

FCC Test Report

Report No.: AGC01284210302FE02

| FCC ID | 8 | T4K-588UVBPLUS |
|---------------------|--------|---|
| APPLICATION PURPOSE | : | Original Equipment |
| PRODUCT DESIGNATION | : | Dual Band Mobile Radio |
| BRAND NAME | ; | AnyTone |
| MODEL NAME | i | 588UVB PLUS, 588UVE PLUS, DB-750X, 5888UV, 588UVPLUS |
| APPLICANT | : | Qixiang Electron Science & Technology Co., Ltd. |
| DATE OF ISSUE | © • | May. 13, 2021 |
| STANDARD(S) | : | FCC Part 15.247 |
| REPORT VERSION | : | V1.0 |





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Report No.: AGC01284210302FE02 Page 2 of 43

REPORT REVISE RECORD

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

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Report No.: AGC01284210302FE02 Page 3 of 43

TABLE OF CONTENTS

| 1. VERIFICATION OF COMPLIANCE | |
|---|----|
| 2. GENERAL INFORMATION | |
| 2.1. PRODUCT DESCRIPTION | 6 |
| 2.2. TABLE OF CARRIER FREQUENCYS | |
| 2.3. RELATED SUBMITTAL(S)/GRANT(S) | 7 |
| 2.4. TEST METHODOLOGY | |
| 2.5. SPECIAL ACCESSORIES | 7 |
| 2.6. EQUIPMENT MODIFICATIONS | |
| 2.7. ANTENNA REQUIREMENT | |
| 3. MEASUREMENT UNCERTAINTY | |
| 4. DESCRIPTION OF TEST MODES | |
| 5. SYSTEM TEST CONFIGURATION | |
| 5.1. CONFIGURATION OF TESTED SYSTEM | |
| 5.2. EQUIPMENT USED IN TESTED SYSTEM | |
| 5.3. SUMMARY OF TEST RESULTS | |
| 6. TEST FACILITY | |
| 7. PEAK OUTPUT POWER | |
| 7.1. MEASUREMENT PROCEDURE | |
| 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) | |
| 7.3. LIMITS AND MEASUREMENT RESULT | |
| 8. 6 DB BANDWIDTH | 15 |
| 8.1. MEASUREMENT PROCEDURE | |
| 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) | 15 |
| 8.3. LIMITS AND MEASUREMENT RESULTS | |
| 9. CONDUCTED SPURIOUS EMISSION | |
| 9.1. MEASUREMENT PROCEDURE | |
| 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) | 17 |
| 9.3. MEASUREMENT EQUIPMENT USED | |
| 9.4. LIMITS AND MEASUREMENT RESULT | |
| 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY | |
| 10.1. MEASUREMENT PROCEDURE | |
| 10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) | |
| 10.3. MEASUREMENT EQUIPMENT USED | |
| 10.4. LIMITS AND MEASUREMENT RESULT | 25 |
| | |

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Report No.: AGC01284210302FE02 Page 4 of 43

| 11. RADIATED EMISSION | |
|---|----|
| 11.1. MEASUREMENT PROCEDURE | 27 |
| 11.2. TEST SETUP | 28 |
| 11.3. LIMITS AND MEASUREMENT RESULT | 29 |
| 11.4. TEST RESULT | 29 |
| 12. FCC LINE CONDUCTED EMISSION TEST | |
| 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST | |
| 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST | |
| 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST | 40 |
| 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST | 40 |
| 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST | 41 |
| APPENDIX A: PHOTOGRAPHS OF TEST SETUP | |
| APPENDIX B: PHOTOGRAPHS OF EUT | |

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1. VERIFICATION OF COMPLIANCE

| Qixiang Electron Science & Technology Co., Ltd. | | |
|--|--|--|
| Qixiang Building, Tangxi Industrial Zone, Luojiang District, Quanzhou, Fujian, China | | |
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| Qixiang Electron Science & Technology Co., Ltd. | | |
| Qixiang Building, Tangxi Industrial Zone, Luojiang District, Quanzhou, Fujian, China | | |
| Dual Band Mobile Radio | | |
| AnyTone | | |
| 588UVB PLUS | | |
| 588UVE PLUS, DB-750X, 5888UV, 588UVPLUS | | |
| All the same except the model name. | | |
| Mar. 22, 2021~May 13, 2021 | | |
| No any deviation from the test method | | |
| Normal | | |
| Pass | | |
| AGCRT-US-BLE/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

IM HICO

Donjon Huang (Project Engineer)

May 13, 2021

Reviewed By

vin Lin

Calvin Liu (Reviewer)

Forrest Lei

Authorized Officer

May 13, 2021

Approved By

orrost 12

May 13, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Dual Band Mobile Radio". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

| Operation Frequency | 2.402 GHz to 2.480GHz |
|---------------------|--|
| RF Output Power | 1.988dBm (Max) |
| Bluetooth Version | V 4.2 |
| Modulation | BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ⊠GFSK 1Mbps □GFSK 2Mbps |
| Number of channels | 40 Channel |
| Antenna Designation | PCB Antenna (Comply with requirements of the FCC part 15.203) |
| Antenna Gain | 2.5dBi |
| Hardware Version | QX588UV-MBP |
| Software Version | V1.0 |
| Power Supply | DC 13.8V |

2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| | 0 | 2402 MHz |
| 0 | | 2404 MHz |
| 2400~2483.5MHz | | |
| | 38 | 2478 MHz |
| | 39 | 2480 MHz |

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

This submittal(s) (test report) is intended for FCC ID: T4K-588UVBPLUS filing to comply with the FCC Part 15.247 requirements.

2.4. 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.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. 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 $\pm U$, 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 RF power density, conducted, Uc = ±2.6 dB
- Uncertainty of spurious emissions, conducted, $Uc = \pm 2.7 \text{ dB}$
- Uncertainty of Occupied Channel Bandwidth: $Uc = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|-----|-----------------------|
| 1 | Low channel TX |
| 2 | Middle channel TX |
| 3 | High channel TX |

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 bluetool_1.9.3.4_setup which can set the EUT into the individual test modes.

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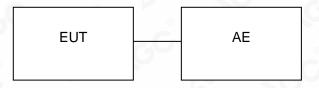
Web: http://cn.agc-cert.com/



5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

| Item | m Equipment Model No. | | ID or Specification | Remark |
|------|------------------------|-------------|---------------------|--------|
| 1 | Dual Band Mobile Radio | 588UVB PLUS | T4K-588UVBPLUS | EUT |
| 2 | Hand microphone | N/A | 1.5m, Unshielded | AE |
| 3 | DC Line | N/A | 1.9m, Unshielded | AE |

5.3. SUMMARY OF TEST RESULTS

| FCC RULES DESCRIPTION OF TEST | | RESULT |
|-------------------------------|--|-----------|
| 15.247 (b)(3) | Peak Output Power | Compliant |
| 15.247 (a)(2) | 6 dB Bandwidth | Compliant |
| 15.247 (d) | Conducted Spurious Emission | Compliant |
| 15.247 (e) | Maximum Conducted Output Power Density | Compliant |
| 15.209 | Radiated Emission | Compliant |
| 15.207 | 15.207 Conducted Emission | |

