

**FCC PART 96.47 CBSD-EUD TEST
REPORT**

FCC Applicant: ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

FCC Manufacturer: ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Product Name: ASUS Phone(Mobile Phone)

Brand Name: ASUS

Model No.: ASUSAI2501E

Family Model No. ASUSAI2501D

Model Difference: Refer to section1.2

Report Number: TERF2407002106ER

FCC ID MSQAI2501

Date of EUT Received: July 01, 2024

Date of Test: July 17, 2024 ~ November 13, 2024

Issue Date: November 15, 2024

Approved By _____

Marcus Tseng**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2 , 96.47.

The results of this report relate only to the sample identified in this report.

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| Revision History | | | | | |
|------------------|----------|-------------|-------------------|------------|--------|
| Report Number | Revision | Description | Issue Date | Revised By | Remark |
| TERF2407002106ER | 00 | Original | November 15, 2024 | Yuri Tsai | |
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Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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Contents

| | |
|--------------------------------------|---|
| 1. GENERAL PRODUCT INFORMATION | 4 |
| 2. SUMMARY OF TEST RESULTS | 8 |
| 3. MEASUREMENT..... | 9 |

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

| | |
|------------------------------|--------------------------|
| Product Name: | ASUS Phone(Mobile Phone) |
| Brand Name: | ASUS |
| Model No.: | ASUSAI2501E |
| Family Model No. | ASUSAI2501D |
| Hardware Version: | R2.0C |
| Firmware Version: | 35.1400.1400.10 |
| EUT Series No.: | S7AIOCN13359SCN |
| Power Supply: | 7.8 Vdc from Battery |
| Test Software (Name/Version) | Conncet with callbox |

1.2. Model Difference

| Model Name | ASUSAI2501D | ASUSAI2501E |
|---------------|------------------------|--------------------|
| 3rd Camera | 5MP Macro | 32 MP Tele |
| LED Light | mini LED (85 pcs) | mini LED (648 pcs) |
| Memory | 12/256, 12/512, 16/512 | 16/512, 24/1TB |
| Side USB port | Y | |
| Air trigger | Y | |
| Power | 5800mAh, 65W | |
| Refresh Rate | 185Hz | |

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1.3. Antenna Designation

| Antenna Type | Antenna Model No. |
|---|-------------------|
| PIFA | Ant6 |
| | Ant7 |
| | Ant8 |
| | Ant9 |
| Note: Transmission frequencies in this test report are only available by the above antenna(s). | |

| Type | Modulation | Frequency (MHz) | Peak Antenna Gain (dBi) | | | |
|------|-------------|-----------------|-------------------------|-------|------|------|
| | | | Ant6 | Ant7 | Ant8 | Ant9 |
| PIFA | LTE-Band 48 | 3550 ~ 3700 | -2.0 | -0.94 | 0.2 | -0.6 |

Note: Antenna information is provided by the applicant.

1.4. Operation Frequencies

| LTE Band | BW (MHz) | Operation Frequency (MHz) |
|----------|----------|---------------------------|
| 48 | 5 | 3552.5 - 3697.5 |
| | 10 | 3555.0 - 3695.0 |
| | 15 | 3557.5 - 3692.5 |
| | 20 | 3560.0 - 3690.0 |

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1.5. Maximum ERP/EIRP

| LTE Band | BW | Frequency | | Modulation | ERP / EIRP (dBm/10MHz) | | (W) | 99% | Type of Emission |
|----------|----|-----------|--------|------------|------------------------|------|--------------|---------|------------------|
| | | | | | | | | | |
| 48 | 5 | 3552.5 | 3697.5 | QPSK | 22.59 | EIRP | 0.182 | 4.5046 | 4M50G7D |
| | | | | 16QAM | 21.72 | EIRP | 0.149 | 4.5083 | 4M51D7W |
| | | | | 64QAM | 20.80 | EIRP | 0.120 | 4.4958 | 4M50D7W |
| | | | | 256QAM | 17.76 | EIRP | 0.060 | 4.5023 | 4M50D7W |
| 48 | 10 | 3555.0 | 3695.0 | QPSK | 22.61 | EIRP | 0.182 | 9.0008 | 9M00G7D |
| | | | | 16QAM | 21.92 | EIRP | 0.156 | 8.9711 | 8M97D7W |
| | | | | 64QAM | 20.82 | EIRP | 0.121 | 8.9748 | 8M97D7W |
| | | | | 256QAM | 17.61 | EIRP | 0.058 | 8.9721 | 8M97D7W |
| 48 | 15 | 3557.5 | 3692.5 | QPSK | 22.54 | EIRP | 0.179 | 13.4660 | 13M5G7D |
| | | | | 16QAM | 21.67 | EIRP | 0.147 | 13.4740 | 13M5D7W |
| | | | | 64QAM | 20.81 | EIRP | 0.121 | 13.4470 | 13M4D7W |
| | | | | 256QAM | 17.61 | EIRP | 0.058 | 13.4520 | 13M5D7W |
| 48 | 20 | 3560.0 | 3690.0 | QPSK | 22.44 | EIRP | 0.175 | 17.9090 | 17M9G7D |
| | | | | 16QAM | 21.76 | EIRP | 0.150 | 17.9800 | 18M0D7W |
| | | | | 64QAM | 20.70 | EIRP | 0.117 | 17.9640 | 18M0D7W |
| | | | | 256QAM | 18.19 | EIRP | 0.066 | 17.9620 | 18M0D7W |

