

RF Test Report

For

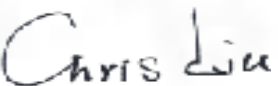
Applicant name: FOXX Development Inc.
Address: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA
EUT name: 5G Mobile Hotspot
Brand name: FOXXD, FOXX, MIRO
Model number: Q3
Series model number: N/A
FCC ID: 2AQRM-Q3

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China

Report number: BTF250916R00405
Test standards: FCC CFR Title 47 Part 2, 96
Test conclusion: Pass
Date of sample receipt: 2025-09-16
Test date: 2025-09-17 to 2026-01-04
Date of issue: 2026-01-04

Test by: 
Sean He / Tester

Prepared by: 
Chris Liu / Project engineer

Approved by: 
Ryan.C./EMC manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue date	Revisions content
R_V0	2026-01-04	Original
<i>Note:</i> <i>Once the revision has been made, then previous versions reports are invalid.</i>		

Table of Contents

1	Introduction.....	4
1.1	Laboratory Location	4
1.2	Laboratory Facility	4
1.3	Announcement.....	4
2	Product Information	5
2.1	Application Information	5
2.2	Manufacturer Information.....	5
2.3	Factory Information	5
2.4	General Description of Equipment under Test (EUT).....	5
2.5	Technical Information	5
3	Test Information	6
3.1	Test Standards.....	6
3.2	Summary of Test.....	6
3.3	Uncertainty of Test.....	7
3.4	Additions to, deviations, or exclusions from the method	7
3.5	Test Auxiliary Equipment	7
3.6	Test Equipment List	7
4	Test Configuration.....	9
4.1	Environment Condition	9
4.2	Test mode	9
4.3	Test procedure	10
4.4	Test Setup Block.....	11
5	Technical requirements specification	12
5.1	Field Strength of Spurious Radiation	12
5.2	End user device additional requirements.	13
6	Test Setup Photos	18
7	EUT Constructional Details (EUT Photos)	18

1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Description:	All measurement facilities used to collect the measurement data are located at 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

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

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

2 Product Information

2.1 Application Information

Company name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.2 Manufacturer Information

Company name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.3 Factory Information

Company name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.4 General Description of Equipment under Test (EUT)

EUT name	5G Mobile Hotspot
Under test model name	Q3
Series model name	N/A
Description of model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Rating:	Li-ion polymer Battery DC 3.7V 10000mAh 37.00Wh

2.5 Technical Information

Operation frequency:	Band N48:	Tx:3570 MHz- 3680 MHz	Rx: 3570 MHz- 3680 MHz
Modulation Type:	DFT-s-OFDM:	QPSK, PI/2 BPSK, 64 QAM, 256 QAM, 16 QAM,	
	CP-OFDM:	QPSK, 64 QAM, 256 QAM, 16 QAM	
Network Mode:	SA:	n48	
SCS Suport:	TDD:30kHz		
Antenna type:	Internal Antenna		
The Max RF Output Power (EIRP/ERP)	5G NR n48:23.00dBm		

3 Test Information

3.1 Test Standards

Identity	Document Title
FCC CFR Title 47 Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
FCC CFR Title 47 Part 96 Subpart H	Citizens Broadband Radio Service
ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards

3.2 Summary of Test

Clauses	Test Items	Result
§ 2.1046 § 96.41(b)	RF Output Power	Appendix- 5G NR
§ 96.41(d)	Peak-to-Average Power Ratio	Appendix- 5G NR
§ 2.1047	Modulation Characteristics	Appendix- 5G NR
§ 2.1049	26dB Emission Bandwidth 99% Occupied Bandwidth	Appendix- 5G NR
§ 2.1051 § 96.41(e) 1.ii	Out of Band Emission at Antenna Terminals	Appendix- 5G NR
§ 2.1053 § 96.41(e) 1.ii	Field Strength of Spurious Radiation	Appendix- 5G NR
§ 2.1055	Frequency Stability	Appendix- 5G NR
Remark: 1. Pass: met the requirements. 2. N/A: not applicable.		