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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 RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------------|----------------|----------------------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | May 15, 2020 | May 14, 2021 |
| EXA Signal 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 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 | Sep. 03, 2020 | Sep. 02, 2022 |
| ANTENNA | SCHWARZBECK | VULB9168 | 494 | Jan. 08, 2021 | Jan. 07, 2023 |
| Test software | Tonscend | JS32-RE (Ver.2.5) | N/A | N/A | N/A |

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7. PEAK OUTPUT POWER

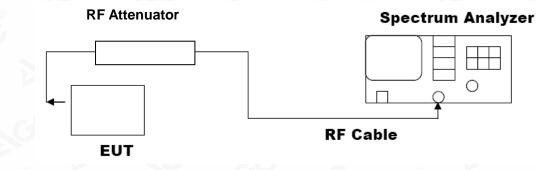
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 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



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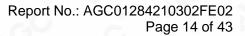
7.3. LIMITS AND MEASUREMENT RESULT

| | PEAK OUTPUT POWER MEASUREMENT RESULT | | | | | |
|--------------------|--------------------------------------|------|------|--|--|--|
| | FOR GFSK MOUDULA | TION | | | | |
| Frequency (GHz) | Pass or Fai | | | | | |
| 2.402 | 1.045 | 30 | Pass | | | |
| 2.440 | 1.988 | 30 | Pass | | | |
| 2.480 | -0.188 | 30 | Pass | | | |

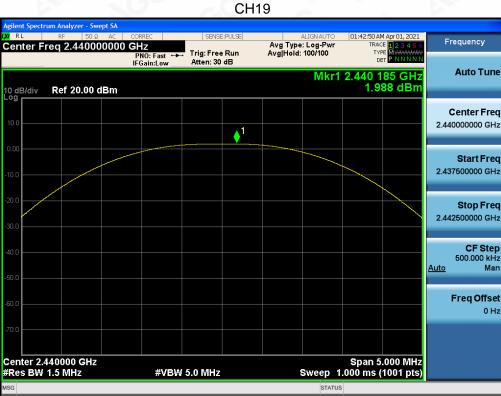
CH0

| Agilent Spectr | um Analyzer - Swept S/ | | | | | |
|--------------------------------|-----------------------------|---------------------------|--------------|--|--|--|
| | RF 50 Ω AC req 2.4020000 | 00 GHz | SENSE:PULSE | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 | 01:31:51 AM Apr 01, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW | Frequency |
| 10 dB/div Log | Ref 20.00 dBm | PNO: Fast 🔸 IFGain:Low | Atten: 30 dB | 5. | 2.402 175 GHz 1.045 dBm | Auto Tune |
| 10.0 | | | | | | Center Free 2.402000000 GH |
| -10.0 | | | | | | Start Free 2.399500000 GH |
| -20.0 | | | | | | Stop Fre 2.404500000 GH |
| -40.0 | | | | | | CF Ste 500.000 kH <u>Auto</u> Ma |
| -60.0 | | | | | | Freq Offse 0 ⊢ |
| -70.0 Center 2.4 #Res BW | 402000 GHz 1.5 MHz | #\/B\\ | 5.0 MHz | Sween 1 | Span 5.000 MHz .000 ms (1001 pts) | |
| MSG | | ** E 99 | VOV IVITIZ | STATU | | |

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CH39

| enter Freq 2.480000000 GHz PN0: Fast + Freq Run Avg Type: Log-Pwr Prace 12.3.4 so type Frequency Mkr1 2.479 7995 GHz -0,188 dBm -0,188 dBm Center 12.480000000 dB/div Ref 20.00 dBm -0,188 dBm Center 12.480000000 00 -1 -1 -0,188 dBm Center 12.480000000 00 -1 -1 -1 -1 2.480000000 00 -1 -1 -1 -1 -1 2.480000000 00 -1 -1 -1 -1 -1 -1 -1 00 -1 -1 -1 -1 -1 -1 -1 -1 00 -1 -1 -1 -1 -1 -1 -1 -1 00 -1 <th>G</th> <th></th> <th></th> <th></th> <th></th> <th>STATUS</th> <th></th> <th>/</th> <th></th> | G | | | | | STATUS | | / | |
|---|--------------|----------------------|-------------|-----------|----------|------------|---------------------|-----------------------|----------------------------|
| enter Freq 2.480000000 GHz PN0: Fast + Freq Run Avg Type: Log-Pwr Prace 12.3.4 so type Frequency Mkr1 2.479 7995 GHz -0,188 dBm -0,188 dBm Center 12.480000000 dB/div Ref 20.00 dBm -0,188 dBm Center 12.480000000 00 -1 -1 -0,188 dBm Center 12.480000000 00 -1 -1 -1 -1 2.480000000 00 -1 -1 -1 -1 -1 2.480000000 00 -1 -1 -1 -1 -1 -1 -1 00 -1 -1 -1 -1 -1 -1 -1 -1 00 -1 -1 -1 -1 -1 -1 -1 -1 00 -1 <th></th> <th></th> <th>#VBV</th> <th>V 5.0 MHz</th> <th></th> <th>Sweep 1</th> <th>Span 5 .000 ms (</th> <th>.000 MHz 1001 pts)</th> <th></th> | | | #VBV | V 5.0 MHz | | Sweep 1 | Span 5 .000 ms (| .000 MHz 1001 pts) | |
| enter Freq 2.480000000 GHz PN0: Fast + Freq Run Avg Type: Log-Pwr Prace 12.3.4 so type Frequency Mkr1 2.479 7995 GHz -0,188 dBm -0,188 dBm Center 12.480000000 dB/div Ref 20.00 dBm -0,188 dBm Center 12.480000000 00 -1 -1 -0,188 dBm Center 12.480000000 00 -1 -1 -1 -1 2.480000000 00 -1 -1 -1 -1 -1 2.480000000 00 -1 -1 -1 -1 -1 -1 -1 00 -1 -1 -1 -1 -1 -1 -1 -1 00 -1 -1 -1 -1 -1 -1 -1 -1 00 -1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | | | | |
| enter Freq 2.480000000 GHz PN0: Fast ++- Trig: Free Run Avg Type: Log-Pwr Trid: Trid: Free Run Avg Type: Log-Pwr Precent PrecentPrecentPrecent Precent Precent Precent Precent Precen | °0.0 | | | | | | | | Ū |
| enter Freq 2.480000000 GHz PN0: Fast + Trig: Free Run IFGain:Low Avg Type: Log-Pwr Avg Hold: 100/100 Trace 12.3.4 so TYPE Frequency dB/div Ref 20.00 dBm -0.188 dBm Center 12.480000000 00 1 1 1 00 1 1 1 00 1 1 1 00 1 1 1 00 1 1 1 01 1 1 1 02 1 1 1 03 1 1 1 04 1 1 1 05 2.480000000 1 1 | i0.0 | | | | | | | | Freq Off 0 |
| enter Freq 2.480000000 GHz PN0: Fast ++- Trig: Free Run IFGain.Low Avg Type: Log-Pwr AvgIHold: 100/100 TrACE 12.3.4.5 or Prevent PreventPrevent Prevent PreventPrevent Prevent Prevent Prevent PreventPrev | 60.0 | | | | | | | | <u>Auto</u> N |
| enter Freq 2.480000000 GHz PN0: Fast IFGain:Low PN0: Fast IFGain:Low PN0: Fast IFGain:Low Atten: 30 dB Avg Type: Log-Pwr AvgIHold: 100/100 PHO PHO PHO PHO PHO PHO PHO PHO | 0.0 | | | | | | | | CF St 500.000 I Auto |
| PN0: Fast Frequency PN0: Fast Frequency If Gain.Low Atten: 30 dB Mkr1 2.479 795 GHz -0.188 dBm 00 01 02 02 03 04 04 05 05 06 07 08 09 01 02 03 04 04 05 05 06 07 08 09 01 02 02 03 04 04 05 05 06 07 08 09 01 01 02 03 04 04 05 05 06 07 08 08 09 09 00 00 01 02 03 04 05 < | U.U | | | | | | | | |
| enter Freq 2.480000000 GHz PN0: Fast + Trig: Free Run IFGain:Low dB/div Ref 20.00 dBm 9 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | Stop F 2.482500000 0 |
| enter Freq 2.480000000 GHz PN0: Fast IFGain:Low PRO: Fast PRO: Fast PR | | | | | | | | | |
| enter Freq 2.480000000 GHz PN0: Fast IFGain:Low Atten: 30 dB Mkr1 2.479 795 GHz -0.188 dBm Center I 2.480000000 Center I 2.480000000 | 0.0 | | | | | | | | 2.477500000 0 |
| enter Freq 2.480000000 GHz PN0: Fast | .00 | | | | | | | | Stort F |
| enter Freq 2.480000000 GHz PN0: Fast | 10.0 | | | .1 | | | | | 2.480000000 |
| enter Freq 2.480000000 GHz PN0: Fast | og | | | | | | | | Center F |
| enter Freq 2.480000000 GHz PN0: Fast + | dB/div Ref : | 20.00 dBm | | | | Mkr1 | 2.479 7 -0.1 | '95 GHz 88 dBm | Auton |
| Prequency Avg Type: Log Pwr TRACE 123456 Frequency | | | PNO: Fast ↔ | | Avg Hold | | | | Auto T |
| RL RF 50 Ω AC CORREC SENSE:PULSE ALIGN AUTO 01:47:15 AM Apr 01, 2021 | | 50 Ω AC 480000000 | | | Avg Type | e: Log-Pwr | TRAC | E 1 2 3 4 5 6 | Frequency |

