



# RF MEASUREMENT REPORT

---

**FCC ID:** Q9DAPIN0734  
**Applicant:** Hewlett Packard Enterprise Company  
**Product:** ACCESS POINT  
**Model No.:** APIN0734  
**Trademark:**  ,   
**FCC Classification:** Digital Transmission System (DTS)  
**FCC Rule Part(s):** Part 15 Subpart C (Section 15.247)  
**Result:** Complies  
**Received Date:** 2023-11-09  
**Test Date:** 2023-12-09 ~ 2024-03-15

**Reviewed By:**

\_\_\_\_\_  
Jame Yuan

**Approved By:**

\_\_\_\_\_  
Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. 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
2311RSU031-U13	V01	Initial Report	2024-04-17	Valid

---

## CONTENTS

Description	Page
<b>1. General Information .....</b>	<b>6</b>
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. Description of Antenna RF Port .....	9
1.8. Antenna Details.....	10
1.9. Description of Operating Paths .....	11
<b>2. Test Configuration .....</b>	<b>12</b>
2.1. Test Mode.....	12
2.2. Test System Connection Diagram.....	13
2.3. Test Software .....	13
2.4. Applied Standards.....	14
2.5. Test Environment Condition .....	14
<b>3. Antenna Requirements .....</b>	<b>15</b>
<b>4. Measuring Instrument .....</b>	<b>16</b>
<b>5. Decision Rules and Measurement Uncertainty .....</b>	<b>17</b>
5.1. Decision Rules .....	17
5.2. Measurement Uncertainty .....	17
<b>6. Test Result.....</b>	<b>18</b>
6.1. Summary.....	18
6.2. 6dB Bandwidth Measurement.....	19
6.2.1. Test Limit .....	19
6.2.2. Test Procedure .....	19
6.2.3. Test Setting .....	19
6.2.4. Test Setup .....	19
6.2.5. Test Result .....	19
6.3. Output Power 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.	Power Spectral Density 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 .....	22
6.5.	Conducted Band Edge and Out-of-Band Emissions Measurement .....	23
6.5.1.	Test Limit .....	23
6.5.2.	Test Procedure .....	23
6.5.3.	Test Settintg .....	23
6.5.4.	Test Setup .....	24
6.5.5.	Test Result .....	24
6.6.	Radiated Spurious Emission Measurement.....	25
6.6.1.	Test Limit .....	25
6.6.2.	Test Procedure .....	25
6.6.3.	Test Setting .....	25
6.6.4.	Test Setup .....	28
6.6.5.	Test Result .....	29
6.7.	Radiated Restricted Band Edge Measurement .....	30
6.7.1.	Test Limit .....	30
6.7.2.	Test Procedure .....	31
6.7.3.	Test Setting .....	31
6.7.4.	Test Setup .....	33
6.7.5.	Test Result .....	33
6.8.	AC Conducted Emissions Measurement .....	34
6.8.1.	Test Limit .....	34
6.8.2.	Test Setup .....	34
6.8.3.	Test Result .....	34
<b>Appendix A – Test Result .....</b>		<b>35</b>
A.1	Duty Cycle Test Result .....	35
A.2	6dB Bandwidth Test Result .....	37
A.3	Output Power Test Result .....	42
A.4	Power Spectral Density Test Result .....	44
A.5	Conducted Band Edge and Out-of-Band Emissions Test Result .....	53
A.6	Radiated Spurious Emission Test Result .....	114
A.7	Radiated Restricted Band Edge Test Result .....	185
A.8	AC Conducted Emissions Test Result .....	533
<b>Appendix B – Test Setup Photograph .....</b>		<b>535</b>

**Appendix C – EUT Photograph .....536**

## 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

<input checked="" type="checkbox"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2"><b>Test Site – MRT Suzhou Laboratory</b></td> </tr> <tr> <td colspan="2"><b>Laboratory Location (Suzhou - Wuzhong)</b></td> </tr> <tr> <td colspan="2">D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China</td> </tr> <tr> <td colspan="2"><b>Laboratory Location (Suzhou - SIP)</b></td> </tr> <tr> <td colspan="2">4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China</td> </tr> <tr> <td colspan="2"><b>Laboratory Accreditations</b></td> </tr> <tr> <td>A2LA: 3628.01</td> <td>CNAS: L10551</td> </tr> <tr> <td>FCC: CN1166</td> <td>ISED: CN0001</td> </tr> <tr> <td>VCCI:</td> <td> <input type="checkbox"/>R-20025    <input type="checkbox"/>G-20034    <input type="checkbox"/>C-20020    <input type="checkbox"/>T-20020  <input type="checkbox"/>R-20141    <input type="checkbox"/>G-20134    <input type="checkbox"/>C-20103    <input type="checkbox"/>T-20104         </td> </tr> </table>	<b>Test Site – MRT Suzhou Laboratory</b>		<b>Laboratory Location (Suzhou - Wuzhong)</b>		D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China		<b>Laboratory Location (Suzhou - SIP)</b>		4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China		<b>Laboratory Accreditations</b>		A2LA: 3628.01	CNAS: L10551	FCC: CN1166	ISED: CN0001	VCCI:	<input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020 <input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104
<b>Test Site – MRT Suzhou Laboratory</b>																			
<b>Laboratory Location (Suzhou - Wuzhong)</b>																			
D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China																			
<b>Laboratory Location (Suzhou - SIP)</b>																			
4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China																			
<b>Laboratory Accreditations</b>																			
A2LA: 3628.01	CNAS: L10551																		
FCC: CN1166	ISED: CN0001																		
VCCI:	<input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020 <input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104																		
<input type="checkbox"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2"><b>Test Site – MRT Shenzhen Laboratory</b></td> </tr> <tr> <td colspan="2"><b>Laboratory Location (Shenzhen)</b></td> </tr> <tr> <td colspan="2">1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China</td> </tr> <tr> <td colspan="2"><b>Laboratory Accreditations</b></td> </tr> <tr> <td>A2LA: 3628.02</td> <td>CNAS: L10551</td> </tr> <tr> <td>FCC: CN1284</td> <td>ISED: CN0105</td> </tr> </table>	<b>Test Site – MRT Shenzhen Laboratory</b>		<b>Laboratory Location (Shenzhen)</b>		1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China		<b>Laboratory Accreditations</b>		A2LA: 3628.02	CNAS: L10551	FCC: CN1284	ISED: CN0105						
<b>Test Site – MRT Shenzhen Laboratory</b>																			
<b>Laboratory Location (Shenzhen)</b>																			
1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China																			
<b>Laboratory Accreditations</b>																			
A2LA: 3628.02	CNAS: L10551																		
FCC: CN1284	ISED: CN0105																		
<input type="checkbox"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2"><b>Test Site – MRT Taiwan Laboratory</b></td> </tr> <tr> <td colspan="2"><b>Laboratory Location (Taiwan)</b></td> </tr> <tr> <td colspan="2">No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)</td> </tr> <tr> <td colspan="2"><b>Laboratory Accreditations</b></td> </tr> <tr> <td>TAF: 3261</td> <td></td> </tr> <tr> <td>FCC: 291082, TW3261</td> <td>ISED: TW3261</td> </tr> </table>	<b>Test Site – MRT Taiwan Laboratory</b>		<b>Laboratory Location (Taiwan)</b>		No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)		<b>Laboratory Accreditations</b>		TAF: 3261		FCC: 291082, TW3261	ISED: TW3261						
<b>Test Site – MRT Taiwan Laboratory</b>																			
<b>Laboratory Location (Taiwan)</b>																			
No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)																			
<b>Laboratory Accreditations</b>																			
TAF: 3261																			
FCC: 291082, TW3261	ISED: TW3261																		

#### 1.4. Product Information

Product Name	ACCESS POINT
Model No.	APIN0734
Serial No.	CNRLM5102L
Software Version	V1.6
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	802.11b/g/n-HT20/ax-HE20/be-EHT20: 2412 ~ 2462MHz 802.11n-HT40/ax-HE40/be-EHT40: 2422 ~ 2452MHz	
Channel Number	802.11b/g/n-HT20/ax-HE20/be-EHT20: 11 802.11n-HT40/ax-HE40/be-EHT40: 7	
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM 802.11ax/be: OFDMA	
Data Rate	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ax: up to 573.6Mbps 802.11be: up to 688Mbps	
Channel Puncturing Function	<input type="checkbox"/> Supported	<input checked="" type="checkbox"/> Unsupported
Support RU	<input checked="" type="checkbox"/> Full RU	<input type="checkbox"/> Partial RU

### 1.6. Working Frequencies

802.11b/g/n-HT20/ax-HE20/be-EHT20

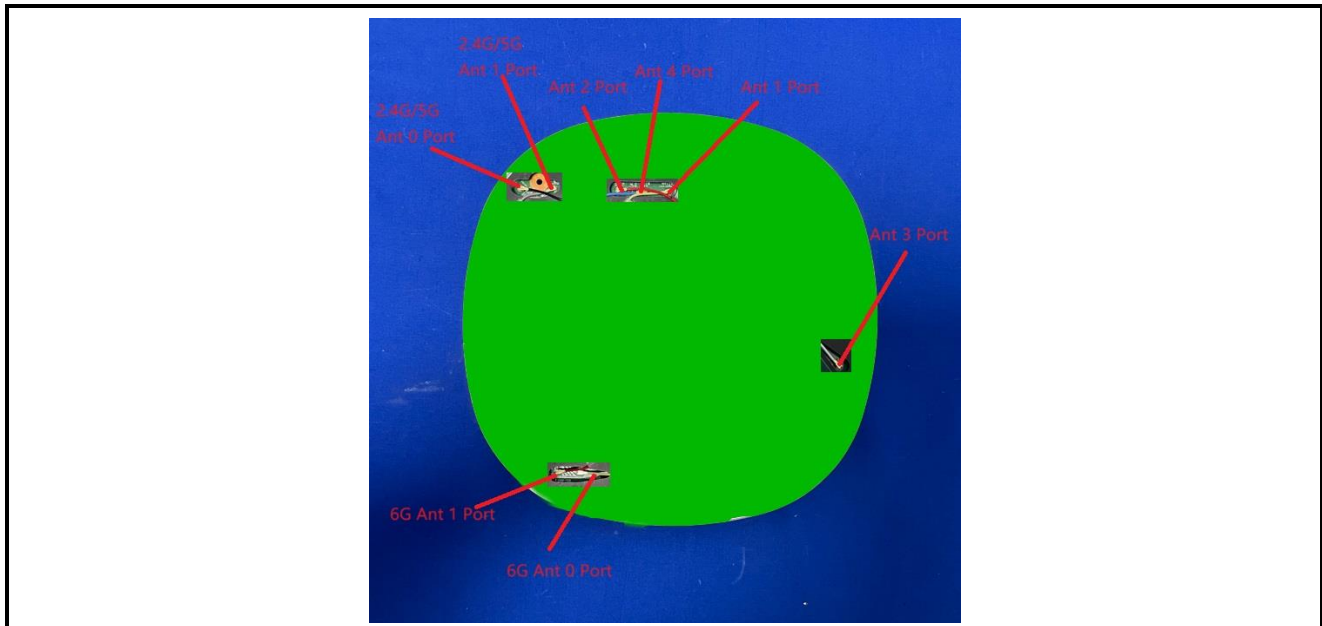
Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	--	--	--	--



### 1.7. Description of Antenna RF Port



Antenna Port	RF Spec.			
	Wi-Fi 2.4G	Wi-Fi 5G	Wi-Fi 6G	BLE/ZigBee
6G Ant 0	--	--	● (Radio 2)	--
6G Ant 1	--	--	● (Radio 2)	--
2.4G/5G Ant 0	● (Radio 0)	● (Radio 1)	--	--
2.4G/5G Ant 1	● (Radio 0)	● (Radio 1)	--	--
Ant 4	--	--	--	● (Core 1)
Ant 2	--	--	--	● (Core 0)
Ant 1	--	--	--	● (Core 1)
Ant 3	GNSS			

Note: Radio 2 6GHz will be disabled for application.

