

# TEST REPORT

**Applicant:** Realme Chongqing Mobile Telecommunications Corp., Ltd.  
**Address:** No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China  
**Equipment Type:** Mobile Phone  
**Model Name:** RMX3921  
**Brand Name:** realme  
**FCC ID:** 2AUYFRMX3921  
**Test Standard:** 47 CFR Part 15 Subpart C (refer to section 3.1)  
**Sample Arrival Date:** Apr. 28, 2024  
**Test Date:** Apr. 30, 2024 - May 31, 2024  
**Date of Issue:** Jun. 19, 2024

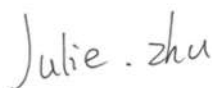
**ISSUED BY:**

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**Approved by:** Liao Jianming  
(Technical Director)



<b>Revision History</b>		
<u>Version</u>	<u>Issue Date</u>	<u>Revisions</u>
<u>Rev. 01</u>	<u>Jun. 19, 2024</u>	<u>Initial Issue</u>

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# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

## 1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

### 2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

### 2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	RMX3921
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	Color OS 14.0.0
Dimensions (Approx.)	about 161.34x73.91x8.23mm
Weight (Approx.)	Glass: about 190g/187g(with battery)
EUT ID	S09, S12, S11, S07
IMEI Number	S09:IMEI1 860052070018957; IEMI2 860052070018940
	S12:IMEI1 863858070017956; IEMI2 863858070017949
	S11:IMEI1 863858070017972; IEMI2 863858070017964
	S07:IMEI1 860052070019534; IEMI2 860052070019526

## 2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/13/17/26/66 LTE TDD Band 38/41 LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C 5G Network SA: NR n5/n7/n38/n41/n66 NSA(EN-DC): DC_2A_n66A, DC_5A_n7A, DC_5A_n66A, DC_7A_n5A, DC_7A_n66A, DC_26A_n41A, DC_66A_n5A, DC_66A_n7A Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), VHT20/40 and 802.11ax(HE20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80/160) and 802.11ax(HE20/40/80/160) U-NII-1/2A/2C/3, GPS, GLONASS, BDS, Galileo, SBAS, NFC
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	802.11b/g/n/ax(20 MHz): 2.412 GHz - 2.462 GHz $f_c = 2412 \text{ MHz} + (N-1) * 5 \text{ MHz}$ , where - $f_c$ = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11. 802.11n/ax(40 MHz): 2.422 GHz - 2.452 GHz $f_c = 2412 \text{ MHz} + (N-1) * 5 \text{ MHz}$ , where - $f_c$ = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 3 to 9.	
Modulation Type	DSSS, OFDM, OFDMA	
Product Type	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location	
Antenna System (eg., MIMO, Smart Antenna)	Cyclic Delay Diversity (CDD) for 802.11b/g Multi Input Multi Output (MIMO) for 802.11n/ax	
Categorization as Correlated or Completely Uncorrelated	Categorization as Correlated for 802.11b/g Categorization as Uncorrelated for 802.11n/ax	
Antenna Type	ANT 0 ANT 1	IFA Antenna
Antenna Gain	ANT 0	0.2 dBi
	ANT 0	-4.0 dBi
Total directional gain	For power spectral density (PSD)	Correlated: 1.36 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi

	measurements	Uncorrelated: --1.41 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/NANT]$ dBi
	For power measurements	Correlated: 1.36 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: -1.41 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/NANT]$ dBi
	For Conducted Out-of-Band and Spurious Measurements	Correlated: 1.36 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: -1.41 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/NANT]$ dBi
About the Product		Only the WIFI 802.11b, 802.11g, 802.11n (HT20/40), VHT20/40, 802.11ax (HE20/40) was tested in this report.

Mode	Antenna		
	SISO-Main Antenna	SISO-Aux. Antenna	MIMO
802.11b	√	√	√
802.11g	√	√	√
802.11n20	√	√	√
802.11n40	√	√	√
VHT20	√	√	√
VHT40	√	√	√
802.11ax20	√	√	√
802.11ax40	√	√	√

Note: All the configurations were tested, but only the worst data was shown in this report.

802.11ax RU configuration table						
Mode	Full RU (SU)	RU_26	RU_52	RU_106	RU_242	RU_484
802.11ax20	√	√	√	√	--	--
802.11ax40	√	√	√	√	√	--

Modulation technology	Modulation Type	Transfer Rate (Mbps)(Single RF path)
DSSS (802.11b)	DBPSK	1
	DQPSK	2
	CCK	5.5/11
OFDM (802.11g)	BPSK	6/9
	QPSK	12/18
	16QAM	24/36
	64QAM	48/54
OFDM (802.11n/VHT-20 MHz)	BPSK	6.5/7.2
	QPSK	13/19.5/14.4/21.7
	16QAM	26/39/28.9/43.3
	64QAM	52/58.5/65/57.8/65/72.2
OFDM (802.11n/VHT-40 MHz)	BPSK	13.5/15
	QPSK	27/40.5/30/45
	16QAM	54/81/60/90
	64QAM	108/121.5/135/120/150
OFDMA (802.11ax-20 MHz)	BPSK	4
	QPSK	16/24/17/26
	16QAM	33/49/34/52
	64QAM	65/73/81/69/77/86
	256QAM	98/108/103/115
	1024QAM	122/135/129/143
OFDMA (802.11ax-40 MHz)	BPSK	8/9
	QPSK	33/49/34/52
	16QAM	65/98/69/103
	64QAM	130/146/163/138/155/172
	256QAM	195/217/207/229
	1024QAM	244/271/258/287

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel	
Output Power	11b/11g/11n20/11n40/VHT20/VHT40/11ax20/11ax40	1/6/6.5/13.5/4/8/4 Mbps	1/6/11	3/6/9
Occupied Bandwidth	11b/11g/11n20/11n40/VHT20/VHT40/11ax20/11ax40	1/6/6.5/13.5/4/8/4 Mbps	1/6/11	3/6/9
Conducted Spurious Emission	11b/11g/11n20/11n40/VHT20/VHT40/11ax20/11ax40	1/6/6.5/13.5/4/8/4 Mbps	1/6/11	3/6/9
Conducted Emission	11b/11g/11n20/11n40/VHT20/VHT40/11ax20/11ax40	1/6/6.5/13.5/4/8/4 Mbps	1/6/11	3/6/9
Radiated Spurious	11b/11g/11n20/11n40/VHT20/VHT40/11ax20/11ax40	1/6/6.5/13.5/4/8/4 Mbps	1/6/11	3/6/9



Emission	HT40/11ax20/11ax40	4/8/4 Mbps		
Band Edge	11b/11g/11n20/11n40/VHT20/V HT40/11ax20/11ax40	1/6/6.5/13.5/ 4/8/4 Mbps	1/6/11	3/6/9
Power spectral density (PSD)	11b/11g/11n20/11n40/VHT20/V HT40/11ax20/11ax40	1/6/6.5/13.5/ 4/8/4 Mbps	1/6/11	3/6/9

Note: The above EUT information in section 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
3	KDB Publication 558074 D01v05r02	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

#### 3.2 Test Verdict

No.	Description	FCC PART No.	Test Result	Verdict
1	Antenna Requirement	15.203	N/A	Pass <sup>Note 1</sup>
2	Output Power	15.247 (b)	ANNEX A.1	Pass
3	Occupied Bandwidth	15.247 (a)	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247 (d)	ANNEX A.3	Pass
5	Band Edge(Authorized-band band-edge)	15.247 (d)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Radiated Spurious Emission	15.209; 15.247 (d)	ANNEX A.6	Pass
8	Band Edge(Restricted-band band-edge)	15.209; 15.247 (d)	ANNEX A.7	Pass
9	Power spectral density (PSD)	15.247 (e)	ANNEX A.8	Pass

Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	45% to 67%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.3°C to +24.4°C
Working Voltage of the EUT	NV (Normal Voltage)	3.8 V

### 4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2023.05.16	2024.05.15
				2024.05.08	2025.05.07
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2023.07.12	2024.07.11
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2023.09.05	2024.09.04
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2022.02.23	2025.02.22
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2024.09.03
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2023.09.05	2024.09.04
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2023.09.05	2024.09.04
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2023.12.06	2024.12.05
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2023.09.05	2024.09.04
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2025.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2023.12.05	2024.12.04
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2021.08.15	2024.08.14
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2023.09.05	2024.09.04
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2021.08.20	2024.08.19
Amplifier	COM-MV	ZT30-1000M	B2017119082	2023.12.05	2024.12.04
Anechoic Chamber	RAINFORD	9m*6m*6m	101	2023.03.04	2026.03.03
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15
				2024.05.08	2025.05.07
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8 m	112	2022.02.19	2025.02.18

### 4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

### 4.4 Measurement Uncertainty

The following measurement 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.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

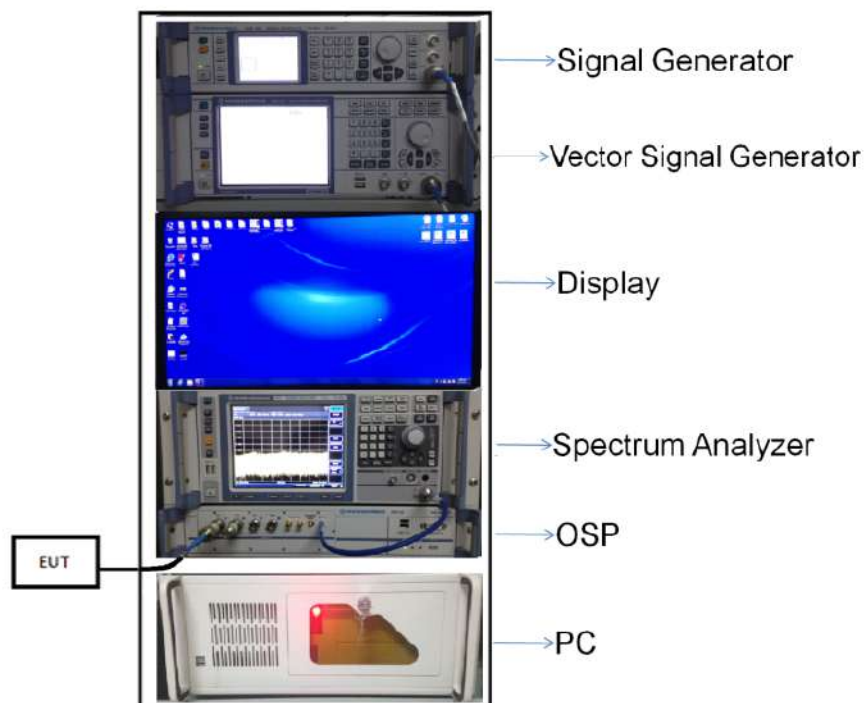
### 4.5 Description of Test Setup

#### 4.5.1 For Antenna Port Test

$$\text{Conducted value (dBm)} = \text{Measurement value (dBm)} + \text{cable loss (dB)}$$

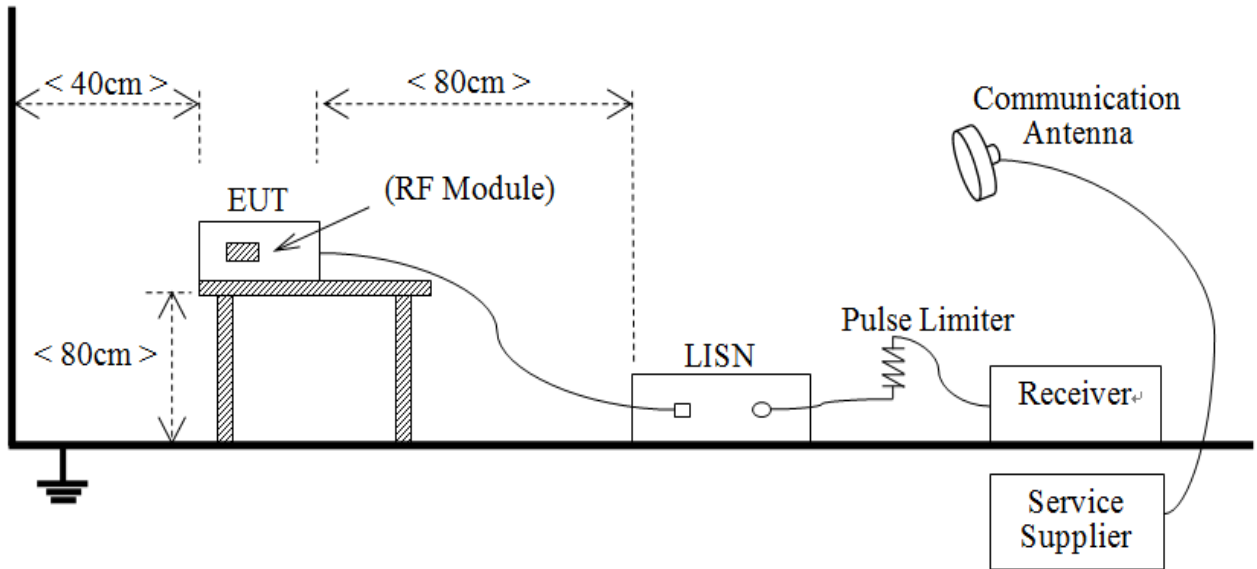
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

$$\text{Conducted value (dBm)} = 10 \text{ dBm} + 0.5 \text{ dB} = 10.5 \text{ dBm}$$



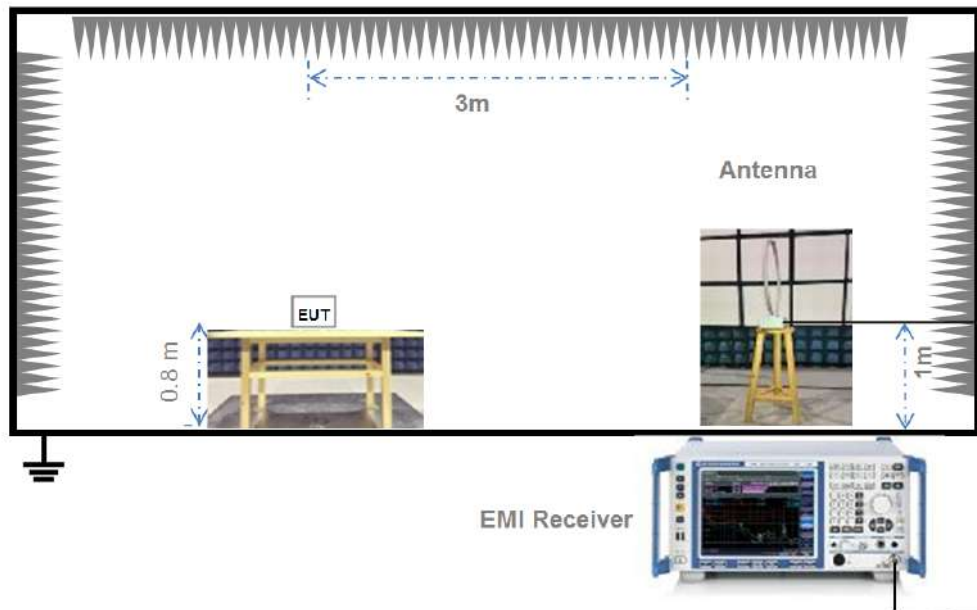
(Diagram 1)

4.5.2 For AC Power Supply Port Test



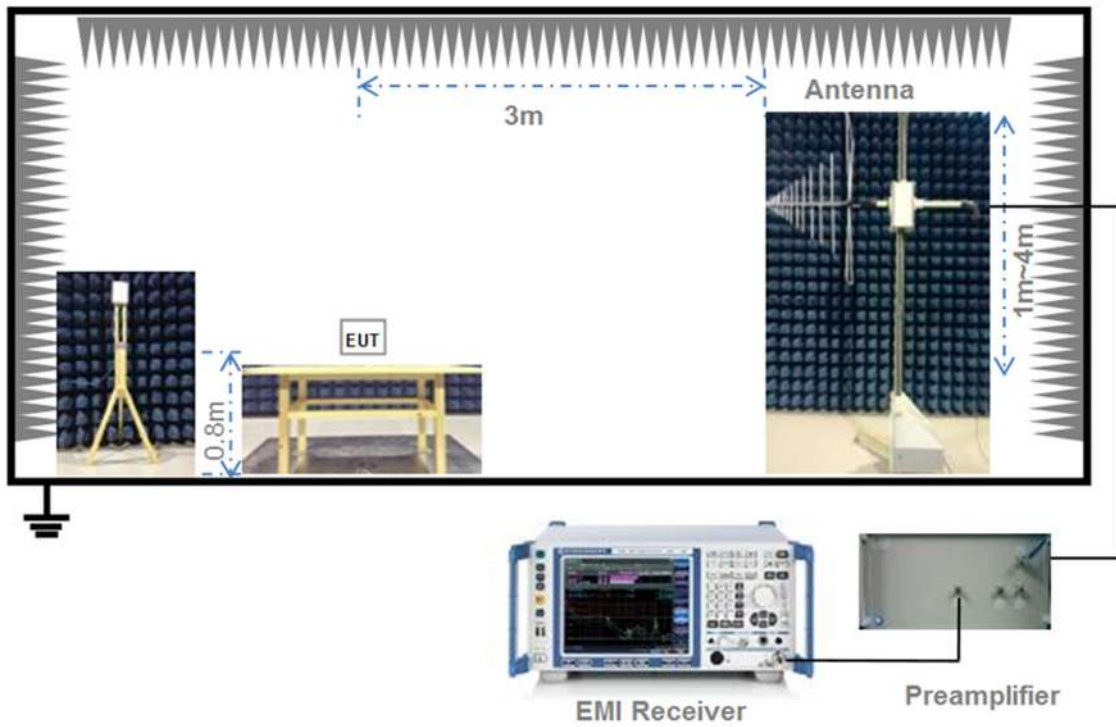
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



