

# TEST REPORT

**Application No.:** GZCR2202000223AT  
**Applicant:** Binatone Electronics International Ltd.  
**Address of Applicant:** 25/F, Guangdong Investment Tower, 148 Connaught Road Central, Sheung Wan, Hong Kong.  
**Manufacturer:** Binatone Telecom Plc.  
**Address of Manufacturer:** 1 Apsley Way London NW2 7HF, United Kingdom  
**Factory:** Heyuan Yongyida Technology Co., Ltd  
**Address of Factory:** Xinyongyi Science and Technology Park, No. 9, Gaoxin 3rd Road, High-tech Zone, Heyuan City, Guangdong, China

**Equipment Under Test (EUT):**  
**EUT Name:** Kids Smart Phone  
**Model No.:** MIMO PHONE  
**Trade mark:**

**Standard(s) :** 47 CFR Part 2  
47 CFR Part 22 subpart H  
47 CFR Part 24 subpart E  
47 CFR Part 27 subpart C  
47 CFR Part 90 subpart S

**Date of Receipt:** 2022-02-14  
**Date of Test:** 2022-02-15 to 2022-03-24  
**Date of Issue:** 2022-03-31

<b>Test Result:</b>	<b>Pass</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian  
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-03-31		Original

Authorized for issue by			
			
		<hr/> <b>Curry Wu/Project Engineer</b>	
			
		<hr/> <b>Ricky Liu/Reviewer</b>	



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## 2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	§2.1046 §22.913 §24.232 §27.50(b) §27.50(c) §27.50(d) §27.50(h) §90.635	ERP≤ 7W(LTE Band 26b) EIRP≤ 2W(LTE Band 2) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12,17) EIRP≤ 1W(LTE Band 4,66) EIRP≤ 2W(LTE Band 7,41) ERP≤ 100W(LTE Band 26a)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(d)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §22.917 §24.238 §27.50(c) §27.50(g) §27.50(h) §27.50(m) §90.691	≤ -13dBm (LTE Band26b) ≤ -13dBm (LTE Band2) Refer to clause 6.4 for LTE Band13 ≤ -13dBm (LTE Band12,17) ≤ -13dBm (LTE Band4,66) Refer to clause 6.4 for LTE Band7,41 Refer to clause 6.4 for LTE Band26a	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917 §24.238 §27.50(c) §27.50(g) §27.50(h) §27.50(m) §90.691	≤ -13dBm (LTE Band26b) ≤ -13dBm (LTE Band2) Refer to clause 6.5 for LTE Band13 ≤ -13dBm (LTE Band12,17) ≤ -13dBm (LTE Band4,66) Refer to clause 6.5 for LTE Band7,41 Refer to clause 6.5 for LTE Band26a	PASS
Field strength of spurious radiation	§2.1051 §22.917 §24.238 §27.50(c) §27.50(g) §27.50(h) §27.50(m) §90.691	≤ -13dBm (LTE Band26b) ≤ -13dBm (LTE Band2) Refer to clause 6.6 for LTE Band13 ≤ -13dBm (LTE Band12,17) ≤ -13dBm (LTE Band4,66) Refer to clause 6.6 for LTE Band7,41 Refer to clause 6.6 for LTE Band26a	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54 §90.213	≤ ±2.5ppm.	PASS



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**Note:**

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC3.8V by li-ion battery(2500mAh) Recharged by 5V/1A from power adapter Or 5V/1A from wireless charger
Cable(s):	USB type C cable: 1m shielded cable without ferrite core
Sample Type:	Portable production
LTE Operation Frequency Band:	LTE FDD Band 2,4,7,12,13,17,26,41,66
Modulation Type:	QPSK, 16QAM
LTE Power Class:	Level 3
Antenna Type:	PIFA Antenna
Antenna Gain:	0.5dBi
Extreme temp. Tolerance:	-30°C to +50°C
Extreme vol. Limits:	3.5VDC to 4.35VDC (nominal: 3.8VDC)

### 4.2 Test Frequency

Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 2	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
	5	1852.5	1880	1907.5
	10	1855.0	1880	1905.0
	15	1857.5	1880	1902.5
	20	1860.0	1880	1900.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
	5	1712.5	1732.5	1752.5
	10	1715.0	1732.5	1750.0
	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
	5	2502.5	2535.0	2567.5



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LTE FDD Band 7	10	2505.0	2535.0	2565.0
	15	2507.5	2535.0	2562.5
	20	2510.0	2535.0	2560.0
<b>Test mode:</b>	<b>Nominal Bandwidth (MHz)</b>	<b>RF Channel</b>		
		<b>Low (L)</b>	<b>Middle (M)</b>	<b>High (H)</b>
		<b>MHz</b>	<b>MHz</b>	<b>MHz</b>
LTE FDD Band 12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704.0	707.5	711.0
<b>Test mode:</b>	<b>Nominal Bandwidth (MHz)</b>	<b>RF Channel</b>		
		<b>Low (L)</b>	<b>Middle (M)</b>	<b>High (H)</b>
		<b>MHz</b>	<b>MHz</b>	<b>MHz</b>
LTE FDD Band 13	5	779.5	782.0	784.5
	10	/	782.0	/
<b>Test mode:</b>	<b>Nominal Bandwidth (MHz)</b>	<b>RF Channel</b>		
		<b>Low (L)</b>	<b>Middle (M)</b>	<b>High (H)</b>
		<b>MHz</b>	<b>MHz</b>	<b>MHz</b>
LTE FDD Band 17	5	706.5	710.0	713.5
	10	709.0	710.0	711.0
<b>Test mode:</b>	<b>Nominal Bandwidth (MHz)</b>	<b>RF Channel</b>		
		<b>Low (L)</b>	<b>Middle (M)</b>	<b>High (H)</b>
		<b>MHz</b>	<b>MHz</b>	<b>MHz</b>
LTE FDD Band 26a	1.4	814.7	819.0	823.3
	3	815.5	819.0	822.5
	5	816.5	819.0	821.5
	10	/	819.0	/
<b>Test mode:</b>	<b>Nominal Bandwidth (MHz)</b>	<b>RF Channel</b>		
		<b>Low (L)</b>	<b>Middle (M)</b>	<b>High (H)</b>
		<b>MHz</b>	<b>MHz</b>	<b>MHz</b>
LTE FDD Band 26b	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
	15	831.5	836.5	841.5
<b>Test mode:</b>	<b>Nominal Bandwidth</b>	<b>RF Channel</b>		
		<b>Low (L)</b>	<b>Middle (M)</b>	<b>High (H)</b>



