

Huawei Technologies Co., Ltd.

TEST REPORT

SCOPE OF WORK

JAPAN Radio Testing—eKitEngine AP271E

REPORT NUMBER

251124023SZN-002

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JAPAN Radio Test Report-WiFi 5G Band

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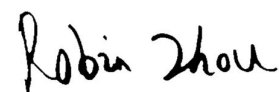


JAPAN Radio Test Report

Data transmission equipment operating in the 5GHz Band

Applicant:	Huawei Technologies Co., Ltd.
Address:	Administration Building, Headquarters of Huawei Technologies Co., Ltd, Bantian, Longgang District, 518129 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Product Name:	Wireless LAN Access Point
Model No.:	eKitEngine AP271E
Standard:	Article 49-20 and the relevant articles of the Ordinance Regulating Radio Equipment MIC Item 19-3 of Article 2 Paragraph 1
Test Procedure:	MIC Notice No.88 Appendix No.45
Date of Receipt:	24 November 2025
Date of Test:	24 November 2025 to 13 April 2026
Test Site and Location:	Intertek Testing Services Shenzhen Ltd. No.101&201, Building B, No. 308, Wuhe Avenue, Zhangkengjing, Guanhu Street, Longhua District, Shenzhen, Guangdong, China
Date of Issue:	21 April 2026
Test Result:	Pass*
* In the configuration tested, the EUT detailed in this report complied with the standards specified above.	

Prepared and Checked By:



Signature
Robin Zhou
Senior Project Engineer

Approved By:



Signature
Rui Zhou
Senior Project Engineer
21 April 2026 Date

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1. Revision History

Report No.	Version	Description	Issued Date
251124023SZN-002	Rev.01	Initial issue of report	21 April 2026

2. Summary of Test Result

Clause	Test Parameter	Result
MIC Item 19-3 of Article 2 Paragraph 1	Frequency Error	Pass
MIC Item 19-3 of Article 2 Paragraph 1	Antenna Power	Pass
MIC Item 19-3 of Article 2 Paragraph 1	E.I.R.P.	Pass
MIC Item 19-3 of Article 2 Paragraph 1	Spurious emission Intensity	Pass
MIC Item 19-3 of Article 2 Paragraph 1	Occupied bandwidth (99%)	Pass
MIC Item 19-3 of Article 2 Paragraph 1	Leak Power of Neighboring Channels	Pass
MIC Item 19-3 of Article 2 Paragraph 1	Leak Power Out of Band	Pass
MIC Item 19-3 of Article 2 Paragraph 1	Collateral Emissions of Receiver	Pass
MIC Item 19-3 of Article 2 Paragraph 1	Transmitting Burst Length	Pass
MIC Item 19-3 of Article 2 Paragraph 1	Interference prevention function	Pass
MIC Item 19-3 of Article 2 Paragraph 1	Carrier Sense Function	Pass
MIC Item 19-3 of Article 2 Paragraph 1	Dynamic Frequency Selection	Pass

3. General Information

3.1 Client Information

Applicant:	Huawei Technologies Co., Ltd.
Address of Applicant:	Administration Building, Headquarters of Huawei Technologies Co., Ltd, Bantian, Longgang District, 518129 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	Same as applicant
Address of Manufacturer:	Same as applicant
Factory:	Same as applicant
Address of Factory:	Same as applicant

3.2 General Description of EUT

Product Name:	Wireless LAN Access Point
Model No.:	eKitEngine AP271E
Trade Mark:	HUAWEI

3.3 Details of EUT

Operating Frequency:

Band	Mode	Frequency Range (MHz)	Number of channels
5.2GHz Band	IEEE 802.11a/n/ac/ax/be 20MHz	5180-5240	4
	IEEE 802.11n/ac/ax/be 40MHz	5190-5230	2
	IEEE 802.11ac/ax/be 80MHz	5210	1
5.3GHz Band	IEEE 802.11a/n/ac/ax/be 20MHz	5260-5320	4
	IEEE 802.11n/ac/ax/be 40MHz	5270-5310	2
	IEEE 802.11ac/ax/be 80MHz	5290	1
	IEEE 802.11ac/ax/be 160MHz	5250	1
5.6GHz Band	IEEE 802.11a/n/ac/ax/be 20MHz	5500-5720	12
	IEEE 802.11n/ac/ax/be 40MHz	5510-5710	6
	IEEE 802.11ac/ax/be 80MHz	5530-5690	3
	IEEE 802.11ac/ax/be 160MHz	5570	1
Type of Modulation:	IEEE 802.11a/n: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) 802.11ax: OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM) 802.11be: OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM/4096QAM)		

RU/MRU:	Supports RU and MRU, include 26-tone RU, 52-tone RU, 106-tone RU, 242-tone RU, 484-tone RU, 996-tone RU, and 2x996 tone RU. Only the worst-case full RU mode was reported.
Transmit Data Rate:	IEEE 802.11a: 6M/9M/12M/18M/24M/36M/48M/54M bps IEEE 802.11n: MCS0-MCS7 IEEE 802.11ac: MCS0-MCS9 IEEE 802.11ax: MCS0-MCS11 IEEE 802.11be: MCS0-MCS13
Type of Device:	Master device
Transmit Power Control:	Supports TPC function
Antenna Type:	PCB antenna
Antenna gain:	Ant1: Max 7.10dBi, Ant2: Max 6.40dBi (Ant1: 5GC0, Ant2: 5GC1)
Rated antenna power:	W52: 20MHz: 0.8mW/MHz, 40MHz: 0.4mW/MHz, 80MHz: 0.2mW/MHz W53: 20MHz: 0.8mW/MHz, 40MHz: 0.4mW/MHz, 80MHz: 0.2mW/MHz, 160MHz: 0.1mW/MHz W56: 20MHz: 5mW/MHz, 40MHz: 3mW/MHz, 80MHz: 1.5mW/MHz, 160MHz: 1mW/MHz
Power Supply:	DC 12V=2.0A Powered by Adapter or POE 48V=0.6A Powered by Adapter (Adapter Input: 100-240V~, 50/60Hz)
BLE and NearLink:	The BLE and NearLink functions are disabled by software, and the product does not support BLE or NearLink communication.

3.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
Laptop	Dell	Latitude 5420
Test Software (provided by applicant): IPOP V4.3.2 was installed on the laptop.		

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4. Equipment Used during Test

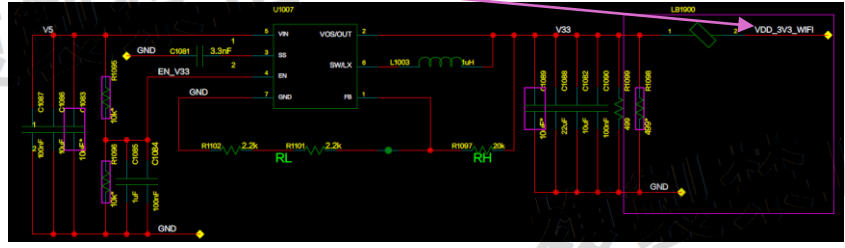
Test Equipment	Manufacturer	Model No.	Serial number	Cal. Date	Next Cal. Date	Calibration body	Calibration Method
MXA Signal Analyzer	Keysight	N9010A	MY51440158	2025/9/15	2026/9/14	Guangzhou Lisai Metrology & Test co., Ltd.	C
VXG Signal Generator	Keysight	N5182B	MY59100855	2025/4/15	2026/4/14		
RF Control Unit	dsusoft	JS0806-2	21G8060449	2025/3/1 2026/2/27	2026/2/28 2027/2/26	CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd	C
EXG Analog Signal Generator	Keysight	N5173B	MY59101282	2025/3/1 2026/2/27	2026/2/28 2027/2/26		
power supply unit	dsusoft	JS0806-4ADC	N/A	2025/3/1 2026/2/27	2026/2/28 2027/2/26		
Temp&Humidity Recorder	Meideshi	/	/	2025/4/15	2026/4/14	Shanghai Taifeng Testing and Certification Co., Ltd	C

Remark:

- Calibration conducted by the National Institute of Information and Communications Technology (NITC) in Japan (hereinafter referred to as "NITC") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.
- Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No.51 of 1992).
- Calibration conducted in countries except Japan, which shall be equivalent to the calibration Conducted by the NITC or a designation agency under Article 102-18 paragraph (1).
- Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No.3, which shall have been given any type of calibration, etc. listed above from (a) to (c). From JRL Article 24-2, paragraph 4, item 2
- Calibration duration for above equipments is 1 year.

5. Test Results

5.1 E.U.T. test conditions

Power supply:	DC 12V=2.0A Powered by Adapter or POE 48V=0.6A Powered by Adapter (Adapter Input: 100-240V~, 50/60Hz)												
	The RF unit is supplied by DC 3.3V. The fluctuation of input voltage to the circuit of RF unit of test equipment is under ±1%, when input voltage from AC 100V to the test equipment is fluctuated by ±10%, So, all measurement has been conducted by only rated voltage AC 100V.												
	The measurement result of the voltage fluctuation at RF circuit when AC 100V±10%. <table><tr><th>Power supply voltage</th><th>RF unit measured value</th><th>Condition</th></tr><tr><td>AC 100V</td><td>DC 3.3V</td><td>NTNV</td></tr><tr><td>AC 90V</td><td>DC 3.3V</td><td>NTLV</td></tr><tr><td>AC 110V</td><td>DC 3.3V</td><td>NTHV</td></tr></table> Test Point 	Power supply voltage	RF unit measured value	Condition	AC 100V	DC 3.3V	NTNV	AC 90V	DC 3.3V	NTLV	AC 110V	DC 3.3V	NTHV
Power supply voltage	RF unit measured value	Condition											
AC 100V	DC 3.3V	NTNV											
AC 90V	DC 3.3V	NTLV											
AC 110V	DC 3.3V	NTHV											
Temperature:	-10°C to +70°C												
Humidity:	45-85 % RH												
Atmospheric Pressure:	1000 -1010 mbar												

5.2 EUT channels and frequencies list

Classification		Channel and Frequency
5150MHz ~ 5250MHz	20MHz System	Ch36-5180MHz, Ch40-5200MHz, Ch44-5220MHz, Ch48-5240MHz,
	40MHz System	Ch38-5190MHz, Ch46-5230MHz
	80MHz System	Ch42-5210MHz
5250MHz ~ 5350MHz	20MHz System	Ch52-5260MHz, Ch56-5280MHz, Ch60-5300MHz, Ch64-5320MHz
	40MHz System	Ch54-5270MHz, Ch62-5310MHz
	80MHz System	Ch58-5290MHz
160MHz System		Ch50-5250MHz
5470MHz ~ 5730MHz	20MHz System	Ch100-5500MHz, Ch104-5520MHz, Ch108-5540MHz, Ch112-5560MHz, Ch116-5580MHz, Ch120-5600MHz, Ch124-5620MHz, Ch128-5640MHz, Ch132-5660MHz, Ch136-5680MHz, Ch140-5700MHz, Ch144-5720MHz
	40MHz System	Ch102-5510MHz, Ch110-5550MHz, Ch118-5590MHz, Ch126-5630MHz, Ch134-5670MHz, Ch142-5710MHz
	80MHz System	Ch106-5530MHz, Ch122-5610MHz, Ch138-5690MHz
	160MHz System	Ch114-5570MHz

Note: If the EUT can be set to 3 or more different (carrier) frequencies in 1 allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L, M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.

5.3 Test Environment

Operating Environment:	
Temperature:	25.0 °C
Humidity:	53.0 % RH
Atmospheric Pressure:	1001 mbar

5.4 Antenna Requirement

Standard requirement

Applicable for equipment with an antenna terminal, including testing terminals) If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.

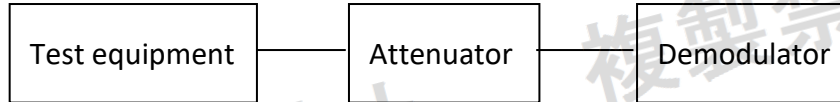
EUT Antenna

The antenna is PCB antenna on the main PCB and no consideration of replacement. The best case gain of the antenna 1 is 7.10dBi and antenna 2 is 6.40dBi.

5.5 Interference prevention function

1. Measurement system diagram

When transmitting identification code



2. Condition of measuring instrument

Demodulator must be able to demodulate the transmitting signal emitted by test equipment and to indicate the identification code.

3. Condition of test equipment the mode of normal use.

4. Measuring operation procedure

When test equipment has the function to transmit identification code automatically:

- A) Transmit the predetermined identification code from test equipment.
- B) Confirm the transmitted identification code by demodulator.

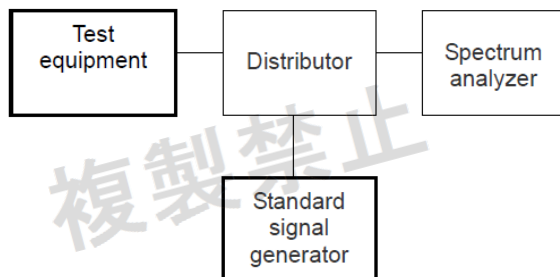
Identification code: F8:28:C9:BE:6A:50

5. Test result: The unit does meet the requirements.

5.6 Carrier sense capability

1) Measurement system diagram

Test with test equipment only



2) Condition of measuring instrument

(1) Set the standard signal generator as follows:

Carrier frequency: Center frequency of receiving frequency band of test equipment

Modulation: No modulation. (note1)

Output level: regulated level on antenna input of test equipment

Note 1: The un-modulated carrier in the center frequency, when the carrier sense function of test equipment is not worked, if necessary, change the frequency or modulate it.

(2) Set the spectrum analyzer as follows:

Center frequency: Center frequency of the bandwidth used.(note2)

Sweep frequency band: 50MHz(note2)

Resolution bandwidth: Approximately 1 MHz

Video bandwidth: Comparable level with resolution bandwidth

Trigger condition: Free-run

Detective mode: positive peak

Note 2: Under 26MHz of OFDM or other modulated method that with transmit function, set sweep frequency band as 0Hz, detective mode as sample, center frequency as the carrier frequency from 13MHz to 19MHz.

3) Condition of test equipment

Set the test equipment at the test frequency and the test spread code, and set it to the receiving mode in the beginning. When using external test device, connect with the test equipment by line connection.

4) Measuring operation procedure

Test with test equipment only:

A) Set the spectrum analyzer according to (2) of 2).

B) Set the test equipment to the transmitting operation with the output of standard signal generator OFF, and confirm that it emits over 26MHz occupied frequency bandwidth OFDM radio wave, by using spectrum analyzer.

C) Set the test equipment to the receiving mode.

D) With the output of standard signal generator ON, set the test equipment to the transmitting operation, and confirm that it does not emit over 26MHz occupied frequency bandwidth OFDM radio wave, by using spectrum analyzer.

Test Item	Bandwidth	Test Result
Carrier Sensing Function	20MHz	Good (EUT Stop RF transmission signal after carrier inject to EUT. Stop carrier inject, EUT will transmitting normal.)
	40MHz	
	80MHz	
	160MHz	

5.7 Transmitting burst length

Test Requirement:	MIC Item 19-3 of Article 2 Paragraph 1
Limit:	8ms or less
Test Procedure:	Test Method for Radio Equipment mentioned in Certification Regulations Article 2, Item 19-3 MIC Notice No.88 Annex45 Clause 10
Test Configuration:	 <pre> graph LR EUT[EUT] --> SA[Spectrum Analyzer] </pre>
Remarks: The spectrum analyzer could be connected to a monopole antenna or directly connected to the EUT, if the EUT has already employing an antenna connector.	

Test result:

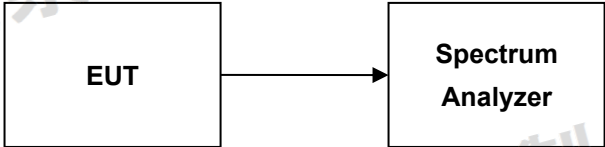
Pass

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

For details, see Appendix of 251124023SZN-002-Appendix E.

Measurement Uncertainty: $\pm 0.19\%$.

5.8 Frequency Tolerance

Test Requirement:	MIC Item 19-3 of Article 2 Paragraph 1
	Tolerance of frequency: $\pm 20 \times 10^{-6}$ (± 20 ppm)
Test Procedure:	Test Method for Radio Equipment mentioned in Certification Regulations Article 2, Item 19-3 MIC Notice No.88 Annex45 Clause 3
Test Configuration:	 <pre> graph LR EUT[EUT] --> SA[Spectrum Analyzer] </pre>
Remarks: The spectrum analyzer could be connected to a monopole antenna or directly connected to the EUT, if the EUT has already employing an antenna connector.	

Test result:

Pass

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

For details, see Appendix of 251124023SZN-002-Appendix A.

Measurement Uncertainty: ± 53.50 Hz.

5.9 Occupied Bandwidth (99%)

Test Requirement:	MIC Item 19-3 of Article 2 Paragraph 1	
Limit:	Operating system	Occupied Bandwidth Limit
	20MHz system	20MHz or less
	40MHz System	40MHz or less
	80MHz System	80MHz or less
	160MHz System	160MHz or less
Test Procedure:	Test Method for Radio Equipment mentioned in Certification Regulations Article 2, Item 19-3 MIC Notice No.88 Annex45 Clause 4	
Test Configuration:	EUT Spectrum Analyzer	
Remark: The spectrum analyzer could be connected to a monopole antenna or directly connected to the EUT, if the EUT has already employing an antenna connector.		