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8.6 DB 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 SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

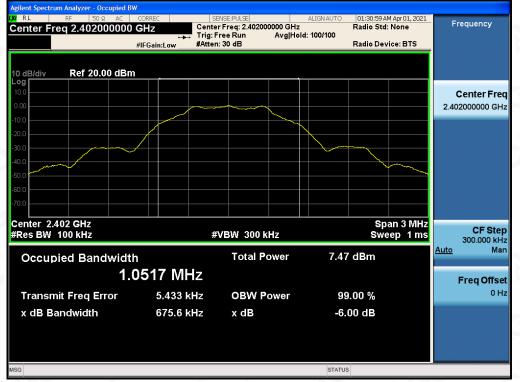
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

| LIMITS AND MEASUREMENT RESULT | | | | | |
|--|--------------------------|-------|------|--|--|
| Applicable Limits | | | | | |
| Applicable Limits | Test Data (kHz) Criteria | | | | |
| Solution of the second se | Low Channel | 675.6 | PASS | | |
| >500KHZ | Middle Channel | 673.5 | PASS | | |
| | High Channel | 688.9 | 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.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

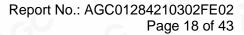
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

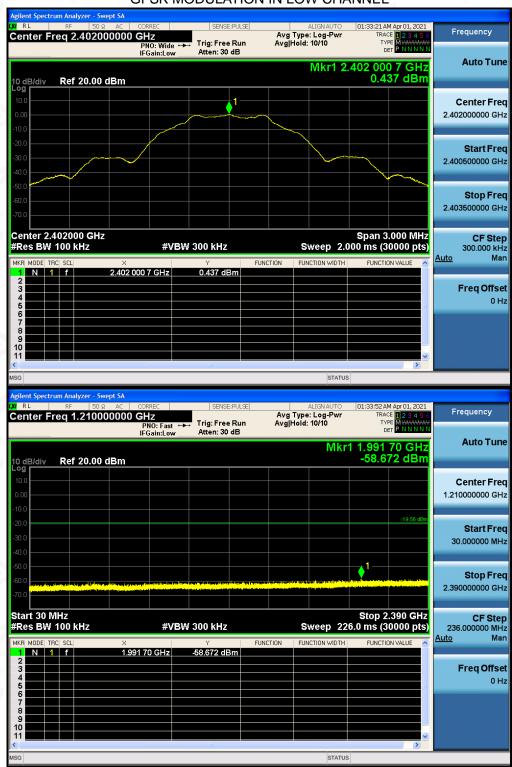
9.4. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEASUREMENT RESULT | | | | | |
|--|---|----------|--|--|--|
| Applicable Limite | Measurement Re | sult | | | |
| 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 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. | At least -20dBc than the reference level | PASS | | | |

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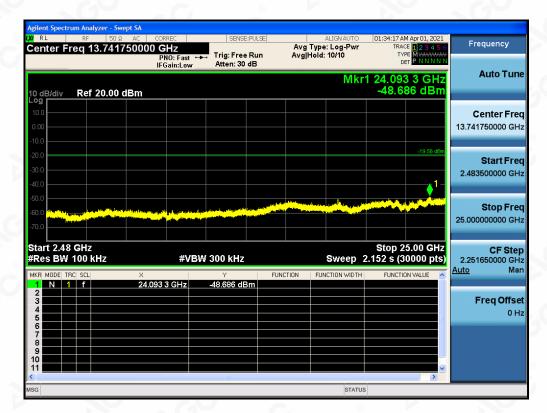


TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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Report No.: AGC01284210302FE02 Page 19 of 43





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 Web: http://cn.agc-cert.com/



