

# **FCC Test Report**

Report No.: AGC14499230608FE06

FCC ID : 2APPZ-AP6256

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: IP Phone

BRAND NAME : Fanvi

MODEL NAME : X305

**APPLICANT**: Fanvil Technology Co., Ltd.

**DATE OF ISSUE** : Jul. 17, 2023

**STANDARD(S)** : FCC Part 15 Subpart E §15.407

**REPORT VERSION**: V1.0

Attestation of Global Conciliance (Shenzhen) Co., Ltd



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# REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 17, 2023	Valid	Initial Release

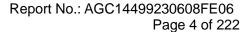


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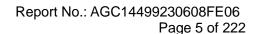
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## 1. VERIFICATION OF CONFORMITY

Applicant	Fanvil Technology Co., Ltd.
Address	10/F Block A, Dualshine Global Science Innovation, Honglang North 2nd Road, Bao'an District, Shenzhen, China
Manufacturer	Fanvil Technology Co., Ltd.
Address	10/F Block A, Dualshine Global Science Innovation, Honglang North 2nd Road, Bao'an District, Shenzhen, China
Factory	Fanvil Technology Co., Ltd.
Address	10/F Block A, Dualshine Global Science Innovation, Honglang North 2nd Road, Bao'an District, Shenzhen, China
Product Designation	IP Phone
Brand Name	Fañvil
Test Model	X305
Date of receipt of test item	Jun. 30, 2023
Date of test	Jun. 30, 2023~Jul. 17, 2023
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

## We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By	Bibo zhang	
	Bibo Zhang (Project Engineer)	Jul. 17, 2023
Reviewed By	Calin Lin	
	Calvin Liu (Reviewer)	Jul. 17, 2023
Approved By	Max Zhang	
	Max Zhang Authorized Officer	Jul. 17, 2023



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# 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

Dutdoor access points
Operation Frequency         □ U-NII 1:5150MHz-5250MHz         □ U-NII 2A: 5250MHz-5350MHz           DFS Design Type         □ Master         □ Slave with radar detection         □ Slave without radar detection           TPC Function         □ Yes         □ No           Hardware Version         V2.0           Software Version         2.12.0.7.3           For 802.11a/n-HT20/ac-VHT20: 5180-5240MHz, 5260-5320MHz, 5500-5700MHz, 5745-5825MHz         For 802.11a/n-HT40/ac-VHT40: 5190-5230MHz, 5270-5310MHz, 5510-5670MHz, 5755-5795MHz           For 802.11ac-VHT80: 5210MHz, 5290MHz, 5530-5610MHz, 5775MHz         IEEE 802.11a(HT20):12.12dBm; IEEE 802.11n(HT20):10.84dBm; IEEE802.11ac(VHT20):10.85dBm; IEEE802.11ac(VHT40):10.64dBm; IEEE 802.11ac(VHT20):10.85dBm; IEEE802.11ac(VHT40):10.78dBm; IEEE802.11ac(VHT80):14.95dBm; 802.11ac:(917218/24/36/48/54Mbps; 802.11ac:(917218/24/36/48/54Mbps; 802.11ac:(956-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM           Modulation         802.11ac:(97218/24/36/48/54Mbps; 802.1
Operation Frequency         □ U-NII 2C:5470MHz~5725MHz         □ U-NII 3: 5725MHz~5850MHz           DFS Design Type         □ Master □ Slave with radar detection □ Slave without radar detection         □ Slave without radar detection           TPC Function         □ Yes □ No           No           Software Version           V2.0           Software Version         2.12.0.7.3           For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 57750MHz, 5745~5825MHz           For 802.11a/n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz, 5510~5670MHz, 5755~5795MHz           For 802.11ac-VHT80: 5210MHz, 5290MHz, 5530~5610MHz, 5775MHz           IEEE 802.11ac(VHT80: 12.12dBm; IEEE 802.11ac(VHT20):10.84dBm;           IEEE 802.11a(HT20):12.12dBm; IEEE 802.11ac(VHT20):10.85dBm;           IEEE802.11ac(VHT40):10.64dBm; IEEE 802.11ac(VHT20):10.85dBm;           Modulation           Modulation           802.11ac(VHT40):10.78dBm; IEEE 802.11ac(VHT80):14.95dBm;           Bo2.11ac(VHT20):10.84dBm;           Bo2.11ac(VHT20):10.84dBm;           Bo2.11ac(VHT20):10.84dBm;           Bo2.11ac(VHT20):10.84dBm;           Bo2.11ac(VHT20):10.84dBm;           Bo2.11ac(VHT20):10.84dBm; </th
DFS Design Type         Master         Slave with radar detection         Slave without radar dete           TPC Function         Yes         No           Hardware Version         V2.0           Software Version         2.12.0.7.3           For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz         For 802.11a/n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz, 5510~5670MHz, 5755~5795MHz           For 802.11a-VHT80: 5210MHz, 5290MHz, 5530~5610MHz, 5775MHz         IEEE 802.11acVHT80: 5210MHz, 5290MHz, 5530~5610MHz, 5775MHz           IEEE 802.11a(HT20):12.12dBm; IEEE 802.11ac(VHT20):10.84dBm; IEEE 802.11a(IHT20):10.64dBm; IEEE 802.11ac(VHT20):10.85dBm; IEEE802.11ac(VHT80):10.78dBm; IEEE802.11ac(VHT80):14.95dBm;           Modulation         802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM           Modulation         802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM           802.11a:(9/9/12/18/24/36/48/54Mbps;           802.11a:(9/9/12/18/24/36/48/54Mbps;           802.11a:up to 300Mbps;           802.11a:up to 866.6Mbps;           7 channels of U-NII-1 Band           7 channels of U-NII-2A Band           18 channels of U-NII-2C Band           8 channels of U-NII-2C Band           8 channels of U-NII 3 Band           PIFA Antenna           U-NII 1: 4.0dBi           II-NII 2A: 3 9dRii
TPC Function         ☐ Yes         ☒ No           Hardware Version         V2.0           Software Version         2.12.0.7.3           For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz         For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz, 5510~5670MHz, 5755~5795MHz           For 802.11a-For MHz         For 802.11a-For MHz         5510~5670MHz, 5755~5795MHz           For 802.11a-VHT80: 5210MHz, 5290MHz, 5530~5610MHz, 5775MHz         IEEE 802.11a(HT20):12.12dBm; IEEE 802.11n(HT20):10.84dBm; IEEE 802.11ac(VHT20):10.85dBm; IEEE802.11ac(VHT20):10.85dBm; IEEE802.11ac(VHT20):10.8ddBm; IEEE802.11ac(VHT20):1
Hardware Version
Software Version   2.12.0.7.3   For 802.11a/n-HT20/ac-VHT20: 5180-5240MHz, 5260~5320MHz, 5500~5700MHz, 5745-5825MHz   For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz, 5510~5670MHz, 5755~5795MHz   For 802.11ac-VHT80: 5210MHz, 5290MHz, 5530~5610MHz, 5775MHz   IEEE 802.11ac-VHT80: 5210MHz, 5290MHz, 5530~5610MHz, 5775MHz   IEEE 802.11a(HT20):12.12dBm; IEEE 802.11n(HT20):10.84dBm; IEEE802.11n(HT40):10.64dBm; IEEE 802.11ac(VHT20):10.85dBm; IEEE802.11ac(VHT40):10.78dBm; IEEE802.11ac(VHT80):14.95dBm;   IEEE802.11ac(VHT40):10.78dBm; IEEE802.11ac(VHT80):14.95dBm;   802.11ac:(256-QAM, 64-QAM, QPSK, BPSK) OFDM   802.11ac:(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM   802.11ac:up to 300Mbps;   802.11ac:up to 866.6Mbps;   7 channels of U-NII-1 Band   7 channels of U-NII-2A Band   18 channels of U-NII-2C Band   8 channels of U-NII-2C Band   8 channels of U-NII-3C Band   9
For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz
Test Frequency Range  5500~5700MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz, 5510~5670MHz, 5755~5795MHz For 802.11ac-VHT80: 5210MHz, 5290MHz, 5530~5610MHz, 5775MHz  IEEE 802.11a(HT20):12.12dBm; IEEE 802.11n(HT20):10.84dBm; IEEE802.11n(HT40):10.64dBm; IEEE 802.11ac(VHT20):10.85dBm; IEEE802.11ac(VHT40):10.78dBm; IEEE802.11ac(VHT80):14.95dBm;  Modulation  802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11a:6/9/12/18/24/36/48/54Mbps;  802.11n:up to 300Mbps; 802.11n:up to 866.6Mbps; 7 channels of U-NII-1 Band 7 channels of U-NII-2 Band 18 channels of U-NII-2 Band 8 channels of U-NII-2 Band 18 channels of U-NII-3 Band  Antenna Designation  PIFA Antenna  U-NII 1: 4.0dBi II-NII 24: 3 9dBi
Test Frequency Range         For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5270~5310MHz, 5510~5670MHz, 5755~5795MHz           For 802.11ac-VHT80: 5210MHz, 5290MHz, 5530~5610MHz, 5775MHz           IEEE 802.11a(HT20):12.12dBm; IEEE 802.11n(HT20):10.84dBm; IEEE802.11n(HT40):10.64dBm; IEEE 802.11ac(VHT20):10.85dBm; IEEE802.11ac(VHT20):10.78dBm; IEEE802.11ac(VHT80):14.95dBm;           Modulation         802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac:(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11a:6/9/12/18/24/36/48/54Mbps; 802.11a:cup to 300Mbps; 802.11ac:up to 866.6Mbps; 7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 18 channels of U-NII-2C Band 8 channels of U-NII-2C Band 8 channels of U-NII 3 Band           Antenna Designation         PIFA Antenna           U-NII 1: 4.0dBi           II-NII 2A: 3 9dBi
S510~5670MHz, 5755~5795MHz   For 802.11ac-VHT80: 5210MHz, 5290MHz, 5530~5610MHz, 5775MHz     IEEE 802.11a(HT20):12.12dBm; IEEE 802.11n(HT20):10.84dBm;   IEEE802.11n(HT40):10.64dBm; IEEE 802.11ac(VHT20):10.85dBm;   IEEE802.11ac(VHT40):10.78dBm; IEEE802.11ac(VHT80):14.95dBm;     Modulation
For 802.11ac-VHT80: 5210MHz, 5290MHz, 5530~5610MHz, 5775MHz     IEEE 802.11a(HT20):12.12dBm; IEEE 802.11n(HT20):10.84dBm;     IEEE802.11n(HT40):10.64dBm; IEEE 802.11ac(VHT20):10.85dBm;     IEEE802.11ac(VHT40):10.78dBm; IEEE802.11ac(VHT80):14.95dBm;     Record
Dutput Power   IEEE 802.11a(HT20):12.12dBm; IEEE 802.11n(HT20):10.84dBm;   IEEE802.11n(HT40):10.64dBm; IEEE 802.11ac(VHT20):10.85dBm;   IEEE802.11ac(VHT40):10.78dBm; IEEE802.11ac(VHT80):14.95dBm;   802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM   802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM   802.11a:6/9/12/18/24/36/48/54Mbps;   802.11n:up to 300Mbps;   802.11a:up to 866.6Mbps;   802.11ac:up to 866.6Mbps;   7 channels of U-NII-1 Band   7 channels of U-NII-2A Band   18 channels of U-NII-2C Band   8 channels of U-NII-3 Band   PIFA Antenna   PIFA Antenna   U-NII 1: 4.0dBi   U-NII 2A: 3 9dBi   U-NII-2A: 3 9dBi
Output Power         IEEE802.11n(HT40):10.64dBm; IEEE 802.11ac(VHT20):10.85dBm; IEEE802.11ac(VHT40):10.78dBm; IEEE802.11ac(VHT80):14.95dBm;           Modulation         802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM           Data Rate         802.11a:6/9/12/18/24/36/48/54Mbps; 802.11n:up to 300Mbps; 802.11ac:up to 866.6Mbps; 7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 18 channels of U-NII-2C Band 8 channels of U-NII-2C Band 8 channels of U-NII 3 Band           Antenna Designation         PIFA Antenna           U-NII 1: 4.0dBi II-NII 2A: 3 9dBi
IEEE802.11ac(VHT40):10.78dBm; IEEE802.11ac(VHT80):14.95dBm;     802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM     802.11ac:(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM     802.11a:6/9/12/18/24/36/48/54Mbps;     802.11a:b/9/12/18/24/36/48/54Mbps;     802.11a:up to 300Mbps;     802.11ac:up to 866.6Mbps;     7 channels of U-NII-1 Band     7 channels of U-NII-2A Band     18 channels of U-NII-2C Band     8 channels of U-NII 3 Band     Antenna Designation   PIFA Antenna     U-NII 1: 4.0dBi     U-NII 24: 3 9dBi
Modulation         802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM           802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM           802.11a:6/9/12/18/24/36/48/54Mbps;           802.11n:up to 300Mbps;           802.11ac:up to 866.6Mbps;           7 channels of U-NII-1 Band           7 channels of U-NII-2A Band           18 channels of U-NII-2C Band           8 channels of U-NII 3 Band           PIFA Antenna           U-NII 1: 4.0dBi           II-NII 2A: 3 9dBi
Modulation  802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM  802.11a:6/9/12/18/24/36/48/54Mbps;  802.11n:up to 300Mbps;  802.11ac:up to 866.6Mbps;  7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 18 channels of U-NII-2C Band 8 channels of U-NII 3 Band  Antenna Designation  PIFA Antenna  U-NII 1: 4.0dBi LI-NII 2A: 3 9dBi
802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM   802.11a:6/9/12/18/24/36/48/54Mbps;   802.11n:up to 300Mbps;   802.11ac:up to 866.6Mbps;   7 channels of U-NII-1 Band   7 channels of U-NII-2A Band   18 channels of U-NII-2C Band   8 channels of U-NII 3 Band   PIFA Antenna   U-NII 1: 4.0dBi   U-NII 2A: 3 9dBi   U-NII 2A: 3 9dBi
Data Rate802.11n:up to 300Mbps; 802.11ac:up to 866.6Mbps;Number of channels7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 18 channels of U-NII-2C Band 8 channels of U-NII 3 BandAntenna DesignationPIFA AntennaU-NII 1: 4.0dBi U-NII 2A: 3 9dBi
Number of channels  Number of channels  Number of channels  Number of channels  PiFA Antenna  U-NII 1: 4.0dBi  U-NII 2A: 3 9dBi
Number of channels  7 channels of U-NII-1 Band 7 channels of U-NII-2A Band 18 channels of U-NII-2C Band 8 channels of U-NII 3 Band  Antenna Designation  PIFA Antenna  U-NII 1: 4.0dBi U-NII 2A: 3 9dBi
Number of channels  7 channels of U- NII-2A Band 18 channels of U-NII 2 Band 8 channels of U- NII 3 Band  Antenna Designation  PIFA Antenna  U-NII 1: 4.0dBi U-NII 2A: 3 9dBi
Number of channels  18 channels of U-NII-2C Band 8 channels of U- NII 3 Band  Antenna Designation  PIFA Antenna  U-NII 1: 4.0dBi U-NII 2A: 3 9dBi
18 channels of U-NII-2C Band 8 channels of U- NII 3 Band  Antenna Designation  PIFA Antenna  U-NII 1: 4.0dBi  U-NII 2A: 3 9dBi
Antenna Designation PIFA Antenna U-NII 1: 4.0dBi U-NII 2A: 3 9dBi
U-NII 1: 4.0dBi
LI-NII 2A· 3 9dBi
U-NII 2A: 3 9dBi
Antonno Coin
Antenna Gain U-NII 2C: 4.9dBi
U-NII 3: 4.9dBi
Power Supply DC 5V by adapter or DC 48V by PoE



