FCC Test Report

Report No.: AGC00408250704FR05

FCC ID	:	2A3DR-AGMG3
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	5G Smart Phone
BRAND NAME	:	AGM
MODEL NAME	:	AGM_G3, AGM_G3_PRO
APPLICANT	:	AGM MOBILE LIMITED
DATE OF ISSUE	:	Oct. 16, 2025
STANDARD(S)	:	FCC Part 22 Subpart H FCC Part 24 Subpart E FCC Part 27 Subpart L
REPORT VERSION	:	V1.0

Attestation of ***G***lobal ***C***ompliance (Shenzhen) Co., Ltd.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 16, 2025	Valid	Initial Release

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1. General Information

Applicant	AGM MOBILE LIMITED
Address	FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEUNG CIRCUIT TUEN MUN NT HONG KONG, CHINA
Manufacturer	AGM MOBILE LIMITED
Address	FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEUNG CIRCUIT TUEN MUN NT HONG KONG, CHINA
Factory	GUANGDONG AIJIEMO ELECTRONIC INDUSTRY CO., LTD
Address	AGM TECHNOLOGY PARK, NO.187 LIANFA ROAD, TONGQIAO TOWN, ZHONGKAI HIGH-TECH DISTRICT, HUIZHOU CITY, P.R.CHINA
Product Designation	5G Smart Phone
Brand Name	AGM
Test Model	AGM_G3
Series Model(s)	AGM_G3_PRO
Difference Description	All models are identical except for model name and with or without rear auxiliary camera; AGM_G3 features a rear auxiliary camera, AGM_G3_PRO lacks a rear auxiliary camera.
Date of receipt of test item	Jul. 15, 2025
Date of Test	Jul. 15, 2025~Oct. 10, 2025
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-GSM&WCDMA-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By	Jack Gui (Project Engineer)	Oct. 16, 2025
Reviewed By	Bibo Zhang (Reviewer)	Oct. 16, 2025
Approved By	Angela Li (Authorized Officer)	Oct. 16, 2025

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2. Product Information

2.1 Product Technical Description

Support Networks	GSM, GPRS, EDGE, WCDMA, HSDPA, HSUPA		
Hardware Version	M822_V1.0		
Software Version	V1.0		
Support Frequency Band	☒GPRS 850	☒PCS1900	☒UMTS FDD Band II
	☒UMTS FDD Band IV	☒UMTS FDD Band V	(Non-U.S. Bands)
Frequency Range	824.2MHz-848.8MHz (GSM/GPRS/EDGE 850)		
	1850.2MHz-1909.8MHz (GSM/GPRS/EDGE 1900)		
	1852.4MHz-1907.6MHz (WCDMA Band II)		
	1712.4MHz-1752.6MHz (WCDMA Band IV)		
	826.4MHz-846.6 MHz (WCDMA Band V)		
Type of Modulation	GMSK/8PSK Modulation For GSM/GPRS/EDGE		
	BPSK/QPSK Modulation For WCDMA/HSDPA/HSUPA		
Emission Designator	GSM 850:	250KGXW	
	GPRS 850:	248GXW	
	EDGE 850:	252KG7W	
	GSM 1900:	244KGXW	
	GPRS 1900:	248KGXW	
	EDGE 1900:	257KG7W	
	WCDMA Band II:	4M15F9W	
	WCDMA Band IV:	4M15F9W	
	WCDMA Band V:	4M15F9W	
Antenna Designation	PIFA Antenna		
Antenna Gain	GSM850:-2.16dBi	PCS1900:0.67dBi	
	WCDMA850:-2.16dBi	WCDMA1700:0.67	WCDMA1900:0.67dBi
Power Supply	DC 3.87V by Built-in Li-ion Battery		
Dual Card	GSM /WCDMA Card Slot		
Extreme Vol. Limits	DC3.29V to 4.45V (Normal: DC 3.87V)		
Extreme Temp. Tolerance	-30 °C to +50 °C		
Temperature Range	-20℃ to +50℃		

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2.2 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2A3DR-AGMG3,** filing to comply with Part 2, Part 22/24/27 the Federal Communication Commission rules.

2.3 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR FCC Part 2	Frequency allocations and radio treaty matters, general rules and regulations.
2	47 CFR FCC Part 22	Public Mobile Services.
3	47 CFR FCC Part 24	Personal Communications Services.
4	47 CFR FCC Part 27	Miscellaneous Wireless Communications Services.
5	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
6	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
7	KDB 971168	D01 v03r01 Measurement Guidance For Certification Of Licensed Digital Transmitters.

2.4 Device Capabilities

850/1900 GSM/GPRS/EGPRS,850/1700/WCDMA/HSPA, Multi-Band LTE,802.11 b/g/n for WLAN,802.11 a/n/ac/ax for UNII, Bluetooth (1X,EDR,LE),GPS, NFC.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration.

The emissions below 1GHz and above 18GHz were tested with the highest transmitting power channel and the worst case configuration.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape),and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

This device supports dual-SIM communication, and only the data corresponding to the worst card slot (SIM Card 1) is reflected in the report.

2.5 Special Accessories

The battery was supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

2.6 Equipment Modifications

Not available for this EUT intended for grant.

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2.7 Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

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3. Test Environment

3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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3.3 Environmental Conditions

	Normal Conditions	Extreme Conditions
Temperature range	15~35℃	-20℃~50℃
Humidty range	20 % to 75 %.	20 % to 75 %.
Pressure range	86-106kPa	86-106kPa
Power supply	DC 3.87V	DC 3.29V or 4.45V
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.		

