

New H3C Technologies Co.,Ltd.

JAPAN TEST REPORT

SCOPE OF WORK:
JAPAN RADIO REPORT

Model:
H3C WA7330i

REPORT NUMBER
250600203SHA-003

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Summary

The equipment complies with the requirements according to the following standard(s) or Specification:

The equipment complies with the requirements according to the following standard(s):
Article 49-20 and the relevant articles of the Ordinance Regulating Radio Equipment

The measurement was implemented in according with the following procedure(s):
MIC Notice No.88 Appendix No.45

Test method temporarily specified by the certification body: "Characteristics test method for 5GHz
band low-power data communication systems"

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Contents

REVISION HISTORY	5
MEASUREMENT RESULT SUMMARY	6
1 GENERAL INFORMATION	7
1.1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	7
1.2 RF TECHNICAL INFORMATION	7
1.3 DESCRIPTION OF TEST FACILITY	8
2 TEST SPECIFICATIONS	9
2.1 STANDARDS OR SPECIFICATION	9
2.2 MODE OF OPERATION DURING THE TEST	9
2.3 TEST ENVIRONMENT CONDITION:	10
2.4 POWER SUPPLY CONDITION:	10
2.5 TEST PERIPHERALS USED	11
2.6 INSTRUMENT LIST	11
2.7 MEASUREMENT UNCERTAINTY	12
3 FREQUENCY ERROR	13
3.1 LIMIT	13
3.2 MEASUREMENT PROCEDURE	13
3.3 TEST CONFIGURATION	13
3.4 TEST RESULTS OF FREQUENCY ERROR	13
4 OCCUPIED BANDWIDTH	14
4.1 LIMIT	14
4.2 MEASUREMENT PROCEDURE	14
4.3 TEST CONFIGURATION	14
4.4 TEST RESULTS OF OCCUPIED BANDWIDTH	14
5 ANTENNA POWER AND TOLERANCE	15
5.1 LIMIT	15
5.2 TEST CONFIGURATION	15
5.3 TEST RESULTS OF ANTENNA POWER AND TOLERANCE	15
6 EQUIVALENT ISOTROPICALLY RADIATED POWER (EIRP)	16
6.1 LIMIT	16
6.2 TEST CONFIGURATION	16
6.3 TEST RESULTS OF ANTENNA POWER AND TOLERANCE	16
7 ADJACENT CHANNEL LEAKAGE POWER	17
7.1 LIMIT	17
7.2 TEST CONFIGURATION	17
7.3 TEST RESULTS OF ADJACENT CHANNEL LEAKAGE POWER	17
8 UNWANTED EMISSION INTENSITY (E.I.R.P. VALUE)	18
8.1 LIMIT	18
8.2 TEST CONFIGURATION	21
8.3 MEASUREMENT PROCEDURE	22
8.4 TEST RESULTS OF SPURIOUS EMISSION	22
9 LIMIT OF SECONDARY RADIATED EMISSIONS	23
9.1 LIMIT	23
9.2 MEASUREMENT PROCEDURE	23

TEST REPORT

9.3	TEST CONFIGURATION	23
9.4	TEST RESULTS OF COLLATERAL RADIO EMISSION OF RECEIVER.....	23
10	TRANSMITTING BURST LENGTH.....	24
10.1	LIMIT	24
10.2	MEASUREMENT PROCEDURE	24
10.3	TEST CONFIGURATION	24
10.4	TEST RESULTS OF COLLATERAL RADIO EMISSION OF RECEIVER.....	24
11	CARRIER SENSE FUNCTION	25
11.1	MEASUREMENT PROCEDURE	25
11.2	TEST CONFIGURATION	25
11.3	TEST RESULTS OF CARRIER SENSE FUNCTION	26
12	INTERFERENCE PREVENTION FUNCTION.....	29
12.1	LIMIT	29
12.2	MEASUREMENT PROCEDURE	29
12.3	TEST CONFIGURATION	29
12.4	TEST RESULTS OF INTERFERENCE PREVENTION FUNCTION.....	30
13	CONSTRUCTION PROTECTION CONFIRMATION METHOD	31
13.1	LIMIT	31
13.2	CONFIRMATION METHOD	31
13.3	THE PHOTOS OF CONSTRUCTION PROTECTION.....	31
APPENDIX: TEST RESULTS.....		32

Revision History

Report No.	Version	Description	Issued Date
250600203SHA-003	Rev. 01	Initial issue of report	December 6, 2025

Measurement result summary

TEST ITEM	TEST RESULT	NOTE
Frequency Error	Pass	-
Occupied Bandwidth	Pass	-
Antenna Power and Tolerance	Pass	-
Equivalent Isotropically Radiated Power (EIRP)	Pass	-
Adjacent Channel Leakage Power	Pass	-
Unwanted Emission Intensity (e.i.r.p. value)	Pass	-
Limit of Secondary Radiated Emissions	Pass	-
Transmitting Burst Length	Pass	-
Carrier Sensing Function	Pass	-
Interference Prevention Function	Pass	-
Construction Protection Confirmation	Pass	-

Notes: 1: NA =Not Applicable

2. Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name	: Wireless Access Point
Type/Model	: H3C WA7330i
Description of EUT	: The EUT is a Wireless Access Point which supports WIFI function, and it has only one model.
Rating	: DC 54V, 0.78A
Hardware version	: Ver.A
Software version	: Comware V7
Sample received date	: June 8, 2025
Date of test	: June 10, 2025 ~ December 6, 2025

