RF MEASUREMENT REPORT

FCC ID:	Q9DAPIN0755
Applicant:	Hewlett Packard Enterprise Company
Product:	ACCESS POINT
Model No.:	APIN0755
Trademark:	Hewlett Packard Enterprise
FCC Classification:	Unlicensed National Information Infrastructure (NII)
FCC Rule Part(s):	Part 15 Subpart E (Section 15.407)
Result:	Complies
Received Date:	2024-03-29
Test Date:	2024-04-15 ~ 2024-07-31

Reviewed By: Jame Yuan

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

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 and KDB 291074. 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
2403RSU068-U5	V01	Initial Report	2024-07-27	Invalid
2403RSU068-U5	V02	Remove test data of channel puncturing mode	2024-08-13	Valid

CONTENTS

Description Page

1. General Information 6

1.1. Applicant 6
1.2. Manufacturer 6
1.3. Testing Facility 6
1.4. Product Information 7
1.5. Radio Specification under Test 7
1.6. Working Frequencies 8
1.7. Antenna Details 8
1.8. Description of Antenna RF Port 9

2. Test Configuration 10

2.1. Test Mode 10
2.2. Test System Connection Diagram 11
2.3. Test Software 11
2.4. Applied Standards 12
2.5. Test Environment Condition 12

3. Antenna Requirements 13

4. Measuring Instrument 14

5. Decision Rules and Measurement Uncertainty 16

5.1. Decision Rules 16
5.2. Measurement Uncertainty 16

6. Test Result 17

6.1. Summary 17
6.2. 26dB & 99% Bandwidth Measurement 18
6.2.1. Test Limit 18
6.2.2. Test Procedure 18
6.2.3. Test Setting 18
6.2.4. Test Setup 19
6.2.5. Test Result 19
6.3. 6dB Bandwidth Measurement 20
6.3.1. Test Limit 20
6.3.2. Test Procedure 20
6.3.3. Test Setting 20
6.3.4. Test Setup 20
6.3.5. Test Result 20
6.4. Output Power Measurement 21

6.4.1. Test Limit 21
6.4.2. Test Procedure 21
6.4.3. Test Setting 21
6.4.4. Test Setup 21
6.4.5. Test Result 21
6.5. Power Spectral Density Measurement 22
6.5.1. Test Limit 22
6.5.2. Test Procedure 22
6.5.3. Test Setting 22
6.5.4. Test Setup 22
6.5.5. Test Result 23
6.6. Frequency Stability Measurement 24
6.6.1. Test Limit 24
6.6.2. Test Procedure 24
6.6.3. Test Setup 24
6.6.4. Test Result 25
6.7. Radiated Spurious Emission Measurement 26
6.7.1. Test Limit 26
6.7.2. Test Procedure 26
6.7.3. Test Setting 27
6.7.4. Test Setup 29
6.7.5. Test Result 30
6.8. Radiated Band Edge Measurement 31
6.8.1. Test Limit 31
6.8.2. Test Procedure 31
6.8.3. Test Setting 31
6.8.4. Test Setup 33
6.8.5. Test Result 33
6.9. AC Conducted Emissions Measurement 34
6.9.1. Test Limit 34
6.9.2. Test Setup 34
6.9.3. Test Result 34

Appendix A – Test Result 35

A.1 Duty Cycle Test Result 35
A.2 26dB & 99% Bandwidth Test Result 38
A.3 6dB Bandwidth Test Result 46
A.4 Output Power Test Result 54
A.5 Power Spectral Density Test Result 55
A.6 Frequency Stability Test Result 85

A.7 Radiated Spurious Emission Test Result 86
A.8 Radiated Band Edge Test Result 118
A.9 AC Conducted Emissions Test Result 158

Appendix B – Test Setup Photograph 160

Appendix C – EUT Photograph 161

1. General Information

1.1. Applicant

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

1.2. Manufacturer

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

1.3. Testing Facility

☒	**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: ☐R-20025 ☐G-20034 ☐C-20020 ☐T-20020 ☐R-20141 ☐G-20134 ☐C-20103 ☐T-20104
☐	**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
☐	**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: 3261 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	ACCESS POINT
Model No.	APIN0755
Serial No.	Radiated Sample: CNRRM59015
	Conducted Sample: CNRRM5901H
Software Version	v0.4.3t4
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Bluetooth Specification	BLE only
ZigBee Specification	802.15.4
GNSS Specification	GPS, Galileo
Antenna Information	Refer to Section 1.8
Power Type	AC Adapter Input or PoE Input
Operating Environment	Indoor Use
Remark: 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: 5845MHz, 5865MHz, 5885MHz For 802.11n-HT40/ac-VHT40/ax-HE40/be-EHT40: 5835MHz, 5875MHz For 802.11ac-VHT80/ax-HE80/be-EHT80: 5855MHz For 802.11ac-VHT160/ax-HE160/be-EHT160: 5815MHz		
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 300Mbps 802.11ac: up to 3564Mbps 802.11ax: up to 4804Mbps 802.11be: up to 5764Mbps		
Support RU	☒ Full RU	☐ Partial RU	☐ Single RU
			☐ Multi RU
			☐ Channel Puncturing

1.6. Working Frequencies

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
169	5845 MHz	173	5865 MHz	177	5885 MHz

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
167	5835 MHz	175	5875 MHz	--	--

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
171	5855 MHz	--	--	--	--

802.11ac-VHT160/ax-HE160/be-EHT160

Channel	Frequency	Channel	Frequency	Channel	Frequency
163	5815 MHz	--	--	--	--

1.7. Antenna Details

Antenna Type	Wi-Fi Antenna	Frequency Band (GHz)	T_X Paths	Directional Gain (dBi)	
				Uncorrelated	Correlated
PIFA	Ant 1	5.15 ~ 5.9	4	3.6	9.5
PIFA	Ant 2	5.15 ~ 5.9			
Alford Loop	Ant 3	5.15 ~ 5.9			
Alford Loop	Ant 4	5.15 ~ 5.9			

Note:

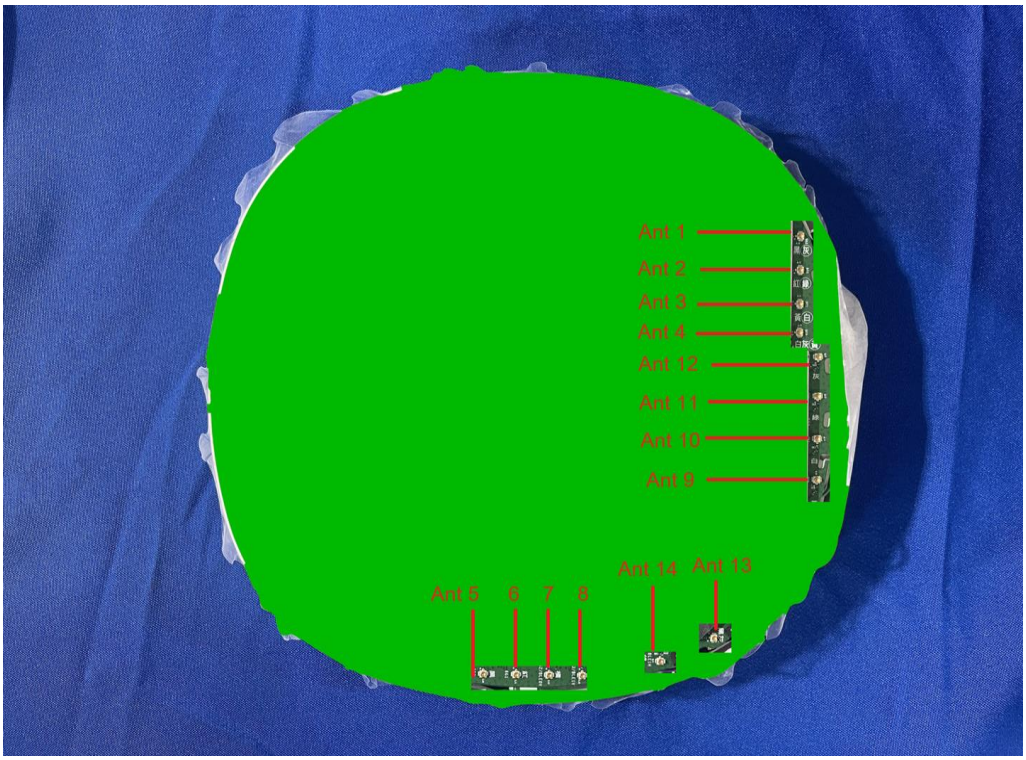
1, The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

2, The EUT also supports Beam Forming mode, and the Beam Forming support 802.11n/ac/ax/be, not include 802.11a/b/g.

3, For beamforming operation, Aruba OS automatically backs power down based on CDD power.

4, The detail calculation method of directional gain refers to antenna specification provided by the applicant.

1.8. Description of Antenna RF Port



Antenna Port	RF Spec.			
	Wi-Fi 2.4G	Wi-Fi 5G	Wi-Fi 6G	BLE/ZigBee
Ant 1	--	● (Radio 1)	--	--
Ant 2	--	● (Radio 1)	--	--
Ant 3	--	● (Radio 1)	--	--
Ant 4	--	● (Radio 1)	--	--
Ant 5	--	--	● (Radio 0)	--
Ant 6	--	--	● (Radio 0)	--
Ant 7	--	--	● (Radio 0)	● (Core 0)
Ant 8	--	--	● (Radio 0)	● (Core 1)
Ant 9	● (Radio 2)	--	--	--
Ant 10	● (Radio 2)	--	--	--
Ant 11	● (Radio 2)	--	--	--
Ant 12	● (Radio 2)	--	--	--
Ant 13	GNSS			
Ant 14	--	--	--	● (Core 1)

2. Test Configuration

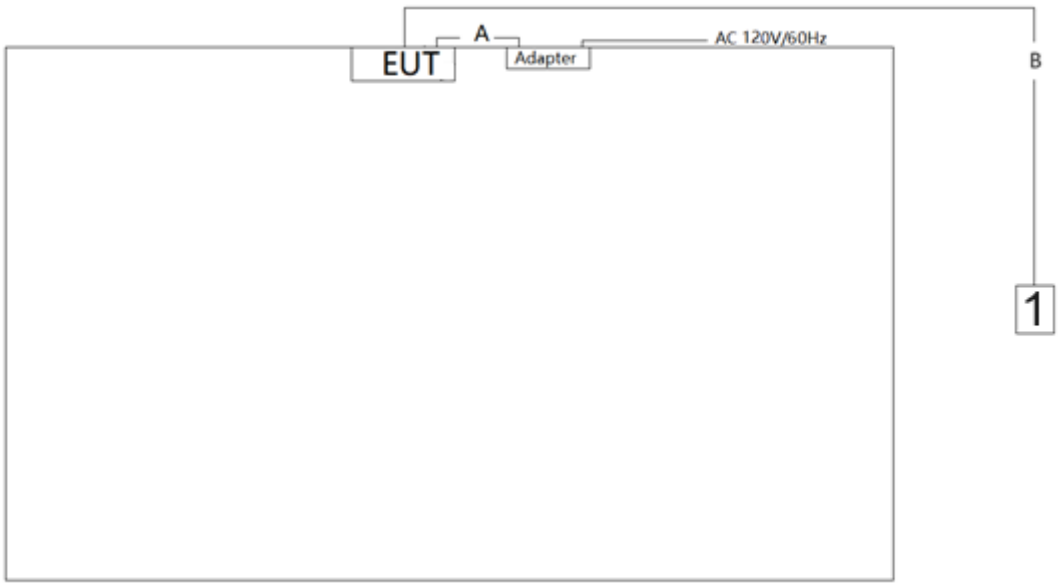
2.1. Test Mode

Mode 1: Transmit by 802.11a (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 802.11ac-VHT160_N_{SS}=1 (MCS0)
Mode 6: Transmit by 802.11ax-HE20_N_{SS}=1 (MCS0)
Mode 7: Transmit by 802.11ax-HE40_N_{SS}=1 (MCS0)
Mode 8: Transmit by 802.11ax-HE80_N_{SS}=1 (MCS0)
Mode 9: Transmit by 802.11ax-HE160_N_{SS}=1 (MCS0)
Mode 10: Transmit by 802.11be-EHT20_N_{SS}=1 (MCS0)
Mode 11: Transmit by 802.11be-EHT40_N_{SS}=1 (MCS0)
Mode 12: Transmit by 802.11be-EHT80_N_{SS}=1 (MCS0)
Mode 13: Transmit by 802.11be-EHT160_N_{SS}=1 (MCS0)
Note: 1. For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. 2. 802.11n and 802.11ac have same modulation type and same power value, so we only show 802.11ac test data in report. 3. For CDD mode, this device supports 2 N_{SS} and power level is the same of spatial multiplexing. The worst case is N_{SS}=1. 4. For beamforming operation, manufacturer automatically backs power down based on CDD power. Therefore, only the CDD mode was evaluated in this report.

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.

Connection Diagram



No.	Cable Type	Cable Spec.	Length
A	Power Cable	Non-Shielded	1.2m
B	LAN Cable	Non-Shielded, Cat 6	>10.0m
No.	Product	Manufacturer	Model No.
1	Notebook	DELL	Latitude 5491

2.3. Test Software

The test utility software used during testing was “accessMTool”, and the version was 3.3.0.6.

Note: Final power setting please refer to operational description.