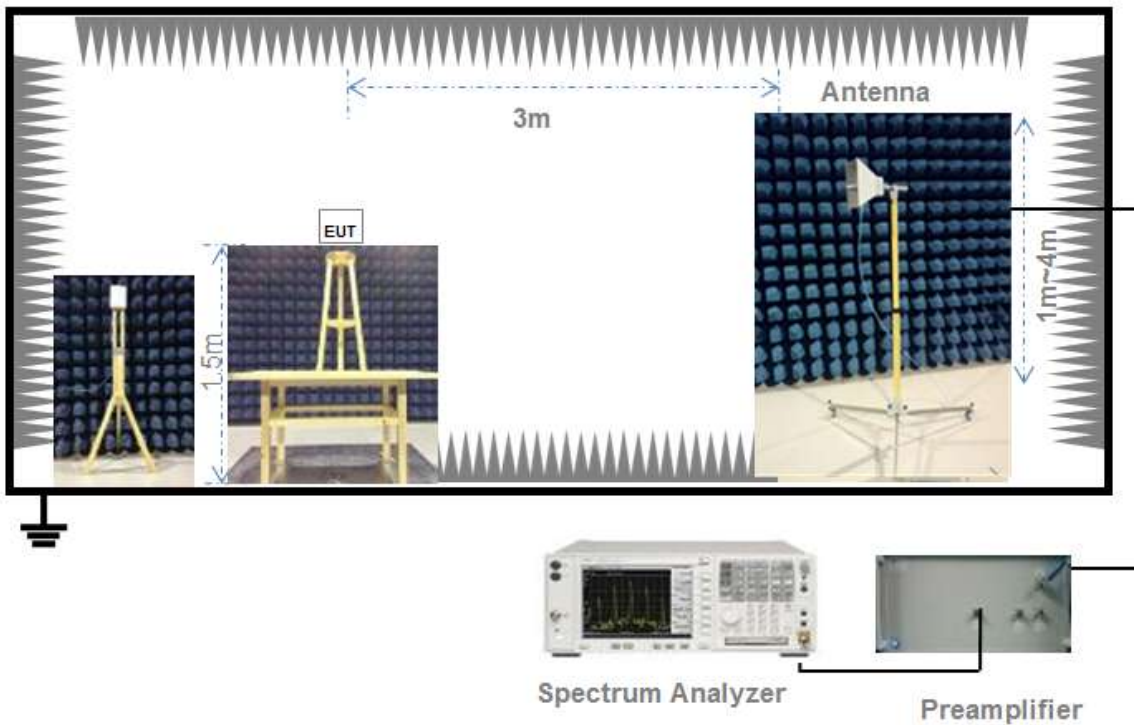
(Diagram 3)

#### 4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

#### 4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

## 4.6 Measurement Results Explanation Example

### 4.6.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

### 4.6.2 For radiated band edges and spurious emission test:

$$E = \text{EIRP} - 20 \log D + 104.8$$

where:

E = electric field strength in dB $\mu$ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

EIRP = Measure Conducted output power Value (dBm) + Maximum transmit antenna gain (dBi) + the appropriate maximum ground reflection factor (dB)



## 5 TEST ITEMS

### 5.1 Antenna Requirements

#### 5.1.1 Relevant Standards

##### FCC §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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

#### 5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

#### 5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

## 5.2 Output Power

### 5.2.1 Test Limit

#### FCC § 15.247(b)

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.

### 5.2.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.2.3 Test Procedure

#### Maximum peak conducted output power

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The EUT shall be transmitted at its maximum power control level.

#### Maximum conducted (average) output power (Reporting Only)

a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.

c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

d) Adjust the measurement in dBm by adding  $10\log(1/x)$ , where x is the duty cycle.

#### Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between

bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set  $RBW \geq OBW$  if possible; otherwise, set RBW to the largest available value.

Set  $VBW \geq RBW$ . Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are  $> 50/T$  and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if  $T \leq 16.7$  microseconds.)

#### 5.2.4 Test Result

Please refer to ANNEX A.1.

## 5.3 Occupied Bandwidth

### 5.3.1 Limit

FCC §15.247(a)

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

### 5.3.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW)  $\geq$  3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 5.3.4 Test Result

Please refer to ANNEX A.2.

## 5.4 Conducted Spurious Emission

### 5.4.1 Limit

FCC §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.

### 5.4.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.4.3 Test Procedure

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).
- b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).
- c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required.

The following procedures shall be used to demonstrate compliance to these limits. Note that these procedures can be used in either an antenna-port conducted or radiated test set-up. Radiated tests must conform to the test site requirements and utilize maximization procedures defined herein.

#### Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to  $\geq 1.5$  times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW  $\geq 3 \times$  RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

#### Emission level measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

Set the RBW = 100 kHz.

Set the VBW  $\geq 3 \times$  RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

#### 5.4.4 Test Result

Please refer to ANNEX A.3.

## 5.5 Band Edge (Authorized-band band-edge)

### 5.5.1 Limit

#### FCC §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.

### 5.5.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.5.3 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.1. Use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle  $\geq 98\%$ ). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than  $\pm 2$  percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW  $\geq 3 \times$  RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission)  $\pm 0.5$  MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission  $\pm 0.5$  MHz.

Standard method(The 99% OBW of the fundamental emission is without 2 MHz of the authorized band):

Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz.

Video bandwidth: 300 kHz.

Detector: Peak.

Trace: Max hold.

#### 5.5.4 Test Result

Please refer to ANNEX A.4.



## 5.6 Conducted Emission

### 5.6.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

### 5.6.2 Test Setup

See section 4.5.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

### 5.6.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

### 5.6.4 Test Result

Please refer to ANNEX A.5.

## 5.7 Radiated Spurious Emission

### 5.7.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ( $\mu\text{V}/\text{m}$ )	Measurement Distance (m)
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:

- For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
- For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

### 5.7.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.7.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

### General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies  $\leq 30$  MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies  $> 1000$  MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB $\mu$ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

### Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

### Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW  $\geq 3 \times$  RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be

longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle  $\geq 98$  percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than  $\pm 2$  percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle,  $x$ , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW  $\geq 3 \times$  RBW.
- e) Detector = RMS, if  $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$ . Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
  - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
  - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
  - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is  $10 \log(1/x)$ , where  $x$  is the duty cycle.
  - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is  $20 \log(1/x)$ , where  $x$  is the duty cycle.
  - 3) If a specific emission is demonstrated to be continuous ( $\geq 98$  percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

#### Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

#### Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

#### 5.7.4 Test Result

Please refer to ANNEX A.6.

## 5.8 Band Edge (Restricted-band band-edge)

### 5.8.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

### 5.8.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.8.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

For transmitters operating above 1 GHz repeat the measurement with an average detector.

### 5.8.4 Test Result

Please refer to ANNEX A.7.

## 5.9 Power Spectral density (PSD)

### 5.9.1 Limit

#### FCC §15.247(e)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

### 5.9.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .

Set the VBW  $\geq 3 \text{ RBW}$ .

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 5.9.4 Test Result

Please refer to ANNEX A.8.



## ANNEX A TEST RESULT

### A.1 Output Power

Note: All the configurations were pre tested, only the worst configuration has been reported in this report.

#### Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
802.11b	0.66	0.68	97.79%	0.10
802.11g	5.42	5.45	99.43%	0.02
802.11n-20 MHz	5.38	5.43	98.99%	0.04
802.11n-40 MHz	5.39	5.45	98.99%	0.04
VHT20	5.42	5.45	99.54%	0.02
VHT40	5.43	5.45	99.63%	0.02
802.11ax-20 MHz	5.34	5.36	99.63%	0.02
802.11ax-40 MHz	5.35	5.43	98.43%	0.07
802.11ax-20 MHz (RU)	5.34	5.36	99.63%	0.02
802.11ax-40 MHz (RU)	5.35	5.43	98.43%	0.07

#### ANT 0:

#### Peak Power Test Data

##### 802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	18.96	78.70	30	1000	Pass
CH2	19.53	89.74			Pass
CH3	21.38	137.40			Pass
CH6	21.35	136.46			Pass
CH10	19.42	87.50			Pass
CH11	19.46	88.31			Pass

##### 802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	19.48	88.72	30	1000	Pass
CH2	20.03	100.69			Pass
CH3	22.15	164.06			Pass
CH4	23.60	229.09			Pass
CH6	23.43	220.29			Pass
CH9	22.42	174.58			Pass
CH10	20.47	111.43			Pass
CH11	19.33	85.70			Pass

## 802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	18.53	71.29	30	1000	Pass
CH2	20.09	102.09			Pass
CH3	21.02	126.47			Pass
CH4	22.62	182.81			Pass
CH6	23.54	225.94			Pass
CH9	21.63	145.55			Pass
CH10	20.07	101.62			Pass
CH11	18.21	66.22			Pass

## 802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	18.08	64.27	30	1000	Pass
CH4	18.87	77.09			Pass
CH5	21.87	153.82			Pass
CH6	20.80	120.23			Pass
CH7	20.64	115.88			Pass
CH8	16.97	49.77			Pass
CH9	16.51	44.77			Pass

## VHT20 Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	18.44	69.82	30	1000	Pass
CH2	19.96	99.08			Pass
CH3	21.85	153.11			Pass
CH4	22.51	178.24			Pass
CH5	22.59	181.55			Pass
CH6	23.41	219.28			Pass
CH9	21.38	137.40			Pass
CH10	20.42	110.15			Pass
CH11	18.25	66.83			Pass

## VHT40 Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	18.08	64.27	30	1000	Pass
CH4	18.87	77.09			Pass
CH5	20.39	109.40			Pass
CH6	20.29	106.91			Pass
CH7	19.06	80.54			Pass
CH8	18.92	77.98			Pass
CH9	16.43	43.95			Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	20.15	103.51	30	1000	Pass
CH2	20.61	115.08			Pass
CH3	21.06	127.64			Pass
CH4	23.23	210.38			Pass
CH5	22.12	162.93			Pass
CH6	24.02	252.35			Pass
CH8	23.35	216.27			Pass
CH9	22.61	182.39			Pass
CH10	21.01	126.18			Pass
CH11	19.88	97.27			Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	18.95	78.52	30	1000	Pass
CH4	19.67	92.68			Pass
CH5	20.79	119.95			Pass
CH6	20.37	108.89			Pass
CH7	19.04	80.17			Pass
CH8	18.78	75.51			Pass
CH9	17.35	54.33			Pass

## 802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.44	13.93	30	1000	Pass
Middle	12.05	16.03			Pass
High	11.25	13.34			Pass

## 802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.45	22.13	30	1000	Pass
Middle	14.15	26.00			Pass
High	13.89	24.49			Pass

## 802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.53	44.98	30	1000	Pass
Middle	17.59	57.41			Pass
High	17.01	50.23			Pass

## 802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.61	14.49	30	1000	Pass
Middle	13.07	20.28			Pass
High	11.44	13.93			Pass

## 802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.17	32.89	30	1000	Pass
Middle	15.33	34.12			Pass
High	13.77	23.82			Pass

## 802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.42	43.85	30	1000	Pass
Middle	16.99	50.00			Pass
High	16.14	41.11			Pass

## 802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.02	100.46	30	1000	Pass
Middle	20.41	109.90			Pass
High	20.13	103.04			Pass

### Average Power Test Data

#### 802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	15.90	38.90	30	1000	Pass
CH2	16.11	40.83			Pass
CH3	18.31	67.76			Pass
CH6	18.36	68.55			Pass
CH10	16.12	40.93			Pass
CH11	16.41	43.75			Pass

#### 802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	13.76	23.77	30	1000	Pass
CH2	14.36	27.29			Pass
CH3	16.44	44.06			Pass
CH4	17.89	61.52			Pass
CH6	17.66	58.34			Pass
CH9	16.72	46.99			Pass
CH10	14.87	30.69			Pass
CH11	13.61	22.96			Pass

#### 802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	12.37	17.26	30	1000	Pass
CH2	13.46	22.18			Pass
CH3	15.39	34.59			Pass
CH4	16.68	46.56			Pass
CH6	17.36	54.45			Pass
CH9	15.57	36.06			Pass
CH10	13.86	24.32			Pass
CH11	12.11	16.26			Pass

## 802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	11.75	14.96	30	1000	Pass
CH4	12.13	16.33			Pass
CH5	15.46	35.16			Pass
CH6	14.50	28.18			Pass
CH7	14.30	26.92			Pass
CH8	10.67	11.67			Pass
CH9	10.17	10.40			Pass

## VHT20 Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	12.36	17.22	30	1000	Pass
CH2	13.58	22.80			Pass
CH3	15.57	36.06			Pass
CH4	16.81	47.97			Pass
CH5	16.72	46.99			Pass
CH6	17.23	52.84			Pass
CH9	15.61	36.39			Pass
CH10	13.96	24.89			Pass
CH11	12.03	15.96			Pass

## VHT40 Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	11.75	14.96	30	1000	Pass
CH4	12.28	16.90			Pass
CH5	13.81	24.04			Pass
CH6	13.27	21.23			Pass
CH7	12.50	17.78			Pass
CH8	10.74	11.86			Pass
CH9	10.06	10.14			Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	12.60	18.20	30	1000	Pass
CH2	13.79	23.93			Pass
CH3	15.71	37.24			Pass
CH4	17.05	50.70			Pass
CH5	16.93	49.32			Pass
CH6	17.51	56.36			Pass
CH8	16.82	48.08			Pass
CH9	15.82	38.19			Pass
CH10	14.17	26.12			Pass
CH11	12.30	16.98			Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	11.36	13.68	30	1000	Pass
CH4	11.98	15.78			Pass
CH5	13.55	22.65			Pass
CH6	13.00	19.95			Pass
CH7	12.22	16.67			Pass
CH8	10.46	11.12			Pass
CH9	9.82	9.59			Pass

## 802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	4.00	2.51	30	1000	Pass
Middle	5.24	3.34			Pass
High	3.88	2.44			Pass

## 802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.52	5.65	30	1000	Pass
Middle	8.70	7.41			Pass
High	7.43	5.53			Pass

## 802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.66	14.66	30	1000	Pass
Middle	12.87	19.36			Pass
High	11.72	14.86			Pass

## 802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	4.86	3.06	30	1000	Pass
Middle	5.82	3.82			Pass
High	3.95	2.48			Pass

## 802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	8.24	6.67	30	1000	Pass
Middle	9.07	8.07			Pass
High	7.44	5.55			Pass

## 802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.63	14.55	30	1000	Pass
Middle	12.52	17.86			Pass
High	10.99	12.56			Pass

## 802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.20	52.48	30	1000	Pass
Middle	17.63	57.94			Pass
High	16.62	45.92			Pass



**ANT 1:****Peak Power Test Data****802.11b Mode:**

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	19.03	79.98	30	1000	Pass
CH2	19.68	92.90			Pass
CH3	20.56	113.76			Pass
CH6	19.93	98.40			Pass
CH10	19.30	85.11			Pass
CH11	19.22	83.56			Pass

**802.11g Mode:**

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	19.72	93.76	30	1000	Pass
CH2	20.88	122.46			Pass
CH3	21.42	138.68			Pass
CH4	22.63	183.23			Pass
CH6	22.41	174.18			Pass
CH9	22.10	162.18			Pass
CH10	20.26	106.17			Pass
CH11	19.45	88.10			Pass

**802.11n-20 MHz Mode:**

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	18.57	71.94	30	1000	Pass
CH2	19.72	93.76			Pass
CH3	21.26	133.66			Pass
CH4	21.69	147.57			Pass
CH6	22.20	165.96			Pass
CH9	21.24	133.05			Pass
CH10	19.48	88.72			Pass
CH11	18.20	66.07			Pass

## 802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	17.47	55.85	30	1000	Pass
CH4	17.58	57.28			Pass
CH5	20.02	100.46			Pass
CH6	20.34	108.14			Pass
CH7	20.14	103.28			Pass
CH8	16.23	41.98			Pass
CH9	15.98	39.63			Pass

## VHT20 Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	18.52	71.12	30	1000	Pass
CH2	19.73	93.97			Pass
CH3	21.68	147.23			Pass
CH4	21.46	139.96			Pass
CH5	21.43	139.00			Pass
CH6	22.13	163.31			Pass
CH9	21.20	131.83			Pass
CH10	20.38	109.14			Pass
CH11	18.27	67.14			Pass

## VHT-40 Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	17.45	55.59	30	1000	Pass
CH4	17.64	58.08			Pass
CH5	19.87	97.05			Pass
CH6	19.29	84.92			Pass
CH7	17.66	58.34			Pass
CH8	18.66	73.45			Pass
CH9	15.87	38.64			Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	20.19	104.47	30	1000	Pass
CH2	21.34	136.14			Pass
CH3	22.32	170.61			Pass
CH4	23.80	239.88			Pass
CH5	23.08	203.24			Pass
CH6	23.89	244.91			Pass
CH8	23.57	227.51			Pass
CH9	22.52	178.65			Pass
CH10	21.79	151.01			Pass
CH11	19.83	96.16			Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	18.35	68.39	30	1000	Pass
CH4	19.99	99.77			Pass
CH5	20.87	122.18			Pass
CH6	20.67	116.68			Pass
CH7	19.80	95.50			Pass
CH8	18.55	71.61			Pass
CH9	17.16	52.00			Pass

## 802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.33	13.58	30	1000	Pass
Middle	10.91	12.33			Pass
High	10.96	12.47			Pass

## 802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.89	19.45	30	1000	Pass
Middle	13.44	22.08			Pass
High	13.79	23.93			Pass

## 802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.55	45.19	30	1000	Pass
Middle	16.44	44.06			Pass
High	16.56	45.29			Pass

## 802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.76	11.91	30	1000	Pass
Middle	11.11	12.91			Pass
High	11.16	13.06			Pass

## 802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.45	27.86	30	1000	Pass
Middle	14.74	29.79			Pass
High	13.98	25.00			Pass

## 802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.81	38.11	30	1000	Pass
Middle	16.09	40.64			Pass
High	15.98	39.63			Pass

## 802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.60	91.20	30	1000	Pass
Middle	19.81	95.72			Pass
High	19.27	84.53			Pass

### Average Power Test Data

#### 802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	15.93	39.17	30	1000	Pass
CH2	16.17	41.40			Pass
CH3	17.63	57.94			Pass
CH6	17.02	50.35			Pass
CH10	16.07	40.46			Pass
CH11	16.31	42.76			Pass

