

Japan Test Report

**Test report
On Behalf of
Winner Wave Limited
For
Pocket
Model No.: R-1D, R-1, R-2, R-2D, R-3, R-3D**

Prepared For : **Winner Wave Limited**
**Unit 2003 Cheong Tai Commercial Building 287-289 Reclamation Street, Kowloon,
Hong Kong**

Prepared By : **Shenzhen HUAKE Testing Technology Co., Ltd.**
**1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China**

Date of Test: **Dec. 11, 2025 ~ Dec. 31, 2025**

Date of Report: **Dec. 31, 2025**

Report Number: **HK2512116509-2E**

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Test Result Certification

Applicant's name : Winner Wave Limited
Address : Unit 2003 Cheong Tai Commercial Building 287-289 Reclamation Street, Kowloon, Hong Kong
Manufacture's Name : Actions Microelectronics Co., Ltd.
Address : 201, No.9 Building, Software Park, KeJiZhongEr Road, GaoXinQu, NanShan, Shenzhen, China

Product description

Trade Mark: EZCast
Product name : Pocket
Model and/or type reference : R-1D, R-1, R-2, R-2D, R-3, R-3D

Standards : Article 2 Paragraph 1 of Item 19-3

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen HUAKE Testing Technology Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen HUAKE Testing Technology Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Date of Test :
Date (s) of performance of tests : Dec. 11, 2025 ~ Dec. 31, 2025
Date of Issue : Dec. 31, 2025
Test Result : Pass

Testing Engineer : Len Liao
(Len Liao)

Technical Manager : Sliver Wan
(Sliver Wan)

Authorized Signatory : Jason Zhou
(Jason Zhou)



Table of Contents

Page

1 . Summary of Test Results	5
1.1 Information of the Test Laboratory	6
1.2 Measurement Uncertainty	6
2 . General Information	7
2.1 General Description of EUT	7
2.2 Description of Test Modes	9
2.3 Test Conditions	10
2.4 Table for Parameters of Test Software Setting	11
2.5 Block Diagram Showing the Configuration of System Tested	12
2.6 Description Of Support Units(Conducted Mode)	12
2.7 Equipments List for All Test Items	13
3 . RF Shielding Method	14
4 . Test Result for WIFI	15
4.1 Frequency Error	15
4.2 . Antenna and EIRP Power	20
4.3 . Occupied Bandwidth	23
4.4 . Tolerance of Spurious Emission Intensity	29
4.5 . Out-Band Emissions Power	55
4.6 . Limit of Secondary Radiated Emissions	60
4.7 . Radio Interference Prevention Capability Measurement	70
4.8 . Carrier Sense Capability	72
4.9 . Adjacent Channel Power	74
4.10 . Burst Length	79
4.11 . Interference Prevention Function	85
5 . EUT Test Photo	87

**** Issued history ****

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	Dec. 31, 2025	Jason Zhou

1. Summary of Test Results

Test procedures according to the technical standards:

Part	Rule Section	Description of Test	Result
5	Frequency Error	--	PASS
6	Occupied Bandwidth (99%)	--	PASS
7	Unwanted Emission Intensity	--	PASS
14	Antenna Power Error	--	PASS
24	Limitation of Collateral Emission of Receiver	--	PASS
49.20(3);a	High Frequency/modulation section cannot be opened easily	--	PASS
49.20(3);b	Communication Method	--	PASS
49.20(3);c	Modulation method	--	PASS
49.20(3);d	Signal transmission rate	--	PASS
49.20(3);e	Burst Length	--	PASS
49.20(3);f	Antenna Power Error	--	PASS
49.20(3);g	Isotropically radiated power	--	PASS
49.20(3);g	Adjacent channel power tolerance	--	PASS
49.20(3);j	Interference prevention function	--	PASS
49.20(3);k	Carrier sense capability	--	PASS
--	Out-band emission power	--	PASS

NOTE:

- (1) PASS: Test item meets the requirement.
- (2) Fail: Test item does not meet the requirement.
- (3) N/A: Test case does not apply to the test object.
- (4) The test result judgment is decided by the limit of test standard.
- (5) Article 2 Paragraph 1 of Item 19-3, annex 45 and annex 1
- (6) Section 4.17 Radio Equipment of Radio Stations of a Low-Power Data Communication System (Article 49.20)

1.1 Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

1.2 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.71\text{dB}$
2	Radiated Emission Test	$\pm 3.35\text{dB}$
3	RF power, conducted	$\pm 0.37\text{dB}$
4	Spurious emissions ,conducted	$\pm 0.11\text{dB}$
5	All emissions, radiated(<1G)	$\pm 3.90\text{dB}$
6	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$

2. General Information

2.1 General Description of EUT

Equipment	Pocket
Model Name	R-1D
Series Model	R-1, R-2, R-2D, R-3, R-3D
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: R-1D.
Trade Mark	EZCast
Operation frequency	IEEE 802.11a/n (HT20) 5.260GHz-5.320GHz IEEE 802.11n (HT40) 5.270GHz-5.310GHz
Modulation Type	IEEE for 802.11a/n: OFDM (BPSK/QPSK/16QAM, 64QAM)
Bit Rate of Transmitter	802.11a/n (20MHz): 65/58.5/52/39/26/19.5/13/6.5 Mbps 802.11n (40MHz): 135/121.5/108/81/54/40.5/37/13.5 Mbps
Antenna Type	Iron sheet antenna
Antenna Gain	2.22dBi
Power Source	DC5V From Type-C
Power Rating	DC5V From Type-C
Firmware Version	V26140012
Hardware Version	V6.1

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2. Operation Frequency of channel

Channel List for 802.11a/n (HT20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	56	5280	60	5300	64	5320

Channel List for 802.11n (HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	62	5310				

Note: Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

5.3G

For 802.11a/n (HT20)	
Channel	Frequency
52	5260
56	5280
64	5320

For 802.11n (HT40)	
Channel	Frequency
54	5270
62	5310

3.

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1/2	N/A	N/A	Iron sheet antenna	N/A	2.22	

4. This device does not support TPC

2.2 Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	
Mode 1	TX IEEE 802.11a CH52&CH56&CH64	6 Mbps
Mode 2	TX IEEE 802.11n HT20 CH52&CH56&CH64	MCS 0
Mode 3	TX IEEE 802.11n HT40 CH54&CH62	MCS 0

2.3 Test Conditions

The WIFI module was tested while in a continuous transmitter/receiver mode. The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

Power Supply Voltage Fluctuation Test

Voltage Mode	Input Voltage	Radio Unit Voltage
Input	DC 4.5V	3.31V
	DC 5.0V	3.30V
	DC 5.5V	3.30V
Note: 1. The radio unit Voltage with the module regulator IC regulator. 2. The radio unit less than 1%, so the test only rated voltage (Normal voltage) with the DC power.		

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.

2.4 Table for Parameters of Test Software Setting

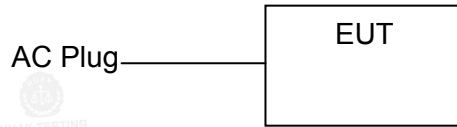
During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. the RF output power selection is for the setting of RF output power expected by the customer and going to be fixed on the firmware of the final end product.

Test Software Version	Ssh, Telnet And Rlogin Client (.exe) 0.63.10029.0		
Frequency	5260MHz	5280MHz	5320MHz
IEEE 802.11a	DE9	DE9	DE9
IEEE 802.11n (20M)	DE8	DE8	DE8

Frequency	5270MHz	5310MHz
IEEE 802.11n(40M)	DE3	DE3

2.5 Block Diagram Showing the Configuration of System Tested

Mode 1:



2.6 Description Of Support Units(Conducted Mode)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Pocket	EZCast	R-1D	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	NO	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.7 Equipments List for All Test Items

Item	Equipment	Manufacturer	Calibration Institution	Model No.	Serial No.	Equipment Number	Last Cal.	Cal. Interval
1	Spectrum analyzer	Agilent	Guangzhou LiSai Metrology & Test Co., Ltd.	N9020A	101431	HKE-025	2025/02/19	1 Year
2	Spectrum analyzer	R&S	Guangzhou LiSai Metrology & Test Co., Ltd.	FSV3044	25984	HKE-126	2025/02/19	1 Year
3	RF Automatic control unit	Tonscend	Guangzhou LiSai Metrology & Test Co., Ltd.	JS0806-2	71557	HKE-060	2025/02/19	1 Year
4	High pass filter unit	Tonscend	Guangzhou LiSai Metrology & Test Co., Ltd.	JS0806-F	17155	HKE-055	2025/02/19	1 Year
5	Wireless Communication Test Set	R&S	Guangzhou LiSai Metrology & Test Co., Ltd.	CMU200	105255	HKE-026	2025/02/19	1 Year
6	Wireless Communication Test Set	R&S	Guangzhou LiSai Metrology & Test Co., Ltd.	CMW500	103974	HKE-027	2025/02/19	1 Year
7	RF Test Software	Tonscend	/	JS1120-3 Version 3.5.39	/	HKE-083	/	/

Note: The calibration agency listed on the table corresponds to item ii c) of Article 24-2 paragraph 4.

3. RF Shielding Method

We apply the product for Japan RF certification. Number of terminals is 40, Terminal pitch is 1 mm. It is not easily removed. Please refer to following for photo for details. Red circle part of the RF module soldered on the PCB.



4. Test Result for WIFI

4.1 Frequency Error

4.1.1 Limit

Item	Limits
Frequency Error	+/-20ppm

4.1.2 Measuring Instruments and Setting

The following table is the setting of Spectrum Analyzer.

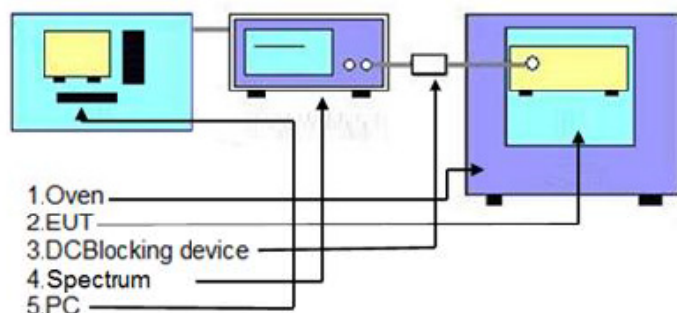
Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.1.3 Test Procedures

- (1) In the case of un-modulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
- (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
- (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
- (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.

In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

4.1.4 Test Setup Layout



4.1.5 EUT Operation During Test

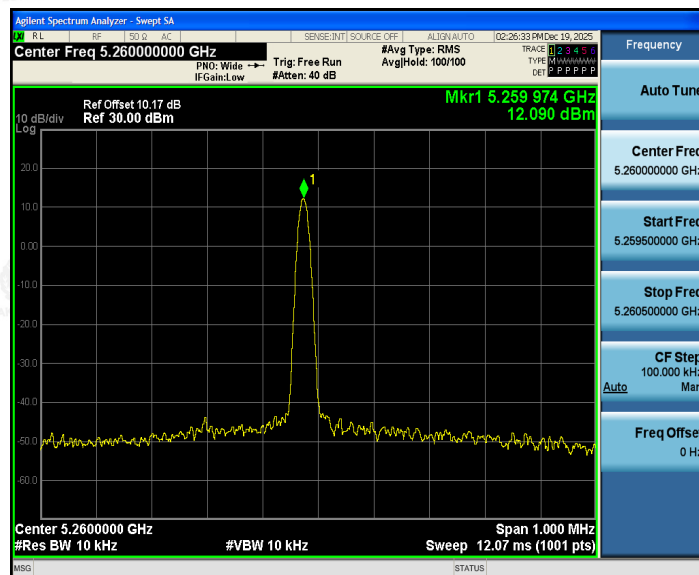
The EUT was placed on the test table and programmed in un-modulation function.

4.1.6 Test Result

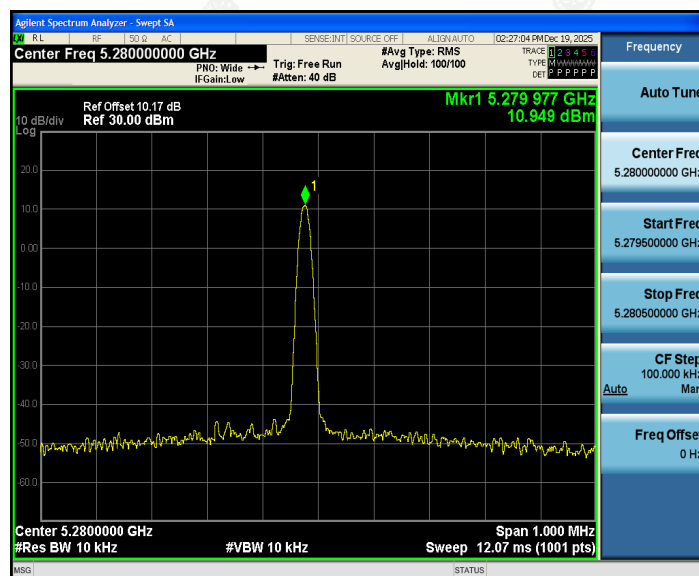
EUT :	Pocket	Test Date:	Dec. 19, 2025
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage- Carrier Tx Mode		

Frequency (MHz)	Measured	Tolerance	Result	Limit
	MHz	MHz	ppm	ppm
5260	5259.974	-0.026	-4.94297	+/-20
5280	5279.977	-0.023	-4.35606	+/-20
5320	5319.979	-0.021	-3.94737	+/-20
5270	5269.972	-0.028	-5.31309	+/-20
5310	5309.972	-0.028	-5.27307	+/-20
Conclusion : PASS				

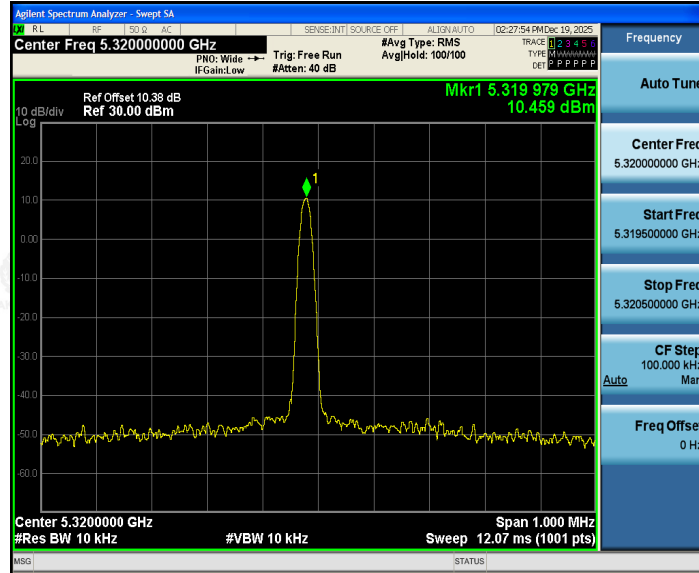
CH52: 5260MHz



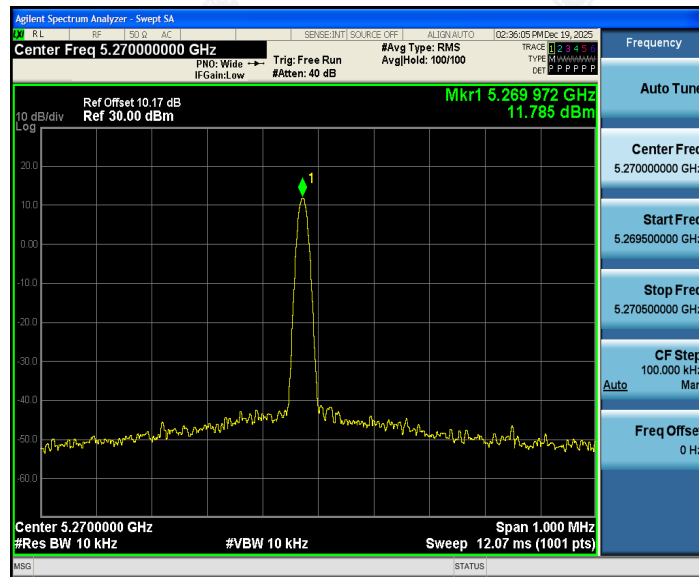
CH56: 5280MHz



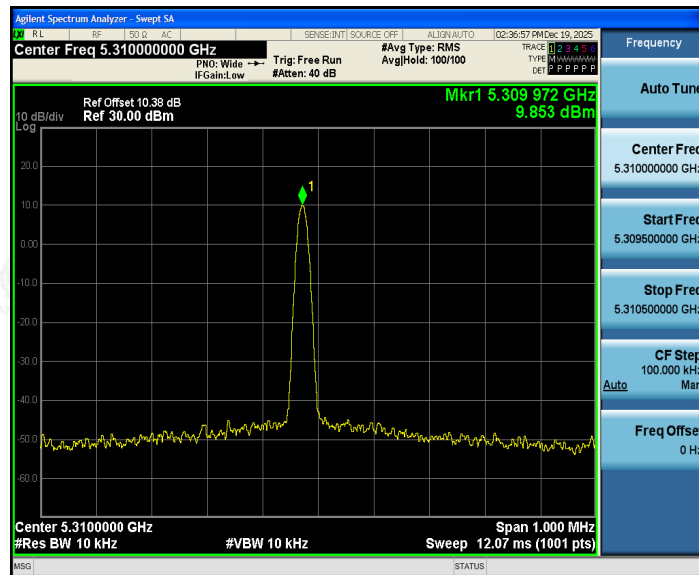
CH64: 5320MHz



CH54: 5270MHz



CH62: 5310MHz



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAK Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

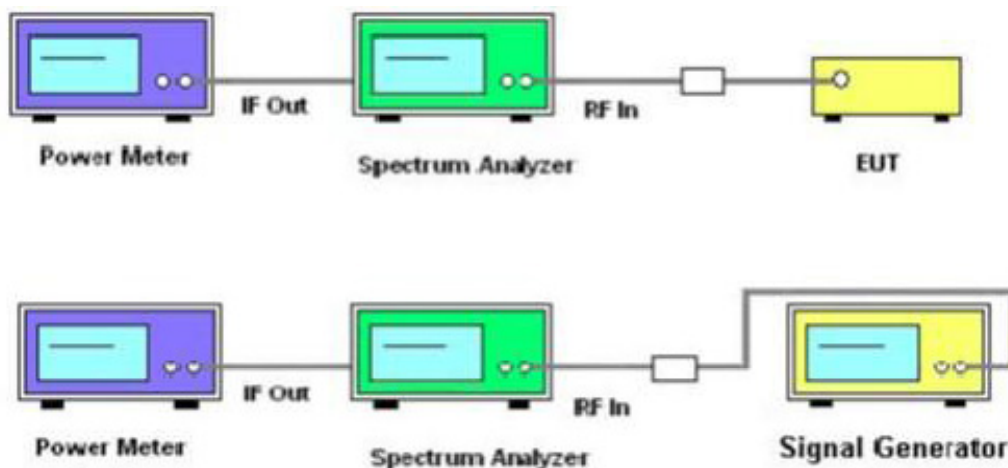
Shenzhen HUAK Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

4.2. Antenna and EIRP Power

4.2.1 Limit

Item	Limits
Antenna Power Density	(1) OFDM , DS : (HT20)10mW/MHz or less, (HT40)5mW/MHz or less, (HT80)2.5mW/MHz or less, (2) Other : 10mW or less
Radiation power EIRP	CCK/OFDM/DBPSK 5260~5320MHz) (1) 5,260 MHz, 5,280MHz, 5,300 MHz, 5,320 MHz, (HT20) 5mW/MHz or less (2) 5,270 MHz、5,310MHz、 (HT40) 2.5mW/MHz or less (3) 5,290 MHz (HT80) 1.25mW/MHz or less
Antenna Power Error	+20%, -80% (Base on manufacturer declare Antenna power density)

4.2.2 Test Setup Layout



4.2.3 Test Deviation

There is no deviation with the original standard.

