TEST REPORT

Application No.:	SZCR2308002542AT
Applicant:	Grab Technology LLC
Address of Applicant:	113 Cherry ST PMB 78120 Seattle, WA 98104 USA
Manufacturer:	Grabtaxi Holdings Pte. Ltd.
Address of Manufacturer:	3 Media Cl, Singapore 138498
Factory:	SKY LIGHT Electronic (ShenZhen) Limited
Address of Factory:	No. 8 & 9 Building, AnTuoShan High-tech Industrial Area, Xinsha Road, ShaJing, Bao'An, Shenzhen, China.
Equipment Under Test (EUT):	
EUT Name:	KartaCam 2
Model No.:	GKS200
FCC ID:	2BB5A-GKS200
Standard(s) :	47 CFR Part 2 47 CFR Part 22 subpart H 47 CFR Part 24 subpart E 47 CFR Part 27 subpart C 47 CFR Part 90 subpart S
Date of Receipt:	2023-08-07
Date of Test:	2023-08-11 to 2023-09-25
Date of Issue:	2023-09-25
Test Result:	**Pass**

* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2023-09-25		Original

Authorized for issue by:				
		Leo Lai **Leo Lai/Project Engineer**		
		Eric Fu **Eric Fu/Reviewer**		

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) §90.635	ERP≤ 7W(LTE Band 5&12&13&26b) EIRP≤ 2W(LTE Band 2&25) EIRP≤ 1W(LTE Band 4) EIRP≤ 2W(LTE Band 7&38&41) <100 W (Band 26a)	PASS
Peak-Average Ratio	§22.913 §24.232	≤13dB	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §22.917 §24.238 §27.53(a) § 90.691(a)	≤ -13dBm (LTE Band2,4,5,12,13,25,26) Refer to clause 6.4 for LTE Band7&38&41	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917 §24.238 §27.53 § 90.691(a)	≤ -13dBm (LTE Band2,4,5,12,13,25,26) Refer to clause 6.4 for LTE Band7&38&41	PASS
Field strength of spurious radiation	§2.1051 §22.917 §24.238 §27.53 § 90.691(a)	≤ -13dBm (LTE Band2,4,5,12,13,25,26) Refer to clause 6.4 for LTE Band7&38&41	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54 §90.213	≤ ±2.5ppm.	PASS

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3 Contents

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.7V from internal battery and which can be charged by DC 12V or Type USB port with 5V/3A,9V/3A,12V/3A,15V/3A
Sample Type:	Portable production
LTE Operation Frequency Band:	LTE FDD Band 2,4,5,7,12,13,25,26,38,41
Modulation Type:	QPSK, 16QAM
LTE Power Class:	Level 3
Antenna Type:	PIFA Antenna
Antenna Gain:	B2: 2.76dBi, B4: 5dBi, B5: 2.13dBi, B7: 2.59dBi, B12: 3.78dBi, B13: 2.61dBi, B25: 2.76dBi, B26: 2.13dBi, B38: 3.68dBi, B41: 5.98dBi

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	ASUS	A299-200150U-US	REF. No.SEA05F01C
Type C Cable	Baseus	PD100W	REF. No.SEA07B002
RF Cable	SGS	N/A(cable loss: -1.1dBi)	REF. No.SEA05C010
RF Cable	SGS	N/A(cable loss: -1.1dBi)	REF. No.SEA05C011

4.3 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

Test Mode	Bandwidth	RF Channel		
		Low (L)	Middle (M)	High (H)
LTE BAND12	1.4MHz	699.7 MHz	707.5 MHz	715.3 MHz
	3MHz	700.5 MHz	707.5 MHz	714.5 MHz
	5MHz	701.5 MHz	707.5 MHz	713.5 MHz
	10MHz	704 MHz	707.5 MHz	711 MHz

Test Mode	Bandwidth	RF Channel		
		Low (L)	Middle (M)	High (H)
LTE BAND 13	5MHz	779.5 MHz	782 MHz	784.5 MHz
	10MHz	782 MHz	782 MHz	782 MHz

Test Mode	Bandwidth	RF Channel		
		Low (L)	Middle (M)	High (H)
LTE BAND25	1.4MHz	1850.7 MHz	1882.5 MHz	1914.3 MHz
	3MHz	1851.5 MHz	1882.5 MHz	1913.5 MHz
	5MHz	1852.5 MHz	1882.5 MHz	1912.3 MHz

	10MHz	1855 MHz	1882.5 MHz	1910 MHz
	15MHz	1857.5 MHz	1882.5 MHz	1907.3 MHz
	20MHz	1860 MHz	1882.5 MHz	1905 MHz

Test Mode	Bandwidth	RF Channel		
		Low (L)	Middle (M)	High (H)
LTE BAND26 (814-824)	1.4MHz	814.7 MHz	819 MHz	823.3 MHz
	3MHz	815.5 MHz	819 MHz	822.5 MHz
	5MHz	816.5 MHz	819 MHz	821.5 MHz
	10MHz	819 MHz	819 MHz	819 MHz

Test Mode	Bandwidth	RF Channel		
		Low (L)	Middle (M)	High (H)
LTE BAND26 (824-849)	1.4MHz	824.7 MHz	836.5 MHz	848.3 MHz
	3MHz	825.5 MHz	836.5 MHz	847.5 MHz
	5MHz	826.5 MHz	836.5 MHz	846.5 MHz
	10MHz	829 MHz	836.5 MHz	844 MHz
	15MHz	831.5 MHz	836.5 MHz	841.5 MHz

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

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4.4 Test Environment

Environment Parameter	Selected Values During Tests	
Temperature:	TL	-10°C
	TN	+20°C
	TH	+45°C
Voltage:	VL	3.3 Vdc
	VN	3.7 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

4.5 Description of Support Units

The EUT has been tested independent unit.

