

# **FCC Test Report**

Report No.: AGC08574210401FE03

| FCC ID              | : 2ATIHEPT25                |
|---------------------|-----------------------------|
| APPLICATION PURPOSE | : Original Equipment        |
| PRODUCT DESIGNATION | : wireless earbuds          |
| BRAND NAME          | : AUKEY                     |
| MODEL NAME          | : EP-T25                    |
| APPLICANT           | : Aukey Technology Co., Ltd |
| DATE OF ISSUE       | : Apr. 13, 2021             |
| STANDARD(S)         | : FCC Part 15.247           |
| REPORT VERSION      | : V1.0                      |
|                     |                             |

Attestation of Global Concernent Shenzhen) Co., Ltd

nplianc



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated restriction of Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day Safter the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



## **REPORT REVISE RECORD**

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | . /         | Apr. 13, 2021 | Valid         | Initial Release |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Festive/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter explorization of AGE" the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



# TABLE OF CONTENTS

|          | 1. VERIFICATION OF CONFORMITY                         | 5                |
|----------|---|------------------|
|          | 2. GENERAL INFORMATION                                | 6                |
|          | 2.1. PRODUCT DESCRIPTION                              | 6                |
|          | 2.2. TABLE OF CARRIER FREQUENCYS                      |                  |
|          | 2.3. RECEIVER INPUT BANDWIDTH                         | 7                |
|          | 2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE       | 7                |
|          | 2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR | 7                |
|          | 2.6. RELATED SUBMITTAL(S) / GRANT (S)                 |                  |
|          | 2.7. TEST METHODOLOGY                                 |                  |
|          | 2.8. SPECIAL ACCESSORIES                              | 8                |
|          | 2.9. EQUIPMENT MODIFICATIONS                          |                  |
|          | 2.10. ANTENNA REQUIREMENT                             |                  |
|          | 3. MEASUREMENT UNCERTAINTY                            | 9                |
|          | 4. DESCRIPTION OF TEST MODES                          |                  |
|          | 5. SYSTEM TEST CONFIGURATION                          | 11               |
|          | 5.1. CONFIGURATION OF EUT SYSTEM                      | 11               |
|          | 5.2. EQUIPMENT USED IN TESTED SYSTEM                  | 11               |
|          | 5.3. SUMMARY OF TEST RESULTS                          | 11               |
|          | 6. TEST FACILITY                                      |                  |
|          | 7. PEAK OUTPUT POWER                                  |                  |
|          | 7.1. MEASUREMENT PROCEDURE                            | 13               |
|          | 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)     |                  |
|          | 7.3. LIMITS AND MEASUREMENT RESULT.                   |                  |
|          | 8. 20DB BANDWIDTH                                     |                  |
|          | 8.1. MEASUREMENT PROCEDURE                            |                  |
|          | 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)     |                  |
|          | 8.3. LIMITS AND MEASUREMENT RESULTS                   |                  |
|          | 9. CONDUCTED SPURIOUS EMISSION                        |                  |
| St<br>pr | 9.1. MEASUREMENT PROCEDURE                            | The test results |
|          |   | 11/1             |



| 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) |    |
|---|----|
| 9.3. MEASUREMENT EQUIPMENT USED                   |    |
| 9.4. LIMITS AND MEASUREMENT RESULT                |    |
| 10. RADIATED EMISSION                             |    |
| 10.1. MEASUREMENT PROCEDURE                       |    |
| 10.2. TEST SETUP                                  |    |
| 10.3. LIMITS AND MEASUREMENT RESULT               |    |
| 10.4. TEST RESULT                                 |    |
| 11. NUMBER OF HOPPING FREQUENCY                   |    |
| 11.1. MEASUREMENT PROCEDURE                       |    |
| 11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) |    |
| 11.3. MEASUREMENT EQUIPMENT USED                  |    |
| 11.4. LIMITS AND MEASUREMENT RESULT               |    |
| 12. TIME OF OCCUPANCY (DWELL TIME)                |    |
| 12.1. MEASUREMENT PROCEDURE                       |    |
| 12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) |    |
| 12.3. MEASUREMENT EQUIPMENT USED                  |    |
| 12.4. LIMITS AND MEASUREMENT RESULT               |    |
| 13. FREQUENCY SEPARATION                          |    |
| 13.1. MEASUREMENT PROCEDURE                       |    |
| 13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) |    |
| 13.3. MEASUREMENT EQUIPMENT USED                  |    |
| 13.4. LIMITS AND MEASUREMENT RESULT               |    |
| APPENDIX A: PHOTOGRAPHS OF TEST SETUP             | 65 |
| APPENDIX B. PHOTOGRAPHS OF FUT                    | 67 |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, or having not been stamped by the Bedicated Pesting/Inspection presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuerce of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

## **1. VERIFICATION OF CONFORMITY**

| Applicant                | Aukey Technology Co., Ltd   |  |  |
|--------------------------|---|--|--|
| Address                  | Room 102, Building P09, South China City Electronic trading center, Longgang District, Shenzhen, 518111 China |  |  |
| Manufacturer             | Aukey Technology Co., Ltd   |  |  |
| Address                  | Room 102, Building P09, South China City Electronic trading center, Longgang District, Shenzhen, 518111 China |  |  |
| Factory                  | Aukey Technology Co., Ltd   |  |  |
| Address                  | Room 102, Building P09, South China City Electronic trading center, Longgang District, Shenzhen, 518111 China |  |  |
| Product Designation      | wireless earbuds  |  |  |
| Brand Name               | AUKEY   |  |  |
| Test Model               | EP-T25  |  |  |
| Date of test             | Apr. 02, 2021 to Apr. 13, 2021  |  |  |
| Deviation                | No any deviation from the test method   |  |  |
| Condition of Test Sample | ole Normal  |  |  |
| Test Result              | Pass  |  |  |
| Report Template          | AGCRT-US-BR/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 radiated emission limits of FCC PART 15.247.

Prepared By

Then Hurry

Thea Huang Project Engineer

Apr. 13, 2021

Max Zhans

Reviewed By

Max Zhang Reviewer

Apr. 13, 2021

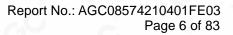
Approved By

Forrest Lei Authorized Officer

Apr. 13, 2021

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/





# 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

The EUT is designed as "wireless earbuds". It is designed by way of utilizing the GFSK,  $\pi$  /4-DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

|                             | 9  |
|-----------------------------|--|
| <b>Operation Frequency</b>  | 2.402 GHz to 2.480 GHz   |
| RF Output Power             | 4.083dBm (Max)   |
| Bluetooth Version           | V5.0   |
| Modulation                  | BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK<br>BLE □GFSK 1Mbps □GFSK 2Mbps |
| Number of channels          | 79   |
| Hardware Version            | V5.0   |
| Software Version            | V1107W10   |
| Antenna Designation         | FPC Antenna (Comply with requirements of the FCC part 15.203)    |
| Antenna Gain                | 1.9dBi   |
| Power Supply                | DC 3.7V by battery or DC 5V by adapter                           |
| Note: 1 The FLIT doesn't su | Inport BLE   |

Note: 1. The EUT doesn't support BLE.

2. The EUT includes left and right channel earphones, the schematic diagram is the same, but the PCB Layout is different. The RF output power of each earphone has been tested and recorded in the report. For other test items, due to the higher power, the right headset has been tested and recorded in this report, which is the worst case.

## 2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band   | Channel Number | Frequency |
|------------------|----------------|-----------|
| G <sup>U</sup> C | 0              | 2402 MHz  |
|                  |                | 2403 MHz  |
|                  |                |           |
|                  | 38             | 2440 MHz  |
| 2402~2480MHz     | 39             | 2441 MHz  |
| e                | 40             | 2442 MHz  |
|                  |                |           |
|                  | 77             | 2479 MHz  |
|                  | 78             | 2480 MHz  |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Prestrue/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



## 2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHz, in every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally, the type of connection (e.g. single of multi slot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also, the slave of the connection will use these settings. Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

## 2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a hopping sequence in data mode: 40, 21, 44, 23, 04, 15, 66, 56, 19, 78, 07, 28, 69, 55, 36, 45, 05, 13, 43, 74, 57, 35, 67, 76, 02, 34, 54, 63, 42, 11, 30, 06, 64, 25, 75, 48, 17, 33, 58, 01, 29, 14, 51, 72, 03, 31, 50, 61, 77, 18, 10, 47, 12, 68, 08, 49, 20, 00, 73, 09, 16, 60, 71, 41, 24, 53, 38, 26, 46, 37, 65, 32, 70, 52, 27, 59, 22, 62, 39

## 2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

1. LAP/UAP of the master of the connection.

2. Internal master clock.

The LAP (lower address part) are the 24 LSB's of the 48 BD\_ADDRESS. The BD\_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24MSB's of the 48BD\_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For behavior action with other units only offset is used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bits counter. For the deriving of the hopping sequence the entire. LAP (24 bits),4LSB's(4bits) (Input 1) and the 27MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated Pasting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer (and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always differ from the first one.

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

This submittal(s) (test report) is intended for **FCC ID: 2ATIHEPT25** filing to comply with the FCC PART 15.247 requirements.

## 2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

## 2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

## 2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

## 2.10. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written aphorization of AGE, the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



# **3. 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%.

- Uncertainty of Conducted Emission, Uc = ±3.1 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±4.0 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted,  $Uc = \pm 0.8$ dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time:  $Uc = \pm 2\%$
- Uncertainty of Frequency:  $Uc = \pm 2 \%$

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand resting in section of a stamp. Is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day affective for the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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



## **4. DESCRIPTION OF TEST MODES**

| NO. | TEST MODE DESCRIPTION    |  |  |  |
|-----|--------------------------|--|--|--|
| 1   | Low channel GFSK         |  |  |  |
| 2   | Middle channel GFSK      |  |  |  |
| 3   | High channel GFSK        |  |  |  |
| 4   | Low channel π/4-DQPSK    |  |  |  |
| 5   | Middle channel π/4-DQPSK |  |  |  |
| 6   | High channel π/4-DQPSK   |  |  |  |
| 7   | Low channel 8DPSK        |  |  |  |
| 8   | Middle channel 8DPSK     |  |  |  |
| 9   | High channel 8DPSK       |  |  |  |
| 10  | Hopping mode GFSK        |  |  |  |
| 11  | Hopping mode π/4-DQPSK   |  |  |  |
| 12  | Hopping mode 8DPSK       |  |  |  |

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

Software Setting

| Link Mode Hon  | ping   LE Test   RW           |                         |                  | (ALLD)   | REALTEK                                       |
|--|-------------------------------|-------------------------|------------------|----------|---|
|  |                               | Pkt-Tx (for MP)         | NA 54            | V Mode   | Hot Key                                       |
| hannel   | 78                            |                         |                  |          | HCI Reset                                     |
| acket Type   | 3DH5 -                        | Exec                    | Stop Clear       | r Report | Test Mode                                     |
| 'ayload Type   | PRBS9 +                       | Item                    | Value            |          | Read Thermal                                  |
| x Packet Count   | 0                             | Tx bits<br>Tx Pkt Count | 19349992<br>2369 |          | Patch code                                    |
| l x Level  | 0 -                           | 1x Pkt Lount            | 2269             |          | GetChipInto<br>ShowTxPower                    |
| ssage  |                               |                         | A State          |          | Power Tracking Se                             |
| itop hopping mod<br>itop hopping mod<br>itop hopping mod<br>itop hopping mod | : Begin<br>e<br>: Begin       |                         |                  | ^        | © ON Get<br>0 Get BT Stage<br>Read BD Address |
| Stop hopping mod<br>Enable TRX Threa   | ad Mode!!                     |                         |                  |          | Load Script                                   |
| ActionControlExcu  | te[Pkt-Tx (for MP)] Success!! |                         |                  | Y        | Loss seles                                    |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stead of the test results of the test results are apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day affective is not permitted without the written authorization of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



