

# **FCC Test Report**

Report No.: AGC01689220609FE02

**FCC ID** : 2A2UU-P8

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: AI POS Terminal

BRAND NAME : Kobile, Clip

MODEL NAME : P8

**APPLICANT**: Shanghai Xiangcheng Communication Technology Co.,Ltd

**DATE OF ISSUE** : Aug. 16, 2022

**STANDARD(S)** : FCC Part 15.247

**REPORT VERSION**: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

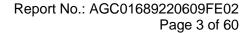




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# REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | Aug. 16, 2022 | Valid         | Initial Release |





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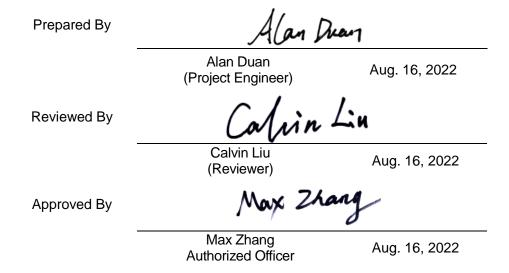
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## 1. VERIFICATION OF COMPLIANCE

| Applicant                    | Shanghai Xiangcheng Communication Technology Co.,Ltd   |  |
|------------------------------|--|--|
| Address                      | 6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai, China  |  |
| Manufacturer                 | Shanghai Xiangcheng Communication Technology Co.,Ltd   |  |
| Address                      | 6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai, China  |  |
| Factory                      | Sichuan Xiangcheng Intelligent Technology Co, Ltd  |  |
| Address                      | Factory No. 2, Zone A, Intelligent Terminal Demonstration Park, West Section of Gangyuan Road, Lingang Economic Development Zone, Yibin City, Sichuan Province |  |
| Product Designation          | AI POS Terminal  |  |
| Brand Name                   | Kobile, Clip   |  |
| Test Model                   | P8   |  |
| Date of receipt of test item | Jul. 04, 2022  |  |
| Date of test                 | Jul. 04, 2022~Aug. 16, 2022  |  |
| Deviation                    | No any deviation from the test method  |  |
| Condition of Test Sample     | Normal   |  |
| Test Result                  | Pass   |  |
| Report Template              | 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.





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## 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

The EUT is designed as a "AI POS Terminal". 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     | 1M:-5.029dBm (Max)<br>2M:-5.139dBm (Max)                       |
| Bluetooth Version   | V5.0   |
| Modulation          | BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ☑GFSK 1Mbps ☑GFSK 2Mbps  |
| Number of channels  | 40 Channel   |
| Antenna Designation | PIFA Antenna (Comply with requirements of the FCC part 15.203) |
| Antenna Gain        | 2.83dBi  |
| Hardware Version    | V1.0A  |
| Software Version    | P0821_ALL_V1.0_20220613  |
| Power Supply        | DC 7.60V by battery  |

# 2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
|                | 0              | 2402 MHz  |
|                | 1              | 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: 2A2UU-P8** 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 ±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%.

| Item  | Measurement Uncertainty    |
|---|----------------------------|
| Uncertainty of Conducted Emission for AC Port | $U_c = \pm 3.1 \text{ dB}$ |
| Uncertainty of Radiated Emission below 1GHz   | $U_c = \pm 4.0 \text{ dB}$ |
| Uncertainty of Radiated Emission above 1GHz   | $U_c = \pm 4.8 \text{ dB}$ |
| Uncertainty of total RF power, conducted      | $U_c = \pm 0.8 \text{ dB}$ |
| Uncertainty of RF power density, conducted    | $U_c = \pm 2.6 \text{ dB}$ |
| Uncertainty of spurious emissions, conducted  | $U_c = \pm 2 \%$           |
| Uncertainty of Occupied Channel Bandwidth     | U <sub>c</sub> = ±2 %      |



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#### 4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION  |
|-----|------------------------|
| 1   | Low channel TX_CH00    |
| 2   | Middle channel TX_CH19 |
| 3   | High channel TX_CH39   |

#### 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 through engineering commands, EUT can be set to a separate test mode.

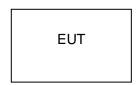


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# 5. SYSTEM TEST CONFIGURATION

#### **5.1. CONFIGURATION OF TESTED SYSTEM**

Radiated Emission Configure:



Conducted Emission Configure:

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

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

| Item | Equipment       | Model No.         | ID or Specification                                       | Remark |
|------|-----------------|-------------------|---|--------|
| 1    | AI POS Terminal | P8                | 2A2UU-P8  | EUT    |
| 2    | Adapter         | TPA-23A050200UU01 | Input: AC 100-240V 50/60Hz, 0.35A<br>Output: DC 5.0V 2.0A | AE     |
| 3    | Battery         | P8                | DC 7.60V 2500mAh  | AE     |
| 4    | USB Cable       | N/A               | N/A   | 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        | Conducted Emission                     | Compliant |



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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 CONDUCTED EMISSION TEST**

| 1201 24011 111211 01 0011200122 21111001011 1201 |              |                  |        |               |               |
|--|--------------|------------------|--------|---------------|---------------|
| Equipment  | Manufacturer | Model            | S/N    | Cal. Date     | Cal. Due      |
| TEST RECEIVER                                    | R&S          | ESPI             | 101206 | Mar. 28, 2022 | Mar. 27, 2023 |
| LISN   | R&S          | ESH2-Z5          | 100086 | Jun. 08, 2022 | Jun. 07, 2023 |
| 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      | Mar. 28, 2022 | Mar. 27, 2023 |
| EXA Signal<br>Analyzer               | Aglient        | N9010A                      | MY53470504 | Nov. 17, 2021 | Nov. 16, 2022 |
| 2.4GHz Filter                        | EM Electronics | 2400-2500MHz                | N/A        | N/A           | N/A           |
| Attenuator                           | ZHINAN         | E-002                       | N/A        | Sep. 03, 2020 | Sep. 02, 2022 |
| Horn antenna                         | SCHWARZBECK    | BBHA 9170                   | #768       | Oct. 31, 2021 | Oct. 30, 2023 |
| Active loop<br>antenna<br>(9K-30MHz) | ZHINAN         | ZN30900C                    | 18051      | Mar. 12, 2022 | Mar. 11, 2024 |
| Double-Ridged<br>Waveguide Horn      | ETS LINDGREN   | 3117                        | 00034609   | Apr. 23, 2021 | Apr. 22, 2023 |
| Broadband<br>Preamplifier            | ETS LINDGREN   | 3117PA                      | 00225134   | Sep. 03, 2020 | Sep. 02, 2022 |
| ANTENNA                              | SCHWARZBECK    | VULB9168                    | 494        | Jan. 08, 2021 | Jan. 07, 2023 |
| Test software                        | FARA           | EZ-EMC(Ver.AGC<br>-CON03A1) | N/A        | N/A           | N/A           |