4.2.4 Test Result

EUT:	Portable TV with Android	Test Date:	Dec. 19, 2025
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage- Carrier Tx Mode		

Modulation Technology	Test Frequency (MHz)	Ant output POWER (dBm/MHz)	Ant output (mW/MHz)	Declared Power (mW/MHz)	Tolerance %
802.11a	5260	3.8	2.3988	5	-52.02
	5280	4.23	2.6485	5	-47.03
	5320	3.53	2.2542	5	-54.92
802.11n (HT20)	5260	3.84	2.4210	5	-51.58
	5280	2.8	1.9055	5	-61.89
	5320	4.67	2.9309	5	-41.38
802.11n (HT40)	5270	0.64	1.1588	2	-42.06
	5310	-1.13	0.7709	2	-61.45
Limit : (1) Antenna Power Density Limit is (HT20)10mW/MHz or less, (HT40)5mW/MHz or less, (HT80)2.5mW/MHz or less, Other is 10mW or less (2) Tolerance +20%, -80% (Base on manufacturer declare Antenna Power Density)					

Equivalent Isotropically Radiated Power

Modulation Technology	Channel (MHz)	Antenna Power Density(dBm/MHz)+Gain(dBi)		EIRP output (dBm/MHz)	EIRP output (mW/MHz)
802.11a	5260	3.8	2.22	6.02	3.9994
	5280	4.23	2.22	6.45	4.4157
	5320	3.53	2.22	5.75	3.7584
802.11n (HT20)	5260	3.84	2.22	6.06	4.0365
	5280	2.8	2.22	5.02	3.1769
	5320	4.67	2.22	6.89	4.8865
802.11n (HT40)	5270	0.64	2.22	2.86	1.9320
	5310	-1.13	2.22	1.09	1.2853
Limit : (1) EIRP limit is (HT20)5mW/MHz or less, (HT40)2.5mW/MHz or less, (HT80)1.25mW/MHz or less, Other is 5mW/MHz or less					

EIRP power = Antenna power density + Gain.

Gain: 2.22dBi

4.3. Occupied Bandwidth

4.3.1 Limit

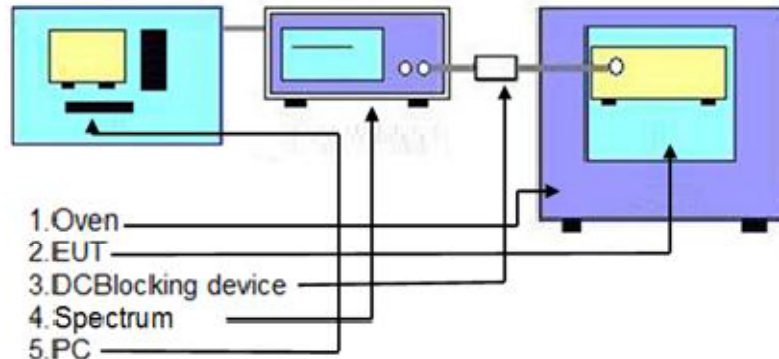
Item	Limits	
Occupied Band Width:	a/ HT20	≤20MHz
	HT40	≤40MHz
	HT80	≤80MHz
	Other Limits for report test result only.	

4.3.2 Measuring Instruments and Setting

TEST PROCEDURES

- Setting of SA is following as: 802.11a/n/ac RB: 300KHz / VB:300KHz / SPAN: 40/80/160MHz
Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device).
SA set to 99% of occupied bandwidth to measure occupied bandwidth.

4.3.3 Test Setup Layout



4.3.4 Test Deviation

There is no deviation with the original standard.

4.3.5 EUT Operation During Test

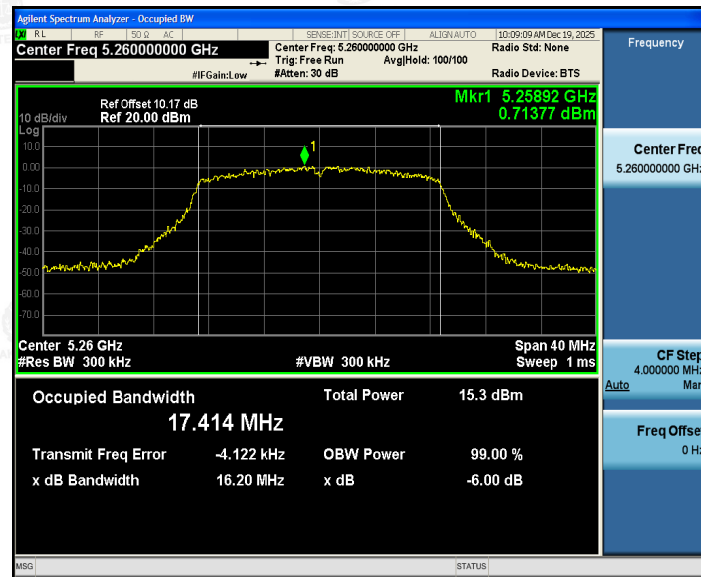
The EUT was programmed to be in continuously transmitting mode.

4.3.6 Test Result

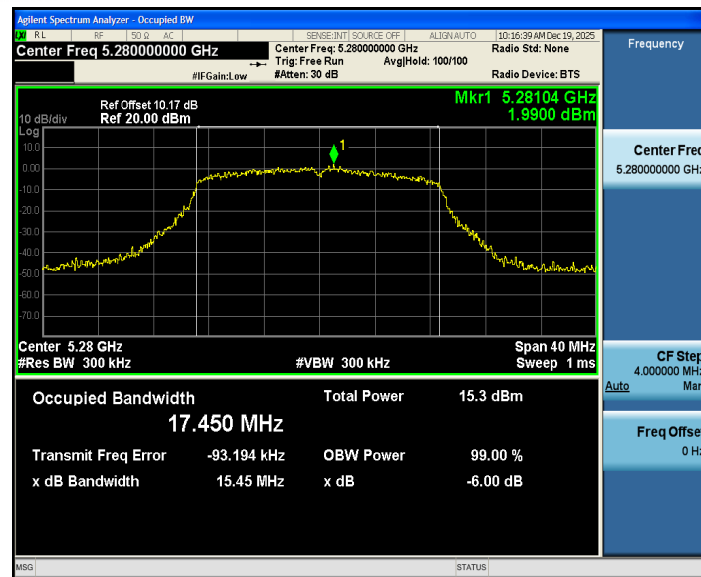
EUT :	Pocket	Test Date:	Dec. 19, 2025
Temperature:	25 ⁰ C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage-802.11a/n		

Mode	Test channel	Occupied Bandwidth (MHz)
11a	CH52	17.414
11a	CH56	17.450
11a	CH64	17.461
11n(HT20)	CH52	17.426
11n(HT20)	CH56	17.439
11n(HT20)	CH64	17.474
11n(HT40)	CH54	35.003
11n(HT40)	CH62	35.262

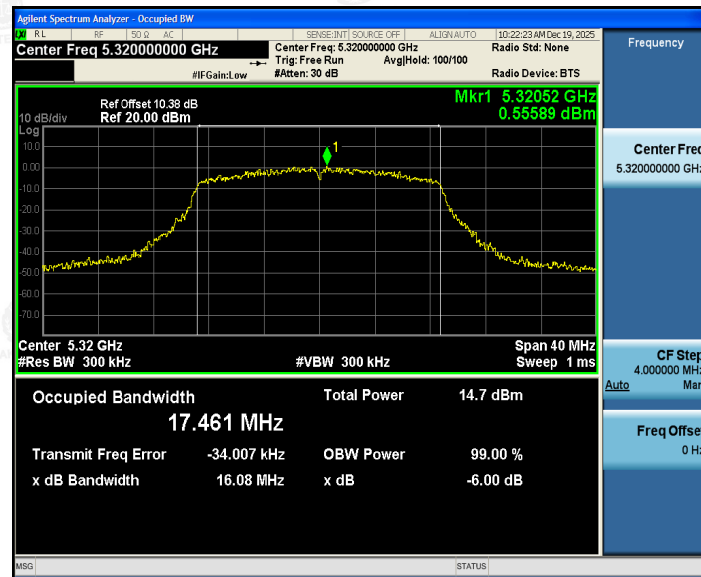
802.11a 5260MHz



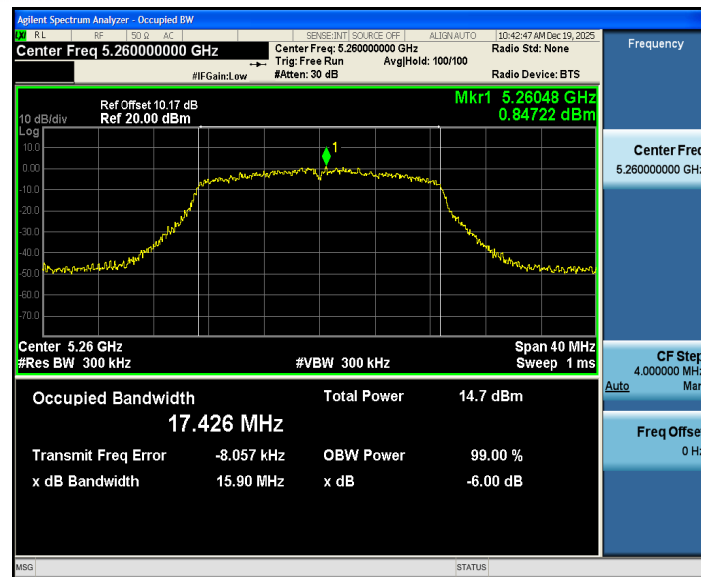
802.11a 5280MHz



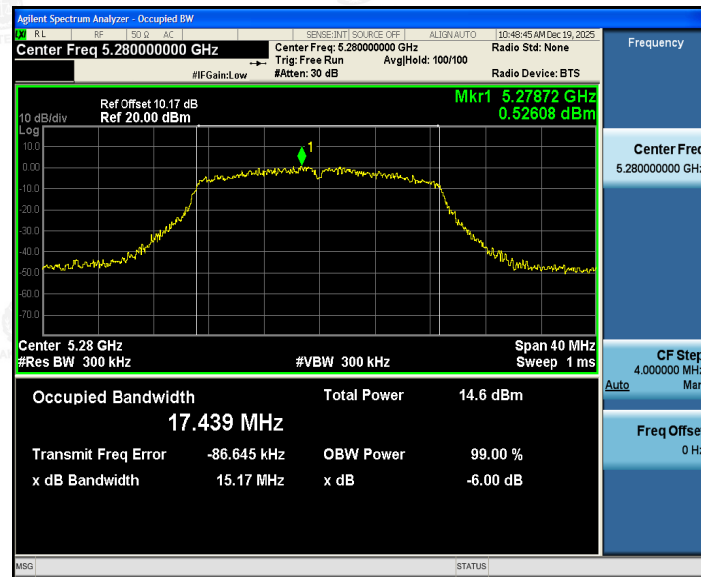
802.11a 5320MHz



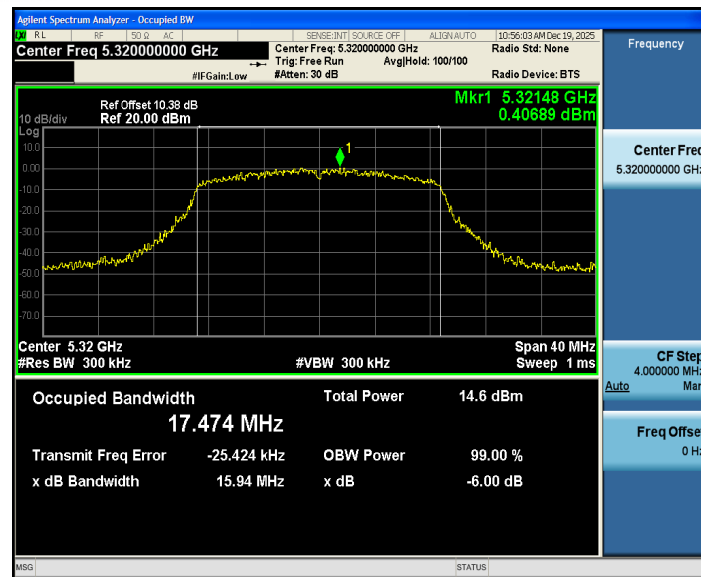
802.11n(HT20) 5260MHz



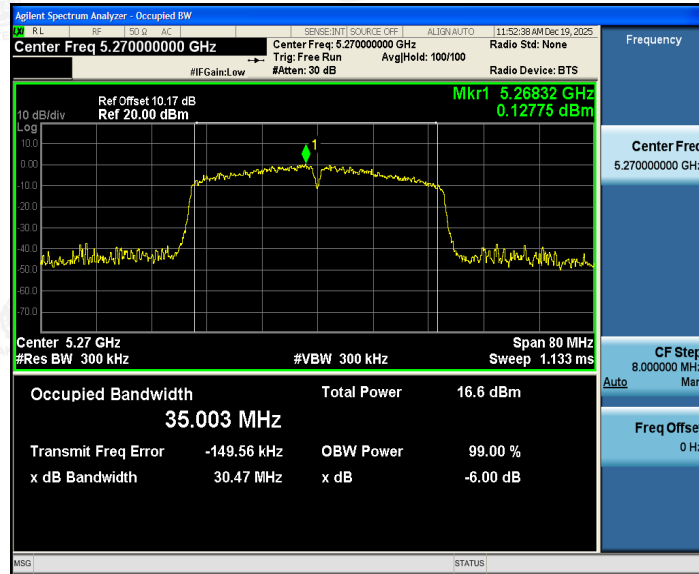
802.11n(HT20) 5280MHz



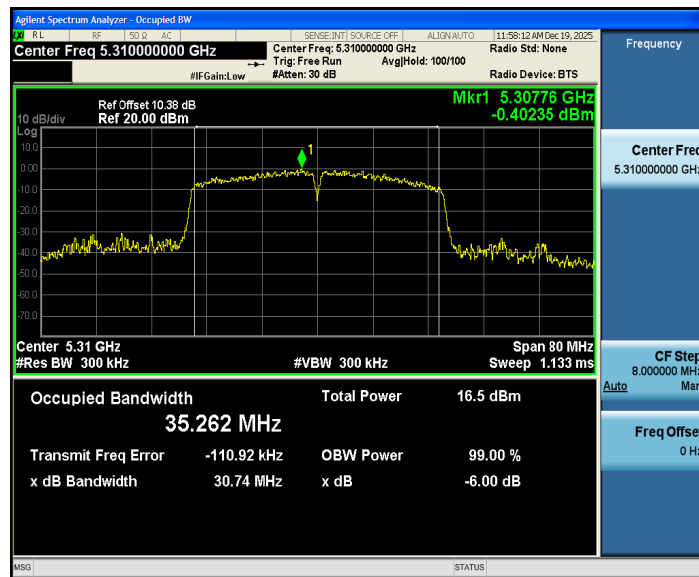
802.11n(HT20) 5320MHz



802.11n(HT40) 5270MHz



802.11n(HT40) 5310MHz



4.4. Tolerance of Spurious Emission Intensity

4.4.1 Limit

Item	Limits	
TX Spurious Emission	HT20	$\leq 2.5 \mu\text{W}/\text{MHz}$ ($30\text{MHz} \leq f \leq 5460\text{MHz}$)
		$\leq 12.5 \mu\text{W}/\text{MHz}$ ($5460\text{MHz} \leq f \leq 5470\text{MHz}$)
		$\leq 12.5 \mu\text{W}/\text{MHz}$ ($5470\text{MHz} \leq f \leq 5765\text{MHz}$)
		$\leq 2.5 \mu\text{W}/\text{MHz}$ ($5765\text{MHz} \leq f \leq 26000\text{MHz}$)
	HT40	$\leq 12.5 \mu\text{W}/\text{MHz}$ ($30\text{MHz} \leq f \leq 5460\text{MHz}$)
		$\leq 50 \mu\text{W}/\text{MHz}$ ($5460\text{MHz} \leq f \leq 5470\text{MHz}$)
		$\leq 12.5 \mu\text{W}/\text{MHz}$ ($5770\text{MHz} \leq f \leq 26000\text{MHz}$)
	HT80	$\leq 12.5 \mu\text{W}/\text{MHz}$ ($30\text{MHz} \leq f \leq 5340\text{MHz}$)
		$\leq 12.5 \mu\text{W}/\text{MHz}$ ($5340\text{MHz} \leq f \leq 5460\text{MHz}$)
		$\leq 50 \mu\text{W}/\text{MHz}$ ($5460\text{MHz} \leq f \leq 5469.5\text{MHz}$)
		$\leq 51.2 \mu\text{W}/\text{MHz}$ ($5469.5\text{MHz} \leq f \leq 5470\text{MHz}$)
		$\leq 12.5 \mu\text{W}/\text{MHz}$ ($5770\text{MHz} \leq f \leq 5780\text{MHz}$)
		$\leq 12.5 \mu\text{W}/\text{MHz}$ ($5800\text{MHz} \leq f \leq 26000\text{MHz}$)

4.4.2. Measuring Instruments and Setting

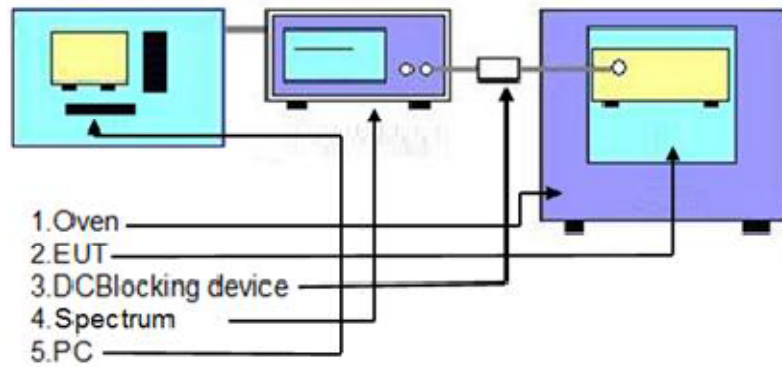
The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz/1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.4.3. Test Procedures

- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as: RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold
- Setting of SA is following as 30MHz and stop frequency 5140MHz/5100MHz/5020MHz,
Then to mark peak reading value + cable loss shall be less than 2.5μW.
- SA adjusted to start frequency 5360MHz/5400MHz/5480MHz and stop frequency 26000MHz.
Then to mark peak reading value + cable loss shall be less than 2.5μW.

4.4.4. Test Setup Layout



4.4.5. Test Deviation

There is no deviation with the original standard.