1.2 RF Technical Information

Assigned Frequency Band	: 5150 - 5250MHz 5250 - 5350MHz 5470 - 5725MHz
EUT Modes of Modulation	: 802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ax(HT20), 802.11ac(VHT40), 802.11ax(HT40), 802.11ac(VHT80), 802.11ax(HT80), 802.11ax(HT160), 802.11be(EHT20), 802.11be(EHT40), 802.11be(EHT80), 802.11be(EHT160)
Type of Modulation	: 802.11a, 802.11n, 802.11ac, 802.11ax, 802.11be: OFDM&OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
Channel Number	: For 5150 - 5250MHz band: Channel 36 - 48 For 5250 - 5350MHz Band: Channel 52 - 64 For 5470 - 5725MHz Band: Channel 100 - 144
Antenna Type	: Metal&PCB antenna
Antenna Gain	: 4.1dBi
Declaration Antenna Power	: 5150-5350MHz: 802.11a: W52/W53 3.8mW/MHz 802.11n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20): W52/W53 3.8mW/MHz 802.11n(HT40)/ac(VHT40)/ax(HE40)/ be(EHT20): W52/W53 1.9mW/MHz 802.11ac(VHT80)/ax(HE80)/be(EHT80): W52/W53 0.9mW/MHz 802.11ac(VHT160)/ax(HE160)/be(EHT160): 0.4mW/MHz 5470 - 5725MHz 802.11a: 10mW/MHz 802.11n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20): 10mW/MHz 802.11n(HT40)/ac(VHT40)/ax(HE40)/ be(EHT20): 5mW/MHz 802.11ac(VHT80) 2.5mW/MHz 802.11ax(HE80)/be(EHT80): 2.5mW/MHz 802.11ac(VHT160)/ax(HE160)/be(EHT160): 1.25mW/MHz

1.3 Description of Test Facility

Name : Intertek Testing Services (Shanghai FTZ) Co., Ltd.

Address : Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China

Telephone : 86 21 61278200

Telefax : 86 21 54262353

The test facility is : CNAS Accreditation Lab
recognized, certified, Registration No. CNAS L21189
or accredited by these FCC Accredited Lab
organizations Designation Number: CN0175

IC Registration Lab
CAB identifier.: CN0014

VCCI Registration Lab
Member No.: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)

A2LA Accreditation Lab
Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

The equipment complies with the requirements according to the following standard(s):

Article 49-20 and the relevant articles of the Ordinance Regulating Radio Equipment

The measurement was implemented in according with the following procedure(s):

MIC Notice No.88 Appendix No.45

Test method temporarily specified by the certification body: "Characteristics test method for 5GHz band low-power data communication systems"

2.2 Mode of operation during the test

While testing transmitting mode of EUT, the continuously transmission was applied by following software.

Software name	Manufacturer	Version	Supplied by
accessMTool	--	3.3.0.6	Client

The lowest, middle and highest channel were tested as representatives.

Frequency Band (MHz)	Mode	Lowest (MHz)	Middle (MHz)	Highest (MHz)
5150-5250	802.11a	5180	5220	5240
	802.11n(HT20)/ac(VHT20)/ax(HT20)/be(EHT20)	5180	5220	5240
	802.11n(HT40)/ac(VHT40)/ ax(HT40)/be(EHT40)	5190	-	5230
	802.11ac(VHT80)/ax(HT80)/be(EHT80)	-	5210	-
	802.11ax(HT160)/be(EHT160)	-	5250	-
5250-5350	802.11a	5260	5280/5300	5320
	802.11n(HT20)/ac(VHT20)/ax(HT20)/be(EHT20)	5260	5280/5300	5320
	802.11n(HT40)/ac(VHT40)/ ax(HT40)/be(EHT40)	5270	-	5310
	802.11ac(VHT80)/ax(HT80)/be(EHT80)	-	5290	-
5470-5725	802.11a	5500	5600	5720
	802.11n(HT20)/ac(VHT20)/ax(HT20)/be(EHT20)	5500	5600	5720
	802.11n(HT40)/ac(VHT40)/ ax(HT40)/be(EHT40)	5510	5590	5710
	802.11ac(VHT80)/ax(HT80)/be(EHT80)	5530	5610	5690
	802.11ax(HT160)/be(EHT160)	-	5570	-

MIMO Function Description:

Frequency Band (MHz)	Mode	Tx Function	Beamforming function	TPC function	Note
5150-5250	802.11a	1TX/1RX	NO	YES	-
5250-5350	802.11n(HT20)/ac(VHT20)/ax(HT20)/be(EHT20)	2TX/2RX	NO	YES	-
5470-5725					

TEST REPORT

802.11n(HT40)/ac(VHT40)/ ax(HT40)/be(EHT40)	2TX/2RX	NO	YES	-
802.11ac(VHT80)/ax(HT80)/ be(EHT80)	2TX/2RX	NO	YES	-
802.11ax(HT160)/be(EHT160)	2TX/2RX	NO	YES	-

After this pretest, the following data rate was chosen to do the test as the worst case:

Frequency Band (MHz)	Mode	Worst case data rate
5150~5250	802.11a	6Mbps
	802.11n	MCS0
	802.11ac	MCS0
	802.11ax	MCS0
	802.11be	MCS0
5250~5350	802.11a	6Mbps
	802.11n	MCS0
	802.11ac	MCS0
	802.11ax	MCS0
	802.11be	MCS0
5470~5725	802.11a	6Mbps
	802.11n	MCS0
	802.11ac	MCS0
	802.11ax	MCS0
	802.11be	MCS0