2.4. 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 291074 D02v01
- KDB 662911 D01v02r01
- ANSI C63.10-2013

2.5. Test Environment Condition

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

3. Antenna Requirements

KDB 291074 D01v01: An Indoor Access point in the U-NII-4 band (5.850-5.895 GHz) and U-NII -3 & -4 span channels must use an integrated antenna.

- The antenna of the device is built in and locked inside the enclosure.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Anechoic Chamber	RIKEN	SIP-AC1	MRTSUE06554	1 year	2024-12-21	SIP-AC1
Thermohygrometer	testo	608-H1	MRTSUE06616	1 year	2024-10-28	SIP-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06645	1 year	2024-07-13	SIP-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06645	1 year	2025-07-05	SIP-AC1
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2025-01-27	SIP-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE07028	1 year	2024-10-23	SIP-AC1
Anechoic Chamber	RIKEN	SIP-AC1	MRTSUE06554	1 year	2024-12-21	SIP-AC1
Preamplifier	EMCI	EMC051845SE	MRTSUE06601	1 year	2024-11-02	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06622	1 year	2024-11-03	SIP-AC2
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2024-12-21	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06648	1 year	2024-10-21	SIP-AC2
Signal Analyzer	Keysight	N9020B	MRTSUE06604	1 year	2025-02-03	SIP-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2024-10-09	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06598	1 year	2024-11-04	SIP-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE06603	1 year	2024-09-27	SIP-AC3
Horn Antenna	R&S	HF907	MRTSUE06611	1 year	2024-07-14	SIP-AC3
Horn Antenna	R&S	HF907	MRTSUE06611	1 year	2025-07-07	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2024-10-28	SIP-AC3
Preamplifier	EMCI	EMC012645SE	MRTSUE06642	1 year	2025-01-11	SIP-AC3
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2024-12-21	SIP-AC3
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2024-08-09	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2024-11-09	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2024-04-20	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2025-04-19	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2024-10-25	WZ-AC1
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2024-05-07	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2025-05-06	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2024-04-20	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2025-04-18	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2024-11-07	WZ-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2024-10-23	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2024-05-31	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2025-05-12	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2024-05-23	WZ-SR5

Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2024-05-23	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2025-05-08	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11092	1 year	2024-06-08	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11092	1 year	2025-06-05	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11087	1 year	2024-06-08	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11087	1 year	2025-06-05	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2024-05-23	WZ-SR5/WZ-TR3
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-SR5/WZ-TR3
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2024-09-27	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE11268	1 year	2024-12-14	WZ-TR3
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2025-05-12	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2024-05-31	WZ-SR2
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2025-05-08	WZ-SR2
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2024-05-23	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2024-09-27	WZ-SR2

Software	Version	Function
EMI Software	V3.0.0	EMI Test Software
e3	230711	RE & CE
Controller_MF 7802BS	1.02	RE Antenna & Turntable
Controller_MF 7802	2.03C	RE Antenna & Turntable
Controller_MF 7802	1.02	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: 2.61dB Coplanar: 9kHz~30MHz: 2.62dB Horizontal: 30MHz~200MHz: 3.79dB 200MHz~1GHz: 3.91dB 1GHz~40GHz: 4.99dB Vertical: 30MHz~200MHz: 4.06dB 200MHz~1GHz: 5.21dB 1GHz~40GHz: 4.90dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.2dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.4dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.2dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.7%

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)(3)(ii)	Maximum Conducted Output Power		Pass
15.407(a)(3)(ii),(13)	Peak Power Spectral Density		Pass
15.407(b)(5)(i)	Undesirable Emissions	Radiated	Pass
15.205, 15.209 15.407(b) (8), (9), (10)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)		Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Notes:

1. 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.
2. For radiated emission test, every axis (X, Y, Z) was also verified. 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

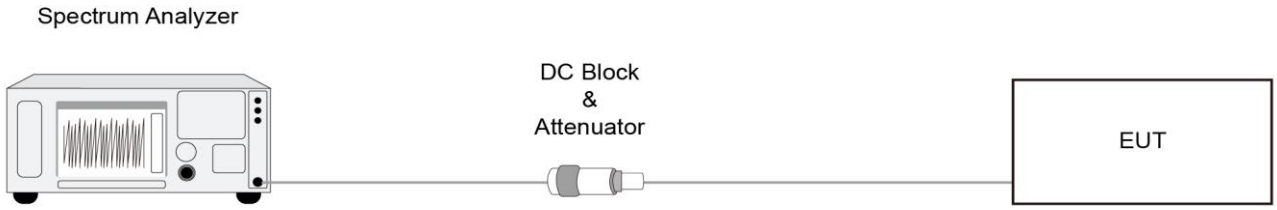
26dB Bandwidth

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 ≥ 3 × 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



6.2.5. Test Result

Refer to Appendix A.2.

6.3. 6dB Bandwidth Measurement

6.3.1. Test Limit

The minimum 6dBbandwidth shall be at least 500 kHz.

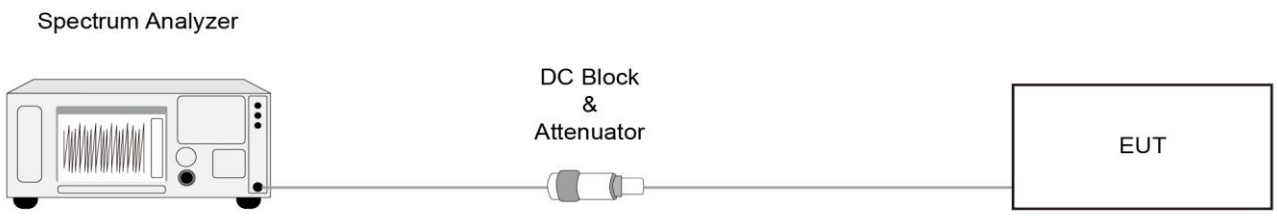
6.3.2. Test Procedure

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 ≥ 3 × 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 an indoor access point operating in the 5.850-5.895 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.

6.4.2. Test Procedure

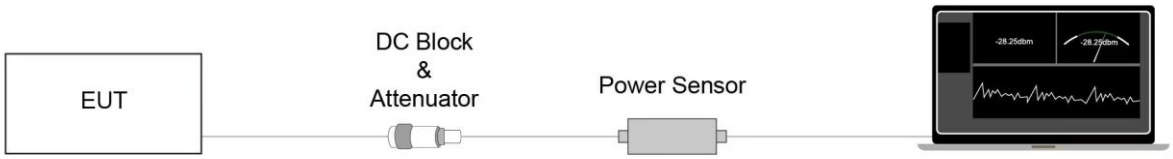
KDB 789033D02v02r01- Section II)E)3)b) Method PM-G

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 an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band.

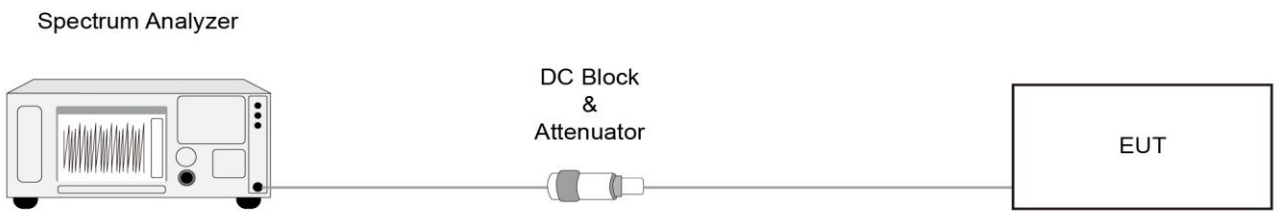
6.5.2. Test Procedure

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
4. VBW = 3 × RBW
5. Number of sweep points ≥ 2 × (span / 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*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*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:

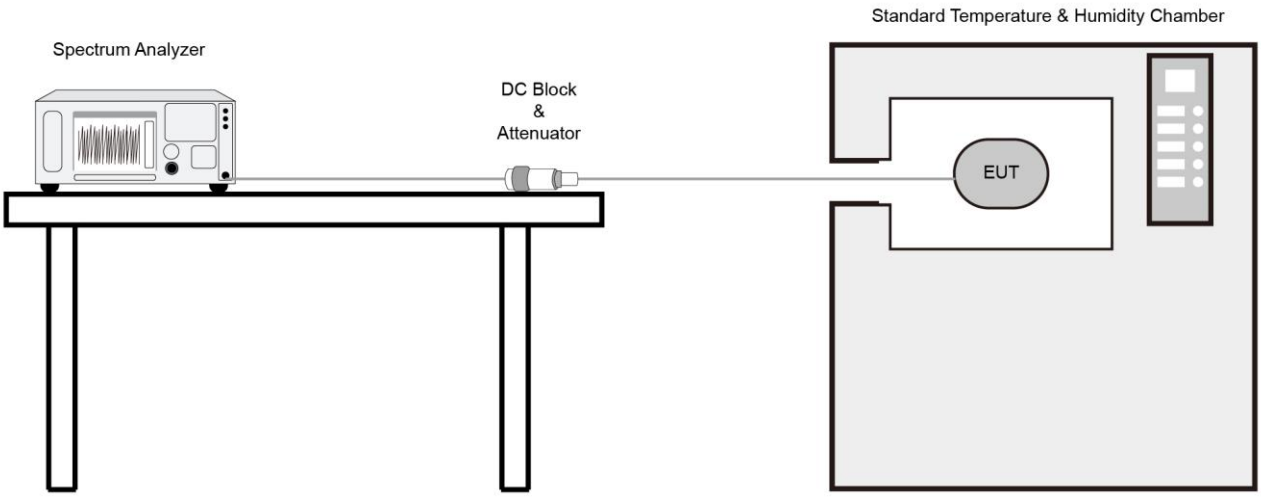
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain 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 (±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 [μV/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 ≥ 98%, set VBW = 10Hz

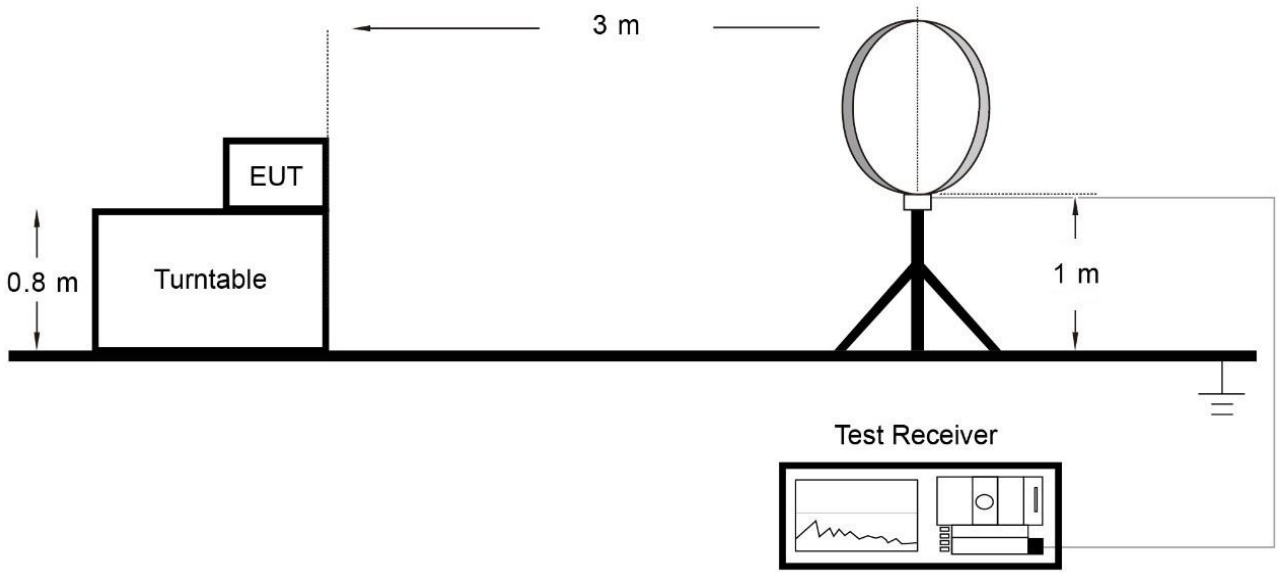
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

802.11a	VBW = 510Hz	802.11ax-HE80	VBW = 2700Hz
802.11ac-VHT20	VBW = 560Hz	802.11ax-HE160	VBW = 4300Hz
802.11ac-VHT40	VBW = 1100Hz	802.11be-EHT20	VBW = 680Hz
802.11ac-VHT80	VBW = 2200Hz	802.11be-EHT40	VBW = 1300Hz
802.11ac-VHT160	VBW = 4300Hz	802.11be-EHT80	VBW = 2700Hz
802.11ax-HE20	VBW = 680Hz	802.11be-EHT160	VBW = 4300Hz
802.11ax-HE40	VBW = 1300Hz	--	--