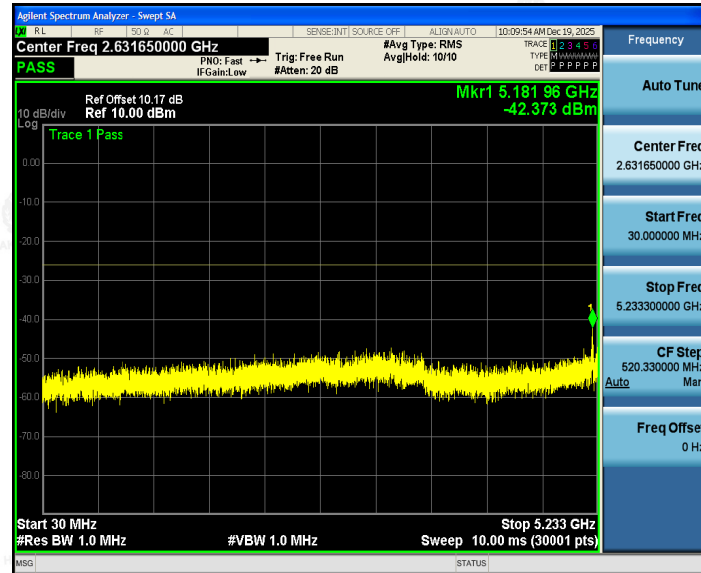
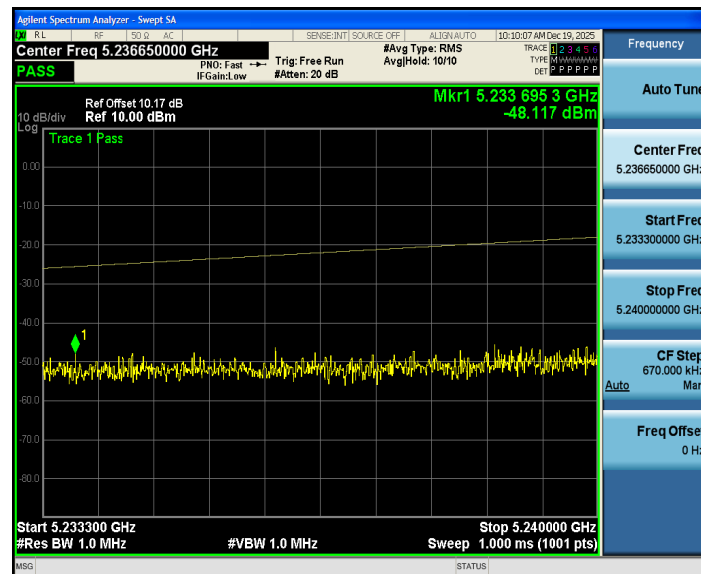
4.4.6. Test Result

EUT :	Pocket	Test Date:	Dec. 19, 2025
Temperature:	25 ⁰ C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage-802.11a/n		

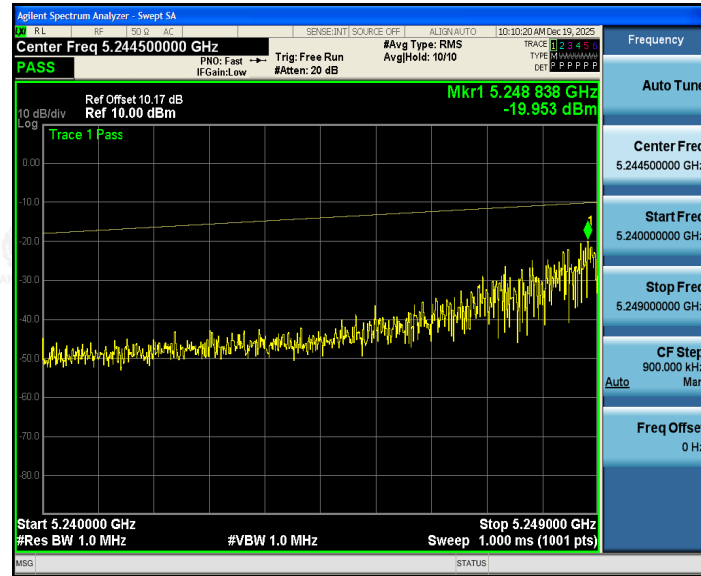
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	Mkr Fre [MHz]	Max.Fre [dBm/MHz]	Max.Level [μW/MHz]	Limit [μW/MHz]	Verdict
802.11a	5260	30	5233.3	5181.96	-42.37	0.0579	≤2.5	PASS
802.11a	5260	5233.3	5240	5233.70	-48.12	0.0154	≤4.1	PASS
802.11a	5260	5240	5249	5248.84	-19.95	10.1158	≤69.9	PASS
802.11a	5260	5249	5250	5249.07	-16.81	20.8449	≤955.0	PASS
802.11a	5260	5350	26000	25198.78	-39.60	0.1096	≤2.5	PASS
802.11a	5280	30	5233.3	5204.86	-43.07	0.0493	≤2.5	PASS
802.11a	5280	5233.3	5240	5233.89	-48.80	0.0132	≤3.1	PASS
802.11a	5280	5240	5249	5240.58	-49.56	0.0111	≤73.9	PASS
802.11a	5280	5249	5250	5249.07	-49.26	0.0119	≤109.6	PASS
802.11a	5280	5350	26000	25890.56	-39.91	0.1021	≤2.5	PASS
802.11a	5320	30	5233.3	2648.13	-47.02	0.0199	≤2.5	PASS
802.11a	5320	5233.3	5240	5233.96	-44.80	0.0331	≤2.7	PASS
802.11a	5320	5240	5249	5240.05	-43.83	0.0414	≤16.7	PASS
802.11a	5320	5249	5250	5249.00	-49.88	0.0103	≤114.8	PASS
802.11a	5320	5350	26000	24100.89	-39.23	0.1194	≤2.5	PASS
802.11n(HT20)	5260	30	5233.3	5182.13	-45.17	0.0304	≤2.5	PASS
802.11n(HT20)	5260	5233.3	5240	5234.67	-48.33	0.0147	≤4.8	PASS
802.11n(HT20)	5260	5240	5249	5249.00	-18.51	14.0929	≤80.2	PASS
802.11n(HT20)	5260	5249	5250	5249.31	-14.26	37.4973	≤109.6	PASS
802.11n(HT20)	5260	5350	26000	25182.26	-39.73	0.1064	≤2.5	PASS
802.11n(HT20)	5280	30	5233.3	5204.33	-43.56	0.0441	≤2.5	PASS
802.11n(HT20)	5280	5233.3	5240	5234.18	-48.92	0.0128	≤2.9	PASS
802.11n(HT20)	5280	5240	5249	5240.24	-50.42	0.0091	≤17.3	PASS
802.11n(HT20)	5280	5249	5250	5249.04	-49.66	0.0108	≤416.9	PASS
802.11n(HT20)	5280	5350	26000	25760.46	-39.38	0.1153	≤2.5	PASS

802.11n(HT20)	5320	30	5233.3	5213.70	-47.67	0.0171	≤2.5	PASS
802.11n(HT20)	5320	5233.3	5240	5234.00	-44.41	0.0362	≤2.5	PASS
802.11n(HT20)	5320	5240	5249	5240.23	-44.18	0.0382	≤52.4	PASS
802.11n(HT20)	5320	5249	5250	5249.08	-48.22	0.0151	≤114.8	PASS
802.11n(HT20)	5320	5350	26000	23935.00	-39.49	0.1125	≤2.5	PASS
802.11n(HT40)	5270	30	5221.6	5200.14	-45.81	0.0262	≤2.5	PASS
802.11n(HT40)	5270	5221.6	5230	5229.88	-33.89	0.4083	≤2.8	PASS
802.11n(HT40)	5270	5230	5249	5237.79	-30.43	0.9057	≤12.5	PASS
802.11n(HT40)	5270	5249	5250	5249.09	-30.58	0.8750	≤51.2	PASS
802.11n(HT40)	5270	5350	5348.4	5353.23	-48.95	0.0127	≤15	PASS
802.11n(HT40)	5270	5348.4	26000	25737.16	-39.16	0.1213	≤2.5	PASS
802.11n(HT40)	5310	30	5221.6	2463.30	-41.45	0.0716	≤2.5	PASS
802.11n(HT40)	5310	5221.6	5230	5224.16	-42.41	0.0574	≤2.5	PASS
802.11n(HT40)	5310	5230	5249	5231.01	-43.11	0.0489	≤8.5	PASS
802.11n(HT40)	5310	5249	5250	5249.07	-41.47	0.0713	≤88.9	PASS
802.11n(HT40)	5310	5350	5348.4	5350.13	-35.49	0.2825	≤15	PASS
802.11n(HT40)	5310	5348.4	26000	25198.42	-39.09	0.1233	≤2.5	PASS

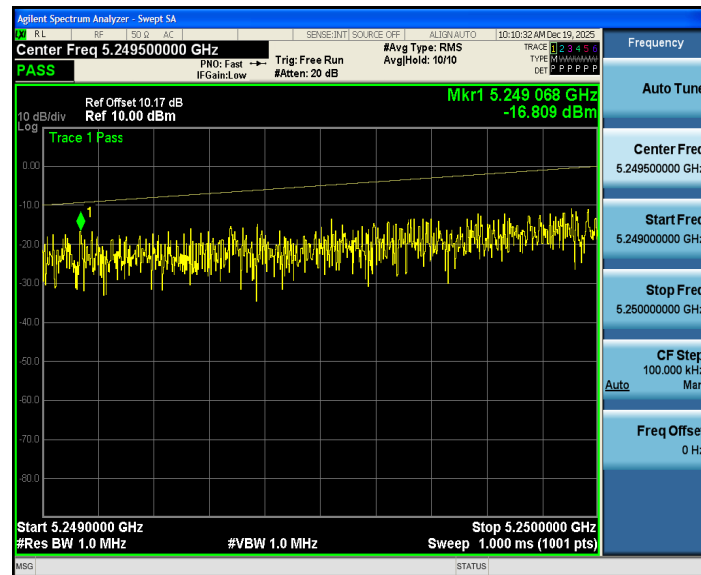
802.11a

CH 52: 5260MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 5233.3 MHz)

CH 52: 5260MHz - Frequency Band 2 (5233.3 MHz $\leq$ f $\leq$ 5240 MHz)


CH 52: 5260MHz - Frequency Band 3 (5240 MHz $\leq$ f $\leq$ 5249 MHz)



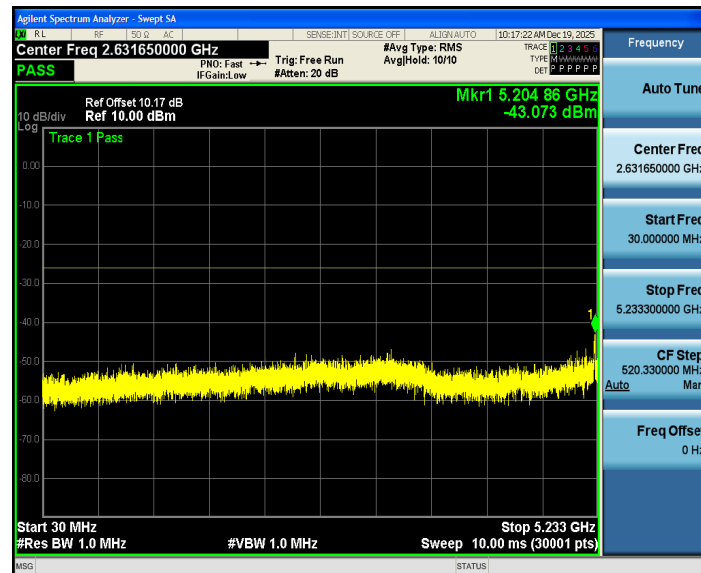
CH 52: 5260MHz - Frequency Band 4 (5249 MHz $\leq$ f $\leq$ 5250 MHz)



CH 52: 5260MHz - Frequency Band 5 ($5350 \text{ MHz} \leq f \leq 26000 \text{ MHz}$)



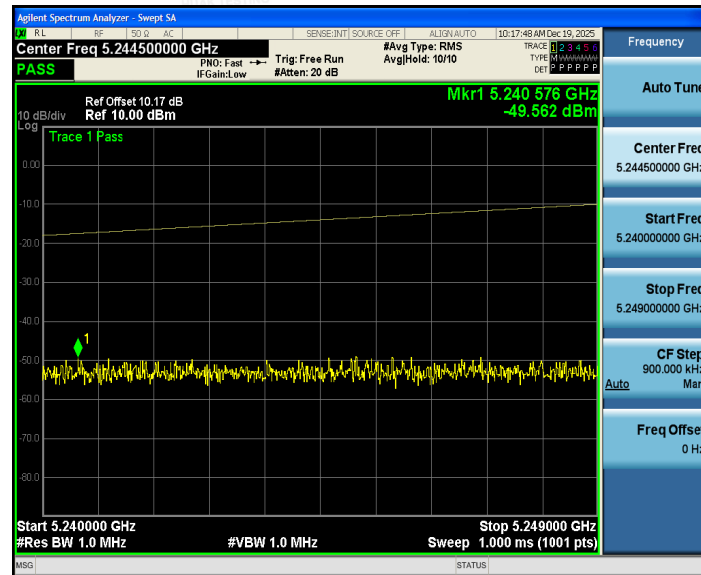
CH 56: 5280MHz - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 5233.3 \text{ MHz}$)



CH 56: 5280MHz - Frequency Band 2 ($5233.3 \text{ MHz} \leq f \leq 5240 \text{ MHz}$)



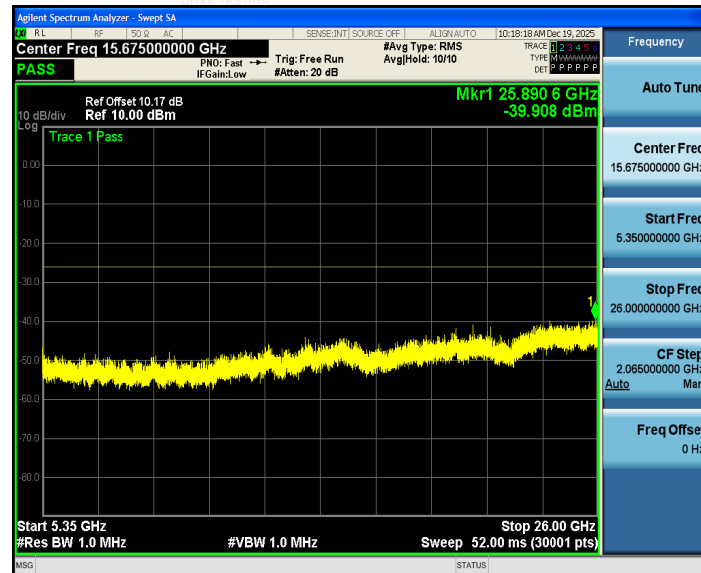
CH 56: 5280MHz - Frequency Band 3 ($5240 \text{ MHz} \leq f \leq 5249 \text{ MHz}$)



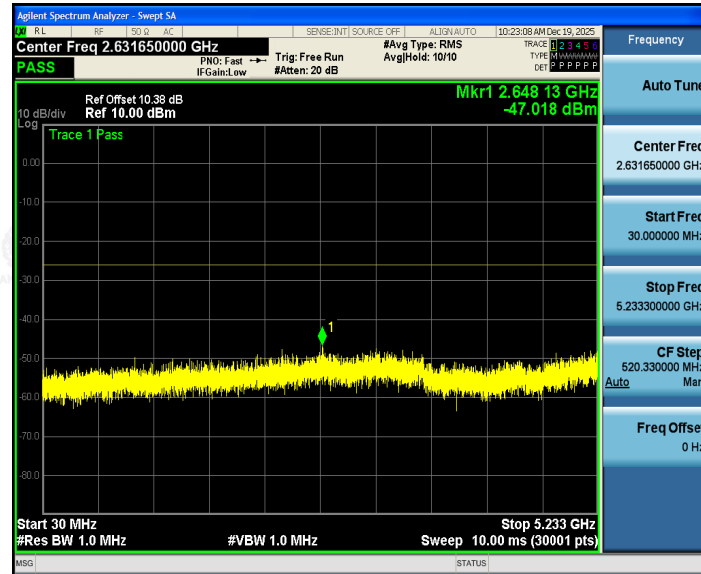
CH 56: 5280MHz - Frequency Band 4 (5249 MHz $\leq$ f $\leq$ 5250 MHz)



CH 56: 5280MHz - Frequency Band 5 (5350 MHz $\leq$ f $\leq$ 26000 MHz)



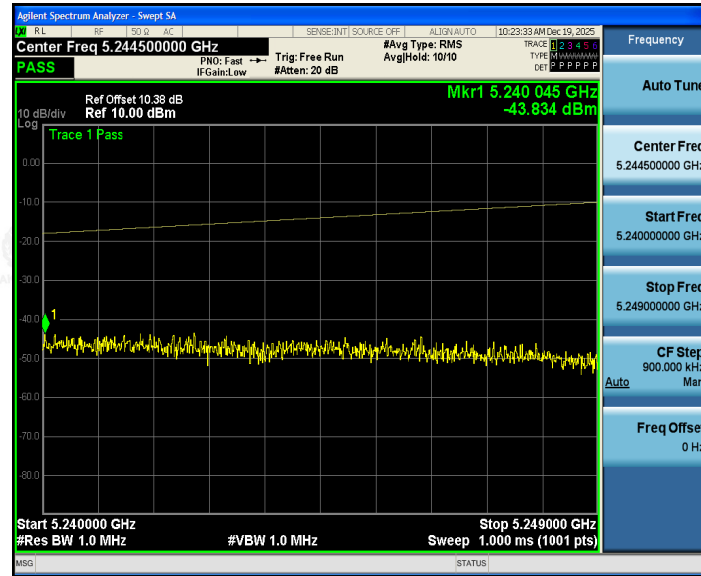
CH 64: 5320MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 5233.3 MHz)



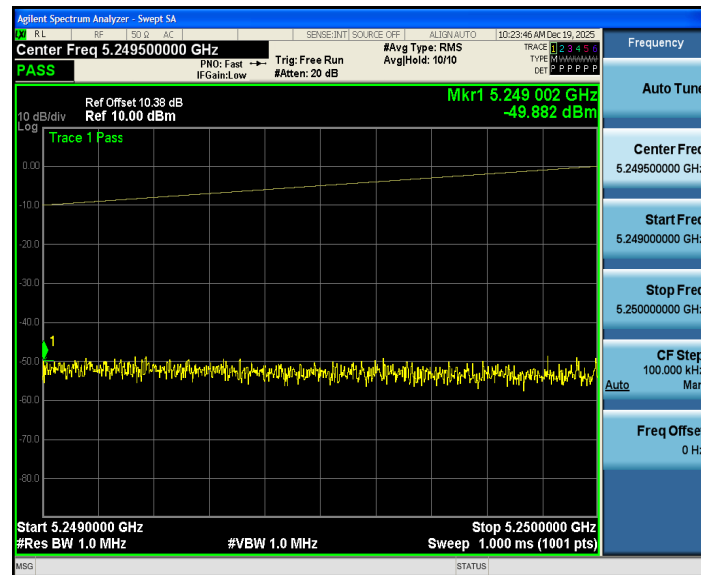
CH 64: 5320MHz - Frequency Band 2 (5233.3 MHz $\leq$ f $\leq$ 5240 MHz)