#### 802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	14.05	25.41	30	1000	Pass
CH2	14.48	28.05			Pass
CH3	15.85	38.46			Pass
CH4	16.98	49.89			Pass
CH6	16.66	46.34			Pass
CH9	16.48	44.46			Pass
CH10	14.92	31.05			Pass
CH11	13.80	23.99			Pass

#### 802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	12.47	17.66	30	1000	Pass
CH2	13.60	22.91			Pass
CH3	15.07	32.14			Pass
CH4	16.00	39.81			Pass
CH6	16.11	40.83			Pass
CH9	15.42	34.83			Pass
CH10	13.98	25.00			Pass
CH11	12.10	16.22			Pass

## 802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	11.13	12.97	30	1000	Pass
CH4	11.60	14.45			Pass
CH5	13.68	23.33			Pass
CH6	14.00	25.12			Pass
CH7	13.77	23.82			Pass
CH8	10.30	10.72			Pass
CH9	9.63	9.18			Pass

## VHT20 Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	12.43	17.50	30	1000	Pass
CH2	13.67	23.28			Pass
CH3	15.15	32.73			Pass
CH4	15.97	39.54			Pass
CH5	15.84	38.37			Pass
CH6	16.00	39.81			Pass
CH9	15.42	34.83			Pass
CH10	14.09	25.64			Pass
CH11	12.03	15.96			Pass

## VHT-40 Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	11.11	12.91	30	1000	Pass
CH4	11.62	14.52			Pass
CH5	13.22	20.99			Pass
CH6	12.48	17.70			Pass
CH7	11.78	15.07			Pass
CH8	10.37	10.89			Pass
CH9	9.58	9.08			Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	12.67	18.49	30	1000	Pass
CH2	13.92	24.66			Pass
CH3	15.36	34.36			Pass
CH4	16.19	41.59			Pass
CH5	16.06	40.36			Pass
CH6	16.35	43.15			Pass
CH8	16.07	40.46			Pass
CH9	15.63	36.56			Pass
CH10	14.23	26.49			Pass
CH11	12.31	17.02			Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	10.81	12.05	30	1000	Pass
CH4	11.32	13.55			Pass
CH5	12.93	19.63			Pass
CH6	12.17	16.48			Pass
CH7	11.48	14.06			Pass
CH8	10.02	10.05			Pass
CH9	9.60	9.12			Pass

## 802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	4.08	2.56	30	1000	Pass
Middle	4.35	2.72			Pass
High	3.91	2.46			Pass

## 802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.69	5.87	30	1000	Pass
Middle	7.96	6.25			Pass
High	7.53	5.66			Pass

## 802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.14	16.37	30	1000	Pass
Middle	11.88	15.42			Pass
High	11.96	15.70			Pass

## 802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	4.49	2.81	30	1000	Pass
Middle	5.02	3.18			Pass
High	3.94	2.48			Pass

## 802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	8.13	6.50	30	1000	Pass
Middle	8.48	7.05			Pass
High	7.48	5.60			Pass

## 802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.61	14.49	30	1000	Pass
Middle	11.75	14.96			Pass
High	11.08	12.82			Pass

## 802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.99	50.00	30	1000	Pass
Middle	16.88	48.75			Pass
High	16.37	43.35			Pass



MIMO ANT 0:Peak Power Test Data

## 802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	18.78	75.51	30	1000	Pass
CH2	19.86	96.83			Pass
CH3	20.47	111.43			Pass
CH6	20.75	118.85			Pass
CH10	19.09	81.10			Pass
CH11	19.12	81.66			Pass

## 802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	19.51	89.33	30	1000	Pass
CH2	20.13	103.04			Pass
CH3	22.37	172.58			Pass
CH4	22.58	181.13			Pass
CH6	23.25	211.35			Pass
CH9	22.35	171.79			Pass
CH10	20.50	112.20			Pass
CH11	19.28	84.72			Pass

## 802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	18.27	67.14	30	1000	Pass
CH2	19.83	96.16			Pass
CH3	21.09	128.53			Pass
CH4	22.36	172.19			Pass
CH6	23.03	200.91			Pass
CH9	21.05	127.35			Pass
CH10	20.55	113.50			Pass
CH11	17.94	62.23			Pass

## 802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	17.79	60.12	30	1000	Pass
CH4	18.53	71.29			Pass
CH5	20.63	115.61			Pass
CH6	18.98	79.07			Pass
CH7	19.83	96.16			Pass
CH8	17.06	50.82			Pass
CH9	16.13	41.02			Pass

## VHT20 Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	18.29	67.45	30	1000	Pass
CH2	19.85	96.61			Pass
CH3	21.74	149.28			Pass
CH4	22.28	169.04			Pass
CH5	22.29	169.43			Pass
CH6	23.05	201.84			Pass
CH9	21.09	128.53			Pass
CH10	20.57	114.02			Pass
CH11	17.95	62.37			Pass

## VHT40 Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	17.76	59.70	30	1000	Pass
CH4	18.51	70.96			Pass
CH5	20.02	100.46			Pass
CH6	19.56	90.36			Pass
CH7	19.28	84.72			Pass
CH8	18.63	72.95			Pass
CH9	16.15	41.21			Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	19.84	96.38	30	1000	Pass
CH2	20.88	122.46			Pass
CH3	22.22	166.72			Pass
CH4	23.51	224.39			Pass
CH5	23.90	245.47			Pass
CH6	24.17	261.22			Pass
CH8	24.20	263.03			Pass
CH9	22.83	191.87			Pass
CH10	21.71	148.25			Pass
CH11	19.55	90.16			Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	18.65	73.28	30	1000	Pass
CH4	20.02	100.46			Pass
CH5	21.04	127.06			Pass
CH6	20.49	111.94			Pass
CH7	20.31	107.40			Pass
CH8	18.62	72.78			Pass
CH9	17.12	51.52			Pass

## 802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.34	13.61	30	1000	Pass
Middle	11.97	15.74			Pass
High	11.65	14.62			Pass

## 802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.29	21.33	30	1000	Pass
Middle	14.22	26.42			Pass
High	13.49	22.34			Pass

## 802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.36	43.25	30	1000	Pass
Middle	17.55	56.89			Pass
High	17.07	50.93			Pass

## 802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.94	15.63	30	1000	Pass
Middle	13.04	20.14			Pass
High	11.37	13.71			Pass

## 802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.16	32.81	30	1000	Pass
Middle	15.22	33.27			Pass
High	14.45	27.86			Pass

## 802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.51	44.77	30	1000	Pass
Middle	16.51	44.77			Pass
High	16.15	41.21			Pass

## 802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.96	99.08	30	1000	Pass
Middle	20.35	108.39			Pass
High	19.79	95.28			Pass

### Average Power Test Data

#### 802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	15.76	37.67	30	1000	Pass
CH2	16.18	41.50			Pass
CH3	17.55	56.89			Pass
CH6	17.86	61.09			Pass
CH10	16.16	41.30			Pass
CH11	15.96	39.45			Pass

#### 802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	13.22	20.99	30	1000	Pass
CH2	14.58	28.71			Pass
CH3	16.49	44.57			Pass
CH4	16.42	43.85			Pass
CH6	17.05	50.70			Pass
CH9	16.12	40.93			Pass
CH10	14.97	31.41			Pass
CH11	12.87	19.36			Pass

#### 802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	12.04	16.00	30	1000	Pass
CH2	13.64	23.12			Pass
CH3	15.62	36.48			Pass
CH4	16.82	48.08			Pass
CH6	16.91	49.09			Pass
CH9	15.63	36.56			Pass
CH10	14.00	25.12			Pass
CH11	11.69	14.76			Pass

## 802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	10.98	12.53	30	1000	Pass
CH4	12.33	17.10			Pass
CH5	14.29	26.85			Pass
CH6	12.22	16.67			Pass
CH7	13.50	22.39			Pass
CH8	10.76	11.91			Pass
CH9	8.87	7.71			Pass

## VHT20 Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	11.86	15.35	30	1000	Pass
CH2	13.62	23.01			Pass
CH3	15.61	36.39			Pass
CH4	16.79	47.75			Pass
CH5	16.69	46.67			Pass
CH6	16.96	49.66			Pass
CH9	15.64	36.64			Pass
CH10	14.00	25.12			Pass
CH11	11.80	15.14			Pass

## VHT40 Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	10.89	12.27	30	1000	Pass
CH4	12.29	16.94			Pass
CH5	13.88	24.43			Pass
CH6	13.28	21.28			Pass
CH7	12.57	18.07			Pass
CH8	10.73	11.83			Pass
CH9	9.86	9.68			Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	12.31	17.02	30	1000	Pass
CH2	13.88	24.43			Pass
CH3	15.83	38.28			Pass
CH4	16.99	50.00			Pass
CH5	16.87	48.64			Pass
CH6	16.89	48.87			Pass
CH8	16.55	45.19			Pass
CH9	15.85	38.46			Pass
CH10	14.19	26.24			Pass
CH11	12.04	16.00			Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	11.08	12.82	30	1000	Pass
CH4	11.98	15.78			Pass
CH5	13.55	22.65			Pass
CH6	12.96	19.77			Pass
CH7	12.24	16.75			Pass
CH8	10.39	10.94			Pass
CH9	9.48	8.87			Pass

## 802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	4.53	2.84	30	1000	Pass
Middle	5.65	3.67			Pass
High	4.34	2.72			Pass

## 802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	8.03	6.35	30	1000	Pass
Middle	9.14	8.20			Pass
High	7.93	6.21			Pass

## 802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.22	16.67	30	1000	Pass
Middle	13.33	21.53			Pass
High	12.14	16.37			Pass

## 802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	5.29	3.38	30	1000	Pass
Middle	6.19	4.16			Pass
High	4.43	2.77			Pass

## 802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	5.29	3.38	30	1000	Pass
Middle	6.19	4.16			Pass
High	4.43	2.77			Pass

## 802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.20	16.60	30	1000	Pass
Middle	12.99	19.91			Pass
High	11.47	14.03			Pass

## 802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.66	58.34	30	1000	Pass
Middle	18.04	63.68			Pass
High	16.99	50.00			Pass



MIMO ANT 1:Peak Power Test Data

## 802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	19.29	84.92	30	1000	Pass
CH2	19.86	96.83			Pass
CH3	20.88	122.46			Pass
CH6	20.23	105.44			Pass
CH10	19.26	84.33			Pass
CH11	19.63	91.83			Pass

## 802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	19.97	99.31	30	1000	Pass
CH2	20.20	104.71			Pass
CH3	22.06	160.69			Pass
CH4	22.92	195.88			Pass
CH6	22.51	178.24			Pass
CH9	22.53	179.06			Pass
CH10	21.59	144.21			Pass
CH11	19.89	97.50			Pass

## 802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	19.14	82.04	30	1000	Pass
CH2	20.22	105.20			Pass
CH3	21.10	128.82			Pass
CH4	22.06	160.69			Pass
CH6	22.59	181.55			Pass
CH9	21.57	143.55			Pass
CH10	20.21	104.95			Pass
CH11	18.86	76.91			Pass

## 802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	17.91	61.80	30	1000	Pass
CH4	18.58	72.11			Pass
CH5	20.43	110.41			Pass
CH6	18.73	74.64			Pass
CH7	19.60	91.20			Pass
CH8	18.15	65.31			Pass
CH9	16.28	42.46			Pass

## VHT20 Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	18.81	76.03	30	1000	Pass
CH2	19.86	96.83			Pass
CH3	21.40	138.04			Pass
CH4	21.79	151.01			Pass
CH5	21.65	146.22			Pass
CH6	22.40	173.78			Pass
CH9	21.16	130.62			Pass
CH10	20.92	123.59			Pass
CH11	18.65	73.28			Pass

## VHT40 Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	17.60	57.54	30	1000	Pass
CH4	18.33	68.08			Pass
CH5	19.16	82.41			Pass
CH6	19.04	80.17			Pass
CH7	18.78	75.51			Pass
CH8	18.51	70.96			Pass
CH9	16.19	41.59			Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	20.38	109.14	30	1000	Pass
CH2	20.08	101.86			Pass
CH3	22.00	158.49			Pass
CH4	23.14	206.06			Pass
CH5	22.28	169.04			Pass
CH6	24.08	255.86			Pass
CH8	23.77	238.23			Pass
CH9	22.75	188.36			Pass
CH10	21.82	152.05			Pass
CH11	20.08	101.86			Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	18.40	69.18	30	1000	Pass
CH4	18.42	69.50			Pass
CH5	19.51	89.33			Pass
CH6	19.85	96.61			Pass
CH7	18.64	73.11			Pass
CH8	18.27	67.14			Pass
CH9	16.97	49.77			Pass

## 802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.08	12.82	30	1000	Pass
Middle	10.83	12.11			Pass
High	10.54	11.32			Pass

## 802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	13.65	23.17	30	1000	Pass
Middle	13.39	21.83			Pass
High	13.30	21.38			Pass

## 802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.61	45.81	30	1000	Pass
Middle	16.53	44.98			Pass
High	16.54	45.08			Pass

## 802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.16	13.06	30	1000	Pass
Middle	10.71	11.78			Pass
High	10.95	12.45			Pass

## 802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.11	25.76	30	1000	Pass
Middle	13.92	24.66			Pass
High	13.83	24.15			Pass

## 802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.32	42.85	30	1000	Pass
Middle	15.89	38.82			Pass
High	15.91	38.99			Pass

## 802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.68	92.90	30	1000	Pass
Middle	19.62	91.62			Pass
High	19.12	81.66			Pass

### Average Power Test Data

#### 802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	16.32	42.85	30	1000	Pass
CH2	16.18	41.50			Pass
CH3	17.87	61.24			Pass
CH6	17.34	54.20			Pass
CH10	16.08	40.55			Pass
CH11	16.70	46.77			Pass

#### 802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	13.84	24.21	30	1000	Pass
CH2	14.45	27.86			Pass
CH3	15.81	38.11			Pass
CH4	17.90	61.66			Pass
CH6	17.50	56.23			Pass
CH9	16.73	47.10			Pass
CH10	14.87	30.69			Pass
CH11	13.58	22.80			Pass

#### 802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	12.74	18.79	30	1000	Pass
CH2	13.55	22.65			Pass
CH3	14.96	31.33			Pass
CH4	15.83	38.28			Pass
CH6	16.24	42.07			Pass
CH9	15.32	34.04			Pass
CH10	14.00	25.12			Pass
CH11	12.46	17.62			Pass

## 802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	11.21	13.21	30	1000	Pass
CH4	11.55	14.29			Pass
CH5	13.89	24.49			Pass
CH6	12.03	15.96			Pass
CH7	13.05	20.18			Pass
CH8	10.31	10.74			Pass
CH9	9.95	9.89			Pass

## VHT20 Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	12.72	18.71	30	1000	Pass
CH2	13.58	22.80			Pass
CH3	15.03	31.84			Pass
CH4	15.84	38.37			Pass
CH5	15.64	36.64			Pass
CH6	16.34	43.05			Pass
CH9	15.33	34.12			Pass
CH10	14.00	25.12			Pass
CH11	12.53	17.91			Pass

## VHT40 Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	12.72	18.71	30	1000	Pass
CH4	13.58	22.80			Pass
CH5	15.03	31.84			Pass
CH6	15.84	38.37			Pass
CH7	15.64	36.64			Pass
CH8	16.34	43.05			Pass
CH9	15.33	34.12			Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	14.00	25.12	30	1000	Pass
CH2	12.53	17.91			Pass
CH3	15.25	33.50			Pass
CH4	16.00	39.81			Pass
CH5	15.82	38.19			Pass
CH6	16.55	45.19			Pass
CH8	16.31	42.76			Pass
CH9	15.53	35.73			Pass
CH10	14.20	26.30			Pass
CH11	12.52	17.86			Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	10.87	12.22	30	1000	Pass
CH4	11.21	13.21			Pass
CH5	12.72	18.71			Pass
CH6	12.04	16.00			Pass
CH7	11.47	14.03			Pass
CH8	9.98	9.95			Pass
CH9	9.42	8.75			Pass

## 802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	4.11	2.58	30	1000	Pass
Middle	4.16	2.61			Pass
High	3.83	2.42			Pass

## 802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.63	5.79	30	1000	Pass
Middle	7.62	5.78			Pass
High	7.47	5.58			Pass

## 802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.13	16.33	30	1000	Pass
Middle	11.88	15.42			Pass
High	11.84	15.28			Pass

## 802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	4.25	2.66	30	1000	Pass
Middle	4.65	2.92			Pass
High	3.77	2.38			Pass

## 802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.68	5.86	30	1000	Pass
Middle	7.94	6.22			Pass
High	7.30	5.37			Pass

## 802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.52	14.19	30	1000	Pass
Middle	11.59	14.42			Pass
High	10.87	12.22			Pass

## 802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.79	47.75	30	1000	Pass
Middle	16.68	46.56			Pass
High	16.21	41.78			Pass



MIMO:Peak Power Test Data

## 802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	22.05	160.43	30	1000	Pass
CH2	22.87	193.66			Pass
CH3	23.69	233.89			Pass
CH6	23.51	224.29			Pass
CH10	22.19	165.43			Pass
CH11	22.39	173.49			Pass

## 802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	22.76	188.64	30	1000	Pass
CH2	23.18	207.75			Pass
CH3	25.23	333.28			Pass
CH4	25.76	377.02			Pass
CH6	25.91	389.59			Pass
CH9	25.45	350.85			Pass
CH10	24.09	256.41			Pass
CH11	22.61	182.22			Pass

## 802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	21.74	149.18	30	1000	Pass
CH2	23.04	201.36			Pass
CH3	24.11	257.35			Pass
CH4	25.22	332.88			Pass
CH6	25.83	382.46			Pass
CH9	24.33	270.90			Pass
CH10	23.39	218.46			Pass
CH11	21.43	139.14			Pass

## 802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	20.86	121.92	30	1000	Pass
CH4	21.57	143.40			Pass
CH5	23.54	226.02			Pass
CH6	21.87	153.71			Pass
CH7	22.73	187.36			Pass
CH8	20.65	116.13			Pass
CH9	19.22	83.48			Pass

## VHT20 Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	21.57	143.49	30	1000	Pass
CH2	22.87	193.43			Pass
CH3	24.58	287.32			Pass
CH4	25.05	320.05			Pass
CH5	24.99	315.65			Pass
CH6	25.75	375.62			Pass
CH9	24.14	259.15			Pass
CH10	23.76	237.62			Pass
CH11	21.32	135.66			Pass

