



RF MEASUREMENT REPORT

FCC ID: HD5-EDA10A1
Applicant: Honeywell International Inc
Product: Tablet Computer
Model No.: EDA10A-1
Brand Name: Honeywell
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part 15 Subpart C (Section 15.247)
Result: Complies
Received Date: 2025-04-08
Test Date: 2025-04-27 ~ 2025-05-22

Reviewed By:

Ada Zhang

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
R25S1020041-U205	V01	Initial Report	2025-05-28	Valid

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1. General Information

1.1. Applicant

Honeywell International Inc

9680 Old Bailes Rd. Fort Mill, SC 29707 United States

1.2. Manufacturer

Honeywell International Inc

9680 Old Bailes Rd. Fort Mill, SC 29707 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 FCC: CN1166 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
	CNAS: L10551 ISED: CN0001
☐	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 FCC: CN1284
CNAS: L10551 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	Tablet Computer
Model No.	EDA10A-1
Brand Name	Honeywell
EUT Identification No.	Conducted: 20250408Sample#13 Radiated: 20250408Sample#21
Bluetooth Specification	Dual mode v5.1
Wi-Fi Specification	802.11a/b/g/n/ac/ax/VHT
NFC Specification	13.56MHz
GNSS Specification	GPS, Beidou, Glonass, Galileo
3GPP Specification	GSM 850/PCS 1900 WCDMA Band: II/IV/V LTE Band: 2/4/5/7/12/13/17/25/26/66/38/41/42/43 NR SA Band: n2/5/7/25/26/38/41/66/77/78 NR NSA Band: EN_DC_XA_n41A/EN_DC_XA_n77A/EN_DC_XA_n78A
Antenna Specification	Refer to clause 1.7
Operating Temp.	-20 ~ 50 °C
Power Type	By Rechargeable Li-ion Battery
Accessory	
Rechargeable Li-ion Battery	Model: BAT-EDA10A Nominal Voltage: 3.85Vdc Rated Capacity: 8000mAh Limited Charging Voltage: 4.4Vdc Rated Energy: 30.80Wh
Note: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Frequency Range	802.11b/g/n-HT20/ax-HE20: 2412 ~ 2462MHz VHT20: 2412 ~ 2462MHz 802.11n-HT40/ax-HE40: 2422 ~ 2452MHz VHT40: 2422 ~ 2452MHz		
Channel Number	802.11b/g/n-HT20/ax-HE20: 11 VHT20: 11 802.11n-HT40/ax-HE40: 7 VHT40: 7		
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM VHT: OFDM 802.11ax: 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 VHT: up to 400Mbps		
Support RU	☒ Full RU	☒ Partial RU	☒ Single RU
			☐ Multi RU
			☐ Channel Puncturing

1.6. Working Frequencies

802.11b/g/n-HT20/ax-HE20/VHT20

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/VHT40

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. Antenna Details

Antenna Type	Frequency Band (MHz)	Antenna Gain (dBi)		CDD Directional Gain (dBi)		Beamforming Directional Gain (dBi)
		Ant 2	Ant 3	Uncorrelated (For Power)	Correlated (For PSD)	
Wi-Fi Antennas						
PIFA	2400 ~ 2500	1.8	4.8	4.80	7.81	7.81
	5150 ~ 5250	2.2	0.1	2.20	5.21	5.21
	5250 ~ 5350	2.2	0.1	2.20	5.21	5.21
	5470 ~ 5725	2.3	3.1	3.10	6.11	6.11
	5725 ~ 5850	2.5	3.1	3.10	6.11	6.11

Note 1: The EUT supports Cyclic Delay Diversity (CDD) mode, For CDD transmissions, directional gain is calculated as follows.

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

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

Note 2: The EUT supports beamforming mode for VHT, 802.11n/ac/ax, for beamforming operation, the software automatically backs power down based on CDD power.

2. Test Configuration

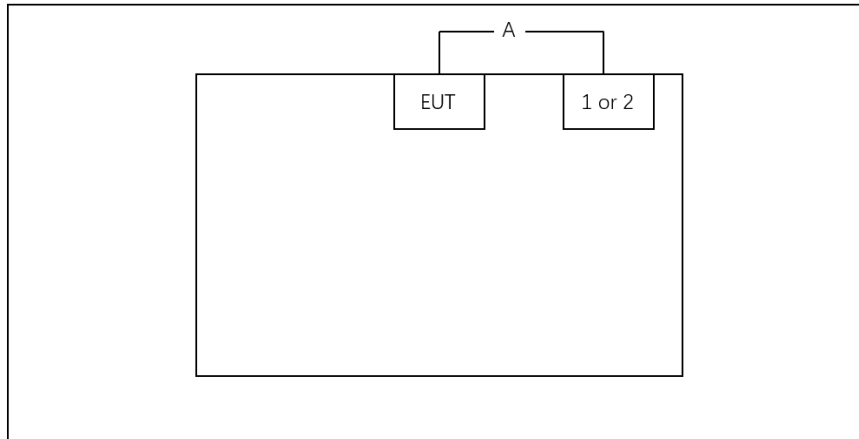
2.1. Test Mode

CDD Mode
Mode 1: Transmit by 802.11b (1Mbps)
Mode 2: Transmit by 802.11g (6Mbps)
Mode 3: Transmit by 802.11n-HT20 _N _{SS} =1 (MCS0)
Mode 4: Transmit by 802.11n-HT40 _N _{SS} =1 (MCS0)
Mode 5: Transmit by 802.11ax-HE20 _N _{SS} =1 (MCS0)
Mode 6: Transmit by 802.11ax-HE40 _N _{SS} =1 (MCS0)
Mode 7: Transmit by VHT20 _N _{SS} =1 (MCS0)
Mode 8: Transmit by VHT40 _N _{SS} =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. For CDD mode, this device supports 2N_{SS} and power level is the same of spatial multiplexing. The worst case is N_{SS}=1. 3. For 802.11ax, the EUT supports 26/52/106/242/484-tone RU, The PSD of the partial RU has been minimized to be less than full RU. 4. For beamforming operation, manufacturer automatically backs power down based on CDD power. Therefore, only the CDD mode was evaluated in this report.

2.2. Test System Connection Diagram

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

Connection Diagram



No.	Cable Type	Cable Spec.	Length
A	USB-C Cable	Shielding	1.2m
No.	Product	Manufacturer	Model No.
1	Adapter (for AC Conducted Emissions)	Shenzhen Honor Electronic Co., Ltd	ADS-12B-06 05010E
2	Notebook (for Radiated Emissions)	Lenovo	E431

2.3. Test Software

The test utility software used during testing was “adb.exe” and commands were provided by manufacturer.

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.”

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

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2025-05-12	WZ-SR5
				1 year	2026-04-24	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2025-05-20	WZ-SR5
				1 year	2026-05-17	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2026-04-26	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11091	1 year	2025-06-05	WZ-SR5
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2026-04-26	WZ-SR2
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2026-04-24	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2025-09-05	WZ-SR2
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2026-03-22	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2026-04-26	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2025-09-23	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2026-03-18	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2026-04-17	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2025-11-03	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2026-01-09	WZ-AC2
Horn Antenna	ETS	3117	MRTSUE06257	1 year	2025-09-08	WJ-AC1
Microwave Broadband Preamplifier	Schwarzbeck	BBV 9718 D	MRTSUE07084	1 year	2025-12-22	WJ-AC1
TRILOG Broad Band Antenna	Schwarzbeck	VULB 9163	MRTSUE07096	1 year	2026-04-16	WJ-AC1
EMI Test Receiver	R&S	ESR3	MRTSUE07110	1 year	2026-04-19	WJ-AC1
Anechoic Chamber	TDK	WJ-AC1	MRTSUE07115	1 year	2025-05-17	WJ-AC1
				1 year	2026-05-16	WJ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11333	1 year	2025-06-24	WJ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11402	1 year	2025-12-01	WJ-AC1
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2025-11-19	WJ-AC1
EXA Signal Analyzer	Keysight	N9010B	MRTSUE07147	1 year	2025-11-06	WJ-AC1
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2025-07-26	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2025-11-08	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2026-04-17	WZ-AC1

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2025-10-13	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2025-10-16	WZ-AC1

Software	Version	Function
e3	230711	RE & CE
CONTROLLER CO3000	v 1.03.02	RE Antenna & Turntable
Controller_MF 7802	1.02	RE Antenna & Turntable
Controller_MF 7802	2.03C	RE Antenna & Turntable
BenchVue Power Meter	2018.1	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

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

5.2. Measurement Uncertainty

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

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

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:

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 tests, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
3. The full RU has higher power levels than partial RU, therefore full test was performed for full RU. For partial RU, we do some spot check testing on partial items "Output Power", "Power Spectral Density", "Band Edge / Out-of-Band Emissions" and "General Field Strength (Restricted Bands and Radiated Emission)".