# **5. SYSTEM TEST CONFIGURATION**

**5.1. CONFIGURATION OF EUT SYSTEM** 

Radiated Emission Configure:

EUT

Conducted Emission Configure:

|     | 0 |    |
|-----|---|----|
| EUT |   | AE |

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

| Item | Equipment        | Model No. | ID or Specification | Remark |
|------|------------------|-----------|---------------------|--------|
| 1    | wireless earbuds | EP-T25    | 2ATIHEPT25          | EUT    |
| 2    | Control Box      | USB-TTL   | N/A                 | AE     |

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

| FCC RULES          | DESCRIPTION OF TEST         | RESULT         |
|--------------------|-----------------------------|----------------|
| 15.247 (b)(1)      | Peak Output Power           | Compliant      |
| 15.247 (a)(1)      | 20 dB Bandwidth             | Compliant      |
| 15.247 (d)         | Conducted Spurious Emission | Compliant      |
| 15.209             | Radiated Emission           | Compliant      |
| 15.247 (a)(1)(iii) | Number of Hopping Frequency | Compliant      |
| 15.247 (a)(1)(iii) | Time of Occupancy           | Compliant      |
| 15.247 (a)(1)      | Frequency Separation        | Compliant      |
| 15.207             | Conducted Emission          | Not applicable |

Note: The EUT is powered by battery. The EUT can not use the BT function with charging

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated for the formation of the stamp. Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



# 6. TEST FACILITY

| Test Site                            | Attestation of Global Compliance (Shenzhen) Co., Ltd  |  |  |  |
|--------------------------------------|---|--|--|--|
| Location                             | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community,<br>Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |  |  |  |
| Designation Number                   | CN1259  |  |  |  |
| FCC Test Firm<br>Registration Number | 975832  |  |  |  |
| A2LA Cert. No.                       | 5054.02   |  |  |  |
| Description                          | Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA  |  |  |  |

## TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment                            | Manufacturer   | Model                | S/N        | Cal. Date     | Cal. Due      |
|--------------------------------------|----------------|----------------------|------------|---------------|---------------|
| TEST<br>RECEIVER                     | R&S            | ESCI                 | 10096      | May 15, 2020  | May 14, 2021  |
| EXA Signal<br>Analyzer               | Aglient        | N9010A               | MY53470504 | Dec. 07, 2020 | Dec.06, 2021  |
| 2.4GHz Filter                        | EM Electronics | 2400-2500MHz         | N/A        | Mar. 23, 2020 | Mar. 22, 2022 |
| Attenuator                           | ZHINAN         | E-002                | N/A        | Sep. 03, 2020 | Sep. 02, 2022 |
| Horn antenna                         | SCHWARZBECK    | BBHA 9170            | #768       | Sep. 21, 2019 | Sep. 20, 2021 |
| Active loop<br>antenna<br>(9K-30MHz) | ZHINAN         | ZN30900C             | 18051      | May 22, 2020  | May 21, 2022  |
| Double-Ridged<br>Waveguide Horn      | ETS LINDGREN   | 3117                 | 00034609   | May 17, 2019  | May 16, 2021  |
| Broadband<br>Preamplifier            | ETS LINDGREN   | 3117PA               | 00225134   | Sep. 03, 2020 | Sep. 02, 2022 |
| ANTENNA                              | SCHWARZBECK    | VULB9168             | 494        | Jan. 08,2021  | Jan. 07,2023  |
| Test software                        | Tonscend       | JS32-RE<br>(Ver.2.5) | N/A        | N/A           | N/A           |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter explorization of AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



# 7. PEAK OUTPUT POWER

## 7.1. MEASUREMENT PROCEDURE

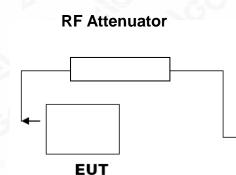
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW  $\geq$ RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

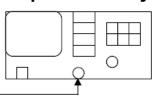
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

## 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

## PEAK POWER TEST SETUP



## Spectrum Analyzer



RF Cable

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand in the stand of the stand in the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



## 7.3. LIMITS AND MEASUREMENT RESULT

#### The right ear:

| PEAK OUTPUT POWER MEASUREMENT RESULT   |       |    |      |  |  |  |
|--|-------|----|------|--|--|--|
| FOR GFSK MOUDULATION       Frequency     Peak Power     Applicable Limits     Pass or Fail       (GHz)     (dBm)     (dBm) |       |    |      |  |  |  |
| 2.402  | 2.719 | 21 | Pass |  |  |  |
| 2.441  | 3.481 | 21 | Pass |  |  |  |
| 2.480  | 3.929 | 21 | Pass |  |  |  |



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

#### Report No.: AGC08574210401FE03 Page 15 of 83





CH78



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter authorization of AGC, the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



#### Report No.: AGC08574210401FE03 Page 16 of 83

| PEAK OUTPUT POWER MEASUREMENT RESULT<br>FOR Π/4-DQPSK MODULATION |                     |                            |              |  |  |
|--|---------------------|----------------------------|--------------|--|--|
| Frequency<br>(GHz)   | Peak Power<br>(dBm) | Applicable Limits<br>(dBm) | Pass or Fail |  |  |
| 2.402  | 1.820               | 21                         | Pass         |  |  |
| 2.441  | 2.814               | 21                         | Pass         |  |  |
| 2.480  | 3.514               | 21                         | Pass         |  |  |

CH0



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.

#### Report No.: AGC08574210401FE03 Page 17 of 83





CH78

| enter 2.480000 GHz<br>Res BW 1.5 MHz | 4) (D14)                    | 5.0 MHz                        | <u> </u>          | Span 5.000 MHz<br>.000 ms (1001 pts)       |                                      |
|--------------------------------------|-----------------------------|--------------------------------|-------------------|--|--------------------------------------|
| 70.0                                 |                             |                                |                   |  |                                      |
| 60.0                                 |                             |                                |                   |  | Freq Offs                            |
| 40.0                                 |                             |                                |                   |  | CF Sto<br>500.000 k<br><u>Auto</u> M |
| 30.0                                 |                             |                                |                   |  | 2.482500000 G                        |
| 20.0                                 |                             |                                |                   |  | Stop Fr                              |
| 10.0                                 |                             |                                |                   |  | <b>Start Fr</b><br>2.477500000 G     |
| 10.0                                 |                             | <b>1</b>                       |                   |  | 2.480000000 G                        |
| 0 dB/div Ref 20.00 dBm               |                             |                                |                   | 3.514 dBm                                  | Center Fr                            |
| Center Freq 2.48000000               | PNO: Fast +++<br>IFGain:Low | Trig: Free Run<br>Atten: 30 dB | Avg Hold: 100/100 | TYPE MWWWW<br>DET P NNNNN<br>2.480 165 GHz | Auto Tu                              |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



| PEAK OUTPUT POWER MEASUREMENT RESULT |                     |                            |              |  |  |
|--------------------------------------|---------------------|----------------------------|--------------|--|--|
|                                      | FOR 8-DPSK MODULA   | TION                       |              |  |  |
| Frequency<br>(GHz)                   | Peak Power<br>(dBm) | Applicable Limits<br>(dBm) | Pass or Fail |  |  |
| 2.402                                | 2.480               | 21                         | Pass         |  |  |
| 2.441                                | 3.357               | 21                         | Pass         |  |  |
| 2.480                                | 4.083               | 21                         | Pass         |  |  |

CH0



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

#### Report No.: AGC08574210401FE03 Page 19 of 83





CH78



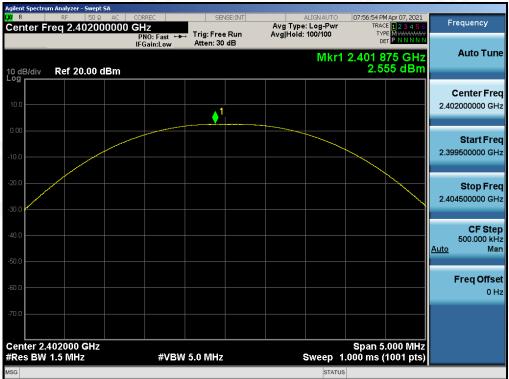
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter authorization of AGC, the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



#### The left ear:

|                    | PEAK OUTPUT POWER MEASUREMENT RESULT |                            |              |  |  |  |
|--------------------|--------------------------------------|----------------------------|--------------|--|--|--|
|                    | FOR GFSK MOUDULAT                    | ΓΙΟΝ                       |              |  |  |  |
| Frequency<br>(GHz) | Peak Power<br>(dBm)                  | Applicable Limits<br>(dBm) | Pass or Fail |  |  |  |
| 2.402              | 2.555                                | 21                         | Pass         |  |  |  |
| 2.441              | 3.549                                | 21                         | Pass         |  |  |  |
| 2.480              | 4.015                                | 21                         | Pass         |  |  |  |

#### CH0



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written exchanged by the Bedicated Festing/Inspection presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

#### Report No.: AGC08574210401FE03 Page 21 of 83





CH78



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter authorization of AGC, the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



|                    | PEAK OUTPUT POWER MEAS<br>FOR Π/4-DQPSK MOI |                            |              |
|--------------------|---|----------------------------|--------------|
| Frequency<br>(GHz) | Peak Power<br>(dBm)                         | Applicable Limits<br>(dBm) | Pass or Fail |
| 2.402              | 2.260                                       | 21                         | Pass         |
| 2.441              | 2.937                                       | 21                         | Pass         |
| 2.480              | 3.365                                       | 21                         | Pass         |



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Pestivo/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the square of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

## CH0

#### Report No.: AGC08574210401FE03 Page 23 of 83





CH78

| Agilent Spectrum Analyzer - Swept SA  |               |                |                                       |   |                 |
|---|---------------|----------------|---------------------------------------|---|-----------------|
| X R RF 50 Ω AC<br>Center Freq 2.480000000   |               | SENSE:INT      | ALIGN AUTO<br>Avg Type: Log-Pwr       | 07:59:43 PM Apr 07, 2021<br>TRACE 1 2 3 4 5 6 | Frequency       |
| Center Freq 2.48000000  | PNO: Fast +++ | Trig: Free Run | Avg Hold: 100/100                     | TYPE MWAAAAAAA<br>DET P N N N N N             |                 |
|   | IFGain:Low    | Atten: 30 dB   |                                       |   | Auto Tune       |
|   |               |                | Mkr1                                  | 2.480 175 GHz                                 | Autorune        |
| 10 dB/div Ref 20.00 dBm   |               |                |                                       | 3.365 dBm                                     |                 |
|   |               |                |                                       |   | 0               |
| 10.0  |               |                |                                       |   | Center Free     |
| 10.0  |               | 1              |                                       |   | 2.480000000 GH  |
|   |               |                |                                       |   |                 |
| 0.00  |               |                |                                       |   | Start Free      |
| and the second se |               |                | · · · · · · · · · · · · · · · · · · · |   | 2.477500000 GH  |
| -10.0   |               |                |                                       |   |                 |
|   |               |                |                                       |   |                 |
| -20.0   |               |                |                                       |   | Stop Free       |
|   |               |                |                                       |   | 2.482500000 GH: |
| -30.0   |               |                |                                       |   |                 |
|   |               |                |                                       |   | CF Ster         |
| -40.0   |               |                |                                       |   | 500.000 kH      |
|   |               |                |                                       |   | <u>Auto</u> Mar |
| -50.0   |               |                |                                       |   |                 |
|   |               |                |                                       |   | Freq Offse      |
| -60.0   |               |                |                                       |   | он:             |
|   |               |                |                                       |   |                 |
| -70.0   |               |                |                                       |   |                 |
|   |               |                |                                       |   |                 |
| Center 2.480000 GHz   |               |                |                                       | Span 5.000 MHz                                |                 |
| #Res BW 1.5 MHz   | #VBW          | 5.0 MHz        | Sweep 1                               | .000 ms (1001 pts)                            |                 |
| MSG   |               |                | STATU                                 |   |                 |
| 199<br>   |               |                | 514103                                | 5   |                 |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



| PEAK OUTPUT POWER MEASUREMENT RESULT |                     |                            |              |  |  |
|--------------------------------------|---------------------|----------------------------|--------------|--|--|
|                                      | FOR 8-DPSK MODULA   | TION                       |              |  |  |
| Frequency<br>(GHz)                   | Peak Power<br>(dBm) | Applicable Limits<br>(dBm) | Pass or Fail |  |  |
| 2.402                                | 2.806               | 21                         | Pass         |  |  |
| 2.441                                | 3.472               | 21                         | Pass         |  |  |
| 2.480                                | 3.971               | 21                         | Pass         |  |  |

CH0



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

#### Report No.: AGC08574210401FE03 Page 25 of 83





CH78



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter authorization of AGC, the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

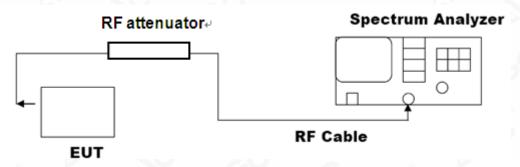


## 8. 20DB BANDWIDTH

## **8.1. MEASUREMENT PROCEDURE**

- 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 2 to 5 times the 20 dB bandwidth, centered on a hoping 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.