Test result:

Pass

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

For details, see Appendix of 251124023SZN-002-Appendix B.

Measurement Uncertainty: $\pm 3.46\%$.

5.10 Leak Power of Neighboring Channels

Test Requirement:	MIC Item 19-3 of Article 2 Paragraph 1			
Limit:	Test Condition	Measurement Bandwidth	detuning	Limit
	OBW≤18MHz	18MHz	20MHz	-25dB or less
			40MHz	-40dB or less
	18MHz≤OBW≤20MHz	20MHz	20MHz	-25dB or less
			40MHz	-40dB or less
	20MHz≤OBW≤40MHz	40MHz	40MHz	-25dB or less
			80MHz	-40dB or less
40MHz≤OBW≤80MHz	80MHz	80MHz	-25dB or less	
80MHz≤OBW≤160MHz	N/A	N/A	N/A	
Test Procedure:	Test Method for Radio Equipment mentioned in Certification Regulations Article 2, Item 19-3 MIC Notice No.88 Annex45 Clause 7			
Test Configuration:	EUT Spectrum Analyzer			
Remark: The spectrum analyzer could be connected to a monopole antenna or directly connected to the EUT, if the EUT has already employing an antenna connector.				

Test result: PASS

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

For test graphs, see Appendix of 251124023SZN-002-Appendix D.

Measurement Uncertainty: ±0.31 dB

5.11 Leak Power Out of Band

Test Requirement: MIC Item 19-3 of Article 2 Paragraph 1

20MHz system		W52	
OBW : 18MHz or less	OBW : 18 - 20 MHz	40MHz system	80MHz system
5,142 MHz or less : 2.5 μ W/MHz	5,142 MHz or less : 2.5 μ W/MHz	5,141.6 MHz or less : 2.5 μ W/MHz	5,123.2 MHz or less : 2.5 μ W/MHz
5,142 - 5,150 MHz : 15 μ W/MHz	5,142 - 5,150 MHz : 15 μ W/MHz	5,141.6 - 5,150 MHz : 15 μ W/MHz	5,123.2 - 5,150 MHz : 15 μ W/MHz
5,250 - 5,250.2 MHz : $10^{1-(0/30)(f-9.75)}$ mW/MHz	5,250.2 - 5,251 MHz : $10^{1-(f-9.75)}$ mW/MHz	5,250 - 5,251 MHz : $10^{-(f-20)+\log(1/2)}$ mW/MHz	5,250 - 5,251 MHz : $10^{-(f-40)+\log(1/4)}$ mW/MHz
5,251 - 5,260 MHz : $10^{-1-(0/30)(f-11)}$ mW/MHz	5,251 - 5,260 MHz : $10^{-1-(f-11)}$ mW/MHz	5,251 - 5,270 MHz : $10^{-(0/30)(f-21)-1+\log(1/2)}$ mW/MHz	5,251 - 5,290 MHz : $10^{-(0/30)(f-41)-1+\log(1/4)}$ mW/MHz
5,260 - 5,266.7 MHz : $10^{-1.8-(0/30)(f-20)}$ mW/MHz	5,260 - 5,266.7 MHz : $10^{-1.8-(0/30)(f-20)}$ mW/MHz	5,270 - 5,278.4 MHz : $10^{-(3/30)(f-40)-1.8+\log(1/2)}$ mW/MHz	5,290 - 5,296.7 MHz : $10^{-(3/30)(f-80)-1.8+\log(1/4)}$ mW/MHz
5,266.7 MHz or more : 2.5 μ W/MHz	5,266.7 MHz or more : 2.5 μ W/MHz	5,278.4 MHz or more : 2.5 μ W/MHz	5,296.7 MHz or more : 2.5 μ W/MHz
f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5230 (MHz)	f = MHz, Difference from 5210 (MHz)

20MHz system		W53	
OBW : 18MHz or less	OBW : 18 - 20 MHz	40MHz system	80MHz system
5,233.3 MHz or less : 2.5 μ W/MHz	5,233.3 MHz or less : 2.5 μ W/MHz	5,221.6 MHz or less : 2.5 μ W/MHz	5,203.3 MHz or less : 2.5 μ W/MHz
5,233.3 - 5,240 MHz : $10^{-1.8-(0/30)(f-20)}$ mW/MHz	5,233.3 - 5,240 MHz : $10^{-1.8-(0/30)(f-20)}$ mW/MHz	5,221.6 - 5,230 MHz : $10^{-(3/30)(f-40)-1.8+\log(1/2)}$ mW/MHz	5,203.3 - 5,210 MHz : $10^{-(3/30)(f-80)-1.8+\log(1/4)}$ mW/MHz
5,240 - 5,249 MHz : $10^{-3-(0/30)(f-11)}$ mW/MHz	5,240 - 5,249 MHz : $10^{-3-(0/30)(f-11)}$ mW/MHz	5,230 - 5,249 MHz : $10^{-(0/30)(f-21)-3+\log(1/2)}$ mW/MHz	5,210 - 5,249 MHz : $10^{-(0/30)(f-41)-3+\log(1/4)}$ mW/MHz
5,249 - 5,250 MHz : $10^{1-(f-9)}$ mW/MHz	5,249 - 5,249.8 MHz : $10^{1-(f-9)}$ mW/MHz	5,249 - 5,250 MHz : $10^{-(f-20)+\log(1/2)}$ mW/MHz	5,249 - 5,250 MHz : $10^{-(f-40)+\log(1/4)}$ mW/MHz
5,250 - 5,250.2 MHz : $10^{1-(0/30)(f-9.75)}$ mW/MHz	5,249.8 - 5,250 MHz : $10^{1-(0/30)(f-9.75)}$ mW/MHz	5,350 - 5,358.4 MHz : 15 μ W/MHz	5,350 - 5,376.8 MHz : 15 μ W/MHz
5,350 MHz or more : 2.5 μ W/MHz	5,350 MHz or more : 2.5 μ W/MHz	5,358.4 MHz or more : 2.5 μ W/MHz	5,376.8 MHz or more : 2.5 μ W/MHz
f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5260 (MHz)	f = MHz, Difference from 5270 (MHz)	f = MHz, Difference from 5290 (MHz)

20MHz system		W56	
DSSS, etc.	OFDM	40MHz system	80MHz system
5,470 MHz or less : 12.5 μ W/MHz	5,460 MHz or less : 2.5 μ W/MHz	5,460 MHz or less : 12.5 μ W/MHz	5,460 MHz or less : 12.5 μ W/MHz
	5,460 - 5,470 MHz : 12.5 μ W/MHz	5,460 - 5,470 MHz : 50 μ W/MHz	5,460 - 5,469.5 MHz : 50 μ W/MHz
	5,745 - 5,765 MHz : 12.5 μ W/MHz		5,469.5 - 5,470 MHz : 51.2 μ W/MHz
5,730 MHz or more : 12.5 μ W/MHz	Over 5,765 MHz : 2.5 μ W/MHz	5,770 MHz or more : 12.5 μ W/MHz	5,770 MHz or more : 12.5 μ W/MHz

Test Procedure: Test Method for Radio Equipment mentioned in Certification Regulations Article 2, Item 19-3 MIC Notice No.88 Annex 45 Clause 7

Test Configuration:



Remark:

1. The spectrum analyzer could be connected to a monopole antenna or directly connected to the EUT, if the EUT has already employing an antenna connector.
2. Measured by including the antenna gain in the SA offset.

Test result: PASS

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

For test graphs, see Appendix F&G of 251124023SZN-002-Appendix F.

Measurement Uncertainty: ± 0.55 dB

5.12 Antenna Power & EIRP

Test Requirement: MIC Item 19-3 of Article 2 Paragraph 1

Antenna Power Limit:

Operating System	20MHz system	40MHz system	80MHz system	160MHz system
Limit	10mW/MHz or less	5mW/MHz or less	2.5mW/MHz or less	1.25mW/MHz or less

Antenna Power Tolerance Limit:

W52&W53 Band: -80% to +20%;

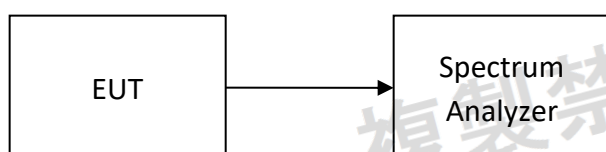
W56 Band: $\pm 50\%$.

EIRP Limit:

Operating System	Limit		
	W52	W53	W56
20MHz system	10mW/MHz	10mW/MHz: with TPC 5mW/MHz: without TPC	50mW/MHz: with TPC 25mW/MHz: without TPC
40MHz system	5mW/MHz	5mW/MHz: with TPC 2.5mW/MHz: without TPC	25mW/MHz: with TPC 12.5mW/MHz: without TPC
80MHz system	2.5mW/MHz	2.5mW/MHz: with TPC 1.25mW/MHz: without TPC	12.5mW/MHz: with TPC 6.25mW/MHz: without TPC
160MHz system	1.25mW/MHz	1.25mW/MHz: with TPC 0.625mW/MHz: without TPC	6.25mW/MHz: with TPC 3.125mW/MHz: without TPC

Test Procedure: Test Method for Radio Equipment mentioned in Certification Regulations Article 2, Item 19-3 MIC Notice No.88 Annex45 Clause 6.

Test Configuration:



Remark:

1. The spectrum analyzer could be connected to a monopole antenna or directly connected to the EUT, if the EUT has already employing an antenna connector.
2. The test result is the EIRP value, and the antenna gain has been considered during the test.

Test result: PASS

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

For test graphs, see Appendix of 251124023SZN-002-Appendix C.

Measurement Uncertainty: ± 1.19 dB

5.13 Spurious Emissions of Tx

Test Requirement: MIC Item 19-3 of Article 2 Paragraph 1

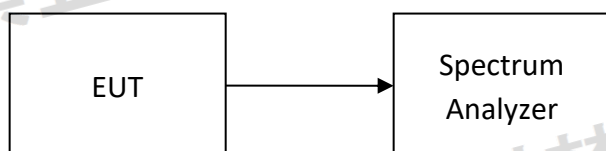
Operating System	Operating Frequency Rang	Frequency (MHz)	Limit (EIRP)
20MHz system	W52	$f \leq 5142\text{MHz}$, $f \geq 5266.7\text{MHz}$	$\leq 2.5\text{uW/MHz}$
	W53	$f \leq 5233.3\text{MHz}$, $f \geq 5350\text{MHz}$	
	W56	$f \leq 5460\text{MHz}$, $f \geq 5765\text{MHz}$	
40MHz system	W52	$f \leq 5141.6\text{MHz}$, $f \geq 5278.4\text{MHz}$	$\leq 12.5\text{uW/MHz}$
	W53	$f \leq 5221.6\text{MHz}$, $f \geq 5358.4\text{MHz}$	
	W56	$f \leq 5460\text{MHz}$, $f \geq 5770\text{MHz}$	
80MHz system	W52	$f \leq 5123.2\text{MHz}$, $f \geq 5296.7\text{MHz}$	$\leq 2.5\text{uW/MHz}$
	W53	$f \leq 5203.3\text{MHz}$, $f \geq 5376.8\text{MHz}$	
	W56	$f \leq 5460\text{MHz}$, $f \geq 5770\text{MHz}$	
160MHz system	W52	$f \leq 5099.6\text{MHz}$, $f \geq 5400.4\text{MHz}$	$\leq 2.5\text{uW/MHz}$
	W53	$f \leq 5099.6\text{MHz}$, $f \geq 5400.4\text{MHz}$	
	W56	$f \leq 5419.6\text{MHz}$, $f \geq 5725\text{MHz}$	

Note:

1. Measurement range: 30MHz to 26GHz
2. $2.5\text{uW} = -26\text{dBm}$, $12.5\text{uW} = -19\text{dBm}$.

Test Procedure: Test Method for Radio Equipment mentioned in Certification Regulations Article 2, Item 19-3 MIC Notice No.88 Annex45 Clause 5

Test Configuration:



Remark:

1. The spectrum analyzer could be connected to a monopole antenna or directly connected to the EUT, if the EUT has already employing an antenna connector.
2. Measured by including the antenna gain in the SA offset.
Ant1: 7.10dBi
Ant2: 6.40dBi

Test result:

Pass

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

For details, see Appendix F&G of 251124023SZN-002-Appendix F.

Measurement Uncertainty: $\pm 0.55\text{ dB}$

5.14 Spurious Emissions of Rx

Test Requirement: MIC Item 19-3 of Article 2 Paragraph 1

- (1) Below 1 GHz: 4 nW(-54dBm)
- (2) 1 GHz and over: 20 nW(-47dBm)

Test Procedure: Test Method for Radio Equipment mentioned in Certification Regulations Article 2,
Item 19-3 MIC Notice No.88 Annex45 Clause 8

Test Configuration:



Remark: The spectrum analyzer could be connected to a monopole antenna or directly connected to the EUT, if the EUT has already employing an antenna connector.

Test result:

Pass

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

For details, see Appendix F&G of 251124023SZN-002-Appendix G.

Measurement Uncertainty: ± 0.55 dB

5.15 Dynamic Frequency Selection

Test Requirement: MIC Item 19-3 of Article 2 Paragraph 1

Items	Description of Test	Result
Detection Bandwidth	UNII Detection Bandwidth	Compliant
Performance Requirements Check	Initial Channel Availability Check Time (CAC)	Compliant
	Radar Burst at the Beginning of the CAC	Compliant
	Radar Burst at the End of the CAC	Compliant
In-Service Monitoring	Channel Move Time	Compliant
	Channel Closing Transmission Time	Compliant
	Non-Occupancy Period	Compliant
Radar Detection	Statistical Performance Check	Compliant

DFS Parameters

DFS requirement values	
Parameter	Value
Channel Availability Check Time	60 sec
Channel Move Time	10 sec
Channel Closing Transmission Time	0.26sec
Non-occupancy period	Minimum 30 minutes

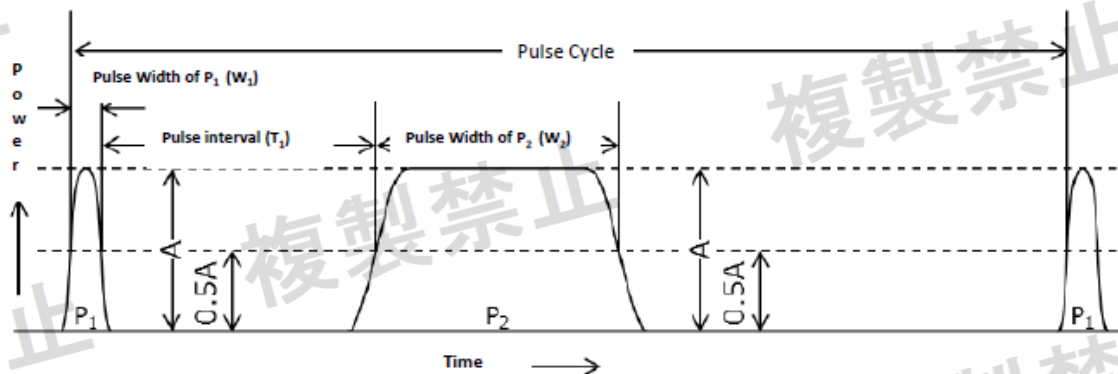
Parameters of DFS Test Signals

Annex 1-a (Radar classification & detection probability) : 5250~5350MHz

Classification	Pulse width		Repetition frequency		Minimum number of consecutive pulses	Detection probability
	minimum value	maximum value	minimum value	maximum value		
1	0.5 μ s	5 μ s	200 Hz	1000 Hz	10	60% or more
2	0.5 μ s	15 μ s	200 Hz	1600 Hz	15	60% or more
3	0.5 μ s	5 μ s	200 Hz	1000 Hz	"Repetition frequency x 0.026" (Round up to less than 1), or "22", whichever is larger, or "30", whichever is smaller	60% or more
4	0.5 μ s	15 μ s	200 Hz	1600 Hz	"Repetition frequency x 0.026" (Round up to less than 1), or "22", whichever is larger, or "30", whichever is smaller	60% or more
5	0.5 μ s	1.5 μ s	1114 Hz	1118 Hz	30	60% or more
6	0.5 μ s	1.5 μ s	928 Hz	932 Hz	25	60% or more
7	0.5 μ s	1.5 μ s	886 Hz	890 Hz	24	60% or more
8	0.5 μ s	1.5 μ s	738 Hz	742 Hz	20	60% or more

Note 1: The detection probability is the total transmission time in any 100ms from the master station radio equipment (connection method is limited to carrier sense multiple access type) to the slave station radio equipment. It refers to the case of performing transmission of 30ms or more.

Note 2: In this table, "pulse width" is the pulse width of P_1 " W_1 " in the following figure, and "repetition frequency" is the reciprocal of the pulse cycle in the following figure. Also, the pulse width and frequency are any one value between the minimum value and the maximum value.