2.3 Test environment condition:

Temperature	Humidity	Atmospheric Pressure
22°C	47 %RH	100.6 kPa

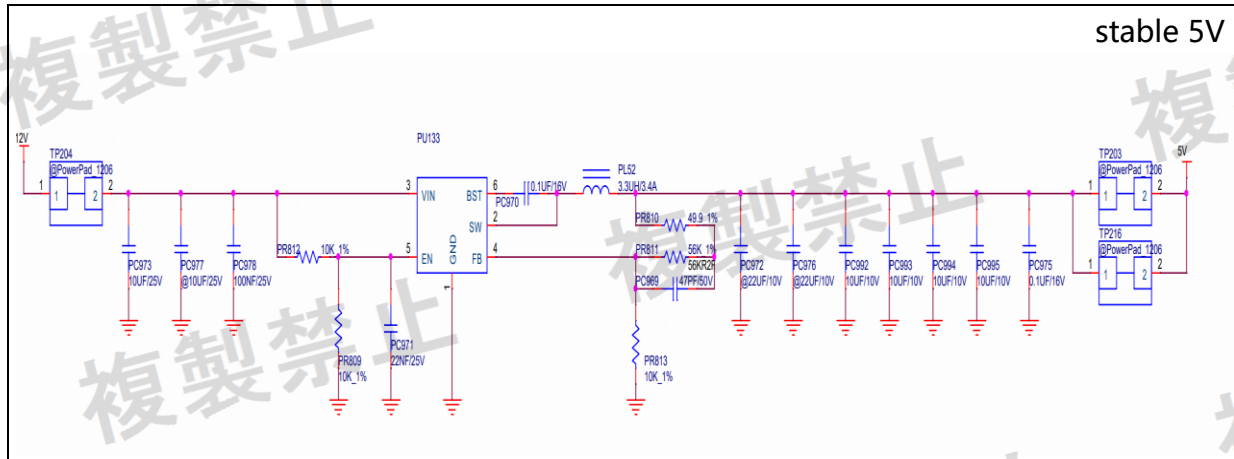
2.4 Power supply condition:

The EUT is supplied with 54 DC. The fluctuation of input voltage to the circuit of RF unit of test equipment is under $\pm 1\%$, when input voltage from 54V DC to the test equipment is fluctuated by $\pm 10\%$, So all measurement was conducted on the rated voltage (54V DC).

The measurement result of the voltage fluctuation at RF circuit when input voltage is fluctuated by $\pm 10\%$:

Power supply	Measured value
48.6V DC	5V
54V DC	5V
59.4V DC	5V

TEST REPORT



2.5 Test peripherals used

Item No	Description	Band and Model	S/No
1	Laptop computer	DELL, 5480	NA

2.6 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Calibration date	Due date	Calibration Body	
☒	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2025-05-26	2026-05-25	CEPREI	(c)
☐	Power sensor	Agilent	U2021XA	EC 5338-1	2025-06-04	2026-06-03	CEPREI	(c)
☒	MXG Analog Signal Generator	Agilent	N5181A	EC 5338-2	2025-03-12	2026-03-11	CEPREI	(c)
☐	Vector Signal Generator	Agilent	N5182B	EC 5175	2025-03-12	2026-03-11	CEPREI	(c)
☒	Multi-meter	FLUKE	187	EC 2560	2025-03-07	2026-03-06	ITS	(c)

Note: The calibration interval is one year and the calibrations are traceable to the National Institute of Metrology (NIM)

Remark:

- (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.
- (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).
- (c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- (d) 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

2.7 Measurement Uncertainty

Item No.	Test Items	Expanded Uncertainty (k=2) (±)
1	Frequency error	0.84×10^{-7}
2	Antenna Power	0.74 dB
3	Occupied Bandwidth	0.88 %
4	Spurious emissions of transmitter	2.89 dB
5	Spurious emissions of receiver	2.80 dB
6	Temperature	1 °C
7	Humidity	5 %
8	Time	1.15 %

3 Frequency Error

Test result: Pass

3.1 Limit

Item	Limits
Frequency Error	$\leq 20\text{ppm}$

3.2 Measurement Procedure

- (1) Frequency accuracy of instrument shall be less than 10% of the limit.
- (2) Two methods for the item:
 - a. CW Tone method
 - i. Set the spectrum analyzer RBW=10kHz, VBW=10kHz, Span=1MHz.
 - ii. Use peak search function to find the max peak value and record the measuring frequency as f.
 - b. 10dB down method
 - i. Set the spectrum analyzer RBW=100kHz, VBW=100kHz, Trace: Max Hold.
 - ii. Display line Level = Max. level - 10dB to place two markers, highest(fH) and lowest(fL) frequency
 - iii. Determine measuring frequency $f = (fH + fL) / 2$
- (3) Calculate frequency tolerance by the formula $(f - f_c) / f_c \times 10^6$

3.3 Test Configuration



3.4 Test Results of Frequency Error

Please refer to Appendix

4 Occupied Bandwidth

Test result: Pass

4.1 Limit

Frequency Band (MHz)	Modulation	Limits (MHz)
5150-5350	20MHz system, OFDM/OFDMA	≤ 20
	40MHz system, OFDM/OFDMA	≤ 40
	80MHz system, OFDM/OFDMA	≤ 80
	160MHz system, OFDM/OFDMA	≤ 160
5470-5730	20MHz system, OFDM/OFDMA	≤ 20
	40MHz system, OFDM/OFDMA	≤ 40
	80MHz system, OFDM/OFDMA	≤ 80
	160MHz system, OFDM/OFDMA	≤ 160

4.2 Measurement Procedure

- (1) Set the Spectrum Analyzer as: RBW: 300kHz, VBW: 300kHz, Sweep mode: Continuous sweep, Detect mode: Positive peak, Trace mode: Max hold.
- (2) Set the EUT as transmitting on fix channel with modulation (For DSSS or OFDM Device), or continuous maximum power of hopping mode (For FHSS Device)
- (3) Enable OBW function of Spectrum Analyzer to measure 99% bandwidth.

