



RF MEASUREMENT REPORT

FCC ID: Q9DAPEX0764

Applicant: Hewlett Packard Enterprise Company

Product: ACCESS POINT

Model No.: APEX0764

Trademark: 
Hewlett Packard
Enterprise

FCC Classification: 15E 6GHz Standard Power Access Point (6SD)

FCC Rule Part(s): Part 15 Subpart E (Section 15.407)

Result: Complies

Received Date: 2025-04-08

Test Date: 2025-07-04 ~ 2025-09-29

Reviewed By:

Jame Yuan

Jame Yuan

Approved By:

Robin Wu

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. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific 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
R25S1029048-U205	V01	Initial Report	2026-02-05	Valid

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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 Location (Suzhou - Wujiang)			
	Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China			
☒	Laboratory Accreditations			
	A2LA: 3628.01		CNAS: L10551	
	FCC: CN1166		ISED: CN0001	
	VCCI:	☐ R-20025	☐ G-20034	☐ C-20020
		☐ R-20141	☐ G-20134	☐ C-20103
				☐ T-20020
☐	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.	APEX0764
Serial No.	VNTHMPM014 (Conducted) VNTHMPM012 (Radiated)
Software Version	version 17.10.369.61 (r WITEST)
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Bluetooth Specification	BLE only
GNSS Specification	GPS/Galileo
ZigBee Specification	802.15.4
Antenna Specification	Refer to Section 1.7
Operating Temp.	-40 ~ 55 °C
Operating Environment	Outdoor Use
Power Type	PoE Input
Accessories	
PoE Injector #1	Model No.: PD-9501-5GCO/AC Input: 100 – 240 V ~ 50-60Hz, 0.8 A Output: 54 V, 1.2 A
PoE Injector #2	Model No.: PD-9501-5GCO/DC Input: 10.8 ~ 30 Vdc, 8 A Output: 54 V, 1.2 A
Notes:	
1. The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.	
2. The PoE Injectors are not marketed in conjunction with the device.	

1.5. Radio Specification under Test

Frequency Range	UNII-5: 5925 ~ 6425 MHz UNII-7: 6525 ~ 6875 MHz	
Type of Modulation	802.11ax/be: OFDMA	
Data Rate	802.11ax: up to 2402 Mbps 802.11be: up to 2882.4 Mbps	
Channel Puncturing Function	☐ Supported	☒ Unsupported
Support RU	☒ Full RU	☐ Partial RU

1.6. Working Frequencies

802.11ax-HE20/be-EHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5955 MHz	5	5975 MHz	9	5995 MHz
13	6015 MHz	17	6035 MHz	21	6055 MHz
25	6075 MHz	29	6095 MHz	33	6115 MHz
37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz
61	6255 MHz	65	6275 MHz	69	6295 MHz
73	6315 MHz	77	6335 MHz	81	6355 MHz
85	6375 MHz	89	6395 MHz	93	6415 MHz
117	6535 MHz	121	6555 MHz	125	6575 MHz
129	6595 MHz	133	6615 MHz	137	6635 MHz
141	6655 MHz	145	6675 MHz	149	6695 MHz
153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz
177	6835 MHz	181	6855 MHz	--	--

802.11ax-HE40/be-EHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz
27	6085 MHz	35	6125 MHz	43	6165 MHz
51	6205 MHz	59	6245 MHz	67	6285 MHz
75	6325 MHz	83	6365 MHz	91	6405 MHz
123	6565 MHz	131	6605 MHz	139	6645 MHz
147	6685 MHz	155	6725 MHz	163	6765 MHz
171	6805 MHz	179	6845 MHz	--	--

802.11ax-HE80/be-EHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz
55	6225 MHz	71	6305 MHz	87	6385 MHz
135	6625 MHz	151	6705 MHz	167	6785 MHz

802.11ax-HE160/be-EHT160

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz
143	6665 MHz	--	--	--	--

1.7. Antenna Details

Polarization	Antenna Name	Frequency Band (GHz)	Max Peak Gain (dBi)	30 Degree Peak Gain (dBi)	Directional Gain (dBi)	
					For Power	For PSD
Wi-Fi External Antenna List (2*2 MIMO)						
Omni	AP-ANT-313	2.4 ~ 2.5	3.0	N/A	3.0	6.01
		5.15 ~ 5.85	6.0	-3.1	6.0	9.01
		5.9 ~ 7.2	6.0	0.9	6.0	9.01
Omni	ANT-2x2-256O-6	2.4 ~ 2.5	3.0	N/A	3.0	6.01
		5.15 ~ 5.85	6.0	-4.2	6.0	9.01
		5.9 ~ 7.2	6.0	1.9	6.0	9.01
Omni	eANT-2x2-56O-10	5.15 ~ 5.85	7.0	2.4	7.0	7.01
		5.9 ~ 7.2	7.1	2.0	7.1	7.11
Omni	ANT-311	2.4 ~ 2.5	3.0	N/A	3.0	6.01
		5.15 ~ 5.85	6.0	0.1	6.0	9.01
		5.9 ~ 7.2	6.0	-0.2	6.0	9.01
Omni	ANT-312	2.4 ~ 2.5	3.3	N/A	3.3	6.31
		5.15 ~ 5.85	3.3	0.0	3.3	6.31
		5.9 ~ 7.2	4.1	2.0	4.1	7.11
Omni	AP-ANT-312F	2.4 ~ 2.5	4.2	N/A	4.2	7.21
		5.15 ~ 5.85	2.9	1.8	2.9	5.91
		5.9 ~ 7.2	5.0	2.3	5.0	8.01
Directional (Note 4)	AP-ANT-325	2.4 ~ 2.5	6.1	N/A	6.1	6.1
		5.15 ~ 5.85	6.1	-7.0	6.1	6.1
		5.9 ~ 7.2	5.4	-5.0	5.4	5.4
Directional (Note 4)	AP-ANT-328	2.4 ~ 2.5	7.5	N/A	7.5	7.5
		5.15 ~ 5.85	8.0	-10.0	8.0	8.0
		5.9 ~ 7.2	8.0	-10.0	8.0	8.0
Directional (Note 4)	eANT-2x2-256D60-7	2.4 ~ 2.5	7.1	N/A	7.1	7.1
		5.15 ~ 5.85	7.2	-13.0	7.2	7.2
		5.9 ~ 7.2	7.2	-13.0	7.2	7.2
Directional (Note 4)	eANT-2x2-56D30-14	5.15 ~ 5.85	11.0	-4.4	11.0	11.0
		5.9 ~ 7.2	11.5	-5.8	11.5	11.5

Notes:

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. The antenna specification is provided by the applicant.
4. These antennas are cross polarized design and the detail refers to antenna specification.
5. Low gain antenna (AP-ANT-313) was selected to perform all RF testing that can get maximum power setting, high gain different type antenna (eANT-2x2-56D30-14) was selected to perform radiated spurious emission and band edge testing. High gain antenna power setting will be reduced according to difference value of antenna gain declared by 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 0 (Wi-Fi 2.4/5)	● Radio 0	● Radio 0 or 1	--	--
Ant 1 (Wi-Fi 2.4/5)	● Radio 0	● Radio 0 or 1	--	--
Ant 0 (Wi-Fi 6)	--	--	● Radio 1	--
Ant 1 (Wi-Fi 6)	--	--	● Radio 1	--
Core 0 (IOT)	--	--	--	● Core 0
Core 1 (IOT)	--	--	--	● Core 1
Ant 0 (GNSS)	GNSS			

Note: Radio 0 supports 2.4/5 GHz and radio 1 supports 5/6GHz.

The following are several modes of work:

Radio 0 2.4G and Radio 1 5G;

Radio 0 2.4G and Radio 1 6G;

Radio 0 5G and Radio 1 6G;

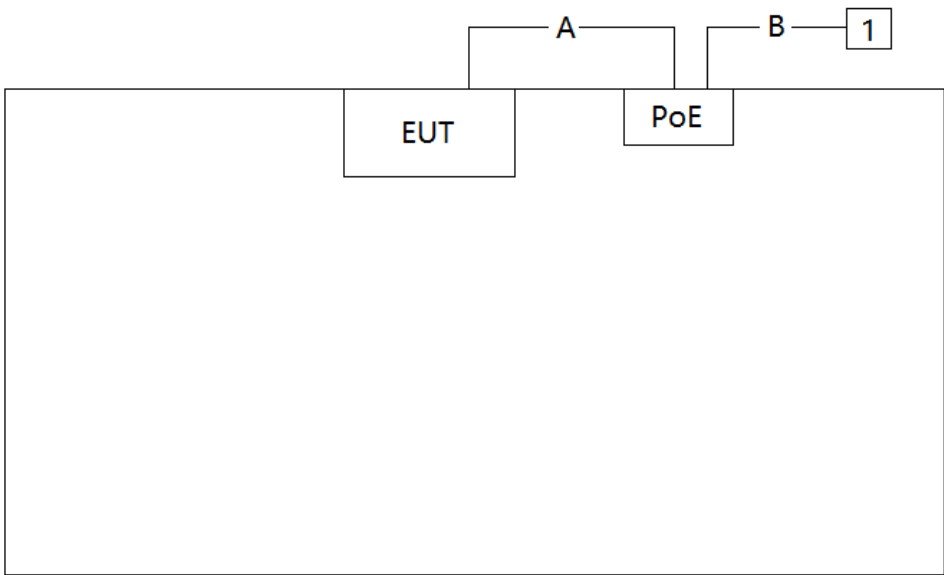
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by 802.11be-EHT20_Nss=1 (MCS0)
Mode 2: Transmit by 802.11be-EHT40_Nss=1 (MCS0)
Mode 3: Transmit by 802.11be-EHT80_Nss=1 (MCS0)
Mode 4: Transmit by 802.11be-EHT160_Nss=1 (MCS0)
Notes:
1. All modes of operation and data rates were investigated, so all RF test requirements shall be executed at the worst data rate.
2. 802.11ax and 802.11be have same modulation type and same power value, so we only show 802.11be test data in report.
3. For beamforming operation, manufacturer automatically backs power down based on a $10 \log(N_{ANT})$ factor 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 C63.10-2020 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

Connection Diagram			
			
Cable Type		Cable Description	Length
A	LAN Cable	Non shielded	2.0 m
B	LAN Cable	Non shielded	> 10 m
Product		Manufacturer	Model No.
1	Notebook	ThinkPad	Gen5 E14

2.3. Test Software

The test utility software used during testing was “accessMtool” and the version was “3.3.0.9”

2.4. Applied Standards

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

- ANSI C63.10-2020
- ANSI C63.10-2020/Cor1-2023
- ANSI C63.10a-2024
- FCC KDB 789033 D02 v02r01
- FCC KDB 987594 D02 v03
- FCC KDB 987594 D04 v03
- FCC KDB 662911 D01 v02r01
- FCC KDB 414788 D01 v01r01
- FCC KDB 412172 D01 v01r01

2.5. 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.”

