



FCC PART 15 TEST REPORT No. I22Z62328-IOT04

for

HONOR Device Co., Ltd.

Smart Phone

RBN-NX1

With

FCC ID: 2AYGCRBN-NX1

Hardware Version: HN2VNEM

Software Version: 6.1.0.9(C900E9R1P1)

Issued Date: 2023-01-03

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn



REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z62328-IOT04	Rev.0	1st edition	2023-01-03

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1. TEST LABORATORY

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Conducted testing Location: CTTL(Huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

1.3. Testing Environment

Normal Temperature: 15-35°C

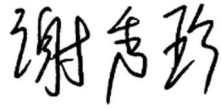
Relative Humidity: 20-75%

1.4. Project date

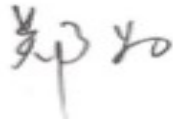
Testing Start Date: 2022-11-28

Testing End Date: 2023-01-03

1.5. Signature



Xie Xiuzhen
(Prepared this test report)



Zheng Wei
(Reviewed this test report)



Pang Shuai
(Approved this test report)



2. CLIENT INFORMATION

2.1 Applicant Information

Company Name: HONOR Device Co., Ltd.
Suite 3401,Unit A,Building 6,Shum Yip Sky Park,No.8089,Hongli
Address: West Road,Xiangmihu Street,Futian District,Shenzhen,Guangdong
518040,People's Republic of China
City: Shenzhen
Country: China

2.2 Manufacturer Information

Company Name: HONOR Device Co., Ltd.
Suite 3401,Unit A,Building 6,Shum Yip Sky Park,No.8089,Hongli
Address: West Road,Xiangmihu Street,Futian District,Shenzhen,Guangdong
518040,People's Republic of China
City: Shenzhen
Country: China

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)

3.1. About EUT

Description	Smart Phone
Model name	RBN-NX1
FCC ID	2AYGCRBN-NX1
WLAN Frequency Band	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Voltage	3.87V

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
UT22a	868648060013866/ 868648060047906	HN2VNEM	6.1.0.9(C900E9R1P1)

*EUT ID: is used to identify the test sample in the lab internally.
UT22a is used for Conduction test.

3.3. General Description

The Equipment under Test (EUT) is a model of Smart Phone with integrated antenna and inbuilt battery.

It has Bluetooth (EDR)function.

It consists of normal options: travel charger, USB cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

3.4. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor k=2.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

4. REFERENCE DOCUMENTS

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

FCC Part15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	2021
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	/	P
Peak Power Spectral Density	15.407	/	P
Occupied 26dB Bandwidth	15.403	/	P
Frequency Stability	15.407	/	P
99% Occupied bandwidth	/	/	P

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

CTTL has evaluated the test cases requested by the client/manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.87V
Humidity	44%

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2023-05-15
2	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2023-01-02
3	Shielding Room	S81	/	ETS-Lindgren	/	/

8. Measurement Uncertainty

8.1 Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2 Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3 Occupied Channel Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4 Spurious Emissions

Conducted (k=1.96)

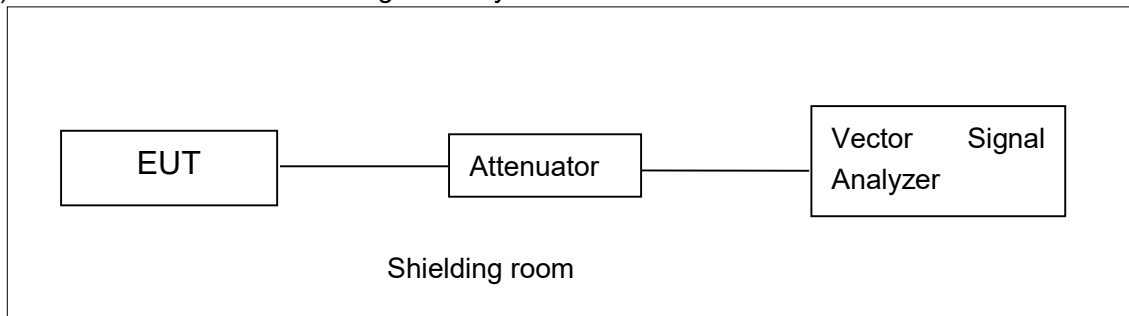
Frequency Range	Uncertainty(dB)
$30\text{MHz} \leq f \leq 2\text{GHz}$	1.22
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	1.22
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.22
$8\text{GHz} \leq f \leq 12.75\text{GHz}$	1.51
$12.75\text{GHz} \leq f \leq 26\text{GHz}$	1.51
$26\text{GHz} \leq f \leq 40\text{GHz}$	1.59

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer



A.2. Maximum output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	24dBm
	5250MHz~5350MHz	24dBm or 11+10logB
	5470MHz~5725MHz	24dBm or 11+10logB

Limit use the less value, and B is the 26dB bandwidth.

