

# FCC TEST REPORT

**FCC ID: 2BKCP-YB-V300W2-5**

**Report No.** : SSP25060140-2E

**Applicant** : Shenzhen Yuben Technology CO, LTD

**Product Name** : Smart Pet Feeder (with Camera)

**Model Name** : YB-V300W2-5

**Test Standard** : FCC Part 15.247

**Date of Issue** : 2025-07-09



**Shenzhen CCUT Quality Technology Co., Ltd.**

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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

**Test Report Basic Information**

<b>Applicant</b> .....:	Shenzhen Yuben Technology CO, LTD E1, Floor 7, Building 13, Lehui Science and Technology Innovation Center, Address of Applicant.....: 489 Jihua Road, Bantian Street, Longgang District, Shenzhen, China
<b>Manufacturer</b> .....:	Shenzhen Yuben Technology CO, LTD E1, Floor 7, Building 13, Lehui Science and Technology Innovation Center, Address of Manufacturer.....: 489 Jihua Road, Bantian Street, Longgang District, Shenzhen, China
<b>Product Name</b> .....:	Smart Pet Feeder (with Camera)
<b>Brand Name</b> .....:	-
<b>Main Model</b> .....:	YB-V300W2-5
<b>Series Models</b> .....:	See section 1.1 (Page 5)
<b>Test Standard</b> .....:	FCC Part 15 Subpart C KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.4-2014 ANSI C63.10-2013
<b>Date of Test</b> .....	2025-06-13 to 2025-07-09
<b>Test Result</b> .....:	PASS
<b>Tested By</b> .....	<u>Coke Huang</u> (Coke Huang)
<b>Reviewed By</b> .....:	<u>Lorzix Luo</u> (Lorzix Luo)
<b>Authorized Signatory</b> .....:	<u>Lahm Peng</u> (Lahm Peng)
<b>Note :</b> This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.	



## CONTENTS

<b>1. General Information.....</b>	<b>5</b>
1.1 Product Information .....	5
1.2 Test Setup Information.....	6
1.3 Compliance Standards.....	7
1.4 Test Facilities.....	7
1.5 List of Measurement Instruments .....	8
1.6 Measurement Uncertainty .....	9
<b>2. Summary of Test Results .....</b>	<b>10</b>
<b>3. Antenna Requirement.....</b>	<b>11</b>
3.1 Standard and Limit.....	11
3.2 Test Result.....	11
<b>4. Conducted Emissions .....</b>	<b>12</b>
4.1 Standard and Limit.....	12
4.2 Test Procedure.....	12
4.3 Test Data and Results .....	13
<b>5. Radiated Emissions .....</b>	<b>16</b>
5.1 Standard and Limit.....	16
5.2 Test Procedure.....	16
5.3 Test Data and Results .....	18
<b>6. Band-edge Emissions(Radiated).....</b>	<b>22</b>
6.1 Standard and Limit.....	22
6.2 Test Procedure.....	22
6.3 Test Data and Results .....	22
<b>7. Maximum Conducted Output Power .....</b>	<b>24</b>
7.1 Standard and Limit.....	24
7.2 Test Procedure.....	24
7.3 Test Data and Results .....	24
<b>8. Occupied Bandwidth .....</b>	<b>33</b>
8.1 Standard and Limit.....	33
8.2 Test Procedure.....	33
8.3 Test Data and Results .....	33
<b>9. Maximum Power Spectral Density .....</b>	<b>41</b>
9.1 Standard and Limit.....	41
9.2 Test Procedure.....	41
9.3 Test Data and Results .....	41
<b>10. Band-edge Emission(Conducted).....</b>	<b>46</b>
10.1 Standard and Limit.....	46
10.2 Test Procedure.....	46
10.3 Test Data and Results .....	46
11.1 Standard and Limit.....	52
11.2 Test Procedure.....	52
11.3 Test Data and Results .....	52

Revision History

Revision	Issue Date	Description	Revised By
V1.0	2025-07-09	Initial Release	Lahm Peng

## 1. General Information

### 1.1 Product Information

Product Name:	Smart Pet Feeder (with Camera)
Trade Name:	-
Main Model:	YB-V300W2-5
Series Models:	WB-2511, YB-W25-A1, YB-W25-A2, YB-W25-B1, YB-23-T1, T2322-APTZ
Rated Voltage:	DC 5V by adapter or DC1.5V by LR14*3 battery
Power Adapter:	Input: 100-240V~50/60Hz 0.35A, Output: 5V=2A
Battery:	DC 1.5V LR14
Test Sample No:	SSP25060140-1
Hardware Version:	T2322-APTZ-L-V1.0
Software Version:	V1.0
Note 1: The test data is gathered from a production sample, provided by the manufacturer.	
Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.	

Wireless Specification	
Wireless Standard:	802.11b/g/n/ax
Operating Frequency:	2412MHz ~ 2462MHz for 802.11b/g/n/ax (HT/HE20) 2422MHz ~ 2452MHz for 802.11n/ax (HT/HE40)
RF Output Power:	16.02dBm
Number of Channel:	11/7
Channel Separation:	5MHz
Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Antenna Gain:	3dBi
Type of Antenna:	FPCB Antenna
Type of Device:	<input type="checkbox"/> Portable Device <input checked="" type="checkbox"/> Mobile Device <input type="checkbox"/> Modular Device

## 1.2 Test Setup Information

List of Test Modes			
Test Mode	Description	Remark	
TM1	802.11b	2412MHz/2437MHz/2462MHz	
TM2	802.11g	2412MHz/2437MHz/2462MHz	
TM3	802.11n(H20)	2412MHz/2437MHz/2462MHz	
TM4	802.11n(H40)	2422MHz/2437MHz/2452MHz	
TM5	802.11ax(H20)	2412MHz/2437MHz/2462MHz	
TM6	802.11ax(H40)	2422MHz/2437MHz/2452MHz	
List and Details of Auxiliary Cable			
Description	Length (cm)	Shielded/Unshielded	With/Without Ferrite
-	-	-	-
-	-	-	-
List and Details of Auxiliary Equipment			
Description	Manufacturer	Model	Serial Number
-	-	-	-
-	-	-	-

List of Channels							
No. of Channel	Frequency (MHz)	No. of Channel	Frequency (MHz)	No. of Channel	Frequency (MHz)	No. of Channel	Frequency (MHz)
01	2412	05	2432	09	2452	13	--
02	2417	06	2437	10	2457	14	--
03	2422	07	2442	11	2462	15	--
04	2427	08	2447	12	--	16	--

### 1.3 Compliance Standards

Compliance Standards	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
All measurements contained in this report were conducted with all above standards	
According to standards for test methodology	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
KDB 558074 D01 15.247 Meas Guidance v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES
ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained.	

### 1.4 Test Facilities

Laboratory Name:	<b>Shenzhen CCUT Quality Technology Co., Ltd.</b> 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6983.01
FCC Registration No.:	583813
FCC Designation No.:	CN1373
ISED Registration No.:	CN0164
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.	

## 1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
<b>Conducted Emissions</b>					
AMN	ROHDE&SCHWARZ	ENV216	101097	2024-08-07	2025-08-06
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2024-08-07	2025-08-06
Test Cable	N/A	Cable 5	N/A	2024-08-07	2025-08-06
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A
<b>Radiated Emissions</b>					
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2024-08-07	2025-08-06
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2024-08-07	2025-08-06
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40-N	101692	2024-08-07	2025-08-06
Amplifier	SCHWARZBECK	BBV 9743B	00251	2024-08-07	2025-08-06
Amplifier	HUABO	YXL0518-2.5-45	--	2024-08-07	2025-08-06
Amplifier	COM-MW	DLAN-18G-4G-02	10229104	2024-08-07	2025-08-06
Loop Antenna	DAZE	ZN30900C	21104	2024-08-03	2025-08-02
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2024-08-03	2025-08-02
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2024-08-03	2025-08-02
Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2024-08-03	2025-08-02
Attenuator	QUANJUDA	6dB	220731	2024-08-07	2025-08-06
Test Cable	N/A	Cable 1	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 2	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 3	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 4	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 8	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 9	N/A	2024-08-07	2025-08-06
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A
<b>Conducted RF Testing</b>					
RF Test System	MWRFTTest	MW100-RFCB	220418SQS-37	2024-08-07	2025-08-06
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2024-08-07	2025-08-06
RF Test Software	MWRFTTest	MTS 8310	N/A	N/A	N/A
Laptop	Lenovo	ThinkPad E15 Gen 3	SPPOZ22485	N/A	N/A



## 1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
Radiated Emissions	9kHz ~ 30MHz	±2.88 dB
	30MHz ~ 1GHz	±3.32 dB
	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Conducted Output Power	9kHz ~ 26GHz	±0.50 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %
Conducted Spurious Emission	9kHz ~ 26GHz	±1.32 dB
Power Spectrum Density	9kHz ~ 26GHz	±0.62 dB

## 2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.203	Antenna Requirement	Passed
FCC Part 15.247(i)	RF Exposure(see the RF exposure report)	Passed
FCC Part 15.207	Conducted Emissions	Passed
FCC Part 15.209, 15.247(d)	Radiated Emissions	Passed
FCC Part 15.247(d)	Band-edge Emissions(Radiated)	Passed
FCC Part 15.247(b)(3)	Maximum Conducted Output Power	Passed
FCC Part 15.247(a)(2)	Occupied Bandwidth	Passed
FCC Part 15.247(e)	Maximum Power Spectral Density	Passed
FCC Part 15.247(d)	Band-edge Emissions(Conducted)	Passed
FCC Part 15.247(d)	Conducted RF Spurious Emissions	Passed
Passed: The EUT complies with the essential requirements in the standard Failed: The EUT does not comply with the essential requirements in the standard N/A: Not applicable		

### **3. Antenna Requirement**

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#### **3.1 Standard and Limit**

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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.

#### **3.2 Test Result**

This product has an FPCB antenna, fulfill the requirement of this section.

## 4. Conducted Emissions

### 4.1 Standard and Limit

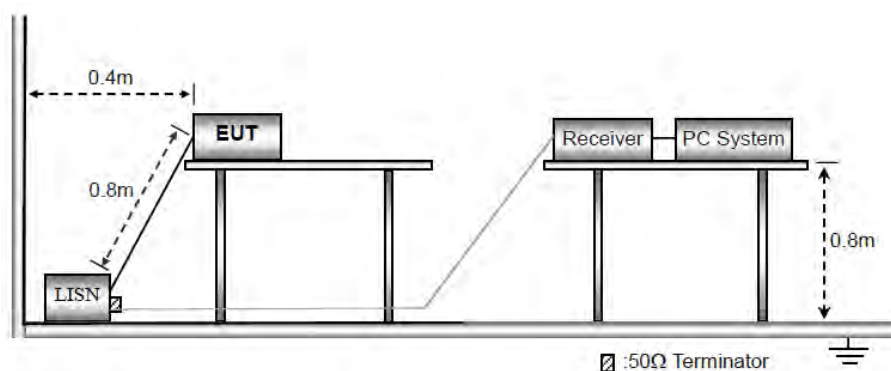
According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission (MHz)	Conducted emissions (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz  
 Note 2: The lower limit applies at the band edges

### 4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following is the setting of the receiver

Attenuation: 10dB

Start Frequency: 0.15MHz

Stop Frequency: 30MHz

IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

f) LISN is at least 80 cm from nearest part of EUT chassis.

g) For the actual test configuration, please refer to the related Item - photographs of the test setup.

### **4.3 Test Data and Results**

All of the 802.11b, 802.11g and 802.11n, 802.11ax modes have been tested, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case 802.11b\_2412MHz as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

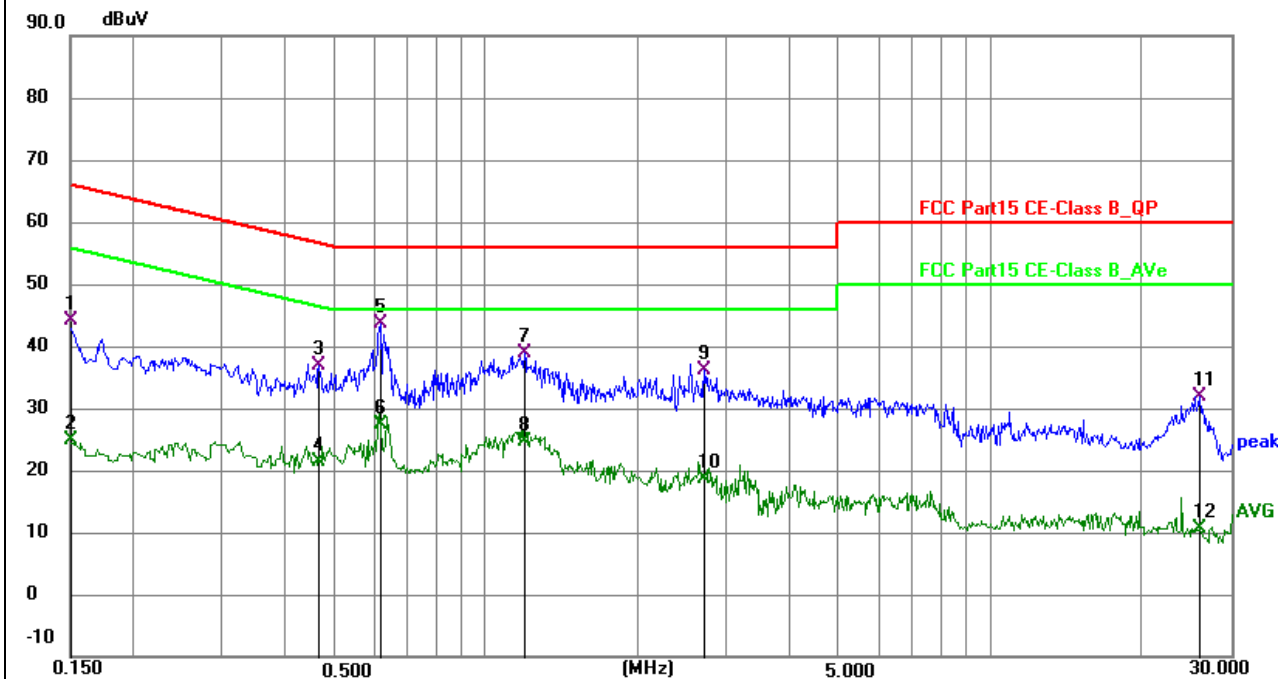
## Test Plots and Data of Conducted Emissions

Tested Mode: TM1

Test Voltage: AC 120V/60Hz

Test Power Line: Neutral

Remark:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	34.79	9.25	44.04	66.00	-21.96	QP	P	
2	0.1500	15.68	9.25	24.93	56.00	-31.07	AVG	P	
3	0.4650	27.57	9.39	36.96	56.60	-19.64	QP	P	
4	0.4650	12.06	9.39	21.45	46.60	-25.15	AVG	P	
5 *	0.6180	34.24	9.37	43.61	56.00	-12.39	QP	P	
6	0.6180	18.06	9.37	27.43	46.00	-18.57	AVG	P	
7	1.1940	29.47	9.43	38.90	56.00	-17.10	QP	P	
8	1.1940	15.21	9.43	24.64	46.00	-21.36	AVG	P	
9	2.7105	26.65	9.48	36.13	56.00	-19.87	QP	P	
10	2.7105	9.07	9.48	18.55	46.00	-27.45	AVG	P	
11	25.8855	21.91	10.06	31.97	60.00	-28.03	QP	P	
12	25.8855	0.54	10.06	10.60	50.00	-39.40	AVG	P	

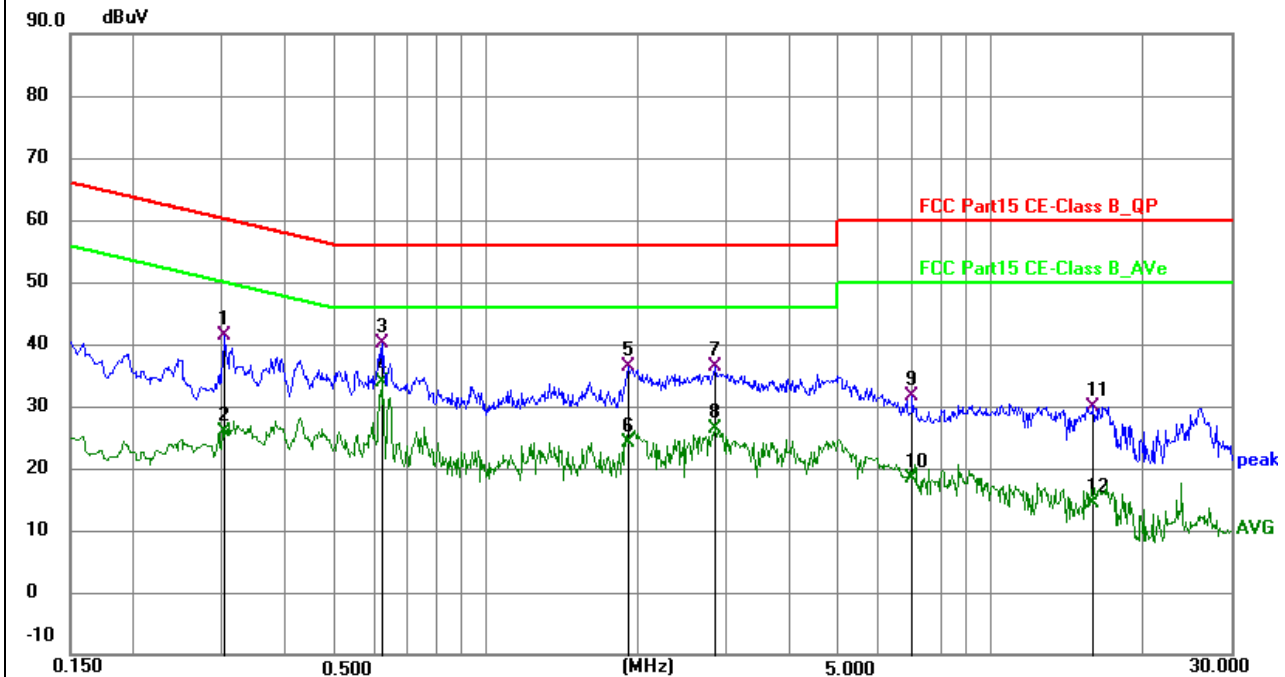
## Test Plots and Data of Conducted Emissions

Tested Mode: TM1

Test Voltage: AC 120V/60Hz

Test Power Line: Live

Remark:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3030	31.75	9.59	41.34	60.16	-18.82	QP	P	
2	0.3030	16.23	9.59	25.82	50.16	-24.34	AVG	P	
3	0.6238	30.66	9.57	40.23	56.00	-15.77	QP	P	
4 *	0.6238	24.24	9.57	33.81	46.00	-12.19	AVG	P	
5	1.9140	26.84	9.65	36.49	56.00	-19.51	QP	P	
6	1.9140	14.55	9.65	24.20	46.00	-21.80	AVG	P	
7	2.8454	26.71	9.69	36.40	56.00	-19.60	QP	P	
8	2.8454	16.57	9.69	26.26	46.00	-19.74	AVG	P	
9	7.0125	21.77	9.76	31.53	60.00	-28.47	QP	P	
10	7.0125	8.72	9.76	18.48	50.00	-31.52	AVG	P	
11	15.9945	20.21	9.79	30.00	60.00	-30.00	QP	P	
12	15.9945	4.63	9.79	14.42	50.00	-35.58	AVG	P	

## 5. Radiated Emissions

### 5.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

Frequency of Emission (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3
Note: The more stringent limit applies at transition frequencies.		