| Agilent Spectrum Analyzer - S | | | | | |
|---|---|--------------------------------|---|--|--|
| Center Freq 2.440 | | SENSE:PULSE | ALIGNAUTO Avg Type: Log-Pwr | 01:43:56 AM Apr 01, 2021 TRACE 123456 | Frequency |
| Center Trey 2.4400 | PNO: Wide ← | 🗖 Trig: Free Run | Avg Hold: 10/10 | TYPE MWWWWWW DET P N N N N N | |
| | IFGain:Low | Atten: 30 dB | | | Auto Tune |
| | | | Mkr1 2. | 440 001 3 GHz | Autorune |
| 10 dB/div Ref 20.00 |) dBm | | | 1.370 dBm | |
| Log 10.0 | | 11 | | | 0 |
| | | \ ' | | | Center Freq |
| 0.00 | | | | | 2.440000000 GHz |
| -10.0 | | | | | |
| -20.0 | | | | | Start Freq |
| -30.0 | | | | | 2.438500000 GHz |
| -40.0 | | | | | |
| -50.0 | | | | | |
| -60.0 | | | | | Stop Freq |
| -70.0 | | | | | 2.441500000 GHz |
| | | | | | |
| Center 2.440000 GH | | | | Span 3.000 MHz | CF Step |
| #Res BW 100 kHz | #VB | N 300 kHz | Sweep 2.0 | 000 ms (30000 pts) | 300.000 kHz |
| MKR MODE TRC SCL | × | | FUNCTION FUNCTION WIDTH | FUNCTION VALUE | <u>Auto</u> Man |
| 1 N 1 f | 2.440 001 3 GHz | 1.370 dBm | | | |
| 3 | | | | | Freq Offset |
| 4 5 | | | | | 0 Hz |
| 6 | | | | | |
| 7 8 | | | | | |
| 9 | | | | | |
| 11 | | | | ~ | |
| < | | ш | | | |
| MSG | | | STATUS | | |
| | | | | | |
| Agilent Spectrum Analyzer - S | Swept SA | | | • | |
| (X/ RL RF 50 | Ω AC CORREC | SENSE:PULSE | ALIGN AUTO | 01:44:27 AM Apr 01, 2021 | Frequency |
| | | | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 | Frequency |
| (X/ RL RF 50 | Ω AC CORREC | | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE MWWWW DET PNNNNN | |
| (X/ RL RF 50 | Ω AC CORREC 0000000 GHZ PNO: Fast ← | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N 1 2.224 30 GHz | |
| Center Freq 1.2150 | Ω AC CORREC DOOOOOO GHZ PNO: Fast ← IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE MWWWW DET PNNNNN | |
| WRL RF 50 Center Freq 1.2150 10 dB/div Ref 20.00 Log | Ω AC CORREC DOOOOOO GHZ PNO: Fast ← IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N 1 2.224 30 GHz | Auto Tune |
| VI RL RF 50 Center Freq 1.215(100 Ref 20.00 10 dB/div Ref 20.00 100 | Ω AC CORREC DOOOOOO GHZ PNO: Fast ← IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N 1 2.224 30 GHz | Auto Tune Center Freq |
| Diamond RF 50 Center Freq 1.2150 10 dB/div Ref 20.00 10.0 0 0 000 0 0 0 | Ω AC CORREC DOOOOOO GHZ PNO: Fast ← IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N 1 2.224 30 GHz | Auto Tune Center Freq |
| VI RL RF 50 Center Freq 1.215(100 Ref 20.00 10 dB/div Ref 20.00 100 | Ω AC CORREC D000000 GHz PN0: Fast ← IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | 1 2.224 30 GHz -57.635 dBm | Auto Tune Center Freq |
| Diamond RF 50 Center Freq 1.2150 10 dB/div Ref 20.00 10.0 0 0 000 0 0 0 | Ω AC CORREC D000000 GHz PN0: Fast ← IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N 1 2.224 30 GHz | Auto Tune Center Freq 1.215000000 GHz |
| Diamond RF 50 Center Freq 1.2150 10 dB/div Ref 20.00 | Ω AC CORREC D000000 GHz PN0: Fast ← IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | 1 2.224 30 GHz -57.635 dBm | Auto Tune Center Freq 1.215000000 GHz |
| Diamond RF 50 Center Freq 1.2150 Ref 20.00 10 dB/div Ref 20.00 10.0 | Ω AC CORREC D000000 GHz PN0: Fast ← IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | 1 2.224 30 GHz -57.635 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq |
| Diamond RF 50 Center Freq 1.2150 Ref 20.00 10 dB/div Ref 20.00 10.0 | Ω AC CORREC D000000 GHz PN0: Fast ← IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | 1 2.224 30 GHz -57.635 dBm | Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz |
| Diamond RF 50 Center Freq 1.215(Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 0 10 0 0.00 0 -10.0 0.00 0 -20.0 0 0 -30.0 0 0 -50.0 0 0 | Ω AC CORREC D00000 GHz PN0: Fast ← IFGain:Low 0 dBm | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | 1 2.224 30 GHz -57.635 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq |
| Diamond RF 50 Center Freq 1.2150 Ref 20.00 10 dB/div Ref 20.00 10.0 | Ω AC CORREC D00000 GHz PN0: Fast ← IFGain:Low 0 dBm | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | 1 2.224 30 GHz -57.635 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq |
| Diamond RF 50 Center Freq 1.2150 Ref 20.00 10 dB/div Ref 20.00 -10 dB/div Ref 20.00 -20 dB/div | Ω AC CORREC D00000 GHz PN0: Fast ← IFGain:Low 0 dBm | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 12 24 5 6 TYPE MAXWAW OFT PINNIN N 1 2.2224 30 GHz -57.635 dBm -18.63 dBm -18.63 dBm -18.63 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq |
| Diamond RE SC Center Freq 1.215(Center Freq 1.215(10 dB/div Ref 20.00(Log Center Freq 1.215(10.0 Center Freq 1.215(20.0 Center Freq 1.215(-20.0 Center Freq 1.215(-40.0 Center Freq 1.215(-50.0 Center Freq 1.215(-60.0 Center Freq 1.215(-70.0 Center Freq 1.215(Start 30 MHz Center Freq 1.215(| Ω AC CORREC D00000 GHz PN0: Fast PN0: Fast IFGain:Low | Trig: Free Run Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | TRACE 1. 2 4 5 6 TYPE MAXMAN OF P NUNN N 1 2.2224 30 GHz -57.635 dBm -1863.dbm -1863.dbm -1 1 -1863.dbm -1 500 2.400 GHz | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step |
| Diamond Ref 500 Center Freq 1.2150 10 dB/div Ref 20.00 10.0 | Ω AC CORREC D000000 GHz PN0: Fast - IF6ain:Low | Trig: Free Run Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 1 2.224 30 GHz -57.635 dBm -18.63.dBm -18.63 | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz |
| Diamond RL RF 500 Center Freq 1.215(Ref 20.00 | Q AC CORREC D00000 GHz PN0: Fast PN0: Fast IFGain:Low | Trig: Free Run Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | TRACE 1. 2 4 5 6 TYPE MAXMAN OF P NUNN N 1 2.2224 30 GHz -57.635 dBm -1863.dbm -1863.dbm -1 1 -1863.dbm -1 500 2.400 GHz | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz |
| D2 RL RF 50 Center Freq 1.215/ Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 10.0 | Ω AC CORREC D000000 GHz PN0: Fast - IF6ain:Low | Trig: Free Run Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 1 2.224 30 GHz -57.635 dBm -18.63.dBm -18.63 | Start Freq 30.00000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |
| Diamond RE SC Center Freq 1.2150 10 dB/div Ref 20.00 -20 d | Q AC CORREC D00000 GHz PN0: Fast PN0: Fast IFGain:Low | Trig: Free Run Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 1 2.224 30 GHz -57.635 dBm -18.63.dBm -18.63 | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |
| D2 RL RF 50 Center Freq 1.215(Ref 20.00 Ref 20.00 Log Image: Comparison of the second secon | Q AC CORREC D00000 GHz PN0: Fast PN0: Fast IFGain:Low | Trig: Free Run Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 1 2.224 30 GHz -57.635 dBm -18.63.dBm -18.63 | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |
| DV RL RF 500 Center Freq 1.2150 Ref 20.00 Ref 20.00 10.0 Ref 20.00 Ref 20.00 20.0 Ref 20.00 Ref 20.00 -20.0 Ref 20.00 Ref 20.00 | Q AC CORREC D00000 GHz PN0: Fast PN0: Fast IFGain:Low | Trig: Free Run Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 1 2.224 30 GHz -57.635 dBm -18.63.dBm -18.63 | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |
| Diamond RE SO Center Freq 1.2150 Center Freq 1.2150 10 dB/div Ref 20.00 | Q AC CORREC D00000 GHz PN0: Fast PN0: Fast IFGain:Low | Trig: Free Run Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 1 2.224 30 GHz -57.635 dBm -18.63.dBm -18.63 | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |
| Diamond RE Store 10 dB/div Ref 20.00 10.0 | Q AC CORREC D00000 GHz PN0: Fast PN0: Fast IFGain:Low | Trig: Free Run Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 1 2.224 30 GHz -57.635 dBm -18.63.dBm -18.63 | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |
| D2 RL RF 50 Center Freq 1.215(Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 10.0 Ref 20.00 Ref 20.00 20.0 | Q AC CORREC D00000 GHz PN0: Fast PN0: Fast IFGain:Low | Trig: Free Run Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | TRACE II: 2 4 5 6 TYPE MAXMANN TPET MAXMANN 1 2.2224 30 GHz -57.635 dBm -1863 dbm -1864 dbm -186 | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto Man |
| D2 RL RF 50 Center Freq 1.215(Ref 20.00 Ref 20.00 10.0 | Q AC CORREC D00000 GHz PN0: Fast PN0: Fast IFGain:Low | Trig: Free Run Atten: 30 dB | Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | TRACE II: 2 4 5 6 TYPE MAXMANN TPE MAXMANN 1 2.2224 30 GHz -57.635 dBm -18.63 | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz |