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## 7. PEAK OUTPUT POWER

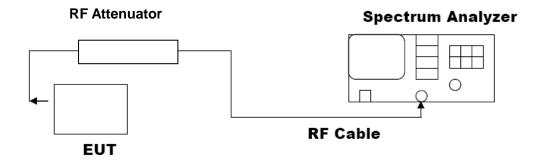
#### 7.1. MEASUREMENT PROCEDURE

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





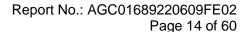
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#### 7.3. LIMITS AND MEASUREMENT RESULT

| 7.5. Elimito Arb Meaconement Recoef |                       |                     |                 |              |  |
|-------------------------------------|-----------------------|---------------------|-----------------|--------------|--|
| Test Data of Conducted Output Power |                       |                     |                 |              |  |
| Test Mode                           | Test Channel<br>(MHz) | Peak Power<br>(dBm) | Limits<br>(dBm) | Pass or Fail |  |
|                                     | 2402                  | -5.357              | ≤30             | Pass         |  |
| GFSK 1M                             | 2440                  | -5.481              | ≤30             | Pass         |  |
|                                     | 2480                  | -5.029              | ≤30             | Pass         |  |
| GFSK 2M                             | 2402                  | -5.410              | ≤30             | Pass         |  |
|                                     | 2440                  | -5.601              | ≤30             | Pass         |  |
|                                     | 2480                  | -5.139              | ≤30             | Pass         |  |

**Test Graphs of Conducted Output Power** 

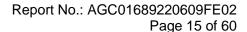






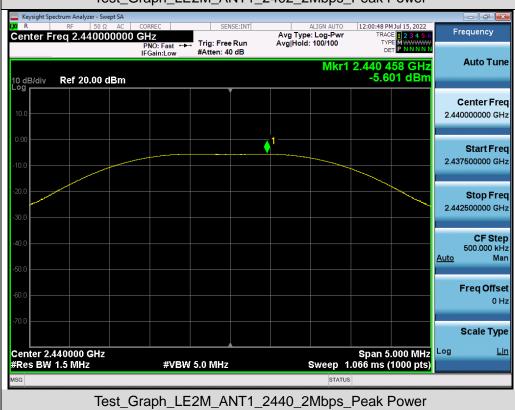


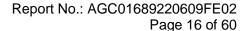




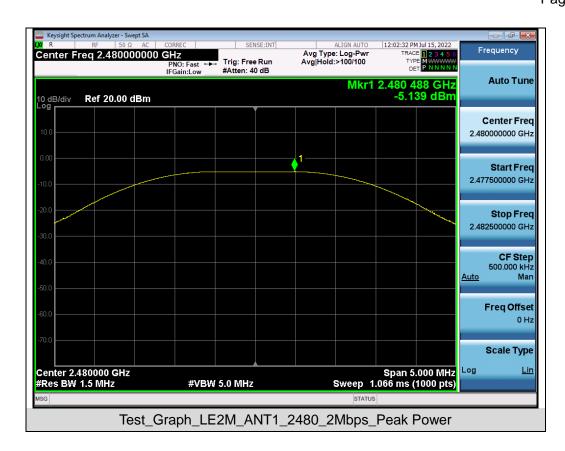














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#### 8. BANDWIDTH

#### **8.1. MEASUREMENT PROCEDURE**

#### 6dB bandwidth:

- 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 ≥ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

#### Occupied bandwidth:

- 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.

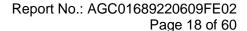
**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

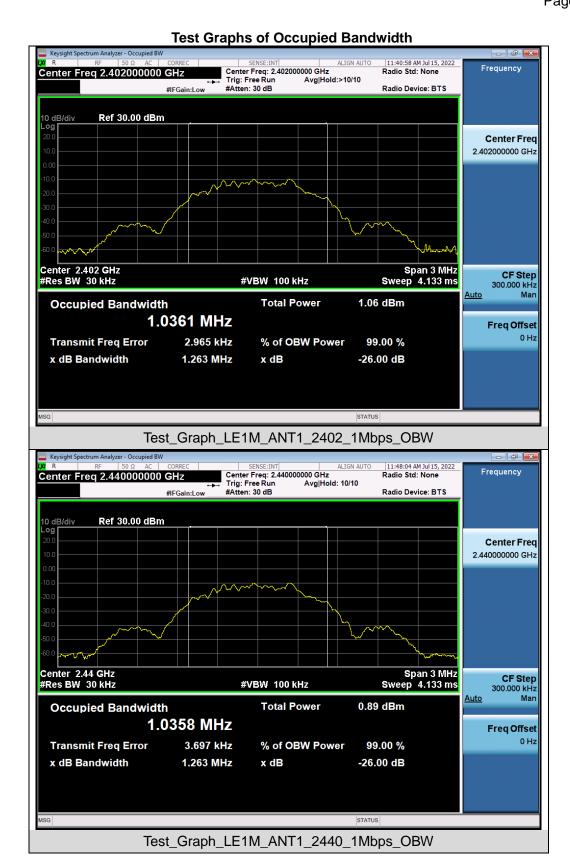
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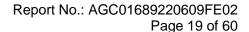
#### 8.3. LIMITS AND MEASUREMENT RESULTS

| Test Data of Occupied Bandwidth and DTS Bandwidth |                       |                                 |                         |                 |              |
|---|-----------------------|---------------------------------|-------------------------|-----------------|--------------|
| Test Mode   | Test Channel<br>(MHz) | 99% Occupied<br>Bandwidth (MHz) | -6dB<br>Bandwidth (MHz) | Limits<br>(MHz) | Pass or Fail |
| GFSK 1M   | 2402                  | 1.036                           | 0.666                   | ≥0.5            | Pass         |
|   | 2440                  | 1.036                           | 0.668                   | ≥0.5            | Pass         |
|   | 2480                  | 1.036                           | 0.666                   | ≥0.5            | Pass         |
| GFSK 2M   | 2402                  | 2.071                           | 1.173                   | ≥0.5            | Pass         |
|   | 2440                  | 2.071                           | 1.179                   | ≥0.5            | Pass         |
|   | 2480                  | 2.071                           | 1.175                   | ≥0.5            | Pass         |