6.2. 6dB Bandwidth Measurement

6.2.1. Test Limit

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

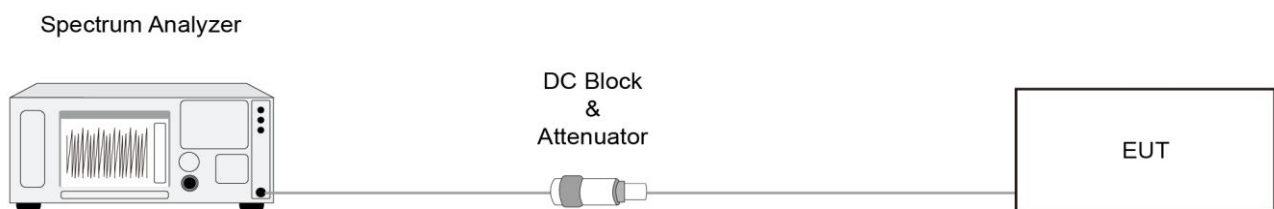
6.2.2. Test Procedure

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

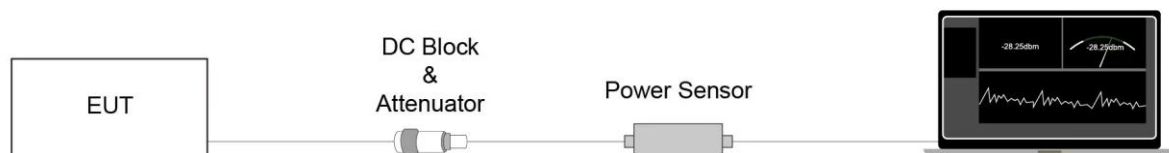
ANSI C63.10 - 2013 - Section 11.9.2.3.2

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.

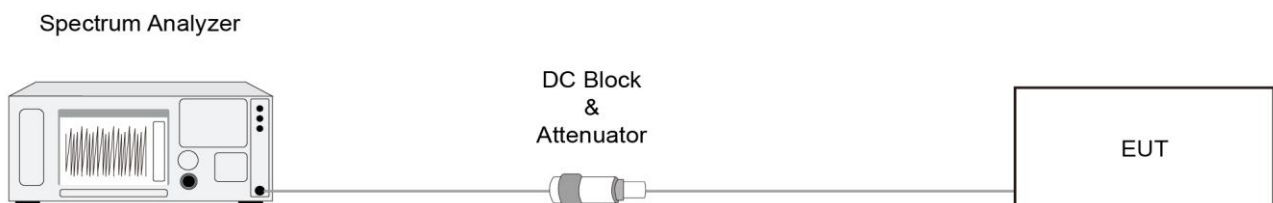
6.4.2. Test Procedure

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 $\geq 2 \times \text{span/RBW}$.
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

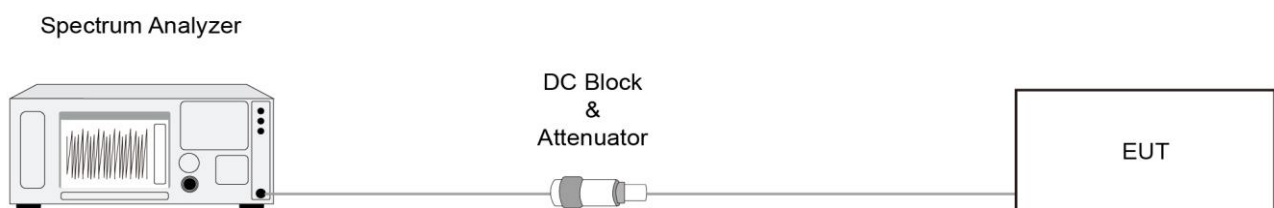
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 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



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

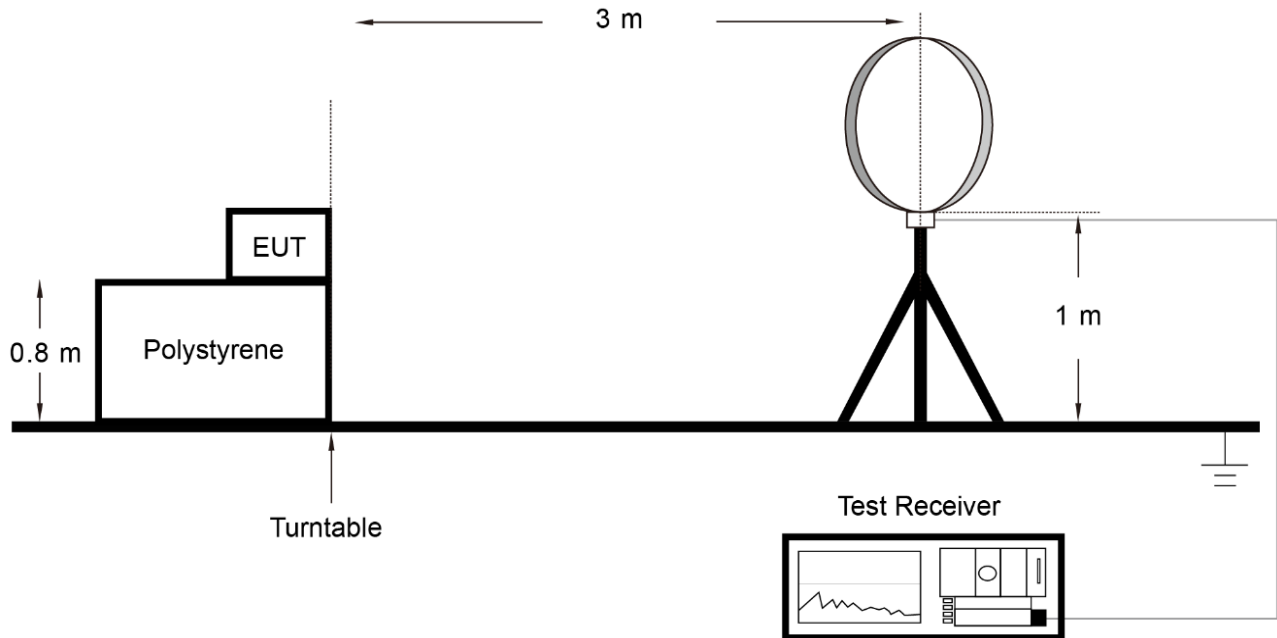
Average Measurements above 1GHz (Method VB)

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

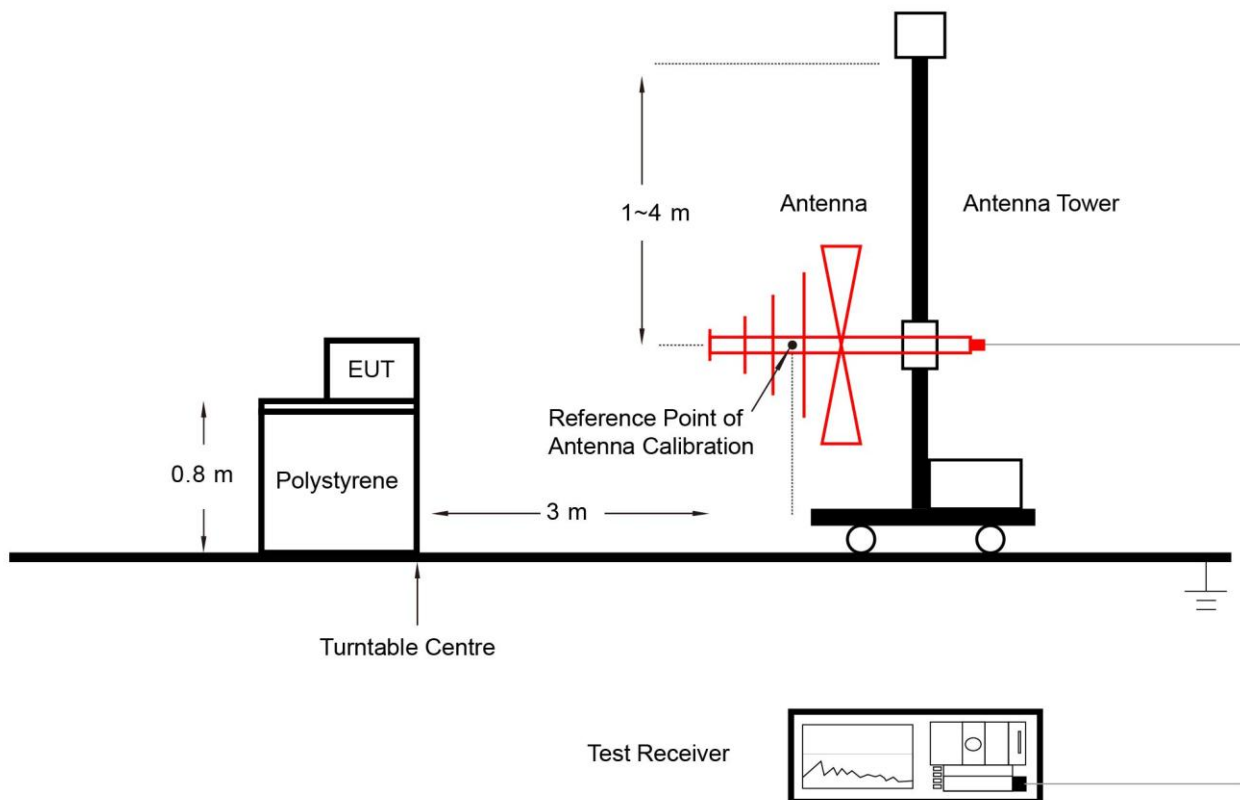
If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require 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