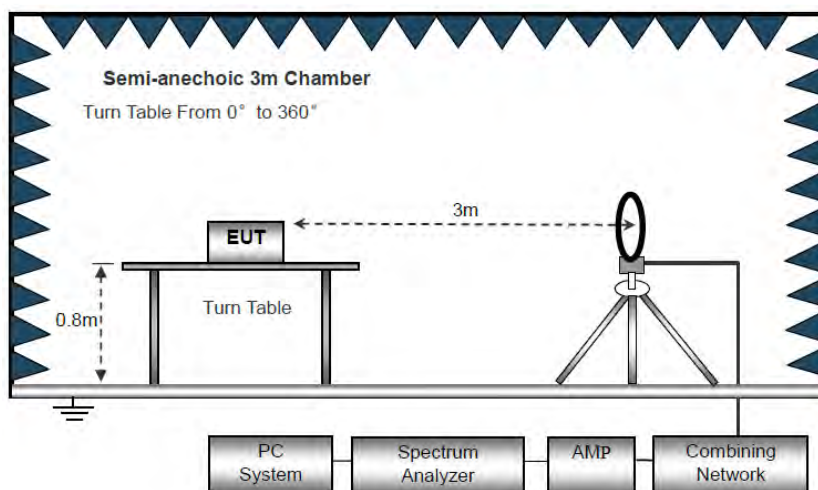
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

*Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.*

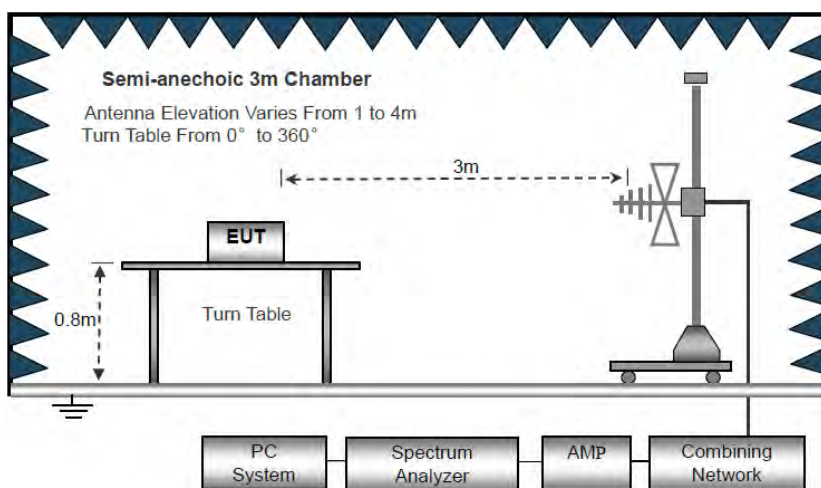
### 5.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.

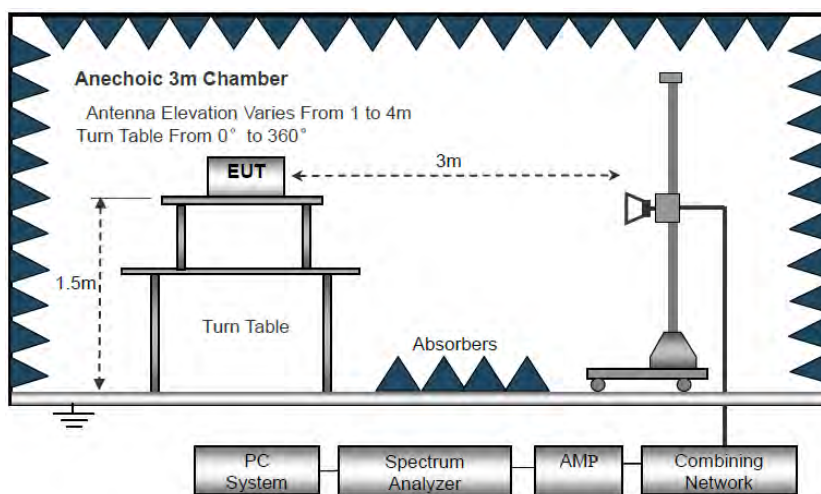




Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

- a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.
- b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- c) Use the following spectrum analyzer settings:  
Span = wide enough to fully capture the emission being measured  
RBW = 1 MHz for  $f \geq 1\text{GHz}$ , 100 kHz for  $f < 1\text{GHz}$ , 10kHz for  $f < 30\text{MHz}$   
VBW  $\geq$  RBW, Sweep = auto  
Detector function = peak  
Trace = max hold
- d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.
- f) For the actual test configuration, please refer to the related item - EUT test photos.

### 5.3 Test Data and Results

All of the 802.11b, 802.11g and 802.11n, 802.11ax modes have been tested, the EUT complied with the FCC Part 15.247 standard limit for a wireless device, and with the worst case 802.11b\_2412MHz as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

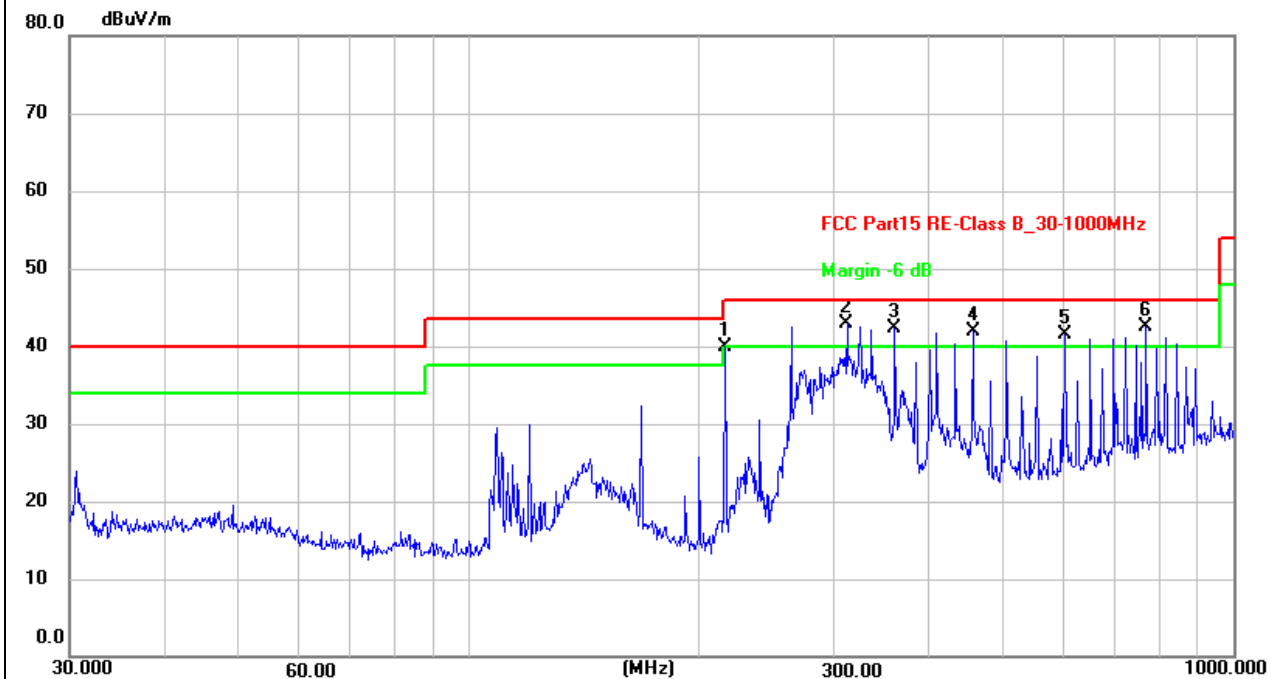
## Radiated Emission Test Data (30MHz to 1GHz)

Tested Mode: TM1

Test Voltage: AC 120V/60Hz

Test Antenna Polarization: Horizontal

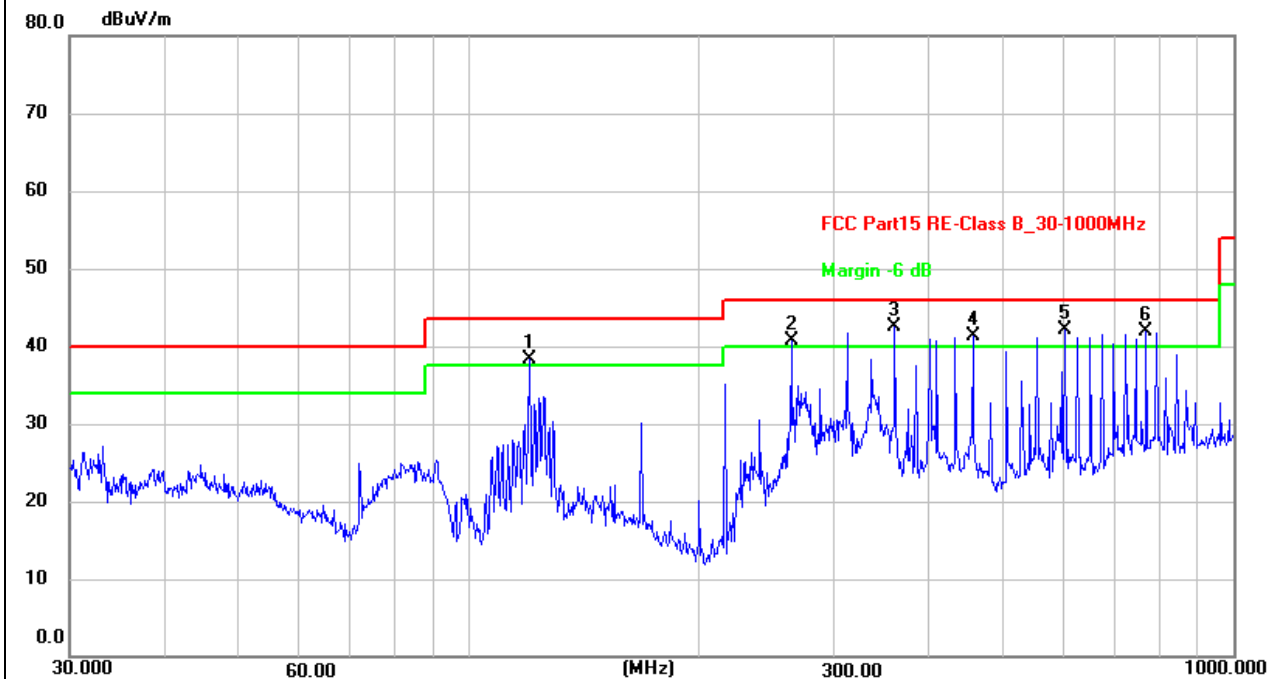
Remark:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	216.0240	51.72	-11.85	39.87	46.00	-6.13	QP	200	287	P	
2 *	312.1792	50.56	-7.57	42.99	46.00	-3.01	QP	100	23	P	
3 !	360.4476	49.30	-6.99	42.31	46.00	-3.69	QP	200	227	P	
4 !	455.9057	46.35	-4.37	41.98	46.00	-4.02	QP	100	70	P	
5 !	601.4265	43.15	-1.59	41.56	46.00	-4.44	QP	100	14	P	
6 !	768.7481	41.40	1.11	42.51	46.00	-3.49	QP	100	277	P	

## Radiated Emission Test Data (30MHz to 1GHz)

Tested Mode:	TM1
Test Voltage:	AC 120V/60Hz
Test Antenna Polarization:	Vertical
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 !	119.8555	48.08	-9.76	38.32	43.50	-5.18	QP	100	348	P	
2 !	263.8190	50.17	-9.49	40.68	46.00	-5.32	QP	100	184	P	
3 *	360.4476	49.46	-6.99	42.47	46.00	-3.53	QP	100	339	P	
4 !	455.9057	45.77	-4.37	41.40	46.00	-4.60	QP	100	204	P	
5 !	601.4265	43.62	-1.59	42.03	46.00	-3.97	QP	100	61	P	
6 !	768.7481	40.77	1.11	41.88	46.00	-4.12	QP	100	90	P	

Radiated Emission Test Data (Above 1GHz)							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
Lowest Channel (802.11b_2412MHz)							
4824	77.5	-14.72	62.78	74	-11.22	H	PK
4824	62.68	-14.72	47.96	54	-6.04	H	AV
7236	62.33	-8.41	53.92	74	-20.08	H	PK
7236	47.81	-8.41	39.4	54	-14.6	H	AV
4824	76.13	-14.72	61.41	74	-12.59	V	PK
4824	58.03	-14.72	43.31	54	-10.69	V	AV
7236	64.84	-8.41	56.43	74	-17.57	V	PK
7236	45.58	-8.41	37.17	54	-16.83	V	AV
Middle Channel (802.11b_2437MHz)							
4874	77	-14.64	62.36	74	-11.64	H	PK
4874	60.24	-14.64	45.6	54	-8.4	H	AV
7311	62.67	-8.28	54.39	74	-19.61	H	PK
7311	45.41	-8.28	37.13	54	-16.87	H	AV
4874	74.27	-14.64	59.63	74	-14.37	V	PK
4874	58.77	-14.64	44.13	54	-9.87	V	AV
7311	65.24	-8.28	56.96	74	-17.04	V	PK
7311	50.74	-8.28	42.46	54	-11.54	V	AV
Highest Channel (802.11b_2462MHz)							
4924	79.65	-14.53	65.12	74	-8.88	H	PK
4924	62.35	-14.53	47.82	54	-6.18	H	AV
7386	65.13	-8.13	57	74	-17	H	PK
7386	50.17	-8.13	42.04	54	-11.96	H	AV
4924	76.75	-14.53	62.22	74	-11.78	V	PK
4924	58.03	-14.53	43.5	54	-10.5	V	AV
7386	65.08	-8.13	56.95	74	-17.05	V	PK
7386	47.87	-8.13	39.74	54	-14.26	V	AV

Note 1: this EUT was tested in 3 orthogonal positions with the X-axis being the worst and the worst case 802.11b position data was reported.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 3: Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded report, 18GHz-26GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

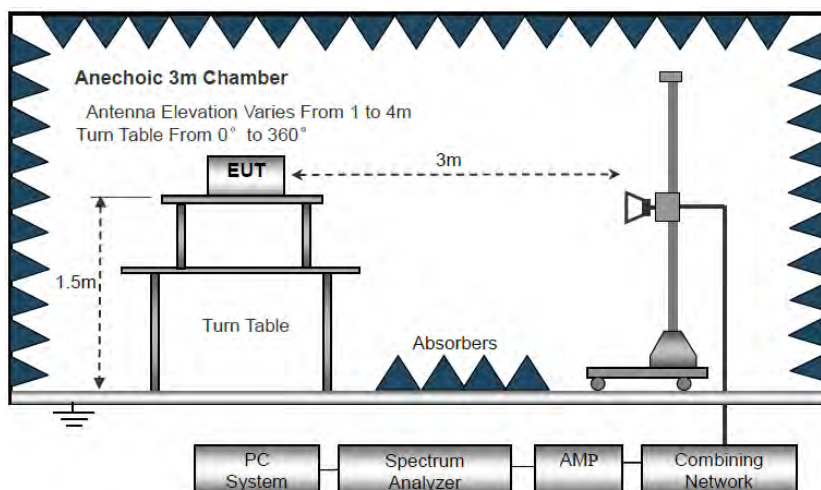
## 6. Band-edge Emissions(Radiated)

### 6.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

### 6.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6 and section 6.10.



Test Setup Block Diagram

As the radiated emissions testing, set the Lowest and Highest Transmitting Channel, observed the outside band of 2310MHz to 2400MHz and 2483.5MHz to 2500MHz, than mark the higher-level emission for comparing with the FCC rules.

### 6.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.247 standard limit, and with the worst case 802.11n as below:

Test Mode	Frequency	Limit	Result
	MHz	dBuV/dBc	
Lowest	2310.00	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
Highest	2483.50	<54 dBuV	Pass
	2500.00	<54 dBuV	Pass

Radiated Emission Test Data (Band edge emissions)							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
Lowest Channel (802.11n_2412MHz)							
2310	67.03	-21.34	45.69	74	-28.31	H	PK
2310	50.67	-21.34	29.33	54	-24.67	H	AV
2390	68.24	-20.96	47.28	74	-26.72	H	PK
2390	49.03	-20.96	28.07	54	-25.93	H	AV
2400	68.5	-20.91	47.59	74	-26.41	H	PK
2400	52.37	-20.91	31.46	54	-22.54	H	AV
2310	65.87	-21.34	44.53	74	-29.47	V	PK
2310	52.47	-21.34	31.13	54	-22.87	V	AV
2390	69.57	-20.96	48.61	74	-25.39	V	PK
2390	50.37	-20.96	29.41	54	-24.59	V	AV
2400	71.44	-20.91	50.53	74	-23.47	V	PK
2400	54.76	-20.91	33.85	54	-20.15	V	AV
Highest Channel (802.11n_2462MHz)							
2483.50	72.45	-20.51	51.94	74	-22.06	H	PK
2483.50	52.07	-20.51	31.56	54	-22.44	H	AV
2500	69.18	-20.43	48.75	74	-25.25	H	PK
2500	52.16	-20.43	31.73	54	-22.27	H	AV
2483.50	70.41	-20.51	49.9	74	-24.1	V	PK
2483.50	53.2	-20.51	32.69	54	-21.31	V	AV
2500	64.73	-20.43	44.3	74	-29.7	V	PK
2500	51.72	-20.43	31.29	54	-22.71	V	AV

Remark: Level = Reading + Factor, Margin = Level - Limit

## 7. Maximum Conducted Output Power

### 7.1 Standard and Limit

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the *maximum conducted output power* is the highest total transmit power occurring in any mode.

