TEST REPORT

Application No.:	SZCR2502000558MO
Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, 200233,China
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, 200233,China
Equipment Under Test (EUT):	
EUT Name:	LTE NTN Module
Model No.:	BG770A-SN
Trade Mark:	Quectel
FCC ID:	XMR024BG770ASN
Standard(s) :	47 CFR Part 2 47 CFR Part 25
Date of Receipt:	2025-02-18
Date of Test:	2025-02-19 to 2025-02-24
Date of Issue:	2025-02-25
Test Result:	**Pass**

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

Keny Xu

EMC Laboratory Manager

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn

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

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2025-02-25		Original

Authorized for issue by:				
		Kevin lan **Kevin Lan/Project Engineer**		
		Eric Fu **Eric Fu/Reviewer**		

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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

2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	§2.1046 §25.204	ERP≤ 40dBW	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Emission limitations.	§2.1051 §25.202 (f)(1)(2)	Refer to clause 6.3	PASS
Conducted Spurious emissions	§2.1051 §25.202 (f)(3)	Refer to clause 6.4	PASS
Field strength of spurious radiation	§2.1053 §25.202 (f)(3)	Refer to clause 6.5	PASS
Frequency stability	§2.1055 §25.202 (d)	within 0.001 percent of the reference frequency	PASS
Additional unwanted emission limits for MESs	§25.216(c)(e)(h)(i)	Refer to clause 6.7	PASS

3 Contents

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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

4 General Information

4.1 Details of E.U.T.

EUT Description:	LTE NTN Module	
Model No.:	BG770A-SN	
Trade Mark:	Quectel	
Hardware Version:	R1.0	
Software Version:	BG770ASNAAR02A03	
IMEI:	867953065839237	
Antenna Type:	Fixed External Antenna	
Operation Frequency Band:	Tx Frequency	Band 23: 2000 MHz ~ 2020 MHz
	Rx Frequency	Band 23: 2180 MHz ~ 2200 MHz
Modulation Type:	BPSK, QPSK	
SCS:	3.75kHz, 15kHz	
Bandwidth	200kHz	
Antenna Gain:	Band 23: 3.7dBi	
RF Cable:	2000MHz ~ 2100MHz(4.0dB)	

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

Note:

(1) The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.

4.2 Test Frequency

Test mode1:	SCS (KHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
Band 23	3.75	2000.1	2010	2019.9
	15			

Remark: The test mode(s) are selected according to relevant radio technology specifications.

4.3 Test Environment

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-53.9 % RH Ambient	
Value	Temperature(℃)	Voltage(V)
NTNV	22~23	3.3
LTLV	-35	3.1
LTHV	-35	4.2
HTLV	75	3.1
HTHV	75	4.2
Remark:		
NV: Normal Voltage	LV: Low Extreme Test Voltage	HV: High Extreme Test Voltage
NT: Normal Temperature	LT: Low Extreme Test Temperature	HT: High Extreme Test Temperature

4.4 Description of Support Units

Description	Manufacturer	Model No.
EVB test fixture	Quectel	BG770A-SN-TE-B
Remark: all above the information of table are provided by client.		

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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

4.5 Measurement Uncertainty

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

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

5 Equipment List

RF conducted test					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. date (yyyy/mm/dd)**	**Cal.Due date (yyyy/mm/dd)**
Humidity/ Temperature Indicator	Deli	8838	SEM002-40	2024/07/24	2025/07/23
Spectrum Analyzer	Keysight	N9030B	SEM004-30	2024/09/04	2025/09/03
Spectrum Analyzer	Agilent	N9020A	SZ-WRG-M-018	2024/05/24	2025/05/23
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2024/3/14	2025/3/13
DC power supply	HYELEC	HY3005B	SZ-WRG-M-044	2024/08/21	2025/08/20
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	SZ-WRG-M-033	2025/01/07	2026/01/06
Wideband Radio Communication Tester	Anristu	MT8821C	SZ-WRG-M-042	2024/06/21	2025/06/20
Radio Communication Analyzer	Keysight	UXM 5G(E7515B)	SZ-WRG-M-021	2024/5/24	2025/5/23
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024/07/30	2025/07/29
Signal Generator	KEYSIGHT	N5182A	SZ-WRG-M-041	2025/01/07	2026/01/06
Test Software	TST PASS	TST PASS V2.0	N/A	NCR	NCR