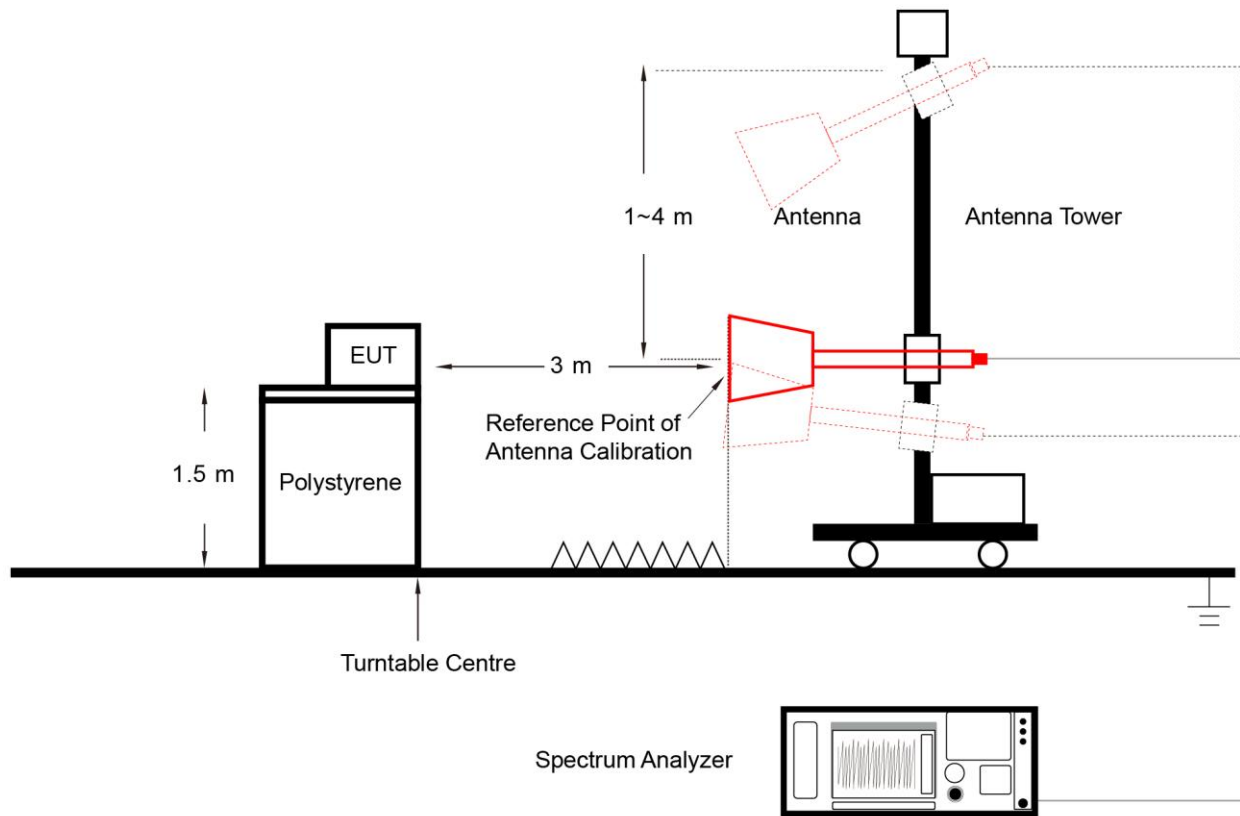
Below 30MHz Test Setup:



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

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 [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

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

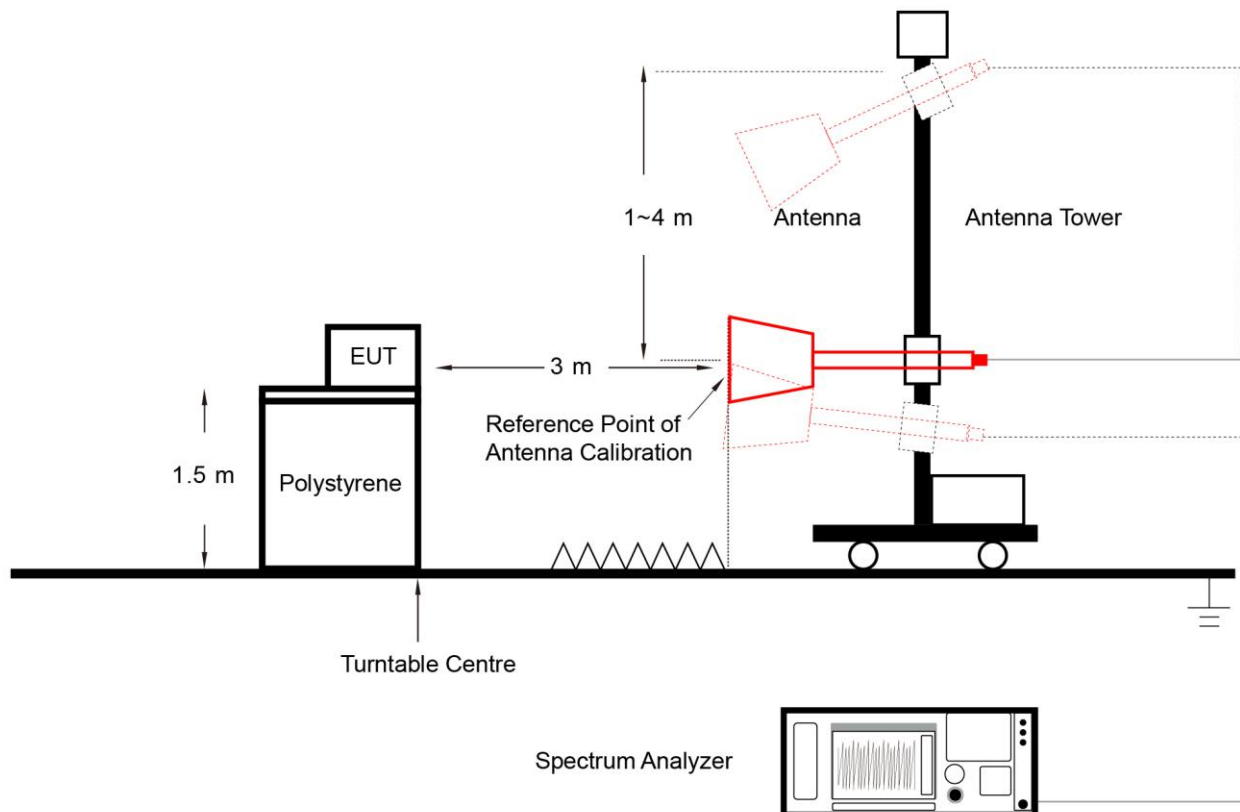
Average Field Strength Measurements

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.

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

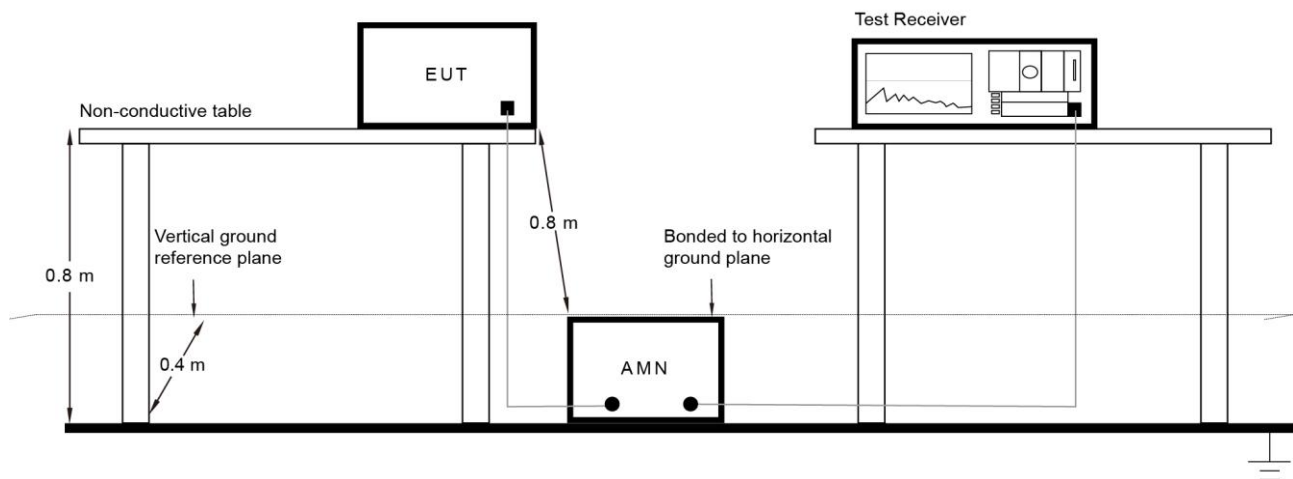
6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB 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 0.15MHz to 0.5MHz.

6.8.2. Test Setup



6.8.3. Test Result

Refer to Appendix A.8.

