FCC Test Report

Report No.: AGC00408230802FR07A

FCC ID	:	2A3DR-AGMH6
APPLICATION PURPOSE	:	Class II Permissive Change
PRODUCT DESIGNATION	:	4G Smart Phone
BRAND NAME	:	AGM
MODEL NAME	:	AGM_H_MAX
APPLICANT	:	AGM MOBILE LIMITED
DATE OF ISSUE	:	Sep. 13, 2024
STANDARD(S)	:	FCC Part 22 Subpart H FCC Part 24 Subpart E FCC Part 27 Subpart M/L FCC Part 90 Subpart S
REPORT VERSION	:	V1.0

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

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 13, 2024	Valid	Initial Release

Note: The original test report AGC00408230802FR07A (dated Aug. 22, 2023 and tested from Aug.11, 2023 to Aug. 22, 2023) was modified on Sep. 13, 2024, including the following changes and additions:

- Changed model name.
- Changed software version.
- Changed manufacturer, manufacturer address, factory and factory address.
- Changed rated voltage of battery and model name and manufacturer.
- Changed the circuit components of the headphones (added geomagnetic function).
- Changed the appearance, size, and thickness of the product.
- Changed the appearance and gain of the antenna.

Other electrical components and motherboard circuits are exactly the same.

Based on the above changes, RF power, Equivalent (Isotropic) Radiated Power and RADIATED EMISSION has were subjected to re-evaluation testing.

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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	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
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	4G Smart Phone
Brand Name	AGM
Test Model	AGM_H_MAX
Date of receipt of test item	Aug. 14, 2024
Date of Test	Aug. 14, 2024~Sep. 13, 2024
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-LTE-V1

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

Prepared By	Bibo Zhang (Project Engineer)	Sep. 13, 2024
Reviewed By	Calvin Liu (Reviewer)	Sep. 13, 2024
Approved By	Max Zhang (Authorized Officer)	Sep. 13, 2024

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2. Product Information

2.1 Product Technical Description

Support Networks	LTE Function			
Hardware Version	S681_V1			
Software Version	Android 14			
Support Frequency Band	☒FDD Band 2	☒FDD Band 4	☒FDD Band 5	☐FDD Band 7
	☒FDD Band 12	☐FDD Band 13	☐FDD Band 14	☒FDD Band 26
	☐TDD Band 38	☐TDD Band 40	☒TDD Band 41	☐FDD Band 66
	☐FDD Band 71	(U.S. Bands)		
	☐FDD Band 1	☐FDD Band 3	☐FDD Band 8	☐FDD Band 19
	☐FDD Band 20	☐FDD Band 28	☐TDD Band 38	☐TDD Band 39
	(Non-U.S. Bands)			
TX Frequency Range	LTE-Band 2	1850.7 MHz – 1909.3 MHz---(1.4MHz)		
		1851.5 MHz – 1908.5 MHz---(3.0MHz)		
		1852.5 MHz – 1907.5 MHz---(5.0MHz)		
		1855.0 MHz – 1905.0 MHz---(10.0MHz)		
		1857.5 MHz – 1902.5 MHz---(15.0MHz)		
		1860.0 MHz – 1900.0 MHz---(20.0MHz)		
	LTE-Band 4	1710.7 MHz – 1754.3 MHz---(1.4MHz)		
		1711.5 MHz – 1753.5 MHz---(3.0MHz)		
		1712.5 MHz – 1752.5 MHz---(5.0MHz)		
		1715.0 MHz – 1750.0 MHz---(10.0MHz)		
		1717.5 MHz – 1747.5 MHz---(15.0MHz)		
		1720.0 MHz – 1745.0 MHz---(20.0MHz)		
	LTE-Band 5	824.7 MHz – 848.3 MHz---(1.4MHz)		
		825.5 MHz – 847.5MHz---(3.0MHz)		
		826.5 MHz – 846.5 MHz---(5.0MHz)		
		829.0 MHz – 844.0 MHz---(10.0MHz)		
	LTE-Band 12	699.7 MHz – 715.3 MHz---(1.4MHz)		
		700.5 MHz – 714.5 MHz---(3.0MHz)		
		701.5 MHz – 713.5 MHz---(5.0MHz)		
		704.0 MHz – 711.0 MHz---(10.0MHz)		
	LTE-Band 26A	824.7 MHz –848.3 MHz---(1.4MHz)		
		825.5 MHz–847.5 MHz---(3.0MHz)		
		826.5 MHz-846.5 MHz ---(5.0MHz)		
		829.0 MHz-844.0 MHz---(10.0MHz)		

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		831.5 MHz-841.5 MHz ---(15.0MHz)		
	LTE-Band 26B	814.7 MHz-823.3 MHz ---(1.4MHz)		
		815.5 MHz -822.5 MHz---(3.0MHz)		
		816.5 MHz -821.5 MHz---(5.0MHz)		
		819.0 MHz -819.0 MHz---(10.0MHz)		
		821.5 MHz -821.5 MHz ---(15.0MHz)		
	LTE-Band 41	2498.5 MHz –2687.5 MHz---(5.0MHz)		
		2501.0 MHz –2685.0 MHz---(10.0MHz)		
		2503.5 MHz –2682.5 MHz---(15.0MHz)		
		2506.0 MHz –2680.0 MHz---(20.0MHz)		
Type of Modulation	QPSK/16QAM			
Antenna Designation	PIFA Antenna			
Antenna gain	Band 2:-1.83dBi	Band 4:-1.26dBi	Band 5:-3.01dBi	Band 12:-3.58dBi
	Band26A:-3.01dBi	Band26B:-3.07dBi	Band 41:-0.55dBi	
Power Supply	DC 3.85V by Built-in Li-ion Battery			
Dual Card	WCDMA/LTE Card Slot			
Power Class	3			
Extreme Vol. Limits	DC 3.27V to 4.4V V (Normal: 3.85V)			
Extreme Temp. Tolerance	-30 °C to +50 °C			
Temperature range	-20 °C to +50 °C			
Note: The High Voltage DC 4.40 V and Low Voltage DC 3.27V were declared by manufacturer, The EUT couldn't be operating normally with higher or lower voltage..				

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2.2 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2A3DR-AGMH6,** filing to comply with Part 2, Part 22/24/27/90 of 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	47 CFR FCC Part 90	Private Land Mobile Radio Services.
6	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
7	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
8	KDB 971168	D01 v03r01 Measurement Guidance For Certification Of Licensed Digital Transmitters.

2.4 Device Capabilities

This device contains the following capabilities:

- 850/1900 GSM/GPRS/EGPRS,850/1900 WCDMA/HSPA, Multi-Band LTE,802.11 b/g/n for WLAN,802.11 a/n/ac for UNII, Bluetooth (1X,EDR,LE),GPS, NFC.
- This device uses a tuner circuit that dynamically updates the antenna impedance parameters to optimize antenna performance for certain bands and modes of operation. The tuner for this device was set to simulate a "free space"condition where the transmit antenna is matched to the medium into which it is transmitting and, thus, the power is at its maximum level.
- ➢ LTE Band 12 (698 - 716 MHz) overlaps the entire frequency range of LTE Band 17 (704 - 716 MHz). Therefore,test data provided in this report covers Band 17 as well as Band 12.
- ➢ LTE Band 26 (814.7-849 MHz) overlaps the entire frequency range of LTE Band 5 (824 – 849 MHz). Therefore,test data provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.
- ➢ LTE Band 41 (2496-2690 MHz) overlaps the entire frequency range of LTE Band 38 (2560 - 2620 MHz). Therefore, test data provided in this report covers Band 41 as well as Band 38.
- The above inclusion relationship is only a statement of the frequency coverage between the LTE working bands, and the actual supported frequency bands are subject to the reported data.

- 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

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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.

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.

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℃	-30℃~50℃
Humidity range	20 % to 75 %.	20 % to 75 %.
Pressure range	86-106kPa	86-106kPa
Power supply	DC 3.85V	DC3.27V or 4.4V
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-40GHz	±2.20 dB
Occupied Bandwidth	±0.01ppm
Radiated Emission 30~1000MHz	±4.10dB
Radiated Emission Above 1GHz	±4.32dB
Conducted Disturbance0.15~30MHz	±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	2024-02-01	2025-01-31
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2024-05-28	2025-05-27
☒	AGC-ER-E032	Universal Radio Communication Tester	R&S	CMW500	120909	2024-05-28	2025-05-27
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
☒	AGC-EM-E005	Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	2023-01-05	2025-01-04
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2024-03-31	2025-03-30
☒	AGC-EM-E102	Broadband Ridged Horn Antenna	ETS	3117	00154520	2023-06-03	2025-06-02
☐	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2024-05-23	2025-05-22
☒	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08
☒	AGC-EM-A090	High Pass Filter 1 (2500-18000MHz)	N/A	N/A	N/A	2024-05-23	2025-05-22
☒	AGC-EM-A091	High Pass Filter 2 (1200-18000MHz)	N/A	N/A	N/A	2024-05-23	2025-05-22
☒	AGC-EM-A113	Band Stop Filter (825-850MHz)	MICRO-TRONICS	BRC50717	N/A	2024-05-23	2025-05-22
☒	AGC-EM-A114	Band Stop Filter (880-915MHz)	MICRO-TRONICS	BRC50718	N/A	2024-05-23	2025-05-22
☒	AGC-EM-A115	Band Stop Filter (1710-1785MHz)	MICRO-TRONICS	BRC50719	N/A	2024-05-23	2025-05-22
☒	AGC-EM-A116	Band Stop Filter (1850-1950MHz)	MICRO-TRONICS	BRC50720	N/A	2024-05-23	2025-05-22
☒	AGC-EM-A117	Band Stop Filter (1920-1980MHz)	MICRO-TRONICS	BRC50721	N/A	2024-05-23	2025-05-22