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#### 2.2. TABLE OF CARRIER FREQUENCYS

#### For 5180~5240MHz:

## 4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

## 2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

## 1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz		

#### For 5260~5320MHz:

## 5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

## 2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

# 1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
58	5290 MHz		



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## For 5500~5720MHz:

## 11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

•	•	, , ,	
Channel	Channel Frequency Channel		Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz		

# 5 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz		

# 2 channels is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency	
106	5530 MHz	122	5610 MHz	



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## For 5745~5825MHz:

## 5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

# 2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency	
151	5755 MHz	159	5795 MHz	

## 1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
155	5775 MHz		



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# 2.3. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID**: **2APPZ-AP6256** filing to comply with the FCC Part 15 requirements.

## 2.4. TEST METHODOLOGY

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 789033	789033 D02 General U-NII Test Procedures New Rules v02r01

#### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

## 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.



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#### 3. TEST ENVIRONMENT

#### 3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### 3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

## CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

## FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

#### IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.



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## 3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS				
Temperature range (°C)	15 - 35	-30 - 50				
Relative humidty range	20 % - 75 %	20 % - 75 %				
Pressure range (kPa)	86 - 106	86 - 106				
Power supply	DC 5.0V by adapter	LV DC 4.25V/HV DC 5.75V				
Power supply	DC 48V by PoE	LV DC 40.8V/HV DC 55.2V				
Note: The Extreme Temperature and	Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer					

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

#### 3.4 MEASUREMENT UNCERTAINTY

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

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	U <sub>c</sub> = ±2.7 %



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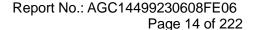
## 3.5 LIST OF EQUIPMENTS USED

## TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 03, 2023	Jun. 02, 2024
LISN	R&S	ESH2-Z5	100086	Jun. 03, 2023	Jun. 02, 2024
Test software	R&S	ES-K1 (Ver.V1.71)	N/A	N/A	N/A

## **TEST EQUIPMENT OF RADIATED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Power sensor	Aglient	U2021XA	MY54110007	Jun. 01, 2023	May 31, 2024
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	N/A	N/A
USB Wideband Power Sensor	Agilent	U2021XA	MY54110007	Mar. 03, 2023	Mar. 02, 2024
Attenuator	ZHINAN	E-002	N/A	Sep. 01, 2022	Aug. 31, 2023
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Mar. 23, 2023	Mar. 22, 2024
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	N/A	N/A
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 05, 2023	Jan. 04, 2025
Test software	FARA	EZ-EMC (Ver.AGC-CON03A 1)	N/A	N/A	N/A



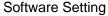


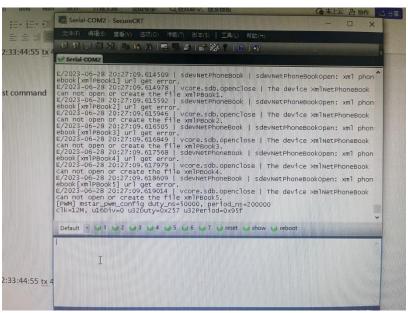
## 4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate (Mbps)
802.11a/n/ac	Refer to Section 2.2	36,40,48,52,60,64,100 116,140,149,157,165	OFDM	6Mbps/MCS0
802.11n/ac		38,46,54,62,102 110,134,151,159	OFDM	MCS0
802.11ac		42,58,106,121,155	OFDM	MCS0

#### Note:

- 1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle>or equal 98%.
- 2. All modes under which configure applicable have been tested and the worst mode test data recording
- in the test report, if no other mode data.



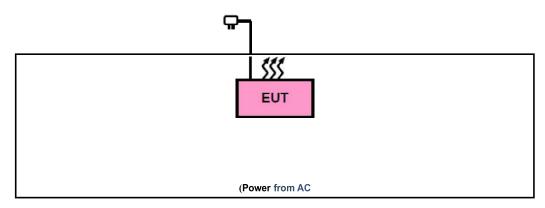




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# 5. SYSTEM TEST CONFIGURATION

## **5.1. CONFIGURATION OF EUT SYSTEM**



#### **5.2. EQUIPMENT USED IN EUT SYSTEM**

Item	Equipment	Model No.	ID or Specification	Remark
1	IP Phone	X305	FCC ID: 2APPZ-AP6256	EUT
2	Adapter	GQ12-050200-AU	D50200-AU Input: AC 100-240V 50/60Hz, 0.4A Output: DC 5.0V 2A	
3	Ethernet Cable	N/A	N/A	AE
4	Handset Wire	N/A	1.5m Unshielded	AE
5	Handset	N/A	N/A	AE
6	Wall Stand	N/A	N/A	AE
7	Stand	N/A	N/A	AE
8	PoE	ADS-120HK-48-1 520120E	DC 12V 1A (IEEE 802.3af)	AE

#### **5.3. SUMMARY OF TEST RESULTS**

Item	FCC Rules	Description Of Test	Result
1	§15.203	Antenna Equipment	Pass
2	§15.407(a/1/2/3)	RF Output Power	Pass
3	§15.407(e)	6dB Bandwidth Measurement	Pass
4	§2.1049	26dB bandwidth Measurement	Pass
5	§15.407(a/1/2/3)	Power Spectral Density	Pass
6	§15.407(b)(1/2/3/4)	Conducted Spurious Emission	Pass
7	§15.209,§15.407(b)(1/2/3/4)	Radiated Emission& Band Edge	Pass
8	§15.207	AC Power Line Conducted Emission	Pass



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#### 6. RF OUTPUT POWER MEASUREMENT

#### **6.1 MEASUREMENT LIMITS**

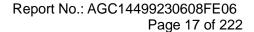
Operation Band		EUT Category	LIMIT		
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p < 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)		
J		Fixed point-to-point Access Point	1 Watt (30 dBm)		
		Indoor Access Point	1 Watt (30 dBm)		
	$\boxtimes$	Client devices	250mW (23.98 dBm)		
U-NII-2A		/	250mW (23.98 dBm) or 11 dBm+10 log B*		
U-NII-2C	/		/		250mW (23.98 dBm) or 11 dBm+10 log B*
U-NII-3		/	1 Watt (30 dBm)		

Note: Where B is the 26dB emission bandwidth in MHz.

#### **6.2 MEASUREMENT PROCEDURE**

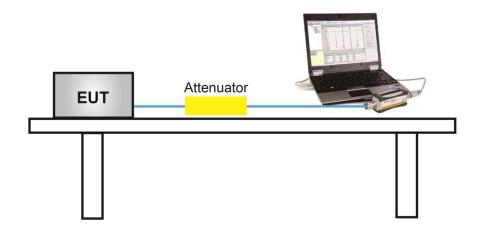
Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:

- 1. The testing follows the ANSI C63.10 Section 12.3.3.1
- 2. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
- 3. The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
- 4. At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 5. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
- 7. Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- 8. Adjust the measurement in dBm by adding [10 log (1 / D)], where D is the duty cycle {e.g., [10 log (1 / 0.25)], if the duty cycle is 25%}.
- 9. Record the test results in the report.