4.6 Measurement Uncertainty

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

4.7 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.

4.8 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.

4.9 Deviation from Standards

None

4.10 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
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023/03/21	2024/03/20
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2023/07/11	2024/07/10
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023/07/11	2024/07/10
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2023/03/28	2024/03/27
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2023/03/21	2024/03/20

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	2023/07/11	2024/07/10
Pre-amplifier	HP	8447D	SEM005-02	2023/07/11	2024/07/10
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2023/07/11	2024/07/10
Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2023/07/11	2024/07/10
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022/08/07	2025/08/06
Signal Generator(9kHz-40GHz)	N5173B	MY53270267	Agilent	2023/07/11	2024/07/10
Pre-amplifier	HP	8447D	SEM005-02	2023/07/11	2024/07/10
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	2023/07/11	2024/07/10
Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2023/07/11	2024/07/10

Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023/07/11	2024/07/10
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2023/07/11	2024/07/10
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2023/06/25	202606/24
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024/03/28	2024/03/27

General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022/09/04 2023/09/03	2023/09/03 2024/09/02
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022/09/04 2023/09/03	2023/09/03 2024/09/02
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023/03/23	2024/03/22

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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), §90.635

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

Limit: ERP≤ 7W(LTE Band 5&12&13&26b)
EIRP≤ 2W(LTE Band 2&25)
EIRP≤ 1W(LTE Band 4)
EIRP≤ 2W(LTE Band 7&38&41)
<100 W (Band 26a)

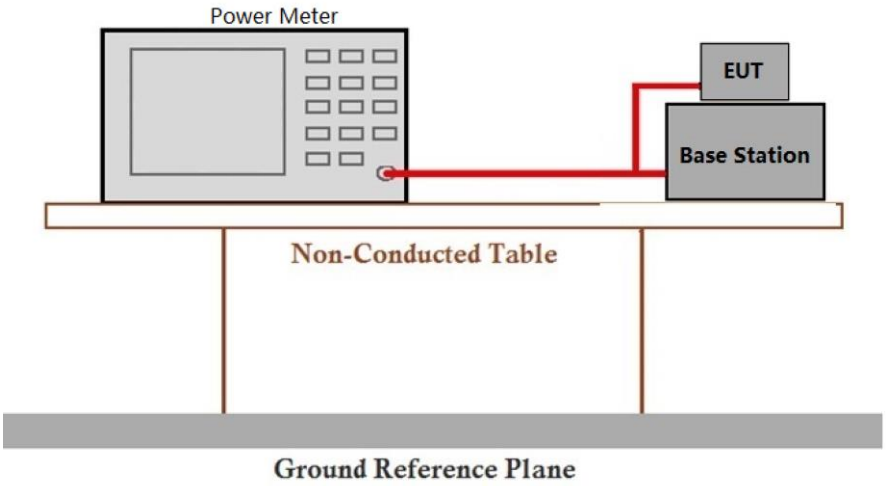
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 57.2 % 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 RF power test data.

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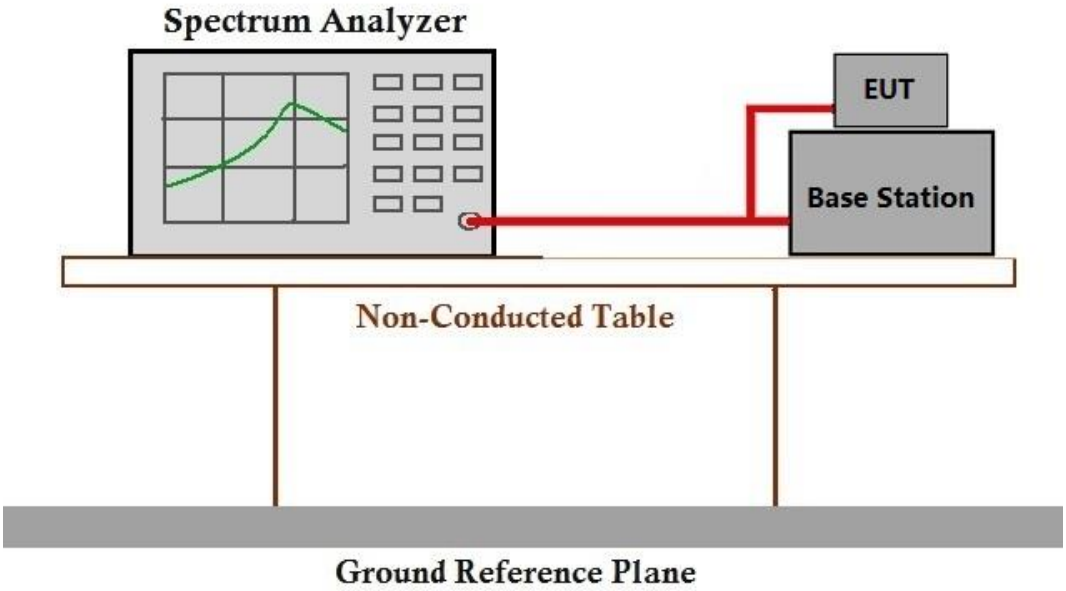
6.2 Peak-Average Ratio