## VHT40 Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	20.69	117.25	30	1000	Pass
CH4	21.43	139.03			Pass
CH5	22.62	182.88			Pass
CH6	22.32	170.53			Pass
CH7	22.05	160.23			Pass
CH8	21.58	143.90			Pass
CH9	19.18	82.80			Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	23.13	205.53	30	1000	Pass
CH2	23.51	224.32			Pass
CH3	25.12	325.21			Pass
CH4	26.34	430.45			Pass
CH5	26.18	414.51			Pass
CH6	27.14	517.07			Pass
CH8	27.00	501.26			Pass
CH9	25.80	380.23			Pass
CH10	24.78	300.31			Pass
CH11	22.83	192.02			Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	21.54	142.47	30	1000	Pass
CH4	22.30	169.96			Pass
CH5	23.35	216.39			Pass
CH6	23.19	208.55			Pass
CH7	22.57	180.51			Pass
CH8	21.46	139.92			Pass
CH9	20.06	101.30			Pass

## 802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.22	26.44	30	1000	Pass
Middle	14.45	27.85			Pass
High	14.14	25.95			Pass

## 802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	16.48	44.50	30	1000	Pass
Middle	16.84	48.25			Pass
High	16.41	43.72			Pass

## 802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.50	89.07	30	1000	Pass
Middle	20.08	101.86			Pass
High	19.82	96.01			Pass

## 802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.58	28.69	30	1000	Pass
Middle	15.04	31.91			Pass
High	14.18	26.15			Pass

## 802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.68	58.57	30	1000	Pass
Middle	17.63	57.93			Pass
High	17.16	52.02			Pass

## 802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.43	87.63	30	1000	Pass
Middle	19.22	83.59			Pass
High	19.04	80.20			Pass

## 802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.83	191.98	30	1000	Pass
Middle	23.01	200.01			Pass
High	22.48	176.94			Pass

### Average Power Test Data

#### 802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	19.06	80.54	30	1000	Pass
CH2	19.19	82.99			Pass
CH3	20.72	118.03			Pass
CH6	20.62	115.35			Pass
CH10	19.13	81.85			Pass
CH11	19.36	86.30			Pass

#### 802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	16.55	45.19	30	1000	Pass
CH2	17.53	56.62			Pass
CH3	19.17	82.60			Pass
CH4	20.23	105.44			Pass
CH6	20.29	106.91			Pass
CH9	19.45	88.10			Pass
CH10	17.93	62.09			Pass
CH11	16.25	42.17			Pass

#### 802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	15.41	34.75	30	1000	Pass
CH2	16.61	45.81			Pass
CH3	18.31	67.76			Pass
CH4	19.36	86.30			Pass
CH6	19.60	91.20			Pass
CH9	18.49	70.63			Pass
CH10	17.01	50.23			Pass
CH11	15.10	32.36			Pass

## 802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	14.11	25.76	30	1000	Pass
CH4	14.97	31.41			Pass
CH5	17.10	51.29			Pass
CH6	15.14	32.66			Pass
CH7	16.29	42.56			Pass
CH8	13.55	22.65			Pass
CH9	12.45	17.58			Pass

## VHT-20MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	15.32	34.04	30	1000	Pass
CH2	16.61	45.81			Pass
CH3	18.34	68.23			Pass
CH4	19.35	86.10			Pass
CH5	19.21	83.37			Pass
CH6	19.67	92.68			Pass
CH9	18.50	70.79			Pass
CH10	17.01	50.23			Pass
CH11	15.19	33.04			Pass

## VHT-40MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	14.91	30.97	30	1000	Pass
CH4	15.99	39.72			Pass
CH5	17.50	56.23			Pass
CH6	17.76	59.70			Pass
CH7	17.38	54.70			Pass
CH8	17.39	54.83			Pass
CH9	16.41	43.75			Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH1	16.25	42.17	30	1000	Pass
CH2	16.27	42.36			Pass
CH3	18.56	71.78			Pass
CH4	19.53	89.74			Pass
CH5	19.39	86.90			Pass
CH6	19.73	93.97			Pass
CH8	19.44	87.90			Pass
CH9	18.70	74.13			Pass
CH10	17.21	52.60			Pass
CH11	15.30	33.88			Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
CH3	13.99	25.06	30	1000	Pass
CH4	14.62	28.97			Pass
CH5	16.17	41.40			Pass
CH6	15.53	35.73			Pass
CH7	14.88	30.76			Pass
CH8	13.20	20.89			Pass
CH9	12.46	17.62			Pass

## 802.11ax-20 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.34	5.41	30	1000	Pass
Middle	7.98	6.28			Pass
High	7.10	5.13			Pass

## 802.11ax-20 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	10.84	12.15	30	1000	Pass
Middle	11.46	13.98			Pass
High	10.72	11.79			Pass

## 802.11ax-20 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.19	33.00	30	1000	Pass
Middle	15.68	36.94			Pass
High	15.00	31.64			Pass

## 802.11ax-40 MHz(RU26) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	7.81	6.04	30	1000	Pass
Middle	8.50	7.08			Pass
High	7.12	5.16			Pass

## 802.11ax-40 MHz(RU52) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	11.29	13.46	30	1000	Pass
Middle	11.80	15.14			Pass
High	10.60	11.49			Pass

## 802.11ax-40 MHz(RU106) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.88	30.79	30	1000	Pass
Middle	15.36	34.33			Pass
High	14.19	26.25			Pass

## 802.11ax-40 MHz(RU242) Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.26	106.10	30	1000	Pass
Middle	20.42	110.24			Pass
High	19.63	91.79			Pass



## A.2 Occupied Bandwidth

Note 1: All antenna were tested, but only the worst case has been reported in this report.

Note 2: All the configurations were pre tested, only the worst configuration has been reported in this report.

### Test Data

#### ANT 0:

##### 802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	8.20	13.10	≥500
CH6	8.20	13.10	≥500
CH11	8.20	13.11	≥500

##### 802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	15.30	16.47	≥500
CH6	15.40	16.48	≥500
CH11	15.30	16.47	≥500

##### 802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	15.20	17.66	≥500
CH6	15.30	17.69	≥500
CH11	15.30	17.66	≥500

##### 802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH3	34.00	35.84	≥500
CH6	35.20	35.92	≥500
CH9	33.90	35.94	≥500

##### VHT20 Mode

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	15.20	17.63	≥500
CH6	15.20	17.66	≥500
CH11	15.30	17.63	≥500

## VHT40 Mode

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH3	34.30	35.86	≥500
CH6	35.30	35.90	≥500
CH9	35.20	35.95	≥500

## 802.11ax-20 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	15.80	18.94	≥500
CH6	16.40	18.95	≥500
CH11	16.00	18.91	≥500

## 802.11ax-40 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH3	35.40	37.57	≥500
CH6	34.50	37.64	≥500
CH9	35.50	37.63	≥500

ANT 1:

## 802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	7.70	13.04	≥500
CH6	8.20	13.13	≥500
CH11	7.70	13.07	≥500

## 802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	15.30	16.44	≥500
CH6	15.30	16.51	≥500
CH11	15.30	16.48	≥500

## 802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	15.30	17.62	≥500
CH6	15.30	17.70	≥500
CH11	15.30	17.63	≥500

## 802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH3	35.20	35.84	$\geq 500$
CH6	35.20	35.74	$\geq 500$
CH9	35.30	35.91	$\geq 500$

## VHT20 Mode

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	15.30	17.62	$\geq 500$
CH6	15.30	17.66	$\geq 500$
CH11	14.10	17.63	$\geq 500$

## VHT40 Mode

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH3	35.20	35.81	$\geq 500$
CH6	35.20	35.97	$\geq 500$
CH9	35.00	5.94	$\geq 500$

## 802.11ax-20 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH1	15.20	18.88	$\geq 500$
CH6	16.50	18.93	$\geq 500$
CH11	16.30	18.92	$\geq 500$

## 802.11ax-40 MHz(SU) Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
CH3	35.20	37.57	$\geq 500$
CH6	35.60	37.67	$\geq 500$
CH9	35.50	37.54	$\geq 500$

Test Plots

ANT 0:

6 dB Bandwidth

802.11b CH1



802.11b CH6



802.11b CH11



802.11g CH1



802.11g CH6



802.11g CH11

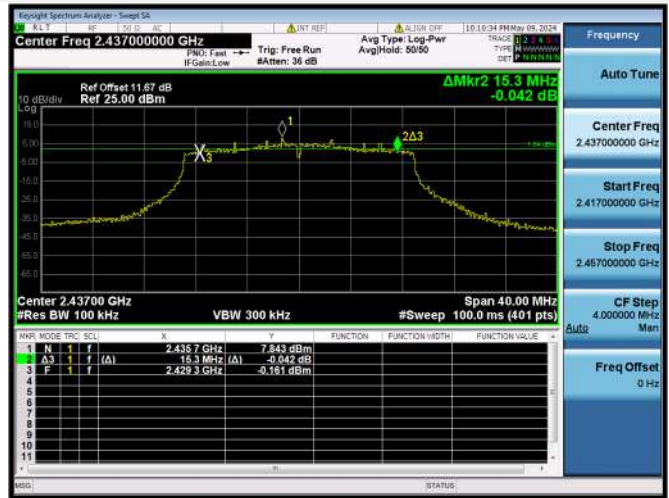




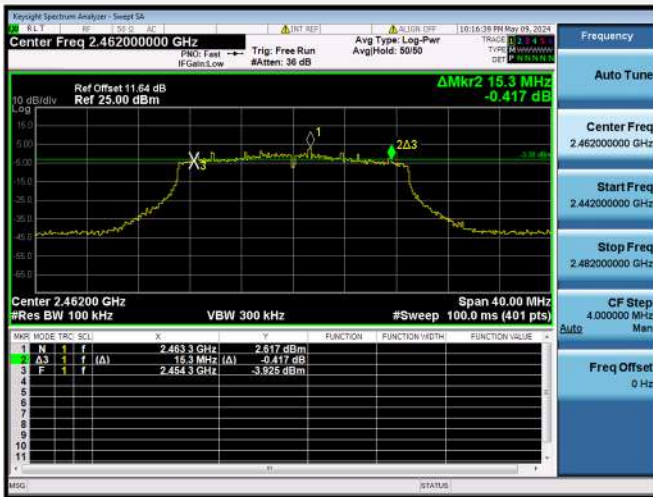
802.11n-20 MHz CH1



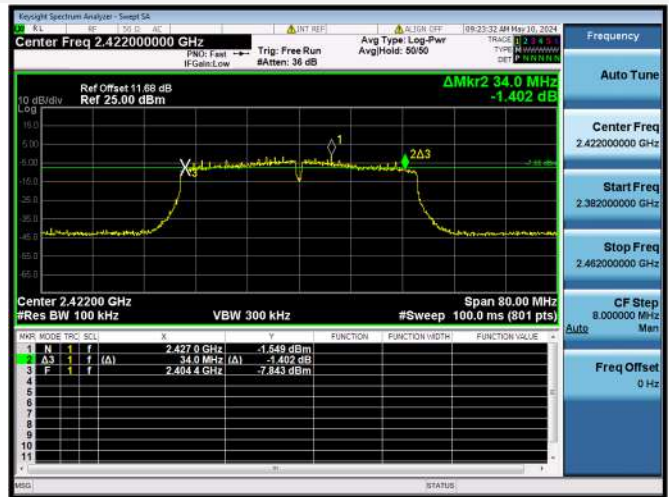
802.11n-20 MHz CH6



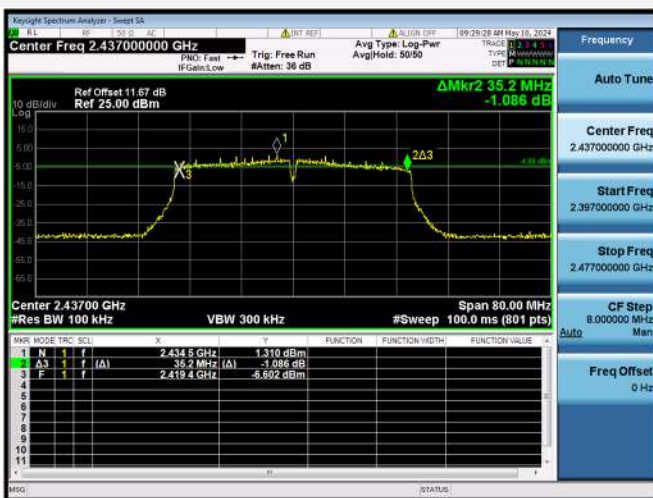
802.11n-20 MHz CH11



802.11n-40 MHz CH3



802.11n-40 MHz CH6



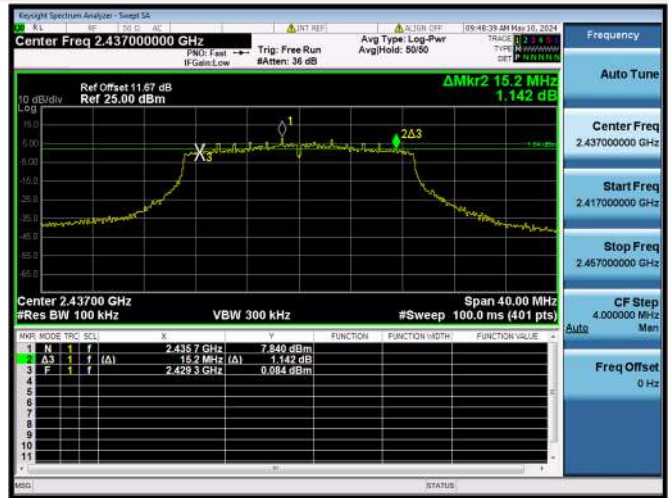
802.11n-40 MHz CH9



VHT20 CH1



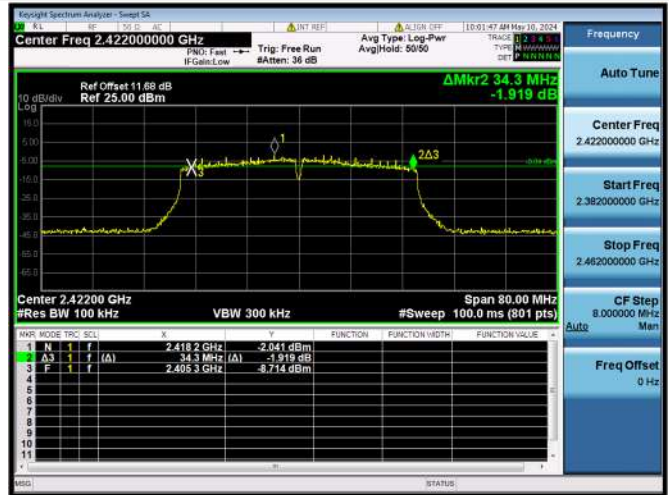
VHT20 CH6



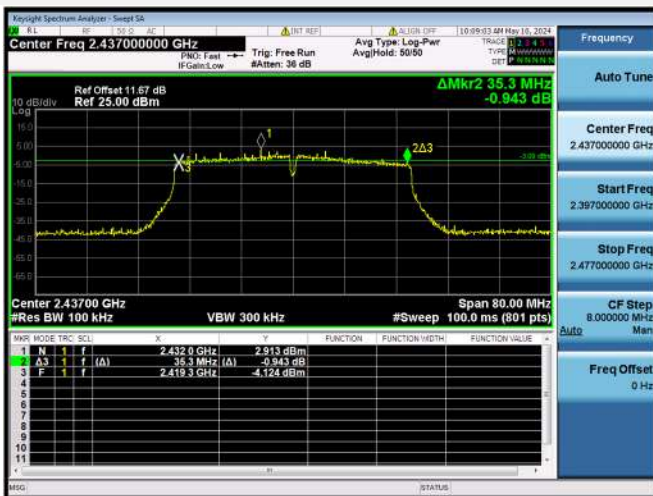
VHT20 CH11



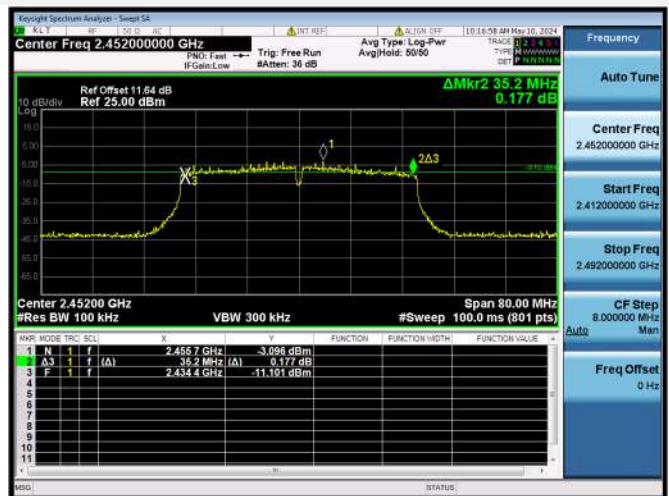
VHT40 CH3



VHT40 CH6



VHT40 CH9

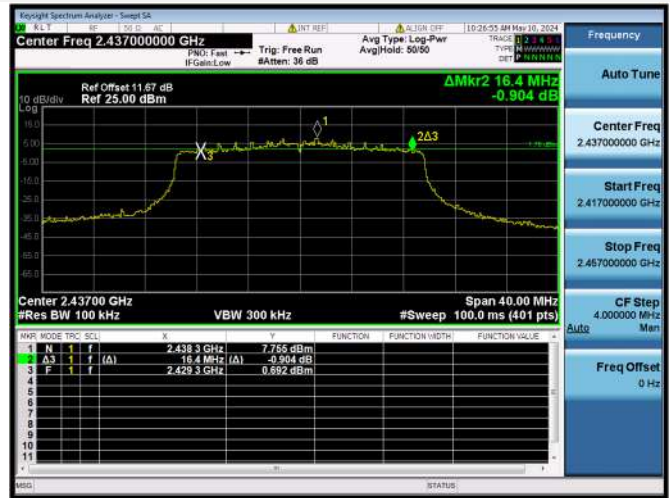




802.11ax-20 MHz(SU) CH1



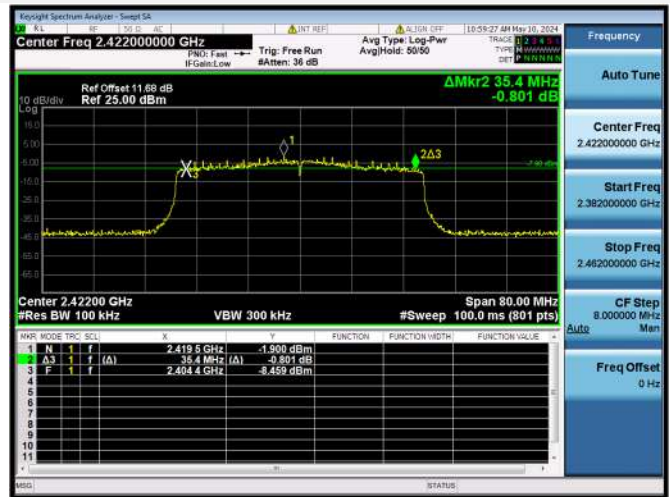
802.11ax-20 MHz(SU) CH6



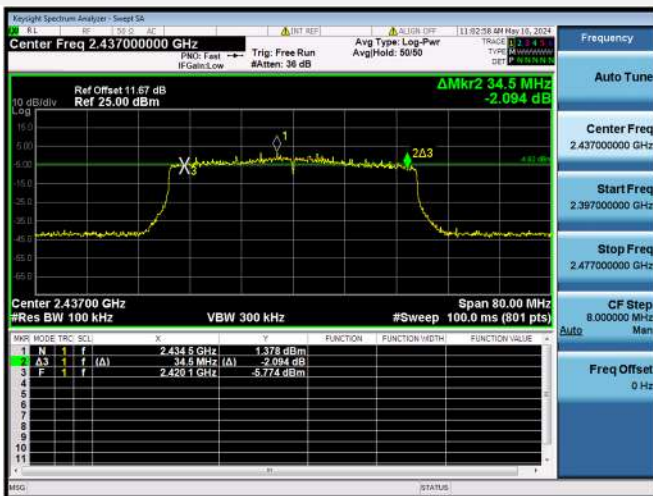
802.11ax-20 MHz(SU) CH11



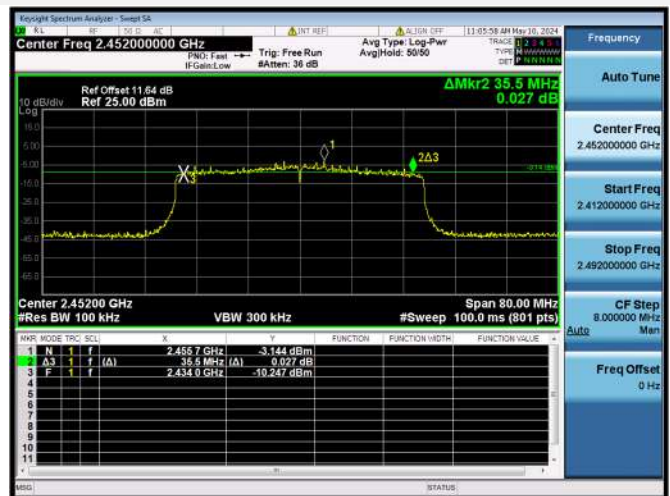
802.11ax-40 MHz(SU) CH3



802.11ax-40 MHz(SU) CH6



802.11ax-40 MHz(SU) CH9



99% Bandwidth

802.11b CH1



802.11b CH6



802.11b CH11



802.11g CH1



802.11g CH6



802.11g CH11





802.11n-20 MHz CH1



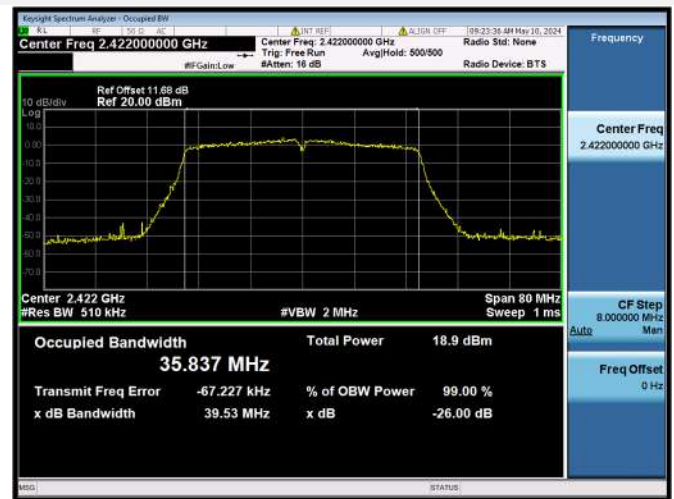
802.11n-20 MHz CH6



802.11n-20 MHz CH11



802.11n-40 MHz CH3



802.11n-40 MHz CH6



802.11n-40 MHz CH9



VHT20 CH1



VHT20 CH6



VHT20 CH11



VHT40 CH3



VHT40 CH6



VHT40 CH9





802.11ax-20 MHz(SU) CH1



802.11ax-20 MHz(SU) CH6



802.11ax-20 MHz(SU) CH11



802.11ax-40 MHz(SU) CH3



802.11ax-40 MHz(SU) CH6



802.11ax-40 MHz(SU) CH9

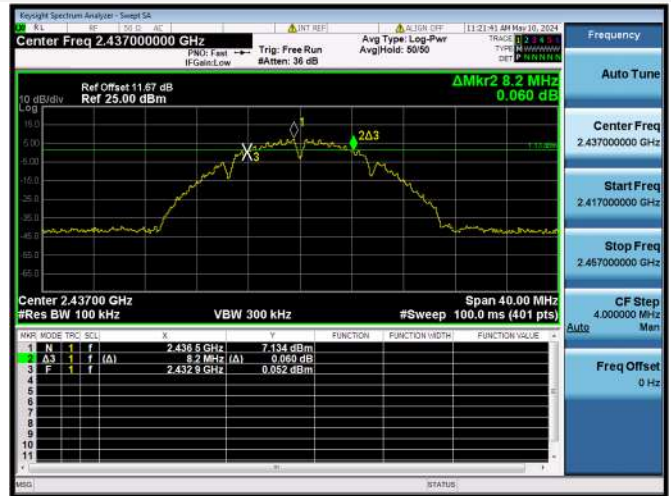


**ANT 1:**  
**6 dB Bandwidth**

802.11b CH1



802.11b CH6



802.11b CH11



802.11g CH1



802.11g CH6



802.11g CH11

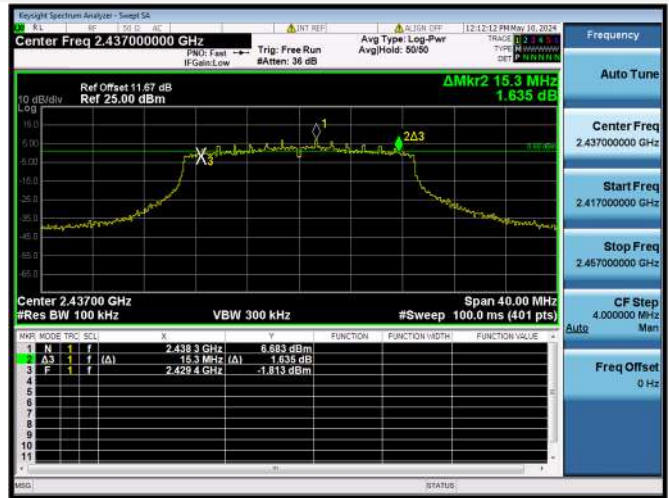




802.11n-20 MHz CH1



802.11n-20 MHz CH6



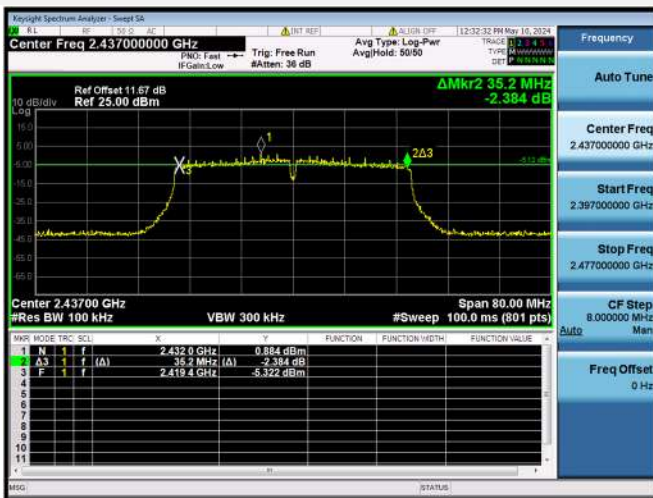
802.11n-20 MHz CH11



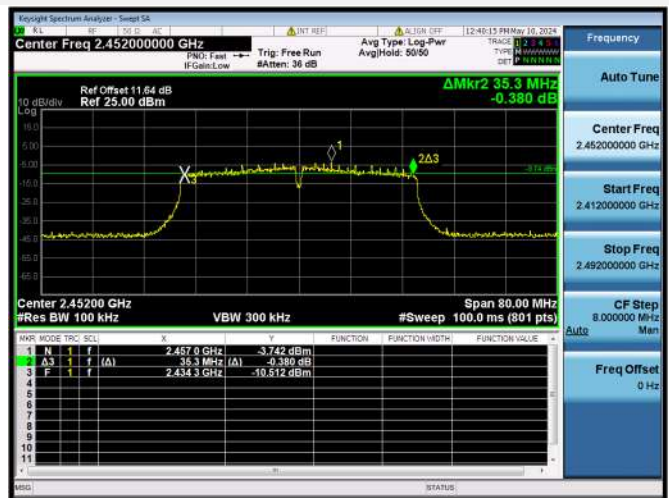
802.11n-40 MHz CH3



802.11n-40 MHz CH6



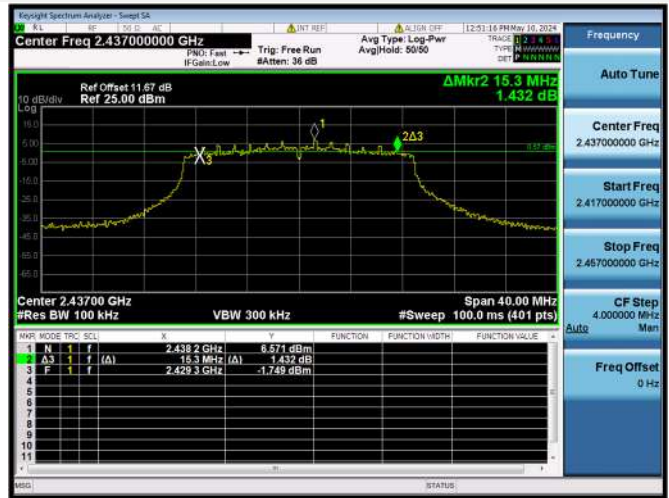
802.11n-40 MHz CH9



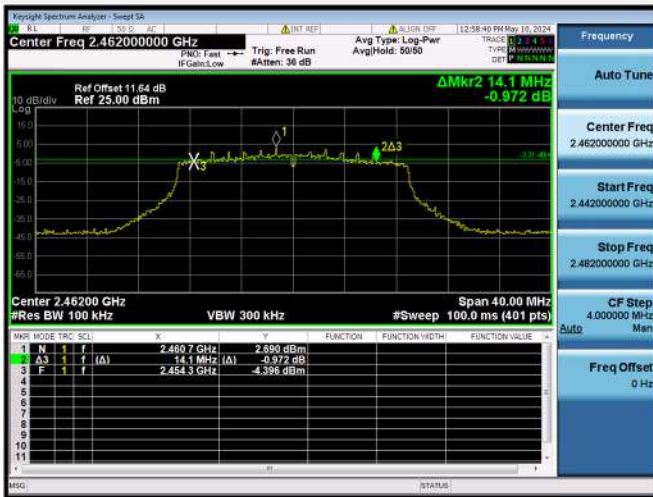
VHT20 CH1



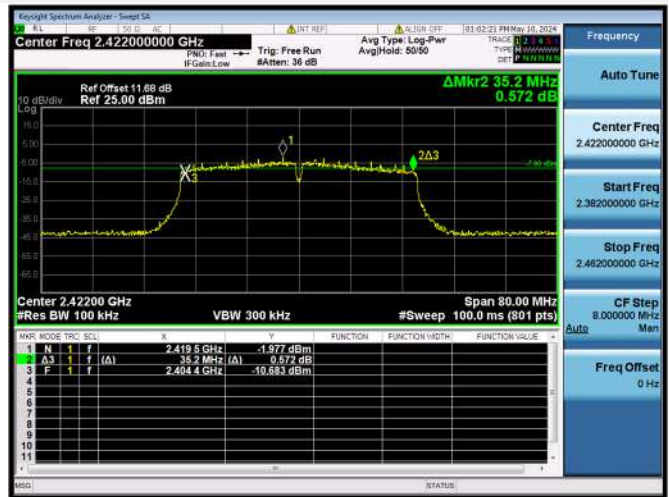
VHT20 CH6



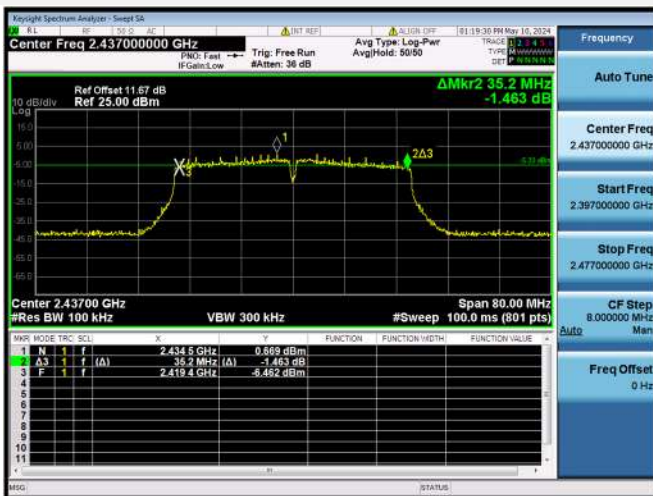
VHT20 CH11



VHT40 CH3



VHT40 CH6



VHT40 CH9

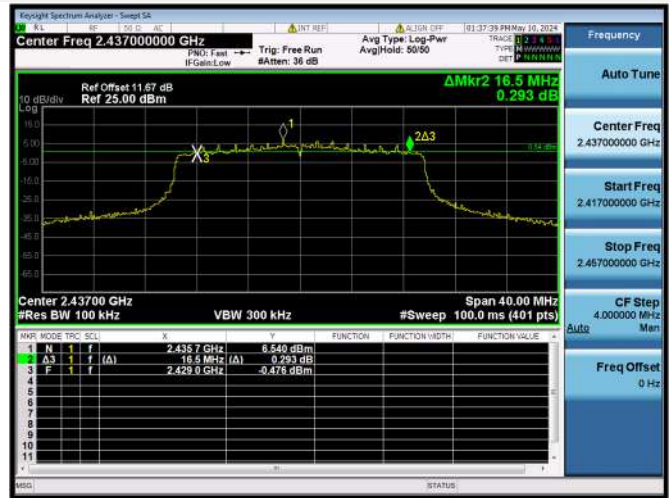




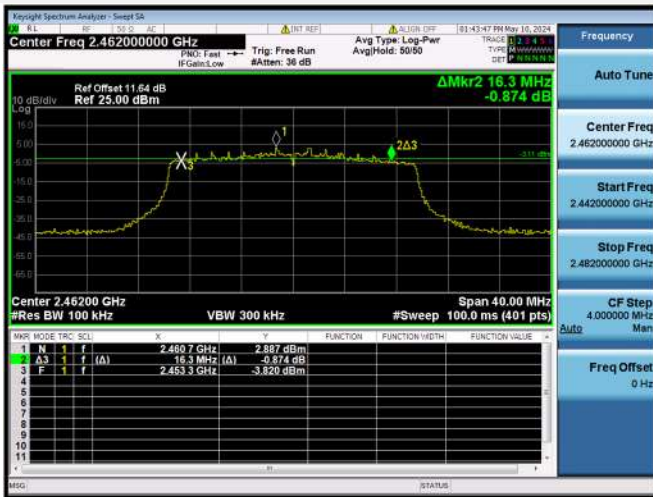
802.11ax-20 MHz(SU) CH1



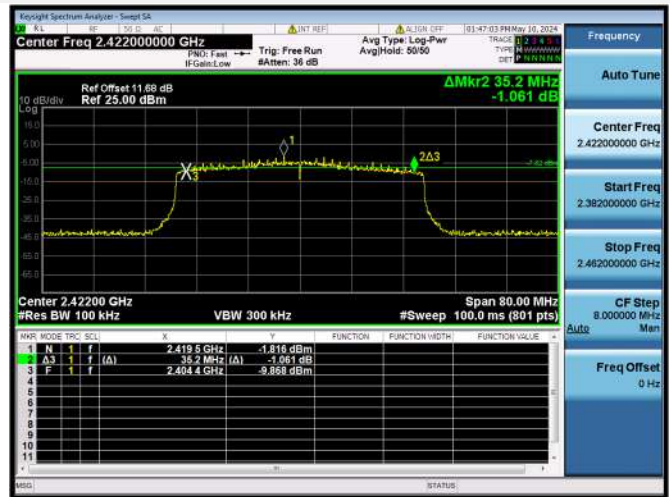
802.11ax-20 MHz(SU) CH6



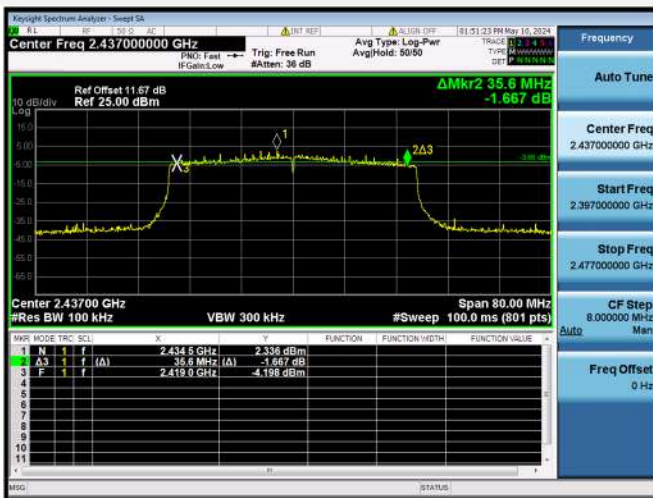
802.11ax-20 MHz(SU) CH11



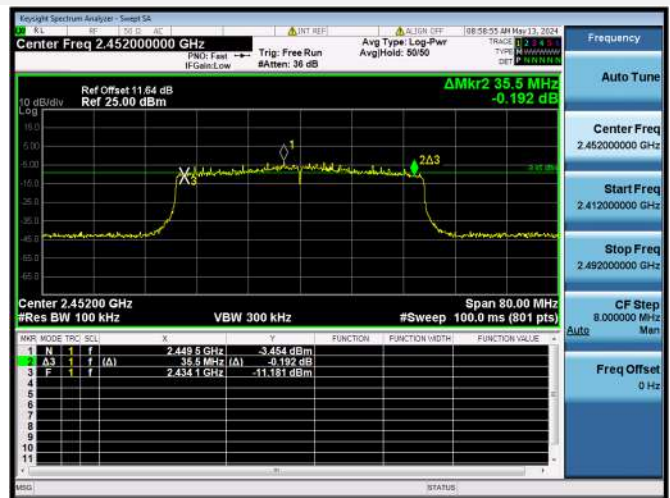
802.11ax-40 MHz(SU) CH3



802.11ax-40 MHz(SU) CH6



802.11ax-40 MHz(SU) CH9



99% Bandwidth

802.11b CH1



802.11b CH6



802.11b CH11



802.11g CH1



802.11g CH6



802.11g CH11





802.11n-20 MHz CH1



802.11n-20 MHz CH6



802.11n-20 MHz CH11



802.11n-40 MHz CH3



802.11n-40 MHz CH6



802.11n-40 MHz CH9



VHT20 CH1



VHT20 CH6



VHT20 CH11



VHT40 CH3



VHT40 CH6



VHT40 CH9





802.11ax-20 MHz(SU) CH1



802.11ax-20 MHz(SU) CH6



802.11ax-20 MHz(SU) CH11



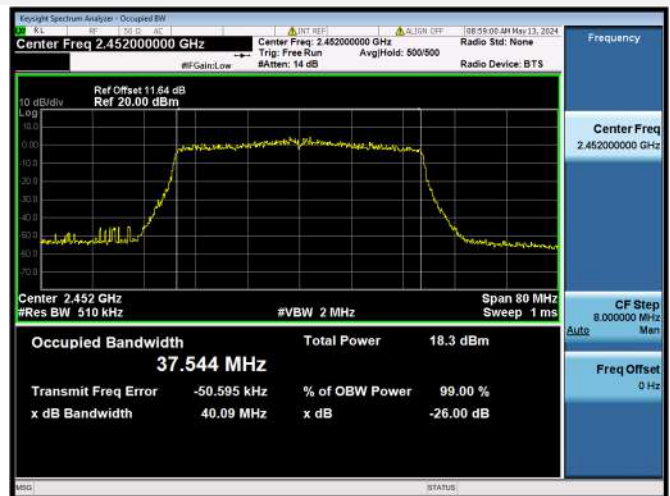
802.11ax-40 MHz(SU) CH3



802.11ax-40 MHz(SU) CH6



802.11ax-40 MHz(SU) CH9



### A.3 Conducted Spurious Emissions

Note: All the configurations were pre tested, only the worst configuration has been reported in this report.

#### Test Data

##### ANT 0:

##### 802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-30.45	8.13	-11.87	Pass
Middle	-32.74	10.46	-9.54	Pass
High	-32.36	8.68	-11.32	Pass

##### 802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.04	4.66	-15.34	Pass
Middle	-33.10	8.43	-11.57	Pass
High	-33.21	4.46	-15.54	Pass

##### 802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.31	3.36	-16.64	Pass
Middle	-33.06	8.53	-11.47	Pass
High	-32.25	3.01	-16.99	Pass

##### 802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.96	-1.17	-21.17	Pass
Middle	-31.09	1.43	-18.57	Pass
High	-30.99	-2.77	-22.77	Pass

## VHT20 Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-30.83	3.56	-16.44	Pass
Middle	-30.01	7.93	-12.07	Pass
High	-31.85	3.40	-16.60	Pass

## VHT40 Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-30.33	-1.30	-21.30	Pass
Middle	-30.86	3.07	-16.93	Pass
High	-30.51	-2.78	-22.78	Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.83	3.67	-16.33	Pass
Middle	-32.16	8.52	-11.48	Pass
High	-31.70	2.82	-17.18	Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-32.42	-1.22	-21.22	Pass
Middle	-30.77	1.50	-18.50	Pass
High	-31.18	-2.98	-22.98	Pass