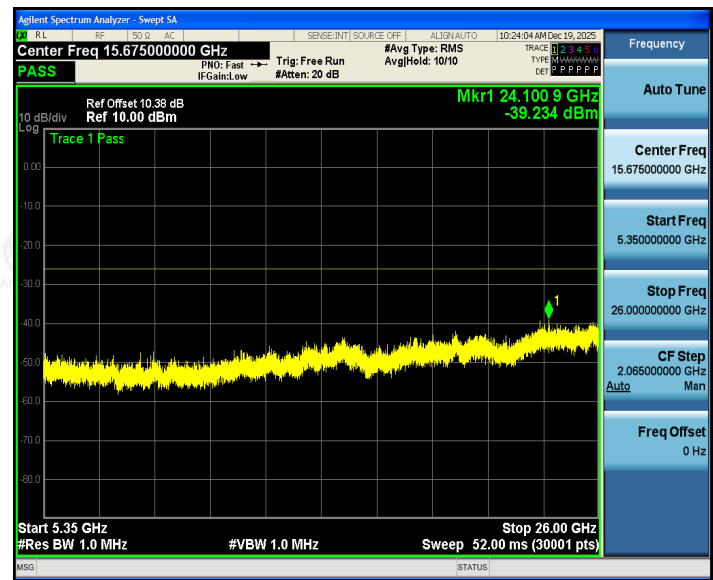
CH 64: 5320MHz - Frequency Band 3 (5240 MHz $\leq$ f $\leq$ 5249 MHz)



CH 64: 5320MHz - Frequency Band 4 (5249 MHz $\leq$ f $\leq$ 5250 MHz)



CH 64: 5320MHz - Frequency Band 5 (5350 MHz ≤ f ≤ 26000 MHz)

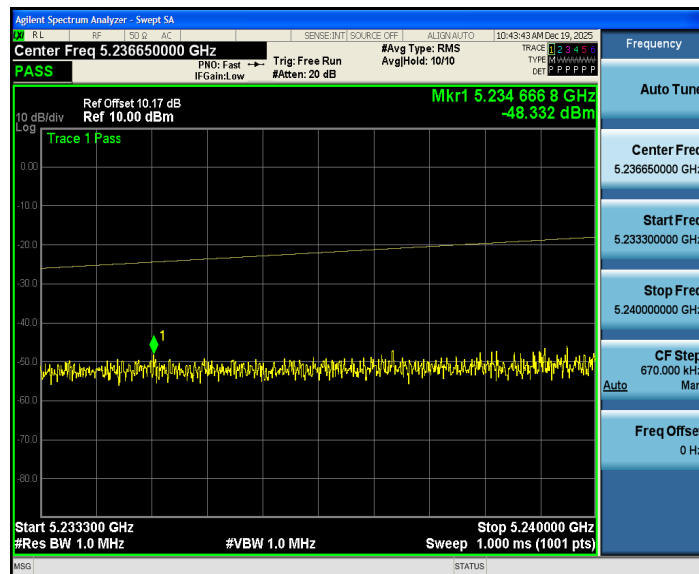


802.11n(HT20)

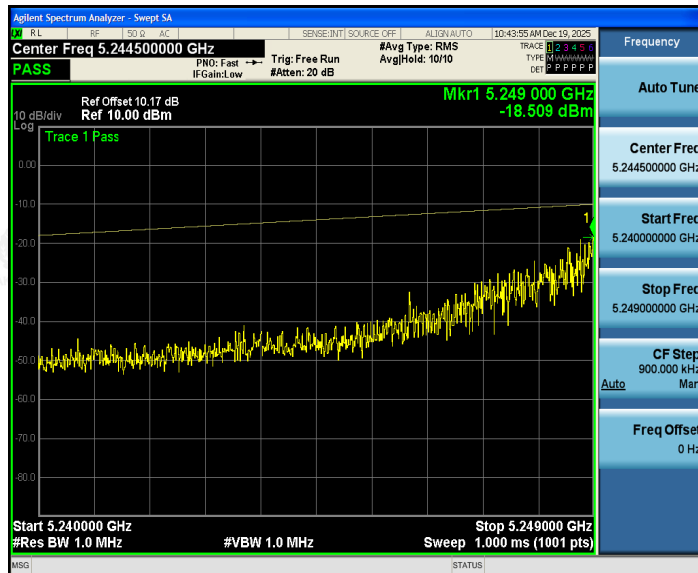
CH 52: 5260MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 5233.3 MHz)



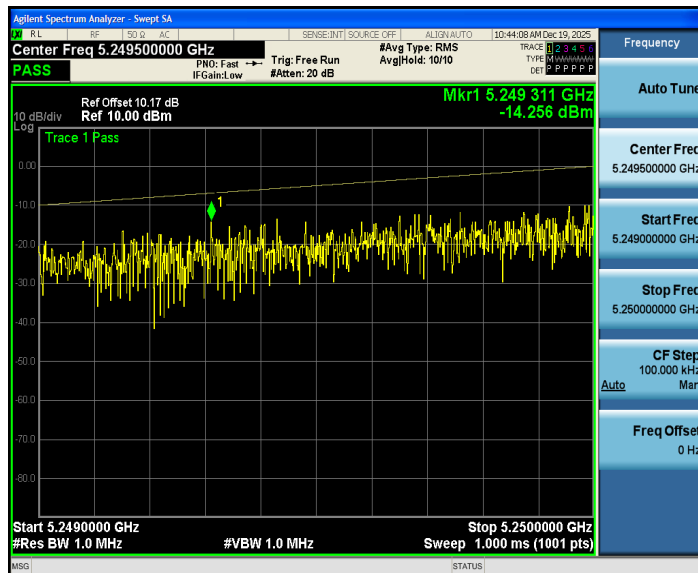
CH 52: 5260MHz - Frequency Band 2 (5233.3 MHz $\leq$ f $\leq$ 5240 MHz)



CH 52: 5260MHz - Frequency Band 3 (5240 MHz $\leq$ f $\leq$ 5249 MHz)



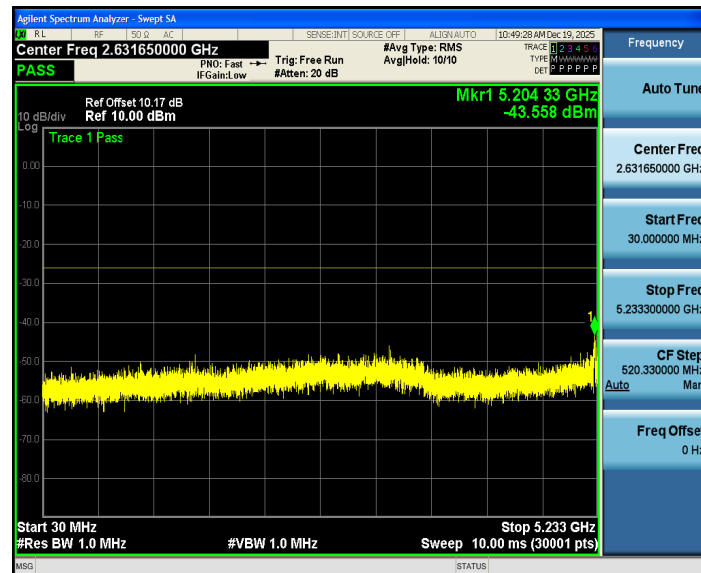
CH 52: 5260MHz - Frequency Band 4 (5249 MHz $\leq$ f $\leq$ 5250 MHz)



CH 52: 5260MHz - Frequency Band 5 (5350 MHz $\leq$ f $\leq$ 26000 MHz)



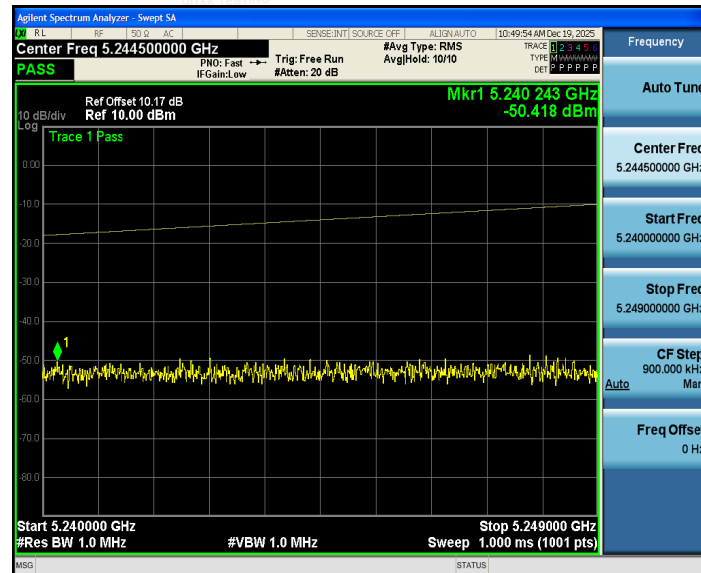
CH 56: 5280MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 5233.3 MHz)



CH 56: 5280MHz - Frequency Band 2 ($5233.3 \text{ MHz} \leq f \leq 5240 \text{ MHz}$)



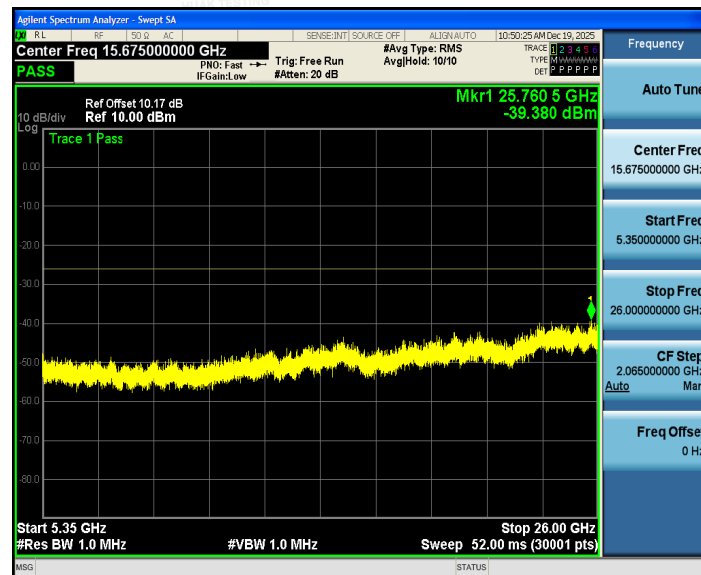
CH 56: 5280MHz - Frequency Band 3 ($5240 \text{ MHz} \leq f \leq 5249 \text{ MHz}$)



CH 56: 5280MHz - Frequency Band 4 (5249 MHz $\leq$ f $\leq$ 5250 MHz)



CH 56: 5280MHz - Frequency Band 5 (5350 MHz $\leq$ f $\leq$ 26000 MHz)



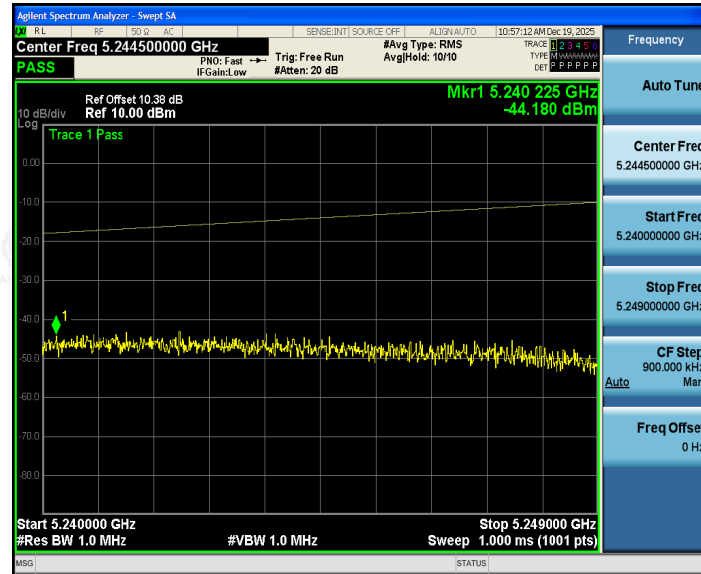
CH 64: 5320MHz - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 5233.3 \text{ MHz}$)



CH 64: 5320MHz - Frequency Band 2 ($5233.3 \text{ MHz} \leq f \leq 5240 \text{ MHz}$)



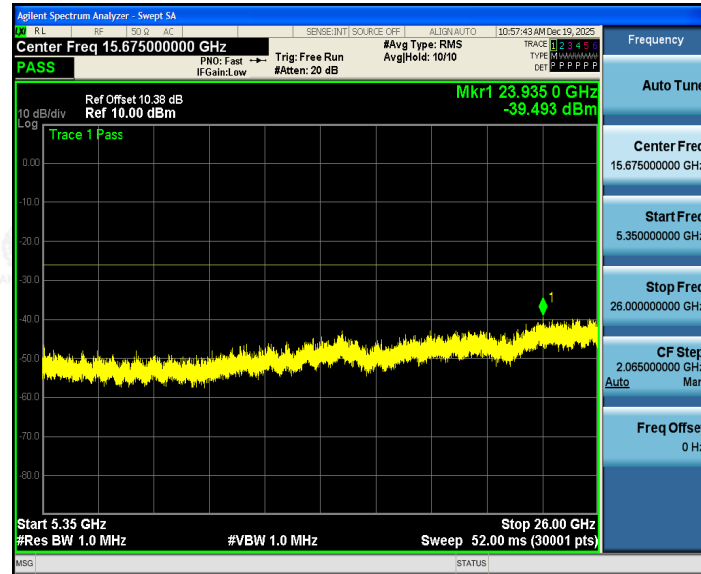
CH 64: 5320MHz - Frequency Band 3 (5240 MHz $\leq$ f $\leq$ 5249 MHz)



CH 64: 5320MHz - Frequency Band 4 (5249 MHz $\leq$ f $\leq$ 5250 MHz)



CH 64: 5320MHz - Frequency Band 5 (5350 MHz $\leq$ f $\leq$ 26000 MHz)

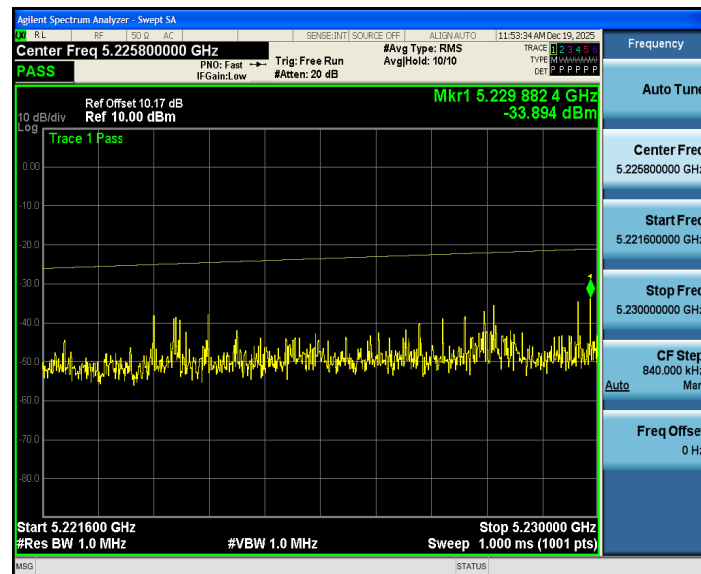


802.11n(HT40)

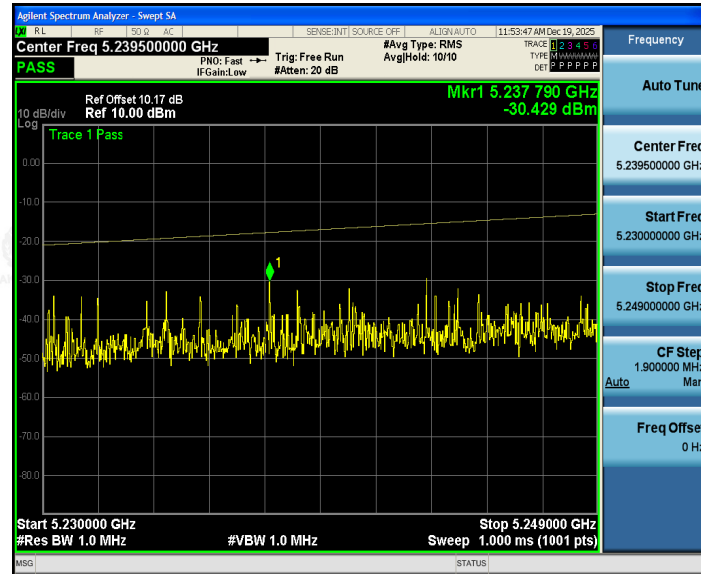
CH 54: 5270MHz - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 5221.6 MHz)



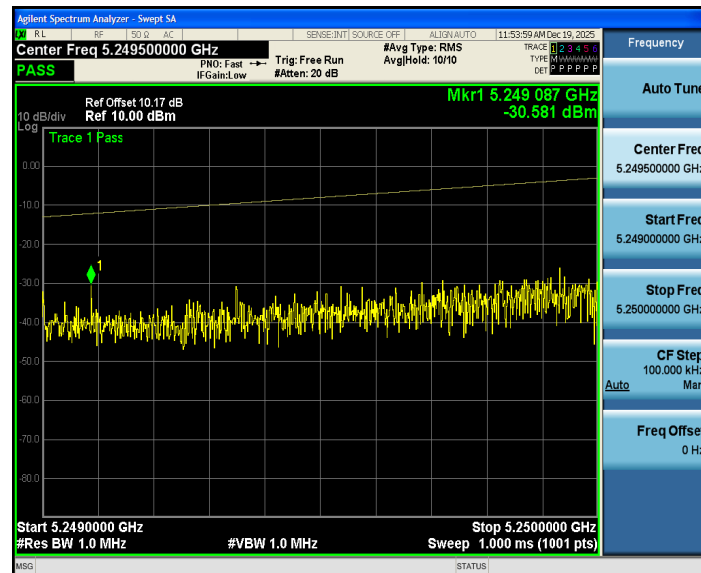
CH 54: 5270MHz - Frequency Band 2 (5221.6 MHz $\leq$ f $\leq$ 5230 MHz)



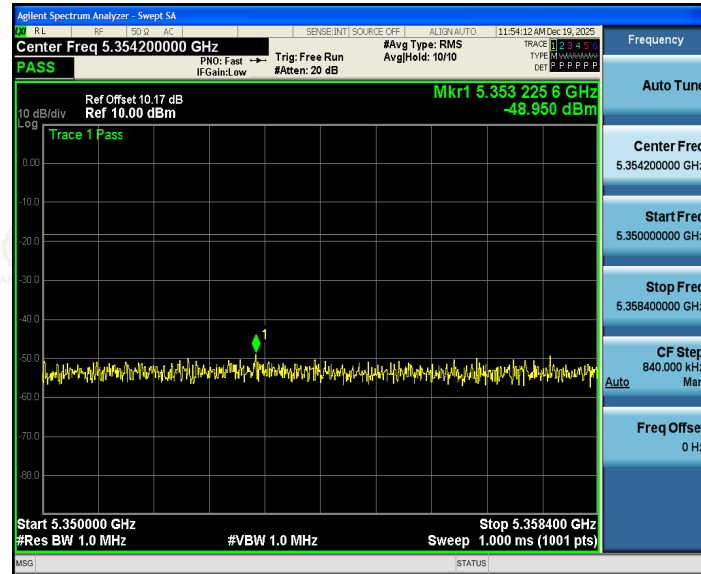
CH 54: 5270MHz - Frequency Band 3 ($5230 \text{ MHz} \leq f \leq 5249 \text{ MHz}$)