Test Requirement: §22.913,§24.232
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 57.2 % 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 PAR test data.

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

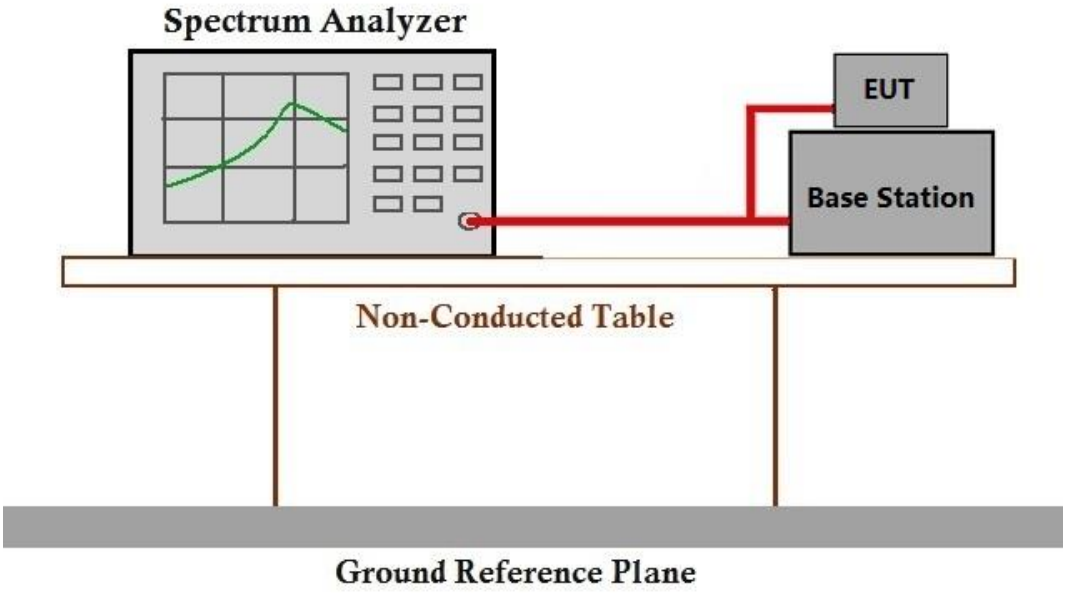
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 57.2 % 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 bandwidth test data.

6.4 Band Edge Compliance

Test Requirement: §2.1051,§22.917,§24.238,§27.50(m),§27.53,§90.691

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

Limit: ≤ -13dBm (**LTE Band2,4,5,12,13,25,26)**

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 that 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 **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.

For **Band26a**:

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

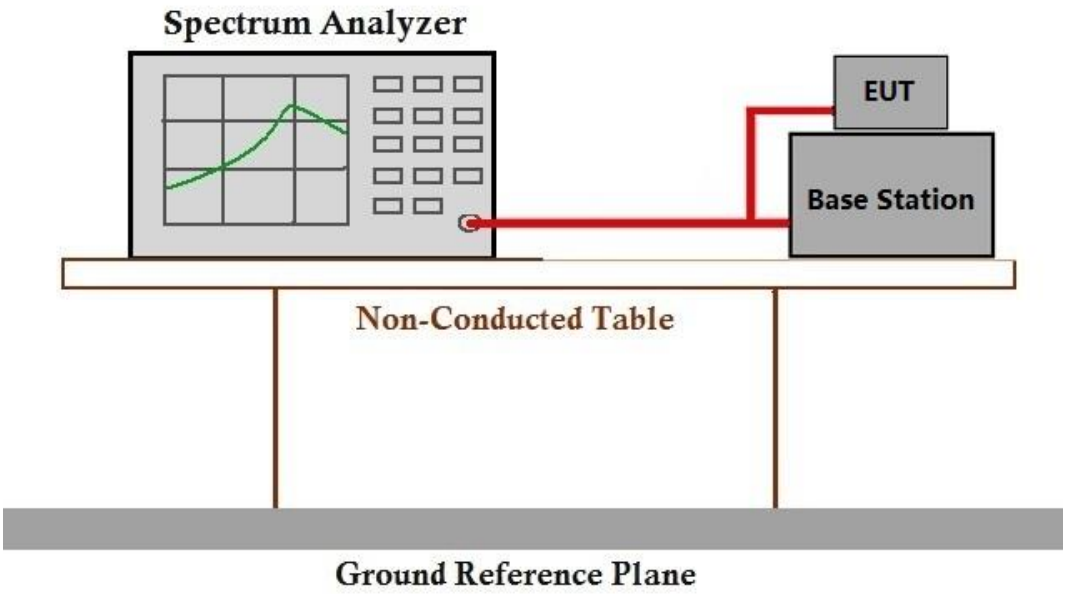
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 57.2 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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 CSE test data.

