

TEST REPORT

Application No.:

SZCR2312004019AT

Applicant:

KEYENCE CORPORATION

Address of Applicant:

1-3-14, Higashinakajima, Higashiyodogawa-ku, Osaka, 533-8555 Japan

Manufacturer:

KEYENCE CORPORATION

Address of Manufacturer:

1-3-14, Higashinakajima, Higashiyodogawa-ku, Osaka, 533-8555 Japan

Factory:

KEYENCE CORPORATION

Address of Factory:

1-3-14, Higashinakajima, Higashiyodogawa-ku, Osaka, 533-8555 Japan

Equipment Under Test (EUT):

EUT Name: Handheld Terminal

Model No.: BT-A600MGA

Trade Mark: KEYENCE

FCC ID: RF41761A

Standard(s) : 47 CFR Part 2

47 CFR Part 22

47 CFR Part 24

47 CFR Part 27

47 CFR Part 90

47 CFR Part 96

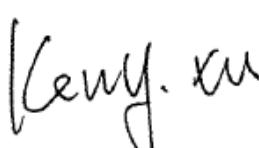
Date of Receipt: 2023-12-08

Date of Test: 2023-12-22 to 2024-08-12

Date of Issue: 2024-08-23

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



Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, No. 1 Workshop, Nanshan Hi-Tech Laboratory

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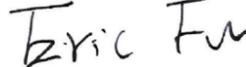
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SZEMC-TRF-01 Rev. A/1

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-08-23		Original

Authorized for issue by:			
		Calvin Weng	
		Calvin Weng/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	



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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) §27.50(k) §90.542(a) §96.41(b)	ERP≤ 7W(LTE Band 5) EIRP≤ 2W(LTE Band 2,25) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12,17,71) EIRP≤ 1W(LTE Band 4,66) EIRP≤ 2W(LTE Band 7,38,41) EIRP≤ 1W(LTE Band 42) ERP≤ 3W(LTE Band 14) EIRP≤ 23dBm/10MHz(LTE Band 42,43,48)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(a) §27.50(d) §96.41(g)	≤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(g) §27.50(h) §27.50(m) §27.53(c) §27.53(n) §90.543(e) §96.41(e)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2,25) ≤ -13dBm (LTE Band12,17,71) ≤ -13dBm (LTE Band4,66) Refer to clause 6.4 for LTE Band7,38,41 Refer to clause 6.4 for LTE Band13 ≤ -13dBm LTE Band42 Refer to clause 6.4 for LTE Band14 Refer to clause 6.4 for LTE Band42,43,48	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917 §24.238 §27.50(g) §27.50(h) §27.50(m) §27.53(c) §27.53(n) §90.543(e) §96.41(e)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2,25) ≤ -13dBm (LTE Band12,17,71) ≤ -13dBm (LTE Band4,66) Refer to clause 6.5 for LTE Band7,38,41 Refer to clause 6.5 for LTE Band13 ≤ -13dBm LTE Band42 Refer to clause 6.5 for LTE Band14 Refer to clause 6.5 for LTE Band42,43,48	PASS

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Field strength of spurious radiation	§2.1051 §22.917 §24.238 §27.50(g) §27.50(h) §27.50(m) §27.53(c) §27.53(n) §90.543(e) §96.41(e)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2,25) ≤ -13dBm (LTE Band12,17,71) ≤ -13dBm (LTE Band4,66) Refer to clause 6.6 for LTE Band7,38,41 Refer to clause 6.6 for LTE Band13 ≤ -13dBm LTE Band42 Refer to clause 6.6 for LTE Band14 Refer to clause 6.6 for LTE Band42,43,48	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54 §90.213	≤ ±2.5ppm.	PASS

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.6V by li-ion battery(6270mAh) M/N:DX-BC6 Battery manufacturer:Getac Technology(Kunshan)Co.,Ltd. Recharged by DC5V/2A power adapter
Cable Loss (for RF conducted test):	0.7dB(below 1GHz), 1dB(above 1GHz)
Sample Type:	Portable production
LTE Operation Frequency Band:	LTE B2/4/5/7/12/13/14/17/25/38/41/42/43/48/66/71
Modulation Type:	QPSK, 16QAM, 64QAM
LTE Power Class:	Level 3
Antenna Type:	FPC Antenna
Antenna Gain:	LTE B2: 2.87dBi; B4: 1.36dBi; B5: -1.18dBi; B7: 2.71dBi; B12: -1.56dBi; B13: -3.06dBi; B14: -3.39dBi; B17: -1.56dBi; B25: 2.87dBi; B38: 1.83dBi; B41: 2.71dBi; B42: 1.62dBi; B43(3600-3700): 1.54dBi; B43(3700-3800): 1.4dBi; B48: 1.62dBi; B66: 1.45dBi; B71: -1.56dBi

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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	1751.5
	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

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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 (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 14	5	790.5	793.0	795.5
	10	/	793.0	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		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 25	1.4	1850.7	1882.5	1914.3
	3	1851.5	1882.5	1913.5
	5	1852.5	1882.5	1912.5
	10	1855.0	1882.5	1910.0
	15	1857.5	1882.5	1907.5
	20	1860.0	1882.5	1905.0

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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 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(3450-3550MHz)	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 42(3550-3600MHz)	5	3552.5	3575.0	3597.5
	10	3555.0	3575.0	3595.0
	15	3557.5	3575.0	3592.5
	20	3560.0	3575.0	3590.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 43(3600-3700MHz)	5	3602.5	3650.0	3697.5
	10	3605.0	3650.0	3695.0
	15	3607.5	3650.0	3692.5
	20	3610.0	3650.0	3690.0

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Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 43(3700-3800MHz)	5	3702.5	3750.0	3797.5
	10	3705.0	3750.0	3795.0
	15	3707.5	3750.0	3792.5
	20	3710.0	3750.0	3790.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
	5	3552.5	3625.0	3697.5
LTE FDD Band 48	10	3555.0	3625.0	3695.0
	15	3557.5	3625.0	3692.5
	20	3560.0	3625.0	3690.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
	1.4	1710.7	1745.0	1779.3
LTE FDD Band 66	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
	20	1720.0	1745.0	1770.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
	5	665.5	680.5	695.5
LTE FDD Band 71	10	668.0	680.5	693.0
	15	670.5	680.5	690.5
	20	673.0	680.5	688.0

Note:

- 1) For 3550-3700MHz,
 LTE Band48 overlaps the entire frequency range of Band42/43, and Band48 power is greater than Band 42/43 power. Therefore, the conducted test results of Band 48 provided in this report cover Band42/43.