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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

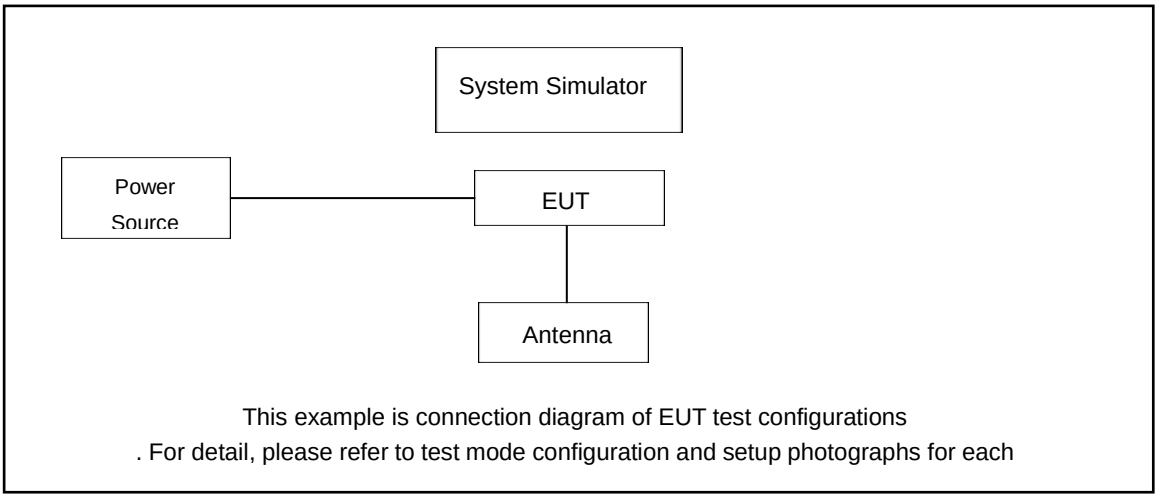

Table 2-1 Equipment Used in EUT System

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

Item	Equipment	Model No.	Identifier	Note
1	Adapter	U312E0A050200	Input: AC 100-240V 50/60Hz, 0.35A Output: DC 5.0V 2A	AE
2	Battery	AGM_H_MAX	DC 3.85V 10000mAh	AE
3	USB Cable	N/A	N/A	AE

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5. Summary of Test Results

5.1 Test Condition: Radiated Test

Item	Test Description	FCC Rules	Result
1	Effective Radiated Power Equivalent Isotropic Radiated Power	§24.232(c), §27.50(d)(4) §27.50(h)(2), §27.50(c)(10) §22.913(a)(5)	Pass
2	Radiated Spurious and Harmonic Emissions	§2.1053, §24.238(a), §27.53(h) §27.53(m)(4), §27.53(g), §90.691 §22.917(a)	Pass

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6. Description of Test Modes

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester (CMW 500) to ensure max power transmission and proper modulation. Three channels (The top channel, the middle channel and the bottom channel) were chosen for testing on both LTE frequency band.
The worst condition was recorded in the test report if no other modes test data.

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

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LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 26A Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

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LTE Band 26B Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
15	Channel	26765	--	--
	Frequency	821.5	--	--
10	Channel	--	26740	--
	Frequency	--	819.0	--
5	Channel	26715	26740	26765
	Frequency	816.5	819.0	821.5
3	Channel	26705	26740	26775
	Frequency	815.5	819.0	822.5
1.4	Channel	26697	26740	26783
	Frequency	814.7	819.0	823.3

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506.0	2593.0	2680.0
15	Channel	39725	40620	41515
	Frequency	2503.5	2593.0	2682.5
10	Channel	39700	40620	41540
	Frequency	2501.0	2593.0	2685.0
5	Channel	39675	40620	41565
	Frequency	2498.5	2593.0	2687.5

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Test Mode	Test Modes Description
LTE BAND 2	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 4	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 5	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 12	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 26A	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 26B	LTE system, QPSK modulation
	LTE system, 16QAM modulation
LTE BAND 41	LTE system, QPSK modulation
	LTE system, 16QAM modulation

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- **According to 3GPP 36.521 sub-clause 6.2.3.3, the maximum output power is allowed to be reduced by following the table.**

Table 6.2.3.3-1: Maximum Power Reduction (MPR) For Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4 MHz	3.0 MHz	5MHz	10MHz	15MHz	20MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

- 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 (For PRACH, PUCCH and SRS transmission, the allowed MPR is according to that specified for PUSCH QPSK modulation for the corresponding transmission bandwidth.).
- When PRACH, PUCCH 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.
- For each subframe, the MPR is evaluated per slot and given by the maximum value taken over the transmission(s) within the slot, the maximum MPR over the two slots is then applied for the entire subframe.
- For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5.3 apply.
- The normative reference for this requirement is TS 36.101 clause 6.2.3.
- 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. Radiated Output Power

7.1 Provisions Applicable

The radiation test is carried out in a semi-anechoic chamber.
According to the test, put the device under test on a non-conductive platform 3 meters away from the receiving antenna (ANSI/TIA-603-E-2016 Article 2.2.17).
The following rules are for the maximum radiated power limit requirements of the product:

Mode	Nominal Max. Power
LTE Band 2	< 2 Watts max. EIRP (33dBm)
LTE Band 4	< 1 Watts max. EIRP (30dBm)
LTE Band 5	< 7 Watts max. ERP (38.45dBm)
LTE Band 12	< 3 Watts max. ERP (34.77dBm)
LTE Band 26A	< 7 Watts max. ERP (38.45dBm)
LTE Band 26B	< 7 Watts max. ERP (38.45dBm) < 100 Watts. Conducted Power (50dBm)
LTE Band 41	< 2 Watts max. EIRP (33dBm)

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7.2 Measurement Procedure

1. Radiated power measurements are performed using the signal analyzer's "channel power"
2. measurement capability for signals with continuous operation.
3. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
4. VBW ≥ 3 x RBW
5. Span = 1.5 times the OBW
6. No. of sweep points > 2 x span / RBW
7. Detector = RMS
8. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
9. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
10. Trace mode = trace averaging (RMS) over 100 sweeps
11. The trace was allowed to stabilize.

- **Radiation Construction Method：**

1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
2. A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, Horn antenna replaces EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
3. The power is calculated by the following formula：
4. Pd(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dB)
5. Where: Pd is the dipole equivalent power and Pg is the generator output power into the substitution antenna.
6. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration
7. The EUT was tested in three orthogonal planes (X, Y, Z) and in all possible test configurations and positioning.
8. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