## 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand of the report is not permitted without the written authorization of AGE the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day and a test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



#### 8.3. LIMITS AND MEASUREMENT RESULTS

| MEASUREMENT RESULT FOR GFSK MOUDULATION |                 |                    |          |  |  |  |
|---|-----------------|--------------------|----------|--|--|--|
| Applicable Limite                       |                 | Measurement Result |          |  |  |  |
| Applicable Limits                       | Test Data (MHz) |                    | Criteria |  |  |  |
|   | Low Channel     | 1.022              | PASS     |  |  |  |
| N/A                                     | Middle Channel  | 0.965              | PASS     |  |  |  |
|   | High Channel    | 1.024              | PASS     |  |  |  |

#### 08:21:22 PM Apr 07, 2021 Radio Std: None Frequency Center Freq: 2.402000000 GHz 402000000 GHz Avg|Hold>100/100 Trig: Free Run #Atten: 30 dB Radio Device: BTS Ref 20.00 dBm **Center Freq** 2.402000000 GHz Center 2.402 GHz #Res BW 30 kHz Span 3 MHz Sweep 3.2 ms **CF** Step #VBW 100 kHz 300.000 kH <u>Auto</u> Ma Occupied Bandwidth **Total Power** 9.76 dBm 877.61 kHz Freq Offset 0 Hz 33.018 kHz **Transmit Freq Error OBW Power** 99.00 % x dB Bandwidth 1.022 MHz x dB -20.00 dB

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated fresh g/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, being a standard fresh g/inspection of AGC in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.





#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated frame/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15da/Castra the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



| MEASUREMENT RESULT FOR II /4-DQPSK MODULATION |                |                 |      |  |  |  |
|---|----------------|-----------------|------|--|--|--|
| Measurement Result                            |                |                 |      |  |  |  |
| Applicable Limits                             | Test Data      | Test Data (MHz) |      |  |  |  |
| N/A   | Low Channel    | 1.282           | PASS |  |  |  |
|   | Middle Channel | 1.283           | PASS |  |  |  |
|   | High Channel   | 1.316           | PASS |  |  |  |

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

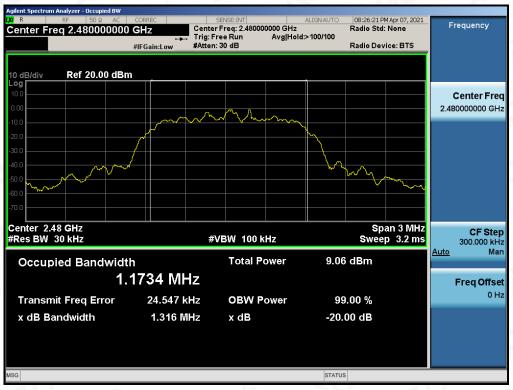


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated fresh g/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, being a standard fresh g/inspection of AGC in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

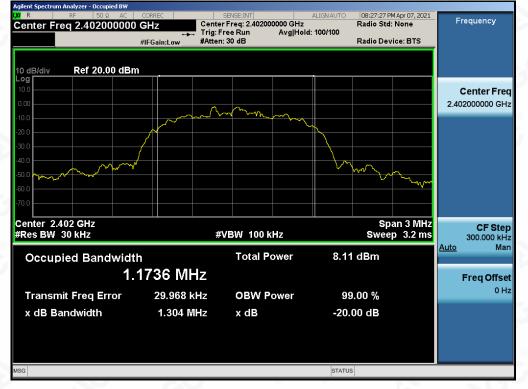


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Sedicated Pertog/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15da/Cafter the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



| MEASUF            | REMENT RESULT FOR 8- | DPSK MODULATION    |      |  |  |  |  |
|-------------------|----------------------|--------------------|------|--|--|--|--|
| Applicable Limita |                      | Measurement Result |      |  |  |  |  |
| Applicable Limits | Test Dat             | Test Data (MHz)    |      |  |  |  |  |
|                   | Low Channel          | 1.304              | PASS |  |  |  |  |
| N/A               | Middle Channel       | 1.303              | PASS |  |  |  |  |
| -C                | High Channel         | 1.302              | PASS |  |  |  |  |

## TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

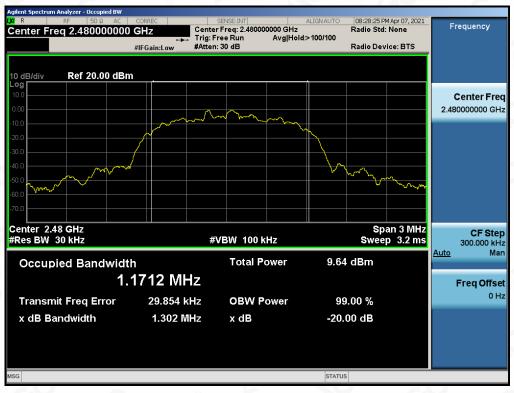


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated frame/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15da/Castra the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



## TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated frame/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15da/Castra the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



## 9. CONDUCTED SPURIOUS EMISSION

## 9.1. MEASUREMENT PROCEDURE

- 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 the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
   RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

## 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

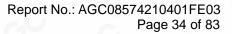
## 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

## 9.4. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEAS   | SUREMENT RESULT  |          |  |  |
|---|--|----------|--|--|
|   | Measurement Result   |          |  |  |
| Applicable Limits   | Test Data  | Criteria |  |  |
| In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency   | At least -20dBc than the limit<br>Specified on the BOTTOM<br>Channel | PASS     |  |  |
| power that is produce by the intentional radiator shall<br>be at least 20 dB below that in 100KHz bandwidth<br>within the band that contains the highest level of the<br>desired power.<br>In addition, radiation emissions which fall in the<br>restricted bands, as defined in §15.205(a), must also<br>comply with the radiated emission limits specified<br>in§15.209(a)) | At least -20dBc than the limit<br>Specified on the TOP Channel       | PASS     |  |  |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, or having not been stamped by the Bedicated Festing/Inspection presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.

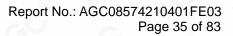




## TEST RESULT FOR ENTIRE FREQUENCY RANGE TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter authorization of AGC, the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.





|                  | m Analyzer - Swep               | it SA              |               |                     |                       |                       |   |            |                |                             |
|------------------|---------------------------------|--------------------|---------------|---------------------|-----------------------|-----------------------|---|------------|----------------|-----------------------------|
| LXI R            | RF 50 9                         |                    | REC           | SENSE               |                       |                       | ALIGN AUTO  |            | 1 Apr 07, 2021 | Frequency                   |
| Center F         | req 13.741                      | 750000 G           | Hz            | . Trig: Free F      |                       | Avg iype<br>Avg Hold: | : Log-Pwr<br>10/10  | TY         | E 123456       |                             |
|                  |                                 |                    | NO: Fast 🔸    | Atten: 30 d         |                       | in ghiona.            |   | D          |                |                             |
|                  |                                 |                    |               |                     |                       |                       | Mize  | 1 24 02    | 57GHz          | Auto Tune                   |
|                  |                                 |                    |               |                     |                       |                       | IVINI   | 1 24.52    | 40 dBm         |                             |
| 10 dB/div<br>Log | Ref 20.00                       | dBm                |               |                     |                       |                       |   | -45.77     | to ubili       |                             |
| 10.0             |                                 |                    |               |                     |                       |                       |   |            |                | Conton From                 |
|                  |                                 |                    |               |                     |                       |                       |   |            |                | Center Freq                 |
| 0.00             |                                 |                    |               |                     |                       |                       |   |            |                | 13.741750000 GHz            |
| -10.0            |                                 |                    |               |                     |                       |                       |   |            |                |                             |
| -20.0            |                                 |                    |               |                     |                       |                       |   |            | -19.58 dBm     |                             |
|                  |                                 |                    |               |                     |                       |                       |   |            |                | Start Freq                  |
| -30.0            |                                 |                    |               |                     |                       |                       |   |            |                | 2.483500000 GHz             |
| -40.0            |                                 |                    |               |                     |                       |                       |   |            | <u> </u>       |                             |
| -50.0            |                                 |                    |               |                     |                       |                       |   |            |                |                             |
| -60.0 4.44       | المستخدرية ال                   | و خان الله عليه ال | A. Acabarta a |                     | and the second second | ability in the        | in the second |            |                | Stop Freq                   |
| -bU.U College    | The second second second second |                    | 10 A. A. A.   | ي الأركانية الأربية |                       |                       |   |            |                | 25.00000000 GHz             |
| -70.0            |                                 |                    |               |                     |                       |                       |   |            |                |                             |
|                  |                                 |                    |               |                     |                       |                       |   |            |                |                             |
| Start 2.48       |                                 |                    |               |                     |                       |                       |   |            | 5.00 GHz       | CF Step                     |
| #Res BW          | 100 kHz                         |                    | #VBW          | 300 kHz             |                       |                       | Sweep 2   | 2.152 s (3 | 0000 pts)      | 2.251650000 GHz<br>Auto Man |
| MKR MODE TH      | RC SCL                          | ×                  |               | Y                   | FUNCTIO               | DN FUN                | ICTION WIDTH  | FUNCTIO    | IN VALUE       | Auto Man                    |
| 1 N 1            | f                               | 24.925             | 7 GHz         | -49.740 dBn         | n                     |                       |   |            |                |                             |
| 2                |                                 |                    |               |                     |                       |                       |   |            |                | Freq Offset                 |
| 4                |                                 |                    |               |                     |                       |                       |   |            |                | 0 Hz                        |
| 5                |                                 |                    |               |                     |                       |                       |   |            |                | 0112                        |
| 6                |                                 |                    |               |                     |                       |                       |   |            |                |                             |
| 8                |                                 |                    |               |                     |                       |                       |   |            |                |                             |
| 9                |                                 |                    |               |                     |                       |                       |   |            |                |                             |
| 10               |                                 |                    |               |                     |                       |                       |   |            |                |                             |
|                  |                                 |                    |               |                     |                       |                       |   |            | <b>_</b> _     |                             |
| MSG              |                                 |                    |               |                     |                       |                       | OTATIO  |            |                |                             |
| MSG              |                                 |                    |               |                     |                       |                       | STATUS  |            |                |                             |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Festive/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter explorization of AGC, the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