6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051,§22.917,§24.238,§27.53,§90.691

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

Limit: ≤ -13dBm (**LTE Band2,4,5,12,13,25,26)**

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 that 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 **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.

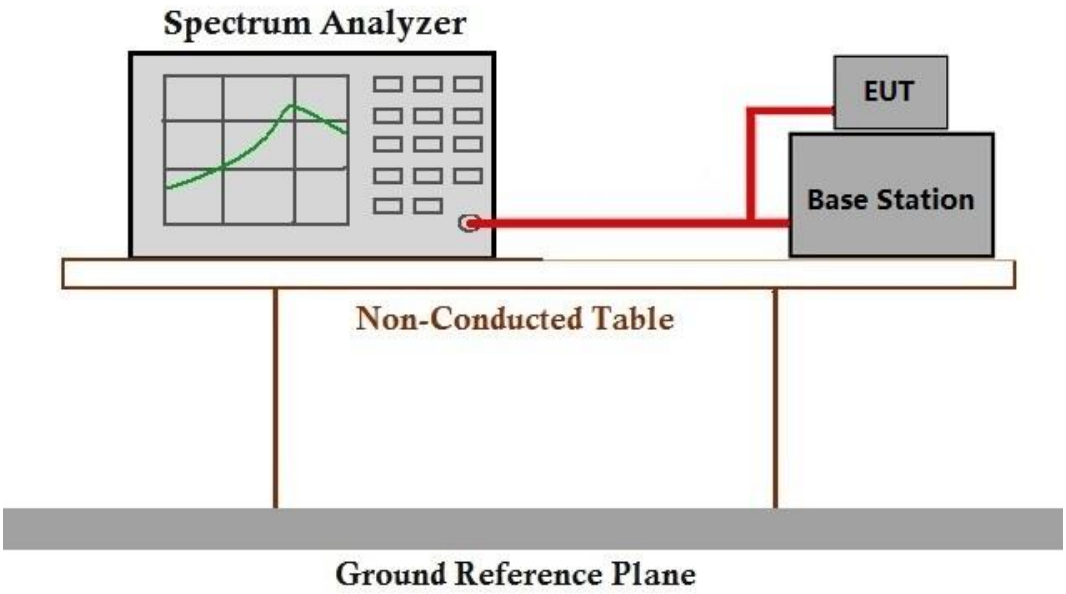
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 57.2 % 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 CSE test data.

6.6 Field strength of spurious radiation

Test Requirement: §2.1051,§22.917,§24.238,§27.53,§90.691

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

Limit: ≤ -13dBm (**LTE Band2,4,5,12,13,25,26)**

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 that 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 **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.

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 50.9 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

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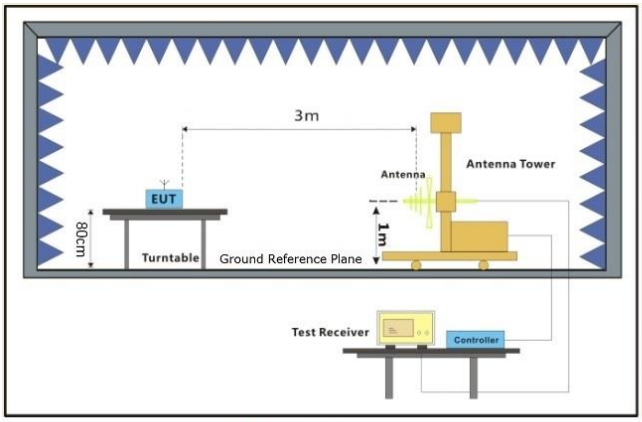
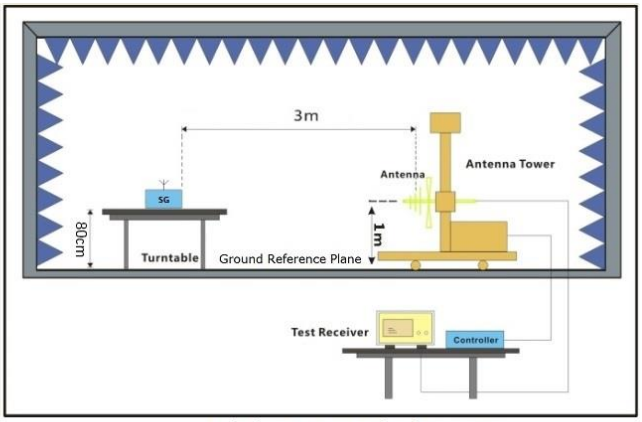
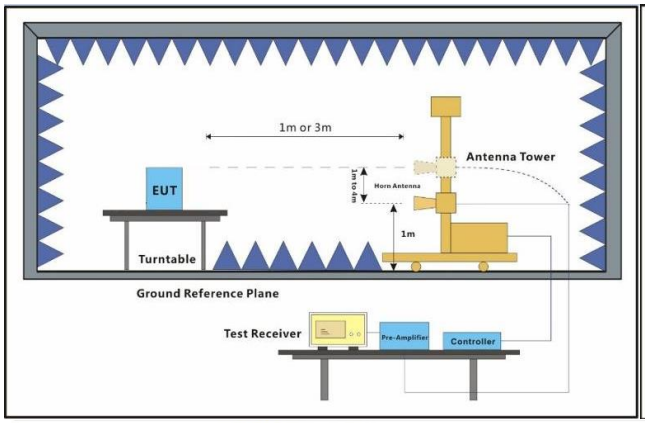
6.6.2 Test Setup Diagram