3.3 Uncertainty of Test

Measurement	Value
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Supply voltages	±3 %
Time	±5 %
Conducted Emission for LISN (9kHz ~ 150kHz)	±2.97 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.45 dB
Radiated Emission (30MHz ~ 1000MHz)	±4.80 dB
Radiated Emission (1GHz ~ 18GHz)	±4.82 dB
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3.4 Additions to, deviations, or exclusions from the method

None

3.5 Test Auxiliary Equipment

The EUT has been tested as an independent unit.

3.6 Test Equipment List

Radiated test method					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESC17	101032	2024/10/25	2025/10/24
Signal Analyzer	Rohde & Schwarz	FSQ40	100010	2024/10/25	2025/10/24
Log periodic antenna	Schwarzbeck	VULB 9168	01328	2024/10/28	2025/10/27
Preamplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9744	00246	2025-10-17	2026-10-16
Horn Antenna	Schwarzbeck	BBHA9120D	2597	2024/10/30	2025/10/29
Preamplifier (1GHz ~ 18GHz)	Schwarzbeck	BBV9718D	00008	2025-10-17	2026-10-16
Wireless communication test platform	Anritsu	MT8000A	6262208369	2025/03/21	2026/03/20
Radio communication analyzer	Anritsu	MT8821C	6262192286	2025/03/21	2026/03/20
Test Software	Frad	EZ_EMG	Version: FA-03A2 RE+		

Conducted test method					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020A	MY50410020	2024/10/25	2025/10/24
ESG Vector Signal Generator	Agilent	E4438C	MY45094854	2024/10/25	2025/10/24
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2024/10/25	2025/10/24
Wireless communication test platform	Anritsu	MT8000A	6262208369	2025/03/21	2026/03/20
Radio communication analyzer	Anritsu	MT8821C	6262192286	2025/03/21	2026/03/20
Temperature Humidity Chamber	ZZCKONG	ZZ-K02A	20210928007	2024/10/25	2025/10/24
DC Power Supply	Tongmen	etm-6050c	20211026123	2024/10/25	2025/10/24
RF Control Unit	Techy	TR1029-1	/	2024/10/25	2025/10/24
RF Sensor Unit	Techy	TR1029-2	/	2024/10/25	2025/10/24
Test Software	TST Pass	/	Version: 2.0		

4 Test Configuration

4.1 Environment Condition

Selected Values During Tests		
Temperature	Relative Humidity	Ambient Pressure
Normal: +15°C to +35°C Extreme: -30°C to +50°C	20% to 75%	86 kPa to 106 kPa

4.2 Test mode

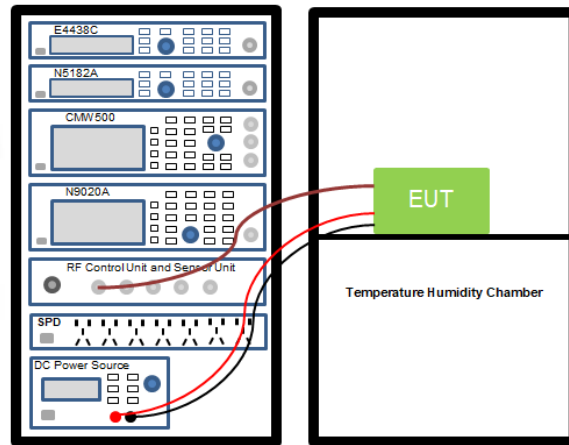
QPSK mode:	Keep the EUT communication with simulated station in QPSK mode
16QAM mode:	Keep the EUT communication with simulated station in 16QAM mode
64QAM mode:	Keep the EUT communication with simulated station in 64QAM mode
256QAM mode	Keep the EUT communication with simulated station in 256QAM mode
Remark: Per-scan all kind of data rate, and report only reflects the test data of worst data rate mode.	