Appendix A – Test Result

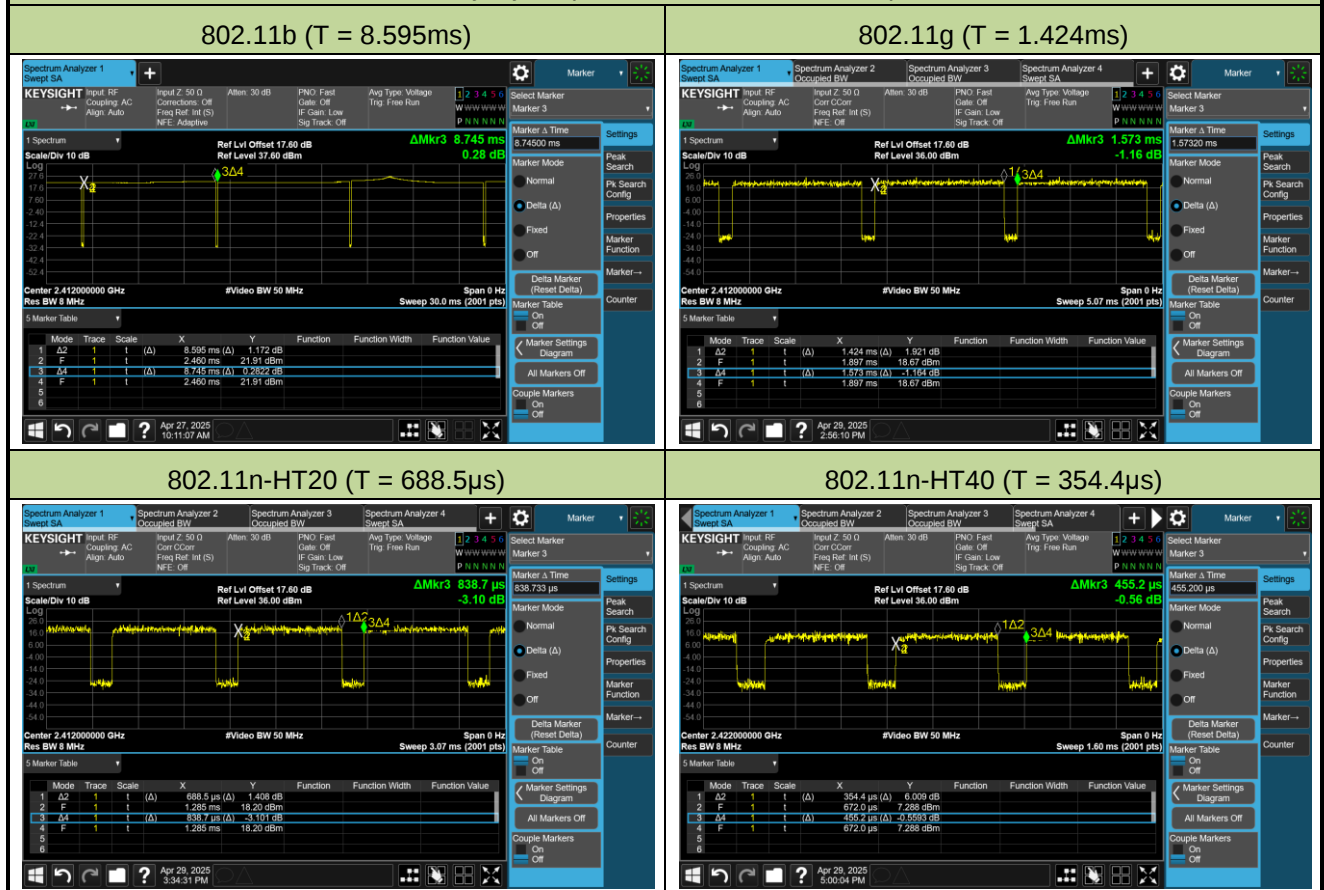
A.1 Duty Cycle Test Result

Full RU

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-04-27 ~ 2025-04-30		

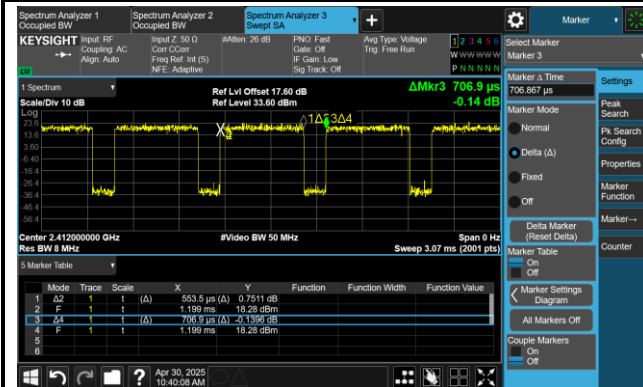
Test Mode	Duty Cycle	Test Mode	Duty Cycle
802.11b	98.28%	802.11ax-HE20	78.30%
802.11g	90.53%	802.11ax-HE40	75.34%
802.11n-HT20	82.09%	VHT20	82.07%
802.11n-HT40	77.86%	VHT40	78.05%

Duty Cycle (T = Transmission Duration)

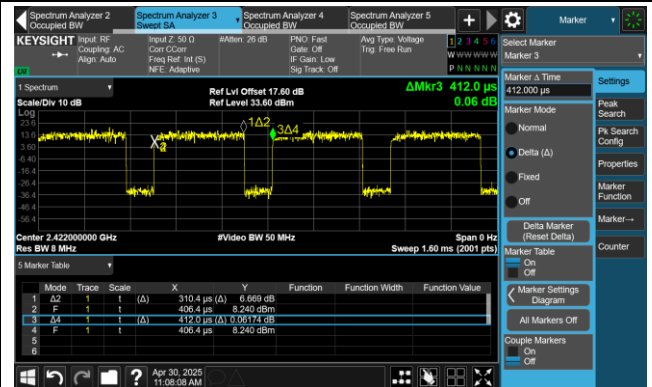


Duty Cycle (T = Transmission Duration)

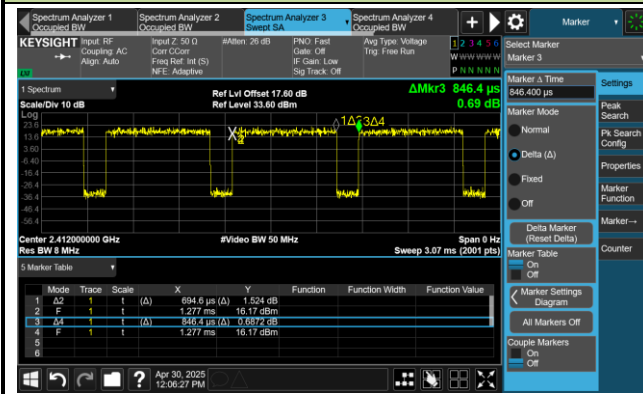
802.11ax-HE20 (T = 553.5µs)



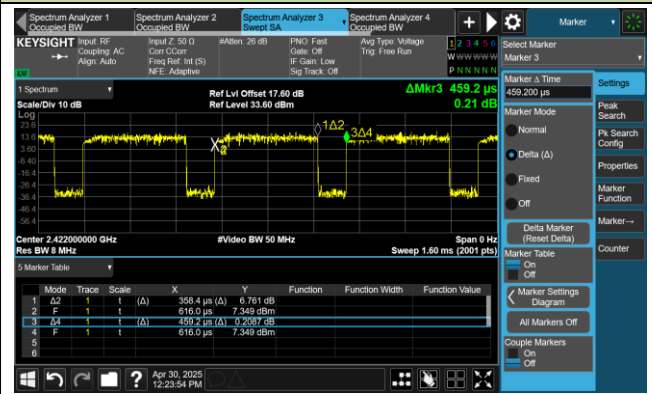
802.11ax-HE40 (T = 310.4µs)



VHT20 (T = 694.6µs)



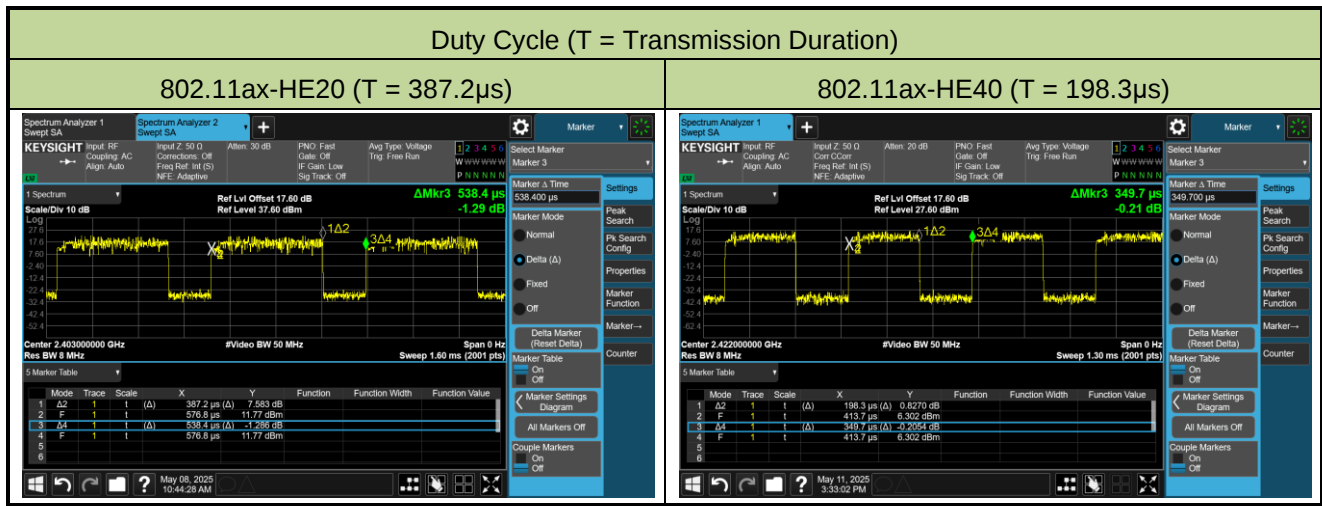
VHT40 (T = 358.4µs)



