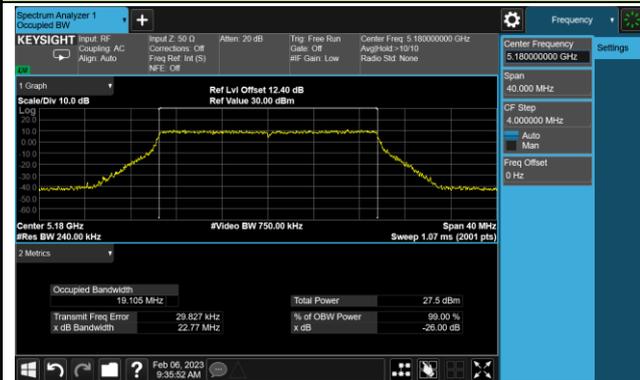


Channel 155 (5775MHz)



802.11ax-HE20 26dB Bandwidth

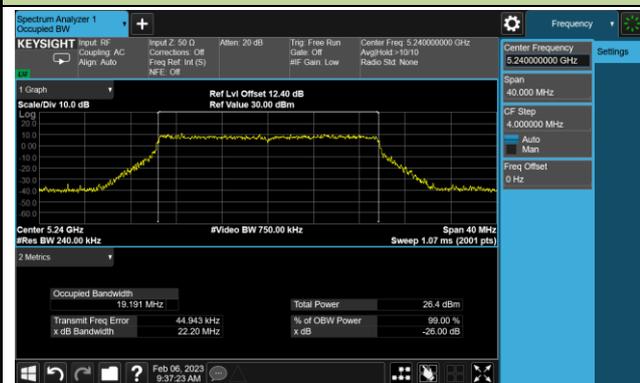
Channel 36 (5180MHz)



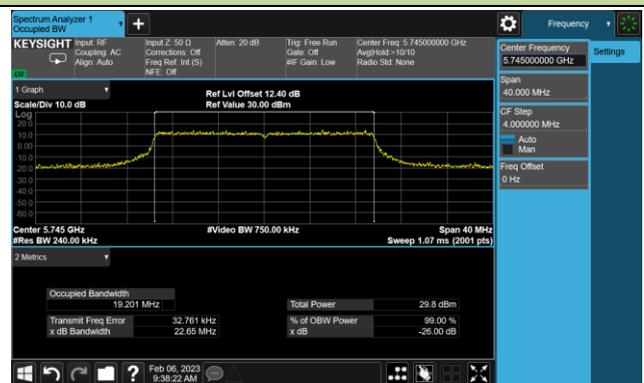
Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)

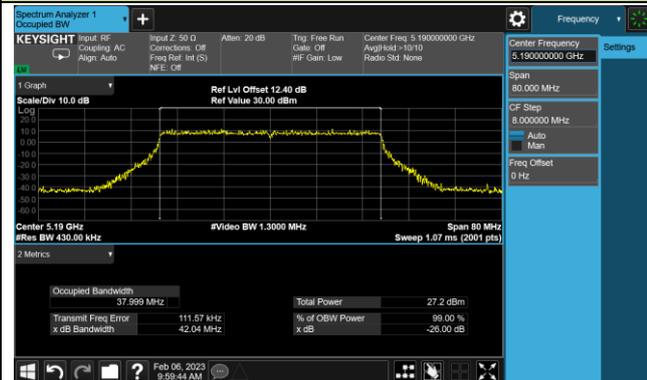


Channel 165 (5825MHz)



802.11ax-HE40 26dB Bandwidth

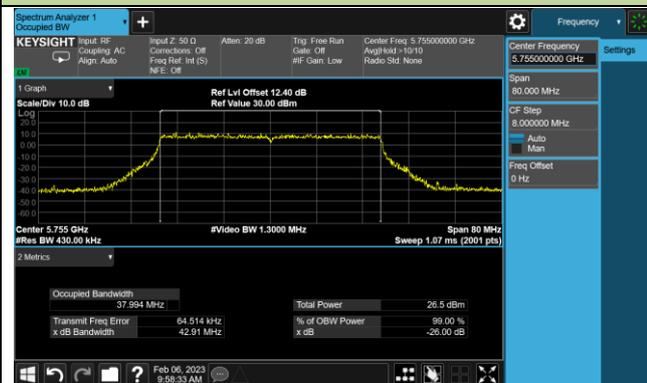
Channel 38 (5190MHz)



Channel 46 (5230MHz)



Channel 151 (5755MHz)

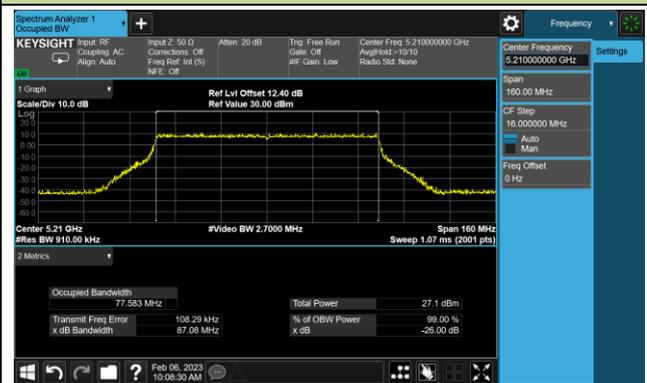


Channel 159 (5795MHz)



802.11ax-HE80 26dB Bandwidth

Channel 42 (5210MHz)

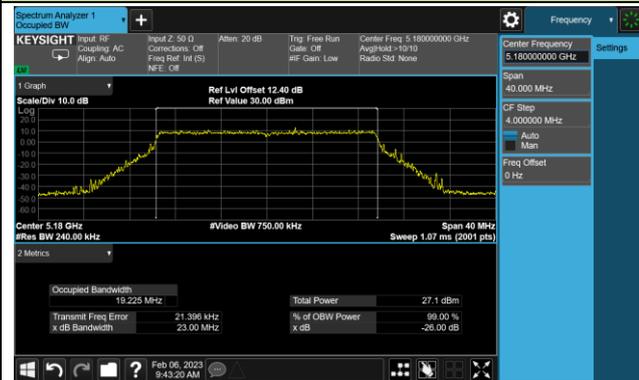


Channel 155 (5775MHz)