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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

1.6. Test Methodology of Applied Standards

FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt V02

1.7. Test Facility

| Laboratory | Test Site Address | Test Site Name | FCC Designation number | IC CAB identifier |
|---|---|----------------|------------------------|-------------------|
| SGS Taiwan Ltd. Central RF Lab. (TAF code 3702) | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1 | TW0027 | TW3702 |
| | | SAC 2 | | |
| | | SAC 3 | | |
| | | Conduction 1 | | |
| | | Conducted 1 | | |
| | | Conducted 2 | | |
| | | Conducted 3 | | |
| | | Conducted 4 | | |
| | | Conducted 5 | | |
| | Conducted 6 | | | |
| | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 | Conduction C | TW0028 | |
| | | SAC C | | |
| | | SAC D | | |
| | | SAC G | | |
| | | Conducted A | | |
| | | Conducted B | | |
| | | Conducted C | | |
| | | Conducted D | | |
| | | Conducted E | | |
| Conducted F | | | | |
| Conducted G | | | | |

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.8. Special Accessories

No special accessories were used during testing.

1.9. Equipment Modifications

There was no modifications incorporated into the EUT.

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2. SUMMARY OF TEST RESULTS

2.1. Summary of test results

| FCC Rules | Description Of Test | Result |
|---------------|---|-----------|
| §96.47(a) (1) | End User Device additional requirements | Compliant |

2.2. Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

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3. MEASUREMENT

3.1. End User Device additional requirements

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.

(1) 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.

3.2. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

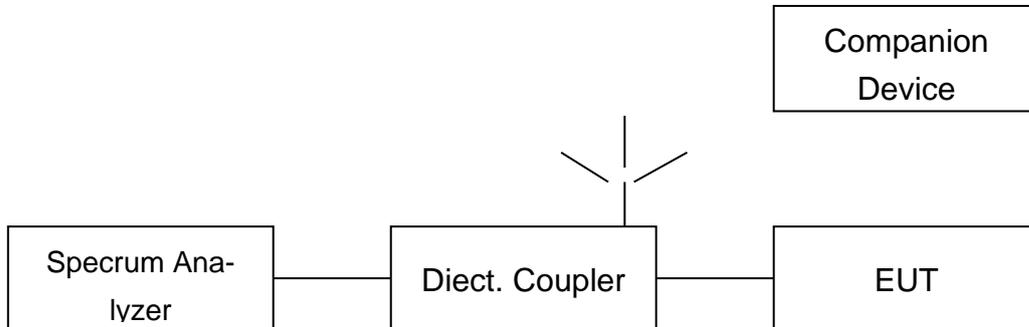
1. Setup with frequency 3560MHz and power level 22dBm/MHz
2. Enable AP service from EPC management
3. Check EUD Tx Frequency and power
4. Disable AP service from EPC management
 - a. Check EUD stops transmission within 10seconds.
5. Setup with 3690MHz & power level 3dBm/MHz
6. Enable AP service from EPC management
7. Check EUD Tx Frequency and power
8. Disable AP service from EPC management
 - a. Check EUD stops transmission within 10seconds.

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3.3. Test Configuration of Equipment Under Test:

Connection Diagram of Test System



The EUT is an End User Device (EUD) which was connected to a certified Gemtek CBSD (FCC ID: MXF-WLTGFC105 and qualified by WInnForum) as the companion device to show compliance with Part 96.47 requirement.

3.4. Measurement Equipment Used

| Conducted Emission Test Site: Conducted 3 | | | | | |
|---|---------------|---------------|---------------------------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| DC Block | Mini-Circuits | BLK-18-S+ | 14 | 12/12/2023 | 12/11/2024 |
| Manual Attenuator | KEYSIGHT | 9494B+9496B | TH61352679+TH61353574 | 12/12/2023 | 12/11/2024 |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY57120290 | 04/10/2024 | 04/09/2025 |
| Splitter | RF-LAMBDA | RFLT2W1G18G | 11-JSPF412-018 | 12/12/2023 | 12/11/2024 |
| Splitter | RF-Lambda | RFLT2W1G18G | 21032900043 | 12/12/2023 | 12/11/2024 |
| Notebook | Lenovo | T440P | PC-089AH5 | N/A | N/A |
| Hub | PC i- | FXG-05TX | N/A | N/A | N/A |
| CBSD | Gentek | WLTGFC-105 | SN: N/A FCC ID:MXF-WLTGFC105 | N/A | N/A |
| EPC | Gentek | CSB-3230A-GT1 | 1412902099 | N/A | N/A |