4.3 Test Configuration



4.4 Test Results of Occupied Bandwidth

Please refer to Appendix

5 Antenna Power and Tolerance

Test result: Pass

5.1 Limit

Frequency Band (MHz)	OBW (MHz)	Limits
5150-5350	≤ 20	≤ 10mW/MHz
	20 ~ 40	≤ 5mW/MHz
	40 ~ 80	≤ 2.5mW/MHz
	80 ~ 160	≤ 1.25mW/MHz
	Tolerance of antenna power	+20% to -80%
5470-5730	≤ 20	≤ 10mW/MHz
	20 ~ 40	≤ 5mW/MHz
	40 ~ 80	≤ 2.5mW/MHz
	80 ~ 160	≤ 1.25mW/MHz
	Tolerance of antenna power	+50% to -50%

5.2 Test Configuration



5.3 Test Results of Antenna Power and Tolerance

Please refer to Appendix

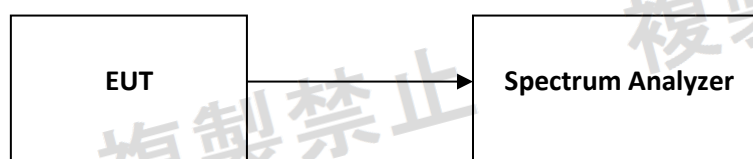
6 Equivalent Isotropically Radiated Power (EIRP)

Test result: Pass

6.1 Limit

Frequency Band (MHz)	OBW (MHz)	Limits (with TPC)	Limits (without TPC)
5150-5250	≤ 20	10mW/MHz	10mW/MHz
	20 ~ 40	5mW/MHz	5mW/MHz
	40 ~ 80	2.5mW/MHz	2.5mW/MHz
	80 ~ 160	1.25mW/MHz	1.25mW/MHz
5250-5350	≤ 20	10mW/MHz	5mW/MHz
	20 ~ 40	5mW/MHz	2.5mW/MHz
	40 ~ 80	2.5mW/MHz	1.25mW/MHz
	80 ~ 160	1.25mW/MHz	0.625mW/MHz
5470-5730	≤ 20	50mW/MHz	25mW/MHz
	20 ~ 40	25mW/MHz	12.5mW/MHz
	40 ~ 80	12.5mW/MHz	6.25mW/MHz
	80 ~ 160	6.25mW/MHz	3.125mW/MHz

6.2 Test Configuration



6.3 Test Results of Antenna Power and Tolerance

Please refer to Appendix

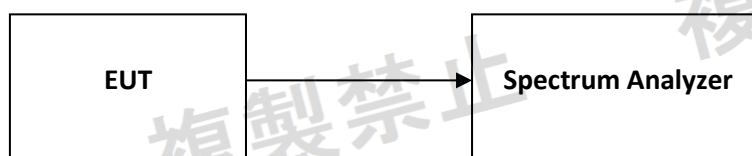
7 Adjacent Channel Leakage Power

Test result: Pass

7.1 Limit

Frequency Band (MHz)	OBW (MHz)	Limits
5150-5350	≤ 18	20MHz detuning: ≤ -25dBc/18MHz 40MHz detuning: ≤ -40dBc/18MHz
	18 ~ 20	20MHz detuning: ≤ -25dBc/20MHz 40MHz detuning: ≤ -40dBc/20MHz
	20 ~ 40	40MHz detuning: ≤ -25dBc/40MHz 80MHz detuning: ≤ -40dBc/40MHz
	40 ~ 80	80MHz detuning: ≤ -25dBc/80MHz
	80 ~ 160	NA
5470-5730	≤ 20	20MHz detuning: ≤ -25dBc/20MHz 40MHz detuning: ≤ -40dBc/20MHz
	20 ~ 40	40MHz detuning: ≤ -25dBc/40MHz 80MHz detuning: ≤ -40dBc/40MHz
	40 ~ 80	80MHz detuning: ≤ -25dBc/80MHz
	80 ~ 160	NA

7.2 Test Configuration



7.3 Test Results of Adjacent Channel Leakage Power

Please refer to Appendix

8 Unwanted Emission Intensity (e.i.r.p. value)

Test result: Pass

8.1 Limit

5150-5350MHz

Tolerance of Unwanted Emission Intensity (e.i.r.p. value) (1) OBW: $\leq 18\text{MHz}$	<u>5240MHz</u>	
	a. $\leq 5142\text{MHz}$	$\leq 2.5\mu\text{W/MHz}$
	b. $5142 \sim 5150\text{MHz}$	$\leq 15\mu\text{W/MHz}$
	c. $5250 \sim 5251\text{MHz}$ (Df: 10-11MHz)	$\leq 10^{1-(\text{Df}-9)}\text{mW/MHz}$
	d. $5251 \sim 5260\text{MHz}$ (Df: 11-20MHz)	$\leq 10^{-1-(8/90)(\text{Df}-11)}\text{mW/MHz}$
	e. $5260 \sim 5266.7\text{MHz}$ (Df: 20-26.7MHz)	$\leq 10^{-1.8-(6/50)(\text{Df}-20)}\text{mW/MHz}$
	f. $\geq 5266.7\text{MHz}$	$\leq 2.5\mu\text{W/MHz}$
	<u>5260MHz</u>	
	a. $\leq 5233.3\text{MHz}$	$\leq 2.5\mu\text{W/MHz}$
	b. $5233.3 \sim 5240\text{MHz}$ (Df: 26.7-20MHz)	$\leq 10^{-1.8-(6/50)(\text{Df}-20)}\text{mW/MHz}$
	c. $5240 \sim 5249\text{MHz}$ (Df: 20-11MHz)	$\leq 10^{-1-(8/90)(\text{Df}-11)}\text{mW/MHz}$
	d. $5249 \sim 5250\text{MHz}$ (Df: 11-10MHz)	$\leq 10^{1-(\text{Df}-9)}\text{mW/MHz}$
	e. $\geq 5350\text{MHz}$	$\leq 2.5\mu\text{W/MHz}$