**1.8. Antenna Details**

Polarization	Antenna Name	Frequency Band (GHz)	Max Peak Gain (dBi)	CDD Dir Gain (dBi)		BF Dir Gain (dBi)
				For Power	For PSD	
Wi-Fi External Antenna List (2*2 MIMO)						
Omni	AP-ANT-311	2.4 ~ 2.5	3.0	3.0	6.01	6.01
		5.15 ~ 5.9	6.0	6.0	9.01	9.01
		5.9 ~ 7.2	6.0	6.0	9.01	9.01
Omni	AP-ANT-312	2.4 ~ 2.5	3.3	3.3	6.31	6.31
		5.15 ~ 5.9	3.3	3.3	6.31	6.31
		5.9 ~ 7.2	4.1	4.1	7.11	7.11
Omni	AP-ANT-313	2.4 ~ 2.5	3.0	3.0	6.01	6.01
		5.15 ~ 5.9	6.0	6.0	9.01	9.01
		5.9 ~ 7.2	6.0	6.0	9.01	9.01
Omni	AP-ANT-320 AP-ANT-340	2.4 ~ 2.5	4.0	4.0	7.01	7.01
		5.15 ~ 5.9	5.0	5.0	8.01	8.01
		5.9 ~ 7.2	5.0	5.0	8.01	8.01
Directional (Note 4, 5)	AP-ANT-325 AP-ANT-345	2.4 ~ 2.5	6.1	6.1	6.1	6.1
		5.15 ~ 5.9	6.1	6.1	6.1	6.1
		5.9 ~ 7.2	5.4	5.4	5.4	5.4
Directional (Note 4, 5)	AP-ANT-328 AP-ANT-348	2.4 ~ 2.5	7.5	7.5	7.5	7.5
		5.15 ~ 5.9	8.0	8.0	8.0	8.0
		5.9 ~ 7.2	8.0	8.0	8.0	8.0

**Note:**

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

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT} + \text{Array Gain}$ , where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices, Array Gain =  $10 \log (N_{ANT}/ N_{SS})$  dB = 3.01;
- For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for  $N_{ANT} \leq 4$ ;

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, AP-ANT-325 is a tri-band and 2-element antenna and AP-ANT-345 is a tri-band and 4-element antenna.

AP-ANT-328 is a tri-band and 2-element antenna and AP-ANT-348 is a tri-band and 4-element antenna.

6. Low gain antenna (AP-ANT-311) was selected to perform all RF testing that can get maximum power

setting, high gain different type antenna (AP-ANT-340 & AP-ANT-348) 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.

### 1.9. Description of Operating Paths

Filter	Specification	Remark
Filter 1#	Band Pass Filter (2412-2472)	Allowing any transmission on all channels
Filter 2#	Band Pass Filter (2402-2447)	Allowing any transmission on 20MHz channels 1 thru 6 and 40MHz channel 3.
Filter 3#	Band Pass Filter (2452-2472)	Allowing any transmission on 20MHz channel 11

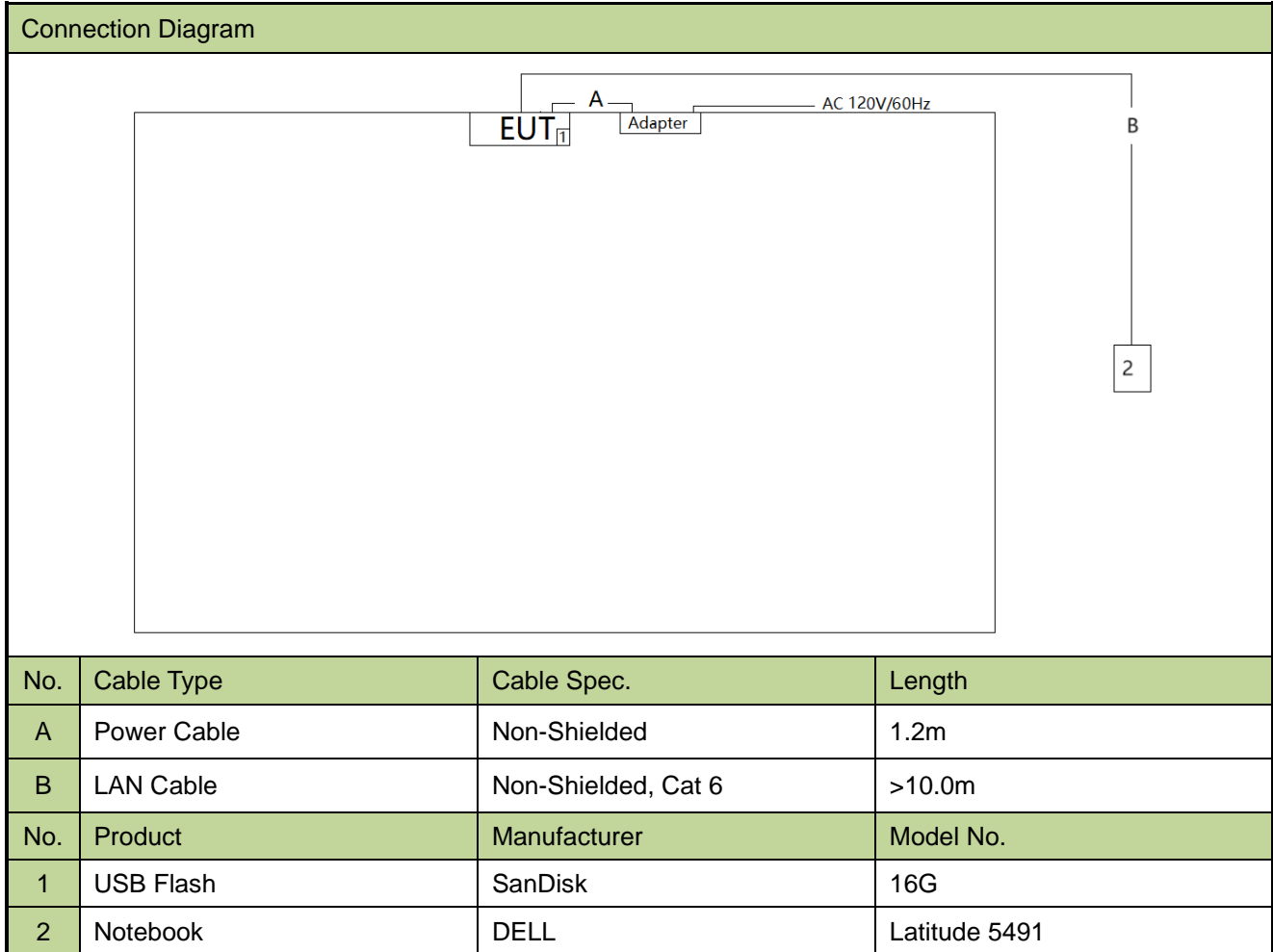
## 2. Test Configuration

### 2.1. Test Mode

Mode 1: Transmit by 802.11b (1Mbps)
Mode 2: Transmit by 802.11g (6Mbps)
Mode 3: Transmit by 802.11n-HT20 _Nss=1 (MCS0)
Mode 4: Transmit by 802.11n-HT40 _Nss=1 (MCS0)
Mode 5: Transmit by 802.11ax-HE20 _Nss=1 (MCS0)
Mode 6: Transmit by 802.11ax-HE40 _Nss=1 (MCS0)
Mode 7: Transmit by 802.11be-EHT20_Nss=1 (MCS0)
Mode 8: Transmit by 802.11be-EHT40_Nss=1 (MCS0)
Note: <ol style="list-style-type: none"><li>1. All modes of operation and data rates were investigated, so all RF test requirements shall be executed at the worst data rate.</li><li>2. 802.11n and 802.11ac have same modulation type and same power value, so we only show 802.11ac test data in report.</li><li>3. For CDD mode, this device supports 2 Nss and power level is the same of spatial multiplexing. The worst case is Nss=1.</li><li>4. For beamforming operation, manufacturer automatically backs power down based on CDD power. Therefore, only the CDD mode was evaluated in this report.</li></ol>

## 2.2. Test System Connection Diagram

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



## 2.3. Test Software

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

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 15.247
- KDB 558074 D01v05r02
- 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

**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
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2024-05-15	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2024-05-23	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2024-10-11	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2024-05-07	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2024-04-20	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2024-11-07	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2024-11-04	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2024-01-12	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2025-01-11	WZ-AC2
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2024-12-04	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2024-05-31	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
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2024-05-23	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11092	1 year	2024-06-08	WZ-SR5
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2024-05-31	WZ-SR2
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2024-05-23	WZ-SR2
Four-Line V-Network	R&S	ENV432	MRTSUE06615	1 year	2024-09-27	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
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  $k = 2$ .

<b>AC Conducted Emission Measurement</b>
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB
<b>Radiated Emission Measurement</b>
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
<b>Spurious Emissions, Conducted</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 2.2dB
<b>Output Power</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 1.4dB
<b>Power Spectrum Density</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 2.2dB
<b>Occupied Bandwidth</b>
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
15.247(a)(2)	6dB Bandwidth	Conducted	Pass
15.247(b)(3)	Output Power		Pass
15.247(e)	Power Spectral Density		Pass
15.247(d)	Band Edge / Out-of-Band Emissions		Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

#### Notes:

- 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.
- For radiated emission tests, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
- The test items of each filter are as follows.

Test Items	Filter 1#	Filter 2#	Filter 3#
6dB Bandwidth	•	--	--
Output Power	•	•	•
Power Spectral Density	•	--	--
Band Edge / Out-of-Band Emissions	•	•	•
Radiated Spurious Emission	•	•	•
Radiated Band Edge	•	•	•
AC Conducted Emissions 150kHz - 30MHz	•	--	--

## 6.2. 6dB Bandwidth Measurement

### 6.2.1. Test Limit

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

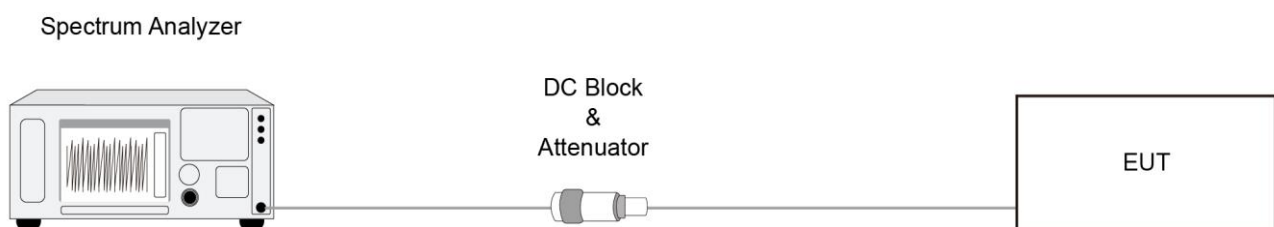
### 6.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.8

### 6.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to  $X = 6$ . The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3.  $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize.

### 6.2.4. Test Setup



### 6.2.5. Test Result

Refer to Appendix A.2.

### 6.3. Output Power Measurement

#### 6.3.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 6.3.2. Test Procedure

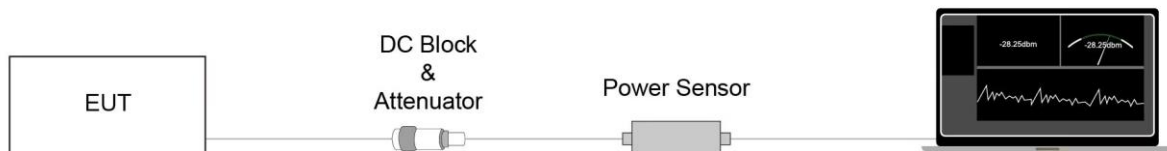
ANSI C63.10 - 2013 - Section 11.9.2.3.2

#### 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

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

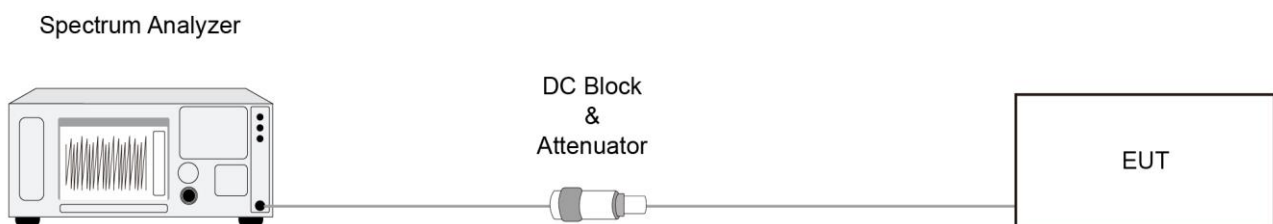
### 6.4.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.10.5

### 6.4.3. Test Setting

1. Measure the duty cycle (x) of the transmitter output signal.
2. Set instrument center frequency to DTS channel center frequency.
3. Set span to at least 1.5 times the OBW.
4. RBW = 10 kHz.
5. VBW = 30 kHz.
6. Detector = RMS.
7. Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span}/\text{RBW}$ .
8. Sweep time = auto couple.
9. Don't use sweep triggering. Allow sweep to "free run".
10. Employ trace averaging (RMS) mode over a minimum of 100 traces.
11. Use the peak marker function to determine the maximum amplitude level.
12. Add  $10 \log (1/x)$ , where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time. If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

### 6.4.4. Test Setup



#### **6.4.5. Test Result**

Refer to Appendix A.4.