7.3 Measurement Setup

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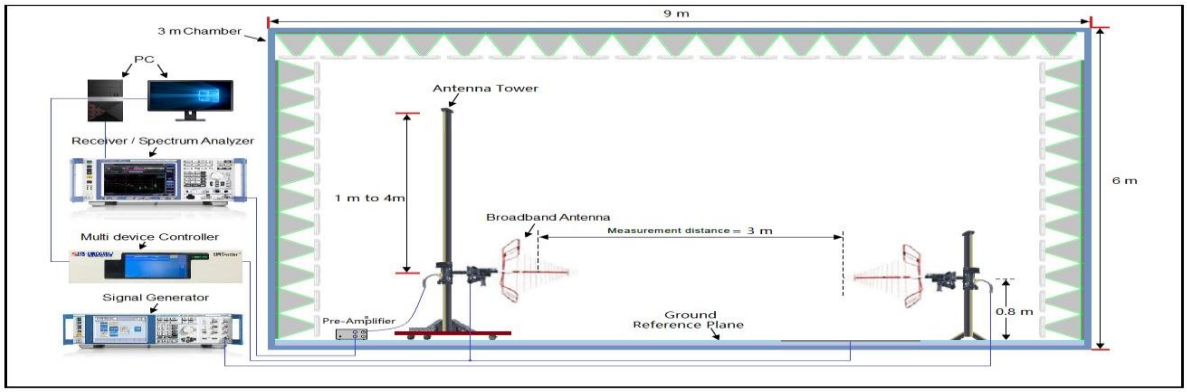
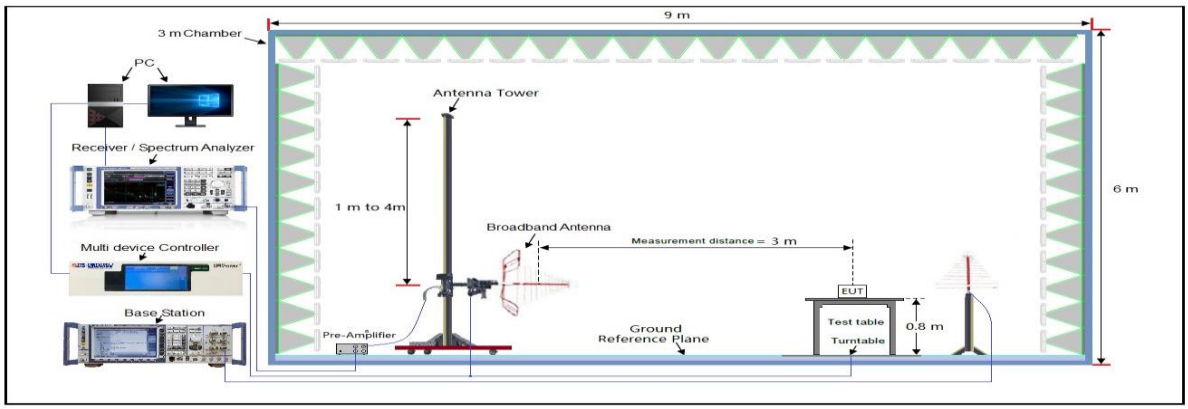
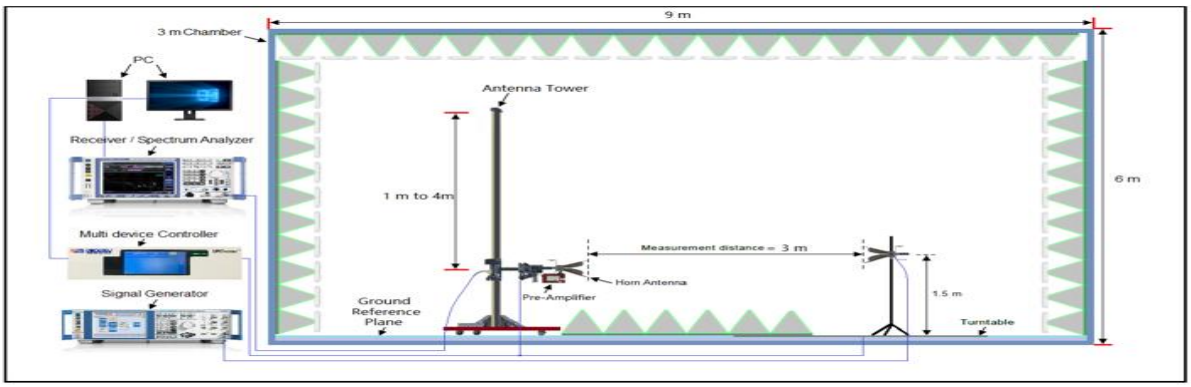
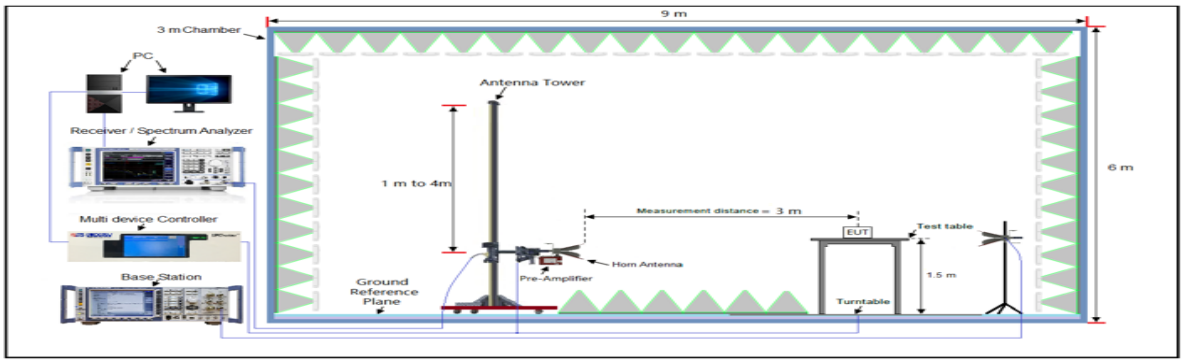
Radiated Power 30MHz to 1GHz Test setup





Radiated Power Above 1GHz Test setup





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7.4 Measurement Result

EIRP for LTE Band 2

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
1850.7	1.4	QPSK	1/0	12.76	V	7.95	0.79	19.92	33
1880.0	1.4	QPSK	1/0	12.41	V	7.95	0.79	19.57	33
1909.3	1.4	QPSK	1/0	12.46	V	7.95	0.79	19.62	33
1850.7	1.4	QPSK	1/0	14.87	H	7.95	0.79	22.03	33
1880.0	1.4	QPSK	1/0	14.83	H	7.95	0.79	21.99	33
1909.3	1.4	QPSK	1/0	14.90	H	7.95	0.79	22.06	33
1850.7	1.4	16-QAM	1/5	11.21	V	7.95	0.79	18.37	33
1880.0	1.4	16-QAM	1/0	10.68	V	7.95	0.79	17.84	33
1909.3	1.4	16-QAM	1/0	10.92	V	7.95	0.79	18.08	33
1850.7	1.4	16-QAM	1/5	13.77	H	7.95	0.79	20.93	33
1880.0	1.4	16-QAM	1/0	13.42	H	7.95	0.79	20.58	33
1909.3	1.4	16-QAM	1/0	13.50	H	7.95	0.79	20.66	33
1851.5	3	QPSK	1/0	12.16	V	7.95	0.79	19.32	33
1880.0	3	QPSK	1/0	12.06	V	7.95	0.79	19.22	33
1908.5	3	QPSK	1/0	12.38	V	7.95	0.79	19.54	33
1851.5	3	QPSK	1/0	14.74	H	7.95	0.79	21.90	33
1880.0	3	QPSK	1/0	14.75	H	7.95	0.79	21.91	33
1908.5	3	QPSK	1/0	14.85	H	7.95	0.79	22.01	33
1851.5	3	16-QAM	1/0	11.61	V	7.95	0.79	18.77	33
1880.0	3	16-QAM	1/0	11.26	V	7.95	0.79	18.42	33
1908.5	3	16-QAM	1/0	11.51	V	7.95	0.79	18.67	33
1851.5	3	16-QAM	1/0	13.95	H	7.95	0.79	21.11	33
1880.0	3	16-QAM	1/0	13.95	H	7.95	0.79	21.11	33
1908.5	3	16-QAM	1/0	14.08	H	7.95	0.79	21.24	33
1852.5	5	QPSK	1/0	10.66	V	7.95	0.79	17.82	33
1880.0	5	QPSK	1/0	12.34	V	7.95	0.79	19.50	33
1907.5	5	QPSK	1/24	12.37	V	7.95	0.79	19.53	33
1852.5	5	QPSK	1/0	12.88	H	7.95	0.79	20.04	33
1880.0	5	QPSK	1/0	14.80	H	7.95	0.79	21.96	33
1907.5	5	QPSK	1/24	14.84	H	7.95	0.79	22.00	33
1852.5	5	16-QAM	1/0	11.12	V	7.95	0.79	18.28	33
1880.0	5	16-QAM	1/0	11.01	V	7.95	0.79	18.17	33

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1907.5	5	16-QAM	1/24	11.66	V	7.95	0.79	18.82	33
1852.5	5	16-QAM	1/0	13.70	H	7.95	0.79	20.86	33
1880.0	5	16-QAM	1/0	13.70	H	7.95	0.79	20.86	33
1907.5	5	16-QAM	1/24	13.77	H	7.95	0.79	20.93	33
1855	10	QPSK	1/0	10.84	V	7.95	0.79	18.00	33
1880	10	QPSK	1/49	11.03	V	7.95	0.79	18.19	33
1905	10	QPSK	1/0	10.74	V	7.95	0.79	17.90	33
1855	10	QPSK	1/0	13.47	H	7.95	0.79	20.63	33
1880	10	QPSK	1/49	13.45	H	7.95	0.79	20.61	33
1905	10	QPSK	1/0	12.85	H	7.95	0.79	20.01	33
1855	10	16-QAM	1/0	12.30	V	7.95	0.79	19.46	33
1880	10	16-QAM	1/49	12.25	V	7.95	0.79	19.41	33
1905	10	16-QAM	1/0	12.12	V	7.95	0.79	19.28	33
1855	10	16-QAM	1/0	14.66	H	7.95	0.79	21.82	33
1880	10	16-QAM	1/49	14.63	H	7.95	0.79	21.79	33
1905	10	16-QAM	1/0	14.58	H	7.95	0.79	21.74	33
1857.5	15	QPSK	1/0	11.31	V	7.95	0.79	18.47	33
1880	15	QPSK	1/74	11.26	V	7.95	0.79	18.42	33
1902.5	15	QPSK	1/0	11.40	V	7.95	0.79	18.56	33
1857.5	15	QPSK	1/0	13.75	H	7.95	0.79	20.91	33
1880	15	QPSK	1/74	13.81	H	7.95	0.79	20.97	33
1902.5	15	QPSK	1/0	13.81	H	7.95	0.79	20.97	33
1857.5	15	16-QAM	1/0	11.64	V	7.95	0.79	18.80	33
1880	15	16-QAM	1/74	11.99	V	7.95	0.79	19.15	33
1902.5	15	16-QAM	1/0	12.21	V	7.95	0.79	19.37	33
1857.5	15	16-QAM	1/0	14.53	H	7.95	0.79	21.69	33
1880	15	16-QAM	1/74	14.48	H	7.95	0.79	21.64	33
1902.5	15	16-QAM	1/0	14.57	H	7.95	0.79	21.73	33
1860	20	QPSK	1/99	11.31	V	7.95	0.79	18.47	33
1880	20	QPSK	1/99	11.31	V	7.95	0.79	18.47	33
1900	20	QPSK	1/0	11.78	V	7.95	0.79	18.94	33
1860	20	QPSK	1/99	13.84	H	7.95	0.79	21.00	33
1880	20	QPSK	1/99	13.82	H	7.95	0.79	20.98	33
1900	20	QPSK	1/0	13.91	H	7.95	0.79	21.07	33
1860	20	16-QAM	1/99	11.90	V	7.95	0.79	19.06	33
1880	20	16-QAM	1/99	12.18	V	7.95	0.79	19.34	33

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1900	20	16-QAM	1/0	11.12	V	7.95	0.79	18.28	33
1860	20	16-QAM	1/99	14.74	H	7.95	0.79	21.90	33
1880	20	16-QAM	1/99	14.70	H	7.95	0.79	21.86	33
1900	20	16-QAM	1/0	13.75	H	7.95	0.79	20.91	33