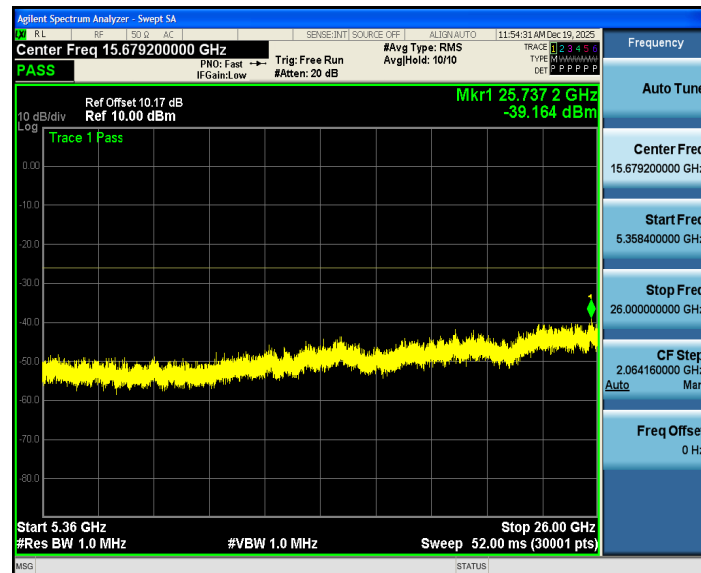
CH 54: 5270MHz - Frequency Band 4 ($5249 \text{ MHz} \leq f \leq 5250 \text{ MHz}$)



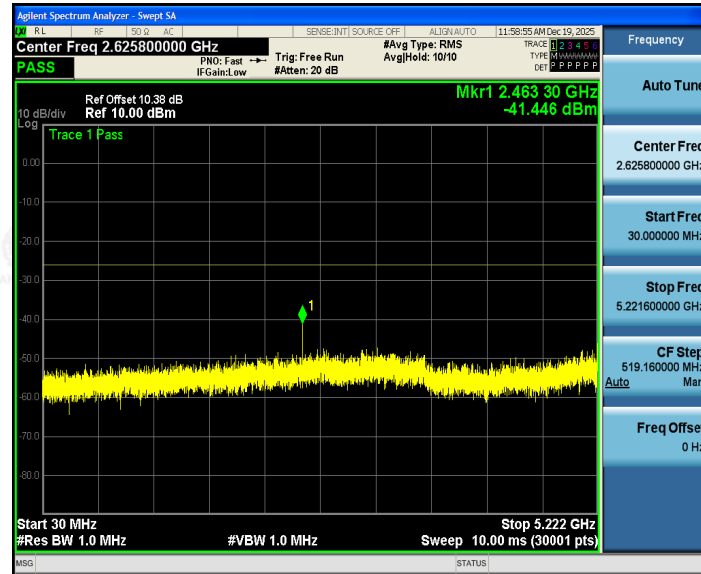
CH 54: 5270MHz - Frequency Band 5 (5350 MHz $\leq$ f $\leq$ 5348.4 MHz)



CH 54: 5270MHz - Frequency Band 6 (5348.4MHz $\leq$ f $\leq$ 26000 MHz)



CH 62: 5310MHz - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 5221.6 \text{ MHz}$)



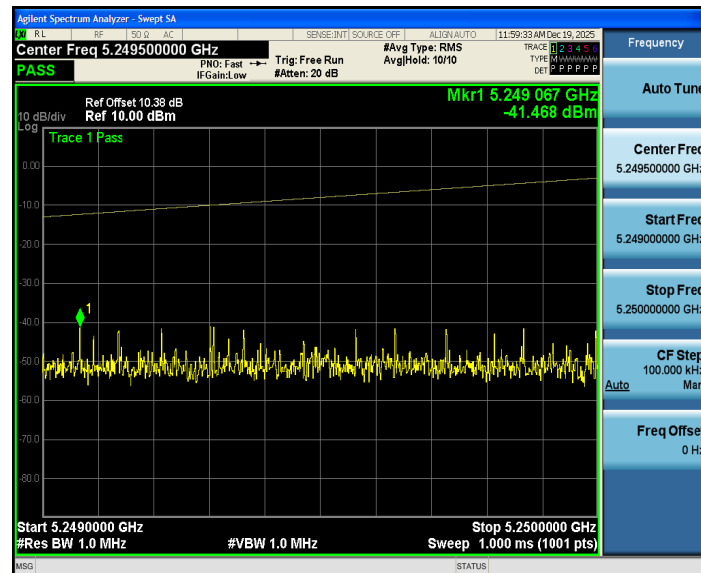
CH 62: 5310MHz - Frequency Band 2 ($5221.6 \text{ MHz} \leq f \leq 5230 \text{ MHz}$)



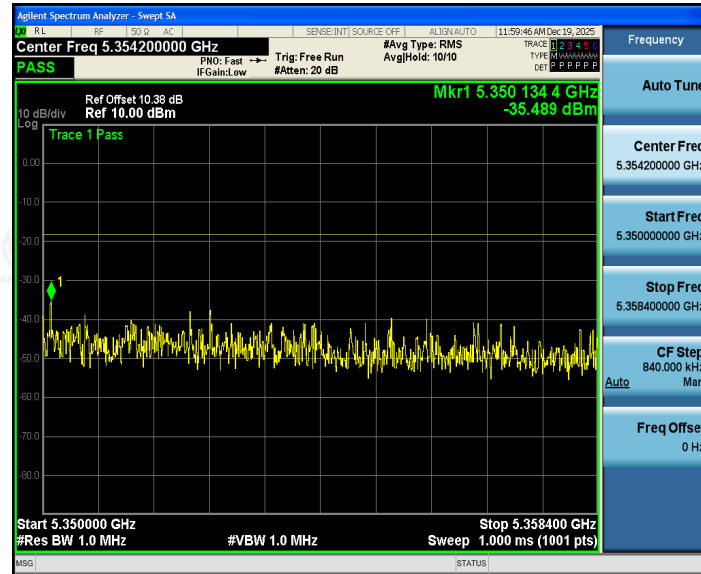
CH 62: 5310MHz - Frequency Band 3 (5230 MHz $\leq$ f $\leq$ 5249 MHz)



CH 62: 5310MHz - Frequency Band 4 (5249 MHz $\leq$ f $\leq$ 5250 MHz)



CH 62: 5310MHz - Frequency Band 5 (5350 MHz $\leq$ f $\leq$ 5348.4 MHz)



CH 62: 5310MHz - Frequency Band 6 (5348.4MHz $\leq$ f $\leq$ 26000 MHz)



4.5. Out-Band Emissions Power

4.5.1 Limit

Bandwidth(MHz)	Measured Frequency Range	Limit
20	5,140 - 5,233.3 MHz	2.5 μ W/MHz
	5,233.3 - 5,240 MHz	$10.0^{-1.8-(6/50)(f-20)}$ mW/MHz
	5,240 - 5,249 MHz	$10.0^{-1-(8/90)(f-11)}$ mW/MHz
	5,249 - 5250MHz	$10.0^{-1-(f-9)}$ mW/MHz
	5,350 - 5,360 MHz	2.5 μ W/MHz
40	5,100 - 5,221.6 MHz	2.5 μ W/MHz
	5,221.6 - 5,230 MHz	$10.0^{-(3/50)(f-40)-1.8+\log(1/2)}$ mW/MHz
	5,230 - 5,249 MHz	$10.0^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz
	5,249 - 5,250 MHz	$10.0^{-(f-20)+\log(1/2)}$ mW/MHz
	5,350 - 5,358.4 MHz	15 μ W/MHz
	5,358.4 - 5,400 MHz	2.5 μ W/MHz
80	5,020 - 5,203.3 MHz	2.5 μ W/MHz
	5,203.3 - 5,210 MHz	$10.0^{-(3/100)(f-80)-1.8+\log(1/4)}$ mW/MHz
	5,210 - 5,249 MHz	$10.0^{-(8/390)(f-41)-1+\log(1/4)}$ mW/MHz
	5,249 - 5,250 MHz	$10.0^{-(f-40)+\log(1/4)}$ mW/MHz
	5,350 - 5,376.8 MHz	15 μ W/MHz
	5,376.8 - 5,480 MHz	2.5 μ W/MHz

4.5.2 Measuring Instruments and Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB	1 MHz
VB	1 MHz
Detector	Sample
Trace	Max Hold
Sweep Time	Auto

4.5.3 Test Procedures

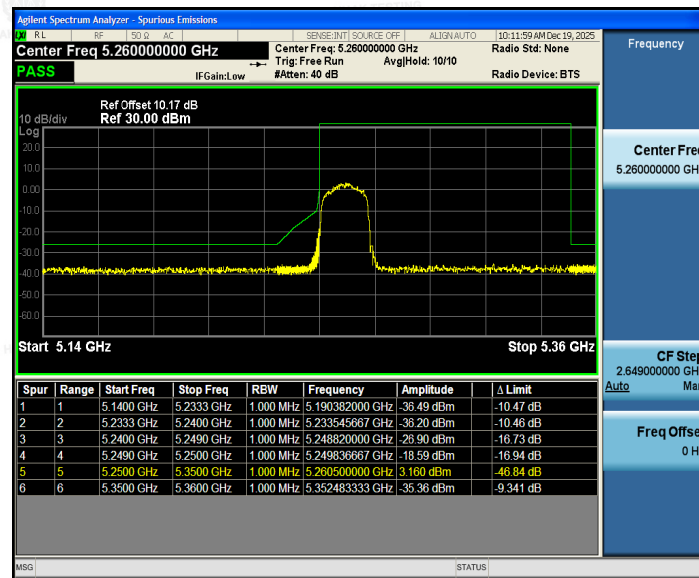
1. EUT have the continuous reception mode and fixed only one channelize.
2. Configure EUT and assistant system according clause 2.3 and 11.3
3. Set EUT work in test mode as described in clause 2.4
4. All spurious are measured from 5140MHz to 5360MHz by Sample mode.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

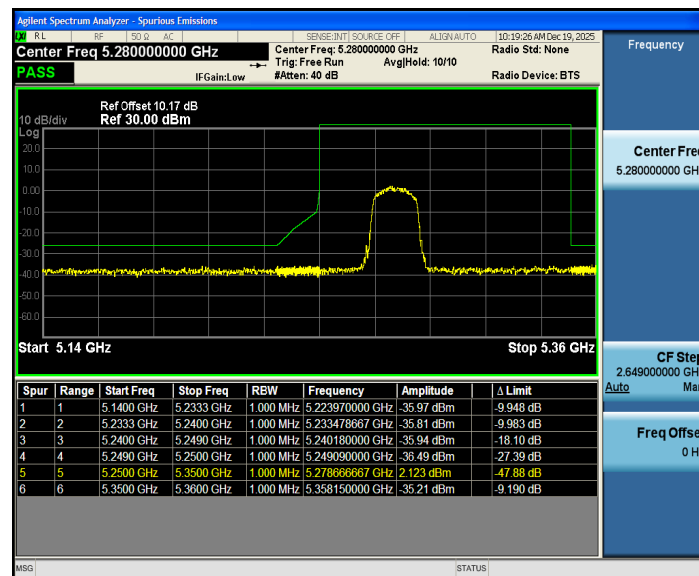
4.5.4 Test Result

EUT :	Pocket	Test Date:	Dec. 19, 2025
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage		

802.11a 5260MHz

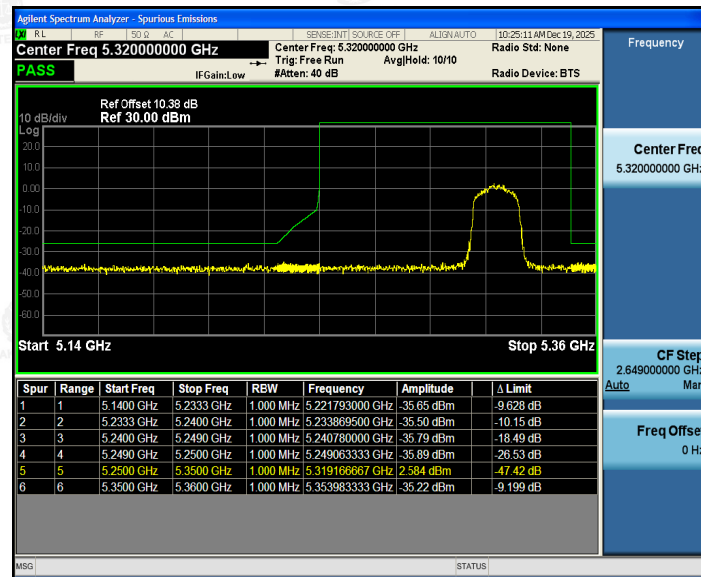


802.11a 5280MHz

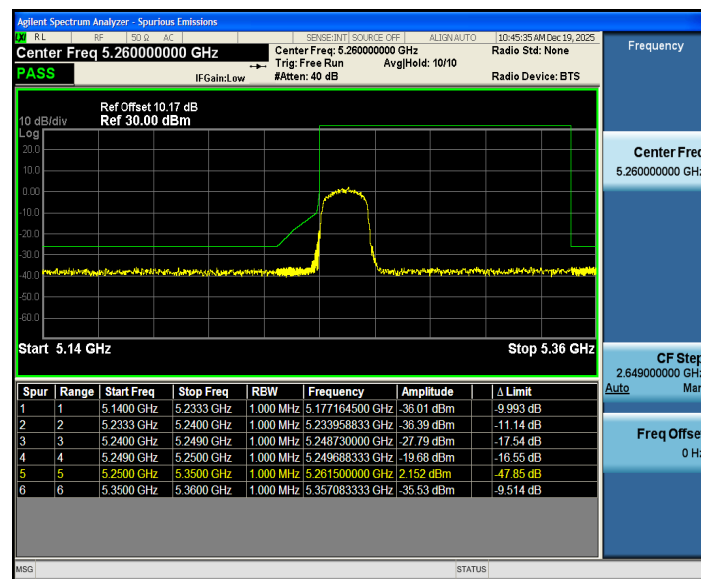


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

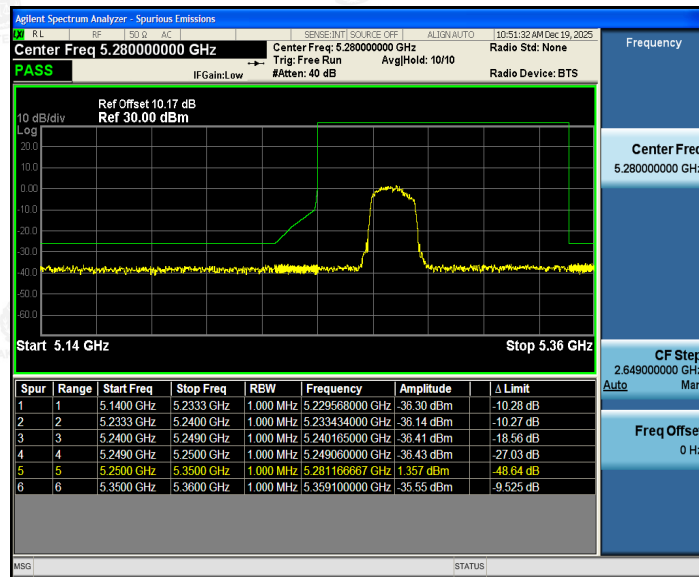
802.11a 5320MHz



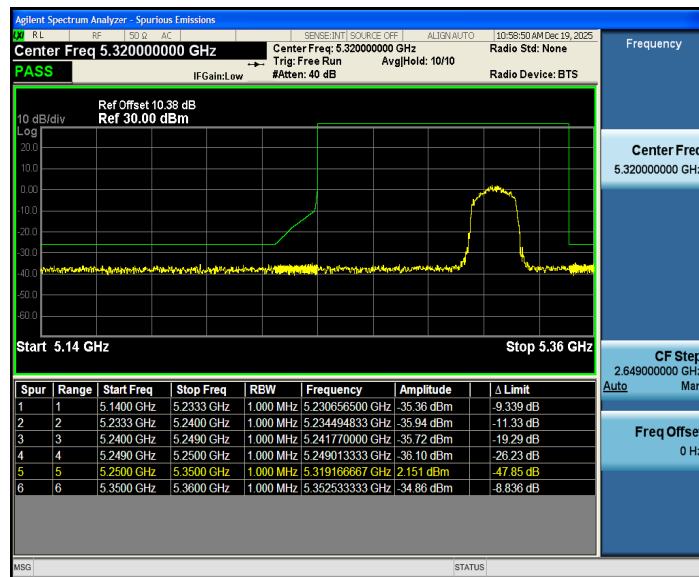
802.11n(HT20) 5260MHz



802.11n(HT20) 5280MHz



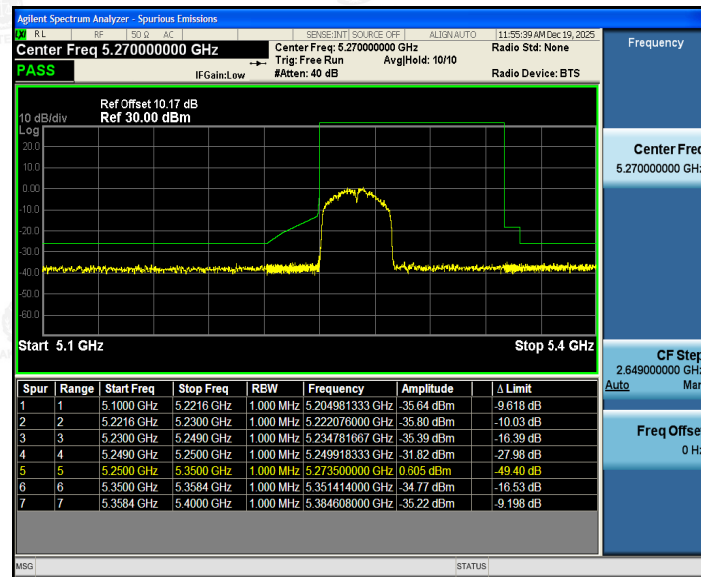
802.11n(HT20) 5320MHz



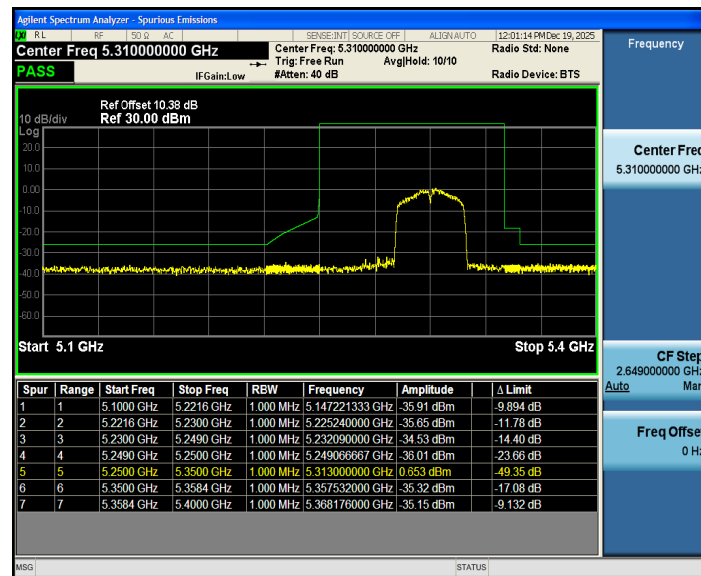
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