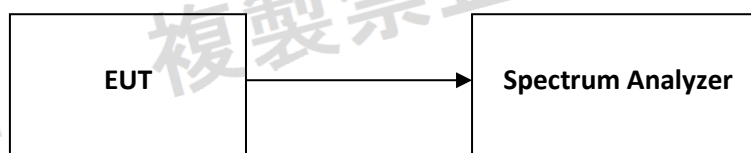
Tolerance of Unwanted Emission Intensity (e.i.r.p. value)	<u>5180MHz</u> a. $\leq 5142\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$ b. $5142 \sim 5150\text{MHz}$ $\leq 15\mu\text{W/MHz}$
(2) OBW: 18~20MHz	<u>5240MHz</u> a. $5250 \sim 5250.2\text{MHz}(\text{Df}:10\text{-}10.2\text{MHz})$ $\leq 10^{1-(8/3)(\text{Df}-9.75)}\text{mW/MHz}$ b. $5250.2 \sim 5251\text{MHz}(\text{Df}:10\text{-}11\text{MHz})$ $\leq 10^{1-(\text{Df}-9)}\text{mW/MHz}$ c. $5251 \sim 5260\text{MHz}(\text{Df}:11\text{-}20\text{MHz})$ $\leq 10^{-1-(8/90)(\text{Df}-11)}\text{mW/MHz}$ d. $5260 \sim 5266.7\text{MHz}(\text{Df}:20\text{-}26.7\text{MHz})$ $\leq 10^{-1.8-(6/50)(\text{Df}-20)}\text{mW/MHz}$ e. $\geq 5266.7\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$
	<u>5260MHz</u> a. $\leq 5233.3\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$ b. $5233.3 \sim 5240\text{MHz}(\text{Df}:26.7\text{-}20\text{MHz})$ $\leq 10^{-1.8-(6/50)(\text{Df}-20)}\text{mW/MHz}$ c. $5240 \sim 5249\text{MHz}(\text{Df}:20\text{-}11\text{MHz})$ $\leq 10^{-1-(8/90)(\text{Df}-11)}\text{mW/MHz}$ d. $5249 \sim 5249.8\text{MHz}(\text{Df}:11\text{-}10.2\text{MHz})$ $\leq 10^{1-(\text{Df}-9)}\text{mW/MHz}$ e. $5249.8 \sim 5250\text{MHz}(\text{Df}:10.2\text{-}10\text{MHz})$ $\leq 10^{1-(8/3)(\text{Df}-9.75)}\text{mW/MHz}$ f. $\geq 5350\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$
Tolerance of Unwanted Emission Intensity (e.i.r.p. value)	<u>5190MHz</u> a. $\leq 5141.6\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$ b. $5141.6 \sim 5150\text{MHz}$ $\leq 15\mu\text{W/MHz}$
(3) OBW: 20~40MHz	<u>5230MHz</u> a. $5250 \sim 5251\text{MHz}(\text{Df}:20\text{-}21\text{MHz})$ $\leq 10^{-(\text{Df}-20)+\log(1/2)}\text{mW/MHz}$ b. $5251 \sim 5270\text{MHz}(\text{Df}:21\text{-}40\text{MHz})$ $\leq 10^{-(8/190)(\text{f}-21)-1+\log(1/2)}\text{mW/MHz}$ c. $5270 \sim 5278.4\text{MHz}(\text{Df}:40\text{-}48.4\text{MHz})$ $\leq 10^{-(3/50)(\text{Df}-40)-1.8+\log(1/2)}\text{mW/MHz}$ d. $\geq 5278.4\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$
	<u>5270MHz</u> a. $\leq 5221.6\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$ b. $5221.6 \sim 5230\text{MHz}(\text{Df}:48.4\text{-}40\text{MHz})$ $\leq 10^{-(3/50)(\text{Df}-40)-1.8+\log(1/2)}\text{mW/MHz}$ c. $5230 \sim 5249\text{MHz}(\text{Df}:40\text{-}21\text{MHz})$ $\leq 10^{-(8/190)(\text{f}-21)-1+\log(1/2)}\text{mW/MHz}$ d. $5249 \sim 5250\text{MHz}(\text{Df}:21\text{-}20\text{MHz})$ $\leq 10^{-(\text{Df}-20)+\log(1/2)}\text{mW/MHz}$
	<u>5310MHz</u> a. $5350 \sim 5358.4\text{MHz}$ $\leq 15\mu\text{W/MHz}$ b. $\geq 5358.4\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$
	$\leq 2.5\mu\text{W/MHz}$

Tolerance of Unwanted Emission Intensity (e.i.r.p. value)	(4) OBW: 40~80MHz	<u>5210MHz</u> a. $\leq 5123.2\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$ b. $5123.2 \sim 5150\text{MHz}$ $\leq 15\mu\text{W/MHz}$ c. $5250 \sim 5251\text{MHz}$ (Df: 40~41MHz) $\leq 10^{-(Df-40)+\log(1/4)}\text{mW/MHz}$ d. $5251 \sim 5290\text{MHz}$ (Df: 41~80MHz) $\leq 10^{-(8/390)(Df-41)-1+\log(1/4)}\text{mW/MHz}$ e. $5290 \sim 5296.7\text{MHz}$ (Df: 80~86.7MHz) $\leq 10^{-(3/100)(Df-80)-1.8+\log(1/4)}\text{mW/MHz}$ f. $\geq 5296.7\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$
		<u>5290MHz</u> a. $\leq 5203.3\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$ b. $5203.3 \sim 5210\text{MHz}$ (Df: 86.7~80MHz) $\leq 10^{-(3/100)(Df-80)-1.8+\log(1/4)}\text{mW/MHz}$ c. $5210 \sim 5249\text{MHz}$ (Df: 80~41MHz) $\leq 10^{-(8/390)(f-41)-1+\log(1/4)}\text{mW/MHz}$ d. $5249 \sim 5250\text{MHz}$ (Df: 41~40MHz) $\leq 10^{-(Df-40)+\log(1/4)}\text{mW/MHz}$ e. $5350 \sim 5376.8\text{MHz}$ $\leq 15\mu\text{W/MHz}$ f. $\geq 5376.8\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$
Tolerance of Unwanted Emission Intensity (e.i.r.p. value)	(5) OBW: 80~160MHz	a. $\leq 5099.6\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$ b. $5099.6 \sim 5150\text{MHz}$ $\leq 15\mu\text{W/MHz}$ c. $5350 \sim 5400.4\text{MHz}$ $\leq 15\mu\text{W/MHz}$ d. $\geq 5400.4\text{MHz}$ $\leq 2.5\mu\text{W/MHz}$