4.3 Test procedure

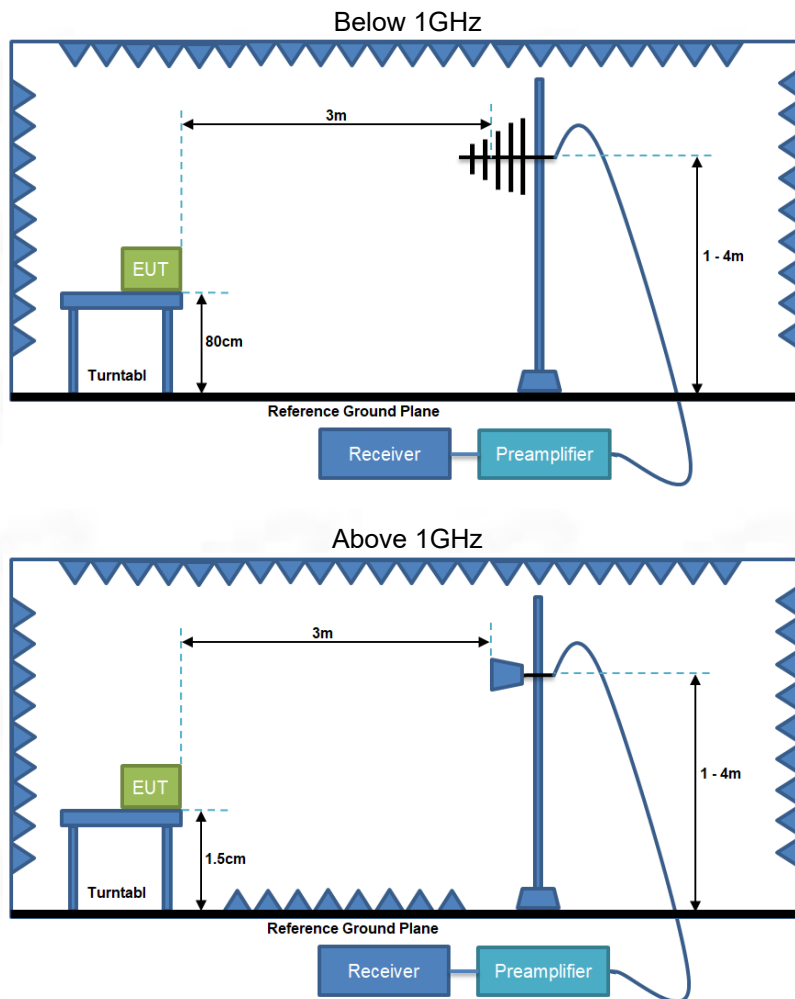
Radiated test method
For below 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method
1. The 5G NR antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

4.4 Test Setup Block

1) Conducted test method:



2) Radiated test method:



5 Technical requirements specification

5.1 Field Strength of Spurious Radiation

Temperature	22.5°C	Humidity	56%
Test voltage	DC 3.7V	Test Engineer	Sean He

Band N48, 10MHz Bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
7150.02	-58.9	11.28	-47.62	-40.00	-7.62	Vertical
10725.03	-62.9	16.34	-46.56	-40.00	-6.56	Horizontal
14300.04	-67.16	21.27	-45.89	-40.00	-5.89	Vertical
7150.02	-62.9	11.28	-51.62	-40.00	-11.62	Horizontal
10725.03	-63.14	16.34	-46.8	-40.00	-6.8	Vertical
14300.04	-66.52	21.27	-45.25	-40.00	-5.25	Horizontal
Middle channel						
7249.98	-62.11	11.61	-50.5	-40.00	-10.5	Vertical
10874.97	-62.11	16.38	-45.73	-40.00	-5.73	Horizontal
14499.96	-65.37	21.00	-44.37	-40.00	-4.37	Vertical
7249.98	-63.16	11.61	-51.55	-40.00	-11.55	Horizontal
10874.97	-63.65	16.38	-47.27	-40.00	-7.27	Vertical
14499.96	-65.03	21.00	-44.03	-40.00	-4.03	Horizontal
Highest channel						
7350	-62.36	11.96	-50.4	-40.00	-10.4	Vertical
11025	-61.36	16.49	-44.87	-40.00	-4.87	Horizontal
14700	-63.62	21.5	-42.12	-40.00	-2.12	Vertical
7350	-63.9	11.96	-51.94	-40.00	-11.94	Horizontal
11025	-64	16.49	-47.51	-40.00	-7.51	Vertical
14700	-65.38	21.5	-43.88	-40.00	-3.88	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