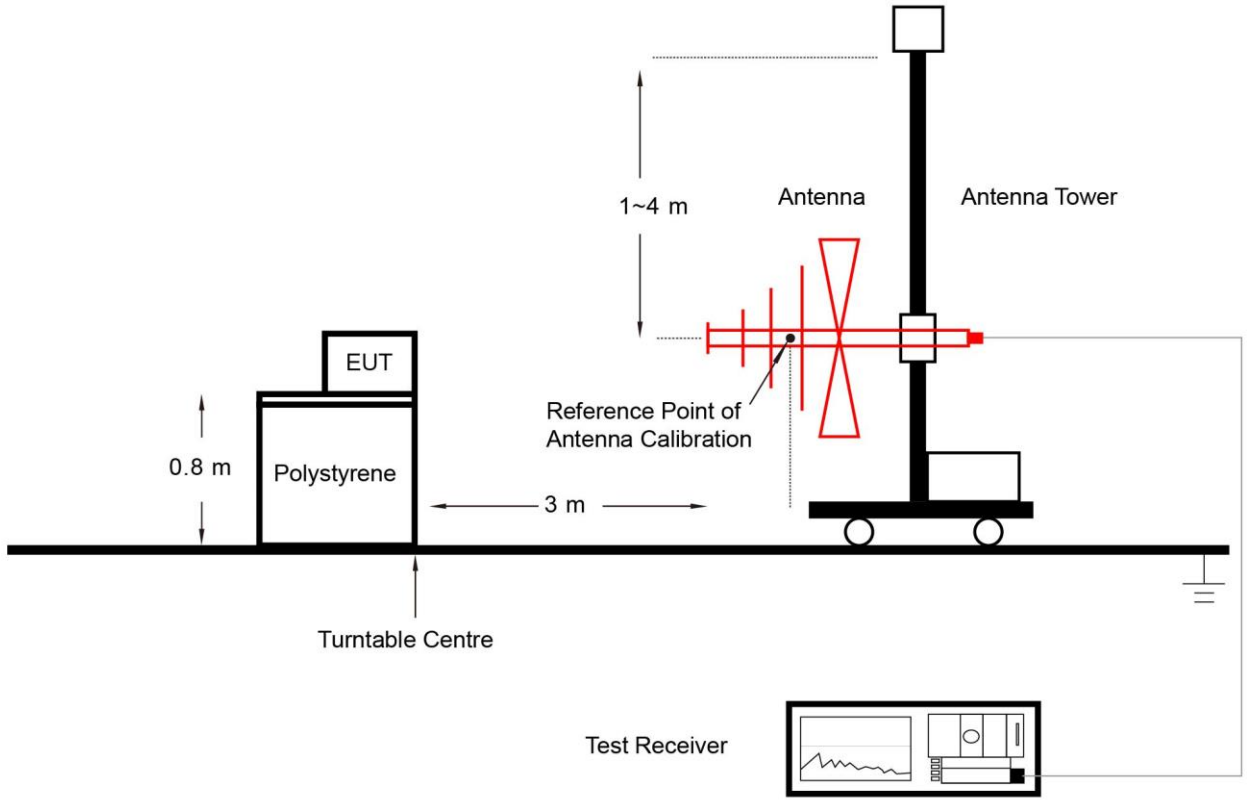
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.7.4. Test Setup

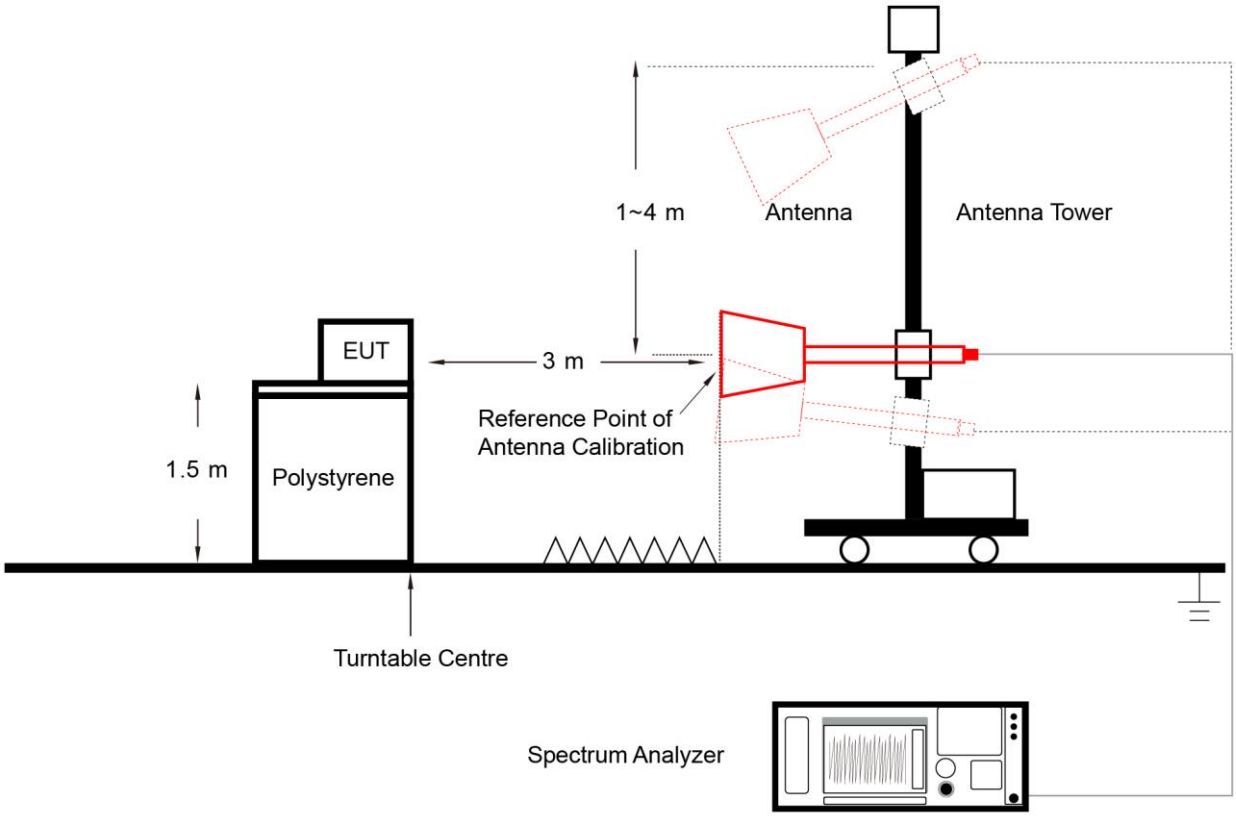
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.7.5. Test Result

Refer to Appendix A.7.

6.8. Radiated Band Edge Measurement

6.8.1. Test Limit

For 15.407(b) requirement:

For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:

For an indoor access point, all emissions at or above 5.895GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925GHz.

All emissions below 5.725 GHz shall not exceed an e.i.r.p. of −27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

E [dBµV/m] = EIRP [dBm] + 95.2, for example, -27 dBm/MHz = 68.2 dBµV/m

6.8.2. Test Procedure

KDB 789033 D02v02r01- Section G

6.8.3. Test Setting

<u>Peak Measurements above 1GHz</u>

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)

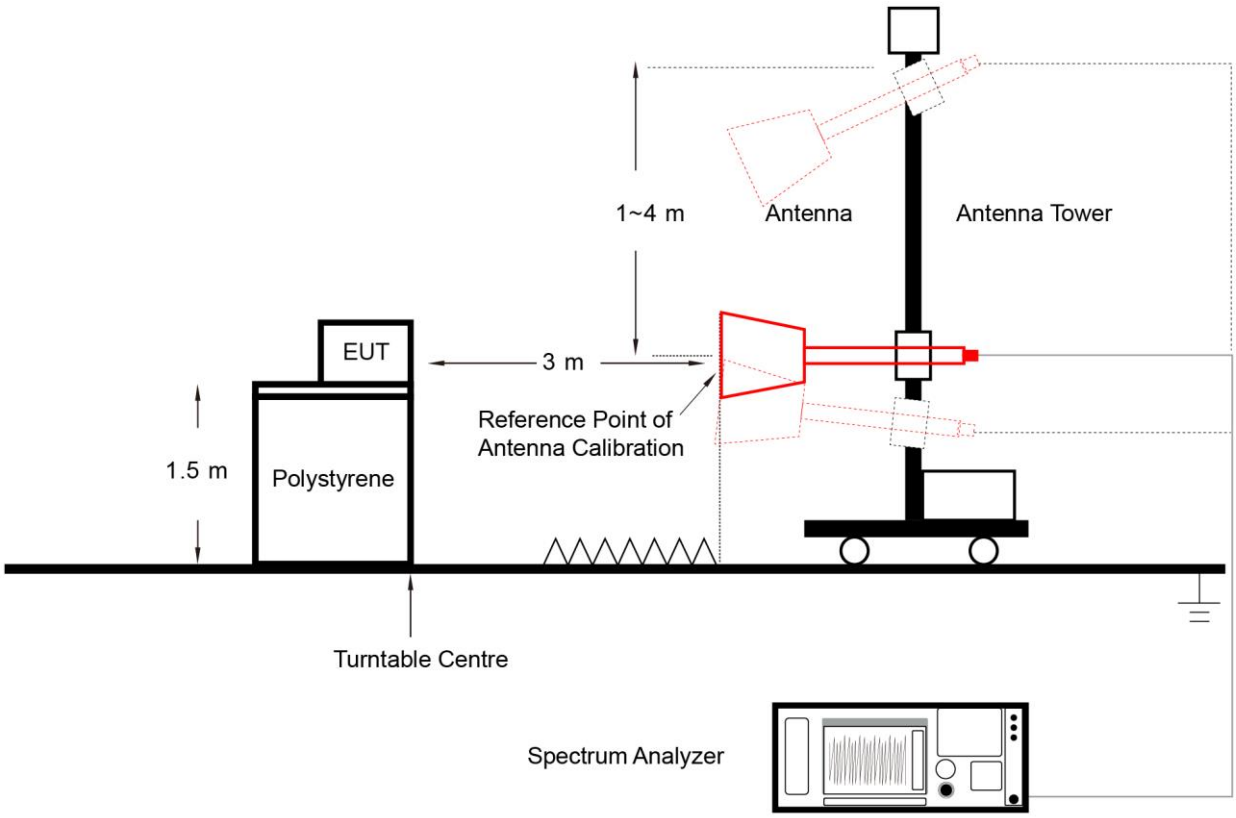
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; if the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10Hz

   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

802.11a	VBW = 510Hz	802.11ax-HE80	VBW = 2700Hz
802.11ac-VHT20	VBW = 560Hz	802.11ax-HE160	VBW = 4300Hz
802.11ac-VHT40	VBW = 1100Hz	802.11be-EHT20	VBW = 680Hz
802.11ac-VHT80	VBW = 2200Hz	802.11be-EHT40	VBW = 1300Hz
802.11ac-VHT160	VBW = 4300Hz	802.11be-EHT80	VBW = 2700Hz
802.11ax-HE20	VBW = 680Hz	802.11be-EHT160	VBW = 4300Hz
802.11ax-HE40	VBW = 1300Hz	--	--

4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode
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

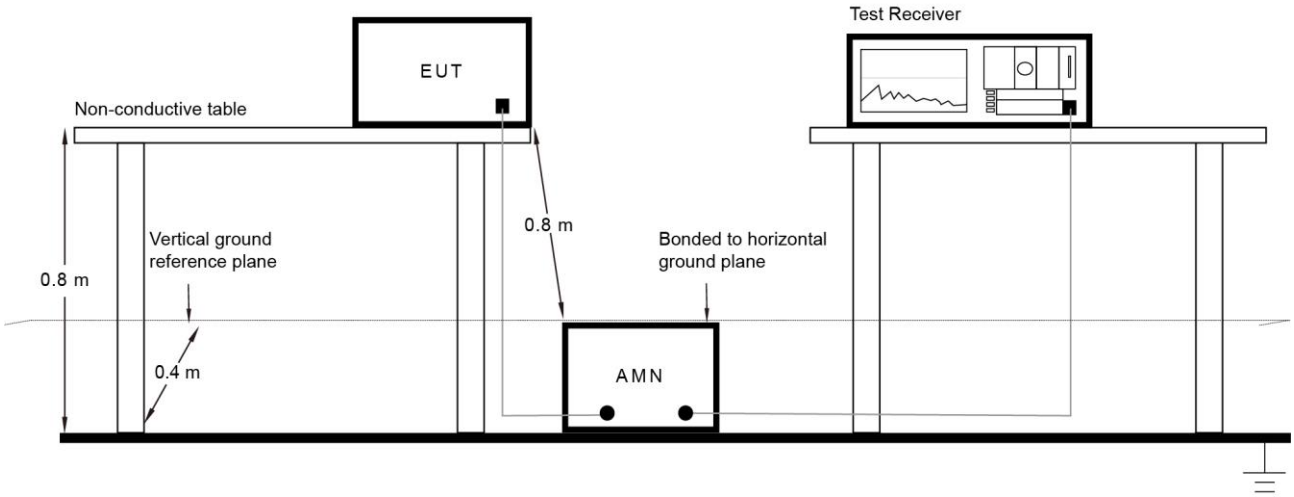
Refer to Appendix A.8.