Note 3 In this figure, "A" indicates the maximum power of P_1 and P_2 , and the shift width of frequency (hereinafter referred to as "chirp width") for performing linear frequency modulation during the pulse period, the pulse interval of P_1 " T_1 ". The difference between the pulse width of P_2 " W_2 " and the pulse width of P_1 " W_1 " and the pulse width of P_2 " W_2 " and the pulse width of P_1 " W_1 " multiplied by the repetition frequency (hereinafter referred to as "duty ratio") are as follows: about. In addition, each pulse interval and each pulse width are made into the rise time of each pulse which makes electric power 0.5A base point, and the fall time of each pulse.

(1) Classification 3 or 4

Chirp width	Range of ± 0.5 MHz to 1.0MHz
Pulse interval of P_1 : T_1	70 μ s or more
Pulse width of P_2 : W_2	20 μ s or more, 110 μ s or less
The difference between the pulse width of P_1 and the pulse width of P_2 by the following equation $ W_2 - W_1 $	15 μ s or more
Duty ratio	Less than 10%

(2) Classification 5 ~ 8

Chirp width	Range of ± 0.5 MHz to 1.0MHz
Pulse interval of P_1 : T_1	50 μ s or more
Pulse width of P_2 : W_2	28.5 μ s or more, 33.6 μ s or less

Annex 1-b (Radar classification & detection probability) : 5470~5730MHz

The radio wave which a radar transmits *Un-modulated pulse				Detection probability
Classification	Pulse width	Repetition frequency	The number of continuous pulses	
1	0.5 μ s	720 Hz	18	60% or more
2	1 μ s	700 Hz	18	60% or more
3	2.0 μ s	250 Hz	18	60% or more
4	1 μ s $\leq$ X $\leq$ 5 μ s ("1 μ s"or"width which added the integral multiple of 1 μ s to 1 μ s")	4,347Hz $\leq$ X $\leq$ 6,667Hz (arbitrary frequency of 1)	23 $\leq$ X $\leq$ 29 (arbitrary integer of 1)	60% or more
5	6 μ s $\leq$ X $\leq$ 10 μ s ("6 μ s"or"width which added the integral multiple of 1 μ s to 6 μ s")	2,000Hz $\leq$ X $\leq$ 5,000Hz (arbitrary frequency of 1)	16 $\leq$ X $\leq$ 18 (arbitrary integer of 1)	60% or more
6	11 μ s $\leq$ X $\leq$ 20 μ s ("11 μ s"or"width which added the integral multiple of 1 μ s to 11 μ s")	2,000Hz $\leq$ X $\leq$ 5,000Hz (arbitrary frequency of 1)	12 $\leq$ X $\leq$ 16 (arbitrary integer of 1)	60% or more

*1 In the transmission of the 17% of maximum signal access speed (an error correction and a control signal are not included), when the master station is transmitting to the slave station.

*2 The average value of the "detection probability" for every classification of the radio wave which a radar transmits shall be "80% or more".

The radio wave which a radar transmits *Modulated pulse (Chirp radar)				Detection probability *
Classification	Pulse width	Repetition frequency	The number of continuous pulses	
1	50 μ s $\leq$ X $\leq$ 100 μ s ("50 μ s"or"width which added the integral multiple of 1 μ s to 50 μ s")	500Hz $\leq$ X $\leq$ 1,000Hz (arbitrary frequency of 1)	1 $\leq$ X $\leq$ 3 (arbitrary integer of 1)	80% or more

*1 In the transmission of the 17% of maximum signal access speed (an error correction and a control signal are not included), when the master station is transmitting to the slave station.

*2 A mass of the number of continuous pulses (burst) shall be radiated for 12 seconds.

*3 Chirp width : 5MHz $\leq$ X $\leq$ 20MHz ("5MHz" or "frequency width which added the integral multiple of 1MHz to 5MHz") In this case, "chirp width" is arbitrary to each burst, "chirp width" in the same burst shall be an equal thing.

*4 Number of burst : 8 $\leq$ X $\leq$ 20 (arbitrary integer), Burst interval : Time which divided 12 seconds by the number of burst.

*5 When there are two or more pulses within the burst of 1, the pulse width shall be an equal thing.

*6 When there are two or more pulses within the burst of 1, the "repetition frequency" must not have relevance between the "repetition frequency" of the pulse of 1, and the "repetition frequency" of the pulse of next 1.

The radio wave which a radar transmits *Modulated pulse (hopping radar)				Detection probability *
Classification	Pulse width	Repetition frequency	Number of pulses in a burst of 1	
1	1 μ s	3000 Hz	9	70% or more

*1 In the transmission of the 17% of maximum signal access speed (an error correction and a control signal are not included), when the master station is transmitting to the slave station.

*2 Burst : One mass of the number of continuous pulses

*3 Hopping frequency : 5,250MHz $\leq$ X $\leq$ 5724MHz ("5250MHz" or "the arbitrary frequency which added the integral multiple of 1MHz to 5250MHz")

*4 Switching interval of the hopping frequency : "3ms", Total switching interval of the all hopping frequency : "300ms"

*5 Burst interval : "3 ms"

DFS Threshold Level

Annex 2 (Received power of a master station)

Maximum E.I.R.P.	Received power (average)
less than 0.2W	-62dBm
0.2W or more	-64dBm

User Access Restrictions

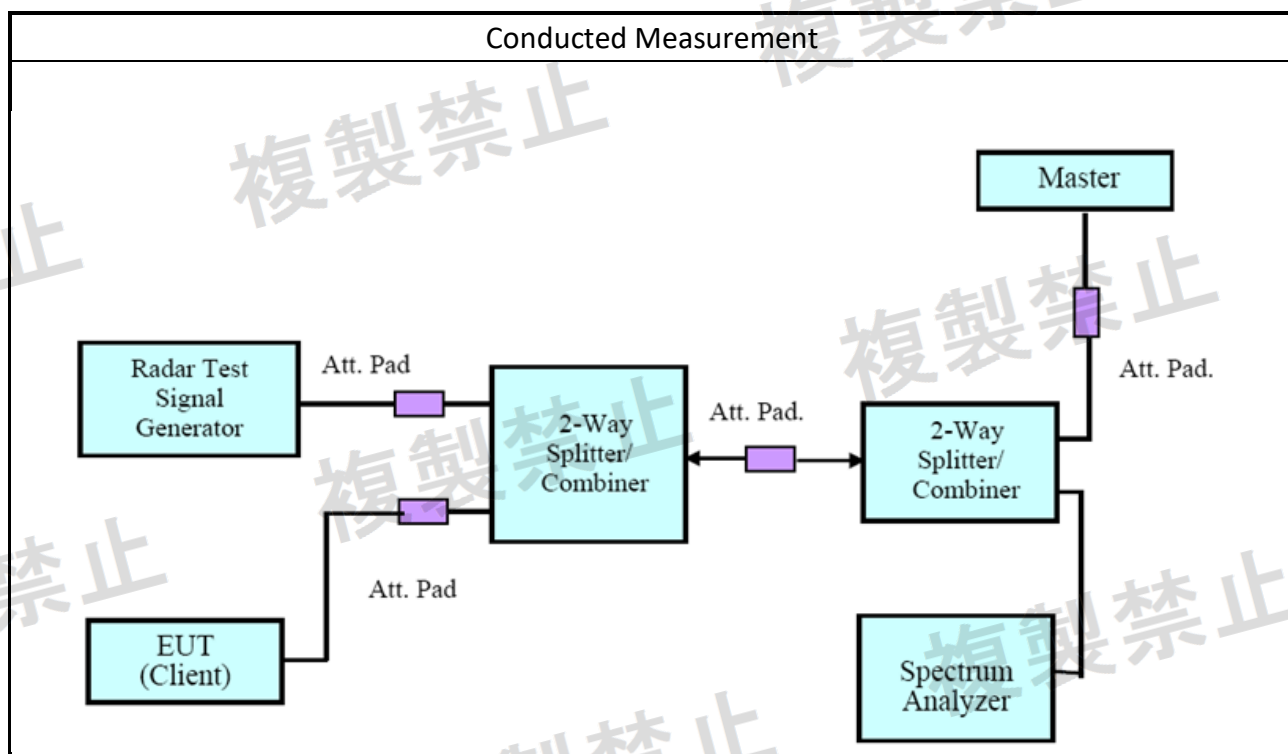
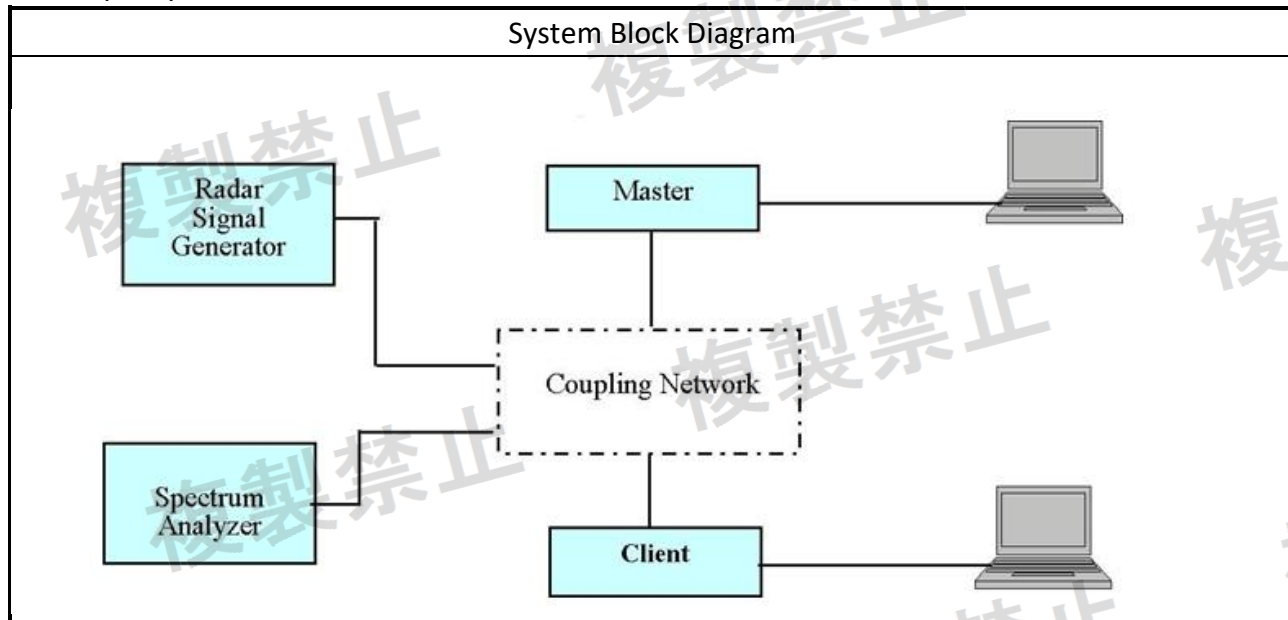
User Access Restrictions
☒ DFS controls (hardware or software) related to radar detection are NOT accessible to the user.

Channel Loading/Data Streaming

☒ Test transmission sequence is from the Master to the Slave.
☒ For W53 band (5250-5350 MHz) Monitoring of operating channel with about 50% loading over maximum signal transmission speed.
☒ For W56 band (5470-5725 MHz) Monitoring of operating channel with about 17% loading over maximum signal transmission speed.
☐ No transmissions on channels being checked during a Channel Availability Check and Confirming Available Channels.

Test Setup

A spectrum analyzer is used as a monitor verifies that the EUT status including Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the diction and Channel move.

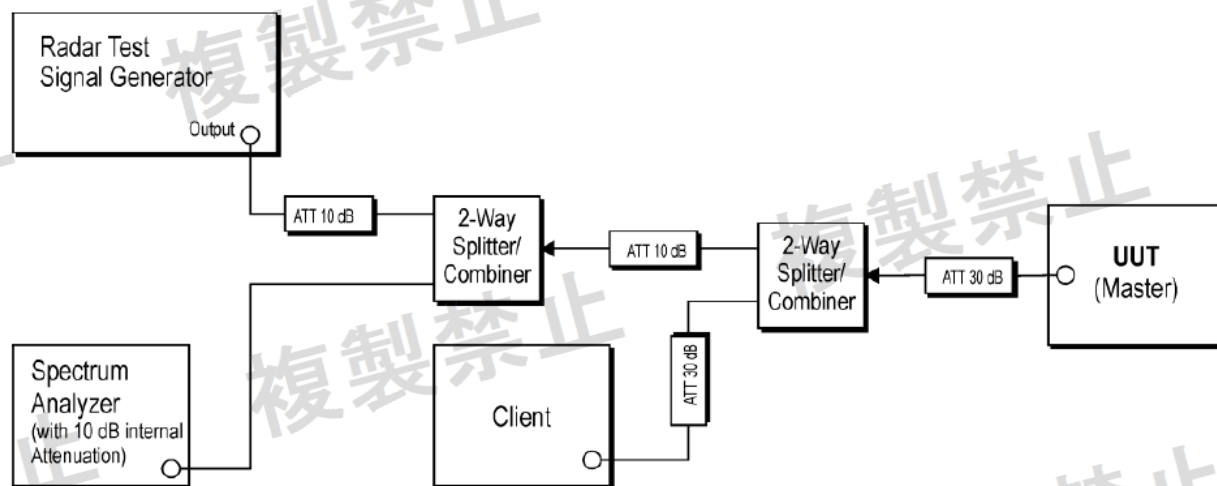


Test Procedure: Test Method for Radio Equipment mentioned in Certification Regulations Article 2,
Item 19-3 MIC Notice No.88 Annex45 Clause 8

1. Master device and client device are set up by conduction method as the following configuration.
 2. The client device is connected to notebook and to access a IP address on wireless connection with the master device.
 3. Then the master device is connected to another notebook to access a IP address.
- Finally, let the two IP addresses run traffic with each other through the Run flow software "Lan test" to reach 17% channel loading as below.

Test Configuration:

Setup for Master with injection at the Master

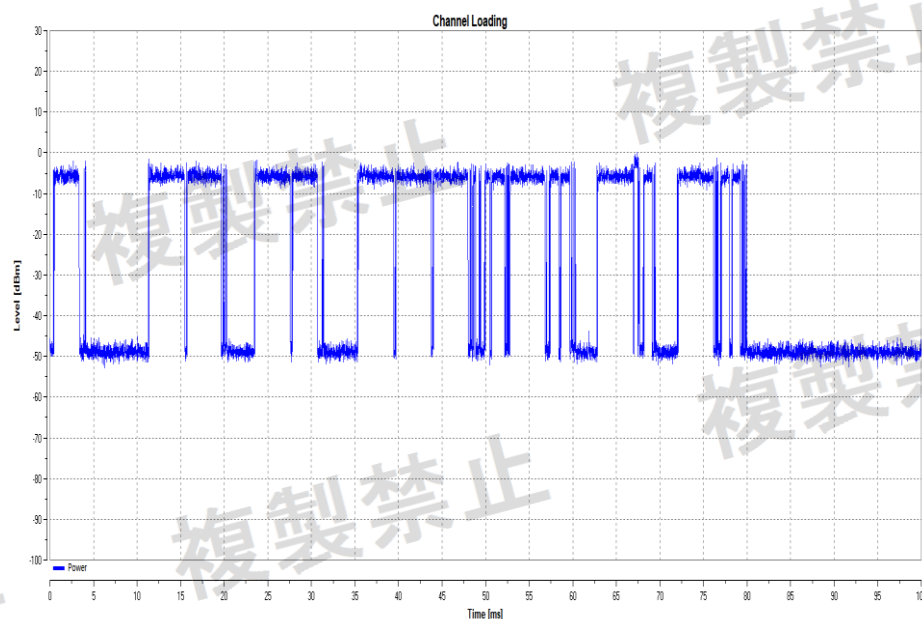


Radar Test Waveforms are injected into the Master.

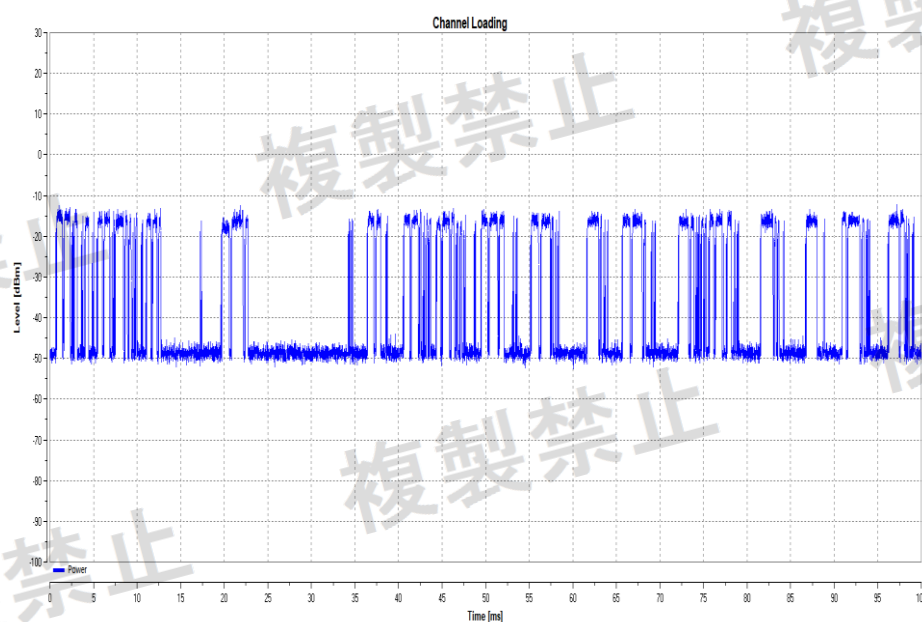
Measurement Uncertainty: $\pm 0.19\%$, ± 0.31 dB

Channel Loading

11BE20MIMO_5320



11BE160MIMO_5570



Test Mode	Frequency [MHz]	Result	Limit [%]	Verdict
11BE20MIMO	5320	51.17	50	PASS
11BE160MIMO	5570	35.93	17	PASS

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), additional combiner/dividers are inserted between the Master Combiner/Divider and the pad connected to the Master Device (and/or between the Slave Combiner/Divider and the pad connected to the Slave Device). Additional pads are utilized such that there is one pad at each RF port on each EUT.