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	(MHz)	MHz	MHz	MHz
LTE FDD Band 26 cross rule	15	/	821.5	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 41	5	2547.5	2600.0	2652.5
	10	2550.5	2600.0	2650.0
	15	2552.5	2600.0	2647.5
	20	2555.0	2600.0	2645.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 66	1.4	1710.7	1745.0	1779.3
	3	1711.5	1745.0	1778.5
	5	1712.5	1745.0	1777.5
	10	1715.0	1745.0	1775.0
	15	1717.5	1745.0	1772.5
	20	1720.0	1745.0	1770.0



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**4.3 Test Environment**

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	1015Pa	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	3.5 V
	VN	3.8 V
	VH	4.35 V

NOTE: VL= lower extreme test voltage  
 VN= nominal voltage  
 VH= upper extreme test voltage  
 TL= lower extreme test temperature  
 TN= normal temperature  
 TH= upper extreme test temperature

**4.4 Description of Support Units**

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1357	/

**4.5 Measurement Uncertainty**

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25 x 10 <sup>-8</sup>
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	RF Radiated power	±5.06dB (3m); ±4.46dB (10m)
		±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz)
8	Radiated Spurious emission test	±5.06dB (3m); ±4.46dB (10m)
		±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz)
9	Temperature test	1°C
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%



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#### 4.6 Test Location

All tests were performed at:

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198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
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Fax: +86 20 82075059

No tests were sub-contracted.



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#### 4.7 Test Facility

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

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

● **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

#### 4.8 Deviation from Standards

None

#### 4.9 Abnormalities from Standard Conditions

None



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## 5 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Measurement Software	TST	V2.0	GZE100-78	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2022-10-31
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Wideband Radio Communication Tester(CMW500)	R&S	CMW500	EMC2215	2021-09-19	2022-09-18
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Temperature Chamber	GZ GongWen Co.Ltd.	GDJW-100	EMC0039	2021-07-04	2022-07-03

RE in Chamber(below 1GHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-21
				2022-02-21	2025-02-20
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25
Chamber cable	HangTianXing	N/A	EMC0542	2021-09-08	2022-09-07
Trilog Broadband Antenna(25MHz-1GHz)	SCHWARZBECK	VULB 9160	EMC2025	2020-09-24	2023-09-23
Signal Generator (10MHz-20GHz)	Rohde & Schwarz	SMR20	EMC0516	2022-01-10	2023-01-09
Wideband Radio Communication Tester(CMW500)	R&S	CMW500	EMC2215	2021-09-19	2022-09-18



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<b>RE in Chamber(above 1GHz)</b>					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2021-09-08	2022-09-07
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS- ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2022-01-07	2023-01-06
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-09-08	2022-09-07
Wideband Radio Communication Tester(CMW500)	R&S	CMW500	EMC2215	2021-09-19	2022-09-18
Substitution Antenna	SCHWARZBECK MESS- ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
Signal Generator (10MHz-20GHz)	Rohde & Schwarz	SMR20	EMC0516	2022-01-10	2023-01-09

<b>General used equipment</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-04
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-04



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## 6 Radio Spectrum Matter Test Results

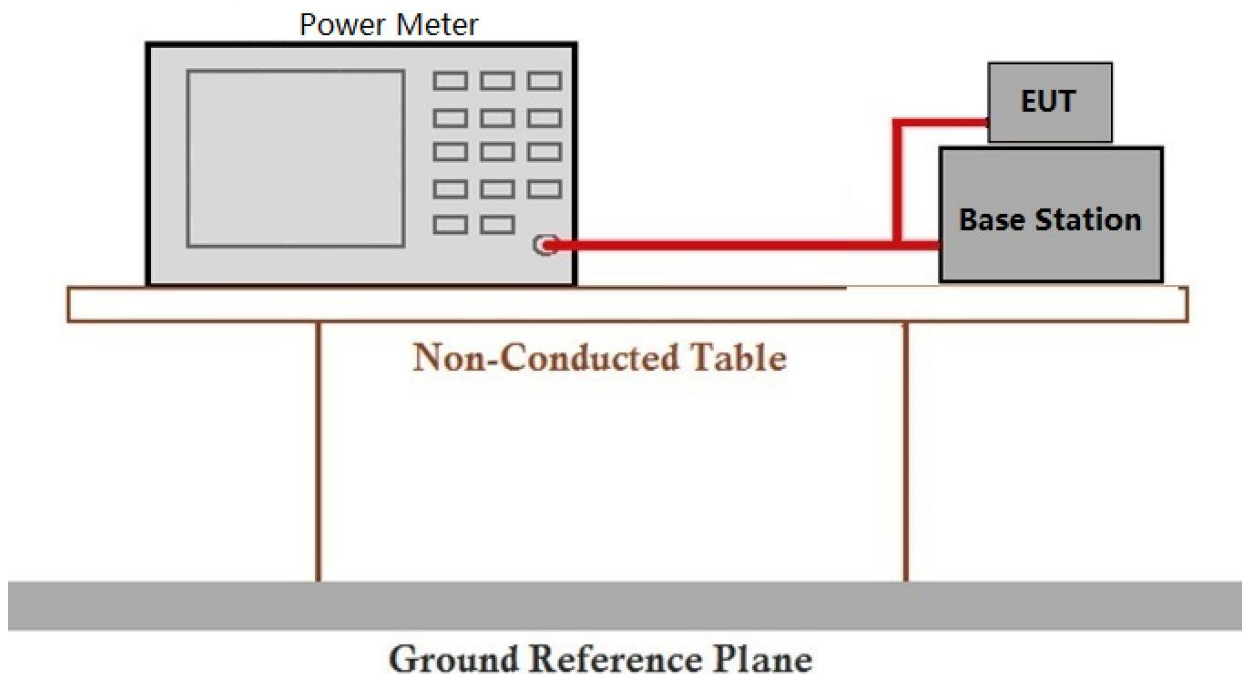
### 6.1 Effective (Isotropic) Radiated Output Power Data

Test Requirement: §2.1046, §22.913, §24.232, §27.50(b), §27.50(c), §27.50(d), §27.50(h), §90.635  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit:  
 ERP ≤ 7W (LTE Band 26b)  
 EIRP ≤ 2W (LTE Band 2)  
 ERP ≤ 3W (LTE Band 13)  
 ERP ≤ 3W (LTE Band 12, 17)  
 EIRP ≤ 1W (LTE Band 4, 66)  
 EIRP ≤ 2W (LTE Band 7, 41)  
 ERP ≤ 100W (LTE Band 26a)

#### 6.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode 21: Tx mode, Keep the EUT in transmitting mode.

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data

Please refer to Appendix for LTE test data.



