

TEST REPORT

Application No.: FYCR2204000134AT
Applicant: Hytera Communications Corporation Limited
Address of Applicant: Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, P.R.C., P 518057
Manufacturer: Hytera Communications Corporation Limited
Address of Manufacturer: Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, P.R.C., P 518057
Factory: Sunrise Simcom (Tong cheng) Limited
Address of Factory: No.188-1, Nanshan Road, Tongcheng Economic Development Zone, Anqing, Anhui
Equipment Under Test (EUT):
EUT Name: 5G XSecure Rugged Device
Model No.: PNC560, PNC560 SCAN ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Hytera
FCC ID: YAMPNC560
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
 47 CFR Part 96 subpart E
Date of Receipt: 2022-04-29
Date of Test: 2022-05-16 to 2022-06-21
Date of Issue: 2022-07-02

Test Result:	Pass
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* In the configuration tested, the EUT complied with the standards specified above.



Winkey Wang
EMC Technical Manager



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Report No.: FYCR220400013409

Page: 2 of 40

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-07-02		Original

Authorized for issue by:			
		<i>Tree Zhan</i>	

		Tree Zhan/Project Engineer	
		<i>Winkey Wang</i>	

		Winkey Wang/Reviewer	



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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	§2.1046	ERP≤ 7W(LTE Band 5, 26b) EIRP≤ 2W(LTE Band 2) EIRP≤ 250mW/5MHz(LTE Band 40) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12,17) EIRP≤ 1W(LTE Band 4) EIRP≤ 2W(LTE Band 7,38,41) EIRP≤ 1W/10MHz(LTE Band 42) ERP≤ 100W(LTE Band 26a) EIRP≤ 23dBm/10MHz(LTE Band 48)	PASS
	§22.913		
	§24.232		
	§27.50(a)		
	§27.50(b)		
	§27.50(c)		
	§27.50(d)		
	§27.50(h)		
	§27.50(k)		
Peak-Average Ratio	§22.913	≤13dB	PASS
	§24.232		
	§27.50(a)		
	§27.50(d)		
	§96.41(g)		
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051	≤ -13dBm (LTE Band5, 26b) ≤ -13dBm (LTE Band2) Refer to clause 6.4 for LTE Band13 ≤ -13dBm (LTE Band12,17) ≤ -13dBm (LTE Band4) Refer to clause 6.4 for LTE Band7,38,41 Refer to clause 6.4 for LTE Band40 ≤ -13dBm LTE Band42 Refer to clause 6.4 for LTE Band48 Refer to clause 6.4 for LTE Band26a	PASS
	§22.917		
	§24.238		
	§27.50(c)		
	§27.50(g)		
	§27.50(h)		
	§27.50(m)		
	§27.53(a)		
	§27.53(n)		
Spurious emissions at antenna terminals	§2.1051	≤ -13dBm (LTE Band5, 26b) ≤ -13dBm (LTE Band2) Refer to clause 6.5 for LTE Band13 ≤ -13dBm (LTE Band12,17) ≤ -13dBm (LTE Band4) Refer to clause 6.5 for LTE Band7,38,41 Refer to clause 6.5 for LTE Band40 ≤ -13dBm LTE Band42 Refer to clause 6.5 for LTE Band48 Refer to clause 6.5 for LTE Band26a	PASS
	§22.917		
	§24.238		
	§27.50(c)		
	§27.50(g)		
	§27.50(h)		
	§27.50(m)		
	§27.53(a)		
	§27.53(n)		



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Field strength of spurious radiation	§2.1051 §22.917 §24.238 §27.50(c) §27.50(g) §27.50(h) §27.50(m) §27.53(a) §27.53(n) §96.41(e) §90.691	≤ -13dBm LTE Band5, 26b ≤ -13dBm LTE Band2 Refer to clause 6.6 for LTE Band13 ≤ -13dBm LTE Band12,17 ≤ -13dBm LTE Band4 Refer to clause 6.6 for LTE Band7,38,41 Refer to clause 6.6 for LTE Band40 ≤ -13dBm LTE Band42 Refer to clause 6.6 for LTE Band48 Refer to clause 6.6 for LTE Band26a	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54 §90.213	≤ ±2.5ppm.	PASS

Declaration of EUT Family Grouping:

Model No.: PNC560, PNC560 SCAN

Only the model PNC560 SCAN was fully tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on SCAN camera for PNC560 SCAN and emergency call button for PNC560.



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3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	5
4 GENERAL INFORMATION	7
4.1 DETAILS OF E.U.T.	7
4.2 TEST FREQUENCY	7
4.3 TEST ENVIRONMENT	11
4.4 DESCRIPTION OF SUPPORT UNITS	11
4.5 MEASUREMENT UNCERTAINTY	11
4.6 TEST LOCATION.....	12
4.7 TEST FACILITY.....	12
4.8 DEVIATION FROM STANDARDS.....	12
4.9 ABNORMALITIES FROM STANDARD CONDITIONS	12
5 EQUIPMENT LIST	13
6 RADIO SPECTRUM MATTER TEST RESULTS	15
6.1 EFFECTIVE (ISOTROPIC) RADIATED OUTPUT POWER DATA	15
6.1.1 <i>E.U.T. Operation</i>	15
6.1.2 <i>Test Setup Diagram</i>	15
6.1.3 <i>Measurement Data</i>	15
6.2 PEAK-AVERAGE RATIO	16
6.2.1 <i>E.U.T. Operation</i>	16
6.2.2 <i>Test Setup Diagram</i>	16
6.2.3 <i>Measurement Data</i>	16
6.3 BANDWIDTH	17
6.3.1 <i>E.U.T. Operation</i>	17
6.3.2 <i>Test Setup Diagram</i>	17
6.3.3 <i>Measurement Data</i>	17
6.4 BAND EDGE COMPLIANCE	18
6.4.1 <i>E.U.T. Operation</i>	19
6.4.2 <i>Test Setup Diagram</i>	19
6.4.3 <i>Measurement Data</i>	19
6.5 SPURIOUS EMISSIONS AT ANTENNA TERMINALS	20
6.5.1 <i>E.U.T. Operation</i>	21
6.5.2 <i>Test Setup Diagram</i>	21
6.5.3 <i>Measurement Data</i>	21
6.6 FIELD STRENGTH OF SPURIOUS RADIATION.....	22
6.6.1 <i>E.U.T. Operation</i>	23
6.6.2 <i>Test Setup Diagram</i>	23
6.6.3 <i>Measurement Procedure and Data</i>	24
6.7 FREQUENCY STABILITY.....	38
6.7.1 <i>E.U.T. Operation</i>	38