GFSK MODULATION IN MIDDLE CHANNEL

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Report No.: AGC01284210302FE02 Page 21 of 43





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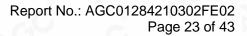
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| A - Hand Constant And Lands C | | | | | |
|---|--|--------------------------------|--|---|--|
| Agilent Spectrum Analyzer - Sv LXI R L RF 50 | Ω AC CORREC | SENSE:PULSE | ALIGNAUTO | 01:48:44 AM Apr 01, 2021 | |
| Center Freq 2.4800 | | | Avg Type: Log-Pwr | TRACE 123456 | Frequency |
| | PNO: Wide IFGain:Low | Trig: Free Run Atten: 30 dB | Avg Hold: 10/10 | TYPE MWWWWW DET P N N N N N | |
| | IFGalli.LUW | Hacen. oo ub | DAland O | | Auto Tune |
| | | | IVIKET 2. | .480 000 9 GHz -0.767 dBm | |
| 10 dB/div Ref 20.00 | dBm | | | -0.767 UBIII | |
| 10.0 | | | | | Center Freq |
| 0.00 | | •' | | | 2.480000000 GHz |
| | | | \sim | | 2.480000000 GH2 |
| -10.0 | | | | | |
| -20.0 | | | | | Start Freq |
| -30.0 | | | | | 2.478500000 GHz |
| -40.0 | | | | | |
| -50.0 | | | | | |
| -60.0 | | | | | Stop Freq |
| -70.0 | | | | | 2.481500000 GHz |
| | | | | | |
| Center 2.480000 GH | Z | | | Span 3.000 MHz | CF Step |
| #Res BW 100 kHz | | 3W 300 kHz | Sweep 2.0 | 000 ms (30000 pts) | 300.000 kHz |
| MKR MODE TRC SCL | X | Y F | FUNCTION FUNCTION WIDTH | FUNCTION VALUE | <u>Auto</u> Man |
| 1 N 1 f | 2.480 000 9 GHz | -0.767 dBm | | | |
| 2 | | | | | Freq Offset |
| 4 | | | | | 0 Hz |
| 5 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 10 | | | | | |
| 11 < | | | | <u>×</u> | |
| MSG | | | STATUS | | |
| | | | | | |
| | | | STATUC | | |
| Agilent Spectrum Analyzer - So | | | | | |
| LXI RL RF 50 | Ω AC CORREC | SENSE:PULSE | ALIGNAUTO Avg Type: Log-Pwr | 01:49:15 AM Apr 01, 2021 | Frequency |
| | Ω AC CORREC 000000 GHz PN0: Fast | Trig: Free Run | ALIGN AUTO | | Frequency |
| LXI RL RF 50 | | Tala Fara Bar | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MWWWW DET P N N N N | |
| Center Freq 1.2150 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN 1 2.367 77 GHZ | |
| Center Freq 1.2150 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MWWWW DET P N N N N | |
| Center Freq 1.2150 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN 1 2.367 77 GHZ | Auto Tune |
| OP RL RF 50 Center Freq 1.2150 1.2150 10 dB/div Ref 20.00 09 100 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN 1 2.367 77 GHZ | Auto Tune Center Freq |
| OZ RL RF 50 Center Freq 1.2150 Freq 1.2150 Freq 1.2150 10 dB/div Ref 20.00 Ref 20.00 10.0 0.00 Ref 20.00 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN 1 2.367 77 GHZ | Auto Tune Center Freq |
| OC RL RF 50 Center Freq 1.2150 10.0 Ref 20.00 10.0 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE [] 2 3 4 5 6 TYPE MUNAWAY OF P MININN 1 2.367 77 GHz -57.593 dBm | Auto Tune Center Freq |
| OC RL RF SO Center Freq 1.2150 Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 Ref 20.00 10.0 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN 1 2.367 77 GHZ | Auto Tune Center Freq 1.21500000 GHz Start Freq |
| OC RL RF SD Center Freq 1.2150 Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 Ref 20.00 10.0 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE [] 2 3 4 5 6 TYPE MUNAWAY OF P MININN 1 2.367 77 GHz -57.593 dBm | Auto Tune Center Freq 1.21500000 GHz Start Freq |
| OC RL RF SO Center Freq 1.2150 Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 Ref 20.00 10.0 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE [] 2 3 4 5 6 TYPE MUNAWAY OF P MININN 1 2.367 77 GHz -57.593 dBm | Auto Tune Center Freq 1.21500000 GHz Start Freq |
| OC RL RF SD Center Freq 1.2150 Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 Ref 20.00 10.0 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE [] 2 3 4 5 6 TYPE MUNAWAY OF P MININN 1 2.367 77 GHz -57.593 dBm | Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz |
| OC RL RF SO Center Freq 1.2150 Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 Ref 20.00 10.0 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE [] 2 3 4 5 6 TYPE MUNAWAY OF P MININN 1 2.367 77 GHz -57.593 dBm | Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz Stop Freq |
| OC RL RF SO Center Freq 1.2150 Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 0.00 10.0 0.00 0.00 -20.0 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE [] 2 3 4 5 6 TYPE MUNAWAY OF P MININN 1 2.367 77 GHz -57.593 dBm | Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz Stop Freq |
| OC RL RF 50 Center Freq 1.2150 Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 Ref 20.00 10.0 | Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE M WWWWWW DET P NININ N 1 2.367 77 GHz -57.593 dBm -20.77 dBm -20.77 dBm -20.77 dBm | Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz Stop Freq |
| ON RL RF SD Center Freq 1.2150 Ref 20.00 Ref 20.00 Log 0.00 0.00 0.00 10.0 0.00 0.00 0.00 0.00 -10.0 0.00 | Ω AC CORREC D00000 CHz PN0: Fast IFGain:Low IFGain:Low | Trig: Free Run Atten: 30 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MUNITUR DET VINNUM 1 2.367 77 GHz -57.593 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step |
| OC RL RF 50 Center Freq 1.2150 Ref 20.00 Ref 20.00 10 dB/div Ref 20.00 Ref 20.00 10.0 | Ω AC CORREC D00000 GHz PN0: Fast IFGain:Low IFGain:Low | Trig: Free Run Atten: 30 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MUNICIPAL 0 2 7 7 GHz -57.593 dBm -20 77 dBm -20 | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz |
| W RL RF SD Center Freq 1.2150 10 dE/div Ref 20.00 | Ω AC CORREC D00000 CHz PN0: Fast IFGain:Low IFGain:Low | Trig: Free Run Atten: 30 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MUNITUR DET VINNUM 1 2.367 77 GHz -57.593 dBm | Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz |
| W RL RF SD Center Freq 1.2150 | Ω AC CORREC D00000 GHz PN0: Fast IFGain:Low IFGain:Low | Trig: Free Run Atten: 30 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MUNICIPAL 0 2 7 7 GHz -57.593 dBm -20 77 dBm -20 | Start Freq 30.00000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto |
| W RL RF SD Center Freq 1.2150 | Ω AC CORREC D00000 CHz PN0: Fast IFGain:Low IFGain:Low | Trig: Free Run Atten: 30 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MUNICIPAL 0 2 7 7 GHz -57.593 dBm -20 77 dBm -20 | Auto Tune |
| ON RL RF SD Center Freq 1.2150 | Ω AC CORREC D00000 CHz PN0: Fast IFGain:Low IFGain:Low | Trig: Free Run Atten: 30 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MUNICIPAL 0 2 7 7 GHz -57.593 dBm -20 77 dBm -20 | Auto Tune |
| ON RL RF SD Center Freq 1.2150 Center Freq 1.2150 Center Freq 1.2150 10 dB/div Ref 20.00 Center Freq 1.2150 | Ω AC CORREC D00000 CHz PN0: Fast IFGain:Low IFGain:Low | Trig: Free Run Atten: 30 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MUNICIPAL 0 2 7 7 GHz -57.593 dBm -20 77 dBm -20 | Auto Tune |
| XI RF SD Center Freq 1.2150 Ref 20.00 Log Ref 20.00 10 dE/div Ref 20.00 -20 d | Ω AC CORREC D00000 CHz PN0: Fast IFGain:Low IFGain:Low | Trig: Free Run Atten: 30 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MUNICIPAL 0 2 7 7 GHz -57.593 dBm -20 77 dBm -20 | Auto Tune |
| ON RL RF SD Center Freq 1.2150 Conter Freq 1.2150 <th< td=""><td>Ω AC CORREC D00000 CHz PN0: Fast IFGain:Low IFGain:Low</td><td>Trig: Free Run Atten: 30 dB</td><td>ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr</td><td>01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MUNICIPAL 0 2 7 7 GHz -57.593 dBm -20 77 dBm -20</td><td>Auto Tune</td></th<> | Ω AC CORREC D00000 CHz PN0: Fast IFGain:Low IFGain:Low | Trig: Free Run Atten: 30 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MUNICIPAL 0 2 7 7 GHz -57.593 dBm -20 77 dBm -20 | Auto Tune |
| XI RF SD Center Freq 1.2150 Ref 20.00 Log Ref 20.00 10 dE/div Ref 20.00 -20 d | Ω AC CORREC D00000 CHz PN0: Fast IFGain:Low IFGain:Low | Trig: Free Run Atten: 30 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 01:49:15 AM Apr 01, 2021 TRACE 12 3 4 5 6 TYPE MUNICIPAL 0 2 7 7 GHz -57.593 dBm -20 77 dBm -20 | Auto Tune |
| MR MDE RF SD Center Freq 1.2150 | Ω AC CORREC D00000 CHz PN0: Fast IFGain:Low IFGain:Low | Trig: Free Run Atten: 30 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr | 01:49:15 AM Apr 01, 2021 TRACE [] 2 3 4 5 G TYPE MUNUMAN DET P MUNUM 1 2.367 77 GHz -57.593 dBm -20.77.697 Stop 2.400 GHz 8.0 ms (30000 pts) FUNCTION VALUE | Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.40000000 GHz CF Step 237.00000 MHz |