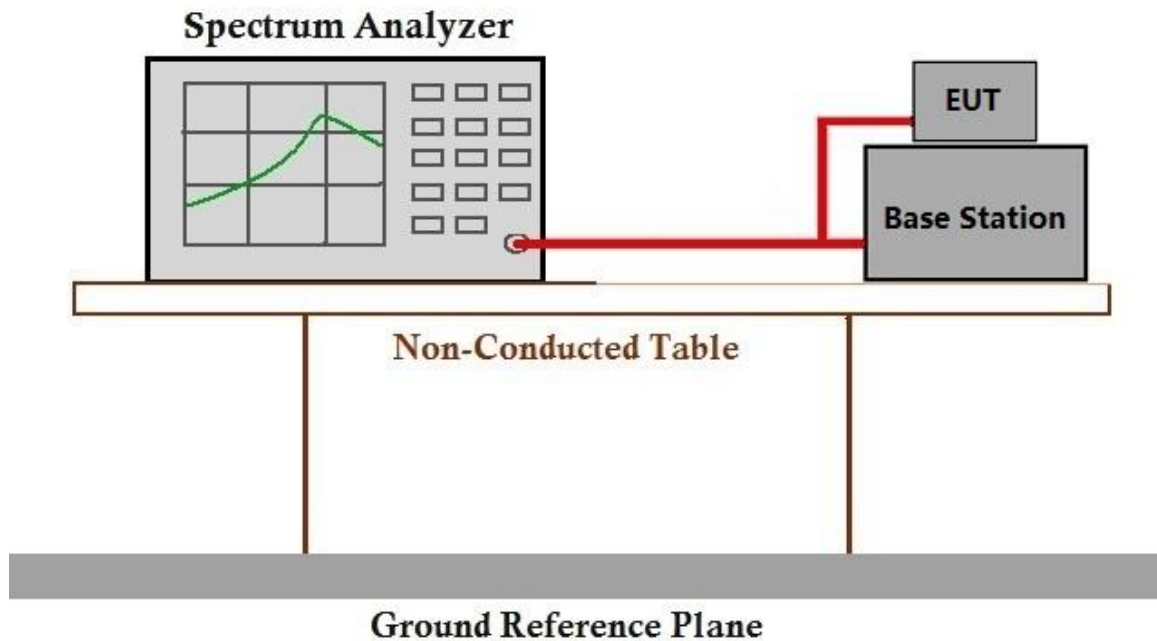
### 6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(d)  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ≤13dB

#### 6.2.1 E.U.T. Operation

Operating Environment:  
 Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode 21: Tx mode, Keep the EUT in transmitting mode.

#### 6.2.2 Test Setup Diagram



#### 6.2.3 Measurement Data

Please refer to Appendix for LTE test data.



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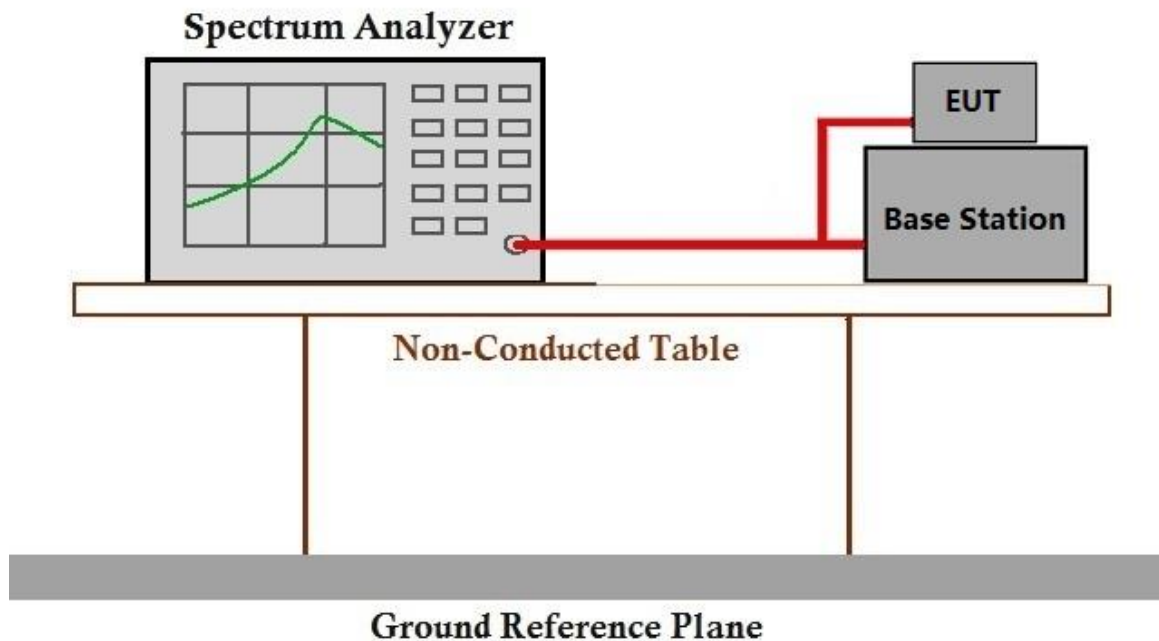
**6.3 Bandwidth**

Test Requirement: §2.1049(h)  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: OBW: No limit  
 EBW: No limit

**6.3.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode 21: Tx mode, Keep the EUT in transmitting mode.

**6.3.2 Test Setup Diagram**



**6.3.3 Measurement Data**

Please refer to Appendix for LTE test data.



