

FCC Test Report

Report No.: AGC03709200801FE03

| FCC ID | : 2AW6V-M7 |
|---------------------|---|
| APPLICATION PURPOSE | : Original Equipment |
| PRODUCT DESIGNATION | : Tablet PC |
| BRAND NAME | : GOODTEL, FACETEL , YESTEL |
| MODEL NAME | : M7, G2, G3, G6, X2, X7, T5, Q3 |
| APPLICANT | : Shenzhenshi Haogemen Technology Co., Ltd. |
| DATE OF ISSUE | : Sep. 19, 2020 |
| STANDARD(S) | : FCC Part 15.247 |
| REPORT VERSION | : V1.0 |

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | . / | Sep. 19, 2020 | Valid | Initial Release |

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1. VERIFICATION OF CONFORMITY

| Applicant | Shenzhenshi Haogemen Technology Co., Ltd. | | |
|--|---|--|--|
| Applicant | 201, Building A, No. 5, Minle Road, Pinghu Community, Pinghu Street, | | |
| Address 201, Building A, No. 5, Minie Road, Pinghu Community, Pinghu Longgang District, Shenzhen | | | |
| Manufacturer | Shenzhenshi Haogemen Technology Co., Ltd. | | |
| Address | 201, Building A, No. 5, Minle Road, Pinghu Community, Pinghu Street, Longgang District, Shenzhen | | |
| Factory | Shenzhenshi Haogemen Technology Co., Ltd. | | |
| Address | 201, Building A, No. 5, Minle Road, Pinghu Community, Pinghu Street, Longgang District, Shenzhen | | |
| Product Designation | Tablet PC | | |
| Brand Name | GOODTEL, FACETEL, YESTEL | | |
| Test Model | M7 | | |
| Series Model | G2,G3,G6,X2,X7,T5,Q3 | | |
| Difference description All the series models are the same as the test model except for the monames and trademark. Trademark "GOODTEL" corresponds to model "M7, G2, G3, G6"; Trademark "YESTEL" corresponds to model "X2, X7, T5"; Trademark "FACETEL " corresponds to model "Q3" | | | |
| Date of test | Aug. 05, 2020 to Sep. 18, 2020 | | |
| Deviation | No any deviation from the test method | | |
| Condition of Test Sample | 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

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Erik Yang (Project Engineer)

Sep. 18, 2020

Max Zhang

Max Zhang

(Reviewer)

Reviewed By

Sep. 19, 2020

Approved By

former

Forrest Lei (Authorized Officer)

Sep. 19, 2020

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Tablet PC". 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

| Operation Frequency | 2.402 GHz to 2.480 GHz | |
|---------------------|--|--|
| RF Output Power | 4.545dBm (Max) | |
| Bluetooth Version | V 4.0 | |
| Modulation | BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps | |
| Number of channels | 79 | |
| Hardware Version | M107-MB-V1.1 | |
| Software Version | QP1A.190711.020 release-keys | |
| Antenna Designation | Integral Antenna (Comply with requirements of the FCC part 15.203) | |
| Antenna Gain | enna Gain 0.5dBi | |
| Power Supply | DC 3.8V by battery or DC 5V by adapter | |

2.2. TABLE OF CARRIER FREQUENCYS

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

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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: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

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. The second connection will be established. A new hopping sequence is generated. Due to the fact the

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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:** 2AW6V-M7filing 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.

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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 = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 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 = ± 2 %
- Uncertainty of Frequency: $Uc = \pm 2 \%$

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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.

4. The test software is the Engineering command which can set the EUT into the individual test modes.

5. For battery operated equipment, the battery is full charged during test.

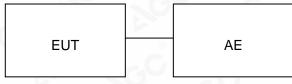
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:

| | w i | |
|-----|-----|----|
| EUT | | AE |
| | | |

5.2. EQUIPMENT USED IN TESTED SYSTEM

| ltem | Equipment | Model No. | ID or Specification | Remark |
|------|--------------|-------------|--|--------|
| 1 | Tablet PC | M7 | 2AW6V-M7 | EUT |
| 2 | Adapter | TC319U-5200 | Input: 100-240V, 50/60Hz, 0.35A Output:5V, 2A | AE |
| 3 | Charger line | N/A | 0.5m | AE |
| 4 | Earphone | N/A | 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 | Compliant |

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 E-mail: 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, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China | |
| Designation Number | CN1259 | |
| FCC Test Firm Registration Number | 975832 | |
| A2LA Cert. No. | 5054.02 | |
| Description | Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA | |

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|---------------|--------------|------------------|--------|--------------|--------------|
| TEST RECEIVER | R&S | ESPI | 101206 | May 15, 2020 | May 14, 2021 |
| LISN | R&S | ESH2-Z5 | 100086 | Jul. 03,2020 | Jul. 02,2022 |
| Test software | R&S | ES-K1(Ver.V1.71) | N/A | N/A | N/A |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------------|----------------|------------------------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | May 15, 2020 | May 14, 2022 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Dec. 12, 2019 | Dec. 11, 2020 |
| 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. 09, 2019 | Sep. 08, 2021 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | May 22, 2020 | May 21, 2022 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | May 17, 2019 | May 16, 2021 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Oct. 15, 2019 | Oct. 16, 2020 |
| ANTENNA | SCHWARZBECK | VULB9168 | 494 | Jan. 09, 2019 | Jan. 08, 2021 |
| Test software | FARA | EZ-EMC (Ver RA-03A) | N/A | N/A | N/A |

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

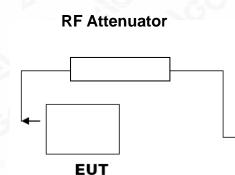
For peak power test:

- 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.