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6.7.2	Test Setup Diagram	38
6.7.3	Measurement Data	38
6.8	MODULATION CHARACTERISTICS	39
6.8.1	E.U.T. Operation	39
6.8.2	Test Setup Diagram	39
6.8.3	Measurement Data	39
7	TEST SETUP PHOTO	40
8	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	40



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.85V by Li-ion battery Recharged by AC/DC power adapter Adapter M/N: TPA-10R120150UU01 Adapter input: AC100-240V, 50/60Hz, 0.6A Adapter output: DC3.6-6V/3A, 6-9V/2A, 9-12V/1.5A
Cable(s):	USB Type C cable: 1m shielded cable without ferrite core
Sample Type:	Portable production
LTE Operation Frequency Band:	LTE FDD Band 2,4,5,7,12,13,17,26,38,40,41,42,48
Modulation Type:	QPSK, 16QAM
LTE Power Class:	Level 3
Antenna Type:	PIFA Antenna LTE B2, -1dBi 4, -1dBi 5, -2dBi 7, 1dBi 12, -2.5dBi 13, -2.5dBi 17, -2.5dBi 26, -2dBi 38, 1dBi 40, -0.5dBi 41, 1dBi 42, 1dBi 48, 1dBi
Antenna Gain:	
SIM Card:	This device has dual SIM Card sockets. Both the SIM sockets have been tested. SIM1 was worst case, only record SIM1.

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



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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
LTE FDD Band 5	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
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 7	5	2502.5	2535.0	2567.5
	10	2505.0	2535.0	2565.0
	15	2507.5	2535.0	2562.5
	20	2510.0	2535.0	2560.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
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
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 13	5	779.5	782.0	784.5
	10	/	782.0	/
Test mode:	Nominal Bandwidth	RF Channel		
		Low (L)	Middle (M)	High (H)



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	(MHz)	MHz	MHz	MHz
LTE FDD Band 17	5	706.5	710.0	713.5
	10	709.0	710.0	711.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
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	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
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
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		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 38	5	2572.5	2595.0	2617.5
	10	2575.0	2595.0	2615.0
	15	2577.5	2595.0	2612.5
	20	2580.0	2595.0	2610.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 40a	5	2307.5	2310.0	2312.5
	10	/	2310.0	/



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Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 40b	5	2352.5	2355.0	2357.5
	10	/	2355.0	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 41	5	2498.5	2593.0	2687.5
	10	2501.0	2593.0	2685.0
	15	2503.5	2593.0	2682.5
	20	2506.0	2593.0	2680.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 42	5	3452.5	3500.0	3547.5
	10	3455.0	3500.0	3545.0
	15	3457.5	3500.0	3542.5
	20	3460.0	3500.0	3540.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 48	5	3552.5	3625.0	3697.5
	10	3555.0	3625.0	3695.0
	15	3557.5	3625.0	3692.5
	20	3560.0	3625.0	3690.0



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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	3.85 V
	VH	4.4 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

The EUT has been tested independent unit.

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.4 \times 10^{-8}$
2	Duty cycle	$\pm 0.3\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.8\text{dB}$
5	RF power density	$\pm 0.4\text{dB}$
6	Conducted Spurious emissions	$\pm 2.7\text{dB}$
7	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (Below 1GHz)
		$\pm 4.4\text{dB}$ (Above 1GHz)
8	Temperature test	$\pm 1^\circ\text{C}$
9	Humidity test	$\pm 3\%$
10	Supply voltages	$\pm 1.5\%$
11	Time	$\pm 3\%$



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4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 Test Facility

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

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

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
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2021/7/13	2022/7/12
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2022/03/29	2023/03/28
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2021/07/13	2022/07/12

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2019/08/08	2022/08/07
Signal Generator(9kHz-40GHz)	N5173B	MY53270267	Agilent	2021/7/13	2022/7/12
Pre-amplifier	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12



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Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2020/06/26	2023/06/25
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2022/03/29	2023/03/28

General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021/07/13	2022/07/12
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021/07/13	2022/07/12
Barometer	DUMAI	DYM3	SEM002-24	2021/07/13	2022/07/12



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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Output Power Data

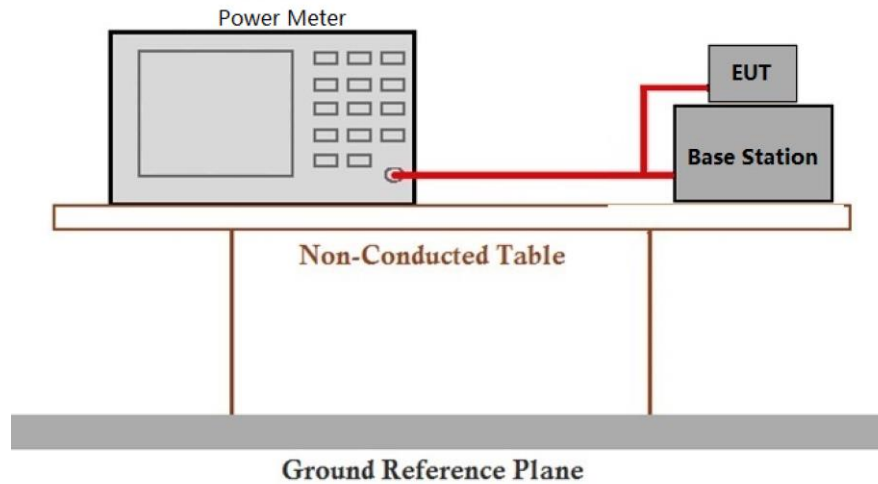
Test Requirement:	§2.1046, §22.913, §24.232, §27.50(a), §27.50(b), §27.50(c), §27.50(d), §27.50(h), §27.50(k), §90.635, §96.41(b)
Test Method:	ANSI C63.26-2015, KDB 971168 D01 v03r01
Limit:	ERP ≤ 7W (LTE Band 5, 26b) EIRP ≤ 2W (LTE Band 2) EIRP ≤ 250mW/5MHz (LTE Band 40) ERP ≤ 3W (LTE Band 13) ERP ≤ 3W (LTE Band 12, 17) EIRP ≤ 1W (LTE Band 4) EIRP ≤ 2W (LTE Band 7, 38, 41) EIRP ≤ 1W/10MHz (LTE Band 42) ERP ≤ 100W (LTE Band 26a) EIRP ≤ 23dBm/10MHz (LTE Band 48)

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
Test mode 30: 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.