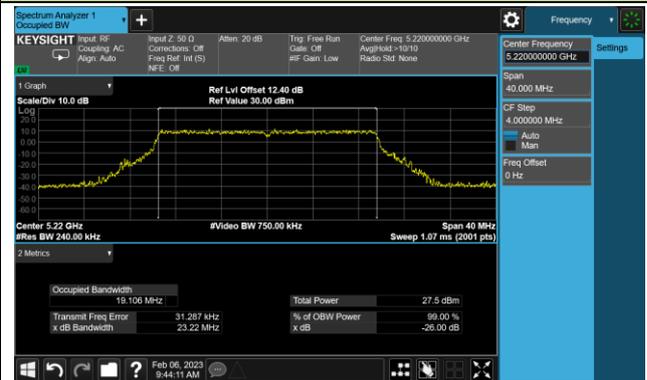


802.11be-EHT20 26dB Bandwidth

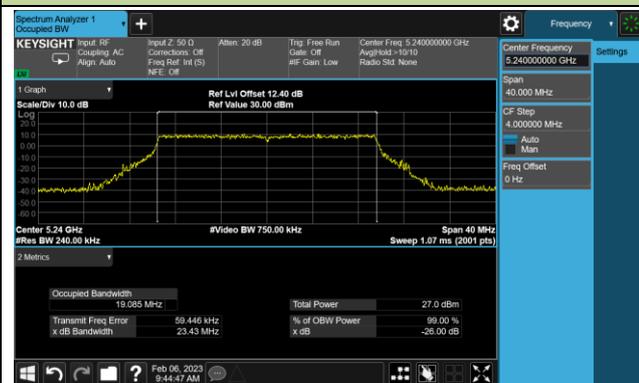
Channel 36 (5180MHz)



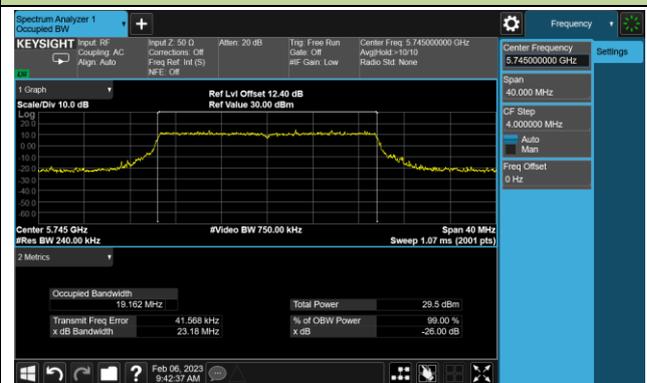
Channel 44 (5220MHz)



Channel 48 (5240MHz)



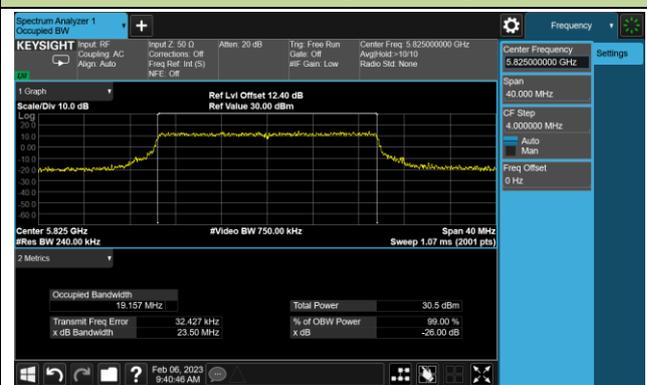
Channel 149 (5745MHz)



Channel 157 (5785MHz)

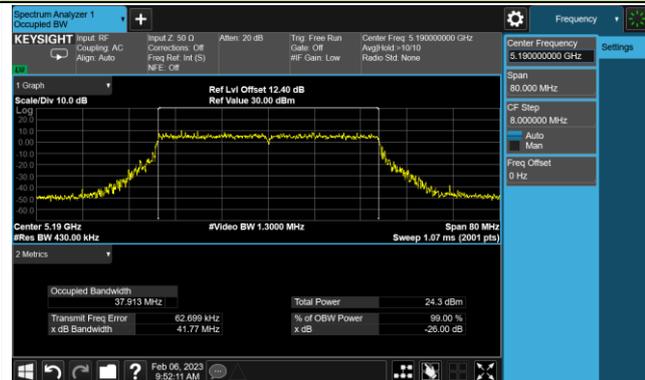


Channel 165 (5825MHz)



802.11 be-EHT40 26dB Bandwidth

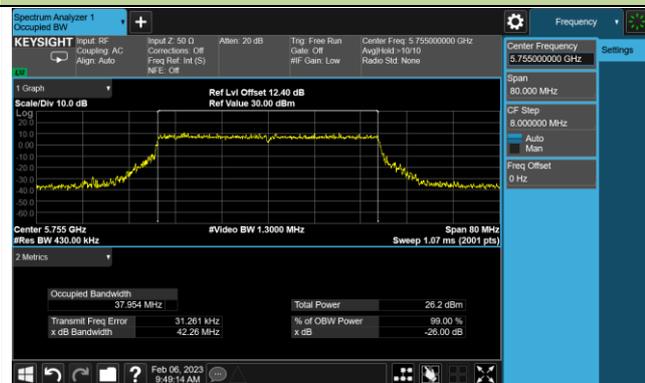
Channel 38 (5190MHz)



Channel 46 (5230MHz)



Channel 151 (5755MHz)