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EIRP for LTE Band 4

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
1710.7	1.4	QPSK	1/0	14.39	V	7.95	0.79	21.55	30
1732.5	1.4	QPSK	1/0	13.07	V	7.95	0.79	20.23	30
1754.3	1.4	QPSK	1/0	13.68	V	7.95	0.79	20.84	30
1710.7	1.4	QPSK	1/0	15.64	H	7.95	0.79	22.80	30
1732.5	1.4	QPSK	1/0	15.32	H	7.95	0.79	22.48	30
1754.3	1.4	QPSK	1/0	15.81	H	7.95	0.79	22.97	30
1710.7	1.4	16-QAM	1/5	12.50	V	7.95	0.79	19.66	30
1732.5	1.4	16-QAM	1/0	12.34	V	7.95	0.79	19.5	30
1754.3	1.4	16-QAM	1/0	12.40	V	7.95	0.79	19.56	30
1710.7	1.4	16-QAM	1/5	14.48	H	7.95	0.79	21.64	30
1732.5	1.4	16-QAM	1/0	14.44	H	7.95	0.79	21.6	30
1754.3	1.4	16-QAM	1/0	14.72	H	7.95	0.79	21.88	30
1711.5	3	QPSK	1/0	12.50	V	7.95	0.79	19.66	30
1732.5	3	QPSK	1/0	12.25	V	7.95	0.79	19.41	30
1753.5	3	QPSK	1/0	12.28	V	7.95	0.79	19.44	30
1711.5	3	QPSK	1/0	14.92	H	7.95	0.79	22.08	30
1732.5	3	QPSK	1/0	14.60	H	7.95	0.79	21.76	30
1753.5	3	QPSK	1/0	14.69	H	7.95	0.79	21.85	30
1711.5	3	16-QAM	1/0	11.46	V	7.95	0.79	18.62	30
1732.5	3	16-QAM	1/0	11.49	V	7.95	0.79	18.65	30
1753.5	3	16-QAM	1/0	11.42	V	7.95	0.79	18.58	30
1711.5	3	16-QAM	1/0	13.57	H	7.95	0.79	20.73	30
1732.5	3	16-QAM	1/0	13.96	H	7.95	0.79	21.12	30
1753.5	3	16-QAM	1/0	13.79	H	7.95	0.79	20.95	30
1712.5	5	QPSK	1/0	10.60	V	7.95	0.79	17.76	30
1732.5	5	QPSK	1/0	12.78	V	7.95	0.79	19.94	30
1752.5	5	QPSK	1/24	12.37	V	7.95	0.79	19.53	30
1712.5	5	QPSK	1/0	12.59	H	7.95	0.79	19.75	30
1732.5	5	QPSK	1/0	14.95	H	7.95	0.79	22.11	30
1752.5	5	QPSK	1/24	14.71	H	7.95	0.79	21.87	30
1712.5	5	16-QAM	1/0	12.01	V	7.95	0.79	19.17	30
1732.5	5	16-QAM	1/0	11.30	V	7.95	0.79	18.46	30
1752.5	5	16-QAM	1/24	11.19	V	7.95	0.79	18.35	30
1712.5	5	16-QAM	1/0	14.58	H	7.95	0.79	21.74	30
1732.5	5	16-QAM	1/0	13.64	H	7.95	0.79	20.8	30
1752.5	5	16-QAM	1/24	13.63	H	7.95	0.79	20.79	30

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1715	10	QPSK	1/0	11.97	V	7.95	0.79	19.13	30
1732.5	10	QPSK	1/49	11.58	V	7.95	0.79	18.74	30
1750	10	QPSK	1/0	11.61	V	7.95	0.79	18.77	30
1715	10	QPSK	1/0	14.33	H	7.95	0.79	21.49	30
1732.5	10	QPSK	1/49	14.00	H	7.95	0.79	21.16	30
1750	10	QPSK	1/0	13.92	H	7.95	0.79	21.08	30
1715	10	16-QAM	1/0	12.57	V	7.95	0.79	19.73	30
1732.5	10	16-QAM	1/49	13.21	V	7.95	0.79	20.37	30
1750	10	16-QAM	1/0	12.83	V	7.95	0.79	19.99	30
1715	10	16-QAM	1/0	14.99	H	7.95	0.79	22.15	30
1732.5	10	16-QAM	1/49	15.65	H	7.95	0.79	22.81	30
1750	10	16-QAM	1/0	15.17	H	7.95	0.79	22.33	30
1717.5	15	QPSK	1/0	11.57	V	7.95	0.79	18.73	30
1732.5	15	QPSK	1/74	12.30	V	7.95	0.79	19.46	30
1747.5	15	QPSK	1/0	11.40	V	7.95	0.79	18.56	30
1717.5	15	QPSK	1/0	14.15	H	7.95	0.79	21.31	30
1732.5	15	QPSK	1/74	14.64	H	7.95	0.79	21.8	30
1747.5	15	QPSK	1/0	13.81	H	7.95	0.79	20.97	30
1717.5	15	16-QAM	1/0	12.46	V	7.95	0.79	19.62	30
1732.5	15	16-QAM	1/74	12.19	V	7.95	0.79	19.35	30
1747.5	15	16-QAM	1/0	12.18	V	7.95	0.79	19.34	30
1717.5	15	16-QAM	1/0	14.82	H	7.95	0.79	21.98	30
1732.5	15	16-QAM	1/74	14.56	H	7.95	0.79	21.72	30
1747.5	15	16-QAM	1/0	14.51	H	7.95	0.79	21.67	30
1720	20	QPSK	1/99	11.09	V	7.95	0.79	18.25	30
1732.5	20	QPSK	1/99	11.26	V	7.95	0.79	18.42	30
1745	20	QPSK	1/0	10.93	V	7.95	0.79	18.09	30
1720	20	QPSK	1/99	13.48	H	7.95	0.79	20.64	30
1732.5	20	QPSK	1/99	13.73	H	7.95	0.79	20.89	30
1745	20	QPSK	1/0	13.59	H	7.95	0.79	20.75	30
1720	20	16-QAM	1/99	10.13	V	7.95	0.79	17.29	30
1732.5	20	16-QAM	1/99	12.11	V	7.95	0.79	19.27	30
1745	20	16-QAM	1/0	12.35	V	7.95	0.79	19.51	30
1720	20	16-QAM	1/99	12.67	H	7.95	0.79	19.83	30
1732.5	20	16-QAM	1/99	14.47	H	7.95	0.79	21.63	30
1745	20	16-QAM	1/0	14.79	H	7.95	0.79	21.95	30

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ERP for LTE Band 5

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
824.7	1.4	QPSK	1/0	15.51	V	6.7	0.49	21.72	38.45
836.5	1.4	QPSK	1/0	14.76	V	6.7	0.49	20.97	38.45
848.3	1.4	QPSK	1/0	13.72	V	6.7	0.49	19.93	38.45
824.7	1.4	QPSK	1/0	16.96	H	6.7	0.49	23.17	38.45
836.5	1.4	QPSK	1/0	16.11	H	6.7	0.49	22.32	38.45
848.3	1.4	QPSK	1/0	15.35	H	6.7	0.49	21.56	38.45
824.7	1.4	16-QAM	1/0	13.45	V	6.7	0.49	19.66	38.45
836.5	1.4	16-QAM	1/0	14.37	V	6.7	0.49	20.58	38.45
848.3	1.4	16-QAM	1/0	12.58	V	6.7	0.49	18.79	38.45
824.7	1.4	16-QAM	1/0	15.00	H	6.7	0.49	21.21	38.45
836.5	1.4	16-QAM	1/0	16.00	H	6.7	0.49	22.21	38.45
848.3	1.4	16-QAM	1/0	14.32	H	6.7	0.49	20.53	38.45
825.5	3	QPSK	1/0	11.97	V	6.7	0.49	18.18	38.45
836.5	3	QPSK	1/0	12.63	V	6.7	0.49	18.84	38.45
847.5	3	QPSK	1/0	14.91	V	6.7	0.49	21.12	38.45
825.5	3	QPSK	1/0	17.09	H	6.7	0.49	23.3	38.45
836.5	3	QPSK	1/0	17.31	H	6.7	0.49	23.52	38.45
847.5	3	QPSK	1/0	16.26	H	6.7	0.49	22.47	38.45
825.5	3	16-QAM	1/0	14.58	V	6.7	0.49	20.79	38.45
836.5	3	16-QAM	1/0	14.68	V	6.7	0.49	20.89	38.45
847.5	3	16-QAM	1/0	14.80	V	6.7	0.49	21.01	38.45
825.5	3	16-QAM	1/0	16.11	H	6.7	0.49	22.32	38.45
836.5	3	16-QAM	1/0	16.10	H	6.7	0.49	22.31	38.45
847.5	3	16-QAM	1/0	16.17	H	6.7	0.49	22.38	38.45
826.5	5	QPSK	1/0	13.71	V	6.7	0.49	19.92	38.45
836.5	5	QPSK	1/0	13.65	V	6.7	0.49	19.86	38.45
846.5	5	QPSK	1/0	13.73	V	6.7	0.49	19.94	38.45
826.5	5	QPSK	1/0	16.94	H	6.7	0.49	23.15	38.45
836.5	5	QPSK	1/0	17.13	H	6.7	0.49	23.34	38.45
846.5	5	QPSK	1/0	16.77	H	6.7	0.49	22.98	38.45
826.5	5	16-QAM	1/0	15.35	V	6.7	0.49	21.56	38.45
836.5	5	16-QAM	1/0	14.73	V	6.7	0.49	20.94	38.45
846.5	5	16-QAM	1/0	14.32	V	6.7	0.49	20.53	38.45
826.5	5	16-QAM	1/0	16.10	H	6.7	0.49	22.31	38.45
836.5	5	16-QAM	1/0	15.87	H	6.7	0.49	22.08	38.45
846.5	5	16-QAM	1/0	16.17	H	6.7	0.49	22.38	38.45