3.4 Measurement Uncertainty

Test	Measurement Uncertainty
Transmitter power conducted	±0.57 dB
Transmitter power Radiated	±2.20 dB
Conducted spurious emission 9kHz-40 GHz	±2.20 dB
Occupied Bandwidth	±0.01ppm
Radiated Emission 30~1000MHz	±4.10dB
Radiated Emission Above 1GHz	±4.32dB
Conducted Disturbance:0.15~30MHz	±3.20dB
Radio Frequency	± 6.5 x 10-8
RF Power, Conducted	± 0.9 dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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3.5 List of Test Equipment

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☐	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2025-01-14	2026-01-13
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-ER-E032	Universal Radio Communication Tester	R&S	CMW500	120909	2025-05-16	2026-05-15
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
☒	AGC-EM-E005	Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	2025-03-14	2027-03-13
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
☒	AGC-EM-E102	Broadband Ridged Horn Antenna	ETS	3117	00154520	2025-05-18	2026-05-17
☐	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2025-09-10	2027-09-09
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2025-05-08	2026-05-07
☒	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15
☒	AGC-EM-A113	Band Stop Filter (825-850MHz)	MICRO-TRONICS	BRC50717	N/A	2025-05-16	2027-05-15
☒	AGC-EM-A115	Band Stop Filter (1710-1785MHz)	MICRO-TRONICS	BRC50719	N/A	2024-05-22	2027-05-21
☒	AGC-EM-A116	Band Stop Filter (1850-1950MHz)	MICRO-TRONICS	BRC50720	N/A	2025-05-16	2027-05-15
☒	AGC-EM-A122	Band Stop Filter (1000-18000MHz)	MICRO-TRONICS	HPM50115	N/A	2025-05-16	2027-05-15

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E087	Spectrum Analyzer	KEYSIGHT	N9020B	MY56101792	2025-05-08	2026-05-07
☒	AGC-ER-E032	Universal Radio Communication Tester	R&S	CMW500	120909	2025-05-16	2026-05-15
☒	AGC-ER-E032	Universal Radio Communication Tester	R&S	CMU200	113939	2025-05-21	2026-05-20
☒	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2024-07-24	2026-07-23
☒	--	Universal Switch Control Unit	Tonscend	JS	N/A	N/A	N/A
☒	--	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	--	RF Connection Cable	N/A	2#	N/A	Each time	N/A

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● Test Software

Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-ER-S008	LTE Test System	Tonscend	JS1120	3.1.46
☒	AGC-EM-S011	RSE Test System	Tonscend	TS+ Ver2.1(JS36-RSE)	4.0.0.0

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4. System Test Configuration

4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of EUT System

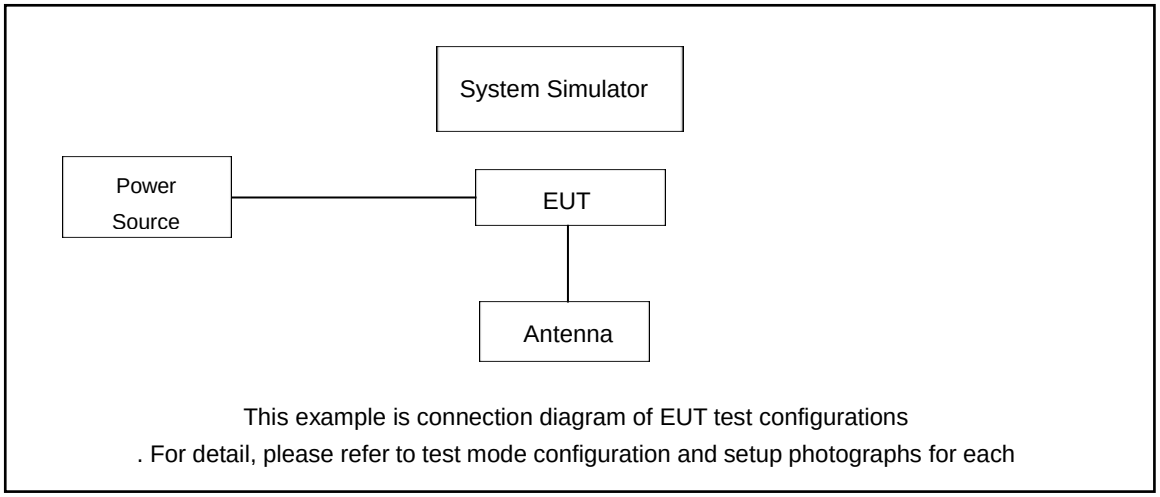

Table 2-1 Equipment Used in EUT System

4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

☐ Test Accessories Come From The Laboratory
☒ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Battery	Shenzhen Jiajinyuan Technology Co., Ltd.	TG10	DC 3.87V 10000mAh	--
2	Adapter	SHEN ZHEN HUAJIN ELECTRONICS CO.,LTD.	HJ-PD33W-US	Input: AC 100-240V 50/60Hz, 0.8A Output: DC 5V 3A;9V 3A;12V 2.75A	1.0m unshielded

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5. Summary of Test Results

5.1 Test Condition: Conducted Test

Item	Test Description	FCC Rules	Result
1	Occupied Bandwidth	§2.1049	Pass
2	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal	§2.1051, §22.917(a), §24.238(a) §27.53(h)	Pass
3	Conducted Output Power	§2.1046	Pass
4	Frequency stability / variation of ambient temperature	§2.1055, § 22.355, §24.235, §27.54	Pass
5	Peak- to- Average Ratio	§24.232(d), §27.50(d)(5)	Pass