**ANT 1:****802.11b Mode:**

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-32.11	4.83	-15.17	Pass
Middle	-30.51	7.52	-12.48	Pass
High	-31.29	4.58	-15.42	Pass

**802.11g Mode:**

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-32.11	4.83	-15.17	Pass
Middle	-30.51	7.52	-12.48	Pass
High	-31.29	4.58	-15.42	Pass

**802.11n-20MHz Mode:**

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.92	3.46	-16.55	Pass
Middle	-30.98	6.55	-13.45	Pass
High	-31.43	3.33	-16.67	Pass

**802.11n-40MHz Mode:**

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-32.02	3.73	-16.27	Pass
Middle	-31.43	7.37	-12.63	Pass
High	-32.74	3.12	-16.88	Pass

## VHT20 Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-32.02	3.73	-16.27	Pass
Middle	-31.43	7.37	-12.63	Pass
High	-32.74	3.12	-16.88	Pass

## VHT40 Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.47	-1.83	-21.83	Pass
Middle	-30.99	0.97	-19.03	Pass
High	-31.97	-5.32	-25.32	Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-30.72	3.71	-16.29	Pass
Middle	-31.14	6.48	-13.52	Pass
High	-32.26	2.95	-17.05	Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.47	-1.76	-21.76	Pass
Middle	-31.16	1.23	-18.77	Pass
High	-30.80	-3.00	-23.00	Pass

**MIMO ANT 0:****802.11b Mode:**

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-32.11	4.83	-15.17	Pass
Middle	-30.51	7.52	-12.48	Pass
High	-31.29	4.58	-15.42	Pass

**802.11g Mode:**

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-30.68	4.81	-15.19	Pass
Middle	-31.91	8.22	-11.78	Pass
High	-31.40	3.85	-16.15	Pass

**802.11n-20MHz Mode:**

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-30.56	3.46	-16.54	Pass
Middle	-30.06	7.14	-12.86	Pass
High	-31.66	2.37	-17.63	Pass

**802.11n-40MHz Mode:**

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-30.61	-1.86	-21.86	Pass
Middle	-31.16	-0.30	-20.30	Pass
High	-30.92	-3.46	-23.46	Pass



## VHT20 Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.27	3.70	-16.30	Pass
Middle	-31.52	8.18	-11.82	Pass
High	-31.57	3.02	-16.98	Pass

## VHT40 Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.25	-1.29	-21.29	Pass
Middle	-32.15	-1.48	-21.48	Pass
High	-30.39	-3.01	-23.01	Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.27	3.70	-16.30	Pass
Middle	-31.52	8.18	-11.82	Pass
High	-31.57	3.02	-16.98	Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.25	-1.29	-21.29	Pass
Middle	-30.50	0.22	-19.78	Pass
High	-30.76	-3.29	-23.29	Pass

**MIMO ANT 1:****802.11b Mode:**

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.10	6.97	-13.03	Pass
Middle	-31.61	7.83	-12.17	Pass
High	-31.06	7.32	-12.68	Pass

**802.11g Mode:**

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-29.73	4.89	-15.11	Pass
Middle	-31.24	7.22	-12.78	Pass
High	-31.81	4.46	-15.54	Pass

**802.11n-20MHz Mode:**

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.20	3.23	-16.77	Pass
Middle	-31.27	6.40	-13.60	Pass
High	-29.95	3.38	-16.62	Pass

**802.11n-40MHz Mode:**

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.26	-1.51	-21.51	Pass
Middle	-29.76	-0.94	-20.94	Pass
High	-31.63	-3.17	-23.17	Pass

## VHT20 Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.19	3.33	-16.67	Pass
Middle	-30.98	6.39	-13.61	Pass
High	-31.69	2.96	-17.04	Pass

## VHT40 Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.25	-0.16	-20.16	Pass
Middle	-32.03	3.52	-16.48	Pass
High	-31.46	-4.16	-24.16	Pass

## 802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-30.62	3.62	-16.39	Pass
Middle	-31.20	7.29	-12.71	Pass
High	-31.70	3.46	-16.54	Pass

## 802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.31	-1.79	-21.79	Pass
Middle	-31.15	-0.42	-20.42	Pass
High	-30.76	-3.26	-23.26	Pass

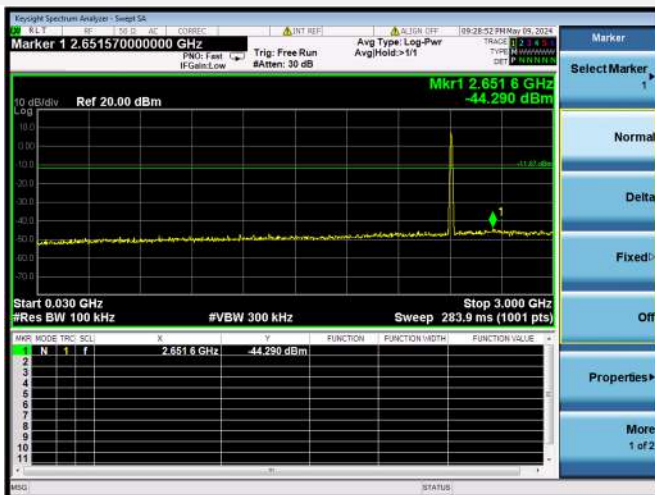
Test Plots

ANT 0:

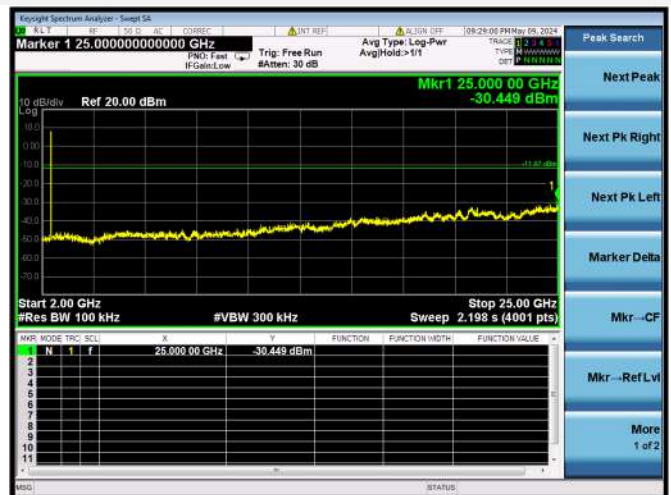
802.11b CH1 CARRIER LEVEL



802.11b CH1, SPURIOUS 30 MHz ~ 3 GHz



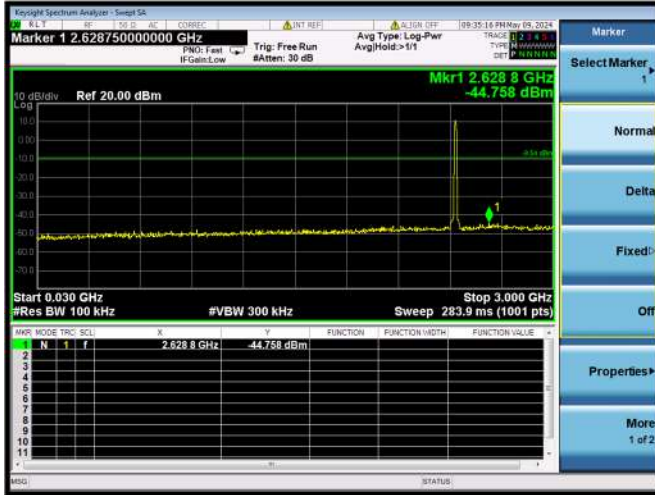
802.11b CH1, SPURIOUS 2 GHz ~ 25 GHz



802.11b CH6 CARRIER LEVEL



802.11b CH6, SPURIOUS  
30 MHz ~ 3 GHz



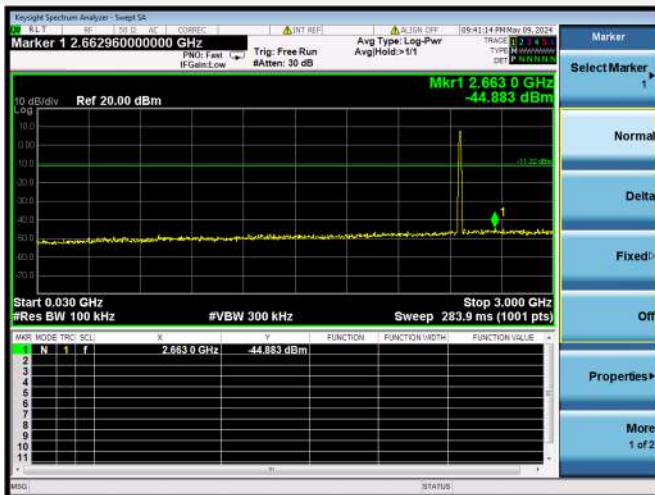
802.11b CH6, SPURIOUS  
2 GHz ~ 25 GHz



802.11b CH11 CARRIER LEVEL



802.11b CH11, SPURIOUS  
30 MHz ~ 3 GHz

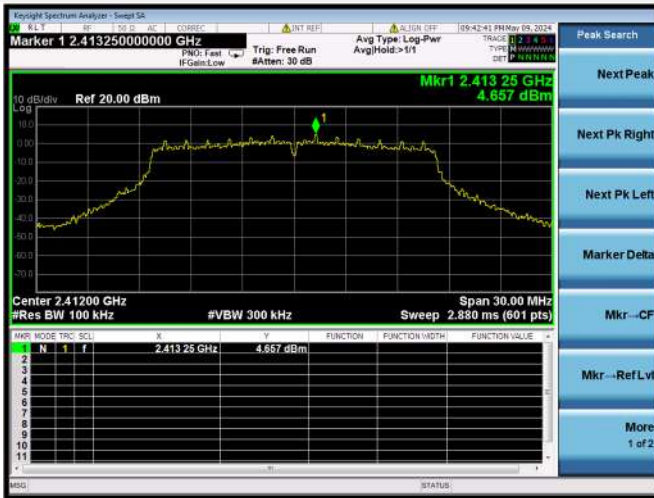


802.11b CH11, SPURIOUS  
2 GHz ~ 25 GHz

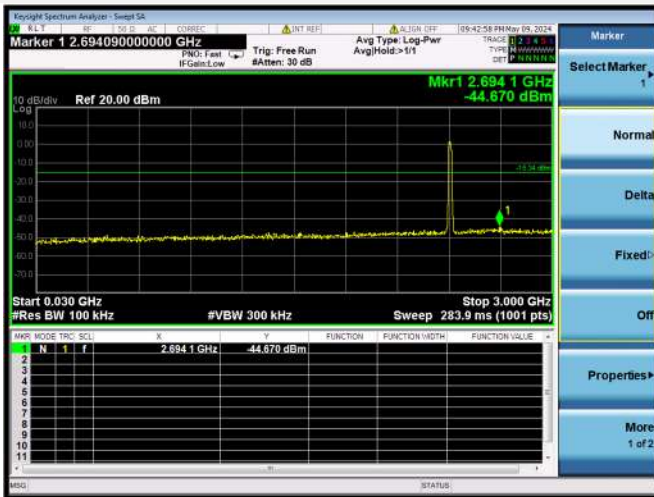




### 802.11g CH1 CARRIER LEVEL



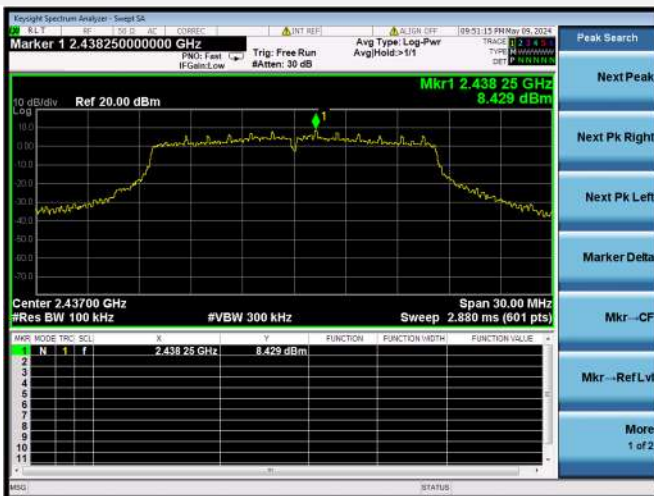
### 802.11g CH1, SPURIOUS 30 MHz ~ 3 GHz



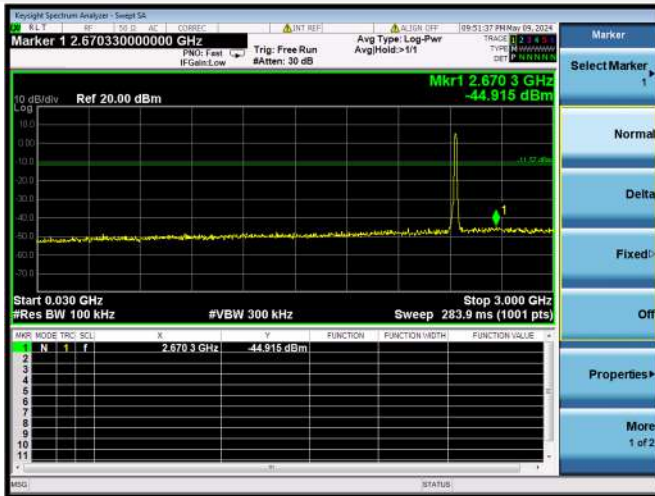
### 802.11g CH1, SPURIOUS 2 GHz ~ 25 GHz