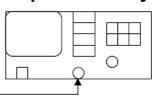
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

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

PEAK POWER TEST SETUP



Spectrum Analyzer



RF Cable

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7.3. LIMITS AND MEASUREMENT RESULT

| PEAK OUTPUT POWER MEASUREMENT RESULT | | | | | | |
|--------------------------------------|---------------------|----------------------------|--------------|--|--|--|
| FOR GFSK MOUDULATION | | | | | | |
| Frequency (GHz) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail | | | |
| 2.402 | 4.301 | 21 | Pass | | | |
| 2.441 | 3.555 | 21 | Pass | | | |
| 2.480 | 1.479 | 21 | Pass | | | |

CH0

| gilent Spectrum Analyzer - Swept SA | | | | |
|---|---|---------------------------------|--|-----------------------------------|
| RL RF 50 Ω AC Center Freq 2.402000000 | CORREC SENSE:PULSE | ALIGN AUTO Avg Type: Log-Pwr | 08:34:40 PM Aug 31, 2020 TRACE 1 2 3 4 5 6 | Frequency |
| 10 dB/div Ref 20.00 dBm | PNO: Fast + Trig: Free Run IFGain:Low Atten: 30 dB | Avg Hold: 100/100 Mkr1 | TRACE 1 2 3 4 5 6 TYPE MWWWWW DET PNNNNN 2.402 070 GHz 4.301 dBm | Auto Tune |
| | | | | Center Freq 2.402000000 GHz |
| 0.00 | | | | Start Freq 2.399500000 GHz |
| 30.0 | | | | Stop Freq 2.404500000 GHz |
| 40.0 | | | | CF Step 500.000 kH Auto Mar |
| 60.0 | | | | Freq Offse 0 H: |
| 70.0 Center 2.402000 GHz Res BW 1.5 MHz | #VBW 5.0 MHz | Sween 1 | Span 5.000 MHz .000 ms (1001 pts) | |
| | **IDW 5.0 WI12 | SWIGEP | | |

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CH78



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| PEAK OUTPUT POWER MEASUREMENT RESULT | | | | | |
|---|-------|----|------|--|--|
| FOR Π/4-DQPSK MODULATION Frequency (GHz) Peak Power (dBm) Applicable Limits (dBm) Pass or Fail | | | | | |
| 2.402 | 4.311 | 21 | Pass | | |
| 2.441 | 3.113 | 21 | Pass | | |
| 2.480 | 1.535 | 21 | Pass | | |

AGC®





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CH78

| Agilent Spectrum Analyzer - Swept SA | CORREC | SENSE:PULSE | ALIGN AUTO | 08:38:03 PM Aug 31, 2020 | |
|---------------------------------------|-------------|--------------|--|---------------------------------------|--|
| Center Freq 2.48000000 | 0 GHz | | Avg Type: Log-Pwr Avg Hold: 100/100 | TRACE 123456 TYPE MWWWWW | Frequency |
| | PNO: Fast 🔸 | Atten: 30 dB | | DET P NNNNN 2.479 885 GHz | Auto Tun |
| 10 dB/div Ref 20.00 dBm | | | | 1.535 dBm | |
| 10.0 | | .1 | | | Center Fre 2.480000000 GH |
| 0.00 | | | | | Start Fre |
| -10.0 | | | | | 2.477500000 GH |
| -30.0 | | | | | Stop Fre 2.482500000 GH |
| 40.0 | | | | | CF Ste 500.000 kl <u>Auto</u> M |
| 60.0 | | | | | Freq Offs |
| 70.0 | | | | | |
| Center 2.480000 GHz Res BW 1.5 MHz | #VBW | 5.0 MHz | Sweep | Span 5.000 MHz 1.000 ms (1001 pts) | |
| ISG | | | STATU | s | |

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| PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION | | | | |
|---|---------------------|----------------------------|--------------|--|
| Frequency (GHz) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail | |
| 2.402 | 4.545 | 21 | Pass | |
| 2.441 | 3.449 | 21 | Pass | |
| 2.480 | 1.732 | 21 | Pass | |

CH0



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CH78

| LXI RL | um Analyzer - Swept S/ RF 50 ג AC req 2.4800000 | CORREC | SENSE:PULSE | ALIGN AUT | | Frequency |
|--------------------------------|---|---------------------------|----------------------------------|-------------------|---------------------------------------|---|
| 10 dB/div | Ref 20.00 dBm | PNO: Fast 🔸 IFGain:Low | - Trig: Free Run Atten: 30 dB | Avg Hold: 100/100 | r1 2.480 000 GHz 1.732 dBm | Auto Tun |
| 10.0 | | | 1 | | | Center Fre 2.480000000 G⊦ |
| -10.0 | | | | | | Start Fre 2.477500000 G⊦ |
| -20.0 | | | | | | Stop Fre 2.482500000 G⊦ |
| -40.0 | | | | | | CF Ste 500.000 kł <u>Auto</u> Ma |
| -60.0 | | | | | | Freq Offs 0 H |
| -70.0 Center 2.4 #Res BW | 480000 GHz 1.5 MHz | #VBM | 5.0 MHz | Sweed | Span 5.000 MHz 1.000 ms (1001 pts) | |
| MSG | | | | STA | | |

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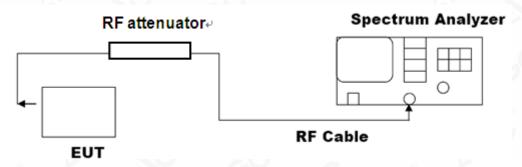