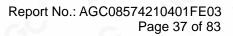
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com
 Web: http://cn.agc-cert.com/



| Agilent Spectrum Analyzer - Swep   |   |                                |   |  |  |
|--|---|--------------------------------|---|--|--|
| Center Freq 2.4410   |   | SENSE:INT                      | ALIGN AUTO<br>Avg Type: Log-Pwr   | 08:32:03 PM Apr 07, 2021<br>TRACE 1 2 3 4 5 6  | Frequency  |
| Center Freq 2.44 10  | PNO: Wide 🕶   | Trig: Free Run<br>Atten: 30 dB | Avg Hold: 10/10   | TYPE MUMANANA<br>DET P N N N N N   |  |
|  | IFGain:Low  | Atten: 30 dB                   |   |  | Auto Tune  |
|  |   |                                | IVIKET 2  | 440 874 5 GHz.<br>1.216 dBm  |  |
| 10 dB/div Ref 20.00  | dBm   |                                |   | 1.210 GBM  |  |
| 10.0   |   | 1                              |   |  | Center Freq  |
| 0.00   |   |                                |   |  | 2.441000000 GHz  |
| -10.0  | Mar   |                                | Manument of the second |  |  |
| -20.0  |   |                                |   |  |  |
| -30.0  |   |                                |   |  | Start Freq   |
| -40.0  | a a aller   |                                |   | A  | 2.439500000 GHz  |
| -50.0 MMMMMM   |   |                                |   | and the second s   |  |
| 00.0   |   |                                |   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~  | Stop Freq  |
| -60.0  |   |                                |   |  | 2.442500000 GHz  |
| -70.0  |   |                                |   |  |  |
| Center 2.441000 GHz  | Z   |                                |   | Span 3.000 MHz   | CF Step  |
| #Res BW 100 kHz  |   | V 300 kHz                      | Sweep 2.0   | 000 ms (30000 pts)   | 300.000 kHz  |
| MKR MODE TRC SCL   | ×   | Y FI                           | UNCTION FUNCTION WIDTH  | FUNCTION VALUE   | <u>Auto</u> Man  |
| 1 N 1 f  | 2.440 874 5 GHz   | 1.216 dBm                      |   |  |  |
| 2  |   |                                |   |  | Freq Offset  |
| 4 5  |   |                                |   |  | 0 Hz   |
| 6  |   |                                |   |  |  |
| 8  |   |                                |   |  |  |
| 9  |   |                                |   |  |  |
| 10   |   |                                |   |  |  |
|  |   |                                |   |  |  |
| MSG  |   |                                |   |  |  |
|  |   |                                | STATUS  |  |  |
| Agilent Spectrum Analyzer - Swep   |   | OTHER MIT                      |   |  |  |
| LXI R RF 50 9  | Ω AC CORREC   | SENSE:INT                      | ALIGN AUTO<br>Avg Type: Log-Pwr   | 08:32:12 PM Apr 07, 2021<br>TRACE 12 3 4 5 6   | Frequency  |
|  | Ω AC CORREC<br>000000 GHz<br>PN0: Fast ↔  | Trig: Free Run                 | ALIGNAUTO   |  | Frequency  |
| LXI R RF 50 9  | Ω AC   CORREC   |                                | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10   | 08:32:12 PM Apr 07, 2021<br>TRACE 123456<br>TYPE MUNAWAWA<br>DET P.N.N.N.N.N   | Frequency<br>Auto Tune   |
| XM         RF         50 3           Center Freq 1.2150  | α AC CORREC<br>000000 GHz<br>PN0: Fast ↔<br>IFGain:Low  | Trig: Free Run                 | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10   | 08:32:12 PM Apr 07, 2021<br>TRACE 2 3 4 5 6<br>TYPE MWWWWW<br>DET P NNNN N<br>1 2.339 88 GHz   |  |
| LXI R RF 50 9  | α AC CORREC<br>000000 GHz<br>PN0: Fast ↔<br>IFGain:Low  | Trig: Free Run                 | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10   | 08:32:12 PM Apr 07, 2021<br>TRACE 123456<br>TYPE MUNAWAWA<br>DET P.N.N.N.N.N   |  |
| XX         R         S0 (2000)           Center Freq 1.2150         50 (2000)           10 dB/div         Ref 20.00  | α AC CORREC<br>000000 GHz<br>PN0: Fast ↔<br>IFGain:Low  | Trig: Free Run                 | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10   | 08:32:12 PM Apr 07, 2021<br>TRACE 2 3 4 5 6<br>TYPE MWWWWW<br>DET P NNNN N<br>1 2.339 88 GHz   |  |
| XM         R         S0 6           Center Freq 1.2150         S0 6           10 dB/div         Ref 20.00  | α AC CORREC<br>000000 GHz<br>PN0: Fast ↔<br>IFGain:Low  | Trig: Free Run                 | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10   | 08:32:12 PM Apr 07, 2021<br>TRACE 2 3 4 5 6<br>TYPE MWWWWW<br>DET P NNNN N<br>1 2.339 88 GHz   | Auto Tune  |
| XM         R         S0 (2000)           Center Freq 1.2150         100           10 dB/div         Ref 20.00           10 dB/div         Ref 20.00  | α AC CORREC<br>000000 GHz<br>PN0: Fast ↔<br>IFGain:Low  | Trig: Free Run                 | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10   | 08:32:12 PM Apr 07, 2021<br>TRACE 2 3 4 5 6<br>TYPE MWWWWW<br>DET P NNNN N<br>1 2.339 88 GHz   | Auto Tune<br>Center Freq   |
| XM         R         S0 (2000)           Center Freq 1.2150         50 (2000)           10 dB/div         Ref 20.00           10 0         0.00  | α AC CORREC<br>000000 GHz<br>PN0: Fast ↔<br>IFGain:Low  | Trig: Free Run                 | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10   | 08:32:12 PM Apr 07, 2021<br>TRACE 2 3 4 5 6<br>TYPE MWWWWW<br>DET P NNNN N<br>1 2.339 88 GHz   | Auto Tune<br>Center Freq<br>1.215000000 GHz  |
| XM         R         S0 (3)           Center Freq 1.2150         10           10 dB/div         Ref 20.00           10.0   | α AC CORREC<br>000000 GHz<br>PN0: Fast ↔<br>IFGain:Low  | Trig: Free Run                 | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10   | 08:32:12 PM Apr 07, 2021<br>TRACE 0.2 3 4 5 6<br>TYPE MAXMOUNT<br>DET P. N.N.N.N.N<br>1 2.339 88 GHz<br>-56.984 dBm  | Auto Tune<br>Center Freq<br>1.21500000 GHz<br>Start Freq   |
| W         R         RF         50 g           Center Freq 1.2150         10 dB/div         Ref 20.00           10 dB/div         Ref 20.00         10.0           0.00   | α AC CORREC<br>000000 GHz<br>PN0: Fast ↔<br>IFGain:Low  | Trig: Free Run                 | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10   | 08:32:12 PM Apr 07, 2021<br>TRACE 0.2 3 4 5 6<br>TYPE MAXMOUNT<br>DET P. N.N.N.N.N<br>1 2.339 88 GHz<br>-56.984 dBm  | Auto Tune<br>Center Freq<br>1.215000000 GHz  |
| X/V         R         RF         S0 4           Center Freq 1.2150         Ref 20.00           10 dB/div         Ref 20.00           10.0  | α AC CORREC<br>000000 GHz<br>PN0: Fast ↔<br>IFGain:Low  | Trig: Free Run                 | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10   | 08:32:12 PM Apr 07, 2021<br>TRACE 0.2 3 4 5 6<br>TYPE MAXMOUNT<br>DET P. N.N.N.N.N<br>1 2.339 88 GHz<br>-56.984 dBm  | Auto Tune<br>Center Freq<br>1.21500000 GHz<br>Start Freq   |
| D/l         R         RF         S0.4           Center Freq 1.2150           Log         Ref 20.00           10.0         Ref 20.00           10.0         Ref 20.00           20.0         Ref 20.00  | 2 AC   CORREC  <br>100000 GHZ<br>PN0: Fast →<br>IFGain:Low<br>dBm   | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE 0.2 3 4 5 6<br>TYPE MAXMOUNT<br>DET P. N.N.N.N.N<br>1 2.339 88 GHz<br>-56.984 dBm  | Auto Tune<br>Center Freq<br>1.21500000 GHz<br>Start Freq<br>30.000000 MHz<br>Stop Freq   |
| D/         R         RF         S0.4           Center Freq 1.2150           10.0         Ref 20.00           10.0 <thref 20.00<="" <="" th=""><th></th><th>Trig: Free Run</th><th>ALIGNAUTO<br/>Avg Type: Log-Pwr<br/>Avg Hold: 10/10<br/>Mkr</th><th>08:32:12 PM Apr 07, 2021<br/>TRACE 0.2 3 4 5 6<br/>TYPE MAXMOUNT<br/>DET P. N.N.N.N.N<br/>1 2.339 88 GHz<br/>-56.984 dBm</th><th>Auto Tune<br/>Center Freq<br/>1.21500000 GHz<br/>Start Freq<br/>30.000000 MHz</th></thref>  |   | Trig: Free Run                 | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE 0.2 3 4 5 6<br>TYPE MAXMOUNT<br>DET P. N.N.N.N.N<br>1 2.339 88 GHz<br>-56.984 dBm  | Auto Tune<br>Center Freq<br>1.21500000 GHz<br>Start Freq<br>30.000000 MHz  |
| D/l         R         RF         S0.4           Center Freq 1.2150           Log         Ref 20.00           10.0         Ref 20.00           10.0         Ref 20.00           20.0         Ref 20.00  |   | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE 0.2 3 4 5 6<br>TYPE MAXMOUNT<br>DET P. N.N.N.N.N<br>1 2.339 88 GHz<br>-56.984 dBm  | Auto Tune<br>Center Freq<br>1.21500000 GHz<br>Start Freq<br>30.000000 MHz<br>Stop Freq   |
| W         R         RF         S0.4           Center Freq 1.2150         10 dB/div         Ref 20.00           10 dB/div         Ref 20.00         10.0           10 0         10.0         10.0           10 0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           20.0         10.0         10.0           40.0         10.0         10.0           50.0         10.0         10.0           70.0         10.0         10.0           20.0         10.0         10.0           20.0 <t< th=""><th>AC CORREC      OODOOO GHZ      PRO: Fast →     IFGain:Low      dBm      dBm</th><th>Trig: Free Run<br/>Atten: 30 dB</th><th>ALIGNAUTO<br/>Avg Type: Log-Pwr<br/>Avg Hold: 10/10<br/>Mkr</th><th>08:32:12 PM Apr 07, 2021<br/>TRACE [] 28 4 5 6<br/>TYPE [] 28 5<br/>0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th><th>Auto Tune<br/>Center Freq<br/>1.215000000 GHz<br/>Start Freq<br/>30.000000 MHz<br/>Stop Freq<br/>2.400000000 GHz<br/>CF Step</th></t<> | AC CORREC      OODOOO GHZ      PRO: Fast →     IFGain:Low      dBm      dBm | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE [] 28 4 5 6<br>TYPE [] 28 5<br>0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | Auto Tune<br>Center Freq<br>1.215000000 GHz<br>Start Freq<br>30.000000 MHz<br>Stop Freq<br>2.400000000 GHz<br>CF Step  |
| M         R         RF         50 g           Center Freq 1.2150         Ref 20.00           10 dB/div         Ref 20.00           -0 dB/div         Ref 20.00           -10 dB/div         Ref 20.00           -30 d  | AC CORREC      OODOOO GHZ      PRO: Fast →     IFGain:Low      dBm      dBm | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 06:32:12 PM Apr 07, 2021<br>TRACE []] 23 4 5 6<br>TYPE<br>PM ANN NN<br>DET PM NN NN<br>1 2.339 88 GHz<br>-56.984 dBm<br>-18.78 dBm<br>-18.78 dBm<br>-18.78 dBm   | Auto Tune<br>Center Freq<br>1.215000000 GHz<br>Start Freq<br>30.000000 MHz<br>Stop Freq<br>2.400000000 GHz<br>CF Step<br>237.000000 MHz  |
| D/I         R         RF         S0.4           Center Freq 1.2150         Center Freq 1.2150           10.0         Center Freq 1.2150           20.0         Center Freq 1.2150  | Q     AC     CORREC       1000000     GHz     PR0: Fast → IFGain:Low       dBm     IFGain:Low   | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE [] 28 4 5 6<br>TYPE [] 28 5<br>0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | Auto Tune<br>Center Freq<br>1.215000000 GHz<br>Start Freq<br>30.000000 MHz<br>Stop Freq<br>2.400000000 GHz<br>CF Step  |
| W         R         RF         S0 (2000)           Center Freq 1.2150         100         100         100           10.0         0.00         0.00         100         100           10.0         0.00         0.00         100         100         100           -20.0         0.00         0.00         100  |   | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE [] 2 3 4 5 6<br>TYPE [] 2 4 | Start Freq           30.00000 GHz           Start Freq           30.000000 MHz           Stop Freq           2.400000000 GHz           CF Step           237.000000 MHz           Auto           Man |
| DV         R         RF         S0.4           Center Freq 1.2150         Center Freq 1.2150           10.0  | Q     AC     CORREC       1000000     GHz     PR0: Fast → IFGain:Low       dBm     IFGain:Low   | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE [] 2 3 4 5 6<br>TYPE [] 2 4 | Auto Tune  |
| D//         R         RF         S0.4           Center Freq 1.2150         Center Freq 1.2150           10.0         Center Freq 1.2150           20.0         Center Freq 1.2150           -20.0         Center Freq 1.2150           -30.0         Center Freq 1.2150           -40.0         Center Freq 1.2150           -50.0         Center Freq 1.2150           -70.0         Center Freq 1.2150           Start 30 MHz         Freq 1.2150           #Res BW 100 kHz         MKR MODE TRC SCL           1         N         1           2         Center Freq 1.2150           3         Center Freq 1.2150           4         Center Freq 1.2150  | Q     AC     CORREC       1000000     GHz     PR0: Fast → IFGain:Low       dBm     IFGain:Low   | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE [] 2 3 4 5 6<br>TYPE [] 2 4 | Start Freq           30.00000 GHz           Start Freq           30.00000 MHz           Stop Freq           2.40000000 GHz           CF Step           237.000000 MHz           Auto Man             |
| W         R         RF         S0 4           Center Freq 1.2150         Center Freq 1.2150           10 dB/div         Ref 20.00  | Q     AC     CORREC       1000000     GHz     PR0: Fast → IFGain:Low       dBm     IFGain:Low   | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE [] 2 3 4 5 6<br>TYPE [] 2 4 | Auto Tune<br>Center Freq<br>1.215000000 GHz<br>Start Freq<br>30.000000 MHz<br>2.400000000 GHz<br>2.400000000 GHz<br>237.000000 MHz<br>Auto Man   |
| W         R         RF         S0.4           Center Freq 1.2150         Center Freq 1.2150           10.0   | Q     AC     CORREC       1000000     GHz     PR0: Fast → IFGain:Low       dBm     IFGain:Low   | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE [] 2 3 4 5 6<br>TYPE [] 2 4 | Auto Tune<br>Center Freq<br>1.215000000 GHz<br>Start Freq<br>30.000000 MHz<br>2.400000000 GHz<br>2.400000000 GHz<br>237.000000 MHz<br>Auto Man   |
| DV         R         RF         S0.4           Center Freq 1.2150         Center Freq 1.2150           10.0         Center Freq 1.2150           20.0         Center Freq 1.2150           -20.0         Center Freq 1.2150           -30.0         Center Freq 1.2150           -40.0         Center Freq 1.2150           -40.0         Center Freq 1.2150           -50.0         Center Freq 1.2150           -70.0         Center Freq 1.2150           Start 30 MHz         Freq 2.2150           #Res BW 100 kHz         MKR           MKR MODE         Freq 2.2150           1         F           2         Center Freq 2.2150           4         Center Freq 2.2150           4         Center Freq 2.2150           5         Center Freq 2.2150           6         Center Freq 2.2150           7  | Q     AC     CORREC       1000000     GHz     PR0: Fast → IFGain:Low       dBm     IFGain:Low   | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE [] 2 3 4 5 6<br>TYPE [] 2 4 | Auto Tune<br>Center Freq<br>1.215000000 GHz<br>Start Freq<br>30.000000 MHz<br>2.400000000 GHz<br>2.400000000 GHz<br>237.000000 MHz<br>Auto Man   |
| DV         R         RF         S0.4           Center Freq 1.2150         Center Freq 1.2150           10.0  | Q     AC     CORREC       1000000     GHz     PR0: Fast → IFGain:Low       dBm     IFGain:Low   | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE [] 2 3 4 5 6<br>TYPE [] 2 4 5 6<br>TY  | Auto Tune<br>Center Freq<br>1.215000000 GHz<br>Start Freq<br>30.000000 MHz<br>2.400000000 GHz<br>2.400000000 GHz<br>237.000000 MHz<br>Auto Man   |
| DV         R         RF         S0.4           Center Freq 1.2150         Center Freq 1.2150           10.0         Center Freq 1.2150           20.0         Center Freq 1.2150           -20.0         Center Freq 1.2150           -30.0         Center Freq 1.2150           -40.0         Center Freq 1.2150           -40.0         Center Freq 1.2150           -50.0         Center Freq 1.2150           -70.0         Center Freq 1.2150           Start 30 MHz         Freq 2.2150           #Res BW 100 kHz         MKR           MKR MODE         Freq 2.2150           1         F           2         Center Freq 2.2150           4         Center Freq 2.2150           4         Center Freq 2.2150           5         Center Freq 2.2150           6         Center Freq 2.2150           7  | Q     AC     CORREC       1000000     GHz     PR0: Fast → IFGain:Low       dBm     IFGain:Low   | Trig: Free Run<br>Atten: 30 dB | ALIGNAUTO<br>Avg Type: Log-Pwr<br>Avg Hold: 10/10<br>Mkr  | 08:32:12 PM Apr 07, 2021<br>TRACE [] 2 3 4 5 6<br>TYPE [] 2 4 | Auto Tune<br>Center Freq<br>1.215000000 GHz<br>Start Freq<br>30.000000 MHz<br>2.400000000 GHz<br>2.400000000 GHz<br>CF Step<br>237.000000 MHz<br>Auto Man  |

## TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN MIDDLE CHANNEL

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.





| Agilent Spectrum Analyz         | er - Swept SA         |                                 |                          |                          |                                 |               |   |   |
|---------------------------------|-----------------------|---------------------------------|--------------------------|--------------------------|---------------------------------|---------------|---|---|
| 🕅 R RF<br>Center Freq 1         | 50 Ω AC<br>3.74175000 | CORREC<br>0 GHz<br>PNO: Fast ++ | SENSE                    |                          | ALIGNAUTO<br>: Log-Pwr<br>10/10 | TRAC          | 1 Apr 07, 2021<br>E 123456<br>E M WWWWW | Frequency                                     |
| 10 dB/div Ref                   | 20.00 dBm             | IFGain:Low                      | Atten: 30 dl             |                          | <br>                            | DI<br>1 23.71 | 5 GHz<br>43 dBm                         | Auto Tune                                     |
| Log<br>10.0<br>0.00             |                       |                                 |                          |                          |                                 |               |   | Center Freq<br>13.741750000 GHz               |
| -20.0<br>-30.0<br>-40.0         |                       |                                 |                          |                          |                                 |               | -18.78 dBm                              | <b>Start Freq</b><br>2.483500000 GHz          |
| -50.0<br>-60.0<br>-70.0         |                       |                                 |                          | i ta principa in ta di a |                                 |               |   | <b>Stop Freq</b><br>25.000000000 GHz          |
| Start 2.48 GHz<br>#Res BW 100 k | X                     | # <b>VB</b> M                   | / 300 kHz<br>-49.743 dBm | FUNCT                    | Sweep 2                         | 2.152 s (3    | 5.00 GHz<br>0000 pts)                   | CF Step<br>2.251650000 GHz<br><u>Auto</u> Man |
|                                 | 20.                   |                                 | 43.743 UDI               |                          |                                 |               |   | <b>Freq Offset</b><br>0 Hz                    |
| 6<br>7<br>8<br>9<br>10<br>11    |                       |                                 |                          |                          |                                 |               |   |   |
| MSG                             |                       |                                 |                          |                          | STATUS                          |               |   |   |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festure/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approval approver apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

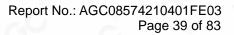
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com





## TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN HIGH CHANNEL

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Figure/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, be test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.





| Agilent Spectru                        |          |       |           |                |                      |   |               |   |   |
|--|----------|-------|-----------|----------------|----------------------|---|---------------|---|---|
| Center F                               |          |       |           |                | Avg Type<br>AvglHold | ALIGNAUTO<br>: Log-Pwr<br>10/10             | TRAC          | 4 Apr 07, 2021<br>E <b>1 2 3 4 5 6</b><br>E M 444 Autor | Frequency   |
|  |          |       | PNO: Fast | Atten: 30      | Arginera             |   | DI<br>1 23.39 | <sup>P NNNNN</sup>                                      | Auto Tune   |
| 10 dB/div                              | Ref 20.0 | 0 dBm |           |                |                      |   | -49.3         | 26 dBm  |   |
| Log<br>10.0                            |          |       |           |                |                      |   |               |   | Center Freq<br>13.750000000 GHz                     |
| -10.0<br>-20.0<br>-30.0<br>-40.0       |          |       |           |                |                      |   |               | -17.97 dBm  | <b>Start Freq</b><br>2.50000000 GHz                 |
| -40.0<br>-50.0<br>-60.0                |          |       |           |                |                      | a stan data data data data data data data d |               |   | <b>Stop Freq</b><br>25.00000000 GHz                 |
| Start 2.50<br>#Res BW                  | 100 kHz  | X     | #VBW      | <b>300 kHz</b> | CTION   FUI          | Sweep 2                                     | 2.152 s (3    | 5.00 GHz<br>0000 pts)                                   | <b>CF Step</b><br>2.25000000 GHz<br><u>Auto</u> Man |
| 1 N 1<br>2                             |          |       | 96 4 GHz  | -49.326 di     |                      |   | Fonone        |   |   |
| 3<br>4<br>5<br>7<br>8<br>9<br>10<br>11 |          |       |           |                |                      |   |               |   | Freq Offset<br>0 Hz                                 |
| MSG                                    |          |       |           |                |                      | STATUS                                      | 5             |   |   |

Note: The 8DPSK modulation is the worst case and only those data recorded in the report.