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4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	3.4 Vdc
	VN	3.6 Vdc
	VH	4.2 Vdc

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:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 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. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

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

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

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	2023-07-11 2024-07-10	2024-07-10 2025-07-09
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-20 2024-03-19	2024-03-19 2025-03-18
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2023-03-15 2024-03-14	2024-03-14 2025-03-13
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-28 2024-03-27	2024-03-27 2025-03-26
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2023-03-28 2024-03-27	2024-03-27 2025-03-26
Universal Radio Communication Tester	Anritsu	MT8000A	SEM010-10	2023-03-15 2024-03-14	2024-03-14 2025-03-13
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2023-03-20 2024-03-19	2024-03-19 2025-03-18

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-05-12 2024-05-11	2024-05-11 2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-15 2024-03-14	2024-03-14 2025-03-13
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2023-08-11 2024-08-10	2024-08-10 2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-15 2024-03-14	2024-03-14 2025-03-13
Signal Generator(9kHz-40GHz)	N5173B	MY53270267	Agilent	2023-09-19	2024-09-18

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Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021-09-26	2024-09-25
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2023-03-15 2024-03-14	2024-03-14 2025-03-13
Substitution Antenna	Rohde & Schwarz	HF907	SEM003-06	2022-08-07 2024-08-06	2024-08-06 2026-08-05
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2023-03-28 2024-03-27	2024-03-27 2025-03-26

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity- Temperature Indicator	deli	8838	SEM002-32	2023-07-25 2024-07-24	2024-07-24 2025-07-23
Humidity- Temperature Indicator	deli	8838	SEM002-33	2023-07-25 2024-07-24	2024-07-24 2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-19 2024-03-18	2024-03-18 2025-03-17

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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), §27.50(k), §90.542(a), §96.41(b)

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

Limit: $ERP \leq 7W$ (LTE Band 5)

$EIRP \leq 2W$ (LTE Band 2,25)

$ERP \leq 3W$ (LTE Band 13)

$ERP \leq 3W$ (LTE Band 12,17,71)

$EIRP \leq 1W$ (LTE Band 4,66)

$EIRP \leq 2W$ (LTE Band 7,38,41)

$EIRP \leq 1W$ (LTE Band 42)

$EIRP \leq 3W$ (LTE Band 14)

$EIRP \leq 23dBm/10MHz$ (LTE Band 42,43,48)

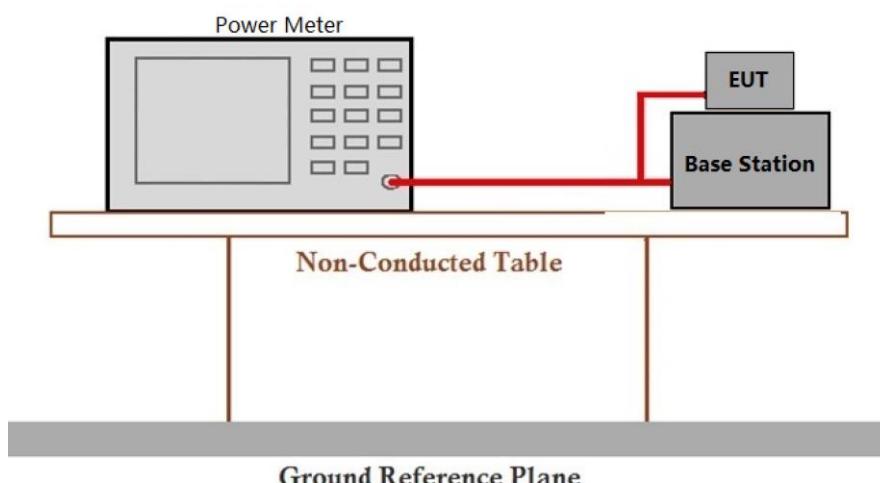
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 52.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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(d), §27.50(d), §96.41(g)

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

Limit: ≤13dB

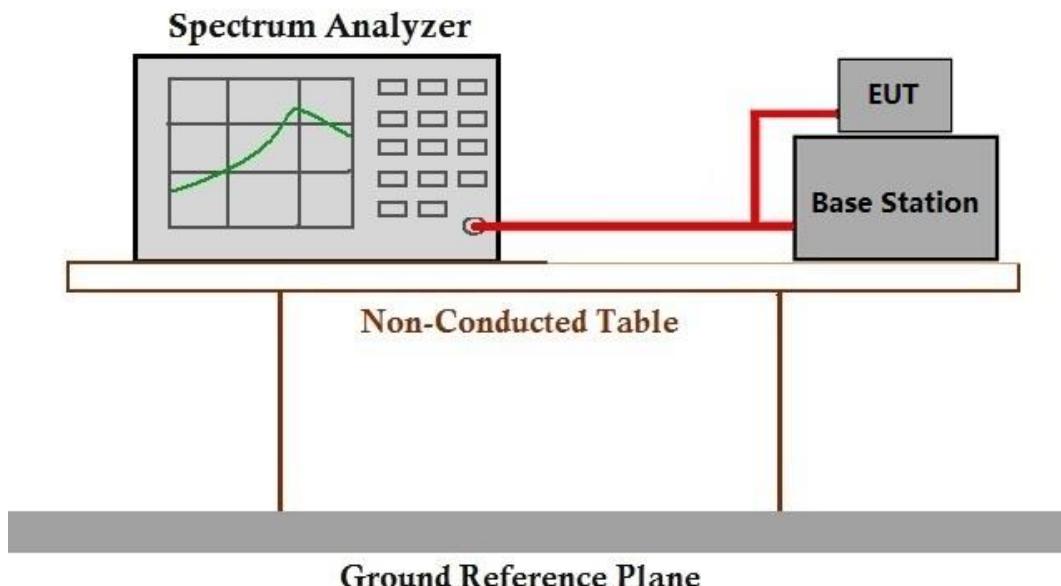
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 52.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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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Shenzhen Branch (SGS-CSTC) Laboratory 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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

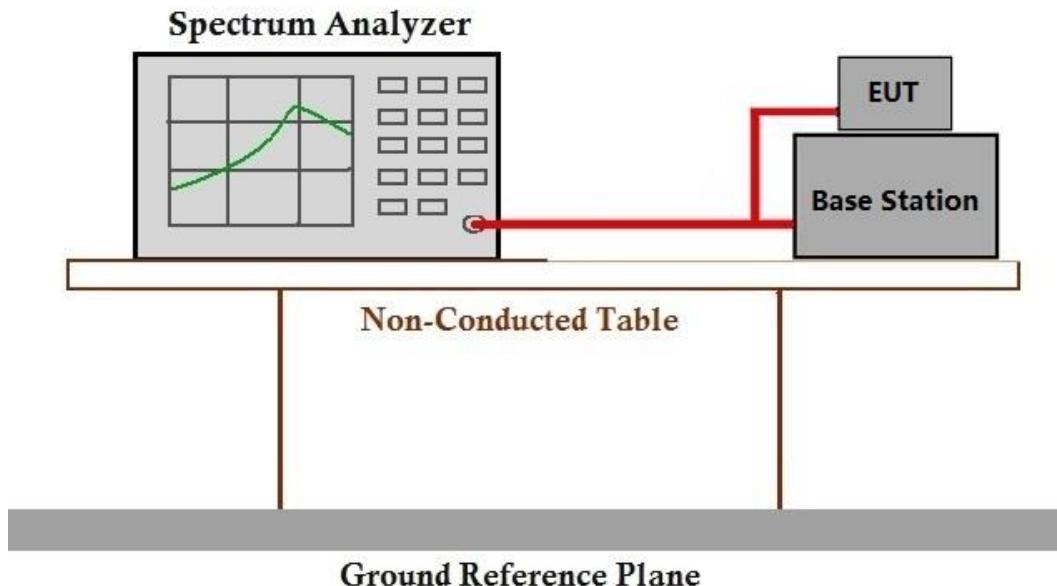
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 52.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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(g), §27.50(h), §27.50(m), §27.53(c), §27.53(n), §90.543(e), §96.41(e)

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

Limit: ≤ -13dBm (LTE Band2,4,5,12,17, 42,66,71)

For Band 13:

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;