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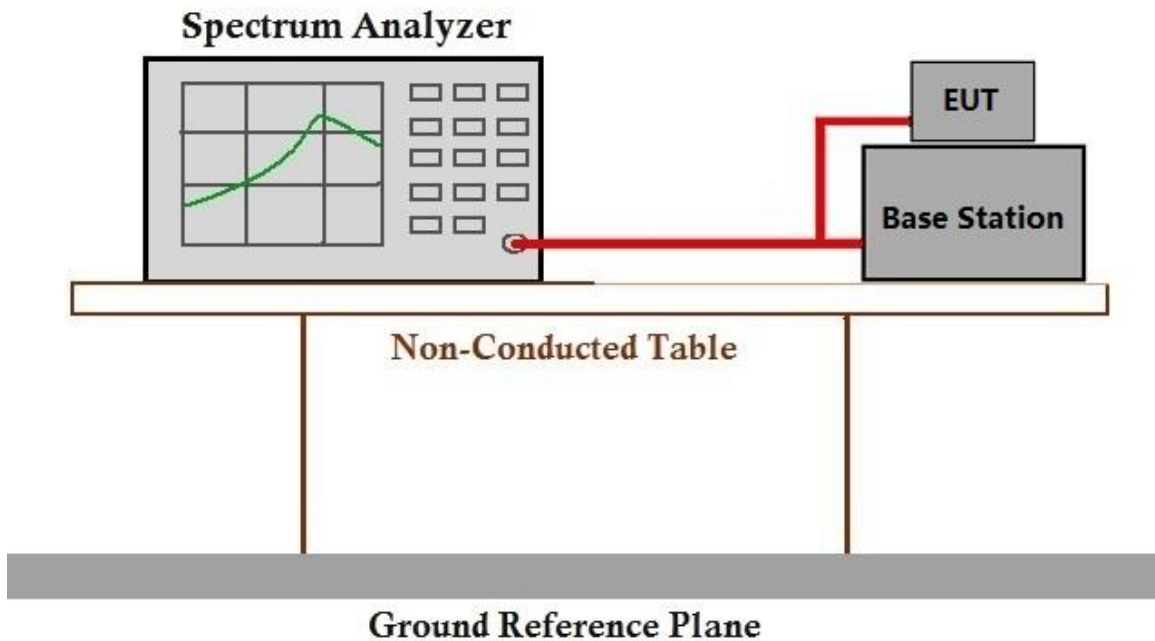
6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(a), §27.50(d), §96.41(g)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 30: 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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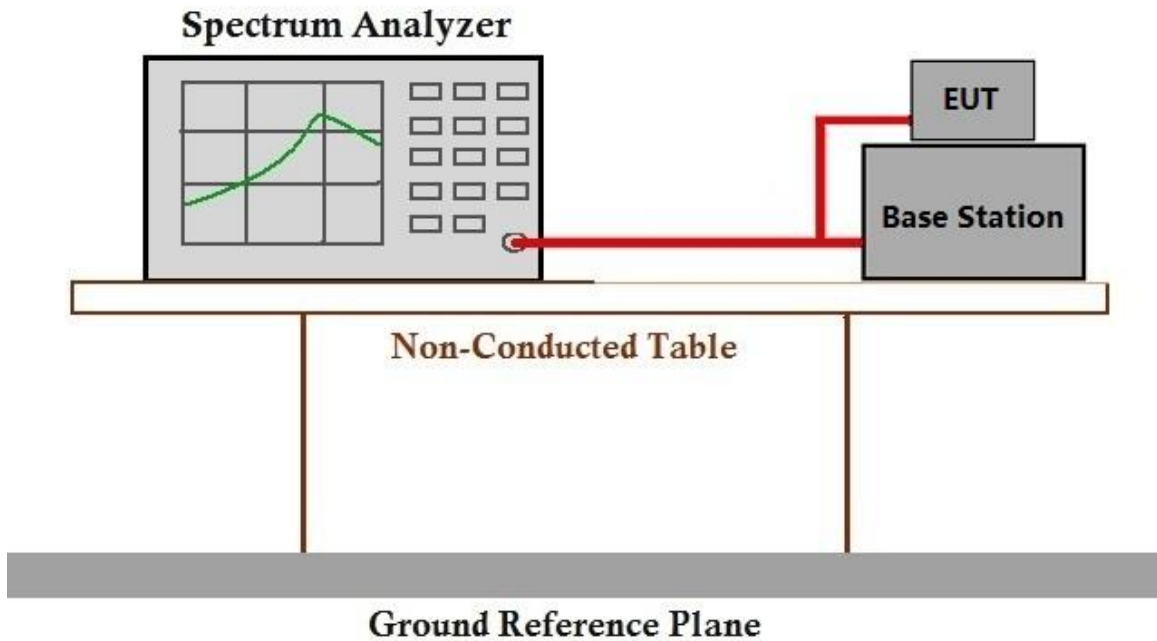
6.3 Bandwidth

Test Requirement: §2.1049(h)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: OBW: No limit
 EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 30: 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), §27.53(a), §27.53(n), §96.41(e), §90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm (**LTE Band2,4,5,12,17,26b,42**)

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

For Band7,38,41:

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.

For Band40:

- (i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;
- (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.



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For Band48:

Emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz)

At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz

Emissions below 3530MHz or above 3720 MHz shall not exceed -40dBm/MHz

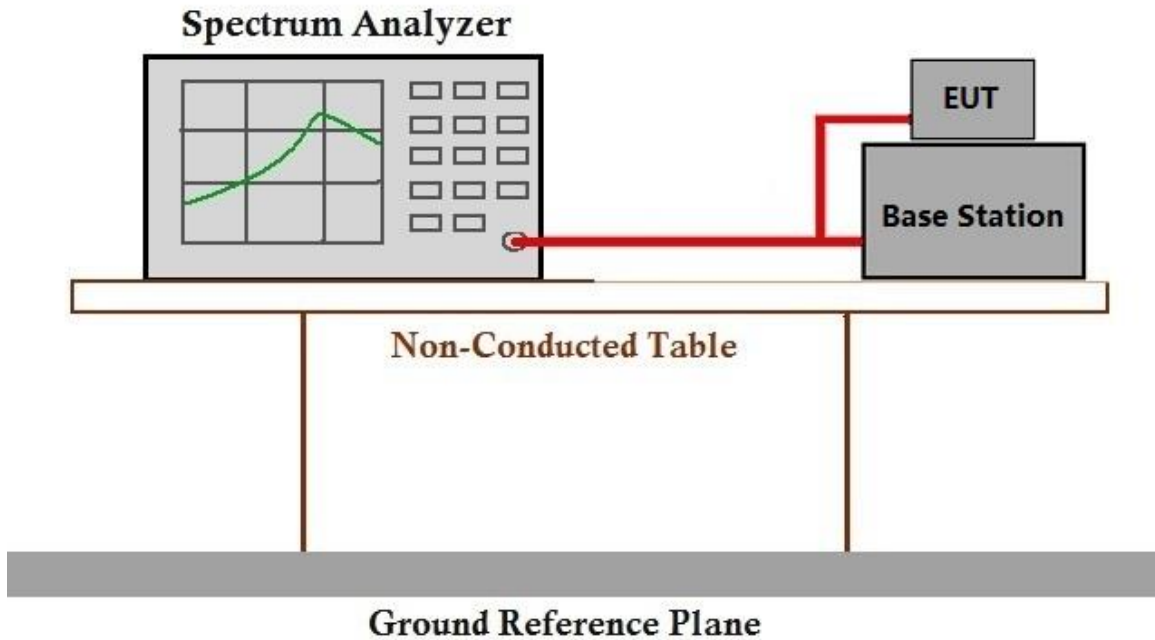
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

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), §27.53(a), §27.53(n), §96.41(e), §90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm (**LTE Band2,4,5,12,17,26b,42**)

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

For Band7,38,41:

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.