## **6.5. Conducted Band Edge and Out-of-Band Emissions Measurement**

### **6.5.1. Test Limit**

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

### **6.5.2. Test Procedure**

ANSI C63.10-2013 - Section 11.11

### **6.5.3. Test Setting**

#### **Reference level measurement**

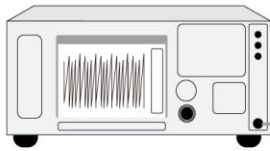
1. Set instrument center frequency to DTS channel center frequency
2. Set the span to  $\geq 1.5$  times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW  $\geq 3 \times$  RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

#### **Emission level measurement**

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

#### 6.5.4. Test Setup

Spectrum Analyzer



DC Block  
&  
Attenuator



#### 6.5.5. Test Result

Refer to Appendix A.5.



## 6.6. Radiated Spurious Emission Measurement

### 6.6.1. 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 [ $\mu\text{V/m}$ ]	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

### 6.6.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)

### 6.6.3. Test Setting

**Table 1 - RBW as a function of frequency**

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

**Quasi-Peak Measurements below 1GHz**

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

**Peak Measurements above 1GHz**

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

**Average Measurements above 1GHz (Method VB)**

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

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

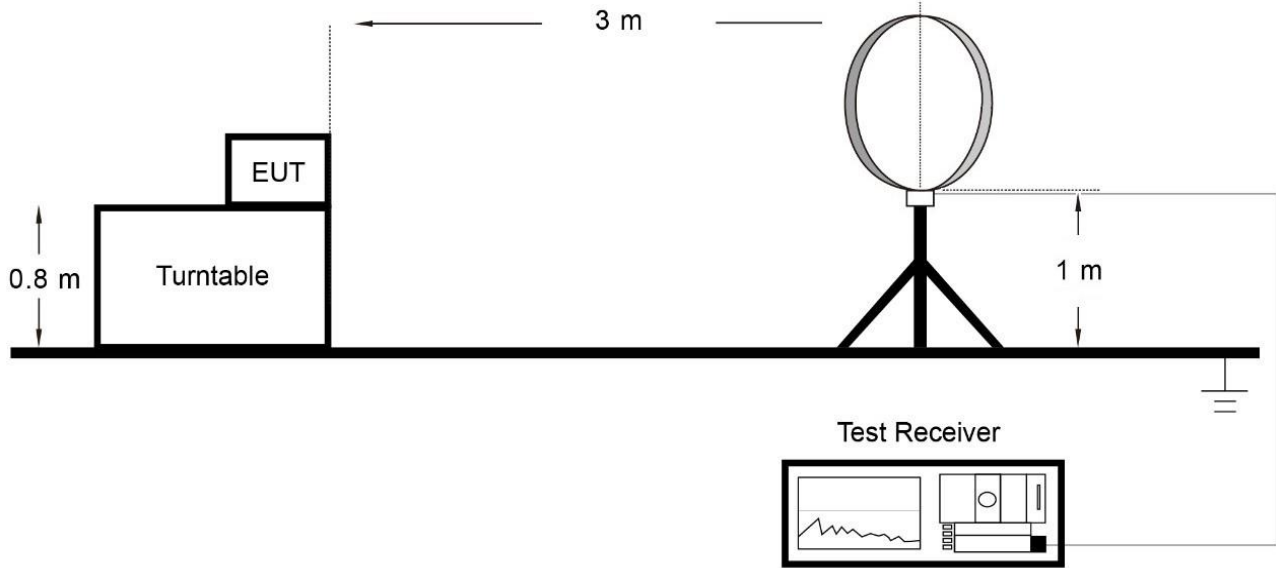
802.11b	VBW = 82Hz	802.11ax-HE20	VBW = 680Hz
802.11g	VBW = 510Hz	802.11ax-HE40	VBW = 1300Hz
802.11n-HT20	VBW = 560Hz	802.11be-EHT20	VBW = 680Hz
802.11n-HT40	VBW = 1100Hz	802.11be-EHT40	VBW = 1300Hz

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

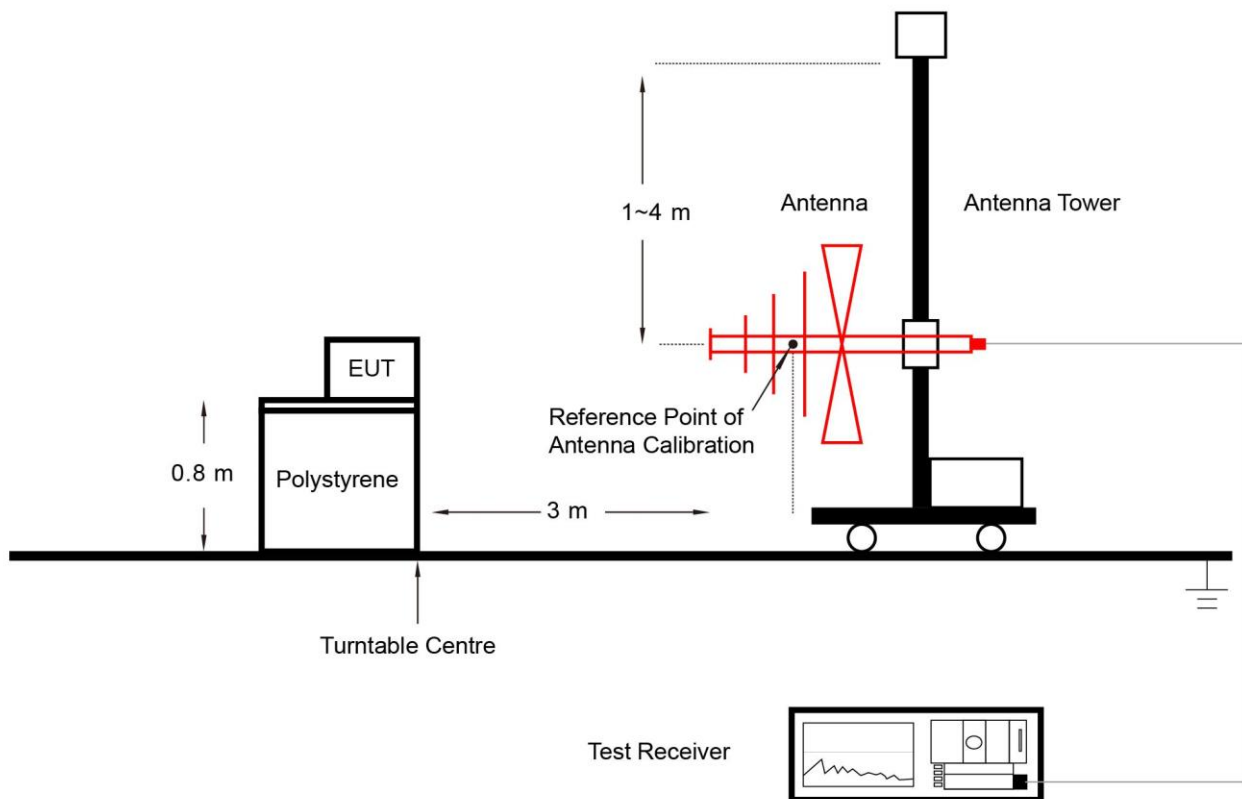
8. Trace was allowed to stabilize

### 6.6.4. Test Setup

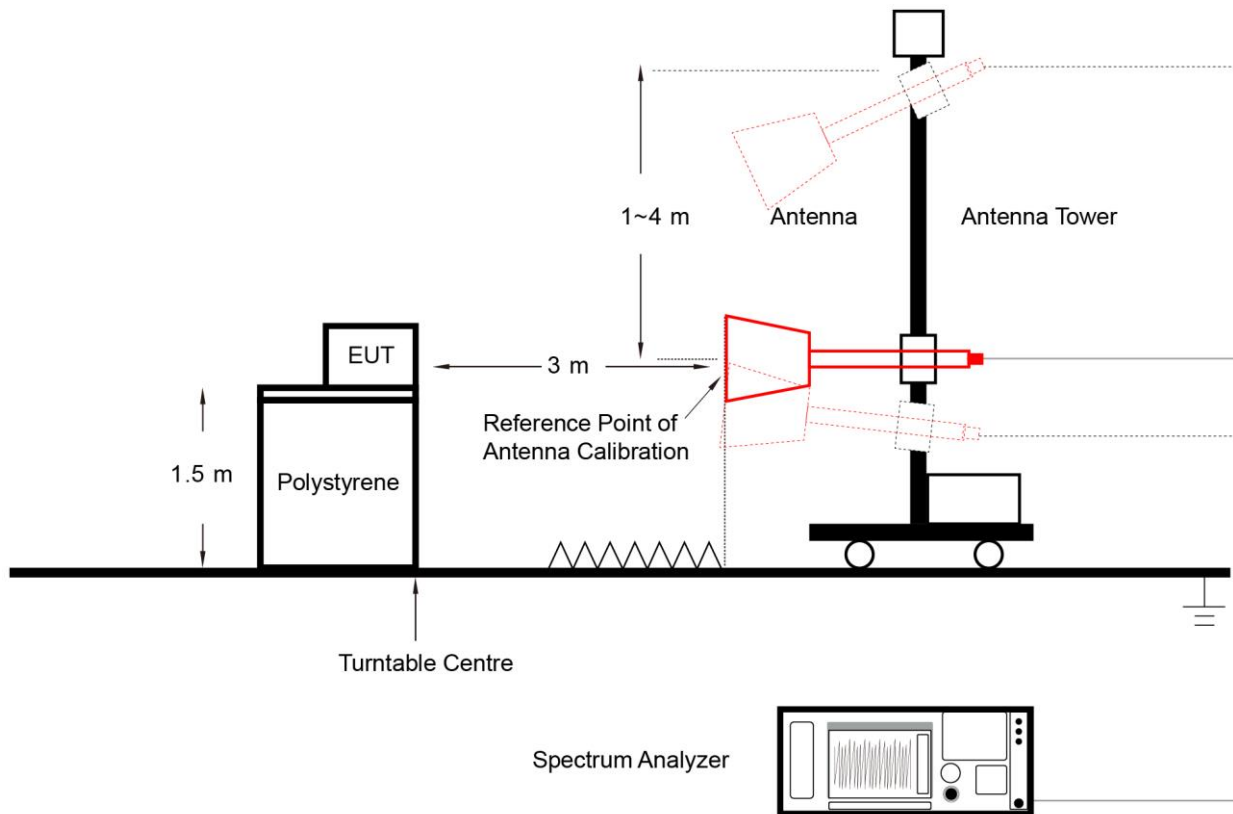
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



**6.6.5. Test Result**

Refer to Appendix A.6.