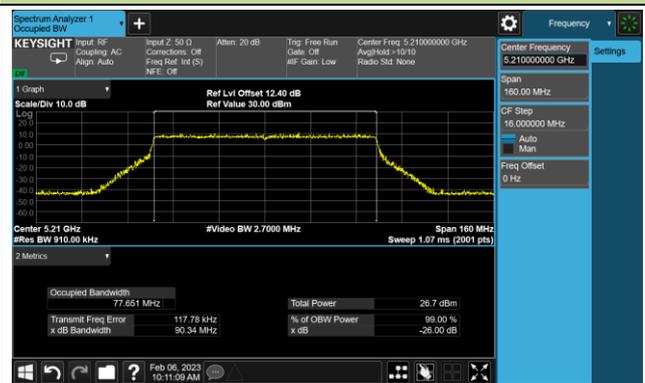


Channel 159 (5795MHz)



802.11 be-EHT80 26dB Bandwidth

Channel 42 (5210MHz)



Channel 155 (5775MHz)



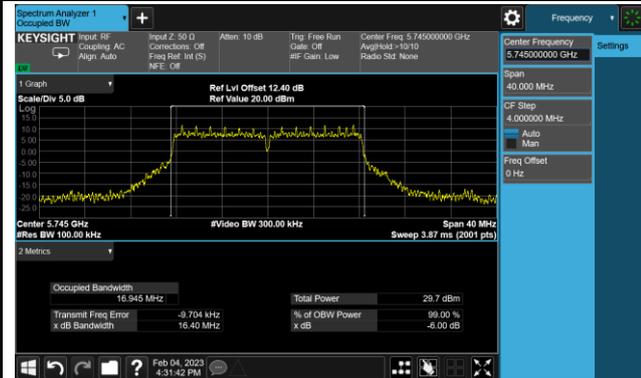
A.3 6dB Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-02-03		

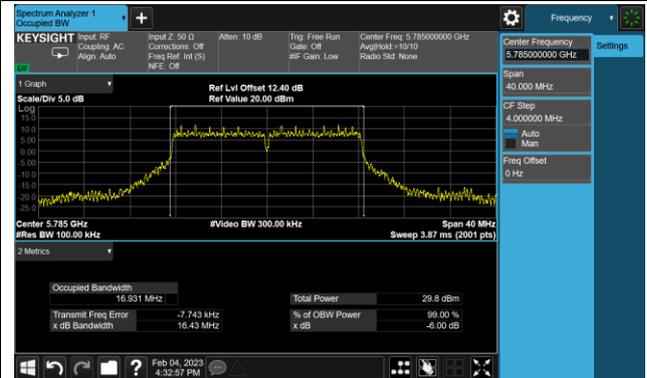
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11a	6Mbps	149	5745	16.40	≥ 0.5
11a	6Mbps	157	5785	16.43	≥ 0.5
11a	6Mbps	165	5825	16.41	≥ 0.5
11ac-VHT20	MCS0	149	5745	17.64	≥ 0.5
11ac-VHT20	MCS0	157	5785	17.63	≥ 0.5
11ac-VHT20	MCS0	165	5825	17.64	≥ 0.5
11ac-VHT40	MCS0	151	5755	36.44	≥ 0.5
11ac-VHT40	MCS0	159	5795	36.41	≥ 0.5
11ac-VHT80	MCS0	155	5775	76.46	≥ 0.5
11ax-HE20	MCS0	149	5745	19.07	≥ 0.5
11ax-HE20	MCS0	157	5785	18.97	≥ 0.5
11ax-HE20	MCS0	165	5825	18.99	≥ 0.5
11ax-HE40	MCS0	151	5755	38.18	≥ 0.5
11ax-HE40	MCS0	159	5795	38.14	≥ 0.5
11ax-HE80	MCS0	155	5775	78.06	≥ 0.5
11be-EHT20	MCS0	149	5745	19.11	≥ 0.5
11be-EHT20	MCS0	157	5785	19.03	≥ 0.5
11be-EHT20	MCS0	165	5825	19.00	≥ 0.5
11be-EHT40	MCS0	151	5755	38.01	≥ 0.5
11be-EHT40	MCS0	159	5795	38.31	≥ 0.5
11be-EHT80	MCS0	155	5775	78.07	≥ 0.5

802.11a 6dB Bandwidth

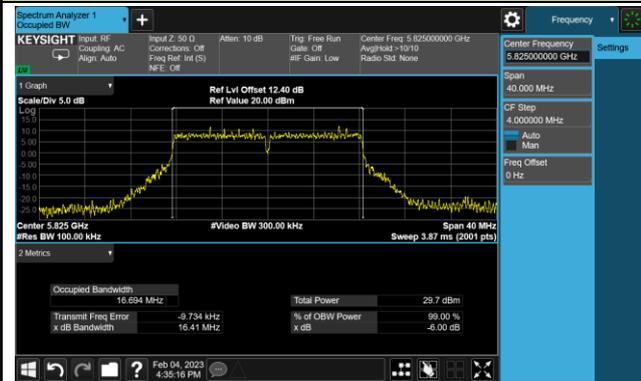
Channel 149 (5745MHz)



Channel 157 (5785MHz)

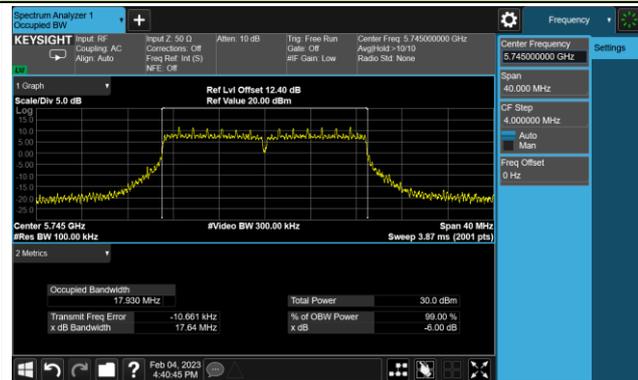


Channel 165 (5825MHz)