The measurement method SA-2 is made according to KDB 789033

Antenna Gain: -1.0 dBi

Measurement Results:

802.11a mode

Mode	Frequency	Test Result (dBm)							
		Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
802.11a	5180MHz	12.55	/	/	/	/	/	/	/
	5200MHz	14.24	/	/	/	/	/	/	/
	5240MHz	14.92	/	/	/	/	/	/	/
	5260MHz	14.99	/	/	/	/	/	/	/
	5280MHz	15.36	/	/	/	/	/	/	/
	5320MHz	14.81	/	/	/	/	/	/	/
	5500MHz	8.78	/	/	/	/	/	/	/
	5580MHz	15.88	/	/	/	/	/	/	/
	5700MHz	7.18	/	/	/	/	/	/	/
	5720MHz	16.04	/	/	/	/	/	/	/

The data rate 6Mbps is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT20)	5180MHz	12.39	/	/	/	/	/	/	/
	5200MHz	14.06	/	/	/	/	/	/	/
	5240MHz	14.74	/	/	/	/	/	/	/
	5260MHz	14.83	/	/	/	/	/	/	/
	5280MHz	15.21	/	/	/	/	/	/	/
	5320MHz	14.64	/	/	/	/	/	/	/
	5500MHz	8.58	/	/	/	/	/	/	/
	5580MHz	15.72	/	/	/	/	/	/	/
	5700MHz	6.36	/	/	/	/	/	/	/
	5720MHz	15.56	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT20 mode

Mode	Frequency	Test Result (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
802.11ac (VHT20)	5180MHz	12.33	/	/	/	/	/	/	/	/
	5200MHz	14.07	/	/	/	/	/	/	/	/
	5240MHz	14.67	/	/	/	/	/	/	/	/
	5260MHz	14.80	/	/	/	/	/	/	/	/
	5280MHz	15.19	/	/	/	/	/	/	/	/
	5320MHz	14.60	/	/	/	/	/	/	/	/
	5500MHz	7.74	/	/	/	/	/	/	/	/
	5580MHz	15.72	/	/	/	/	/	/	/	/
	5700MHz	7.06	/	/	/	/	/	/	/	/
	5720MHz	15.91	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT40)	5190MHz	10.42	/	/	/	/	/	/	/
	5230MHz	14.45	/	/	/	/	/	/	/
	5270MHz	15.13	/	/	/	/	/	/	/
	5310MHz	7.72	/	/	/	/	/	/	/
	5510MHz	11.28	/	/	/	/	/	/	/
	5550MHz	16.04	/	/	/	/	/	/	/
	5670MHz	11.48	/	/	/	/	/	/	/
	5710MHz	16.14	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT40 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (VHT40)	5190MHz	10.44	/	/	/	/	/	/	/	/	/
	5230MHz	14.47	/	/	/	/	/	/	/	/	/
	5270MHz	15.11	/	/	/	/	/	/	/	/	/
	5310MHz	7.72	/	/	/	/	/	/	/	/	/

	5510MHz	11.22	/	/	/	/	/	/	/	/	/
	5550MHz	16.13	/	/	/	/	/	/	/	/	/
	5670MHz	11.47	/	/	/	/	/	/	/	/	/
	5710MHz	16.14	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT80 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (VHT80)	5210MHz	9.29	/	/	/	/	/	/	/	/	/
	5290MHz	7.13	/	/	/	/	/	/	/	/	/
	5530MHz	6.93	/	/	/	/	/	/	/	/	/
	5610MHz	14.72	/	/	/	/	/	/	/	/	/
	5690MHz	15.09	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

Duty Cycle

Mode	11a	11n20	11ac20	11n40	11ac40	11ac80
Duty Cycle	98%	98%	98%	97%	97%	94%

Conclusion: PASS

A.3. Peak Power Spectral Density (conducted)

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11
	5250MHz~5350MHz	11
	5470MHz~5725MHz	11

The output power measurement method Section F is made according to KDB 789033

Measurement Results:

Mode	Frequency	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180 MHz	2.94	P
	5200 MHz	4.81	P
	5240 MHz	5.95	P
	5260 MHz	5.70	P
	5280 MHz	6.32	P
	5320 MHz	5.27	P
	5500 MHz	-1.63	P
	5580 MHz	5.66	P
	5700 MHz	-2.67	P
	5720 MHz	6.29	P
802.11ac VHT20	5180 MHz	2.36	P
	5200 MHz	4.44	P
	5240 MHz	5.35	P
	5260 MHz	5.17	P
	5280 MHz	6.09	P
	5320 MHz	4.91	P
	5500 MHz	-1.86	P
	5580 MHz	5.14	P
	5700 MHz	-4.38	P
	5720 MHz	5.87	P
802.11ac VHT40	5190 MHz	-2.12	P
	5230 MHz	2.20	P
	5270 MHz	2.59	P
	5310 MHz	-5.02	P
	5510 MHz	-2.37	P
	5550 MHz	2.43	P
	5670 MHz	-1.60	P
	5710 MHz	2.78	P
802.11ac VHT80	5210MHz	-6.55	P
	5290MHz	-8.50	P
	5530MHz	-9.35	P