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**6.4 Band Edge Compliance**

Test Requirement: §2.1051, §22.917§24.238,§27.50(c),§27.50(g),§27.50(h),§27.50(m),§90.691  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ≤ -13dBm (LTE Band26b)  
 ≤ -13dBm (LTE Band2)

For band 13:

- (1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

≤ -13dBm (LTE Band12,17)  
 ≤ -13dBm (LTE Band4,66)

For Band7,41:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

For Band26a:

For any frequency removed from the EA licensee’s frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

**6.4.1 E.U.T. Operation**

Operating Environment:

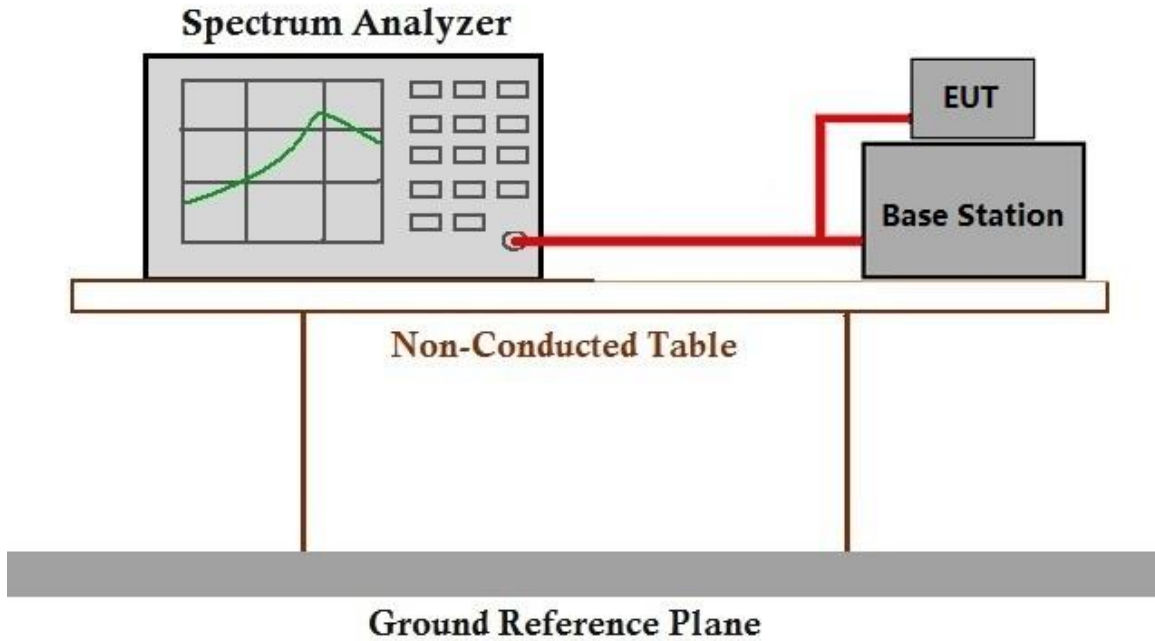
Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode 21: Tx mode, Keep the EUT in transmitting mode.



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### 6.4.2 Test Setup Diagram



### 6.4.3 Measurement Data

Please refer to Appendix for LTE test data.



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**6.5 Spurious emissions at antenna terminals**

Test Requirement: §2.1051, §22.917§24.238,§27.50(c),§27.50(g),§27.50(h),§27.50(m),§90.691  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ≤ -13dBm (LTE Band26b)  
 ≤ -13dBm (LTE Band2)

For band 13:

- (1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

≤ -13dBm (LTE Band12,17)  
 ≤ -13dBm (LTE Band4,66)

For Band7,41:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

For Band26a:

For any frequency removed from the EA licensee’s frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

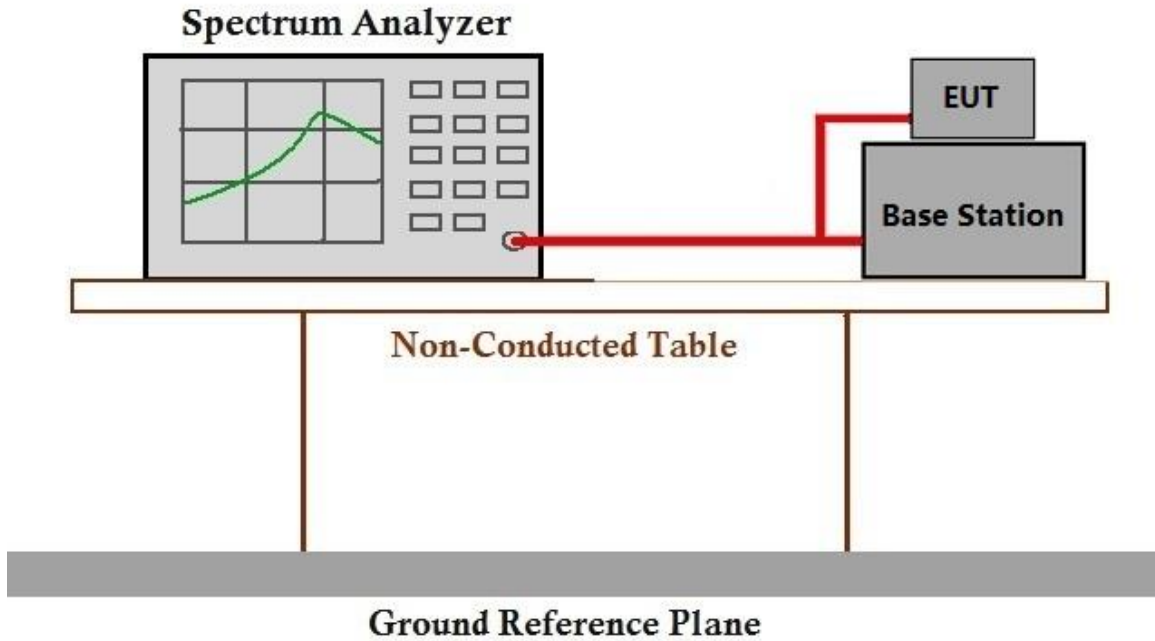
**6.5.1 E.U.T. Operation**

Operating Environment:

Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode 21: Tx mode, Keep the EUT in transmitting mode.



### 6.5.2 Test Setup Diagram



### 6.5.3 Measurement Data

Please refer to Appendix for LTE test data.