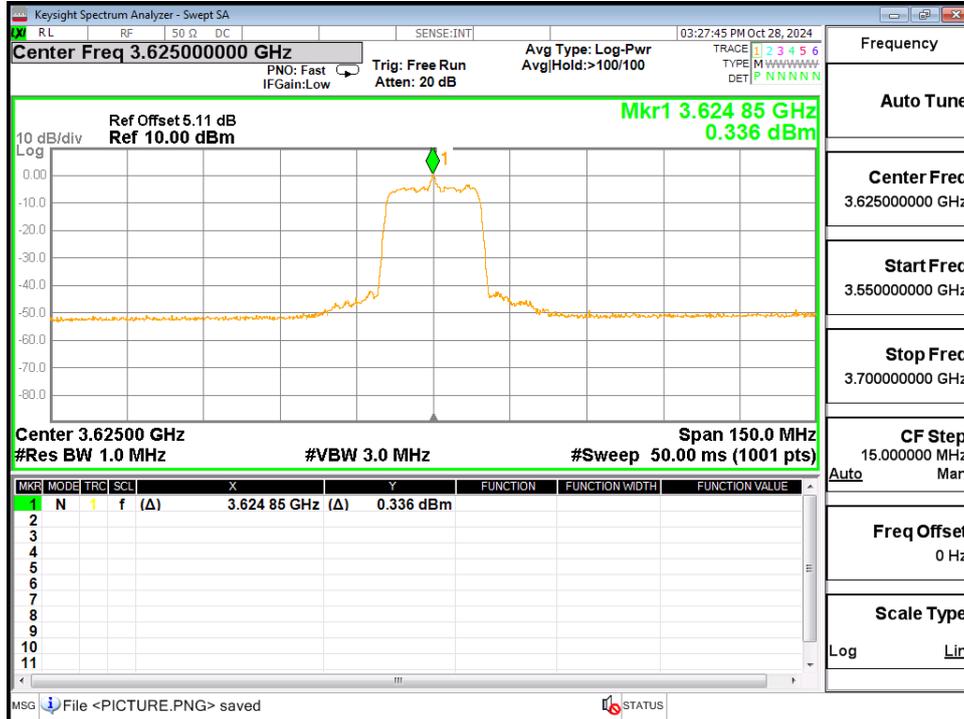
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3.5. Measurement Result

3625_20M_EIRP 20dBm



3625_20M_EIRP 20dBm_10s

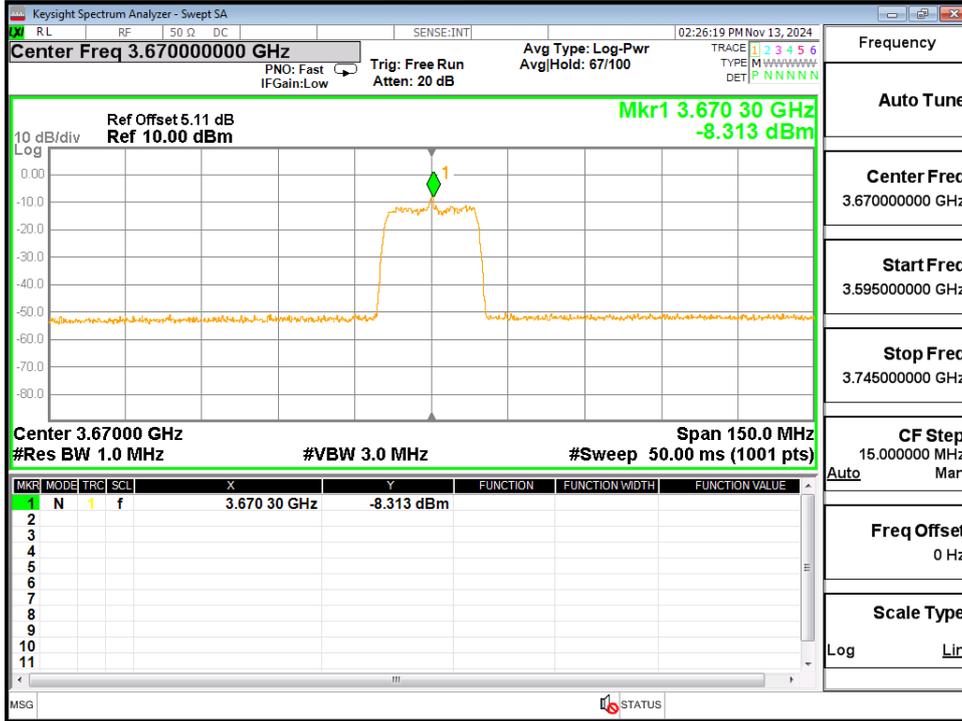


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3670_20M_EIRP 13dBm



3670_20M_EIRP 13dBm_10s



~ End of Report ~

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