Radiated spurious emissions					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. date (yyyy/mm/dd)**	**Cal.Due date (yyyy/mm/dd)**
MXE EMI receiver (3Hz-3.6GHz)	KEYSIGHT	N9038B	SEM004-29	2024/08/14	2025/08/13
Signal &Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025/01/07	2026/01/06
Pre-amplifier (30MHz-1GHz)	SGS	AMP30M1G30	SEM005-33	2024/03/05	2025/03/04
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025/01/07	2026/01/06
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025/01/07	2026/01/06
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025/01/07	2026/01/06
Active Loop Antenna 9kHz-30MHz	SCHWARZBECK	FMZB 1519B	SZ-WRG-M-053	2023/12/25	2025/12/24
TRILOG Breitband Antenne 30MHz-1GHz	SCHWARZBECK	VULB 9168	SZ-WRG-M-054	2023/12/25	2025/12/24
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023/12/21	2025/12/20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023/12/25	2025/12/24
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-M-058	NCR	NCR
RE Test Software	Tonscend	JS32-RE V4.0.0	SZ-WRG-M-059	NCR	NCR
Measurement Software	AUDIX	e3 V8.2014-6-27	NCR	NCR	NCR
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025/01/06	2028/01/05
Humidity/ Temperature Indicator	Deli	8838	SEM002-46	2024/07/24	2025/07/23
Spectrum Analyzer	Keysight	N9020A	SZ-WRG-M-002	2024/08/17	2025/08/16
Radio Communication Tester	Anritsu	MT8821C	SZ-WRG-M-014	2024/08/19	2025/08/18

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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

Radio Communication Analyzer	Keysight	UXM 5G(E7515B)	SZ-WRG-M-021	2024/5/24	2025/5/23

Remark: NCR=No Calibration Requirement.

6 Radio Spectrum Matter Test Results

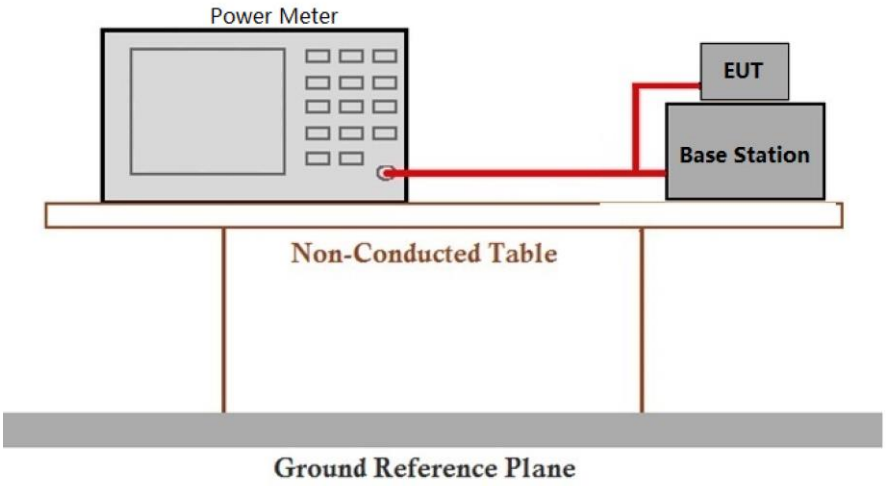
6.1 Effective (Isotropic) Radiated Output Power Data

Test Requirement: §2.1046; §25.204
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
Limit: 40dBW

6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
Test mode : Test mode1

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix for NTN test data(Band 23)