5.2 End user device additional requirements.

5.2.1 TEST REQUIREMENT

FCC Part 96.47

- (a) End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.
- (b) An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD

5.2.2 TEST PROCEDURE AND EUT CONFIGURATION

KDB 940660 D01 Part 96 CBRS v03, WINNF-TS-0122 V1.0.2

Additional requirements are required to End-User Device n48 device base on CBSD protocol. During the test, the EUT and its companion certified CBSD (FCC ID: P27-SCE4255W) device communicate with each other via air. Plots are captured and measurements are done over the air, in which the path loss is not accounted for the correction of the output power.

Configuration 1

- a) Setup CBSD with 3670MHz and power level 15 dBm/MHz
- b) Enable B48 service from CBSD admin control panel
- c) Check EUT Transmitter Frequency and power
- d) Disable B48 service from CBSD admin control panel and check EUT stop transmission within 10s

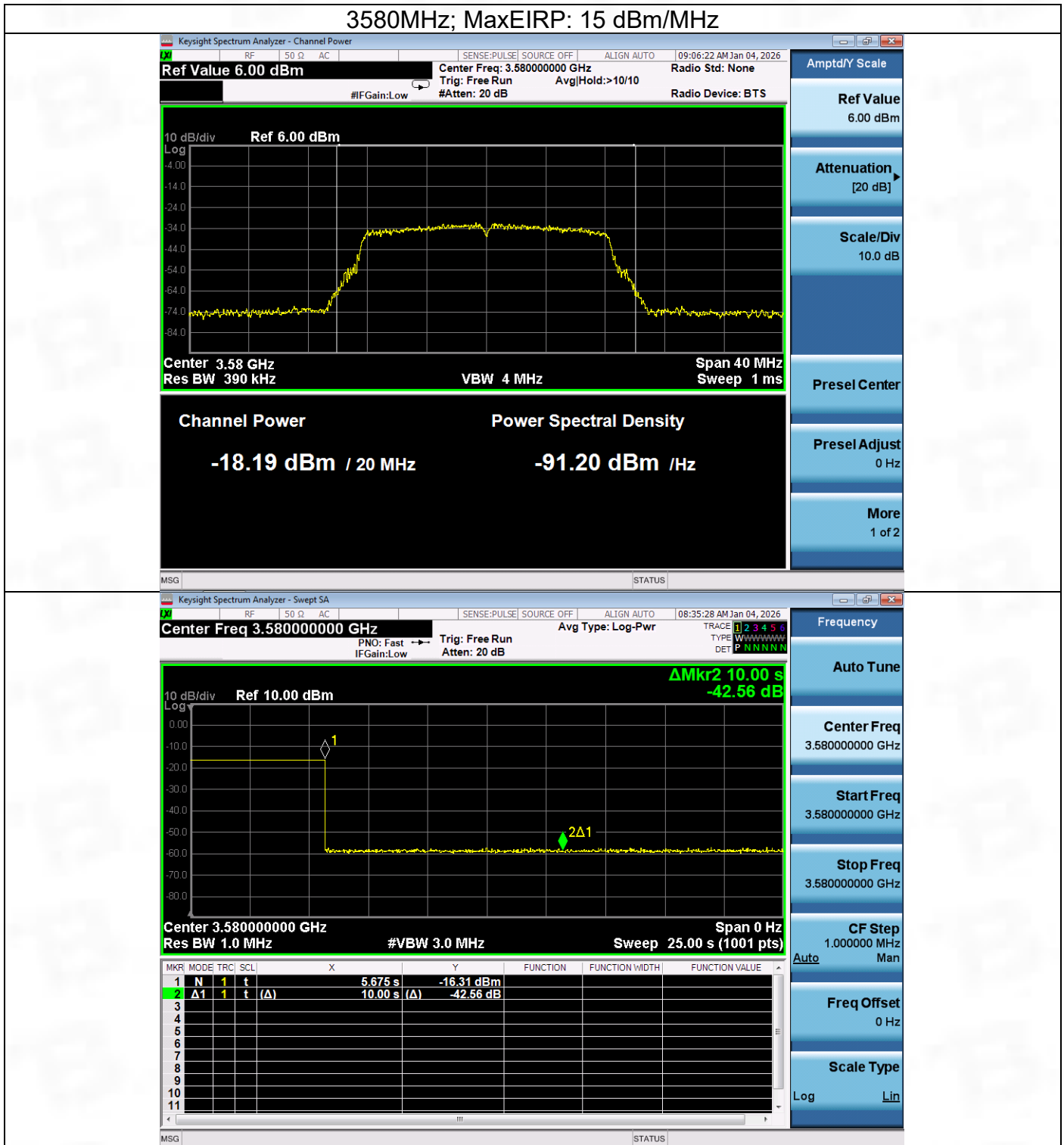
Configuration 2

- a) Setup CBSD with 3690MHz and power level 10 dBm/MHz
- b) Enable B48 service from Airspan admin control panel
- c) Check EUT Transmitter Frequency and power
- d) Disable B48 service from CBSD admin control panel and check EUT stop transmission within 10s.

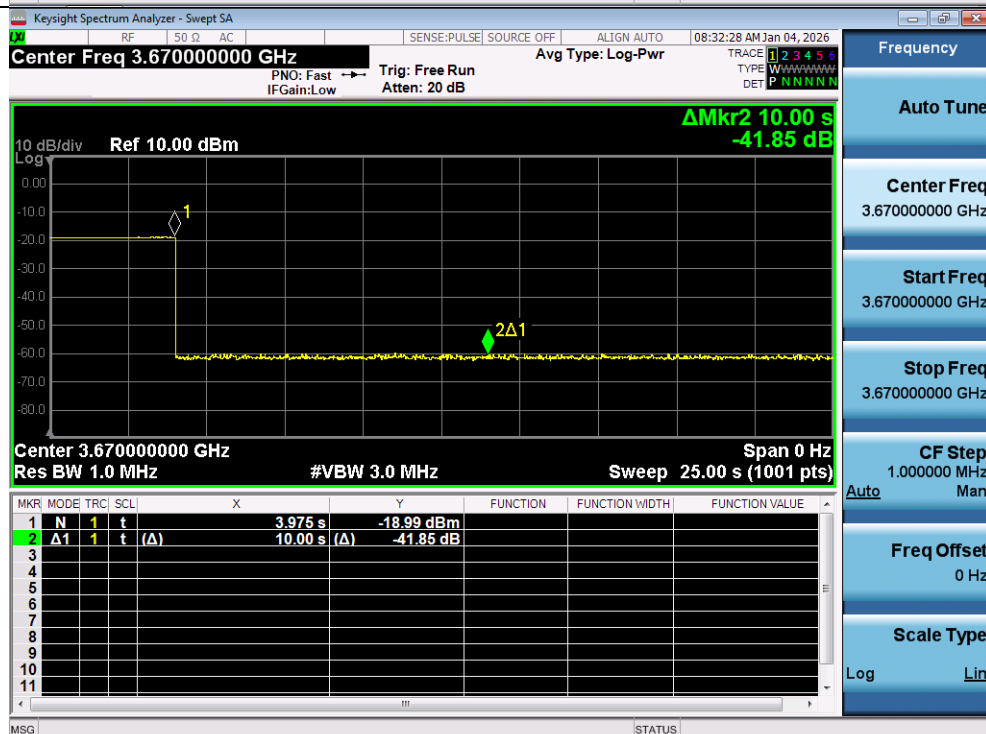
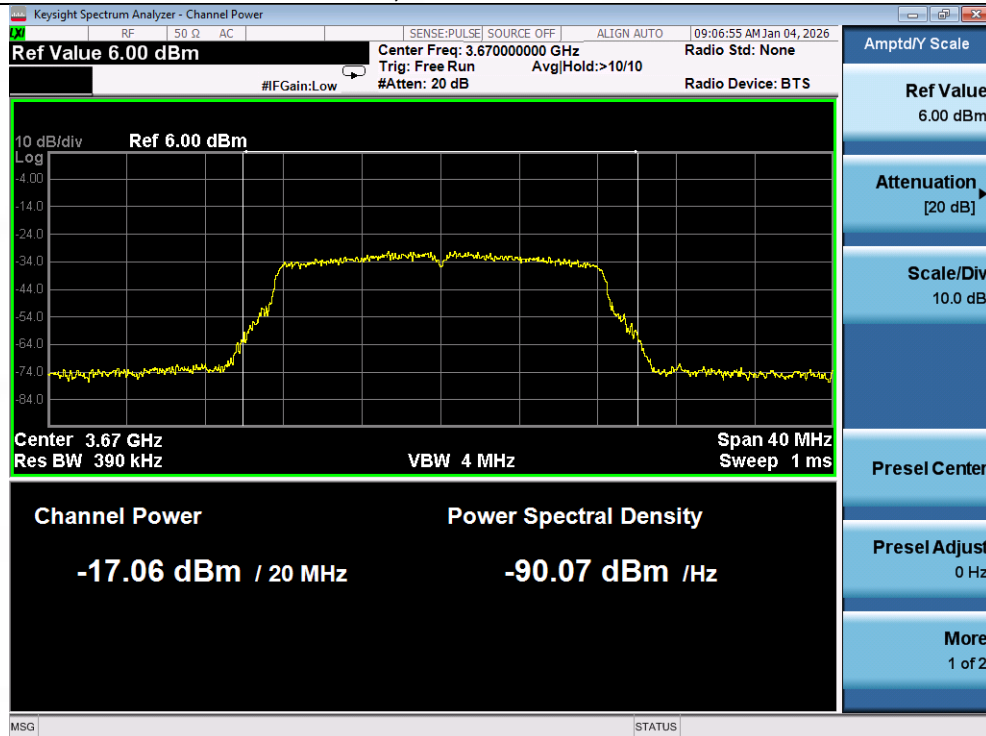
5.2.3 TEST RESULTS