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829	10	QPSK	1/0	14.83	V	6.7	0.49	21.04	38.45
836.5	10	QPSK	1/0	14.09	V	6.7	0.49	20.3	38.45
844	10	QPSK	1/0	13.81	V	6.7	0.49	20.02	38.45
829	10	QPSK	1/0	16.46	H	6.7	0.49	22.67	38.45
836.5	10	QPSK	1/0	15.67	H	6.7	0.49	21.88	38.45
844	10	QPSK	1/0	15.28	H	6.7	0.49	21.49	38.45
829	10	16-QAM	1/0	14.98	V	6.7	0.49	21.19	38.45
836.5	10	16-QAM	1/0	14.91	V	6.7	0.49	21.12	38.45
844	10	16-QAM	1/0	15.29	V	6.7	0.49	21.5	38.45
829	10	16-QAM	1/0	16.10	H	6.7	0.49	22.31	38.45
836.5	10	16-QAM	1/0	16.03	H	6.7	0.49	22.24	38.45
844	10	16-QAM	1/0	16.41	H	6.7	0.49	22.62	38.45

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ERP for LTE Band 12

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
699.7	1.4	QPSK	1/0	15.12	V	6.6	0.47	21.25	34.77
707.5	1.4	QPSK	1/0	14.95	V	6.6	0.47	21.08	34.77
715.3	1.4	QPSK	1/24	14.17	V	6.6	0.47	20.30	34.77
699.7	1.4	QPSK	1/0	16.64	H	6.6	0.47	22.77	34.77
707.5	1.4	QPSK	1/0	16.28	H	6.6	0.47	22.41	34.77
715.3	1.4	QPSK	1/24	15.80	H	6.6	0.47	21.93	34.77
699.7	1.4	16-QAM	1/0	13.60	V	6.6	0.47	19.73	34.77
707.5	1.4	16-QAM	1/0	14.40	V	6.6	0.47	20.53	34.77
715.3	1.4	16-QAM	1/24	14.49	V	6.6	0.47	20.62	34.77
699.7	1.4	16-QAM	1/0	14.92	H	6.6	0.47	21.05	34.77
707.5	1.4	16-QAM	1/0	15.81	H	6.6	0.47	21.94	34.77
715.3	1.4	16-QAM	1/24	15.91	H	6.6	0.47	22.04	34.77
700.5	3	QPSK	1/0	15.03	V	6.6	0.47	21.16	34.77
707.5	3	QPSK	1/49	14.43	V	6.6	0.47	20.56	34.77
714.5	3	QPSK	1/0	14.29	V	6.6	0.47	20.42	34.77
700.5	3	QPSK	1/0	16.55	H	6.6	0.47	22.68	34.77
707.5	3	QPSK	1/49	15.77	H	6.6	0.47	21.90	34.77
714.5	3	QPSK	1/0	15.87	H	6.6	0.47	22.00	34.77
700.5	3	16-QAM	1/0	14.07	V	6.6	0.47	20.20	34.77
707.5	3	16-QAM	1/49	14.06	V	6.6	0.47	20.19	34.77
714.5	3	16-QAM	1/0	13.60	V	6.6	0.47	19.73	34.77
700.5	3	16-QAM	1/0	15.42	H	6.6	0.47	21.55	34.77
707.5	3	16-QAM	1/49	15.42	H	6.6	0.47	21.55	34.77
714.5	3	16-QAM	1/0	15.07	H	6.6	0.47	21.20	34.77
701.5	5	QPSK	1/0	12.92	V	6.6	0.47	19.05	34.77
707.5	5	QPSK	1/74	13.87	V	6.6	0.47	20.00	34.77
713.5	5	QPSK	1/0	13.32	V	6.6	0.47	19.45	34.77
701.5	5	QPSK	1/0	14.27	H	6.6	0.47	20.40	34.77
707.5	5	QPSK	1/74	15.34	H	6.6	0.47	21.47	34.77
713.5	5	QPSK	1/0	14.84	H	6.6	0.47	20.97	34.77
701.5	5	16-QAM	1/0	14.08	V	6.6	0.47	20.21	34.77
707.5	5	16-QAM	1/74	13.31	V	6.6	0.47	19.44	34.77
713.5	5	16-QAM	1/0	13.35	V	6.6	0.47	19.48	34.77
701.5	5	16-QAM	1/0	15.41	H	6.6	0.47	21.54	34.77
707.5	5	16-QAM	1/74	14.89	H	6.6	0.47	21.02	34.77
713.5	5	16-QAM	1/0	14.76	H	6.6	0.47	20.89	34.77

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704.0	10	QPSK	1/99	14.26	V	6.6	0.47	20.39	34.77
707.5	10	QPSK	1/99	13.24	V	6.6	0.47	19.37	34.77
711.0	10	QPSK	1/0	12.67	V	6.6	0.47	18.80	34.77
704.0	10	QPSK	1/99	15.51	H	6.6	0.47	21.64	34.77
707.5	10	QPSK	1/99	14.57	H	6.6	0.47	20.70	34.77
711.0	10	QPSK	1/0	13.95	H	6.6	0.47	20.08	34.77
704.0	10	16-QAM	1/99	15.18	V	6.6	0.47	21.31	34.77
707.5	10	16-QAM	1/99	15.39	V	6.6	0.47	21.52	34.77
711.0	10	16-QAM	1/0	15.47	V	6.6	0.47	21.60	34.77
704.0	10	16-QAM	1/99	16.52	H	6.6	0.47	22.65	34.77
707.5	10	16-QAM	1/99	16.81	H	6.6	0.47	22.94	34.77
711.0	10	16-QAM	1/0	16.82	H	6.6	0.47	22.95	34.77

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ERP for LTE Band 26A

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
824.7	1.4	QPSK	1/0	13.65	V	6.6	0.48	19.74	38.45
836.5	1.4	QPSK	1/0	13.55	V	6.6	0.48	19.64	38.45
848.3	1.4	QPSK	1/0	13.32	V	6.6	0.48	19.41	38.45
824.7	1.4	QPSK	1/0	13.90	H	6.6	0.48	19.99	38.45
836.5	1.4	QPSK	1/0	13.81	H	6.6	0.48	19.90	38.45
848.3	1.4	QPSK	1/0	13.74	H	6.6	0.48	19.83	38.45
824.7	1.4	16-QAM	1/0	9.81	V	6.6	0.48	15.90	38.45
836.5	1.4	16-QAM	1/0	10.04	V	6.6	0.48	16.13	38.45
848.3	1.4	16-QAM	1/0	9.99	V	6.6	0.48	16.08	38.45
824.7	1.4	16-QAM	1/0	10.15	H	6.6	0.48	16.24	38.45
836.5	1.4	16-QAM	1/0	10.23	H	6.6	0.48	16.32	38.45
848.3	1.4	16-QAM	1/0	10.28	H	6.6	0.48	16.37	38.45
825.5	3	QPSK	1/0	9.92	V	6.6	0.48	16.01	38.45
836.5	3	QPSK	1/0	12.00	V	6.6	0.48	18.09	38.45
847.5	3	QPSK	1/0	12.10	V	6.6	0.48	18.19	38.45
825.5	3	QPSK	1/0	10.34	H	6.6	0.48	16.43	38.45
836.5	3	QPSK	1/0	12.52	H	6.6	0.48	18.61	38.45
847.5	3	QPSK	1/0	12.63	H	6.6	0.48	18.72	38.45
825.5	3	16-QAM	1/0	12.15	V	6.6	0.48	18.24	38.45
836.5	3	16-QAM	1/0	11.81	V	6.6	0.48	17.90	38.45
847.5	3	16-QAM	1/0	11.23	V	6.6	0.48	17.32	38.45
825.5	3	16-QAM	1/0	12.64	H	6.6	0.48	18.73	38.45
836.5	3	16-QAM	1/0	12.38	H	6.6	0.48	18.47	38.45
847.5	3	16-QAM	1/0	11.76	H	6.6	0.48	17.85	38.45
826.5	5	QPSK	1/0	11.49	V	6.6	0.48	17.58	38.45
836.5	5	QPSK	1/0	11.06	V	6.6	0.48	17.15	38.45
846.5	5	QPSK	1/0	11.93	V	6.6	0.48	18.02	38.45
826.5	5	QPSK	1/0	11.84	H	6.6	0.48	17.93	38.45
836.5	5	QPSK	1/0	11.43	H	6.6	0.48	17.52	38.45
846.5	5	QPSK	1/0	12.46	H	6.6	0.48	18.55	38.45
826.5	5	16-QAM	1/0	11.83	V	6.6	0.48	17.92	38.45
836.5	5	16-QAM	1/0	11.72	V	6.6	0.48	17.81	38.45
846.5	5	16-QAM	1/0	11.76	V	6.6	0.48	17.85	38.45