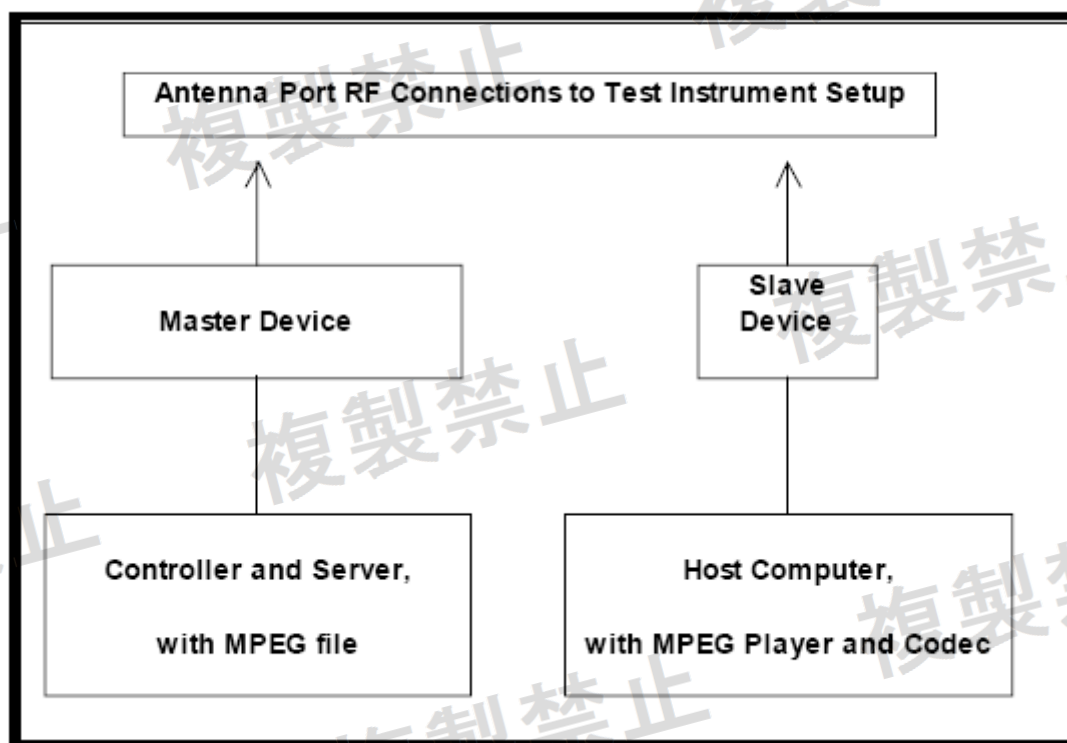
CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of -64dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from -64 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of -64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

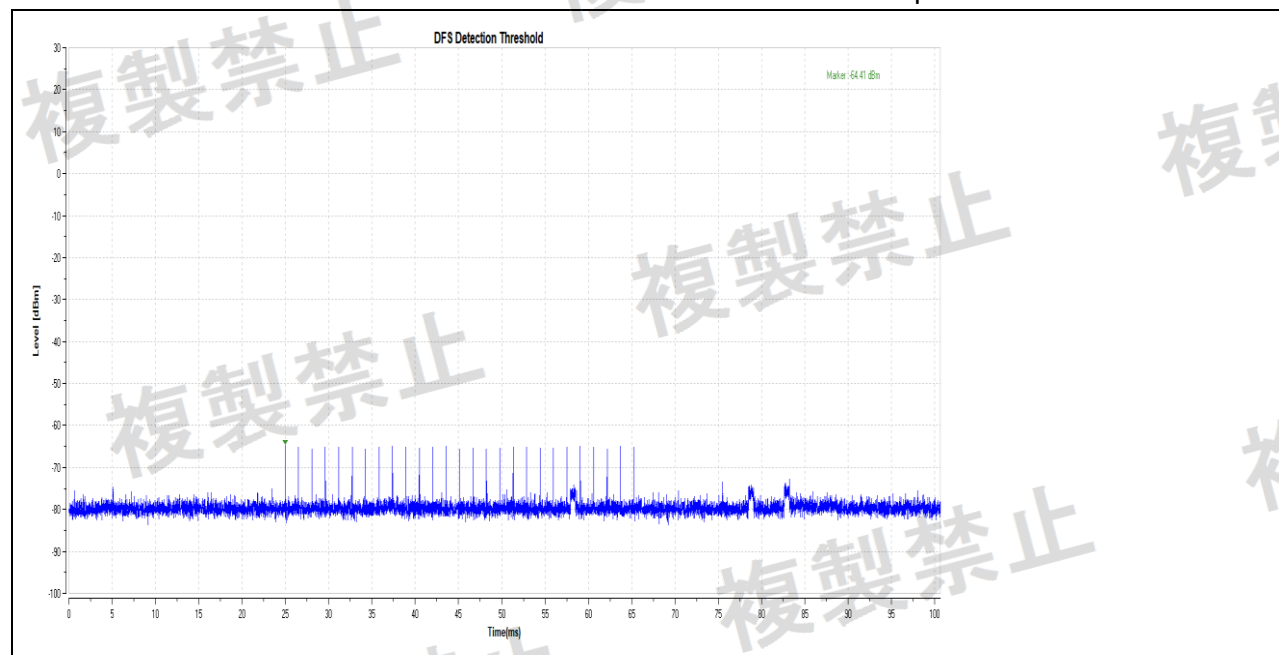
Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.



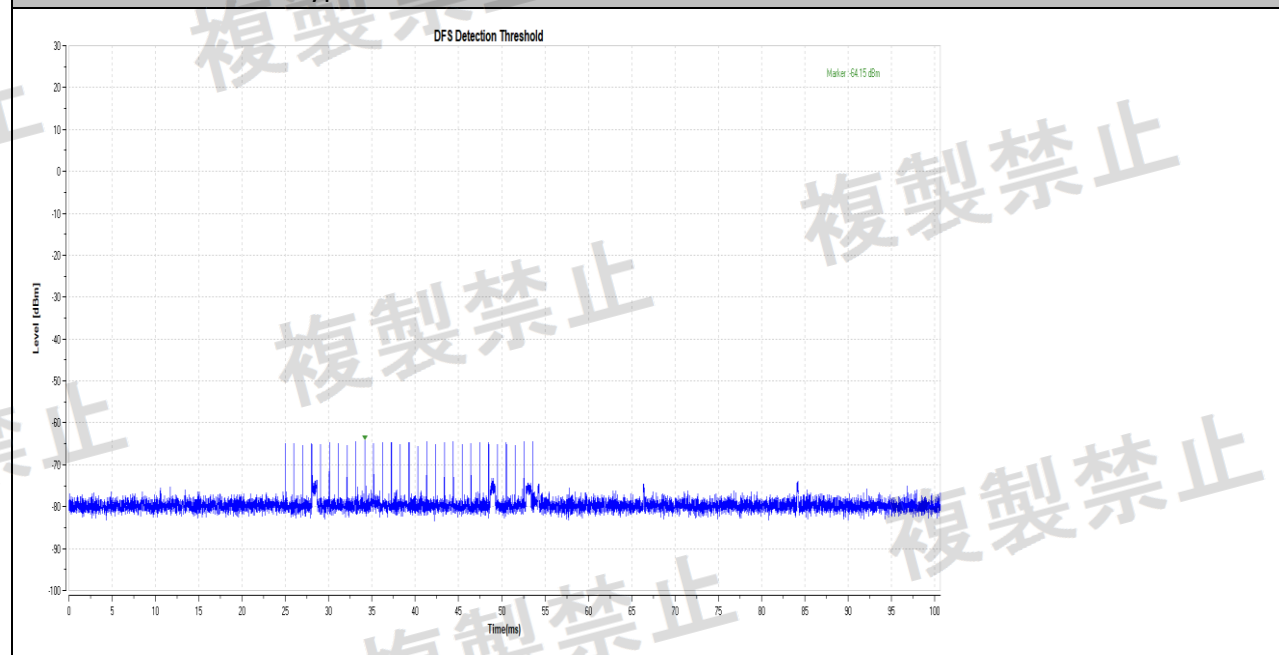
Test result: Pass

DFS DETECTION THRESHOLD

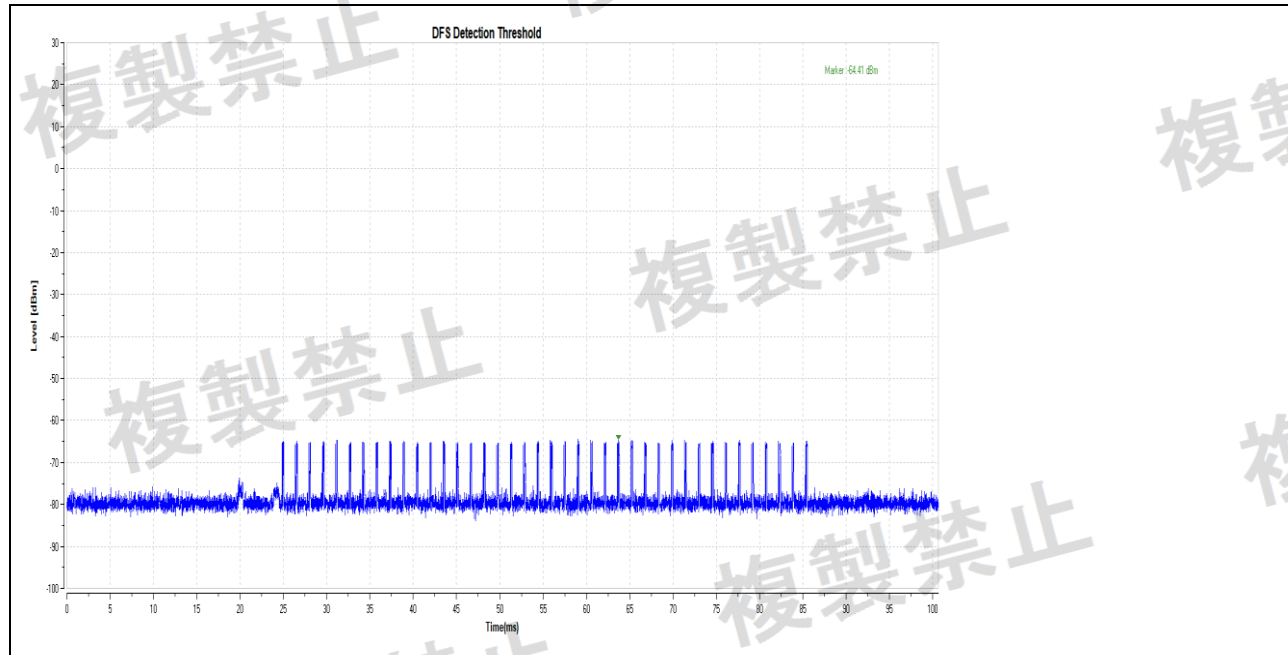
Test Mode	Frequency [MHz]	Radar Type	Result[dbm]	Limit[dbm]	Verdict
11BE20MIMO	5320	Type1	-64.41	-64.00	PASS
		Type2	-64.15	-64.00	PASS
		Type3	-64.41	-64.00	PASS
		Type4	-64.29	-64.00	PASS
		Type5	-64.05	-64.00	PASS
		Type6	-64.20	-64.00	PASS
		Type7	-64.22	-64.00	PASS
		Type8	-64.48	-64.00	PASS
11BE160MIMO	5570	Type1	-64.49	-64.00	PASS
		Type2	-64.28	-64.00	PASS
		Type3	-64.05	-64.00	PASS
		Type4	-64.30	-64.00	PASS
		Type5	-64.12	-64.00	PASS
		Type6	-64.21	-64.00	PASS
		CR	-64.23	-64.00	PASS
		FH	-64.38	-64.00	PASS