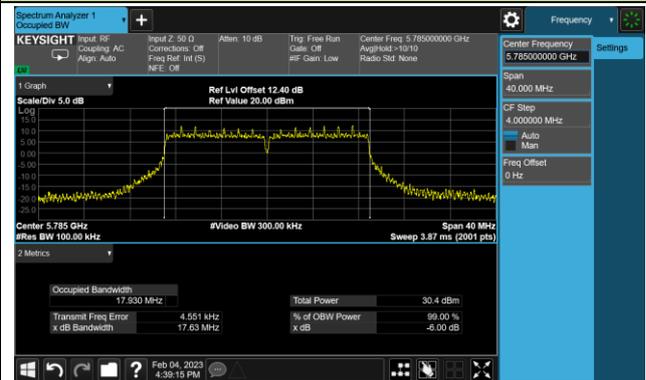


802.11ac-VHT20 6dB Bandwidth

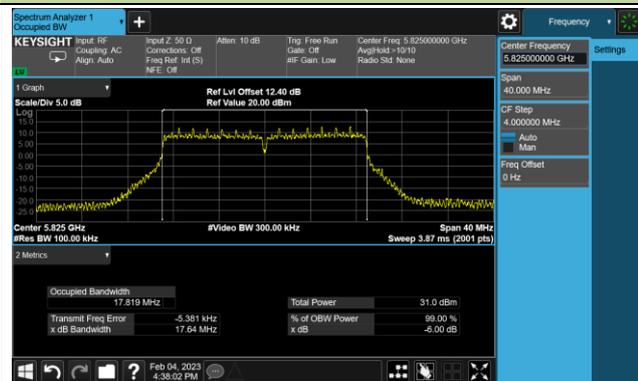
Channel 149 (5745MHz)



Channel 157 (5785MHz)

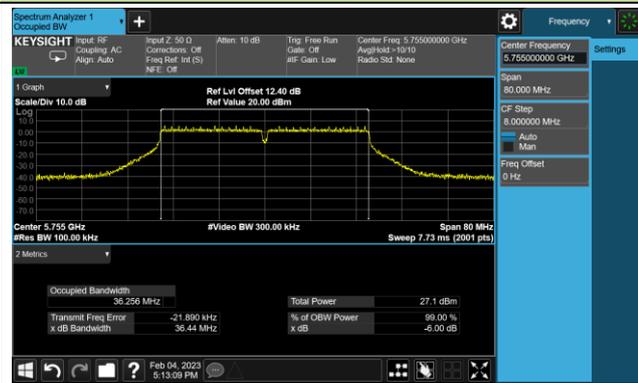


Channel 165 (5825MHz)

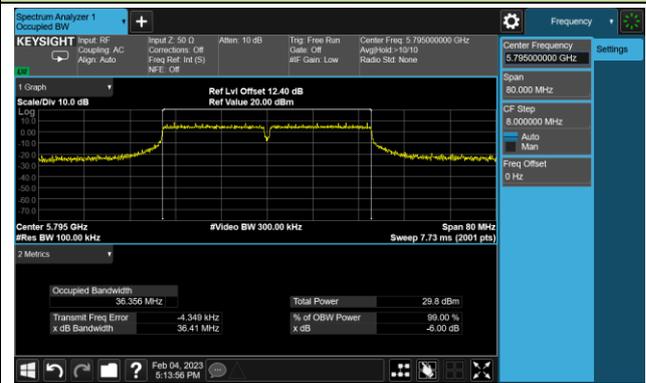


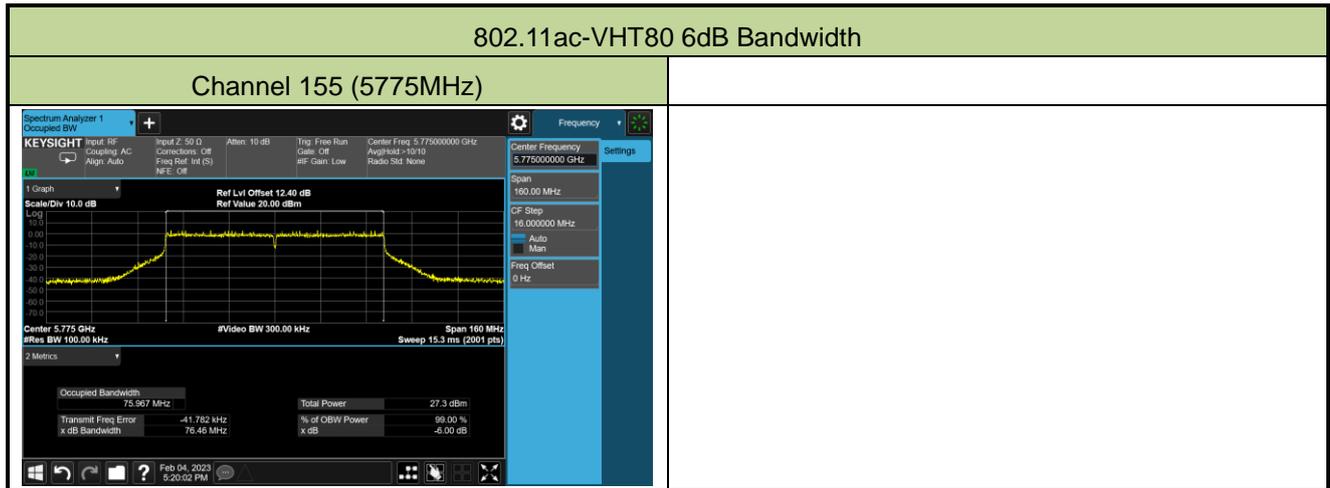
802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)