	5610MHz	-1.52	P
	5690MHz	-0.73	P

Conclusion: PASS

A.4. Occupied 26dB Bandwidth(conducted)

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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Measurement Result:

Mode	Frequency	Occupied 26dB Bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.1	23.08	P
	5200 MHz	Fig.2	22.72	P
	5240 MHz	Fig.3	22.36	P
	5260 MHz	Fig.4	24.20	P
	5280 MHz	Fig.5	24.16	P
	5320 MHz	Fig.6	24.64	P
	5500 MHz	Fig.7	23.12	P
	5580 MHz	Fig.8	23.88	P
	5700 MHz	Fig.9	22.92	P
	5720 MHz	Fig.10	23.16	P

802.11ac VHT20	5180 MHz	Fig.11	24.12	P
	5200 MHz	Fig.12	23.00	P
	5240 MHz	Fig.13	23.00	P
	5260 MHz	Fig.14	23.32	P
	5280 MHz	Fig.15	24.00	P
	5320 MHz	Fig.16	24.80	P
	5500 MHz	Fig.17	23.60	P
	5580 MHz	Fig.18	24.84	P
	5700 MHz	Fig.19	26.28	P
	5720 MHz	Fig.20	24.56	P

802.11ac VHT40	5190 MHz	Fig.21	41.52	P
	5230 MHz	Fig.22	41.52	P

	5270 MHz	Fig.23	49.52	P
	5310 MHz	Fig.24	41.68	P
	5510 MHz	Fig.25	41.68	P
	5550 MHz	Fig.26	42.08	P
	5670 MHz	Fig.27	42.40	P
	5710 MHz	Fig.28	41.84	P

802.11ac VHT80	5210MHz	Fig.29	84.48	P
	5290MHz	Fig.30	83.84	P
	5530MHz	Fig.31	84.32	P
	5610MHz	Fig.32	87.36	P
	5690MHz	Fig.33	85.12	P

Conclusion: PASS
Test graphs as below:



17:59:31 22.12.2022

Fig.1 Occupied 26dB Bandwidth (802.11a, 5180MHz)



18:00:22 22.12.2022

Fig.2 Occupied 26dB Bandwidth (802.11a, 5200MHz)



18:01:41 22.12.2022

Fig.3 Occupied 26dB Bandwidth (802.11a, 5240MHz)



18:02:33 22.12.2022

Fig.4 Occupied 26dB Bandwidth (802.11a, 5260MHz)



18:03:25 22.12.2022

Fig.5 Occupied 26dB Bandwidth (802.11a, 5280MHz)



18:04:17 22.12.2022

Fig.6 Occupied 26dB Bandwidth (802.11a, 5320MHz)



18:05:23 22.12.2022

Fig.7 Occupied 26dB Bandwidth (802.11a, 5500MHz)



18:06:24 22.12.2022

Fig.8 Occupied 26dB Bandwidth (802.11a, 5580MHz)



18:08:15 22.12.2022

Fig.9 Occupied 26dB Bandwidth (802.11a, 5700MHz)



19:29:02 22.12.2022

Fig.10 Occupied 26dB Bandwidth (802.11a, 5720MHz)