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 operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For Band 14:

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

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 Band42,43,48:

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: 22.2 °C Humidity: 52.5 % RH Atmospheric Pressure: 1020 mbar

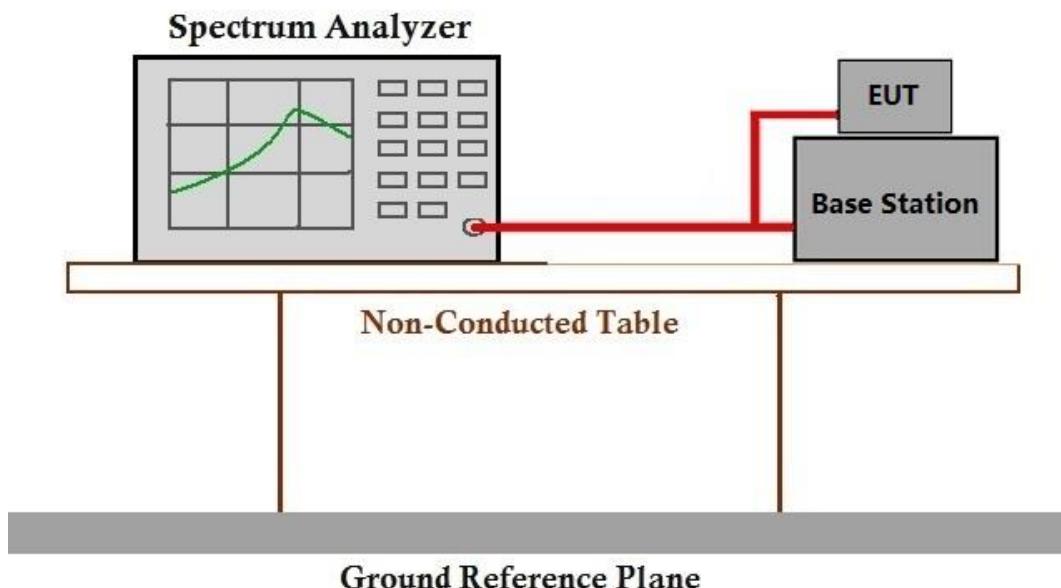
Test mode 32: TX mode_Keep the EUT in transmitting mode

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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(g), §27.50(h), §27.50(m), §27.53(c), §27.53(n), §90.543(e), §96.41(e)

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

Limit: ≤ -13dBm (LTE Band2,4,5,12,17, 42,66,71)

For Band 13:

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;

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 operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For Band 14:

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

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 Band42,43,48:

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

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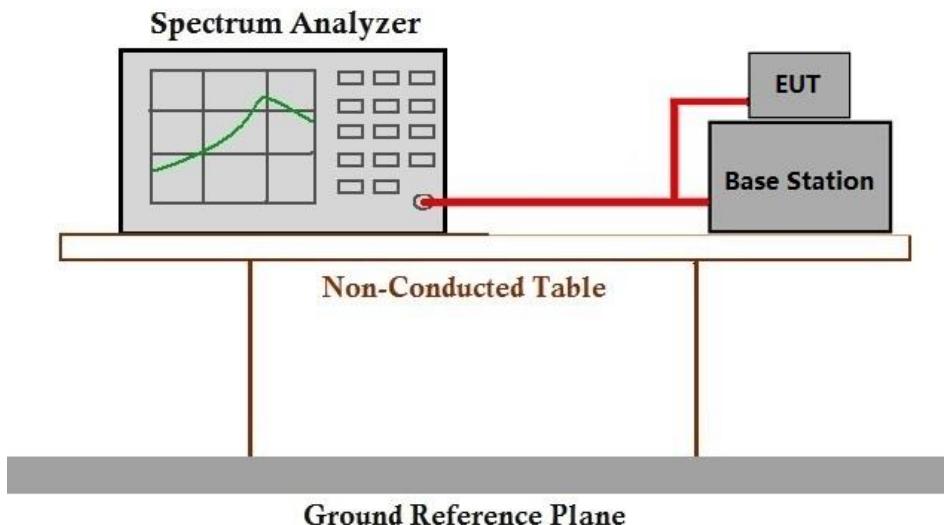
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 52.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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(g), §27.50(h), §27.50(m), §27.53(c), §27.53(n), §90.543(e), §96.41(e)

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

Limit: ≤ -13dBm (**LTE Band2,4,5,12,17, 42,66,71**)

For Band 13:

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;

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 operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For Band 14:

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

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 Band42,43,48:

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

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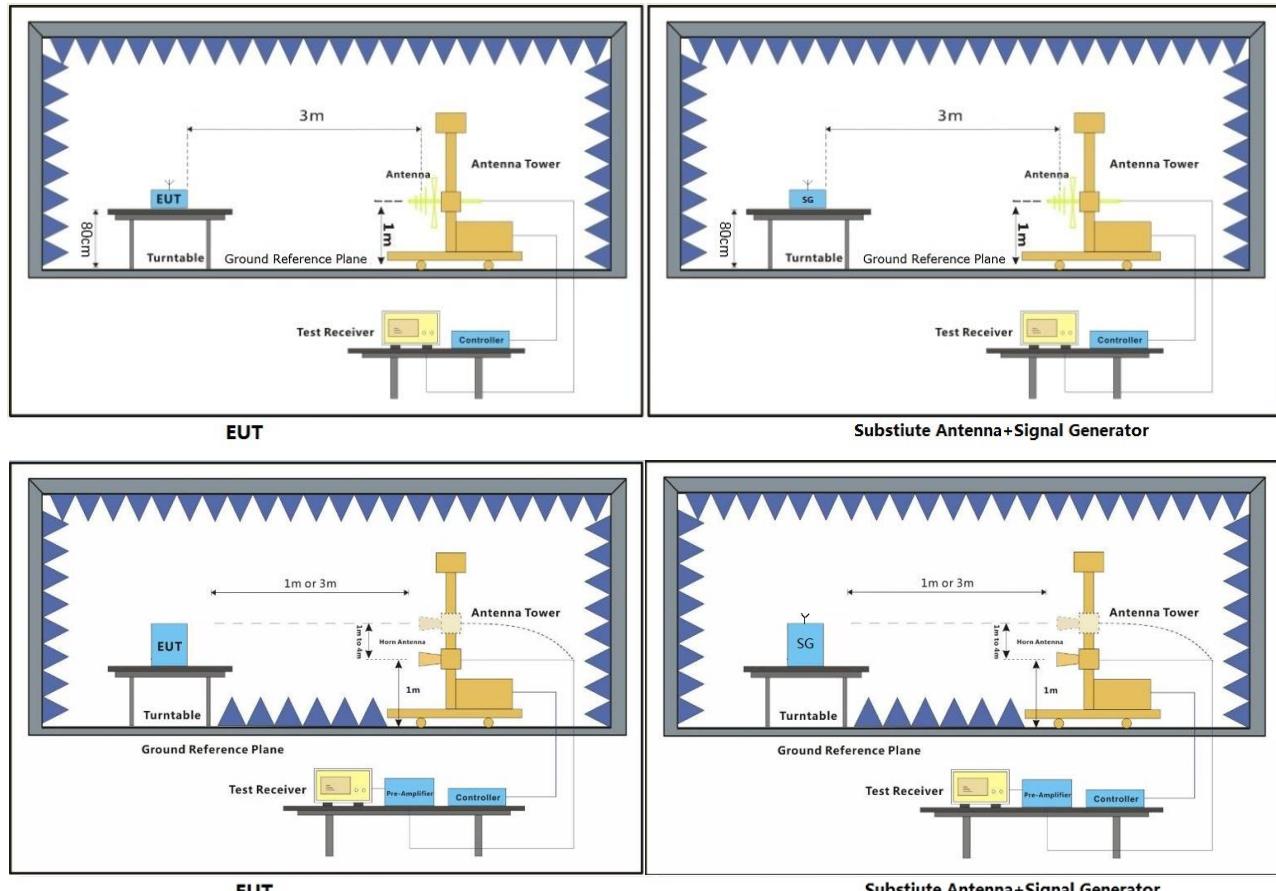
6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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.



