



# RF Test Report

**Applicant:** Quectel Wireless Solutions Co., Ltd.

**Address:** Building 5, Shanghai Business Park Phase III (Area B), No.1016  
Tianlin Road, Minhang District, Shanghai, China 200233

**Product:** Wi-Fi & Bluetooth Module

**Model No.:** FCM363X, FCM363X-L

**Brand Name:** QUECTEL

**FCC ID:** XMR2025FCM363X

**Standards:** FCC CFR47 Part 15E

**Report No.:** PD20250047-R3C

**Issue Date:** 2025/07/21

**Test Result:** PASS \*

\* Testing performed at Hefei Panwin Technology Co., Ltd. on the above equipment indicates the product meets the requirements of the relevant standards.

**Reviewed By:** Jerry Zhang

**Approved By:** Alec Yang

## Hefei Panwin Technology Co., Ltd.

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# Test Report

Report No.: PD20250047-R3C  
Report Version: 01

## Revision History

Report No.	Version	Description	Issue Date	Note
PD20250047-R3C	1	Initial Report	2025/07/21	Valid

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## Summary of Test Results

No.	Test Case	FCC Rules	Verdict
1	Occupied Bandwidth Measurement	15.407(e)	PASS
2	Maximum Conducted Output Power Measurement	15.407(a)	PASS
3	Power Spectral Density Measurement	15.407(a)	PASS
4	Unwanted Emissions Measurement	15.407(b)	PASS
5	AC Conducted Emission Measurement	15.207	NA
6	Antenna Requirements	15.203 & 15.407(a)	PASS
7	Frequency Stability <sup>Note1</sup>	15.407(g)	NA

Date of Testing: 2025/04/14 to 2025/06/16

Date of Sample Received: 2025/04/11

• We, Hefei Panwin Technology Co., Ltd., would like to declare that the tested sample has been evaluated in accordance with the procedures given in applied standard(s) in **Section 2.3** of this report and shown compliance with the applicable technical standards.

• All indications of PASS/FAIL in this report are based on interpretations and/or observations of test results.

Measurement Uncertainties were not taken into account and are published for informational purposes only.

**Note1:** Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

## 1 General Information

### 1.1 Notes of the Test Report

This report is invalid without signature of auditor and approver or with any alterations. The report shall not be partially reproduced without written approval of the testing company. Entrusted test results are only responsible for incoming samples. If there is any objection to the testing report, it shall be raised to the testing company within 15 days from the date of receiving the report. In the test results, "NA" means "not applicable", and the test items marked with "Δ" are subcontracted projects.

### 1.2 Test Facility

#### A2LA (Certificate Number: 6849.01)

Hefei Panwin Technology Co., Ltd. has been accredited by American Association for Laboratory Accreditation to perform measurement.

#### FCC (Designation Number: CN1361, Test Firm Registration Number: 473156)

Hefei Panwin Technology Co., Ltd. has been accredited on the US Federal Communications Commission list of test facilities recognized to perform measurements.

### 1.3 Testing Laboratory

Company Name	Hefei Panwin Technology Co., Ltd.
Address	Floor 1, Zone E, Plant 2#, Mingzhu Industrial Park, No.106 Chuangxin Avenue, High-tech Zone, Hefei City, Anhui Province, China
Telephone	+86-0551-63811775
Post Code	230031

## 2 General Description of Equipment under Test

### 2.1 Details of Application

Applicant	Quectel Wireless Solutions Co., Ltd.
Applicant Address	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer	Quectel Wireless Solutions Co., Ltd.
Manufacturer Address	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

### 2.2 General Information

Product	Wi-Fi & Bluetooth Module		
Model	FCM363X	FCM363X-L	
Software Version	FCM363XAAR02A02M08	FCM363XLAAR02A02M08	
Hardware Version	R1.0	R1.1	R1.0
SN	Conducted: E1Y25CK36000129&E1Y25L72Q000047&D1Y25F02C000005 Radiated: E1Y25CK36000137&E1Y24L72Q000137&D1Y25F02C000011		
Antenna Type	PCB Antenna		
Max. Conducted Power	Wi-Fi 5G: 18.89dBm		
WLAN Mode Supported:	802.11a 802.11n 20M 802.11ac 20M 802.11ax 20M		
Maximum Antenna Gain	3.10dBi		
Test Band	U-NII-1(5150MHz-5250MHz) U-NII-2A(5250MHz-5350MHz) U-NII-2C(5470MHz-5725MHz) U-NII-3(5725MHz-5850MHz)		
Operating voltage	Typical 3.3Vdc		
Modulation Type	802.11a/n/ac/ax: OFDM,BPSK, QPSK, 16QAM, 64QAM, 256QAM		

Model	HW Version	Difference Description
FCM363X	R1.0	FCM363X R1.0 does not have low power 32k crystal and RAM chip.
	R1.1	FCM363X R1.1 has 32k crystal and RAM chip. 32kHz crystal is for BB timer hibernation to reduce power consumption, it is not the crystal for BT/Wi-Fi RF operation. Above changes won't impact the protocol and RF performance for same frequency.
Model	HW Version	Difference Description
FCM363X	R1.0	FCM363X has 38 LCC pins and 35 LGA pins.
FCM363X-L	R1.0	FCM363X-L has 38 LCC pins and 9 LGA pins, LGA pins from 39 to 64 are deleted. 38 LCC pins and 9 LGA pins that at the same position are totally same. Above changes won't impact the protocol and RF performance for same frequency.

**Note:** The declared of product specification for EUT and/or Antenna presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

## 2.3 Application Standards

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

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UN II Test Procedures New Rules v02r01
- ANSI C63.10-2013

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 3 Test Condition

### 3.1 Test Configuration

#### Test mode

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). The worst cases were recorded in this report.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes (Z, X, Y axis), receiver antenna polarization (horizontal and vertical), the worst emission was found in Z position and the worst case was recorded. This report presents the data for the worst polarity.