5.2 Test Condition: Radiated Test

Item	Test Description	FCC Rules	Result
1	Effective Radiated Power	§22.913(a)(5)	Pass
2	Equivalent Isotropic Radiated Power	§24.232(c), §27.50(d)(4)	Pass
3	Radiated Spurious and Harmonic Emissions	§2.1053, §22.917(a), §24.238(a), §27.53(h)	Pass

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6. Description of Test Modes

Bands	Tx/Rx Frequency	RF Channel		
		Low(L)	Middle(M)	High(H)
GSM/GPRS/ EDGE 850	TX (824 MHz ~ 849 MHz)	Channel 128	Channel 190	Channel 251
		824.2 MHz	836.6 MHz	848.8 MHz
WCDMA band V	TX (824 MHz ~ 849 MHz)	Channel 4132	Channel 4182	Channel 4233
		826.4 MHz	836.4 MHz	846.6 MHz

Bands	Tx/Rx Frequency	RF Channel		
		Low(L)	Middle(M)	High(H)
GSM/GPRS/ EDGE1900	TX (1850 MHz-1910 MHz)	Channel 512	Channel 661	Channel 810
		1850.2 MHz	1880.0 MHz	1909.8 MHz
WCDMA Band II	TX (1850 MHz-1910 MHz)	Channel 9262	Channel 9400	Channel 9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz

Bands	Tx/Rx Frequency	RF Channel		
		Low(L)	Middle(M)	High(H)
WCDMA Band IV	TX (1710 MHz-1755 MHz)	Channel 1312	Channel 1412	Channel 1513
		1712.4 MHz	1732.4 MHz	1752.6 MHz

Pre-scan all bandwidth and RB, find worse case mode are chosen to the report, the worse mode applicability and tested channel detail as below:

Band	Radiated	Conducted
GSM/GPRS/ EDGE 850/1900	GSM (GMSK, 1Tx-slot) Link GPRS (GMSK, 1Tx-slot) Link EDGE (8PSK, 1Tx-slot) Link	GSM (GMSK,1Tx-slot) Link GPRS (GMSK, 1Tx-slot) Link EDGE (8PSK, 1Tx-slot) Link
WCDMA Band II/IV/V	RMC 12.2kbps Link	RMC 12.2kbps Link

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According to 3GPP 25.101 sub-clause 6.2.2 , the maximum output power is allowed to be reduced by following the table.

Table 6.1aA: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	0≤ CM≤3.5	MAX(CM-1,0)
Note: CM=1 for β_c/β_d=12/15,β_{hs}/β_c=24/15.For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensate for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

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7. Equivalent (Isotropic) Radiated Power

7.1 Provisions Applicable

The conduction test is carried out in a shielded room. According to the test, connect the device under test to the antenna port on the non-conductive platform directly to the test device for evaluation and measurement (ANSI-C63.26-2015 Clause 5.2)

The following rules are for the maximum radiated power limit requirements of the product:

Mode	Nominal Peak Power
GSM 850	< 7 Watts max. ERP (38.45dBm)
PCS 1900	< 2 Watts max. EIRP (33dBm)
WCDMA Band II	< 2 Watts max. EIRP (33dBm)
WCDMA Band IV	< 1 Watts max. EIRP (30dBm)
WCDMA Band V	< 7 Watts max. ERP (38.45dBm)

7.2 Measurement Procedure

- **Measure the conducted average power as follows:**

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
3. The path loss was compensated to the results for each measurement.
4. Measure the maximum burst average power and average power for other modulation signal.
5. The software records its average power as (P_{Meas})

- **The radiation power method is as follows**

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi). The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$ERP/EIRP = P_{Meas} + G_T - L_C$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

- P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;
- G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

If the Fundamental frequency is below 1GHz, RF output power has been converted to EIRP.

$$EIRP\ (dBm) = ERP\ (dBm) + 2.15$$

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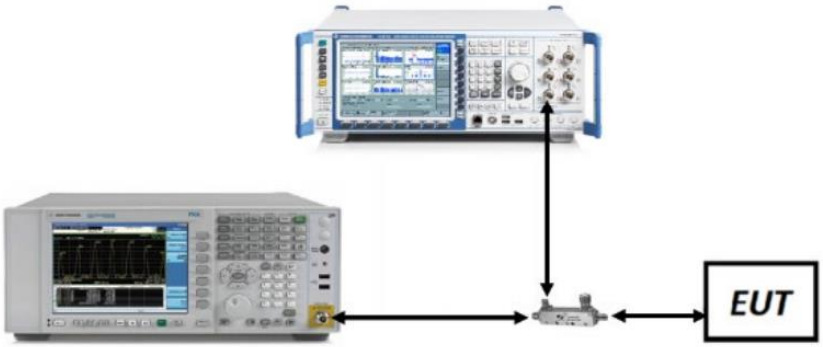
7.3 Measurement Setup



7.4 Measurement Result

Note: The test data please reference to attachment “AGC00408250704FR05_Appendix Data”

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8. Peak-to-Average Ratio

8.1 Provisions Applicable

This is the test for the Peak-to-Average Ratio from the EUT.

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

8.2 Measurement Procedure

- **CCDF Procedure for PAPR:**

1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Set the measurement interval as follows:
   - for continuous transmissions, set to 1 ms,
   - or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time
4. that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

- **Alternate Procedure for PAPR:**

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as P_{Pk} Use one of the applicable procedures presented 5.2(ANSI C63.26-2015) to measure the total average power and recordas PAvg. Determine the P.A.R. from:

P.A.R(dB) = P_{Pk} (dBm) – P_{Avg} (dBm) (P_{Avg} = Average Power + Duty cycle Factor)

Allow trace to fully stabilize.

Use the peak marker function to determine the peak amplitude level.