### 7.2 Test Procedure

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- 1) A measurement instrument with an integrated channel bandwidth function may be used to automate the test process.
- 2) Set center of frequency = operating frequency.
- 3) Connect the EUT to the RF input of the spectrum analyzer via a low loss RF cable
- 4) Set the RBW = 1MHz, VBW = 3MHz, Detector = RMS, Sweep = Auto.
- 5) Set the SPAN to 40MHz/80MHz for 20MHz/40MHz emission bandwidth mode.
- 6) Measure the highest amplitude appearing on spectral display and mark the value.
- 7) Repeat the above procedures until all frequency measured was complete.



Test Setup Block Diagram

### 7.3 Test Data and Results

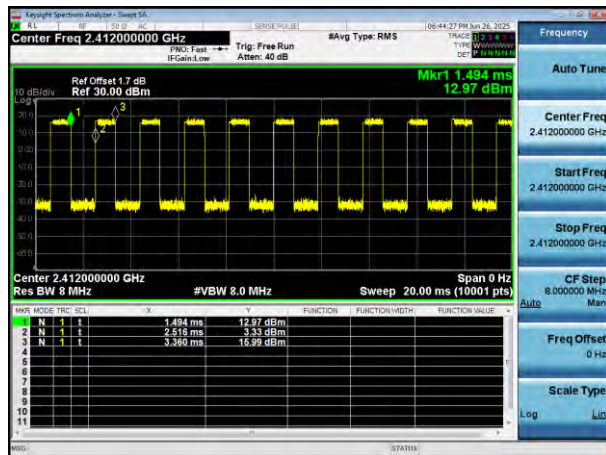


## Duty Cycle

Test Mode	Test Channel MHz	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
802.11b	2412	45.23	3.45	1.18
	2437	45.28	3.44	1.18
	2462	45.23	3.45	1.18
802.11g	2412	14.59	8.36	5.68
	2437	14.62	8.35	5.68
	2462	14.59	8.36	5.68
802.11n(HT20)	2412	34.52	4.62	1.84
	2437	34.56	4.61	1.84
	2462	34.56	4.61	1.84
802.11n(HT40)	2422	21.43	6.69	3.55
	2437	21.37	6.7	3.57
	2452	21.37	6.7	3.57
802.11ax(HE20)	2412	31.07	5.08	2.15
	2437	31.14	5.07	2.16
	2462	31.06	5.08	2.16
802.11ax(HE40)	2422	17.86	7.48	4.46
	2437	17.89	7.47	4.46
	2452	17.83	7.49	4.46

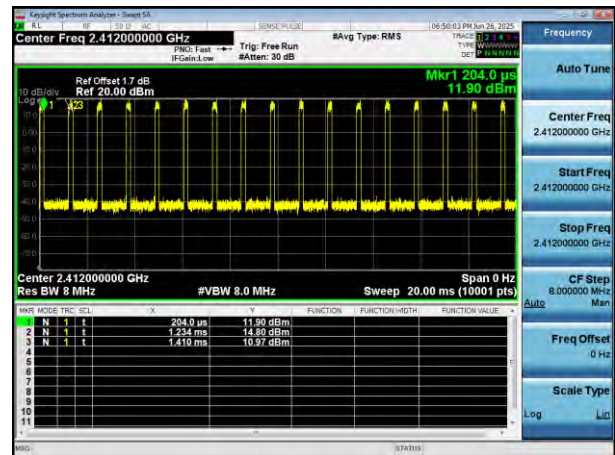
802.11b

2412MHz

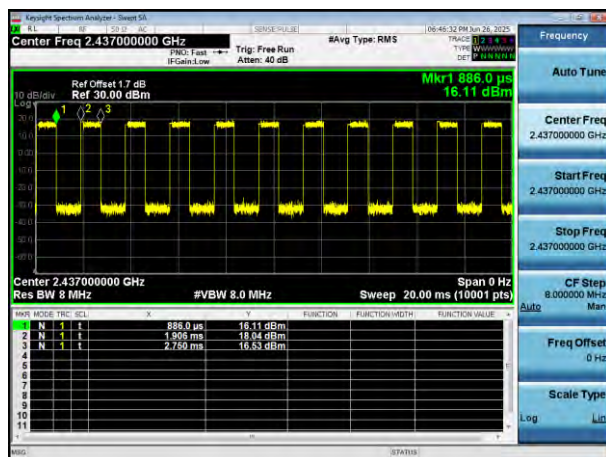


802.11g

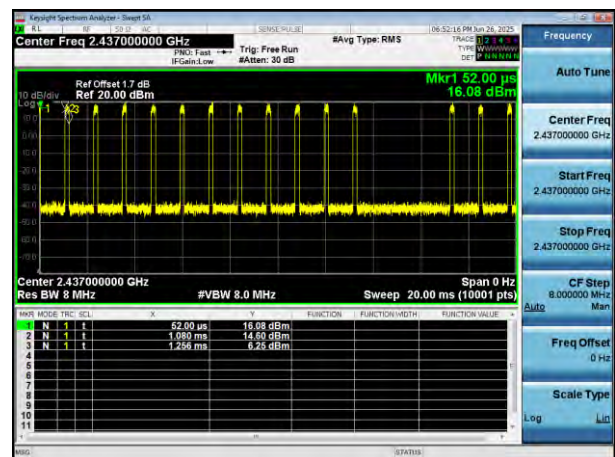
2412MHz



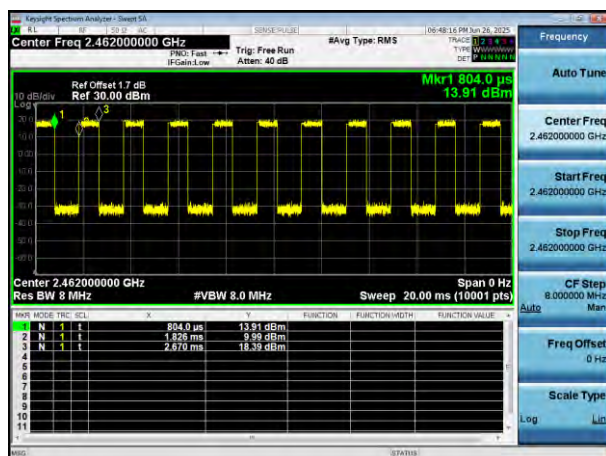
2437MHz



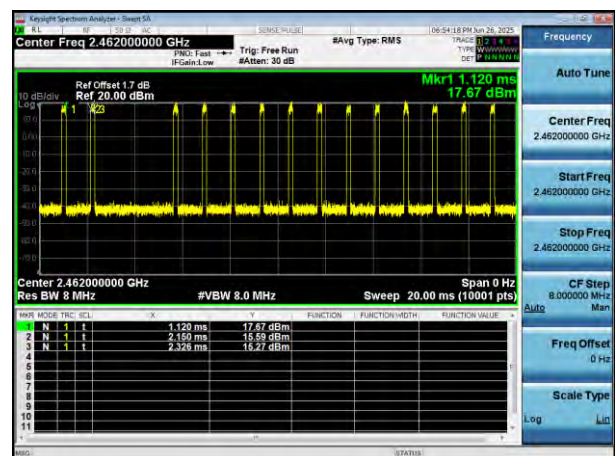
2437MHz



2462MHz

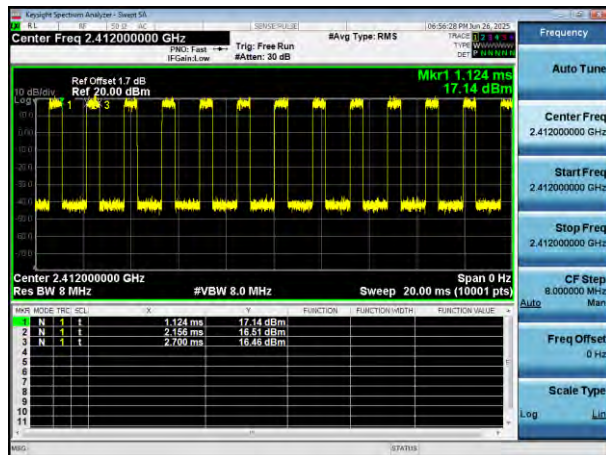


2462MHz



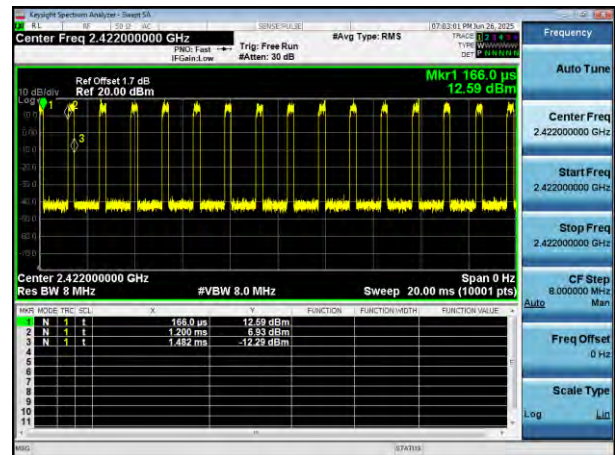
802.11n(HT20)

2412MHz

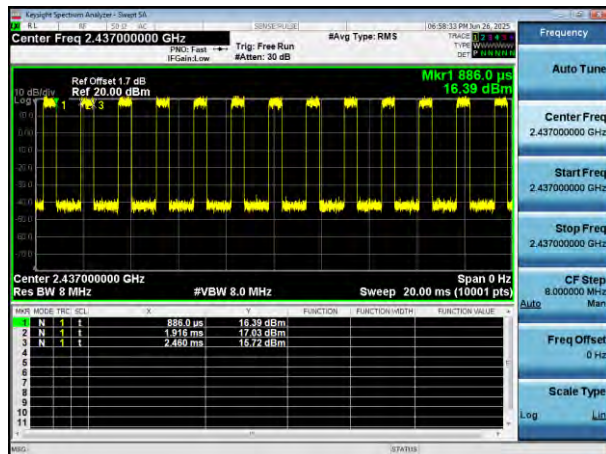


802.11n(HT40)

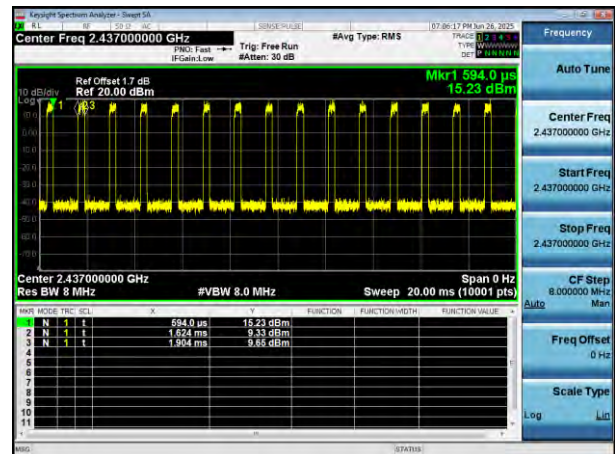
2422MHz



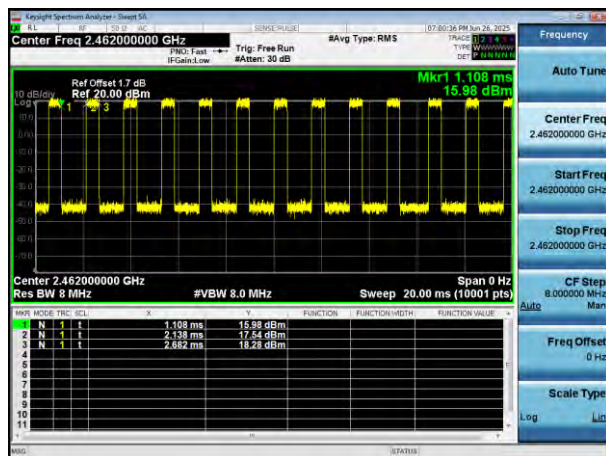
2437MHz



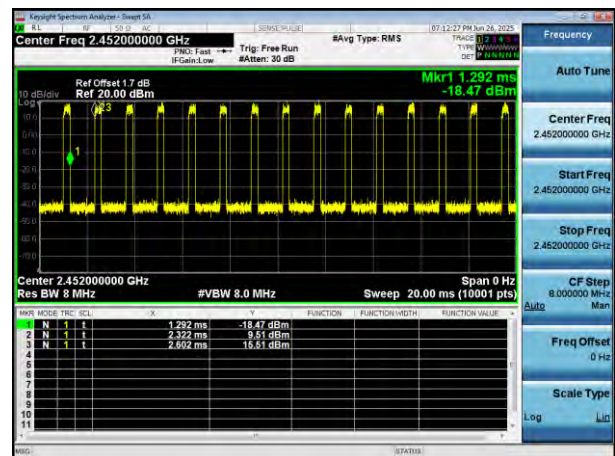
2437MHz



2462MHz



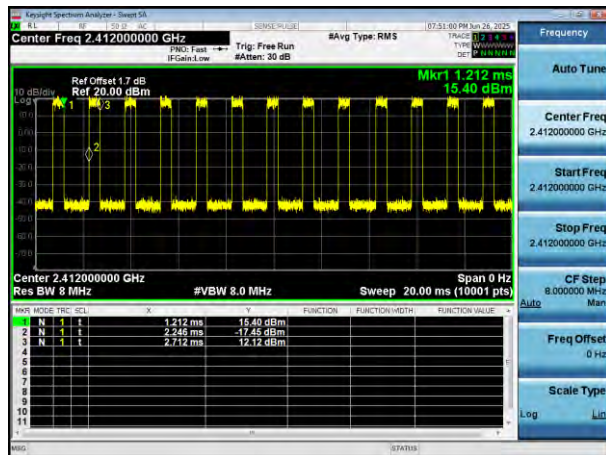
2452MHz





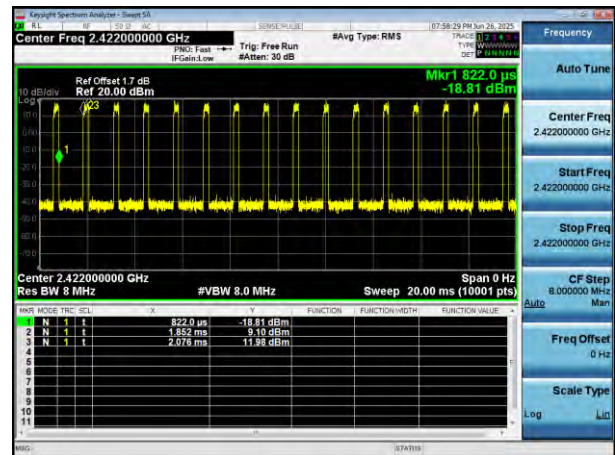
## 802.11ax(HE20)