LTE Band 2-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3700.14	-48.63	-13	-35.63	-53.51	3.29	8.17	Horizontal	Pass
5550.21	-45.84	-13	-32.84	-52.05	4.24	10.45	Horizontal	Pass
7400.28	-43.03	-13	-30.03	-49.97	4.19	11.13	Horizontal	Pass
3700.14	-48.69	-13	-35.69	-53.57	3.29	8.17	Vertical	Pass
5550.21	-44.9	-13	-31.9	-51.11	4.24	10.45	Vertical	Pass
7400.28	-42.69	-13	-29.69	-49.63	4.19	11.13	Vertical	Pass

LTE Band 2-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3758.74	-47.87	-13	-34.87	-52.75	3.29	8.17	Horizontal	Pass
5638.11	-45.41	-13	-32.41	-51.62	4.24	10.45	Horizontal	Pass
7517.48	-42.09	-13	-29.09	-49.615	4.215	11.74	Horizontal	Pass
3758.74	-47.7	-13	-34.7	-52.58	3.29	8.17	Vertical	Pass
5638.11	-45.76	-13	-32.76	-51.97	4.24	10.45	Vertical	Pass
7517.48	-42.98	-13	-29.98	-50.505	4.215	11.74	Vertical	Pass

LTE Band 2-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3817.34	-48.66	-13	-35.66	-53.54	3.29	8.17	Horizontal	Pass
5726.01	-47.08	-13	-34.08	-53.29	4.24	10.45	Horizontal	Pass
7634.68	-42.13	-13	-29.13	-49.655	4.215	11.74	Horizontal	Pass
3817.34	-48.56	-13	-35.56	-53.44	3.29	8.17	Vertical	Pass
5726.01	-46.76	-13	-33.76	-52.97	4.24	10.45	Vertical	Pass
7634.68	-41.91	-13	-28.91	-49.435	4.215	11.74	Vertical	Pass



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LTE Band 4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3420.14	-48.57	-13	-35.57	-52.53	2.96	6.92	Horizontal	Pass
5130.21	-45.18	-13	-32.18	-51.06	4.26	10.14	Horizontal	Pass
6840.28	-42.9	-13	-29.9	-49.185	4.205	10.49	Horizontal	Pass
3420.14	-49.2	-13	-36.2	-53.16	2.96	6.92	Vertical	Pass
5130.21	-47.06	-13	-34.06	-52.94	4.26	10.14	Vertical	Pass
6840.28	-42.23	-13	-29.23	-48.515	4.205	10.49	Vertical	Pass

LTE Band 4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3463.74	-49.23	-13	-36.23	-53.19	2.96	6.92	Horizontal	Pass
5195.61	-46.21	-13	-33.21	-52.09	4.26	10.14	Horizontal	Pass
6927.48	-43.3	-13	-30.3	-49.585	4.205	10.49	Horizontal	Pass
3463.74	-49.26	-13	-36.26	-53.22	2.96	6.92	Vertical	Pass
5195.61	-45.49	-13	-32.49	-51.37	4.26	10.14	Vertical	Pass
6927.48	-43.59	-13	-30.59	-49.875	4.205	10.49	Vertical	Pass

LTE Band 4-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3507.34	-50.48	-13	-37.48	-55.36	3.29	8.17	Horizontal	Pass
5261.01	-46.11	-13	-33.11	-51.99	4.26	10.14	Horizontal	Pass
7014.68	-43.84	-13	-30.84	-50.78	4.19	11.13	Horizontal	Pass
3507.34	-48.68	-13	-35.68	-53.56	3.29	8.17	Vertical	Pass
5261.01	-46.86	-13	-33.86	-52.74	4.26	10.14	Vertical	Pass
7014.68	-43.09	-13	-30.09	-50.03	4.19	11.13	Vertical	Pass

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LTE Band 5-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1648.14	-49.72	-13	-36.72	-53.605	1.995	5.88	Horizontal	Pass
2472.21	-52.81	-13	-39.81	-55.08	2.35	4.62	Horizontal	Pass
3296.28	-48.44	-13	-35.44	-52.4	2.96	6.92	Horizontal	Pass
1648.14	-51.27	-13	-38.27	-55.155	1.995	5.88	Vertical	Pass
2472.21	-52.35	-13	-39.35	-54.62	2.35	4.62	Vertical	Pass
3296.28	-49.72	-13	-36.72	-53.68	2.96	6.92	Vertical	Pass

LTE Band 5-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1671.74	-50.23	-13	-37.23	-54.115	1.995	5.88	Horizontal	Pass
2507.61	-52.76	-13	-39.76	-55.925	2.655	5.82	Horizontal	Pass
3343.48	-49.09	-13	-36.09	-53.05	2.96	6.92	Horizontal	Pass
1671.74	-50.71	-13	-37.71	-54.595	1.995	5.88	Vertical	Pass
2507.61	-52.78	-13	-39.78	-55.945	2.655	5.82	Vertical	Pass
3343.48	-48.23	-13	-35.23	-52.19	2.96	6.92	Vertical	Pass

LTE Band 5-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1695.34	-50.56	-13	-37.56	-54.445	1.995	5.88	Horizontal	Pass
2543.01	-53.04	-13	-40.04	-56.205	2.655	5.82	Horizontal	Pass
3390.68	-48.01	-13	-35.01	-51.97	2.96	6.92	Horizontal	Pass
1695.34	-51.41	-13	-38.41	-55.295	1.995	5.88	Vertical	Pass
2543.01	-52.48	-13	-39.48	-55.645	2.655	5.82	Vertical	Pass
3390.68	-47.96	-13	-34.96	-51.92	2.96	6.92	Vertical	Pass

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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Textile Center TCC Laboratory.