8. 20DB BANDWIDTH

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)



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8.3. LIMITS AND MEASUREMENT RESULTS

| MEASUREMENT RESULT FOR GFSK MOUDULATION | | | | | |
|---|----------------|--------------------|------|--|--|
| Annicable Limite | | Measurement Result | | | |
| Applicable Limits | Test Data | Test Data (MHz) | | | |
| N/A | Low Channel | 0.929 | PASS | | |
| | Middle Channel | 0.931 | PASS | | |
| | High Channel | 0.928 | PASS | | |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

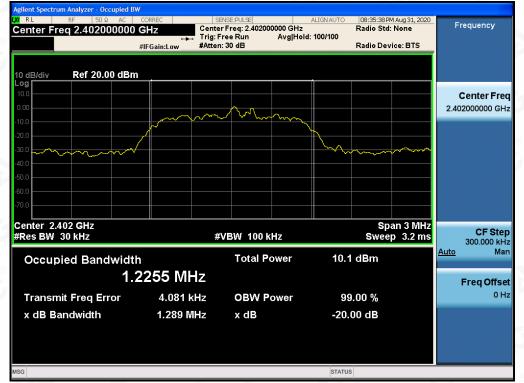


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| MEASURE | | OQPSK MODULATIO | N | |
|-------------------|----------------|------------------|------|--|
| Applicable Limita | | Measurement Resu | lt | |
| Applicable Limits | Test Data | Test Data (MHz) | | |
| N/A | Low Channel | 1.289 | PASS | |
| | Middle Channel | 1.287 | PASS | |
| | High Channel | 1.288 | PASS | |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

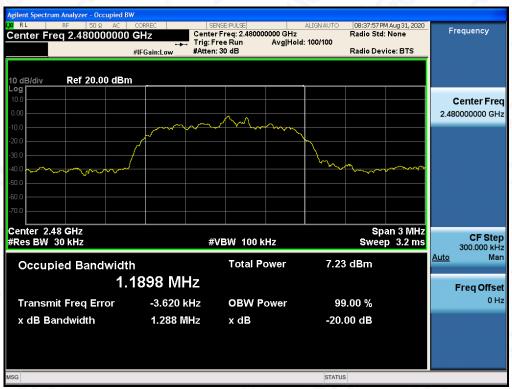


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

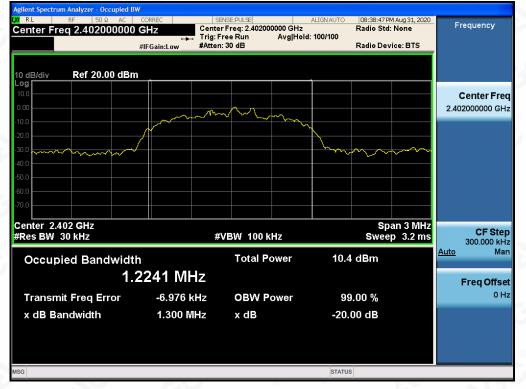


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| MEASUREMENT RESULT FOR 8-DPSK MODULATION | | | | | |
|--|----------------|-----------------|------|--|--|
| Measurement Result | | | | | |
| Applicable Limits | Test Da | Test Data (MHz) | | | |
| | Low Channel | 1.300 | PASS | | |
| N/A | Middle Channel | 1.294 | PASS | | |
| -C | High Channel | 1.297 | PASS | | |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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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.
- 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

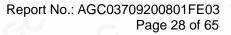
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEAS | SUREMENT RESULT | | | |
|---|--|----------|--|--|
| Annlinghig Limite | 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 Specified on the BOTTOM Channel | PASS | | |
| power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a)) | At least -20dBc than the limit Specified on the TOP Channel | PASS | | |

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TEST RESULT FOR ENTIRE FREQUENCY RANGE

TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL



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Report No.: AGC03709200801FE03 Page 29 of 65



| Agilent Spectrum Analyzer | | | | | | |
|--|-----------------------------|------------------------------------|----------|----------------------|--|--|
| Center Freq 13.7 | 50 Ω AC CORP 41750000 GH | 17 | | ALIGNAUTO | 08:46:59 PM Aug 31, 2020 TRACE 1 2 3 4 5 (| Frequency |
| 10 dB/div Ref 20. | | 0:Fast ↔ Trig:Fi ain:Low Atten: | | gjHold: 10/10 Mkt | 1 24.056 5 GHz -49.234 dBm | Auto Tune |
| Log 10.0 0.00 | | | | | | Center Freq 13.741750000 GHz |
| -20.0 -30.0 -40.0 | | | | | -17.66 dBm | Start Freq 2.483500000 GHz |
| -50.0 -60.0 m. (Ny <u>mana amin'</u> dia k a | | | | | | Stop Freq 25.000000000 GHz |
| Start 2.48 GHz #Res BW 100 kHz | X | #VBW 300 kH | FUNCTION | | Stop 25.00 GHz 2.152 s (30000 pts FUNCTION VALUE | CF Step 2.251650000 GHz <u>Auto</u> Man |
| 1 N 1 f 2 3 4 4 5 5 6 7 8 9 9 10 11 5 5 5 8 7 8 7 8 7 8 7 9 7 10 7 11 7 5 7 8 7 11 7 1 7 1 7 1 7 1 7 1 7 1 7 | 24.056 5 | GHz 49.234 | dBm | | | Freq Offset 0 Hz |

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 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 MIDDLE CHANNEL