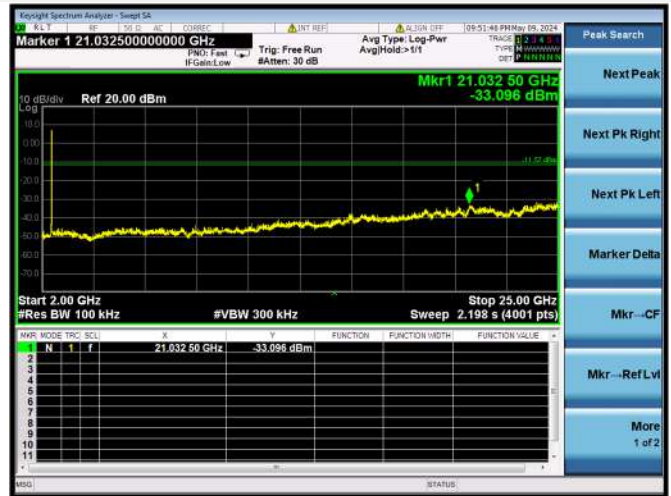
### 802.11g CH6 CARRIER LEVEL



802.11g CH6, SPURIOUS  
30 MHz ~ 3 GHz



802.11g CH6, SPURIOUS  
2 GHz ~ 25 GHz



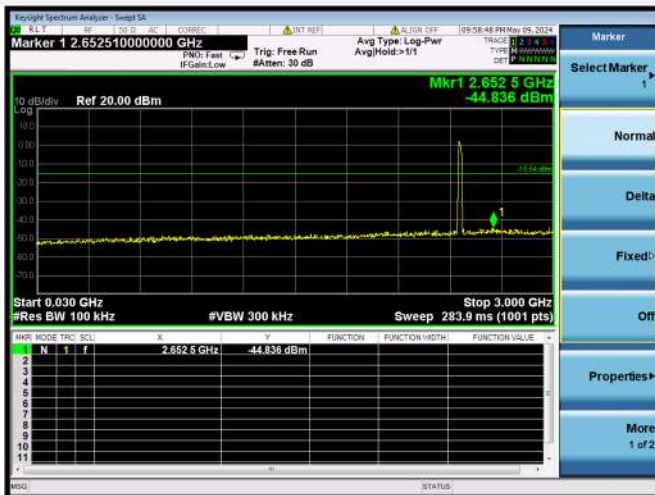
802.11g CH11 CARRIER LEVEL



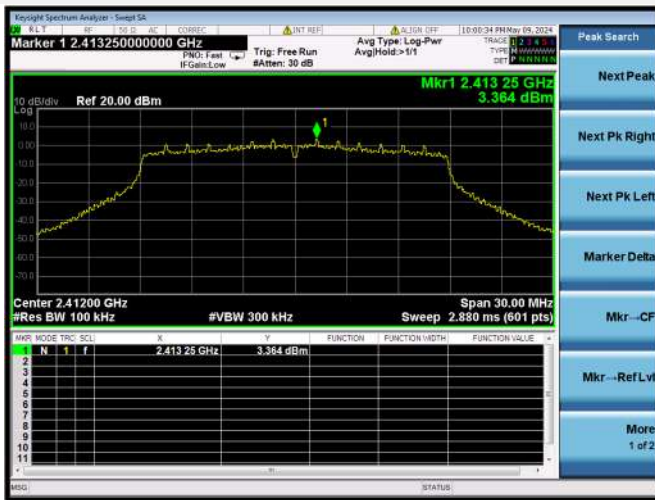
802.11g CH11, SPURIOUS  
2 GHz ~ 25 GHz



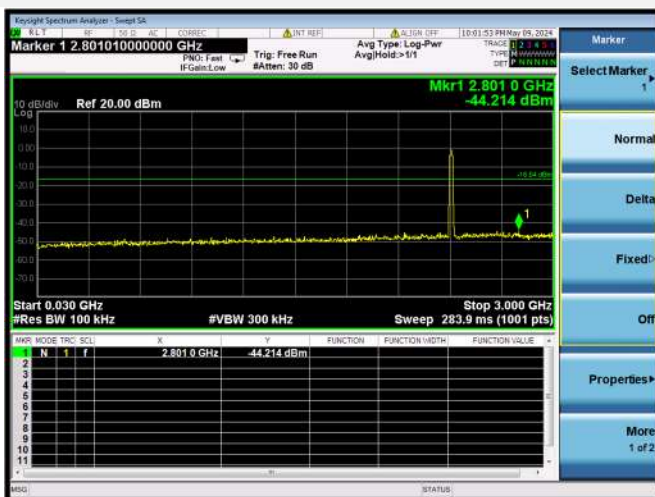
802.11g CH11, SPURIOUS  
30 MHz ~ 3 GHz



802.11n-20 MHz CH1 CARRIER LEVEL



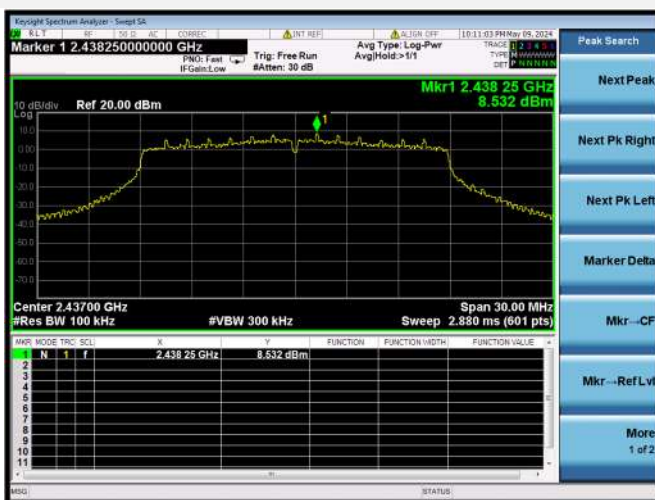
802.11n-20 MHz CH1, SPURIOUS  
30 MHz ~ 3 GHz



802.11n-20 MHz CH1, SPURIOUS  
2 GHz ~ 25 GHz

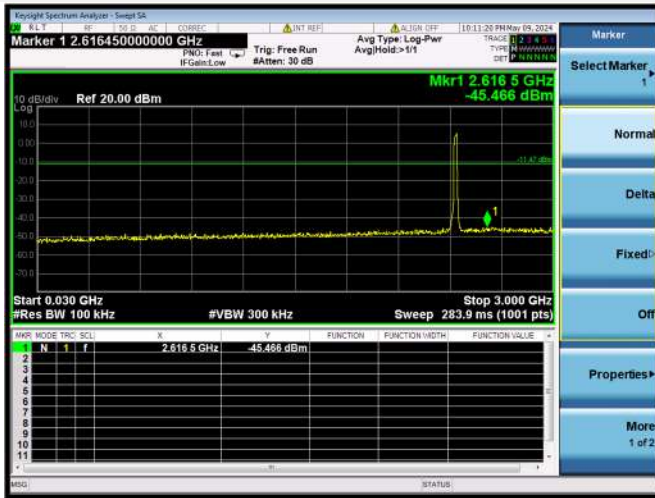


802.11n-20 MHz CH6 CARRIER LEVEL





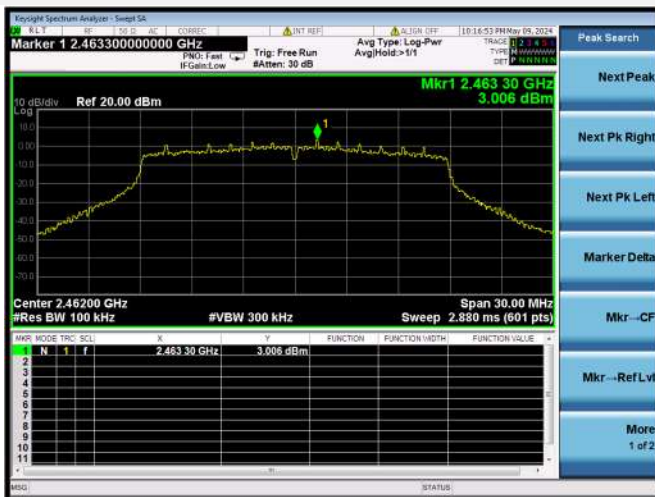
802.11n-20 MHz CH6, SPURIOUS  
30 MHz ~ 3 GHz



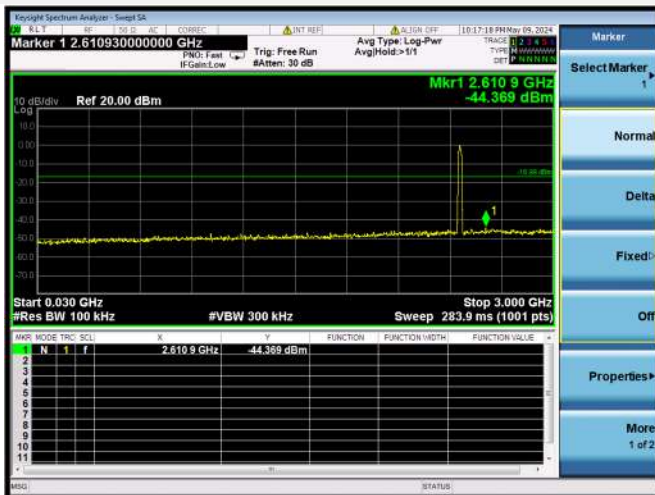
802.11n-20 MHz CH6, SPURIOUS  
2 GHz ~ 25 GHz



802.11n-20 MHz CH11 CARRIER LEVEL



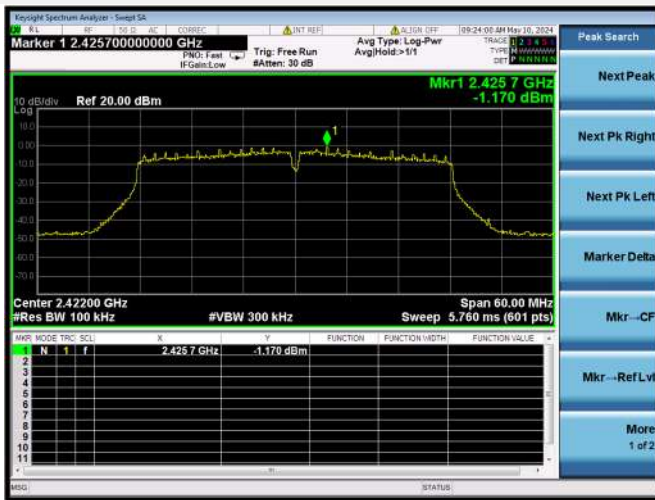
802.11n-20 MHz CH11, SPURIOUS  
30 MHz ~ 3 GHz



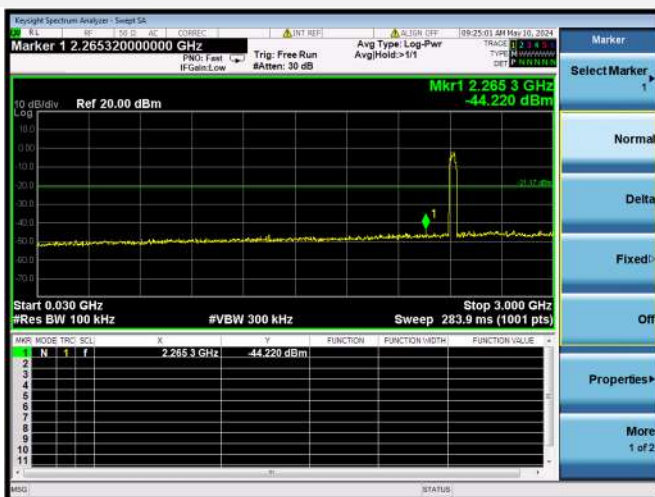
802.11n-20 MHz CH11, SPURIOUS  
2 GHz ~ 25 GHz



802.11n-40 MHz CH3 CARRIER LEVEL



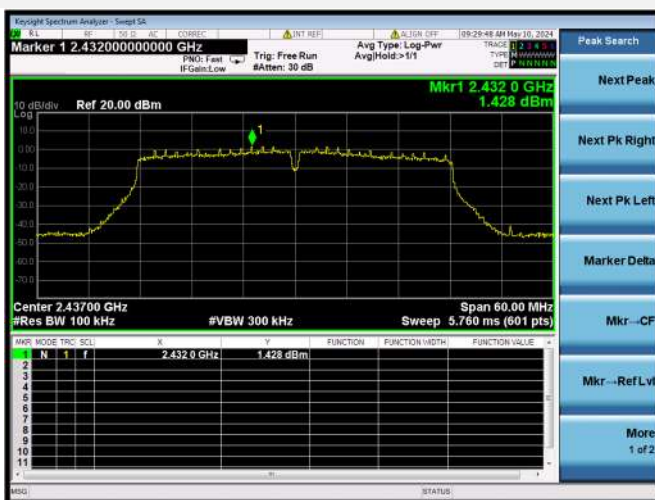
802.11n-40 MHz CH3, SPURIOUS  
30 MHz ~ 3 GHz



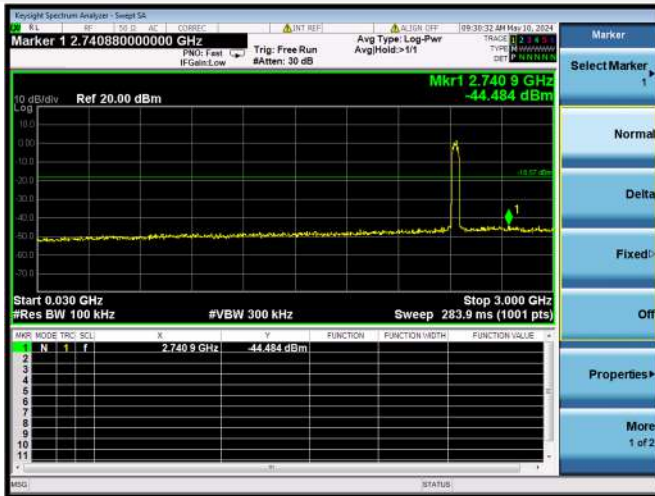
802.11n-40 MHz CH3, SPURIOUS  
2 GHz ~ 25 GHz



802.11n-40 MHz CH6 CARRIER LEVEL



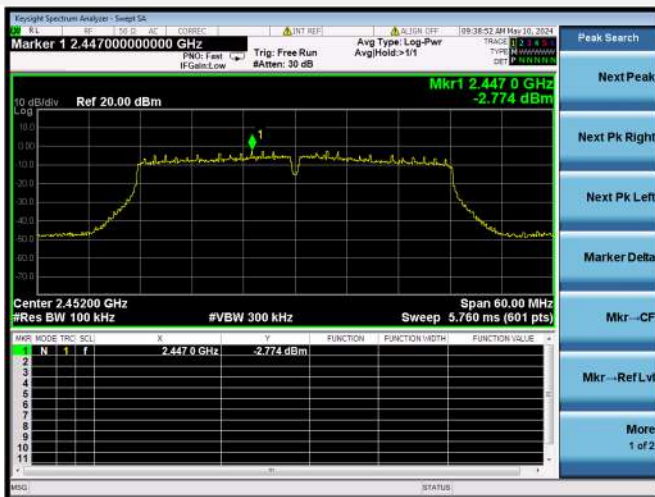
802.11n-40 MHz CH6, SPURIOUS  
30 MHz ~ 3 GHz



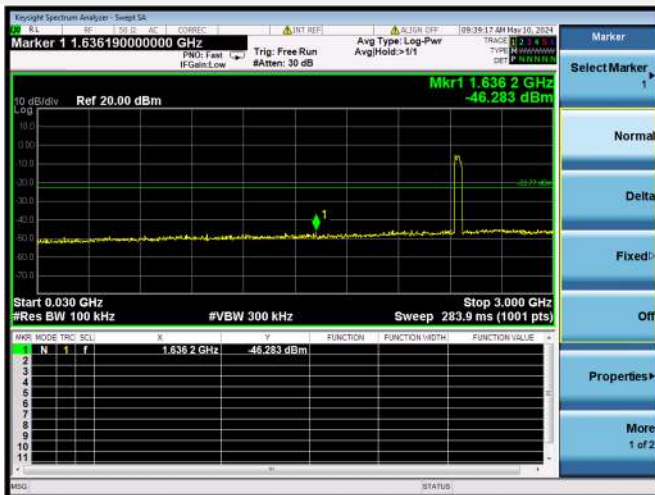
802.11n-40 MHz CH6, SPURIOUS  
2 GHz ~ 25 GHz