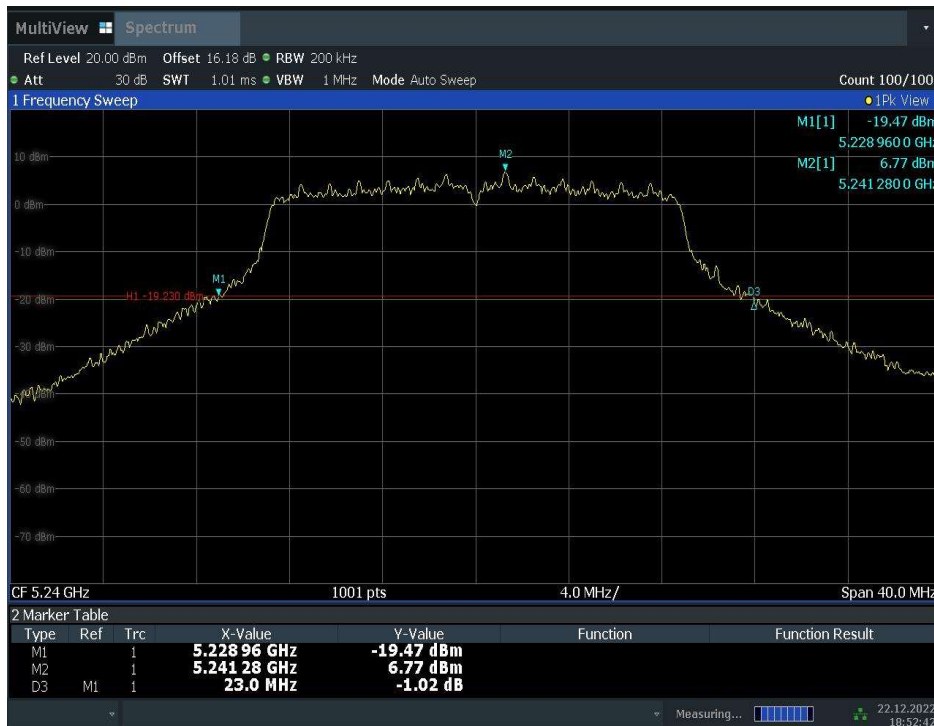
18:48:24 22.12.2022

Fig.11 Occupied 26dB Bandwidth (802.11ac-VHT20, 5180MHz)



18:51:50 22.12.2022

Fig.12 Occupied 26dB Bandwidth (802.11ac-VHT20, 5200MHz)



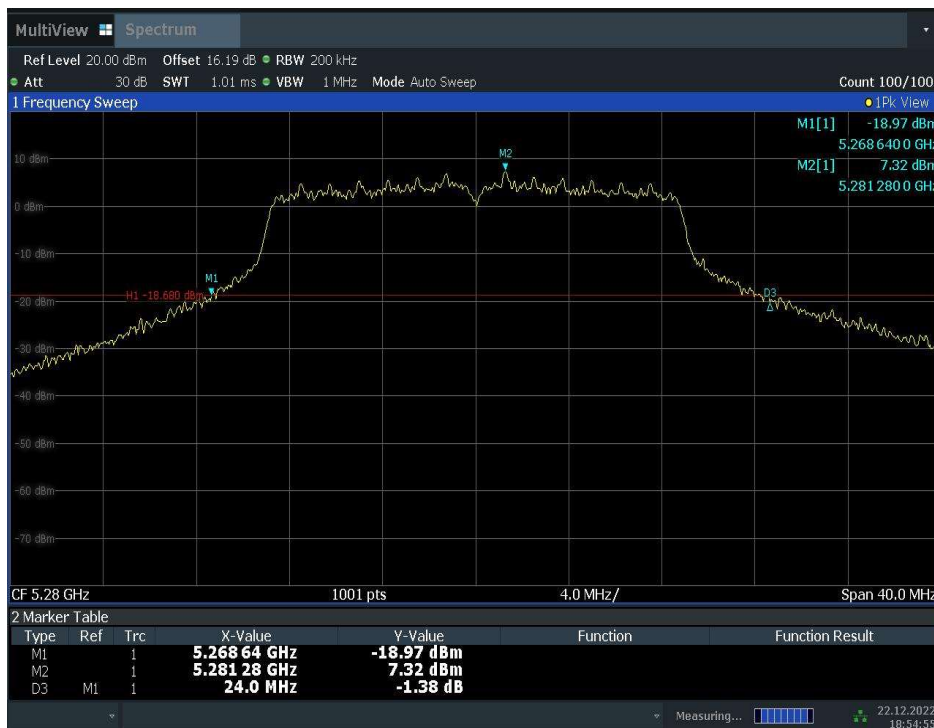
18:52:43 22.12.2022

Fig.13 Occupied 26dB Bandwidth (802.11ac-VHT20, 5240MHz)



18:53:56 22.12.2022

Fig.14 Occupied 26dB Bandwidth (802.11ac-VHT20, 5260MHz)



18:54:56 22.12.2022

Fig.15 Occupied 26dB Bandwidth (802.11ac-VHT20, 5280MHz)



18:56:16 22.12.2022

Fig.16 Occupied 26dB Bandwidth (802.11ac-VHT20, 5320MHz)



18:58:07 22.12.2022

Fig.17 Occupied 26dB Bandwidth (802.11ac-VHT20, 5500MHz)



18:59:41 22.12.2022

Fig.18 Occupied 26dB Bandwidth (802. 11ac-VHT20, 5580MHz)



19:00:30 22.12.2022

Fig.19 Occupied 26dB Bandwidth (802. 11ac-VHT20, 5700MHz)



19:33:09 22.12.2022

Fig.20 Occupied 26dB Bandwidth (802. 11ac-VHT20, 5720MHz)



19:05:24 22.12.2022

Fig.21 Occupied 26dB Bandwidth (802.11ac-VHT40, 5190MHz)