■ **<u>Test Settings (Peak Power):</u>**

The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW ≥ 3 × RBW.

1. Set the RBW ≥ OBW.
2. Set VBW ≥ 3 × RBW.
3. Set span ≥ 2 × OBW.
4. Sweep time ≥ 10 × (number of points in sweep) × (transmission symbol period).

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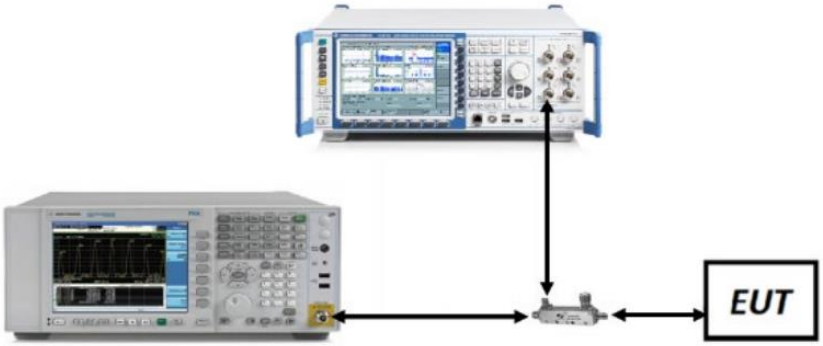
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the peak amplitude level.

■ **Test Settings (Average Power)**

1. Set span to 2 × to 3 × the OBW.
2. Set RBW ≥ OBW.
3. Set VBW ≥ 3 × RBW.
4. Set number of measurement points in sweep ≥ 2 × span / RBW.
5. Sweep time: Set ≥ [10 × (number of points in sweep) × (transmission period)] for single sweep (Automation-compatible) measurement. The transmission period is the (on + off) time.
6. Detector = power averaging (rms).
7. Set sweep trigger to “free run.”
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. (To accurately determine the average power over the on and off period of the transmitter, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.)
9. Use the peak marker function to determine the maximum amplitude level.
10. Add [10 log (1/duty cycle)] to the measured maximum power level to compute the average power during continuous transmission. For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is a constant 25%.

8.3 Measurement Setup



8.4 Measurement Result

Note: The test data please reference to attachment “AGC00408250704FR05_Appendix Data”

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9. 99% Occupied Bandwidth and 26dB Emission Bandwidth

9.1 Provisions Applicable

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

The EUT makes a call to the communication simulator.

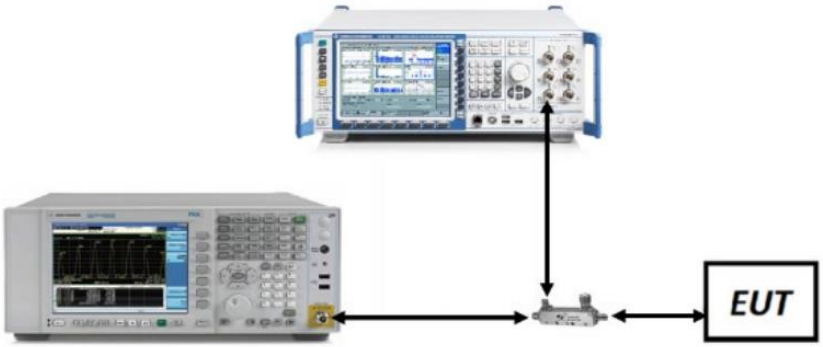
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

9.2 Measurement Procedure

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99%
2. Occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by
3. any intermediate power nulls in the fundamental emission.
4. RBW = 1 – 5% of the expected OBW
5. VBW ≥ 3 x RBW
6. Detector = Peak
7. Trace mode = max hold
8. Sweep = auto couple
9. The trace was allowed to stabilize
10. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within
11. 1 – 5% of the 99% occupied bandwidth observed in Step 7

9.3 Measurement Setup



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9.4 Measurement Result

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10. Band Edge Emissions at Antenna Terminal

10.1 Provisions Applicable

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

10.2 Measurement Procedure

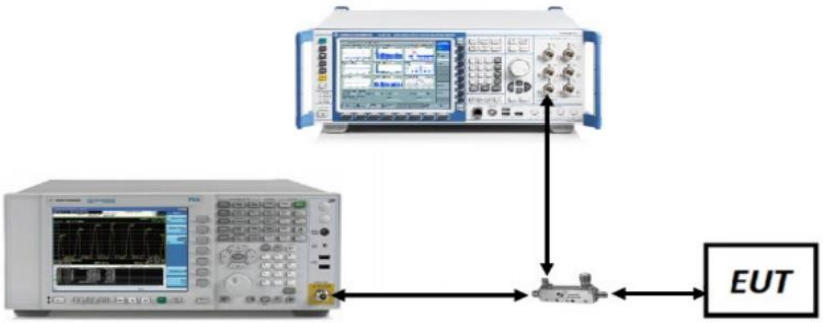
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW > 1% of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points ≥ 2 x Span/RBW
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Note

According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of The authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. All measurements were done at 2 channels(low and high operational frequency range.)