802.11n(HT40) 5270MHz



802.11n(HT40) 5310MHz



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

4.6. Limit of Secondary Radiated Emissions

4.6.1 Limit

Item	Limits	
RX Spurious Emission:	HT20	$\leq 4\text{nW}$ ($f < 1\text{GHz}$) $\leq 20\text{nW}$ ($1\text{GHz} \leq 26.5\text{GHz}$)
	HT40	$\leq 4\text{nW}$ ($f < 1\text{GHz}$) $\leq 20\text{nW}$ ($1\text{GHz} \leq 26.5\text{GHz}$)
	HT80	$\leq 4\text{nW}$ ($f < 1\text{GHz}$) $\leq 20\text{nW}$ ($1\text{GHz} \leq 26.5\text{GHz}$)

4.6.2 Measuring Instruments and Setting

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.6.3 Test Procedures

- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) /
AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep /
Detect mode: Positive peak / Trace mode: Max hold
- SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
- SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
- If power level of lower emissions are more than 1/10 of limit (0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

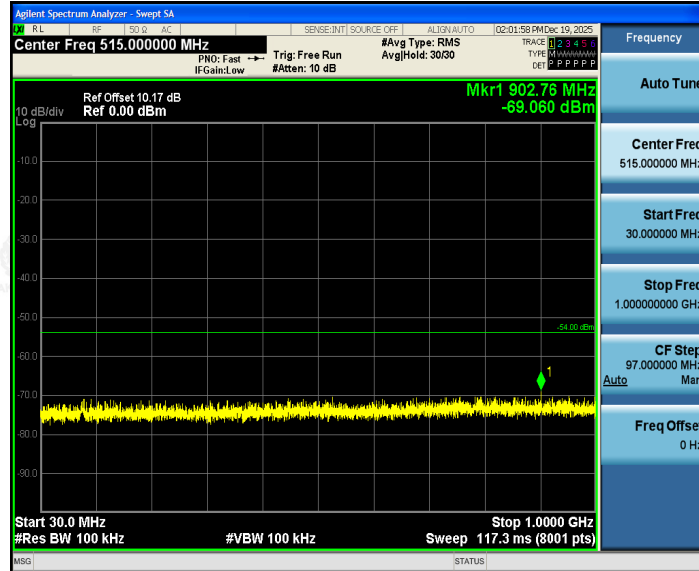
4.6.4 Test Result

EUT :	Pocket	Test Date:	Dec. 19, 2025
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage		

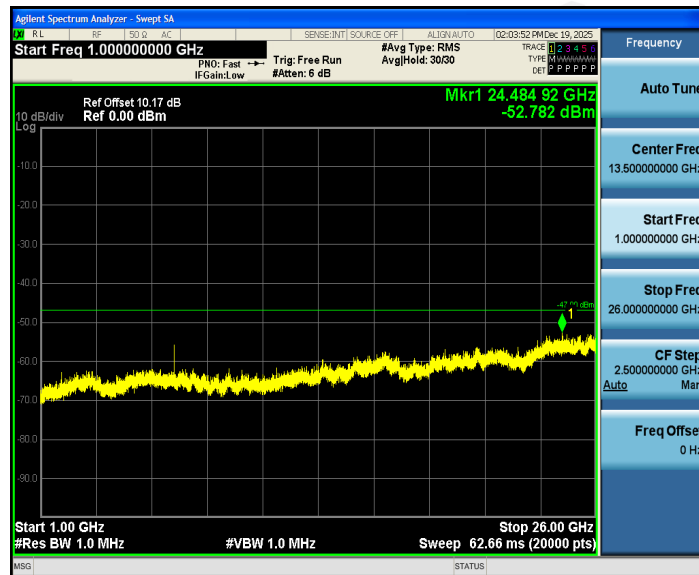
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	Max.Fre [MHz]	Max.Fre [dBm]	Max.Level [nW]	Limit [nW]	Verdict
802.11a	5260	30	1000	902.76	-69.06	0.1242	<4	PASS
802.11a	5260	1000	26000	24484.92	-52.78	5.2723	<20	PASS
802.11a	5280	30	1000	632.49	-68.80	0.1318	<4	PASS
802.11a	5280	1000	26000	25751.24	-53.04	4.9659	<20	PASS
802.11a	5320	30	1000	861.65	-69.36	0.1159	<4	PASS
802.11a	5320	1000	26000	25778.74	-52.55	5.5590	<20	PASS
802.11n(HT20)	5260	30	1000	102.27	-69.33	0.1167	<4	PASS
802.11n(HT20)	5260	1000	26000	25761.24	-52.39	5.7677	<20	PASS
802.11n(HT20)	5280	30	1000	775.57	-69.40	0.1148	<4	PASS
802.11n(HT20)	5280	1000	26000	25746.24	-52.17	6.0674	<20	PASS
802.11n(HT20)	5320	30	1000	872.69	-69.20	0.1202	<4	PASS
802.11n(HT20)	5320	1000	26000	23878.64	-52.43	5.7148	<20	PASS
802.11n(HT40)	5270	30	1000	756.77	-69.17	0.1211	<4	PASS
802.11n(HT40)	5270	1000	26000	25271.21	-53.10	4.8978	<20	PASS
802.11n(HT40)	5310	30	1000	103.11	-69.57	0.1104	<4	PASS
802.11n(HT40)	5310	1000	26000	24664.93	-52.52	5.5976	<20	PASS

802.11a 5260MHz

RX-Frequency Band 1 ($30 \text{ MHz} \leq f < 1000 \text{ MHz}$)

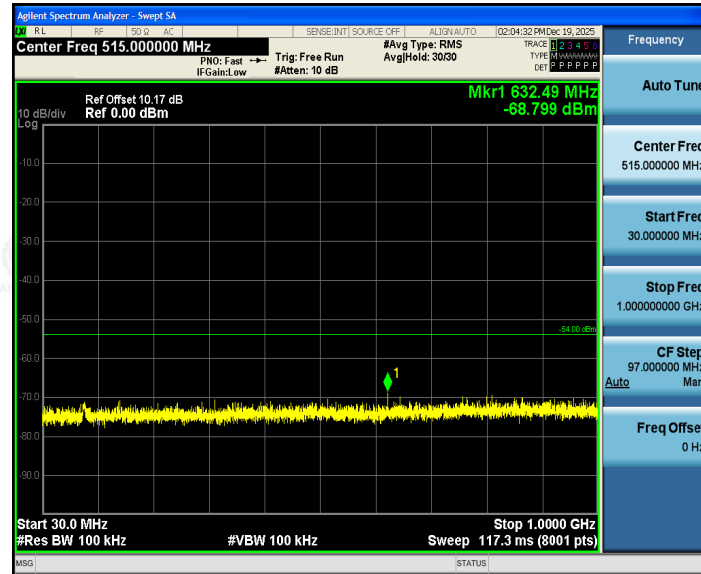


RX-Frequency Band 2 ($1000 \text{ MHz} \leq f < 26000 \text{ MHz}$)

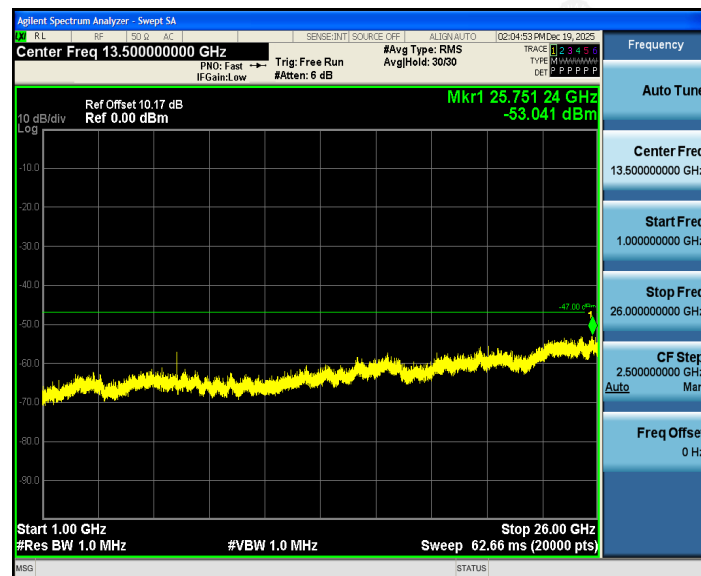


802.11a 5280MHz

RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)

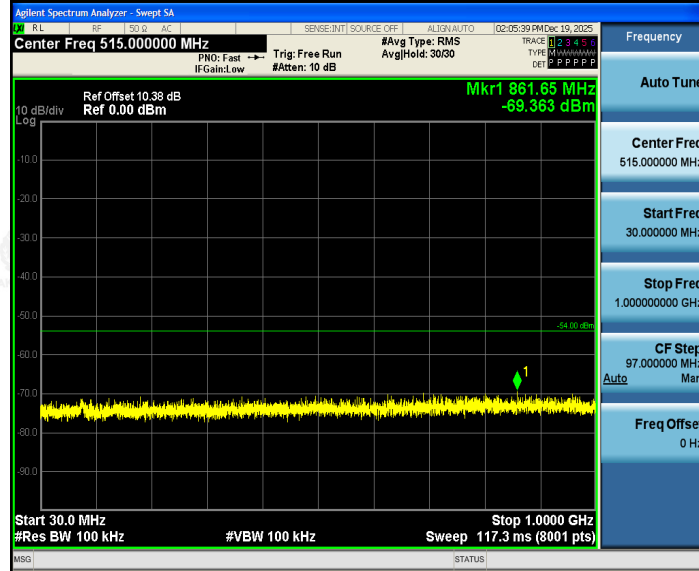


RX-Frequency Band 2 (1000 MHz $\leq f < 26000$ MHz)

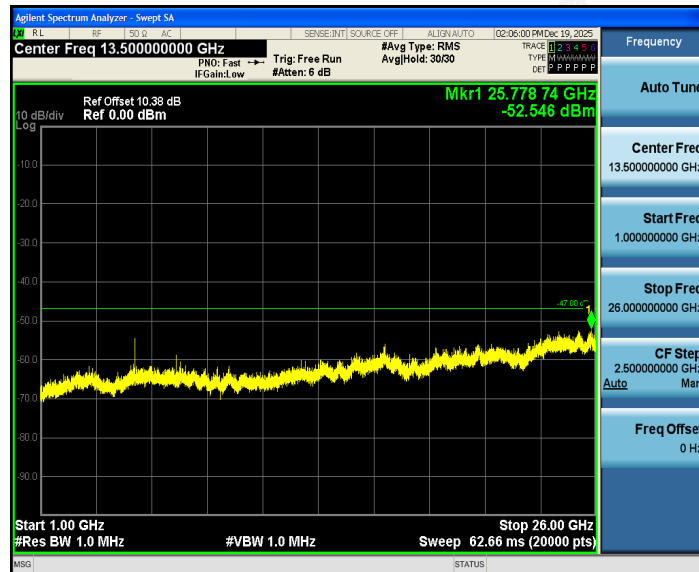


802.11a 5320MHz

RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)

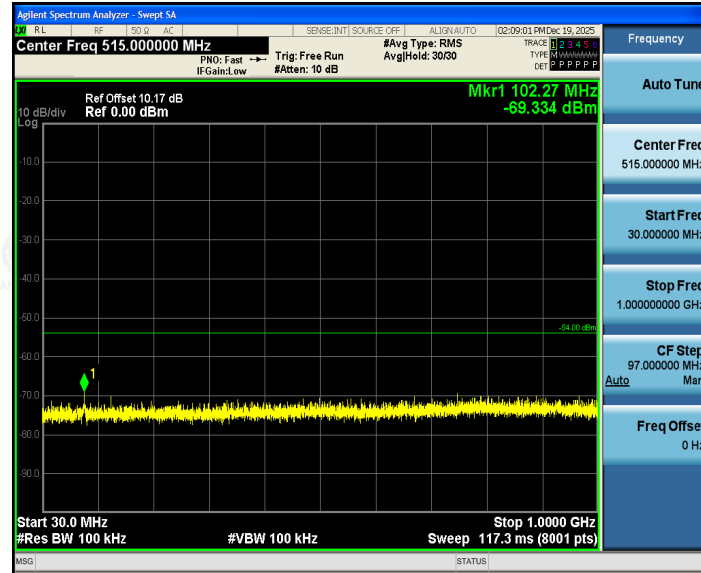


RX-Frequency Band 2 (1000 MHz $\leq f < 26000$ MHz)

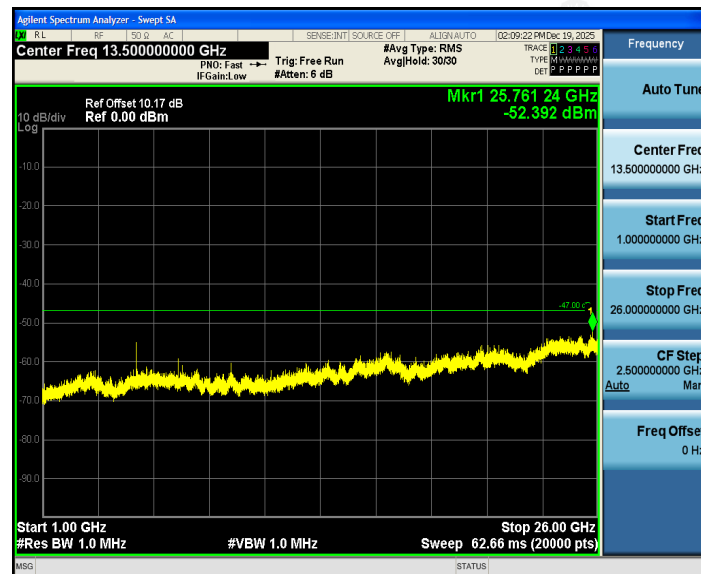


802.11n(HT20) 5260MHz

RX-Frequency Band 1 ($30 \text{ MHz} \leq f < 1000 \text{ MHz}$)

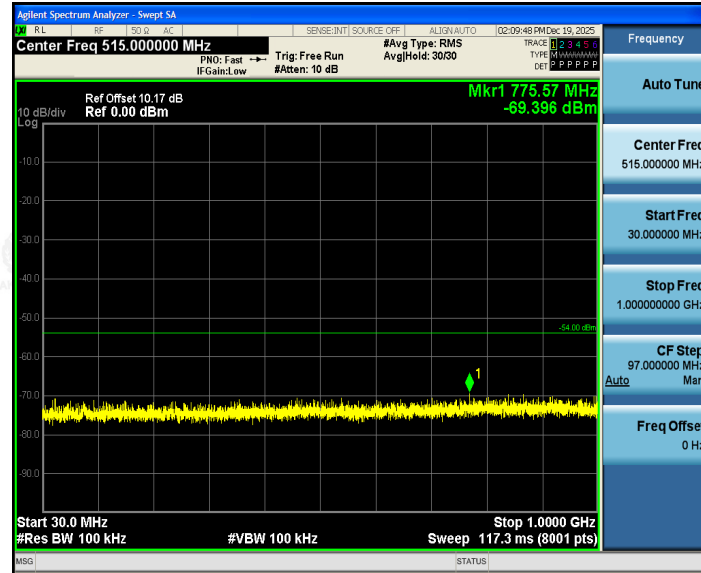


RX-Frequency Band 2 ($1000 \text{ MHz} \leq f < 26000 \text{ MHz}$)

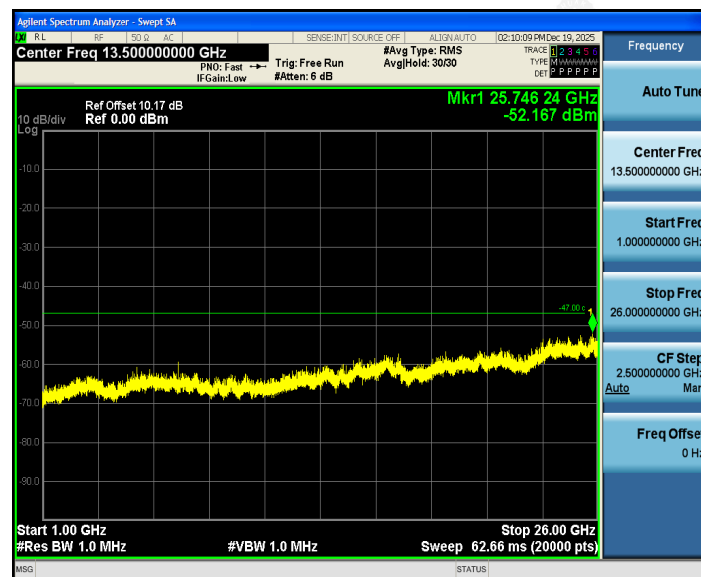


802.11n(HT20) 5280MHz

RX-Frequency Band 1 (30 MHz $\leq$ f < 1000 MHz)

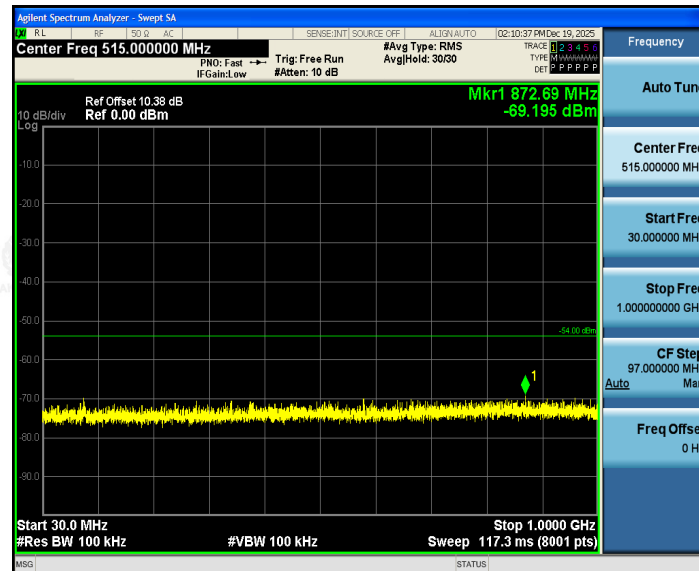


RX-Frequency Band 2 (1000 MHz $\leq$ f < 26000 MHz)