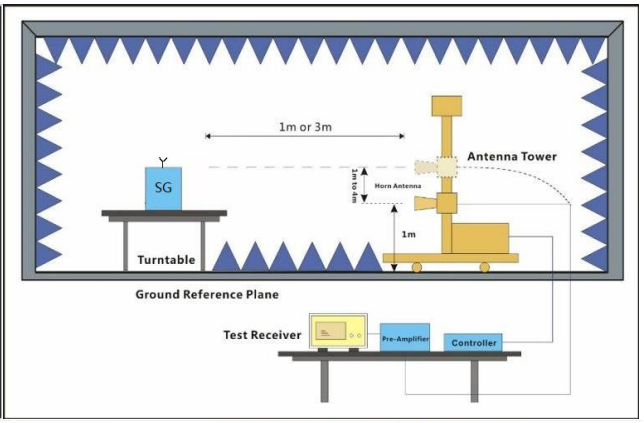
EUT



Substiute Antenna+Signal Generator



EUT



Substiute Antenna+Signal Generator

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 than 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.

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
3700.14	-55.65	-13	-42.65	-62.54	0.71	7.6	Horizontal	Pass
5550.21	-53.26	-13	-40.26	-62.71	0.85	10.3	Horizontal	Pass
7400.28	-51.10	-13	-38.10	-63.00	1	12.9	Horizontal	Pass
3700.14	-55.67	-13	-42.67	-62.56	0.71	7.6	Vertical	Pass
5550.21	-54.33	-13	-41.33	-63.78	0.85	10.3	Vertical	Pass
7400.28	-50.44	-13	-37.44	-62.34	1	12.9	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
3758.74	-55.71	-13	-42.71	-62.60	0.71	7.6	Horizontal	Pass
5638.11	-53.03	-13	-40.03	-62.48	0.85	10.3	Horizontal	Pass
7517.48	-48.66	-13	-35.66	-60.87	0.99	13.2	Horizontal	Pass
3758.74	-54.75	-13	-41.75	-61.64	0.71	7.6	Vertical	Pass
5638.11	-53.15	-13	-40.15	-62.60	0.85	10.3	Vertical	Pass
7517.48	-50.81	-13	-37.81	-63.02	0.99	13.2	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
3817.34	-54.73	-13	-41.73	-61.62	0.71	7.6	Horizontal	Pass
5726.01	-53.49	-13	-40.49	-62.94	0.85	10.3	Horizontal	Pass
7634.68	-49.83	-13	-36.83	-62.04	0.99	13.2	Horizontal	Pass
3817.34	-55.40	-13	-42.40	-62.29	0.71	7.6	Vertical	Pass
5726.01	-54.02	-13	-41.02	-63.47	0.85	10.3	Vertical	Pass
7634.68	-49.81	-13	-36.81	-62.02	0.99	13.2	Vertical	Pass

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
3420.14	-55.01	-13	-42.01	-57.59	5.72	8.3	Horizontal	Pass
5130.21	-50.53	-13	-37.53	-52.53	8.3	10.3	Horizontal	Pass
6840.28	-49.34	-13	-36.34	-52.89	7.7	11.25	Horizontal	Pass
3420.14	-53.46	-13	-40.46	-56.04	5.72	8.3	Vertical	Pass
5130.21	-50.15	-13	-37.15	-52.15	8.3	10.3	Vertical	Pass
6840.28	-48.03	-13	-35.03	-51.58	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
3463.74	-52.04	-13	-39.04	-54.62	5.72	8.3	Horizontal	Pass
5195.61	-50.21	-13	-37.21	-52.21	8.3	10.3	Horizontal	Pass
6927.48	-49.66	-13	-36.66	-53.21	7.7	11.25	Horizontal	Pass
3463.74	-52.64	-13	-39.64	-55.22	5.72	8.3	Vertical	Pass
5195.61	-49.81	-13	-36.81	-51.81	8.3	10.3	Vertical	Pass
6927.48	-49.96	-13	-36.96	-53.51	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
3507.34	-53.94	-13	-40.94	-56.16	6.99	9.21	Horizontal	Pass
5261.01	-49.72	-13	-36.72	-51.72	8.3	10.3	Horizontal	Pass
7014.68	-49.00	-13	-36.00	-52.54	8.19	11.73	Horizontal	Pass
3507.34	-54.70	-13	-41.70	-56.92	6.99	9.21	Vertical	Pass
5261.01	-49.52	-13	-36.52	-51.52	8.3	10.3	Vertical	Pass
7014.68	-48.10	-13	-35.10	-51.64	8.19	11.73	Vertical	Pass