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**6.6 Field strength of spurious radiation**

Test Requirement: §2.1051, §22.917§24.238,§27.50(c),§27.50(g),§27.50(h),§27.50(m),§90.691  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ≤ -13dBm (LTE Band26b)  
 ≤ -13dBm (LTE Band2)

For band 13:

- (1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

≤ -13dBm (LTE Band12,17)  
 ≤ -13dBm (LTE Band4,66)

For Band7,41:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

For Band26a:

For any frequency removed from the EA licensee’s frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

**6.6.1 E.U.T. Operation**

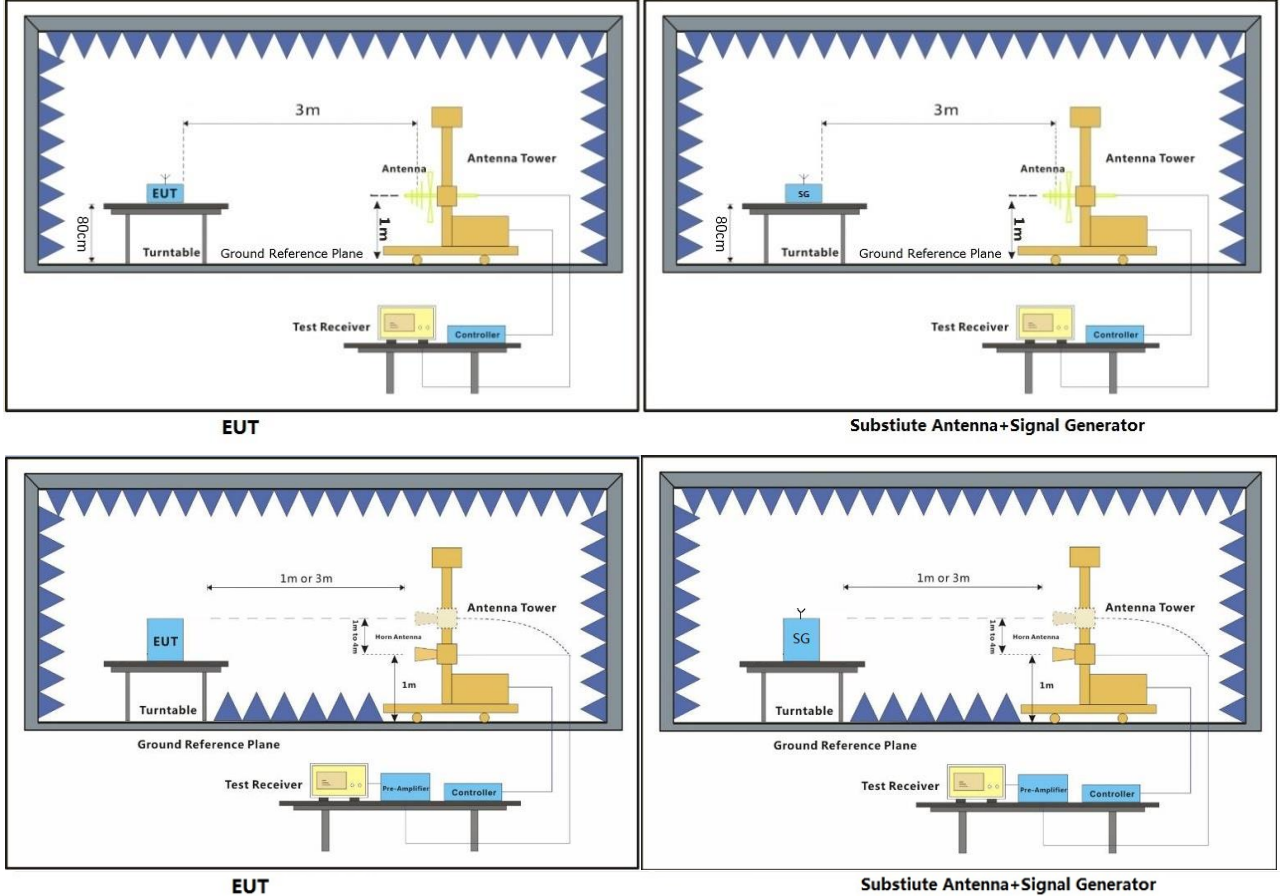
Operating Environment:  
 Temperature: 18.5 °C Humidity: 39.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode 21: Tx mode, Keep the EUT in transmitting mode.



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### 6.6.2 Test Setup Diagram



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**6.6.3 Measurement Procedure and Data**

**Test Procedure:**

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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FDD LTE Band2-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3702	-54.59	-13	-41.59	-64.27	2.92	12.6	Horizontal	Pass
5553	-51.84	-13	-38.84	-61.79	3.15	13.1	Horizontal	Pass
7404	-48.51	-13	-35.51	-56.81	3.4	11.7	Horizontal	Pass
3702	-53.74	-13	-40.74	-63.42	2.92	12.6	Vertical	Pass
5553	-51.08	-13	-38.08	-61.03	3.15	13.1	Vertical	Pass
7404	-48.78	-13	-35.78	-57.08	3.4	11.7	Vertical	Pass

FDD LTE Band2-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3742	-54.61	-13	-41.61	-64.29	2.92	12.6	Horizontal	Pass
5613	-51.45	-13	-38.45	-61.4	3.15	13.1	Horizontal	Pass
7484	-47.96	-13	-34.96	-56.26	3.4	11.7	Horizontal	Pass
3742	-55.15	-13	-42.15	-64.83	2.92	12.6	Vertical	Pass
5613	-51.39	-13	-38.39	-61.34	3.15	13.1	Vertical	Pass
7484	-47.78	-13	-34.78	-56.08	3.4	11.7	Vertical	Pass

FDD LTE Band2-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3782	-52.47	-13	-39.47	-62.15	2.92	12.6	Horizontal	Pass
5673	-52.78	-13	-39.78	-62.73	3.15	13.1	Horizontal	Pass
7564	-48.22	-13	-35.22	-55.77	3.85	11.4	Horizontal	Pass
3782	-53.63	-13	-40.63	-63.31	2.92	12.6	Vertical	Pass
5673	-52.74	-13	-39.74	-62.69	3.15	13.1	Vertical	Pass
7564	-47.98	-13	-34.98	-55.53	3.85	11.4	Vertical	Pass



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FDD LTE Band4-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422	-54.75	-13	-41.75	-63.26	2.99	11.5	Horizontal	Pass
5133	-51.21	-13	-38.21	-60.91	3	12.7	Horizontal	Pass
6844	-50.24	-13	-37.24	-59.66	3.08	12.5	Horizontal	Pass
3422	-54.35	-13	-41.35	-62.86	2.99	11.5	Vertical	Pass
5133	-51.1	-13	-38.1	-60.8	3	12.7	Vertical	Pass
6844	-51.12	-13	-38.12	-60.54	3.08	12.5	Vertical	Pass