Partial RU

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-05-08 ~ 2025-05-11		

Test Mode	Duty Cycle
802.11ax-HE20	71.92%
802.11ax-HE40	56.71%



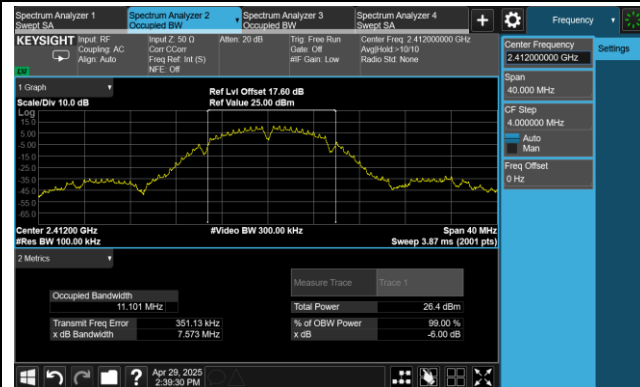
A.2 6dB Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-04-29 ~ 2025-05-02		

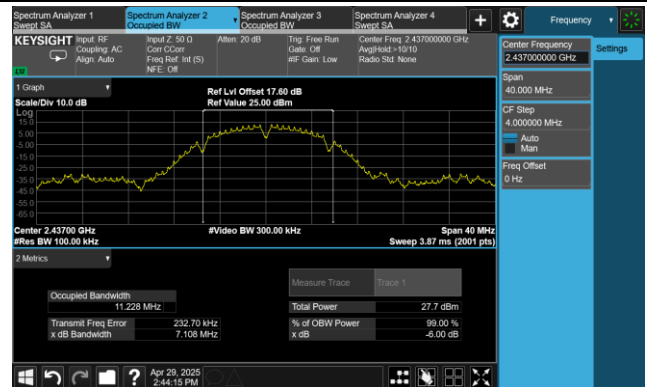
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11b	1Mbps	01	2412	7.573	≥ 0.5
11b	1Mbps	06	2437	7.108	≥ 0.5
11b	1Mbps	11	2462	7.586	≥ 0.5
11g	6Mbps	01	2412	16.090	≥ 0.5
11g	6Mbps	06	2437	16.350	≥ 0.5
11g	6Mbps	11	2462	16.330	≥ 0.5
11n-HT20	MCS0	01	2412	16.680	≥ 0.5
11n-HT20	MCS0	06	2437	17.570	≥ 0.5
11n-HT20	MCS0	11	2462	17.420	≥ 0.5
11n-HT40	MCS0	03	2422	36.150	≥ 0.5
11n-HT40	MCS0	06	2437	36.410	≥ 0.5
11n-HT40	MCS0	09	2452	36.430	≥ 0.5
11ax-HE20	MCS0	01	2412	18.820	≥ 0.5
11ax-HE20	MCS0	06	2437	18.740	≥ 0.5
11ax-HE20	MCS0	11	2462	18.840	≥ 0.5
11ax-HE40	MCS0	03	2422	37.800	≥ 0.5
11ax-HE40	MCS0	06	2437	37.830	≥ 0.5
11ax-HE40	MCS0	09	2452	37.850	≥ 0.5
VHT20	MCS0	01	2412	16.960	≥ 0.5
VHT20	MCS0	06	2437	17.590	≥ 0.5
VHT20	MCS0	11	2462	17.360	≥ 0.5
VHT40	MCS0	03	2422	36.380	≥ 0.5
VHT40	MCS0	06	2437	36.440	≥ 0.5
VHT40	MCS0	09	2452	36.410	≥ 0.5

802.11b 6dB Bandwidth

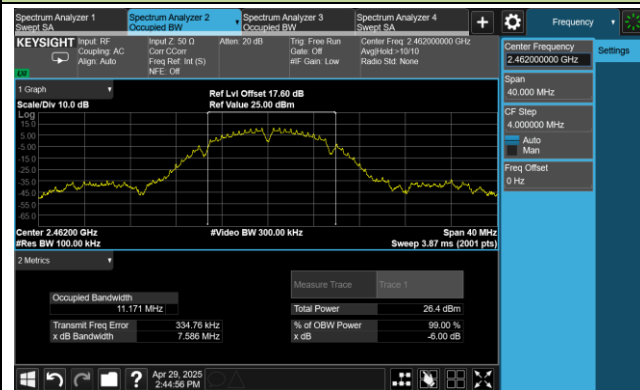
Channel 01 (2412MHz)



Channel 06 (2437MHz)

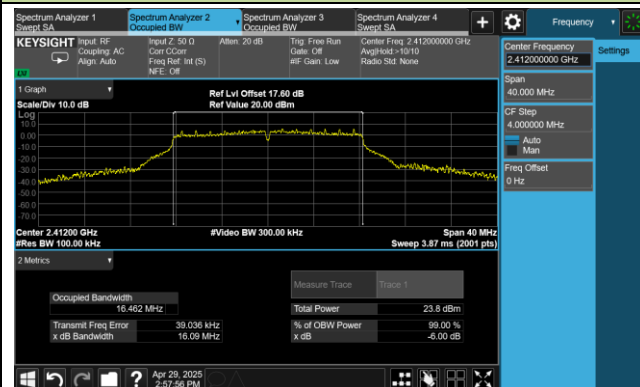


Channel 11 (2462MHz)

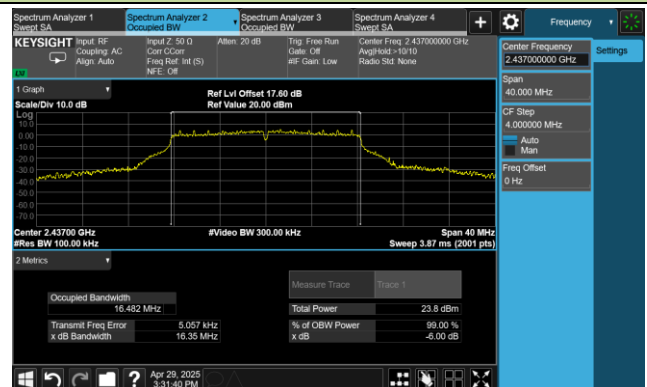


802.11g 6dB Bandwidth

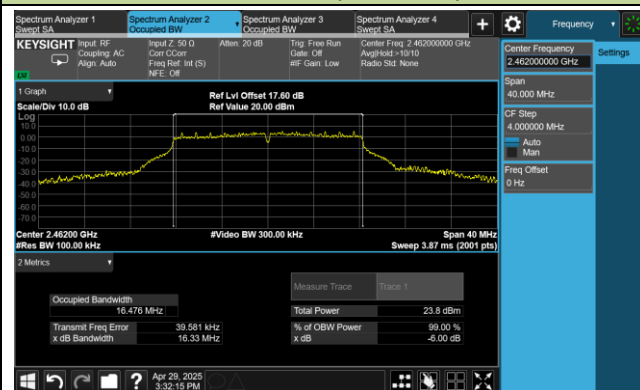
Channel 01 (2412MHz)



Channel 06 (2437MHz)

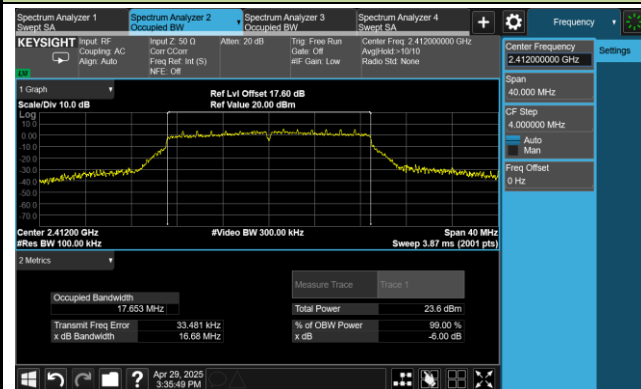


Channel 11 (2462MHz)