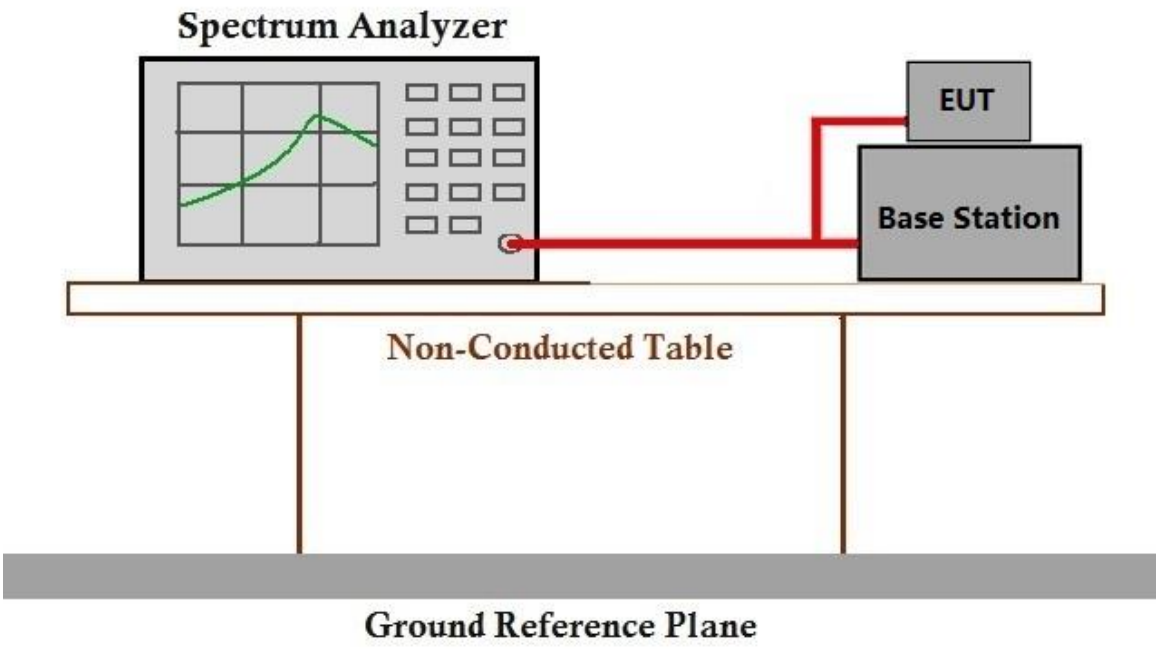
6.2 Bandwidth

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

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
Test mode : Test mode1

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please refer to Appendix for NTN test data(Band 23)

6.3 Emission limitations

Test Requirement: §2.1051; §25.202 (f)(1)(2)

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

Limit: In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: 25 dB;
In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: 35 dB;

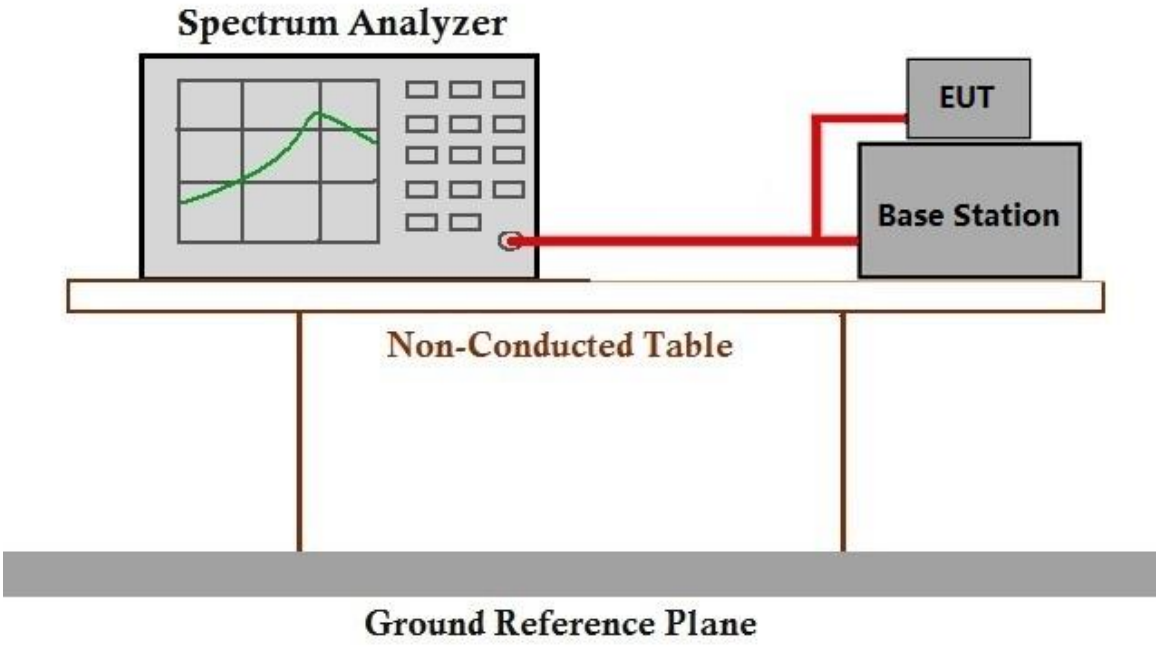
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode : Test mode1