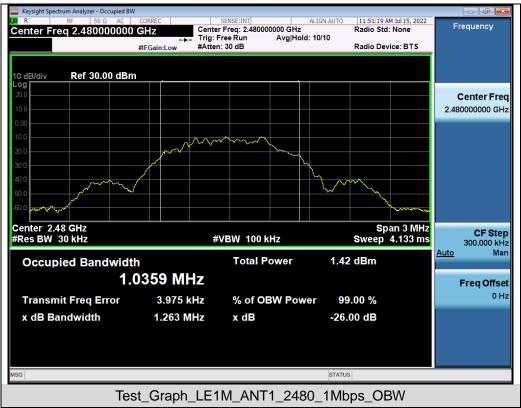




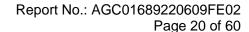




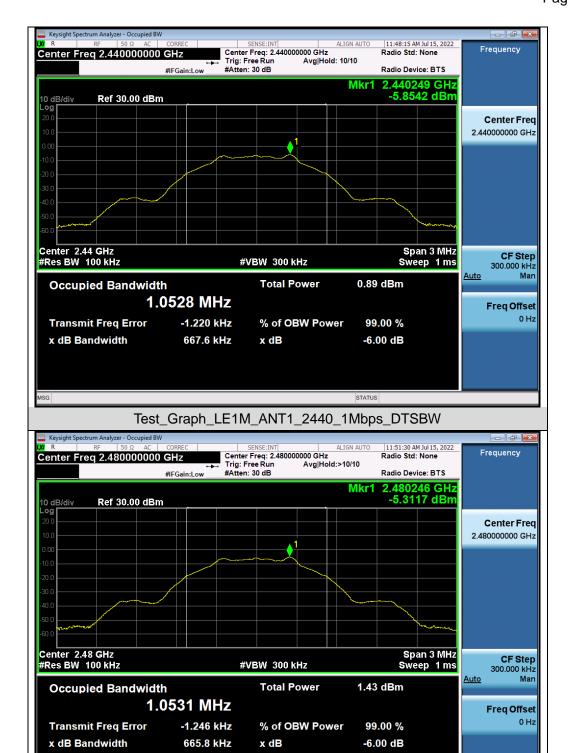




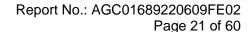






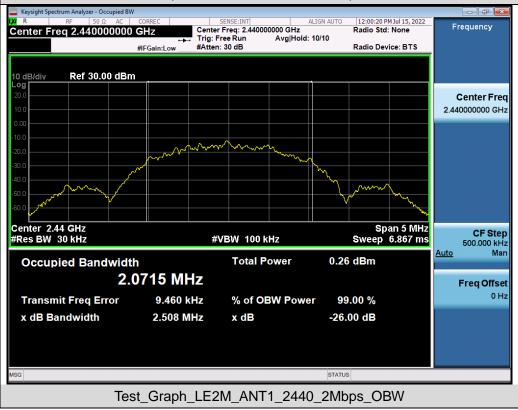


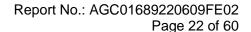
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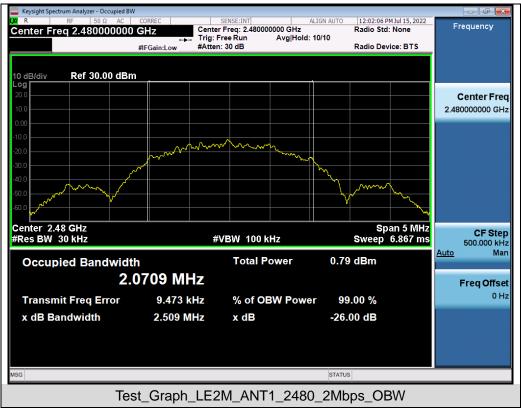


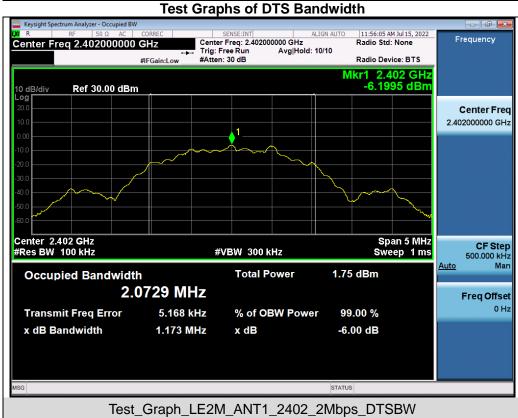


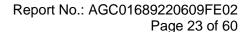




















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## 9. CONDUCTED SPURIOUS EMISSION

#### 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)

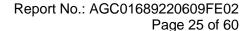
The same as described in section 7.2.

#### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

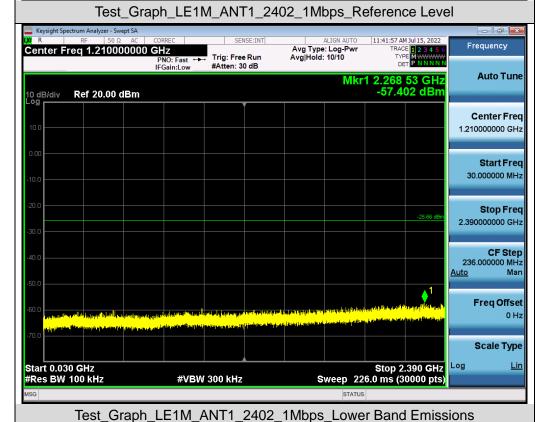
| LIMITS AND MEASUREMENT RESULT  |  |          |  |  |  |
|--|--|----------|--|--|--|
| Applicable Limite  | Measurement Result                       |          |  |  |  |
| Applicable Limits  | Test Data                                | Criteria |  |  |  |
| In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency 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     |  |  |  |





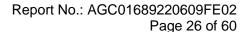
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands Frequency





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Web: http://www.agccert.com/

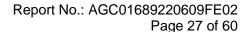




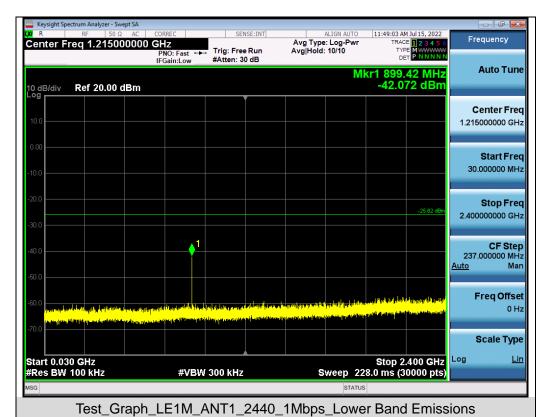




Web: http://www.agccert.com/



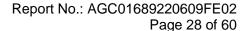






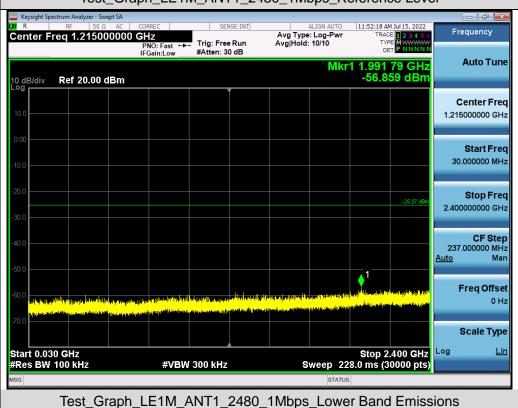
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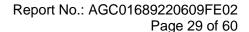
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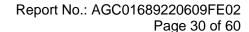