END USER DEVICE CONFIGURATION 1

3580MHz; MaxEIRP: 15 dBm/MHz

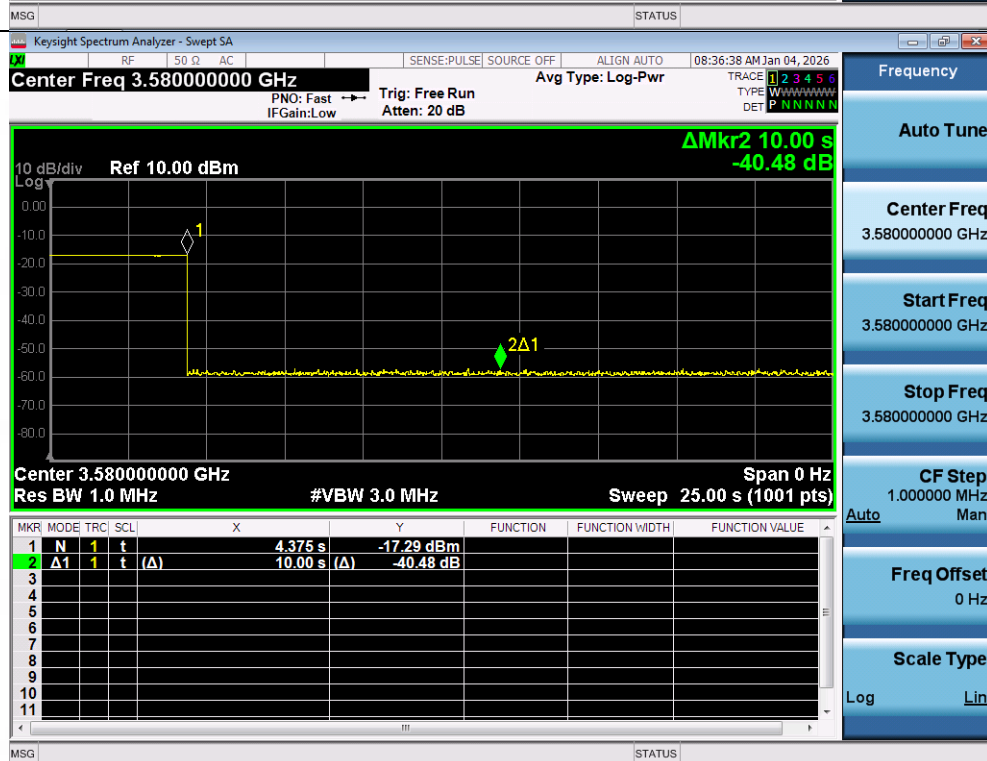
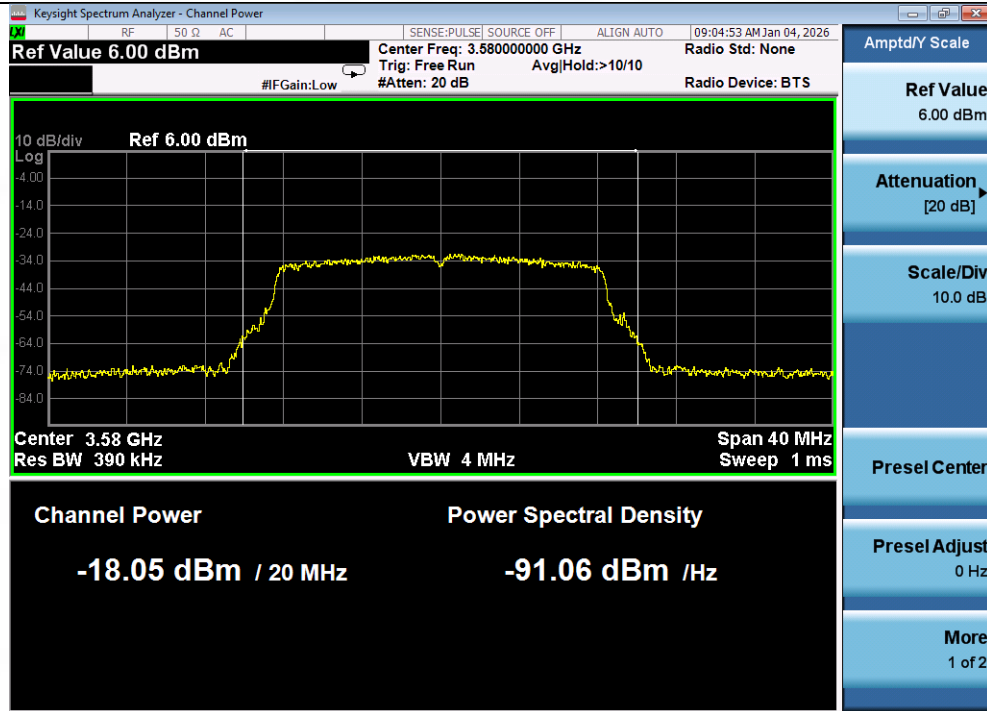