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Report No.: AGC03709200801FE03 Page 31 of 65



| Center Freq 13.741750000 GHz PN0: Fast IFGsin:Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 10/10 Trig: Frequency Frequency 10 dB/div Ref 20.00 dBm | | um Analyzer - Sw | | | | | | | | | |
|--|--|---|----------|--|-------------|---|---------|-----------|------------|------------------------------------|---|
| PRO: Fast Production Perf PNNNNN IFGaint.ow Atten: 30 dB Mkr1 24,554 9 GHz 10 dB/div Ref 20.00 dBm -49,535 dBm 100 -49,535 dBm -49,535 dBm 2,48350000 G -40,0 -49,535 dBm -40,0 -49,535 dBm -49,535 dBm -50,0 -40,0 -49,535 dBm -60,0 -40,0 -49,535 dBm -50,0 -40,0 -49,535 dBm -70,0 -40,0 -49,535 dBm Start 2,48 GHz WBW 300 kHz Sweep 2,152 s (30000 pts) X Y FUNCTION FUNCTION WIDTH 2,3 -49,535 dBm -49,535 dBm 2,3 -49,535 dBm -49,535 dBm 2,3 -49,535 dBm -49,535 dBm 2,400 -49,535 dBm -49,535 dBm 2,5165000 G -40,535 dBm -49,535 dBm 1,1 <t< th=""><th>Center F</th><th></th><th></th><th></th><th></th><th>A</th><th>/g Type</th><th>: Log-Pwr</th><th>TRA</th><th>CE 123456</th><th>Frequency</th></t<> | Center F | | | | | A | /g Type | : Log-Pwr | TRA | CE 123456 | Frequency |
| Log | 10 dB/div | Ref 20.00 | IFG | | | | g Hold: | | 1 24.55 | et <mark>P NNNNN</mark> 4 9 GHz | Auto Tun |
| -20.0 -19.24 dtm 30.0 -24.00 40.0 -24.00 50.0 -25.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 6 -24.00 6 -24.00 6 -24.00 6 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 | 10.0 0.00 | | | | | | | | | | Center Fre 13.741750000 G⊦ |
| C0.0 Links C1.0 Stop Fr Stop F | -20.0 -30.0 | | | | | | | | | -19.24 dBm | Start Fre 2.483500000 G⊦ |
| #Res BW 100 kHz #VBW 300 kHz Sweep 2.152 s (30000 pts) 2.251650000 G MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE Auto 1 N 1 f 24.554 9 GHz -49.535 dBm Freq Offse Auto M 2 3 - < | -60.0 <mark>dente</mark> | | | ni and an internal da _n Alaman ang d | | | | | | | Stop Fre 25.000000000 G⊦ |
| 2 3 5 5 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | #Res BW | 100 kHz | | | Y | | | · · | 2.152 s (3 | 0000 pts) | CF Ste 2.251650000 G⊢ <u>Auto</u> Ma |
| 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 2 3 4 5 6 7 8 9 10 | f i | 24.554 9 | GHz | -49.535 dBm | | | | | | Freq Offs(0 ⊦ |

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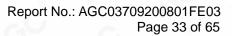
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com
 Web: http://cn.agc-cert.com/



| Agilent Spectrum Analyzer - S X RL RF 50 Center Freq 2.4800 | Ω AC CORREC | Trig: Free Run Atten: 30 dB | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 09:00:42 PM Aug 31, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N | Frequency |
|--|---|--------------------------------|--|--|--|
| 10 dB/div Ref 20.00 | | Hach of us | Mkr1 2. | 479 841 7 GHz -0.404 dBm | Auto Tu |
| 10 dB/div Ref 20.00 | | | | | Center Fr |
| 0.00 | | mann | | | 2.480000000 G |
| 20.0 | | | | | Start Fr |
| -30.0 | | | | Mun | 2.478500000 G |
| -50.0 | | | | | Stop Fr |
| 70.0 | | | | | 2.481500000 G |
| Center 2.480000 GH #Res BW 100 kHz | | V 300 kHz | Sweep 2.0 | Span 3.000 MHz 00 ms (30000 pts) | CF St 300.000 k |
| MKR MODE TRC SCL | × 2.479 841 7 GHz | Y FI -0.404 dBm | JNCTION FUNCTION WIDTH | FUNCTION VALUE | Auto M |
| 2 3 4 5 | 2.4/3 0417 GHZ | -0.404 (IBIII | | | Freq Offs 0 |
| 6 7 8 | | | | | |
| 9 10 11 | | | | × | |
| sg | | | STATUS | > | |
| Agilent Spectrum Analyzer - S | Sugart CA | | | | |
| X/RL RF 50 | Ω AC CORREC | SENSE:PULSE | ALIGNAUTO | 09:01:13PM Aug 31, 2020 | Frequency |
| Center Freq 1.2150 | 000000 GHz PNO: Fast ↔ IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 | ricquericy |
| | | Atten: 30 dB | Argineta, terte | TYPE MWWWWW DET PNNNNN | |
| 0 dB/div Ref 20.00 | | Atten: 30 dB | | 2.393 92 GHz -57.199 dBm | Auto Tu |
| 10 dB/div Ref 20.00 | | Atten: 30 dB | | 2.393 92 GHz | |
| -og 10.0 0.00 | | Atten: 30 dB | | 2.393 92 GHz | Center Fr |
| • • • • • • • • • • • • • • • • • • • | | Atten: 30 dB | | 2.393 92 GHz | Center Fr 1.215000000 G |
| • 9 10.0 0.00 10.0 20.0 30.0 | | Atten: 30 dB | | 2.393 92 GHz -57.199 dBm | Center Fr 1.21500000 G Start Fr |
| og 10.0 0.00 10.0 20.0 30.0 40.0 50.0 | | Atten: 30 dB | | 2.393 92 GHz -57.199 dBm | Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr |
| - og 10.0 0.00 | | | | 2.393 92 GHz -57.199 dBm | Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr |
| -og 10.0 000 10.0 20.0 40.0 50 | | Atten: 30 dB | | 2.393 92 GHz -57.199 dBm | Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr 2.40000000 G |
| • 09 | | V 300 kHz | | 2.393 92 GHz -57.199 dBm -20.40 dBm -20.40 dBm -1 -20.40 dBm -1 Stop 2.400 GHz | Center Fr 1.21500000 G Start Fr 30.00000 M Stop Fr 2.40000000 G CF St 237.00000 M |
| • 09 |) dBm | V 300 KHz | Mkr Mkr Sweep 228 | 2.393 92 GHz -57.199 dBm -2040 dBm - | Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr 2.40000000 G CF St 237.00000 M <u>Auto</u> M |
| • 09 | | V 300 kHz | Mkr Mkr Sweep 228 | 2.393 92 GHz -57.199 dBm -2040 dBm - | Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr 2.40000000 G CF St 237.00000 M Auto M |
| • 09 | | V 300 kHz | Mkr Mkr Sweep 228 | 2.393 92 GHz -57.199 dBm -2040 dBm - | Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr 2.40000000 G CF St 237.00000 M Auto M |
| • • • • • • • • • • • • • • • • • • • | | V 300 kHz | Mkr Mkr Sweep 228 | 2.393 92 GHz -57.199 dBm -2040 dBm - | Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr 2.40000000 G CF St 237.00000 M Auto M |
| • og | | V 300 kHz | Mkr Mkr Sweep 228 | 2.393 92 GHz -57.199 dBm -2040 dBm - | Auto Tu Center Fr 1.215000000 G Start Fr 30.00000 M Stop Fr 2.400000000 G CF Sto 237.00000 M Auto M Freq Offs 0 |