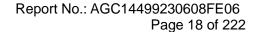


# 6.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



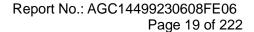
# **6.4 MEASUREMENT RESULT**

	Test Data of Conducted Output Power for band 5.15-5.25 GHz					
Test Mode	Test Channel (MHz)	3.5		Pass or Fail		
	5180	12.12	23.98	Pass		
802.11a	5200	11.92	23.98	Pass		
	5240	11.62	23.98	Pass		
	5180	10.84	23.98	Pass		
802.11n20	5200	10.59	23.98	Pass		
	5240	10.22	23.98	Pass		
000 11510	5190	10.64	23.98	Pass		
802.11n40	5230	10.43	23.98	Pass		
	5180	10.85	23.98	Pass		
802.11ac20	5200	10.67	23.98	Pass		
	5240	10.32	23.98	Pass		
802.11ac40	5190	10.78	23.98	Pass		
002.11ac40	5230	10.49	23.98	Pass		
802.11ac80	5210	10.74	23.98	Pass		



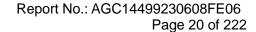


	Test Data of Conducted Output Power for band 5.25-5.35 GHz-					
Test Mode	de Test Channel Average Power (MHz) (dBm)		Limits (dBm)	Pass or Fail		
	5260	11.57	23.98	Pass		
802.11a	5300	11.14	23.98	Pass		
	5320	10.77	23.98	Pass		
	5260	10.07	23.98	Pass		
802.11n20	5300	9.68	23.98	Pass		
	5320	9.35	23.98	Pass		
000 11 = 10	5270	9.87	23.98	Pass		
802.11n40	5310	9.49	23.98	Pass		
	5260	10.04	23.98	Pass		
802.11ac20	5300	9.76	23.98	Pass		
	5320	9.44	23.98	Pass		
902 110010	5270	10.02	23.98	Pass		
802.11ac40	5310	9.58	23.98	Pass		
802.11ac80	5290	9.91	23.98	Pass		





	Test Data of Conducted Output Power for band 5.470-5.725 GHz					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail		
	5500	10.85	23.98	Pass		
802.11a	5600	11.25	23.98	Pass		
	5700	10.50	23.98	Pass		
	5500	9.43	23.98	Pass		
802.11n20	5600	9.78	23.98	Pass		
	5700	9.14	23.98	Pass		
	5510	9.41	23.98	Pass		
802.11n40	5590	9.74	23.98	Pass		
	5670	10.15	23.98	Pass		
	5500	9.45	23.98	Pass		
802.11ac20	5600	10.01	23.98	Pass		
	5700	9.19	23.98	Pass		
	5510	9.30	23.98	Pass		
802.11ac40	5590	9.77	23.98	Pass		
	5670	1.14	23.98	Pass		
802.11ac80	5530	9.17	23.98	Pass		
002.118000	5610	10.02	23.98	Pass		





	Test Data of Conducted Output Power for band 5.725-5.850 GHz					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail		
	5745	11.21	30	Pass		
802.11a	5785	10.06	30	Pass		
	5825	8.69	30	Pass		
	5745	9.93	30	Pass		
802.11n20	5785	8.76	30	Pass		
	5825	7.46	30	Pass		
802.11n40	5755	9.92	30	Pass		
602.111140	5795	8.54	30	Pass		
	5745	9.93	30	Pass		
802.11ac20	5785	8.65	30	Pass		
	5825	7.31	30	Pass		
902 11 0010	5755	9.81	30	Pass		
802.11ac40	5795	8.40	30	Pass		
802.11ac80	5775	14.95	30	Pass		



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#### 7. 6DB&26DB BANDWIDTH MEASUREMENT

#### 7.1 MEASUREMENT LIMITS

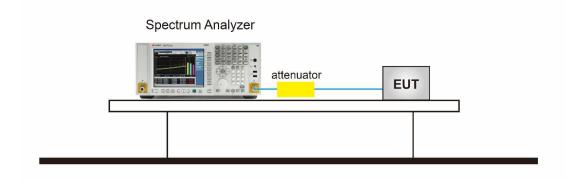
The minimum 6dB bandwidth shall be at least 500 kHz.

#### 7.2 MEASUREMENT PROCEDURE

- 7.2.1 -6dB bandwidth (DTS bandwidth) Test setting:
  - 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
  - 2. Set the EUT Work on operation frequency individually.
  - 3. Set RBW = 100kHz.
  - 4. Set the VBW  $\geq 3*RBW$ . Detector = Peak. Trace mode = max hold.
  - 5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
- 7.2.2 99% occupied bandwidth test setting:
  - 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
  - 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
  - 3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
    The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
    bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
  - 4. Set SPA Trace 1 Max hold, then View.
- 7.2.3 -26dB Bandwidth test setting:
  - 1. Set RBW = approximately 1% of the emission bandwidth.
  - 2. Set the VBW > RBW.
  - 3. Detector = Peak.
  - 4. Trace mode = max hold.
  - 5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

#### 7.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



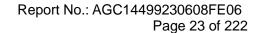


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#### 7.4 MEASUREMENT RESULTS

Test	Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz						
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail		
	5180	16.472	20.849	N/A	Pass		
802.11a	5200	16.517	20.682	N/A	Pass		
	5240	16.499	20.903	N/A	Pass		
	5180	17.610	20.964	N/A	Pass		
802.11n20	5200	17.629	21.010	N/A	Pass		
	5240	17.602	20.943	N/A	Pass		
802.11n40	5190	36.037	39.280	N/A	Pass		
602.111140	5230	35.984	39.122	N/A	Pass		
	5180	17.649	21.224	N/A	Pass		
802.11ac20	5200	17.663	20.944	N/A	Pass		
	5240	17.628	21.111	N/A	Pass		
802.11ac40	5190	36.054	38.901	N/A	Pass		
002.118040	5230	35.991	39.143	N/A	Pass		
802.11ac80	5210	75.213	80.391	N/A	Pass		

Test I	Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.25-5.35 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail	
	5260	16.503	20.801	N/A	Pass	
802.11a	5300	16.497	20.669	N/A	Pass	
	5320	16.498	20.655	N/A	Pass	
	5260	17.629	21.015	N/A	Pass	
802.11n20	5300	17.623	21.070	N/A	Pass	
	5320	17.641	20.768	N/A	Pass	
802.11n40	5270	35.974	38.959	N/A	Pass	
002.111140	5310	35.960	39.122	N/A	Pass	
	5260	17.634	21.111	N/A	Pass	
802.11ac20	5300	17.632	20.962	N/A	Pass	
	5320	17.641	21.124	N/A	Pass	
902 110040	5270	36.011	39.181	N/A	Pass	
802.11ac40	5310	35.984	39.443	N/A	Pass	
802.11ac80	5290	75.198	80.305	N/A	Pass	



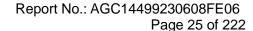


Test [	Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.47-5.725 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail	
	5500	16.697	24.040	N/A	Pass	
802.11a	5600	16.788	23.969	N/A	Pass	
	5700	16.691	24.426	N/A	Pass	
	5500	17.717	22.005	N/A	Pass	
802.11n20	5600	17.732	25.520	N/A	Pass	
	5700	17.699	21.630	N/A	Pass	
	5510	36.113	48.407	N/A	Pass	
802.11n40	5590	36.121	47.158	N/A	Pass	
	5670	36.103	46.807	N/A	Pass	
	5500	17.727	21.235	N/A	Pass	
802.11ac20	5600	17.737	24.226	N/A	Pass	
	5700	17.714	21.689	N/A	Pass	
	5510	36.150	46.876	N/A	Pass	
802.11ac40	5590	36.158	48.498	N/A	Pass	
	5670	36.131	41.666	N/A	Pass	
802.11ac80	5530	75.570	97.615	N/A	Pass	
002.118000	5610	75.318	99.237	N/A	Pass	



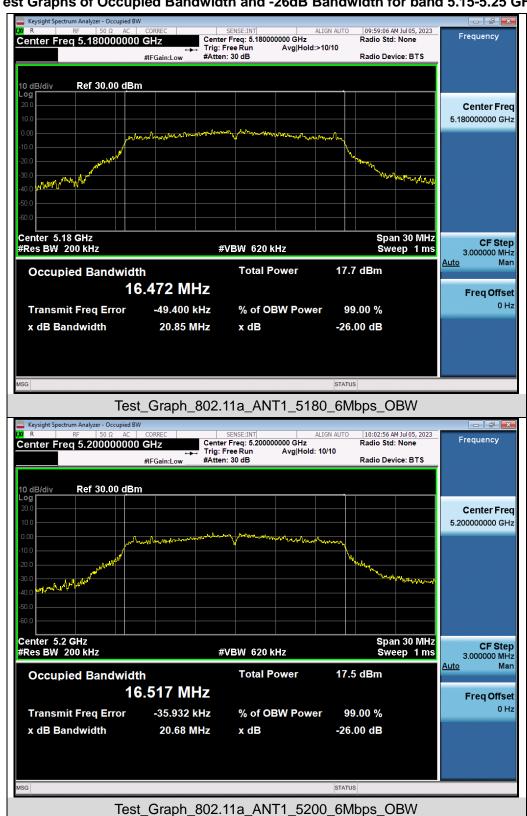
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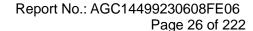
Tes	Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz						
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail		
	5745	16.642	15.674	0.5	Pass		
802.11a	5785	16.581	16.037	0.5	Pass		
	5825	16.628	16.272	0.5	Pass		
	5745	17.702	15.187	0.5	Pass		
802.11n20	5785	17.697	16.897	0.5	Pass		
	5825	17.660	16.295	0.5	Pass		
802.11n40	5755	36.134	35.158	0.5	Pass		
002.111140	5795	36.213	35.158	0.5	Pass		
	5745	17.677	17.253	0.5	Pass		
802.11ac20	5785	17.719	16.264	0.5	Pass		
	5825	17.719	16.238	0.5	Pass		
802.11ac40	5755	36.162	35.164	0.5	Pass		
002.11a040	5795	36.193	35.180	0.5	Pass		
802.11ac80	5775	75.652	75.204	0.5	Pass		