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826.5	5	16-QAM	1/0	12.46	H	6.6	0.48	18.55	38.45
836.5	5	16-QAM	1/0	12.17	H	6.6	0.48	18.26	38.45
846.5	5	16-QAM	1/0	12.15	H	6.6	0.48	18.24	38.45
829	10	QPSK	1/0	12.36	V	6.6	0.48	18.45	38.45
836.5	10	QPSK	1/0	11.41	V	6.6	0.48	17.50	38.45
844	10	QPSK	1/0	11.22	V	6.6	0.48	17.31	38.45
829	10	QPSK	1/0	12.88	H	6.6	0.48	18.97	38.45
836.5	10	QPSK	1/0	11.56	H	6.6	0.48	17.65	38.45
844	10	QPSK	1/0	11.60	H	6.6	0.48	17.69	38.45
829	10	16-QAM	1/0	13.13	V	6.6	0.48	19.22	38.45
836.5	10	16-QAM	1/0	13.09	V	6.6	0.48	19.18	38.45
844	10	16-QAM	1/0	12.78	V	6.6	0.48	18.87	38.45
829	10	16-QAM	1/0	13.90	H	6.6	0.48	19.99	38.45
836.5	10	16-QAM	1/0	13.63	H	6.6	0.48	19.72	38.45
844	10	16-QAM	1/0	13.15	H	6.6	0.48	19.24	38.45
831.5	15	QPSK	1/0	13.31	V	6.6	0.48	19.43	38.45
836.5	15	QPSK	1/0	10.76	V	6.6	0.48	16.88	38.45
841.5	15	QPSK	1/0	11.04	V	6.6	0.48	17.16	38.45
831.5	15	QPSK	1/0	13.22	H	6.6	0.48	19.34	38.45
836.5	15	QPSK	1/0	12.92	H	6.6	0.48	19.04	38.45
841.5	15	QPSK	1/0	12.76	H	6.6	0.48	18.88	38.45
831.5	15	16-QAM	1/0	11.97	V	6.6	0.48	18.09	38.45
836.5	15	16-QAM	1/0	12.01	V	6.6	0.48	18.13	38.45
841.5	15	16-QAM	1/0	13.13	V	6.6	0.48	19.25	38.45
831.5	15	16-QAM	1/0	13.43	H	6.6	0.48	19.55	38.45
836.5	15	16-QAM	1/0	13.19	H	6.6	0.48	19.31	38.45
841.5	15	16-QAM	1/0	12.34	H	6.6	0.48	18.46	38.45

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ERP for LTE Band 26B

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
814.7	1.4	QPSK	1/0	17.50	V	6.5	0.49	23.51	50
819.0	1.4	QPSK	1/0	17.65	V	6.5	0.49	23.66	50
823.3	1.4	QPSK	1/0	17.42	V	6.5	0.49	23.43	50
814.7	1.4	QPSK	1/0	17.75	H	6.5	0.49	23.76	50
819.0	1.4	QPSK	1/0	17.91	H	6.5	0.49	23.92	50
823.3	1.4	QPSK	1/0	17.84	H	6.5	0.49	23.85	50
814.7	1.4	16-QAM	1/0	17.69	V	6.5	0.49	23.70	50
819.0	1.4	16-QAM	1/0	17.90	V	6.5	0.49	23.91	50
823.3	1.4	16-QAM	1/0	17.71	V	6.5	0.49	23.72	50
814.7	1.4	16-QAM	1/0	18.03	H	6.5	0.49	24.04	50
819.0	1.4	16-QAM	1/0	18.09	H	6.5	0.49	24.10	50
823.3	1.4	16-QAM	1/0	18.00	H	6.5	0.49	24.01	50
815.5	3	QPSK	1/0	17.65	V	6.5	0.49	23.66	50
819.0	3	QPSK	1/0	17.42	V	6.5	0.49	23.43	50
822.5	3	QPSK	1/0	17.42	V	6.5	0.49	23.43	50
815.5	3	QPSK	1/0	18.07	H	6.5	0.49	24.08	50
819.0	3	QPSK	1/0	17.94	H	6.5	0.49	23.95	50
822.5	3	QPSK	1/0	17.95	H	6.5	0.49	23.96	50
815.5	3	16-QAM	1/0	17.48	V	6.5	0.49	23.49	50
819.0	3	16-QAM	1/0	17.32	V	6.5	0.49	23.33	50
822.5	3	16-QAM	1/0	16.49	V	6.5	0.49	22.50	50
815.5	3	16-QAM	1/0	17.97	H	6.5	0.49	23.98	50
819.0	3	16-QAM	1/0	17.89	H	6.5	0.49	23.90	50
822.5	3	16-QAM	1/0	17.02	H	6.5	0.49	23.03	50
816.5	5	QPSK	1/0	15.68	V	6.5	0.49	21.69	50
819.0	5	QPSK	1/0	17.14	V	6.5	0.49	23.15	50
821.5	5	QPSK	1/0	16.73	V	6.5	0.49	22.74	50
816.5	5	QPSK	1/0	16.03	H	6.5	0.49	22.04	50
819.0	5	QPSK	1/0	17.51	H	6.5	0.49	23.52	50
821.5	5	QPSK	1/0	17.26	H	6.5	0.49	23.27	50
816.5	5	16-QAM	1/0	16.63	V	6.5	0.49	22.64	50
819.0	5	16-QAM	1/0	16.61	V	6.5	0.49	22.62	50
821.5	5	16-QAM	1/0	16.67	V	6.5	0.49	22.68	50
816.5	5	16-QAM	1/0	17.26	H	6.5	0.49	23.27	50
819.0	5	16-QAM	1/0	17.06	H	6.5	0.49	23.07	50
821.5	5	16-QAM	1/0	17.06	H	6.5	0.49	23.07	50

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819.0	10	QPSK	1/0	16.55	V	6.5	0.49	22.56	50
819.0	10	QPSK	1/0	16.60	H	6.5	0.49	22.61	50
819.0	10	16-QAM	1/0	16.50	V	6.5	0.49	22.51	50
819.0	10	16-QAM	1/0	17.07	H	6.5	0.49	23.08	50
821.5	15	QPSK	1/0	15.25	V	6.5	0.49	21.26	50
821.5	15	QPSK	1/0	15.54	H	6.5	0.49	21.55	50
821.5	15	16-QAM	1/0	15.76	V	6.5	0.49	21.77	50
821.5	15	16-QAM	1/0	16.18	H	6.5	0.49	22.19	50

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EIRP for LTE Band 41

Frequency	Channel Bandwidth	Mode.	RB	Substituted level	Antenna Polarization	Antenna Gain correction	Cable Loss	Absolute Level	Limit (dBm)
2498.5	5	QPSK	1/0	13.92	V	8.23	1.12	21.03	33
2593.0	5	QPSK	1/0	13.65	V	8.23	1.12	20.76	33
2687.5	5	QPSK	1/24	13.52	V	8.23	1.12	20.63	33
2498.5	5	QPSK	1/0	14.15	H	8.23	1.12	21.26	33
2593.0	5	QPSK	1/0	13.9	H	8.23	1.12	21.01	33
2687.5	5	QPSK	1/24	13.75	H	8.23	1.12	20.86	33
2498.5	5	16-QAM	1/0	12.69	V	8.23	1.12	19.80	33
2593.0	5	16-QAM	1/0	12.81	V	8.23	1.12	19.92	33
2687.5	5	16-QAM	1/24	15.19	V	8.23	1.12	22.30	33
2498.5	5	16-QAM	1/0	12.83	H	8.23	1.12	19.94	33
2593.0	5	16-QAM	1/0	13.06	H	8.23	1.12	20.17	33
2687.5	5	16-QAM	1/24	15.32	H	8.23	1.12	22.43	33
2501.0	10	QPSK	1/0	15.31	V	8.23	1.12	22.42	33
2593.0	10	QPSK	1/49	15.21	V	8.23	1.12	22.32	33
2685.0	10	QPSK	1/0	13.74	V	8.23	1.12	20.85	33
2501.0	10	QPSK	1/0	15.68	H	8.23	1.12	22.79	33
2593.0	10	QPSK	1/49	15.73	H	8.23	1.12	22.84	33
2685.0	10	QPSK	1/0	14.25	H	8.23	1.12	21.36	33
2501.0	10	16-QAM	1/0	13.14	V	8.23	1.12	20.25	33
2593.0	10	16-QAM	1/49	12.79	V	8.23	1.12	19.90	33
2685.0	10	16-QAM	1/0	12.76	V	8.23	1.12	19.87	33
2501.0	10	16-QAM	1/0	13.37	H	8.23	1.12	20.48	33
2593.0	10	16-QAM	1/49	13.2	H	8.23	1.12	20.31	33
2685.0	10	16-QAM	1/0	12.99	H	8.23	1.12	20.10	33
2503.5	15	QPSK	1/0	11.44	V	8.23	1.12	18.55	33
2593.0	15	QPSK	1/74	12.5	V	8.23	1.12	19.61	33
2682.5	15	QPSK	1/0	12.52	V	8.23	1.12	19.63	33
2503.5	15	QPSK	1/0	11.8	H	8.23	1.12	18.91	33
2593.0	15	QPSK	1/74	12.72	H	8.23	1.12	19.83	33
2682.5	15	QPSK	1/0	12.67	H	8.23	1.12	19.78	33
2503.5	15	16-QAM	1/0	11.44	V	8.23	1.12	18.55	33
2593.0	15	16-QAM	1/74	11.36	V	8.23	1.12	18.47	33
2682.5	15	16-QAM	1/0	13.93	V	8.23	1.12	21.04	33
2503.5	15	16-QAM	1/0	11.59	H	8.23	1.12	18.70	33
2593.0	15	16-QAM	1/74	11.49	H	8.23	1.12	18.60	33
2682.5	15	16-QAM	1/0	14.29	H	8.23	1.12	21.40	33

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2506.0	20	QPSK	1/99	14.33	V	8.23	1.12	21.44	33
2593.0	20	QPSK	1/99	14.47	V	8.23	1.12	21.58	33
2680.0	20	QPSK	1/0	12.84	V	8.23	1.12	19.95	33
2506.0	20	QPSK	1/99	14.57	H	8.23	1.12	21.68	33
2593.0	20	QPSK	1/99	14.77	H	8.23	1.12	21.88	33
2680.0	20	QPSK	1/0	13.34	H	8.23	1.12	20.45	33
2506.0	20	16-QAM	1/99	13.62	V	8.23	1.12	20.73	33
2593.0	20	16-QAM	1/99	13.17	V	8.23	1.12	20.28	33
2680.0	20	16-QAM	1/0	13.18	V	8.23	1.12	20.29	33
2506.0	20	16-QAM	1/99	13.84	H	8.23	1.12	20.95	33
2593.0	20	16-QAM	1/99	13.42	H	8.23	1.12	20.53	33
2680.0	20	16-QAM	1/0	13.42	H	8.23	1.12	20.53	33

Note: Above is the worst mode data.