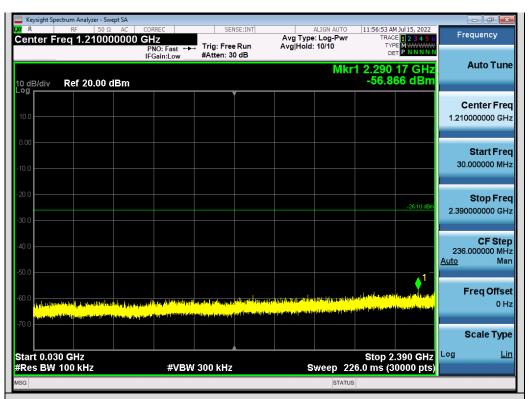




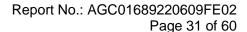






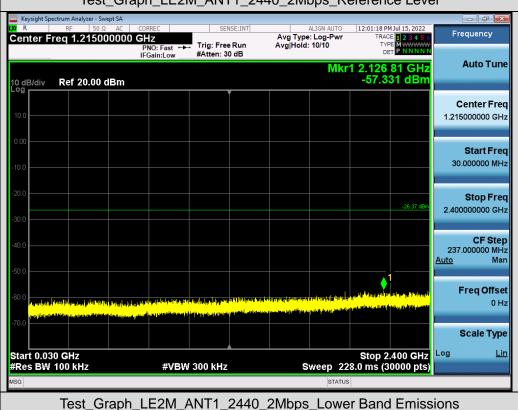


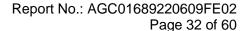






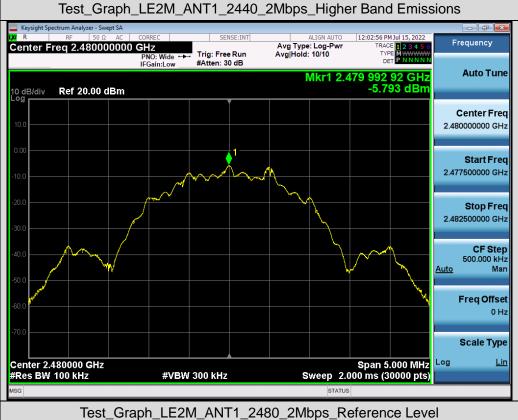


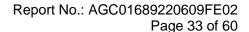




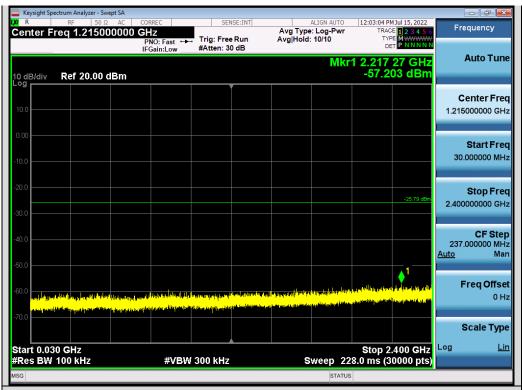




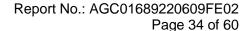












0 Hz

<u>Lin</u>

**Scale Type** 

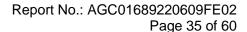
Log



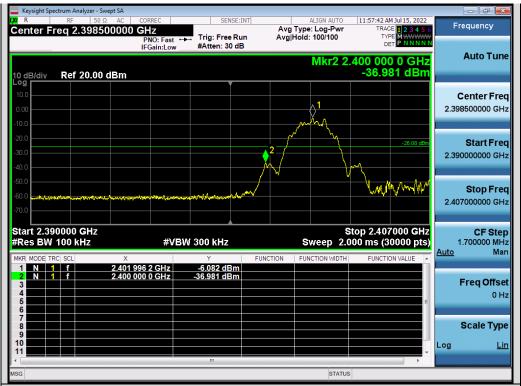
Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands Frequency Avg Type: Log-Pwi Avg|Hold: 100/100 Center Freq 2.398500000 GHz Trig: Free Run #Atten: 30 dB TYPE **Auto Tune** Mkr2 2.400 000 0 GHz -61.759 dBm Ref 20.00 dBm Center Freq 2.398500000 GHz Start Freq 2.390000000 GHz Stop Freq 2.407000000 GHz Stop 2.407000 GHz 2.000 ms (30000 pts) Start 2.390000 GHz #Res BW 100 kHz CF Step 1.700000 MHz **#VBW** 300 kHz Auto Man 2.402 248 9 GHz 2.400 000 0 GHz -5.651 dBm -61.759 dBm Freq Offset 0 Hz Scale Type Log <u>Lin</u> Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Lower Band Edge Emissions Avg Type: Log-Pwr Avg|Hold: 100/100 Frequency Center Freq 2.487500000 GHz PNO: Fast ---IFGain:Low Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr2 2.483 500 0 GHz -60.027 dBm Ref 20.00 dBm Center Frea 2.487500000 GHz Start Freq 2.475000000 GHz Stop Freq 2 500000000 GHz Stop 2.50000 GHz Sweep 4.000 ms (30000 pts) Start 2.47500 GHz #Res BW 100 kHz **CF Step #VBW** 300 kHz 2.500000 MHz <u>Auto</u> -5.289 dBm -60.027 dBm Freq Offset

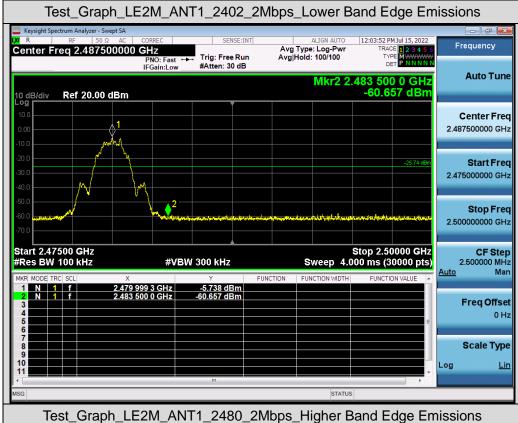
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Higher Band Edge Emissions











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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 8.4 was used in this testing.

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

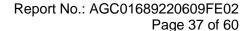
Refer to Section 7.2.