## 6.7. Radiated Restricted Band Edge Measurement

### 6.7.1. Test Limit

#### For 15.205 requirement:

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

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

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

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

### 6.7.2. Test Procedure

ANSI C63.10-2013 Section 6.3 & 6.6 & 11.13

### 6.7.3. Test Setting

#### Peak Field Strength Measurements

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 Field Strength Measurements

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

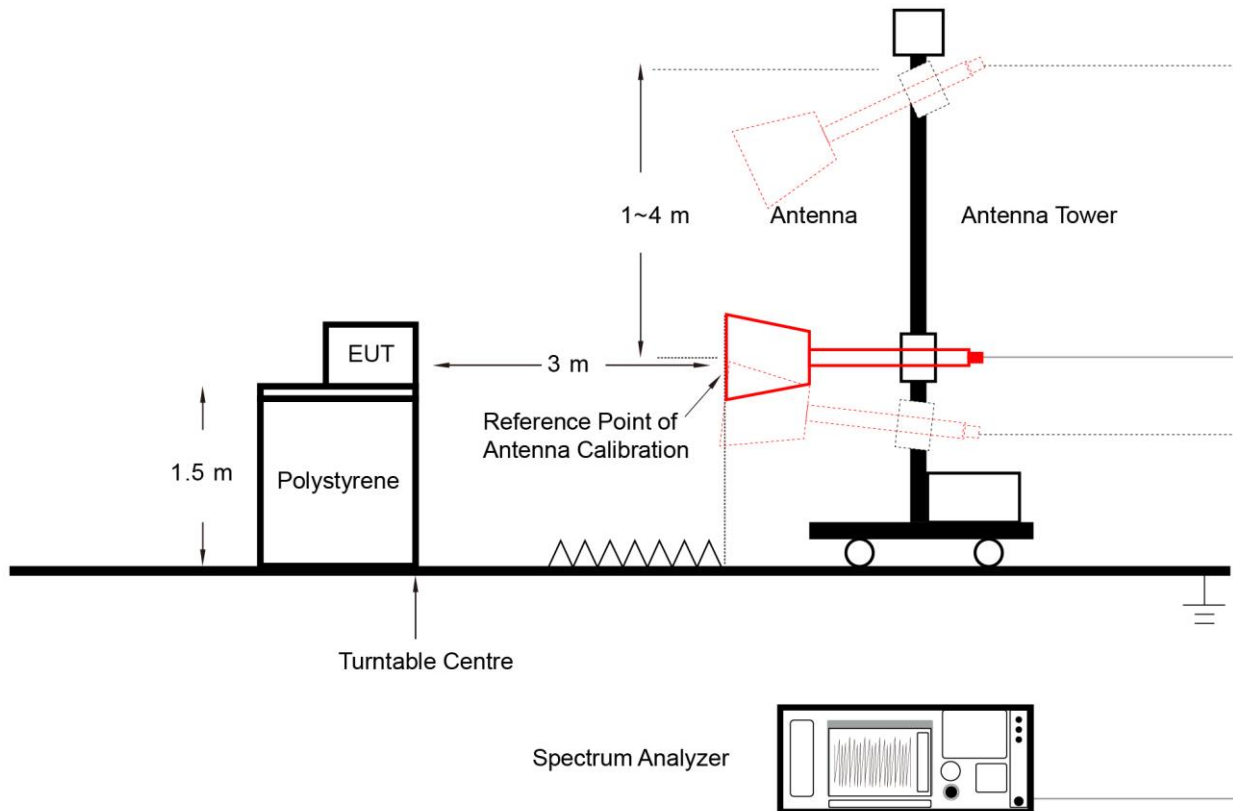
If the EUT duty cycle is  $< 98\%$ , set  $VBW \geq 1/T$ . T is the minimum transmission duration.

802.11b	VBW = 82Hz	802.11ax-HE20	VBW = 680Hz
802.11g	VBW = 510Hz	802.11ax-HE40	VBW = 1300Hz
802.11n-HT20	VBW = 560Hz	802.11be-EHT20	VBW = 680Hz
802.11n-HT40	VBW = 1100Hz	802.11be-EHT40	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. Allow max hold to run for at least 50 times (1/duty cycle) traces



### 6.7.4. Test Setup



### 6.7.5. Test Result

Refer to Appendix A.7.

## 6.8. AC Conducted Emissions Measurement

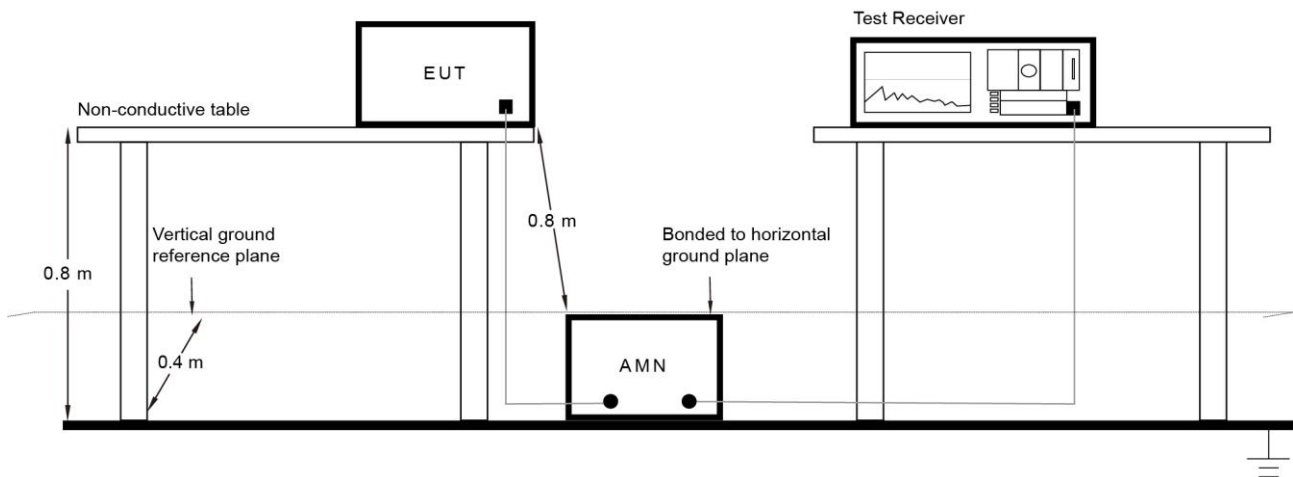
### 6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB $\mu$ V)	AV (dB $\mu$ 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 0.15MHz to 0.5MHz.

### 6.8.2. Test Setup



### 6.8.3. Test Result

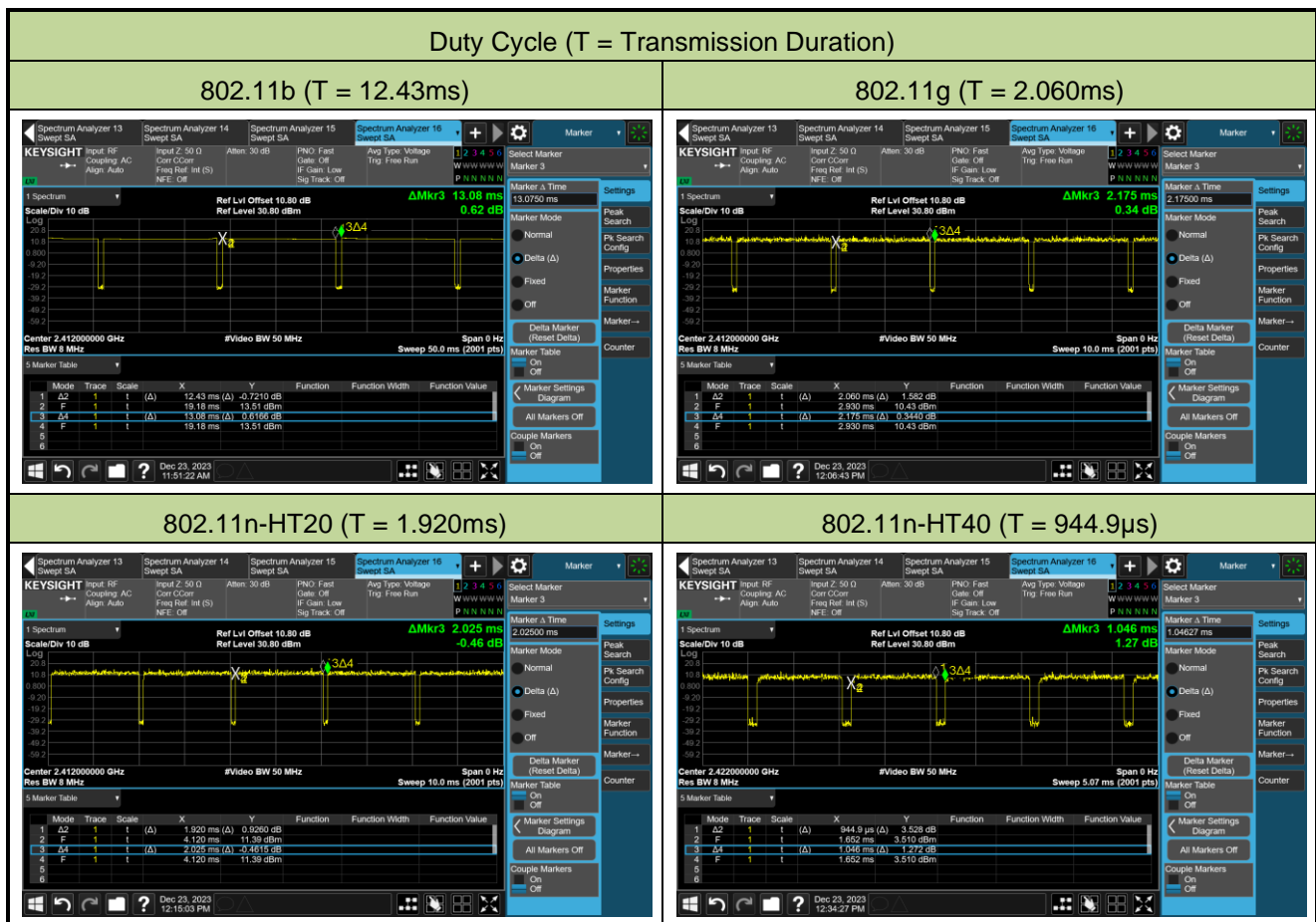
Refer to Appendix A.8.

## Appendix A – Test Result

### A.1 Duty Cycle Test Result

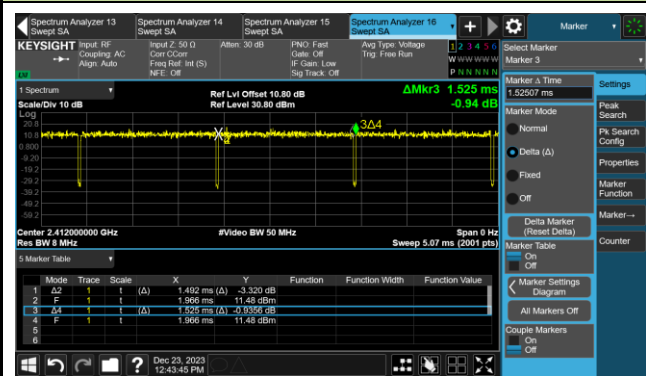
Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-12-23		

Test Mode	Duty Cycle	Test Mode	Duty Cycle
802.11b	95.03%	802.11ax-HE20	97.84%
802.11g	94.71%	802.11ax-HE40	95.97%
802.11n-HT20	94.81%	802.11be-EHT20	97.71%
802.11n-HT40	90.33%	802.11be-EHT40	95.95%

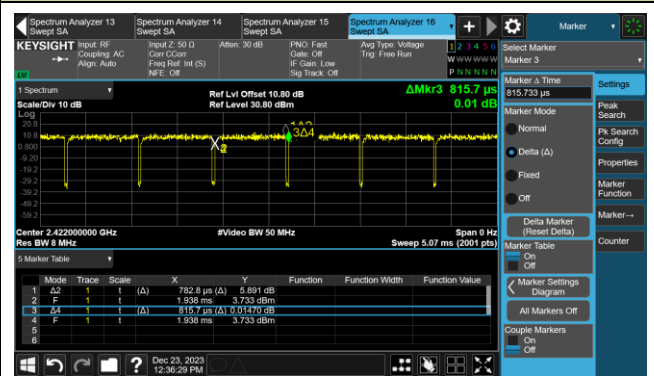


## Duty Cycle (T = Transmission Duration)

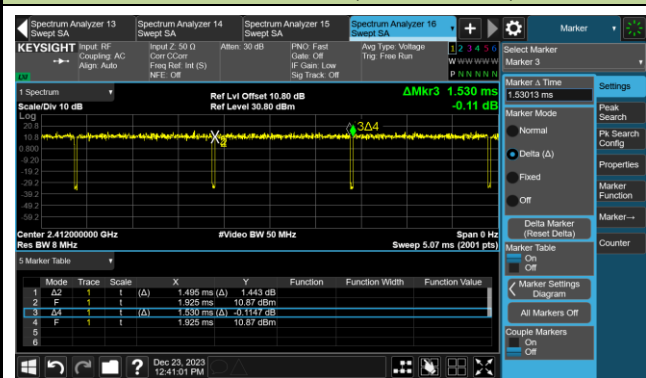
802.11ax-HE20 (T = 1.492ms)



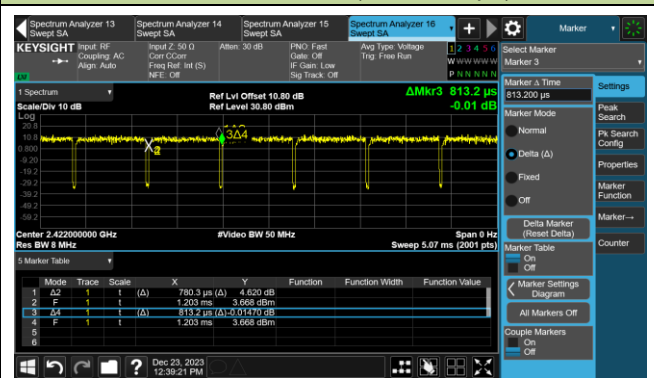
802.11ax-HE40 (T = 782.8μs)