2412MHz

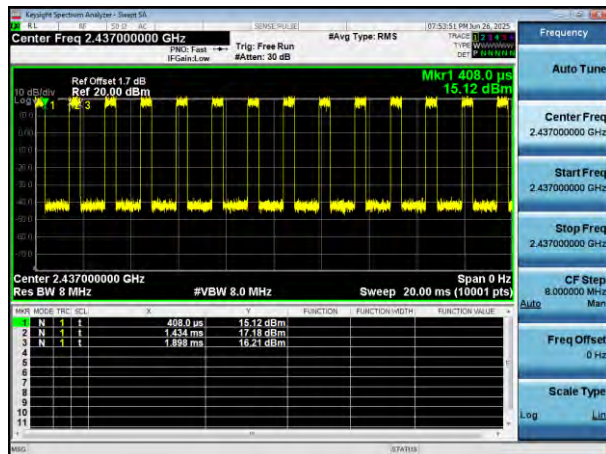


## 802.11ax(HE40)

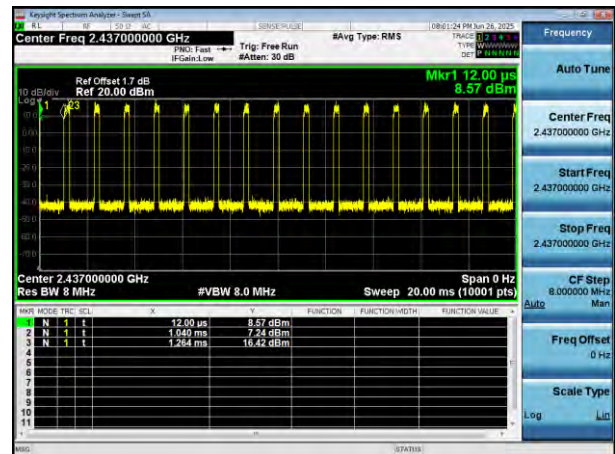
2422MHz



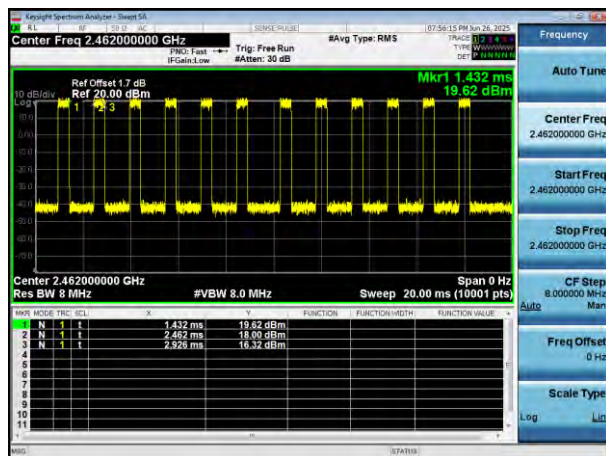
2437MHz



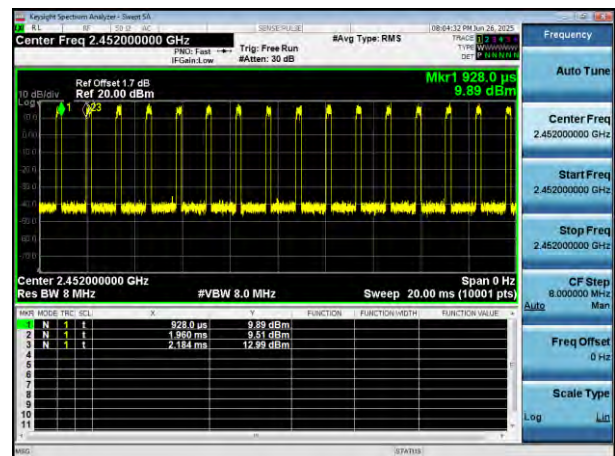
2437MHz



2462MHz



2452MHz



Test Mode	Test Channel (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Test Result
802.11b	2412	9.64	3.45	13.09	30	Pass
	2437	9.58	3.44	13.02	30	Pass
	2462	10.68	3.45	14.13	30	Pass
802.11g	2412	3.4	8.36	11.76	30	Pass
	2437	3.46	8.35	11.81	30	Pass
	2462	5.24	8.36	13.6	30	Pass
802.11n(HT20)	2412	8.19	4.62	12.81	30	Pass
	2437	10.54	4.61	15.15	30	Pass
	2462	11.18	4.61	15.79	30	Pass
802.11n(HT40)	2422	7.87	6.69	14.56	30	Pass
	2437	8.56	6.7	15.26	30	Pass
	2452	8.49	6.7	15.19	30	Pass
802.11ax(HE20)	2412	9.62	5.08	14.7	30	Pass
	2437	9.94	5.07	15.01	30	Pass
	2462	10.94	5.08	16.02	30	Pass
802.11ax(HE40)	2422	8.18	7.48	15.66	30	Pass
	2437	7.15	7.47	14.62	30	Pass
	2452	7.17	7.49	14.66	30	Pass

Note: Total Power = Conducted Power + Duty Factor

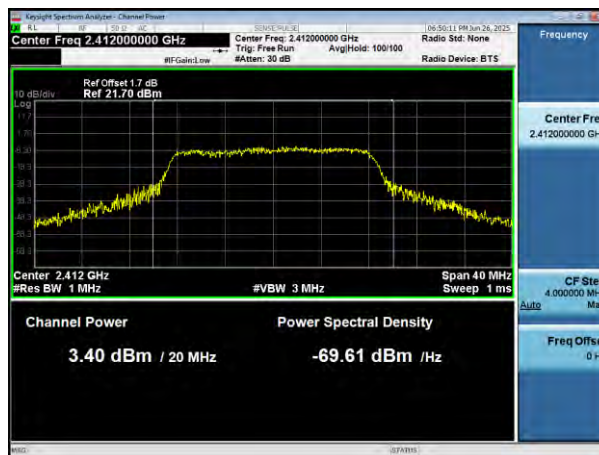
802.11b

2412MHz



802.11g

2412MHz



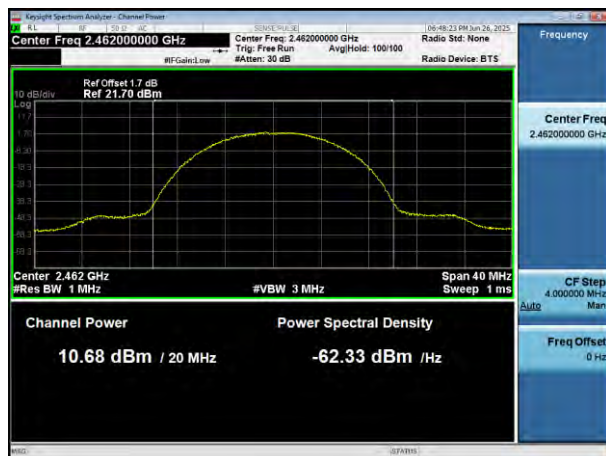
2437MHz



2437MHz



2462MHz



2462MHz





## 802.11n(HT20)

2412MHz

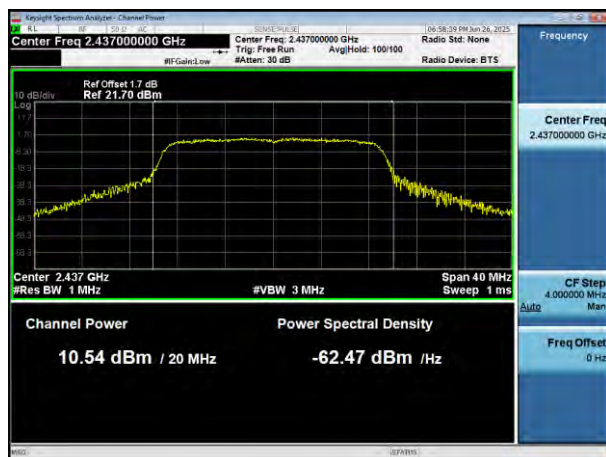


## 802.11n(HT40)

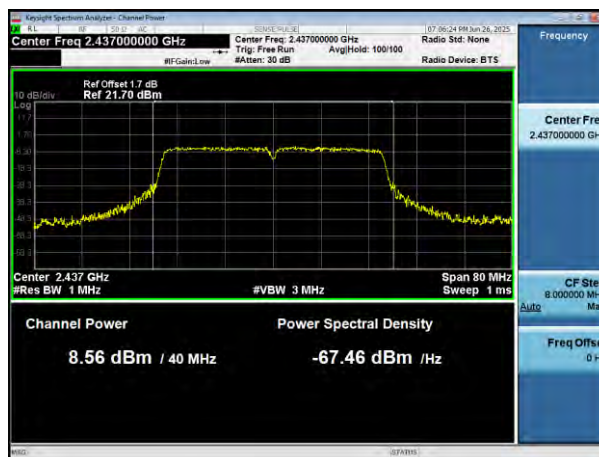
2422MHz



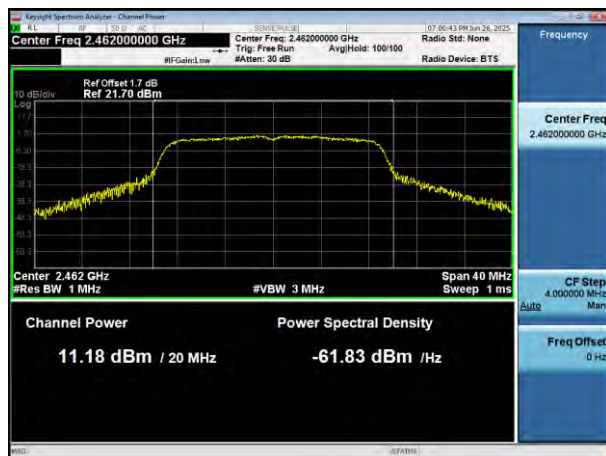
2437MHz



2437MHz



2462MHz



2452MHz



## 802.11ax(HE20)

2412MHz

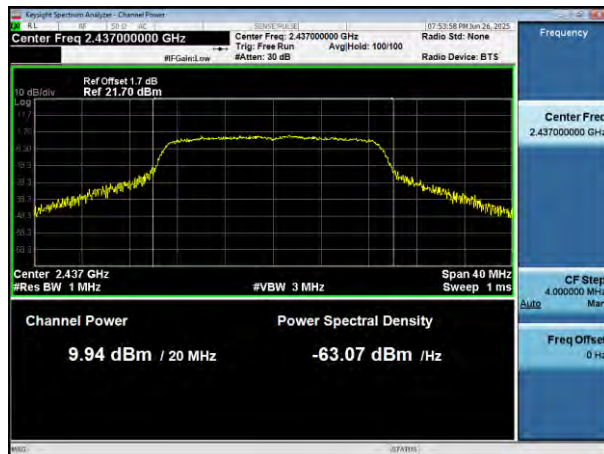


## 802.11ax(HE40)

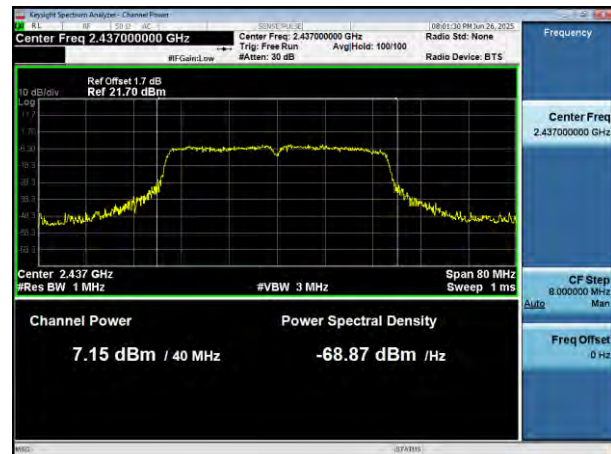
2422MHz



2437MHz



2437MHz



2462MHz



2452MHz





## 8. Occupied Bandwidth

### 8.1 Standard and Limit

According to 15.247(a)(2), Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 8.2 Test Procedure

According to the ANSI 63.10-2013, section 6.9, the emission bandwidth test method as follows.

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) 6dB: Set RBW = 100kHz, VBW  $\geq [3 \times \text{RBW}]$ , Sweep = Auto.  
99%: Set RBW = 1%~5% of 99% bandwidth, VBW  $\geq [3 \times \text{RBW}]$ , Sweep = Auto.
- 4) Set a reference level on the measuring instrument equal to the highest peak value.
- 5) Measure the frequency difference of two frequencies that were attenuated 6dB from the reference level.  
Record the frequency difference as the emission bandwidth.
- 6) Repeat the above procedures until all frequencies measured were complete.

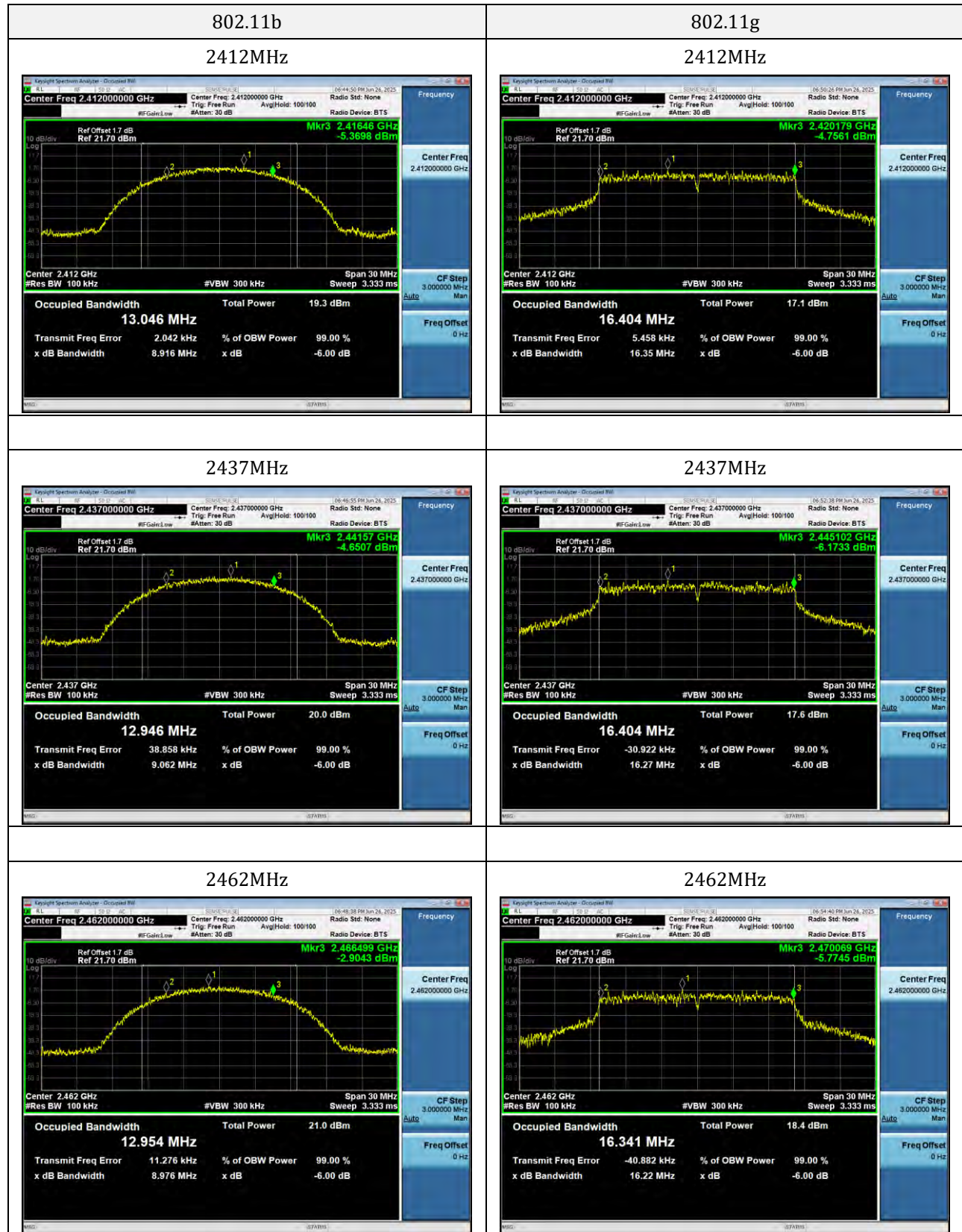


Test Setup Block Diagram

### 8.3 Test Data and Results

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB BW Limit (MHz)	Test Result
802.11b	2412	8.916	12.896	0.5	Pass
	2437	9.062	12.977	0.5	Pass
	2462	8.976	12.998	0.5	Pass
802.11g	2412	16.35	16.44	0.5	Pass
	2437	16.27	16.429	0.5	Pass
	2462	16.22	16.394	0.5	Pass
802.11n(HT20)	2412	17.52	17.706	0.5	Pass
	2437	17.60	17.703	0.5	Pass
	2462	17.51	17.71	0.5	Pass
802.11n(HT40)	2422	34.39	36.122	0.5	Pass
	2437	36.30	36.238	0.5	Pass
	2452	34.96	36.265	0.5	Pass
802.11ax(HE20)	2412	17.54	17.692	0.5	Pass
	2437	17.58	17.73	0.5	Pass
	2462	17.61	17.699	0.5	Pass
802.11ax(HE40)	2422	35.70	36.185	0.5	Pass
	2437	35.71	36.265	0.5	Pass
	2452	35.27	36.193	0.5	Pass

6dB Bandwidth:



## 802.11n(HT20)

2412MHz



## 802.11n(HT40)

2422MHz



2437MHz



2437MHz



2462MHz



2452MHz





## 802.11ax(HE20)

2412MHz



## 802.11ax(HE40)

2422MHz



2437MHz



2437MHz



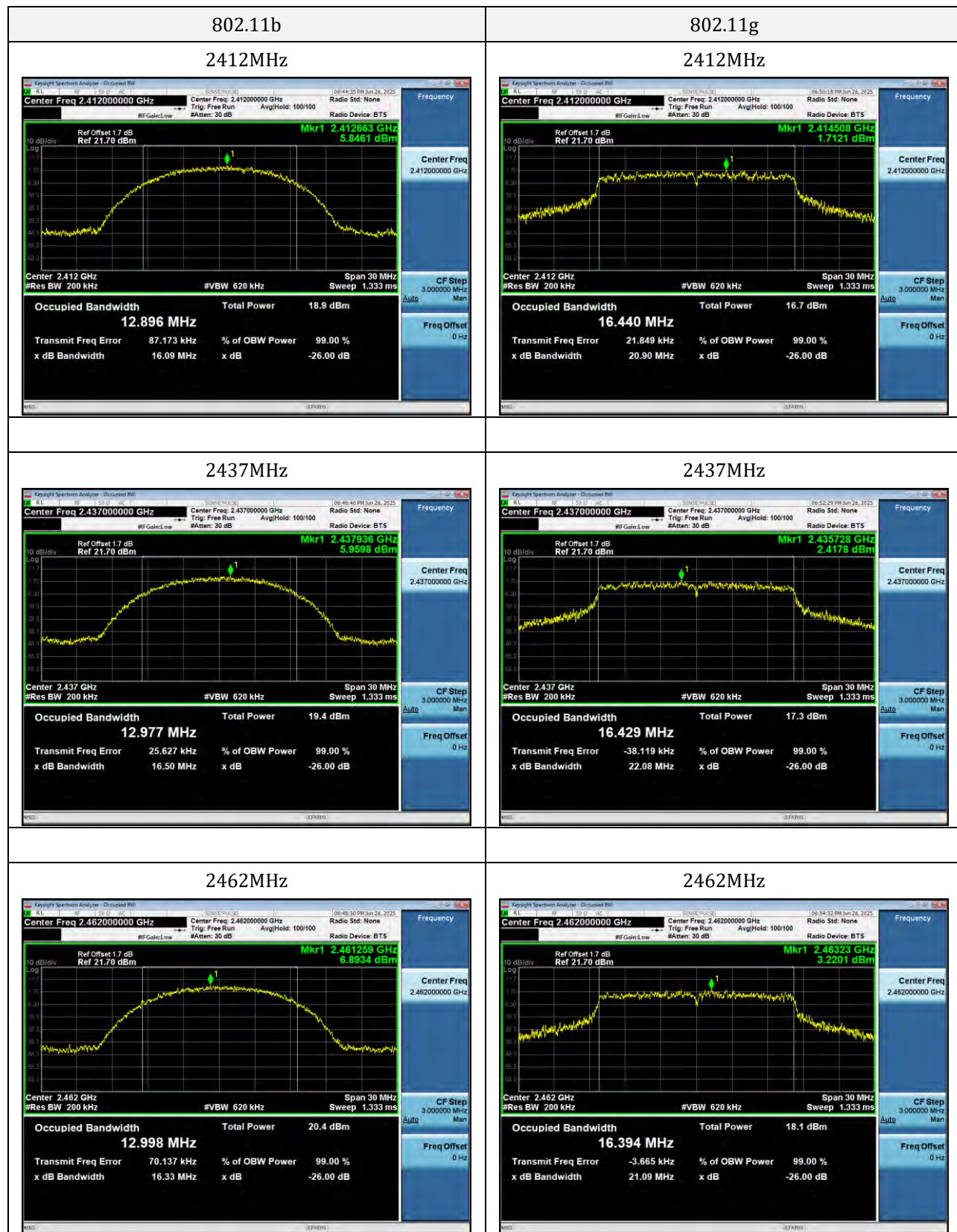
2462MHz



2452MHz



99% Bandwidth:





## 802.11n(HT20)

2412MHz



## 802.11n(HT40)

2422MHz



2437MHz



2437MHz



2462MHz



2452MHz



## 802.11ax(HE20)

2412MHz



## 802.11ax(HE40)

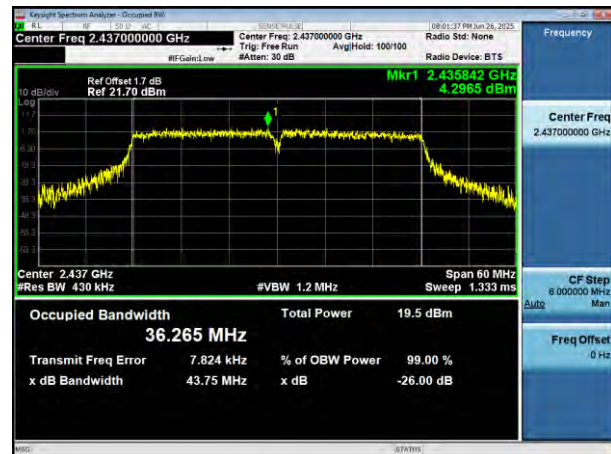
2422MHz



2437MHz



2437MHz



2462MHz



2452MHz





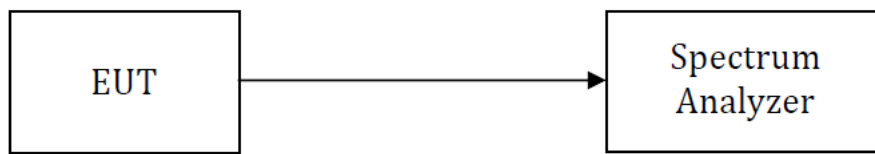
## 9. Maximum Power Spectral Density

### 9.1 Standard and Limit

According to FCC 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### 9.2 Test Procedure

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 3kHz, VBW = 10kHz, Sweep = Auto, Detector = RMS.
- 4) Measure the highest amplitude appearing on spectral display and mark the value.
- 5) Repeat above procedures until all frequencies measured were complete.



Test Setup Block Diagram

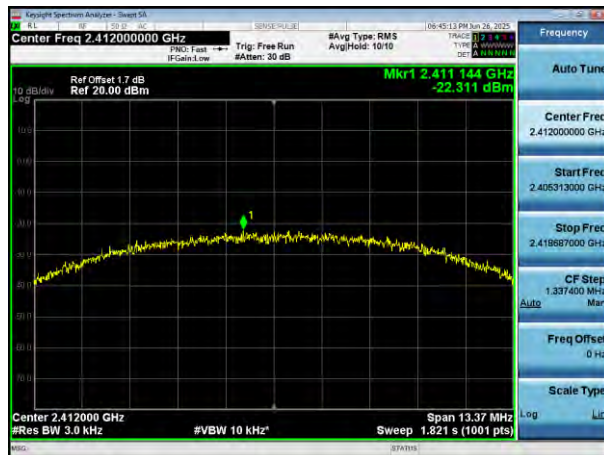
### 9.3 Test Data and Results

Test Mode	Test Channel (MHz)	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Test Result
802.11b	2412	-22.31	3.45	-18.86	8	Pass
	2437	-21.84	3.44	-18.4	8	Pass
	2462	-20.8	3.45	-17.35	8	Pass
802.11g	2412	-29.1	8.36	-20.74	8	Pass
	2437	-28.41	8.35	-20.06	8	Pass
	2462	-27.34	8.36	-18.98	8	Pass
802.11n(HT20)	2412	-24.32	4.62	-19.7	8	Pass
	2437	-23.4	4.61	-18.79	8	Pass
	2462	-22.45	4.61	-17.84	8	Pass
802.11n(HT40)	2422	-27.73	6.69	-21.04	8	Pass
	2437	-27.82	6.7	-21.12	8	Pass
	2452	-27.32	6.7	-20.62	8	Pass
802.11ax(HE20)	2412	-24.39	5.08	-19.31	8	Pass
	2437	-23.59	5.07	-18.52	8	Pass
	2462	-22.49	5.08	-17.41	8	Pass
802.11ax(HE40)	2422	-29.72	7.48	-22.24	8	Pass
	2437	-28.15	7.47	-20.68	8	Pass
	2452	-29.01	7.49	-21.52	8	Pass

Note: Total PSD = Conducted PSD + Duty Factor

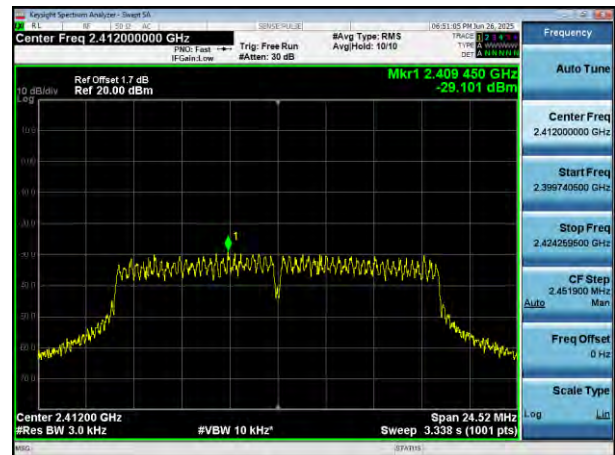
802.11b

2412MHz

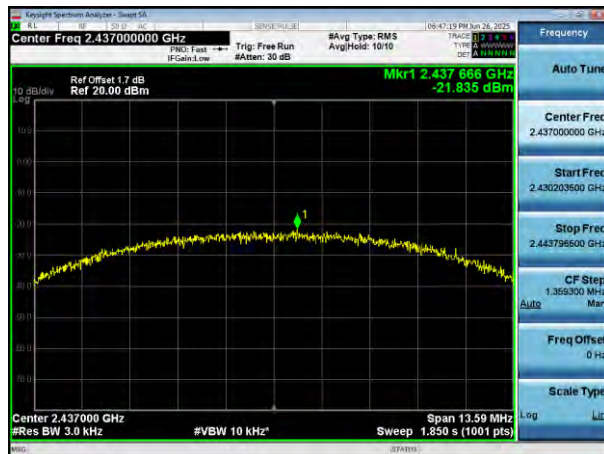


802.11g

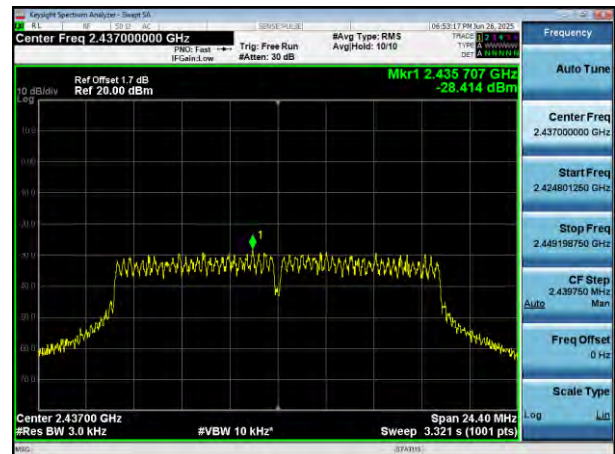
2412MHz



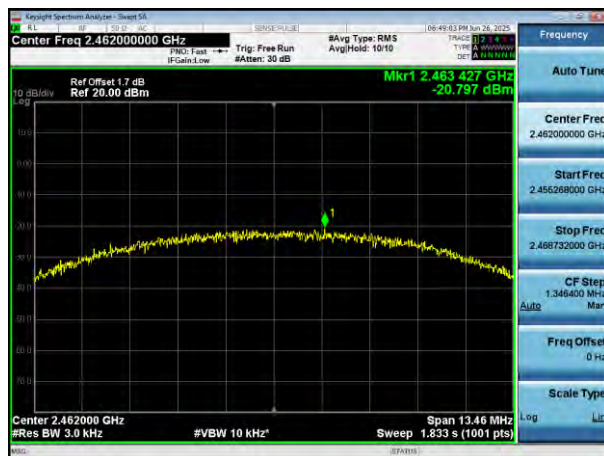
2437MHz



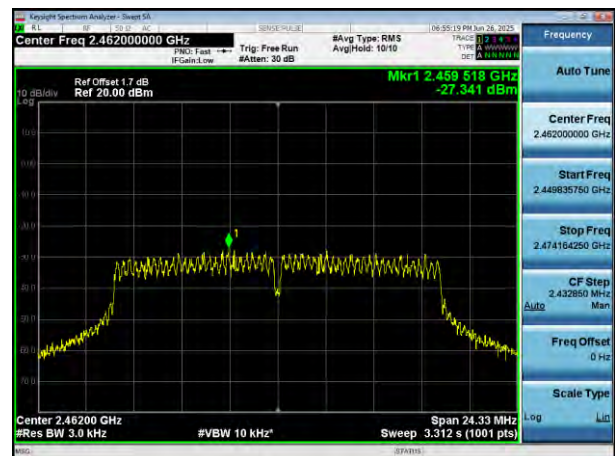
2437MHz



2462MHz

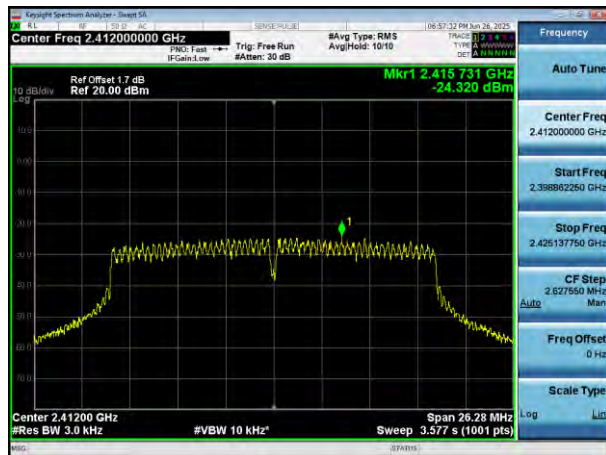


2462MHz



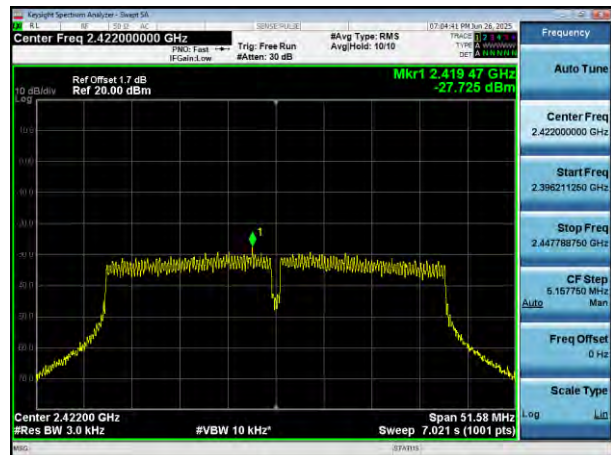
802.11n(HT20)

2412MHz

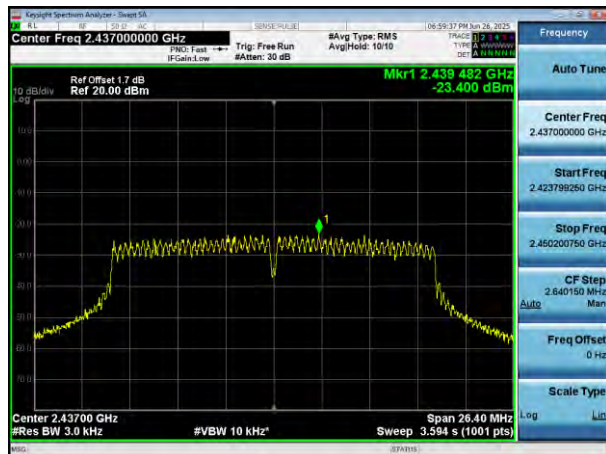


802.11n(HT40)

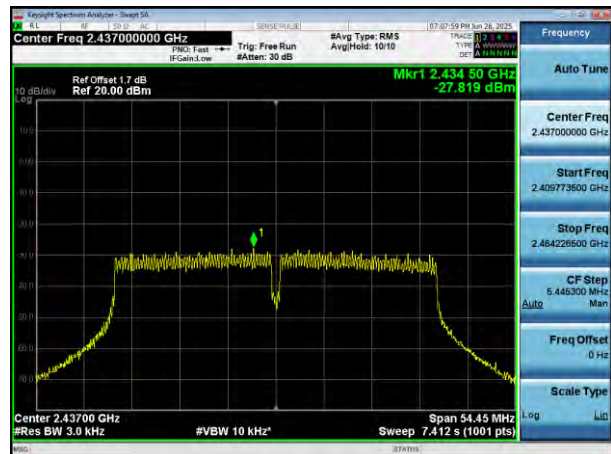
2422MHz



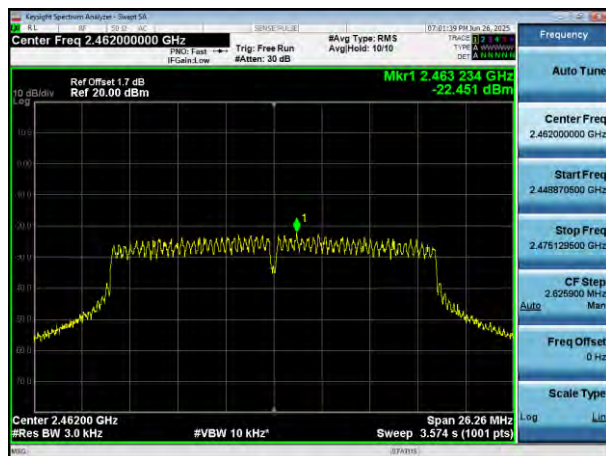
2437MHz



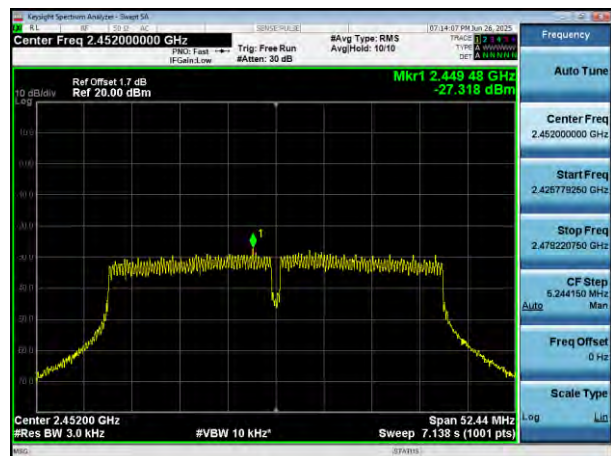
2437MHz



2462MHz



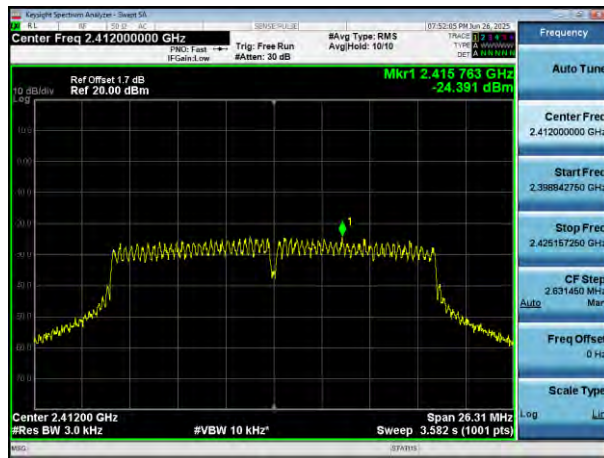
2452MHz





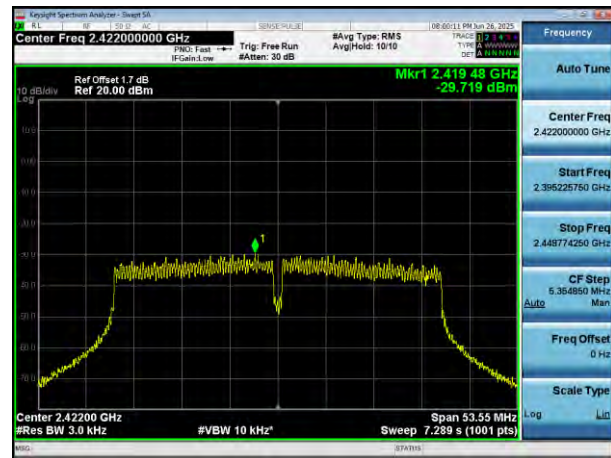
## 802.11ax(HE20)