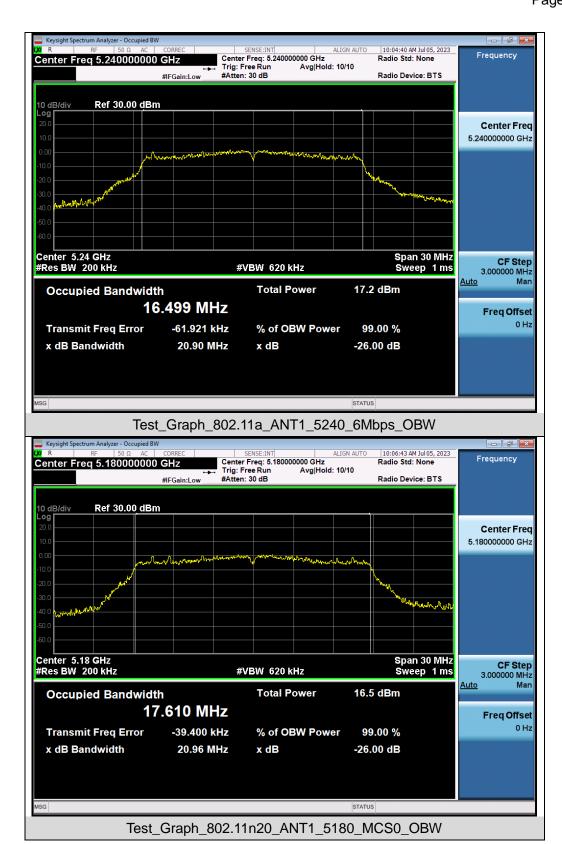


## Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz

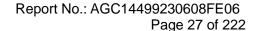




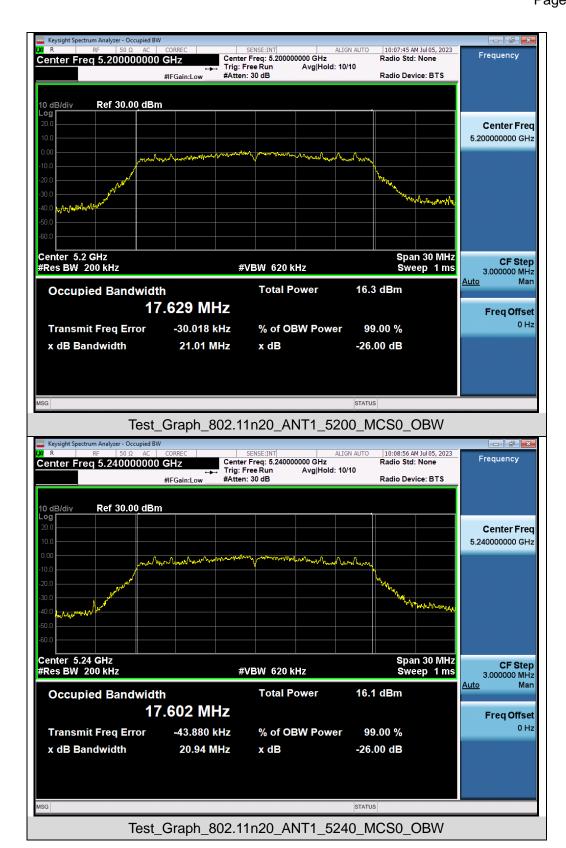


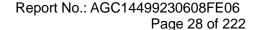


Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

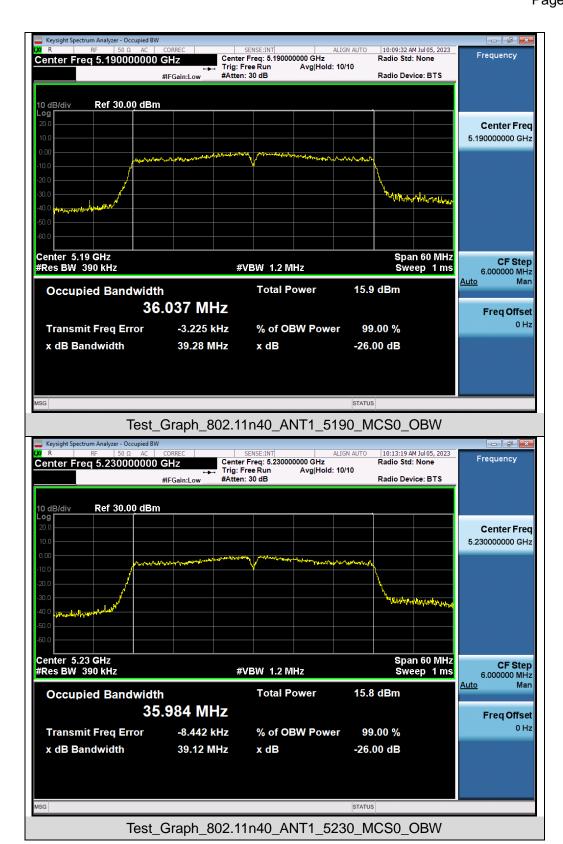




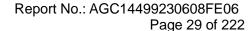




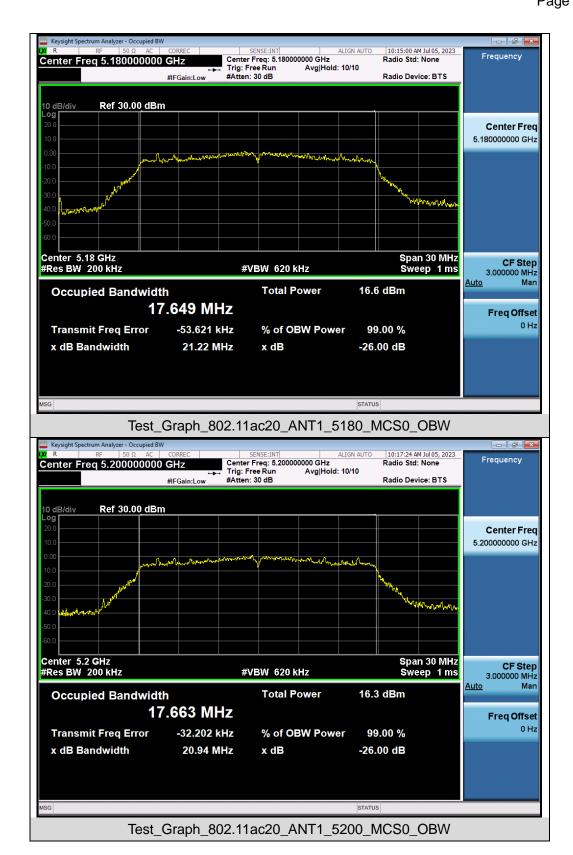




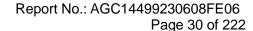
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



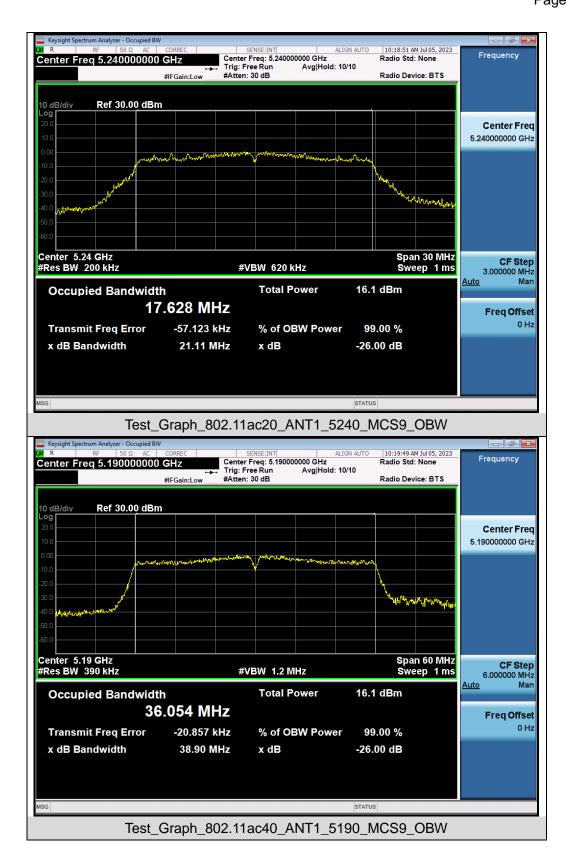


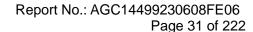


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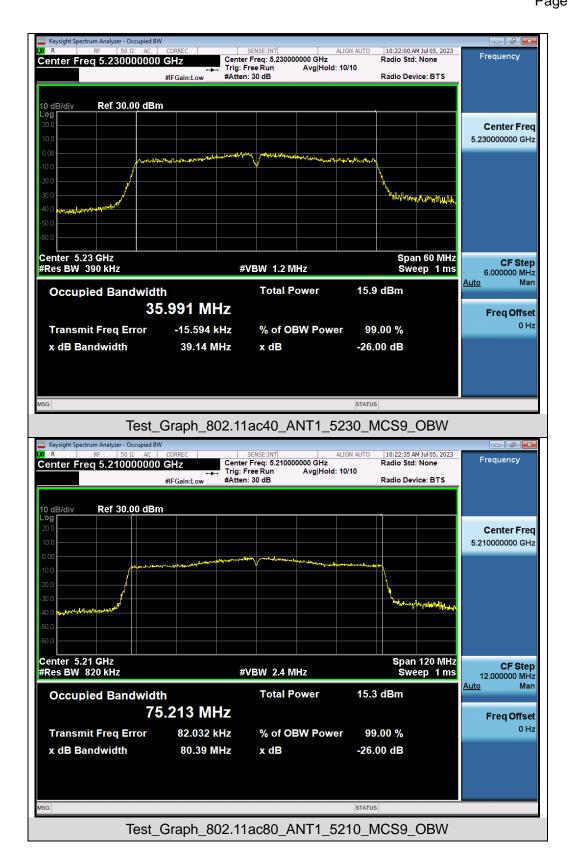




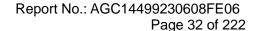






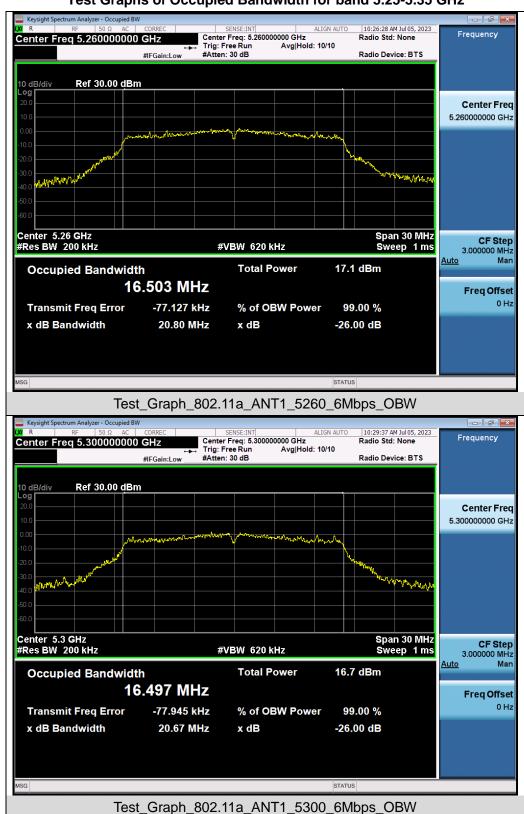


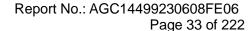
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



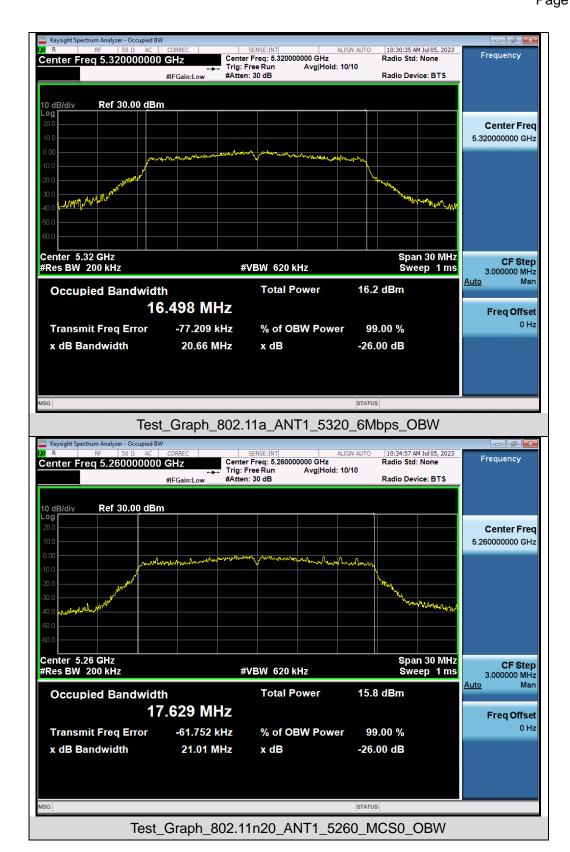


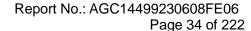
# Test Graphs of Occupied Bandwidth for band 5.25-5.35 GHz