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

Please refer to Appendix for NTN test data(Band 23)

6.4 Conducted Spurious emissions

Test Requirement: §2.1051; §25.202 (f)(3)

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

Limit: In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts

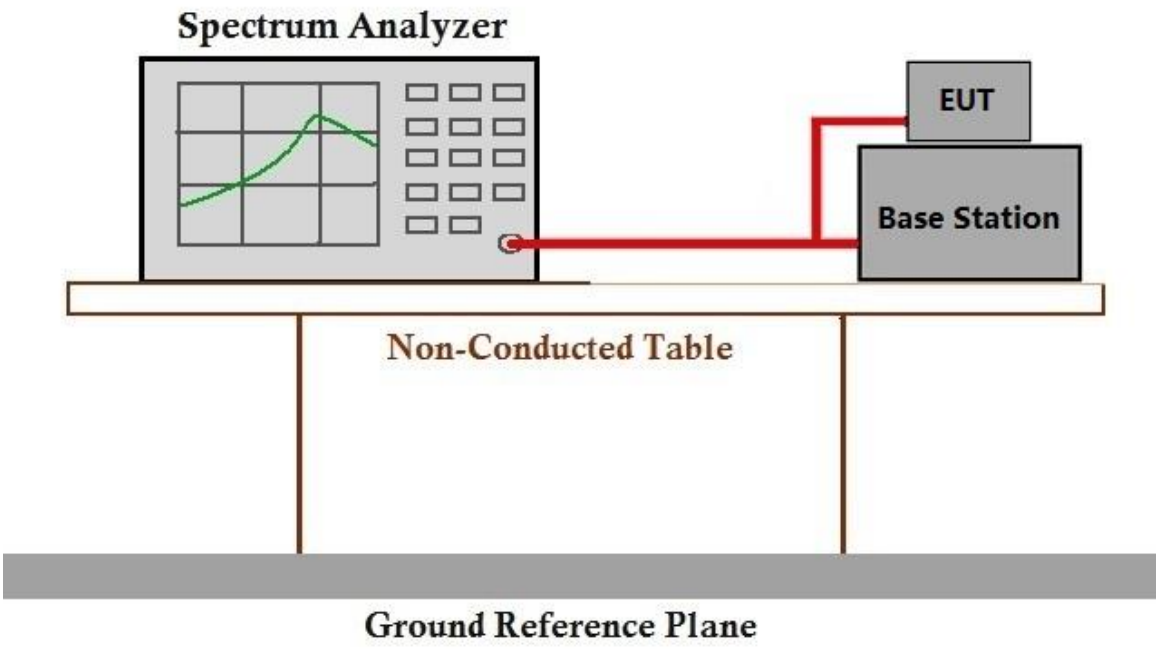
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode : Test mode1

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Please refer to Appendix for NTN test data(Band 23)