5470-5730MHz:

Tolerance of Unwanted Emission Intensity (e.i.r.p. value) (1) OBW: ≤20MHz	<u>OFDM</u>	a. < 5460MHz	≤ 2.5μW/MHz
		b. 5460 ~ 5470MHz	≤ 12.5μW/MHz
		c. 5745 ~ 5765MHz	≤ 12.5μW/MHz
		d. > 5765MHz	≤ 2.5μW/MHz
	<u>Others</u>	a. ≤ 5470MHz	≤ 12.5μW/MHz
Tolerance of Unwanted Emission Intensity (e.i.r.p. value) (2) OBW: 20~40MHz		b. ≥ 5730MHz	≤ 12.5μW/MHz
		a. ≤ 5460MHz	≤ 12.5μW/MHz
		b. 5460 ~ 5470MHz	≤ 50μW/MHz
Tolerance of Unwanted Emission Intensity (e.i.r.p. value) (3) OBW: 40~80MHz		c. ≥ 5770MHz	≤ 12.5μW/MHz
		a. ≤ 5460MHz	≤ 12.5μW/MHz
		b. 5460 ~ 5469.5MHz	≤ 50μW/MHz
		c. 5469.5 ~ 5470MHz	≤ 51.2μW /MHz
Tolerance of Unwanted Emission Intensity (e.i.r.p. value) (4) OBW: 80~160MHz		d. ≥ 5770MHz	≤ 12.5μW/MHz
		a. ≤ 5419.6MHz	≤ 12.5μW/MHz
		b. 5419.6 ~ 5470MHz	≤ 50μW/MHz
		c. ≥ 5725MHz	≤ 12.5μW/MHz

8.2 Test Configuration



8.3 Measurement Procedure

- (1) Set the EUT as transmitting the maximum power and fixed channel.
- (2) Set the Spectrum Analyzer as: RBW: 1MHz, VBW: 1MHz, Sweep time: Auto, Detect mode: Positive peak.
- (3) Follow above setting to measure spurious emission from 30MHz to 26000MHz.

8.4 Test Results of Spurious Emission

Please refer to Appendix

9 Limit of Secondary Radiated Emissions

Test result: Pass

9.1 Limit

Item	Limits
Secondary Radiated Emissions	(1) Below 1GHz: 4nW (2) 1GHz or higher: 20nW

9.2 Measurement Procedure

- (1) Set the EUT as continuous reception mode and fixed channel.
- (2) Set the Spectrum Analyzer as: RBW: 100kHz, VBW: 100kHz, Sweep time: Auto, Detect mode: Positive peak to measure the spurious emission below 1GHz.
- (3) Set the Spectrum Analyzer as: RBW: 1MHz, VBW: 1MHz, Sweep time: Auto, Detect mode: Positive peak to measure the spurious emission above 1GHz.

9.3 Test Configuration



9.4 Test Results of Collateral Radio Emission of Receiver

Please refer to Appendix

10 Transmitting Burst Length

Test result: Pass

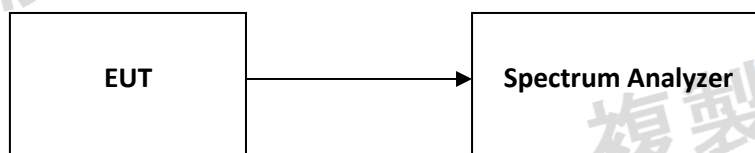
10.1 Limit

Item	Limits
Transmitting Burst Length	8ms or less

10.2 Measurement Procedure

Test Method for Radio Equipment mentioned in Certification Regulations Article 2, Item 19-3 MIC Notice No.88 Annex45 Clause 10.

10.3 Test Configuration



10.4 Test Results of Collateral Radio Emission of Receiver

Please refer to Appendix

11 Carrier Sense Function

Test result: Pass

11.1 Measurement Procedure

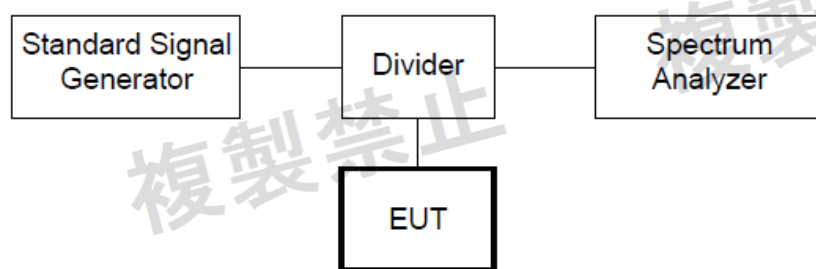
- 1) Setting of standard signal generator is given as below:

Carrier Frequency	Center frequency in the RX frequency band of the EUT
Modulation	No-modulation (Note)
Output Level	Same level as a value corresponding to the electrical field intensity of 100 mV/m

Note: In case the carrier sense function of the EUT does not work with no-modulated carrier at the center frequency, the frequency may be shifted or modulation is performed, if necessary.
- 2) Spectrum analyzer is set as below:

Central Frequency	Central frequency of frequency band in use
Sweep Frequency Bandwidth	50 MHz
Resolution Bandwidth	Approx 1 MHz
Video Bandwidth	Same level as Resolution Bandwidth
Y-Axis Scale	10 dB/Div
Trigger Condition	Free run
Phase-Detection Mode	Positive peak
- 3) With the standard signal generator output OFF, turn the EUT on the TX mode. Verify with the spectrum analyzer that TX signal is put out.
- 4) Set the EUT on RX mode.
- 5) With the standard signal generator output ON, turn the EUT on the TX mode. Verify with the spectrum analyzer that TX signal is not put out.