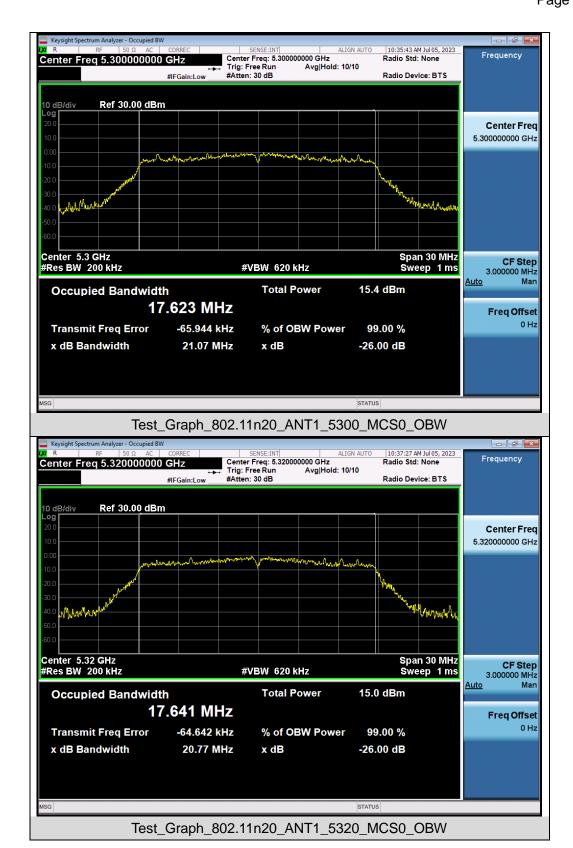


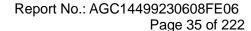




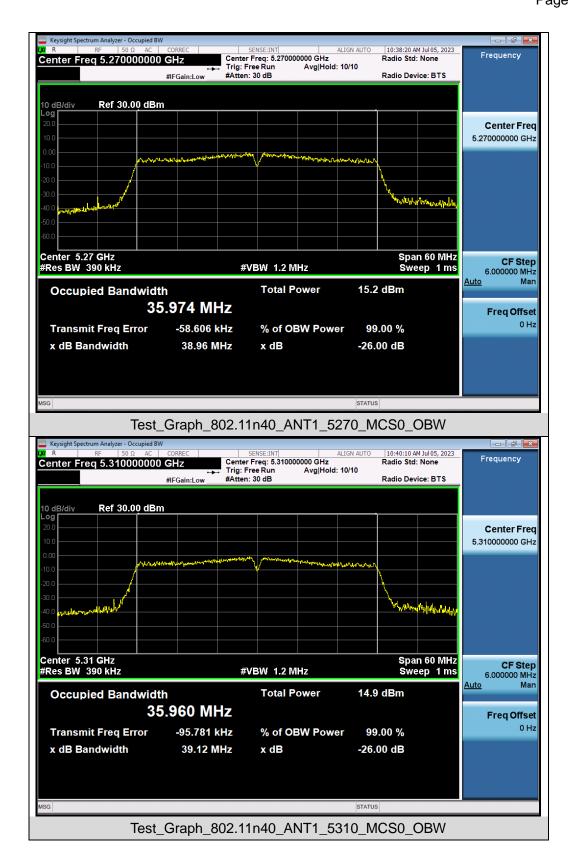


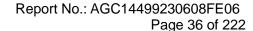




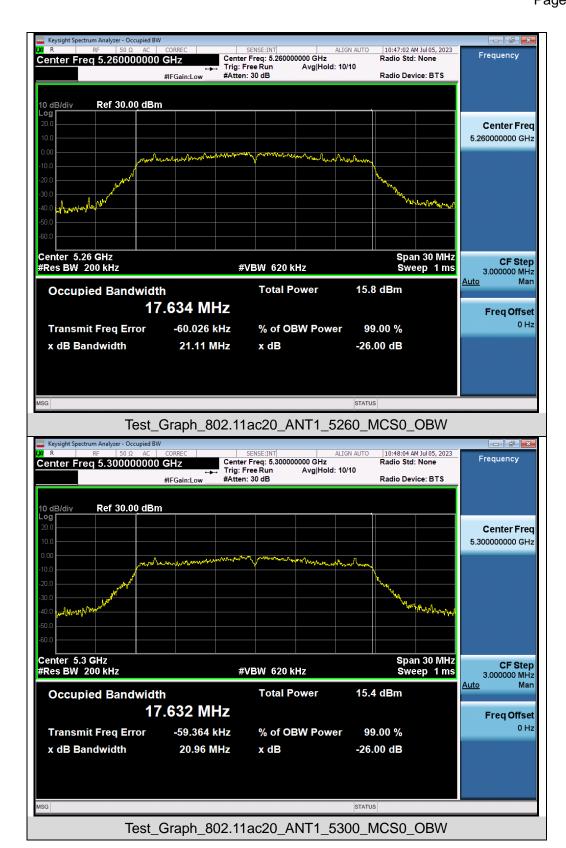


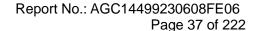




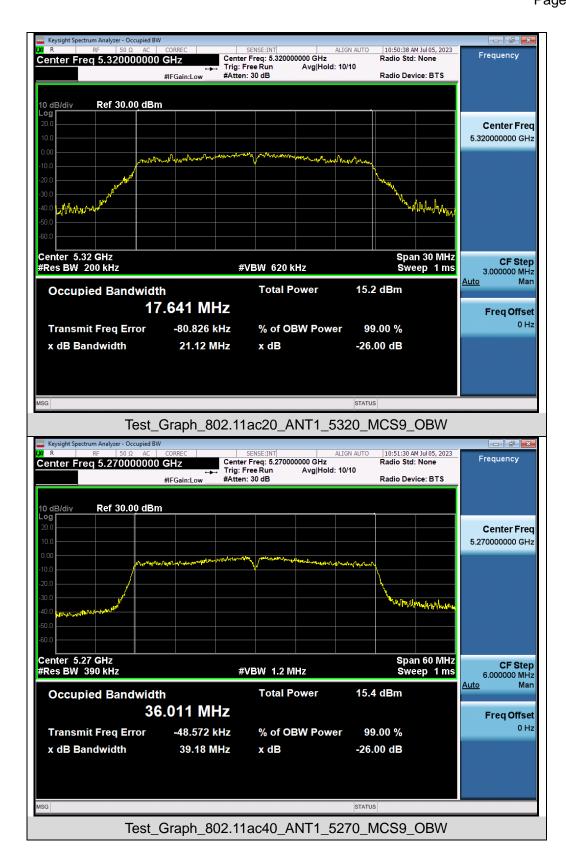


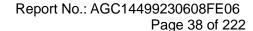




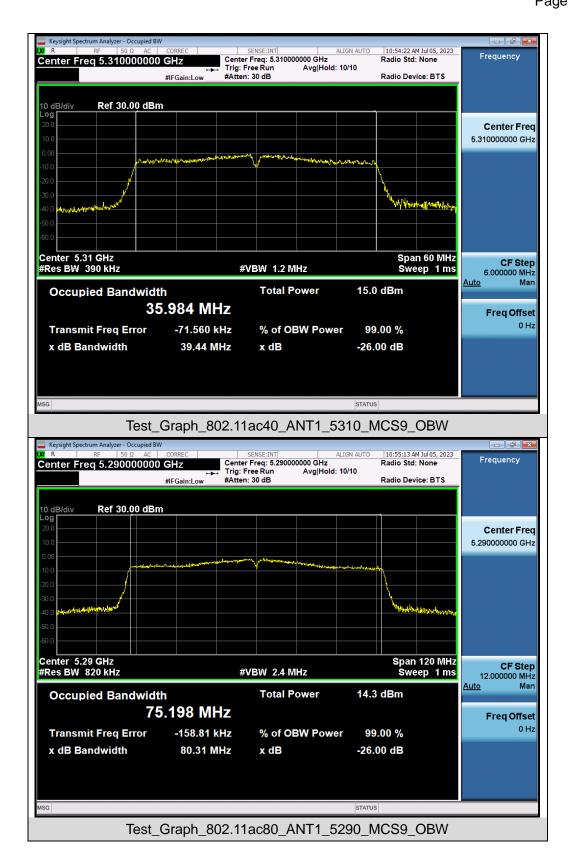


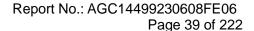






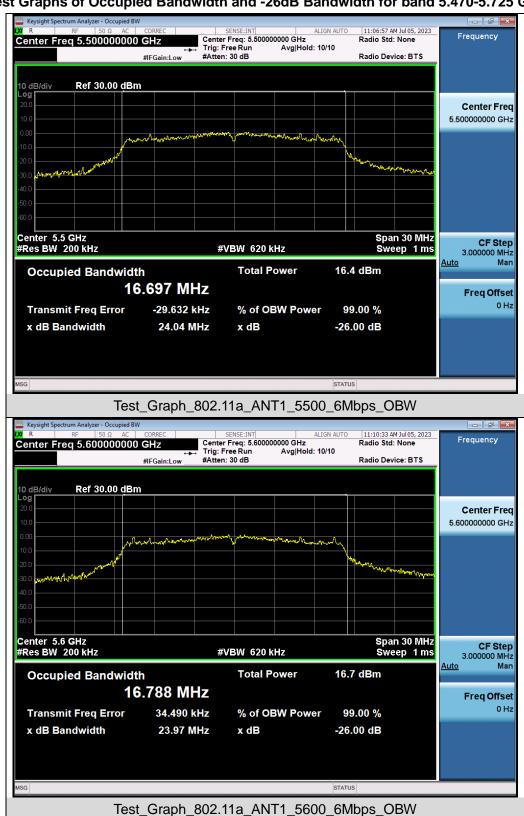


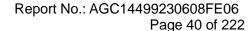




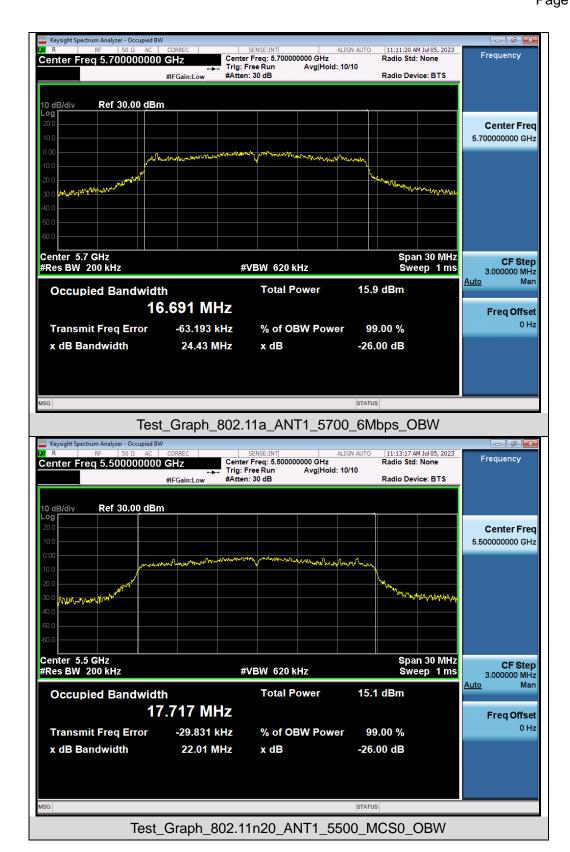


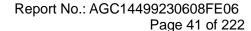
## Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.470-5.725 GHz