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
1648.14	-47.73	-13	-34.73	-51.39	3.77	7.43	Horizontal	Pass
2472.21	-56.18	-13	-43.18	-58.51	4.75	7.08	Horizontal	Pass
3296.28	-55.54	-13	-42.54	-58.12	5.72	8.3	Horizontal	Pass
1648.14	-55.67	-13	-42.67	-59.33	3.77	7.43	Vertical	Pass
2472.21	-57.51	-13	-44.51	-59.84	4.75	7.08	Vertical	Pass
3296.28	-53.52	-13	-40.52	-56.10	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
1671.74	-47.35	-13	-34.35	-51.01	3.77	7.43	Horizontal	Pass
2507.61	-56.91	-13	-43.91	-59.38	5.13	7.6	Horizontal	Pass
3343.48	-54.32	-13	-41.32	-56.90	5.72	8.3	Horizontal	Pass
1671.74	-58.10	-13	-45.10	-61.76	3.77	7.43	Vertical	Pass
2507.61	-57.51	-13	-44.51	-59.98	5.13	7.6	Vertical	Pass
3343.48	-55.13	-13	-42.13	-57.71	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
1695.34	-52.16	-13	-39.16	-55.82	3.77	7.43	Horizontal	Pass
2543.01	-57.68	-13	-44.68	-60.15	5.13	7.6	Horizontal	Pass
3390.68	-53.14	-13	-40.14	-55.72	5.72	8.3	Horizontal	Pass
1695.34	-58.25	-13	-45.25	-61.91	3.77	7.43	Vertical	Pass
2543.01	-55.69	-13	-42.69	-58.16	5.13	7.6	Vertical	Pass
3390.68	-52.83	-13	-39.83	-55.41	5.72	8.3	Vertical	Pass

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
5000.5	-50.03	-25	-25.03	-52.03	8.3	10.3	Horizontal	Pass
7500.75	-47.06	-25	-22.06	-50.89	8.43	12.26	Horizontal	Pass
10001	-45.73	-25	-20.73	-47.98	11.12	13.37	Horizontal	Pass
5000.5	-48.97	-25	-23.97	-50.97	8.3	10.3	Vertical	Pass
7500.75	-45.52	-25	-20.52	-49.35	8.43	12.26	Vertical	Pass
10001	-45.05	-25	-20.05	-47.30	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
5065.5	-51.25	-25	-26.25	-53.25	8.3	10.3	Horizontal	Pass
7598.25	-47.20	-25	-22.20	-51.03	8.43	12.26	Horizontal	Pass
10131	-45.05	-25	-20.05	-47.30	11.12	13.37	Horizontal	Pass
5065.5	-49.17	-25	-24.17	-51.17	8.3	10.3	Vertical	Pass
7598.25	-47.88	-25	-22.88	-51.71	8.43	12.26	Vertical	Pass
10131	-43.86	-25	-18.86	-46.11	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
5130.5	-50.20	-25	-25.20	-52.20	8.3	10.3	Horizontal	Pass
7695.75	-46.43	-25	-21.43	-50.26	8.43	12.26	Horizontal	Pass
10261	-45.89	-25	-20.89	-48.14	11.12	13.37	Horizontal	Pass
5130.5	-50.71	-25	-25.71	-52.71	8.3	10.3	Vertical	Pass
7695.75	-48.25	-25	-23.25	-52.08	8.43	12.26	Vertical	Pass
10261	-44.47	-25	-19.47	-46.72	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	-65.01	-13	-52.01	-66.29	2.57	6	Horizontal	Pass
2098.5	-63.81	-13	-50.81	-68.66	3.4	10.4	Horizontal	Pass
2798	-60.82	-13	-47.82	-66.06	3.21	10.6	Horizontal	Pass
1399	-64.91	-13	-51.91	-66.19	2.57	6	Vertical	Pass
2098.5	-63.79	-13	-50.79	-68.64	3.4	10.4	Vertical	Pass
2798	-60.28	-13	-47.28	-65.52	3.21	10.6	Vertical	Pass

FDD LTE Band12-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406	-64.30	-13	-51.30	-65.58	2.57	6	Horizontal	Pass
2109	-63.27	-13	-50.27	-68.12	3.4	10.4	Horizontal	Pass
2812	-60.87	-13	-47.87	-66.11	3.21	10.6	Horizontal	Pass
1406	-60.61	-13	-47.61	-61.89	2.57	6	Vertical	Pass
2109	-64.64	-13	-51.64	-69.49	3.4	10.4	Vertical	Pass
2812	-61.45	-13	-48.45	-66.69	3.21	10.6	Vertical	Pass