Conclusion:

The product is defined as the professional installation of equipment by the manufacturer, there is no necessary to comply 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	ESR3	MRTSUE06185	1 year	2025-12-05	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2025-10-16	SIP-AC3
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06646	1 year	2025-07-29	SIP-AC3
					2026-07-03	
Preamplifier	EMCI	EMC012645SE	MRTSUE06642	1 year	2026-01-05	SIP-AC3
Signal Analyzer	Keysight	N9010B	MRTSUE06603	1 year	2025-09-05	SIP-AC3
					2026-08-31	
Horn Antenna	R&S	HF907	MRTSUE06611	1 year	2026-06-20	SIP-AC3
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2025-12-19	SIP-AC3
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2025-10-08	SIP-AC3
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06599	1 year	2025-09-08	SIP-AC3
					2026-08-18	
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07075	1 year	2025-11-19	SIP-AC3
Cable	HUBER+SUHNER	SF106	MRTSUE06873	1 year	2025-12-19	SIP-AC3
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2026-04-29	SIP-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2026-04-29	SIP-SR2
Four-Line V-Network	R&S	ENV432	MRTSUE06614	1 year	2025-10-13	SIP-SR2
Thermohygrometer	testo	608-H1	MRTSUE06621	1 year	2025-10-29	SIP-SR2
Shielding Room	MIX-BEP	SIP-SR2	MRTSUE06949	5 years	2029-10-13	SIP-SR2
USB Power Sensor	Keysight	U2021XA	MRTSUE06596	1 year	2025-07-23	SIP-TR1
					2026-07-14	
Signal Analyzer	Keysight	N9010B	MRTSUE07036	1 year	2026-01-21	SIP-TR1
Temperature Chamber	BAOYT	BYG-408CS	MRTSUE06847	1 year	2026-01-21	SIP-TR1
Thermohygrometer	testo	608-H1	MRTSUE11022	1 year	2025-10-16	SIP-TR1
Attenuator	MVE	MVE2213	MRTSUE11111	1 year	2025-08-01	SIP-TR1
					2026-07-31	

Software	Version	Function
e3	230711	EMI Test Software
Agilent Power Analyzer/Agilent Power Panel	V R03.09.00	Power
Controller_MF 7802BS	1.02	RE Antenna & Turntable

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: 9 kHz ~ 150 kHz: 3.58 dB 150 kHz ~ 30 MHz: 3.20 dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9 kHz ~ 30 MHz: 2.35 dB Coplanar: 9 kHz ~ 30 MHz: 2.37 dB Horizontal: 30 MHz ~ 200 MHz: 3.47 dB 200 MHz ~ 1 GHz: 4.17 dB 1 GHz ~ 40 GHz: 4.97 dB Vertical: 30 MHz ~ 200 MHz: 4.07 dB 200 MHz ~ 1 GHz: 5.28 dB 1 GHz ~ 40 GHz: 4.84 dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 2.5 dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 1.5 dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 2.5 dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2 U_c(y)$): 3.2%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(a)(11)	Channel Bandwidth	Conducted	Pass
15.407(a)(4)	Maximum Equivalent Isotropically Radiated Power (EIRP)		Pass
15.407(a)(4)	Maximum Power Spectral Density (EIRP)		Pass
15.407(b)(7)	In-Band Emission		Pass
15.407(g)	Frequency Stability		Pass
15.407(k)	Automated Frequency Coordination		Pass ^{Note 3}
15.407(b)(6)	Unwanted Emissions		Pass
15.407(b)(8), (9), (10)	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
15.207	AC Conducted Emissions 150 kHz - 30 MHz	Line Conducted	Pass

Notes:

1. The analyzer plots shown in this section were captured using a correction table to account for cable and attenuator losses in the system connecting the EUT to the analyzer across relevant frequencies.
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.
3. Automated Frequency Coordination refers to report "R25S1029048-U206".

6.2. Channel Bandwidth Measurement

6.2.1. Test Limit

The maximum transmitter channel bandwidth for U–NII devices in the 5.925–7.125 GHz band is 320 megahertz.

6.2.2. Test Procedure

KDB 789033 D02 v02r01- Section II)C)1) (26 dB Bandwidth)

KDB 789033 D02 v02r01- Section II)D) (99% Bandwidth)

6.2.3. Test Setting

26 dB Bandwidth

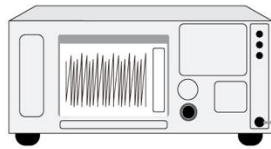
1. The analyzers' automatic bandwidth measurement capability was used to perform the 26 dB bandwidth
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the maximum of the 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. Equivalent Isotopically Radiated Power Measurement

6.3.1. Test Limit

For a standard access point operating in the 5.925 - 6.425 GHz and 6.525 – 6.875 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.

6.3.2. Test Procedure

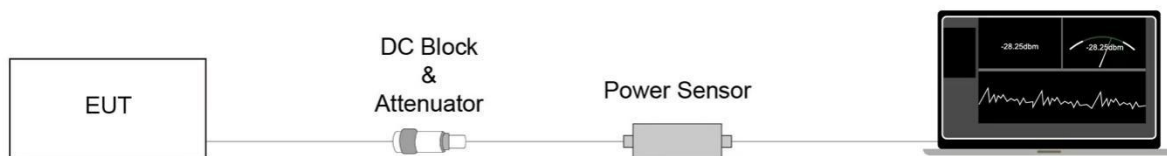
KDB 789033 D02 v02 r01- Section II)E)3)b) Method PM-G

6.3.3. 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.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Power Spectral Density Measurement

6.4.1. Test Limit

For a standard access point operating in the 5.925-6.425 GHz and 6.525 – 6.875 GHz band, the maximum power spectral density must not exceed 23 dBm e.i.r.p. in any 1-megahertz band.

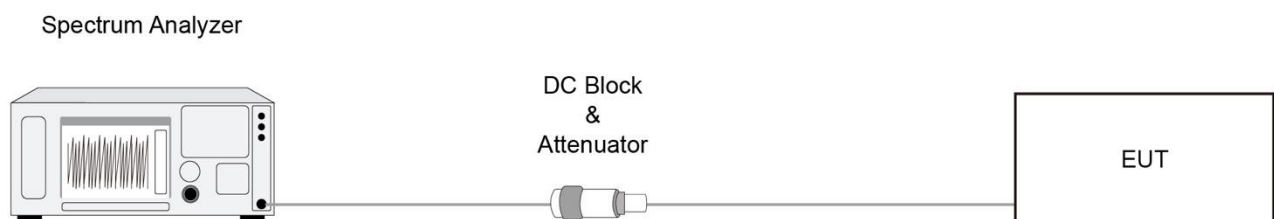
6.4.2. Test Procedure

KDB 789033 D02 v02 r01-Section II)F)

6.4.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26 dB EBW of the signal.
3. RBW = 1 MHz
4. VBW = 3 MHz
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.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. In-Band Emission Measurement

6.5.1. Test Limit

Suppressed by 20 dB at 1 MHz outside of the channel edge.

(The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)

Suppressed by 28 dB at one channel bandwidth from the channel center.

Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

6.5.2. Test Procedure

KDB 987594 D02 v03 - Section II)J)

6.5.3. Test Setting

Emissions Mask Reference Level Measurement

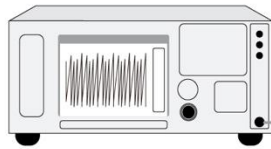
1. Set the span to encompass the entire 26 dB EBW of the signal.
2. Set RBW = same RBW used for 26 dB EBW measurement.
3. Set VBW $\geq 3 \times$ RBW.
4. Number of points in sweep $\geq [2 \times \text{span}/\text{RBW}]$.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Use the peak search function on the instrument to find the peak of the spectrum.

In-Band Emission

1. Using the measuring equipment limit line function, develop the emissions mask based on rule.
2. Adjust the span to encompass the entire mask as necessary.
3. Clear trace.
4. Trace average at least 100 traces in power averaging (rms) mode.
5. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

6.5.4. Test Setup

Spectrum Analyzer



DC Block
&
Attenuator



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:

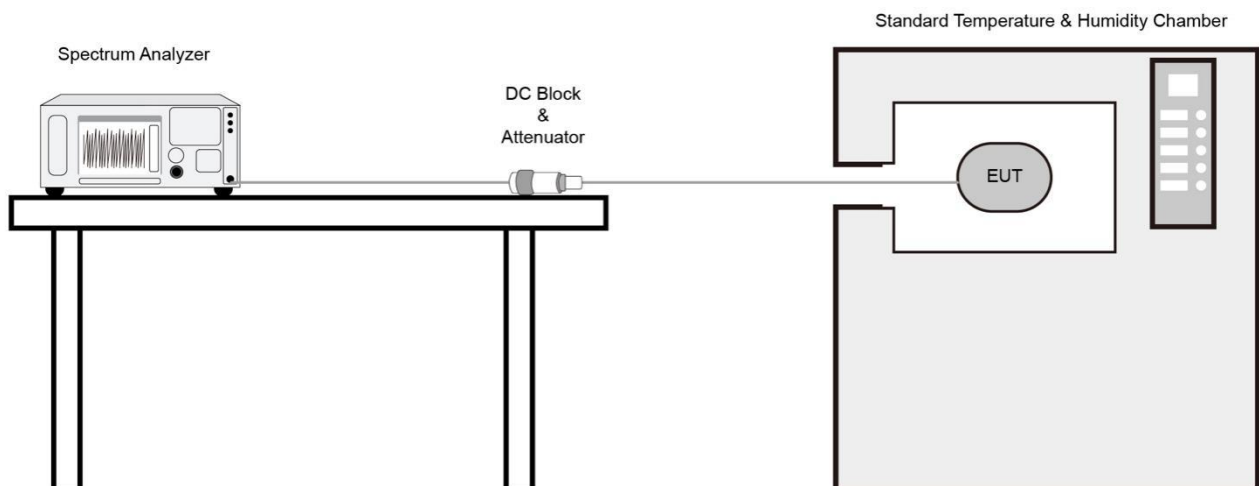
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain 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

For 15.407(b)(5) requirement

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

Refer to 987594 D02 U-NII 6 GHz EMC Measurement v03 clause G

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average 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 [μ V/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 D02 v02 r01-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
> 1000 MHz	1 MHz

Quasi-Peak Measurements below 1 GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1 MHz
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 1 GHz

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

Average Measurements above 1 GHz (Method VB)

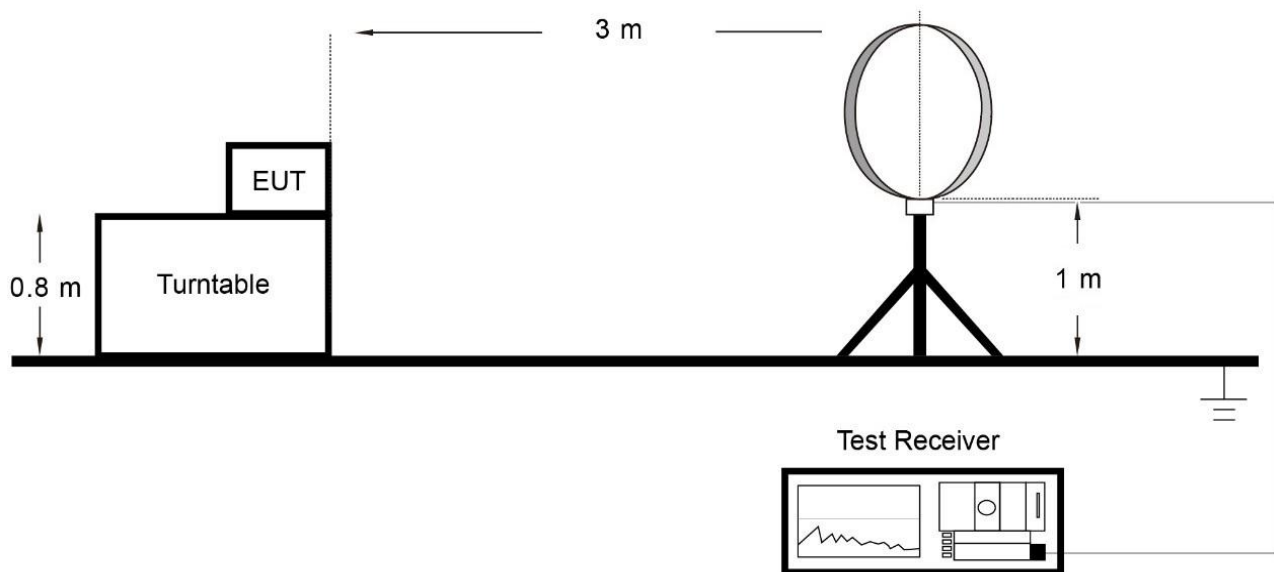
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.