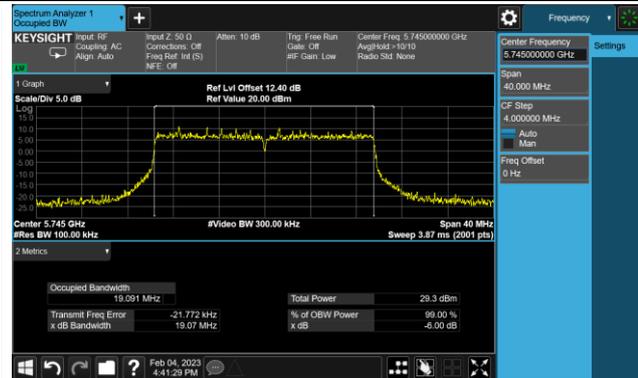
Channel 159 (5795MHz)





802.11ax-HE20 6dB Bandwidth

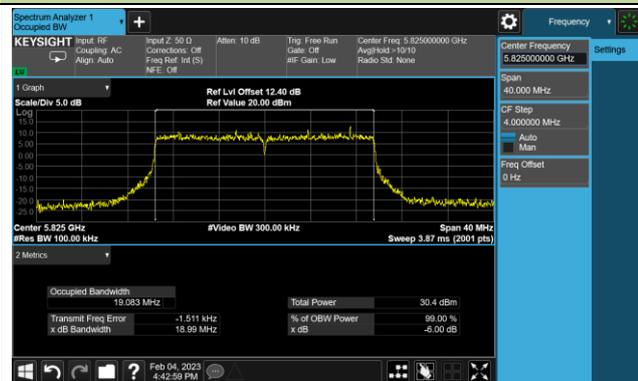
Channel 149 (5745MHz)



Channel 157 (5785MHz)

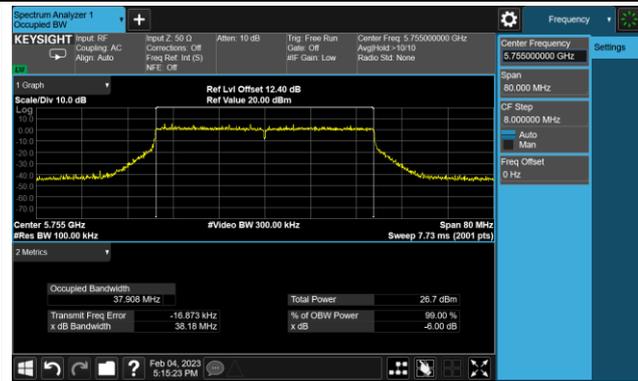


Channel 165 (5825MHz)

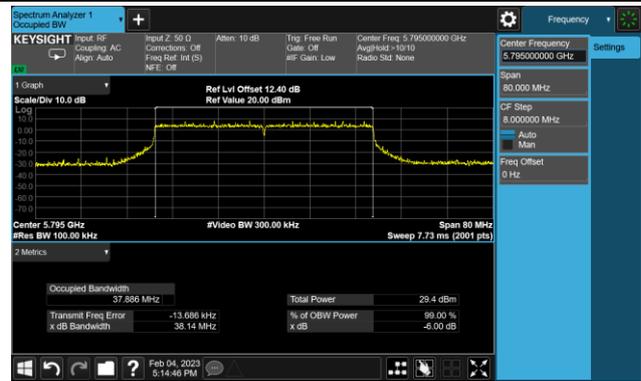


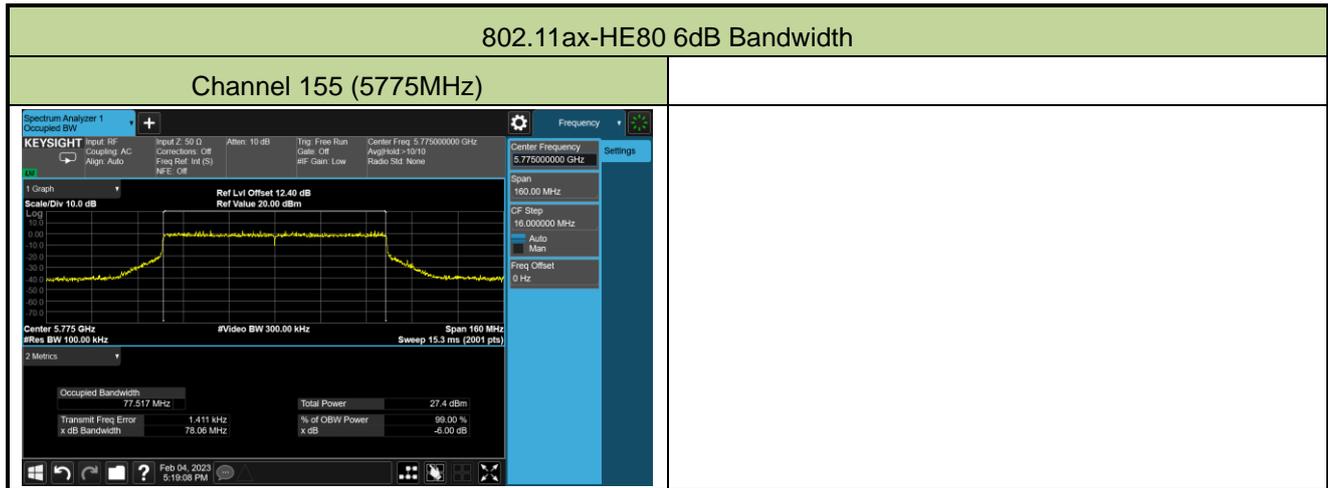
802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)



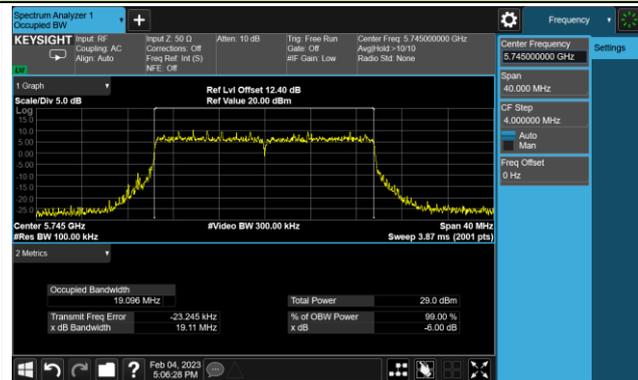
Channel 159 (5795MHz)