Test Mode	Data Rate(Mbps)
802.11a	6
802.11n 20M	MCS0
802.11ac 20M	MCS0
802.11ax 20M	MCS0



## 3.2 Wireless Technology and Frequency Range

Wireless Technology	Bandwidth		Channel	Frequency	
Wi-Fi	U-NII-1	20MHz	36	5180 MHz	
			40	5200 MHz	
			44	5220 MHz	
			48	5240 MHz	
	U-NII-2A	20MHz	52	5260 MHz	
			56	5280 MHz	
			60	5300 MHz	
			64	5320 MHz	
	U-NII-2C	20MHz	100	5500 MHz	
			104	5520 MHz	
			108	5540 MHz	
			112	5560 MHz	
			116	5580 MHz	
			120	5600 MHz	
			124	5620 MHz	
			128	5640 MHz	
			132	5660 MHz	
			136	5680 MHz	
			140	5700 MHz	
	U-NII-3	20MHz	149	5745 MHz	
			153	5765 MHz	
			157	5785 MHz	
			161	5805 MHz	
			165	5825 MHz	
Does this device support TPC function?		<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No	
Does this device support TDWR band?		<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No	

## 3.3 Equipment List

### Conducted

Instrument	Manufacturer	Model	Asset No.	Cal. Interval	Cal. Due Date
Spectrum Analyzer	KEYSIGHT	N9020B	PWC0048	1 Year	2025/09/11
RF Control Unit	Tonsecod	JS0806-2	PWC0055	/	/
Shielded Chamber	Maorui	MR543	PWC0041	3 Years	2026/08/26
Test Software	Tonsecod	JS1120-3 V3.2.22	/	/	/

### Radiated

Instrument	Manufacturer	Model	Asset No.	Cal. Interval	Cal. Due Date
EMI Test Receiver	R&S	ESR7	PWB0023	1 Year	2025/09/11
Spectrum Analyzer	R&S	FSV3044	PWB0024	1 Year	2025/09/11
Loop Antenna	R&S	HFH2-Z2E	PWB0026	1 Year	2025/09/13
TRILOG Broadband Antenna	Schwarzbeck	VULB9162	PWB0029	1 Year	2025/09/09
Double-Ridged Guide Antenna	ETS-Lindgren	3117	PWB0031	1 Year	2025/09/26
k Type Horn Antenna	Steatite Antennas	QMS-00880	PWB0035	1 Year	2025/09/08
Pre-Amplifier	R&S	SCU40F1	PWB0036	1 Year	2025/09/11
Pre-Amplifier	COM-MW	DLNA8	PWB0094	1 Year	2025/09/11
Pre-Amplifier	R&S	SCU18F	PWB0034	1 Year	2025/09/11
Pre-Amplifier	R&S	OSP220 (OSP-B155G)	PWB0042	1 Year	2025/09/11
Anechoic Chamber	ETS.LINDGREN	Fact 3-2m	PWB0003	3 Years	2026/06/05
Test Software	Tonscend	JS32 V5.0.0	/	/	/

## 3.4 Support Equipment List

Equipment	Manufacturer	Description	Model	Serial Number
EVb	Quectel	/	Q1-C5601	E1Y25CS5B000009 E1Y25CS5B000046
RF cable	/	2.4GHz: 1.0dB, 5GHz: 1.5dB	/	/

## 3.5 Test Uncertainty

No.	Parameter	Uncertainty
1	Emission Bandwidth	1.9%
2	Occupied channel bandwidth	1.9%
3	Min emission bandwidth	1.9%
4	Duty Cycle	0.11%
5	Maximum Conduct Output Power	1.18 dB
6	Power Spectral Density	0.98 dB
7	Unwanted Emissions Measurement	9kHz-7GHz: 1.21dB 7GHz-40GHz: 3.31dB
8	Radiated Band Edges and Spurious Emission	Below 1GHz: 4.88 dB Above 1GHz: 5.06 dB
9	Temperature	3 °C
10	Humidity	1.3 %
11	Supply voltages	0.006 V

## 4 Test Items Description

### Ambient condition

Shielded Chamber

Temperature [°C]	21.4 to 27.1
Humidity [%RH]	31 to 55
Pressure [kPa]	100.2 to 103.7

Anechoic Chamber

Temperature [°C]	20.3 to 25.3
Humidity [%RH]	40 to 55
Pressure [kPa]	100.1 to 100.9

## 4.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

### 4.1.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

The minimum 6 dB bandwidth shall be at least 500 kHz

26dB and 99% Occupied bandwidth are reporting only.

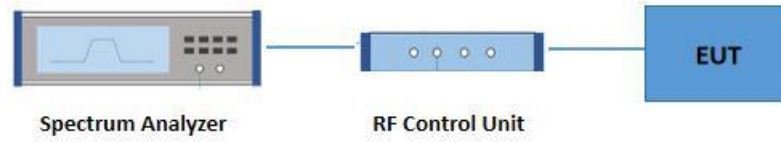
### 4.1.2 Measuring Instruments

The measuring equipment is listed in the section 3.3 of this test report.

### 4.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01Section C) Emission bandwidth.
2. For 6dB BW, Set RBW = 100kHz.  
For 26dB BW, Set RBW = approximately 1% of the emission bandwidth.  
For 99% OBW, Set RBW = 1% to 5% of the OBW.
3. For 26dB BW. Set the VBW > RBW.  
For 6dB BW & 99% OBW. Set the VBW  $\geq 3 \times$  RBW
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer, Readjust RBW and repeat measurements needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the OBW and set the Video bandwidth (VBW)  $\geq 3 \times$  RBW.
8. Measure and record the results in the test report.

## 4.1.4 Test Setup



## 4.1.5 Test Results

See ANNEX A.1.

## 4.2 Maximum Conducted Output Power Measurement

### 4.2.1 Limit of Maximum Conducted Output Power

#### <FCC 14 -30 CFR 15.407>

For the band 5.15–5.25 GHz.

(i) For an outdoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U–NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U–NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25 – 5.35 GHz and 5.47 – 5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725–5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

## 4.2.2 Measuring Instruments

The measuring equipment is listed in the section 3.3 of this test report.

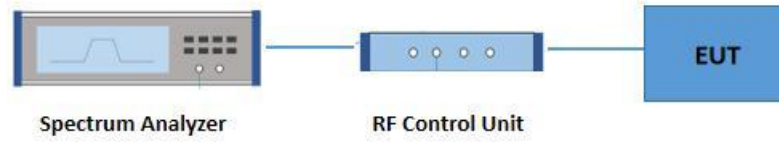
## 4.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):

1. Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
2. Set RBW = 1 MHz.
3. Set VBW  $\geq$  3 MHz.
4. Number of points in sweep  $\geq 2 \times \text{span} / \text{RBW}$ . (This ensures that bin-to-bin spacing is  $\leq \text{RBW}/2$ , so that narrowband signals are not lost between frequency bins.)
5. Sweep time = auto.
6. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
7. If transmit duty cycle  $< 98\%$ , use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq 98\%$ , and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
8. Trace average at least 100 traces in power averaging (rms) mode.
9. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

## 4.2.4 Test Setup



## 4.2.5 Test Result of Maximum Conducted Output Power

Please refer to ANNEX A.2.



## 4.3 Power Spectral Density Measurement

### 4.3.1 Limit of Power Spectral Density

#### Rule FCC Part 15.407(a)(1)/ Part 15.407(a)(2)/Part 15.407(a)(3)

For an indoor access point operating in the band 5.15–5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the 5.25-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 4.3.2 Measuring Instruments

The measuring equipment is listed in the section 3.3 of this test report.