For Band40:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.



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For Band48:

Emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz)

At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz

Emissions below 3530MHz or above 3720 MHz shall not exceed -40dBm/MHz

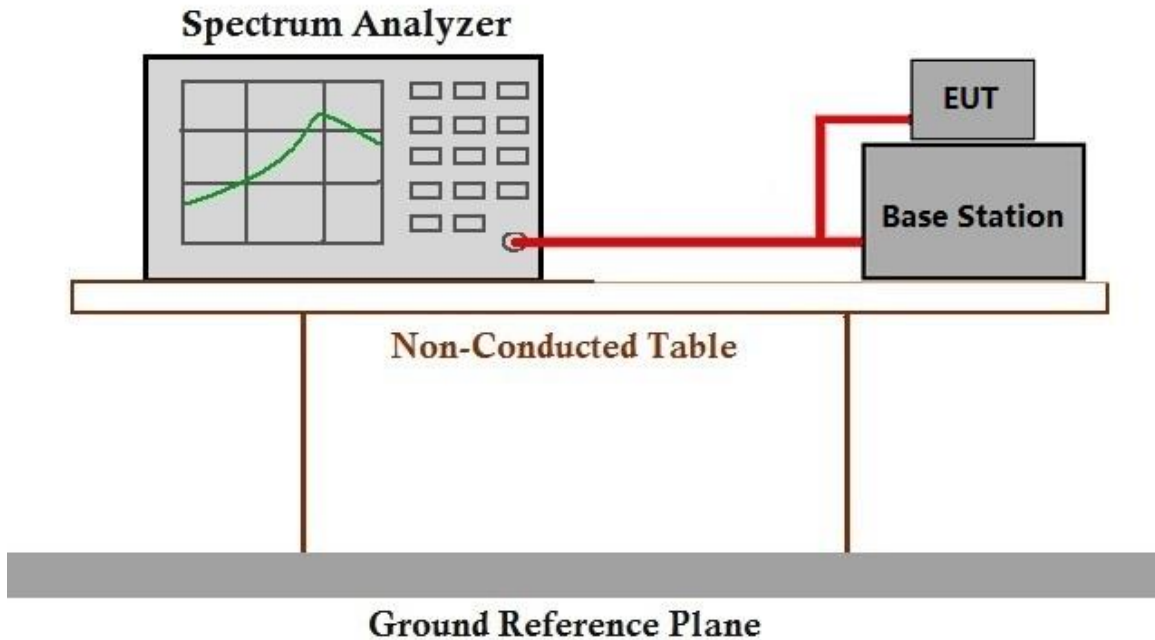
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: 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), §27.53(a), §27.53(n), §96.41(e), §90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm (**LTE Band2,4,5,12,17,26b,42**)

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

For Band7,38,41:

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.

For Band40:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.



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For Band48:

Emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz)

At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz

Emissions below 3530MHz or above 3720 MHz shall not exceed -40dBm/MHz

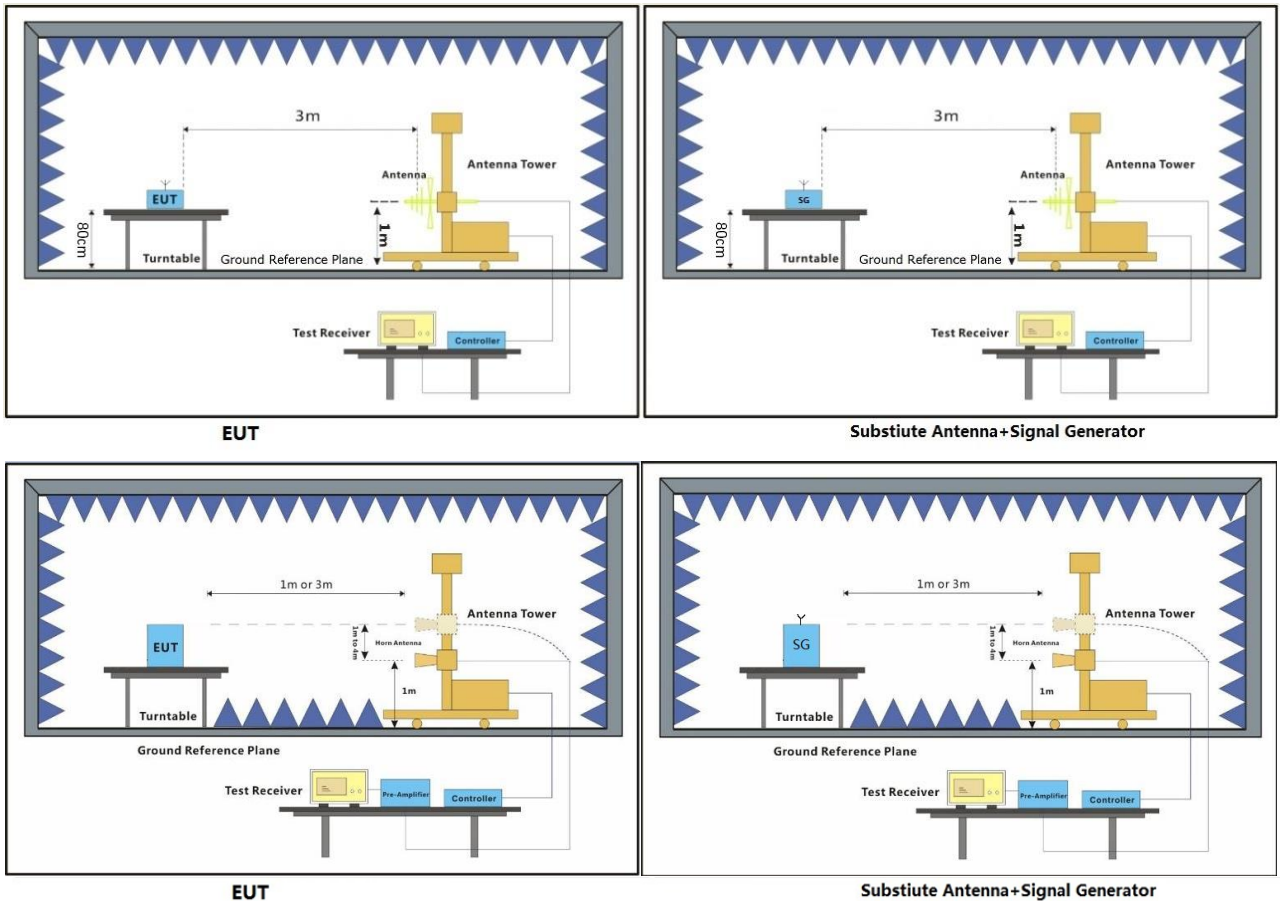
6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 18.5 °C Humidity: 39.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