#### 10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

#### 10.4. LIMITS AND MEASUREMENT RESULT

| Test Data of Conducted Output Power Spectral Density |                       |                             |                     |              |  |
|--|-----------------------|-----------------------------|---------------------|--------------|--|
| Test Mode  | Test Channel<br>(MHz) | Power density<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Pass or Fail |  |
|  | 2402                  | -21.811                     | <b>≤8</b>           | Pass         |  |
| GFSK 1M  | 2440                  | -21.838                     | ≪8                  | Pass         |  |
|  | 2480                  | -21.321                     | <b>≤8</b>           | Pass         |  |
|  | 2402                  | -24.145                     | ≪8                  | Pass         |  |
| GFSK 2M  | 2440                  | -24.322                     | ≪8                  | Pass         |  |
|  | 2480                  | -23.844                     | <b>≤8</b>           | Pass         |  |



**Scale Type** 

<u>Lin</u>

Span 1.002 MHz Sweep 105.7 ms (1000 pts)



**Test Graphs of Conducted Output Power Spectral Density** 11:41:37 AM Jul 15, 2022 AVg Type: Log-Pwr Avg|Hold: 92/100 Frequency Center Freq 2.402000000 GHz Trig: Free Run #Atten: 30 dB TYPE IFGain:Low **Auto Tune** -21.811 dBm 10 dB/div Ref 20.00 dBm Center Freq 2.402000000 GHz Start Freq 2.401500500 GHz Stop Freq Markenlugulpura 2.402499500 GHz CF Step 99.900 kHz Auto Man Frea Offset 0 Hz **Scale Type** Log Center 2.4020000 GHz #Res BW 3.0 kHz Span 999.0 kHz Sweep 105.4 ms (1000 pts) <u>Lin</u> #VBW 10 kHz Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_PSD Avg Type: Log-Pwr Avg|Hold: 92/100 Center Freq 2.440000000 GHz Frequency Trig: Free Run #Atten: 30 dB PNO: Wide ↔ IFGain:Low **Auto Tune** Mkr1 2.440 016 5 GHz -21.838 dBm Ref 20.00 dBm 10 dB/div Center Frea 2.440000000 GHz Start Freq 2.439499000 GHz Stop Freq  $\gamma$ 2 440501000 GHz CF Step 100.200 kHz <u>Auto</u> Freq Offset 0 Hz

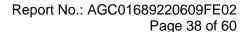
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_PSD

**#VBW 10 kHz** 

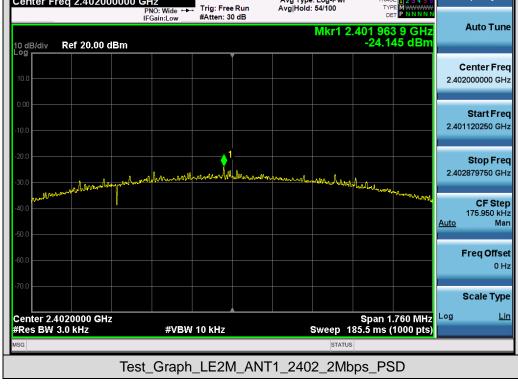
Center 2.4400000 GHz #Res BW 3.0 kHz

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



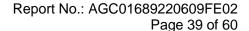






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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

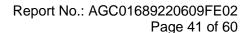


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# 11. RADIATED EMISSION

#### 11.1. MEASUREMENT PROCEDURE

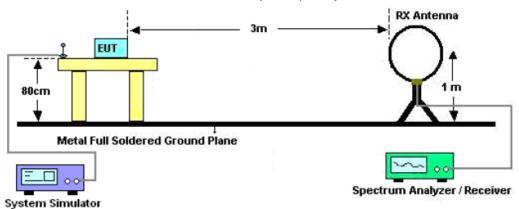
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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.



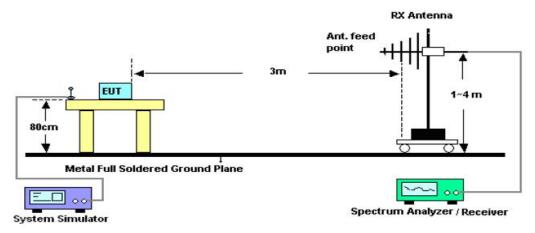


# 11.2. TEST SETUP

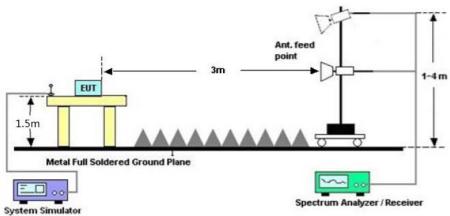
# Radiated Emission Test-Setup Frequency Below 30MHz



# RADIATED EMISSION TEST SETUP 30MHz-1000MHz



# RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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# 11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

| Frequencies<br>(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

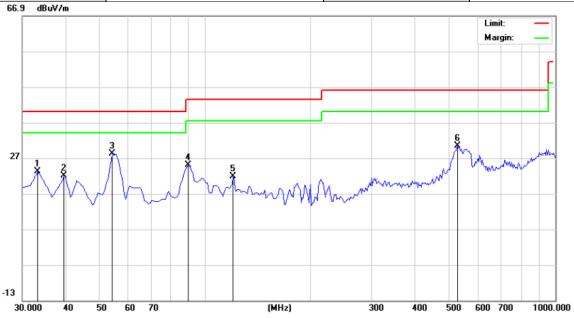
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.



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# Radiated emission from 30MHz to 1000MHz

| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| Temperature | 25° C           | Relative Humidity | 55.4%          |
| Pressure    | 960hPa          | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 3          | Antenna           | Horizontal     |



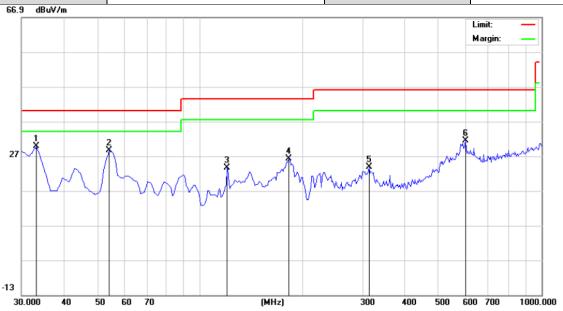
| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
|     |     | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector |
| 1   |     | 33.2332  | 10.90            | 12.27             | 23.17            | 40.00  | -16.83 | peak     |
| 2   |     | 39.7000  | 7.02             | 14.92             | 21.94            | 40.00  | -18.06 | peak     |
| 3   | *   | 54.2500  | 13.35            | 14.90             | 28.25            | 40.00  | -11.75 | peak     |
| 4   |     | 89.8166  | 10.06            | 14.94             | 25.00            | 43.50  | -18.50 | peak     |
| 5   |     | 120.5332 | 3.91             | 17.96             | 21.87            | 43.50  | -21.63 | peak     |
| 6   | ,   | 527.9333 | 9.04             | 21.27             | 30.31            | 46.00  | -15.69 | peak     |