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8. Radiated Spurious Emission

8.1 Provisions Applicable

1. The general requirement for all radiated spurious emissions is: 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.
2. For special radiation spurious emission requirements, please refer to the specific divisions in Chapter 10.1 of this report.

8.2 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 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

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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.
    The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
    The spurious emissions is calculated by the following formula:

    Result(dBm) = Pg(dBm) +Factor(dB)

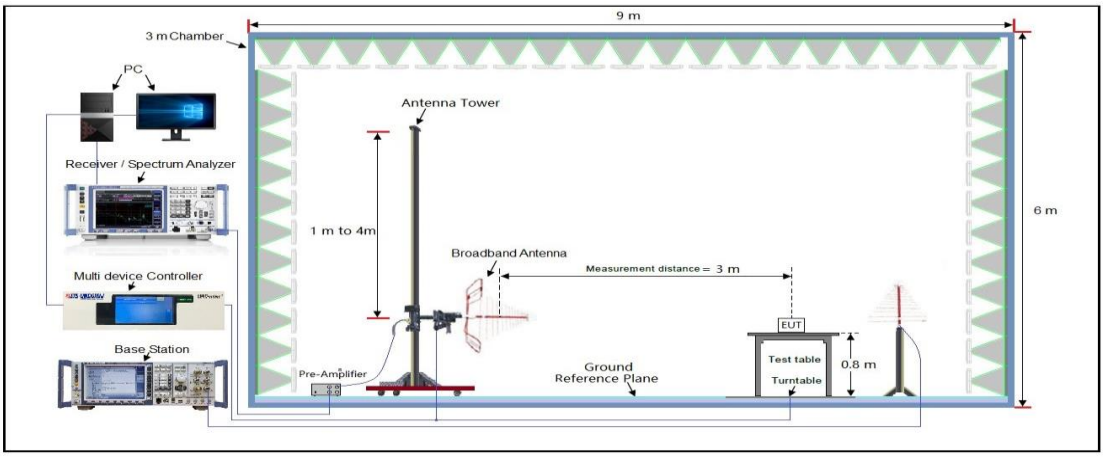
    Factor(dB) = Ant Gain(dB)-Cable Loss(dB) + Power Splitter(dB) (Above 1GHz)

    Factor(dB) = Ant Gain(dB)-Cable Loss(dB) (Below 1GHz)
12. Where: Pgis the generator output power into the substitution antenna.
13. If the fundalmatal frequency is below 1GHz, RF output power has been converted to EIRP.

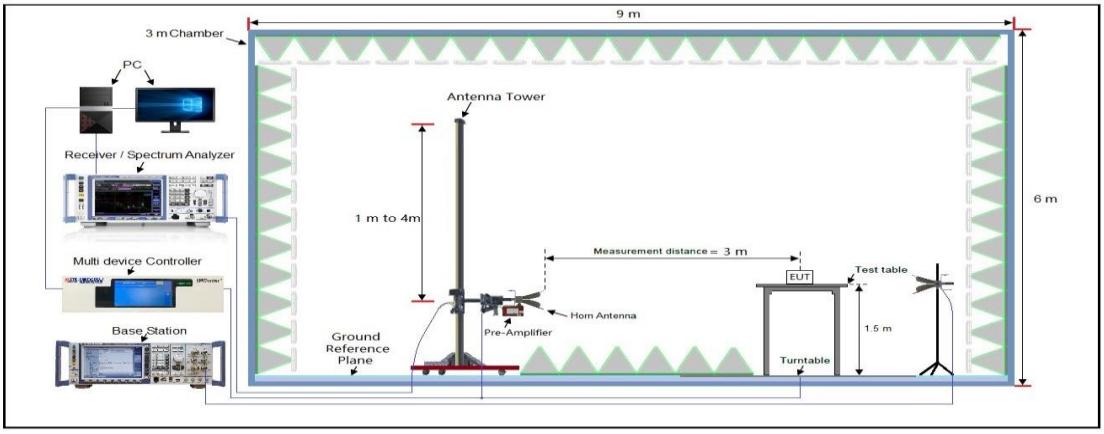
    EIRP(dBm) = ERP(dBm) + 2.15

8.3 Measurement Setup

Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



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8.4 Measurement Result

LTE Band 2 / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Low	5640.0	-43.91	5.66	-38.26	-13	-25.26	V
	3760.0	-33.30	2.09	-31.21	-13	-18.21	V
	712.64	-63.91	35.65	-28.26	-13	-15.26	V
	558.32	-62.87	33.44	-29.43	-13	-16.43	V
	5640.0	-46.34	5.66	-40.69	-13	-27.69	H
	3760.0	-37.23	2.09	-35.14	-13	-22.14	H
	832.25	-69.60	35.65	-33.95	-13	-20.95	H
	743.547	-70.60	33.44	-37.16	-13	-24.16	H

LTE Band 2 / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Middle	5580.0	-43.37	5.59	-37.78	-13	-24.78	V
	3720.0	-33.05	2.11	-30.94	-13	-17.94	V
	589.35	-65.15	35.02	-30.13	-13	-17.13	V
	369.11	-63.20	29.23	-33.97	-13	-20.97	V
	5580.0	-45.72	5.59	-40.13	-13	-27.13	H
	3720.0	-36.60	2.11	-34.49	-13	-21.49	H
	671.25	-68.99	35.02	-33.97	-13	-20.97	H
	450.19	-69.88	29.23	-40.65	-13	-27.65	H

LTE Band 2 / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
High	5700.0	-42.47	5.72	-36.74	-13	-23.74	V
	3800.0	-32.92	2.07	-30.85	-13	-17.85	V
	781.25	-65.30	37.40	-27.90	-13	-14.90	V
	496.31	-61.83	31.86	-29.96	-13	-16.96	V
	5700.0	-46.79	5.72	-41.06	-13	-28.06	H
	3800.0	-37.85	2.07	-35.79	-13	-22.79	H
	523.99	-69.48	37.40	-32.08	-13	-19.08	H
	485.74	-69.22	31.86	-37.36	-13	-24.36	H

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LTE Band 4 / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Low	5160.0	-42.54	4.81	-37.73	-13	-24.73	V
	3440.0	-33.17	2.16	-31.01	-13	-18.01	V
	696.52	-63.91	35.22	-28.69	-13	-15.69	V
	456.93	-62.02	32.32	-29.70	-13	-16.70	V
	5160.0	-45.82	4.81	-41.00	-13	-28.00	H
	3440.0	-37.96	2.16	-35.80	-13	-22.80	H
	789.22	-69.17	35.22	-33.95	-13	-20.95	H
	512.87	-69.49	32.32	-37.17	-13	-24.17	H

LTE Band 4 / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Middle	5197.5	-43.29	4.89	-38.41	-13	-25.41	V
	3465.0	-33.32	2.19	-31.12	-13	-18.12	V
	695.85	-63.98	35.22	-28.76	-13	-15.76	V
	493.11	-63.16	31.90	-31.26	-13	-18.26	V
	5197.5	-46.11	4.89	-41.23	-13	-28.23	H
	3465.0	-36.65	2.19	-34.45	-13	-21.45	H
	718.13	-68.39	35.22	-33.17	-13	-20.17	H
	601.01	-69.82	31.90	-37.92	-13	-24.92	H

LTE Band 4 / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
High	5235.0	-43.90	4.96	-38.94	-13	-25.94	V
	3490.0	-33.37	2.23	-31.14	-13	-18.14	V
	659.25	-65.06	35.12	-29.94	-13	-16.94	V
	432.01	-63.35	31.62	-31.74	-13	-18.74	V
	5235.0	-45.66	4.96	-40.69	-13	-27.69	H
	3490.0	-36.60	2.23	-34.38	-13	-21.38	H
	639.89	-69.05	35.12	-33.93	-13	-20.93	H
	541.15	-69.95	31.62	-38.33	-13	-25.33	H

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LTE Band 5 / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Low	2487.0	-43.19	2.00	-41.19	-13	-28.19	V
	1658.0	-34.52	-1.63	-36.15	-13	-23.15	V
	512.22	-65.07	32.11	-32.96	-13	-19.96	V
	365.52	-62.33	29.12	-33.21	-13	-20.21	V
	2487.0	-45.30	2.00	-43.30	-13	-30.30	H
	1658.0	-38.22	-1.63	-39.85	-13	-26.85	H
	521.15	-69.25	32.11	-37.13	-13	-24.13	H
	336.52	-68.92	29.12	-39.81	-13	-26.81	H