No.1 Workshop, M-10, Middle Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057
t (86-755) 26012053 f (86-755) 2610594
e www.sgsgroup.com.cn
c cn.doccheck@sgs.com
c cn.sgschina@sgs.com

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LTE Band 7-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5000.5	-44.73	-25	-19.73	-50.61	4.26	10.14	Horizontal	Pass
7500.75	-40.73	-25	-15.73	-48.255	4.215	11.74	Horizontal	Pass
10001	-38.54	-25	-13.54	-46.49	5.08	13.03	Horizontal	Pass
5000.5	-45.34	-25	-20.34	-51.22	4.26	10.14	Vertical	Pass
7500.75	-40.02	-25	-15.02	-47.545	4.215	11.74	Vertical	Pass
10001	-39.08	-25	-14.08	-47.03	5.08	13.03	Vertical	Pass

LTE Band 7-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5065.5	-45.11	-25	-20.11	-50.99	4.26	10.14	Horizontal	Pass
7598.25	-40.99	-25	-15.99	-48.515	4.215	11.74	Horizontal	Pass
10131	-37.51	-25	-12.51	-45.46	5.08	13.03	Horizontal	Pass
5065.5	-44.95	-25	-19.95	-50.83	4.26	10.14	Vertical	Pass
7598.25	-41.77	-25	-16.77	-49.295	4.215	11.74	Vertical	Pass
10131	-38.89	-25	-13.89	-46.84	5.08	13.03	Vertical	Pass

LTE Band 7-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5130.5	-46.03	-25	-21.03	-51.91	4.26	10.14	Horizontal	Pass
7695.75	-42.22	-25	-17.22	-49.745	4.215	11.74	Horizontal	Pass
10261	-37.84	-25	-12.84	-45.79	5.08	13.03	Horizontal	Pass
5130.5	-45.47	-25	-20.47	-51.35	4.26	10.14	Vertical	Pass
7695.75	-41.88	-25	-16.88	-49.405	4.215	11.74	Vertical	Pass
10261	-39.51	-25	-14.51	-47.46	5.08	13.03	Vertical	Pass



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LTE Band 12-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1398.14	-56.12	-13	-43.12	-57.19	1.64	2.71	Horizontal	Pass
2097.21	-54.65	-13	-41.65	-56.92	2.35	4.62	Horizontal	Pass
2796.28	-53.1	-13	-40.1	-56.265	2.655	5.82	Horizontal	Pass
1398.14	-57.37	-13	-44.37	-58.44	1.64	2.71	Vertical	Pass
2097.21	-54.15	-13	-41.15	-56.42	2.35	4.62	Vertical	Pass
2796.28	-53.01	-13	-40.01	-56.175	2.655	5.82	Vertical	Pass

LTE Band 12-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413.74	-58.35	-13	-45.35	-59.42	1.64	2.71	Horizontal	Pass
2120.61	-53.86	-13	-40.86	-56.13	2.35	4.62	Horizontal	Pass
2827.48	-52.7	-13	-39.7	-55.865	2.655	5.82	Horizontal	Pass
1413.74	-58.05	-13	-45.05	-59.12	1.64	2.71	Vertical	Pass
2120.61	-55.13	-13	-42.13	-57.4	2.35	4.62	Vertical	Pass
2827.48	-52.13	-13	-39.13	-55.295	2.655	5.82	Vertical	Pass

LTE Band 12-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1429.34	-55.78	-13	-42.78	-56.85	1.64	2.71	Horizontal	Pass
2144.01	-56.36	-13	-43.36	-58.63	2.35	4.62	Horizontal	Pass
2858.68	-52.11	-13	-39.11	-55.275	2.655	5.82	Horizontal	Pass
1429.34	-57.09	-13	-44.09	-58.16	1.64	2.71	Vertical	Pass
2144.01	-55.46	-13	-42.46	-57.73	2.35	4.62	Vertical	Pass
2858.68	-52.52	-13	-39.52	-55.685	2.655	5.82	Vertical	Pass



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LTE Band 13-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1554.5	-48.59	-13	-35.59	-52.475	1.995	5.88	Horizontal	Pass
2331.75	-56.58	-13	-43.58	-58.85	2.35	4.62	Horizontal	Pass
3109	-50.95	-13	-37.95	-54.91	2.96	6.92	Horizontal	Pass
1554.5	-44.58	-13	-31.58	-48.465	1.995	5.88	Vertical	Pass
2331.75	-57.24	-13	-44.24	-59.51	2.35	4.62	Vertical	Pass
3109	-50.2	-13	-37.2	-54.16	2.96	6.92	Vertical	Pass

LTE Band 13-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1559.5	-45.45	-40	-5.45	-49.335	1.995	5.88	Horizontal	Pass
2339.25	-56.28	-13	-43.28	-58.55	2.35	4.62	Horizontal	Pass
3119	-50.29	-13	-37.29	-54.25	2.96	6.92	Horizontal	Pass
1559.5	-47.42	-40	-7.42	-51.305	1.995	5.88	Vertical	Pass
2339.25	-57.11	-13	-44.11	-59.38	2.35	4.62	Vertical	Pass
3119	-50.19	-13	-37.19	-54.15	2.96	6.92	Vertical	Pass

LTE Band 13-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1564.5	-55.02	-40	-15.02	-58.905	1.995	5.88	Horizontal	Pass
2346.75	-55.96	-13	-42.96	-58.23	2.35	4.62	Horizontal	Pass
3129	-50.16	-13	-37.16	-54.12	2.96	6.92	Horizontal	Pass
1564.5	-45.56	-40	-5.56	-49.445	1.995	5.88	Vertical	Pass
2346.75	-55.97	-13	-42.97	-58.24	2.35	4.62	Vertical	Pass
3129	-49.86	-13	-36.86	-53.82	2.96	6.92	Vertical	Pass

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LTE Band 14-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1576.5	-41.05	-40	-1.05	-44.935	1.995	5.88	Horizontal	Pass
2364.75	-54.1	-13	-41.1	-56.37	2.35	4.62	Horizontal	Pass
3153	-49.62	-13	-36.62	-53.58	2.96	6.92	Horizontal	Pass
1576.5	-50.22	-40	-10.22	-54.105	1.995	5.88	Vertical	Pass
2364.75	-56.43	-13	-43.43	-58.7	2.35	4.62	Vertical	Pass
3153	-49.77	-13	-36.77	-53.73	2.96	6.92	Vertical	Pass

LTE Band 14-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1581.5	-46.04	-40	-6.04	-49.925	1.995	5.88	Horizontal	Pass
2372.25	-55.35	-13	-42.35	-57.62	2.35	4.62	Horizontal	Pass
3163	-49.37	-13	-36.37	-53.33	2.96	6.92	Horizontal	Pass
1581.5	-40.62	-40	-0.62	-44.505	1.995	5.88	Vertical	Pass
2372.25	-56.9	-13	-43.9	-59.17	2.35	4.62	Vertical	Pass
3163	-49.31	-13	-36.31	-53.27	2.96	6.92	Vertical	Pass

LTE Band 14-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1586.5	-41.5	-40	-1.5	-45.385	1.995	5.88	Horizontal	Pass
2379.75	-54.74	-13	-41.74	-57.01	2.35	4.62	Horizontal	Pass
3173	-48.31	-13	-35.31	-52.27	2.96	6.92	Horizontal	Pass
1586.5	-48.38	-40	-8.38	-52.265	1.995	5.88	Vertical	Pass
2379.75	-56.06	-13	-43.06	-58.33	2.35	4.62	Vertical	Pass
3173	-49.38	-13	-36.38	-53.34	2.96	6.92	Vertical	Pass

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LTE Band 17-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1408.5	-57.2	-13	-44.2	-58.27	1.64	2.71	Horizontal	Pass
2112.75	-54.33	-13	-41.33	-56.6	2.35	4.62	Horizontal	Pass
2817	-51.34	-13	-38.34	-54.505	2.655	5.82	Horizontal	Pass
1408.5	-56.23	-13	-43.23	-57.3	1.64	2.71	Vertical	Pass
2112.75	-55.5	-13	-42.5	-57.77	2.35	4.62	Vertical	Pass
2817	-50.63	-13	-37.63	-53.795	2.655	5.82	Vertical	Pass