**RESULT: PASS** 





| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| Temperature | 25° C           | Relative Humidity | 55.4%          |
| Pressure    | 960hPa          | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 3          | Antenna           | Vertical       |



|   | No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |
|---|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
| - |     |     | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector |
|   | 1   | *   | 33.2333  | 17.49            | 12.27             | 29.76            | 40.00  | -10.24 | peak     |
|   | 2   |     | 54.2500  | 13.68            | 14.86             | 28.54            | 40.00  | -11.46 | peak     |
|   | 3   | ,   | 120.5333 | 5.70             | 17.98             | 23.68            | 43.50  | -19.82 | peak     |
|   | 4   |     | 181.9667 | 9.57             | 16.73             | 26.30            | 43.50  | -17.20 | peak     |
|   | 5   | ,   | 312.9166 | 4.42             | 19.41             | 23.83            | 46.00  | -22.17 | peak     |
| Ī | 6   | ,   | 599.0667 | 6.51             | 24.92             | 31.43            | 46.00  | -14.57 | peak     |

# RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. All test modes had been tested. The BLE 1Mpbs mode 3 is the worst case and recorded in the report.



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# Radiated emission above 1GHz

| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| Temperature | 25° C           | Relative Humidity | 55.4%          |
| Pressure    | 960hPa          | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 1          | Antenna           | Horizontal     |

| Frequency   | Meter Reading | Factor | Emission Level | Limits   | Margin | Value Type |  |
|---|---------------|--------|----------------|----------|--------|------------|--|
| (MHz)   | (dBµV)        | (dB)   | (dBµV/m)       | (dBµV/m) | (dB)   | Value Type |  |
| 4804.000  | 50.05         | 0.08   | 50.13          | 74.00    | -23.87 | peak       |  |
| 4804.000  | 41.42         | 0.08   | 41.50          | 54.00    | -12.50 | AVG        |  |
| 7206.000  | 50.33         | 2.21   | 52.54          | 74.00    | -21.46 | peak       |  |
| 7206.000  | 41.17         | 2.21   | 43.38          | 54.00    | -10.62 | AVG        |  |
|   |               |        |                |          |        |            |  |
| Remark:   |               |        |                |          |        |            |  |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |            |  |

| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| 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 Type |
|---------------|------------------|----------------|----------------|----------|--------|------------|
| (MHz)         | (dBµV)           | (dB)           | (dBµV/m)       | (dBµV/m) | (dB)   | value Type |
| 4804.000      | 49.88            | 0.08           | 49.96          | 74.00    | -24.04 | peak       |
| 4804.000      | 40.37            | 0.08           | 40.45          | 54.00    | -13.55 | AVG        |
| 7206.000      | 49.76            | 2.21           | 51.97          | 74.00    | -22.03 | peak       |
| 7206.000      | 39.63            | 2.21           | 41.84          | 54.00    | -12.16 | AVG        |
|               |                  |                |                |          |        |            |
| Remark:       |                  |                | •              |          | •      | •          |
| actor = Anter | na Factor + Cabl | e Loss – Pre-a | ımplifier.     |          |        |            |



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| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| 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 | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz)     | (dBµV)        | (dB)   | (dBµV/m)       | (dBµV/m) | (dB)   | Value Type |
| 4880.000  | 53.62         | 0.14   | 53.76          | 74.00    | -20.24 | peak       |
| 4880.000  | 38.74         | 0.14   | 38.88          | 54.00    | -15.12 | AVG        |
| 7320.000  | 51.21         | 2.36   | 53.57          | 74.00    | -20.43 | peak       |
| 7320.000  | 37.37         | 2.36   | 39.73          | 54.00    | -14.27 | AVG        |
|           |               |        |                |          |        |            |
|           |               |        |                |          |        |            |
| Remark:   |               | •      |                | •        | •      | •          |

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

| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| Temperature | 25° C           | Relative Humidity | 55.4%          |
| 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 |
| 4880.000  | 48.37         | 0.14   | 48.51          | 74.00    | -25.49 | peak       |
| 4880.000  | 39.22         | 0.14   | 39.36          | 54.00    | -14.64 | AVG        |
| 7320.000  | 50.98         | 2.36   | 53.34          | 74.00    | -20.66 | peak       |
| 7320.000  | 39.44         | 2.36   | 41.80          | 54.00    | -12.20 | AVG        |
|           |               |        |                |          |        |            |
| ·         |               | _      |                |          |        |            |
| Remark:   |               |        |                |          |        |            |

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



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| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| 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 Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz)     | (dBµV)        | (dB)   | (dBµV/m)       | (dBµV/m) | (dB)   | Value Type |
| 4960.000  | 48.78         | 0.22   | 49.00          | 74.00    | -25.00 | peak       |
| 4960.000  | 40.91         | 0.22   | 41.13          | 54.00    | -12.87 | AVG        |
| 7440.000  | 46.37         | 2.64   | 49.01          | 74.00    | -24.99 | peak       |
| 7440.000  | 39.81         | 2.64   | 42.45          | 54.00    | -11.55 | AVG        |
|           |               |        |                |          |        |            |
| Remark:   |               |        |                |          | •      | •          |

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

| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| 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 Type |
|---------------|------------------|----------------|----------------|----------|--------|------------|
| (MHz)         | (dBµV)           | (dB)           | (dBµV/m)       | (dBµV/m) | (dB)   | Value Type |
| 4960.000      | 50.31            | 0.22           | 50.53          | 74.00    | -23.47 | peak       |
| 4960.000      | 42.93            | 0.22           | 43.15          | 54.00    | -10.85 | AVG        |
| 7440.000      | 45.34            | 2.64           | 47.98          | 74.00    | -26.02 | peak       |
| 7440.000      | 38.22            | 2.64           | 40.86          | 54.00    | -13.14 | AVG        |
|               |                  |                |                |          |        |            |
| Remark:       | •                |                | •              | •        | •      | 1          |
| actor = Anter | na Factor + Cabl | e Loss – Pre-a | amplifier.     |          |        |            |

# **RESULT: PASS**

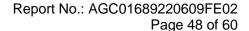
#### Note:

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.

The BLE 1Mpbs mode 3 is the worst case and recorded in the report.