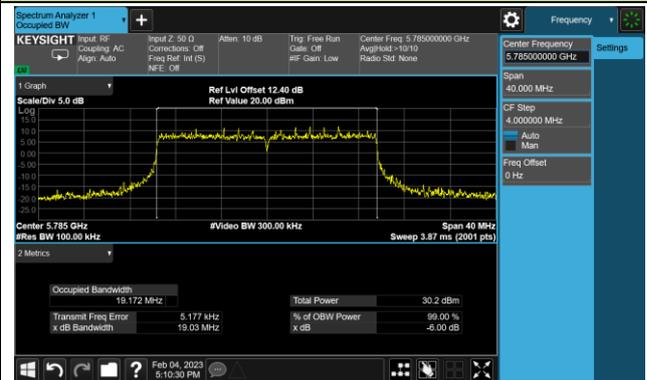


802.11be-EHT20 6dB Bandwidth

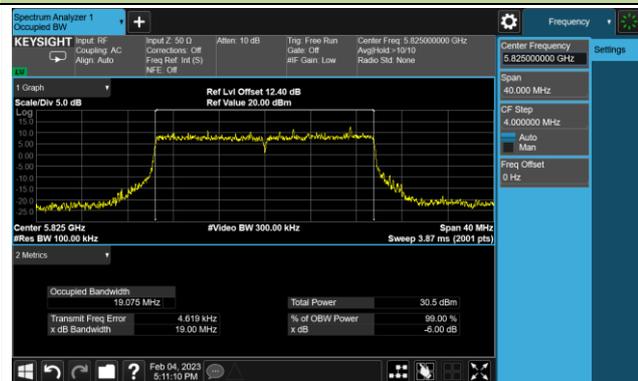
Channel 149 (5745MHz)



Channel 157 (5785MHz)

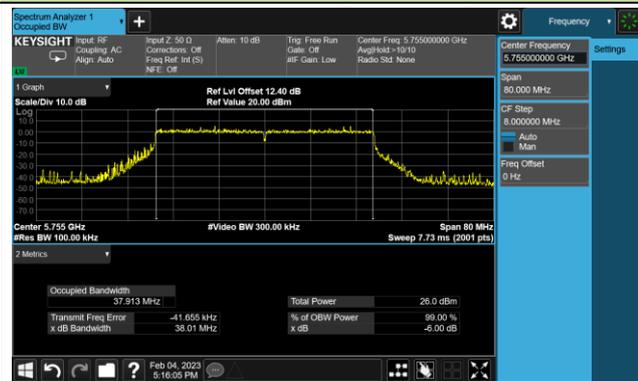


Channel 165 (5825MHz)

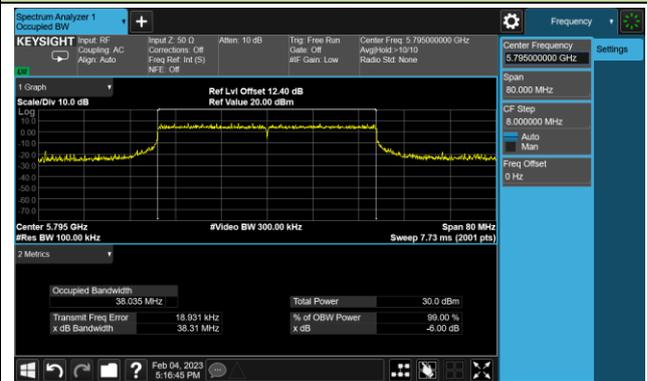


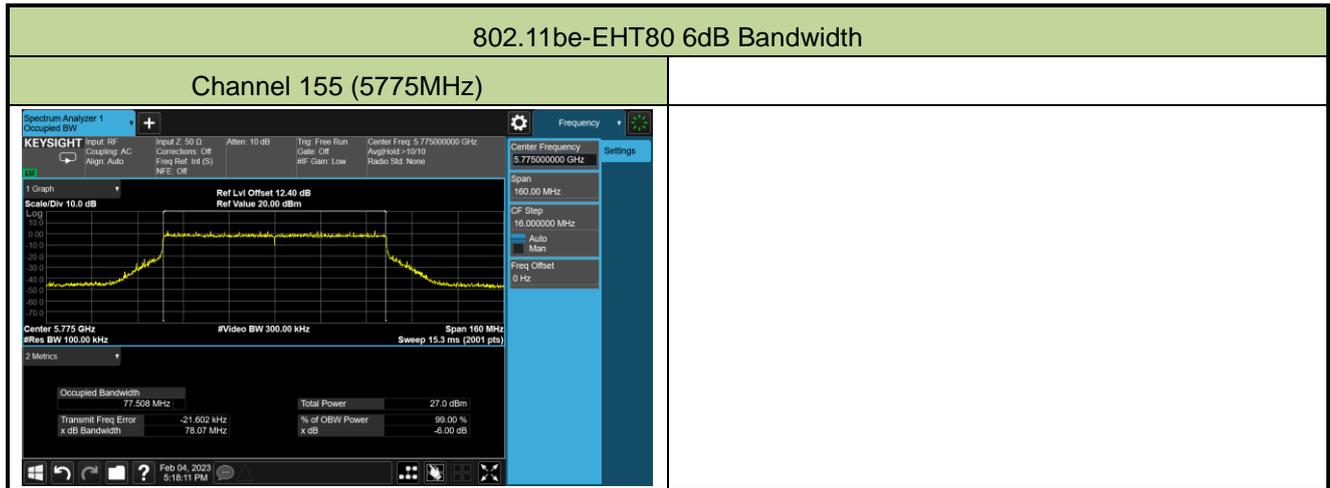
802.11be-EHT40 6dB Bandwidth

Channel 151 (5755MHz)