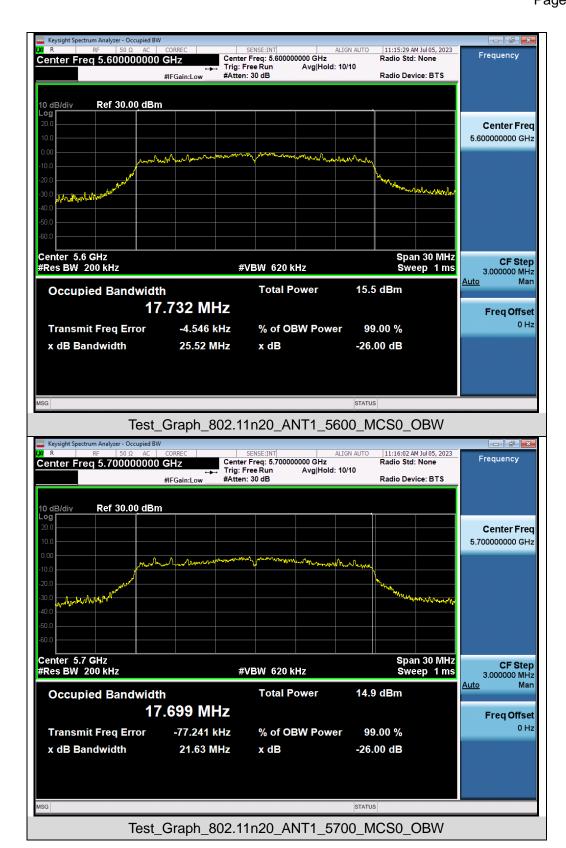


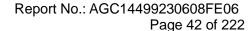




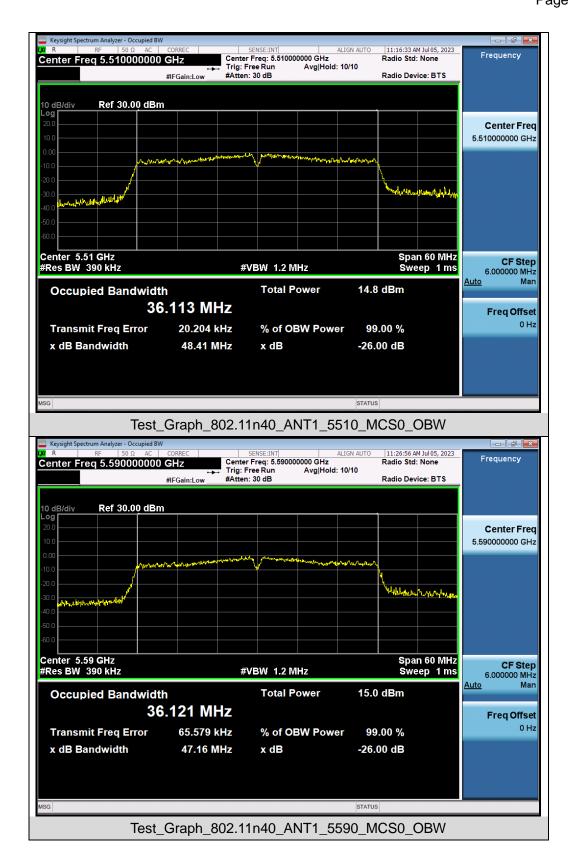


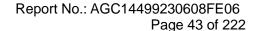




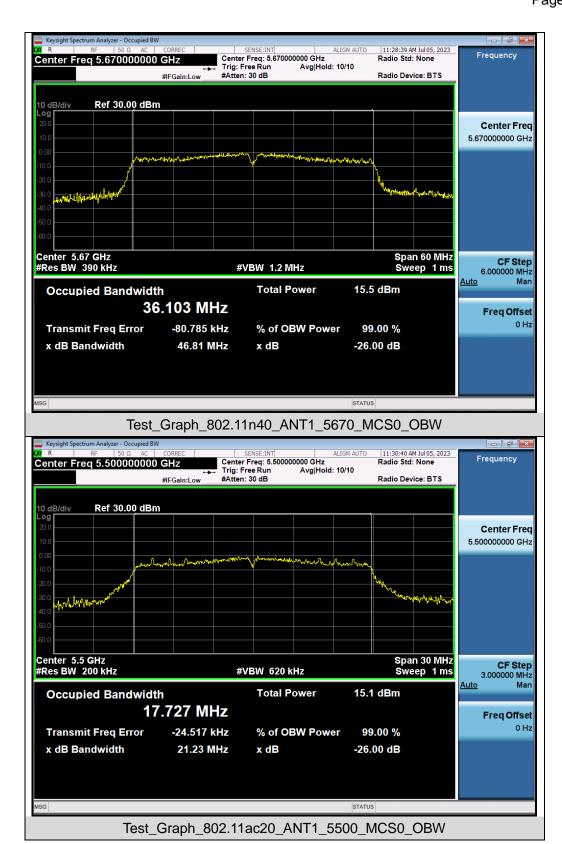


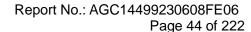




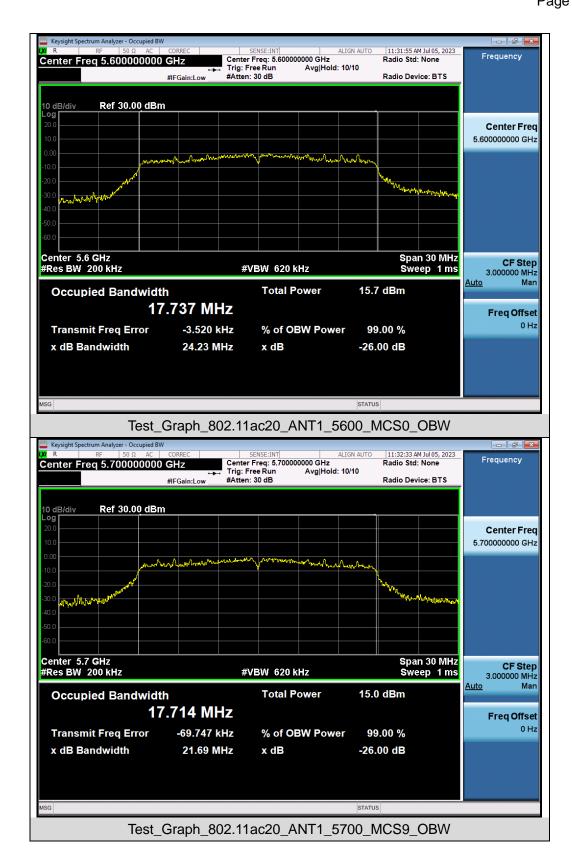


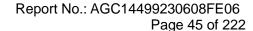




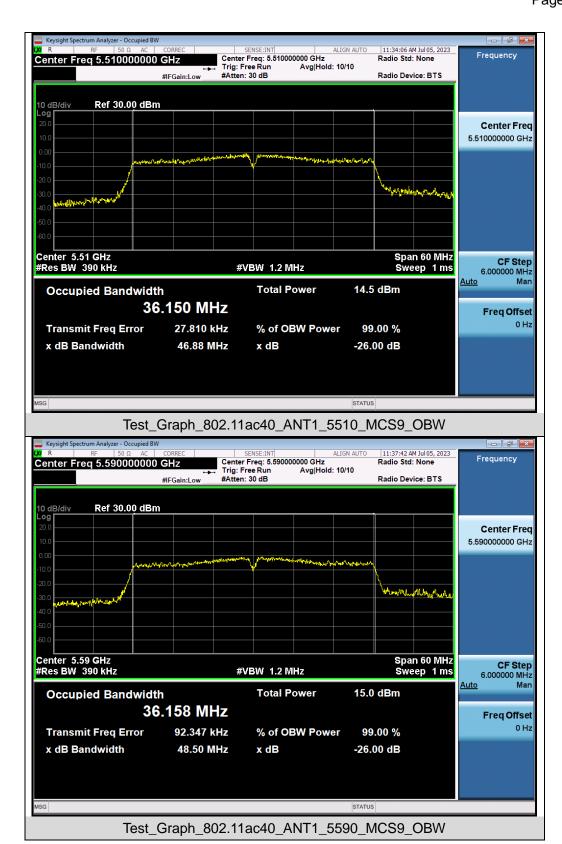


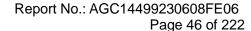




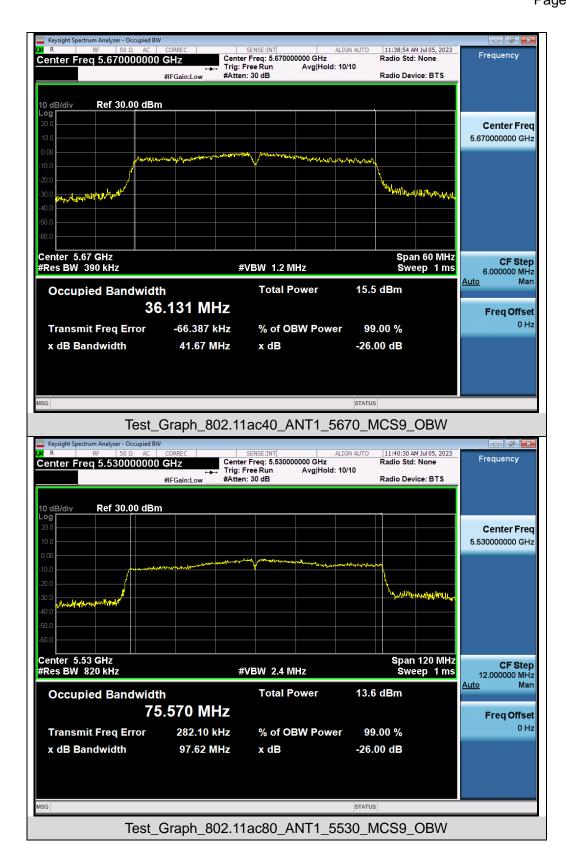


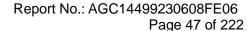




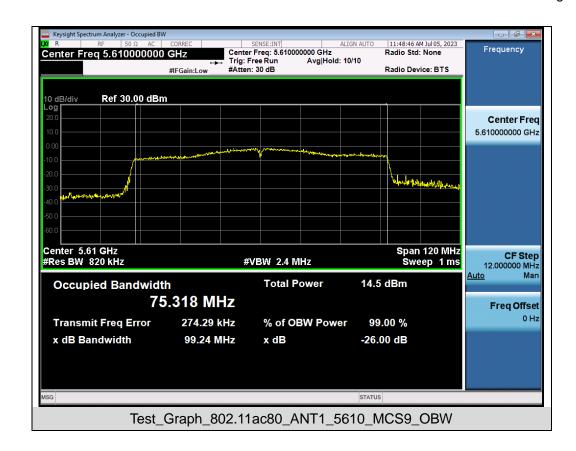


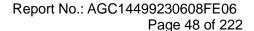






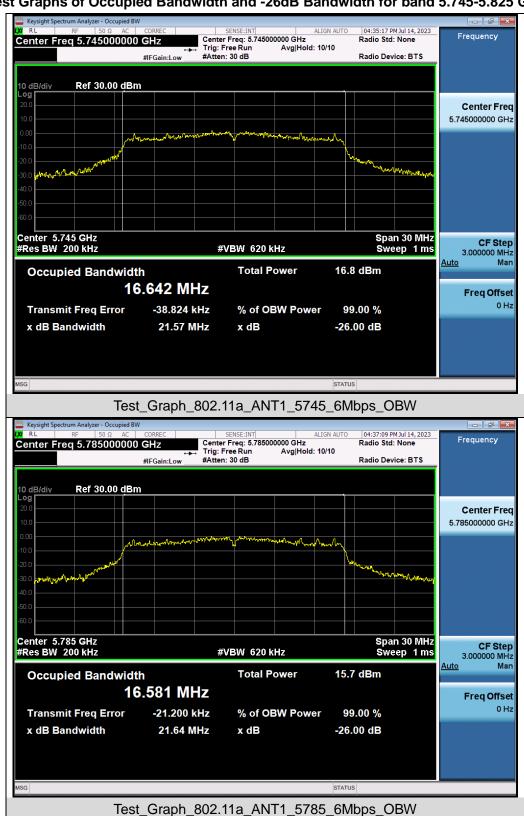


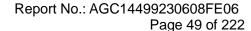




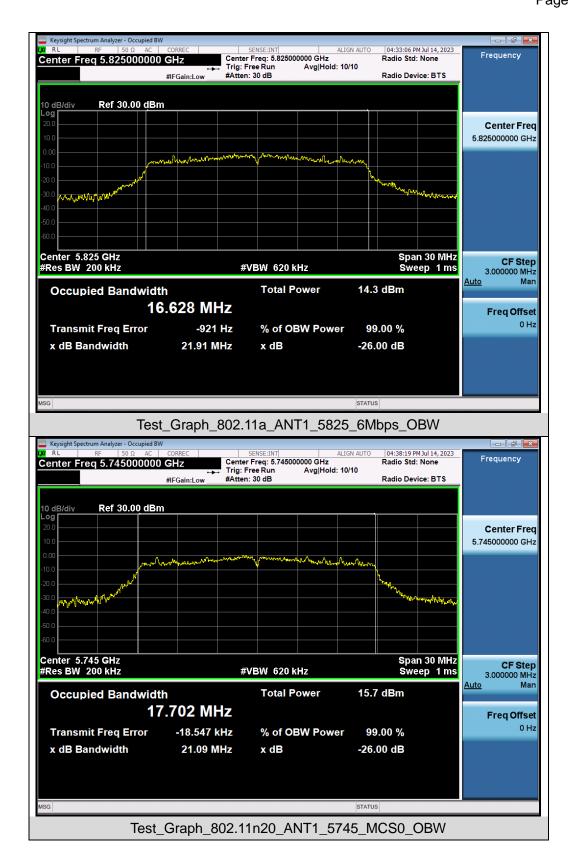


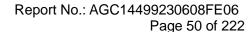
# Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.745-5.825 GHz