802.11be-EHT20	VBW = 680 Hz	802.11be-EHT80	VBW = 2400 Hz
802.11be-EHT40	VBW = 1300 Hz	802.11be-EHT160	VBW = 4300 Hz

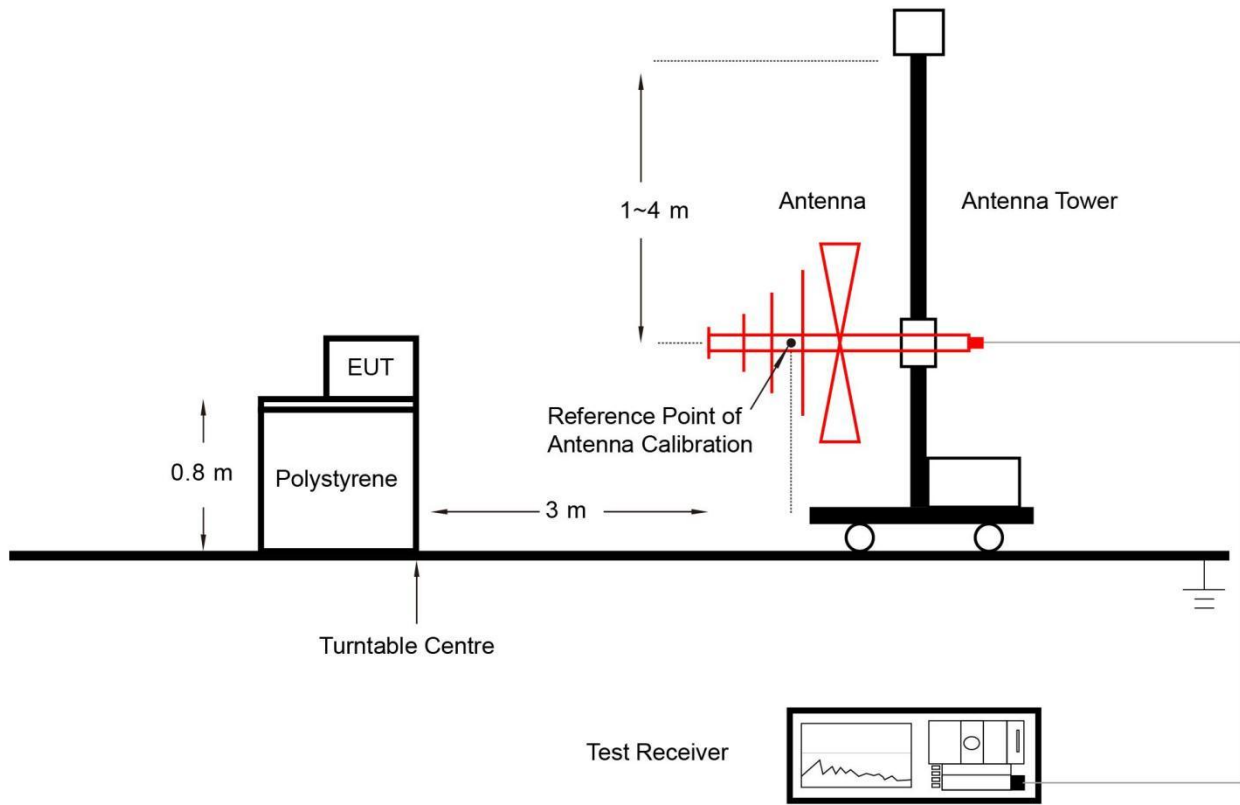
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.7.4. Test Setup

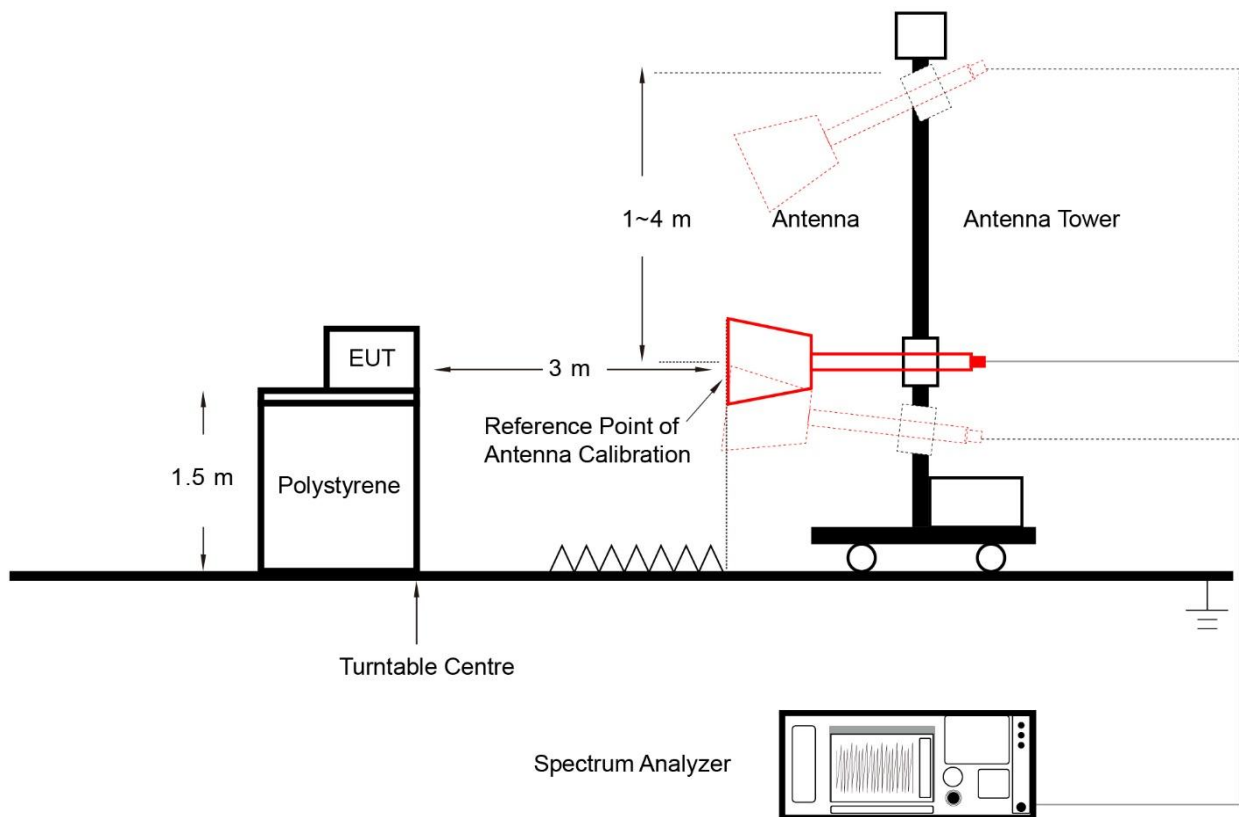
Below 30 MHz Test Setup:



Below 1 GHz Test Setup:



Above 1 GHz 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 15.407(b)(6) requirement:

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

Refer to 987594 D02 U-NII 6 GHz EMC Measurement v03 clause G - Unwanted Emission Measurement

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

6.8.2. Test Procedure

KDB 789033 D02 v02 r01-Section II)G)

6.8.3. Test Setting

Peak Measurements above 1 GHz

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

Average Measurements above 1 GHz (Method VB)

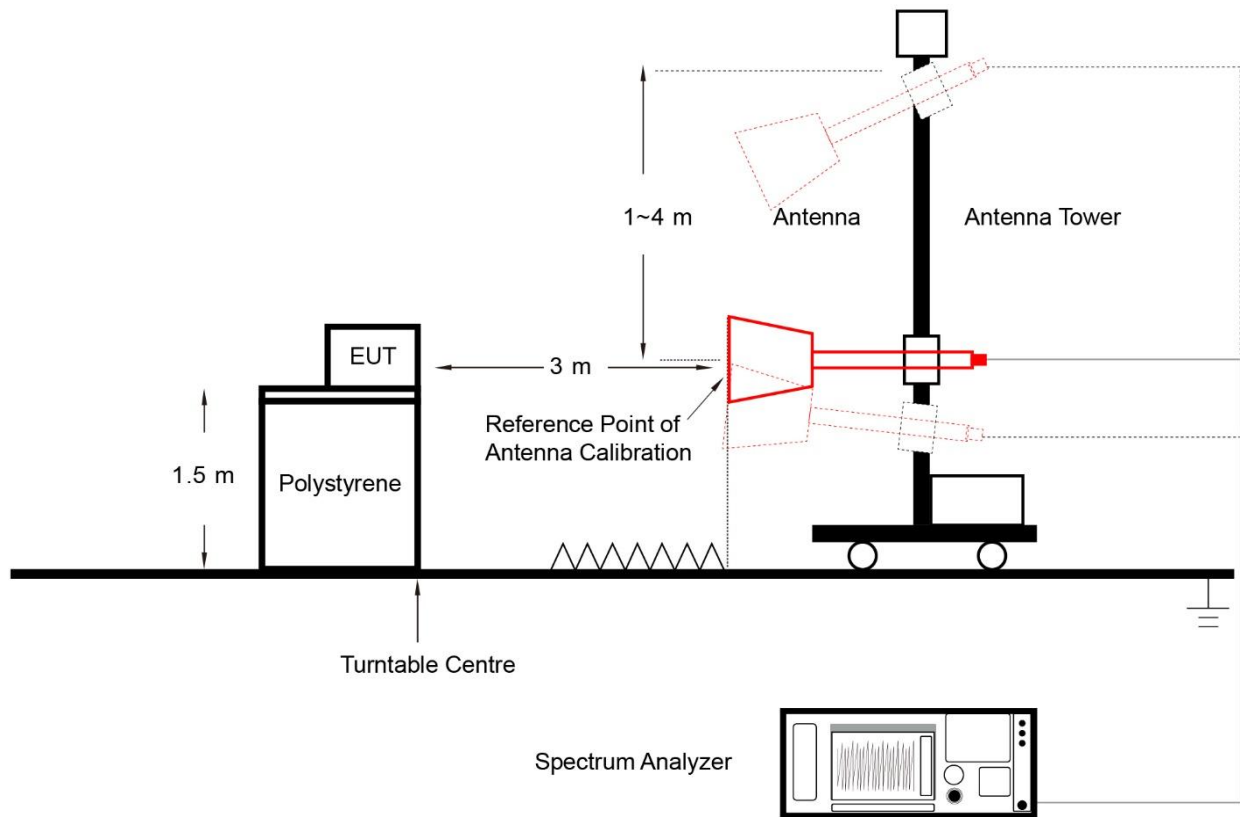
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1 MHz
3. VBW; if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz

If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.

802.11be-EHT20	VBW = 680 Hz	802.11be-EHT80	VBW = 2400 Hz
802.11be-EHT40	VBW = 1300 Hz	802.11be-EHT160	VBW = 4300 Hz

4. Detector = Peak
5. Sweep time = Auto
6. Trace mode = Max hold
7. 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

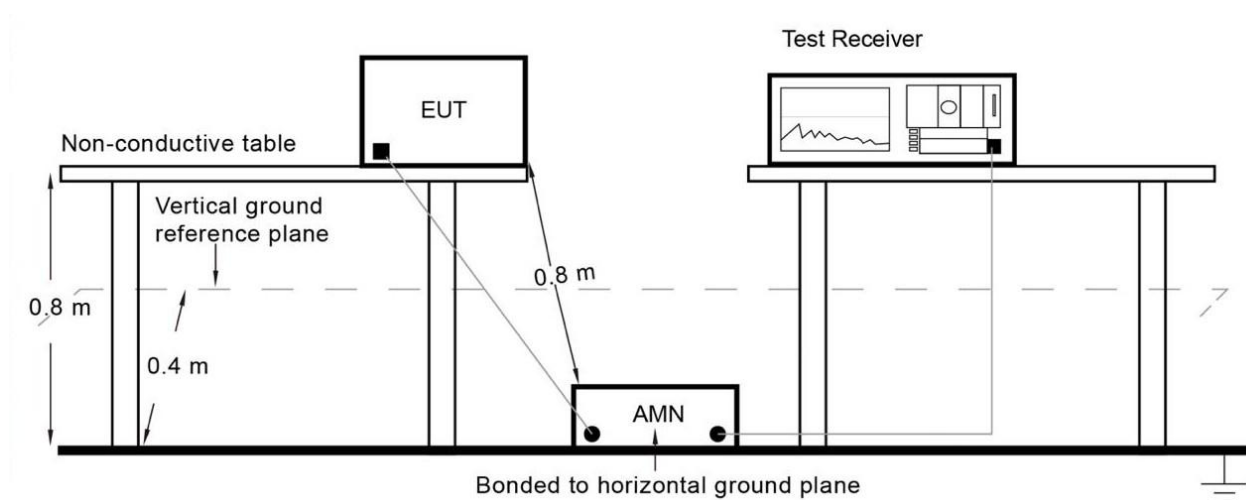
6.9.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
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 0.15 MHz to 0.5 MHz.