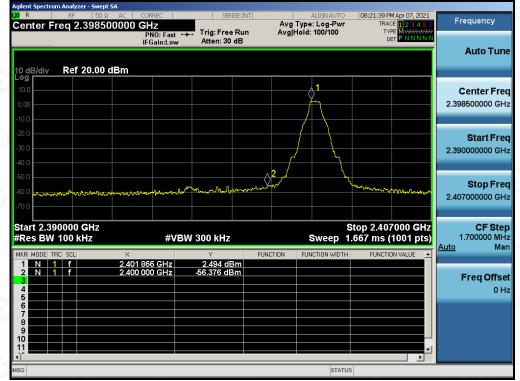
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



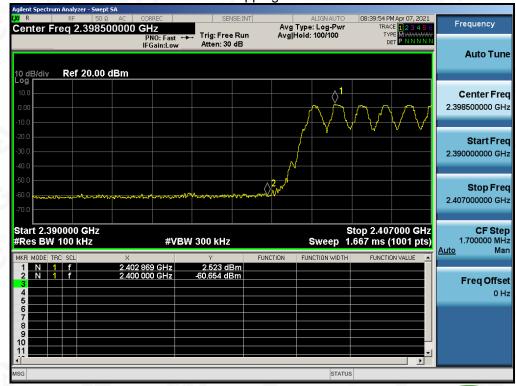
#### TEST RESULT FOR BAND EDGE

#### GFSK MODULATION IN LOW CHANNEL

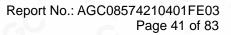
Hopping off



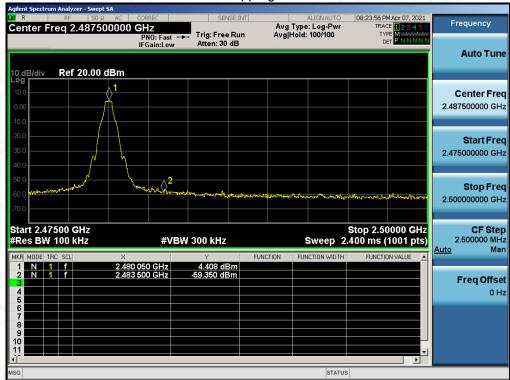
Hopping on



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand in the stand of the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day affective issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



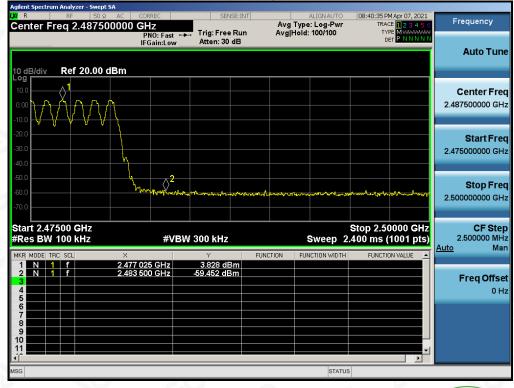




## GFSK MODULATION IN HIGH CHANNEL

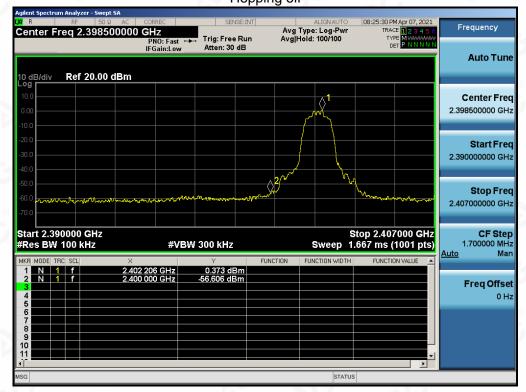
Hopping off

Hopping on



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festure/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.





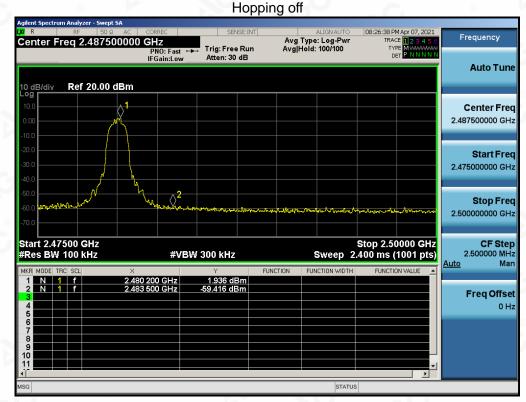
# $\pi$ /4-DQPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on



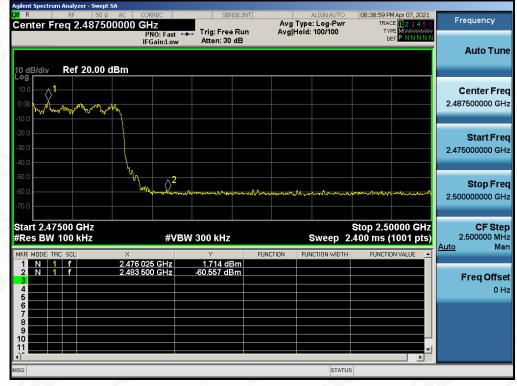
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated resting/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, between the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.





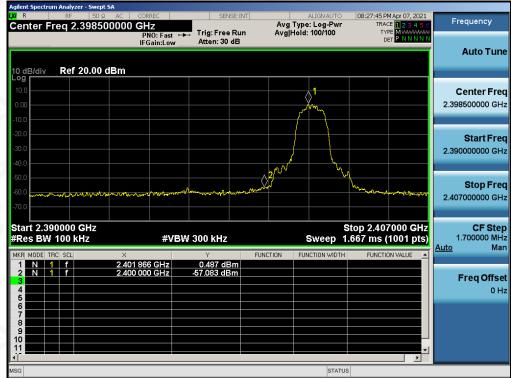
## $\pi$ /4-DQPSK MODULATION IN HIGH CHANNEL

Hopping on



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, be test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.

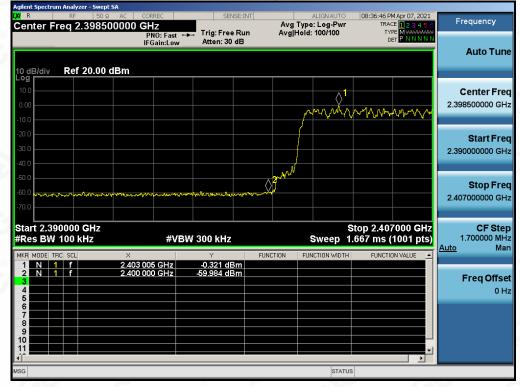




## 8-DPSK MODULATION IN LOW CHANNEL

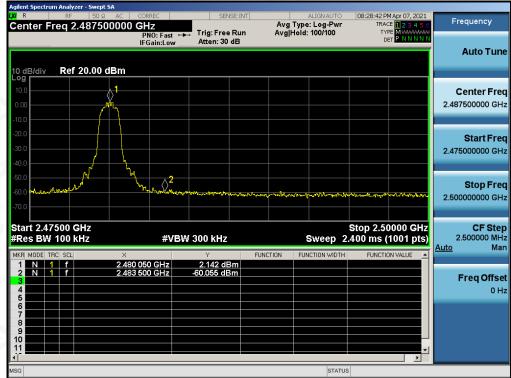
Hopping off

Hopping on



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, be test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.

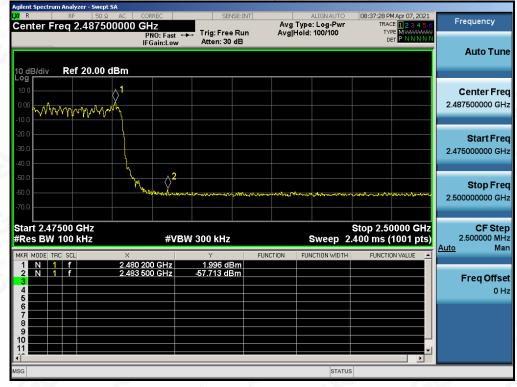




## 8-DPSK MODULATION IN HIGH CHANNEL

Hopping off

Hopping on



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated resting/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, between the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



## **10. RADIATED EMISSION**

## **10.1. MEASUREMENT PROCEDURE**

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter    | Setting   |
|-----------------------|---|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP                               |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP                               |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP                            |
| Start ~Stop Frequency | 1GHz~26.5GHz<br>1MHz/3MHz for Peak, 1MHz/3MHz for Average |

| Receiver Parameter    | Setting                        |
|-----------------------|--------------------------------|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP    |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP    |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

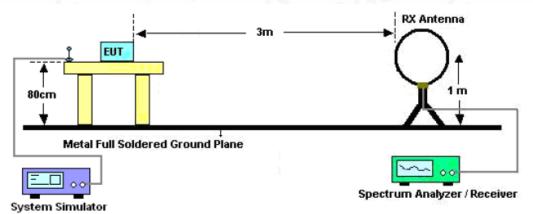
 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

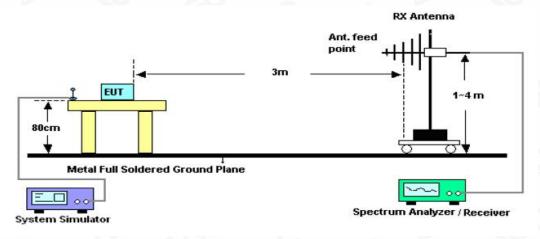


## 10.2. TEST SETUP

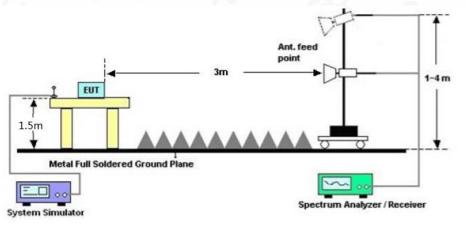
Radiated Emission Test-Setup Frequency Below 30MHz



## RADIATED EMISSION TEST SETUP 30MHz-1000MHz



## RADIATED EMISSION TEST SETUP ABOVE 1000MHz



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE in the test estimates and the test estimates and the test estimates are presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/

## **10.3. LIMITS AND MEASUREMENT RESULT**

#### 15.209 Limit in the below table has to be followed

| Frequencies<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490          | 2400/F(kHz)                          | 300                              |
| 0.490~1.705          | 24000/F(kHz)                         | 30                               |
| 1.705~30.0           | 30                                   | 30                               |
| 30~88                | 100                                  | 3                                |
| 88~216               | 150                                  | 3                                |
| 216~960              | 200                                  | 3                                |
| Above 960            | 500                                  | 3                                |

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

## **10.4. TEST RESULT**

## **RADIATED EMISSION BELOW 30MHz**

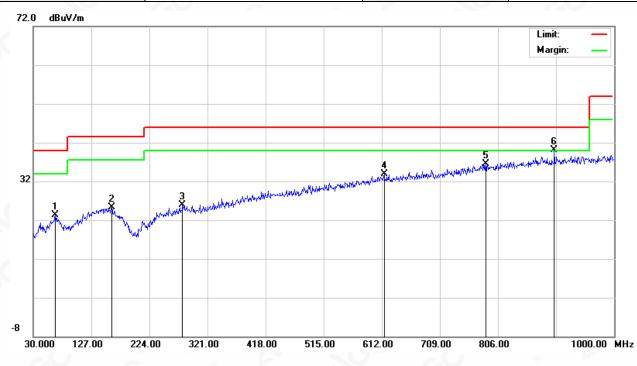
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day and a state of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



#### **RADIATED EMISSION BELOW 1GHz**

| EUT         | wireless earbuds | Model Name        | EP-T25         |
|-------------|------------------|-------------------|----------------|
| Temperature | 25°C             | Relative Humidity | 55.4%          |
| Pressure    | 960hPa           | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 9           | Antenna           | Horizontal     |



| No. Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |
|---------|----------|------------------|-------------------|------------------|--------|--------|----------|
|         | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector |
| 1       | 66.8600  | 6.49             | 16.72             | 23.21            | 40.00  | -16.79 | peak     |
| 2       | 160.9500 | 6.29             | 19.09             | 25.38            | 43.50  | -18.12 | peak     |
| 3       | 279.2900 | 5.93             | 19.88             | 25.81            | 46.00  | -20.19 | peak     |
| 4       | 615.8800 | 6.80             | 27.14             | 33.94            | 46.00  | -12.06 | peak     |
| 5       | 785.6300 | 6.37             | 30.09             | 36.46            | 46.00  | -9.54  | peak     |
| 6 *     | 900.0900 | 8.41             | 31.70             | 40.11            | 46.00  | -5.89  | peak     |