11.2 Test Configuration



11.3 Test Results of Carrier Sense Function

Mode	EUT Freq (MHz)	Pcs (dBm)	Result
802.11ax(HE20)	5220	-47.46	Pass
802.11ax(HE20)	5280	-47.56	Pass
802.11ax(HE40)	5190	-47.41	Pass
802.11ax(HE40)	5270	-47.55	Pass
802.11ax(HE80)	5210	-47.45	Pass
802.11ax(HE80)	5290	-47.58	Pass
802.11ax(HE160)	5250	-47.51	Pass

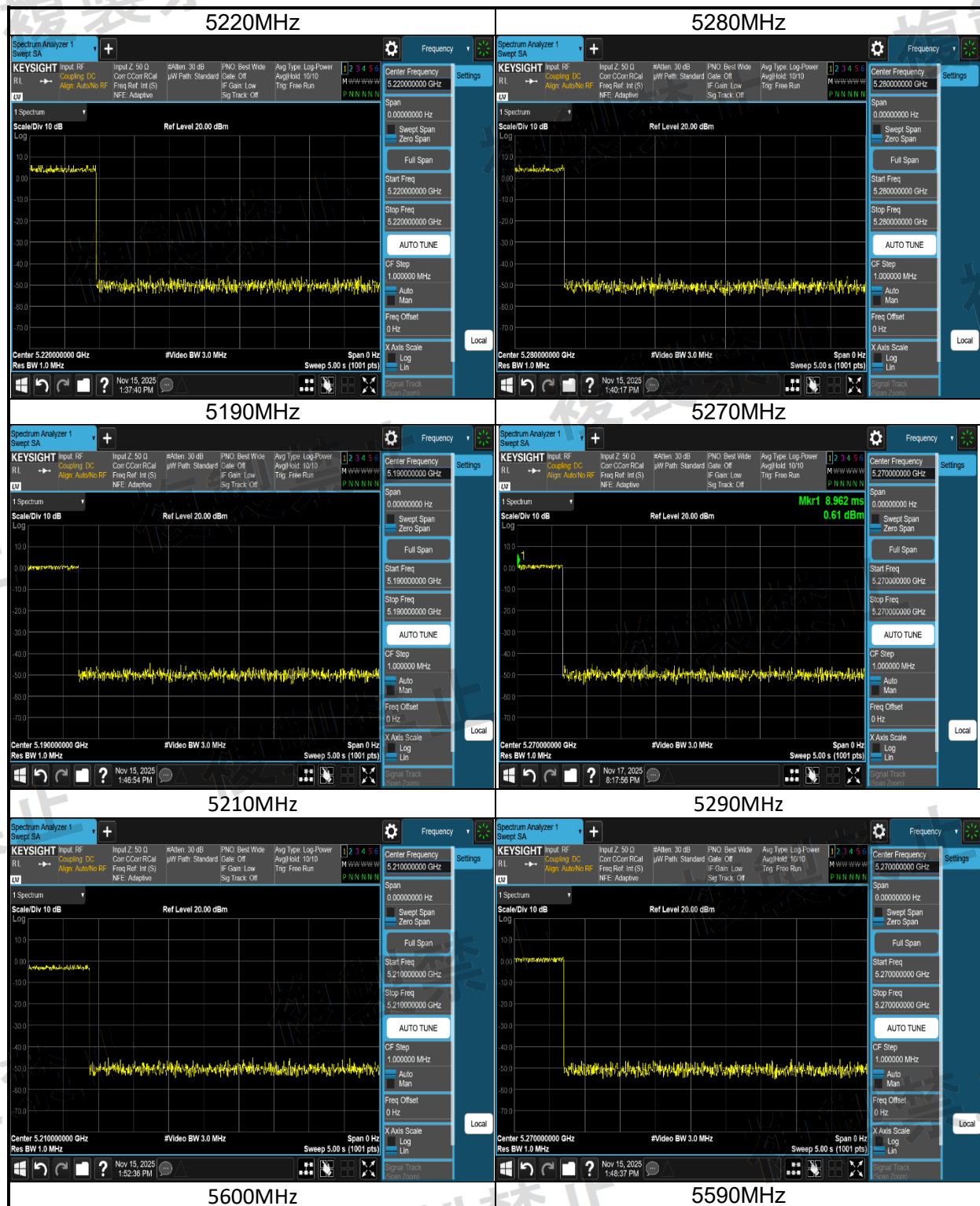
Mode	EUT Freq (MHz)	Pcs (dBm)	Result
802.11ax(HE20)	5600	-48.07	Pass
802.11ax(HE40)	5590	-48.06	Pass
802.11ax(HE80)	5610	-48.09	Pass
802.11ax(HE160)	5570	-48.03	Pass

Note:

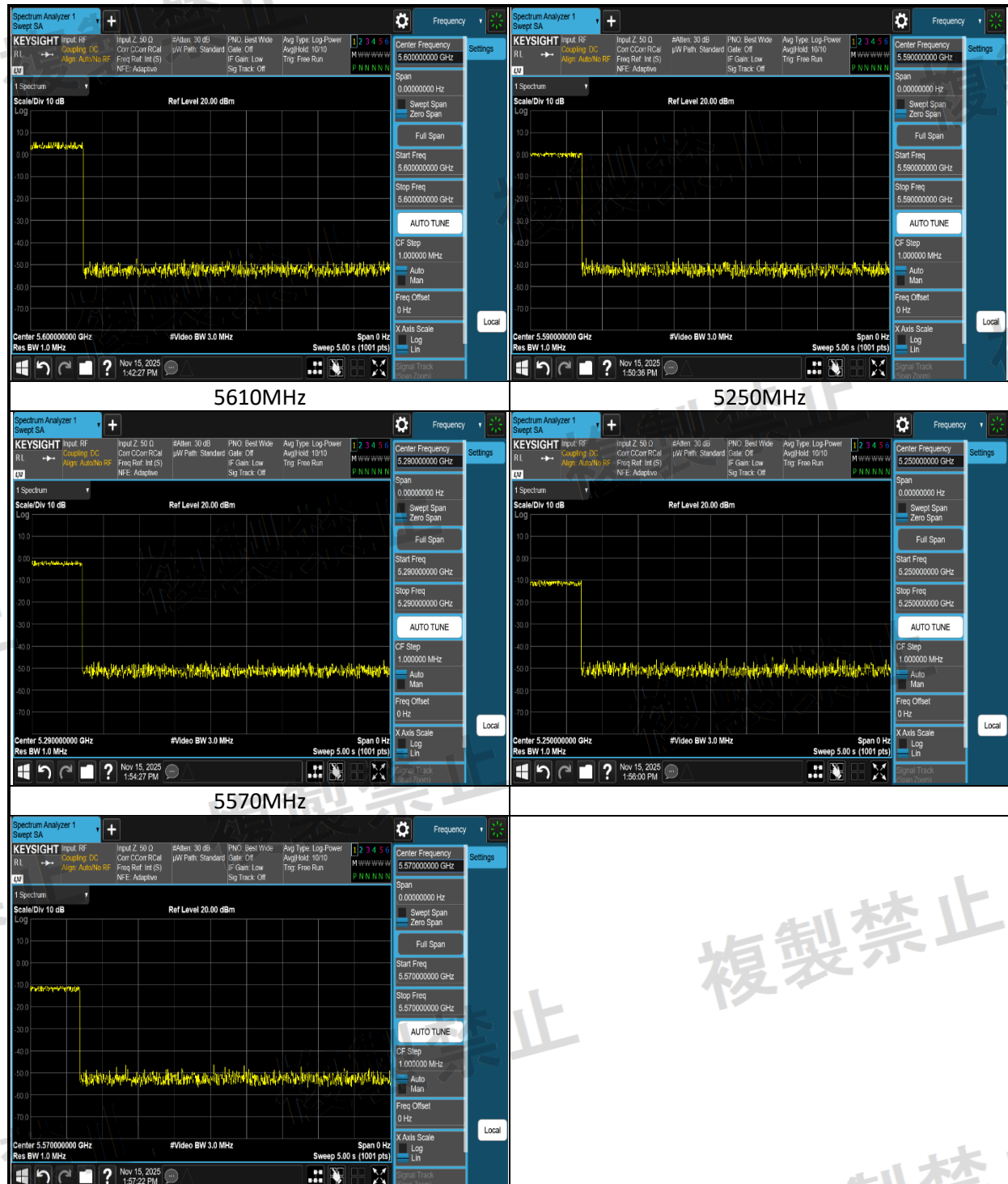
Pcs (dBm) = 22.79 + Gr - 20*log(F)

Gr: Antenna gain (5150-5730MHz: 4.1dBi)

F: Transmission frequency (MHz)



TEST REPORT



12 Interference prevention function

Test result: Pass

12.1 Limit

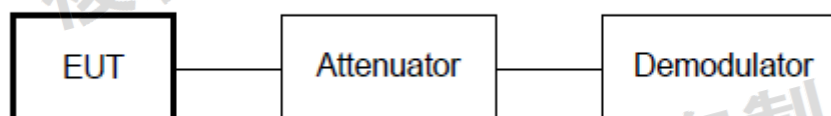
Item	Limits
Identification code	≥ 48 bits

12.2 Measurement Procedure

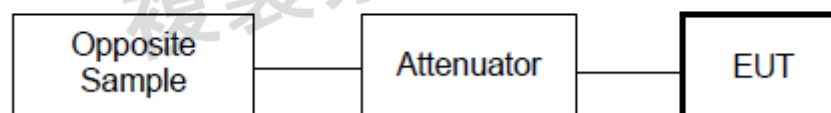
- (1) In case the EUT possesses function to transmit identification code automatically:
 - a. Predetermined identification code is transmitted by the EUT.
 - b. Verify the transmitted identification code.
- (2) In case the EUT possesses function to receive identification code automatically:
 - a. Predetermined identification code is transmitted by the opposite sample.
 - b. Verify the working of the normal communication.
 - c. Other code than the predetermined identification code is transmitted by the opposite sample.
 - d. Verify the EUT to stop transmitting or to display that the ID code is different.

12.3 Test Configuration

(1) In case identification code is transmitted



(2) In case identification code is received



12.4 Test Results of Interference prevention function

MAC address	:	00:90:4C:59:0C:00
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Test Plot:

Wireless Adapter Location

Location: AccessPoint

Hostname: 192.168.1.1

Wireless Hostname: 192.168.1.171

AP Login Name: admin

AP Password: admin

CLI Prompt: >

Shell Command: sh

Device Scan

wl0: MAC: 00:90:4C:59:0B:00
 wl1: MAC: 00:90:4C:59:0C:00
 wl2: MAC: 00:90:4C:59:80:3B

13 Construction Protection Confirmation Method

Test result: Pass

13.1 Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

13.2 Confirmation Method

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot-fused.
☐	Cover is specially interlocked.
☐	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☒	RF and Modulation parts are mounted on PCB with surface mount technology, and there is no any adjustable parts on PCB or adjustable parts are not exposed.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	Other:

13.3 The Photos of Construction Protection

Please refer to the EUT's photos.

Appendix: Test results

Refer to Appendix for test result.

***** END *****