6.9.2. Test Setup



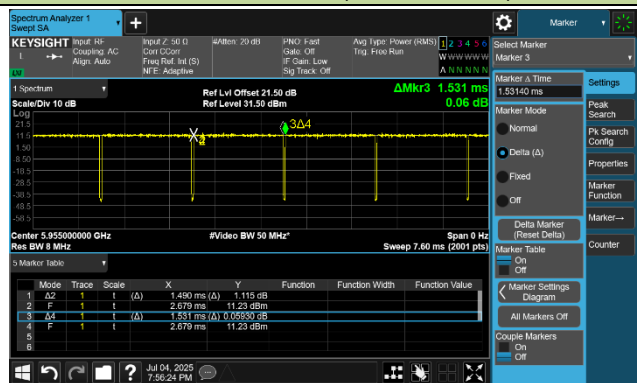
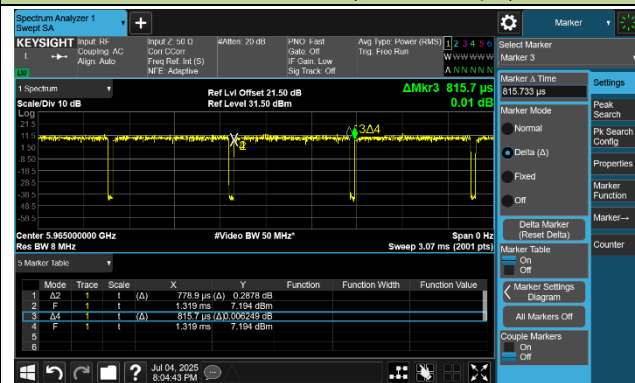
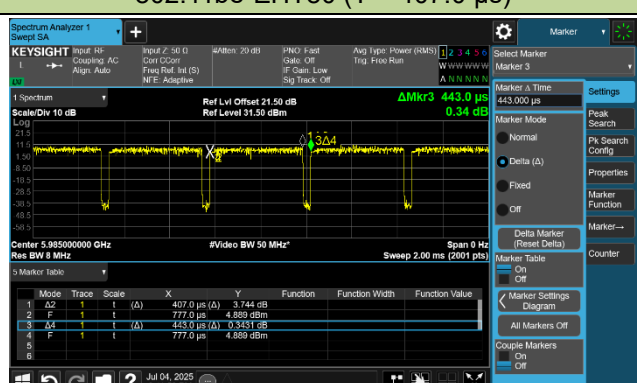
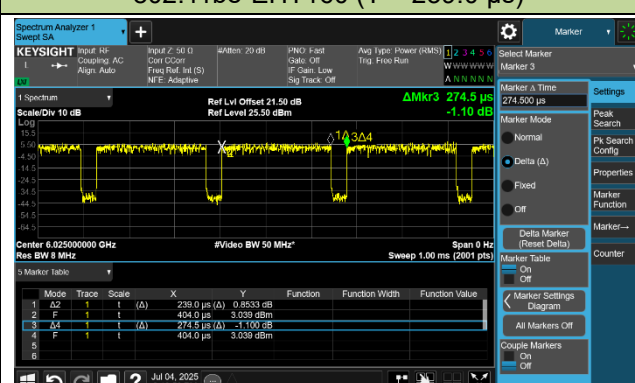
6.9.3. Test Result

Refer to Appendix A.9.

Appendix A – Test Result

A.1 Duty Cycle Test Result

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2025-07-04		

Test Mode	Duty Cycle
802.11be-EHT20	97.32%
802.11be-EHT40	95.49%
802.11be-EHT80	91.87%
802.11be-EHT160	87.07%
Duty Cycle (T = Transmission Duration)	
802.11be-EHT20 (T = 1.490 ms)	802.11be-EHT40 (T = 778.9 μ s)
	
802.11be-EHT80 (T = 407.0 μ s)	802.11be-EHT160 (T = 239.0 μ s)
	

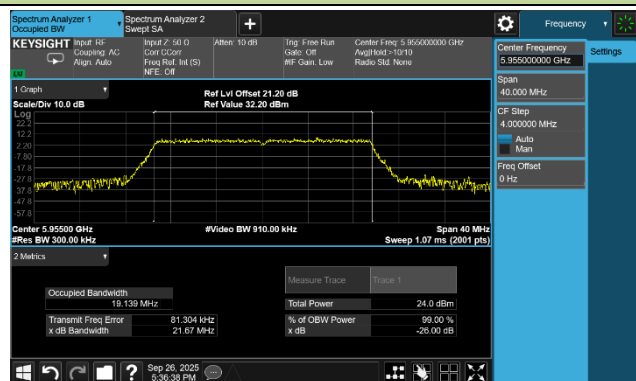
A.2 Channel Bandwidth Test Result

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2025-09-26 ~ 2025-09-27		

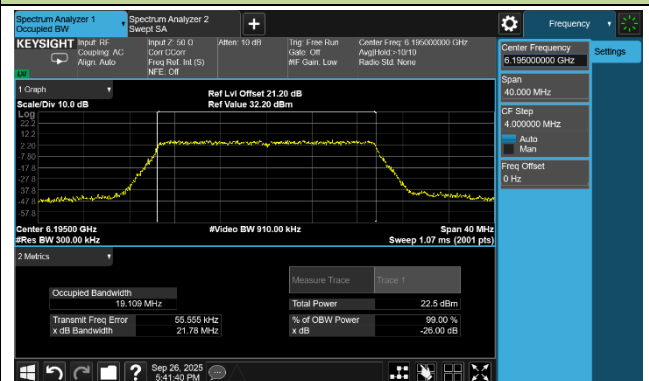
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Test Result
802.11be-EHT20	MCS0	1	5955	21.67	19.139	Pass
802.11be-EHT20	MCS0	49	6195	21.78	19.109	Pass
802.11be-EHT20	MCS0	93	6415	21.72	19.095	Pass
802.11be-EHT20	MCS0	117	6535	21.63	19.107	Pass
802.11be-EHT20	MCS0	149	6695	21.73	19.179	Pass
802.11be-EHT20	MCS0	181	6855	21.83	19.073	Pass
802.11be-EHT40	MCS0	3	5965	41.17	37.811	Pass
802.11be-EHT40	MCS0	51	6205	40.83	37.739	Pass
802.11be-EHT40	MCS0	91	6405	41.12	37.790	Pass
802.11be-EHT40	MCS0	123	6565	40.95	37.867	Pass
802.11be-EHT40	MCS0	147	6685	41.15	37.766	Pass
802.11be-EHT40	MCS0	179	6845	41.42	37.841	Pass
802.11be-EHT80	MCS0	7	5985	82.09	77.162	Pass
802.11be-EHT80	MCS0	55	6225	82.15	77.354	Pass
802.11be-EHT80	MCS0	87	6385	82.92	77.414	Pass
802.11be-EHT80	MCS0	135	6625	82.55	77.334	Pass
802.11be-EHT80	MCS0	151	6705	81.99	77.189	Pass
802.11be-EHT80	MCS0	167	6785	82.12	77.455	Pass
802.11be-EHT160	MCS0	15	6025	164.3	155.95	Pass
802.11be-EHT160	MCS0	47	6185	164.6	156.26	Pass
802.11be-EHT160	MCS0	79	6345	165.1	156.62	Pass
802.11be-EHT160	MCS0	143	6665	163.9	156.07	Pass

802.11be-EHT20 26 dB Bandwidth

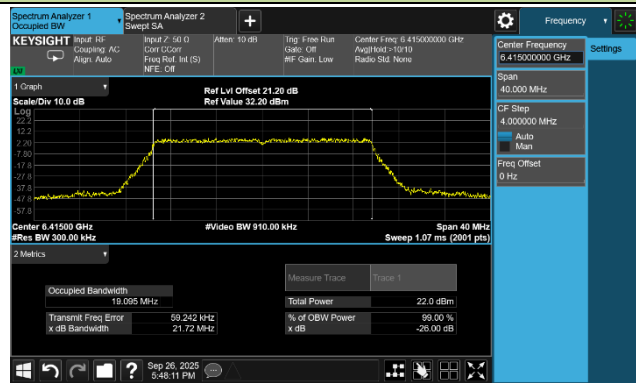
Channel 1 (5955 MHz)



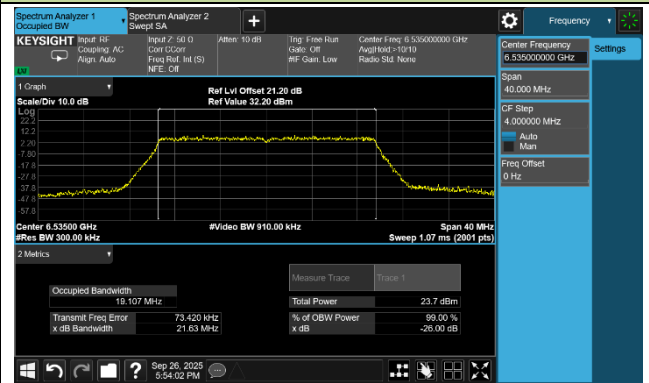
Channel 49 (6195 MHz)



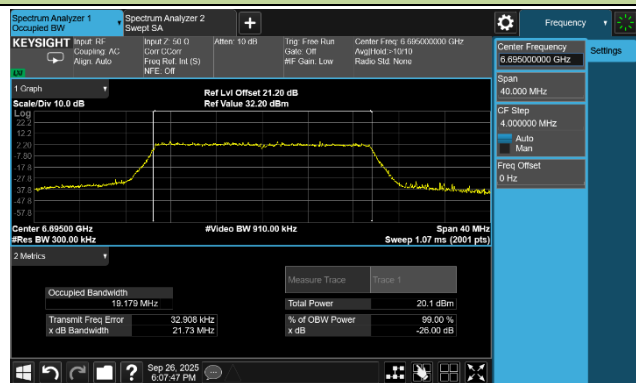
Channel 93 (6415 MHz)



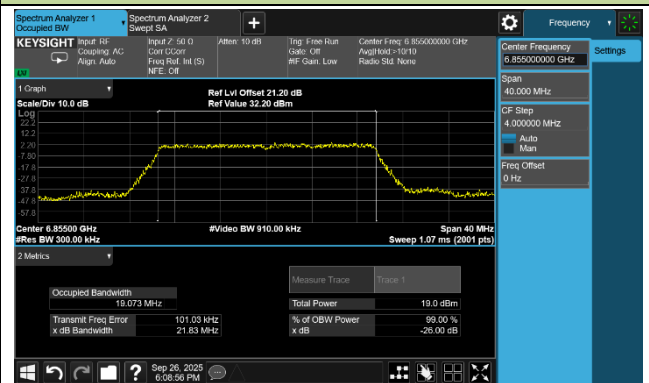
Channel 117 (6535 MHz)



Channel 149 (6695 MHz)

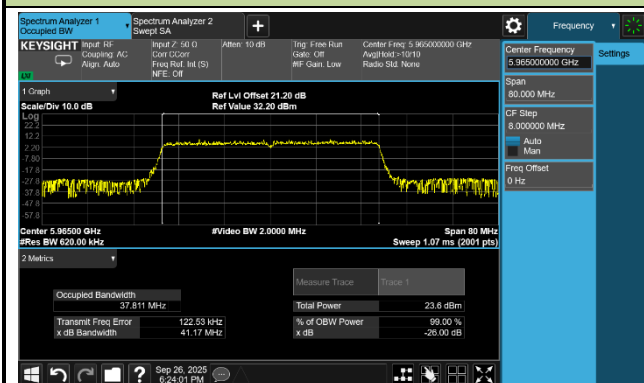


Channel 181 (6855 MHz)