3670MHz; MaxEIRP: 15 dBm/MHz

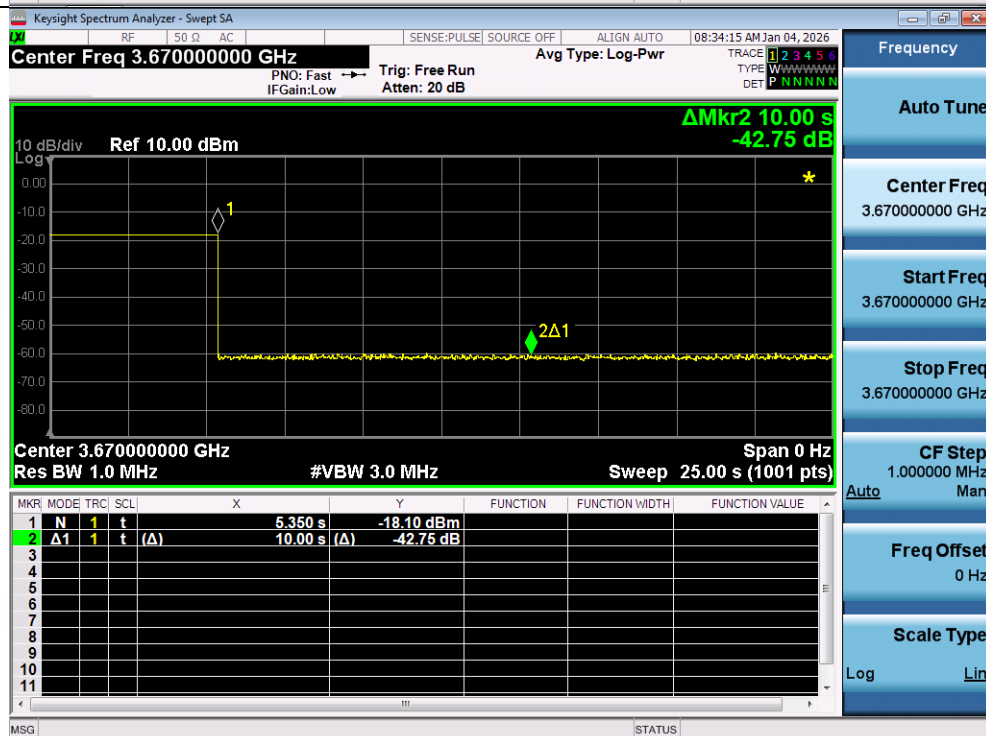
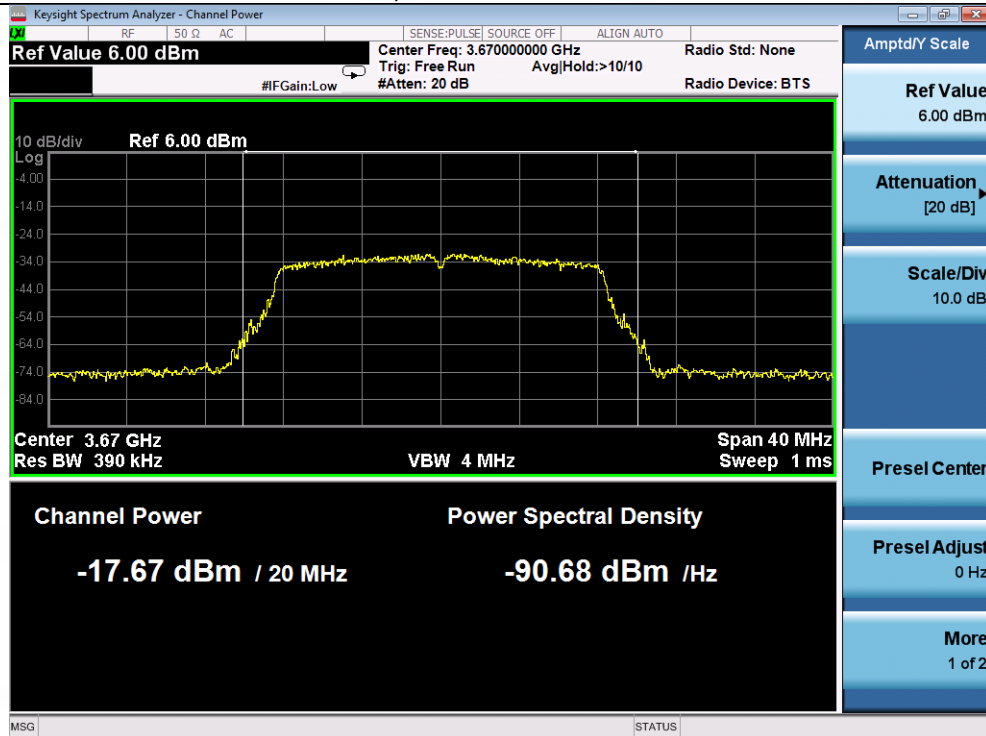


END USER DEVICE CONFIGURATION 2

3580MHz; MaxEIRP: 10 dBm/MHz



3670MHz; MaxEIRP: 10 dBm/MHz



6 Test Setup Photos

Please refer to the Appendix I Test Setup Photos

7 EUT Constructional Details (EUT Photos)

Please refer to the Appendix II External Photos & Appendix III External Photos



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