2412MHz

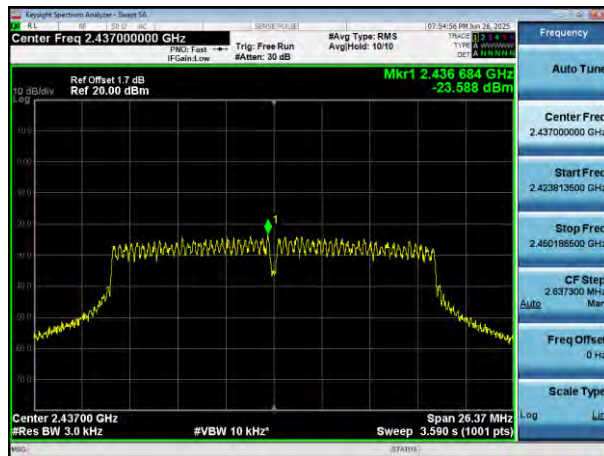


## 802.11ax(HE40)

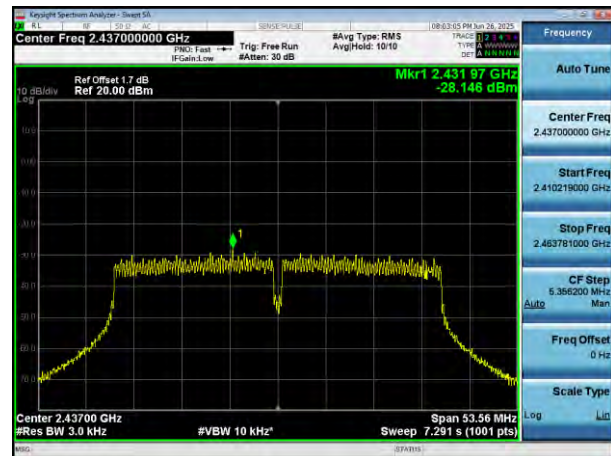
2422MHz



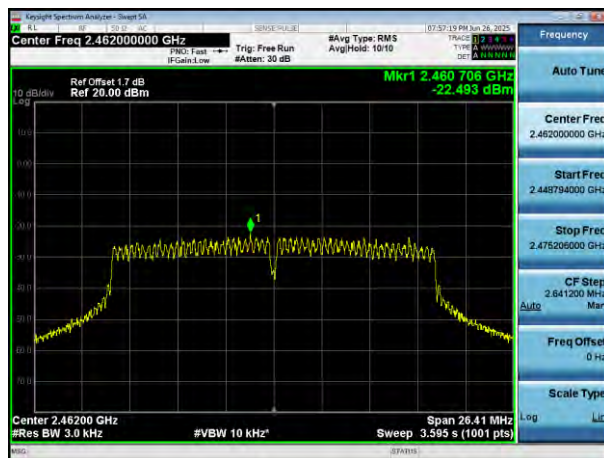
2437MHz



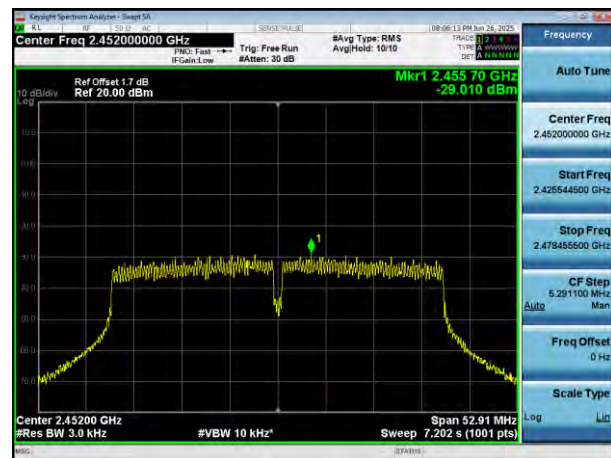
2437MHz



2462MHz



2452MHz



## 10. Band-edge Emission(Conducted)

### 10.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

### 10.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.10.

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 100kHz, VBW = 300kHz, Sweep = Auto, Detector = Peak.
- 4) Measure the highest amplitude appearing on spectral display and set it as a reference level.
- 5) Set a convenient frequency span including 100 kHz bandwidth from band edge.
- 6) Measure the emission and marking the edge frequency.
- 7) Repeat above procedures until all frequencies measured were complete.



Test Setup Block Diagram

### 10.3 Test Data and Results

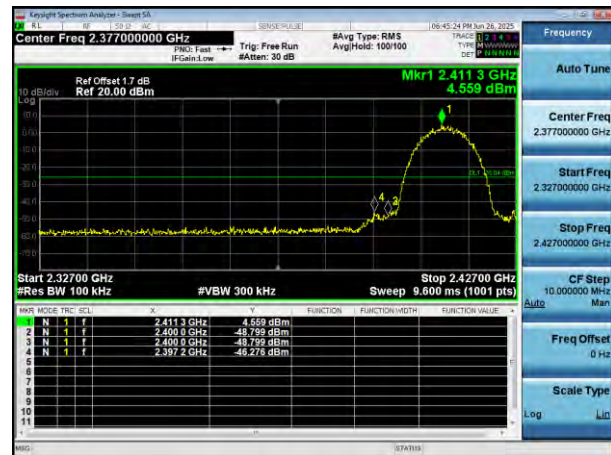
Test Mode	Band-edge	Test Channel (MHz)	Max. Value (dBc)	Limit (dBc)	Test Result
802.11b	Lowest	2412	-50.23	-30	Pass
	Highest	2462	-57.48	-30	Pass
802.11g	Lowest	2412	-31.71	-30	Pass
	Highest	2462	-51.1	-30	Pass
802.11n(HT20)	Lowest	2412	-30.91	-30	Pass
	Highest	2462	-41.45	-30	Pass
802.11n(HT40)	Lowest	2422	-31.44	-30	Pass
	Highest	2452	-38.91	-30	Pass
802.11ax(HE20)	Lowest	2412	-30.01	-30	Pass
	Highest	2462	-42.76	-30	Pass
802.11ax(HE40)	Lowest	2422	-33.36	-30	Pass
	Highest	2452	-36.84	-30	Pass