6.5 Field strength of spurious radiation

Test Requirement: §2.1051; §25.202 (f)(3)

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

Limit: In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts

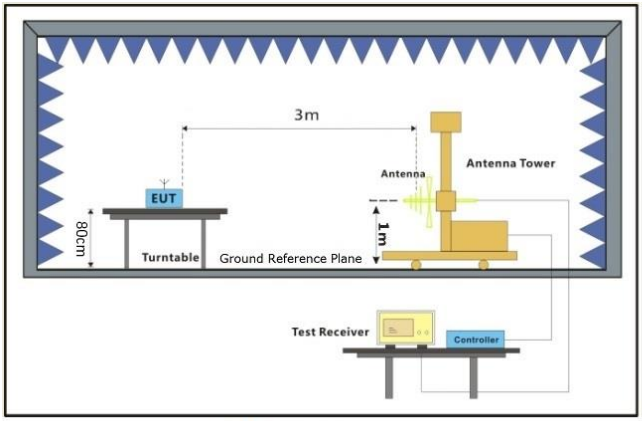
6.5.1 E.U.T. Operation

Operating Environment:

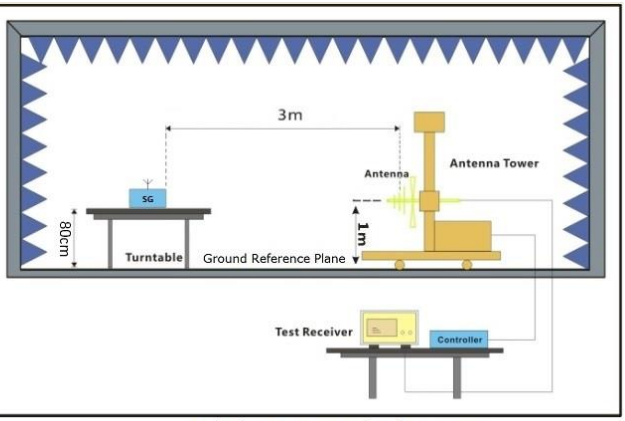
Temperature: 22~23°C Humidity: 44~46% RH Atmospheric Pressure: 101 kPa

Test mode : Test mode1

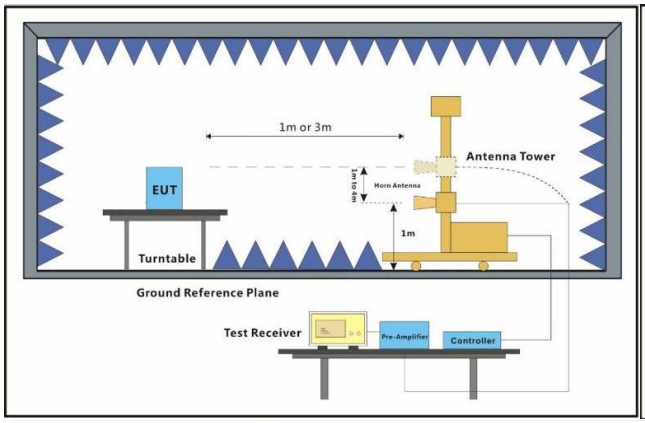
6.5.2 Test Setup Diagram



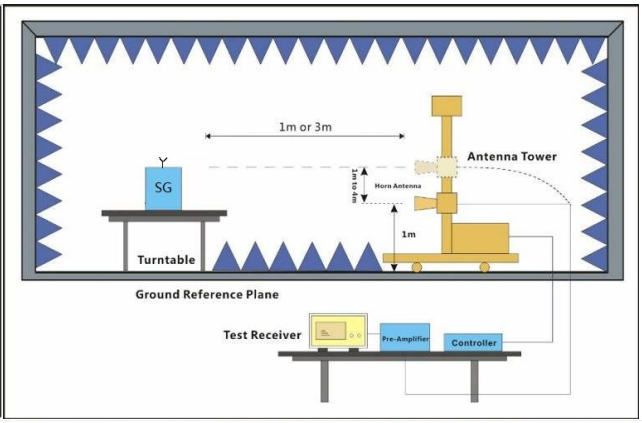
EUT



Substiute Antenna+Signal Generator



EUT



Substiute Antenna+Signal Generator

6.5.3 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.