6.9. AC Conducted Emissions Measurement

6.9.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dBμV)	AV (dBμV)
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

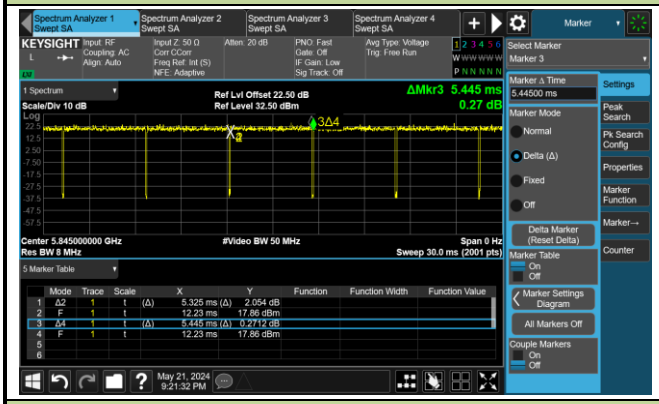
A.1 Duty Cycle Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2024-05-21		

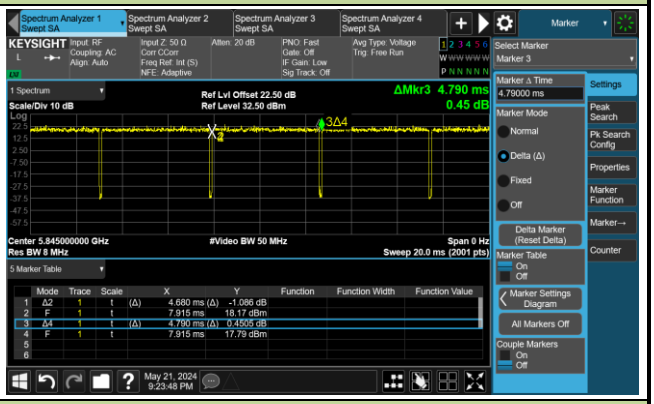
Test Mode	Duty Cycle	Test Mode	Duty Cycle
802.11a	97.80%	802.11ax-HE80	95.44%
802.11ac-VHT20	97.70%	802.11ax-HE160	96.75%
802.11ac-VHT40	97.40%	802.11be-EHT20	97.64%
802.11ac-VHT80	95.67%	802.11be-EHT40	97.61%
802.11ac-VHT160	96.74%	802.11be-EHT80	97.59%
802.11ax-HE20	98.06%	802.11be-EHT160	97.93%
802.11ax-HE40	97.79%	--	--

Duty Cycle (T = Transmission Duration)

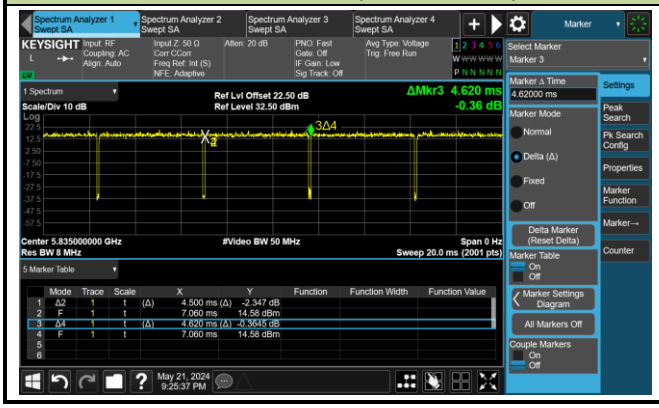
802.11a (T = 5.325ms)



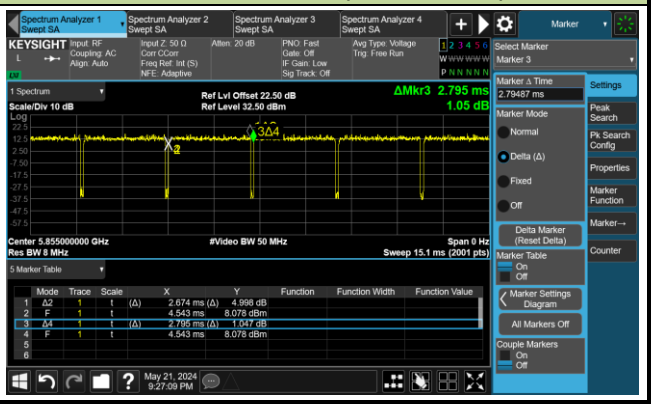
802.11ac-VHT20 (T = 4.680ms)



802.11ac-VHT40 (T = 4.500ms)

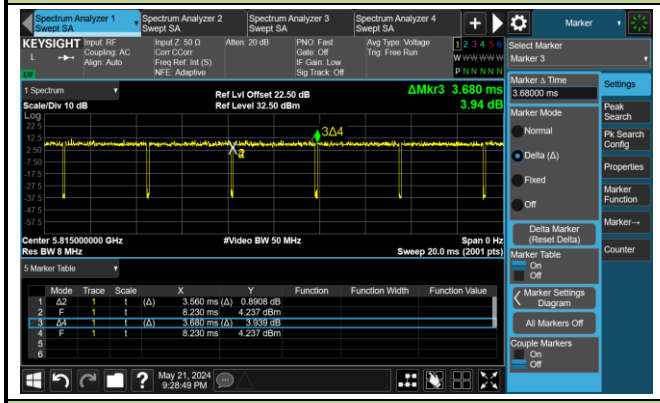


802.11ac-VHT80 (T = 2.674ms)

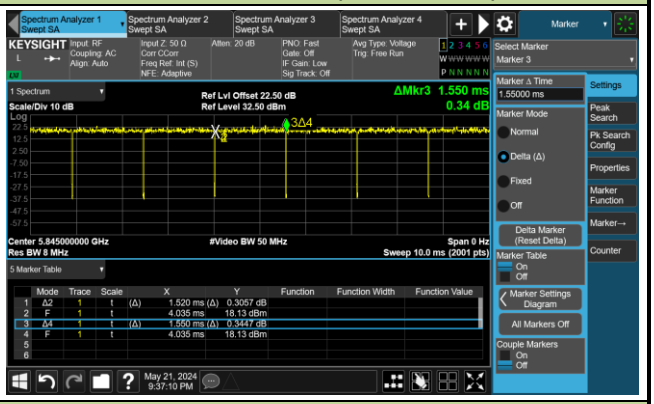


Duty Cycle (T = Transmission Duration)

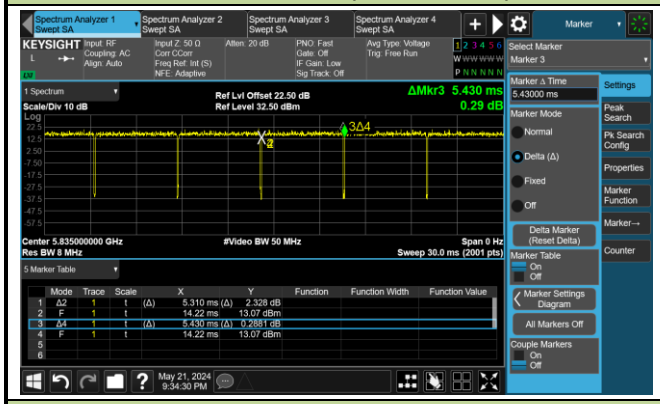
802.11ac-VHT160 (T = 3.560ms)



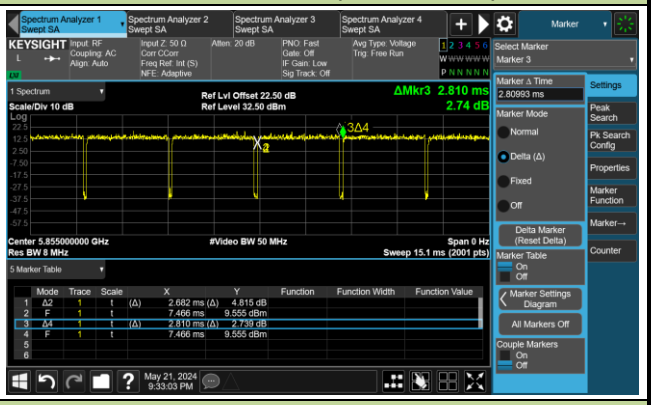
802.11ax-HE20 (T = 1.520ms)



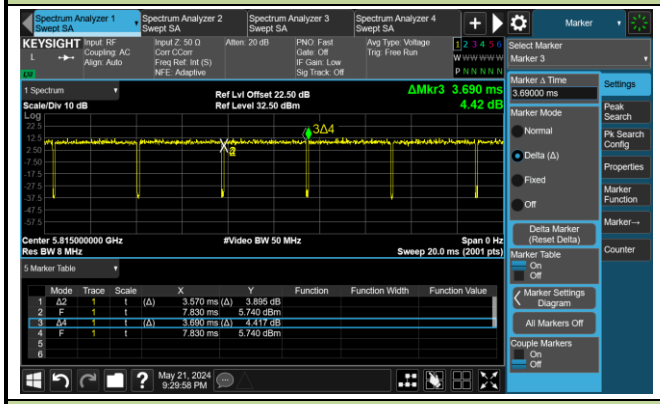
802.11ax-HE40 (T = 5.310ms)



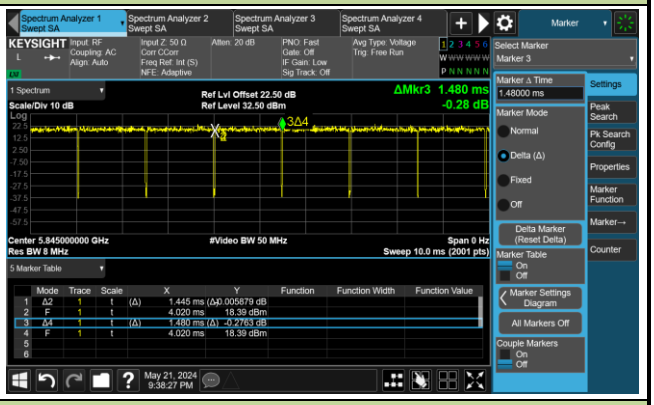
802.11ax-HE80 (T = 2.682ms)



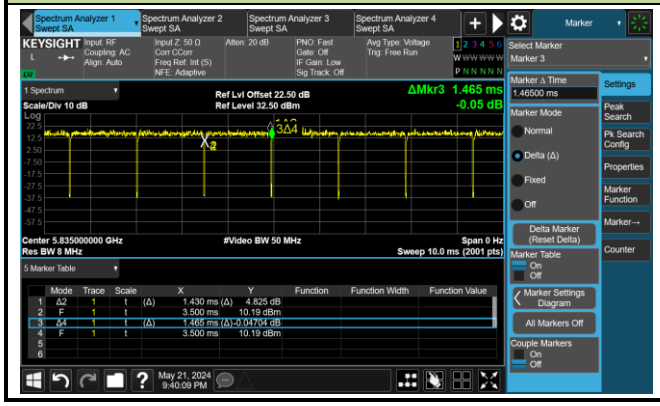
802.11ax-HE160 (T = 3.570ms)



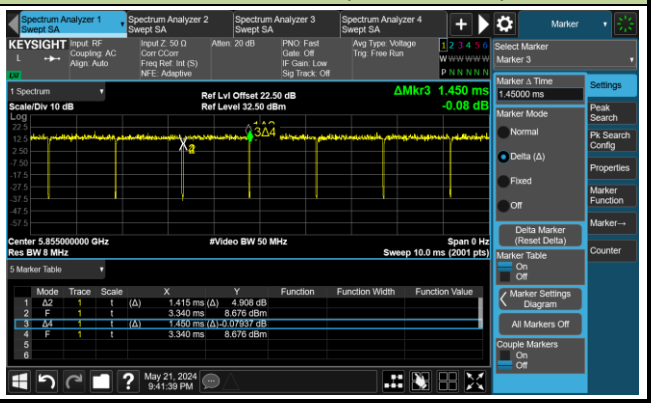
802.11be-EHT20 (T = 1.445ms)

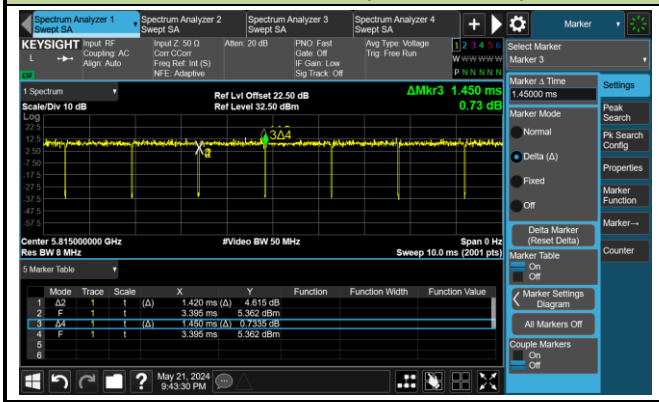


802.11be-EHT40 (T = 1.430ms)



802.11be-EHT80 (T = 1.415ms)