FDD LTE Band4-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447	-54.59	-13	-41.59	-63.1	2.99	11.5	Horizontal	Pass
5170.5	-51.44	-13	-38.44	-61.14	3	12.7	Horizontal	Pass
6894	-50.78	-13	-37.78	-60.2	3.08	12.5	Horizontal	Pass
3447	-55.21	-13	-42.21	-63.72	2.99	11.5	Vertical	Pass
5170.5	-52.28	-13	-39.28	-61.98	3	12.7	Vertical	Pass
6894	-51.06	-13	-38.06	-60.48	3.08	12.5	Vertical	Pass

FDD LTE Band4-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472	-55.05	-13	-42.05	-63.56	2.99	11.5	Horizontal	Pass
5208	-51.04	-13	-38.04	-60.74	3	12.7	Horizontal	Pass
6944	-50.05	-13	-37.05	-59.47	3.08	12.5	Horizontal	Pass
3472	-54.46	-13	-41.46	-62.97	2.99	11.5	Vertical	Pass
5208	-51.73	-13	-38.73	-61.43	3	12.7	Vertical	Pass
6944	-50.21	-13	-37.21	-59.63	3.08	12.5	Vertical	Pass



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FDD LTE Band7-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5002	-50.76	-25	-25.76	-60.46	3	12.7	Horizontal	Pass
7503	-48.26	-25	-23.26	-55.81	3.85	11.4	Horizontal	Pass
10004	-44.04	-25	-19.04	-52.45	3.69	12.1	Horizontal	Pass
5002	-51.69	-25	-26.69	-61.39	3	12.7	Vertical	Pass
7503	-48	-25	-23	-55.55	3.85	11.4	Vertical	Pass
10004	-45.29	-25	-20.29	-53.7	3.69	12.1	Vertical	Pass

FDD LTE Band7-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5052	-50.04	-25	-25.04	-59.74	3	12.7	Horizontal	Pass
7578	-47.92	-25	-22.92	-55.47	3.85	11.4	Horizontal	Pass
10104	-41.5	-25	-16.5	-49.91	3.69	12.1	Horizontal	Pass
5052	-51.26	-25	-26.26	-60.96	3	12.7	Vertical	Pass
7578	-48.93	-25	-23.93	-56.48	3.85	11.4	Vertical	Pass
10104	-45.4	-25	-20.4	-53.81	3.69	12.1	Vertical	Pass

FDD LTE Band7-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5102	-49.57	-25	-24.57	-59.27	3	12.7	Horizontal	Pass
7653	-48.78	-25	-23.78	-56.33	3.85	11.4	Horizontal	Pass
10204	-44.36	-25	-19.36	-52.77	3.69	12.1	Horizontal	Pass
5102	-50.73	-25	-25.73	-60.43	3	12.7	Vertical	Pass
7653	-48.72	-25	-23.72	-56.27	3.85	11.4	Vertical	Pass
10204	-44.96	-25	-19.96	-53.37	3.69	12.1	Vertical	Pass



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FDD LTE Band12-Low channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1399	-62.15	-13	-49.15	-63.43	2.57	6	Horizontal	Pass
2098.5	-60.89	-13	-47.89	-65.74	3.4	10.4	Horizontal	Pass
2798	-57.33	-13	-44.33	-62.57	3.21	10.6	Horizontal	Pass
1399	-61.42	-13	-48.42	-62.7	2.57	6	Vertical	Pass
2098.5	-61.19	-13	-48.19	-66.04	3.4	10.4	Vertical	Pass
2798	-57.5	-13	-44.5	-62.74	3.21	10.6	Vertical	Pass

FDD LTE Band12-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406	-62.44	-13	-49.44	-63.72	2.57	6	Horizontal	Pass
2109	-60.52	-13	-47.52	-65.37	3.4	10.4	Horizontal	Pass
2812	-58.02	-13	-45.02	-63.26	3.21	10.6	Horizontal	Pass
1406	-62.58	-13	-49.58	-63.86	2.57	6	Vertical	Pass
2109	-61.16	-13	-48.16	-66.01	3.4	10.4	Vertical	Pass
2812	-57.63	-13	-44.63	-62.87	3.21	10.6	Vertical	Pass

FDD LTE Band12-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413	-61.83	-13	-48.83	-63.11	2.57	6	Horizontal	Pass
2119.5	-60.95	-13	-47.95	-65.8	3.4	10.4	Horizontal	Pass
2826	-57.15	-13	-44.15	-62.39	3.21	10.6	Horizontal	Pass
1413	-62.8	-13	-49.8	-64.08	2.57	6	Vertical	Pass
2119.5	-60.98	-13	-47.98	-65.83	3.4	10.4	Vertical	Pass
2826	-57.96	-13	-44.96	-63.2	3.21	10.6	Vertical	Pass



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FDD LTE Band13-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1555	-58.34	-13	-45.34	-61.36	3.33	8.5	Horizontal	Pass
2332.5	-55.85	-13	-42.85	-60.7	3.4	10.4	Horizontal	Pass
3110	-51.97	-13	-38.97	-58.33	2.99	11.5	Horizontal	Pass
1555	-57.91	-13	-44.91	-60.93	3.33	8.5	Vertical	Pass
2332.5	-53.97	-13	-40.97	-58.82	3.4	10.4	Vertical	Pass
3110	-51.02	-13	-38.02	-57.38	2.99	11.5	Vertical	Pass



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FDD LTE Band17-Low channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1409	-62.75	-13	-49.75	-64.03	2.57	6	Horizontal	Pass
2113.5	-60.29	-13	-47.29	-65.14	3.4	10.4	Horizontal	Pass
2818	-58.03	-13	-45.03	-63.27	3.21	10.6	Horizontal	Pass
1409	-62.87	-13	-49.87	-64.15	2.57	6	Vertical	Pass
2113.5	-61.29	-13	-48.29	-66.14	3.4	10.4	Vertical	Pass
2818	-57.67	-13	-44.67	-62.91	3.21	10.6	Vertical	Pass