NTN Band 23-Low channel, Modulation: QPSK, Bandwidth:15kHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4000.2	-60.28	-13	-47.28	-65.28	3.84	8.84	Horizontal	Pass
6000.3	-61.25	-13	-48.25	-66.91	4.79	10.45	Horizontal	Pass
8000.4	-57.36	-13	-44.36	-64.71	4.98	12.33	Horizontal	Pass
4000.2	-58.65	-13	-45.65	-63.65	3.84	8.84	Vertical	Pass
6000.3	-59.12	-13	-46.12	-64.78	4.79	10.45	Vertical	Pass
8000.4	-56.45	-13	-43.45	-63.8	4.98	12.33	Vertical	Pass

NTN Band 23-Middle channel, Modulation: QPSK, Bandwidth:15kHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4020.0	-63.25	-13	-50.25	-68.25	3.86	8.86	Horizontal	Pass
6030.0	-59.86	-13	-46.86	-65.52	4.79	10.45	Horizontal	Pass
8040.0	-57.12	-13	-44.12	-64.51	4.99	12.38	Horizontal	Pass
4020.0	-58.42	-13	-45.42	-63.42	3.86	8.86	Vertical	Pass
6030.0	-61.89	-13	-48.89	-67.55	4.79	10.45	Vertical	Pass
8040.0	-58.02	-13	-45.02	-65.41	4.99	12.38	Vertical	Pass

NTN Band 23-High channel, Modulation: QPSK, Bandwidth:15kHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4039.8	-63.69	-13	-50.69	-68.69	3.88	8.88	Horizontal	Pass
6059.7	-60.01	-13	-47.01	-65.66	4.8	10.45	Horizontal	Pass
8079.6	-57.56	-13	-44.56	-64.99	4.99	12.42	Horizontal	Pass
4039.8	-61.23	-13	-48.23	-66.23	3.88	8.88	Vertical	Pass
6059.7	-59.73	-13	-46.73	-65.38	4.8	10.45	Vertical	Pass
8079.6	-56.14	-13	-43.14	-63.57	4.99	12.42	Vertical	Pass

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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

NTN Band 23-Low channel, Modulation: QPSK, Bandwidth:3.75kHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4000.2	-57.56	-13	-44.56	-62.56	3.84	8.84	Horizontal	Pass
6000.3	-60.48	-13	-47.48	-66.14	4.79	10.45	Horizontal	Pass
8000.4	-57.98	-13	-44.98	-65.33	4.98	12.33	Horizontal	Pass
4000.2	-58.36	-13	-45.36	-63.36	3.84	8.84	Vertical	Pass
6000.3	-58.25	-13	-45.25	-63.91	4.79	10.45	Vertical	Pass
8000.4	-57.39	-13	-44.39	-64.74	4.98	12.33	Vertical	Pass

NTN Band 23-Middle channel, Modulation: QPSK, Bandwidth:3.75kHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4020.0	-63.96	-13	-50.96	-68.96	3.86	8.86	Horizontal	Pass
6030.0	-60.28	-13	-47.28	-65.94	4.79	10.45	Horizontal	Pass
8040.0	-58.32	-13	-45.32	-65.71	4.99	12.38	Horizontal	Pass
4020.0	-60.31	-13	-47.31	-65.31	3.86	8.86	Vertical	Pass
6030.0	-59.97	-13	-46.97	-65.63	4.79	10.45	Vertical	Pass
8040.0	-56.87	-13	-43.87	-64.26	4.99	12.38	Vertical	Pass

NTN Band 23-High channel, Modulation: QPSK, Bandwidth:3.75kHz, 1@0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4039.8	-59.63	-13	-46.63	-64.63	3.88	8.88	Horizontal	Pass
6059.7	-60.69	-13	-47.69	-66.34	4.8	10.45	Horizontal	Pass
8079.6	-56.19	-13	-43.19	-63.62	4.99	12.42	Horizontal	Pass
4039.8	-58.45	-13	-45.45	-63.45	3.88	8.88	Vertical	Pass
6059.7	-57.12	-13	-44.12	-62.77	4.8	10.45	Vertical	Pass
8079.6	-55.89	-13	-42.89	-63.32	4.99	12.42	Vertical	Pass

Note: The test result of Below 1G which was very low and not reported.