802.11n-40 MHz CH9 CARRIER LEVEL



802.11n-40 MHz CH9, SPURIOUS  
30 MHz ~ 3 GHz

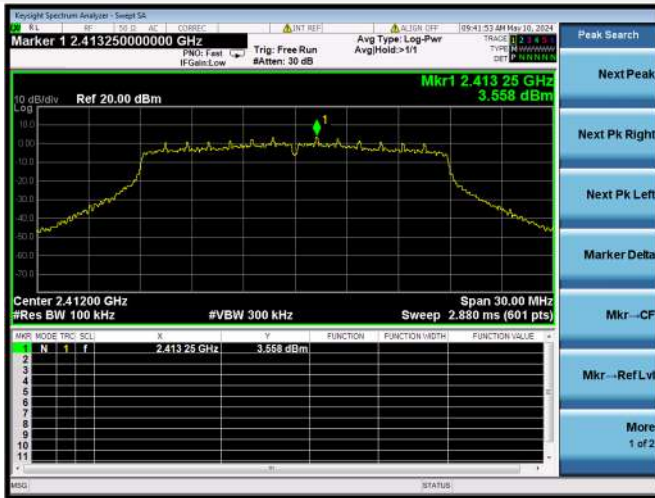


802.11n-40 MHz CH9, SPURIOUS  
2 GHz ~ 25 GHz

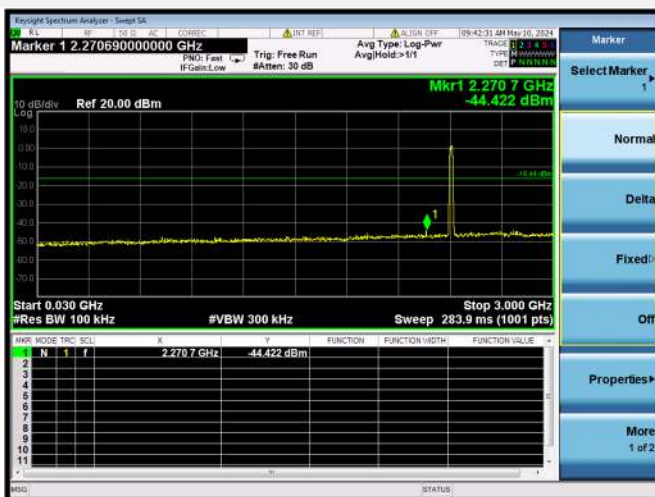




802.11n-40 MHz CH1 CARRIER LEVEL



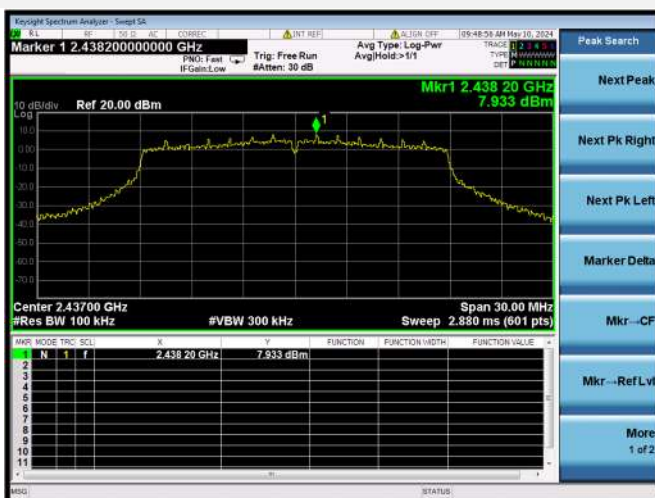
VHT20 CH1, SPURIOUS  
30 MHz ~ 3 GHz



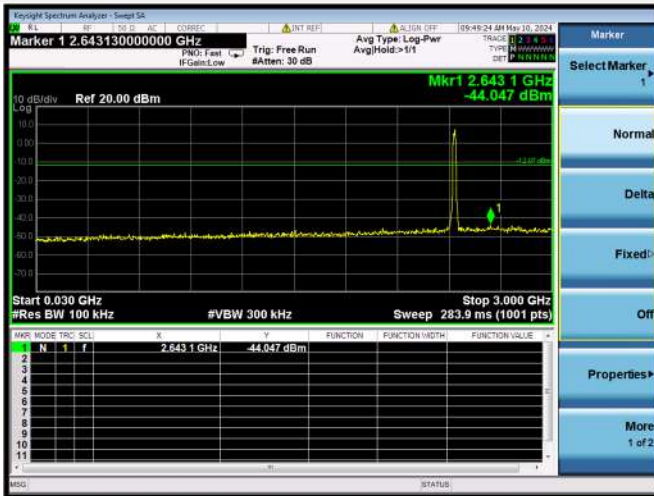
VHT20 CH1, SPURIOUS  
2 GHz ~ 25 GHz



VHT20 CH6 CARRIER LEVEL



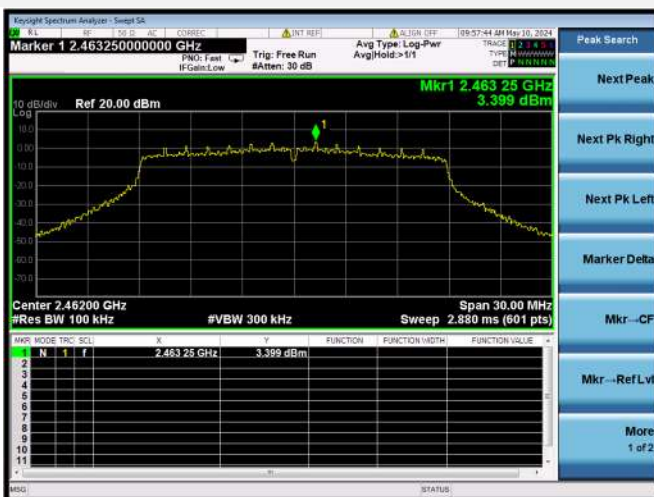
VHT20 CH6, SPURIOUS  
30 MHz ~ 3 GHz



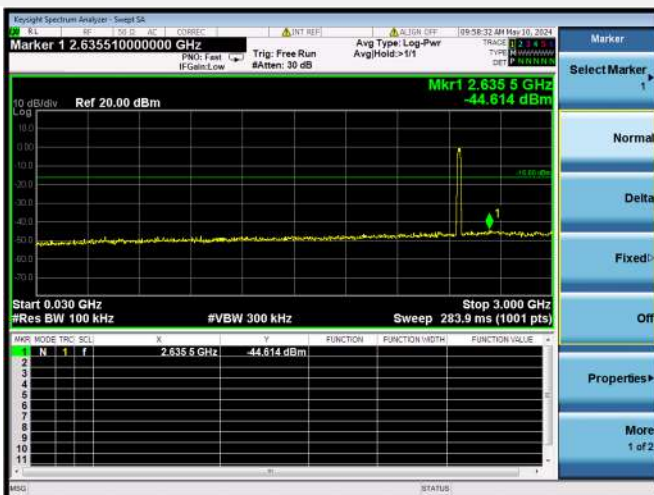
VHT20 CH6, SPURIOUS  
2 GHz ~ 25 GHz



VHT20 CH11 CARRIER LEVEL



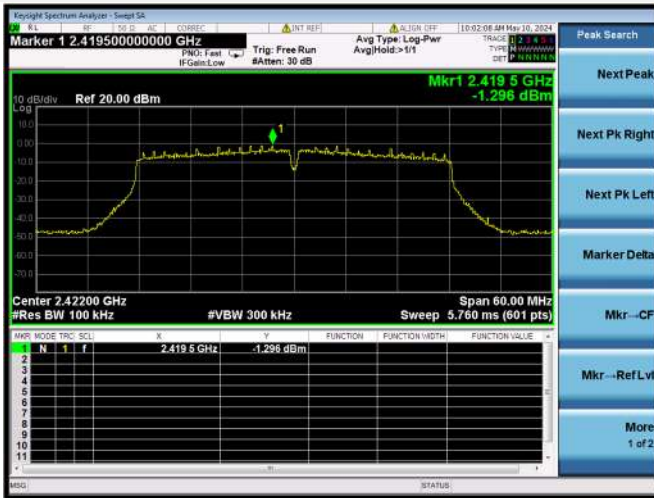
VHT20 CH11, SPURIOUS  
30 MHz ~ 3 GHz



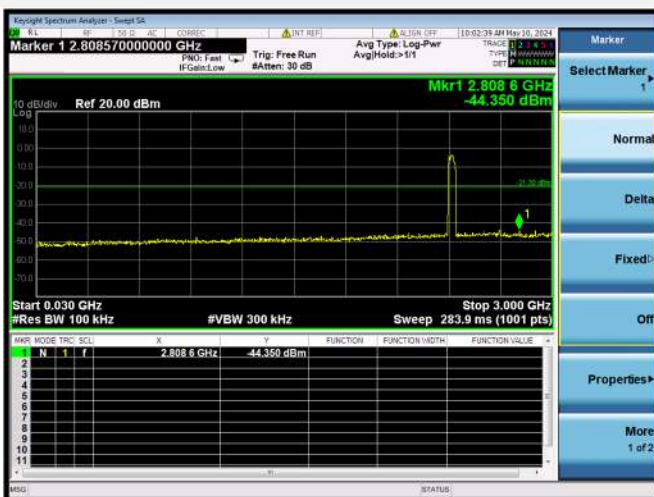
VHT20 CH11, SPURIOUS  
2 GHz ~ 25 GHz



### VHT40 CH3 CARRIER LEVEL



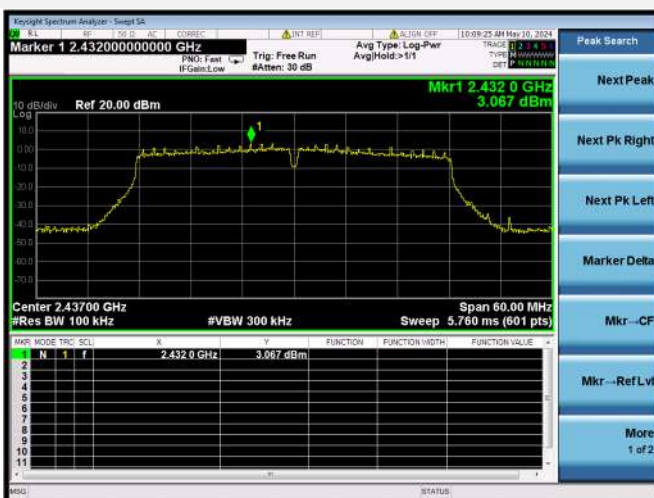
### VHT40 CH3, SPURIOUS 30 MHz ~ 3 GHz



### VHT40 CH3, SPURIOUS 2 GHz ~ 25 GHz

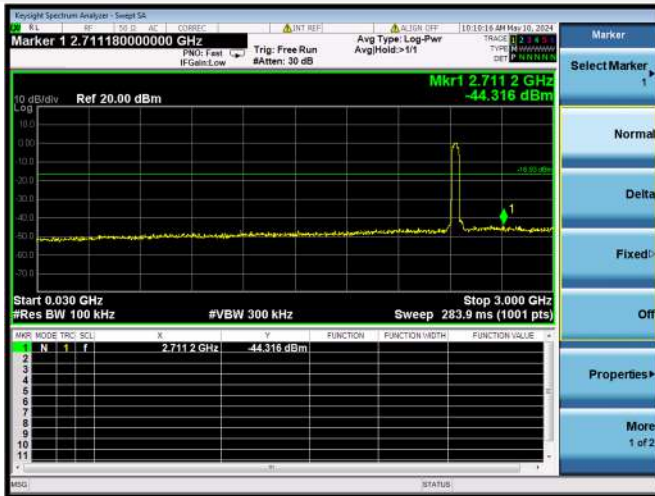


### VHT40 CH6 CARRIER LEVEL

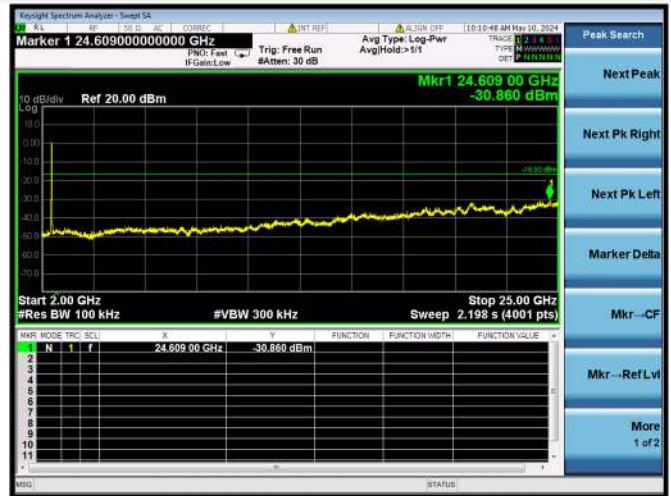




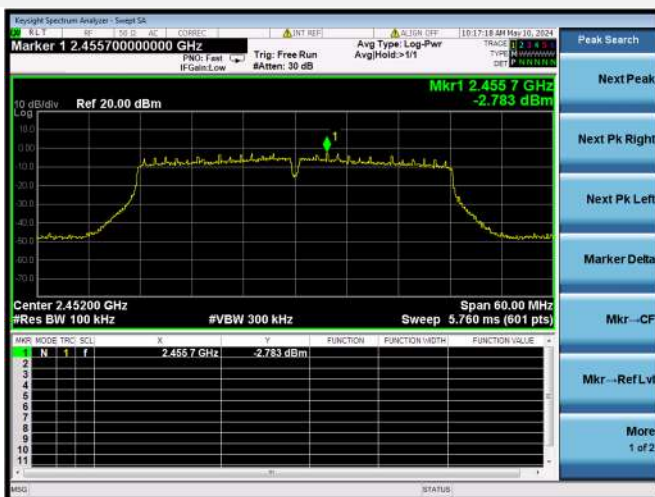
VHT40 CH6, SPURIOUS  
30 MHz ~ 3 GHz



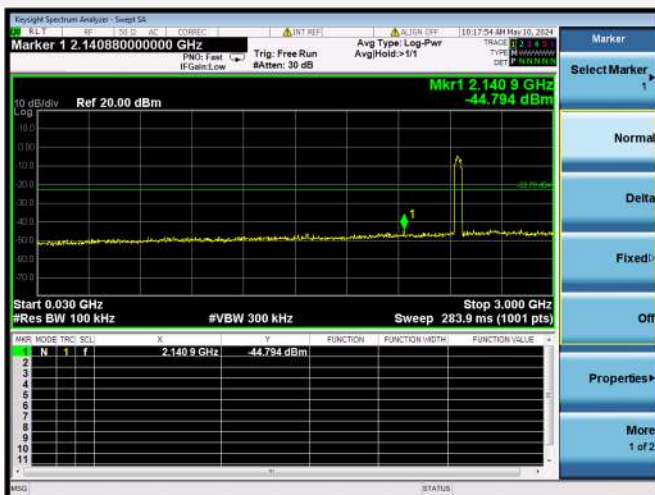
VHT40 CH6, SPURIOUS  
2 GHz ~ 25 GHz



VHT40 CH9 CARRIER LEVEL



VHT40 CH9, SPURIOUS  
30 MHz ~ 3 GHz

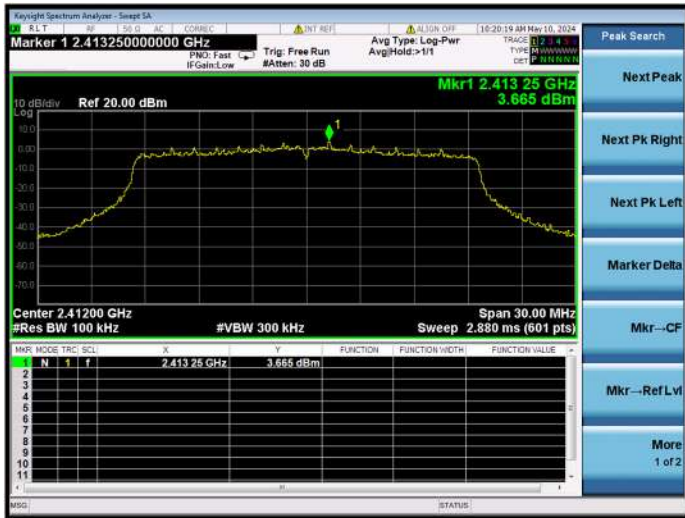


VHT40 CH9, SPURIOUS  
2 GHz ~ 25 GHz

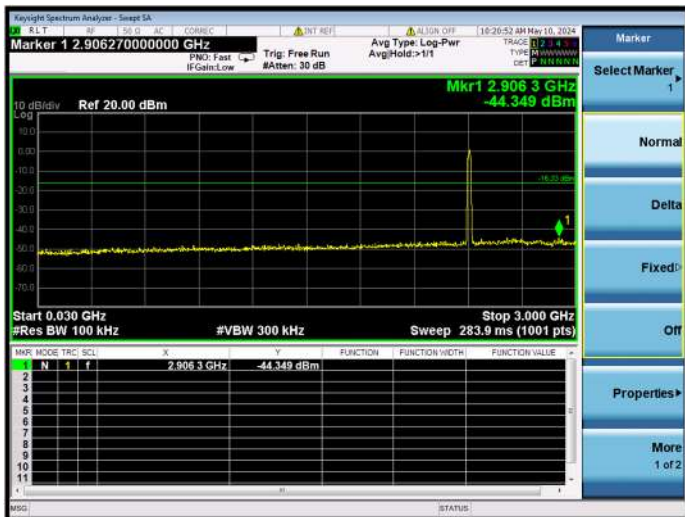




802.11ax-20 MHz(SU) CH1 CARRIER LEVEL



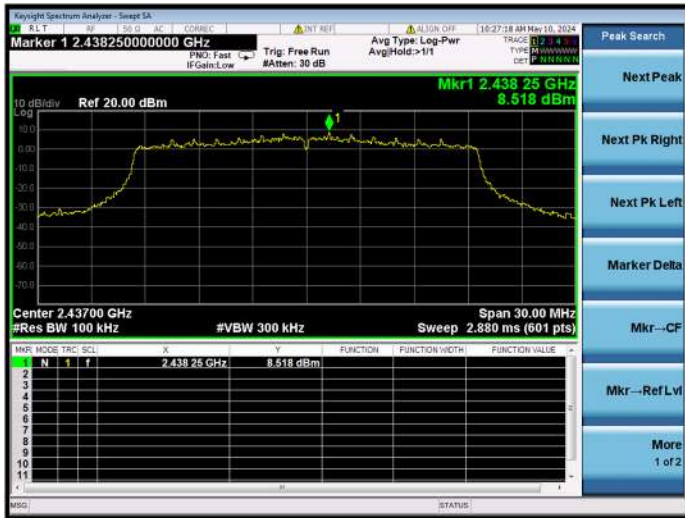
802.11ax-20 MHz(SU) CH1, SPURIOUS  
30 MHz ~ 3 GHz



802.11ax-20 MHz(SU) CH1, SPURIOUS  
2 GHz ~ 25 GHz



802.11ax-20 MHz(SU) CH6 CARRIER LEVEL



802.11ax-20 MHz(SU) CH6, SPURIOUS 30 MHz ~ 3 GHz

802.11ax-20 MHz(SU) CH6, SPURIOUS 2 GHz ~ 25 GHz