GFSK MODULATION IN HIGH CHANNEL

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Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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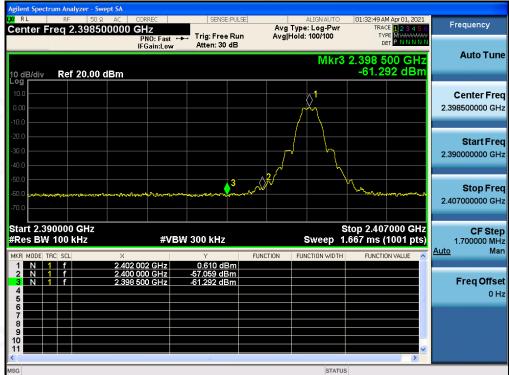
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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

Web: http://cn.agc-cert.com/

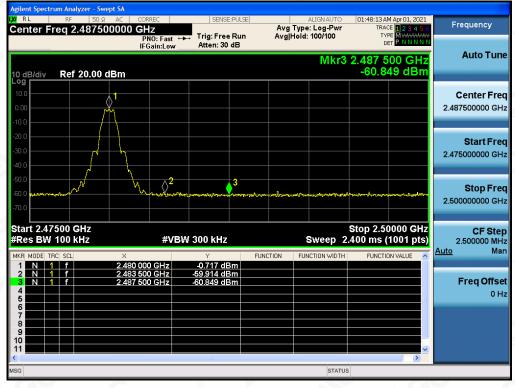




TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

GFSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. 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 SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

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

Refer to Section 7.2.

10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

| Channel No. | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|----------------|-------------------|---------------------|--------|
| Low Channel | -13.724 | 8 | Pass |
| Middle Channel | -12.818 | 8 | Pass |
| High Channel | -15.049 | 8 | Pass |

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

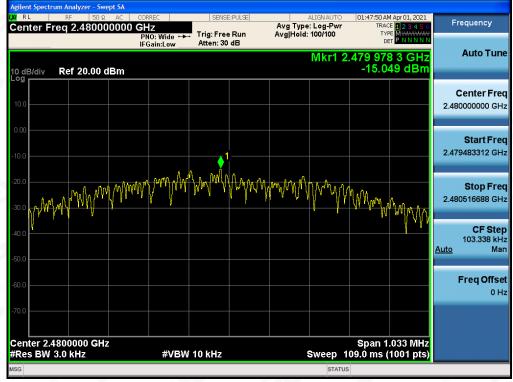


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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

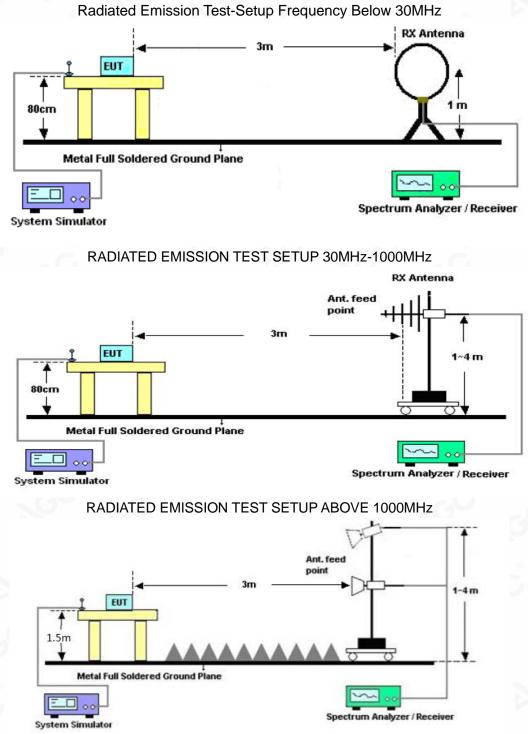
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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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Report No.: AGC01284210302FE02 Page 28 of 43

11.2. TEST SETUP



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11.3. 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.