The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

10.3 Measurement Setup



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10.4 Measurement Result

Note: The test data please reference to attachment “AGC00408250704FR05_Appendix Data”

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11. Spurious Emissions at Antenna Terminal

11.1 Provisions Applicable

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

11.2 Measurement Procedure

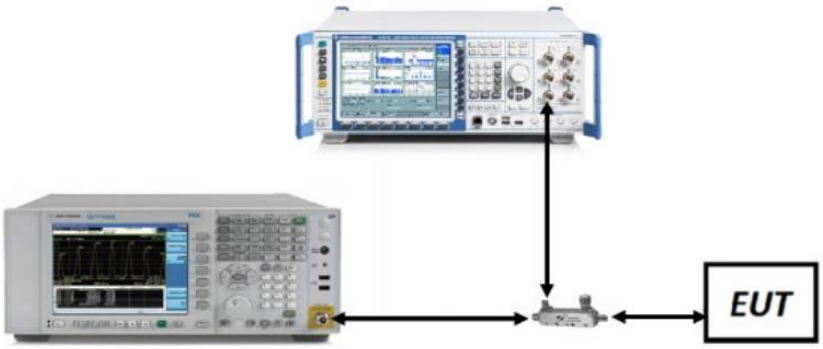
■ **Test Settings (GSM)**

1. RBW = 1 MHz
2. VBW ≥ 3 MHz
3. Detector = Peak
4. Trace Mode = max hold
5. Sweep time = auto
6. Number of points in sweep ≥ 2 x Span / RBW

■ **Test Settings (WCDMA)**

1. RBW = 1 MHz
2. VBW ≥ 3 MHz
3. Detector = RMS
4. Trace Mode = trace average
5. Sweep time = auto
6. Number of points in sweep ≥ 2 x Span / RBW

11.3 Measurement Setup



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11.4 Measurement Result

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12. Radiated Spurious Emission

12.1. Provisions Applicable

(A) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm.

At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

(B) For specific criteria, please refer to the description in section 9.2 of the report for corresponding evaluation.

12.2. 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 emissions, 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 VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. 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

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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. For spurious emissions above 1GHz, a horn antenna is substituted in place of the EUT.
12. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
13. The spurious emissions is calculated by the following formula;
    - ✧ Result(dBm) = Pg(dBm) +Factor(dB)
    - ✧ Factor(dB) = Ant Gain(dB)-Cable Loss(dB) + Power Splitter(dB) (Above 1GHz)
    - ✧ Factor(dB) = Ant Gain(dB)-Cable Loss(dB) (Below 1GHz)
14. Where: P_{gis} the generator output power into the substitution antenna.
15. If the Fundamental frequency is below 1GHz, RF output power has been converted to EIRP.
    - ✧ EIRP (dBm) = ERP (dBm) + 2.15

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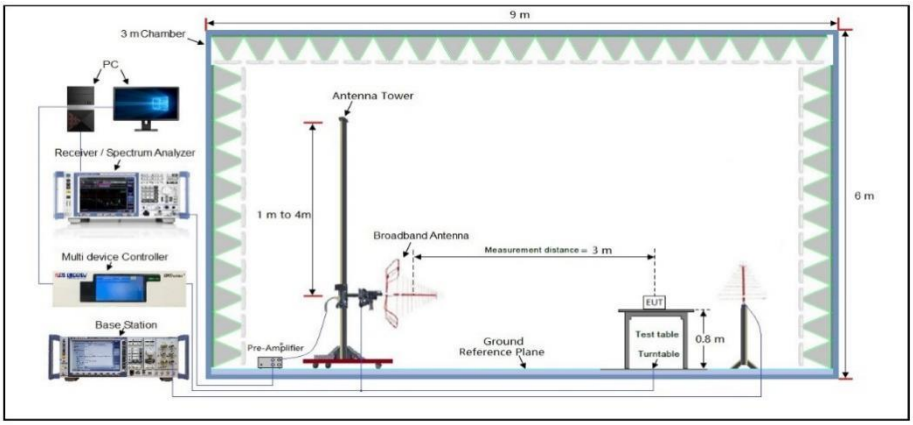
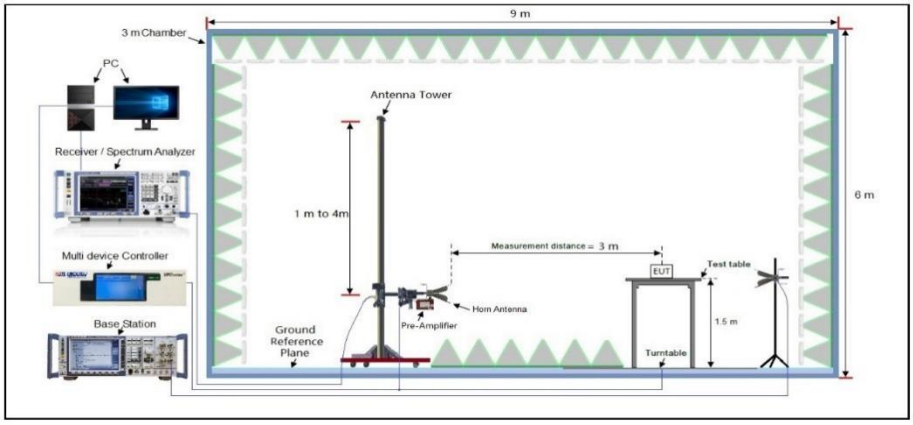
12.3. Measurement Setup

Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



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12.4 Measurement Result

The measurement Below 1GHz data as follows:

GSM 850							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	159.79	-65.37	15.52	-49.85	-13.00	-36.85	Horizontal
2	240.16	-63.02	16.75	-46.27	-13.00	-33.27	Horizontal
3	754.05	-58.92	19.35	-39.57	-13.00	-26.57	Horizontal
4	46.708	-64.80	10.44	-54.36	-13.00	-41.36	Vertical
5	433.42	-61.97	17.75	-44.22	-13.00	-31.22	Vertical
6	502.21	-58.06	18.66	-39.40	-13.00	-26.40	Vertical
GSM_ Middle Channel							
1	31.69	-62.59	9.78	-52.81	-13.00	-39.81	Horizontal
2	159.59	-62.53	13.75	-48.78	-13.00	-35.78	Horizontal
3	240.14	-60.87	16.75	-44.12	-13.00	-31.12	Horizontal
4	43.23	-64.06	10.23	-53.83	-13.00	-40.83	Vertical
5	433.40	-61.46	17.75	-43.71	-13.00	-30.71	Vertical
6	498.30	-59.22	18.02	-41.20	-13.00	-28.20	Vertical
GSM_ Highest Channel							
1	159.59	-62.43	13.75	-48.68	-13.00	-35.68	Horizontal
2	240.44	-61.87	16.75	-45.12	-13.00	-32.12	Horizontal
3	679.35	-57.35	19.01	-38.34	-13.00	-25.34	Horizontal
4	43.33	-59.37	10.23	-49.14	-13.00	-36.14	Vertical
5	433.40	-58.75	17.75	-41.00	-13.00	-28.00	Vertical
6	498.70	-66.70	18.02	-48.68	-13.00	-35.68	Vertical

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PCS 1900							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	159.76	-65.80	15.52	-50.28	-13.00	-37.28	Horizontal
2	240.14	-61.71	16.75	-44.96	-13.00	-31.96	Horizontal
3	754.96	-58.11	19.35	-38.76	-13.00	-25.76	Horizontal
4	46.71	-63.62	10.44	-53.18	-13.00	-40.18	Vertical
5	433.34	-59.34	17.75	-41.59	-13.00	-28.59	Vertical
6	502.25	-57.52	18.66	-38.86	-13.00	-25.86	Vertical
GSM_ Middle Channel							
1	31.74	-63.55	9.78	-53.77	-13.00	-40.77	Horizontal
2	159.76	-63.87	13.75	-50.12	-13.00	-37.12	Horizontal
3	240.14	-61.75	16.75	-45.00	-13.00	-32.00	Horizontal
4	43.23	-64.91	10.23	-54.68	-13.00	-41.68	Vertical
5	433.34	-62.40	17.75	-44.65	-13.00	-31.65	Vertical
6	498.73	-60.65	18.02	-42.63	-13.00	-29.63	Vertical
GSM_ Highest Channel							
1	159.82	-64.06	13.75	-50.31	-13.00	-37.31	Horizontal
2	240.53	-62.28	16.75	-45.53	-13.00	-32.53	Horizontal
3	679.77	-57.81	19.01	-38.80	-13.00	-25.80	Horizontal
4	43.63	-63.25	10.23	-53.02	-13.00	-40.02	Vertical
5	433.45	-60.57	17.75	-42.82	-13.00	-29.82	Vertical
6	498.66	-57.55	18.02	-39.53	-13.00	-26.53	Vertical

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WCDMA Band II							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	159.99	-66.53	15.52	-51.01	-13.00	-38.01	Horizontal
2	240.52	-63.07	16.75	-46.32	-13.00	-33.32	Horizontal
3	754.63	-58.64	19.35	-39.29	-13.00	-26.29	Horizontal
4	46.74	-64.98	10.44	-54.54	-13.00	-41.54	Vertical
5	433.52	-60.93	17.75	-43.18	-13.00	-30.18	Vertical
6	502.63	-59.67	18.66	-41.01	-13.00	-28.01	Vertical
RMC 12.2kbps_ Middle Channel							
1	31.89	-62.96	9.78	-53.18	-13.00	-40.18	Horizontal
2	159.14	-64.38	13.75	-50.63	-13.00	-37.63	Horizontal
3	240.05	-61.34	16.75	-44.59	-13.00	-31.59	Horizontal
4	43.42	-63.76	10.23	-53.53	-13.00	-40.53	Vertical
5	433.20	-63.55	17.75	-45.80	-13.00	-32.80	Vertical
6	498.70	-58.94	18.02	-40.92	-13.00	-27.92	Vertical
RMC 12.2kbps_ Highest Channel							
1	159.75	-63.23	13.75	-49.48	-13.00	-36.48	Horizontal
2	240.14	-63.06	16.75	-46.31	-13.00	-33.31	Horizontal
3	679.45	-59.20	19.01	-40.19	-13.00	-27.19	Horizontal
4	43.23	-64.06	10.23	-53.83	-13.00	-40.83	Vertical
5	433.40	-62.38	17.75	-44.63	-13.00	-31.63	Vertical
6	498.30	-58.92	18.02	-40.90	-13.00	-27.90	Vertical

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WCDMA Band IV							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	159.93	-65.99	15.52	-50.47	-13.00	-37.47	Horizontal
2	240.01	-62.39	16.75	-45.64	-13.00	-32.64	Horizontal
3	754.51	-60.02	19.35	-40.67	-13.00	-27.67	Horizontal
4	46.63	-65.10	10.44	-54.66	-13.00	-41.66	Vertical
5	433.30	-61.49	17.75	-43.74	-13.00	-30.74	Vertical
6	502.27	-59.54	18.66	-40.88	-13.00	-27.88	Vertical
RMC 12.2kbps_ Middle Channel							
1	31.65	-62.70	9.78	-52.92	-13.00	-39.92	Horizontal
2	159.59	-63.81	13.75	-50.06	-13.00	-37.06	Horizontal
3	240.44	-61.72	16.75	-44.97	-13.00	-31.97	Horizontal
4	43.33	-64.01	10.23	-53.78	-13.00	-40.78	Vertical
5	433.40	-62.51	17.75	-44.76	-13.00	-31.76	Vertical
6	498.30	-59.29	18.02	-41.27	-13.00	-28.27	Vertical
RMC 12.2kbps_ Highest Channel							
1	159.63	-63.62	13.75	-49.87	-13.00	-36.87	Horizontal
2	240.25	-62.44	16.75	-45.69	-13.00	-32.69	Horizontal
3	679.46	-59.01	19.01	-40.00	-13.00	-27.00	Horizontal
4	43.13	-63.53	10.23	-53.30	-13.00	-40.30	Vertical
5	433.20	-61.58	17.75	-43.83	-13.00	-30.83	Vertical
6	498.60	-59.57	18.02	-41.55	-13.00	-28.55	Vertical