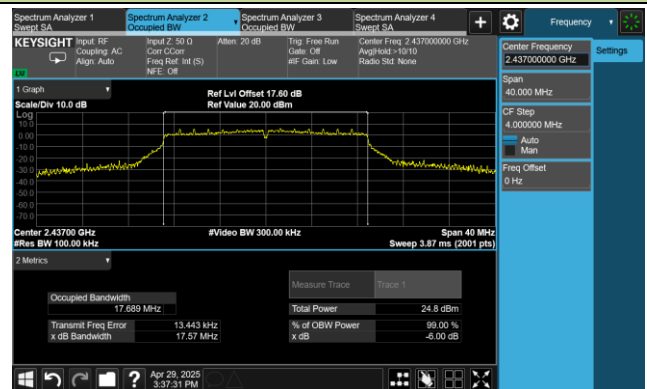


802.11n-HT20 6dB Bandwidth

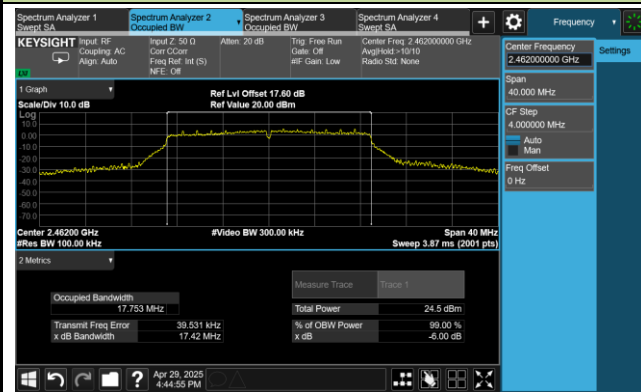
Channel 01 (2412MHz)



Channel 06 (2437MHz)

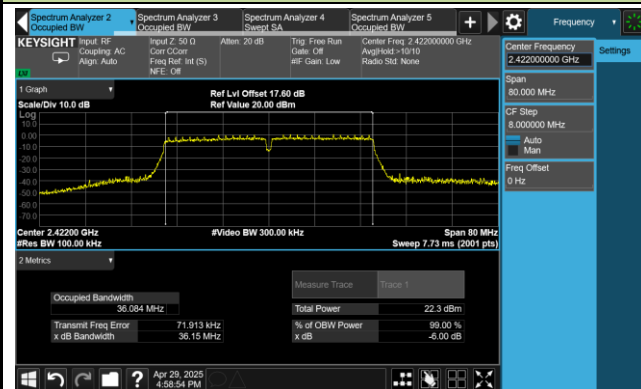


Channel 11 (2462MHz)

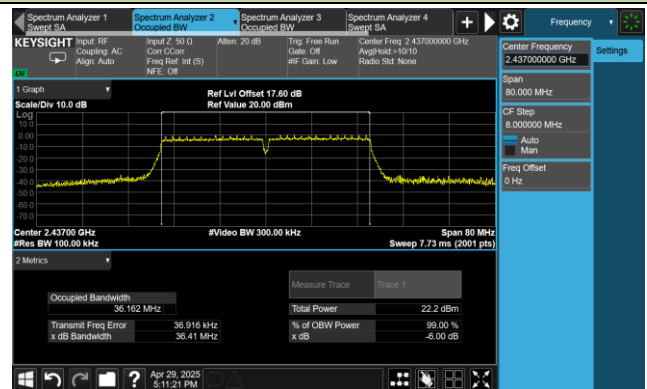


802.11n-HT40 6dB Bandwidth

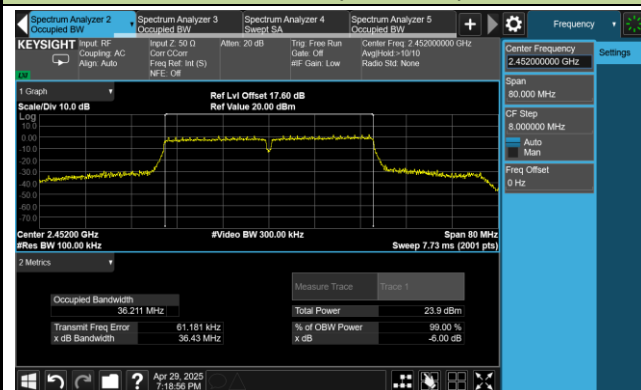
Channel 03 (2422MHz)



Channel 06 (2437MHz)

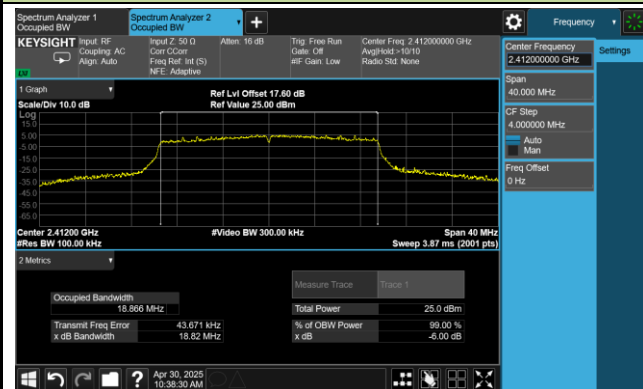


Channel 09 (2452MHz)

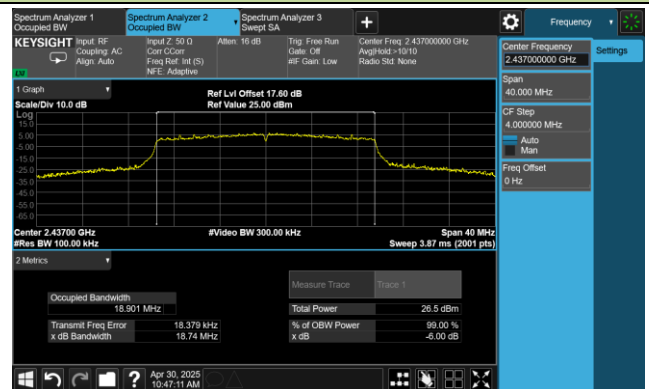


802.11ax-HE20 6dB Bandwidth

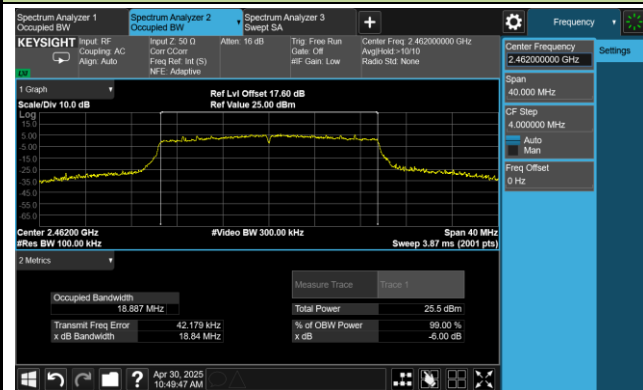
Channel 01 (2412MHz)



Channel 06 (2437MHz)

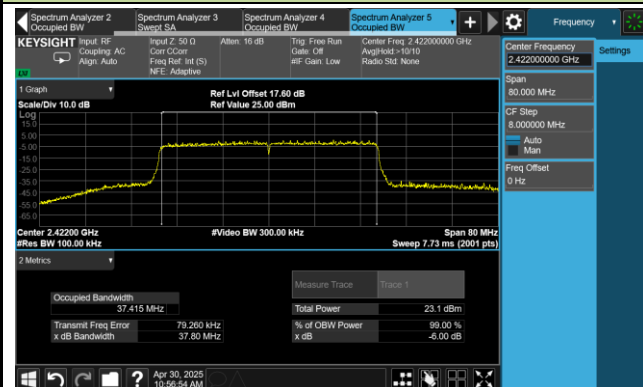


Channel 11 (2462MHz)

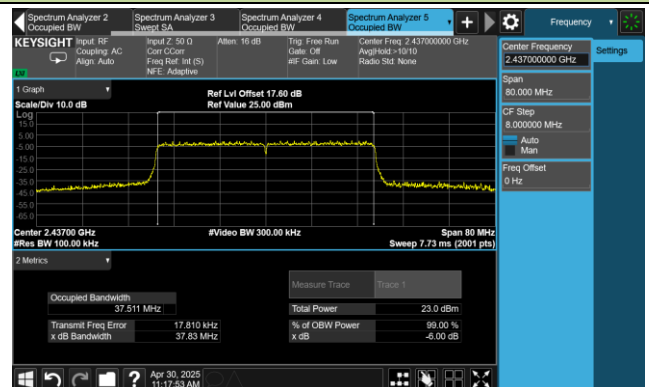


802.11ax-HE40 6dB Bandwidth

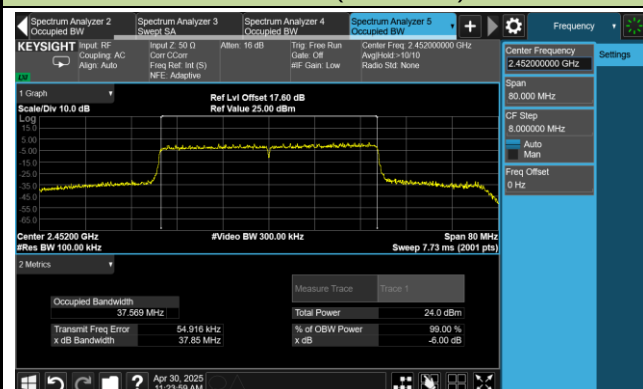
Channel 03 (2422MHz)



Channel 06 (2437MHz)

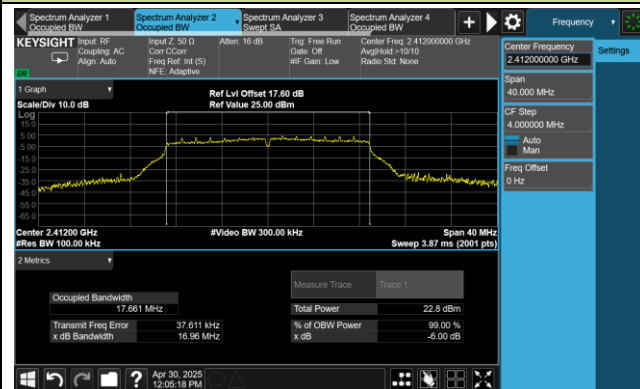


Channel 09 (2452MHz)