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

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| | | trum | | ilyzer - S | | | | | | | | | | | | | | | | | | |
|---------------|-------|------|-----|---------------|----|------|---------------------|-------------------|----|------------------------|--------|--|-------|-------|-----------------------|---------|-------|---------------------------------------|---------|------|----------|---------|
| (X) RI Cen | | Fre | RF | 50 3.750 | | | | | | SENS | E:PULS | 3E | Avg | | LIGNAUTO | | | I Aug 31, : E <mark>1 2 3</mark> - | | | Freque | ency |
| | cor. | | 9. | 0.100 | | 5000 | PNO |): Fast in:Low | | Trig: Fre Atten: 30 | | י | Avgļ⊦ | loid: | 10/10 | | TYP | E M UMAN T P N N I | AHAHAH | | | |
| | _ | _ | - | | _ | | IFGa | III.LUW | | Theefile of | , ab | | | _ | Mkr | 1 24. | 976 | 0.6 | | | Aut | o Tune |
| 10 di | Ridiv | | Ref | 20.00 | dB | m | | | | | | | | | IVINI | | | 67 dE | | | | |
| Log | | | | | | | | | | | | | | | | | | | | | | |
| 10.0 | | | | | | | | | | | | | | | | | | | | | | er Freq |
| 0.00 | | | | | | | | | | | | | | | | | | | | 13. | 750000 | 000 GHz |
| -10.0 | | | | | | | | | | | | | | | | | | -20.40 |) d Bro | | | |
| -20.0 | | | | | | | | | | | | | | | | | | -20.40 | , abri | | Sta | nt Freq |
| -30.0 | | | | | | | | | | | | | | | | | | | | 2. | 500000 | 000 GHz |
| -40.0 | | | | | | | | | | | | | | | | | | | -1 | | | |
| -50.0 | | | | | | | | | | | | a particular and the | | ار | وروار والمتحالين | | d u | | | | Sto | p Freq |
| -60.0 | and a | | | | | | <mark>e P</mark> el | late line in | | | | and the second s | | | and the second second | | | | | 25.0 | | 000 GHz |
| -70.0 | | | | | | | | | | | | | | | | | | | | | | |
| Star | t 2.5 | 50 G | Hz | | | | | | | ^ | | | | | 1 | Sto | p 2: | 5.00 G | Hz | | C | F Step |
| #Re: | s BV | V 11 | 00 | kHz | | | | #V | BW | 300 kHz | 2 | | | | Sweep | 2.152 9 | i (3 | 0000 | ots) | | 250000 | 000 GHz |
| MKR | | | | | | Х | | | | Y | | FUN | CTION | FUN | ICTION WIDTH | FU | NCTIO | N VALUE | ^ | Auto | <u>1</u> | Man |
| 1 | Ν | 1 | f | | | 24.9 | 760 | GHz | | -49.267 d | Bm | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | Freq | Offset |
| 5 | | | | | | | | | | | | | | | | | | | = | | | 0 Hz |
| 6 | | | | | | | | \rightarrow | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | > | | | |
| MSG | | | | | | | | | | | | | | | STATU | S | | | | | | |