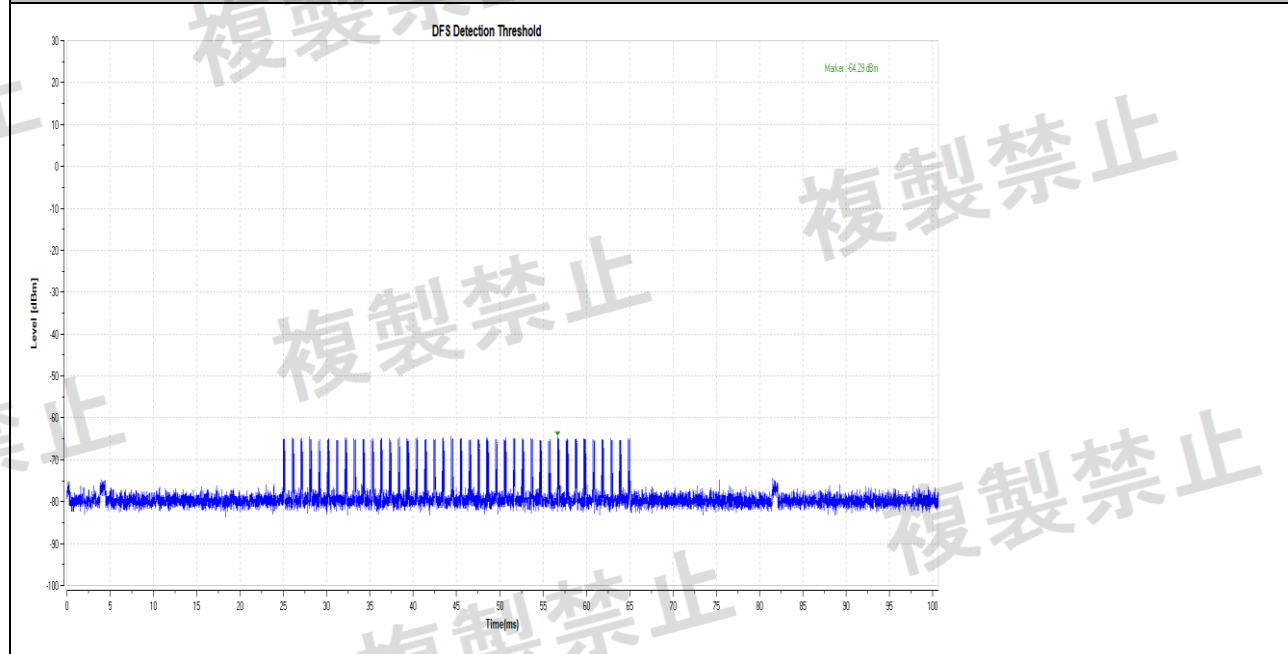
11BE20MIMO-5320-Type1-PASS



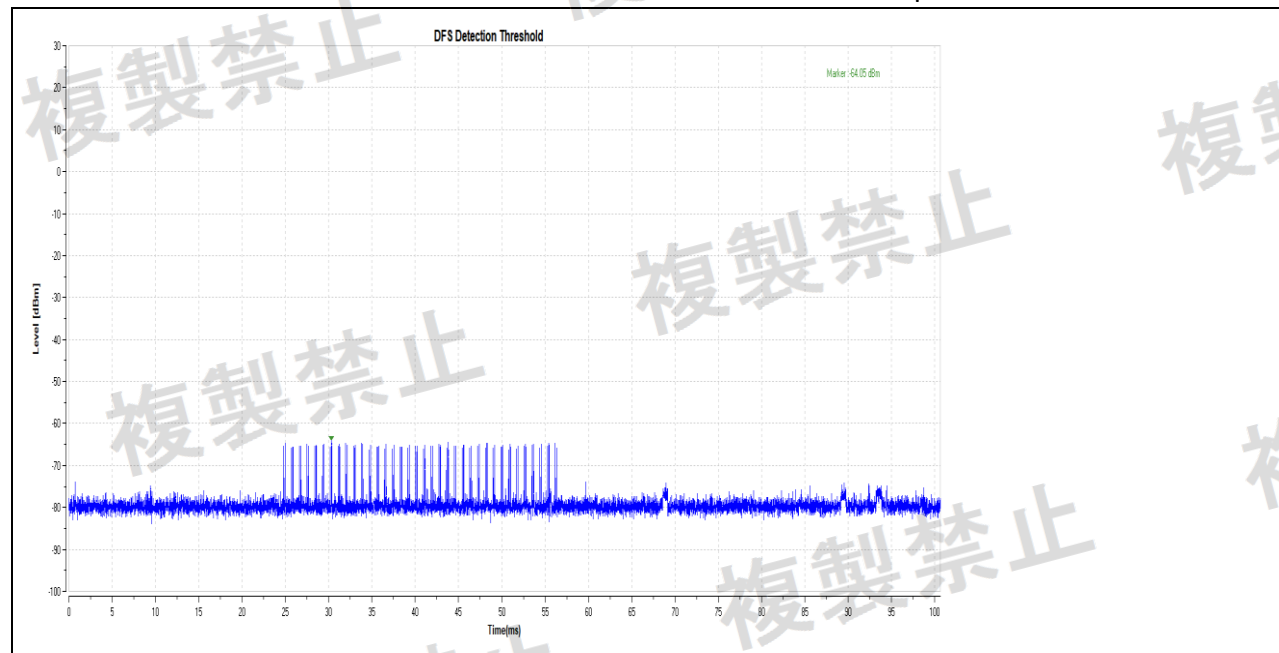
11BE20MIMO-5320-Type2-PASS



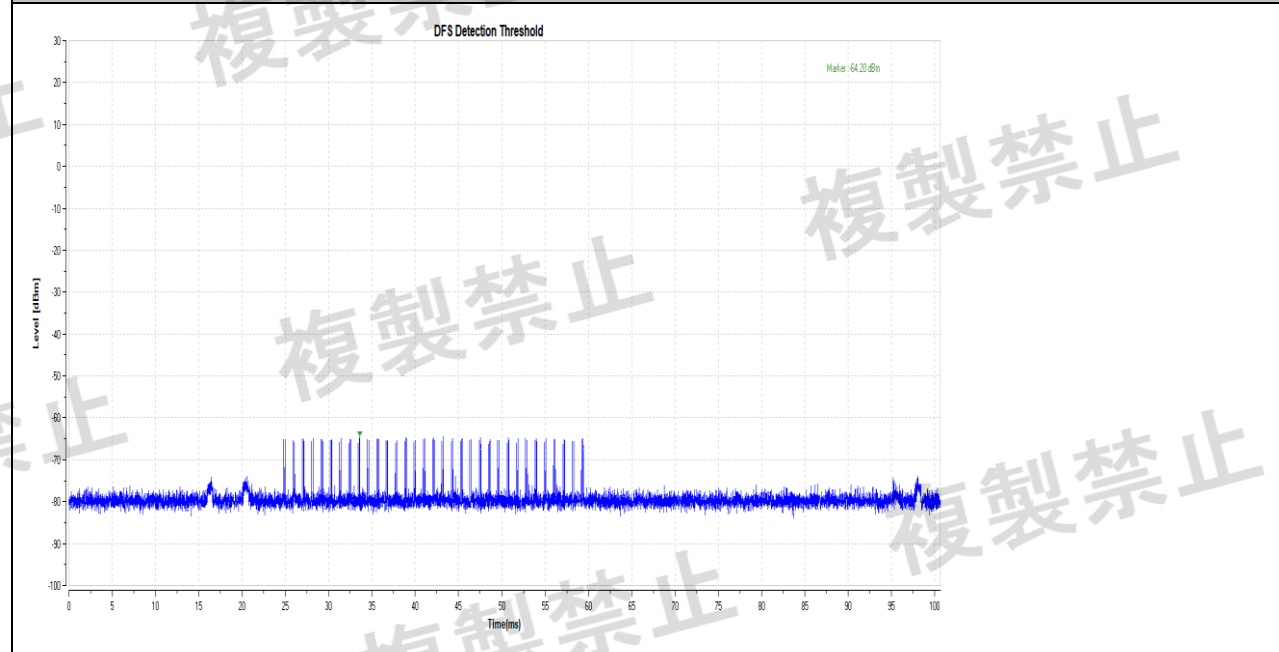
11BE20MIMO-5320-Type3-PASS



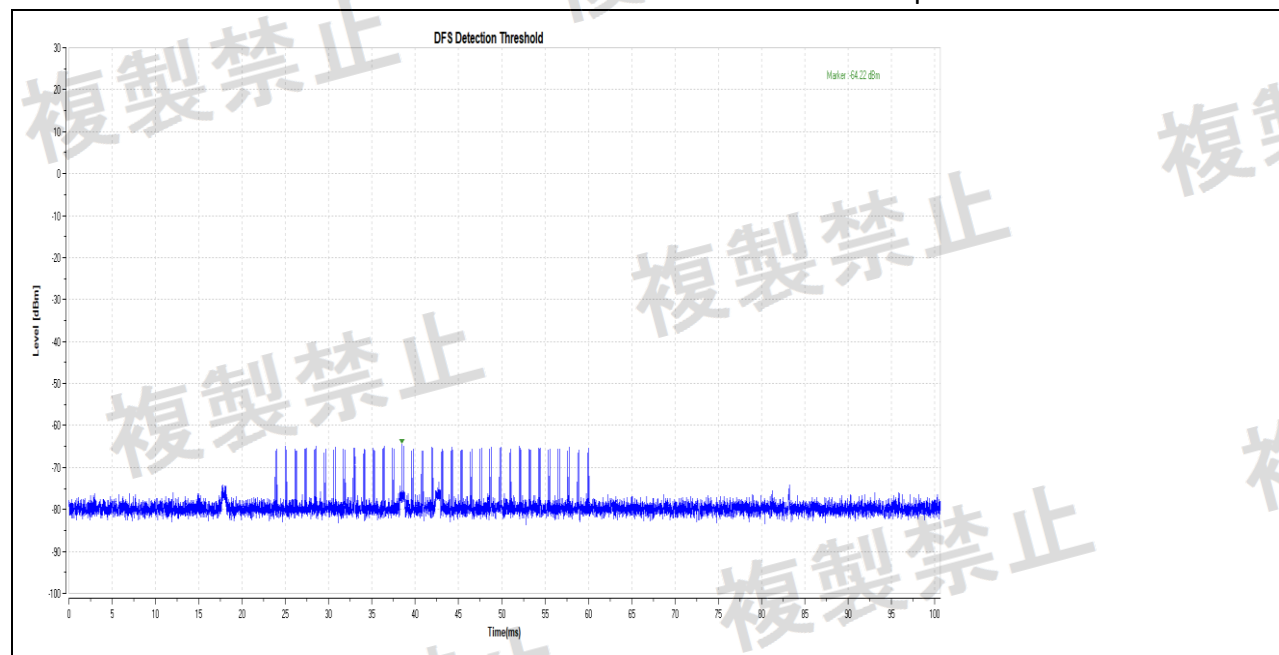
11BE20MIMO-5320-Type4-PASS



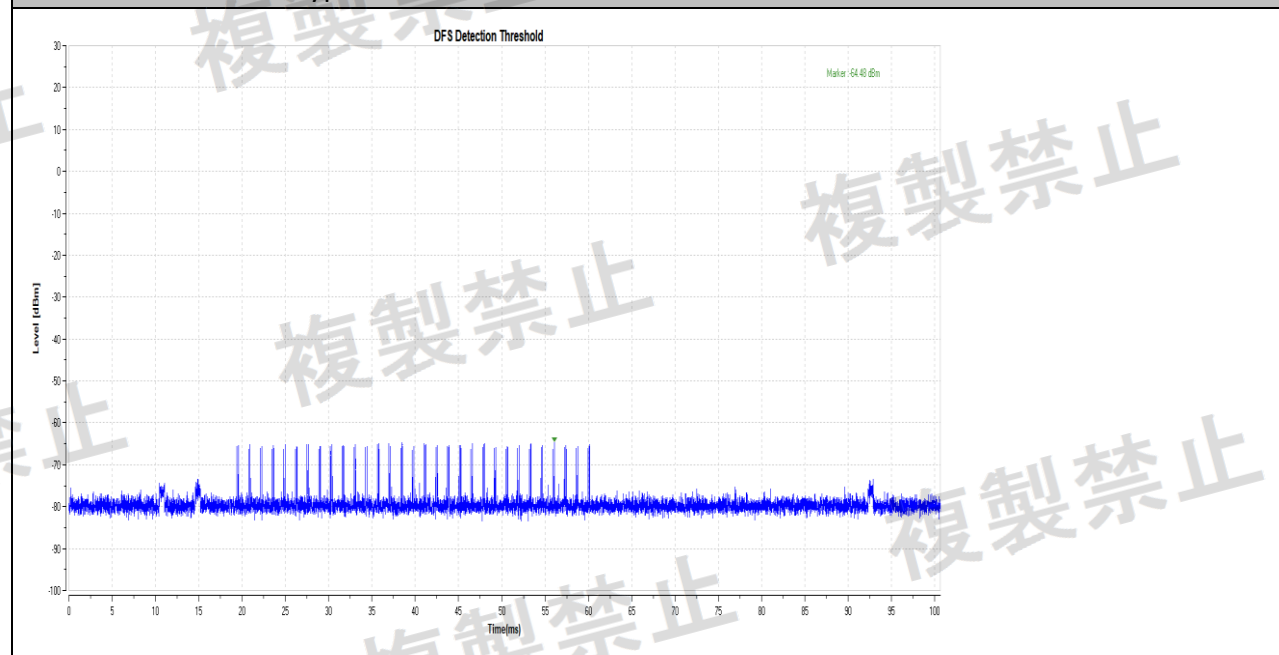
11BE20MIMO-5320-Type5-PASS



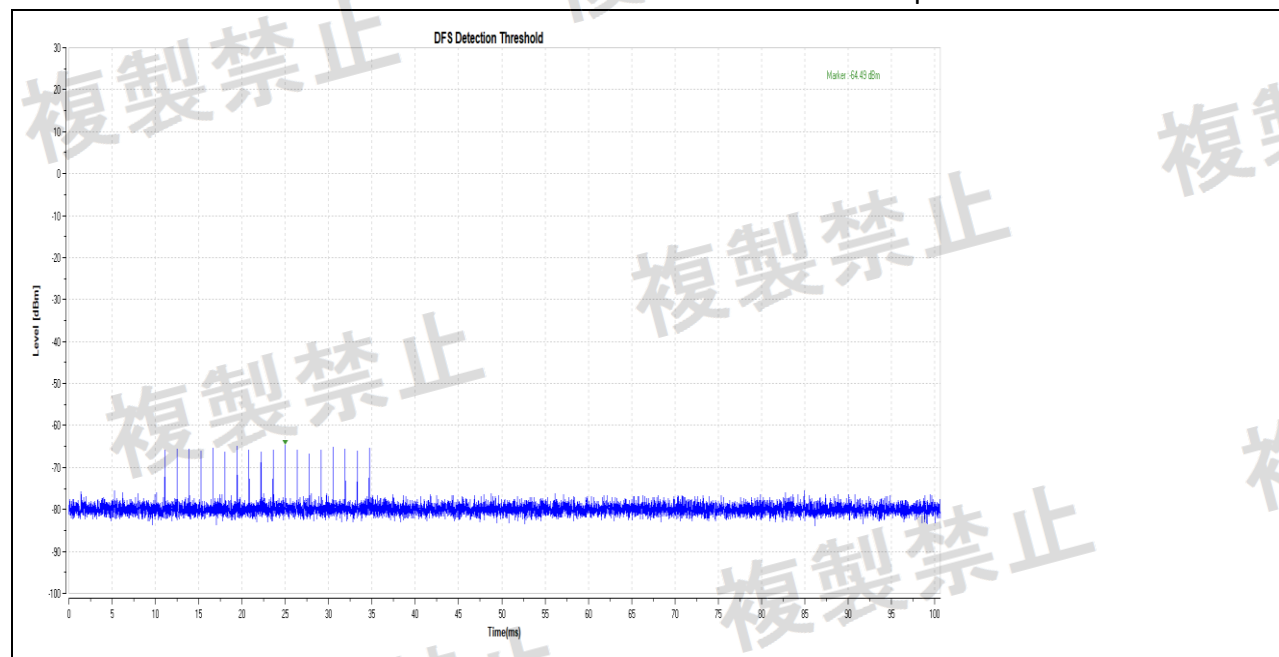
11BE20MIMO-5320-Type6-PASS



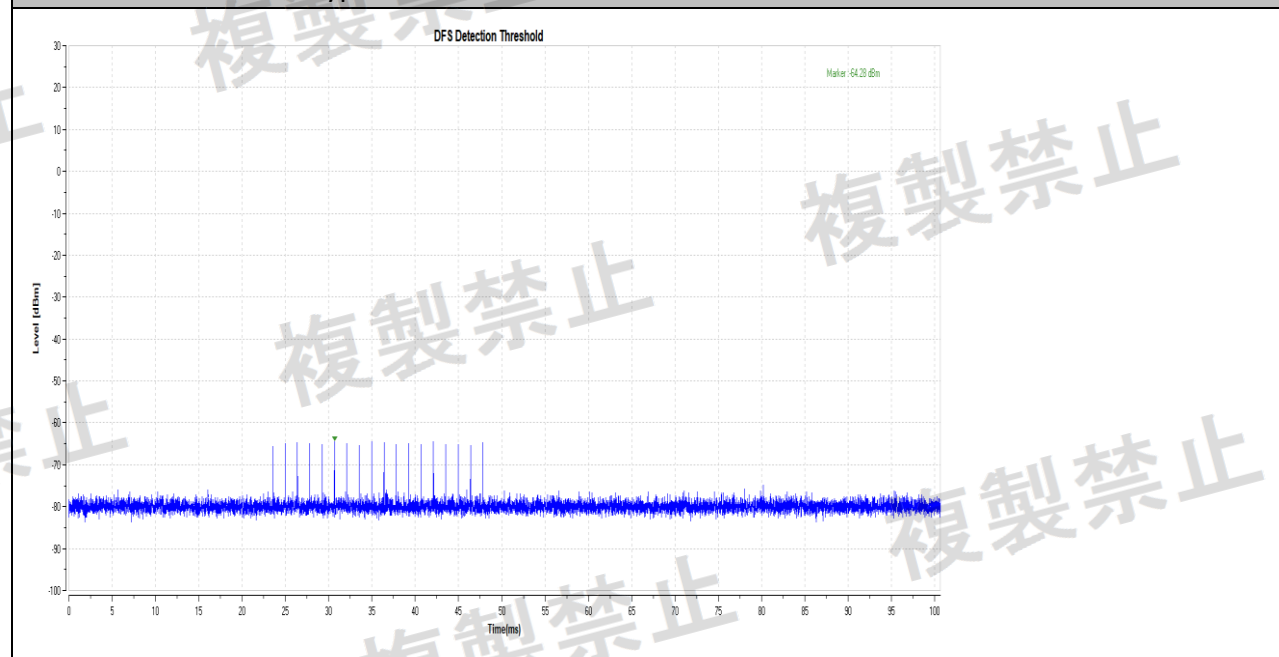
11BE20MIMO-5320-Type7-PASS



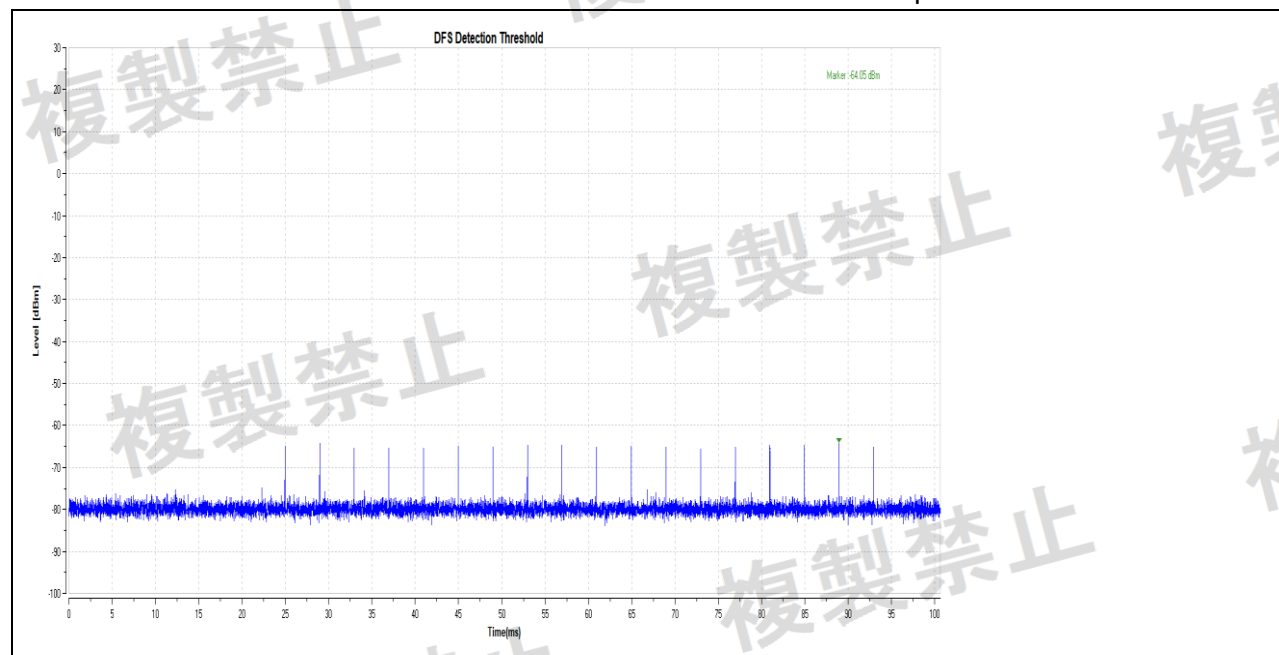
11BE20MIMO-5320-Type8-PASS



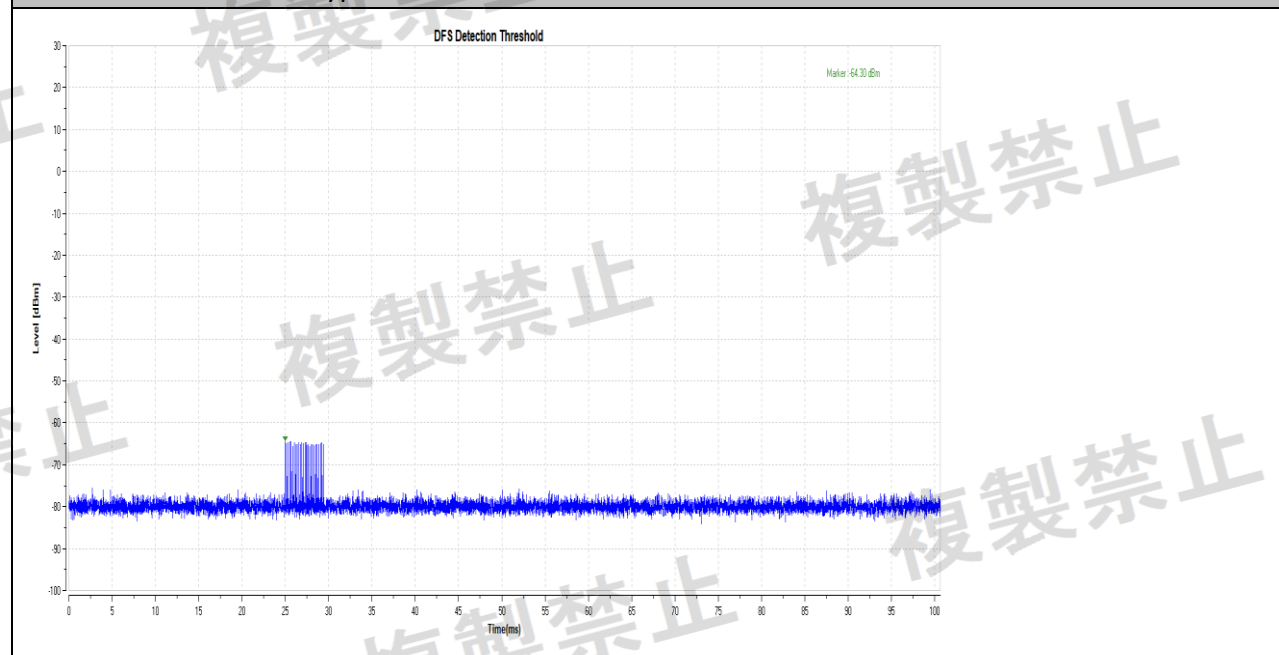
11BE160MIMO-5570-Type1-PASS