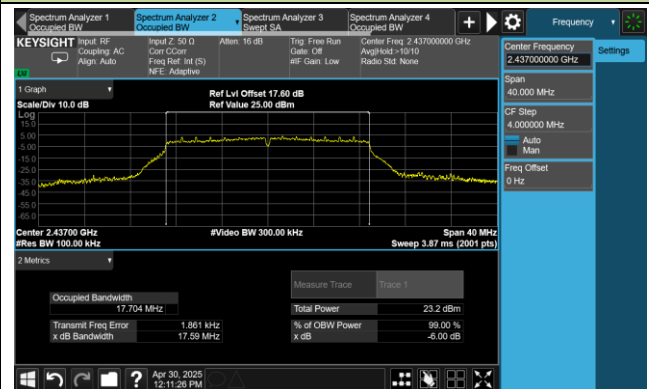


VHT20 6dB Bandwidth

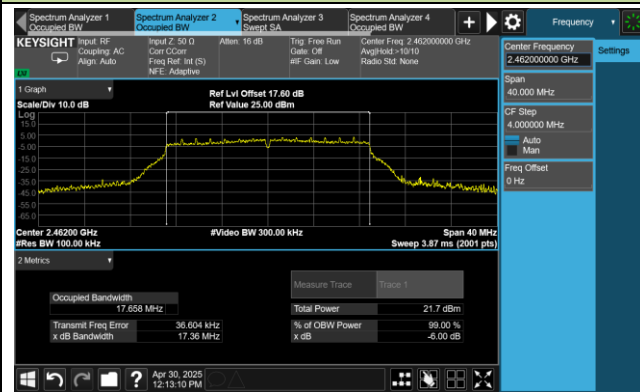
Channel 01 (2412MHz)



Channel 06 (2437MHz)

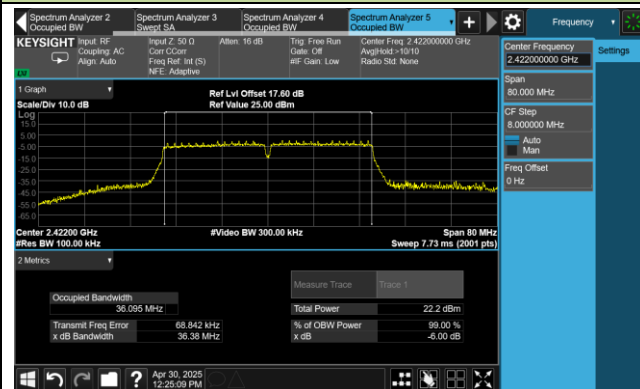


Channel 11 (2462MHz)

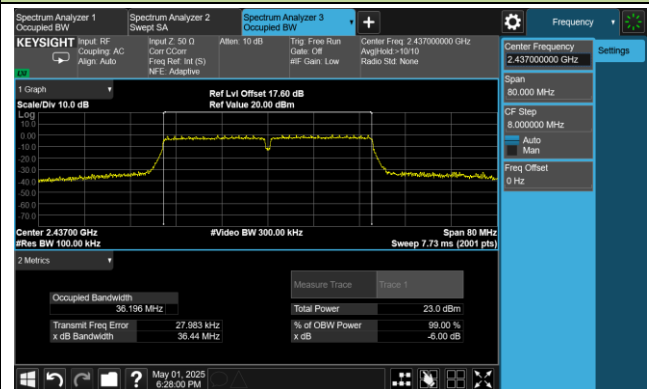


VHT40 6dB Bandwidth

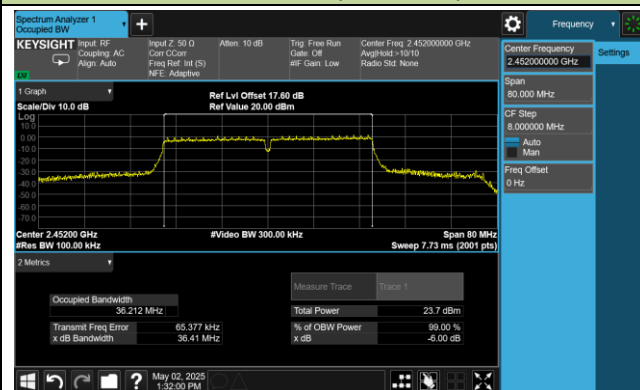
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



A.3 Output Power Test Result

Full RU

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-05-22		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Limit (dBm)
				Ant 3	Ant 2		
11b	1Mbps	01	2412	18.29	17.14	20.76	≤ 30.00
11b	1Mbps	06	2437	18.63	18.23	21.44	≤ 30.00
11b	1Mbps	11	2462	18.55	18.04	21.31	≤ 30.00
11g	6Mbps	01	2412	16.52	15.47	19.04	≤ 30.00
11g	6Mbps	06	2437	16.36	15.07	18.77	≤ 30.00
11g	6Mbps	11	2462	16.46	16.18	19.33	≤ 30.00
11n-HT20	MCS0	01	2412	16.42	15.49	18.99	≤ 30.00
11n-HT20	MCS0	06	2437	16.75	14.93	18.94	≤ 30.00
11n-HT20	MCS0	11	2462	16.08	15.12	18.64	≤ 30.00
11n-HT40	MCS0	03	2422	13.99	13.36	16.70	≤ 30.00
11n-HT40	MCS0	06	2437	15.13	13.79	17.52	≤ 30.00
11n-HT40	MCS0	09	2452	13.66	12.62	16.18	≤ 30.00
11ax-HE20	MCS0	01	2412	15.83	15.03	18.46	≤ 30.00
11ax-HE20	MCS0	06	2437	15.82	14.49	18.22	≤ 30.00
11ax-HE20	MCS0	11	2462	15.42	14.88	18.17	≤ 30.00
11ax-HE40	MCS0	03	2422	14.32	14.27	17.31	≤ 30.00
11ax-HE40	MCS0	06	2437	15.39	14.05	17.78	≤ 30.00
11ax-HE40	MCS0	09	2452	13.91	12.86	16.43	≤ 30.00
VHT20	MCS0	01	2412	15.31	14.56	17.96	≤ 30.00
VHT20	MCS0	06	2437	15.30	14.02	17.72	≤ 30.00
VHT20	MCS0	11	2462	15.25	15.41	18.34	≤ 30.00
VHT40	MCS0	03	2422	13.93	13.95	16.95	≤ 30.00
VHT40	MCS0	06	2437	14.80	13.73	17.31	≤ 30.00
VHT40	MCS0	09	2452	13.62	12.62	16.16	≤ 30.00

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

Partial RU

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-05-22		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	RU size/ index	Average Power (dBm)		Total Average Power (dBm)	Limit (dBm)
					Ant 3	Ant 2		
11ax-HE20	MCS0	01	2412	RU26/0	8.85	7.67	11.31	≤ 30.00
				RU52/37	12.23	11.16	14.74	≤ 30.00
				RU106/53	12.20	11.23	14.75	≤ 30.00
				RU242/61	15.03	13.92	17.52	≤ 30.00
		06	2437	RU26/4	8.23	8.03	11.14	≤ 30.00
				RU52/38	10.47	9.67	13.10	≤ 30.00
				RU106/53	13.09	12.31	15.73	≤ 30.00
				RU242/61	15.60	14.26	17.99	≤ 30.00
		11	2462	RU26/8	8.18	7.37	10.80	≤ 30.00
				RU52/40	10.02	10.21	13.13	≤ 30.00
				RU106/54	12.23	12.52	15.39	≤ 30.00
				RU242/61	14.73	14.26	17.51	≤ 30.00
ax-HE40	MCS0	03	2422	RU484/65	12.20	11.42	14.84	≤ 30.00
		06	2437	RU484/65	12.91	12.13	15.55	≤ 30.00
		09	2452	RU484/65	11.92	10.76	14.39	≤ 30.00