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	-49.26	-13	-36.26	-51.48	6.99	9.21	Horizontal	Pass
5553	-47.54	-13	-34.54	-49.86	8.27	10.59	Horizontal	Pass
7404	-44.63	-13	-31.63	-48.17	8.19	11.73	Horizontal	Pass
3702	-50.36	-13	-37.36	-52.58	6.99	9.21	Vertical	Pass
5553	-47.38	-13	-34.38	-49.7	8.27	10.59	Vertical	Pass
7404	-43.79	-13	-30.79	-47.33	8.19	11.73	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	-50.16	-13	-37.16	-52.38	6.99	9.21	Horizontal	Pass
5613	-47.9	-13	-34.9	-50.22	8.27	10.59	Horizontal	Pass
7484	-44.36	-13	-31.36	-47.9	8.19	11.73	Horizontal	Pass
3742	-50.06	-13	-37.06	-52.28	6.99	9.21	Vertical	Pass
5613	-48.5	-13	-35.5	-50.82	8.27	10.59	Vertical	Pass
7484	-42.59	-13	-29.59	-46.13	8.19	11.73	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	-49.64	-13	-36.64	-51.86	6.99	9.21	Horizontal	Pass
5673	-48.7	-13	-35.7	-51.02	8.27	10.59	Horizontal	Pass
7564	-43.86	-13	-30.86	-47.69	8.43	12.26	Horizontal	Pass
3782	-48.36	-13	-35.36	-50.58	6.99	9.21	Vertical	Pass
5673	-46.93	-13	-33.93	-49.25	8.27	10.59	Vertical	Pass
7564	-43.9	-13	-30.9	-47.73	8.43	12.26	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	-49.63	-13	-36.63	-52.21	5.72	8.3	Horizontal	Pass
5133	-48.12	-13	-35.12	-50.12	8.3	10.3	Horizontal	Pass
6844	-45.61	-13	-32.61	-49.16	7.7	11.25	Horizontal	Pass
3422	-50.25	-13	-37.25	-52.83	5.72	8.3	Vertical	Pass
5133	-47.52	-13	-34.52	-49.52	8.3	10.3	Vertical	Pass
6844	-46.25	-13	-33.25	-49.8	7.7	11.25	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	-51.29	-13	-38.29	-53.87	5.72	8.3	Horizontal	Pass
5170.5	-47.37	-13	-34.37	-49.37	8.3	10.3	Horizontal	Pass
6894	-45.95	-13	-32.95	-49.5	7.7	11.25	Horizontal	Pass
3447	-50.96	-13	-37.96	-53.54	5.72	8.3	Vertical	Pass
5170.5	-48.56	-13	-35.56	-50.56	8.3	10.3	Vertical	Pass
6894	-46.87	-13	-33.87	-50.42	7.7	11.25	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	-50.79	-13	-37.79	-53.37	5.72	8.3	Horizontal	Pass
5208	-46.65	-13	-33.65	-48.65	8.3	10.3	Horizontal	Pass
6944	-46.02	-13	-33.02	-49.57	7.7	11.25	Horizontal	Pass
3472	-51.51	-13	-38.51	-54.09	5.72	8.3	Vertical	Pass
5208	-47.15	-13	-34.15	-49.15	8.3	10.3	Vertical	Pass
6944	-45.97	-13	-32.97	-49.52	7.7	11.25	Vertical	Pass



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FDD LTE Band5-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
1649	-58.47	-13	-45.47	-59.98	3.77	7.43	Horizontal	Pass
2473.5	-54.33	-13	-41.33	-54.51	4.75	7.08	Horizontal	Pass
3298	-51.51	-13	-38.51	-51.94	5.72	8.3	Horizontal	Pass
1649	-58.39	-13	-45.39	-59.9	3.77	7.43	Vertical	Pass
2473.5	-54.11	-13	-41.11	-54.29	4.75	7.08	Vertical	Pass
3298	-50.97	-13	-37.97	-51.4	5.72	8.3	Vertical	Pass

FDD LTE Band5-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
1664	-57.12	-13	-44.12	-58.63	3.77	7.43	Horizontal	Pass
2496	-53.88	-13	-40.88	-54.06	4.75	7.08	Horizontal	Pass
3328	-51.45	-13	-38.45	-51.88	5.72	8.3	Horizontal	Pass
1664	-57.46	-13	-44.46	-58.97	3.77	7.43	Vertical	Pass
2496	-54.7	-13	-41.7	-54.88	4.75	7.08	Vertical	Pass
3328	-51.32	-13	-38.32	-51.75	5.72	8.3	Vertical	Pass