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

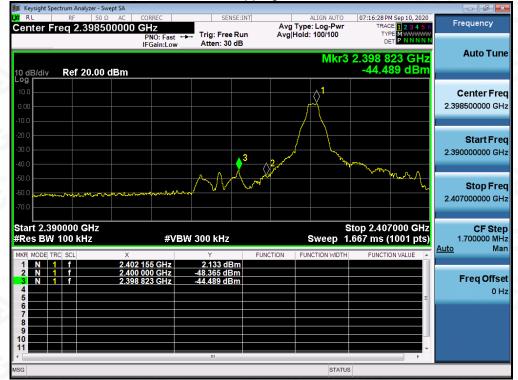
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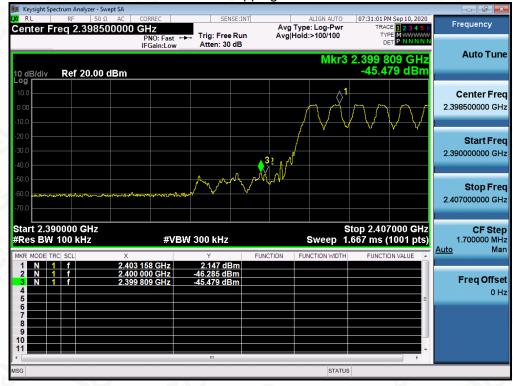
TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

Hopping off

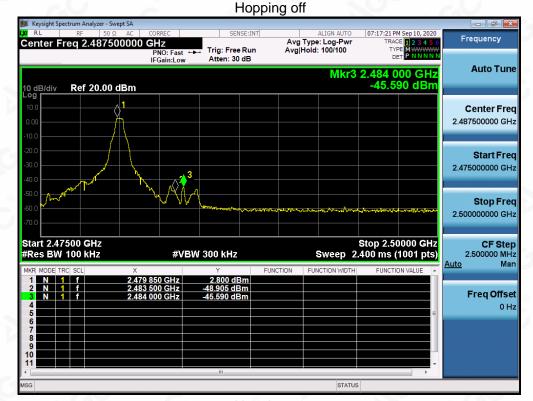


Hopping on



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GFSK MODULATION IN HIGH CHANNEL

Hopping on



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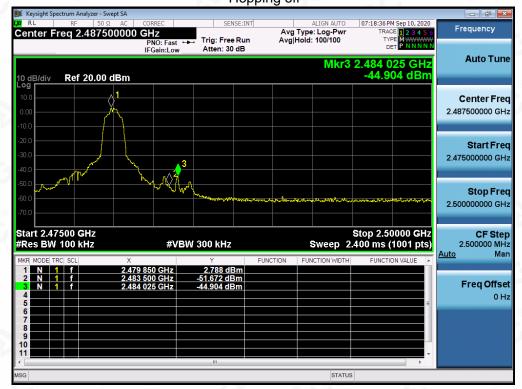
π /4-DQPSK MODULATION IN LOW CHANNEL10 Hopping off

Hopping on



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π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on



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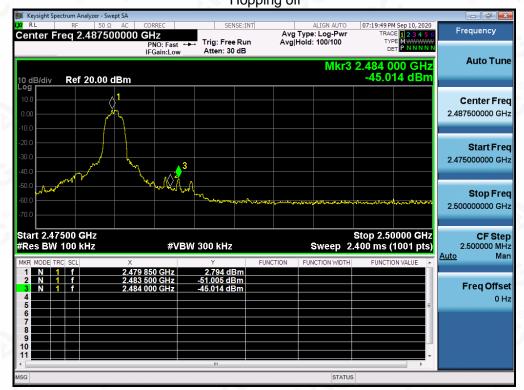
8-DPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on



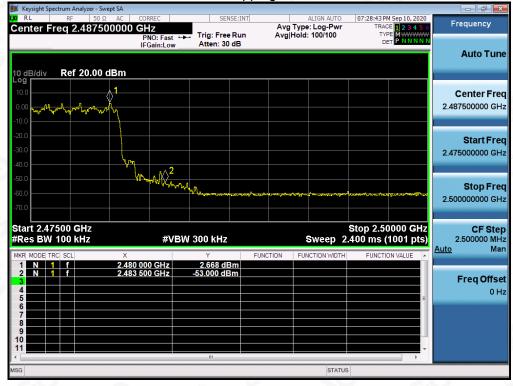
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8-DPSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on



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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.

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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 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 |

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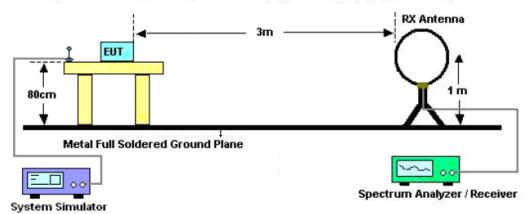
 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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

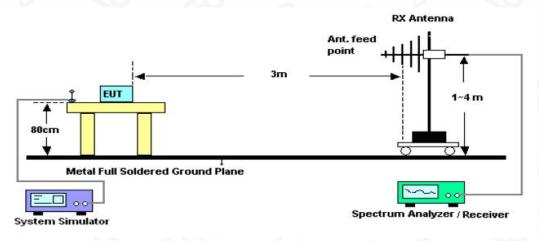


10.2. TEST SETUP

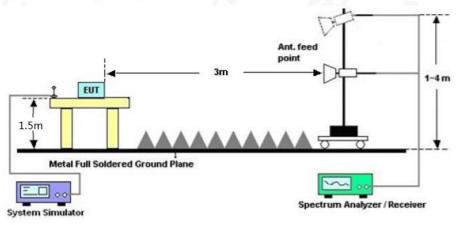
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (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.