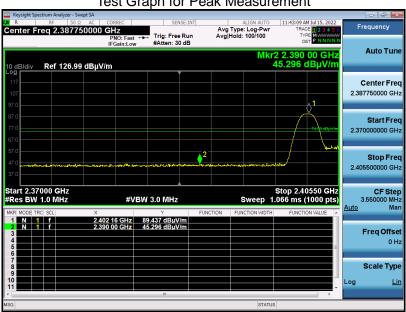




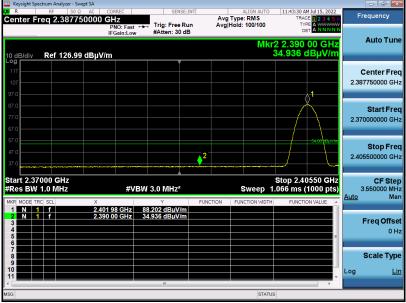
Test result for band edge emission at restricted bands-BLE 1M

| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| Temperature | 25° C           | Relative Humidity | 55.4%          |
| Pressure    | 960hPa          | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 1          | Antenna           | Horizontal     |

Test Graph for Peak Measurement



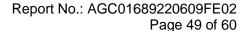




**RESULT: PASS** 

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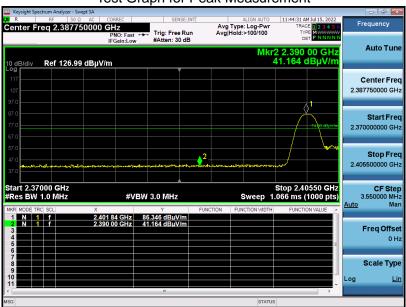
Web: http://www.agccert.com/

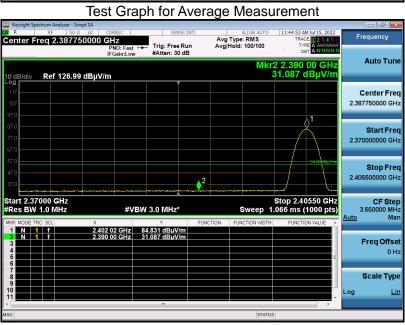




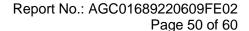
**EUT** AI POS Terminal **Model Name** P8 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 1 **Antenna** Vertical

Test Graph for Peak Measurement





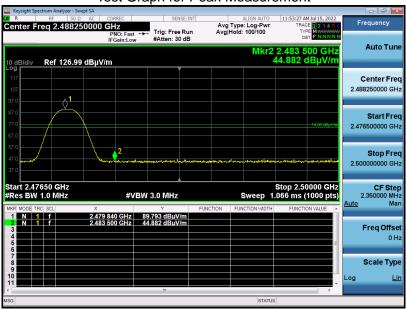
**RESULT: PASS** 



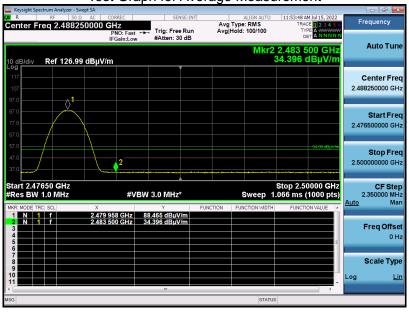


| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| Temperature | 25° C           | Relative Humidity | 55.4%          |
| Pressure    | 960hPa          | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 3          | Antenna           | Horizontal     |

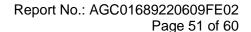
Test Graph for Peak Measurement







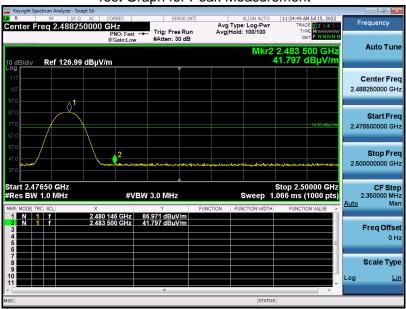
**RESULT: PASS** 





| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| Temperature | 25° C           | Relative Humidity | 55.4%          |
| Pressure    | 960hPa          | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 3          | Antenna           | Vertical       |

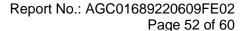
Test Graph for Peak Measurement







**RESULT: PASS** 

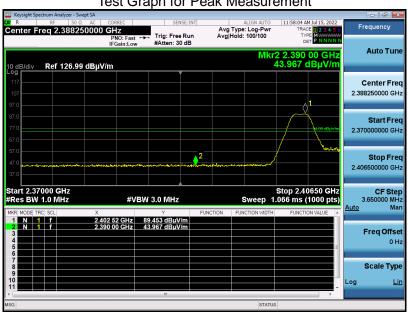




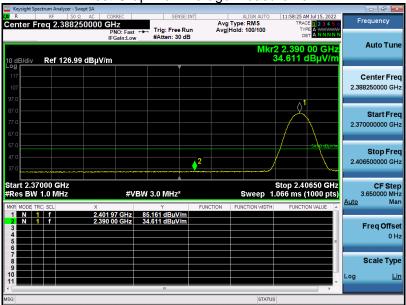
Test result for band edge emission at restricted bands-BLE 2M

| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| Temperature | 25° C           | Relative Humidity | 55.4%          |
| Pressure    | 960hPa          | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 1          | Antenna           | Horizontal     |

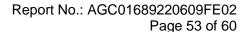
Test Graph for Peak Measurement







**RESULT: PASS** 

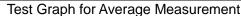


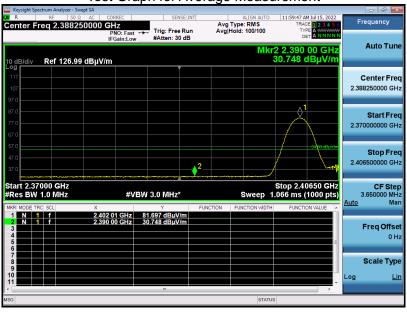


| EUT         | AI POS Terminal | Model Name        | P8             |
|-------------|-----------------|-------------------|----------------|
| Temperature | 25° C           | Relative Humidity | 55.4%          |
| Pressure    | 960hPa          | Test Voltage      | Normal Voltage |
| Test Mode   | Mode 1          | Antenna           | Vertical       |