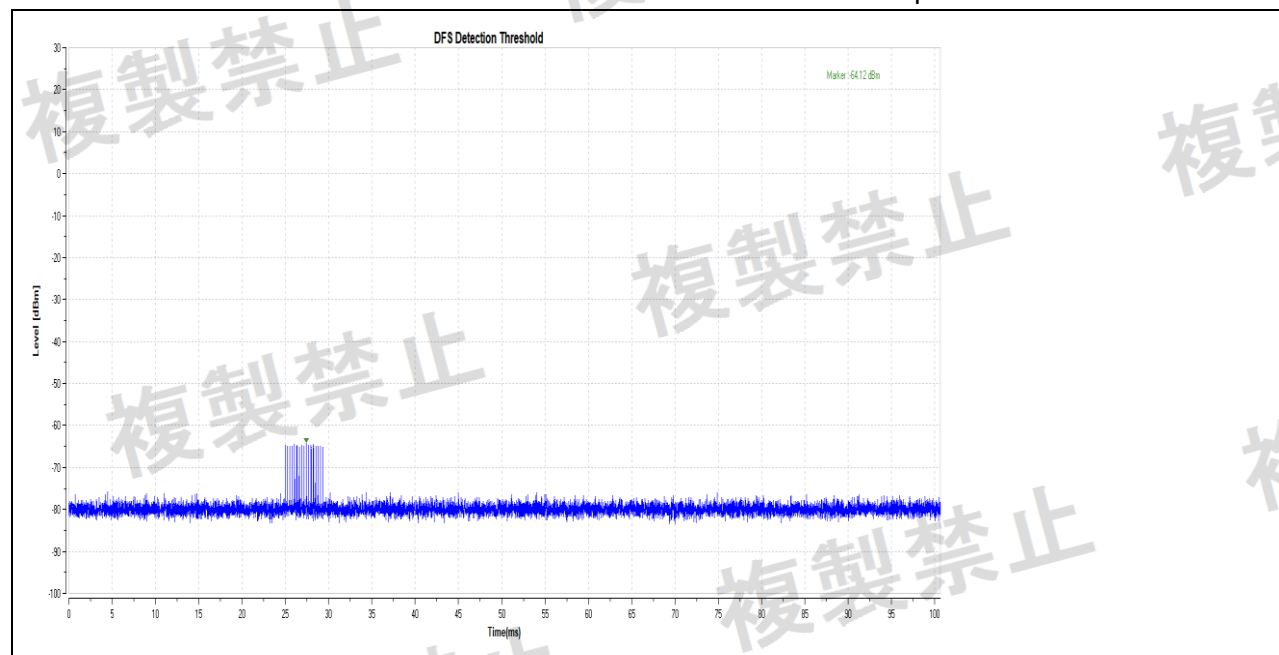
11BE160MIMO-5570-Type2-PASS



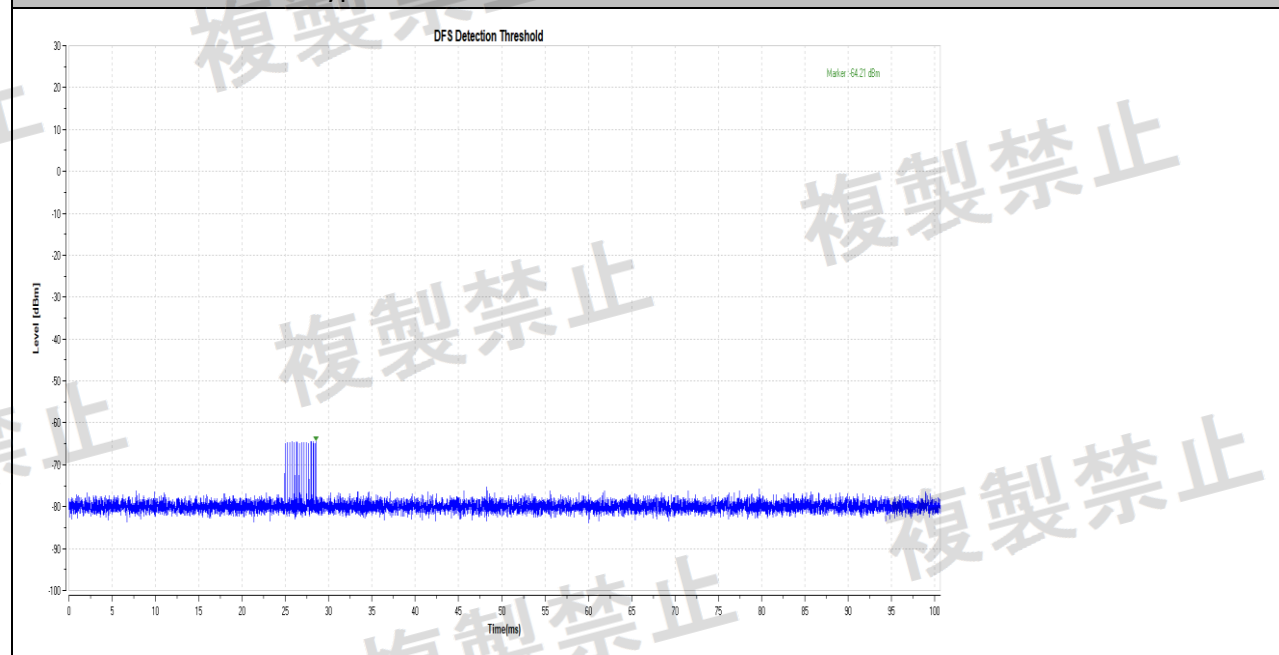
11BE160MIMO-5570-Type3-PASS



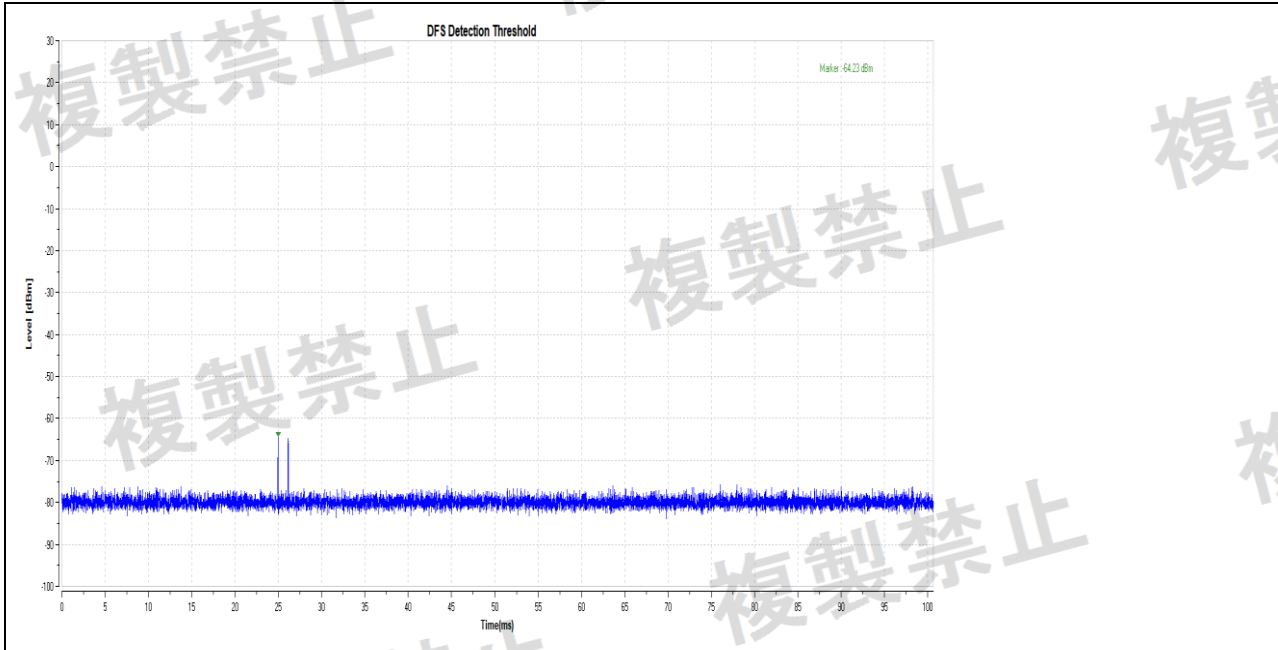
11BE160MIMO-5570-Type4-PASS



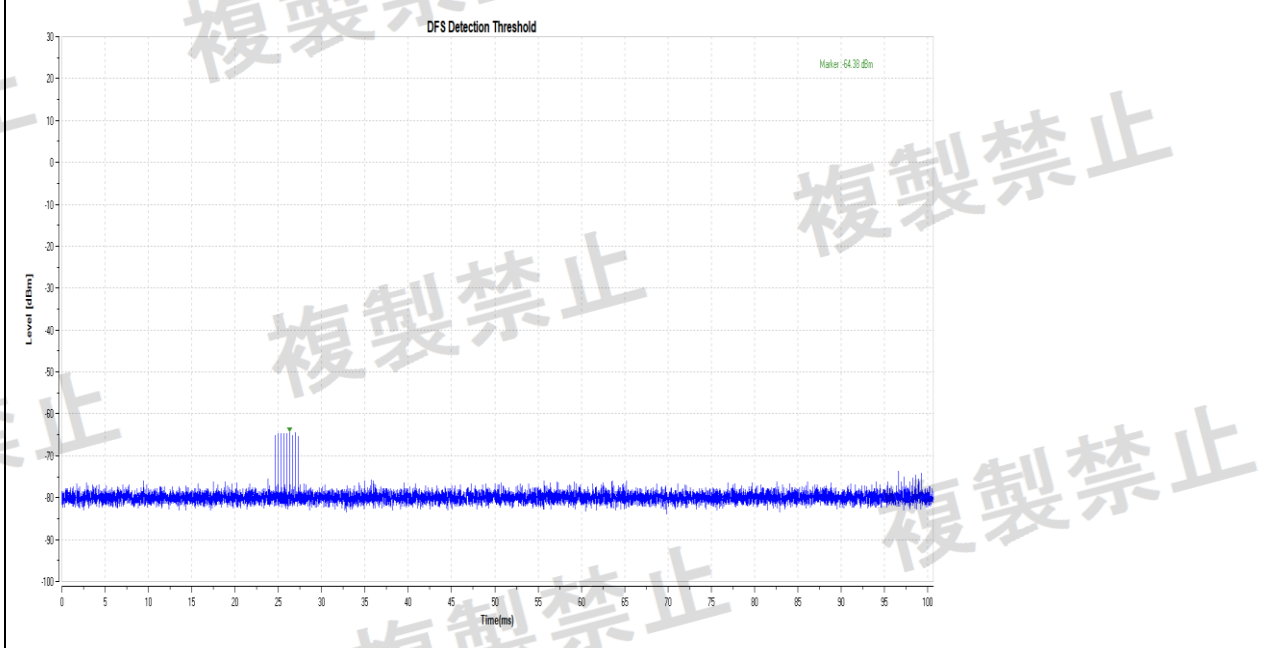
11BE160MIMO-5570-Type5-PASS



11BE160MIMO-5570-Type6-PASS



11BE160MIMO-5570-CR-PASS



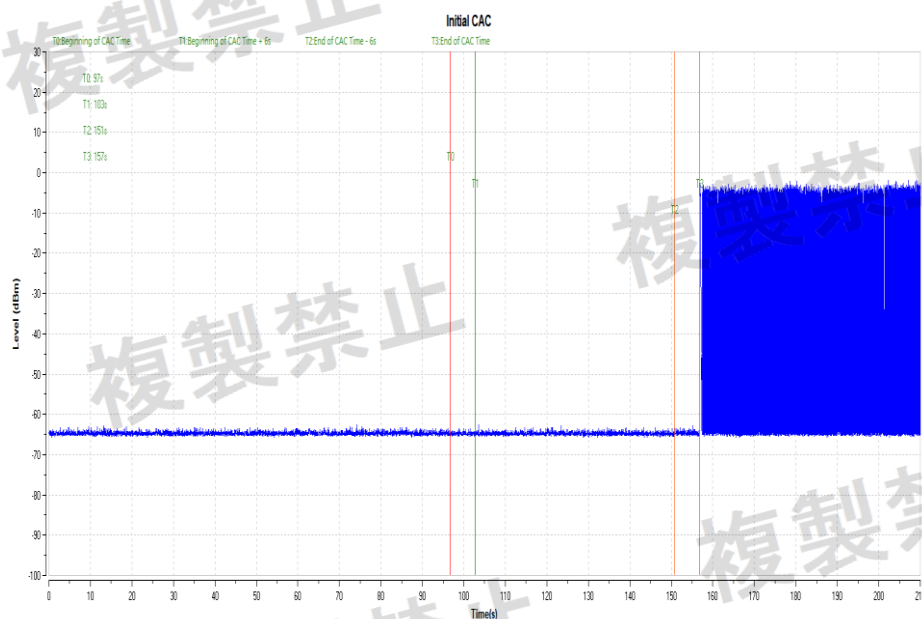
11BE160MIMO-5570-FH-PASS

CHANNEL AVAILABILITY CHECK TIME

If the UUT successfully detected the radar burst, it should be observed as the UUT has no transmissions occurred until the UUT starts transmitting on another channel.