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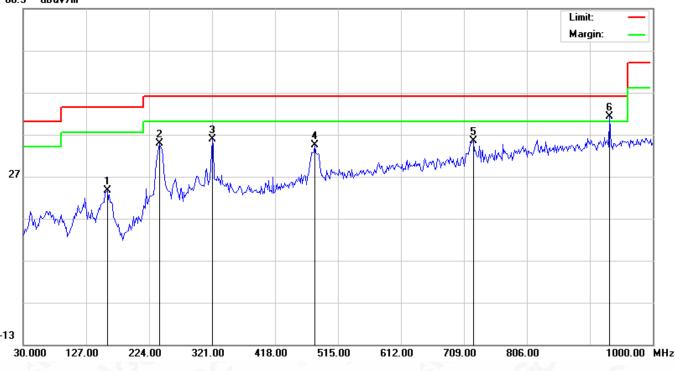


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RADIATED EMISSION BELOW 1GHz

| EUT | Tablet PC | Model Name | M7 |
|-------------|-----------|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 4 | Antenna | Horizontal |

66.9 dBuV/m



| No. Mk. Freq. Reading Level Correct Factor Measure- ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector 1 159.3333 4.52 19.02 23.54 43.50 -19.96 peak 2 240.1667 16.15 18.66 34.81 46.00 -11.19 peak 3 321.0000 14.34 21.37 35.71 46.00 -10.29 peak 4 479.4333 10.27 24.17 34.44 46.00 -11.56 peak 5 723.5500 6.78 28.68 35.46 46.00 -10.54 peak 6 * 933.7167 9.31 31.99 41.30 46.00 -4.70 peak | | | | | | | | | |
|--|-----|----|----------|-------|-------|--------|--------|--------|----------|
| 1 159.3333 4.52 19.02 23.54 43.50 -19.96 peak 2 240.1667 16.15 18.66 34.81 46.00 -11.19 peak 3 321.0000 14.34 21.37 35.71 46.00 -10.29 peak 4 479.4333 10.27 24.17 34.44 46.00 -11.56 peak 5 723.5500 6.78 28.68 35.46 46.00 -10.54 peak | No. | Mk | . Freq. | - | | | Limit | Over | |
| 2 240.1667 16.15 18.66 34.81 46.00 -11.19 peak 3 321.0000 14.34 21.37 35.71 46.00 -10.29 peak 4 479.4333 10.27 24.17 34.44 46.00 -11.56 peak 5 723.5500 6.78 28.68 35.46 46.00 -10.54 peak | | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector |
| 3 321.0000 14.34 21.37 35.71 46.00 -10.29 peak 4 479.4333 10.27 24.17 34.44 46.00 -11.56 peak 5 723.5500 6.78 28.68 35.46 46.00 -10.54 peak | 1 | | 159.3333 | 4.52 | 19.02 | 23.54 | 43.50 | -19.96 | peak |
| 4 479.4333 10.27 24.17 34.44 46.00 -11.56 peak 5 723.5500 6.78 28.68 35.46 46.00 -10.54 peak | 2 | | 240.1667 | 16.15 | 18.66 | 34.81 | 46.00 | -11.19 | peak |
| 5 723.5500 6.78 28.68 35.46 46.00 -10.54 peak | 3 | | 321.0000 | 14.34 | 21.37 | 35.71 | 46.00 | -10.29 | peak |
| | 4 | | 479.4333 | 10.27 | 24.17 | 34.44 | 46.00 | -11.56 | peak |
| 6 * 933.7167 9.31 31.99 41.30 46.00 -4.70 peak | 5 | | 723.5500 | 6.78 | 28.68 | 35.46 | 46.00 | -10.54 | peak |
| | 6 | * | 933.7167 | 9.31 | 31.99 | 41.30 | 46.00 | -4.70 | peak |

RESULT: PASS

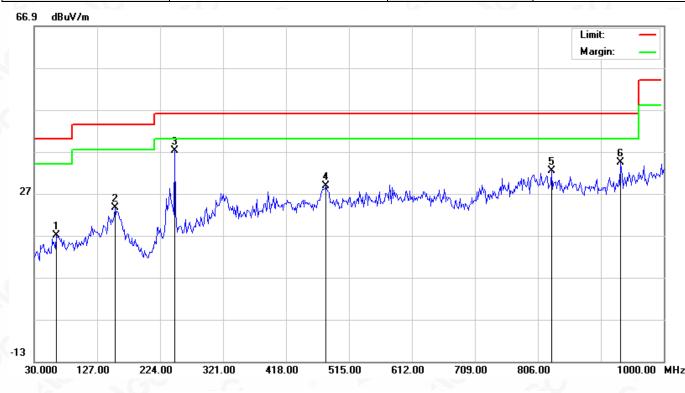
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| EUT | Tablet PC | Model Name | M7 |
|-------------|-----------|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 4 | Antenna | Vertical |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 63.9500 | 0.60 | 16.36 | 16.96 | 40.00 | -23.04 | peak |
| 2 | | 154.4832 | 4.40 | 19.20 | 23.60 | 43.50 | -19.90 | peak |
| 3 | * | 246.6333 | 18.75 | 18.54 | 37.29 | 46.00 | -8.71 | peak |
| 4 | | 479.4333 | 4.25 | 24.58 | 28.83 | 46.00 | -17.17 | peak |
| 5 | | 827.0167 | 2.80 | 29.68 | 32.48 | 46.00 | -13.52 | peak |
| 6 | | 933.7167 | 5.11 | 29.34 | 34.45 | 46.00 | -11.55 | peak |

RESULT: PASS

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

2. All test modes had been pre-tested. The mode 4 is the worst case and recorded in the report.

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Report No.: AGC03709200801FE03 Page 46 of 65