Channel 159 (5795MHz)





A.4 Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-01-16 ~ 2023-02-02 (UNII-Band 1&UNII-Band 3)		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3		
11a	6Mbps	36	5180	20.28	19.24	19.35	19.41	25.61	≤ 30.00
11a	6Mbps	44	5220	20.43	19.72	19.24	20.39	25.99	≤ 30.00
11a	6Mbps	48	5240	20.19	19.81	19.47	19.95	25.88	≤ 30.00
11a	6Mbps	149	5745	22.09	21.97	21.82	22.25	28.06	≤ 30.00
11a	6Mbps	157	5785	22.38	22.36	22.07	22.70	28.40	≤ 30.00
11a	6Mbps	165	5825	22.71	22.69	22.15	22.93	28.65	≤ 30.00
11ac-VHT20	MCS0	36	5180	20.56	20.07	19.71	20.06	26.13	≤ 30.00
11ac-VHT20	MCS0	44	5220	20.31	19.82	19.34	20.33	25.99	≤ 30.00
11ac-VHT20	MCS0	48	5240	20.35	19.83	19.60	20.03	25.98	≤ 30.00
11ac-VHT20	MCS0	149	5745	22.59	22.51	22.24	22.63	28.52	≤ 30.00
11ac-VHT20	MCS0	157	5785	22.30	22.45	21.96	22.79	28.41	≤ 30.00
11ac-VHT20	MCS0	165	5825	22.64	22.72	21.83	22.94	28.57	≤ 30.00
11ac-VHT40	MCS0	38	5190	19.26	18.55	18.11	18.71	24.70	≤ 30.00
11ac-VHT40	MCS0	46	5230	23.54	22.77	22.43	23.20	29.03	≤ 30.00
11ac-VHT40	MCS0	151	5755	19.52	19.44	18.93	19.55	25.39	≤ 30.00
11ac-VHT40	MCS0	159	5795	22.47	22.39	21.94	22.57	28.37	≤ 30.00
11ac-VHT80	MCS0	42	5210	19.22	18.67	18.35	18.95	24.83	≤ 30.00
11ac-VHT80	MCS0	155	5775	19.90	19.72	19.46	19.85	25.76	≤ 30.00
11ax-HE20	MCS0	36	5180	20.67	20.23	19.91	20.18	26.28	≤ 30.00
11ax-HE20	MCS0	44	5220	20.53	19.94	19.57	20.45	26.16	≤ 30.00
11ax-HE20	MCS0	48	5240	20.57	20.02	19.96	20.03	26.17	≤ 30.00
11ax-HE20	MCS0	149	5745	21.81	21.61	21.26	22.05	27.71	≤ 30.00
11ax-HE20	MCS0	157	5785	22.34	22.55	21.52	22.93	28.39	≤ 30.00
11ax-HE20	MCS0	165	5825	22.89	22.96	22.03	22.95	28.75	≤ 30.00
11ax-HE40	MCS0	38	5190	21.45	20.45	20.55	20.73	26.83	≤ 30.00
11ax-HE40	MCS0	46	5230	23.55	22.87	22.25	23.33	29.05	≤ 30.00
11ax-HE40	MCS0	151	5755	19.34	19.21	19.12	19.73	25.38	≤ 30.00
11ax-HE40	MCS0	159	5795	21.93	21.77	21.47	22.17	27.86	≤ 30.00
11ax-HE80	MCS0	42	5210	19.83	18.67	18.87	19.34	25.22	≤ 30.00
11ax-HE80	MCS0	155	5775	19.83	19.10	19.41	19.94	25.60	≤ 30.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1	Ant 2	Ant 3		
11be-EHT20	MCS0	36	5180	20.25	19.21	19.53	19.26	25.60	≤ 30.00
11be-EHT20	MCS0	44	5220	20.83	20.05	20.42	20.22	26.41	≤ 30.00
11be-EHT20	MCS0	48	5240	20.38	19.52	20.21	20.11	26.09	≤ 30.00
11be-EHT20	MCS0	149	5745	21.41	21.20	21.27	21.39	27.34	≤ 30.00
11be-EHT20	MCS0	157	5785	22.42	22.48	21.90	22.45	28.34	≤ 30.00
11be-EHT20	MCS0	165	5825	22.85	22.89	22.21	22.80	28.72	≤ 30.00
11be-EHT40	MCS0	38	5190	19.74	19.19	18.69	18.90	25.17	≤ 30.00
11be-EHT40	MCS0	46	5230	23.44	23.05	22.58	22.94	29.03	≤ 30.00
11be-EHT40	MCS0	151	5755	19.16	19.23	18.85	19.02	25.09	≤ 30.00
11be-EHT40	MCS0	159	5795	22.05	22.12	21.46	22.09	27.96	≤ 30.00
11be-EHT80	MCS0	42	5210	19.25	18.66	18.11	18.16	24.59	≤ 30.00
11be-EHT80	MCS0	155	5775	19.15	19.17	18.72	18.70	24.96	≤ 30.00

Note: Total Average Power (dBm) = $10 \cdot \log \{ 10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)} \}$.