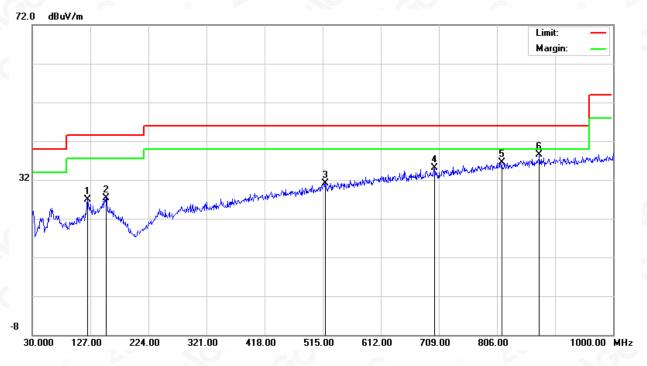
## **RESULT: PASS**

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated formation of the stamp. Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



#### Report No.: AGC08574210401FE03 Page 51 of 83

| EUT         | wireless earbuds | Model Name        | EP-T25         |
|-------------|------------------|-------------------|----------------|
| Temperature | 25°C             | Relative Humidity | 55.4%          |
| Pressure    | 960hPa           | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 9           | Antenna           | Vertical       |



|   | No. | Mk | . Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |
|---|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|
| - |     |    | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector |
|   | 1   |    | 122.1500 | 8.70             | 18.11             | 26.81            | 43.50  | -16.69 | peak     |
|   | 2   |    | 153.1900 | 8.01             | 19.20             | 27.21            | 43.50  | -16.29 | peak     |
|   | 3   |    | 519.8500 | 5.82             | 25.38             | 31.20            | 46.00  | -14.80 | peak     |
|   | 4   |    | 702.2100 | 6.82             | 28.20             | 35.02            | 46.00  | -10.98 | peak     |
|   | 5   |    | 813.7600 | 6.00             | 30.59             | 36.59            | 46.00  | -9.41  | peak     |
| Č | 6   | *  | 876.8100 | 7.17             | 31.40             | 38.57            | 46.00  | -7.43  | peak     |

## **RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss, Over= Measurement -Limit.

2. All test modes had been pre-tested. The mode 9 is the worst case and recorded in the report.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pering/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



## Report No.: AGC08574210401FE03 Page 52 of 83

## **RADIATED EMISSION ABOVE 1GHz**

| EUT         | wireless earbuds | Model Name        | EP-T25         |
|-------------|------------------|-------------------|----------------|
| Temperature | 25°C             | Relative Humidity | 55.4%          |
| Pressure    | 960hPa           | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 7           | Antenna           | Horizontal     |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz)     | (dBµV)        | (dB)   | (dBµV/m)       | (dBµV/m) | (dB)   | value Type |
| 4804.000  | 45.36         | 0.08   | 45.44          | 74       | -28.56 | peak       |
| 4804.000  | 37.59         | 0.08   | 37.67          | 54       | -16.33 | AVG        |
| 7206.000  | 40.41         | 2.21   | 42.62          | 74       | -31.38 | peak       |
| 7206.000  | 32.28         | 2.21   | 34.49          | 54       | -19.51 | AVG        |
|           |               |        |                | 60       |        |            |
| emark:    |               |        | (R)            |          | - GY   |            |

| EUT         | wireless earbuds | Model Name        | EP-T25         |
|-------------|------------------|-------------------|----------------|
| Temperature | 25°C             | Relative Humidity | 55.4%          |
| Pressure    | 960hPa           | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 7           | Antenna           | Vertical       |

| Meter Reading | Factor                            | Emission Level   | Limits  | Margin  | Value Type  |
|---------------|-----------------------------------|--|---|---|---|
| (dBµV)        | (dB)                              | (dBµV/m)   | (dBµV/m)  | (dB)  | value Type  |
| 44.89         | 0.08                              | 44.97  | 74  | -29.03  | peak  |
| 36.74         | 0.08                              | 36.82  | 54  | -17.18  | AVG   |
| 39.63         | 2.21                              | 41.84  | 74  | -32.16  | peak  |
| 30.51         | 2.21                              | 32.72  | 54  | -21.28  | AVG   |
| 0             |                                   |  | 50  | <u>O</u>  |   |
|               |                                   |  |   |   |   |
|               | (dBµV)<br>44.89<br>36.74<br>39.63 | (dBµV)         (dB)           44.89         0.08           36.74         0.08           39.63         2.21 | (dBµV)         (dB)         (dBµV/m)           44.89         0.08         44.97           36.74         0.08         36.82           39.63         2.21         41.84 | (dBµV)         (dB)         (dBµV/m)         (dBµV/m)           44.89         0.08         44.97         74           36.74         0.08         36.82         54           39.63         2.21         41.84         74 | (dBµV)         (dB)         (dBµV/m)         (dBµV/m)         (dB)           44.89         0.08         44.97         74         -29.03           36.74         0.08         36.82         54         -17.18           39.63         2.21         41.84         74         -32.16 |

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pasting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



#### Report No.: AGC08574210401FE03 Page 53 of 83

| EUT         | wireless earbuds | Model Name        | EP-T25         |
|-------------|------------------|-------------------|----------------|
| Temperature | 25°C             | Relative Humidity | 55.4%          |
| Pressure    | 960hPa           | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 8           | Antenna           | Horizontal     |

| Frequency | Meter Reading | Factor | Emission Level | Limits   | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz)     | (dBµV)        | (dB)   | (dBµV/m)       | (dBµV/m) | (dB)   | value Type |
| 4882.000  | 45.87         | 0.14   | 46.01          | 74       | -27.99 | peak       |
| 4882.000  | 38.52         | 0.14   | 38.66          | 54       | -15.34 | AVG        |
| 7323.000  | 41.39         | 2.36   | 43.75          | 74       | -30.25 | peak       |
| 7323.000  | 34.64         | 2.36   | 37             | 54       | -17    | AVG        |
| 0         |               |        |                | ®        |        |            |
|           |               |        |                |          | 0      |            |

| EUT         | wireless earbuds | Model Name        | EP-T25         |
|-------------|------------------|-------------------|----------------|
| Temperature | 25°C             | Relative Humidity | 55.4%          |
| Pressure    | 960hPa           | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 8           | Antenna           | Vertical       |

| Frequency     | Meter Reading      | Factor        | Emission Level | Limits   | Margin | Value Type |
|---------------|--------------------|---------------|----------------|----------|--------|------------|
| (MHz)         | (dBµV)             | (dB)          | (dBµV/m)       | (dBµV/m) | (dB)   | value Type |
| 4882.000      | 45.86              | 0.14          | 46             | 74       | -28    | peak       |
| 4882.000      | 37.35              | 0.14          | 37.49          | 54       | -16.51 | AVG        |
| 7323.000      | 40.22              | 2.36          | 42.58          | 74       | -31.42 | peak       |
| 7323.000      | 31.27              | 2.36          | 33.63          | 54       | -20.37 | AVG        |
| 8             |                    |               |                |          |        |            |
| - G           | 8                  |               |                |          | -      | R          |
| emark:        | - C                | 0             |                | - 6      |        | <u> </u>   |
| actor = Anter | nna Factor + Cable | e Loss – Pre- | amplifier      |          |        |            |

Sedicated Fest Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated restriction of the stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written exclosion of AGC presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. g/Inspection The test results the test report.



#### Report No.: AGC08574210401FE03 Page 54 of 83

| EUT         | wireless earbuds | Model Name        | EP-T25         |
|-------------|------------------|-------------------|----------------|
| Temperature | 25°C             | Relative Humidity | 55.4%          |
| Pressure    | 960hPa           | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 9           | Antenna           | Horizontal     |

| Frequency     | Meter Reading      | Factor        | Emission Level | Limits   | Margin              | Value Type  |
|---------------|--------------------|---------------|----------------|----------|---------------------|-------------|
| (MHz)         | (dBµV)             | (dB)          | (dBµV/m)       | (dBµV/m) | (dB)                | value Type  |
| 4960.000      | 46.67              | 0.22          | 46.89          | 74       | <sup>©</sup> -27.11 | peak        |
| 4960.000      | 38.95              | 0.22          | 39.17          | 54       | -14.83              | AVG         |
| 7440.000      | 41.41              | 2.64          | 44.05          | 74       | -29.95              | peak        |
| 7440.000      | 32.28              | 2.64          | 34.92          | 54       | -19.08              | AVG         |
| 0             |                    |               |                | ß        |                     |             |
| - C.          | 8                  |               |                | C.       | 8                   |             |
| emark:        | - 61               | 8             |                |          | - 6                 | 8           |
| actor = Anter | nna Factor + Cable | e Loss – Pre- | amplifier.     |          |                     | <i>c.</i> G |
|               |                    |               |                |          |                     |             |

| EUT         | wireless earbuds | Model Name        | EP-T25         |
|-------------|------------------|-------------------|----------------|
| Temperature | 25°C             | Relative Humidity | 55.4%          |
| Pressure    | 960hPa           | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 9           | Antenna           | Vertical       |

| equency | Meter Reading | Factor         | Emission Level | Limits   | Margin | Value Type |
|---------|---------------|----------------|----------------|----------|--------|------------|
| (MHz)   | (dBµV)        | (dB)           | (dBµV/m)       | (dBµV/m) | (dB)   | value Type |
| 60.000  | 45.86         | 0.22           | 46.08          | 74       | -27.92 | peak       |
| 60.000  | 38.65         | 0.22           | 38.87          | 54       | -15.13 | AVG        |
| 40.000  | 41.34         | 2.64           | 43.98          | 74       | -30.02 | peak       |
| 40.000  | 33.52         | 2.64           | 36.16          | 54       | -17.84 | AVG        |
|         |               | C <sup>C</sup> |                | ©        |        | 0          |
| ark:    |               |                |                | ©        | 0      |            |

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## **RESULT: PASS**

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Level-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been tested. The 8DPSK modulation is the worst case and recorded in the report.

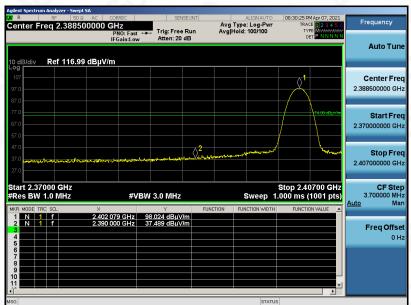
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Sedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



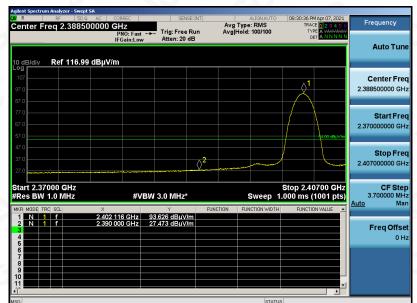
| EUT         | wireless earbuds | Model Name        | EP-T25         |  |
|-------------|------------------|-------------------|----------------|--|
| Temperature | 25°C             | Relative Humidity | 55.4%          |  |
| Pressure    | 960hPa           | Test Voltage      | Normal Voltage |  |
| Test Mode   | Mode 7           | Antenna           | Horizontal     |  |

#### TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

ΡK



AV



#### **RESULT: PASS**

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written exchanged by the Bedicated Festing/Inspection presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

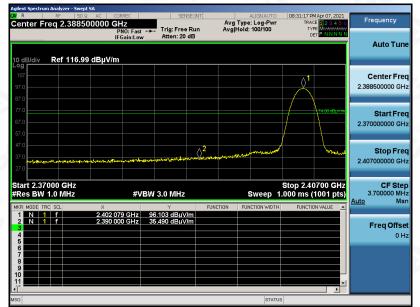
Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