RADIATED EMISSION ABOVE 1GHz

| EUT | Tablet PC | Model Name | M7 |
|-------------|-----------|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Horizontal |

| Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---------------|-----------------------------------|--|---|---|---|
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 46.59 | 0.08 | 46.67 | 74 | -27.33 | peak |
| 37.48 | 0.08 | 37.56 | 54 | -16.44 | AVG |
| 41.23 | 2.21 | 43.44 | 74 | -30.56 | peak |
| 32.12 | 2.21 | 34.33 | 54 | -19.67 | AVG |
| | | | | | 0 |
| | - | | | - CV | - |
| | (dBµV) 46.59 37.48 41.23 | (dBµV) (dB) 46.59 0.08 37.48 0.08 41.23 2.21 | (dBµV) (dB) (dBµV/m) 46.59 0.08 46.67 37.48 0.08 37.56 41.23 2.21 43.44 | (dBµV) (dB) (dBµV/m) (dBµV/m) 46.59 0.08 46.67 74 37.48 0.08 37.56 54 41.23 2.21 43.44 74 | (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 46.59 0.08 46.67 74 -27.33 37.48 0.08 37.56 54 -16.44 41.23 2.21 43.44 74 -30.56 |

| EUT | Tablet PC | Model Name | M7 |
|-------------|-----------|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | ⊖ (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4804.000 | 46.28 | 0.08 | 46.36 | 74 | -27.64 | peak |
| 4804.000 | 35.47 | 0.08 | 35.55 | 54 | -18.45 | AVG |
| 7206.000 | 39.94 | 2.21 | 42.15 | 74 | -31.85 | peak |
| 7206.000 | 30.03 | 2.21 | 32.24 | 54 | -21.76 | AVG |
| | ® | | 6 | G | 9 | |
| | | | | | | |

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| EUT | Tablet PC | Model Name | M7 |
|-------------|-----------|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 2 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4882.000 | 45.68 | 0.14 | 45.82 | 74 | -28.18 | peak |
| 4882.000 | 36.42 | 0.14 | 36.56 | 54 | -17.44 | AVG |
| 7323.000 | 40.18 | 2.36 | 42.54 | 74 | -31.46 | peak |
| 7323.000 | 30.44 | 2.36 | 32.8 | 54 | -21.2 | AVG |
| 3 | | | | 8 | | |
| | 8 | | | | 0 | |

| EUT | Tablet PC | Model Name | M7 |
|-------------|-----------|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 2 | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|--------------|--------------------|----------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4882.000 | 46.17 | 0.14 | 46.31 | 74 | -27.69 | peak |
| 4882.000 | 37.23 | 0.14 | 37.37 | 54 | -16.63 | AVG |
| 7323.000 | 40.47 | 2.36 | 42.83 | 74 | -31.17 | peak |
| 7323.000 | 31.07 | 2.36 | 33.43 | 54 | -20.57 | AVG |
| 6 | 8 | | C I | 0 | | |
| emark: | G | 8 | | 7 . 6 | | |
| ctor = Anter | nna Factor + Cable | e Loss – Pre-a | amplifier. | | | |

Compliances Dedicated Fes 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.



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| EUT | Tablet PC | Model Name | M7 |
|-------------|-----------|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Antenna | Horizontal |
| | | | |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---------------|-------------------|-------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4960.000 | 48.23 | 0.22 | 48.45 | 74 | -25.55 | peak |
| 4960.000 | 38.47 | 0.22 | 38.69 | 54 | -15.31 | AVG |
| 7440.000 | 42.38 | 2.64 | 45.02 | 74 | -28.98 | peak |
| 7440.000 | 31.96 | 2.64 | 34.6 | 54 | -19.4 | AVG |
| ® | | (| | C | | |
| C | 3 | | | <u> </u> | 8 | |
| emark: | - 6 | 8 | | ~G~ | - 6 | 8 |
| actor = Anter | na Factor + Cable | Loss - Pre- | amplifier. | | | - C |

EUT Tablet PC **Model Name** M7 21.8°C Temperature **Relative Humidity** 58% Pressure 960hPa **Test Voltage** Normal Voltage **Test Mode** Mode 3 Vertical Antenna

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---------------|--------------------|-------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4960.000 | 46.29 | 0.22 | 46.51 | 74 | -27.49 | peak |
| 4960.000 | 34.13 | 0.22 | 34.35 | 54 | -19.65 | AVG |
| 7440.000 | 41.27 | 2.64 | 43.91 | 74 | -30.09 | peak |
| 7440.000 | 30.54 | 2.64 | 33.18 | 54 | -20.82 | AVG |
| | | -00- | 3 | | | GU |
| emark: | | | 100 | .C | 0 | |
| ictor = Anter | nna 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, Over=Measure-Limit.

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

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

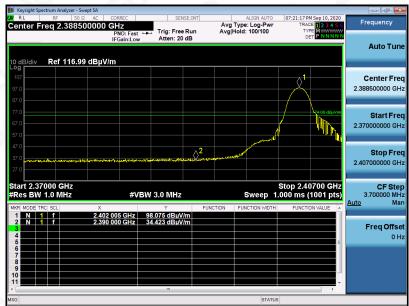
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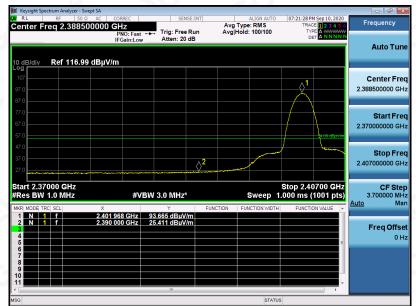
| 0 | TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS | | | | | |
|---|---|--|--|-------|--|--|
| | TILLER | | | N 4-7 | | |

| EUT | Tablet PC | Model Name | M7 |
|-------------|-----------|-------------------|----------------|
| Temperature | 21.8°C | Relative Humidity | 58% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Horizontal |

PK



AV



RESULT: PASS

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