802.11be-EHT20 (T = 1.495ms)



802.11be-EHT40 (T = 780.3μs)



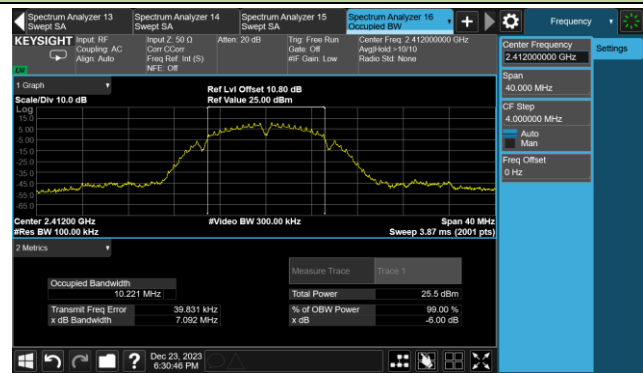
**A.2 6dB Bandwidth Test Result**

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-12-23 ~ 2023-12-25		

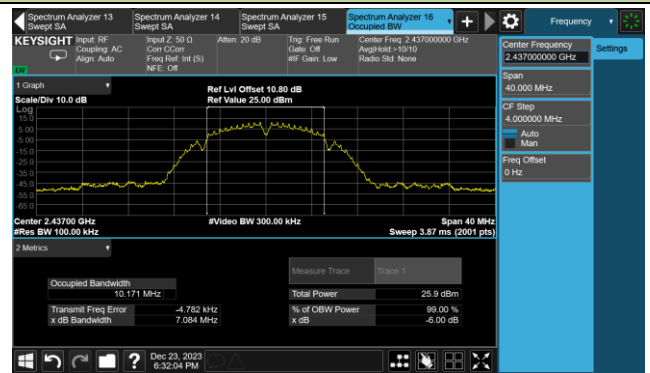
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11b	1Mbps	01	2412	7.092	≥ 0.5
11b	1Mbps	06	2437	7.084	≥ 0.5
11b	1Mbps	11	2462	7.089	≥ 0.5
11g	6Mbps	01	2412	16.41	≥ 0.5
11g	6Mbps	06	2437	16.39	≥ 0.5
11g	6Mbps	11	2462	16.38	≥ 0.5
11n-HT20	MCS0	01	2412	17.63	≥ 0.5
11n-HT20	MCS0	06	2437	17.61	≥ 0.5
11n-HT20	MCS0	11	2462	17.62	≥ 0.5
11n-HT40	MCS0	03	2422	36.34	≥ 0.5
11n-HT40	MCS0	06	2437	36.42	≥ 0.5
11n-HT40	MCS0	09	2452	36.40	≥ 0.5
11ax-HE20	MCS0	01	2412	19.06	≥ 0.5
11ax-HE20	MCS0	06	2437	19.02	≥ 0.5
11ax-HE20	MCS0	11	2462	19.06	≥ 0.5
11ax-HE40	MCS0	03	2422	37.83	≥ 0.5
11ax-HE40	MCS0	06	2437	37.87	≥ 0.5
11ax-HE40	MCS0	09	2452	37.85	≥ 0.5
11be-EHT20	MCS0	01	2412	19.00	≥ 0.5
11be-EHT20	MCS0	06	2437	19.04	≥ 0.5
11be-EHT20	MCS0	11	2462	19.03	≥ 0.5
11be-EHT40	MCS0	03	2422	37.64	≥ 0.5
11be-EHT40	MCS0	06	2437	37.84	≥ 0.5
11be-EHT40	MCS0	09	2452	37.85	≥ 0.5

## 802.11b 6dB Bandwidth

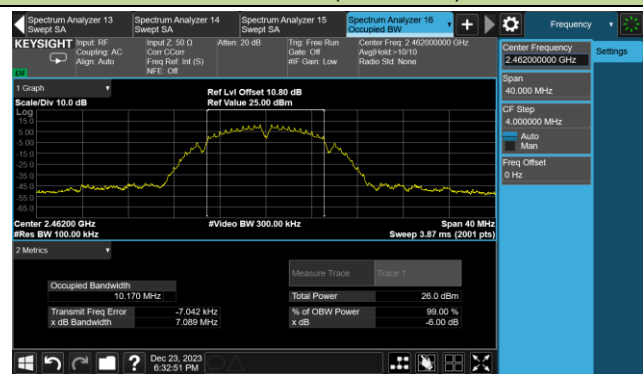
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

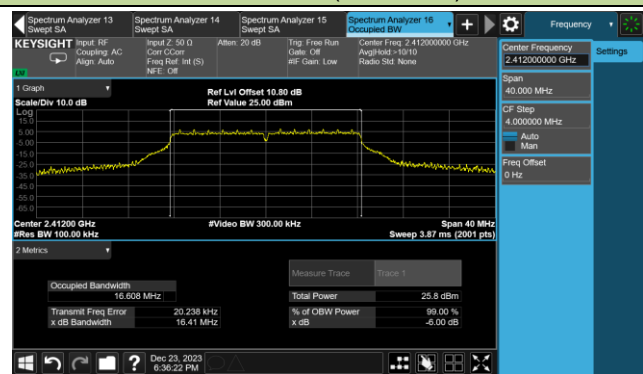


## Channel 11 (2462MHz)

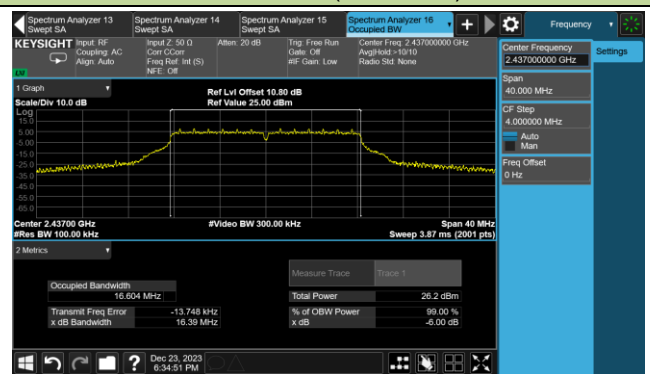


## 802.11g 6dB Bandwidth

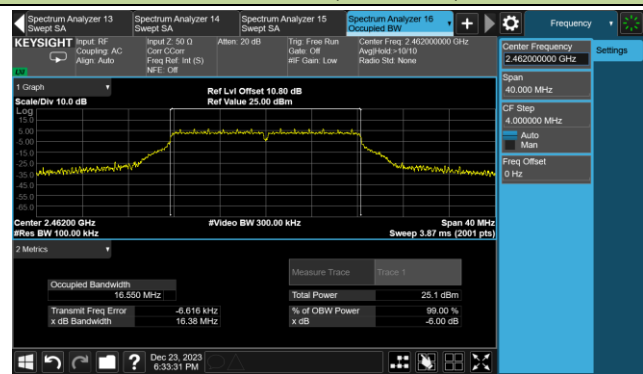
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

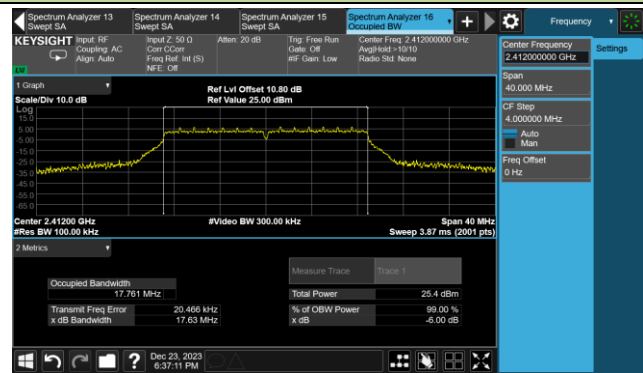


## Channel 11 (2462MHz)

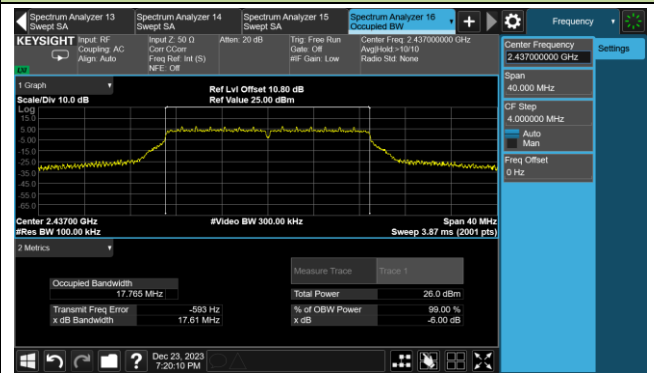


802.11n-HT20 6dB Bandwidth

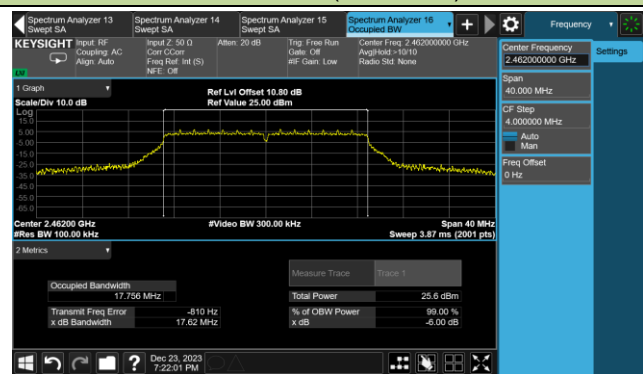
Channel 01 (2412MHz)



Channel 06 (2437MHz)

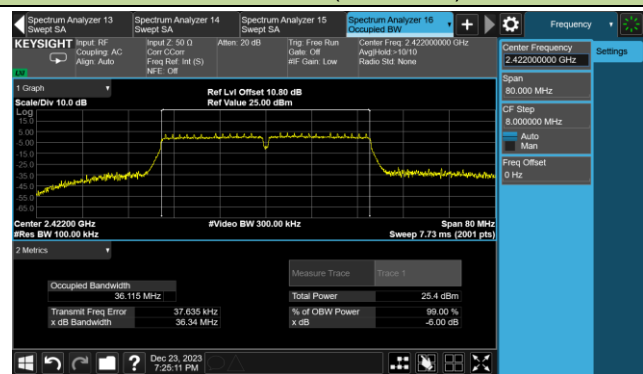


Channel 11 (2462MHz)

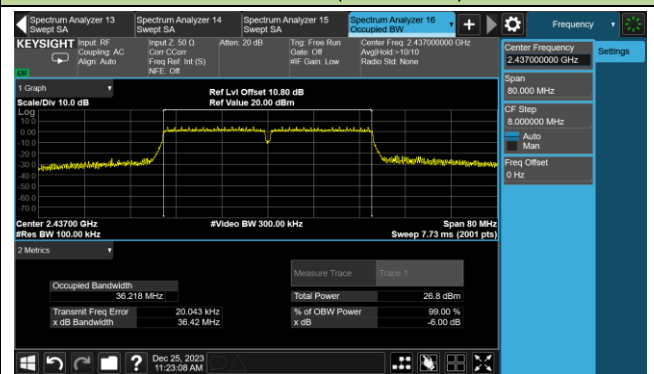


802.11n-HT40 6dB Bandwidth

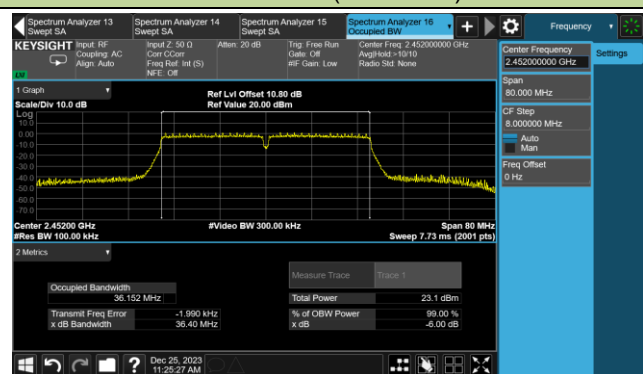
Channel 03 (2422MHz)



Channel 06 (2437MHz)