LTE Band 17-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1415.5	-57.41	-13	-44.41	-58.48	1.64	2.71	Horizontal	Pass
2123.25	-55.59	-13	-42.59	-57.86	2.35	4.62	Horizontal	Pass
2831	-50.73	-13	-37.73	-53.895	2.655	5.82	Horizontal	Pass
1415.5	-55.8	-13	-42.8	-56.87	1.64	2.71	Vertical	Pass
2123.25	-55.12	-13	-42.12	-57.39	2.35	4.62	Vertical	Pass
2831	-51.06	-13	-38.06	-54.225	2.655	5.82	Vertical	Pass

LTE Band 17-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1422.5	-57.53	-13	-44.53	-58.6	1.64	2.71	Horizontal	Pass
2133.75	-54.02	-13	-41.02	-56.29	2.35	4.62	Horizontal	Pass
2845	-51.07	-13	-38.07	-54.235	2.655	5.82	Horizontal	Pass
1422.5	-56.92	-13	-43.92	-57.99	1.64	2.71	Vertical	Pass
2133.75	-54.75	-13	-41.75	-57.02	2.35	4.62	Vertical	Pass
2845	-51.03	-13	-38.03	-54.195	2.655	5.82	Vertical	Pass



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LTE Band 25-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3700.14	-47.09	-13	-34.09	-51.97	3.29	8.17	Horizontal	Pass
5550.21	-44.34	-13	-31.34	-50.55	4.24	10.45	Horizontal	Pass
7400.28	-41.84	-13	-28.84	-48.78	4.19	11.13	Horizontal	Pass
3700.14	-47.32	-13	-34.32	-52.2	3.29	8.17	Vertical	Pass
5550.21	-44	-13	-31	-50.21	4.24	10.45	Vertical	Pass
7400.28	-41.67	-13	-28.67	-48.61	4.19	11.13	Vertical	Pass

LTE Band 25-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3763.74	-46.31	-13	-33.31	-51.19	3.29	8.17	Horizontal	Pass
5645.61	-44.84	-13	-31.84	-51.05	4.24	10.45	Horizontal	Pass
7527.48	-40.37	-13	-27.37	-47.895	4.215	11.74	Horizontal	Pass
3763.74	-46.22	-13	-33.22	-51.1	3.29	8.17	Vertical	Pass
5645.61	-44.77	-13	-31.77	-50.98	4.24	10.45	Vertical	Pass
7527.48	-40.12	-13	-27.12	-47.645	4.215	11.74	Vertical	Pass

LTE Band 25-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3827.34	-46.48	-13	-33.48	-51.36	3.29	8.17	Horizontal	Pass
5741.01	-46.01	-13	-33.01	-52.22	4.24	10.45	Horizontal	Pass
7654.68	-41.8	-13	-28.8	-49.325	4.215	11.74	Horizontal	Pass
3827.34	-47.04	-13	-34.04	-51.92	3.29	8.17	Vertical	Pass
5741.01	-45.77	-13	-32.77	-51.98	4.24	10.45	Vertical	Pass
7654.68	-41.76	-13	-28.76	-49.285	4.215	11.74	Vertical	Pass



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LTE Band 38-Low channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5140.5	-44.57	-25	-19.57	-50.45	4.26	10.14	Horizontal	Pass
7710.75	-42.17	-25	-17.17	-49.695	4.215	11.74	Horizontal	Pass
10281	-38.34	-25	-13.34	-46.29	5.08	13.03	Horizontal	Pass
5140.5	-45.15	-25	-20.15	-51.03	4.26	10.14	Vertical	Pass
7710.75	-41.46	-25	-16.46	-48.985	4.215	11.74	Vertical	Pass
10281	-39.92	-25	-14.92	-47.87	5.08	13.03	Vertical	Pass

LTE Band 38-Middle channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5185.5	-45.52	-25	-20.52	-51.4	4.26	10.14	Horizontal	Pass
7778.25	-41.35	-25	-16.35	-48.875	4.215	11.74	Horizontal	Pass
10371	-38.84	-25	-13.84	-46.79	5.08	13.03	Horizontal	Pass
5185.5	-45.48	-25	-20.48	-51.36	4.26	10.14	Vertical	Pass
7778.25	-41.75	-25	-16.75	-49.275	4.215	11.74	Vertical	Pass
10371	-40.37	-25	-15.37	-48.32	5.08	13.03	Vertical	Pass

LTE Band 38-High channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5230.5	-42.94	-25	-17.94	-48.82	4.26	10.14	Horizontal	Pass
7845.75	-42.52	-25	-17.52	-50.045	4.215	11.74	Horizontal	Pass
10461	-40.73	-25	-15.73	-48.68	5.08	13.03	Horizontal	Pass
5230.5	-43.02	-25	-18.02	-48.9	4.26	10.14	Vertical	Pass
7845.75	-42.38	-25	-17.38	-49.905	4.215	11.74	Vertical	Pass
10461	-39.92	-25	-14.92	-47.87	5.08	13.03	Vertical	Pass



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17050-360:2004 | ISO/IEC 17050-361:2004 | ISO/IEC 17050-362:2004 | ISO/IEC 17050-363:2004 | ISO/IEC 17050-364:2004 | ISO/IE



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LTE Band 41-Low channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4997	-44.88	-25	-19.88	-50.34	3.94	9.4	Horizontal	Pass
7495.5	-41.31	-25	-16.31	-48.25	4.19	11.13	Horizontal	Pass
9994	-38.31	-25	-13.31	-46.725	4.825	13.24	Horizontal	Pass
4997	-44.84	-25	-19.84	-50.3	3.94	9.4	Vertical	Pass
7495.5	-41.85	-25	-16.85	-48.79	4.19	11.13	Vertical	Pass
9994	-38.3	-25	-13.3	-46.715	4.825	13.24	Vertical	Pass

LTE Band 41-Middle channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5186	-44.91	-25	-19.91	-50.79	4.26	10.14	Horizontal	Pass
7779	-41.52	-25	-16.52	-49.045	4.215	11.74	Horizontal	Pass
10372	-39.98	-25	-14.98	-47.93	5.08	13.03	Horizontal	Pass
5186	-44.6	-25	-19.6	-50.48	4.26	10.14	Vertical	Pass
7779	-41.62	-25	-16.62	-49.145	4.215	11.74	Vertical	Pass
10372	-38.95	-25	-13.95	-46.9	5.08	13.03	Vertical	Pass

LTE Band 41-High channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5375	-44.58	-25	-19.58	-50.46	4.26	10.14	Horizontal	Pass
8062.5	-39.66	-25	-14.66	-47.75	4.24	12.33	Horizontal	Pass
10750	-38.19	-25	-13.19	-46.235	5.075	13.12	Horizontal	Pass
5375	-45.22	-25	-20.22	-51.1	4.26	10.14	Vertical	Pass
8062.5	-39.19	-25	-14.19	-47.28	4.24	12.33	Vertical	Pass
10750	-38.11	-25	-13.11	-46.155	5.075	13.12	Vertical	Pass

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LTE Band 42(3450-3550)-Low channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
6901.68	-43.03	-13	-30.03	-49.315	4.205	10.49	Horizontal	Pass
10352.52	-38.72	-13	-25.72	-46.67	5.08	13.03	Horizontal	Pass
13803.36	-33.86	-13	-20.86	-42.825	5.225	14.19	Horizontal	Pass
6901.68	-43.45	-13	-30.45	-49.735	4.205	10.49	Vertical	Pass
10352.52	-39.77	-13	-26.77	-47.72	5.08	13.03	Vertical	Pass
13803.36	-34.17	-13	-21.17	-43.135	5.225	14.19	Vertical	Pass