FDD LTE Band5-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
1679	-58.06	-13	-45.06	-59.57	3.77	7.43	Horizontal	Pass
2518.5	-55.12	-13	-42.12	-55.44	5.13	7.6	Horizontal	Pass
3358	-50.21	-13	-37.21	-50.64	5.72	8.3	Horizontal	Pass
1679	-58.02	-13	-45.02	-59.53	3.77	7.43	Vertical	Pass
2518.5	-54.05	-13	-41.05	-54.37	5.13	7.6	Vertical	Pass
3358	-49.57	-13	-36.57	-50	5.72	8.3	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	-47.96	-25	-22.96	-49.96	8.3	10.3	Horizontal	Pass
7503	-43.83	-25	-18.83	-47.66	8.43	12.26	Horizontal	Pass
10004	-42.02	-25	-17.02	-44.27	11.12	13.37	Horizontal	Pass
5002	-47.31	-25	-22.31	-49.31	8.3	10.3	Vertical	Pass
7503	-43.48	-25	-18.48	-47.31	8.43	12.26	Vertical	Pass
10004	-43.48	-25	-18.48	-45.73	11.12	13.37	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	-47.88	-25	-22.88	-49.88	8.3	10.3	Horizontal	Pass
7578	-44.96	-25	-19.96	-48.79	8.43	12.26	Horizontal	Pass
10204	-40.62	-25	-15.62	-42.87	11.12	13.37	Horizontal	Pass
5052	-47.72	-25	-22.72	-49.72	8.3	10.3	Vertical	Pass
7578	-45.15	-25	-20.15	-48.98	8.43	12.26	Vertical	Pass
10204	-41.83	-25	-16.83	-44.08	11.12	13.37	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	-46.24	-25	-21.24	-48.24	8.3	10.3	Horizontal	Pass
7653	-44.8	-25	-19.8	-48.63	8.43	12.26	Horizontal	Pass
10204	-43.65	-25	-18.65	-45.9	11.12	13.37	Horizontal	Pass
5102	-47.16	-25	-22.16	-49.16	8.3	10.3	Vertical	Pass
7653	-45.13	-25	-20.13	-48.96	8.43	12.26	Vertical	Pass
10204	-43.53	-25	-18.53	-45.78	11.12	13.37	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	-54.95	-13	-44.1	-57.48	2.64	5.17	Horizontal	Pass
2098.5	-54.7	-13	-43.85	-57.03	4.75	7.08	Horizontal	Pass
2798	-51.88	-13	-41.03	-54.35	5.13	7.6	Horizontal	Pass
1399	-56.77	-13	-45.92	-59.3	2.64	5.17	Vertical	Pass
2098.5	-53.53	-13	-42.68	-55.86	4.75	7.08	Vertical	Pass
2798	-50.6	-13	-39.75	-53.07	5.13	7.6	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	-56.69	-13	-45.84	-59.22	2.64	5.17	Horizontal	Pass
2109	-55.11	-13	-44.26	-57.44	4.75	7.08	Horizontal	Pass
2812	-51.83	-13	-40.98	-54.3	5.13	7.6	Horizontal	Pass
1406	-55.59	-13	-44.74	-58.12	2.64	5.17	Vertical	Pass
2109	-54.52	-13	-43.67	-56.85	4.75	7.08	Vertical	Pass
2812	-51.72	-13	-40.87	-54.19	5.13	7.6	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	-56.27	-13	-45.42	-58.8	2.64	5.17	Horizontal	Pass
2121.5	-54.44	-13	-43.59	-56.77	4.75	7.08	Horizontal	Pass
2826	-51.63	-13	-40.78	-54.1	5.13	7.6	Horizontal	Pass
1413	-56.12	-13	-45.27	-58.65	2.64	5.17	Vertical	Pass
2121.5	-54.62	-13	-43.77	-56.95	4.75	7.08	Vertical	Pass
2826	-49.95	-13	-39.1	-52.42	5.13	7.6	Vertical	Pass



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Report No.: FYCR220400013409

Page: 30 of 40

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	-46.93	-13	-36.08	-50.59	3.77	7.43	Horizontal	Pass
2332.5	-53.68	-13	-42.83	-56.01	4.75	7.08	Horizontal	Pass
3110	-49.11	-13	-38.26	-51.69	5.72	8.3	Horizontal	Pass
1555	-45	-13	-34.15	-48.66	3.77	7.43	Vertical	Pass
2332.5	-54.78	-13	-43.93	-57.11	4.75	7.08	Vertical	Pass
3110	-49.2	-13	-38.35	-51.78	5.72	8.3	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	-56.34	-13	-45.49	-58.87	2.64	5.17	Horizontal	Pass
2113.5	-54.98	-13	-44.13	-57.31	4.75	7.08	Horizontal	Pass
2818	-51.29	-13	-40.44	-53.76	5.13	7.6	Horizontal	Pass
1409	-56.06	-13	-45.21	-58.59	2.64	5.17	Vertical	Pass
2113.5	-54.71	-13	-43.86	-57.04	4.75	7.08	Vertical	Pass
2818	-50.91	-13	-40.06	-53.38	5.13	7.6	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	-55.62	-13	-44.77	-58.15	2.64	5.17	Horizontal	Pass
2116.5	-54.74	-13	-43.89	-57.07	4.75	7.08	Horizontal	Pass
2822	-51.36	-13	-40.51	-53.83	5.13	7.6	Horizontal	Pass
1411	-56.24	-13	-45.39	-58.77	2.64	5.17	Vertical	Pass
2116.5	-54.71	-13	-43.86	-57.04	4.75	7.08	Vertical	Pass
2822	-51.9	-13	-41.05	-54.37	5.13	7.6	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	-56.29	-13	-45.44	-58.82	2.64	5.17	Horizontal	Pass
2121.5	-55.05	-13	-44.2	-57.38	4.75	7.08	Horizontal	Pass
2826	-50.99	-13	-40.14	-53.46	5.13	7.6	Horizontal	Pass
1413	-56.52	-13	-45.67	-59.05	2.64	5.17	Vertical	Pass
2121.5	-54.86	-13	-44.01	-57.19	4.75	7.08	Vertical	Pass
2826	-51.15	-13	-40.3	-53.62	5.13	7.6	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	-56.35	-13	-45.5	-60.01	3.77	7.43	Horizontal	Pass
2474.25	-52.09	-13	-41.24	-54.42	4.75	7.08	Horizontal	Pass
3299	-50.06	-13	-39.21	-52.64	5.72	8.3	Horizontal	Pass
1649.5	-57.02	-13	-46.17	-60.68	3.77	7.43	Vertical	Pass
2474.25	-52.48	-13	-41.63	-54.81	4.75	7.08	Vertical	Pass
3299	-49.21	-13	-38.36	-51.79	5.72	8.3	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	-55.37	-13	-44.52	-59.03	3.77	7.43	Horizontal	Pass
2489.25	-53.11	-13	-42.26	-55.44	4.75	7.08	Horizontal	Pass
3319	-49.29	-13	-38.44	-51.87	5.72	8.3	Horizontal	Pass
1659.5	-56.74	-13	-45.89	-60.4	3.77	7.43	Vertical	Pass
2489.25	-52.91	-13	-42.06	-55.24	4.75	7.08	Vertical	Pass
3319	-49.09	-13	-38.24	-51.67	5.72	8.3	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	-56.81	-13	-45.96	-60.47	3.77	7.43	Horizontal	Pass
2504.25	-53.92	-13	-43.07	-56.39	5.13	7.6	Horizontal	Pass
3339	-48.39	-13	-37.54	-50.97	5.72	8.3	Horizontal	Pass
1669.5	-56.44	-13	-45.59	-60.1	3.77	7.43	Vertical	Pass
2504.25	-53.07	-13	-42.22	-55.54	5.13	7.6	Vertical	Pass
3339	-49.52	-13	-38.67	-52.1	5.72	8.3	Vertical	Pass