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WCDMA Band V							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	159.96	-65.97	15.52	-50.45	-13.00	-37.45	Horizontal
2	240.03	-62.39	16.75	-45.64	-13.00	-32.64	Horizontal
3	754.41	-60.25	19.35	-40.90	-13.00	-27.90	Horizontal
4	46.69	-64.87	10.44	-54.43	-13.00	-41.43	Vertical
5	433.10	-61.51	17.75	-43.76	-13.00	-30.76	Vertical
6	502.07	-59.64	18.66	-40.98	-13.00	-27.98	Vertical
RMC 12.2kbps_ Middle Channel							
1	31.25	-62.61	9.78	-52.83	-13.00	-39.83	Horizontal
2	159.59	-63.47	13.75	-49.72	-13.00	-36.72	Horizontal
3	240.14	-61.87	16.75	-45.12	-13.00	-32.12	Horizontal
4	43.23	-63.76	10.23	-53.53	-13.00	-40.53	Vertical
5	433.34	-62.19	17.75	-44.44	-13.00	-31.44	Vertical
6	498.58	-59.31	18.02	-41.29	-13.00	-28.29	Vertical
RMC 12.2kbps_ Highest Channel							
1	159.75	-64.44	13.75	-50.69	-13.00	-37.69	Horizontal
2	240.14	-62.38	16.75	-45.63	-13.00	-32.63	Horizontal
3	679.43	-59.87	19.01	-40.86	-13.00	-27.86	Horizontal
4	43.23	-64.31	10.23	-54.08	-13.00	-41.08	Vertical
5	433.34	-61.38	17.75	-43.63	-13.00	-30.63	Vertical
6	498.22	-59.91	18.02	-41.89	-13.00	-28.89	Vertical

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The measurement Above 1GHz data as follows:

GSM 850							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	1648.400	-88.03	23.50	-64.53	-13.00	-51.53	Horizontal
2	2472.600	-87.75	29.47	-58.28	-13.00	-45.28	Horizontal
3	1648.400	-89.09	23.72	-65.37	-13.00	-52.37	Vertical
4	2472.600	-89.03	29.47	-59.56	-13.00	-46.56	Vertical
GSM_ Middle Channel							
1	1673.200	-88.15	23.50	-64.65	-13.00	-51.65	Horizontal
2	2509.800	-90.75	29.47	-61.28	-13.00	-48.28	Horizontal
3	1673.200	-87.77	23.72	-64.05	-13.00	-51.05	Vertical
4	2509.800	-92.41	29.47	-62.94	-13.00	-49.94	Vertical
GSM_ Highest Channel							
1	1697.600	-91.69	23.50	-68.19	-13.00	-55.19	Horizontal
2	2546.400	-92.58	29.47	-63.11	-13.00	-50.11	Horizontal
3	1697.600	-92.34	23.72	-68.62	-13.00	-55.62	Vertical
4	2546.400	-93.20	29.47	-63.73	-13.00	-50.73	Vertical

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PCS 1900							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
GSM_ Lowest Channel							
1	3700.400	-85.81	32.11	-53.70	-13.00	-40.70	Horizontal
2	5550.600	-85.79	33.21	-52.58	-13.00	-39.58	Horizontal
3	3700.400	-87.74	32.09	-55.65	-13.00	-42.65	Vertical
4	5550.600	-86.25	34.03	-52.22	-13.00	-39.22	Vertical
GSM_ Middle Channel							
1	3760.000	-82.14	32.11	-50.03	-13.00	-37.03	Horizontal
2	5640.000	-85.04	33.21	-51.83	-13.00	-38.83	Horizontal
3	3760.000	-89.33	32.09	-57.24	-13.00	-44.24	Vertical
4	5640.000	-86.41	34.03	-52.38	-13.00	-39.38	Vertical
GSM_ Highest Channel							
1	3819.600	-88.79	32.11	-56.68	-13.00	-43.68	Horizontal
2	5729.400	-88.49	33.21	-55.28	-13.00	-42.28	Horizontal
3	3819.600	-90.87	32.09	-58.78	-13.00	-45.78	Vertical
4	5729.400	-89.02	34.03	-54.99	-13.00	-41.99	Vertical

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WCDMA Band II							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	3704.800	-82.79	31.09	-51.70	-13.00	-38.70	Horizontal
2	5557.200	-90.01	34.14	-55.87	-13.00	-42.87	Horizontal
3	3704.800	-80.93	33.13	-47.80	-13.00	-34.80	Vertical
4	5557.200	-85.89	32.66	-53.23	-13.00	-40.23	Vertical
RMC 12.2kbps_ Middle Channel							
1	3760.000	-80.00	31.09	-48.91	-13.00	-35.91	Horizontal
2	5640.000	-88.12	34.14	-53.98	-13.00	-40.98	Horizontal
3	3760.000	-79.87	33.13	-46.74	-13.00	-33.74	Vertical
4	5640.000	-84.78	32.66	-52.12	-13.00	-39.12	Vertical
RMC 12.2kbps_ Highest Channel							
1	3815.200	-83.12	31.09	-52.03	-13.00	-39.03	Horizontal
2	5722.800	-85.99	34.14	-51.85	-13.00	-38.85	Horizontal
3	3815.200	-82.47	33.13	-49.34	-13.00	-36.34	Vertical
4	5722.800	-83.20	32.66	-50.54	-13.00	-37.54	Vertical