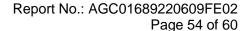
Test Graph for Peak Measurement







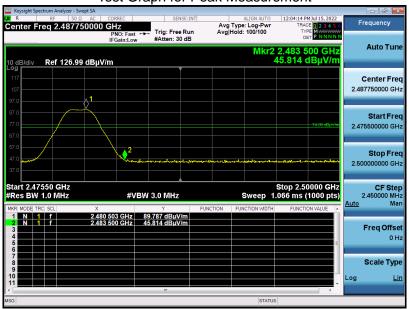
**RESULT: PASS** 



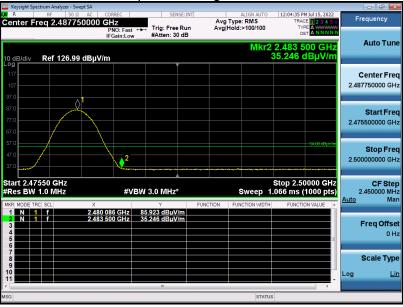


**EUT** AI POS Terminal **Model Name** P8 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 3 **Antenna** Horizontal

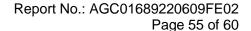
Test Graph for Peak Measurement







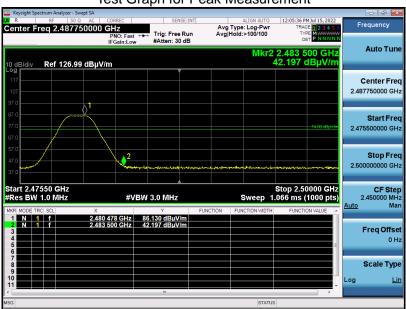
**RESULT: PASS** 



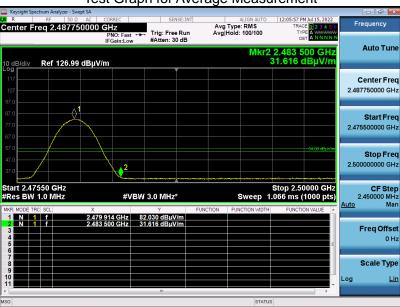


**EUT** AI POS Terminal P8 **Model Name** 25° C **Temperature Relative Humidity** 55.4% 960hPa Normal Voltage **Pressure Test Voltage Test Mode** Mode 3 **Antenna** Vertical

Test Graph for Peak Measurement







# **RESULT: PASS**

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



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# 12. LINE CONDUCTED EMISSION TEST

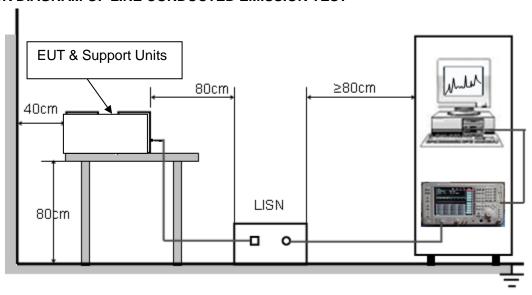
#### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Eroguenov     | 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



# 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. 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 5V power from adapter 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



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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.

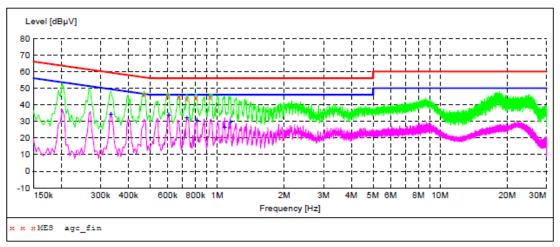
#### 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. 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.

# 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



# Line Conducted Emission Test Line 1-L



# MEASUREMENT RESULT: "agc\_fin"

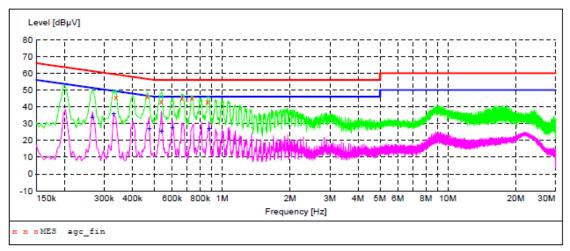
| 2022/7/11 23<br>Frequency<br>MHz |       | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Detector | Line |
|----------------------------------|-------|--------------|---------------|--------------|----------|------|
| 0.470000                         | 46.20 | 5.5          | 57            | 10.3         | QP       | L1   |
| 0.598000                         | 45.40 | 5.4          | 56            | 10.6         | QP       | L1   |
| 0.674000                         | 44.80 | 5.4          | 56            | 11.2         | QP       | L1   |
| 0.730000                         | 43.50 | 5.4          | 56            | 12.5         | QP       | L1   |
| 0.802000                         | 44.10 | 5.4          | 56            | 11.9         | QP       | L1   |
| 0.930000                         | 44.50 | 5.4          | 56            | 11.5         | QP       | L1   |

# MEASUREMENT RESULT: "agc fin2"

| 2022/7/11 23:03  |               |              |               |              |          |      |  |
|------------------|---------------|--------------|---------------|--------------|----------|------|--|
| Frequency<br>MHz | Level<br>dBµV | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Detector | Line |  |
| 0.334000         | 34.20         | 5.9          | 49            | 15.2         | AV       | L1   |  |
| 0.606000         | 33.60         | 5.4          | 46            | 12.4         | AV       | L1   |  |
| 0.730000         | 32.20         | 5.4          | 46            | 13.8         | AV       | L1   |  |
| 0.810000         | 30.50         | 5.4          | 46            | 15.5         | AV       | L1   |  |
| 1.082000         | 26.60         | 5.5          | 46            | 19.4         | AV       | L1   |  |
| 1.146000         | 29.50         | 5.6          | 46            | 16.5         | AV       | L1   |  |



# Line Conducted Emission Test Line 2-N



# MEASUREMENT RESULT: "agc\_fin"

| 20 | 022/7/11 23:     | 06            |              |               |              |          |      |
|----|------------------|---------------|--------------|---------------|--------------|----------|------|
|    | Frequency<br>MHz | Level<br>dBµV | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Detector | Line |
|    | 0.338000         | 45.90         | 5.9          | 59            | 13.4         | QP       | N    |
|    | 0.466000         | 46.20         | 5.5          | 57            | 10.4         | QP       | N    |
|    | 0.538000         | 43.20         | 5.4          | 56            | 12.8         | QP       | N    |
|    | 0.662000         | 45.20         | 5.4          | 56            | 10.8         | QP       | N    |
|    | 0.734000         | 45.50         | 5.4          | 56            | 10.5         | QP       | N    |
|    | 0.862000         | 43.20         | 5.4          | 56            | 12.8         | QP       | N    |

# MEASUREMENT RESULT: "agc\_fin2"

| 2022/7/11 23:06  |       |              |               |              |          |      |  |
|------------------|-------|--------------|---------------|--------------|----------|------|--|
| Frequency<br>MHz |       | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Detector | Line |  |
| 0.266000         | 34.00 | 6.2          | 51            | 17.2         | AV       | N    |  |
| 0.330000         | 35.60 | 5.9          | 50            | 13.9         | AV       | N    |  |
| 0.474000         | 27.00 | 5.5          | 46            | 19.4         | AV       | N    |  |
| 0.538000         | 25.60 | 5.4          | 46            | 20.4         | AV       | N    |  |
| 0.602000         | 27.60 | 5.4          | 46            | 18.4         | AV       | N    |  |
| 0.874000         | 26.70 | 5.4          | 46            | 19.3         | AV       | N    |  |



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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01689220609AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC01689220609AP02

----END OF REPORT----



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