LTE Band 5 / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Middle	2509.5	-44.07	2.01	-42.06	-13	-29.06	V
	1673.0	-34.17	-1.51	-35.68	-13	-22.68	V
	725.82	-64.41	36.09	-28.32	-13	-15.32	V
	616.65	-61.93	35.41	-26.52	-13	-13.52	V
	2509.5	-45.09	2.01	-43.08	-13	-30.08	H
	1673.0	-36.39	-1.51	-37.89	-13	-24.89	H
	705.51	-69.85	36.09	-33.76	-13	-20.76	H
	558.91	-70.17	35.41	-34.76	-13	-21.76	H

LTE Band 5 / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
High	2532.0	-43.85	1.99	-41.86	-13	-28.86	V
	1688.0	-34.46	-1.38	-35.84	-13	-22.84	V
	648.32	-63.81	35.12	-28.70	-13	-15.70	V
	482.73	-62.17	32.02	-30.15	-13	-17.15	V
	2532.0	-45.87	1.99	-43.88	-13	-30.88	H
	1688.0	-37.05	-1.38	-38.44	-13	-25.44	H
	785.63	-69.19	35.12	-34.07	-13	-21.07	H
	615.73	-69.47	32.02	-37.45	-13	-24.45	H

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LTE Band 12 / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Low	2112.0	-43.81	1.37	-42.44	-13	-29.44	V
	1408.0	-33.11	-3.27	-36.38	-13	-23.38	V
	658.13	-65.00	35.12	-29.87	-13	-16.87	V
	516.96	-61.57	32.23	-29.34	-13	-16.34	V
	2112.0	-45.05	1.37	-43.68	-13	-30.68	H
	1408.0	-37.74	-3.27	-41.01	-13	-28.01	H
	714.43	-69.78	35.12	-34.66	-13	-21.66	H
	669.55	-70.25	32.23	-38.03	-13	-25.03	H

LTE Band 12 / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Middle	2122.5	-42.41	1.39	-41.02	-13	-28.02	V
	1415.0	-34.40	-3.24	-37.64	-13	-24.64	V
	651.53	-63.52	35.10	-28.42	-13	-15.42	V
	512.72	-62.17	32.13	-30.05	-13	-17.05	V
	2122.5	-45.07	1.39	-43.68	-13	-30.68	H
	1415.0	-38.11	-3.24	-41.35	-13	-28.35	H
	525.41	-68.49	35.10	-33.38	-13	-20.38	H
	498.71	-68.92	32.13	-36.80	-13	-23.80	H

LTE Band 12 / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
High	2133.0	-43.17	1.40	-41.77	-13	-28.77	V
	1422.0	-34.57	-3.22	-37.79	-13	-24.79	V
	653.33	-64.94	35.11	-29.84	-13	-16.84	V
	592.74	-63.06	35.19	-27.87	-13	-14.87	V
	2133.0	-46.78	1.40	-45.38	-13	-32.38	H
	1422.0	-38.08	-3.22	-41.30	-13	-28.30	H
	641.51	-68.55	35.11	-33.44	-13	-20.44	H
	558.33	-69.66	35.19	-34.46	-13	-21.46	H

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LTE Band 26A / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Low	2494.5	-43.96	2.01	-41.95	-13	-28.95	V
	1663.0	-33.43	-1.59	-35.02	-13	-22.02	V
	563.42	-63.57	33.70	-29.87	-13	-16.87	V
	315.04	-63.13	28.64	-34.49	-13	-21.49	V
	2494.5	-45.47	2.01	-43.46	-13	-30.46	H
	1663.0	-37.50	-1.59	-39.09	-13	-26.09	H
	463.81	-68.36	33.70	-34.66	-13	-21.66	H
	367.51	-69.68	28.64	-41.04	-13	-28.04	H

LTE Band 26A / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Middle	2509.5	-44.23	2.01	-42.22	-13	-29.22	V
	1673.0	-33.77	-1.51	-35.27	-13	-22.27	V
	654.53	-63.70	35.11	-28.59	-13	-15.59	V
	543.23	-62.99	32.86	-30.13	-13	-17.13	V
	2509.5	-45.05	2.01	-43.04	-13	-30.04	H
	1673.0	-36.42	-1.51	-37.93	-13	-24.93	H
	615.84	-68.76	35.11	-33.65	-13	-20.65	H
	363.15	-70.25	32.86	-37.39	-13	-24.39	H

LTE Band 26A / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
High	2524.5	-42.79	2.00	-40.79	-13	-27.79	V
	1683.0	-34.51	-1.43	-35.93	-13	-22.93	V
	526.82	-65.06	32.46	-32.60	-13	-19.60	V
	364.53	-62.08	29.08	-32.99	-13	-19.99	V
	2524.5	-46.21	2.00	-44.21	-13	-31.21	H
	1683.0	-37.67	-1.43	-39.09	-13	-26.09	H
	683.47	-68.33	32.46	-35.87	-13	-22.87	H
	475.97	-68.80	29.08	-39.72	-13	-26.72	H

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LTE Band 26B / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Low	2444.1	-42.51	1.93	-40.59	-13	-27.59	V
	1638.0	-33.30	-1.80	-35.10	-13	-22.10	V
	842.33	-65.22	38.29	-26.92	-13	-13.92	V
	596.52	-62.57	35.38	-27.18	-13	-14.18	V
	2444.1	-45.15	1.93	-43.23	-13	-30.23	H
	1638.0	-38.10	-1.80	-39.89	-13	-26.89	H
	774.52	-70.01	38.29	-31.72	-13	-18.72	H
	617.23	-68.72	35.38	-33.34	-13	-20.34	H

LTE Band 26B / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Middle	2457.0	-42.44	1.95	-40.49	-13	-27.49	V
	1638.0	-32.85	-1.80	-34.65	-13	-21.65	V
	745.51	-65.08	36.74	-28.34	-13	-15.34	V
	512.83	-62.20	32.13	-30.07	-13	-17.07	V
	2457.0	-46.17	1.95	-44.22	-13	-31.22	H
	1638.0	-38.00	-1.80	-39.80	-13	-26.80	H
	693.72	-68.44	36.74	-31.70	-13	-18.70	H
	497.23	-70.67	32.13	-38.55	-13	-25.55	H

LTE Band 26B / 1.4MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
High	2469.9	-43.46	1.97	-41.49	-13	-28.49	V
	1646.6	-33.73	-1.72	-35.45	-13	-22.45	V
	882.2	-63.53	37.82	-25.71	-13	-12.71	V
	694.7	-61.64	35.22	-26.42	-13	-13.42	V
	2469.9	-46.72	1.97	-44.75	-13	-31.75	H
	1646.6	-37.98	-1.72	-39.71	-13	-26.71	H
	745.1	-70.12	37.82	-32.30	-13	-19.30	H
	569.3	-69.69	35.22	-34.48	-13	-21.48	H

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LTE Band 41 / 5MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Low	7495.5	-47.87	7.23	-40.64	-25	-15.64	V
	4997.0	-50.86	4.49	-46.37	-25	-21.37	V
	612.13	-88.17	35.45	-52.73	-25	-27.73	V
	483.63	-87.94	32.01	-55.93	-25	-30.93	V
	7495.5	-48.73	7.23	-41.50	-25	-16.50	H
	4997.0	-52.56	4.49	-48.07	-25	-23.07	H
	742.83	-91.41	35.45	-55.96	-25	-30.96	H
	563.74	-92.40	32.01	-60.39	-25	-35.39	H

LTE Band 41 / 5MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
Middle	7779.0	-46.20	7.23	-38.97	-25	-13.97	V
	5186.0	-51.39	4.87	-46.53	-25	-21.53	V
	568.21	-91.15	33.95	-57.20	-25	-32.20	V
	341.53	-89.03	28.63	-60.40	-25	-35.40	V
	7779.0	-49.29	7.23	-42.06	-25	-17.06	H
	5186.0	-50.34	4.87	-45.48	-25	-20.48	H
	552.72	-92.11	33.95	-58.16	-25	-33.16	H
	421.53	-89.89	28.63	-61.26	-25	-36.26	H

LTE Band 41 / 5MHz / QPSK							
Channel	Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Polarity (H/V)
High	8062.5	-47.66	7.38	-40.29	-25	-15.29	V
	5375.0	-51.65	5.25	-46.40	-25	-21.40	V
	642.92	-88.37	35.17	-53.21	-25	-28.21	V
	471.63	-88.50	32.15	-56.35	-25	-31.35	V
	8062.5	-48.32	7.38	-40.94	-25	-15.94	H
	5375.0	-51.98	5.25	-46.73	-25	-21.73	H
	363.21	-92.40	35.17	-57.24	-25	-32.24	H
	274.61	-89.92	32.15	-57.77	-25	-32.77	H

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Note:

1. Margin(dB)=Emission Level(dBm) -Limit(dBm), Emission Level(dBm)= Reading(dBm)+Factor(dB)
2. Factor(dB) = Ant Gain -Cable Loss + Pre-amplifier
3. The radiated spurious emission has been tested with maximum bandwidth QPSK modulation, resource block size 1 and resource block offset 0.
4. The spurious emissions found in the frequency band 1559-1610MHz meet the stricter Wideband limits.
5. Below 30MHz, no spurious emission was found, and only the worst mode data above 30MHz is recorded in the report.

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Appendix I Photographs of Test Setup

Refer to the Report No.: AGC00408230802AP02A

Appendix II: Photographs of EUT

Refer to the Report No.: AGC00408230802AP04A

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

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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.

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