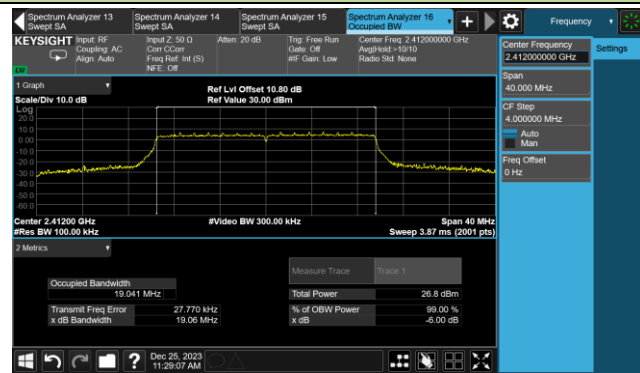


Channel 09 (2452MHz)

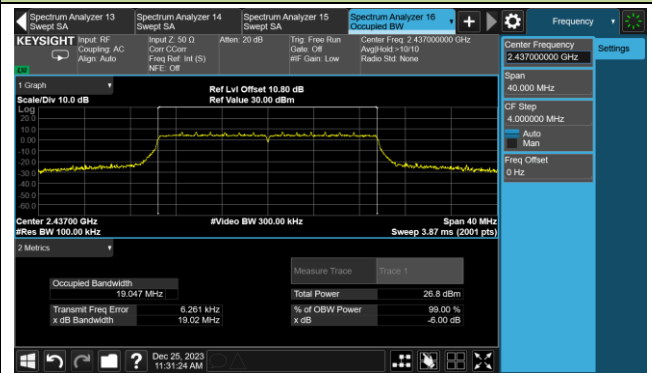


## 802.11ax-HE20 6dB Bandwidth

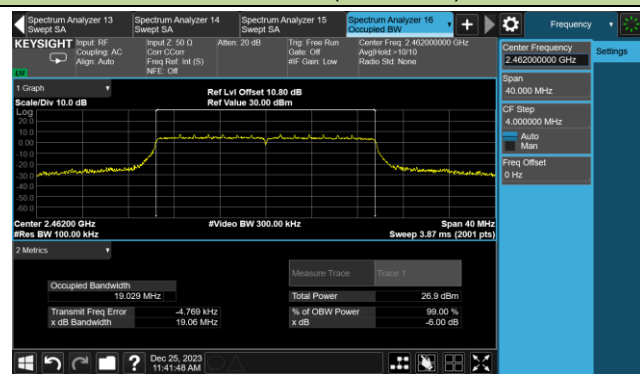
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

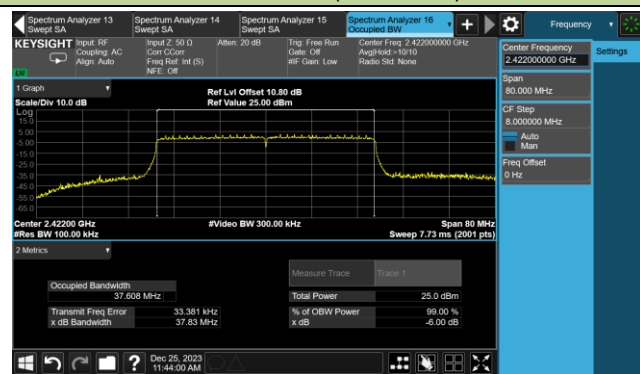


## Channel 11 (2462MHz)

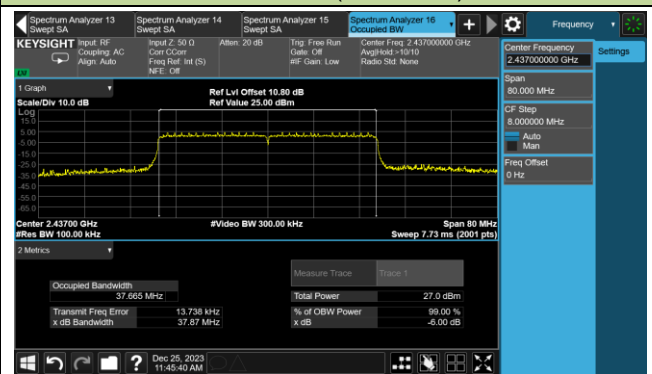


## 802.11ax-HE40 6dB Bandwidth

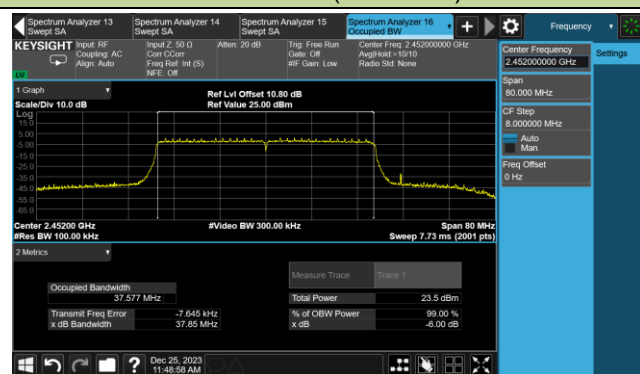
## Channel 03 (2422MHz)



## Channel 06 (2437MHz)



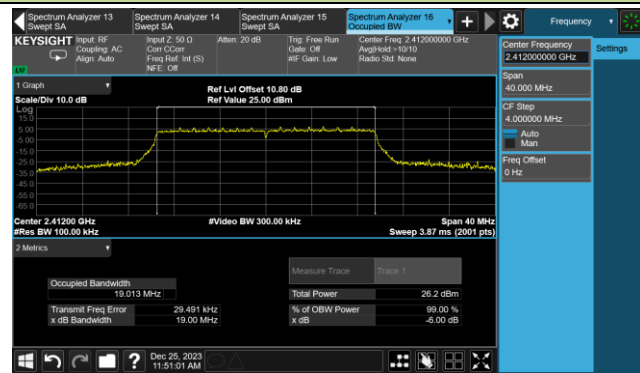
## Channel 09 (2452MHz)



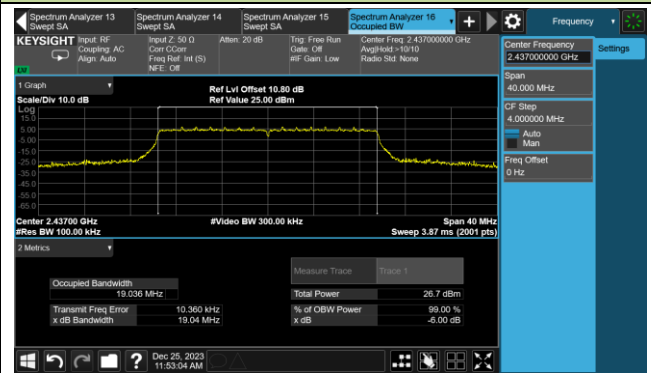


## 802.1be-EHT20 6dB Bandwidth

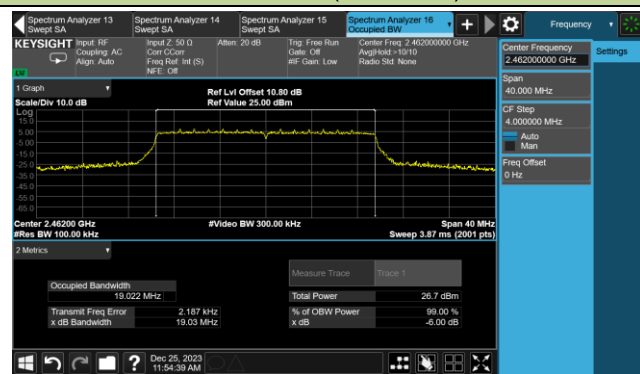
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

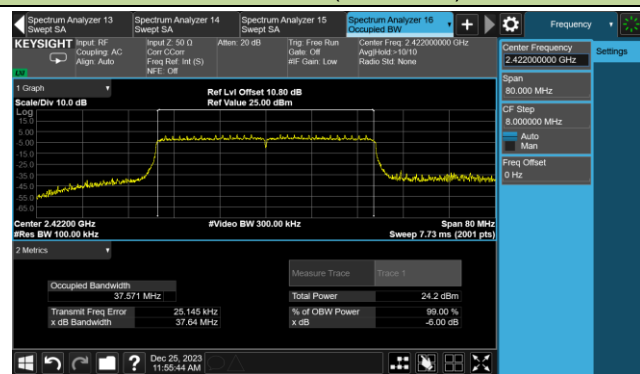


## Channel 11 (2462MHz)

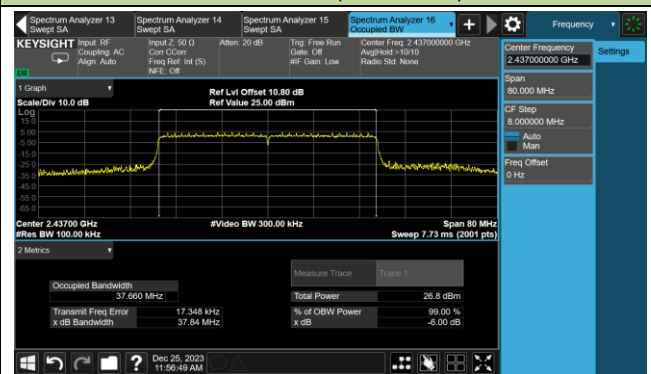


## 802.11be-EHT40 6dB Bandwidth

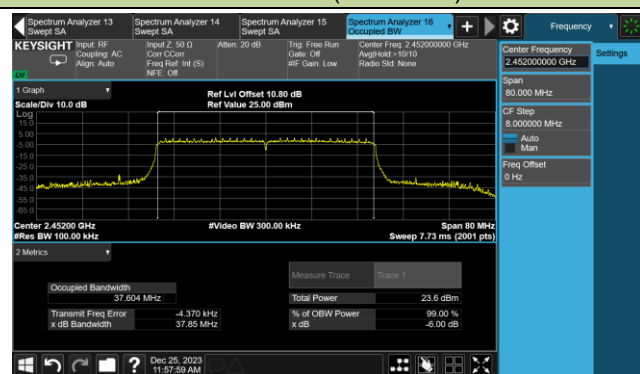
## Channel 03 (2422MHz)



## Channel 06 (2437MHz)



## Channel 09 (2452MHz)



**A.3 Output Power Test Result**

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2024-03-03	Filter	1#

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Limit (dBm)
				Ant 0	Ant 1		
11b	1Mbps	01	2412	18.06	18.34	21.21	≤ 30.00
11b	1Mbps	06	2437	18.45	18.18	21.33	≤ 30.00
11b	1Mbps	11	2462	18.33	18.35	21.35	≤ 30.00
11g	6Mbps	01	2412	17.92	18.42	21.19	≤ 30.00
11g	6Mbps	06	2437	18.32	18.30	21.32	≤ 30.00
11g	6Mbps	11	2462	17.80	18.12	20.97	≤ 30.00
11n-HT20	MCS0	01	2412	18.15	18.45	21.31	≤ 30.00
11n-HT20	MCS0	06	2437	18.39	18.37	21.39	≤ 30.00
11n-HT20	MCS0	11	2462	18.32	18.23	21.29	≤ 30.00
11n-HT40	MCS0	03	2422	18.12	18.49	21.32	≤ 30.00
11n-HT40	MCS0	06	2437	18.08	18.24	21.17	≤ 30.00
11n-HT40	MCS0	09	2452	16.56	16.92	19.75	≤ 30.00
11ax-HE20	MCS0	01	2412	18.20	18.28	21.25	≤ 30.00
11ax-HE20	MCS0	06	2437	18.22	18.09	21.17	≤ 30.00
11ax-HE20	MCS0	11	2462	18.23	18.35	21.30	≤ 30.00
11ax-HE40	MCS0	03	2422	18.02	18.12	21.08	≤ 30.00
11ax-HE40	MCS0	06	2437	18.23	18.43	21.34	≤ 30.00
11ax-HE40	MCS0	09	2452	18.08	18.39	21.25	≤ 30.00
11be-EHT20	MCS0	01	2412	18.15	18.43	21.30	≤ 30.00
11be-EHT20	MCS0	06	2437	18.38	18.19	21.30	≤ 30.00
11be-EHT20	MCS0	11	2462	18.20	18.23	21.23	≤ 30.00
11be-EHT40	MCS0	03	2422	18.33	18.43	21.39	≤ 30.00
11be-EHT40	MCS0	06	2437	18.02	18.22	21.13	≤ 30.00
11be-EHT40	MCS0	09	2452	18.05	18.38	21.23	≤ 30.00