FDD LTE Band12-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413	-63.41	-13	-50.41	-64.69	2.57	6	Horizontal	Pass
2119.5	-64.07	-13	-51.07	-68.92	3.4	10.4	Horizontal	Pass
2826	-58.92	-13	-45.92	-64.16	3.21	10.6	Horizontal	Pass
1413	-58.87	-13	-45.87	-60.15	2.57	6	Vertical	Pass
2119.5	-62.41	-13	-49.41	-67.26	3.4	10.4	Vertical	Pass
2826	-54.18	-13	-41.18	-59.42	3.21	10.6	Vertical	Pass

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	-57.35	-13	-44.35	-60.37	3.33	8.5	Horizontal	Pass
2332.5	-51.96	-13	-38.96	-56.81	3.4	10.4	Horizontal	Pass
3110	-49.72	-13	-36.72	-56.08	2.99	11.5	Horizontal	Pass
1555	-56.88	-13	-43.88	-59.90	3.33	8.5	Vertical	Pass
2332.5	-49.63	-13	-36.63	-54.48	3.4	10.4	Vertical	Pass
3110	-49.61	-13	-36.61	-55.97	2.99	11.5	Vertical	Pass

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FDD LTE Band25-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
3720	-53.40	-13	-40.40	-60.29	0.71	7.6	Horizontal	Pass
5580	-54.06	-13	-41.06	-63.51	0.85	10.3	Horizontal	Pass
7440	-49.65	-13	-36.65	-61.55	1	12.9	Horizontal	Pass
3720	-55.72	-13	-42.72	-62.61	0.71	7.6	Vertical	Pass
5580	-52.38	-13	-39.38	-61.83	0.85	10.3	Vertical	Pass
7440	-48.84	-13	-35.84	-60.74	1	12.9	Vertical	Pass

FDD LTE Band25-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
3765	-55.26	-13	-42.26	-62.15	0.71	7.6	Horizontal	Pass
5647.5	-52.78	-13	-39.78	-62.23	0.85	10.3	Horizontal	Pass
7530	-50.51	-13	-37.51	-62.72	0.99	13.2	Horizontal	Pass
3765	-55.65	-13	-42.65	-62.54	0.71	7.6	Vertical	Pass
5647.5	-51.70	-13	-38.70	-61.15	0.85	10.3	Vertical	Pass
7530	-49.91	-13	-36.91	-62.12	0.99	13.2	Vertical	Pass

FDD LTE Band25-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
3810	-54.53	-13	-41.53	-61.42	0.71	7.6	Horizontal	Pass
5715	-55.24	-13	-42.24	-64.69	0.85	10.3	Horizontal	Pass
7620	-49.88	-13	-36.88	-62.09	0.99	13.2	Horizontal	Pass
3810	-55.25	-13	-42.25	-62.14	0.71	7.6	Vertical	Pass
5715	-55.67	-13	-42.67	-65.12	0.85	10.3	Vertical	Pass
7620	-50.41	-13	-37.41	-62.62	0.99	13.2	Vertical	Pass

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	-56.57	-13	-43.57	-59.59	3.33	8.5	Horizontal	Pass
2474.25	-61.78	-13	-48.78	-66.63	3.4	10.4	Horizontal	Pass
3299	-58.14	-13	-45.14	-64.50	2.99	11.5	Horizontal	Pass
1649.5	-59.16	-13	-46.16	-62.18	3.33	8.5	Vertical	Pass
2474.25	-61.28	-13	-48.28	-66.13	3.4	10.4	Vertical	Pass
3299	-57.73	-13	-44.73	-64.09	2.99	11.5	Vertical	Pass

FDD LTE Band26-Middle channel, Modulation: QPSK, Bandwidth: 15MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1659.5	-66.26	-13	-53.26	-69.28	3.33	8.5	Horizontal	Pass
2489.25	-62.36	-13	-49.36	-67.21	3.4	10.4	Horizontal	Pass
3319	-59.38	-13	-46.38	-65.74	2.99	11.5	Horizontal	Pass
1659.5	-65.71	-13	-52.71	-68.73	3.33	8.5	Vertical	Pass
2489.25	-62.09	-13	-49.09	-66.94	3.4	10.4	Vertical	Pass
3319	-59.32	-13	-46.32	-65.68	2.99	11.5	Vertical	Pass

FDD LTE Band26-High channel, Modulation: QPSK, Bandwidth: 15MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1669.5	-65.42	-13	-52.42	-68.44	3.33	8.5	Horizontal	Pass
2504.25	-61.48	-13	-48.48	-66.72	3.21	10.6	Horizontal	Pass
3339	-57.78	-13	-44.78	-64.14	2.99	11.5	Horizontal	Pass
1669.5	-65.40	-13	-52.40	-68.42	3.33	8.5	Vertical	Pass
2504.25	-62.71	-13	-49.71	-67.95	3.21	10.6	Vertical	Pass
3339	-58.60	-13	-45.60	-64.96	2.99	11.5	Vertical	Pass