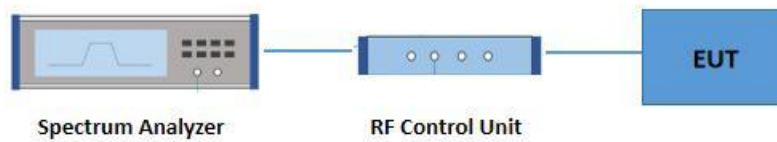
### 4.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section F) Maximum power spectral density.

1. Measure the duty cycle.
2. Set span to encompass the entire emission bandwidth (EBW) of the signal.
3. Set  $RBW \geq 1/T$ , where T is defined in II.B.I.a).
4. Set  $VBW \geq 3 RBW$ .
5. If measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10 \log (500 \text{ kHz}/RBW)$  to the measured result, whereas  $RBW (<500 \text{ kHz})$  is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
6. If measurement bandwidth of Maximum PSD is specified in 1 MHz, add  $10 \log (1\text{MHz}/RBW)$  to the measured result, whereas  $RBW (< 1 \text{ MHz})$  is the reduced resolution bandwidth of spectrum analyzer set during measurement.
7. Care must be taken to ensure that the measurements are performed during a period of continuous

transmission or are corrected upward for duty cycle.

## 4.3.4 Test Setup



## 4.3.5 Test Result of Power Spectral Density

Please refer to ANNEX A.3.

## 4.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

### 4.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5725 MHz band: all emissions outside of the 5470-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30-88	100	3
88 -216	150	3
216 - 960	200	3
Above 960	500	3

EIRP (dBm)	Field Strength at 3m (dB $\mu$ V/m)
- 27	68.2

**Note:** The following formula is used to convert the EIRP to field strength.

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

$E_{\text{Meas}}$  is the field strength of the emission at the measurement distance, in dB $\mu$ V/m

$d_{\text{Meas}}$  is the measurement distance, in m

## 4.4.2 Measuring Instruments

The measuring equipment is listed in the section 3.3 of this test report.

## 4.4.3 Test Procedures

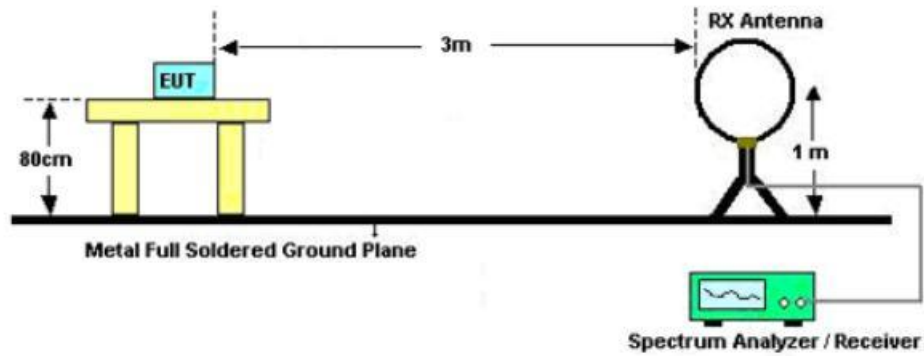
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section G) Unwanted emissions measurement.
  - Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW= 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The antenna is a broadband antenna and its height is adjusted between one meter and four.

meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.

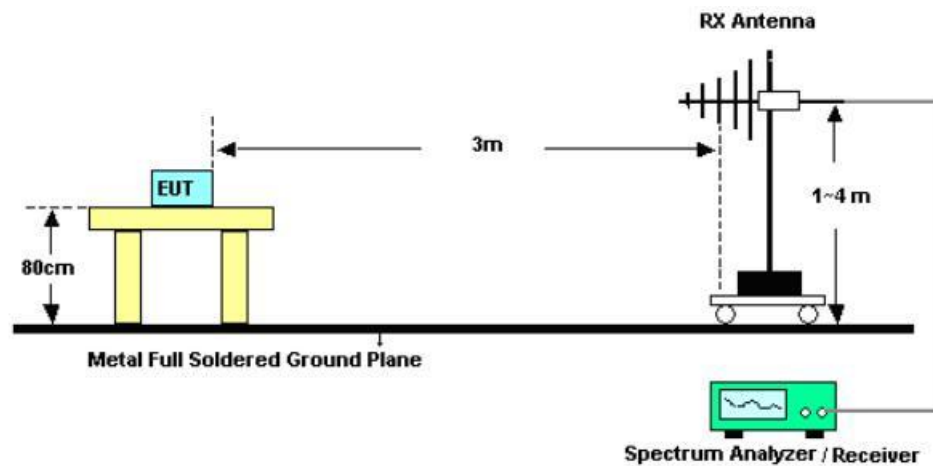
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

#### 4.4.4 Test Setup

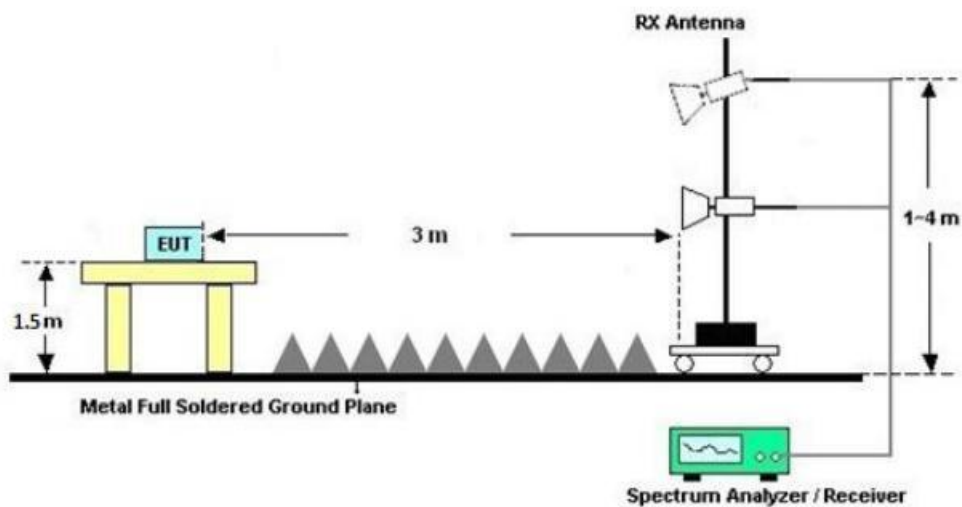
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



#### 4.4.5 Test Results of Radiated Spurious Emissions (9 kHz - 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

#### 4.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to ANNEX B.1.

#### 4.4.7 Test Result of Radiated Spurious Emissions (30MHz - 10th Harmonic or 40GHz whichever is lower)

Please refer to ANNEX B.1

#### 4.4.8 Duty Cycle

Please refer to ANNEX A.4.