19:06:13 22.12.2022

Fig.22 Occupied 26dB Bandwidth (802.11ac-VHT40, 5230MHz)



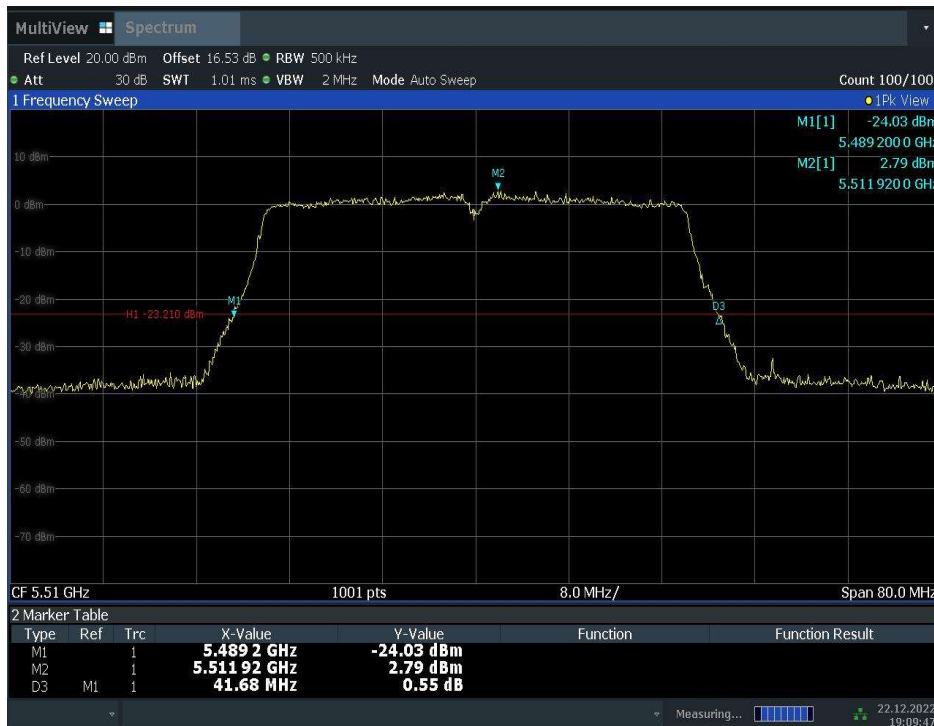
19:07:00 22.12.2022

Fig.23 Occupied 26dB Bandwidth (802.11ac-VHT40, 5270MHz)



19:08:01 22.12.2022

Fig.24 Occupied 26dB Bandwidth (802.11ac-VHT40, 5310MHz)



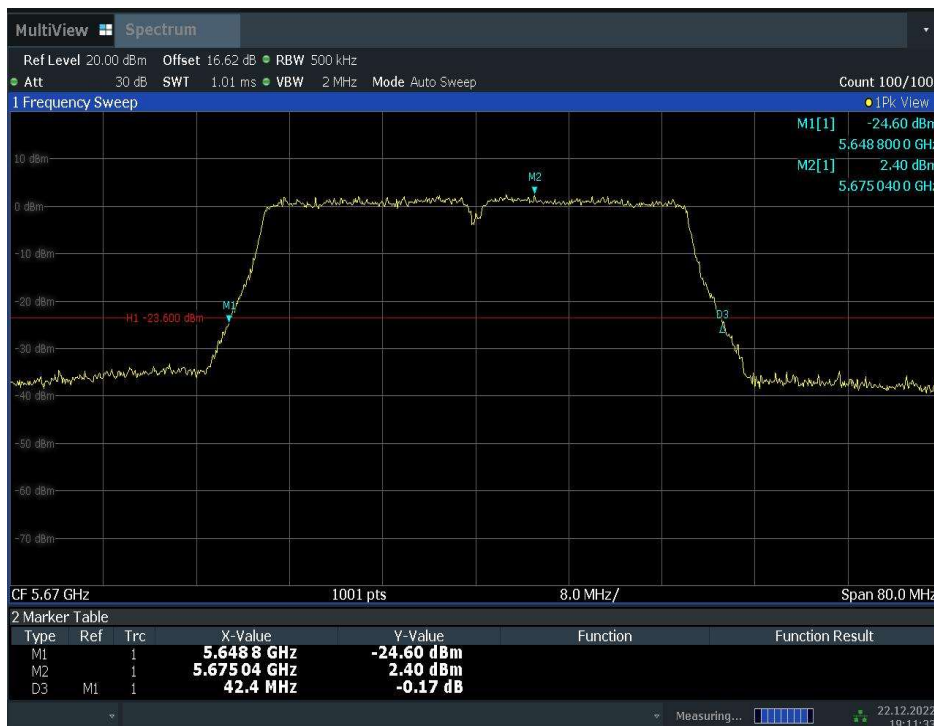
19:09:48 22.12.2022

Fig.25 Occupied 26dB Bandwidth (802.11ac-VHT40, 5510MHz)