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

A.4 Power Spectral Density Test Result

Full RU

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-05-02 ~ 2025-05-07		

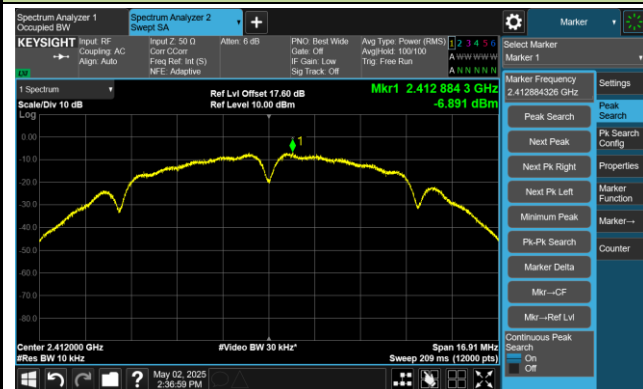
Test Mode	Data Rate	Channel No.	Freq. (MHz)	PSD (dBm/ 10kHz)		Duty Cycle (%)	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)
				Ant 3	Ant 2			
11b	1Mbps	01	2412	-6.891	-8.946	98.28	-4.79	≤ 6.19
11b	1Mbps	06	2437	-5.596	-7.696	98.28	-3.51	≤ 6.19
11b	1Mbps	11	2462	-6.781	-7.835	98.28	-4.27	≤ 6.19
11g	6Mbps	01	2412	-10.485	-11.849	90.53	-7.67	≤ 6.19
11g	6Mbps	06	2437	-9.611	-11.183	90.53	-6.88	≤ 6.19
11g	6Mbps	11	2462	-10.716	-10.804	90.53	-7.32	≤ 6.19
11n-HT20	MCS0	01	2412	-12.276	-12.691	82.09	-8.61	≤ 6.19
11n-HT20	MCS0	06	2437	-10.767	-11.846	82.09	-7.41	≤ 6.19
11n-HT20	MCS0	11	2462	-13.391	-12.977	82.09	-9.31	≤ 6.19
11n-HT40	MCS0	03	2422	-17.258	-17.452	77.86	-13.26	≤ 6.19
11n-HT40	MCS0	06	2437	-16.123	-15.691	77.86	-11.80	≤ 6.19
11n-HT40	MCS0	09	2452	-17.964	-18.042	77.86	-13.91	≤ 6.19
11ax-HE20	MCS0	01	2412	-11.965	-13.425	78.30	-8.56	≤ 6.19
11ax-HE20	MCS0	06	2437	-12.614	-12.028	78.30	-8.24	≤ 6.19
11ax-HE20	MCS0	11	2462	-13.680	-13.172	78.30	-9.35	≤ 6.19
11ax-HE40	MCS0	03	2422	-17.322	-17.708	75.34	-13.27	≤ 6.19
11ax-HE40	MCS0	06	2437	-16.034	-17.585	75.34	-12.50	≤ 6.19
11ax-HE40	MCS0	09	2452	-17.210	-17.239	75.34	-12.98	≤ 6.19
VHT20	MCS0	01	2412	-13.268	-13.583	82.07	-9.55	≤ 6.19
VHT20	MCS0	06	2437	-12.747	-13.742	82.07	-9.35	≤ 6.19
VHT20	MCS0	11	2462	-13.269	-12.477	82.07	-8.99	≤ 6.19
VHT40	MCS0	03	2422	-16.281	-16.839	78.05	-12.46	≤ 6.19
VHT40	MCS0	06	2437	-16.496	-15.525	78.05	-11.90	≤ 6.19
VHT40	MCS0	09	2452	-17.552	-16.447	78.05	-12.88	≤ 6.19

Note: When EUT duty cycle ≥ 98%, Total PSD (dBm / 10kHz) = $10 \cdot \log \{10^{(\text{Ant 3 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\}$ (dBm / 10kHz).

When EUT duty cycle < 98%, Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 3 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\}$ (dBm / 10kHz) + $10 \cdot \log (1/\text{Duty cycle})$.

802.11b - AVGPDS - Ant 3

Channel 01 (2412MHz)



Channel 06 (2437MHz)

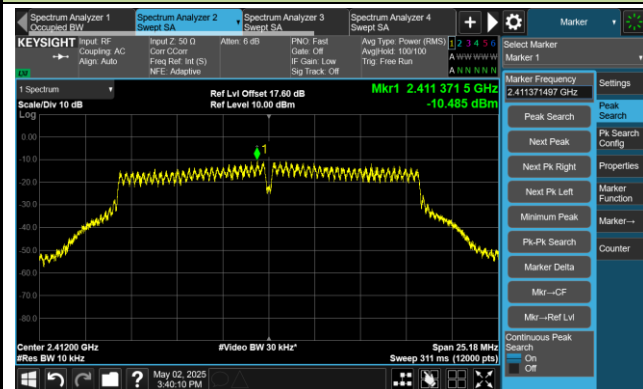


Channel 11 (2462MHz)

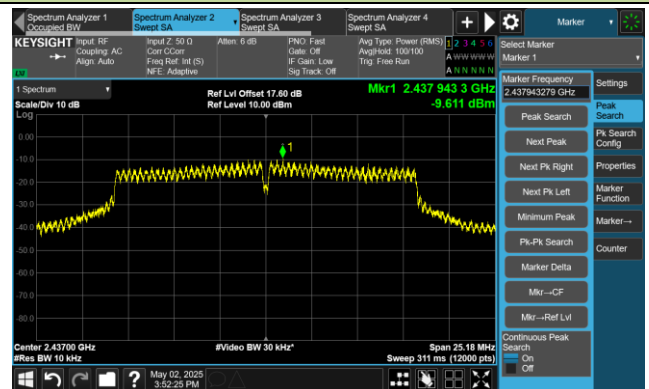


802.11g - AVGPDS - Ant 3

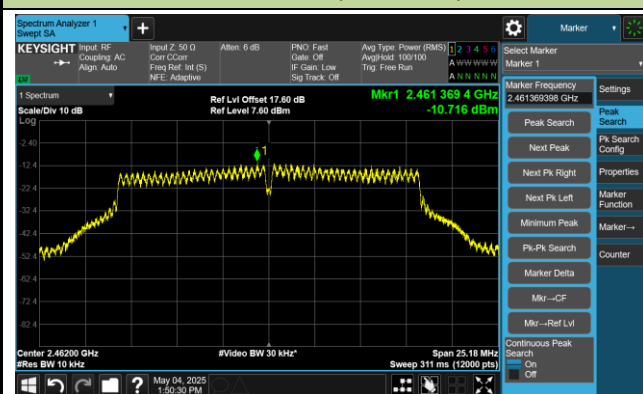
Channel 01 (2412MHz)



Channel 06 (2437MHz)

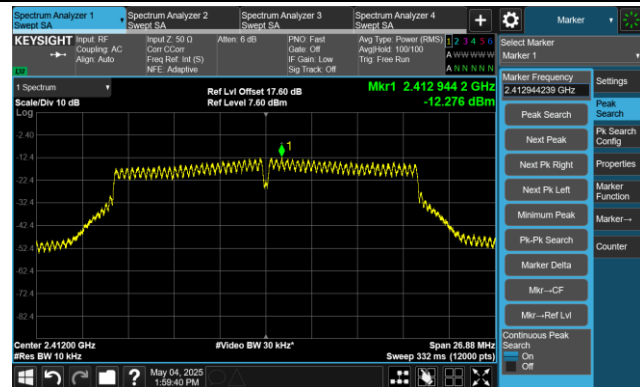


Channel 11 (2462MHz)

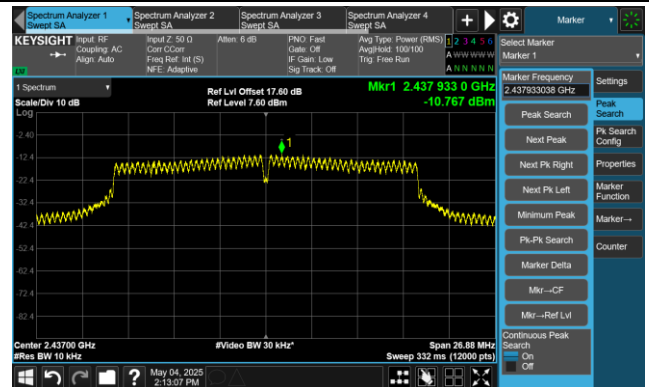


802.11n-HT20 - AVGPDS - Ant 3

Channel 01 (2412MHz)



Channel 06 (2437MHz)

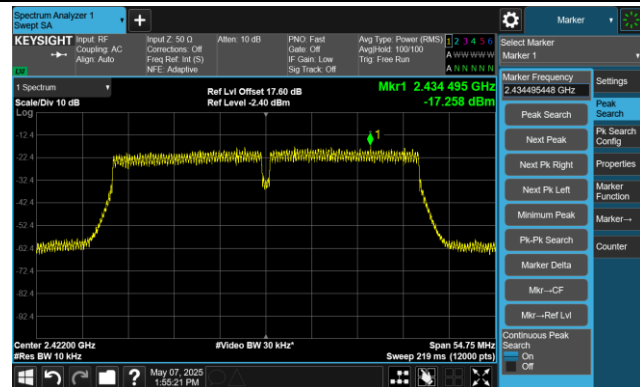


Channel 11 (2462MHz)

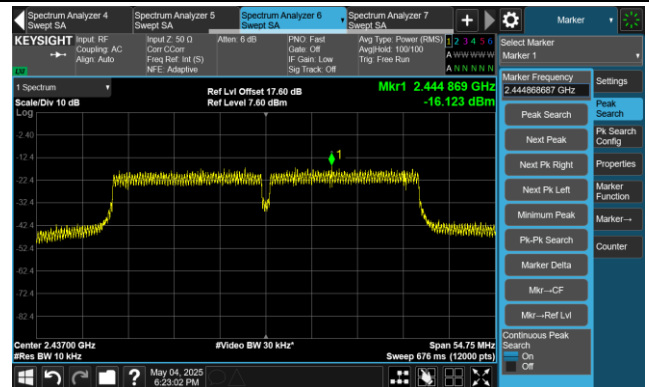


802.11n-HT40 - AVGPDS - Ant 3

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