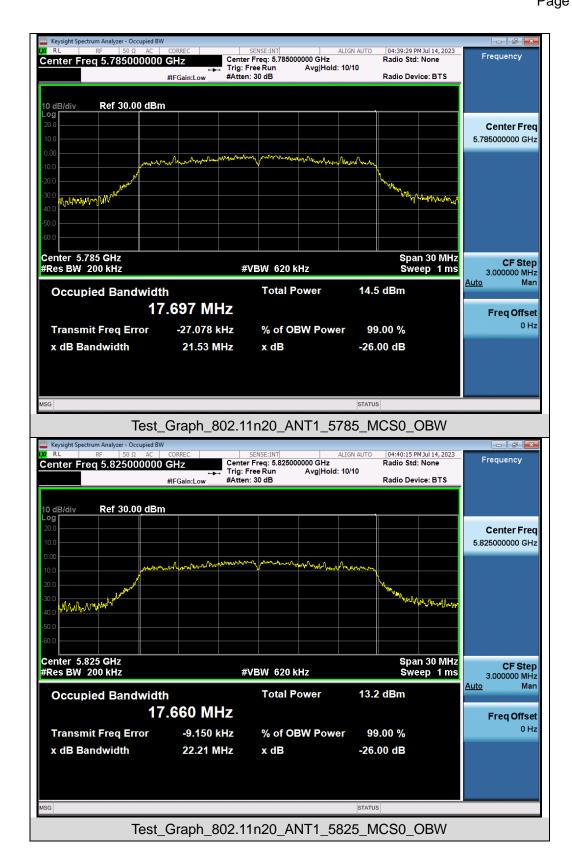


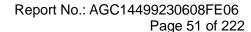




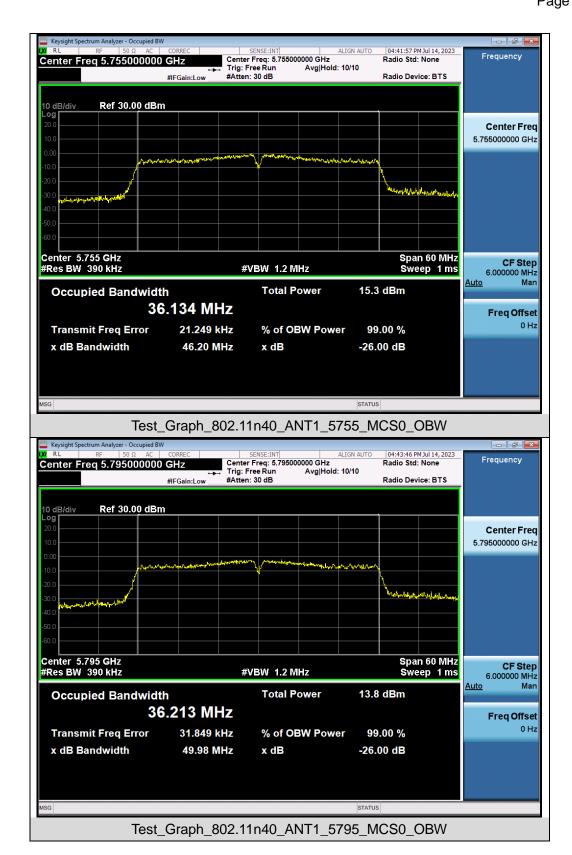


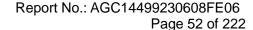




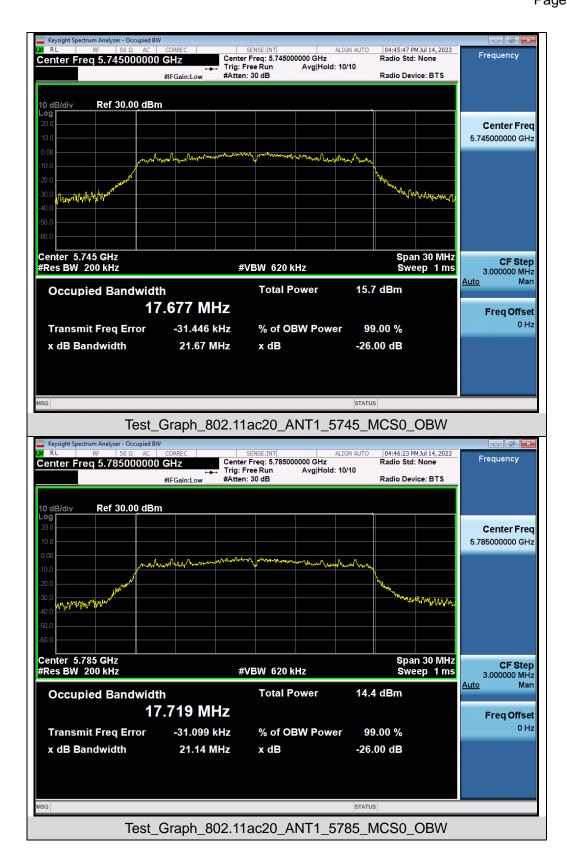


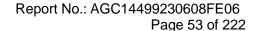




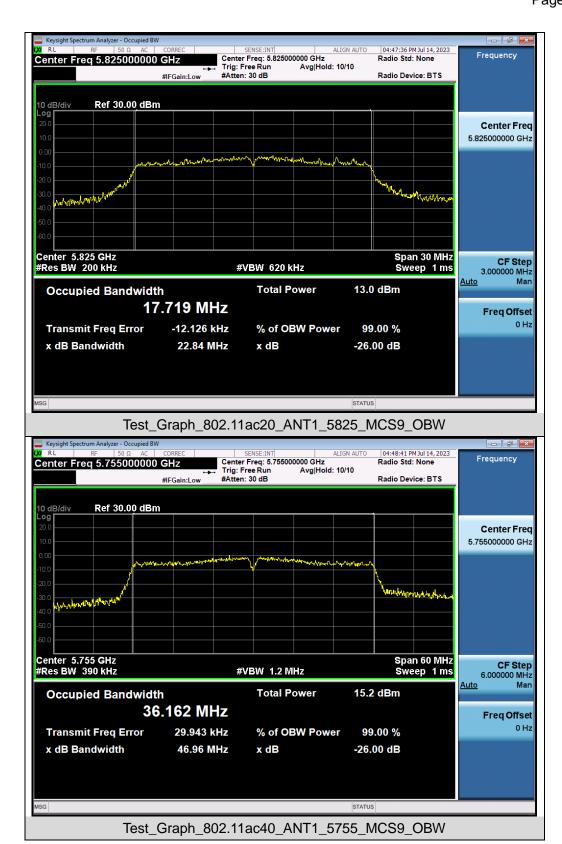


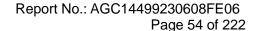




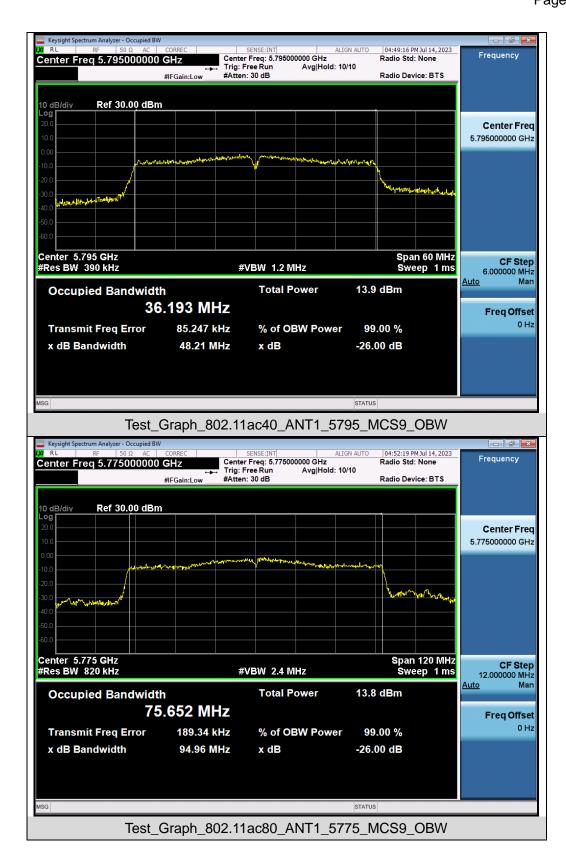


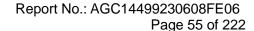






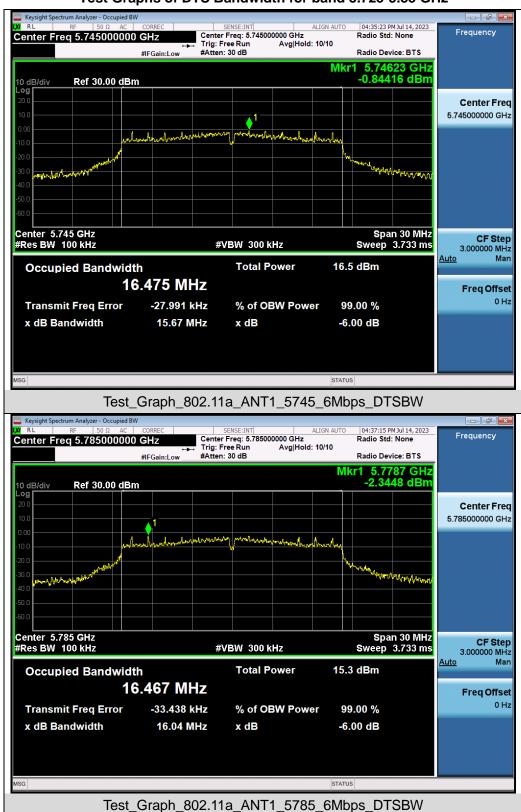


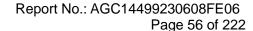




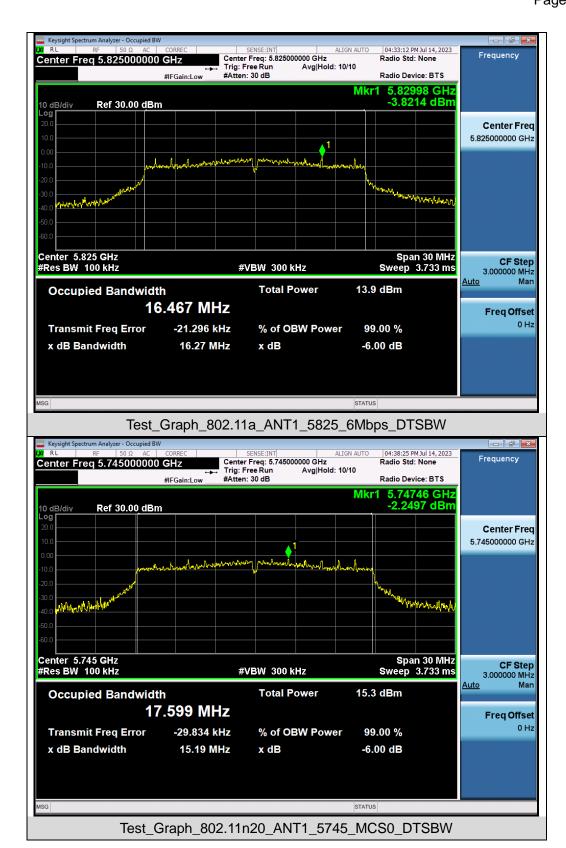


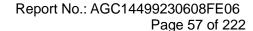
# Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