19:10:44 22.12.2022

Fig.26 Occupied 26dB Bandwidth (802. 11ac-VHT40, 5550MHz)



19:11:33 22.12.2022

Fig.27 Occupied 26dB Bandwidth (802. 11ac-VHT40, 5670MHz)



19:34:27 22.12.2022

Fig.28 Occupied 26dB Bandwidth (802. 11ac-VHT40, 5710MHz)



19:16:09 22.12.2022

Fig.29 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5210MHz)



19:17:28 22.12.2022

Fig.30 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5290MHz)



19:18:26 22.12.2022

Fig.31 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5530MHz)



19:19:17 22.12.2022

Fig.32 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5610MHz)



19:36:50 22.12.2022

Fig.33 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5690MHz)

A.5. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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Measurement Result:

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.34	17.11	P
	5200 MHz	Fig.35	17.06	P
	5240 MHz	Fig.36	17.14	P
802.11ac VHT20	5180 MHz	Fig.37	18.24	P
	5200 MHz	Fig.38	18.20	P
	5240 MHz	Fig.39	18.20	P
802.11ac VHT40	5190 MHz	Fig.40	36.48	P
	5230 MHz	Fig.41	36.53	P
802.11ac VHT80	5210 MHz	Fig.42	75.67	P

Conclusion: PASS

Test graphs as below:



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Fig.34 99% Occupied bandwidth (802.11a, 5180MHz)



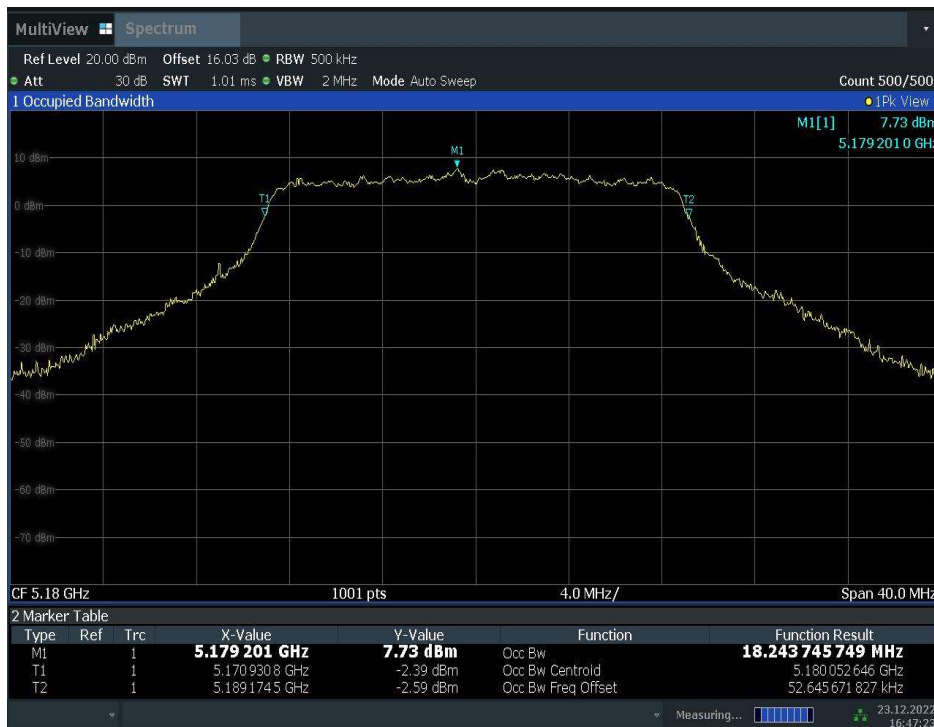
16:34:30 23.12.2022

Fig.35 99% Occupied bandwidth (802.11a, 5200MHz)