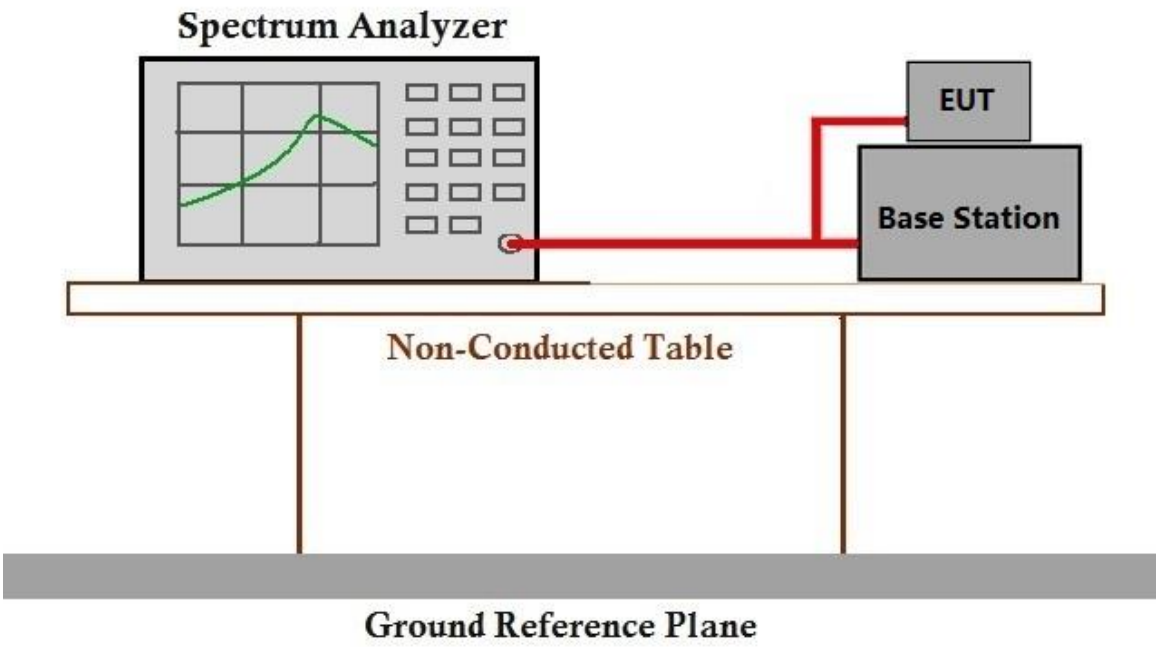
6.6 Frequency stability

Test Requirement: §2.1055, §25.202 (d)
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
Limit: Within 0.001 percent of the reference frequency

6.6.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
Test mode : Test mode1

6.6.2 Test Setup Diagram



6.6.3 Measurement Data

Please refer to Appendix for NTN test data(Band 23)

6.7 Additional unwanted emission limits for MESs

Test Requirement: §25.216(c)(e)(h)(i)

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

Limit: The e.i.r.p. density of emissions from mobile earth stations placed in service after July 21, 2002 with assigned uplink frequencies between 1610 MHz and 1660.5 MHz shall not exceed −70 dBW/MHz, averaged over any 2 millisecond active transmission interval, in the band 1559-1605 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed −80 dBW, averaged over any 2 millisecond active transmission interval, in the 1559-1605 MHz band.