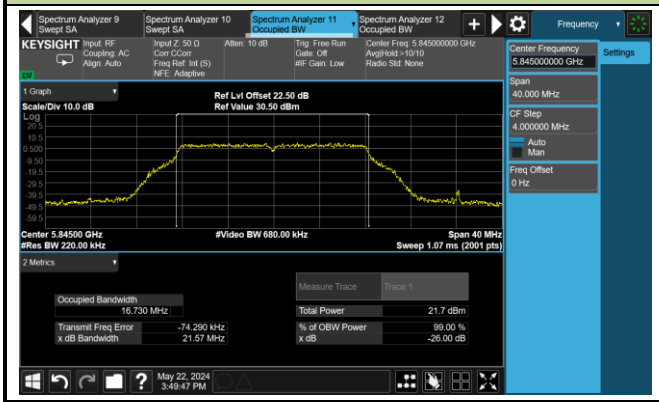
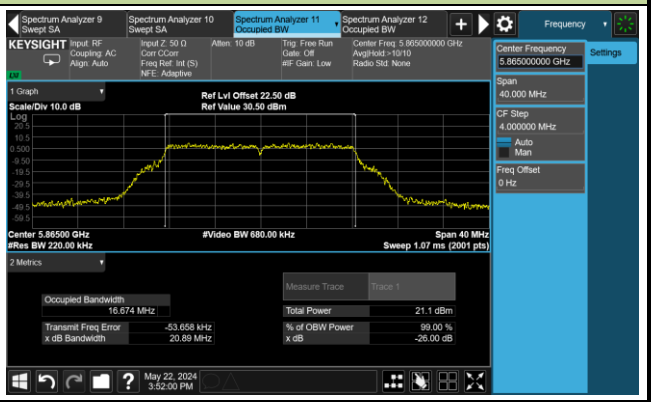
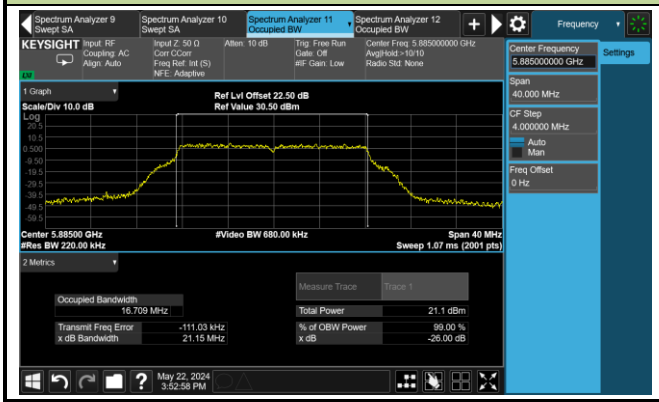


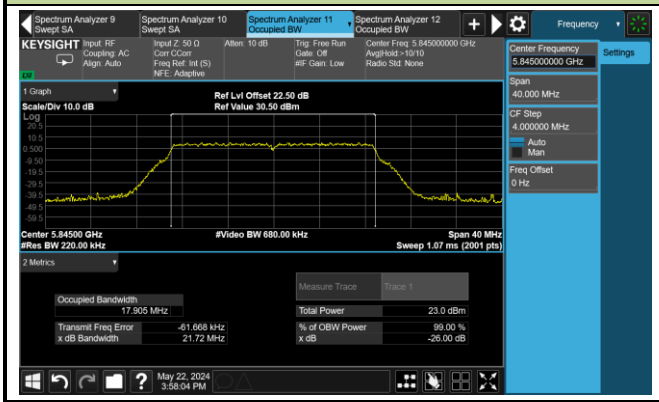
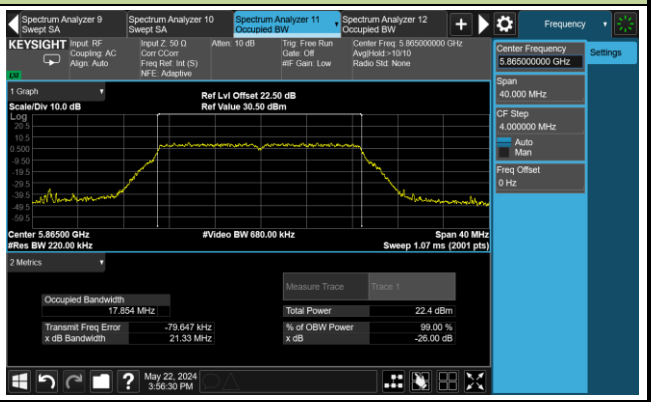
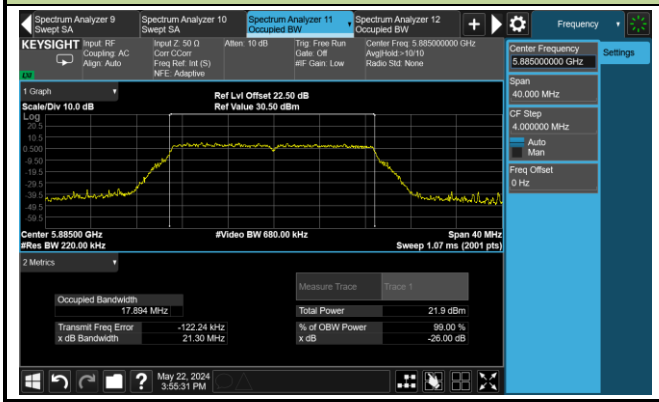
Duty Cycle (T = Transmission Duration)	
802.11be-EHT160 (T = 1.420ms)	
	

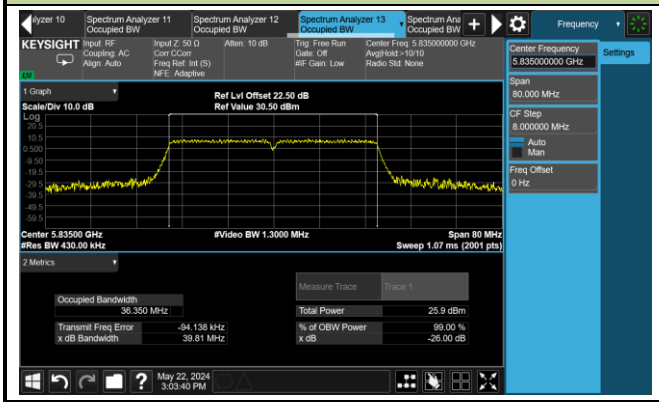
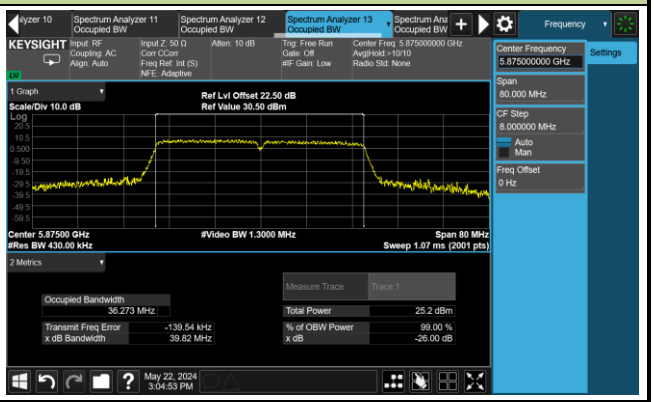
A.2 26dB & 99% Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2024-05-22		

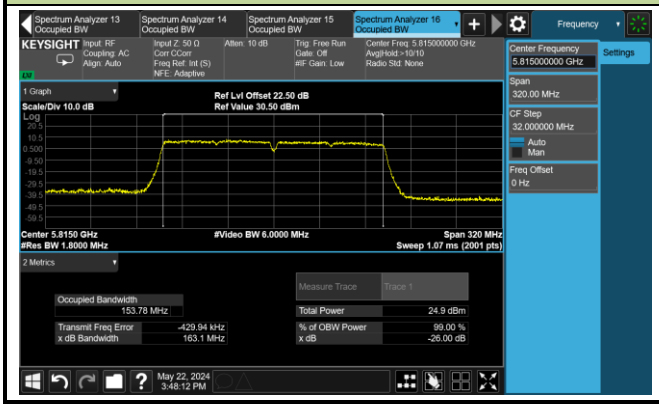
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
11a	6Mbps	169	5845	16.730	21.57
11a	6Mbps	173	5865	16.674	20.89
11a	6Mbps	177	5885	16.709	21.15
11ac-VHT20	MCS0	169	5845	17.905	21.72
11ac-VHT20	MCS0	173	5865	17.854	21.33
11ac-VHT20	MCS0	177	5885	17.894	21.30
11ac-VHT40	MCS0	167	5835	36.350	39.81
11ac-VHT40	MCS0	175	5875	36.273	39.82
11ac-VHT80	MCS0	171	5855	75.515	81.20
11ac-VHT160	MCS0	163	5815	153.780	163.10
11ax-HE20	MCS0	169	5845	19.100	21.83
11ax-HE20	MCS0	173	5865	19.052	21.51
11ax-HE20	MCS0	177	5885	19.097	21.60
11ax-HE40	MCS0	167	5835	37.789	40.31
11ax-HE40	MCS0	175	5875	37.667	40.32
11ax-HE80	MCS0	171	5855	76.977	81.11
11ax-HE160	MCS0	163	5815	155.790	163.50
11be-EHT20	MCS0	169	5845	19.041	21.59
11be-EHT20	MCS0	173	5865	19.119	21.65
11be-EHT20	MCS0	177	5885	19.096	21.38
11be-EHT40	MCS0	167	5835	37.760	40.59
11be-EHT40	MCS0	175	5875	37.692	41.00
11be-EHT80	MCS0	171	5855	77.059	81.17
11be-EHT160	MCS0	163	5815	155.920	163.50

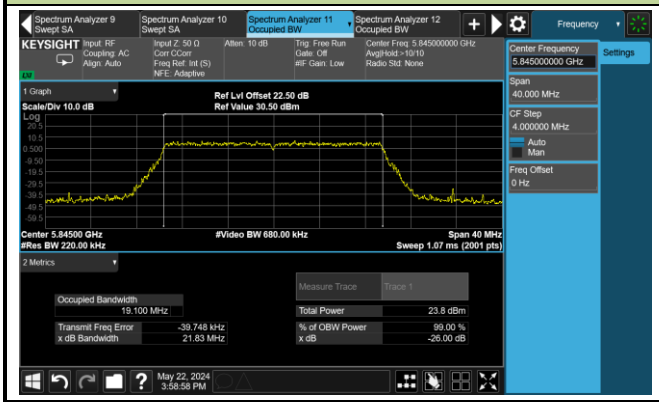
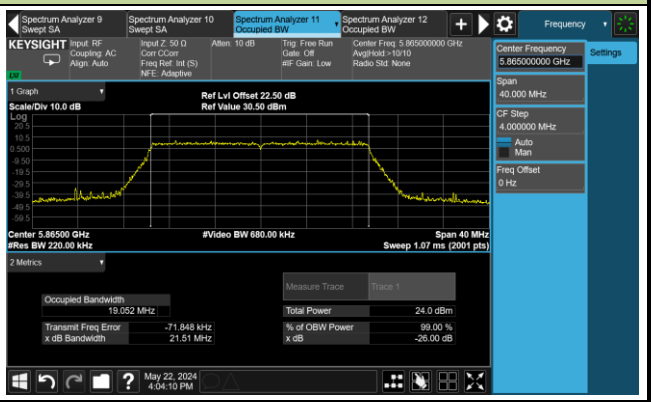
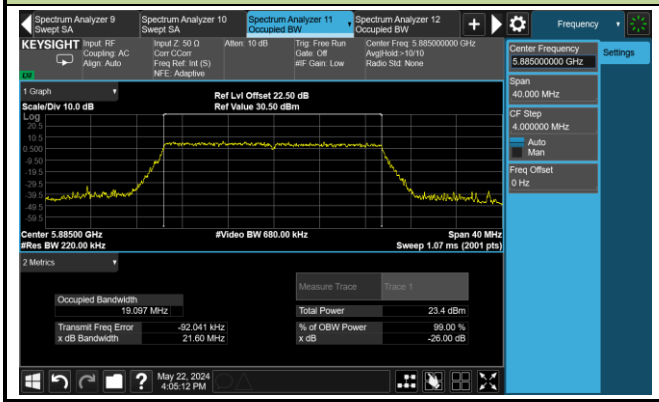
802.11a 26dB & 99% Bandwidth	
Channel 169 (5845MHz)	Channel 173 (5865MHz)
	
Channel 177 (5885MHz)	
	

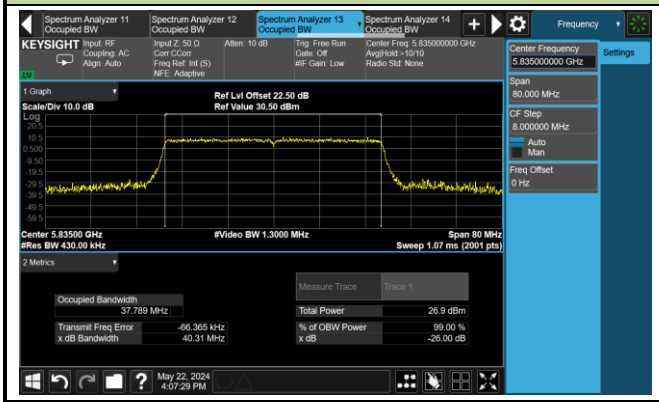
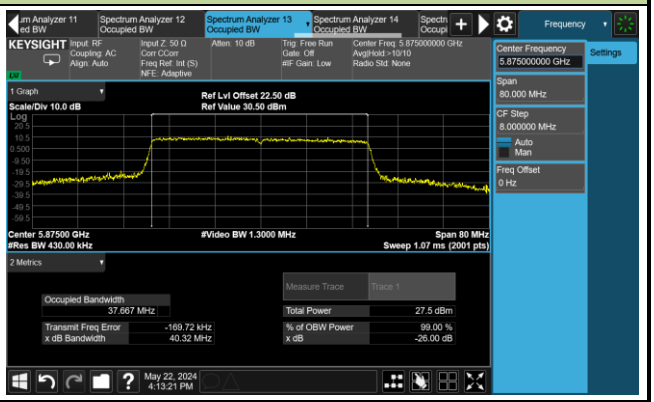
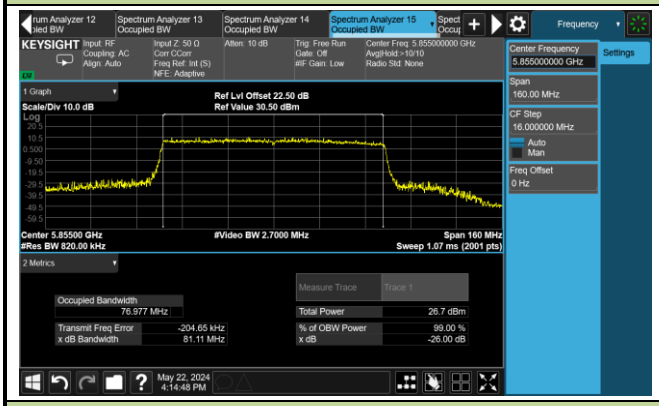
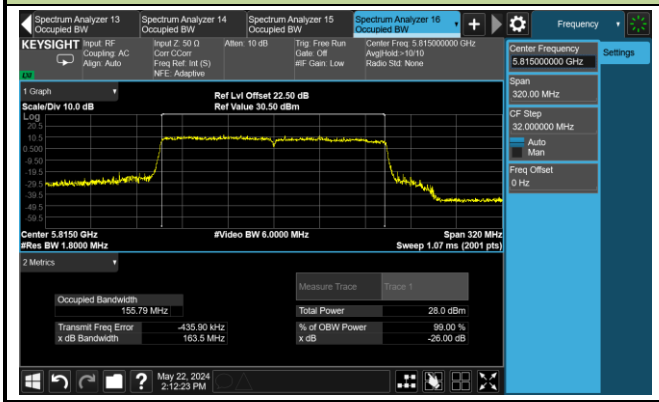
802.11ac-VHT20 26dB & 99% Bandwidth	
Channel 169 (5845MHz)	Channel 173 (5865MHz)
	