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

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2024-03-03	Filter	2#

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Limit (dBm)
				Ant 0	Ant 1		
11b	1Mbps	01	2412	18.11	18.19	21.16	≤ 30.00
11b	1Mbps	06	2437	18.02	18.16	21.10	≤ 30.00
11g	6Mbps	01	2412	18.10	18.23	21.18	≤ 30.00
11g	6Mbps	06	2437	18.18	18.39	21.30	≤ 30.00
11n-HT20	MCS0	01	2412	17.60	17.97	20.80	≤ 30.00
11n-HT20	MCS0	06	2437	17.85	18.36	21.12	≤ 30.00
11n-HT40	MCS0	03	2422	16.98	17.42	20.22	≤ 30.00
11ax-HE20	MCS0	01	2412	16.51	16.63	19.58	≤ 30.00
11ax-HE20	MCS0	06	2437	17.86	17.88	20.88	≤ 30.00
11ax-HE40	MCS0	03	2422	16.70	16.99	19.86	≤ 30.00
11be-EHT20	MCS0	01	2412	17.03	17.08	20.07	≤ 30.00
11be-EHT20	MCS0	06	2437	18.24	18.20	21.23	≤ 30.00
11be-EHT40	MCS0	03	2422	17.23	17.56	20.41	≤ 30.00

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

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2024-03-03	Filter	3#

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Limit (dBm)
				Ant 0	Ant 1		
11b	1Mbps	11	2462	18.16	18.18	21.18	≤ 30.00
11g	6Mbps	11	2462	15.62	15.60	18.62	≤ 30.00
11n-HT20	MCS0	11	2462	14.95	15.10	18.04	≤ 30.00
11ax-HE20	MCS0	11	2462	14.73	14.86	17.81	≤ 30.00
11be-EHT20	MCS0	11	2462	15.10	14.92	18.02	≤ 30.00

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

**A.4 Power Spectral Density Test Result**

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-12-25~2024-01-29		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/ 10kHz)		Duty Cycle (%)	10*log (1/x)	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)
				Ant 0	Ant 1				
11b	1Mbps	01	2412	-6.978	-6.866	95.03	0.22	-3.69	≤ 7.99
11b	1Mbps	06	2437	-7.134	-6.816	95.03	0.22	-3.74	≤ 7.99
11b	1Mbps	11	2462	-6.434	-6.575	95.03	0.22	-3.27	≤ 7.99
11g	6Mbps	01	2412	-10.877	-10.634	94.71	0.24	-7.51	≤ 7.99
11g	6Mbps	06	2437	-10.823	-10.877	94.71	0.24	-7.60	≤ 7.99
11g	6Mbps	11	2462	-11.611	-11.222	94.71	0.24	-8.17	≤ 7.99
11n-HT20	MCS0	01	2412	-10.736	-10.577	94.81	0.23	-7.41	≤ 7.99
11n-HT20	MCS0	06	2437	-10.930	-10.872	94.81	0.23	-7.66	≤ 7.99
11n-HT20	MCS0	11	2462	-11.377	-11.521	94.81	0.23	-8.21	≤ 7.99
11n-HT40	MCS0	03	2422	-13.443	-13.700	90.33	0.44	-10.12	≤ 7.99
11n-HT40	MCS0	06	2437	-14.113	-13.777	90.33	0.44	-10.49	≤ 7.99
11n-HT40	MCS0	09	2452	-15.100	-14.421	90.33	0.44	-11.30	≤ 7.99
11ax-HE20	MCS0	01	2412	-12.015	-11.640	97.84	0.09	-8.72	≤ 7.99
11ax-HE20	MCS0	06	2437	-12.206	-12.498	97.84	0.09	-9.24	≤ 7.99
11ax-HE20	MCS0	11	2462	-12.898	-12.200	97.84	0.09	-9.43	≤ 7.99
11ax-HE40	MCS0	03	2422	-13.894	-13.447	95.97	0.18	-10.48	≤ 7.99
11ax-HE40	MCS0	06	2437	-14.111	-13.590	95.97	0.18	-10.65	≤ 7.99
11ax-HE40	MCS0	09	2452	-14.324	-13.589	95.97	0.18	-10.75	≤ 7.99
11be-EHT20	MCS0	01	2412	-12.354	-11.741	97.71	0.10	-8.93	≤ 7.99
11be-EHT20	MCS0	06	2437	-11.968	-12.084	97.71	0.10	-8.91	≤ 7.99
11be-EHT20	MCS0	11	2462	-12.430	-12.616	97.71	0.10	-9.41	≤ 7.99
11be-EHT40	MCS0	03	2422	-14.111	-13.551	95.95	0.18	-10.63	≤ 7.99
11be-EHT40	MCS0	06	2437	-14.285	-14.270	95.95	0.18	-11.09	≤ 7.99
11be-EHT40	MCS0	09	2452	-14.767	-13.858	95.95	0.18	-11.10	≤ 7.99

Note 1:

When EUT duty cycle ≥ 98%, Total PSD (dBm / 10kHz) = 10\*log {10<sup>(Ant 0 PSD/10)</sup> + 10<sup>(Ant 1 PSD/10)</sup>} (dBm / 10kHz).

When EUT duty cycle < 98%, Total PSD (dBm / 10kHz) = 10\*log {10<sup>(Ant 0 PSD/10)</sup> + 10<sup>(Ant 1 PSD/10)</sup>} (dBm / 10kHz) + 10\*log (1/Duty Cycle).

Note 2: PSD Limit (dBm/3kHz) = 8 – (Directional Gain for PSD – 6) = 7.99 dBm/3kHz.

802.11b - AVGPSD - Ant 0

Channel 01 (2412MHz)



Channel 06 (2437MHz)

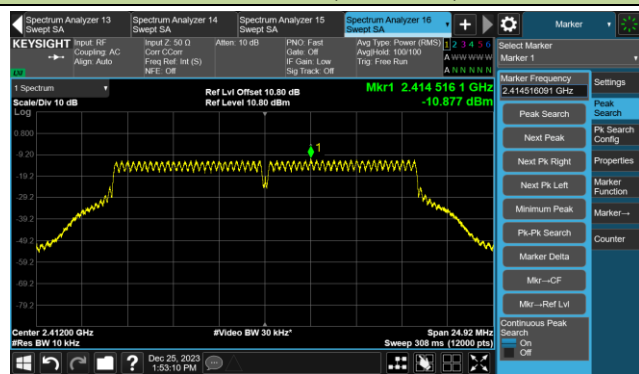


Channel 11 (2462MHz)

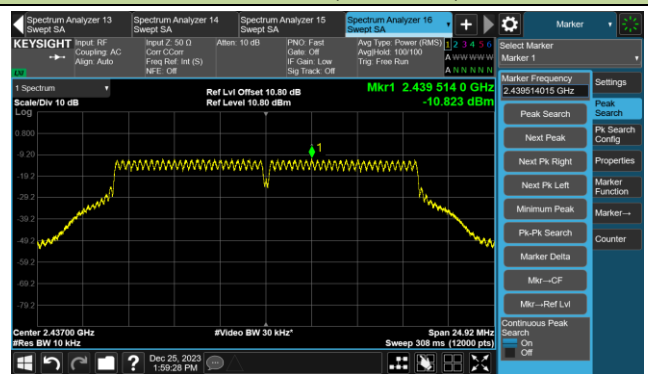


802.11g - AVGPSD - Ant 0

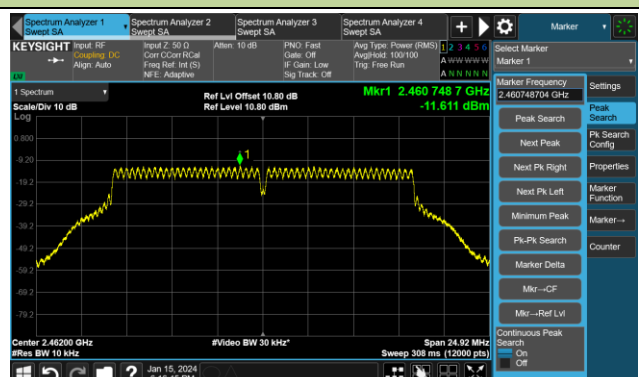
Channel 01 (2412MHz)



Channel 06 (2437MHz)

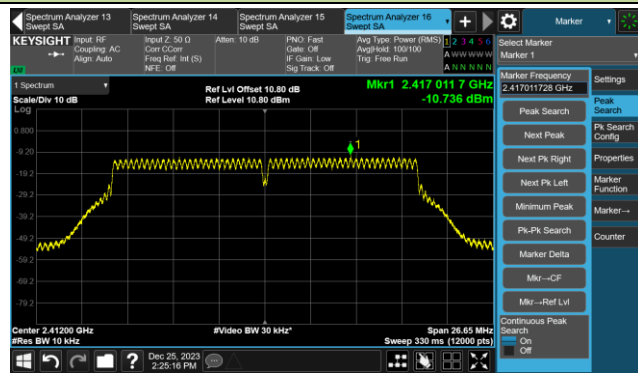


Channel 11 (2462MHz)

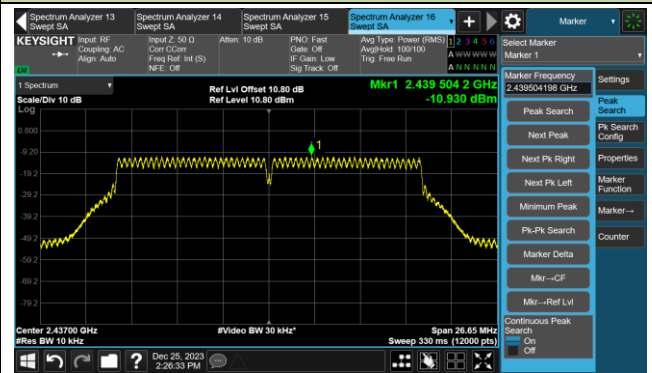


802.11n-HT20 - AVGPSD - Ant 0

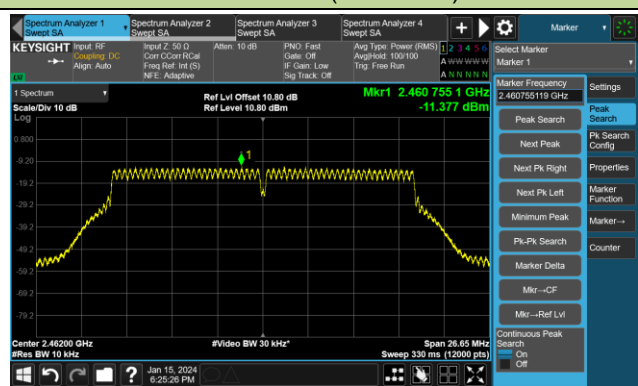
Channel 01 (2412MHz)



Channel 06 (2437MHz)

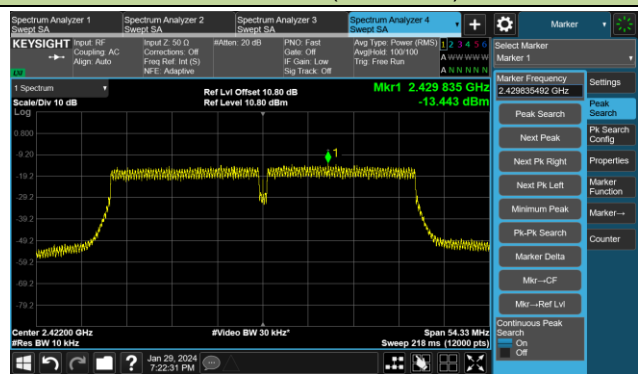


Channel 11 (2462MHz)

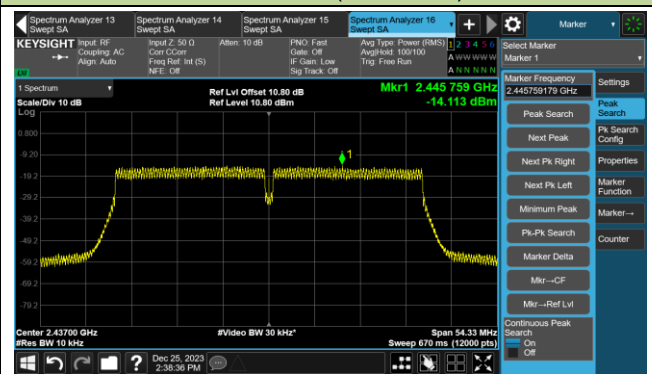


802.11n-HT40 - AVGPSD - Ant 0

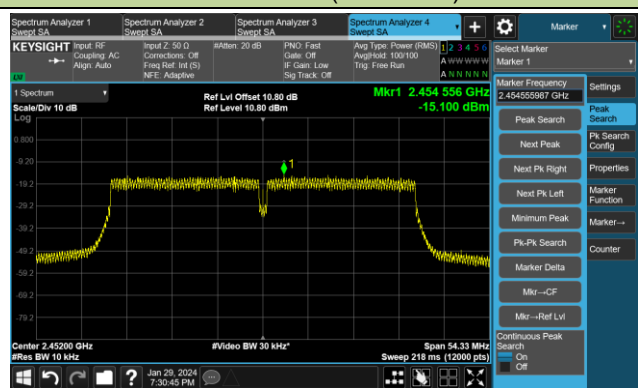
Channel 03 (2422MHz)