## 4.5 AC Conducted Emission Measurement

### 4.5.1 Limit of AC Conducted Emission

For equipment 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 or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Decreases with the logarithm of the frequency.

### 4.5.2 Measuring Instruments

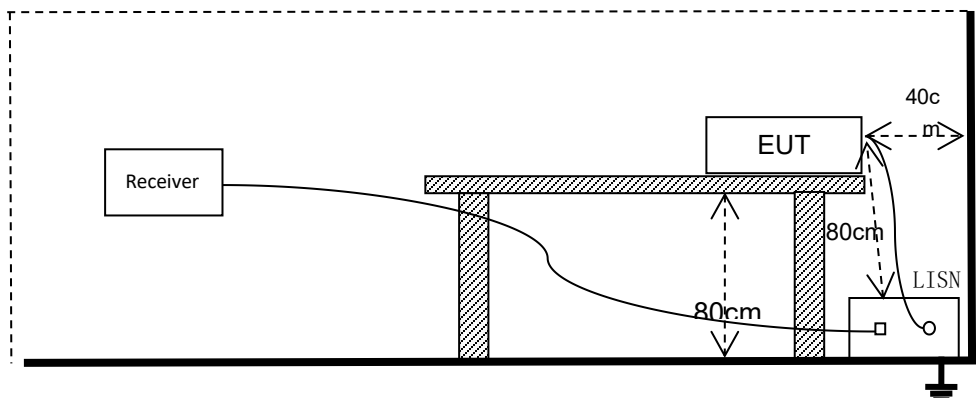
The section 3.3 of List of Measuring Equipment of this test report is used for test.

### 4.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth =9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



#### 4.5.4 Test Setup



#### 4.5.5 Uncertainty Measurement

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT. The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

CASE	Uncertainty
Continuous Emission (AC port)	2.92 dB

#### 4.5.6 Test Result

**Remark:** The product is DC powered, this test item is not applicable.

## 4.6 Antenna Requirements

### 4.6.1 Standard Applicable

15.203 requirement: 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, 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.

15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 4.6.2 Antenna Anti-Replacement Construction

The antenna is Internal on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.10dBi.

----- THE END -----

## ANNEX A: Test Results of Conducted Test

### A.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

#### Test Result\_26dB Bandwidth

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.200	5169.720	5189.920	---	---
11A	Ant1	5220	20.240	5210.040	5230.280	---	---
11A	Ant1	5240	20.200	5229.880	5250.080	---	---
11A	Ant1	5260	20.360	5249.880	5270.240	---	---
11A	Ant1	5300	20.360	5289.720	5310.080	---	---
11A	Ant1	5320	20.200	5310.040	5330.240	---	---
11A	Ant1	5500	20.000	5489.960	5509.960	---	---
11A	Ant1	5580	20.240	5569.720	5589.960	---	---
11A	Ant1	5700	20.120	5689.800	5709.920	---	---
11A	Ant1	5720	20.480	5709.680	5730.160	---	---
11A	Ant1	5720_UNII-2C	15.32	5709.680	5725	---	---
11A	Ant1	5720_UNII-3	5.16	5725	5730.160	---	---
11A	Ant1	5745	20.120	5734.960	5755.080	---	---
11A	Ant1	5785	19.880	5775.120	5795.000	---	---
11A	Ant1	5825	20.040	5814.960	5835.000	---	---
11N20SISO	Ant1	5180	20.320	5169.720	5190.040	---	---
11N20SISO	Ant1	5220	20.200	5210.000	5230.200	---	---
11N20SISO	Ant1	5240	20.120	5230.040	5250.160	---	---
11N20SISO	Ant1	5260	20.320	5249.720	5270.040	---	---
11N20SISO	Ant1	5300	20.440	5289.800	5310.240	---	---
11N20SISO	Ant1	5320	20.320	5309.800	5330.120	---	---
11N20SISO	Ant1	5500	20.440	5489.680	5510.120	---	---
11N20SISO	Ant1	5580	20.160	5569.960	5590.120	---	---
11N20SISO	Ant1	5700	20.120	5689.880	5710.000	---	---
11N20SISO	Ant1	5720	20.360	5709.760	5730.120	---	---
11N20SISO	Ant1	5720_UNII-2C	15.24	5709.760	5725	---	---
11N20SISO	Ant1	5720_UNII-3	5.12	5725	5730.120	---	---
11N20SISO	Ant1	5745	20.400	5734.880	5755.280	---	---
11N20SISO	Ant1	5785	20.160	5774.960	5795.120	---	---
11N20SISO	Ant1	5825	20.320	5814.840	5835.160	---	---
11AC20SISO	Ant1	5180	20.120	5170.040	5190.160	---	---
11AC20SISO	Ant1	5220	20.120	5209.920	5230.040	---	---
11AC20SISO	Ant1	5240	19.960	5229.960	5249.920	---	---

11AC20SISO	Ant1	5260	20.360	5249.840	5270.200	---	---
11AC20SISO	Ant1	5300	20.040	5289.880	5309.920	---	---
11AC20SISO	Ant1	5320	20.000	5309.960	5329.960	---	---
11AC20SISO	Ant1	5500	20.360	5489.760	5510.120	---	---
11AC20SISO	Ant1	5580	20.040	5569.960	5590.000	---	---
11AC20SISO	Ant1	5700	20.200	5689.920	5710.120	---	---
11AC20SISO	Ant1	5720	20.080	5709.920	5730.000	---	---
11AC20SISO	Ant1	5720_UNII-2C	15.08	5709.920	5725	---	---
11AC20SISO	Ant1	5720_UNII-3	5	5725	5730.000	---	---
11AC20SISO	Ant1	5745	20.040	5734.920	5754.960	---	---
11AC20SISO	Ant1	5785	20.160	5774.960	5795.120	---	---
11AC20SISO	Ant1	5825	20.440	5814.760	5835.200	---	---
11AX20SISO	Ant1	5180	20.440	5169.720	5190.160	---	---
11AX20SISO	Ant1	5220	20.280	5209.800	5230.080	---	---
11AX20SISO	Ant1	5240	20.520	5229.800	5250.320	---	---
11AX20SISO	Ant1	5260	20.480	5249.760	5270.240	---	---
11AX20SISO	Ant1	5300	20.400	5289.840	5310.240	---	---
11AX20SISO	Ant1	5320	20.600	5309.800	5330.400	---	---
11AX20SISO	Ant1	5500	20.640	5489.640	5510.280	---	---
11AX20SISO	Ant1	5580	20.680	5569.720	5590.400	---	---
11AX20SISO	Ant1	5700	20.520	5689.680	5710.200	---	---
11AX20SISO	Ant1	5720	20.520	5709.760	5730.280	---	---
11AX20SISO	Ant1	5720_UNII-2C	15.24	5709.760	5725	---	---
11AX20SISO	Ant1	5720_UNII-3	5.28	5725	5730.280	---	---
11AX20SISO	Ant1	5745	20.280	5734.800	5755.080	---	---
11AX20SISO	Ant1	5785	20.320	5774.760	5795.080	---	---
11AX20SISO	Ant1	5825	20.320	5814.800	5835.120	---	---