Channel 177 (5885MHz)	
	

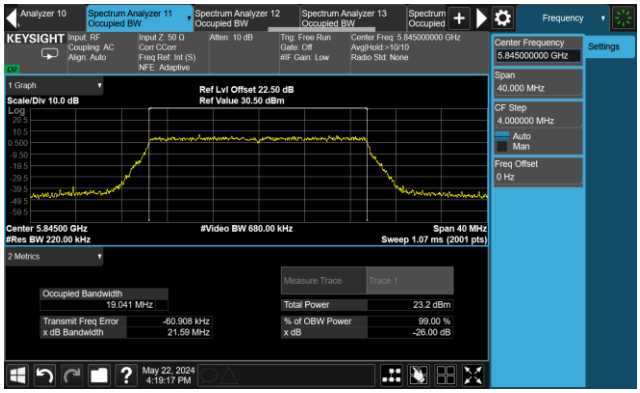
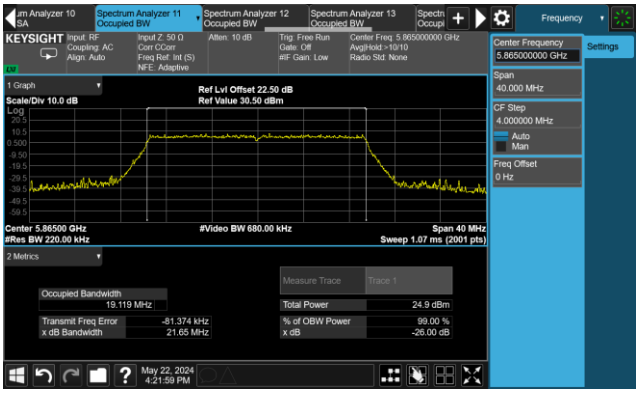
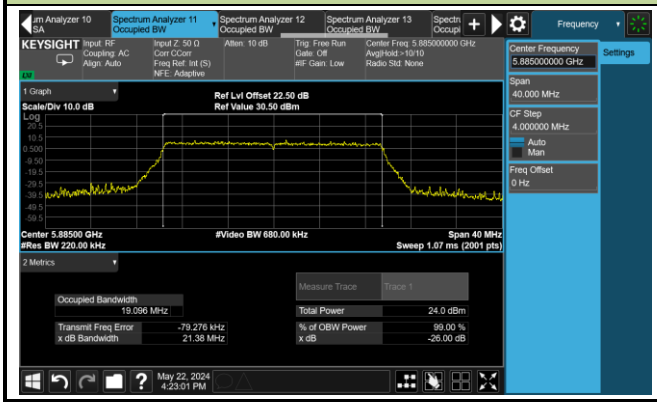
802.11ac-VHT40 26dB & 99% Bandwidth	
Channel 167 (5835MHz)	Channel 175(5875MHz)
	

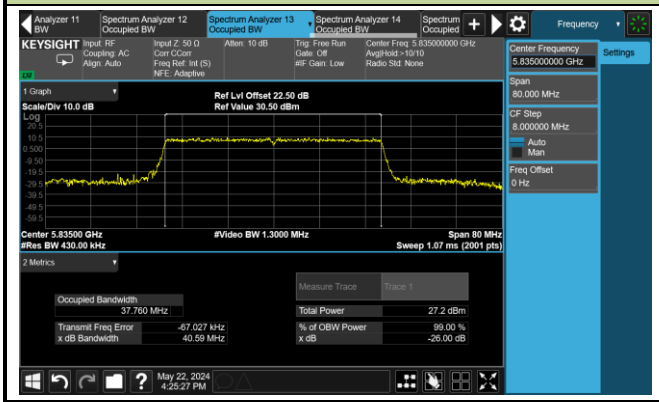
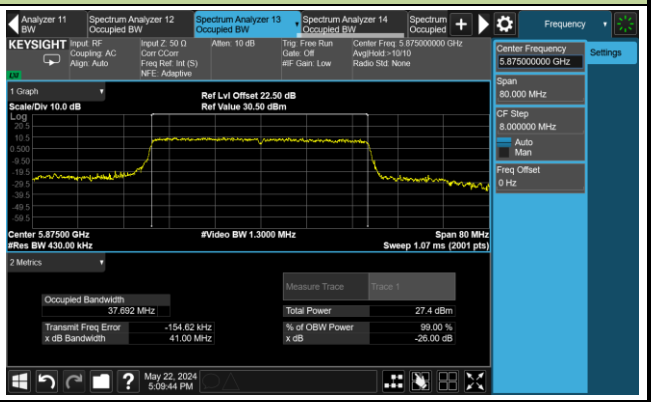
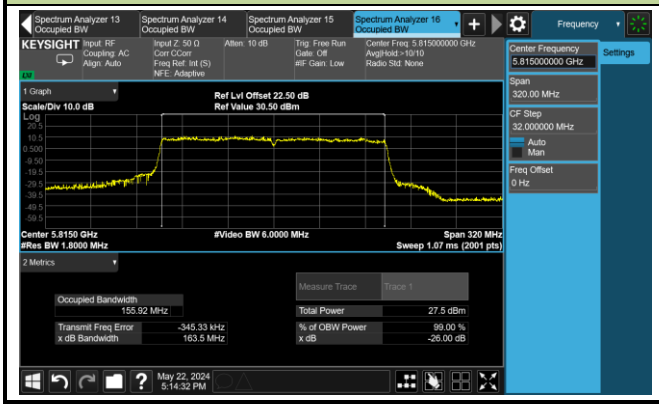
802.11ac-VHT80 26dB & 99% Bandwidth	
Channel 171 (5855MHz)	

802.11ac-VHT160 26dB & 99% Bandwidth	
Channel 163 (5815MHz)	
	

802.11ax-HE20 26dB & 99% Bandwidth	
Channel 169 (5845MHz)	Channel 173 (5865MHz)
	
Channel 177 (5885MHz)	
	

802.11ax-HE40 26dB & 99% Bandwidth	
Channel 167 (5835MHz)	Channel 175(5875MHz)
	
802.11ax-HE80 26dB & 99% Bandwidth	
Channel 171 (5855MHz)	
	
802.11ax-HE160 26dB & 99% Bandwidth	
Channel 163 (5815MHz)	
	

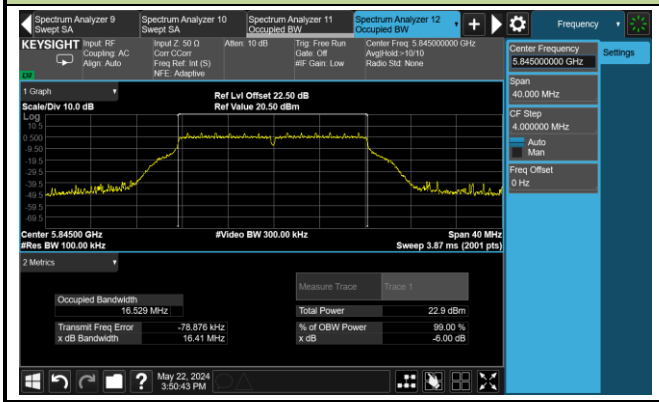
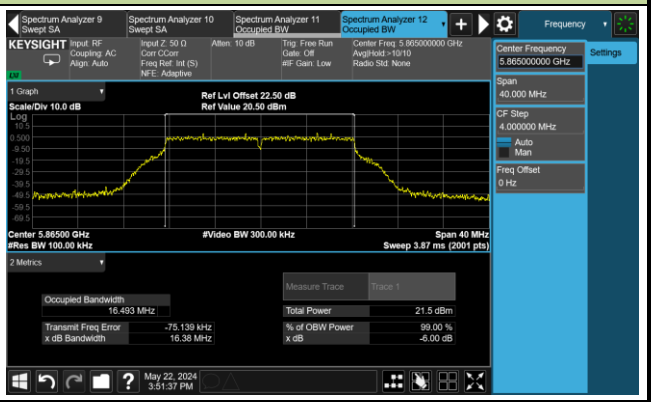
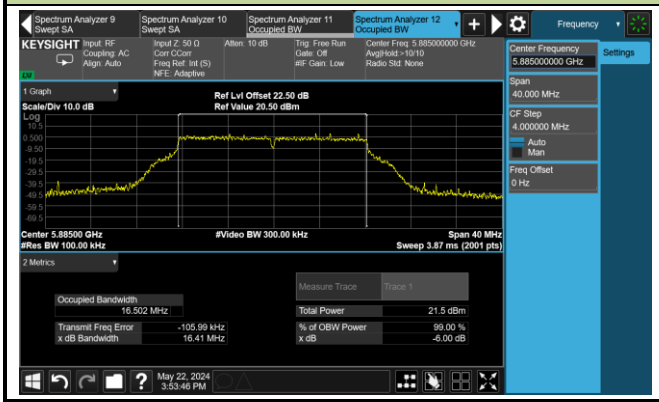
802.11be-EHT20 26dB & 99% Bandwidth	
Channel 169 (5845MHz)	Channel 173 (5865MHz)
	
Channel 177 (5885MHz)	
	

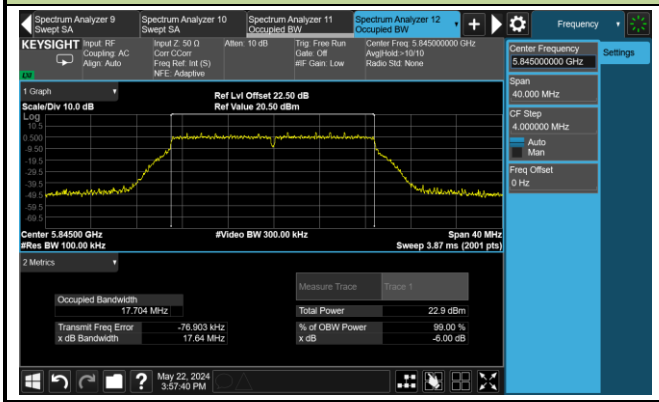
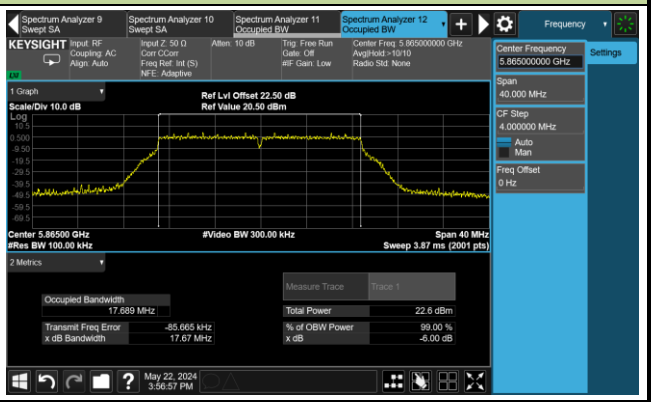
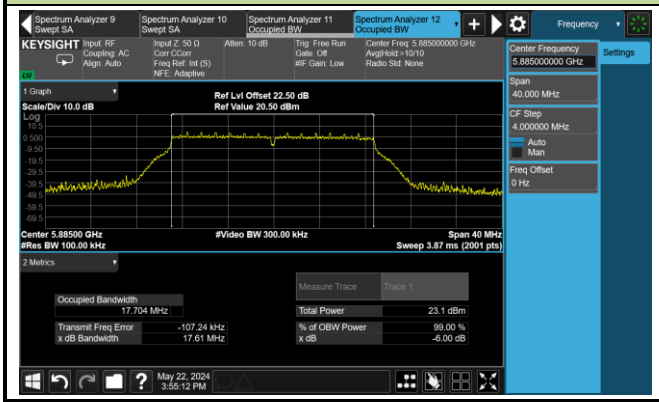
802.11be-EHT40 26dB & 99% Bandwidth	
Channel 167 (5835MHz)	Channel 175(5875MHz)
	