The e.i.r.p density of emissions from mobile earth stations with assigned uplink frequencies between 1990 MHz and 2025 MHz shall not exceed −70 dBW/MHz, averaged over any 2 millisecond active transmission interval, in frequencies between 1559 MHz and 1610 MHz. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations between 1559 MHz and 1605 MHz shall not exceed −80 dBW, averaged over any 2 millisecond active transmission interval. The e.i.r.p. of discrete emissions of less than 700 Hz bandwidth from such stations between 1605 MHz and 1610 MHz manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 shall not exceed −80 dBW, averaged over any 2 millisecond active transmission interval.

Mobile earth stations manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies in the 1626.5-1660.5 MHz band shall suppress the power density of emissions in the 1605-1610 MHz band-segment to an extent determined by linear interpolation from −70 dBW/MHz at 1605 MHz to −46 dBW/MHz at 1610 MHz, averaged over any 2 millisecond active transmission interval. The e.i.r.p of discrete emissions of less than 700 Hz bandwidth from such stations shall not exceed a level determined by linear interpolation from −80 dBW at 1605 MHz to −56 dBW at 1610 MHz, averaged over any 2 millisecond active transmission interval.

The e.i.r.p density of carrier-off state emissions from mobile earth stations manufactured more than six months after Federal Register publication of the rule changes adopted in FCC 03-283 with assigned uplink frequencies between 1 and 3 GHz shall not exceed −80 dBW/MHz in the 1559-1610 MHz band averaged over any two millisecond interval.

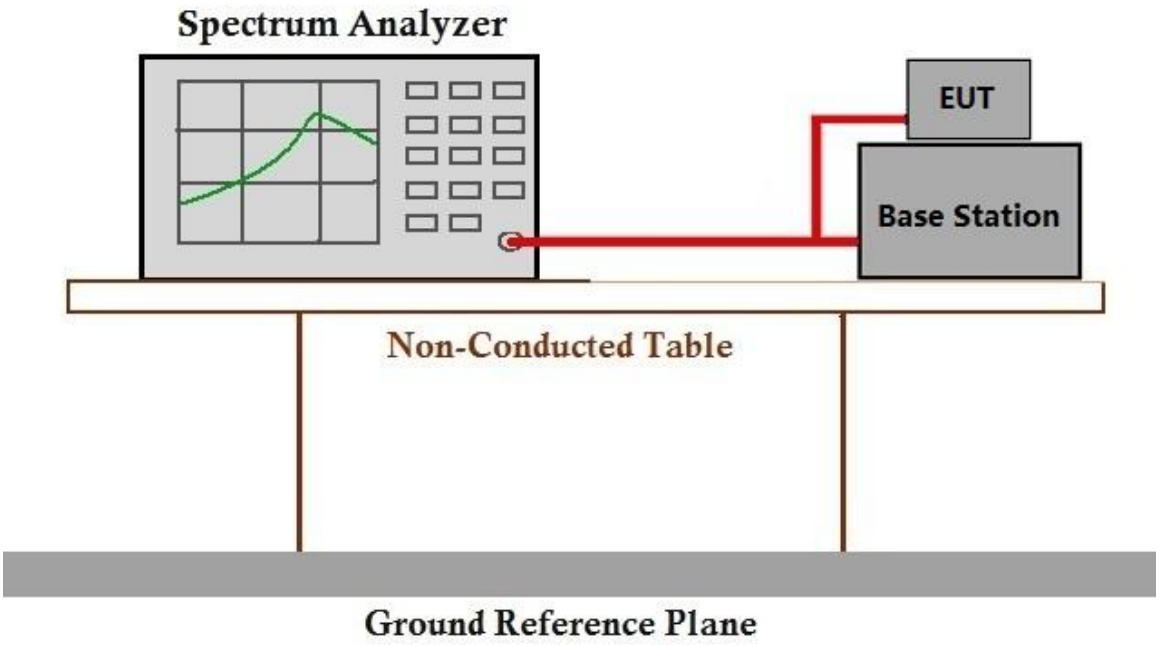
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode : Test mode1

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to Appendix for NTN test data(Band 23)

7 Test Setup Photo

Please refer to Appendix A.1 - NTN Setup Photos

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos

- End of the Report -

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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