## Test Result\_26dB Bandwidth for AX Part RU

Test Mode	Antenna	Frequency [MHz]	Ru Size	Ru Index	26db BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11AX20SISO	Ant1	5180	26Tone	RU0	19.240	5169.760	5189.000	---	---
11AX20SISO	Ant1	5180	52Tone	RU37	19.080	5169.920	5189.000	---	---
11AX20SISO	Ant1	5180	106Tone	RU53	18.880	5170.120	5189.000	---	---
11AX20SISO	Ant1	5220	26Tone	RU4	18.200	5210.760	5228.960	---	---
11AX20SISO	Ant1	5220	52Tone	RU39	17.960	5210.960	5228.920	---	---
11AX20SISO	Ant1	5220	106Tone	RU53	18.920	5210.080	5229.000	---	---
11AX20SISO	Ant1	5240	26Tone	RU8	19.200	5230.880	5250.080	---	---
11AX20SISO	Ant1	5240	52Tone	RU40	19.160	5230.920	5250.080	---	---

11AX20SISO	Ant1	5240	106Tone	RU54	19.440	5230.680	5250.120	---	---
11AX20SISO	Ant1	5260	26Tone	RU0	19.160	5249.800	5268.960	---	---
11AX20SISO	Ant1	5260	52Tone	RU37	19.000	5250.000	5269.000	---	---
11AX20SISO	Ant1	5260	106Tone	RU53	18.920	5250.120	5269.040	---	---
11AX20SISO	Ant1	5300	26Tone	RU4	17.960	5290.960	5308.920	---	---
11AX20SISO	Ant1	5300	52Tone	RU39	17.960	5291.000	5308.960	---	---
11AX20SISO	Ant1	5300	106Tone	RU53	19.040	5290.040	5309.080	---	---
11AX20SISO	Ant1	5320	26Tone	RU8	19.000	5311.040	5330.040	---	---
11AX20SISO	Ant1	5320	52Tone	RU40	19.320	5310.800	5330.120	---	---
11AX20SISO	Ant1	5320	106Tone	RU54	19.680	5310.440	5330.120	---	---
11AX20SISO	Ant1	5500	26Tone	RU0	19.200	5489.800	5509.000	---	---
11AX20SISO	Ant1	5500	52Tone	RU37	18.520	5490.040	5508.560	---	---
11AX20SISO	Ant1	5500	106Tone	RU53	18.880	5490.080	5508.960	---	---
11AX20SISO	Ant1	5580	26Tone	RU4	17.960	5571.040	5589.000	---	---
11AX20SISO	Ant1	5580	52Tone	RU39	17.560	5570.920	5588.480	---	---
11AX20SISO	Ant1	5580	106Tone	RU53	18.480	5570.080	5588.560	---	---
11AX20SISO	Ant1	5700	26Tone	RU8	19.120	5691.000	5710.120	---	---
11AX20SISO	Ant1	5700	52Tone	RU40	19.240	5690.800	5710.040	---	---
11AX20SISO	Ant1	5700	106Tone	RU54	19.600	5690.360	5709.960	---	---
11AX20SISO	Ant1	5745	26Tone	RU0	19.240	5734.720	5753.960	---	---
11AX20SISO	Ant1	5745	52Tone	RU37	17.520	5734.960	5752.480	---	---
11AX20SISO	Ant1	5745	106Tone	RU53	18.880	5735.080	5753.960	---	---
11AX20SISO	Ant1	5785	26Tone	RU4	18.080	5775.840	5793.920	---	---
11AX20SISO	Ant1	5785	52Tone	RU39	18.040	5775.920	5793.960	---	---
11AX20SISO	Ant1	5785	106Tone	RU53	18.840	5775.120	5793.960	---	---
11AX20SISO	Ant1	5825	26Tone	RU8	18.760	5816.360	5835.120	---	---
11AX20SISO	Ant1	5825	52Tone	RU40	18.840	5816.240	5835.080	---	---
11AX20SISO	Ant1	5825	106Tone	RU54	19.400	5815.680	5835.080	---	---

## Test Result\_6dB Bandwidth

### U-NII-3

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5720	16.320	5711.800	5728.120	---	---
11A	Ant1	5720_UNII-2C	13.2	5711.800	5725	---	---
11A	Ant1	5720_UNII-3	3.12	5725	5728.120	0.5	PASS
11A	Ant1	5745	16.320	5736.800	5753.120	0.5	PASS
11A	Ant1	5785	16.320	5776.800	5793.120	0.5	PASS
11A	Ant1	5825	16.320	5816.800	5833.120	0.5	PASS
11N20SISO	Ant1	5720	16.800	5711.560	5728.360	---	---

11N20SISO	Ant1	5720_UNII-2C	13.44	5711.560	5725	---	---
11N20SISO	Ant1	5720_UNII-3	3.36	5725	5728.360	0.5	PASS
11N20SISO	Ant1	5745	16.920	5736.480	5753.400	0.5	PASS
11N20SISO	Ant1	5785	17.040	5776.440	5793.480	0.5	PASS
11N20SISO	Ant1	5825	16.920	5816.440	5833.360	0.5	PASS
11AC20SISO	Ant1	5720	17.520	5711.200	5728.720	---	---
11AC20SISO	Ant1	5720_UNII-2C	13.8	5711.200	5725	---	---
11AC20SISO	Ant1	5720_UNII-3	3.72	5725	5728.720	0.5	PASS
11AC20SISO	Ant1	5745	16.680	5736.800	5753.480	0.5	PASS
11AC20SISO	Ant1	5785	16.560	5776.800	5793.360	0.5	PASS
11AC20SISO	Ant1	5825	17.320	5816.400	5833.720	0.5	PASS
11AX20SISO	Ant1	5720	18.120	5710.680	5728.800	---	---
11AX20SISO	Ant1	5720_UNII-2C	14.32	5710.680	5725	---	---
11AX20SISO	Ant1	5720_UNII-3	3.8	5725	5728.800	0.5	PASS
11AX20SISO	Ant1	5745	17.920	5735.840	5753.760	0.5	PASS
11AX20SISO	Ant1	5785	17.880	5776.080	5793.960	0.5	PASS
11AX20SISO	Ant1	5825	17.560	5816.280	5833.840	0.5	PASS