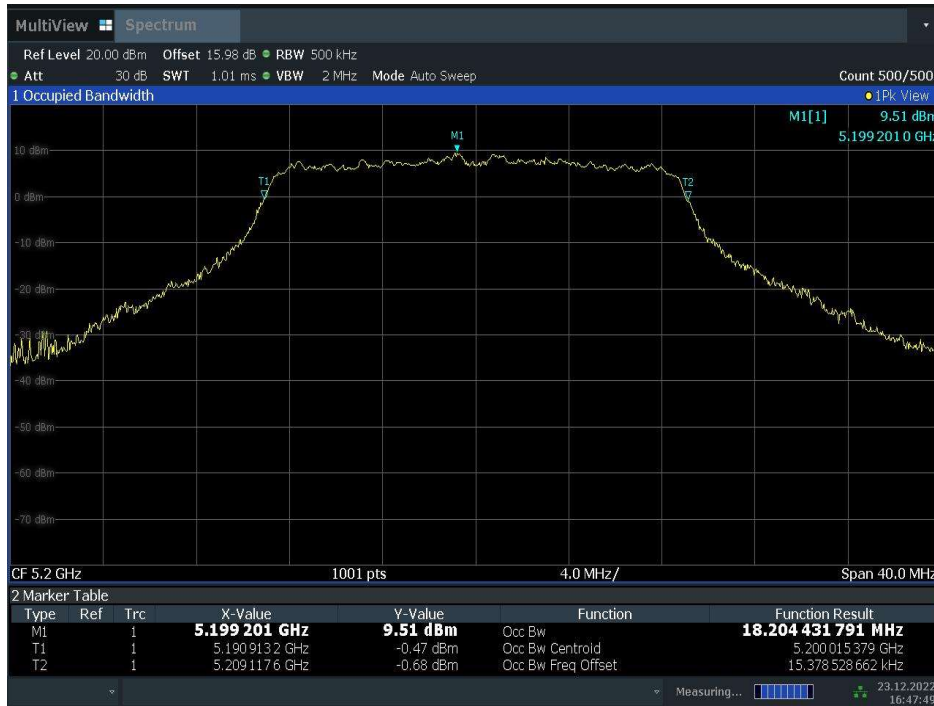
16:36:41 23.12.2022

Fig.36 99% Occupied bandwidth (802.11a, 5240MHz)



16:47:23 23.12.2022

Fig.37 99% Occupied bandwidth (802.11ac-VHT20, 5180MHz)

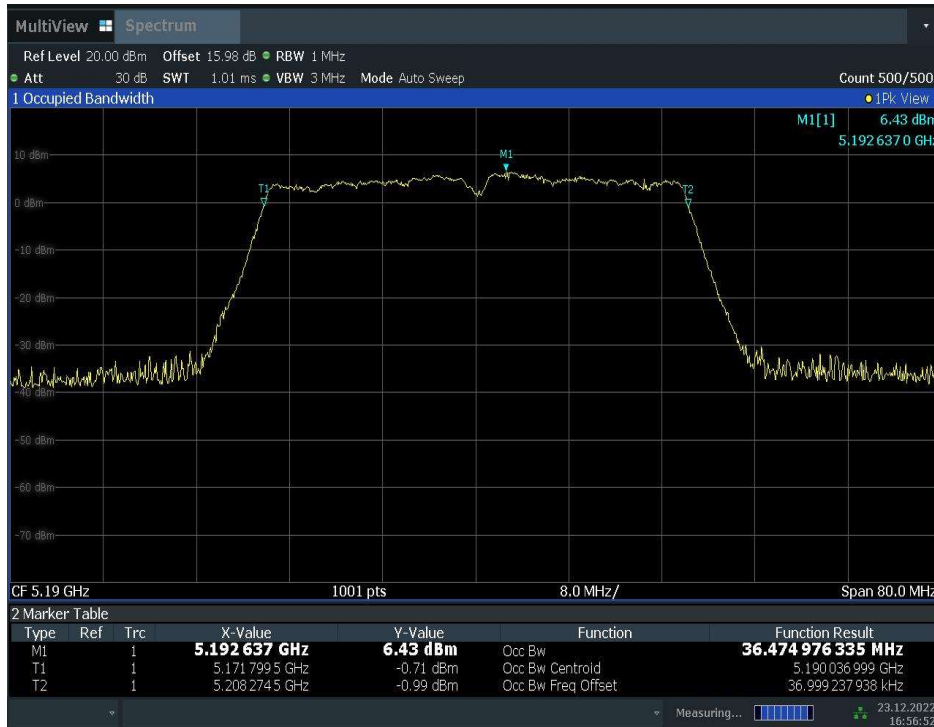


16:47:49 23.12.2022

Fig.38 99% Occupied bandwidth (802.11ac-VHT20, 5200MHz)