## 802.11b Lowest

Reference Power

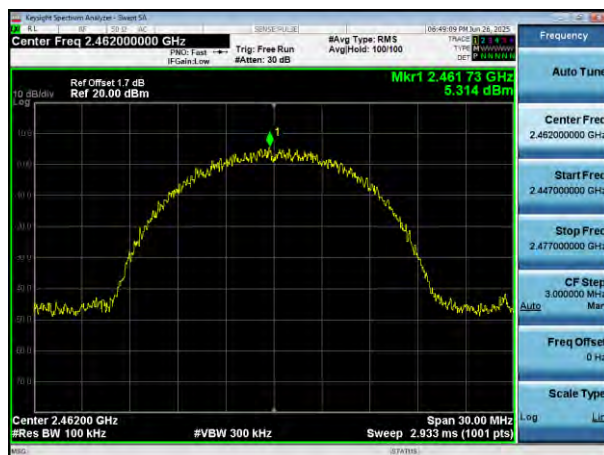


Band-edge Emission



## 802.11b Highest

Reference Power

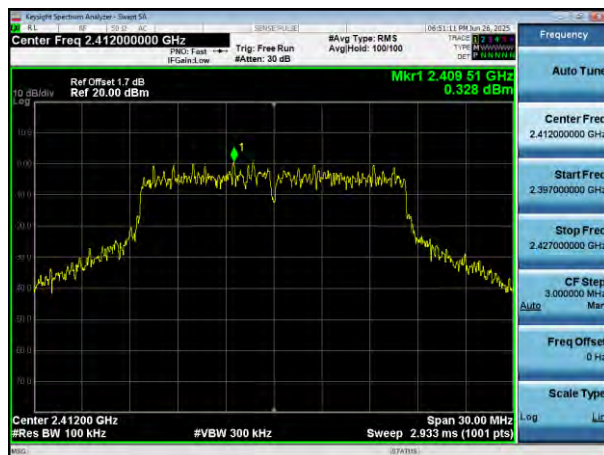


Band-edge Emission

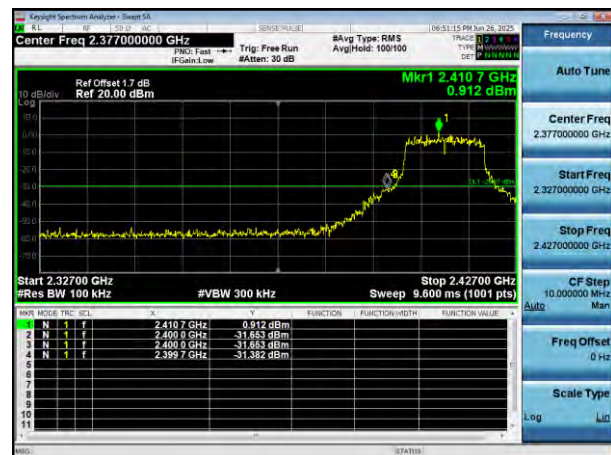


## 802.11g Lowest

Reference Power



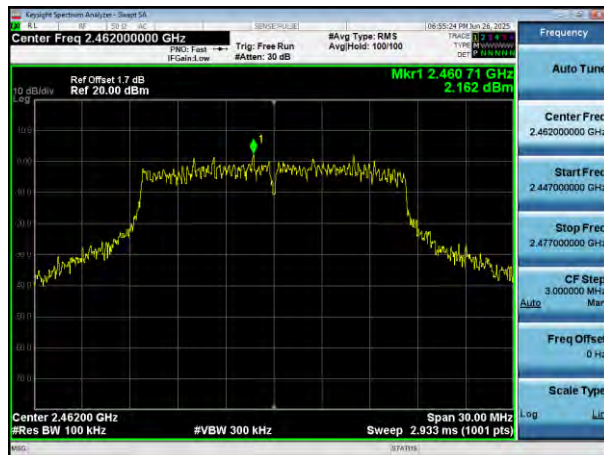
Band-edge Emission





## 802.11g Highest

Reference Power

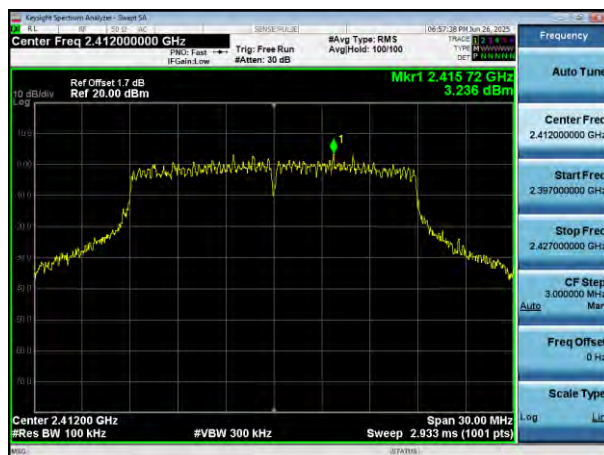


Band-edge Emission

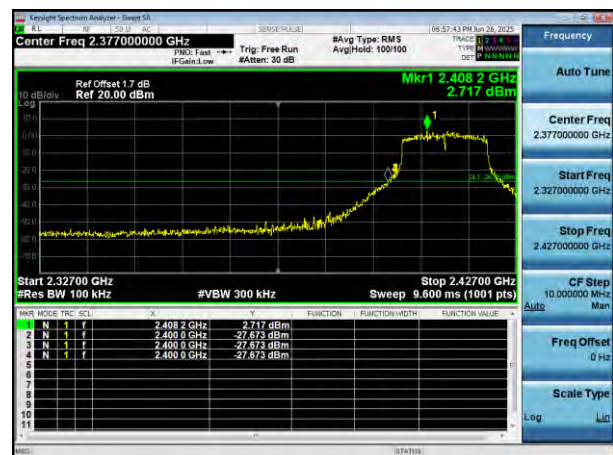


## 802.11n(HT20) Lowest

Reference Power

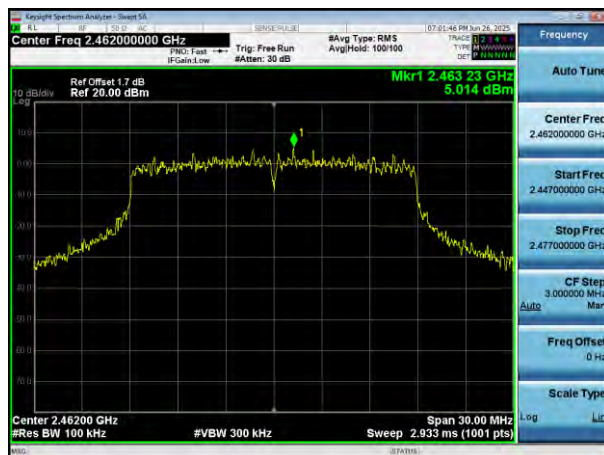


Band-edge Emission

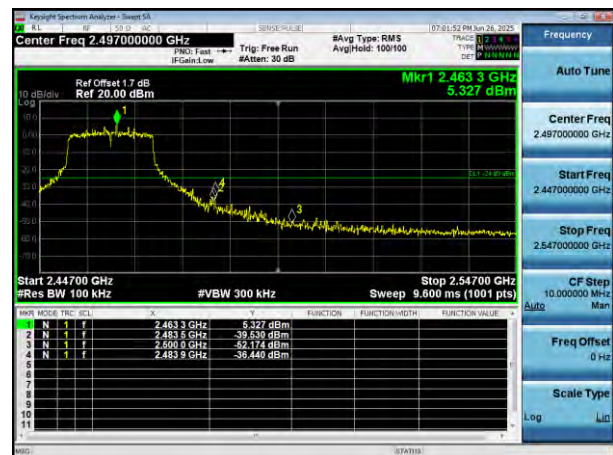


## 802.11n(HT20) Highest

Reference Power



Band-edge Emission

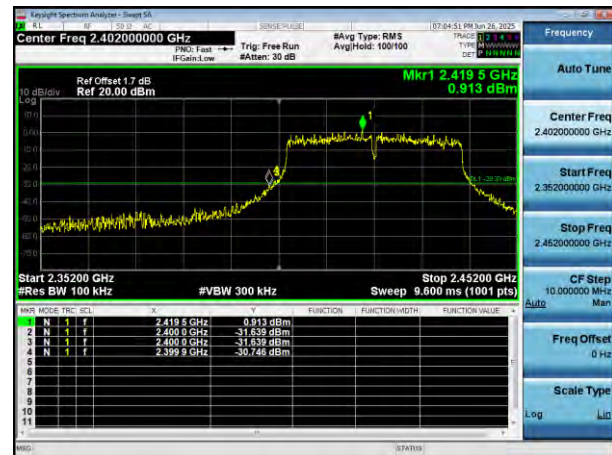


## 802.11n(HT40) Lowest

Reference Power

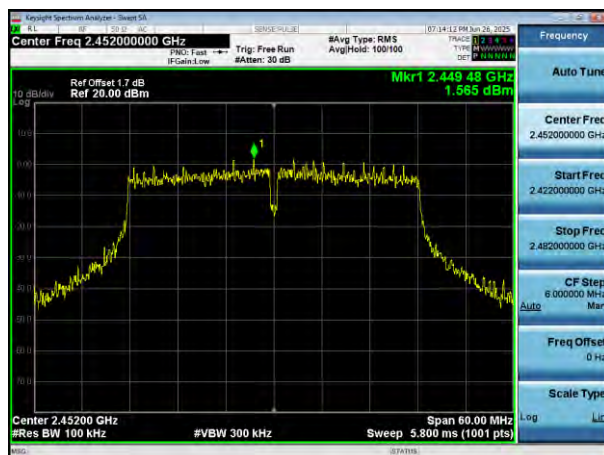


Band-edge Emission



## 802.11n(HT40) Highest

Reference Power

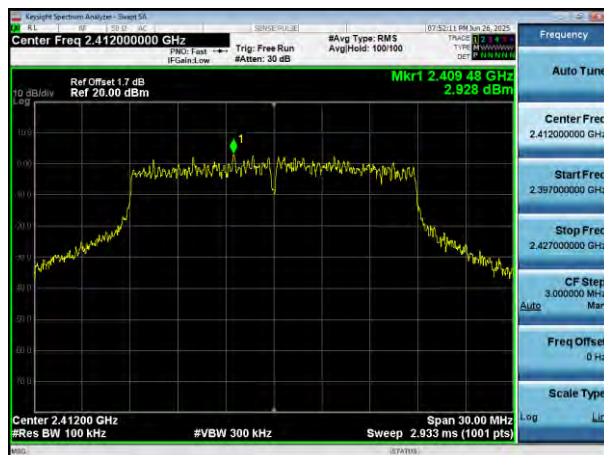


Band-edge Emission

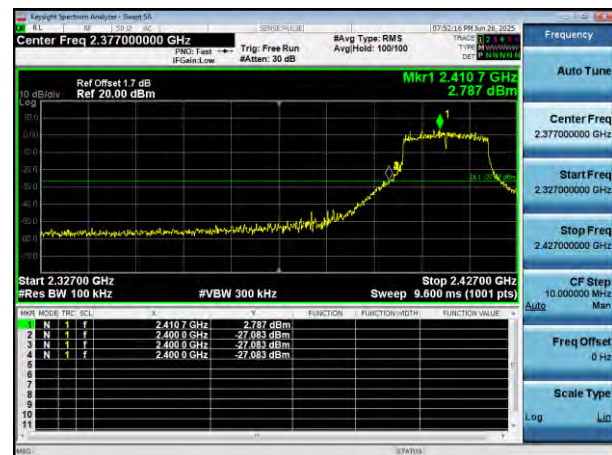


## 802.11ax(HE20) Lowest

Reference Power



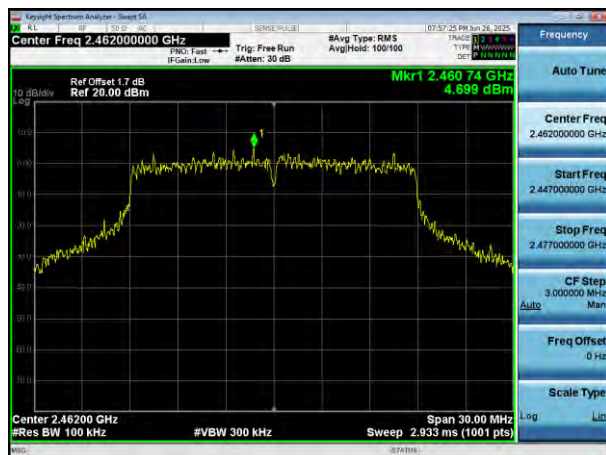
Band-edge Emission



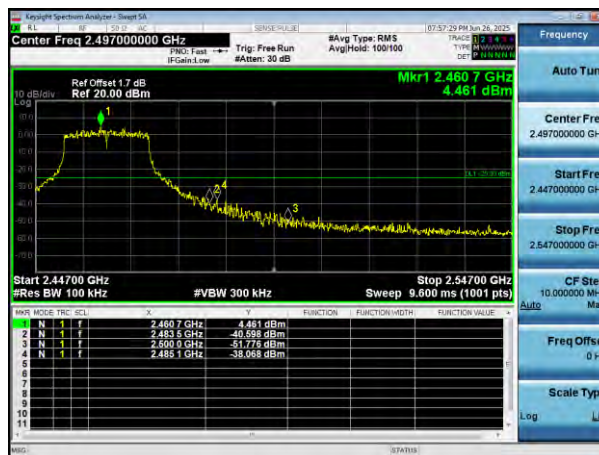


## 802.11ax(HE20) Highest

Reference Power

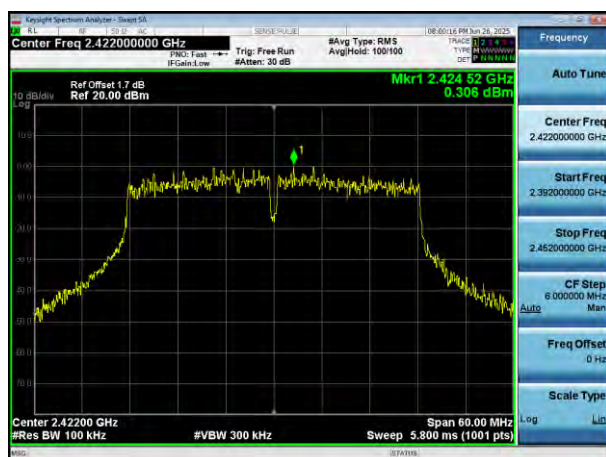


Band-edge Emission

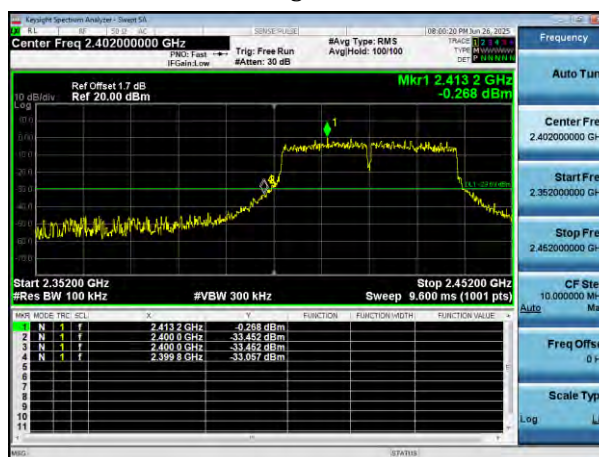


## 802.11ax(HE40) Lowest

Reference Power

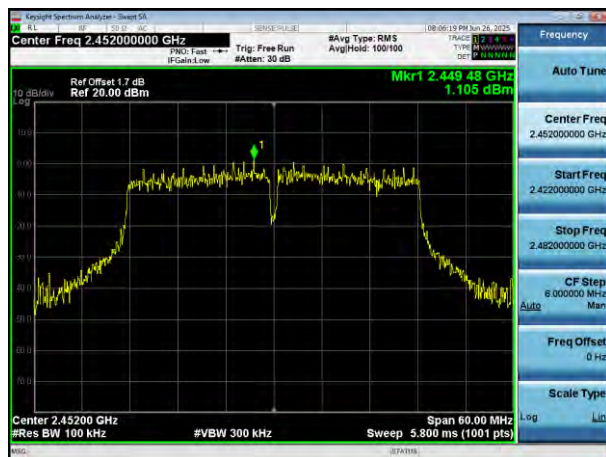


Band-edge Emission

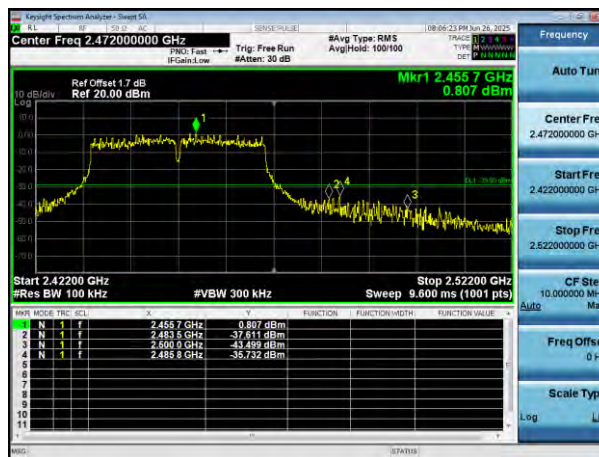


## 802.11ax(HE40) Highest

Reference Power



Band-edge Emission



## 11. Conducted RF Spurious Emissions

### 11.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

### 11.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.7.

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 100kHz, VBW = 300kHz, Sweep = Auto, Detector = Peak.
- 4) Measure the highest amplitude appearing on spectral display and set it as a reference level.
- 5) Measure the spurious emissions with frequency range from 9kHz to 26.5GHz.
- 6) Repeat above procedures until all measured frequencies were complete.



Test Setup Block Diagram

### 11.3 Test Data and Results

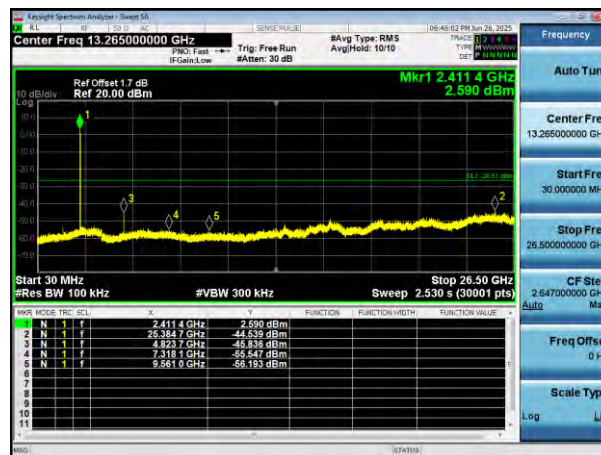
*Note: The measurement frequency range is from 9kHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions measurement data.*