## Test Result\_99% Bandwidth

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.663	5171.6174	5188.2804	---	---
11A	Ant1	5220	16.661	5211.6495	5228.3105	---	---
11A	Ant1	5240	16.630	5231.6658	5248.2958	---	---
11A	Ant1	5260	16.645	5251.6704	5268.3154	---	---
11A	Ant1	5300	16.687	5291.6298	5308.3168	---	---
11A	Ant1	5320	16.711	5311.6048	5328.3158	---	---
11A	Ant1	5500	16.679	5491.6461	5508.3251	---	---
11A	Ant1	5580	16.645	5571.6349	5588.2799	---	---
11A	Ant1	5700	16.790	5691.5236	5708.3136	---	---
11A	Ant1	5720	16.637	5711.6683	5728.3053	---	---
11A	Ant1	5720_UNII-2C	13.332	5711.6683	5725	---	---
11A	Ant1	5720_UNII-3	3.305	5725	5728.3053	---	---
11A	Ant1	5745	16.649	5736.6680	5753.3170	---	---
11A	Ant1	5785	16.700	5776.5779	5793.2779	---	---
11A	Ant1	5825	16.746	5816.6088	5833.3548	---	---
11N20SISO	Ant1	5180	17.725	5171.1165	5188.8415	---	---
11N20SISO	Ant1	5220	17.808	5211.0748	5228.8828	---	---
11N20SISO	Ant1	5240	17.698	5231.1403	5248.8383	---	---
11N20SISO	Ant1	5260	17.730	5251.1057	5268.8357	---	---

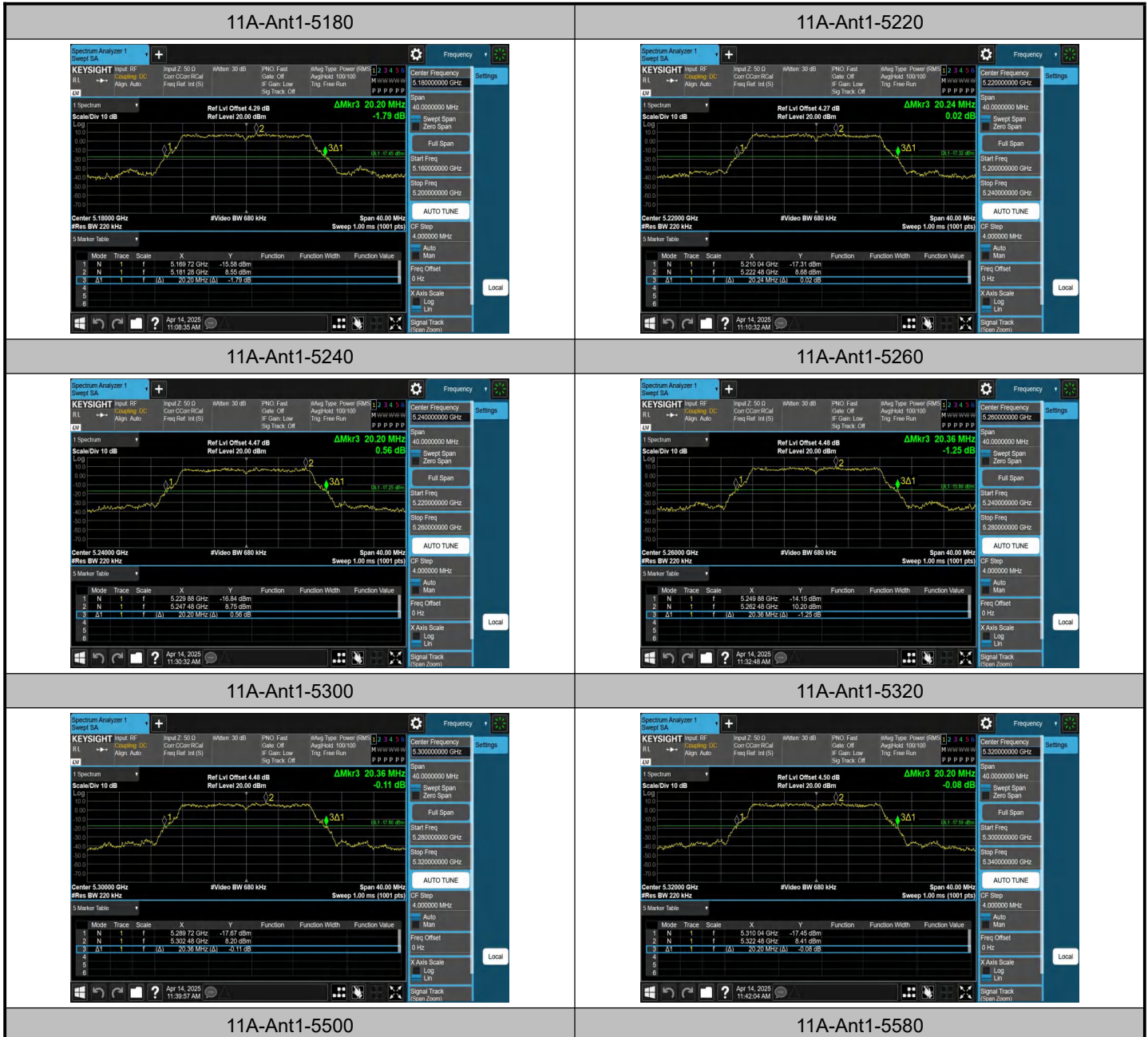
11N20SISO	Ant1	5300	17.716	5291.0925	5308.8085	---	---
11N20SISO	Ant1	5320	17.731	5311.0999	5328.8309	---	---
11N20SISO	Ant1	5500	17.763	5491.1108	5508.8738	---	---
11N20SISO	Ant1	5580	17.688	5571.1141	5588.8021	---	---
11N20SISO	Ant1	5700	17.755	5691.0912	5708.8462	---	---
11N20SISO	Ant1	5720	17.696	5711.1136	5728.8096	---	---
11N20SISO	Ant1	5720_UNII-2C	13.886	5711.1136	5725	---	---
11N20SISO	Ant1	5720_UNII-3	3.81	5725	5728.8096	---	---
11N20SISO	Ant1	5745	17.768	5736.0764	5753.8444	---	---
11N20SISO	Ant1	5785	17.674	5776.1174	5793.7914	---	---
11N20SISO	Ant1	5825	17.733	5816.1179	5833.8509	---	---
11AC20SISO	Ant1	5180	17.733	5171.1107	5188.8437	---	---
11AC20SISO	Ant1	5220	17.744	5211.1041	5228.8481	---	---
11AC20SISO	Ant1	5240	17.712	5231.1291	5248.8411	---	---
11AC20SISO	Ant1	5260	17.731	5251.1106	5268.8416	---	---
11AC20SISO	Ant1	5300	17.712	5291.1057	5308.8177	---	---
11AC20SISO	Ant1	5320	17.725	5311.1186	5328.8436	---	---
11AC20SISO	Ant1	5500	17.733	5491.1159	5508.8489	---	---
11AC20SISO	Ant1	5580	17.747	5571.0974	5588.8444	---	---
11AC20SISO	Ant1	5700	17.704	5691.1322	5708.8362	---	---
11AC20SISO	Ant1	5720	17.682	5711.1192	5728.8012	---	---
11AC20SISO	Ant1	5720_UNII-2C	13.881	5711.1192	5725	---	---
11AC20SISO	Ant1	5720_UNII-3	3.801	5725	5728.8012	---	---
11AC20SISO	Ant1	5745	17.758	5736.0806	5753.8386	---	---
11AC20SISO	Ant1	5785	17.711	5776.1211	5793.8321	---	---
11AC20SISO	Ant1	5825	17.767	5816.1079	5833.8749	---	---
11AX20SISO	Ant1	5180	18.858	5170.5268	5189.3848	---	---
11AX20SISO	Ant1	5220	18.882	5210.5297	5229.4117	---	---
11AX20SISO	Ant1	5240	18.826	5230.5740	5249.4000	---	---
11AX20SISO	Ant1	5260	18.815	5250.5338	5269.3488	---	---
11AX20SISO	Ant1	5300	18.843	5290.5232	5309.3662	---	---
11AX20SISO	Ant1	5320	18.778	5310.5889	5329.3669	---	---
11AX20SISO	Ant1	5500	18.867	5490.5284	5509.3954	---	---
11AX20SISO	Ant1	5580	18.846	5570.5452	5589.3912	---	---
11AX20SISO	Ant1	5700	18.841	5690.4972	5709.3382	---	---
11AX20SISO	Ant1	5720	18.869	5710.5454	5729.4144	---	---
11AX20SISO	Ant1	5720_UNII-2C	14.455	5710.5454	5725	---	---
11AX20SISO	Ant1	5720_UNII-3	4.414	5725	5729.4144	---	---
11AX20SISO	Ant1	5745	18.837	5735.5890	5754.4260	---	---