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WCDMA Band IV							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	3424.800	-90.14	32.11	-58.03	-13.00	-45.03	Horizontal
2	5137.200	-87.93	33.21	-54.72	-13.00	-41.72	Horizontal
3	3424.800	-90.61	32.09	-58.52	-13.00	-45.52	Vertical
4	5137.200	-87.54	34.03	-53.51	-13.00	-40.51	Vertical
RMC 12.2kbps_ Middle Channel							
1	3464.800	-88.63	32.11	-56.52	-13.00	-43.52	Horizontal
2	5197.200	-87.23	33.21	-54.02	-13.00	-41.02	Horizontal
3	3464.800	-90.27	32.09	-58.18	-13.00	-45.18	Vertical
4	5197.200	-87.14	34.03	-53.11	-13.00	-40.11	Vertical
RMC 12.2kbps_ Highest Channel							
1	3505.200	-88.88	32.11	-56.77	-13.00	-43.77	Horizontal
2	5257.800	-85.38	33.21	-52.17	-13.00	-39.17	Horizontal
3	3505.200	-89.54	32.09	-57.45	-13.00	-44.45	Vertical
4	5257.800	-86.35	34.03	-52.32	-13.00	-39.32	Vertical

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WCDMA Band V							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	1652.800	-83.99	23.12	-60.87	-13.00	-47.87	Horizontal
2	2479.200	-86.10	28.47	-57.63	-13.00	-44.63	Horizontal
3	1652.800	-83.85	23.12	-60.73	-13.00	-47.73	Vertical
4	2479.200	-83.48	28.47	-55.01	-13.00	-42.01	Vertical
RMC 12.2kbps_ Middle Channel							
1	1672.800	-81.58	23.12	-58.46	-13.00	-45.46	Horizontal
2	2509.200	-84.12	28.47	-55.65	-13.00	-42.65	Horizontal
3	1672.800	-82.87	23.12	-59.75	-13.00	-46.75	Vertical
4	2509.200	-82.54	28.47	-54.07	-13.00	-41.07	Vertical
RMC 12.2kbps_ Highest Channel							
1	1693.200	-80.93	23.12	-57.81	-13.00	-44.81	Horizontal
2	2539.800	-82.86	28.47	-54.39	-13.00	-41.39	Horizontal
3	1693.200	-80.95	23.12	-57.83	-13.00	-44.83	Vertical
4	2539.800	-81.30	28.47	-52.83	-13.00	-39.83	Vertical

Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit
4. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test. Subsequently, only the worst case emissions are reported.

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13. Frequency Stability / Variation of Ambient Temperature

13.1 Provisions Applicable

13.1.1 For Hand carried battery powered equipment

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

a) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.

b) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency. For Part 24 and Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

13.1.2 For equipment powered by primary supply voltage

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a
2. reference).
3. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to
4. the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
5. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at
6. least one half-hour is provided to allow stabilization of the equipment at each temperature level.

13.2 Measurement Procedure

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30℃. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on channel 20175 for LTE band 4 measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
3. Repeat the above measurements at 10℃ increments from -30℃ to +50℃. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
4. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each

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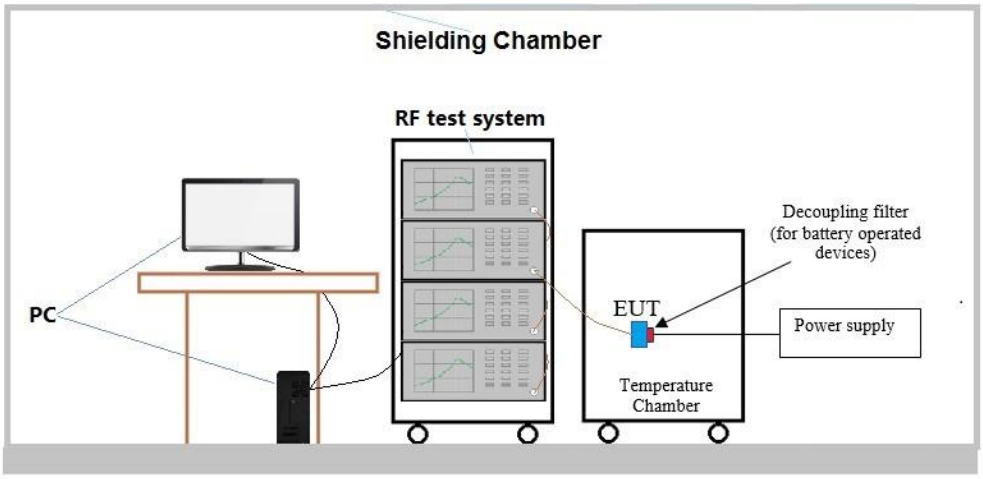
voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.

5. Subject the EUT to overnight soak at +50℃.
6. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
7. Repeat the above measurements at 10℃ increments from +50℃ to -30℃. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
8. At all temperature levels hold the temperature to +/- 0.5℃ during the measurement procedure.

13.3 Measurement Setup



13.4 Measurement Result

Note: The test data please reference to attachment “AGC00408250704FR05_Appendix Data”

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC00408250704AP04

Appendix II: Photographs of EUT

Refer to the Report No.: AGC00408250704AP03

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.

Conditions of Issuance of Test Reports

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. 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.
5. 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.
6. 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.
7.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.
8. 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.
9. 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.

-----End of Report-----

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.