## 802.11b Lowest

Reference Power



Spurious Emissions

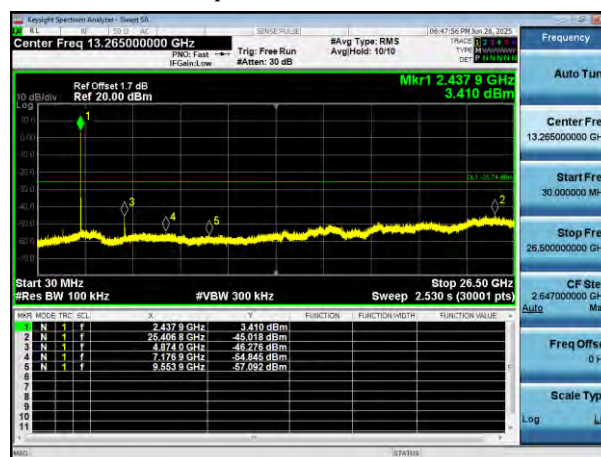


## 802.11b Middle

Reference Power



Spurious Emissions

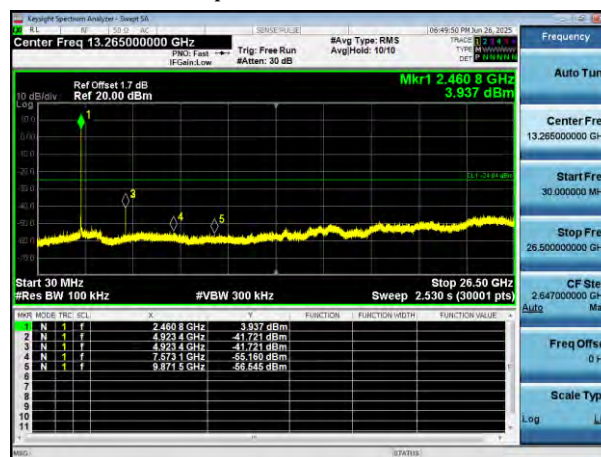


## 802.11b Highest

Reference Power



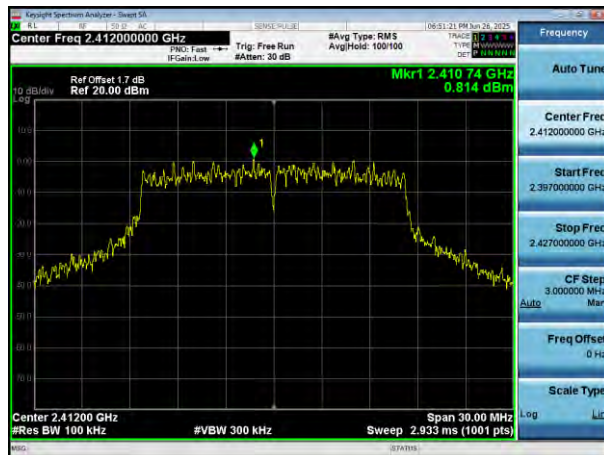
Spurious Emissions



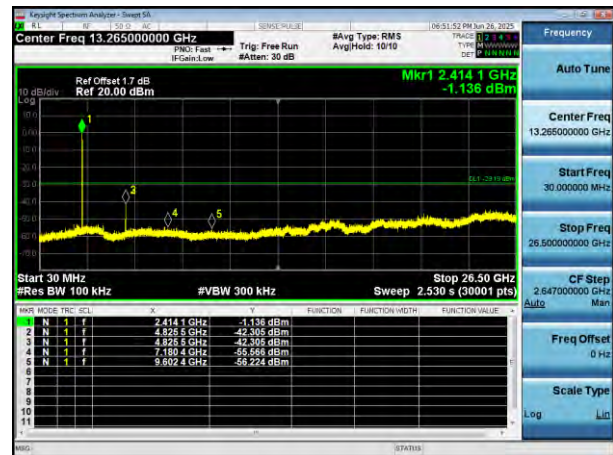


## 802.11g Lowest

Reference Power

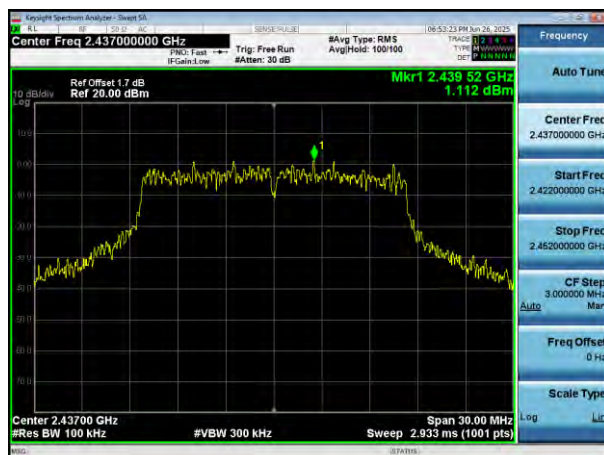


Spurious Emissions

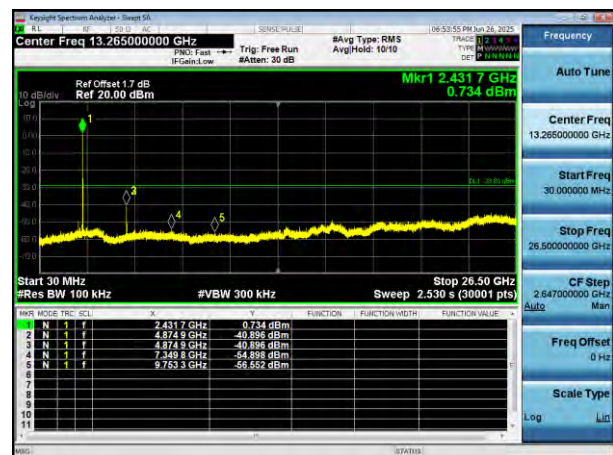


## 802.11g Middle

Reference Power

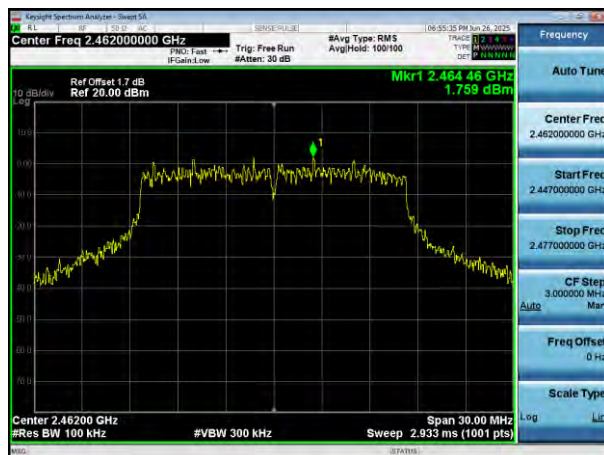


Spurious Emissions

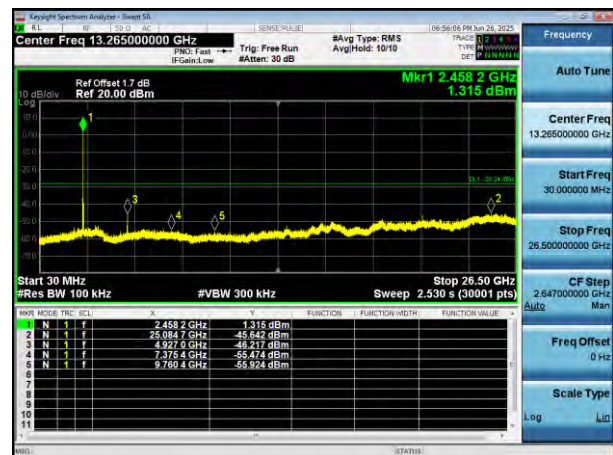


## 802.11g Highest

Reference Power

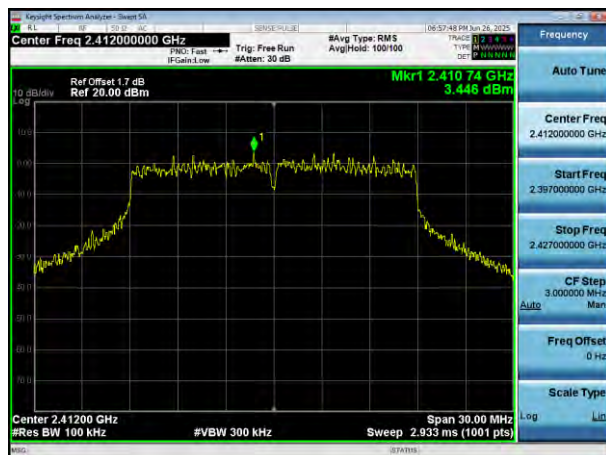


Spurious Emissions

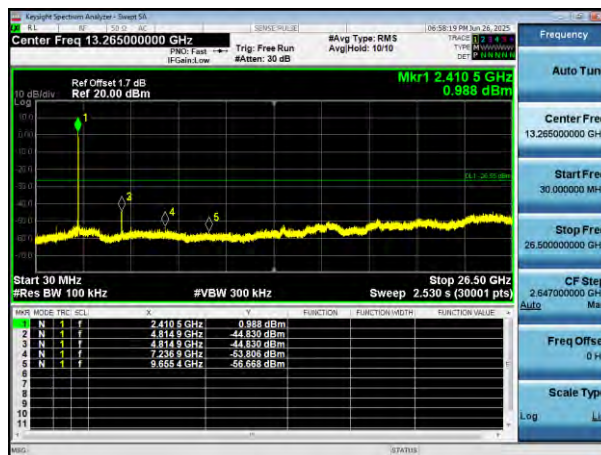


## 802.11n(HT20) Lowest

Reference Power

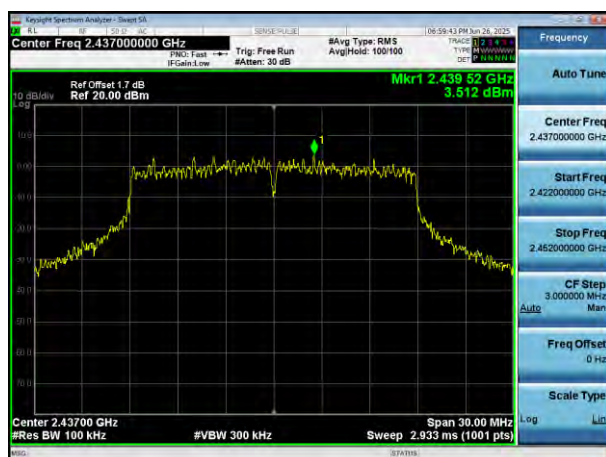


Spurious Emissions

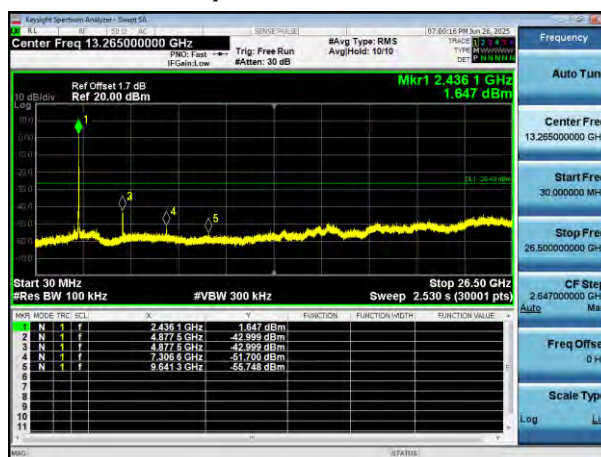


## 802.11n(HT20) Middle

Reference Power

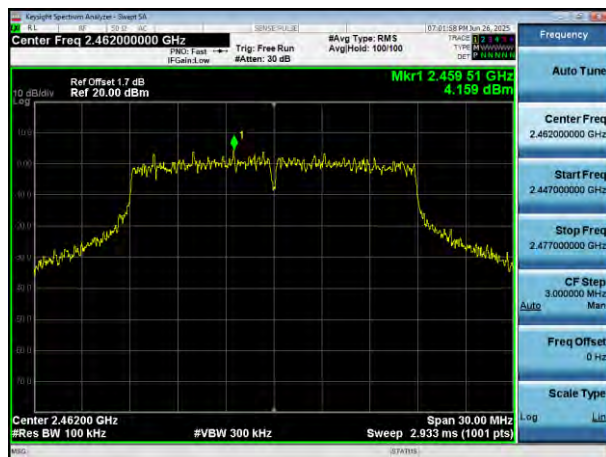


Spurious Emissions

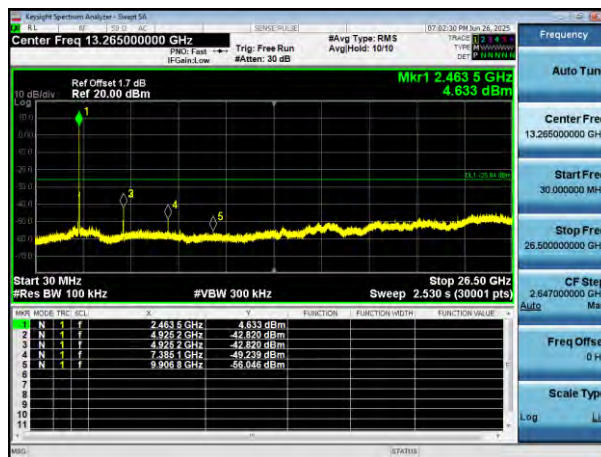


## 802.11n(HT20) Highest

Reference Power



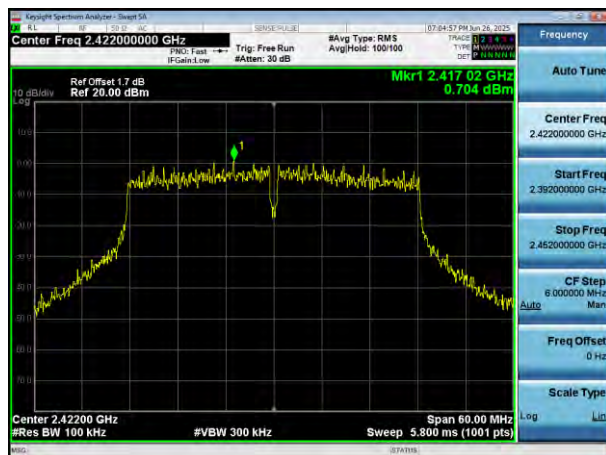
Spurious Emissions



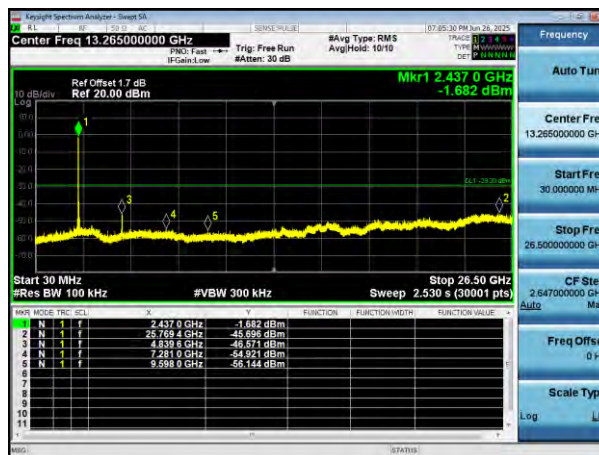


## 802.11n(HT40) Lowest

Reference Power

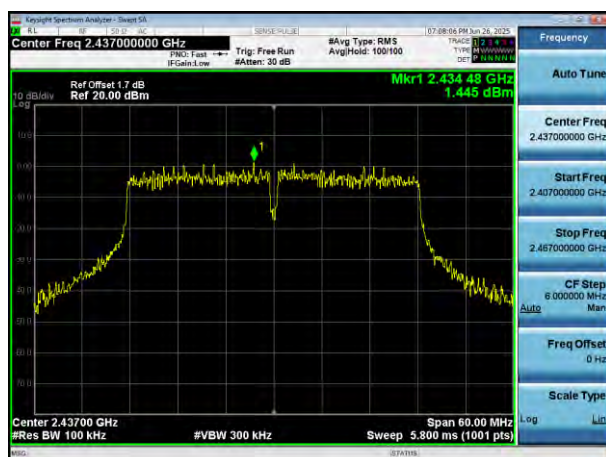


Spurious Emissions

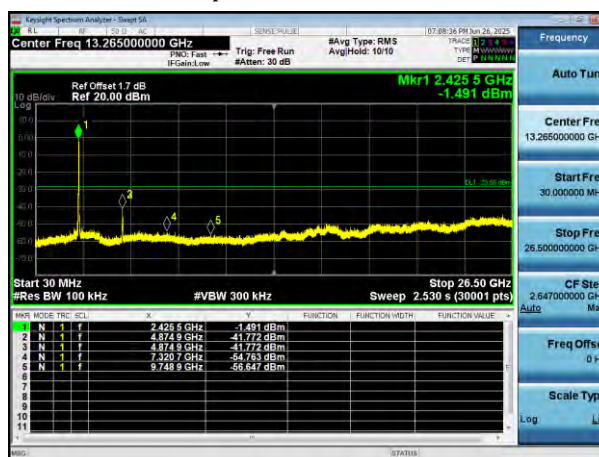


## 802.11n(HT40) Middle

Reference Power

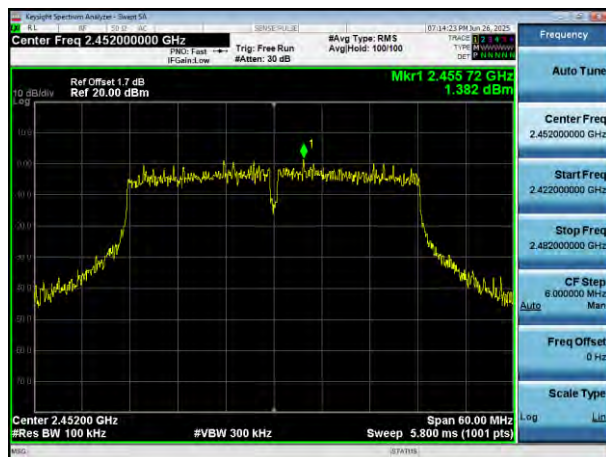


Spurious Emissions

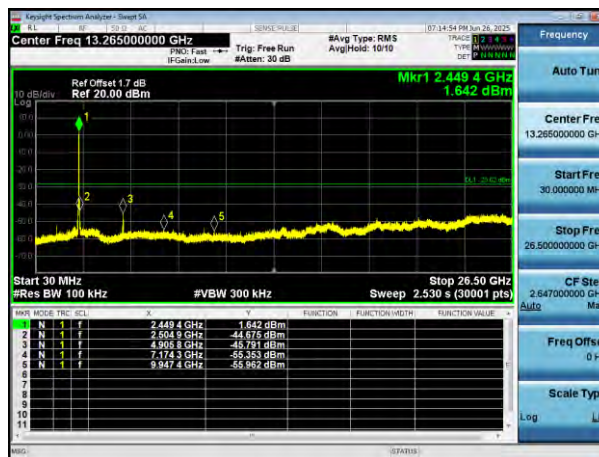


## 802.11n(HT40) Highest

Reference Power



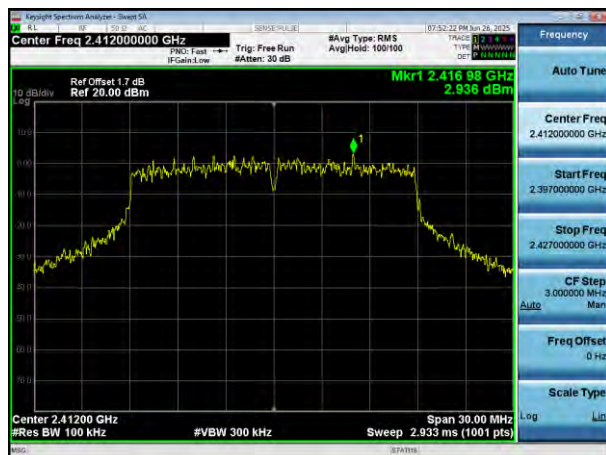
Spurious Emissions



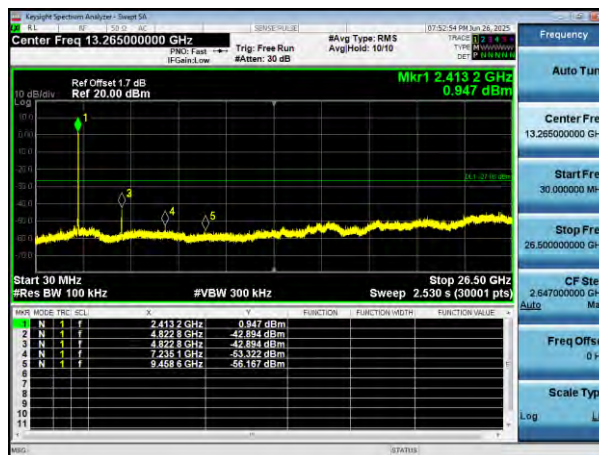


## 802.11ax(HE20) Lowest

Reference Power

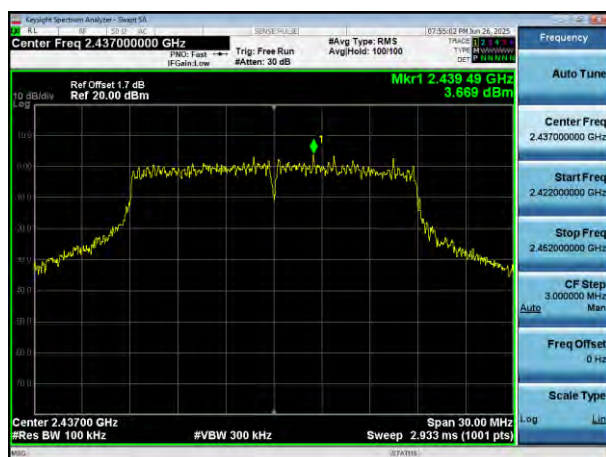


Spurious Emissions

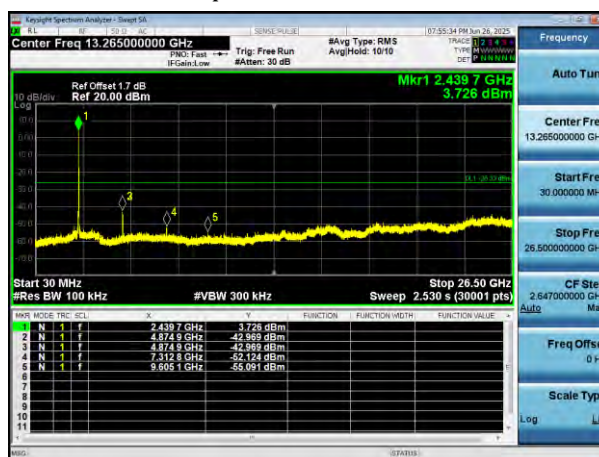


## 802.11ax(HE20) Middle

Reference Power

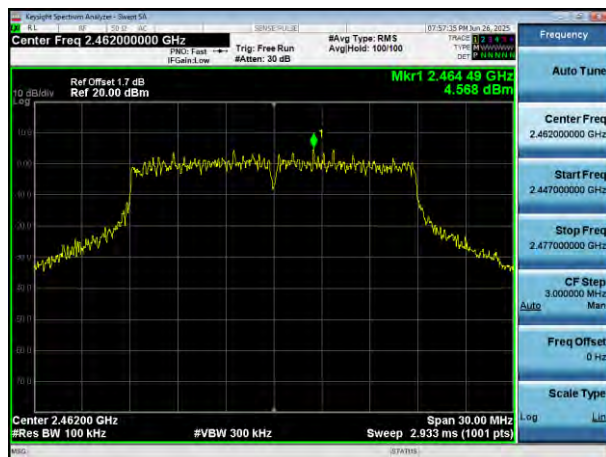


Spurious Emissions

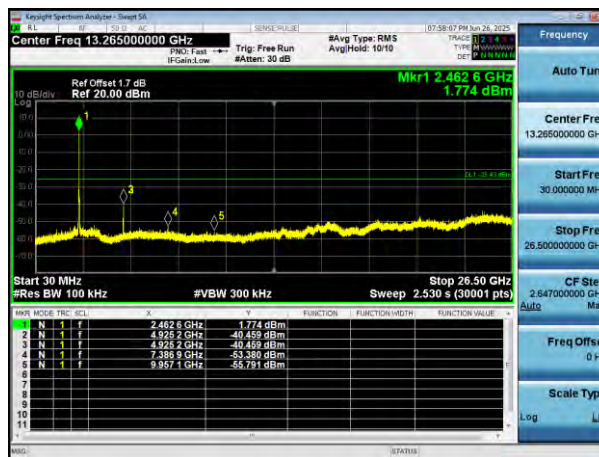


## 802.11ax(HE20) Highest

Reference Power

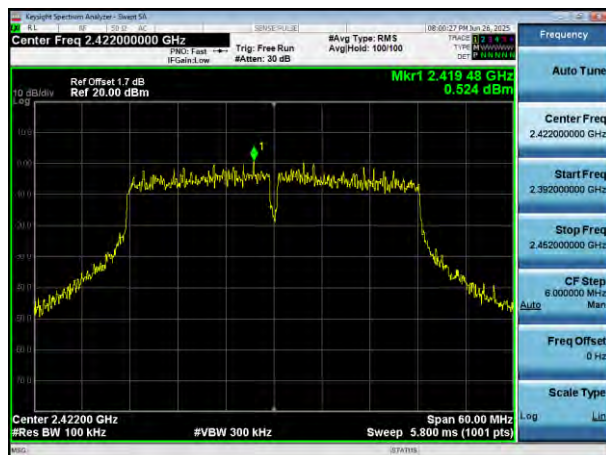


Spurious Emissions

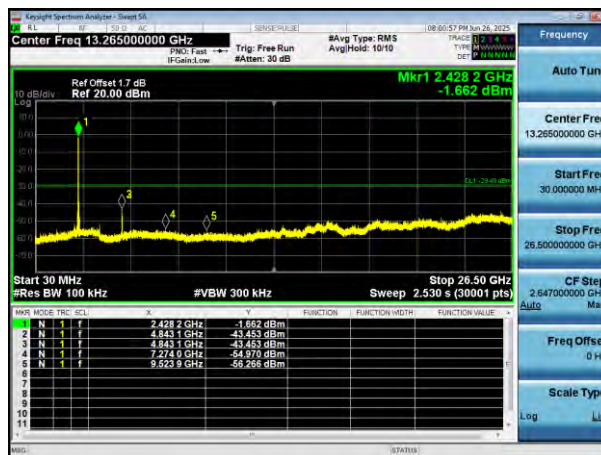


## 802.11ax(HE40) Lowest

Reference Power

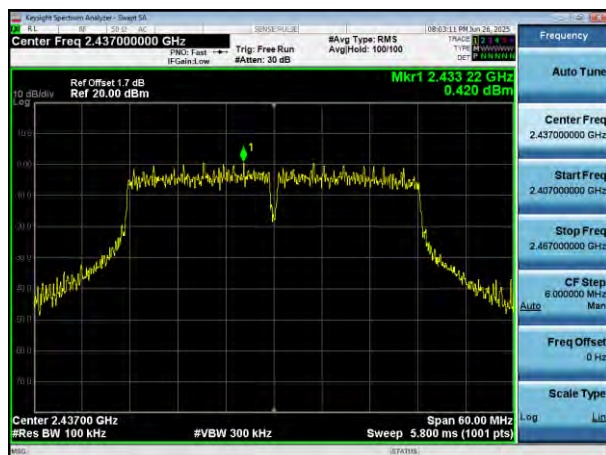


Spurious Emissions

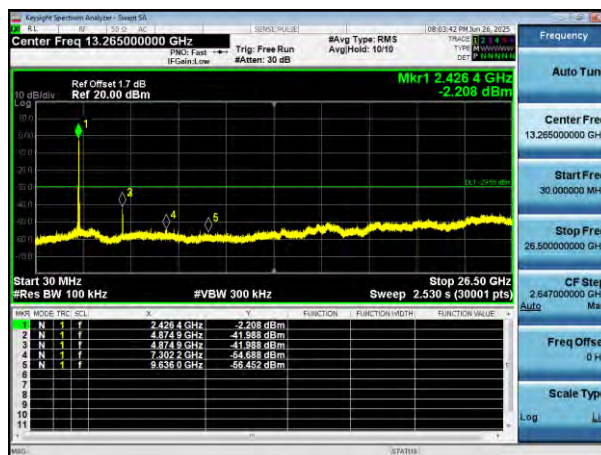


## 802.11ax(HE40) Middle

Reference Power



Spurious Emissions

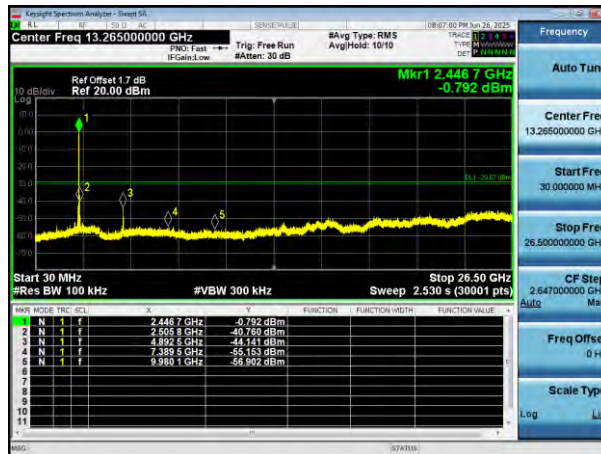


## 802.11ax(HE40) Highest

Reference Power



Spurious Emissions



\*\*\*\*\* END OF REPORT \*\*\*\*\*