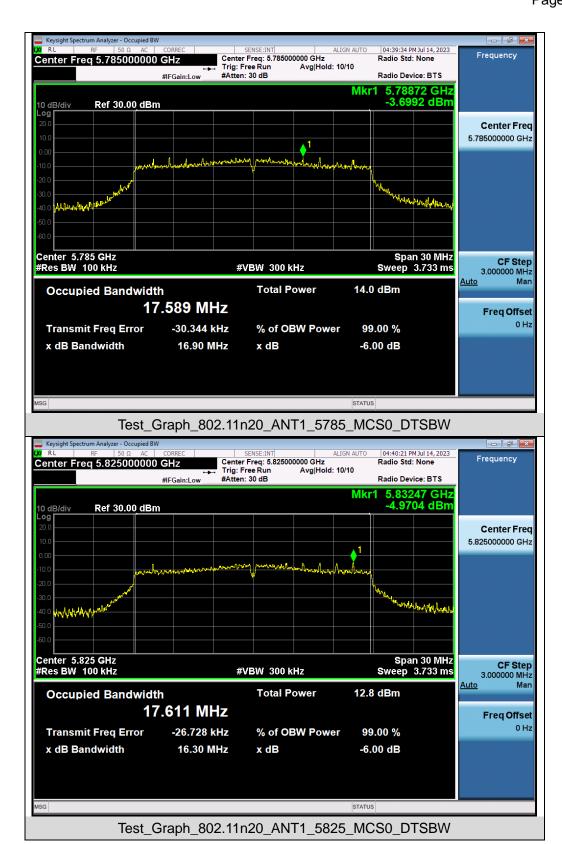


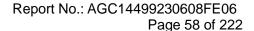




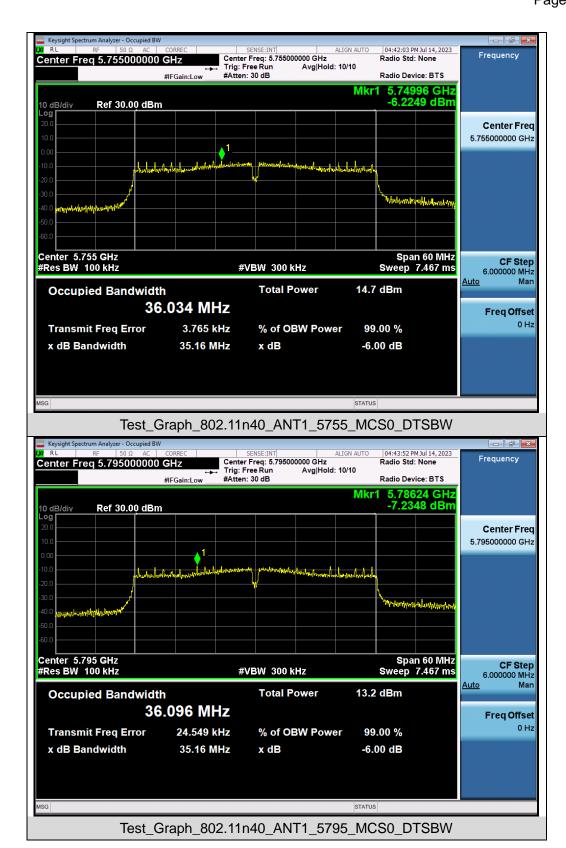


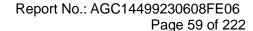






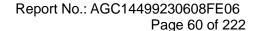




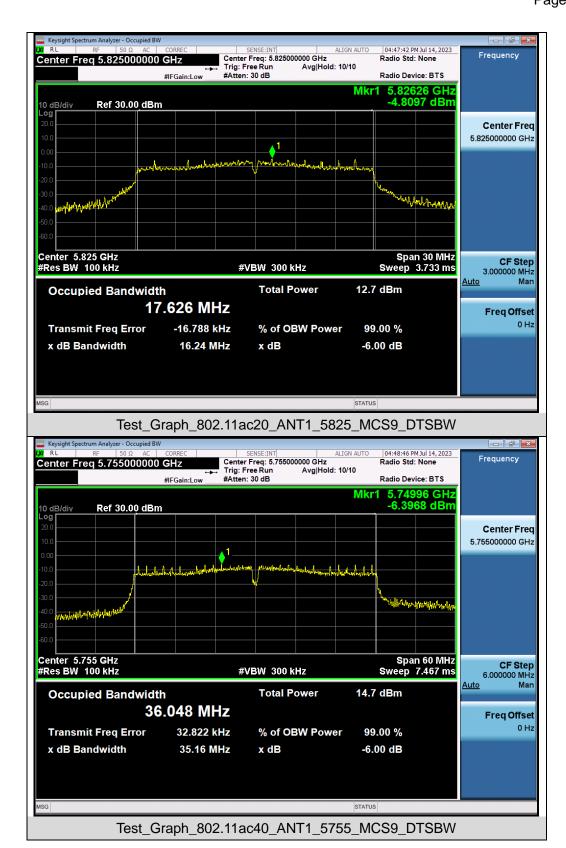


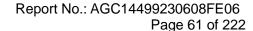




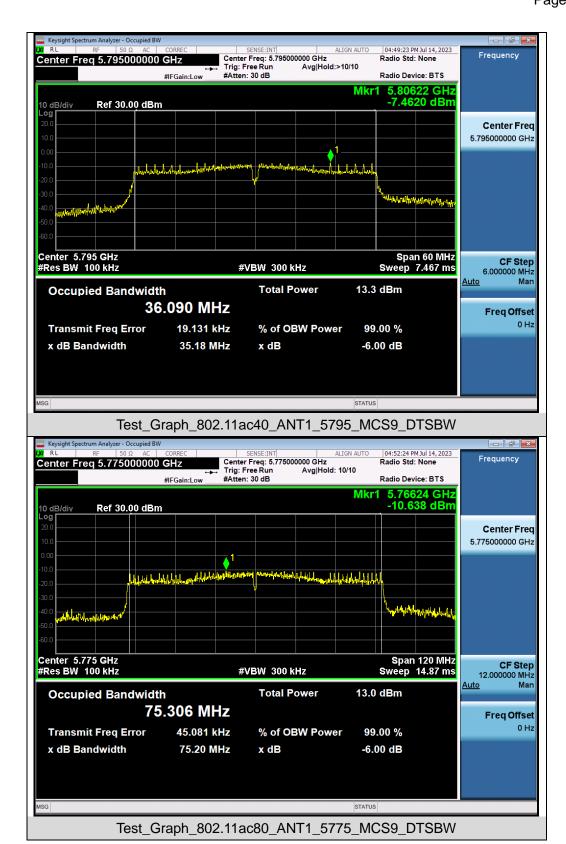


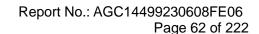














8. POWER SPECTRAL DENSITY MEASUREMENT

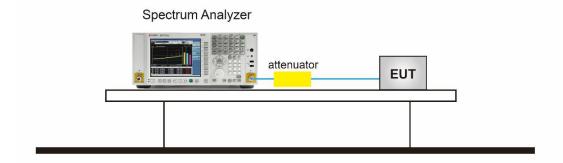
#### **8.1 MEASUREMENT LIMITS**

Operation Band	EUT Category		LIMIT	
U-NII-1		Outdoor Access Point	17dBm/ MHz	
		Fixed point-to-point Access Point	17dBm/ MHz	
		Indoor Access Point	17dBm/ MHz	
	$\square$	Client devices	11dBm/ MHz	
U-NII-2A	/		11dBm/ MHz	
U-NII-2C	/		11dBm/ MHz	
U-NII-3	/		30 dBm/500kHz	

### **8.2 MEASUREMENT PROCEDURE**

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
- 2. Span was set to encompass the entire 26dB EBW of the signal.
- 3. RBW = 1MHz.
- 4. If measurement bandwidth of Maximum PSD is specified in 500 kHz, RBW = 100KHz
- 5. Set VBW≥[3×RBW].
- 6. Sweep Time=Auto couple.
- 7. Detector function=RMS (i.e., power averaging).
- 8. Trace average at least 100 traces in power averaging (rms) mode.
- 9. When the measurement bandwidth of Maximum PSD is specified in 100 kHz, add a constant factor 10\*log(500kHz/100kHz) = 6.99 dB to the measured result.
- 10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
- 11. Add [10 log (1/D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is 25%.
- 12. Record the test results in the report.

## 8.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



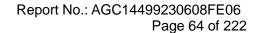


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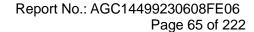
### **8.4 MEASUREMENT RESULT**

	Test Data of Conducted Output Power Density for band 5.15-5.25 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail		
	5180	2.644	11	Pass		
802.11a	5200	2.436	11	Pass		
	5240	2.377	11	Pass		
	5180	1.413	11	Pass		
802.11n20	5200	1.104	11	Pass		
	5240	0.649	11	Pass		
802.11n40	5190	-1.957	11	Pass		
002.111140	5230	-2.093	11	Pass		
	5180	1.348	11	Pass		
802.11ac20	5200	1.049	11	Pass		
	5240	0.817	11	Pass		
902 110040	5190	-1.755	11	Pass		
802.11ac40	5230	-1.957	11	Pass		
802.11ac80	5210	-4.462	11	Pass		





	Test Data of Conducted Output Power Density for band 5.25-5.35 GHz				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail	
	5260	2.144	11	Pass	
802.11a	5300	1.750	11	Pass	
	5320	1.354	11	Pass	
	5260	0.614	11	Pass	
802.11n20	5300	0.140	11	Pass	
	5320	-0.146	11	Pass	
000 11 = 10	5270	-2.442	11	Pass	
802.11n40	5310	-2.881	11	Pass	
	5260	0.524	11	Pass	
802.11ac20	5300	0.163	11	Pass	
	5320	-0.220	11	Pass	
902 44 5 40	5270	-2.463	11	Pass	
802.11ac40	5310	-2.992	11	Pass	
802.11ac80	5290	-5.482	11	Pass	





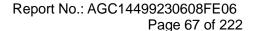
	Test Data of Conducted Output Power Density for band 5.470-5.725 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail		
	5500	1.475	11	Pass		
802.11a	5600	2.038	11	Pass		
	5700	1.307	11	Pass		
	5500	-0.102	11	Pass		
802.11n20	5600	0.081	11	Pass		
	5700	-0.385	11	Pass		
	5510	-3.135	11	Pass		
802.11n40	5590	-2.641	11	Pass		
	5670	-2.487	11	Pass		
	5500	-0.188	11	Pass		
802.11ac20	5600	0.215	11	Pass		
	5700	-0.278	11	Pass		
	5510	-3.079	11	Pass		
802.11ac40	5590	-2.844	11	Pass		
	5670	-2.335	11	Pass		
000 11 000	5530	-6.360	11	Pass		
802.11ac80	5610	-5.390	11	Pass		



Report No.: AGC14499230608FE06

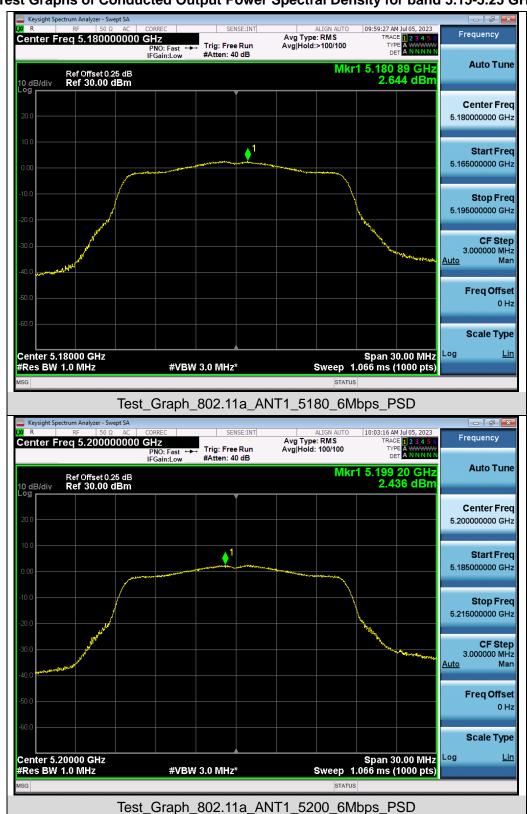
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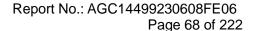
Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-6.726	0.264	30	Pass
	5785	-7.741	-0.751	30	Pass
	5825	-9.084	-2.094	30	Pass
802.11n20	5745	-8.179	-1.189	30	Pass
	5785	-9.246	-2.256	30	Pass
	5825	-10.708	-3.718	30	Pass
802.11n40	5755	-11.437	-4.447	30	Pass
	5795	-12.848	-5.858	30	Pass
802.11ac20	5745	-8.195	-1.205	30	Pass
	5785	-9.359	-2.369	30	Pass
	5825	-10.624	-3.634	30	Pass
802.11ac40	5755	-11.646	-4.656	30	Pass
	5795	-13.062	-6.072	30	Pass
802.11ac80	5775	-7.072	-0.082	30	Pass



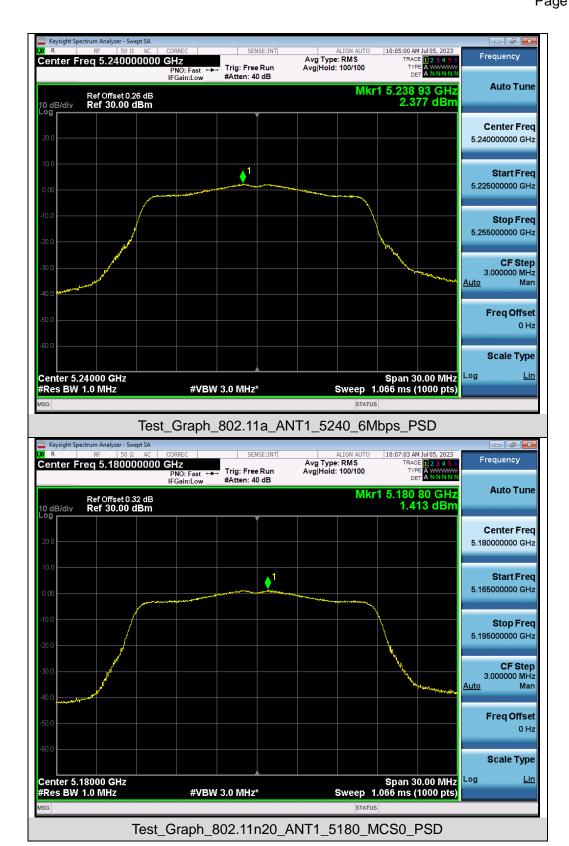


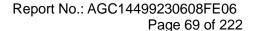
## Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz















Test Graph 802.11n20 ANT1 5240 MCS0 PSD

#VBW 3.0 MHz\*