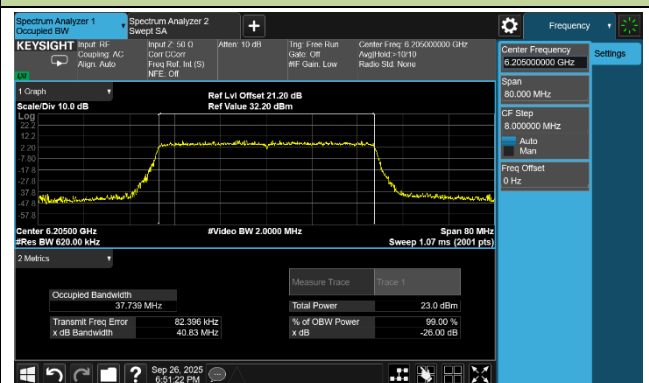


802.11be-EHT40 26 dB Bandwidth

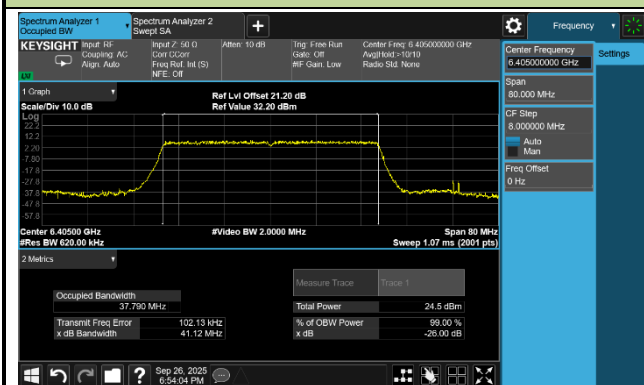
Channel 3 (5965 MHz)



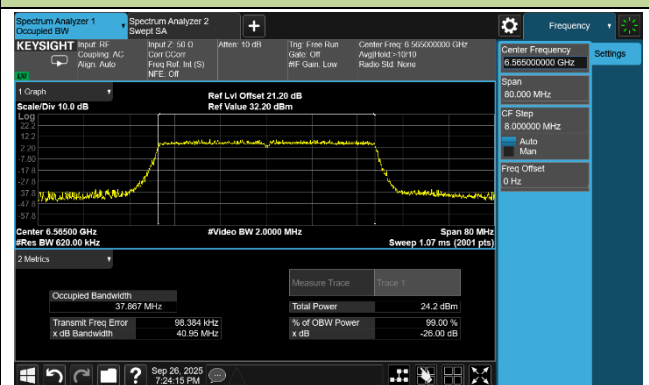
Channel 51 (6205 MHz)



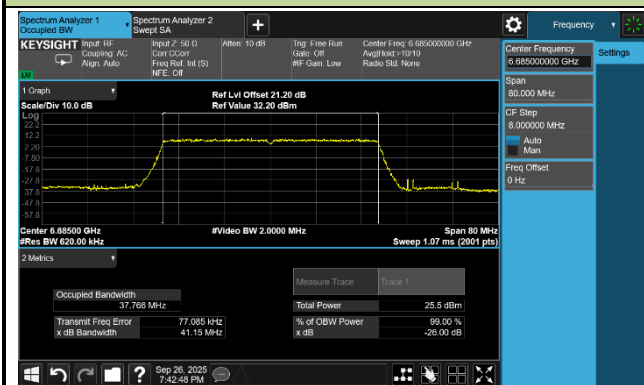
Channel 91 (6405 MHz)



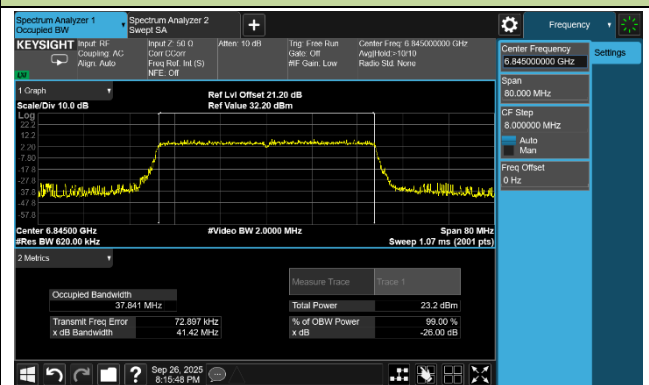
Channel 123 (6565 MHz)



Channel 147 (6685 MHz)

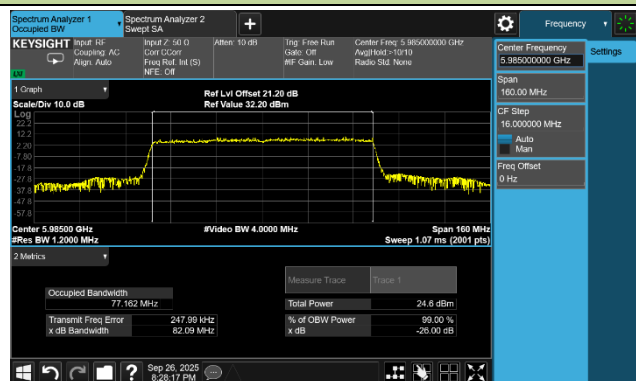


Channel 179 (6845 MHz)

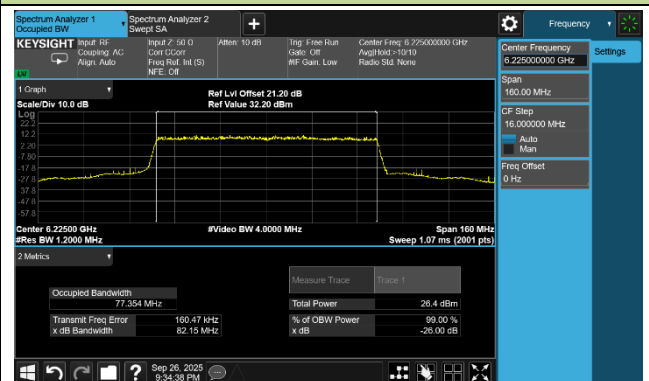


802.11be-EHT80 26 dB Bandwidth

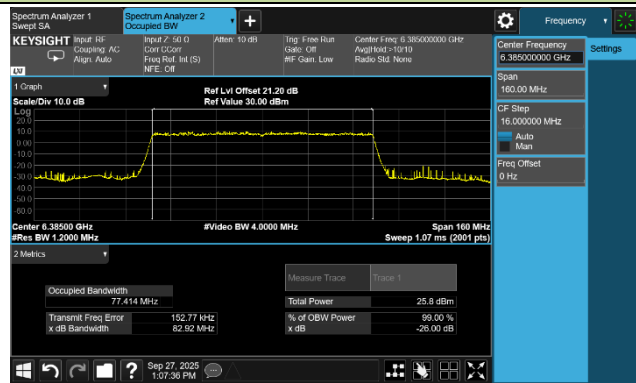
Channel 7 (5985 MHz)



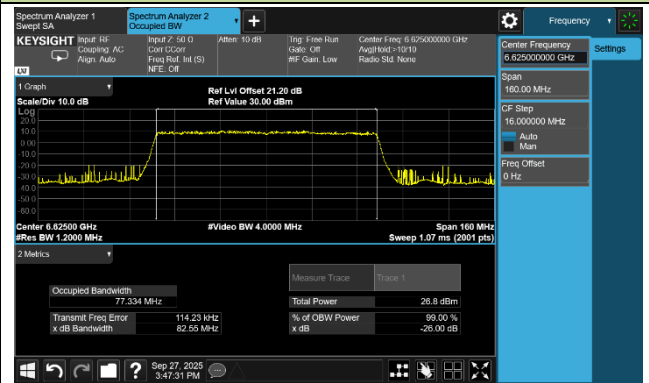
Channel 55 (6225 MHz)



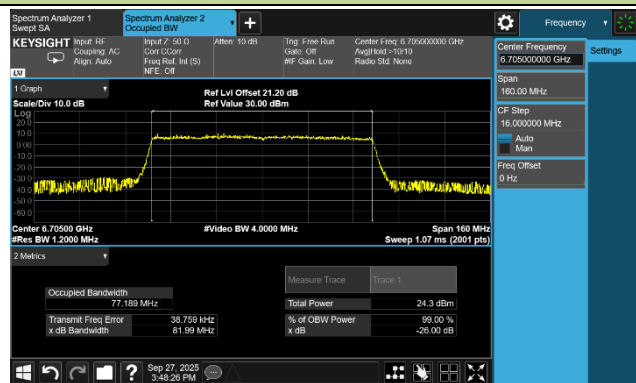
Channel 87 (6385 MHz)



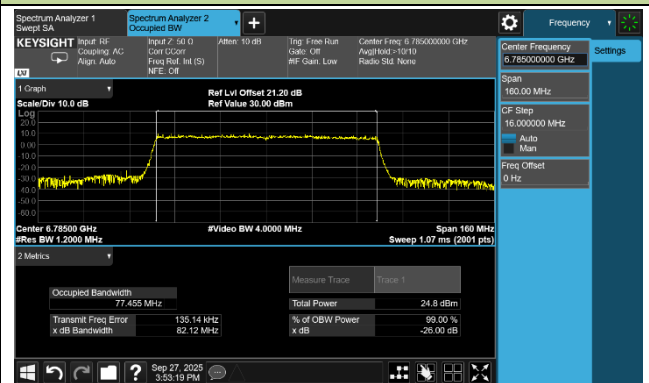
Channel 135 (6625 MHz)



Channel 151 (6705 MHz)

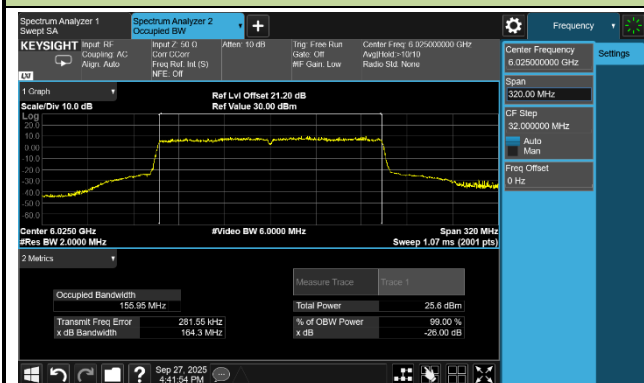


Channel 167 (6785 MHz)

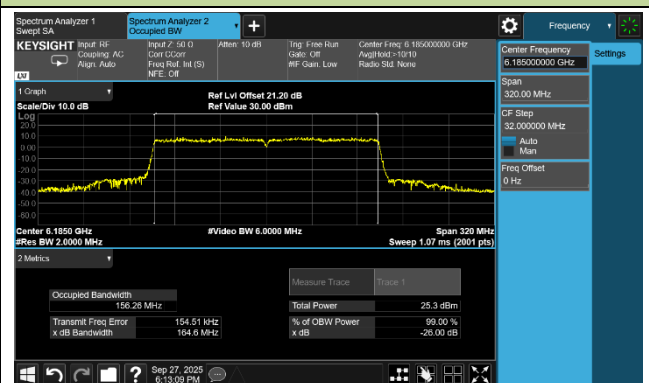


802.11be-EHT160 26 dB Bandwidth

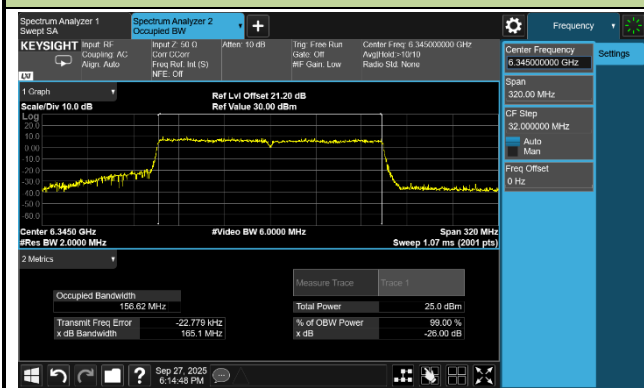
Channel 15 (6025 MHz)



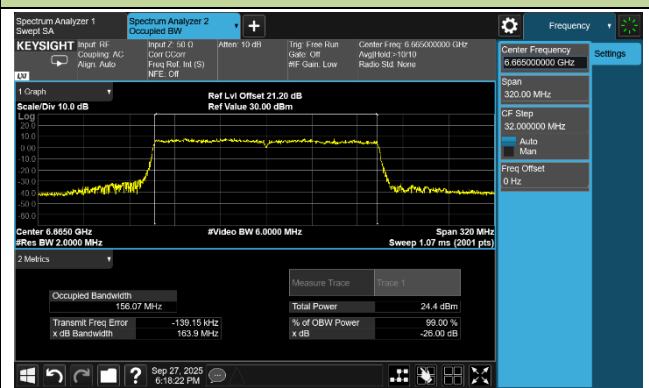
Channel 47 (6185 MHz)



Channel 79 (6345 MHz)



Channel 143 (6665 MHz)