FDD LTE Band17-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1411	-63.21	-13	-50.21	-64.49	2.57	6	Horizontal	Pass
2116.5	-61.09	-13	-48.09	-65.94	3.4	10.4	Horizontal	Pass
2822	-58.14	-13	-45.14	-63.38	3.21	10.6	Horizontal	Pass
1411	-62.7	-13	-49.7	-63.98	2.57	6	Vertical	Pass
2116.5	-61.71	-13	-48.71	-66.56	3.4	10.4	Vertical	Pass
2822	-58.37	-13	-45.37	-63.61	3.21	10.6	Vertical	Pass

FDD LTE Band17-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413	-62.31	-13	-49.31	-63.59	2.57	6	Horizontal	Pass
2119.5	-61.14	-13	-48.14	-65.99	3.4	10.4	Horizontal	Pass
2826	-57.38	-13	-44.38	-62.62	3.21	10.6	Horizontal	Pass
1413	-61.98	-13	-48.98	-63.26	2.57	6	Vertical	Pass
2119.5	-61.01	-13	-48.01	-65.86	3.4	10.4	Vertical	Pass
2826	-57.69	-13	-44.69	-62.93	3.21	10.6	Vertical	Pass



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FDD LTE Band26-Low channel, Modulation: QPSK, Bandwidth: 15MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1649.5	-49.53	-13	-36.53	-52.55	3.33	8.5	Horizontal	Pass
2474.25	-49.16	-13	-36.16	-54.01	3.4	10.4	Horizontal	Pass
3299	-55.3	-13	-42.3	-61.66	2.99	11.5	Horizontal	Pass
1649.5	-53	-13	-40	-56.02	3.33	8.5	Vertical	Pass
2474.25	-52.14	-13	-39.14	-56.99	3.4	10.4	Vertical	Pass
3299	-55.8	-13	-42.8	-62.16	2.99	11.5	Vertical	Pass

FDD LTE Band26-Middle channel, Modulation: QPSK, Bandwidth: 15MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1659.5	-48.75	-13	-35.75	-51.77	3.33	8.5	Horizontal	Pass
2489.25	-57.8	-13	-44.8	-62.65	3.4	10.4	Horizontal	Pass
3319	-54.83	-13	-41.83	-61.19	2.99	11.5	Horizontal	Pass
1659.5	-56.12	-13	-43.12	-59.14	3.33	8.5	Vertical	Pass
2489.25	-55.53	-13	-42.53	-60.38	3.4	10.4	Vertical	Pass
3319	-54.56	-13	-41.56	-60.92	2.99	11.5	Vertical	Pass

FDD LTE Band26-High channel, Modulation: QPSK, Bandwidth: 15MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1669.5	-48.4	-13	-35.4	-51.42	3.33	8.5	Horizontal	Pass
2504.25	-58.37	-13	-45.37	-63.61	3.21	10.6	Horizontal	Pass
3339	-53.93	-13	-40.93	-60.29	2.99	11.5	Horizontal	Pass
1669.5	-55.27	-13	-42.27	-58.29	3.33	8.5	Vertical	Pass
2504.25	-58.82	-13	-45.82	-64.06	3.21	10.6	Vertical	Pass
3339	-55.01	-13	-42.01	-61.37	2.99	11.5	Vertical	Pass



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FDD LTE Band41-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5092	-51.33	-25	-26.33	-61.03	3	12.7	Horizontal	Pass
7638	-48.39	-25	-23.39	-55.94	3.85	11.4	Horizontal	Pass
10184	-45.46	-25	-20.46	-53.87	3.69	12.1	Horizontal	Pass
5092	-52.2	-25	-27.2	-61.9	3	12.7	Vertical	Pass
7638	-48.2	-25	-23.2	-55.75	3.85	11.4	Vertical	Pass
10184	-45.75	-25	-20.75	-54.16	3.69	12.1	Vertical	Pass

FDD LTE Band41-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5182	-51.46	-25	-26.46	-61.16	3	12.7	Horizontal	Pass
7773	-49.57	-25	-24.57	-57.12	3.85	11.4	Horizontal	Pass
10364	-46.59	-25	-21.59	-55	3.69	12.1	Horizontal	Pass
5182	-50.84	-25	-25.84	-60.54	3	12.7	Vertical	Pass
7773	-49.29	-25	-24.29	-56.84	3.85	11.4	Vertical	Pass
10364	-45.95	-25	-20.95	-54.36	3.69	12.1	Vertical	Pass

FDD LTE Band41-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5272	-51.04	-25	-26.04	-60.74	3	12.7	Horizontal	Pass
7908	-47	-25	-22	-54.55	3.85	11.4	Horizontal	Pass
10544	-45.19	-25	-20.19	-53.22	3.77	11.8	Horizontal	Pass
5272	-51.04	-25	-26.04	-60.74	3	12.7	Vertical	Pass
7908	-46.79	-25	-21.79	-54.34	3.85	11.4	Vertical	Pass
10544	-45.14	-25	-20.14	-53.17	3.77	11.8	Vertical	Pass



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FDD LTE Band66-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422	-54.33	-13	-41.33	-62.84	2.99	11.5	Horizontal	Pass
5133	-51.69	-13	-38.69	-61.39	3	12.7	Horizontal	Pass
6844	-50.07	-13	-37.07	-59.49	3.08	12.5	Horizontal	Pass
3422	-53.96	-13	-40.96	-62.47	2.99	11.5	Vertical	Pass
5133	-51.29	-13	-38.29	-60.99	3	12.7	Vertical	Pass
6844	-50.32	-13	-37.32	-59.74	3.08	12.5	Vertical	Pass

FDD LTE Band66-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447	-54.58	-13	-41.58	-63.09	2.99	11.5	Horizontal	Pass
5170.5	-52.2	-13	-39.2	-61.9	3	12.7	Horizontal	Pass
6894	-51.09	-13	-38.09	-60.51	3.08	12.5	Horizontal	Pass
3447	-55.99	-13	-42.99	-64.5	2.99	11.5	Vertical	Pass
5170.5	-51.9	-13	-38.9	-61.6	3	12.7	Vertical	Pass
6894	-50.31	-13	-37.31	-59.73	3.08	12.5	Vertical	Pass

FDD LTE Band66-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472	-54.94	-13	-41.94	-63.45	2.99	11.5	Horizontal	Pass
5208	-51.51	-13	-38.51	-61.21	3	12.7	Horizontal	Pass
6944	-50.33	-13	-37.33	-59.75	3.08	12.5	Horizontal	Pass
3472	-55.36	-13	-42.36	-63.87	2.99	11.5	Vertical	Pass
5208	-50.77	-13	-37.77	-60.47	3	12.7	Vertical	Pass
6944	-50.31	-13	-37.31	-59.73	3.08	12.5	Vertical	Pass

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.