Channel 06 (2437MHz)

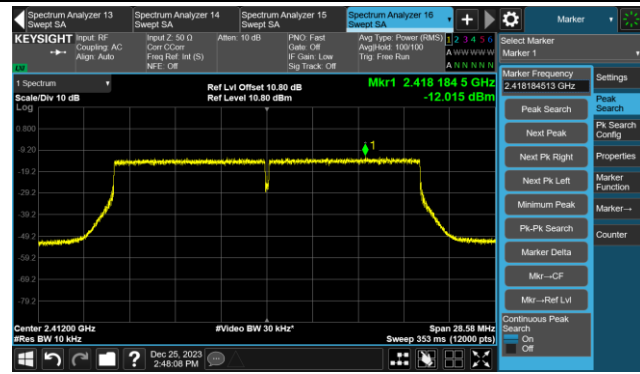


Channel 09 (2452MHz)

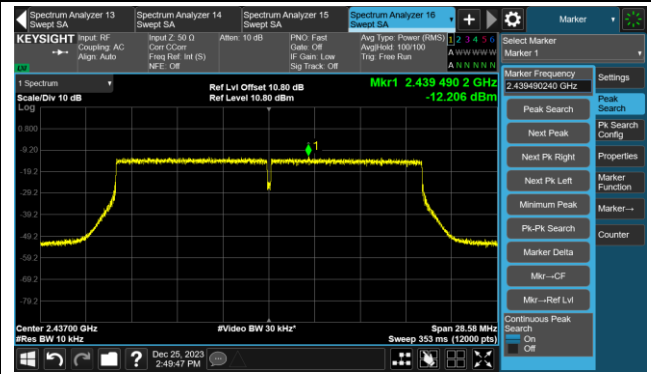


802.11ax-HE20 - AVGPSD - Ant 0

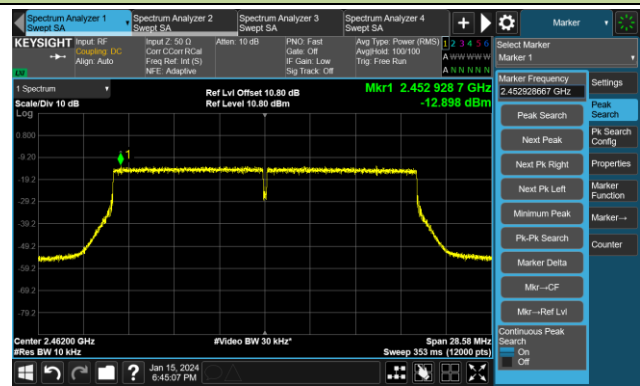
Channel 01 (2412MHz)



Channel 06 (2437MHz)

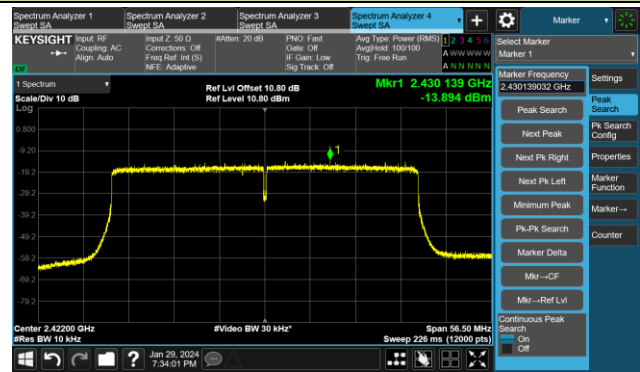


Channel 11 (2462MHz)

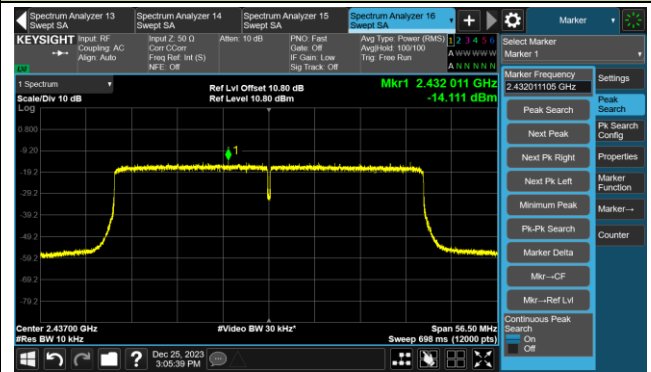


802.11ax-HE40 - AVGPSD - Ant 0

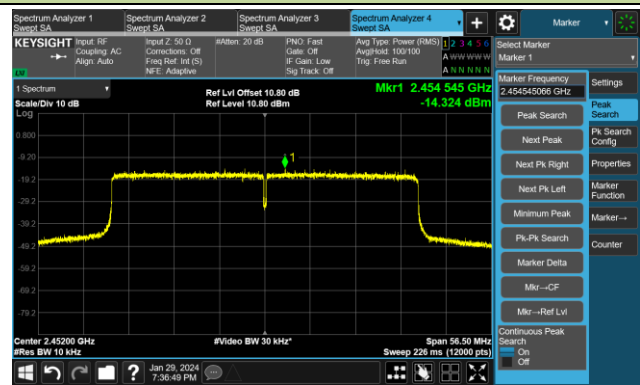
Channel 03 (2422MHz)



Channel 06 (2437MHz)

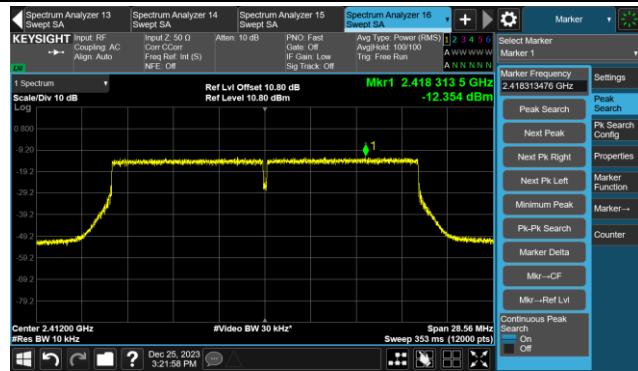


Channel 09 (2452MHz)

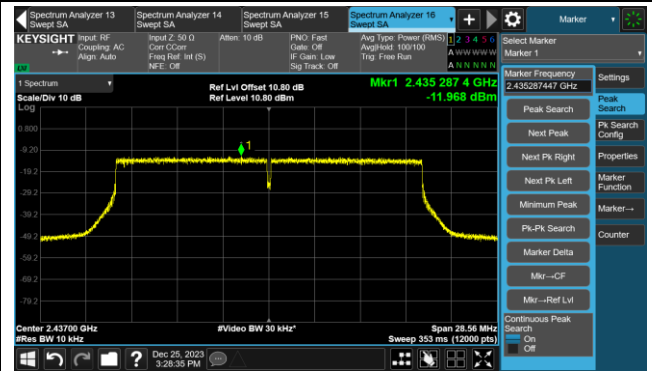


802.11be-EHT20 - AVGPSD - Ant 0

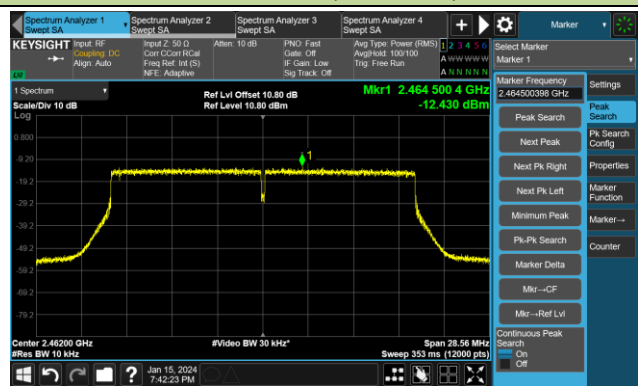
Channel 01 (2412MHz)



Channel 06 (2437MHz)

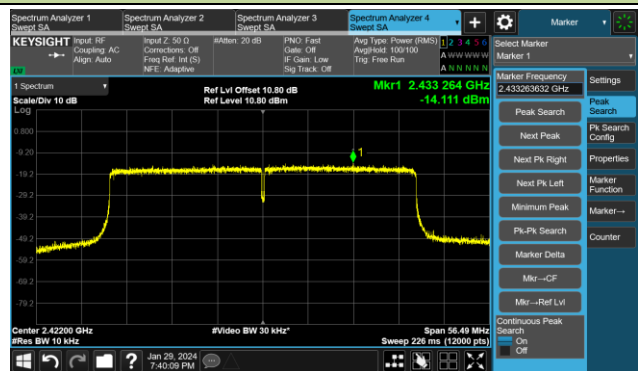


Channel 11 (2462MHz)

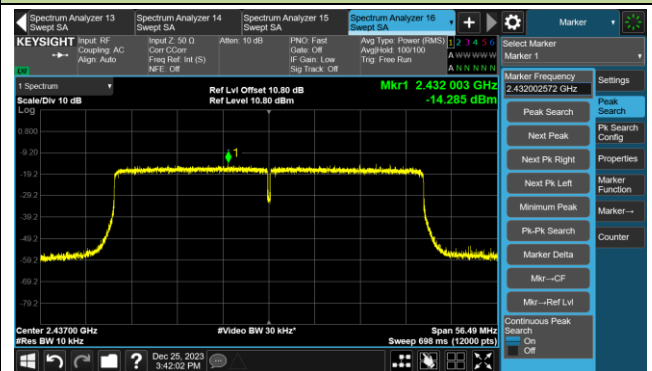


802.11be-EHT40 - AVGPSD - Ant 0

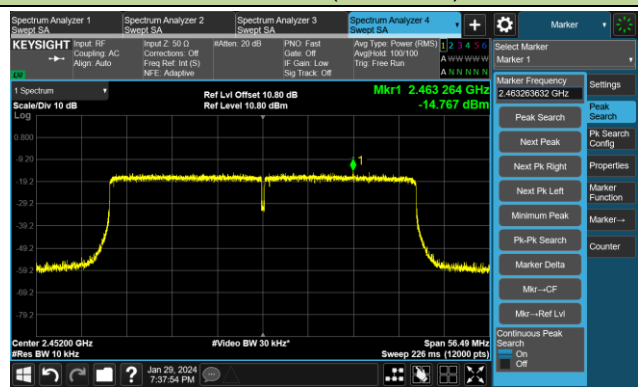
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)





802.11b - AVGPSD - Ant 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)

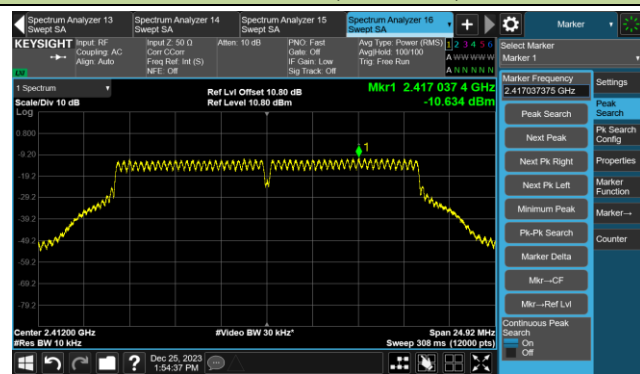


Channel 11 (2462MHz)

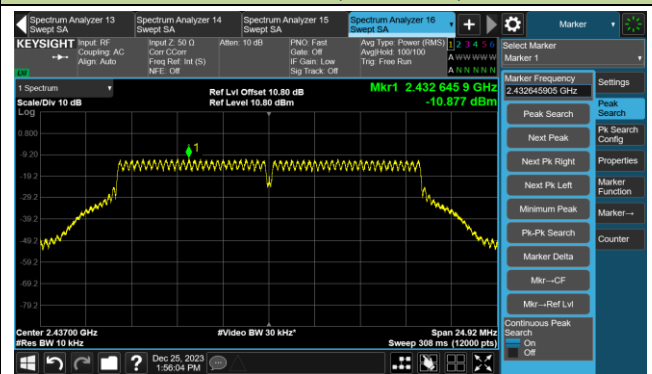


802.11g - AVGPSD - Ant 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