A.3 Equivalent Isotopically Radiated Power Test Result

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2025-09-25		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total AV Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	30 Degree EIRP (dBm)	30 Degree EIRP Limit (dBm)
				Ant 0	Ant 1					
802.11be-EHT20	MCS0	1	5955	16.12	15.63	18.89	22.99	≤ 36.00	20.89	≤ 21.00
802.11be-EHT20	MCS0	49	6195	15.52	16.25	18.91	23.01	≤ 36.00	20.91	≤ 21.00
802.11be-EHT20	MCS0	93	6415	15.14	16.28	18.76	22.86	≤ 36.00	20.76	≤ 21.00
802.11be-EHT20	MCS0	117	6535	16.24	15.58	18.93	23.03	≤ 36.00	20.93	≤ 21.00
802.11be-EHT20	MCS0	149	6695	15.99	15.71	18.86	22.96	≤ 36.00	20.86	≤ 21.00
802.11be-EHT20	MCS0	181	6855	15.67	15.79	18.74	22.84	≤ 36.00	20.74	≤ 21.00
802.11be-EHT40	MCS0	3	5965	15.63	15.77	18.71	22.81	≤ 36.00	20.71	≤ 21.00
802.11be-EHT40	MCS0	51	6205	15.45	16.26	18.88	22.98	≤ 36.00	20.88	≤ 21.00
802.11be-EHT40	MCS0	91	6405	15.18	16.52	18.91	23.01	≤ 36.00	20.91	≤ 21.00
802.11be-EHT40	MCS0	123	6565	16.22	15.28	18.79	22.89	≤ 36.00	20.79	≤ 21.00
802.11be-EHT40	MCS0	147	6685	15.92	15.51	18.73	22.83	≤ 36.00	20.73	≤ 21.00
802.11be-EHT40	MCS0	179	6845	15.78	15.73	18.77	22.87	≤ 36.00	20.77	≤ 21.00
802.11be-EHT80	MCS0	7	5985	15.84	15.92	18.89	22.99	≤ 36.00	20.89	≤ 21.00
802.11be-EHT80	MCS0	55	6225	15.57	16.24	18.93	23.03	≤ 36.00	20.93	≤ 21.00
802.11be-EHT80	MCS0	87	6385	15.45	16.02	18.75	22.85	≤ 36.00	20.75	≤ 21.00
802.11be-EHT80	MCS0	135	6625	16.01	15.82	18.93	23.03	≤ 36.00	20.93	≤ 21.00
802.11be-EHT80	MCS0	151	6705	16.16	15.36	18.79	22.89	≤ 36.00	20.79	≤ 21.00
802.11be-EHT80	MCS0	167	6785	16.05	15.62	18.85	22.95	≤ 36.00	20.85	≤ 21.00
802.11be-EHT160	MCS0	15	6025	15.95	15.75	18.86	22.96	≤ 36.00	20.86	≤ 21.00
802.11be-EHT160	MCS0	47	6185	15.93	15.90	18.93	23.03	≤ 36.00	20.93	≤ 21.00
802.11be-EHT160	MCS0	79	6345	15.53	16.10	18.83	22.93	≤ 36.00	20.83	≤ 21.00
802.11be-EHT160	MCS0	143	6665	16.10	15.44	18.79	22.89	≤ 36.00	20.79	≤ 21.00

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

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

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total AV Power (dBm)	30 Degree EIRP (dBm)	30 Degree EIRP Limit (dBm)
				Ant 0	Ant 1			
802.11be-EHT20	MCS0	1	5955	7.06	6.40	9.75	20.75	≤ 21.00
802.11be-EHT20	MCS0	49	6195	6.70	6.72	9.72	20.72	≤ 21.00
802.11be-EHT20	MCS0	93	6415	6.41	6.94	9.69	20.69	≤ 21.00
802.11be-EHT20	MCS0	117	6535	6.59	6.45	9.53	20.53	≤ 21.00
802.11be-EHT20	MCS0	149	6695	6.55	6.96	9.77	20.77	≤ 21.00
802.11be-EHT20	MCS0	181	6855	6.83	6.70	9.78	20.78	≤ 21.00
802.11be-EHT40	MCS0	3	5965	6.79	6.74	9.78	20.78	≤ 21.00
802.11be-EHT40	MCS0	51	6205	6.36	6.84	9.62	20.62	≤ 21.00
802.11be-EHT40	MCS0	91	6405	6.14	7.11	9.66	20.66	≤ 21.00
802.11be-EHT40	MCS0	123	6565	7.51	6.11	9.88	20.88	≤ 21.00
802.11be-EHT40	MCS0	147	6685	6.92	6.53	9.74	20.74	≤ 21.00
802.11be-EHT40	MCS0	179	6845	7.03	6.71	9.88	20.88	≤ 21.00
802.11be-EHT80	MCS0	7	5985	6.65	6.90	9.79	20.79	≤ 21.00
802.11be-EHT80	MCS0	55	6225	6.29	7.22	9.79	20.79	≤ 21.00
802.11be-EHT80	MCS0	87	6385	6.67	6.51	9.60	20.60	≤ 21.00
802.11be-EHT80	MCS0	135	6625	6.74	6.55	9.66	20.66	≤ 21.00
802.11be-EHT80	MCS0	151	6705	7.13	6.25	9.72	20.72	≤ 21.00
802.11be-EHT80	MCS0	167	6785	7.03	6.39	9.73	20.73	≤ 21.00
802.11be-EHT160	MCS0	15	6025	6.78	6.81	9.81	20.81	≤ 21.00
802.11be-EHT160	MCS0	47	6185	6.72	6.33	9.54	20.54	≤ 21.00
802.11be-EHT160	MCS0	79	6345	6.73	6.86	9.81	20.81	≤ 21.00
802.11be-EHT160	MCS0	143	6665	6.84	6.22	9.55	20.55	≤ 21.00

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

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

Note 3: Due to the uncertainty of the actual installation angle of all used antennas, we measured one set of power values using the maximum 30-degree elevation angle to ensure that the product has the capability to reduce its power to meet the limit.

A.4 Power Spectral Density Test Result

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2025-09-25		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/MHz)		Duty Cycle (%)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
				Ant 0	Ant 1			
802.11be-EHT20	MCS0	1	5955	3.695	2.685	97.32	13.458	≤ 23.00
802.11be-EHT20	MCS0	49	6195	2.889	3.678	97.32	13.540	≤ 23.00
802.11be-EHT20	MCS0	93	6415	2.788	3.637	97.32	13.471	≤ 23.00
802.11be-EHT20	MCS0	117	6535	3.801	2.773	97.32	13.556	≤ 23.00
802.11be-EHT20	MCS0	149	6695	3.249	2.736	97.32	13.238	≤ 23.00
802.11be-EHT20	MCS0	181	6855	3.343	2.558	97.32	13.206	≤ 23.00
802.11be-EHT40	MCS0	3	5965	0.579	0.253	95.49	10.740	≤ 23.00
802.11be-EHT40	MCS0	51	6205	-0.323	0.720	95.49	10.550	≤ 23.00
802.11be-EHT40	MCS0	91	6405	0.111	1.236	95.49	11.031	≤ 23.00
802.11be-EHT40	MCS0	123	6565	0.720	-0.405	95.49	10.515	≤ 23.00
802.11be-EHT40	MCS0	147	6685	0.026	-0.234	95.49	10.219	≤ 23.00
802.11be-EHT40	MCS0	179	6845	0.409	-0.546	95.49	10.278	≤ 23.00
802.11be-EHT80	MCS0	7	5985	-2.003	-2.038	91.87	8.468	≤ 23.00
802.11be-EHT80	MCS0	55	6225	-2.672	-1.656	91.87	8.354	≤ 23.00
802.11be-EHT80	MCS0	87	6385	-2.876	-2.343	91.87	7.887	≤ 23.00
802.11be-EHT80	MCS0	135	6625	-2.038	-2.401	91.87	8.273	≤ 23.00
802.11be-EHT80	MCS0	151	6705	-2.010	-2.879	91.87	8.066	≤ 23.00
802.11be-EHT80	MCS0	167	6785	-2.198	-2.591	91.87	8.099	≤ 23.00
802.11be-EHT160	MCS0	15	6025	-4.480	-4.880	87.07	6.046	≤ 23.00
802.11be-EHT160	MCS0	47	6185	-4.505	-4.217	87.07	6.363	≤ 23.00
802.11be-EHT160	MCS0	79	6345	-4.585	-4.878	87.07	5.993	≤ 23.00
802.11be-EHT160	MCS0	143	6665	-4.946	-4.902	87.07	5.798	≤ 23.00

Note: When EUT duty cycle < 98%, EIRP PSD (dBm/MHz) = $10 \times \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/MHz) + $10 \times \log (1/\text{Duty Cycle})$ + Directional Gain for PSD (dBi).

802.11be-EHT20 Power Spectral Density- Ant 0

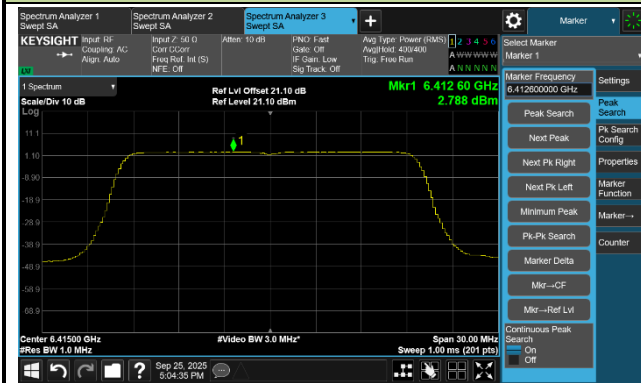
Channel 1 (5955 MHz)



Channel 49 (6195 MHz)



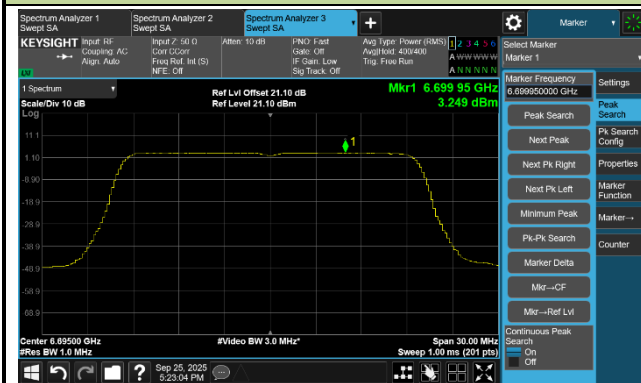
Channel 93 (6415 MHz)



Channel 117 (6535 MHz)



Channel 149 (6695 MHz)

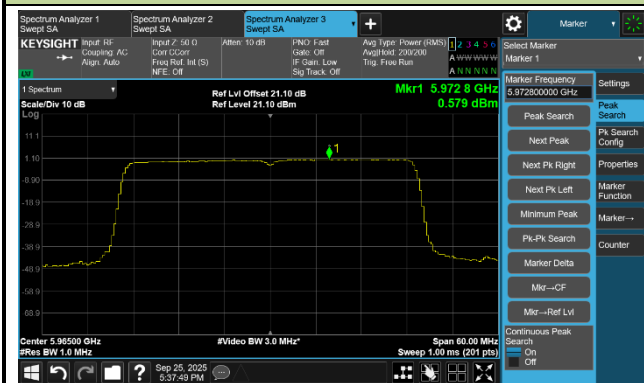


Channel 181 (6855 MHz)



802.11be-EHT40 Power Spectral Density- Ant 0

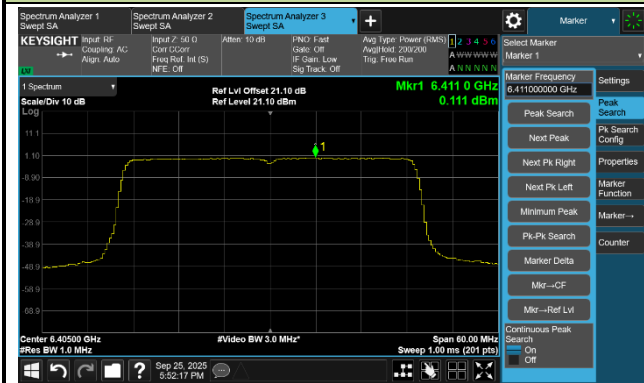
Channel 3 (5965 MHz)