11AX20SISO	Ant1	5785	18.841	5775.5455	5794.3865	---	---
11AX20SISO	Ant1	5825	18.787	5815.5830	5834.3700	---	---

## Test Graphs

### 26dB Occupied Bandwidth







11A-Ant1-5700



11A-Ant1-5720



11A-Ant1-5745



11A-Ant1-5785



11A-Ant1-5825



11N20SISO-Ant1-5180



11N20SISO-Ant1-5220



11N20SISO-Ant1-5240



11N20SISO-Ant1-5260



11N20SISO-Ant1-5300



11N20SISO-Ant1-5320



11N20SISO-Ant1-5500



11N20SISO-Ant1-5580



11N20SISO-Ant1-5700



11N20SISO-Ant1-5720



11N20SISO-Ant1-5745







11AC20SISO-Ant1-5500



11AC20SISO-Ant1-5580



11AC20SISO-Ant1-5700



11AC20SISO-Ant1-5720



11AC20SISO-Ant1-5745



11AC20SISO-Ant1-5785



11AC20SISO-Ant1-5825



11AX20SISO-Ant1-5180





11AX20SISO-Ant1-5220



11AX20SISO-Ant1-5240



11AX20SISO-Ant1-5260



11AX20SISO-Ant1-5300



11AX20SISO-Ant1-5320



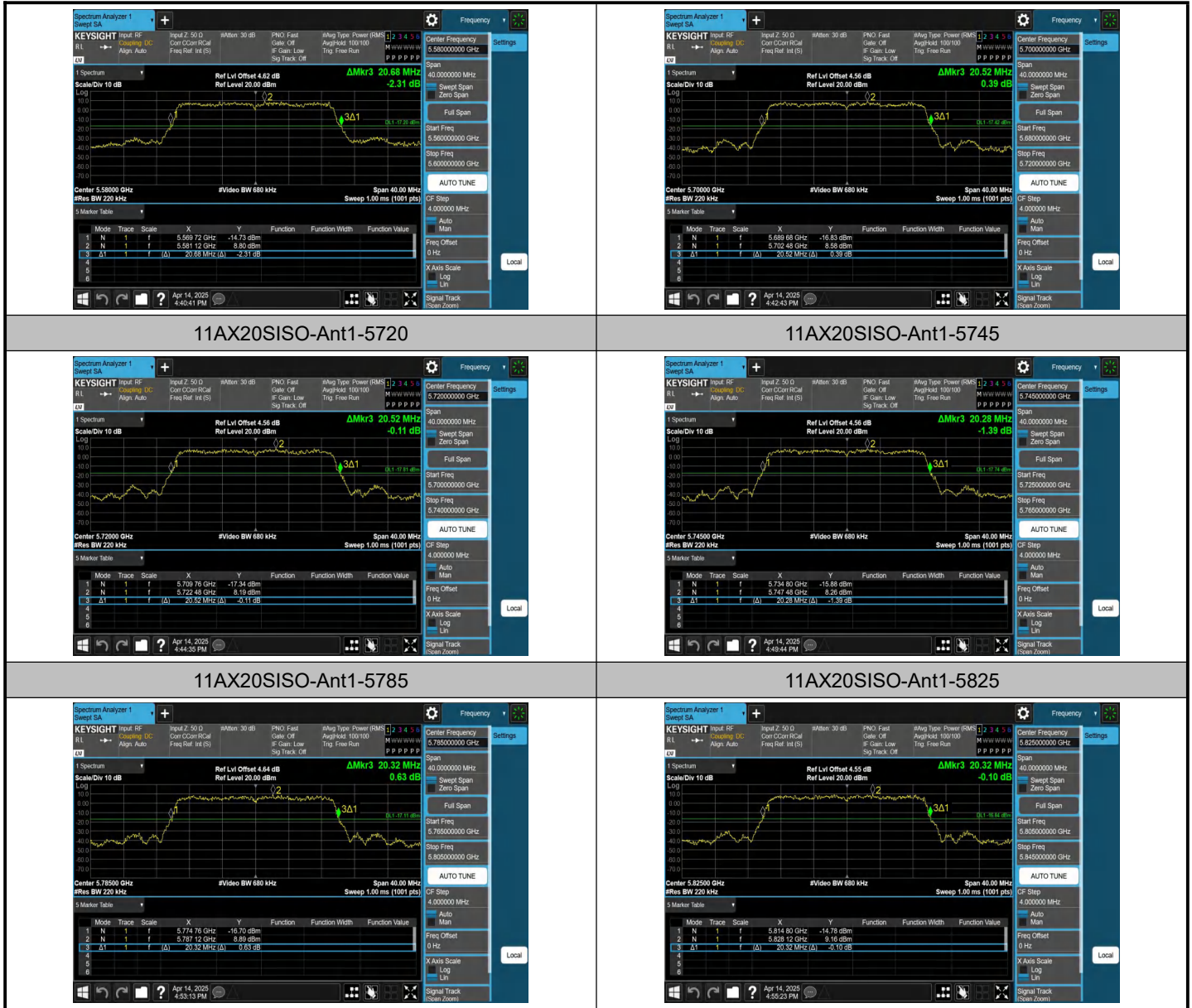
11AX20SISO-Ant1-5300



11AX20SISO-Ant1-5580



11AX20SISO-Ant1-5700



## 26dB Occupied Bandwidth for AX Part RU

11AX20SISO-Ant1-5180-26Tone-RU0



11AX20SISO-Ant1-5180-52Tone-RU37