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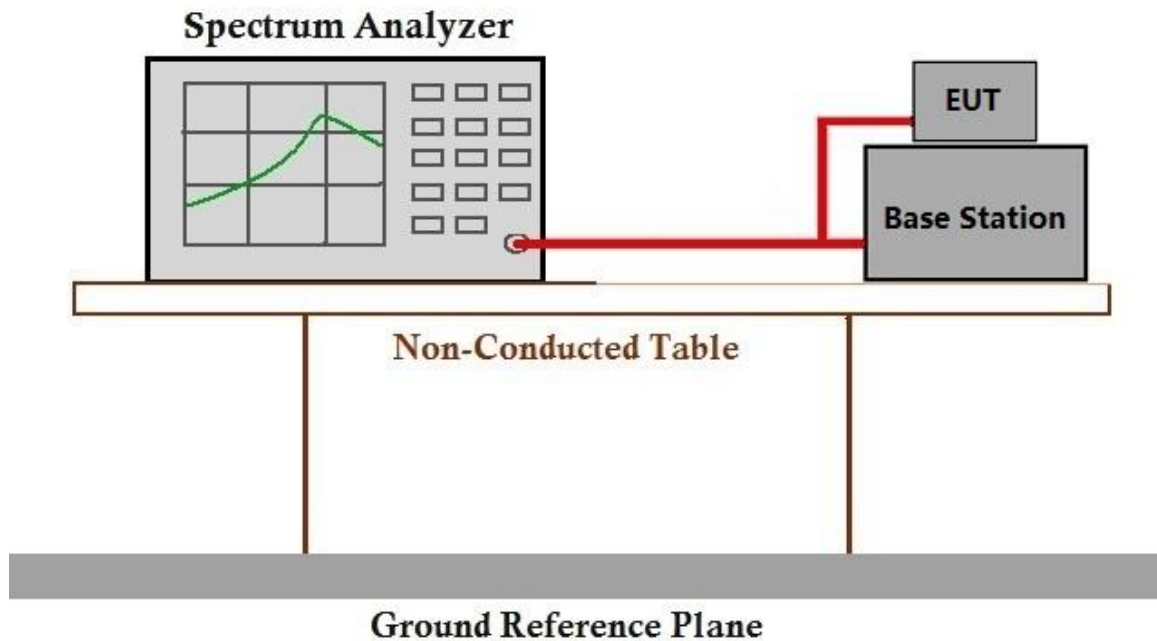
### 6.7 Frequency stability

Test Requirement: §2.1055, §22.355§24.235, §27.54, §90.213  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ≤ ±2.5ppm.

#### 6.7.1 E.U.T. Operation

Operating Environment:  
 Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode 21: Tx mode, Keep the EUT in transmitting mode.

#### 6.7.2 Test Setup Diagram



#### 6.7.3 Measurement Data

Please refer to Appendix for LTE test data.



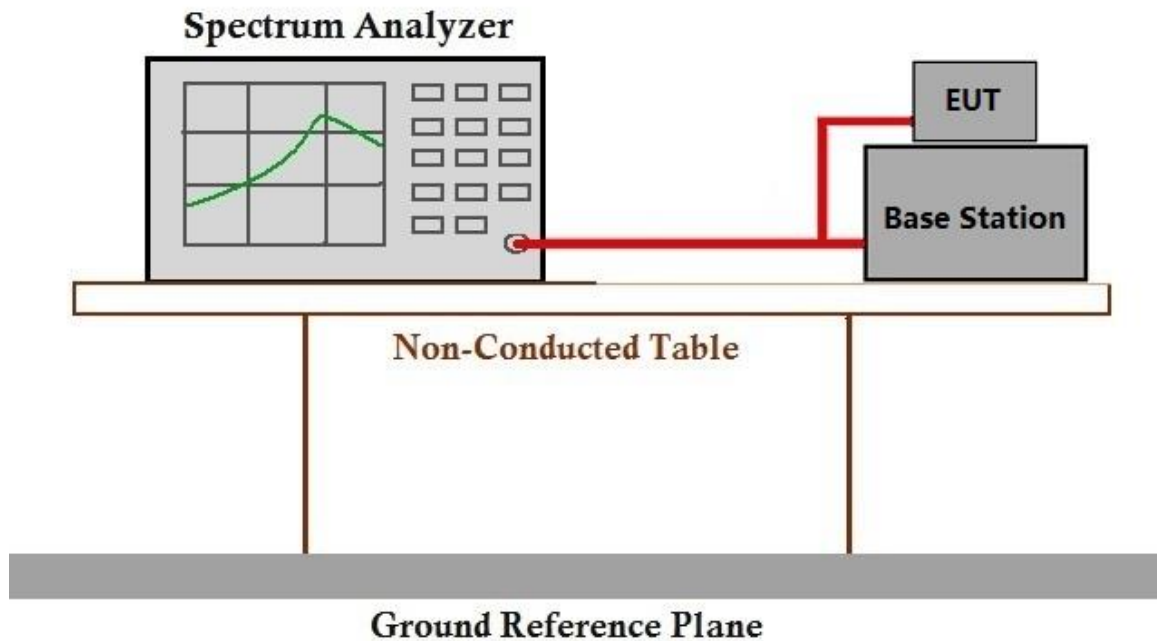
### 6.8 Modulation Characteristics

Test Requirement: §2.1047  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: Digital modulation

#### 6.8.1 E.U.T. Operation

Operating Environment:  
 Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode 21: Tx mode, Keep the EUT in transmitting mode.

#### 6.8.2 Test Setup Diagram



#### 6.8.3 Measurement Data

Pass, it's a digital modulation device.



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## 7 Photographs

### 7.1 Test Setup Photos

Refer to Appendix - MIMO PHONE 2G3G4G Test Setup Photo for GZCR2202000223AT.

### 7.2 EUT Constructional Details (EUT Photos)

Refer to Appendix - MIMO PHONE External and Internal Photos for GZCR2202000223AT.

- End of the Report -



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