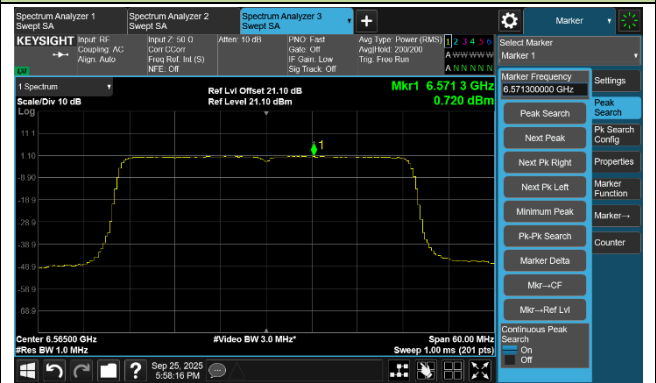
Channel 51 (6205 MHz)



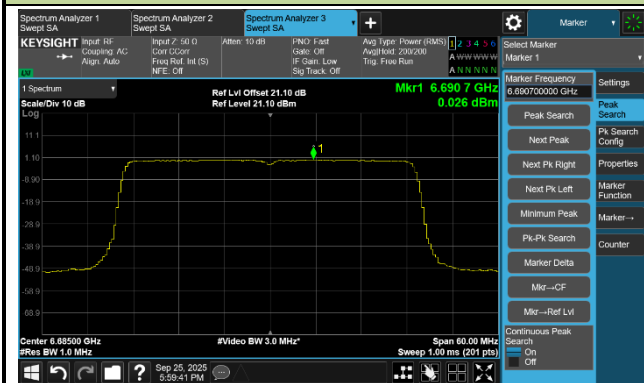
Channel 91 (6405 MHz)



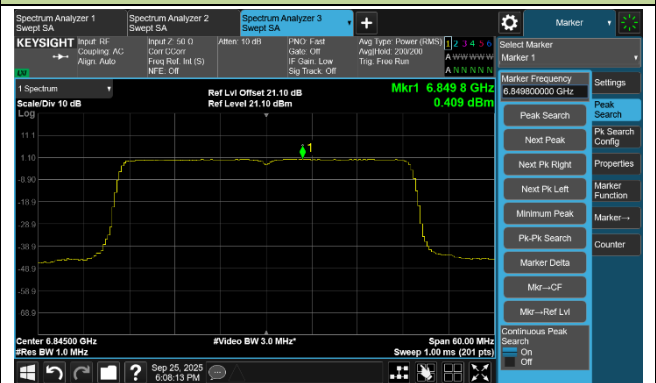
Channel 123 (6565 MHz)



Channel 147 (6685 MHz)

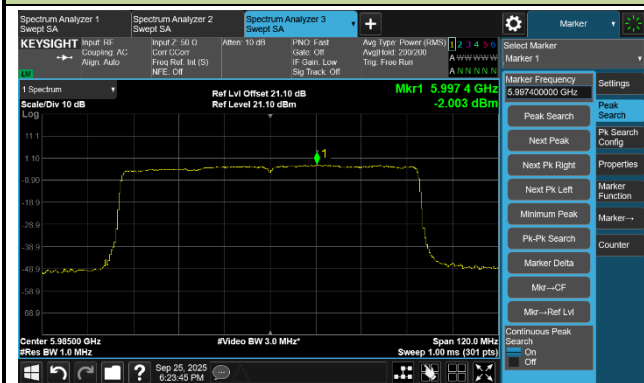


Channel 179 (6845 MHz)

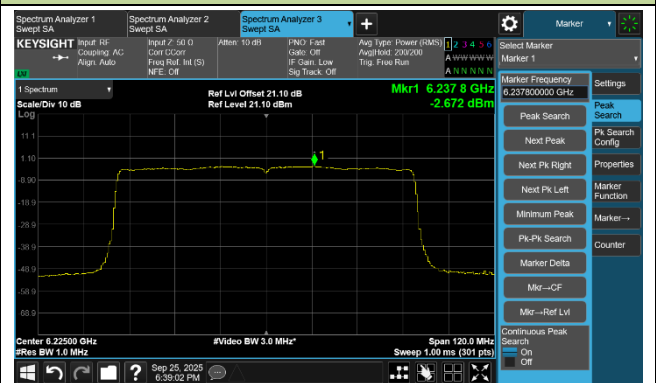


802.11be-EHT80 Power Spectral Density- Ant 0

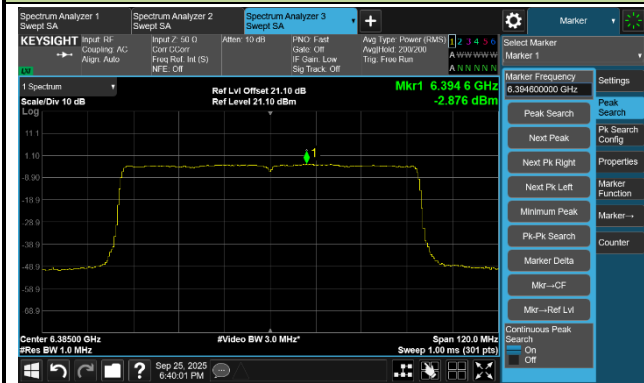
Channel 7 (5985 MHz)



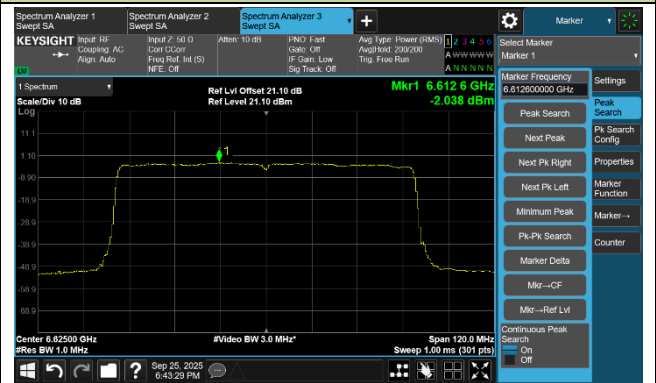
Channel 55 (6225 MHz)



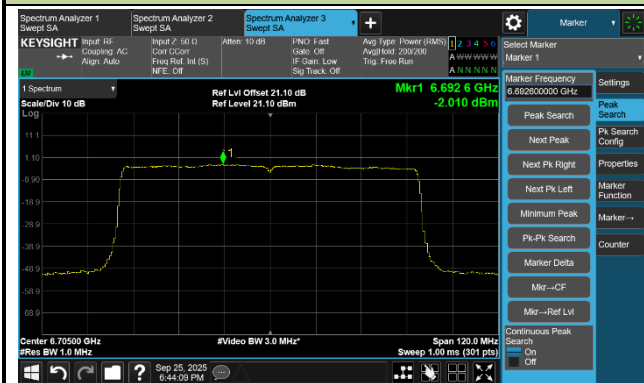
Channel 87 (6385 MHz)



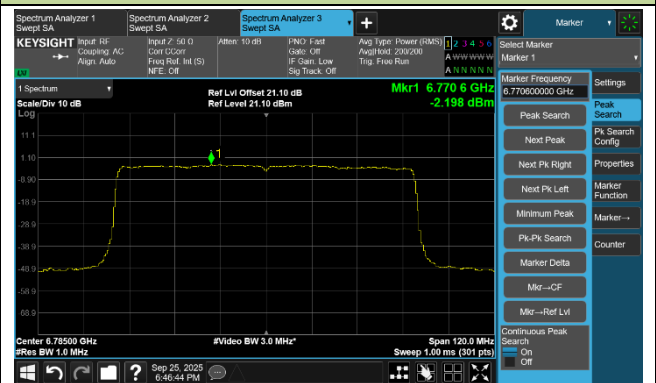
Channel 135 (6625 MHz)



Channel 151 (6705 MHz)

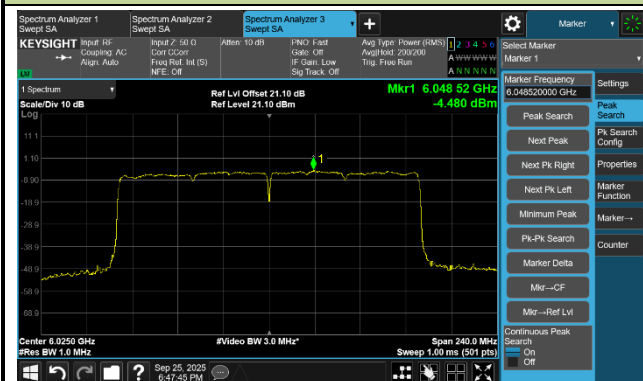


Channel 167 (6785 MHz)

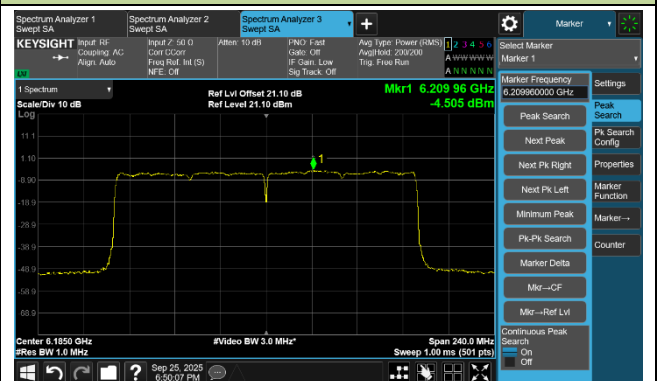


802.11be-EHT160 Power Spectral Density- Ant 0

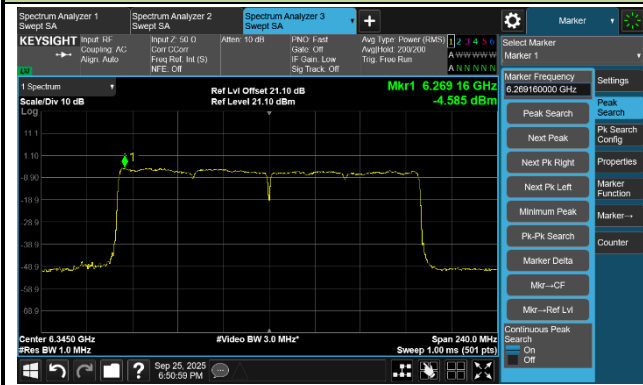
Channel 15 (6025 MHz)



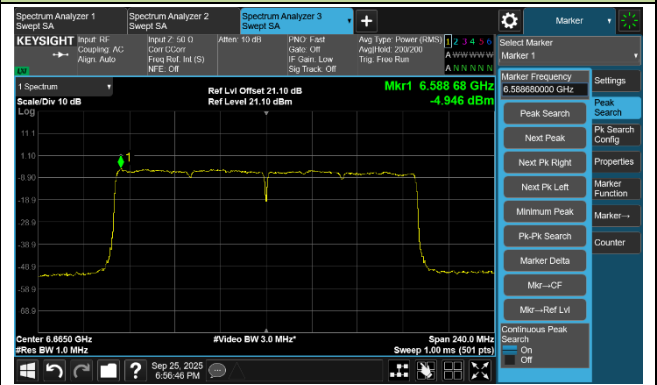
Channel 47 (6185 MHz)



Channel 79 (6345 MHz)

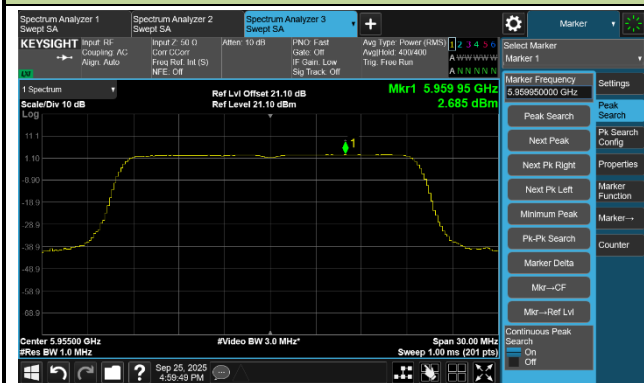


Channel 143 (6665 MHz)