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FDD LTE Band38-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
5142	-33.32	-25	-8.32	-35.32	8.3	10.3	Horizontal	Pass
7713	-44.83	-25	-19.83	-48.66	8.43	12.26	Horizontal	Pass
10284	-43.69	-25	-18.69	-45.94	11.12	13.37	Horizontal	Pass
5142	-36	-25	-11	-38	8.3	10.3	Vertical	Pass
7713	-44.36	-25	-19.36	-48.19	8.43	12.26	Vertical	Pass
10284	-43.2	-25	-18.2	-45.45	11.12	13.37	Vertical	Pass

FDD LTE Band38-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
5172	-35.23	-25	-10.23	-37.23	8.3	10.3	Horizontal	Pass
7758	-45.49	-25	-20.49	-49.32	8.43	12.26	Horizontal	Pass
10344	-43.64	-25	-18.64	-45.89	11.12	13.37	Horizontal	Pass
5172	-37.92	-25	-12.92	-39.92	8.3	10.3	Vertical	Pass
7758	-44.86	-25	-19.86	-48.69	8.43	12.26	Vertical	Pass
10344	-43.44	-25	-18.44	-45.69	11.12	13.37	Vertical	Pass

FDD LTE Band38-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
5202	-34.54	-25	-9.54	-36.54	8.3	10.3	Horizontal	Pass
7803	-45.51	-25	-20.51	-49.34	8.43	12.26	Horizontal	Pass
10404	-43.24	-25	-18.24	-45.49	11.12	13.37	Horizontal	Pass
5202	-36.73	-25	-11.73	-38.73	8.3	10.3	Vertical	Pass
7803	-45.74	-25	-20.74	-49.57	8.43	12.26	Vertical	Pass
10404	-42.49	-25	-17.49	-44.74	11.12	13.37	Vertical	Pass



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FDD LTE Band40a-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
4611	-49.17	-13	-36.17	-51.76	7.47	10.06	Horizontal	Pass
6916.5	-46.27	-13	-33.27	-49.82	7.7	11.25	Horizontal	Pass
9222	-42.59	-13	-29.59	-45.3	10.75	13.46	Horizontal	Pass
4611	-49.67	-13	-36.67	-52.26	7.47	10.06	Vertical	Pass
6916.5	-46.49	-13	-33.49	-50.04	7.7	11.25	Vertical	Pass
9222	-41.04	-13	-28.04	-43.75	10.75	13.46	Vertical	Pass

FDD LTE Band40b-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
4701	-49.21	-13	-36.21	-51.8	7.47	10.06	Horizontal	Pass
7051.5	-45.58	-13	-32.58	-49.12	8.19	11.73	Horizontal	Pass
9402	-41.66	-13	-28.66	-44.37	10.75	13.46	Horizontal	Pass
4701	-49.41	-13	-36.41	-52	7.47	10.06	Vertical	Pass
7051.5	-45.64	-13	-32.64	-49.18	8.19	11.73	Vertical	Pass
9402	-42.5	-13	-29.5	-45.21	10.75	13.46	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
4994	-33.83	-25	-8.83	-35.83	8.3	10.3	Horizontal	Pass
7491	-44.46	-25	-19.46	-48.29	8.43	12.26	Horizontal	Pass
9988	-42.76	-25	-17.76	-45.01	11.12	13.37	Horizontal	Pass
4994	-34.7	-25	-9.7	-36.7	8.3	10.3	Vertical	Pass
7491	-44.42	-25	-19.42	-48.25	8.43	12.26	Vertical	Pass
9988	-42.11	-25	-17.11	-44.36	11.12	13.37	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
5168	-33.94	-25	-8.94	-35.94	8.3	10.3	Horizontal	Pass
7752	-44.6	-25	-19.6	-48.43	8.43	12.26	Horizontal	Pass
10336	-43.17	-25	-18.17	-45.42	11.12	13.37	Horizontal	Pass
5168	-34.05	-25	-9.05	-36.05	8.3	10.3	Vertical	Pass
7752	-45.27	-25	-20.27	-49.1	8.43	12.26	Vertical	Pass
10336	-43.74	-25	-18.74	-45.99	11.12	13.37	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
5342	-33.49	-25	-8.49	-35.49	8.3	10.3	Horizontal	Pass
8013	-43.25	-25	-18.25	-46.5	9.43	12.68	Horizontal	Pass
10684	-41.42	-25	-16.42	-43.84	11.06	13.48	Horizontal	Pass
5342	-37.24	-25	-12.24	-39.24	8.3	10.3	Vertical	Pass
8013	-42.24	-25	-17.24	-45.49	9.43	12.68	Vertical	Pass
10684	-41.49	-25	-16.49	-43.91	11.06	13.48	Vertical	Pass



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FDD LTE Band42-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
6802	-24.94	-13	-11.94	-28.49	7.7	11.25	Horizontal	Pass
10203	-43.23	-13	-30.23	-45.48	11.12	13.37	Horizontal	Pass
13604	-36.4	-13	-23.4	-38.47	12.09	14.16	Horizontal	Pass
6802	-26.58	-13	-13.58	-30.13	7.7	11.25	Vertical	Pass
10203	-42.77	-13	-29.77	-45.02	11.12	13.37	Vertical	Pass
13604	-37.17	-13	-24.17	-39.24	12.09	14.16	Vertical	Pass

FDD LTE Band42-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
6982	-24.93	-13	-11.93	-28.48	7.7	11.25	Horizontal	Pass
10473	-41.85	-13	-28.85	-44.1	11.12	13.37	Horizontal	Pass
13964	-37.26	-13	-24.26	-39.33	12.09	14.16	Horizontal	Pass
6982	-26.43	-13	-13.43	-29.98	7.7	11.25	Vertical	Pass
10473	-43.15	-13	-30.15	-45.4	11.12	13.37	Vertical	Pass
13964	-37.15	-13	-24.15	-39.22	12.09	14.16	Vertical	Pass

FDD LTE Band42-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
7082	-24.78	-13	-11.78	-28.32	8.19	11.73	Horizontal	Pass
10623	-40.99	-13	-27.99	-43.41	11.06	13.48	Horizontal	Pass
14164	-35.62	-13	-22.62	-38.63	11.48	14.49	Horizontal	Pass
7082	-25.21	-13	-12.21	-28.75	8.19	11.73	Vertical	Pass
10623	-41.43	-13	-28.43	-43.85	11.06	13.48	Vertical	Pass
14164	-35.09	-13	-22.09	-38.1	11.48	14.49	Vertical	Pass



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LTE Band 48_QPSK_20MHz_Low Channel, 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
7082	-51.17	-40	-11.17	-54.71	8.19	11.73	Horizontal	Pass
10623	-48.75	-40	-8.75	-51.17	11.06	13.48	Horizontal	Pass
14164	-46.04	-40	-6.04	-49.05	11.48	14.49	Horizontal	Pass
7082	-51.35	-40	-11.35	-54.89	8.19	11.73	Vertical	Pass
10623	-48.59	-40	-8.59	-51.01	11.06	13.48	Vertical	Pass
14164	-45.25	-40	-5.25	-48.26	11.48	14.49	Vertical	Pass