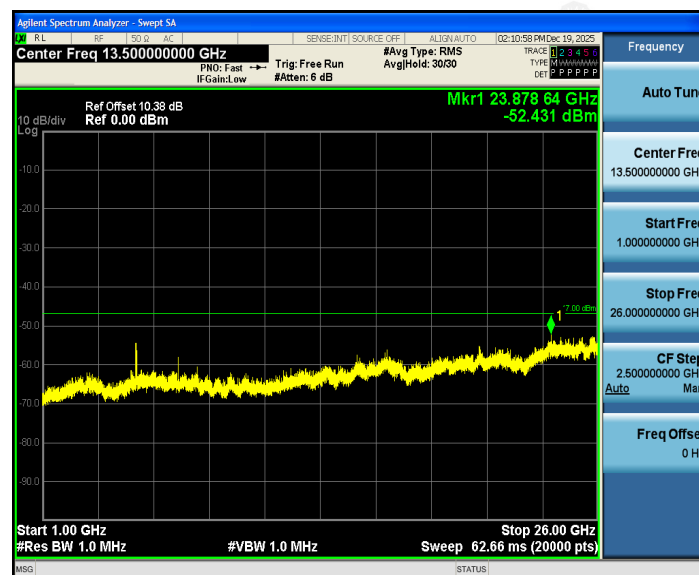


802.11n(HT20) 5320MHz

RX-Frequency Band 1 (30 MHz $\leq$ f < 1000 MHz)

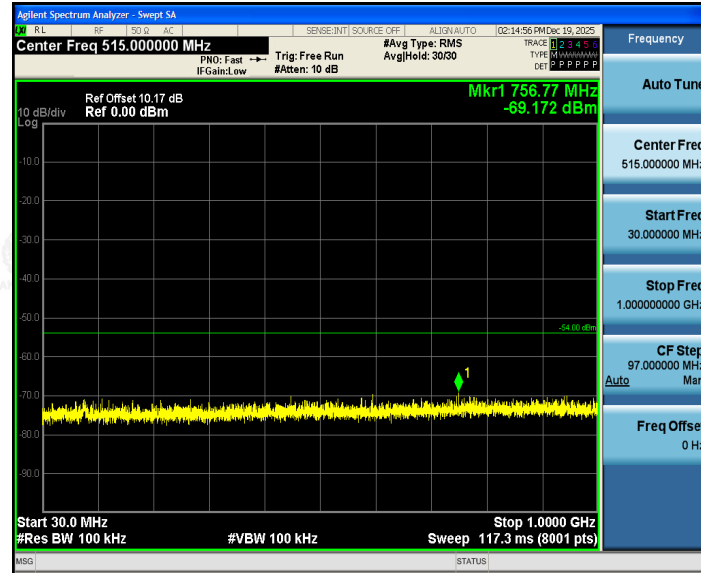


RX-Frequency Band 2 (1000 MHz $\leq$ f < 26000 MHz)

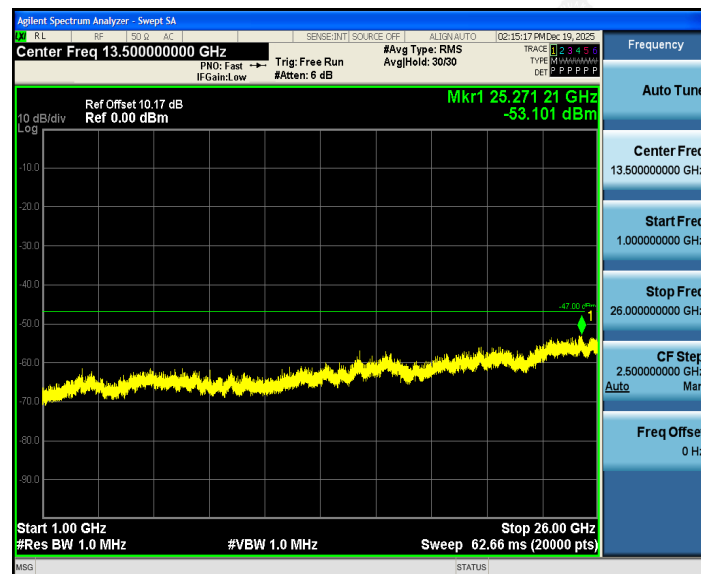


802.11n(HT40) 5270MHz

RX-Frequency Band 1 (30 MHz $\leq f < 1000$ MHz)

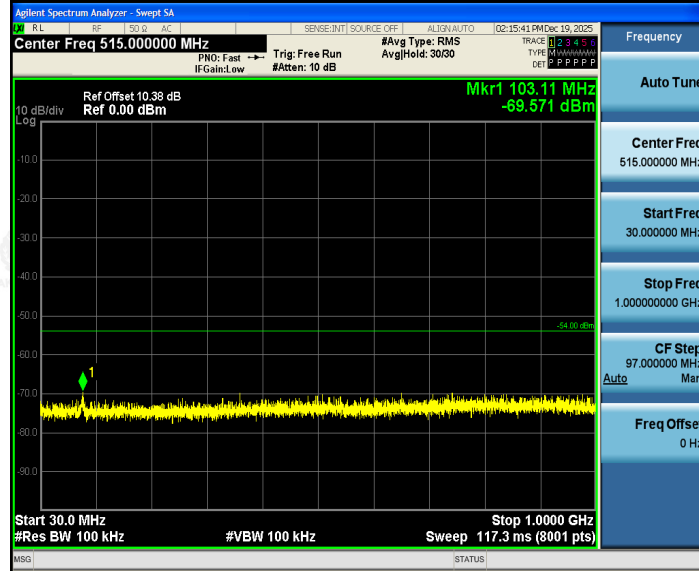


RX-Frequency Band 2 (1000 MHz $\leq f < 26000$ MHz)

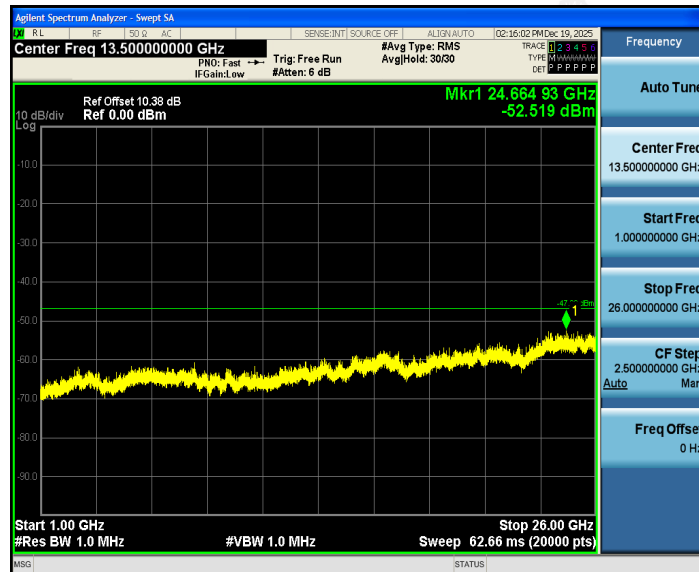


802.11n(HT40) 5310MHz

RX-Frequency Band 1 (30 MHz $\leq$ f < 1000 MHz)



RX-Frequency Band 2 (1000 MHz $\leq$ f < 26000 MHz)



4.7. Radio Interference Prevention Capability Measurement

4.7.1 Limit

Item	Limits
Identification code	≥ 48 bits

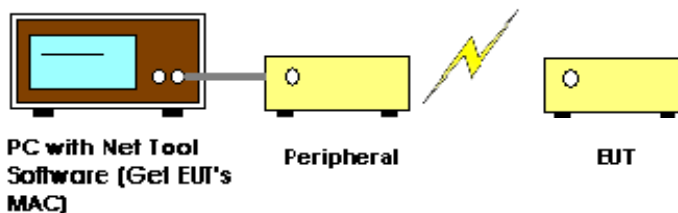
4.7.2 Measuring Id Code Software

Item	Limits
MAC IP List /49.20(3);j	MAC Scan

4.7.3 Test Procedures

- In the case that the EUT has the function of automatically transmitting the identification code:
 - Transmit the predetermined identification codes form EUT.
 - Check the transmitted identification codes with the demodulator.
- In the case of receiving the identification code:
 - Transmit the predetermined identification codes form the counterpart.
 - Check if communication is normal.
 - Transmit the signals other than predetermined ID codes form the counterpart.
 - check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

4.7.4 Test Setup Layout



4.7.5 Test Deviation

There is no deviation with the original standard.

4.7.6 EUT Operation During Test

The EUT was programmed to be in normal transmitting mode.

4.7.7 Test Result of Radio Interference Prevention Capability

EUT :	Pocket	Test Date:	Dec. 19, 2025
Temperature:	25°C	Tested by:	Len Liao
Humidity:	55 % RH		
Test result:	CONFORM (MAC IP LIST: FC19289D9733)		

Not: Represent the value of channel antenna meets the requirements.

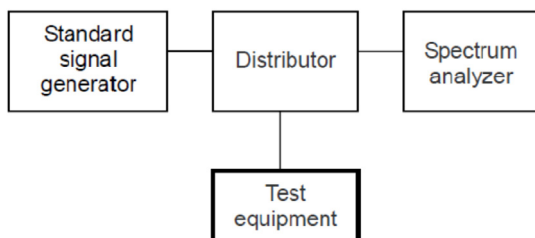
4.8. Carrier Sense Capability

4.8.1 Test Requirement

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

Shall not transmit radio wave when receiving over 100mV/m

Test Configuration: Test with test equipment only



4.8.2 Test Procedure

1) Test Conditions:

Spectrum Analyzer and signal generator is used for measurement.

2) EUT conditions:

Set the test equipment at the test frequency and the test spread code, and set it to the receiving mode, when using external test equipment, establish a connection

3) Set the standard signal generator as follows:

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

Modulation: No modulation (when the carrier sense function does not work by the the un-modulated subcarrier in center frequency, shift the frequency or modulate if needed.)

Output level: In the antenna input unit of a test equipment, field intensity is equivalent to the value which becomes 100mV/m.

4) Set the spectrum analyzer as follows:

Center frequency: Center frequency of the bandwidth used.

Sweep frequency band: 50MHz

Resolution bandwidth: Approximately 1 MHz

Video bandwidth: Approximately same as the resolution bandwidth

Y-axis scale: 10dB/Div

Trigger condition: Free-run

Detective mode: Positive peak

5) Measuring operation

(1) Test with test equipment only: Set the test equipment to the transmitting operation with the output of standard signal generator OFF, and confirm that it emits radio wave, using spectrum analyzer.

(2) Set the test equipment to the receiving mode.

(3) Set the test equipment to the transmitting operation with the output of standard signal generator ON, and confirm that it does not emit radio wave, using spectrum analyzer.

4.8.3 Test Result

EUT:	Pocket	Test Date:	Dec. 19, 2025
Temperature:	250C	Tested by:	Len Liao
Humidity:	55 % RH		
Test result:	The product shall not transmit radio wave when receiving over 100mV/m. The unit does meet the requirements		

4.9. Adjacent Channel Power

4.9.1 Limit

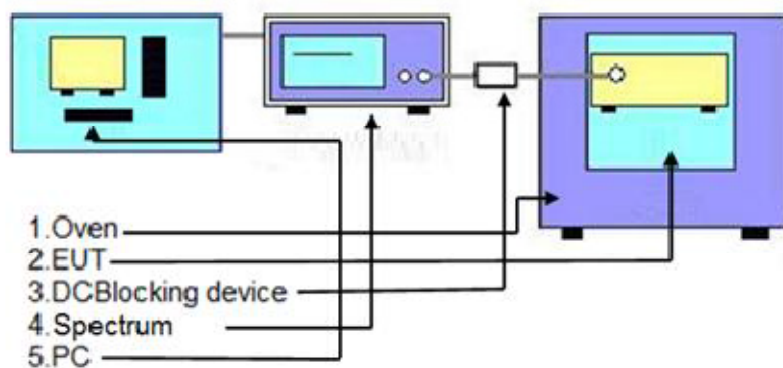
Item	Limits		
Adjacent Channel Power	HT20	$F_c \pm 20M$	$> -25dBc$
		$F_c \pm 40M$	$> -40dBc$
	HT40	$F_c \pm 40M$	$> -25dBc$
		$F_c \pm 80M$	$> -40dBc$
	HT80	$F_c \pm 80M$	$> -25dBc$

4.9.2 Measuring Instruments And Setting

TEST PROCEDURES

- Setting of SA is following as: 802.11a/n/ac/ax RB: 300KHz / VB:300KHz / SPAN: 120MHz / AT: 20dB Ref:10dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: detector mode Positive peak Trace mode: Max hold Sweep Time Auto
- Configure EUT and assistant system according clause 2.3 and 10.3
- Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT.
- Set EUT work in test mode as described in clause 2.4

4.9.3 Test Setup Layout



4.9.4 Test Deviation

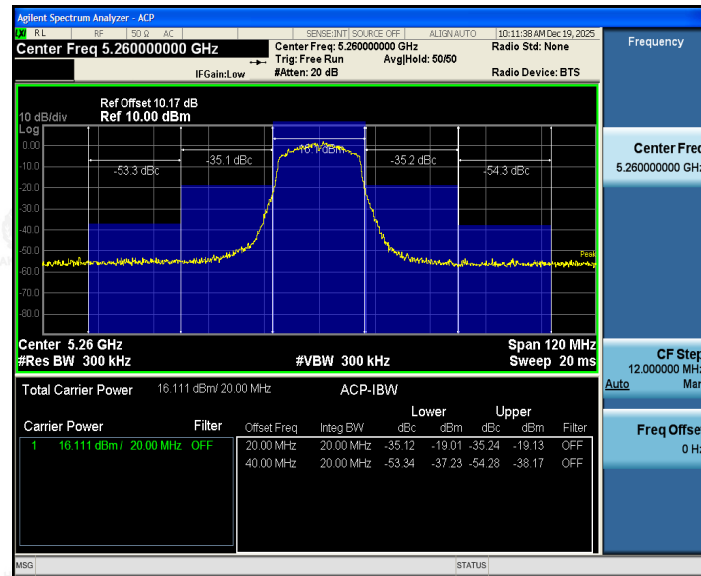
There is no deviation with the original standard.

4.9.5 EUT Operation During Test

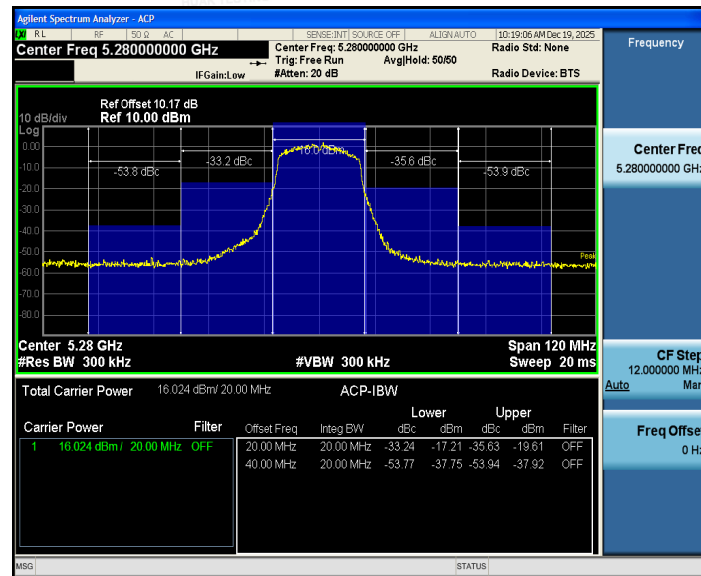
The EUT was programmed to be in continuously transmitting mode.

4.9.6 Test Result

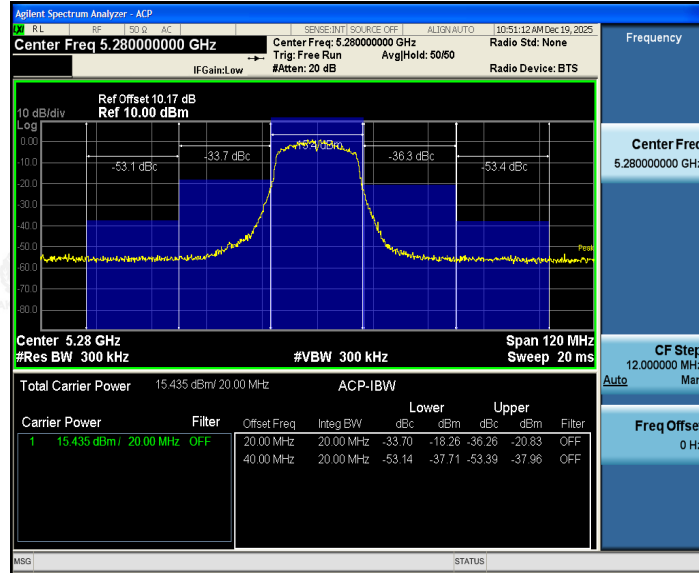
802.11a 5260MHz



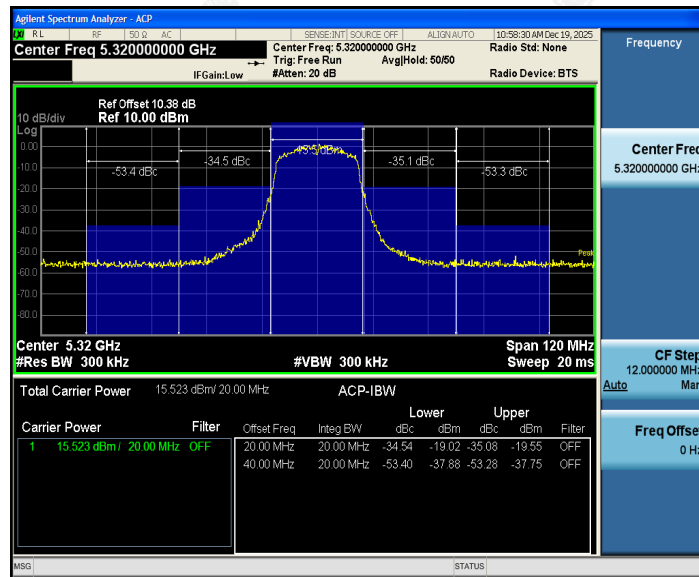
802.11a 5280MHz



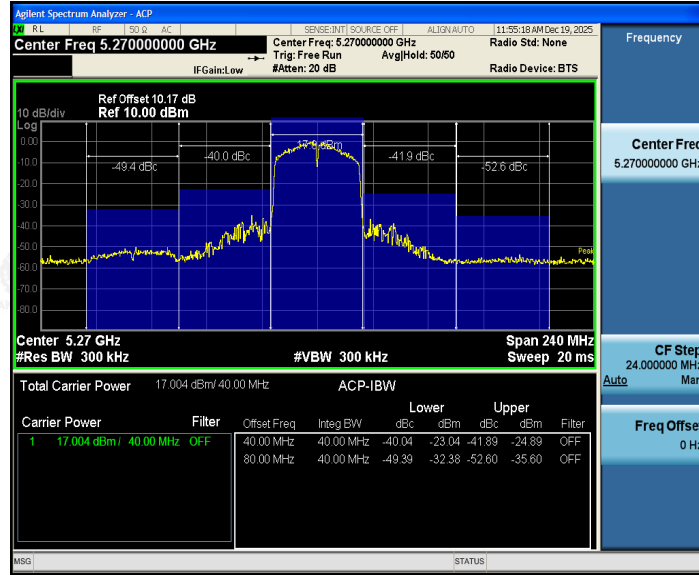
802.11n(HT20) 5280MHz



802.11n(HT20) 5320MHz



802.11n(HT40) 5270MHz



802.11n(HT40) 5310MHz



4.10. Burst Length

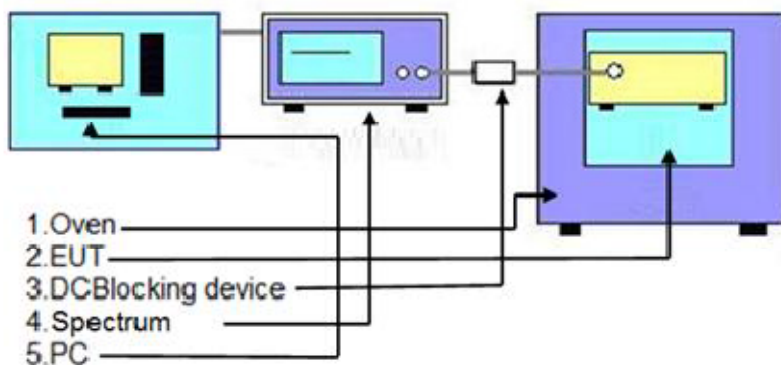
4.10.1 Limit

Item	Limits
Transmission Burst Length:	8ms or less

4.10.2 Measuring Instruments and Setting

1. Connected the EUT's Antenna port to the Spectrum Analyzer by suitable attenuator,
Setting of SA is following as: 802.11a/n/ac/ax RB: 8MHz / VB:8MHz / SPAN: 0Hz / AT: 40dB Ref:30dBm /
Sweep time: Auto / Sweep Mode: ≥ 8 ms / Detect mode: Positive peak Trace mode: Max hold
2. Configure EUT and assistant system according clause 2.3 and 13.3
3. Set EUT work in test mode as described in clause 2.4