802.11be-EHT20 Power Spectral Density- Ant 1

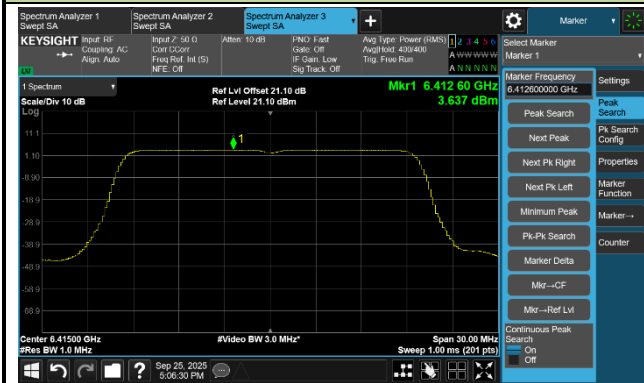
Channel 1 (5955 MHz)



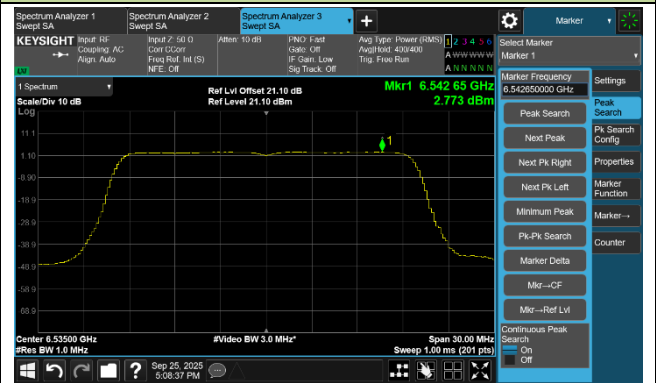
Channel 49 (6195 MHz)



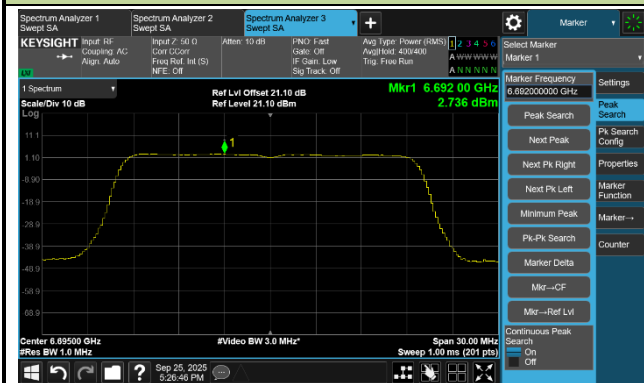
Channel 93 (6415 MHz)



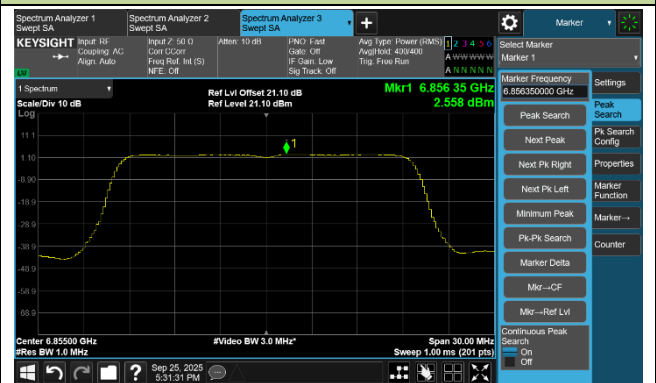
Channel 117 (6535 MHz)



Channel 149 (6695 MHz)

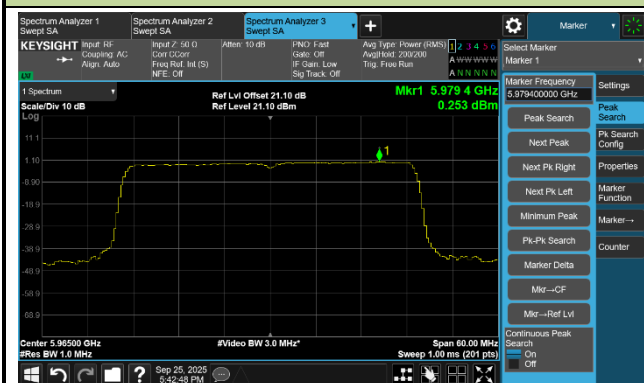


Channel 181 (6855 MHz)



802.11be-EHT40 Power Spectral Density- Ant 1

Channel 3 (5965 MHz)



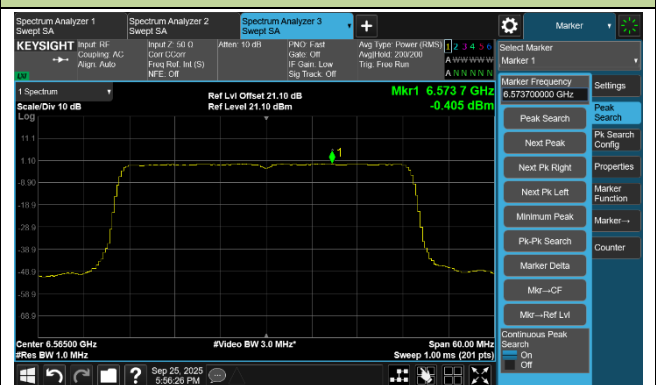
Channel 51 (6205 MHz)



Channel 91 (6405 MHz)



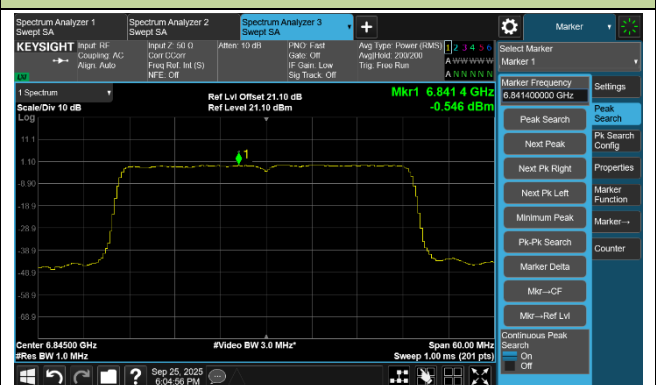
Channel 123 (6565 MHz)



Channel 147 (6685 MHz)

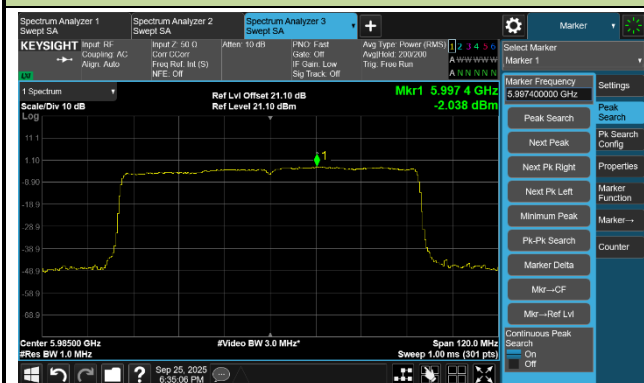


Channel 179 (6845 MHz)



802.11be-EHT80 Power Spectral Density- Ant 1

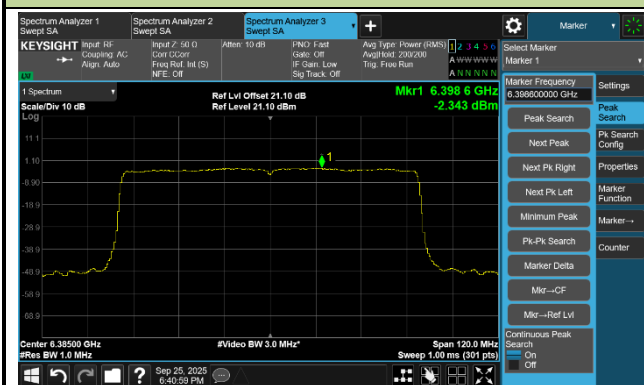
Channel 7 (5985 MHz)



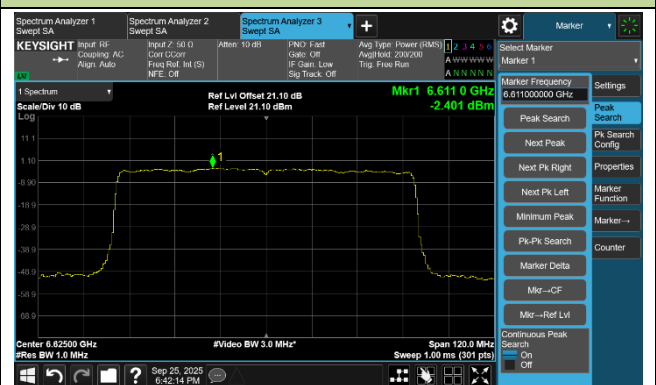
Channel 55 (6225 MHz)



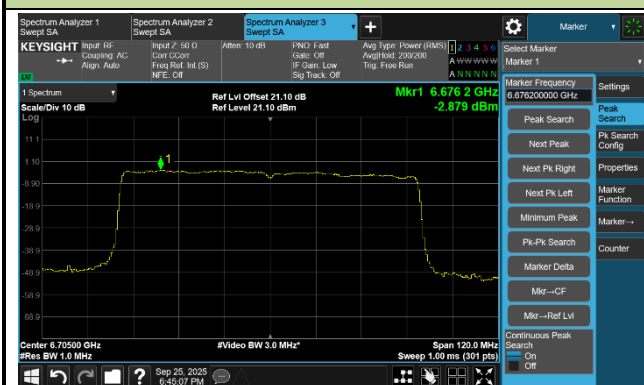
Channel 87 (6385 MHz)



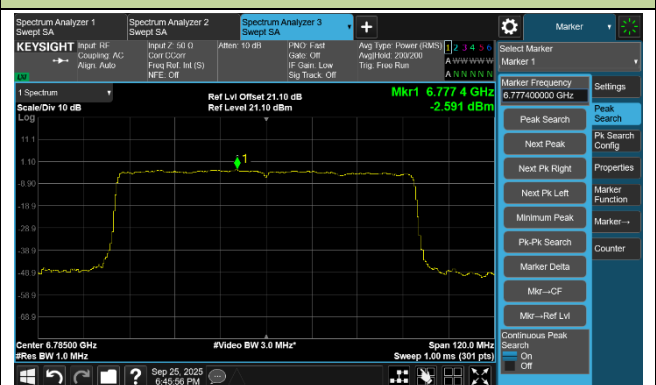
Channel 135 (6625 MHz)



Channel 151 (6705 MHz)

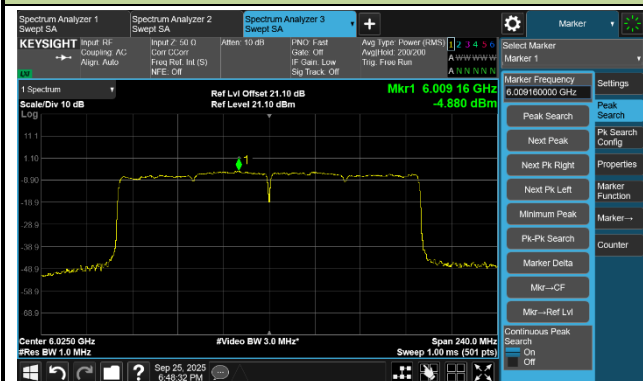


Channel 167 (6785 MHz)



802.11be-EHT160 Power Spectral Density- Ant 1

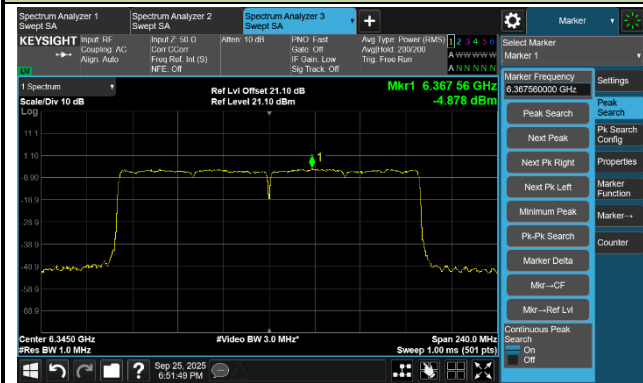
Channel 15 (6025 MHz)



Channel 47 (6185 MHz)



Channel 79 (6345 MHz)



Channel 143 (6665 MHz)