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
5140.5	-49.94	-25	-24.94	-51.94	8.3	10.3	Horizontal	Pass
7710.75	-48.08	-25	-23.08	-51.91	8.43	12.26	Horizontal	Pass
10281	-45.36	-25	-20.36	-47.61	11.12	13.37	Horizontal	Pass
5140.5	-50.57	-25	-25.57	-52.57	8.3	10.3	Vertical	Pass
7710.75	-48.70	-25	-23.70	-52.53	8.43	12.26	Vertical	Pass
10281	-46.62	-25	-21.62	-48.87	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
5185.5	-49.77	-25	-24.77	-51.77	8.3	10.3	Horizontal	Pass
7778.25	-47.65	-25	-22.65	-51.48	8.43	12.26	Horizontal	Pass
10371	-43.74	-25	-18.74	-45.99	11.12	13.37	Horizontal	Pass
5185.5	-50.48	-25	-25.48	-52.48	8.3	10.3	Vertical	Pass
7778.25	-48.26	-25	-23.26	-52.09	8.43	12.26	Vertical	Pass
10371	-45.46	-25	-20.46	-47.71	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
5230.5	-50.59	-25	-25.59	-52.59	8.3	10.3	Horizontal	Pass
7845.75	-47.62	-25	-22.62	-51.45	8.43	12.26	Horizontal	Pass
10461	-44.67	-25	-19.67	-46.92	11.12	13.37	Horizontal	Pass
5230.5	-47.73	-25	-22.73	-49.73	8.3	10.3	Vertical	Pass
7845.75	-46.49	-25	-21.49	-50.32	8.43	12.26	Vertical	Pass
10461	-45.19	-25	-20.19	-47.44	11.12	13.37	Vertical	Pass

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
4997	-50.59	-25	-25.59	-53.18	7.47	10.06	Horizontal	Pass
7495.5	-46.29	-25	-21.29	-49.83	8.19	11.73	Horizontal	Pass
9994	-43.36	-25	-18.36	-45.39	11.49	13.52	Horizontal	Pass
4997	-50.26	-25	-25.26	-52.85	7.47	10.06	Vertical	Pass
7495.5	-47.00	-25	-22.00	-50.54	8.19	11.73	Vertical	Pass
9994	-44.39	-25	-19.39	-46.42	11.49	13.52	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
5186	-50.88	-25	-25.88	-52.88	8.3	10.3	Horizontal	Pass
7779	-47.88	-25	-22.88	-51.71	8.43	12.26	Horizontal	Pass
10372	-46.08	-25	-21.08	-48.33	11.12	13.37	Horizontal	Pass
5186	-50.69	-25	-25.69	-52.69	8.3	10.3	Vertical	Pass
7779	-48.21	-25	-23.21	-52.04	8.43	12.26	Vertical	Pass
10372	-45.11	-25	-20.11	-47.36	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
5375	-50.19	-25	-25.19	-52.19	8.3	10.3	Horizontal	Pass
8062.5	-44.43	-25	-19.43	-47.68	9.43	12.68	Horizontal	Pass
10750	-43.50	-25	-18.50	-45.92	11.06	13.48	Horizontal	Pass
5375	-50.14	-25	-25.14	-52.14	8.3	10.3	Vertical	Pass
8062.5	-44.89	-25	-19.89	-48.14	9.43	12.68	Vertical	Pass
10750	-44.43	-25	-19.43	-46.85	11.06	13.48	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.

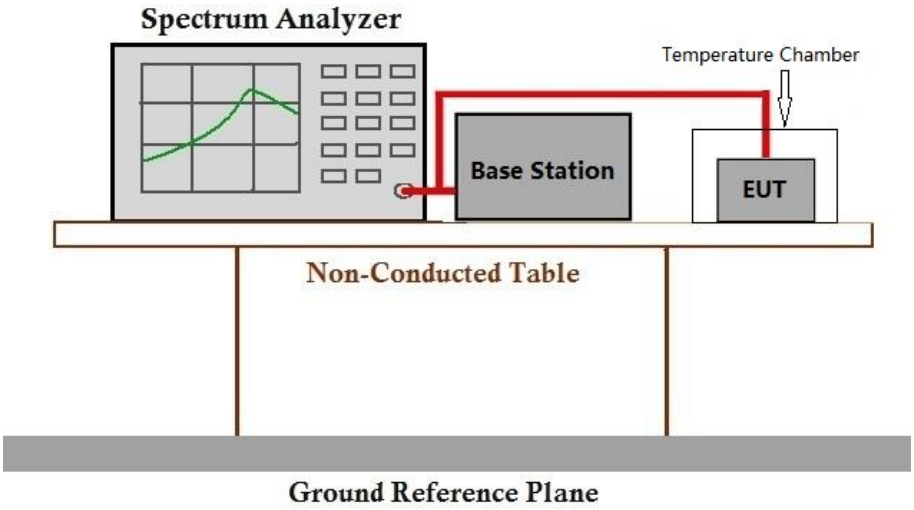
6.7 Frequency stability

Test Requirement: §2.1055,§22.355,§24.235,§27.54,§90.213
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
Limit: ≤ ±2.5ppm.

6.7.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 57.2 % 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 FE test data.

7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2308002542AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2308002542AT

- End of the Report -

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