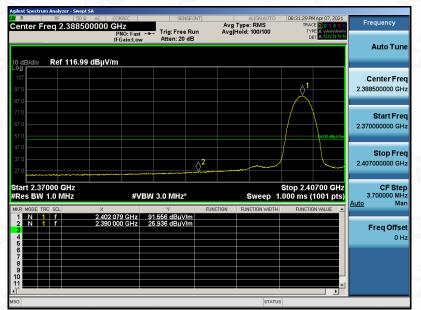
#### Report No.: AGC08574210401FE03 Page 56 of 83

| EUT         | wireless earbuds | Model Name        | EP-T25         |
|-------------|------------------|-------------------|----------------|
| Temperature | 25°C             | Relative Humidity | 55.4%          |
| Pressure    | 960hPa           | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 7           | Antenna           | Vertical       |

PK



AV



**RESULT: PASS** 

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written aphorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



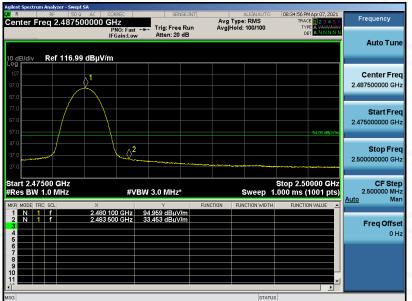
#### Report No.: AGC08574210401FE03 Page 57 of 83

| EUT         | wireless earbuds | Model Name        | EP-T25         |
|-------------|------------------|-------------------|----------------|
| Temperature | 25°C             | Relative Humidity | 55.4%          |
| Pressure    | 960hPa           | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 9           | Antenna           | Horizontal     |

PK

Frequency enter Freq 2.487500000 GHz Avg Type: Log-Pw Avg|Hold: 100/100 Trig: Free Run Atten: 20 dB PNO: Fast +++ IFGain:Low Auto Tun Ref 116.99 dBµV/m Center Fred 2.487500000 GHz Start Freq 2.475000000 GHz Stop Free 2.50000000 GH CF Step 2.500000 MH 2.47500 GHz BW 1.0 MHz #VBW 3.0 MHz Sweep 2.479 975 GHz 99.617 dBµV/m 2.483 500 GHz 44.153 dBµV/m Freq Offse 0 H;





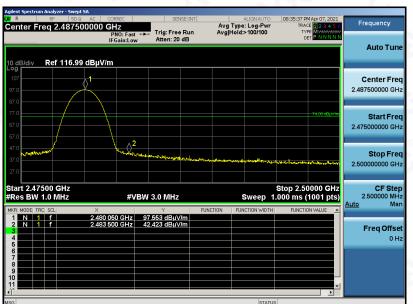
**RESULT: PASS** 

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE" he test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



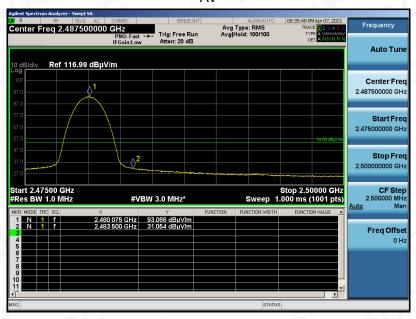
#### Report No.: AGC08574210401FE03 Page 58 of 83

| EUT         | wireless earbuds | Model Name EP-T25 |                |
|-------------|------------------|-------------------|----------------|
| Temperature | 25°C             | Relative Humidity | 55.4%          |
| Pressure    | 960hPa           | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 9           | Antenna           | Vertical       |



PK

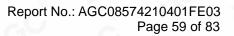
AV



#### **RESULT: PASS**

**Note**: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. The 8DPSK modulation is the worst case and recorded in the report.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the strend in the stamp of the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issue of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.





## **11. NUMBER OF HOPPING FREQUENCY**

## **11.1. MEASUREMENT PROCEDURE**

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.

2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

3. VBW  $\geq$  RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.

4. Allow the trace to stabilize.

#### **11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)**

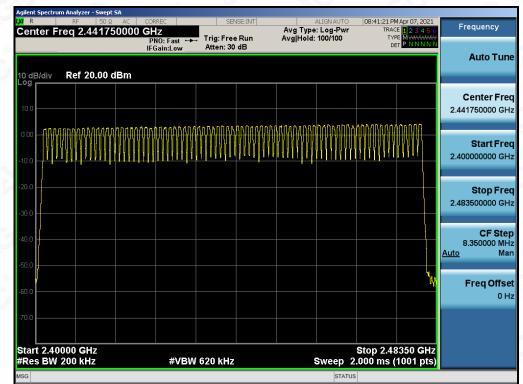
Same as described in section 8.2

#### **11.3. MEASUREMENT EQUIPMENT USED**

The same as described in section 6

#### **11.4. LIMITS AND MEASUREMENT RESULT**

| TOTAL NO. OF<br>HOPPING CHANNEL | LIMIT (NO. OF CH) | MEASUREMENT<br>(NO. OF CH) | RESULT |
|---------------------------------|-------------------|----------------------------|--------|
|                                 | >=15              | 79                         | PASS   |



TEST PLOT FOR NO. OF TOTAL CHANNELS

## Note: The GFSK modulation is the worst case and recorded in the report.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "bedicated resting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written aphorization of AGS". The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



## 12. TIME OF OCCUPANCY (DWELL TIME)

## **12.1. MEASUREMENT PROCEDURE**

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Zero span, centered on a hopping channel.

2. RBW shall be  $\leq$  channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.

3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.

4. Detector function: Peak. Trace: Max hold.

5. Use the marker-delta function to determine the transmit time per hop.

6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

## 12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

## 12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

## **12.4. LIMITS AND MEASUREMENT RESULT**

| Channel | Time of Pulse<br>for DH5<br>(ms) | Number of hops in the period specified in the requirements | Sweep Time<br>(ms) | Limit<br>(ms) |
|---------|----------------------------------|--|--------------------|---------------|
| Low     | 2.894                            | 29*4   | 335.704            | 400           |
| Middle  | 2.894                            | 27*4   | 312.552            | 400           |
| High    | 2.894                            | 28*4   | 324.128            | 400           |

Note: The 8DPSK modulation is the worst case and recorded in the report.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

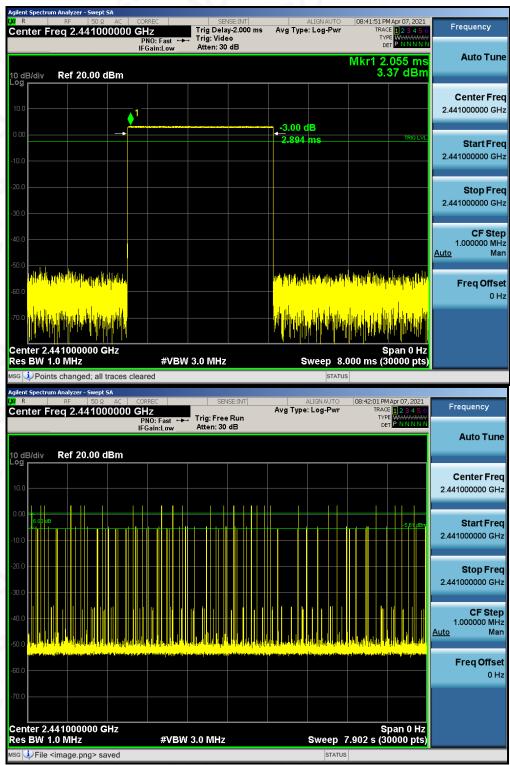


#### 08:41:31 PM Apr 07, 2021 Frequency Trig Delay-2.000 ms Trig: Video Atten: 30 dB Center Freq 2.402000000 GHz Avg Type: Log-Pwr PNO: Fast IFGain:Low Auto Tune 2.049 ms 2.43 dBm Mkr1 Ref 20.00 dBm 10 dB/div **Center Freq** 2.402000000 GHz -3.00 dB 2.894 ms Start Fred 2.40200000 GHz Stop Freq 2.402000000 GHz CF Step 1.000000 MHz <u>Auto</u> Man in dealer al links 2000, is internatively that dealer Freq Offset 0 Hz Center 2.402000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 8.000 ms (30000 pts) #VBW 3.0 MHz G iPoints changed; all traces cleared TATUS 08:41:41 PM Apr 07, 2021 Center Freq 2.402000000 GHz Fast IFGain:Low Frequency Avg Type: Log-Pwr Trig: Free Run Atten: 30 dB TYPE DET Auto Tune 10 dB/div Ref 20.00 dBm Center Frea 2.402000000 GHz Start Freq 2.402000000 GHz Stop Freq 2.40200000 GHz CF Step 1.000000 MHz Auto Mar **Freq Offset** 0 Hz Center 2.402000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 7.902 s (30000 pts) #VBW 3.0 MHz File <image.png> saved

## TEST PLOT OF LOW CHANNEL

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter approver, and AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.





## TEST PLOT OF MIDDLE CHANNEL

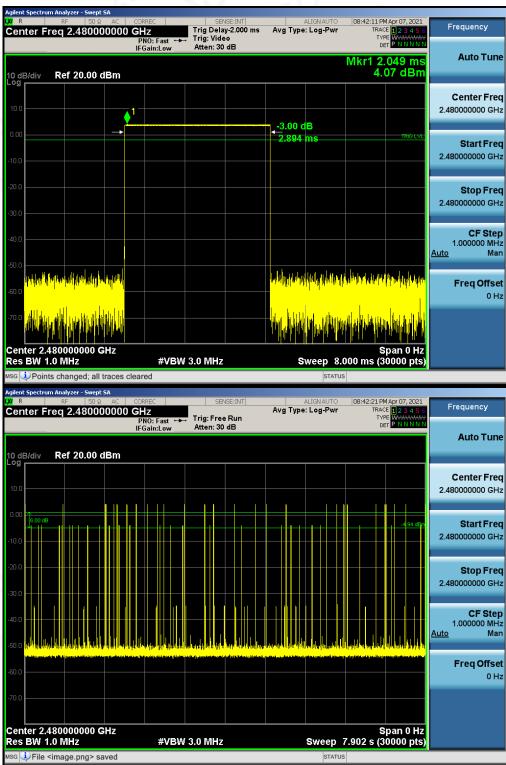
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter aphroization of AGC, the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day Saften the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com





## TEST PLOT OF HIGH CHANNEL

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter approver, and AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



## **13. FREQUENCY SEPARATION**

## **13.1. MEASUREMENT PROCEDURE**

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.

2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

3. Video (or average) bandwidth (VBW)  $\geq$  RBW.

4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

#### **13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)**

Same as described in section 6.2

#### **13.3. MEASUREMENT EQUIPMENT USED**

The same as described in section 6.3

#### 13.4. LIMITS AND MEASUREMENT RESULT

| CHANNEL      | CHANNEL<br>SEPARATION | LIMIT         | RESULT |  |
|--------------|-----------------------|---------------|--------|--|
|              | MHz                   |               | Data   |  |
| Hopping mode | 1.009                 | 2/3 *20 dB BW | Pass   |  |

#### 08:43:22 PM Apr 07, 2021 Frequency Center Freq 2.441000000 GHz Avg Type: Log-Pv AvgiHold: 100/100 Trig: Free Run Atten: 30 dB PNO: Fast IFGain:Lov Auto Tune Mkr1 2.442 199 GH 3.261 dBm Ref 20.00 dBm Center Fred 2.441000000 GHz Start Fred 2.439000000 GHz Stop Freq 2.443000000 GHz Center 2.441000 GHz #Res BW 300 kHz Span 4.000 MHz CF Step 400.000 kHz #VBW 300 kHz Sweep 1.066 ms (1000 pts) Auto 2.442 199 GHz 2.441 190 GHz 3.261 dBm 3.215 dBm **Freq Offset** 0 Hz

## Note: The GFSK modulation is the worst case and recorded in the report.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.

 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

#### TEST PLOT FOR FREQUENCY SEPARATION