LTE Band 48_QPSK_20MHz_Middle Channel, 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
7232	-53.04	-40	-13.04	-56.58	8.19	11.73	Horizontal	Pass
10848	-48.33	-40	-8.33	-50.75	11.06	13.48	Horizontal	Pass
14464	-44.76	-40	-4.76	-47.77	11.48	14.49	Horizontal	Pass
7232	-52.77	-40	-12.77	-56.31	8.19	11.73	Vertical	Pass
10848	-48.38	-40	-8.38	-50.8	11.06	13.48	Vertical	Pass
14464	-44	-40	-4	-47.01	11.48	14.49	Vertical	Pass

LTE Band 48_QPSK_20MHz_High Channel, 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
7362	-51.72	-40	-11.72	-55.26	8.19	11.73	Horizontal	Pass
11043	-47.69	-40	-7.69	-49.98	11.36	13.65	Horizontal	Pass
14724	-43.3	-40	-3.3	-46.2	11.4	14.3	Horizontal	Pass
7362	-51.71	-40	-11.71	-55.25	8.19	11.73	Vertical	Pass
11043	-47.59	-40	-7.59	-49.88	11.36	13.65	Vertical	Pass
14724	-43.91	-40	-3.91	-46.81	11.4	14.3	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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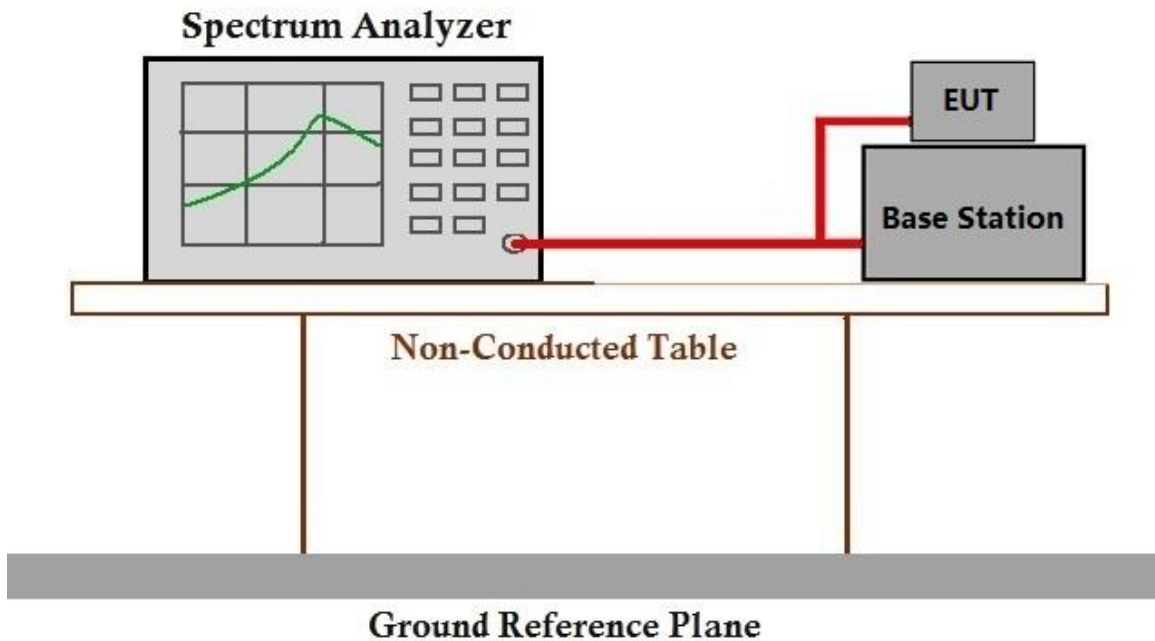
6.7 Frequency stability

Test Requirement: §2.1055, §22.355, §24.235, §27.54, §90.213
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: $\leq \pm 2.5\text{ppm}$.

6.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 30: 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.



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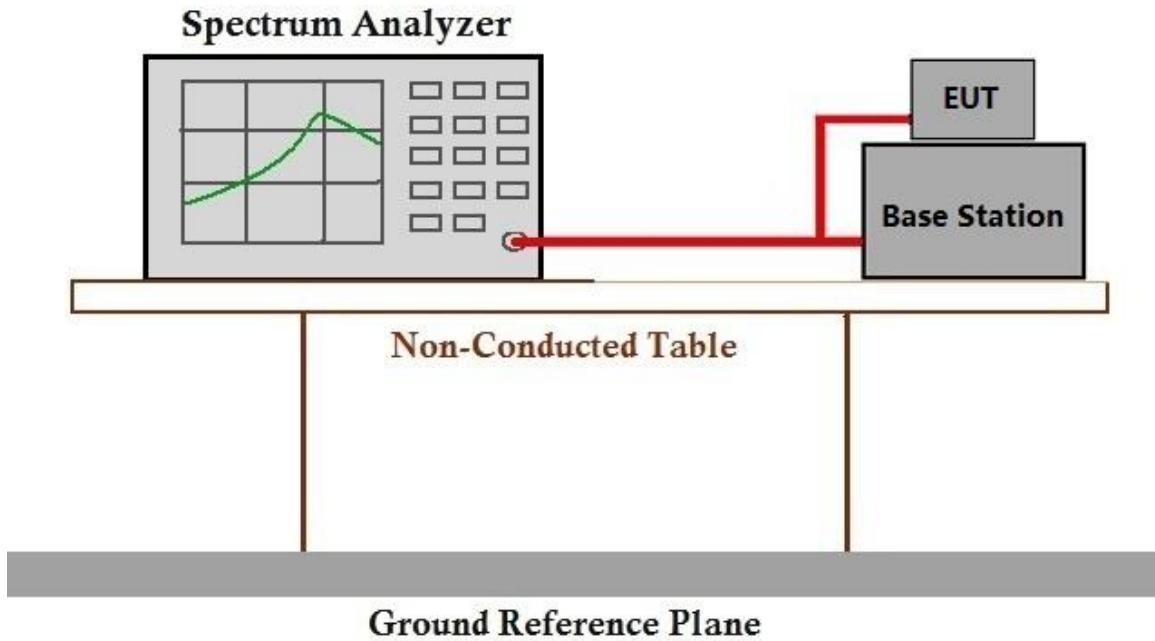
6.8 Modulation Characteristics

Test Requirement: §2.1047
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: Digital modulation

6.8.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 30: 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 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2204000134AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2204000134AT

- End of the Report -



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