16:49:01 23.12.2022

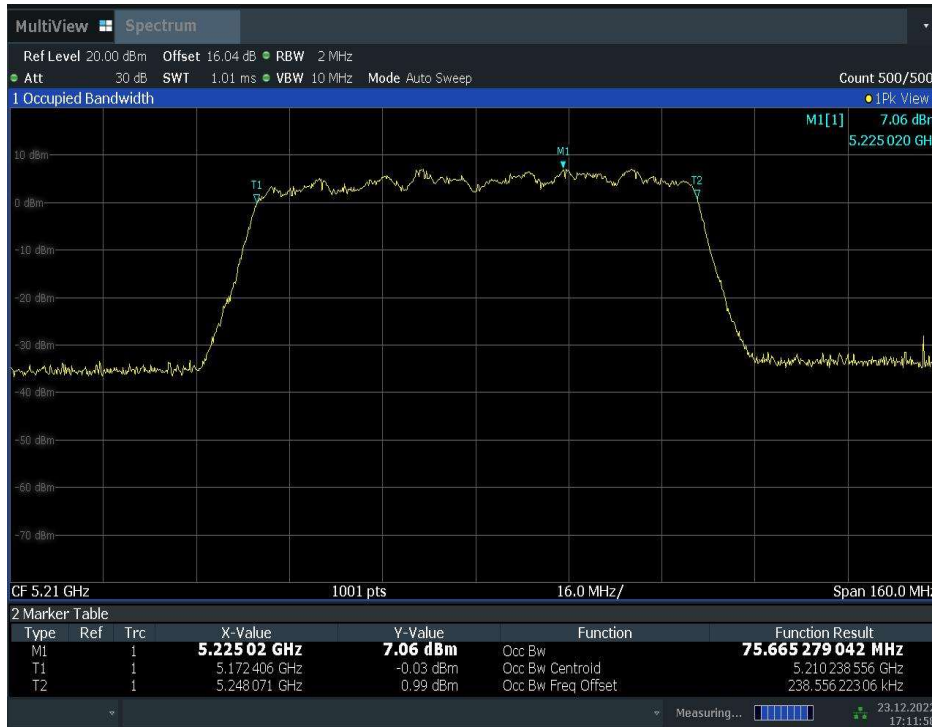
Fig.39 99% Occupied bandwidth (802.11ac-VHT20, 5240MHz)


16:56:53 23.12.2022

Fig.40 99% Occupied bandwidth (802.11ac-VHT40, 5190MHz)


16:57:30 23.12.2022

Fig.41 99% Occupied bandwidth (802.11ac-VHT40, 5230MHz)



17:11:59 23.12.2022

Fig.42 99% Occupied bandwidth (802.11ac-VHT80, 5210MHz)

A.6. Frequency Stability

Manufacturers ensured the EUT meet the requirement of frequency stability, such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

Test Condition:

T min = -30 °C T nom = 26 °C T max = 50 °C
 V nom = 3.6 V V nom = 3.87 V V nom = 4.45 V

Measurement Limit:

Standard	Limit (ppm)
FCC 47 CFR Part 15.407 (g)	20

The measurement is made according to KDB789033 D02.

Measurement Result:

Mode	Frequency	Test Condition		Result(MHz)
		Tnom	Vnom	
802.11ac-VHT40	5190MHz	Tnom	Vnom	5.83
		Tmax	Vnom	0.00
		Tmin	Vnom	19.29
		Vmax	Tnom	3.85

		Vmin	Tnom	5.83
802.11ac-VHT40	5230MHz	Tnom	Vnom	3.82
		Tmax	Vnom	3.83
		Tmin	Vnom	1.87
		Vmax	Tnom	1.87
		Vmin	Tnom	7.66
				Tnom
802.11ac-VHT40	5270MHz	Tmax	Vnom	1.85
		Tmin	Vnom	7.60
		Vmax	Tnom	5.74
		Vmin	Tnom	9.45
				Tnom
802.11ac-VHT40	5310MHz	Tmax	Vnom	5.70
		Tmin	Vnom	5.70
		Vmax	Tnom	0.00
		Vmin	Tnom	5.70
				Tnom
802.11ac-VHT40	5510MHz	Tmax	Vnom	7.27
		Tmin	Vnom	3.63
		Vmax	Tnom	0.00
		Vmin	Tnom	3.63
				Tnom
802.11ac-VHT40	5550MHz	Tmax	Vnom	3.61
		Tmin	Vnom	5.45
		Vmax	Tnom	1.76
		Vmin	Tnom	3.60
				Tnom
802.11ac-VHT40	5670MHz	Tmax	Vnom	8.78

		Tmin	Vnom	5.34
		Vmax	Tnom	3.53
		Vmin	Tnom	1.72
802.11ac-VHT40	5710MHz	Tnom	Vnom	0.00
		Tmax	Vnom	17.44
		Tmin	Vnom	1.71
		Vmax	Tnom	1.71
		Vmin	Tnom	5.30

ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p>  	
<hr/> Certificate of Accreditation to ISO/IEC 17025:2017 <hr/>	
NVLAP LAB CODE: 600118-0	
Telecommunication Technology Labs, CAICT Beijing China	
<i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i>	
Electromagnetic Compatibility & Telecommunications	
<i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i>	
<hr/> 2022-10-01 through 2023-09-30 <i>Effective Dates</i>	  <hr/> <i>For the National Voluntary Laboratory Accreditation Program</i>

*** END OF REPORT BODY ***