IEEE 802.11BE20MIMO Mode

Initial Channel Availability Check Time

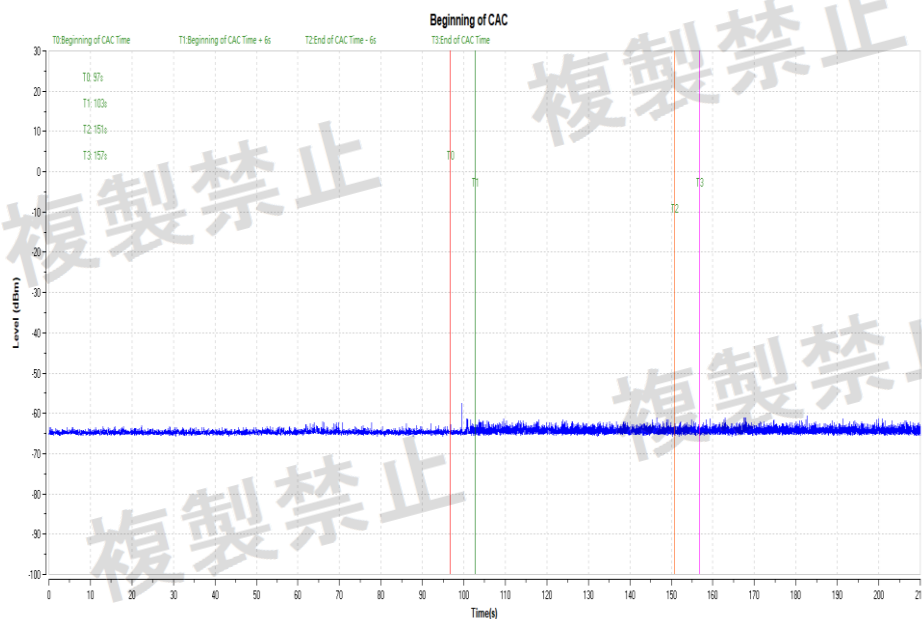


Note: T0 denotes the end of power-up time period is 0 second.

T3 denotes the end of Channel Availability Check time is 60 second. Channel Availability Check time is equal to (T3 - T0) 60 seconds.

IEEE 802.11BE20MIMO Mode

Radar Burst at the Beginning of the Channel Availability Check Time

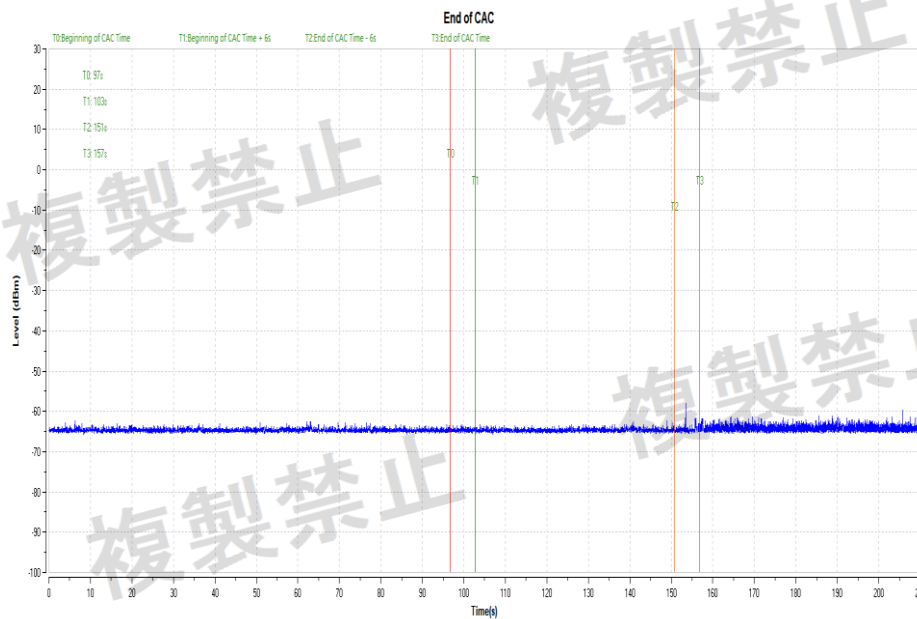


Note: T0 denotes the end of power up time period is 0 second.

T1 denotes 6 second. The radar burst was commenced within a 6 second window starting from the end of power-up sequence.

IEEE 802.11BE20MIMO Mode

Radar Burst at the End of the Channel Availability Check Time

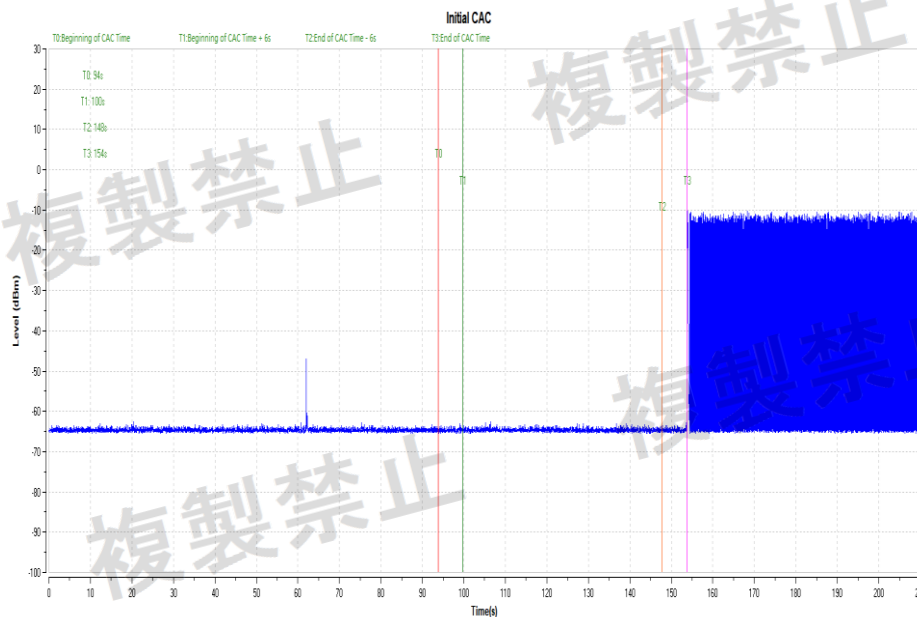


Note: T0 denotes the end of power up time period is 0 second.

T2 denotes 54 second and radar burst was commenced within 54 second to 60 second indow starting from the end of power-up sequence.

IEEE 802.11BE160MIMO Mode

Initial Channel Availability Check Time

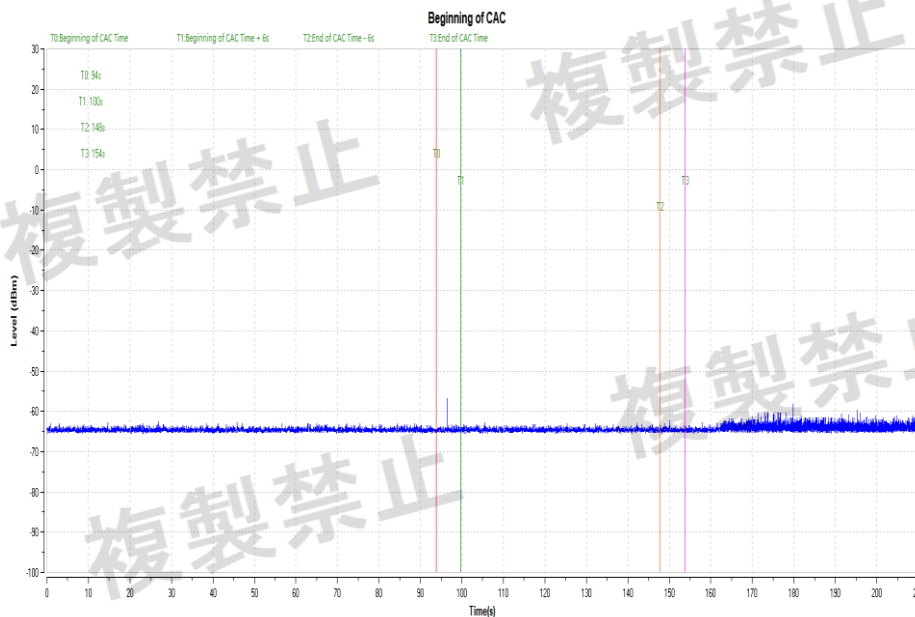


Note: T0 denotes the end of power-up time period is 0 second.

T3 denotes the end of Channel Availability Check time is 60 second. Channel Availability Check time is equal to (T3 - T0) 60 seconds.

IEEE 802.11BE160MIMO Mode

Radar Burst at the Beginning of the Channel Availability Check Time

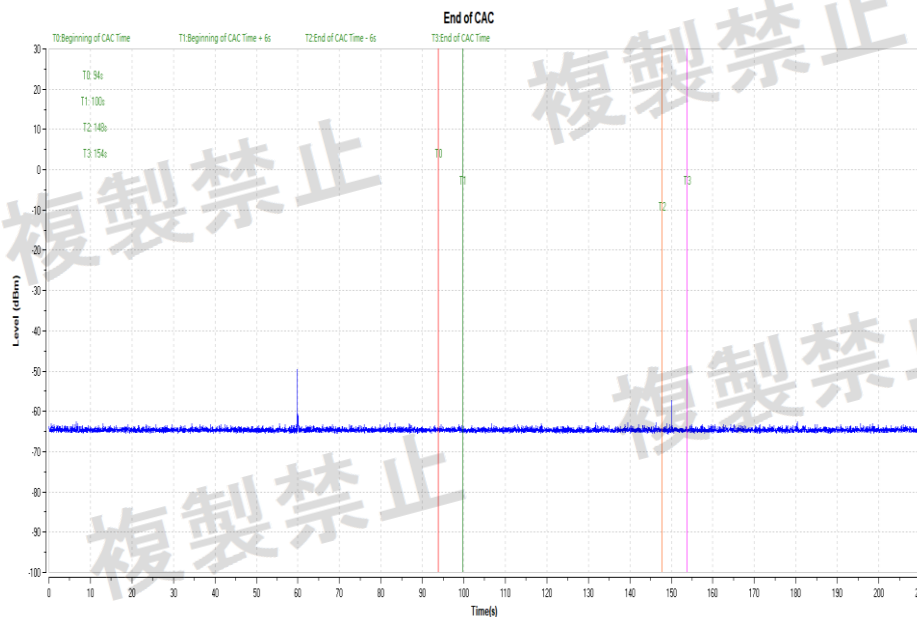


Note: T0 denotes the end of power up time period is 0 second.

T1 denotes 6 second. The radar burst was commenced within a 6 second window starting from the end of power-up sequence.

IEEE 802.11BE160MIMO Mode

Radar Burst at the End of the Channel Availability Check Time



Note: T0 denotes the end of power up time period is 0 second.

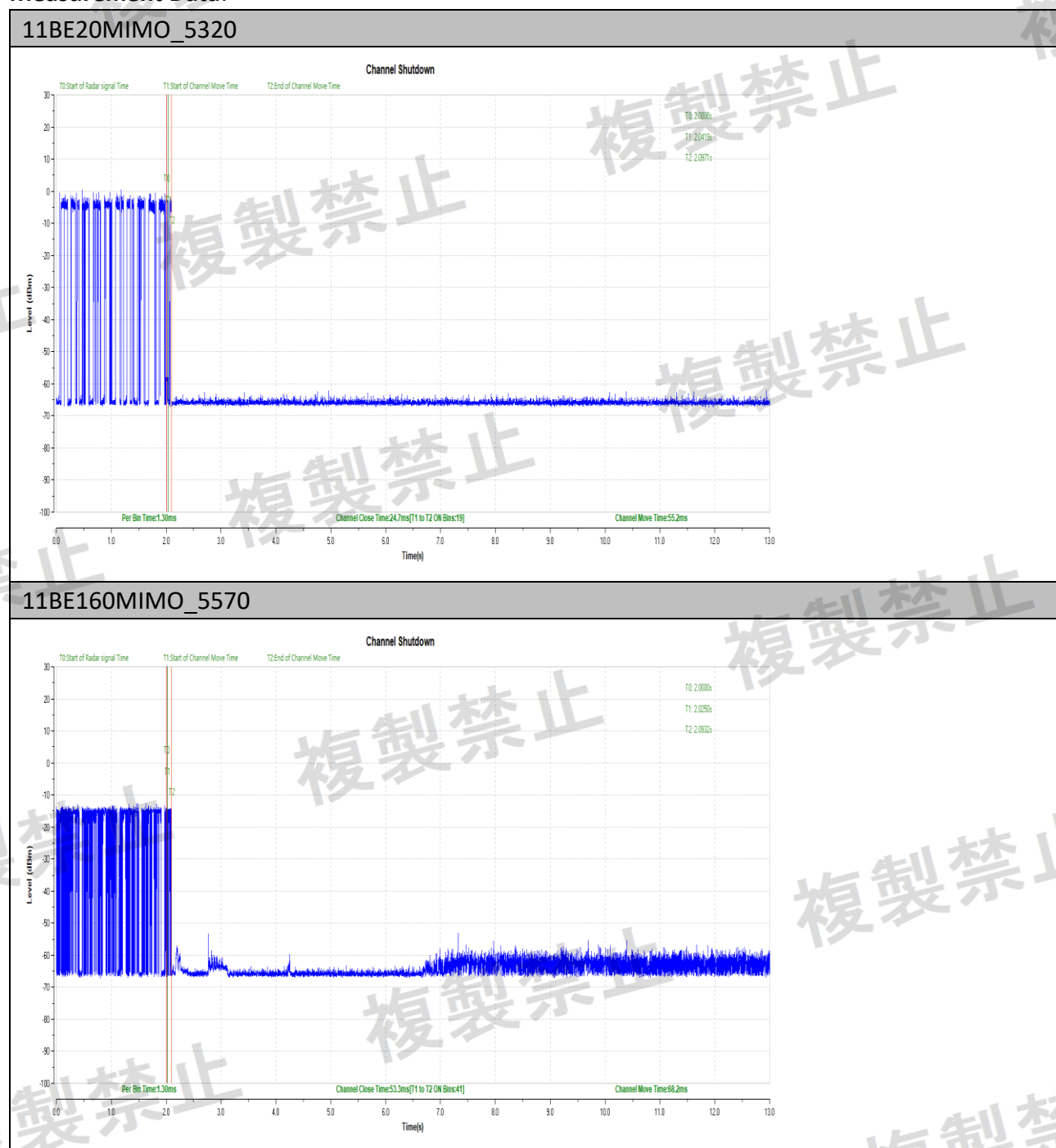
T2 denotes 54 second and radar burst was commenced within 54 second to 60 second indow starting from the end of power-up sequence.

CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

Test Result

Test Mode	Frequency[MHz]	Radar Type	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11BE20MIMO	5320	Type1	24.7	260	55.2	10000	PASS
11BE160MIMO	5570	Type1	53.3	260	68.2	10000	PASS

Measurement Data:



STATISTICAL PERFORMANCE CHECK

Test Mode	Frequency[MHz]	Radar Type	Nr of Times Triggered (# out of 30)	DetectionProbability (%)	DetectionProbabilityLimit (%)
11BE20MIMO	5320	1	30	100	60
		2	30	100	60
		3	30	100	60
		4	30	100	60
		5	26	86.67	60
		6	30	100	60
		7	27	90	60
		8	30	100	60
11BE160MIMO	5570	1	30	100	60
		2	30	100	60
		3	30	100	60
		4	30	100	60
		5	29	96.67	60
		6	30	100	60
		CR	28	93.33	80
		FH	30	100	70

Radar Type	Trial ID	Detection	Trial ID	Detection
		YES / NO		YES / NO
Type1	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
Type2	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES

Radar Type	Trial ID	Detection	Trial ID	Detection
		YES / NO		YES / NO
Type3	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
Type4	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES

Radar Type	Trial ID	Detection	Trial ID	Detection
		YES / NO		YES / NO
Type5	0	NO	15	YES
	1	YES	16	YES
	2	YES	17	NO
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	NO
	6	YES	21	YES
	7	NO	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	NO	27	YES
	13	YES	28	YES
	14	YES	29	YES
Type6	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES

Radar Type	Trial ID	Detection	Trial ID	Detection
		YES / NO		YES / NO
Type7	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	NO
	7	YES	22	YES
	8	YES	23	YES
	9	NO	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	NO
	13	YES	28	YES
	14	YES	29	YES
Type8	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES

Radar Type	Trial ID	Detection	Trial ID	Detection
		YES / NO		YES / NO
Type1	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
Type2	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES

Radar Type	Trial ID	Detection	Trial ID	Detection
		YES / NO		YES / NO
Type3	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
Type4	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES

Radar Type	Trial ID	Detection	Trial ID	Detection
		YES / NO		YES / NO
Type5	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	NO	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
Type6	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES

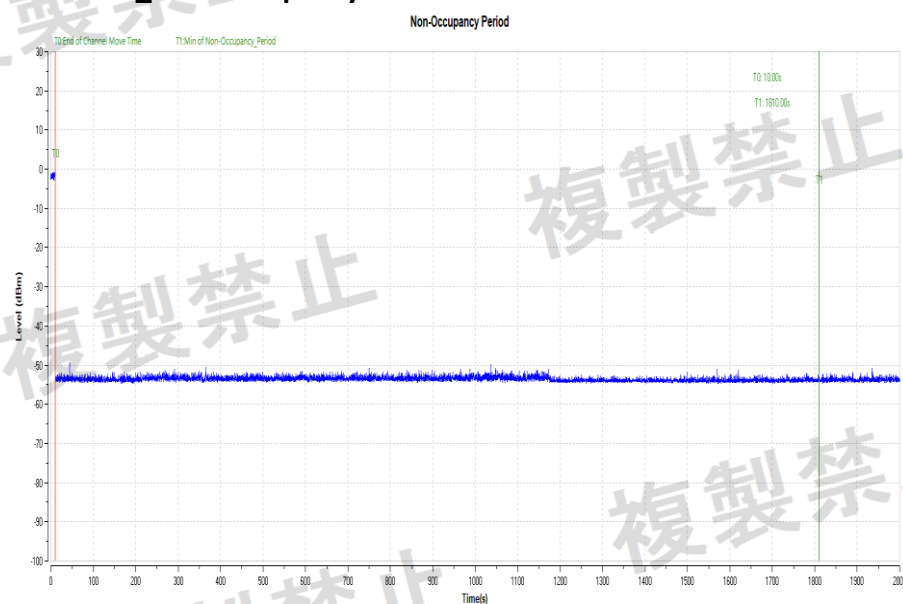
Radar Type	Trial ID	Detection	Trial ID	Detection
		YES / NO		YES / NO
CR	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	NO	22	YES
	8	YES	23	YES
	9	YES	24	NO
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES
FH	0	YES	15	YES
	1	YES	16	YES
	2	YES	17	YES
	3	YES	18	YES
	4	YES	19	YES
	5	YES	20	YES
	6	YES	21	YES
	7	YES	22	YES
	8	YES	23	YES
	9	YES	24	YES
	10	YES	25	YES
	11	YES	26	YES
	12	YES	27	YES
	13	YES	28	YES
	14	YES	29	YES

NON-OCCUPANCY PERIOD

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

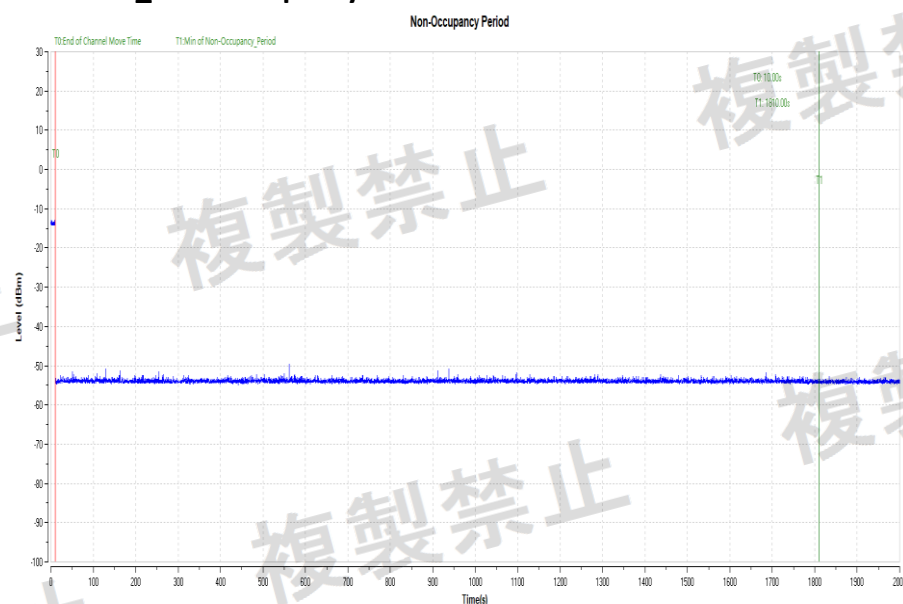
TX (IEEE 802.11BE20MIMO Mode)

5320MHz_Non-Occupancy Period



TX (IEEE 802.11BE160MIMO Mode)

5570MHz_Non-Occupancy Period



U-NII DETECTION BANDWIDTH

802.11BE20MIMO mode

Detection Bandwith test tranmission 20MHz											
EUT FREQUENCY	5320MHz										
EUT power bandwidth	19.1MHz										
Detection Bandwith limit(100%of EUT 99% Power bandwidth)	20MHz										
Detection Bandwith(5310(FL)-5330(FH))	20MHz										
Test Result	PASS										
Radar Freq (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5309	0	0	0	0	0	0	0	0	0	0	0
5310(FL)	1	1	1	1	1	1	1	1	1	1	100
5311	1	1	1	1	1	1	1	1	1	1	100
5312	1	1	1	1	1	1	1	1	1	1	100
5313	1	1	1	1	1	1	1	1	1	1	100
5314	1	1	1	1	1	1	1	1	1	1	100
5315	1	1	1	1	1	1	1	1	1	1	100
5316	1	1	1	1	1	1	1	1	1	1	100
5317	1	1	1	1	1	1	1	1	1	1	100
5318	1	1	1	1	1	1	1	1	1	1	100
5319	1	1	1	1	1	1	1	1	1	1	100
5320	1	1	1	1	1	1	1	1	1	1	100
5321	1	1	1	1	1	1	1	1	1	1	100
5322	1	1	1	1	1	1	1	1	1	1	100
5323	1	1	1	1	1	1	1	1	1	1	100
5324	1	1	1	1	1	1	1	1	1	1	100
5325	1	1	1	1	1	1	1	1	1	1	100
5326	1	1	1	1	1	1	1	1	1	1	100
5327	1	1	1	1	1	1	1	1	1	1	100
5328	1	1	1	1	1	1	1	1	1	1	100
5329	1	1	1	1	1	1	1	1	1	1	100
5330(FH)	1	1	1	1	1	1	1	1	1	1	100
5331	0	0	0	0	0	0	0	0	0	0	0

802.11BE160MIMO mode

Detection Bandwidth test transmission	160MHz										
EUT FREQUENCY	5570MHz										
EUT power bandwidth	156.9MHz										
Detection Bandwidth limit(100% of EUT 99% Power bandwidth)	160MHz										
Detection Bandwidth(5330(FH)-5170(FL))	160MHz										
Test Result	PASS										
	DFS Detection Trials (1=Detection, 0= No Detection)										
Radar Freq (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5169	0	0	0	0	0	0	0	0	0	0	0
5170(FL)	1	1	1	1	1	1	1	1	1	1	100
5171	1	1	1	1	1	1	1	1	1	1	100
5492	1	1	1	1	1	1	1	1	1	1	100
5493	1	1	1	1	1	1	1	1	1	1	100
5494	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5496	1	1	1	1	1	1	1	1	1	1	100
5497	1	1	1	1	1	1	1	1	1	1	100
5498	1	1	1	1	1	1	1	1	1	1	100
5499	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5501	1	1	1	1	1	1	1	1	1	1	100
5502	1	1	1	1	1	1	1	1	1	1	100
5503	1	1	1	1	1	1	1	1	1	1	100
5504	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5506	1	1	1	1	1	1	1	1	1	1	100
5507	1	1	1	1	1	1	1	1	1	1	100
5508	1	1	1	1	1	1	1	1	1	1	100
5509	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5511	1	1	1	1	1	1	1	1	1	1	100
5512	1	1	1	1	1	1	1	1	1	1	100
5513	1	1	1	1	1	1	1	1	1	1	100
5514	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5516	1	1	1	1	1	1	1	1	1	1	100
5517	1	1	1	1	1	1	1	1	1	1	100
5518	1	1	1	1	1	1	1	1	1	1	100
5519	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5521	1	1	1	1	1	1	1	1	1	1	100
5522	1	1	1	1	1	1	1	1	1	1	100
5523	1	1	1	1	1	1	1	1	1	1	100
5524	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5526	1	1	1	1	1	1	1	1	1	1	100
5527	1	1	1	1	1	1	1	1	1	1	100
5528	1	1	1	1	1	1	1	1	1	1	100
5529	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100
5531	1	1	1	1	1	1	1	1	1	1	100
5532	1	1	1	1	1	1	1	1	1	1	100
5533	1	1	1	1	1	1	1	1	1	1	100
5534	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5536	1	1	1	1	1	1	1	1	1	1	100
5537	1	1	1	1	1	1	1	1	1	1	100
5538	1	1	1	1	1	1	1	1	1	1	100
5539	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5541	1	1	1	1	1	1	1	1	1	1	100

5542	1	1	1	1	1	1	1	1	1	1	100
5543	1	1	1	1	1	1	1	1	1	1	100
5544	1	1	1	1	1	1	1	1	1	1	100
5545	1	1	1	1	1	1	1	1	1	1	100
5546	1	1	1	1	1	1	1	1	1	1	100
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5551	1	1	1	1	1	1	1	1	1	1	100
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5553	1	1	1	1	1	1	1	1	1	1	100
5554	1	1	1	1	1	1	1	1	1	1	100
5555	1	1	1	1	1	1	1	1	1	1	100
5556	1	1	1	1	1	1	1	1	1	1	100
5557	1	1	1	1	1	1	1	1	1	1	100
5558	1	1	1	1	1	1	1	1	1	1	100
5559	1	1	1	1	1	1	1	1	1	1	100
5560	1	1	1	1	1	1	1	1	1	1	100
5561	1	1	1	1	1	1	1	1	1	1	100
5562	1	1	1	1	1	1	1	1	1	1	100
5563	1	1	1	1	1	1	1	1	1	1	100
5564	1	1	1	1	1	1	1	1	1	1	100
5565	1	1	1	1	1	1	1	1	1	1	100
5566	1	1	1	1	1	1	1	1	1	1	100
5567	1	1	1	1	1	1	1	1	1	1	100
5568	1	1	1	1	1	1	1	1	1	1	100
5569	1	1	1	1	1	1	1	1	1	1	100
5570	1	1	1	1	1	1	1	1	1	1	100
5571	1	1	1	1	1	1	1	1	1	1	100
5572	1	1	1	1	1	1	1	1	1	1	100
5573	1	1	1	1	1	1	1	1	1	1	100
5574	1	1	1	1	1	1	1	1	1	1	100
5575	1	1	1	1	1	1	1	1	1	1	100
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5578	1	1	1	1	1	1	1	1	1	1	100
5579	1	1	1	1	1	1	1	1	1	1	100
5580	1	1	1	1	1	1	1	1	1	1	100
5581	1	1	1	1	1	1	1	1	1	1	100
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5583	1	1	1	1	1	1	1	1	1	1	100
5584	1	1	1	1	1	1	1	1	1	1	100
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5590	1	1	1	1	1	1	1	1	1	1	100
5591	1	1	1	1	1	1	1	1	1	1	100
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5601	1	1	1	1	1	1	1	1	1	1	100

5602	1	1	1	1	1	1	1	1	1	1	100
5603	1	1	1	1	1	1	1	1	1	1	100
5604	1	1	1	1	1	1	1	1	1	1	100
5605	1	1	1	1	1	1	1	1	1	1	100
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5607	1	1	1	1	1	1	1	1	1	1	100
5608	1	1	1	1	1	1	1	1	1	1	100
5609	1	1	1	1	1	1	1	1	1	1	100
5610	1	1	1	1	1	1	1	1	1	1	100
5611	1	1	1	1	1	1	1	1	1	1	100
5612	1	1	1	1	1	1	1	1	1	1	100
5613	1	1	1	1	1	1	1	1	1	1	100
5614	1	1	1	1	1	1	1	1	1	1	100
5615	1	1	1	1	1	1	1	1	1	1	100
5616	1	1	1	1	1	1	1	1	1	1	100
5617	1	1	1	1	1	1	1	1	1	1	100
5618	1	1	1	1	1	1	1	1	1	1	100
5619	1	1	1	1	1	1	1	1	1	1	100
5620	1	1	1	1	1	1	1	1	1	1	100
5621	1	1	1	1	1	1	1	1	1	1	100
5622	1	1	1	1	1	1	1	1	1	1	100
5623	1	1	1	1	1	1	1	1	1	1	100
5624	1	1	1	1	1	1	1	1	1	1	100
5625	1	1	1	1	1	1	1	1	1	1	100
5626	1	1	1	1	1	1	1	1	1	1	100
5627	1	1	1	1	1	1	1	1	1	1	100
5628	1	1	1	1	1	1	1	1	1	1	100
5629	1	1	1	1	1	1	1	1	1	1	100
5630	1	1	1	1	1	1	1	1	1	1	100
5631	1	1	1	1	1	1	1	1	1	1	100
5632	1	1	1	1	1	1	1	1	1	1	100
5633	1	1	1	1	1	1	1	1	1	1	100
5634	1	1	1	1	1	1	1	1	1	1	100
5635	1	1	1	1	1	1	1	1	1	1	100
5636	1	1	1	1	1	1	1	1	1	1	100
5637	1	1	1	1	1	1	1	1	1	1	100
5638	1	1	1	1	1	1	1	1	1	1	100
5639	1	1	1	1	1	1	1	1	1	1	100
5640	1	1	1	1	1	1	1	1	1	1	100
5641	1	1	1	1	1	1	1	1	1	1	100
5642	1	1	1	1	1	1	1	1	1	1	100
5643	1	1	1	1	1	1	1	1	1	1	100
5644	1	1	1	1	1	1	1	1	1	1	100
5645	1	1	1	1	1	1	1	1	1	1	100
5646	1	1	1	1	1	1	1	1	1	1	100
5647	1	1	1	1	1	1	1	1	1	1	100
5648	1	1	1	1	1	1	1	1	1	1	100
5649	1	1	1	1	1	1	1	1	1	1	100
5330(FH)	1	1	1	1	1	1	1	1	1	1	100
5331	0	0	0	0	0	0	0	0	0	0	0

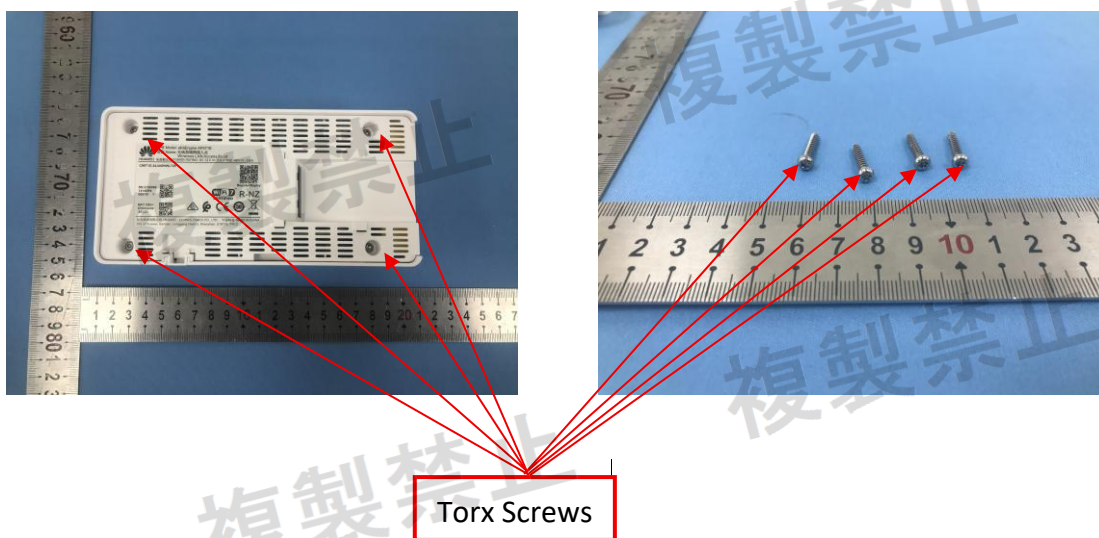
5.16 RF accessibility

Standard requirement

Article 49-20, paragraph 1 (a)

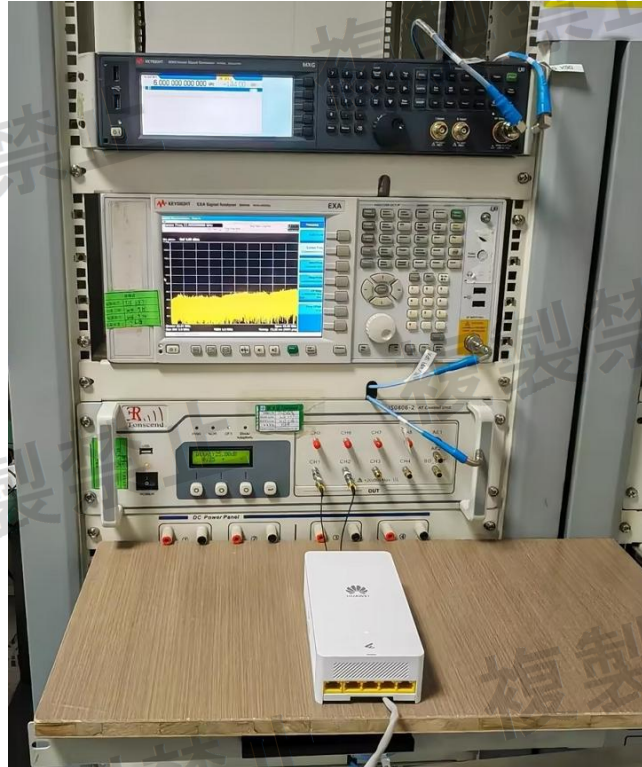
The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.

Note: the covers are fixed with torx screws, the user cannot open the device with common tools.



6. EUT Test Setup and Constructional Details

EUT Test Setup



(RF Conducted and DFS Test Setup)

EUT Constructional Details

Please refer to the document of EUT Photo.

***** End of Report*****