11AX20SISO-Ant1-5180-106Tone-RU53



11AX20SISO-Ant1-5220-26Tone-RU4



11AX20SISO-Ant1-5220-52Tone-RU39



11AX20SISO-Ant1-5220-106Tone-RU53



11AX20SISO-Ant1-5240-26Tone-RU8



11AX20SISO-Ant1-5240-52Tone-RU40











11AX20SISO-Ant1-5320-52Tone-RU40



11AX20SISO-Ant1-5320-106Tone-RU54



11AX20SISO-Ant1-5500-26Tone-RU0



11AX20SISO-Ant1-5500-52Tone-RU37



11AX20SISO-Ant1-5500-106Tone-RU53



11AX20SISO-Ant1-5580-26Tone-RU4



11AX20SISO-Ant1-5580-52Tone-RU39



11AX20SISO-Ant1-5580-106Tone-RU53



11AX20SISO-Ant1-5700-26Tone-RU8



11AX20SISO-Ant1-5700-52Tone-RU40



11AX20SISO-Ant1-5700-106Tone-RU54



11AX20SISO-Ant1-5745-26Tone-RU0



11AX20SISO-Ant1-5745-52Tone-RU37



11AX20SISO-Ant1-5745-106Tone-RU53

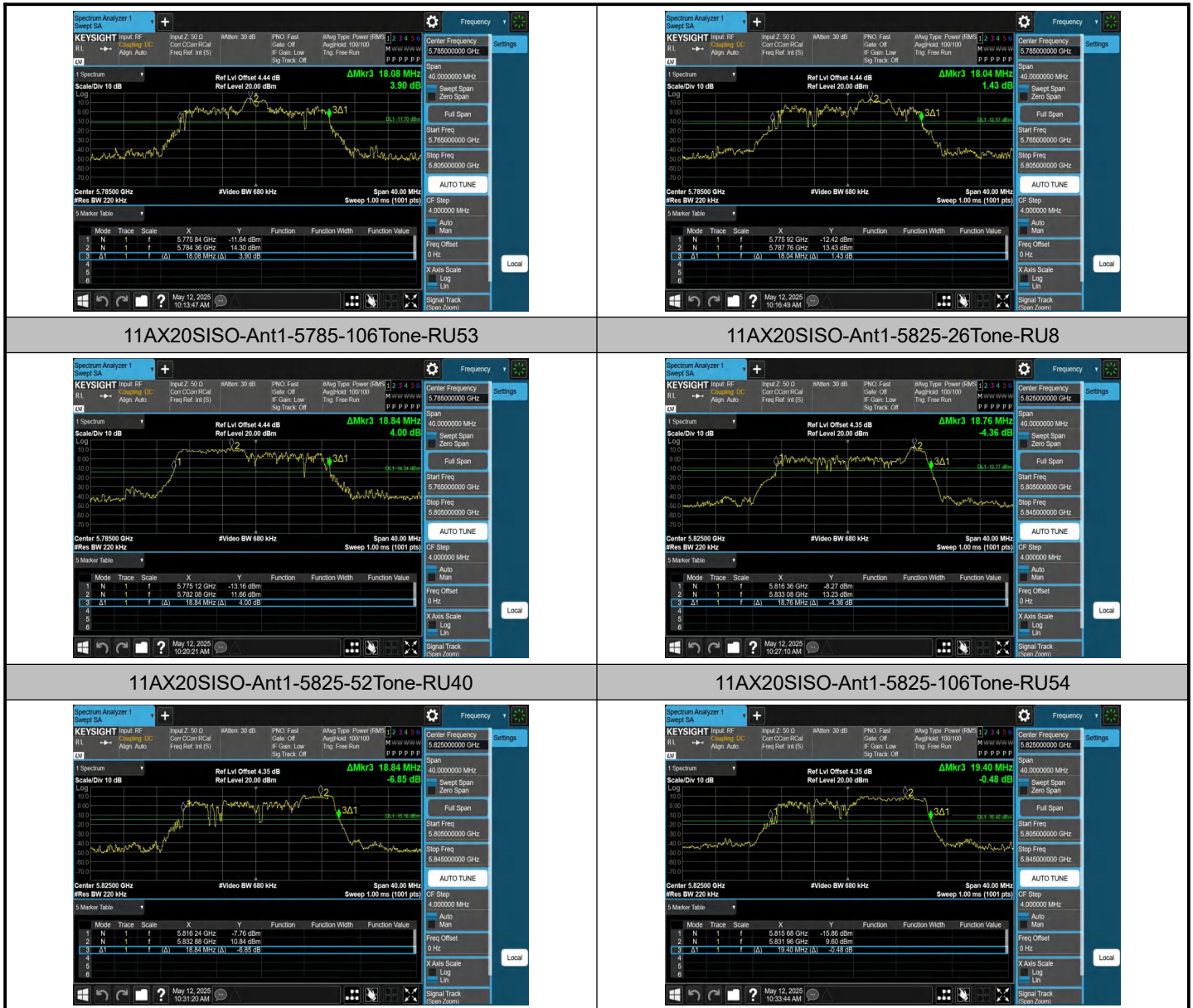


11AX20SISO-Ant1-5785-26Tone-RU4



11AX20SISO-Ant1-5785-52Tone-RU39





## 6dB Bandwidth U-NII-3

11A-Ant1-5720



11A-Ant1-5745-PASS



11A-Ant1-5785-PASS



11A-Ant1-5825-PASS



11N20SISO-Ant1-5720



11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5785-PASS



11N20SISO-Ant1-5825-PASS