A.5 Power Spectral Density Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-01-10 ~ 2023-02-03		
Test Item	Power Spectral Density (UNII-Band 1)		

Test Mode	Data Rate/MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ MHz)				Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)
				Ant 0	Ant 1	Ant 2	Ant 3			
11a	6Mbps	36	5180	8.032	7.128	6.906	7.107	94.75	13.571	≤ 14.01
11a	6Mbps	44	5220	8.041	7.145	6.661	7.140	94.75	13.531	≤ 14.01
11a	6Mbps	48	5240	7.997	7.010	7.221	7.641	94.75	13.739	≤ 14.01
11ac-VHT20	MCS0	36	5180	8.154	7.421	7.139	7.411	95.38	13.774	≤ 14.01
11ac-VHT20	MCS0	44	5220	7.829	6.842	6.662	7.084	95.38	13.354	≤ 14.01
11ac-VHT20	MCS0	48	5240	7.954	6.974	7.124	7.695	95.38	13.681	≤ 14.01
11ac-VHT40	MCS0	38	5190	4.393	3.265	3.073	3.097	92.16	9.868	≤ 14.01
11ac-VHT40	MCS0	46	5230	7.531	6.623	7.531	7.536	92.16	13.698	≤ 14.01
11ac-VHT80	MCS0	42	5210	0.963	-0.308	-0.224	0.062	91.78	6.547	≤ 14.01
11ax-HE20	MCS0	36	5180	8.130	7.235	7.090	7.513	96.31	13.695	≤ 14.01
11ax-HE20	MCS0	44	5220	7.812	6.798	6.725	7.186	96.31	13.336	≤ 14.01
11ax-HE20	MCS0	48	5240	7.789	6.887	7.083	7.665	96.31	13.556	≤ 14.01
11ax-HE40	MCS0	38	5190	6.262	4.850	5.287	5.057	93.85	11.695	≤ 14.01
11ax-HE40	MCS0	46	5230	7.868	6.694	6.512	7.101	93.85	13.372	≤ 14.01
11ax-HE80	MCS0	42	5210	1.685	0.439	0.485	0.574	95.43	7.051	≤ 14.01
11be-EHT20	MCS0	36	5180	8.030	7.065	6.929	7.045	95.85	13.495	≤ 14.01
11be-EHT20	MCS0	44	5220	7.868	7.252	6.965	7.800	95.85	13.692	≤ 14.01
11be-EHT20	MCS0	48	5240	7.833	7.404	6.881	7.095	95.85	13.523	≤ 14.01
11be-EHT40	MCS0	38	5190	4.475	3.385	3.240	3.453	93.57	9.976	≤ 14.01
11be-EHT40	MCS0	46	5230	8.113	6.730	6.553	7.090	93.57	13.474	≤ 14.01
11be-EHT80	MCS0	42	5210	1.288	0.163	0.087	0.511	96.84	6.699	≤ 14.01

Note 1: When EUT duty cycle < 98%, the total PSD = $10 \cdot \log \{ 10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)} \} + 10 \cdot \log (1/\text{Duty cycle})$.

When EUT duty cycle ≥ 98%, the total PSD = $10 \cdot \log \{ 10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)} \}$.

Note 2: PSD Limit (dBm/MHz) = 17 - (8.99-6) = 14.01 dBm/MHz

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-01-10 ~ 2023-02-03		
Test Item	Power Spectral Density (UNII-Band 3)		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ 510KHz)				Duty Cycle (%)	Total PSD (dBm/ 510KHz)	PSD Limit (dBm/ 500KHz)
				Ant 0	Ant 1	Ant 2	Ant 3			
11a	6Mbps	149	5745	8.531	7.830	7.698	7.966	94.75	14.273	≤ 27.01
11a	6Mbps	157	5785	8.537	8.048	7.724	8.019	94.75	14.347	≤ 27.01
11a	6Mbps	165	5825	9.184	9.046	8.198	8.964	94.75	15.119	≤ 27.01
11ac-VHT20	MCS0	149	5745	8.529	7.627	7.677	7.917	95.38	14.179	≤ 27.01
11ac-VHT20	MCS0	157	5785	8.409	7.902	7.670	7.906	95.38	14.206	≤ 27.01
11ac-VHT20	MCS0	165	5825	8.882	8.667	7.746	8.593	95.38	14.719	≤ 27.01
11ac-VHT40	MCS0	151	5755	2.508	2.236	1.549	1.955	92.16	8.452	≤ 27.01
11ac-VHT40	MCS0	159	5795	5.484	4.814	4.597	4.804	92.16	11.313	≤ 27.01
11ac-VHT80	MCS0	155	5775	-0.454	-0.950	-1.357	-0.940	91.78	5.480	≤ 27.01
11ax-HE20	MCS0	149	5745	8.020	6.860	6.661	7.072	96.31	13.369	≤ 27.01
11ax-HE20	MCS0	157	5785	8.361	7.856	7.492	7.905	96.31	14.098	≤ 27.01
11ax-HE20	MCS0	165	5825	8.520	8.572	7.641	8.373	96.31	14.476	≤ 27.01
11ax-HE40	MCS0	151	5755	2.357	2.107	1.455	1.720	93.85	8.220	≤ 27.01
11ax-HE40	MCS0	159	5795	4.991	4.381	3.961	4.086	93.85	10.670	≤ 27.01
11ax-HE80	MCS0	155	5775	-0.372	-0.806	-1.400	-1.078	95.43	5.326	≤ 27.01
11be-EHT20	MCS0	149	5745	7.425	6.261	6.171	6.515	95.85	12.827	≤ 27.01
11be-EHT20	MCS0	157	5785	8.186	7.822	7.310	7.879	95.85	14.015	≤ 27.01
11be-EHT20	MCS0	165	5825	8.553	8.586	7.619	8.569	95.85	14.555	≤ 27.01
11be-EHT40	MCS0	151	5755	2.233	1.964	1.281	1.421	93.57	8.051	≤ 27.01
11be-EHT40	MCS0	159	5795	5.268	4.521	4.317	4.580	93.57	10.996	≤ 27.01
11be-EHT80	MCS0	155	5775	-0.724	-1.279	-1.659	-1.565	96.84	4.896	≤ 27.01

Note 1:

When EUT duty cycle < 98%, the total PSD = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{Duty cycle})$.

When EUT duty cycle ≥ 98%, the total PSD = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)} + 10^{(\text{Ant 2 AVGPSD}/10)} + 10^{(\text{Ant 3 AVGPSD}/10)}\}$.

Note 2: PSD Limit (dBm/500KHz) = 30 - (8.99 - 6) = 27.01dBm/MHz.