4.10.3 Test Setup Layout

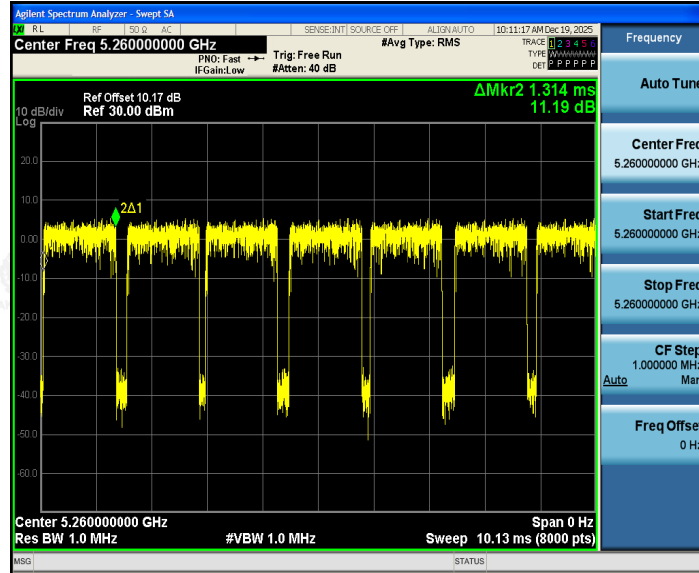


4.10.4 EUT Operation During Test

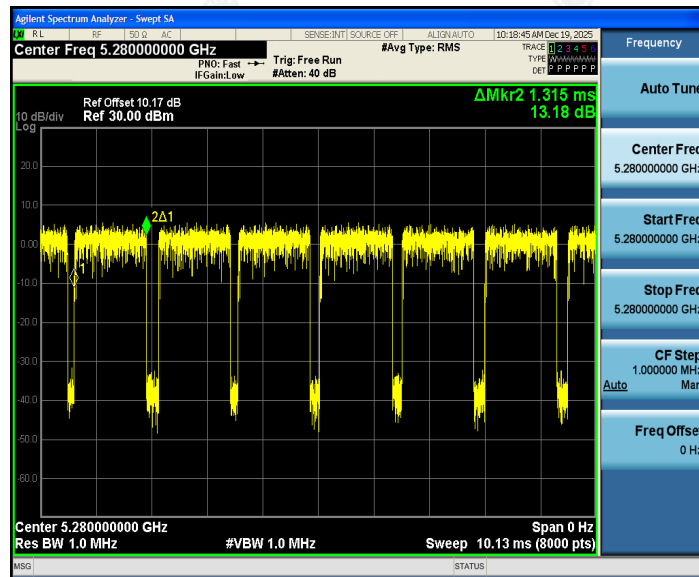
The EUT was programmed to be in continuously transmitting mode.

Test Mode	CH	Result(ms)	Limit(ms)	Verdict
802.11a	CH 52	1.314	<8	PASS
802.11a	CH 56	1.315	<8	PASS
802.11a	CH 64	1.186	<8	PASS
802.11n(HT20)	CH 52	1.186	<8	PASS
802.11n(HT20)	CH 56	1.186	<8	PASS
802.11n(HT20)	CH 64	1.186	<8	PASS
802.11n(HT40)	CH 54	0.6511	<8	PASS
802.11n(HT40)	CH 62	0.6511	<8	PASS

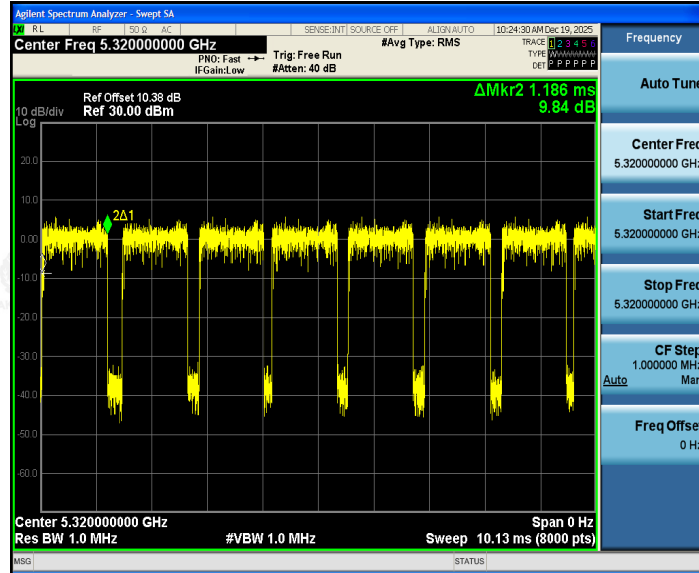
802.11a 5260MHz



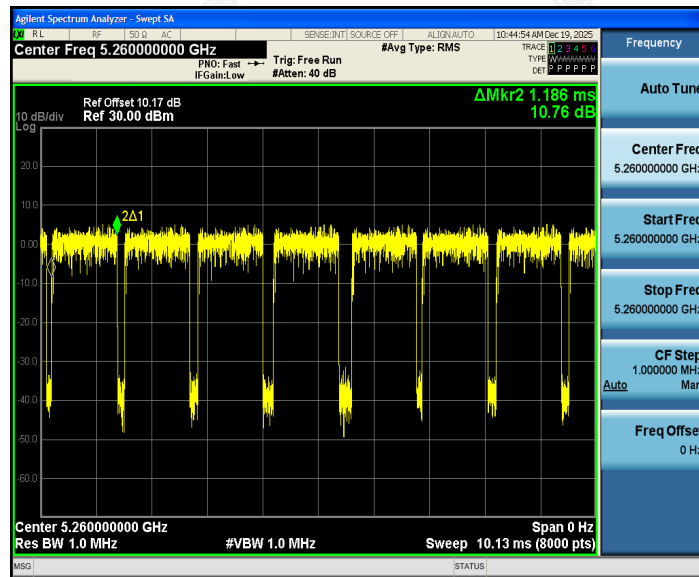
802.11a 5280MHz



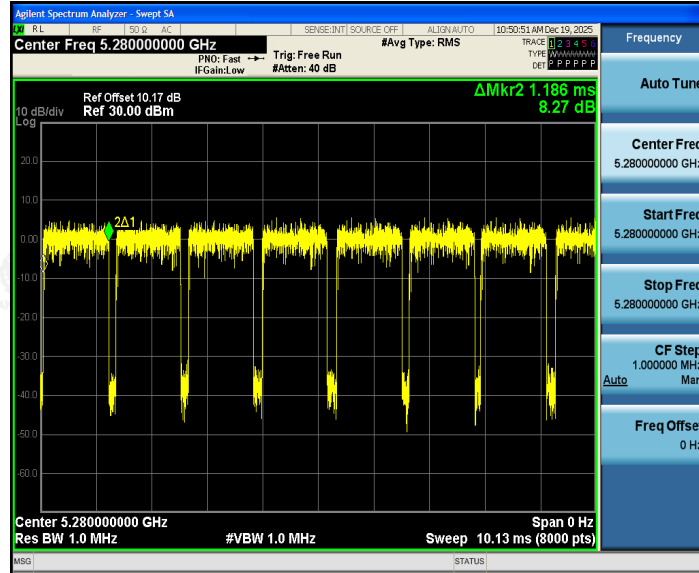
802.11a 5320MHz



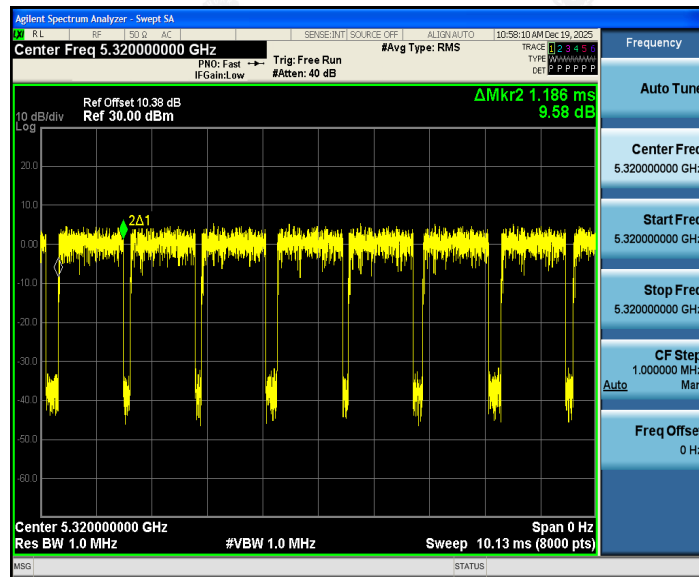
802.11n(HT20) 5260MHz



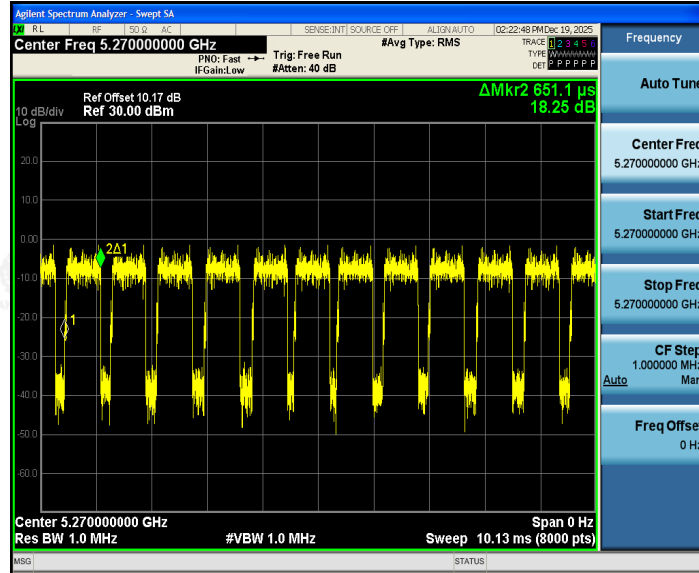
802.11n(HT20) 5280MHz



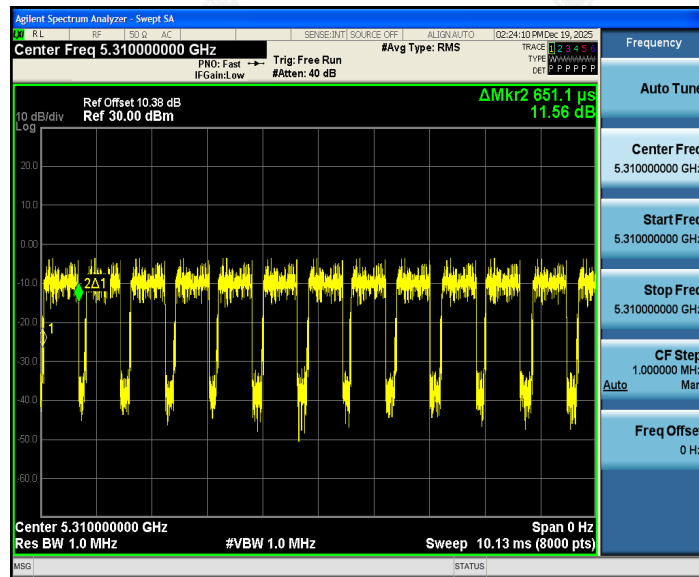
802.11n(HT20) 5320MHz



802.11n(HT40) 5270MHz



802.11n(HT40) 5310MHz



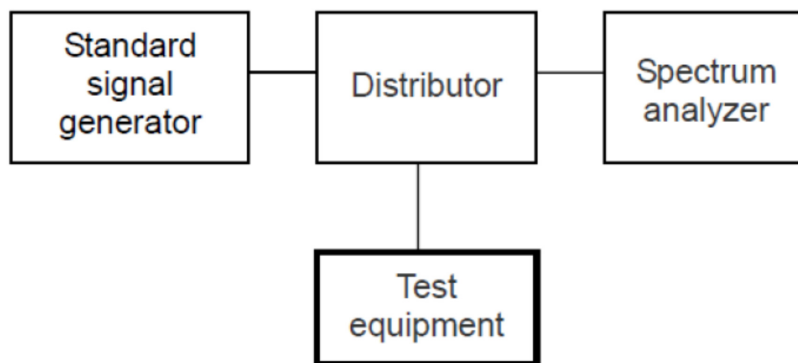
4.11. Interference Prevention Function

4.11.1 Test Requirement

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

Shall not transmit radio wave when receiving over 100mV/m

Test Configuration: **Test with test equipment only**



4.11.2 Test Procedure

1) Test Conditions:

Spectrum Analyzer and signal generator is used for measurement.

2) EUT conditions:

Set the test equipment at the test frequency and the test spread code, and set it to the receiving mode, when using external test equipment, establish a connection

3) Set the standard signal generator as follows:

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

Modulation: No modulation (when the carrier sense function does not work by the the un-modulated subcarrier in center frequency, shift the frequency or modulate if needed.)

Output level: In the antenna input unit of a test equipment, field intensity is equivalent to the value which becomes 100mV/m.

4) Set the spectrum analyzer as follows:

Center frequency: Center frequency of the bandwidth used.

Sweep frequency band: 50MHz

Resolution bandwidth: Approximately 1 MHz

Video bandwidth: Approximately same as the resolution bandwidth

Y-axis scale: 10dB/Div

Trigger condition: Free-run

Detective mode: Positive peak

5) Measuring operation

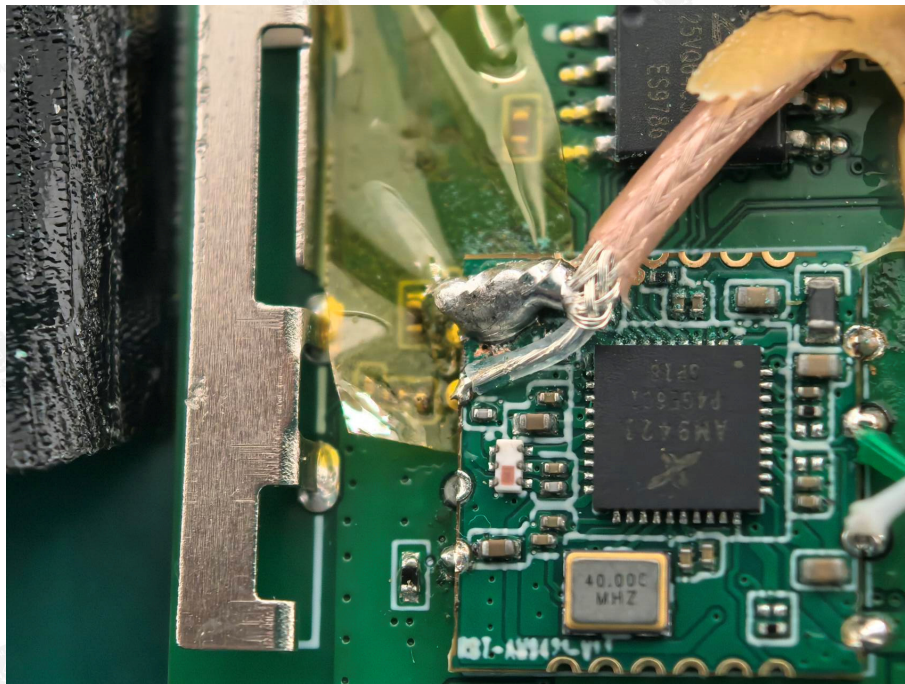
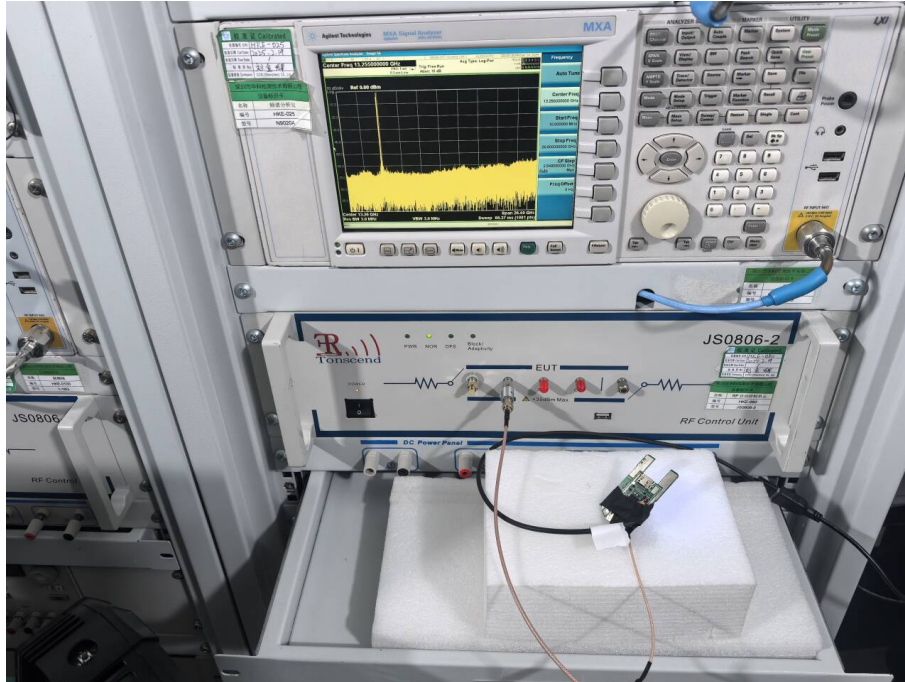
- (1) Test with test equipment only: Set the test equipment to the transmitting operation with the output of standard signal generator OFF, and confirm that it emits radio wave, using spectrum analyzer.
- (2) Set the test equipment to the receiving mode.
- (3) Set the test equipment to the transmitting operation with the output of standard signal generator ON, and confirm that it does not emit radio wave, using spectrum analyzer.

4.11.3 Test Result

The product shall not transmit radio wave when receiving over 100mV/m. The unit does meet the requirements

5. EUT Test Photo

Measurement Photos



-----End of report-----

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China