802.11be-EHT80 26dB & 99% Bandwidth	
Channel 171 (5855MHz)	
802.11be-EHT160 26dB & 99% Bandwidth	
Channel 163 (5815MHz)	
	

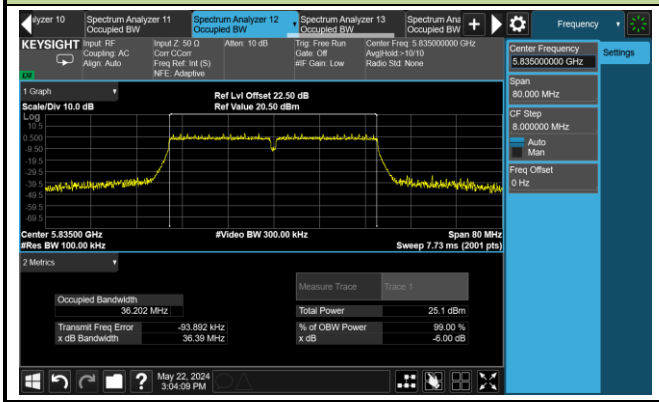
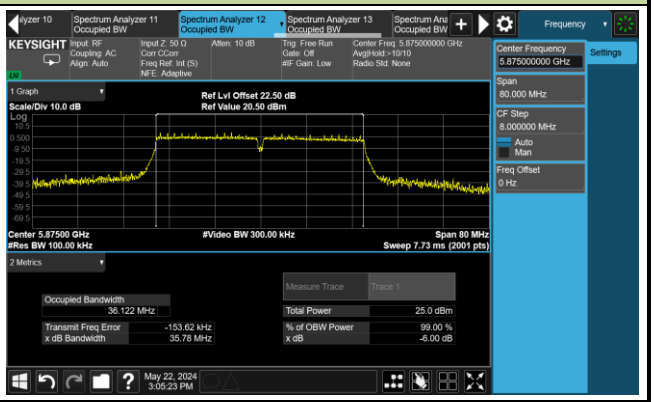
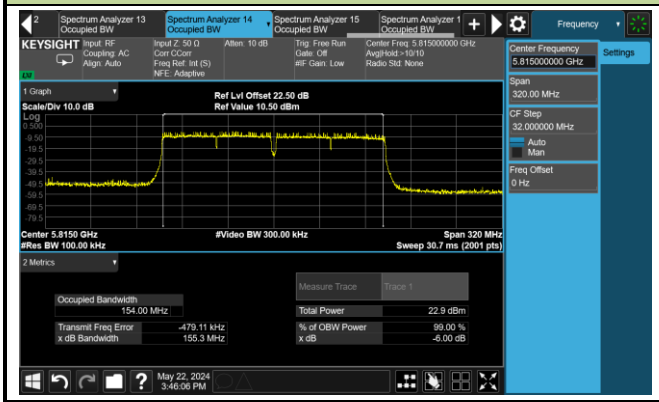
A.3 6dB Bandwidth Test Result

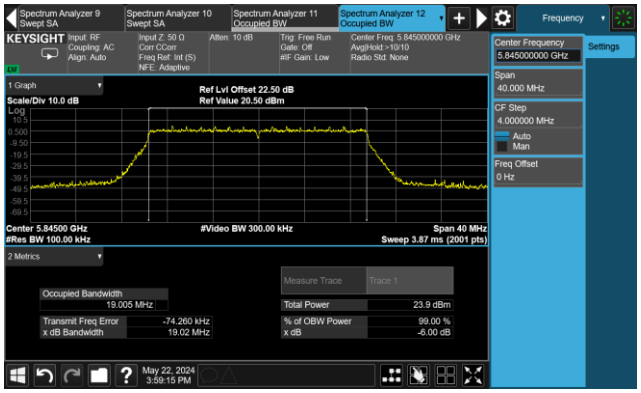
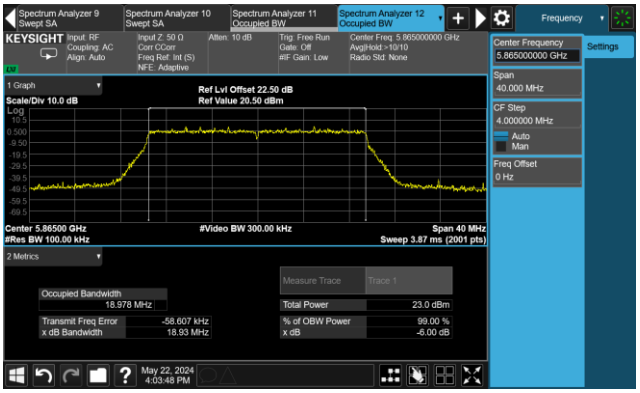
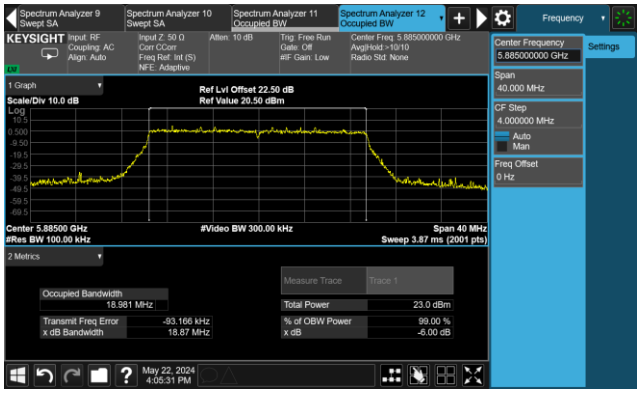
Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2024-05-22		

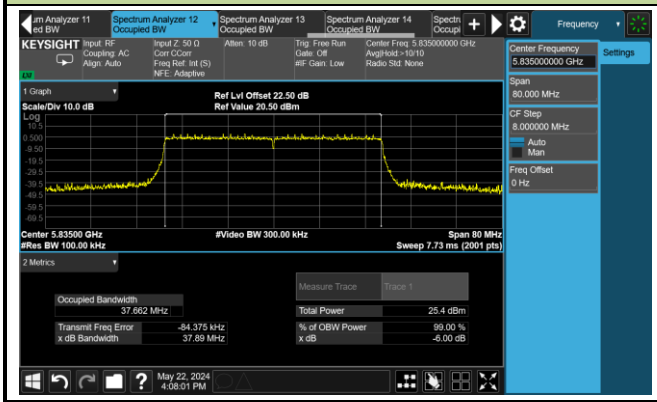
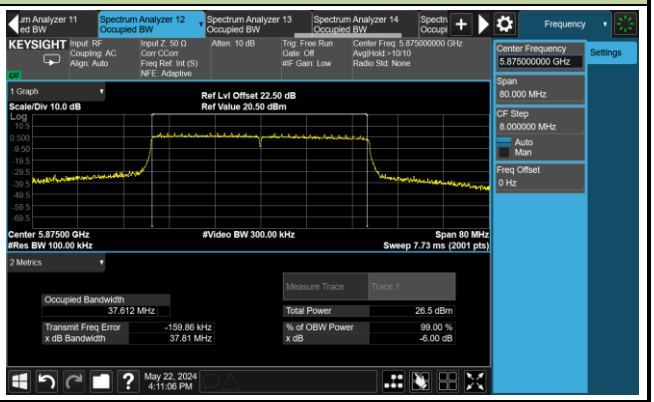
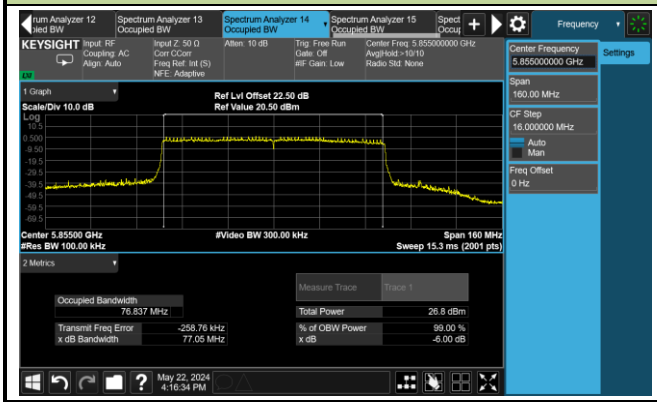
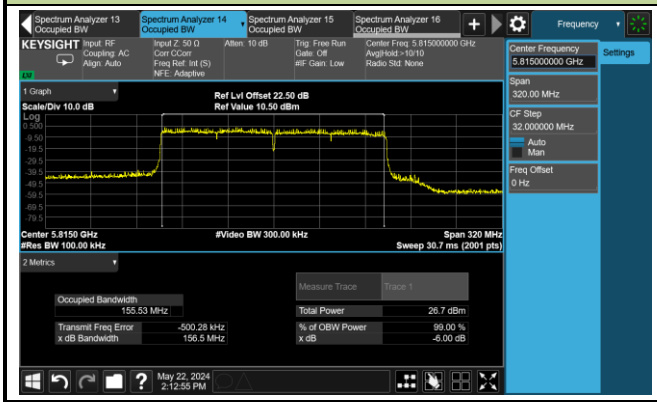
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11a	6Mbps	169	5845	16.41	≥ 0.5
11a	6Mbps	173	5865	16.38	≥ 0.5
11a	6Mbps	177	5885	16.41	≥ 0.5
11ac-VHT20	MCS0	169	5845	17.64	≥ 0.5
11ac-VHT20	MCS0	173	5865	17.67	≥ 0.5
11ac-VHT20	MCS0	177	5885	17.61	≥ 0.5
11ac-VHT40	MCS0	167	5835	36.39	≥ 0.5
11ac-VHT40	MCS0	175	5875	35.78	≥ 0.5
11ac-VHT80	MCS0	171	5855	75.78	≥ 0.5
11ac-VHT160	MCS0	163	5815	155.3	≥ 0.5
11ax-HE20	MCS0	169	5845	19.02	≥ 0.5
11ax-HE20	MCS0	173	5865	18.93	≥ 0.5
11ax-HE20	MCS0	177	5885	18.87	≥ 0.5
11ax-HE40	MCS0	167	5835	37.89	≥ 0.5
11ax-HE40	MCS0	175	5875	37.81	≥ 0.5
11ax-HE80	MCS0	171	5855	77.05	≥ 0.5
11ax-HE160	MCS0	163	5815	156.5	≥ 0.5
11be-EHT20	MCS0	169	5845	19.00	≥ 0.5
11be-EHT20	MCS0	173	5865	18.99	≥ 0.5
11be-EHT20	MCS0	177	5885	19.06	≥ 0.5
11be-EHT40	MCS0	167	5835	37.95	≥ 0.5
11be-EHT40	MCS0	175	5875	37.76	≥ 0.5
11be-EHT80	MCS0	171	5855	77.09	≥ 0.5
11be-EHT160	MCS0	163	5815	156.5	≥ 0.5

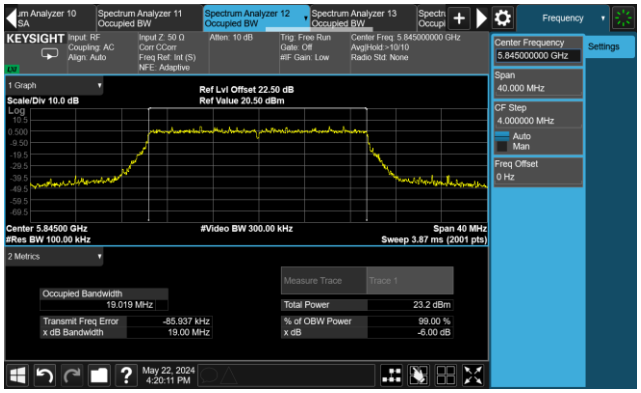
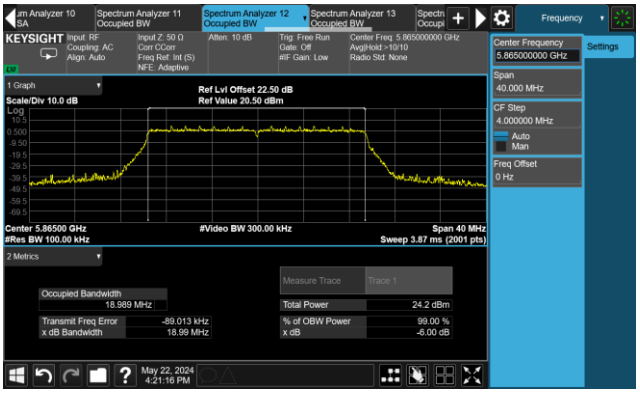
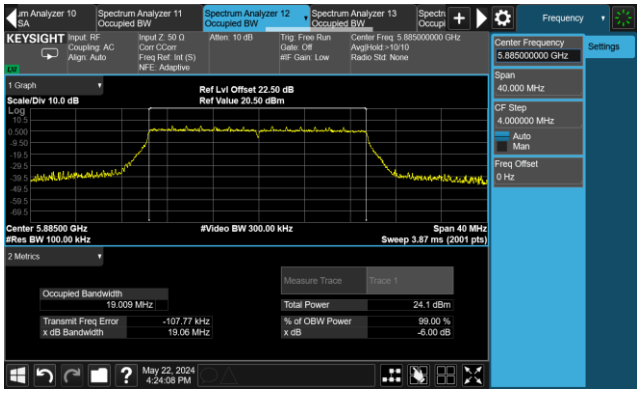
802.11a 6dB Bandwidth	
Channel 169 (5845MHz)	Channel 173 (5865MHz)
	