LTE Band 42(3450-3550)-Middle channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
6986.68	-43.4	-13	-30.4	-49.685	4.205	10.49	Horizontal	Pass
10480.02	-39.01	-13	-26.01	-46.96	5.08	13.03	Horizontal	Pass
13973.36	-35.11	-13	-22.11	-44.075	5.225	14.19	Horizontal	Pass
6986.68	-43.11	-13	-30.11	-49.395	4.205	10.49	Vertical	Pass
10480.02	-38.45	-13	-25.45	-46.4	5.08	13.03	Vertical	Pass
13973.36	-35.29	-13	-22.29	-44.255	5.225	14.19	Vertical	Pass

LTE Band 42(3450-3550)-High channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7071.68	-41.23	-13	-28.23	-48.17	4.19	11.13	Horizontal	Pass
10607.52	-36.42	-13	-23.42	-44.465	5.075	13.12	Horizontal	Pass
14143.36	-34.37	-13	-21.37	-44.03	4.82	14.48	Horizontal	Pass
7071.68	-41.13	-13	-28.13	-48.07	4.19	11.13	Vertical	Pass
10607.52	-36.98	-13	-23.98	-45.025	5.075	13.12	Vertical	Pass
14143.36	-34.57	-13	-21.57	-44.23	4.82	14.48	Vertical	Pass



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LTE Band 42(3550-3600)-Low channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7101.68	-48.75	-40	-8.75	-55.69	4.19	11.13	Horizontal	Pass
10652.52	-46.59	-40	-6.59	-54.635	5.075	13.12	Horizontal	Pass
14203.36	-43.18	-40	-3.18	-52.84	4.82	14.48	Horizontal	Pass
7101.68	-49.25	-40	-9.25	-56.19	4.19	11.13	Vertical	Pass
10652.52	-47.18	-40	-7.18	-55.225	5.075	13.12	Vertical	Pass
14203.36	-43.38	-40	-3.38	-53.04	4.82	14.48	Vertical	Pass

LTE Band 42(3550-3600)-Middle channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7136.68	-49.25	-40	-9.25	-56.19	4.19	11.13	Horizontal	Pass
10705.02	-47.21	-40	-7.21	-55.255	5.075	13.12	Horizontal	Pass
14273.36	-44.36	-40	-4.36	-54.02	4.82	14.48	Horizontal	Pass
7136.68	-48.97	-40	-8.97	-55.91	4.19	11.13	Vertical	Pass
10705.02	-47.64	-40	-7.64	-55.685	5.075	13.12	Vertical	Pass
14273.36	-43.51	-40	-3.51	-53.17	4.82	14.48	Vertical	Pass

LTE Band 42(3550-3600)-High channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7171.68	-48.96	-40	-8.96	-55.9	4.19	11.13	Horizontal	Pass
10757.52	-47.66	-40	-7.66	-55.705	5.075	13.12	Horizontal	Pass
14343.36	-43.91	-40	-3.91	-53.57	4.82	14.48	Horizontal	Pass
7171.68	-49.21	-40	-9.21	-56.15	4.19	11.13	Vertical	Pass
10757.52	-47.33	-40	-7.33	-55.375	5.075	13.12	Vertical	Pass
14343.36	-44.56	-40	-4.56	-54.22	4.82	14.48	Vertical	Pass

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LTE Band 43(3600-3700)-Low channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7201.68	-48.95	-40	-8.95	-55.89	4.19	11.13	Horizontal	Pass
10802.52	-47.33	-40	-7.33	-55.375	5.075	13.12	Horizontal	Pass
14403.36	-44.52	-40	-4.52	-54.18	4.82	14.48	Horizontal	Pass
7201.68	-49.15	-40	-9.15	-56.09	4.19	11.13	Vertical	Pass
10802.52	-47.55	-40	-7.55	-55.595	5.075	13.12	Vertical	Pass
14403.36	-44.19	-40	-4.19	-53.85	4.82	14.48	Vertical	Pass

LTE Band 43(3600-3700)-Middle channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7286.68	-49.25	-40	-9.25	-56.19	4.19	11.13	Horizontal	Pass
10930.02	-47.52	-40	-7.52	-55.565	5.075	13.12	Horizontal	Pass
14573.36	-44.19	-40	-4.19	-53.42	5.19	14.42	Horizontal	Pass
7286.68	-48.75	-40	-8.75	-55.69	4.19	11.13	Vertical	Pass
10930.02	-47.34	-40	-7.34	-55.385	5.075	13.12	Vertical	Pass
14573.36	-43.94	-40	-3.94	-53.17	5.19	14.42	Vertical	Pass

LTE Band 43(3600-3700)-High channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7371.68	-48.55	-40	-8.55	-55.49	4.19	11.13	Horizontal	Pass
11057.52	-46.87	-40	-6.87	-55.07	5.07	13.27	Horizontal	Pass
14743.36	-43.52	-40	-3.52	-52.75	5.19	14.42	Horizontal	Pass
7371.68	-50.11	-40	-10.11	-57.05	4.19	11.13	Vertical	Pass
11057.52	-47.33	-40	-7.33	-55.53	5.07	13.27	Vertical	Pass
14743.36	-43.82	-40	-3.82	-53.05	5.19	14.42	Vertical	Pass

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LTE Band 43(3700-3800)-Low channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7401.68	-37.5	-13	-24.5	-44.44	4.19	11.13	Horizontal	Pass
11102.52	-37.52	-13	-24.52	-45.72	5.07	13.27	Horizontal	Pass
14803.36	-31.6	-13	-18.6	-40.83	5.19	14.42	Horizontal	Pass
7401.68	-38.16	-13	-25.16	-45.1	4.19	11.13	Vertical	Pass
11102.52	-37.88	-13	-24.88	-46.08	5.07	13.27	Vertical	Pass
14803.36	-30.89	-13	-17.89	-40.12	5.19	14.42	Vertical	Pass

LTE Band 43(3700-3800)-Middle channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7486.68	-40.39	-13	-27.39	-47.33	4.19	11.13	Horizontal	Pass
11230.02	-35.83	-13	-22.83	-44.03	5.07	13.27	Horizontal	Pass
14973.36	-32.11	-13	-19.11	-41.34	5.19	14.42	Horizontal	Pass
7486.68	-40.23	-13	-27.23	-47.17	4.19	11.13	Vertical	Pass
11230.02	-35.32	-13	-22.32	-43.52	5.07	13.27	Vertical	Pass
14973.36	-32.18	-13	-19.18	-41.41	5.19	14.42	Vertical	Pass

LTE Band 43(3700-3800)-High channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7571.68	-40.4	-13	-27.4	-47.925	4.215	11.74	Horizontal	Pass
11357.52	-34.68	-13	-21.68	-42.88	5.07	13.27	Horizontal	Pass
15143.36	-30.49	-13	-17.49	-39.45	5.56	14.52	Horizontal	Pass
7571.68	-39.66	-13	-26.66	-47.185	4.215	11.74	Vertical	Pass
11357.52	-34.16	-13	-21.16	-42.36	5.07	13.27	Vertical	Pass
15143.36	-30.85	-13	-17.85	-39.81	5.56	14.52	Vertical	Pass