11.4. 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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Report No.: AGC01284210302FE02 Page 30 of 43

| EUT | Dual Band Mobile Radio | Model Name | 588UVB PLUS | | |
|-------------|------------------------|-------------------|----------------|--|--|
| Temperature | 25° C | Relative Humidity | 55.4% | | |
| Pressure | 960hPa | Test Voltage | Normal Voltage | | |
| Test Mode | Mode 1 | Antenna | Horizontal | | |

RADIATED EMISSION BELOW 1GHZ



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1 | 40.6000 | 27.12 | 14.92 | 40.00 | 12.88 | 100 | 54 | Horizontal |
| 2 | 52.3000 | 29.80 | 14.50 | 40.00 | 10.20 | 100 | 359 | Horizontal |
| 3 | 66.9250 | 26.06 | 12.75 | 40.00 | 13.94 | 100 | 182 | Horizontal |
| 4 | 94.2250 | 22.90 | 10.73 | 43.50 | 20.60 | 200 | 4 | Horizontal |
| 5 | 470.5750 | 27.48 | 21.43 | 46.00 | 18.52 | 200 | 334 | Horizontal |
| 6 | 730.9000 | 33.54 | 26.74 | 46.00 | 12.46 | 200 | 228 | Horizontal |

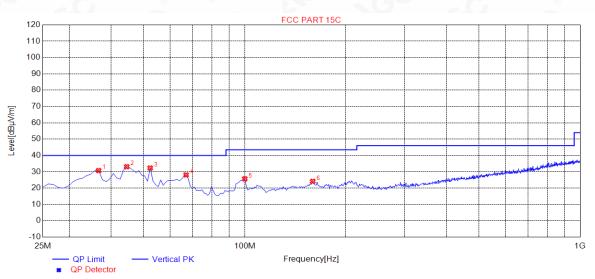
RESULT: PASS

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Report No.: AGC01284210302FE02 Page 31 of 43

| EUT | Dual Band Mobile Radio | Model Name | 588UVB PLUS |
|-------------|------------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Vertical |



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1 | 36.7000 | 30.75 | 14.14 | 40.00 | 9.25 | 100 | 195 | Vertical |
| 2 | 44.5000 | 33.12 | 14.82 | 40.00 | 6.88 | 100 | 230 | Vertical |
| 3 | 52.3000 | 32.33 | 14.50 | 40.00 | 7.67 | 100 | 330 | Vertical |
| 4 | 66.9250 | 28.09 | 12.75 | 40.00 | 11.91 | 100 | 285 | Vertical |
| 5 | 100.0750 | 25.67 | 11.38 | 43.50 | 17.83 | 100 | 116 | Vertical |
| 6 | 159.5500 | 24.17 | 14.94 | 43.50 | 19.33 | 100 | 330 | Vertical |

RESULT: PASS Note:

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

2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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Report No.: AGC01284210302FE02 Page 32 of 43

| EUT | Dual Band Mobile Radio | Model Name | 588UVB PLUS |
|-------------|------------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Horizontal |

RADIATED EMISSION ABOVE 1GHZ

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type | |
|---------------|------------------|---------------|----------------|----------|--------|------------|--|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type | |
| 4804.011 | 48.85 | 0.08 | 48.93 | 74.00 | -25.07 | peak | |
| 4804.011 | 41.33 | 0.08 | § 41.41 | 54.00 | -12.59 | AVG | |
| 7206.022 | 47.37 | 2.21 | 49.58 | 74.00 | -24.42 | peak | |
| 7206.022 | 39.47 | 2.21 | 41.68 | 54.00 | -12.32 | AVG | |
| | c.C | | | | | | |
| emark: | | | 0 | | | G | |
| actor = Anter | nna Factor + Cab | e Loss – Pre- | amplifier. | 8 | | | |

| EUT | Dual Band Mobile Radio | Model Name | 588UVB PLUS |
|-------------|------------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| 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 |
| 4804.011 | 51.37 | 0.08 | 51.45 | 74.00 | -22.55 | peak |
| 4804.011 | 40.38 | 0.08 | 40.46 | 54.00 | -13.54 | AVG |
| 7206.022 | 49.71 | 2.21 | 51.92 | 74.00 | -22.08 | peak |
| 7206.022 | 39.22 | 2.21 | 41.43 | 54.00 | -12.57 | AVG |
| | 6 | | | | G , | |
| | | | | | | |
| emark: | | | | 100 C | | |

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Report No.: AGC01284210302FE02 Page 33 of 43

| EUT | Dual Band Mobile Radio | Model Name | 588UVB PLUS |
|-------------|------------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 2 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | |
|-----------|---------------|--------|----------------|----------|--------|--------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | - Value Type |
| 4880.005 | 46.82 | 0.14 | 46.96 | 74.00 | -27.04 | peak |
| 4880.005 | 39.77 | 0.14 | 39.91 | 54.00 | -14.09 | AVG |
| 7320.140 | 43.37 | 2.36 | 45.73 | 74.00 | -28.27 | peak |
| 7320.140 | 37.51 | 2.36 | 39.87 | 54.00 | -14.13 | AVG |
| 8 | | | | 0 | | |
| | | 0 | | 20 | | 0 |
| emark: | | | | | | |

| EUT | Dual Band Mobile Radio | Model Name | 588UVB PLUS |
|-------------|------------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 2 | Antenna | Vertical |

| Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|---------------|-----------------------------------|--|---|--|--|
| (dBµV) | (dB) | <pre>(dBµV/m)</pre> | (dBµV/m) | (dB) | value Type |
| 50.38 | 0.14 | 50.52 | 74.00 | -23.48 | peak |
| 41.36 | 0.14 | 41.50 | 54.00 | -12.50 | AVG |
| 49.37 | 2.36 | 51.73 | 74.00 | -22.27 | peak |
| 39.51 | 2.36 | 41.87 | 54.00 | -12.13 | AVG |
| | <u> </u> | | 0 | | - 6 |
| 0 | | | G | 8 | |
| | (dBµV) 50.38 41.36 49.37 | (dBµV) (dB) 50.38 0.14 41.36 0.14 49.37 2.36 | (dBµV) (dB) (dBµV/m) 50.38 0.14 50.52 41.36 0.14 41.50 49.37 2.36 51.73 | (dBµV) (dB) (dBµV/m) (dBµV/m) 50.38 0.14 50.52 74.00 41.36 0.14 41.50 54.00 49.37 2.36 51.73 74.00 | (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 50.38 0.14 50.52 74.00 -23.48 41.36 0.14 41.50 54.00 -12.50 49.37 2.36 51.73 74.00 -22.27 |

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Report No.: AGC01284210302FE02 Page 34 of 43

| EUT | Dual Band Mobile Radio | Model Name | 588UVB PLUS |
|-------------|------------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Trees |
|-----------|---------------|--------|----------------|----------|--------|-------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type |
| 4960.012 | 45.96 | 0.22 | 46.18 | 74.00 | -27.82 | peak |
| 4960.012 | 42.38 | 0.22 | 42.60 | 54.00 | -11.40 | AVG |
| 7440.027 | 43.29 | 2.64 | 45.93 | 74.00 | -28.07 | peak |
| 7440.027 | 39.47 | 2.64 | 42.11 | 54.00 | -11.89 | AVG |
| mark: | | | | 20 | | |

| EUT | Dual Band Mobile Radio | Model Name | 588UVB PLUS |
|-------------|------------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Trees |
|-----------|---------------|--------|----------------|----------|--------|-------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type |
| 4960.013 | 46.58 | 0.22 | 46.80 | 74 | -27.20 | peak |
| 4960.013 | 41.22 | 0.22 | 41.44 | 54 | -12.56 | AVG |
| 7440.027 | 42.95 | 2.64 | 45.59 | 74 | -28.41 | peak |
| 7440.027 | 38.69 | 2.64 | 41.33 | 54 | -12.67 | AVG |
| 5 | | (a) | | | - 64 | 8 |
| | | | | | | C |

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, Over=Measure-Limit.