Channel 177 (5885MHz)	
	

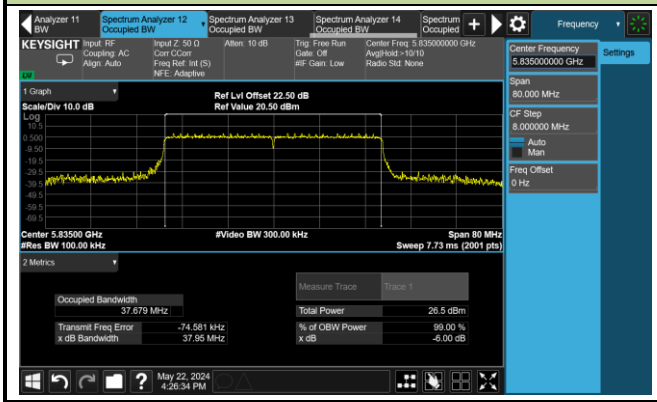
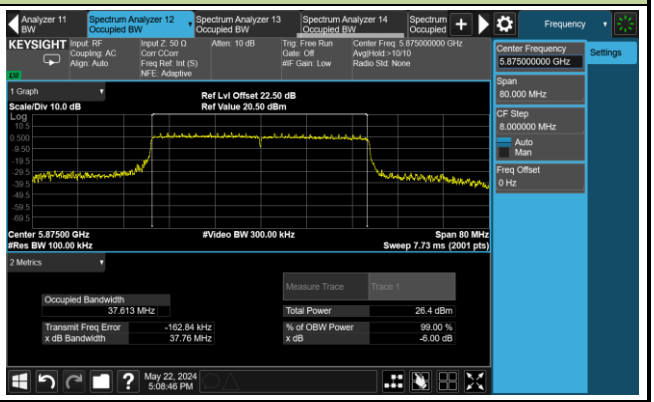
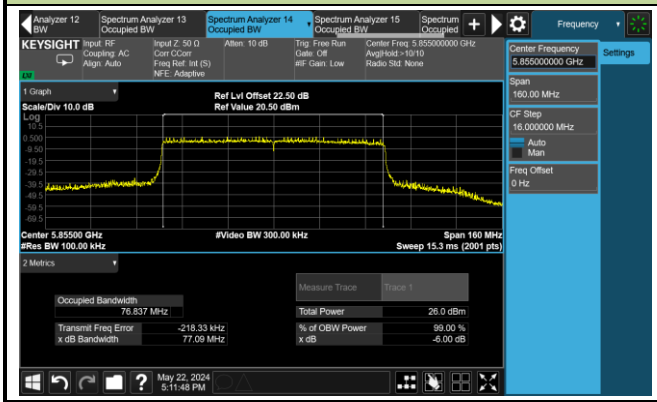
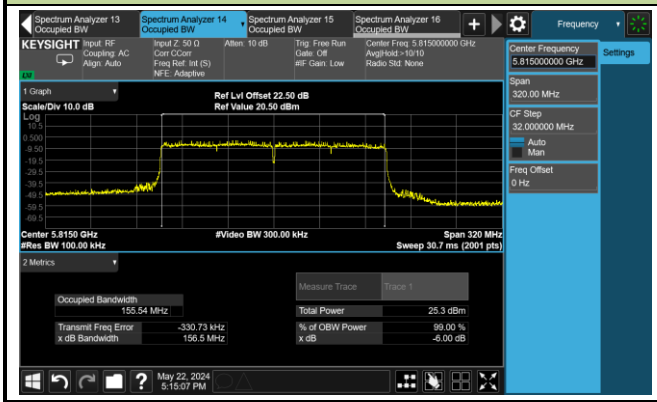
802.11ac-VHT20 6dB Bandwidth	
Channel 169 (5845MHz)	Channel 173 (5865MHz)
	
Channel 177 (5885MHz)	
	

802.11ac-VHT40 6dB Bandwidth	
Channel 167 (5835MHz)	Channel 175(5875MHz)
	
802.11ac-VHT80 6dB Bandwidth	
Channel 171 (5855MHz)	
802.11ac-VHT160 6dB Bandwidth	
Channel 163 (5815MHz)	
	

802.11ax-HE20 6dB Bandwidth	
Channel 169 (5845MHz)	Channel 173 (5865MHz)
	
Channel 177 (5885MHz)	
	

802.11ax-HE40 6dB Bandwidth	
Channel 167 (5835MHz)	Channel 175(5875MHz)
	
802.11ax-HE80 6dB Bandwidth	
Channel 171 (5855MHz)	
	
802.11ax-HE160 6dB Bandwidth	
Channel 163 (5815MHz)	
	

802.11be-EHT20 6dB Bandwidth	
Channel 169 (5845MHz)	Channel 173 (5865MHz)
	
Channel 177 (5885MHz)	
	

802.11be-EHT40 6dB Bandwidth	
Channel 167 (5835MHz)	Channel 175(5875MHz)
	
802.11be-EHT80 6dB Bandwidth	
Channel 171 (5855MHz)	
	
802.11be-EHT160 6dB Bandwidth	
Channel 163 (5815MHz)	
	

A.4 Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-06-26		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)				Total Average Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
				Ant 1	Ant 2	Ant 3	Ant 4				
11a	6Mbps	169	5845	15.45	15.80	15.86	15.53	21.68	3.60	25.28	≤ 36.00
11a	6Mbps	173	5865	15.73	15.55	15.91	15.63	21.73	3.60	25.33	≤ 36.00
11a	6Mbps	177	5885	15.59	15.09	15.53	14.96	21.32	3.60	24.92	≤ 36.00
11ac-VHT20	MCS0	169	5845	16.06	16.21	16.46	16.25	22.27	3.60	25.87	≤ 36.00
11ac-VHT20	MCS0	173	5865	15.93	16.15	16.21	16.00	22.09	3.60	25.69	≤ 36.00
11ac-VHT20	MCS0	177	5885	15.65	15.28	15.83	15.53	21.60	3.60	25.20	≤ 36.00
11ac-VHT40	MCS0	167	5835	18.37	18.36	18.32	18.06	24.30	3.60	27.90	≤ 36.00
11ac-VHT40	MCS0	175	5875	18.29	17.89	18.02	17.66	23.99	3.60	27.59	≤ 36.00
11ac-VHT80	MCS0	171	5855	18.12	18.25	18.40	18.15	24.25	3.60	27.85	≤ 36.00
11ac-VHT160	MCS0	163	5815	15.13	15.05	15.16	14.87	21.07	3.60	24.67	≤ 36.00
11ax-HE20	MCS0	169	5845	16.37	16.62	16.75	16.29	22.53	3.60	26.13	≤ 36.00
11ax-HE20	MCS0	173	5865	15.85	15.88	16.05	15.95	21.95	3.60	25.55	≤ 36.00
11ax-HE20	MCS0	177	5885	15.95	15.62	15.95	15.45	21.77	3.60	25.37	≤ 36.00
11ax-HE40	MCS0	167	5835	18.18	18.23	18.30	18.36	24.29	3.60	27.89	≤ 36.00
11ax-HE40	MCS0	175	5875	18.48	18.10	18.26	17.76	24.18	3.60	27.78	≤ 36.00
11ax-HE80	MCS0	171	5855	18.16	18.24	18.27	17.95	24.18	3.60	27.78	≤ 36.00
11ax-HE160	MCS0	163	5815	18.08	18.16	18.12	17.78	24.06	3.60	27.66	≤ 36.00
11be-EHT20	MCS0	169	5845	16.18	16.46	16.58	16.35	22.42	3.60	26.02	≤ 36.00
11be-EHT20	MCS0	173	5865	16.23	16.05	16.30	15.93	22.15	3.60	25.75	≤ 36.00
11be-EHT20	MCS0	177	5885	15.98	15.68	15.88	15.76	21.85	3.60	25.45	≤ 36.00
11be-EHT40	MCS0	167	5835	18.43	18.47	18.35	18.08	24.36	3.60	27.96	≤ 36.00
11be-EHT40	MCS0	175	5875	18.48	18.05	18.29	17.88	24.20	3.60	27.80	≤ 36.00
11be-EHT80	MCS0	171	5855	18.06	18.22	18.43	18.01	24.20	3.60	27.80	≤ 36.00
11be-EHT160	MCS0	163	5815	17.59	17.33	17.30	17.16	23.37	3.60	26.97	≤ 36.00

Note 1: Total Average Power (dBm) = $10*\log\{10^{(\text{Ant 1 Average Power}/10)} + 10^{(\text{Ant 2 Average Power}/10)} + 10^{(\text{Ant 3 Average Power}/10)} + 10^{(\text{Ant 4 Average Power}/10)}\}$ (dBm).

Note 2: EIRP (dBm) = Total Average Power (dBm) + Uncorrelated Gain (dBi).

A.5 Power Spectral Density Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2024-05-22 ~ 2024-05-23		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVGPSD (dBm/MHz)				Duty Cycle (%)	Total PSD (dBm/ MHz)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit (dBm/MHz)
				Ant 1	Ant 2	Ant 3	Ant 4				
11a	6Mbps	169	5845	3.954	4.098	4.216	3.683	97.80	10.11	19.61	≤ 20.00
11a	6Mbps	173	5865	4.274	4.041	4.437	4.039	97.80	10.32	19.82	≤ 20.00
11a	6Mbps	177	5885	4.138	3.791	4.157	3.765	97.80	10.08	19.58	≤ 20.00
11ac-VHT20	MCS0	169	5845	3.992	4.101	4.266	3.993	97.70	10.21	19.71	≤ 20.00
11ac-VHT20	MCS0	173	5865	4.193	4.003	4.229	4.026	97.70	10.24	19.74	≤ 20.00
11ac-VHT20	MCS0	177	5885	4.446	4.097	4.190	4.186	97.70	10.35	19.85	≤ 20.00
11ac-VHT40	MCS0	167	5835	3.318	3.409	3.595	3.068	97.40	9.49	18.99	≤ 20.00
11ac-VHT40	MCS0	175	5875	3.928	3.511	3.570	3.422	97.40	9.75	19.25	≤ 20.00
11ac-VHT80	MCS0	171	5855	0.345	0.646	0.672	0.491	95.67	6.75	16.25	≤ 20.00
11ac-VHT160	MCS0	163	5815	-5.549	-5.656	-5.756	-5.980	96.74	0.43	9.93	≤ 20.00
11ax-HE20	MCS0	169	5845	4.082	4.138	4.436	4.112	98.06	10.21	19.71	≤ 20.00
11ax-HE20	MCS0	173	5865	4.024	3.991	3.921	3.708	98.06	9.93	19.43	≤ 20.00
11ax-HE20	MCS0	177	5885	4.253	3.862	4.297	3.977	98.06	10.12	19.62	≤ 20.00
11ax-HE40	MCS0	167	5835	2.729	2.871	2.886	2.734	97.79	8.92	18.42	≤ 20.00
11ax-HE40	MCS0	175	5875	3.897	3.655	3.594	3.631	97.79	9.81	19.31	≤ 20.00
11ax-HE80	MCS0	171	5855	0.645	0.505	0.856	0.485	95.44	6.85	16.35	≤ 20.00
11ax-HE160	MCS0	163	5815	-2.133	-2.209	-2.415	-1.914	96.75	4.00	13.50	≤ 20.00
11be-EHT20	MCS0	169	5845	4.174	4.187	4.262	3.995	97.64	10.28	19.78	≤ 20.00
11be-EHT20	MCS0	173	5865	4.162	4.173	4.098	4.133	97.64	10.27	19.77	≤ 20.00
11be-EHT20	MCS0	177	5885	4.324	3.877	4.049	4.062	97.64	10.21	19.71	≤ 20.00
11be-EHT40	MCS0	167	5835	3.245	3.196	3.217	2.756	97.61	9.23	18.73	≤ 20.00
11be-EHT40	MCS0	175	5875	3.926	3.558	3.554	3.447	97.61	9.75	19.25	≤ 20.00
11be-EHT80	MCS0	171	5855	0.583	0.346	0.688	0.260	97.59	6.60	16.10	≤ 20.00
11be-EHT160	MCS0	163	5815	-2.864	-2.938	-3.433	-3.191	97.93	3.01	12.51	≤ 20.00

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) =10*log {$10^{(\text{Ant 1 AVGPSD}/10)}$ + $10^{(\text{Ant 2 AVGPSD}/10)}$ + $10^{(\text{Ant 3 AVGPSD}/10)}$ + $10^{(\text{Ant 4 AVGPSD}/10)}$} (dBm/MHz) +10*log (1/Duty cycle).

When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) =10*log {$10^{(\text{Ant 1 AVGPSD}/10)}$ + $10^{(\text{Ant 2 AVGPSD}/10)}$ + $10^{(\text{Ant 3 AVGPSD}/10)}$ + $10^{(\text{Ant 4 AVGPSD}/10)}$} (dBm/MHz).

Note 2: EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Correlated Gain (dBi).

Note 3: For Channels span the 5.725-5.850 GHz and 5.850-5.895 GHz bands, we record the maximum level of 5.725-5.850 GHz and 5.850-5.895 GHz with RBW=1MHz, and the level complied with the 5.850-5.895 GHz EIRP PSD Limit.