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LTE Band 48-Low channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7100.5	-45.96	-40	-5.96	-52.9	4.19	11.13	Horizontal	Pass
10650.75	-47.02	-40	-7.02	-55.065	5.075	13.12	Horizontal	Pass
14201	-44.7	-40	-4.7	-54.36	4.82	14.48	Horizontal	Pass
7100.5	-46.13	-40	-6.13	-53.07	4.19	11.13	Vertical	Pass
10650.75	-46.6	-40	-6.6	-54.645	5.075	13.12	Vertical	Pass
14201	-44.21	-40	-4.21	-53.87	4.82	14.48	Vertical	Pass

LTE Band 48-Middle channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7245.5	-46.21	-40	-6.21	-53.15	4.19	11.13	Horizontal	Pass
10868.25	-45.13	-40	-5.13	-53.175	5.075	13.12	Horizontal	Pass
14491	-44.93	-40	-4.93	-54.59	4.82	14.48	Horizontal	Pass
7245.5	-46.7	-40	-6.7	-53.64	4.19	11.13	Vertical	Pass
10868.25	-45.64	-40	-5.64	-53.685	5.075	13.12	Vertical	Pass
14491	-45.07	-40	-5.07	-54.73	4.82	14.48	Vertical	Pass

LTE Band 48-High channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7390.5	-46.17	-40	-6.17	-53.11	4.19	11.13	Horizontal	Pass
11085.75	-44.94	-40	-4.94	-53.14	5.07	13.27	Horizontal	Pass
14781	-44.67	-40	-4.67	-53.9	5.19	14.42	Horizontal	Pass
7390.5	-47.16	-40	-7.16	-54.1	4.19	11.13	Vertical	Pass
11085.75	-44.59	-40	-4.59	-52.79	5.07	13.27	Vertical	Pass
14781	-44.76	-40	-4.76	-53.99	5.19	14.42	Vertical	Pass

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LTE Band 66-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3420.14	-45.43	-13	-32.43	-49.39	2.96	6.92	Horizontal	Pass
5130.21	-45.61	-13	-32.61	-51.49	4.26	10.14	Horizontal	Pass
6840.28	-43.11	-13	-30.11	-49.395	4.205	10.49	Horizontal	Pass
3420.14	-46.54	-13	-33.54	-50.5	2.96	6.92	Vertical	Pass
5130.21	-45.28	-13	-32.28	-51.16	4.26	10.14	Vertical	Pass
6840.28	-43.09	-13	-30.09	-49.375	4.205	10.49	Vertical	Pass

LTE Band 66-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3488.74	-47.52	-13	-34.52	-51.48	2.96	6.92	Horizontal	Pass
5233.11	-46.16	-13	-33.16	-52.04	4.26	10.14	Horizontal	Pass
6977.48	-41.98	-13	-28.98	-48.265	4.205	10.49	Horizontal	Pass
3488.74	-47.51	-13	-34.51	-51.47	2.96	6.92	Vertical	Pass
5233.11	-45.32	-13	-32.32	-51.2	4.26	10.14	Vertical	Pass
6977.48	-42.6	-13	-29.6	-48.885	4.205	10.49	Vertical	Pass

LTE Band 66-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3557.34	-47	-13	-34	-51.88	3.29	8.17	Horizontal	Pass
5336.01	-45.12	-13	-32.12	-51	4.26	10.14	Horizontal	Pass
7114.68	-40.71	-13	-27.71	-47.65	4.19	11.13	Horizontal	Pass
3557.34	-46.58	-13	-33.58	-51.46	3.29	8.17	Vertical	Pass
5336.01	-44.7	-13	-31.7	-50.58	4.26	10.14	Vertical	Pass
7114.68	-42.11	-13	-29.11	-49.05	4.19	11.13	Vertical	Pass



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LTE Band 71-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1326.5	-52.24	-13	-39.24	-53.31	1.64	2.71	Horizontal	Pass
1989.75	-54.33	-13	-41.33	-58.215	1.995	5.88	Horizontal	Pass
2653	-52.51	-13	-39.51	-55.675	2.655	5.82	Horizontal	Pass
1326.5	-52.68	-13	-39.68	-53.75	1.64	2.71	Vertical	Pass
1989.75	-54.19	-13	-41.19	-58.075	1.995	5.88	Vertical	Pass
2653	-51.27	-13	-38.27	-54.435	2.655	5.82	Vertical	Pass

LTE Band 71-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1356.5	-56.06	-13	-43.06	-57.13	1.64	2.71	Horizontal	Pass
2034.75	-55.3	-13	-42.3	-57.57	2.35	4.62	Horizontal	Pass
2713	-52.9	-13	-39.9	-56.065	2.655	5.82	Horizontal	Pass
1356.5	-56.15	-13	-43.15	-57.22	1.64	2.71	Vertical	Pass
2034.75	-54.71	-13	-41.71	-56.98	2.35	4.62	Vertical	Pass
2713	-52.47	-13	-39.47	-55.635	2.655	5.82	Vertical	Pass

LTE Band 71-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1386.5	-53.35	-13	-40.35	-54.42	1.64	2.71	Horizontal	Pass
2079.75	-55.16	-13	-42.16	-57.43	2.35	4.62	Horizontal	Pass
2773	-52.66	-13	-39.66	-55.825	2.655	5.82	Horizontal	Pass
1386.5	-53.97	-13	-40.97	-55.04	1.64	2.71	Vertical	Pass
2079.75	-54.72	-13	-41.72	-56.99	2.35	4.62	Vertical	Pass
2773	-50.89	-13	-37.89	-54.055	2.655	5.82	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

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

Limit: $\leq \pm 2.5\text{ppm}$.

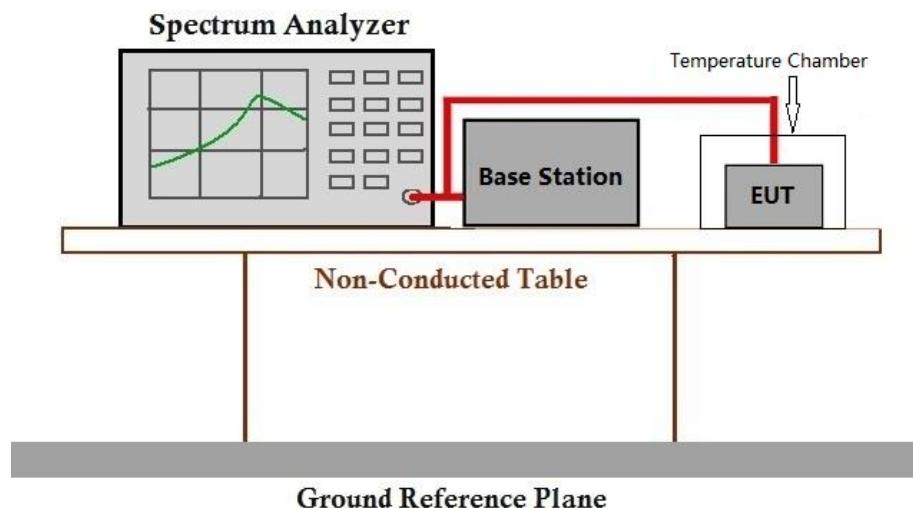
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 52.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2312004019AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2312004019AT

- End of the Report -



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