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

Compliance Dedicated Fe Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the /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 he test results apthorization of AG presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day Bf he test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

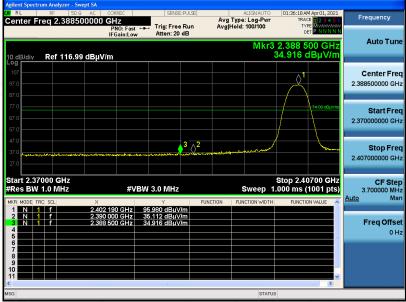


Report No.: AGC01284210302FE02 Page 35 of 43

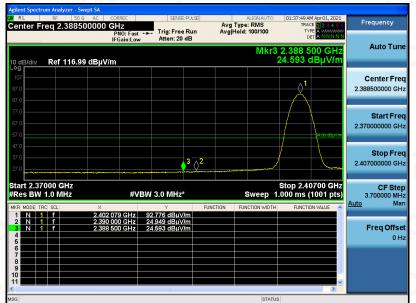
| EUT | Dual Band Mobile Radio | Model Name | 588UVB PLUS |
|-------------|------------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Horizontal |

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



RESULT: PASS

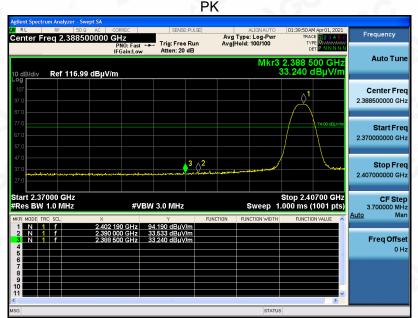
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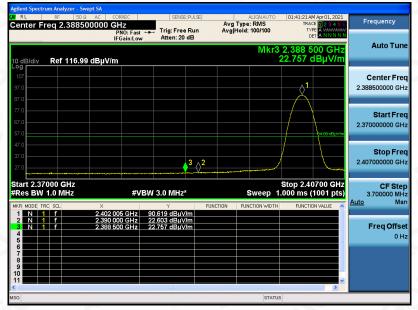


Report No.: AGC01284210302FE02 Page 36 of 43

| EUT | Dual Band Mobile Radio | Model Name | 588UVB PLUS |
|-------------|------------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 1 | Antenna | Vertical |
| | PI(| | |



AV



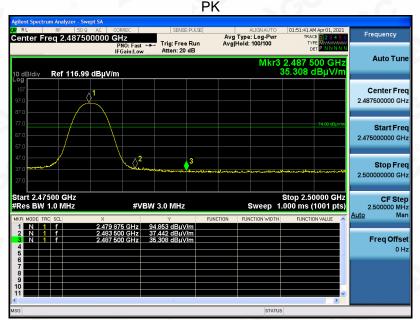
RESULT: PASS

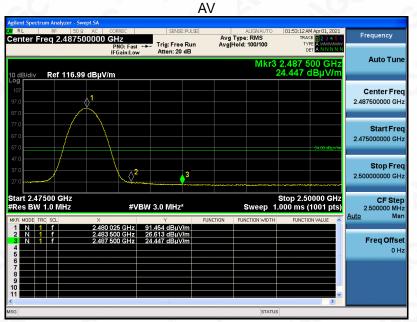
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Report No.: AGC01284210302FE02 Page 37 of 43

| EUT | Dual Band Mobile Radio | Model Name | 588UVB PLUS |
|-------------|------------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Antenna | Horizontal |
| | DI | | |





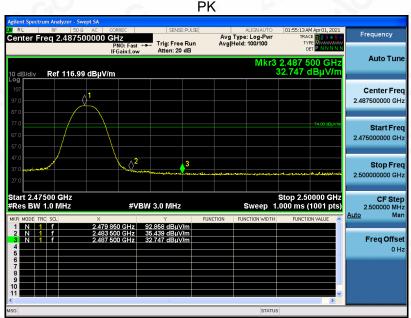
RESULT: PASS

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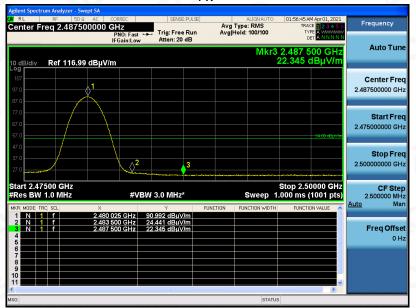


Report No.: AGC01284210302FE02 Page 38 of 43

| EUT | Dual Band Mobile Radio | Model Name | 588UVB PLUS |
|-------------|------------------------|-------------------|----------------|
| Temperature | 25° C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 3 | Antenna | Vertical |



AV



RESULT: PASS Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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12. FCC LINE CONDUCTED EMISSION TEST

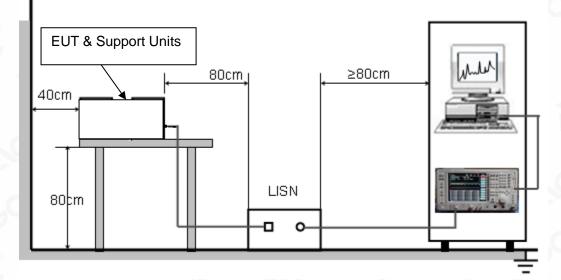
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Fromiener | Maximum RF Line Voltage | | |
|---------------|-------------------------|----------------|--|
| Frequency | Q.P.(dBuV) | Average(dBuV) | |
| 150kHz~500kHz | 66-56 | 56-46 | |
| 500kHz~5MHz | 56 | 46 | |
| 5MHz~30MHz | 60 | 50 | |

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 3.3V power from control board which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Note: not applicable.

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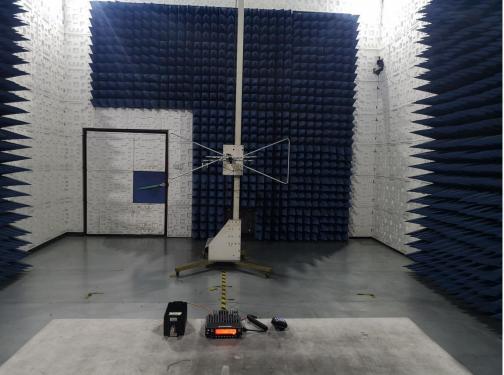
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Report No.: AGC01284210302FE02 Page 42 of 43

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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Report No.: AGC01284210302FE02 Page 43 of 43

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC01284210302AP01
----END OF REPORT----

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1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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