TEST REPORT

Application No.:	FYCR2207000285AT
Applicant:	Dspread Technology (Beijing) Inc
Address of Applicant:	Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road,Chaoyang District,Beijing, 100027 China
Manufacturer:	Dspread Technology (Beijing) Inc
Address of Manufacturer:	Rm.407, B12C, #10(Universal Business Park), Jiuxianqiao Road,Chaoyang District,Beijing, 100027 China
Factory:	Shenzhen Xin Kingbrand Enterprises Co.Ltd
Address of Factory:	Kingbrand Industrial Park, Nanpu Road, Shajing Street, Baoan District, Shenzhen, China
Equipment Under Test (EUT):	
EUT Name:	Smart Pos
Model No.:	D30
FCC ID:	2AGQ6-D30
Standard(s) :	47 CFR Part 2 47 CFR Part 22 subpart H 47 CFR Part 24 subpart E 47 CFR Part 27 subpart C 47 CFR Part 90 subpart S
Date of Receipt:	2022-07-27
Date of Test:	2022-08-08 to 2022-09-29
Date of Issue:	2022-10-22
Test Result:	**Pass***

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

Winkey Wang
EMC Technical Manager

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2022-10-22		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/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(c) §27.50(d) §27.50(h) §90.635	ERP≤ 7W(LTE Band 5, 26b) EIRP≤ 2W(LTE Band 2, 25) ERP≤ 3W(LTE Band 12,17) EIRP≤ 1W(LTE Band 4) EIRP≤ 2W(LTE Band 7,38,41) ERP≤ 100W(LTE Band 26a)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(a) §27.50(d)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §22.917 §24.238 §27.50(g) §27.50(h) §27.50(m) §90.691	≤ -13dBm (LTE Band5, 26b) ≤ -13dBm (LTE Band2, 25) ≤ -13dBm (LTE Band12,17) ≤ -13dBm (LTE Band4) Refer to clause 6.4 for LTE Band7,38,41 Refer to clause 6.4 for LTE Band26a	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917 §24.238 §27.50(g) §27.50(h) §27.50(m) §90.691	≤ -13dBm (LTE Band5, 26b) ≤ -13dBm (LTE Band2, 25) ≤ -13dBm (LTE Band12,17) ≤ -13dBm (LTE Band4) Refer to clause 6.5 for LTE Band7,38,41 Refer to clause 6.5 for LTE Band26a	PASS
Field strength of spurious radiation	§2.1051 §22.917 §24.238 §27.50(g) §27.50(h) §27.50(m) §90.691	≤ -13dBm LTE Band5, 26b ≤ -13dBm LTE Band2, 25 ≤ -13dBm LTE Band12,17 ≤ -13dBm LTE Band4 Refer to clause 6.6 for LTE Band7,38,41 Refer to clause 6.6 for LTE Band26a	PASS

Frequency stability	§2.1055 §22.355 §24.235 §27.54 §90.213	≤ ±2.5ppm.	PASS

3 Contents

4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by DC3.7V by Rechargeable Li-ion Battery Model: D30 1ICR19/66-2 Charged by AC adapter M/N: TPA-46050200UU Input: AC 100-240V, 50/60Hz, 0.3A Adapter output: DC5V, 2000mA
Cable(s):	Type-C cable: 101cm unshielded cable without ferrite core
Sample Type:	Portable production
LTE Operation Frequency Band:	LTE FDD Band 2,4,5,7,12,17,25,26,38,41
Modulation Type:	QPSK, 16QAM
LTE Power Class:	Level 3
Antenna Type:	PIFA Antenna
Antenna Gain:	LTE: B2: 1.5dBi; B4: 1.4dBi; B5: -0.8dBi; B7: 1.7dBi; B12: -0.4dBi; B17: -0.5dBi; B25: 1.4dBi; B26: -0.7dBi; B38: 1.5dBi; B41: 1.7dBi
SIM Card:	This device has dual SIM Card sockets. Both the SIM sockets have been tested. SIM1 was worst case, only record SIM1.

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.

4.2 Test Frequency

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

	20	1720.0	1732.5	1745.0
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 5	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 7	5	2502.5	2535.0	2567.5
	10	2505.0	2535.0	2565.0
	15	2507.5	2535.0	2562.5
	20	2510.0	2535.0	2560.0
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704.0	707.5	711.0
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 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	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**	**RF Channel**		

	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 26a	1.4	814.7	819.0	823.3
	3	815.5	819.0	822.5
	5	816.5	819.0	821.5
	10	/	819.0	/
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 26b	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
	15	831.5	836.5	841.5
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 26 cross rule	15	821.5	831.5	841.5
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 38	5	2572.5	2595.0	2617.5
	10	2575.0	2595.0	2615.0
	15	2577.5	2595.0	2612.5
	20	2580.0	2595.0	2610.0
Test mode:	**Nominal Bandwidth (MHz)**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**
		MHz	**MHz**	**MHz**
LTE FDD Band 41	5	2537.5	2595.0	2652.5
	10	2540.0	2595.0	2650.0
	15	2542.5	2595.0	2647.5
	20	2545.0	2595.0	2645.0

4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Temperature:	TL	0°C
	TN	+25°C
	TH	+40°C
Voltage:	VL	3.33V
	VN	3.7V
	VH	4.07V

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

4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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The EUT has been tested as an independent unit.			

4.5 Measurement Uncertainty

Test Item	Measurement Uncertainty
Effective (Isotropic) Radiated Power Output Data	± 3.1dB (Below 1GHz),± 4.4dB (Above 1GHz)
Peak-Average Ratio	± 0.8dB
Modulation Characteristics	± 0.8dB
Bandwidth	± 0.3%
Band Edge Compliance	± 2.7dB
Spurious emissions at antenna terminals	± 2.7dB
Field strength of spurious radiation	± 2.7dB
Frequency stability	± 5.4 x 10-8

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.6 Test Location

All tests were performed at:

Compliance Certification Services（Kunshan）Inc. Shenzhen branch.

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

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

No tests were sub-contracted.

4.7 Test Facility

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

• A2LA (Certificate No. 6606.01)

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

• FCC –Designation Number: CN1322

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

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0129.

IC#: 28189.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None

5 Equipment List

Effective (Isotropic) Radiated Power Output Data					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Peak-Average Ratio					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1

Field Probe - Analyzer					
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Modulation Characteristics

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Bandwidth

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11

Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Band Edge Compliance					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Spurious emissions at antenna terminals					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11

Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Field strength of spurious radiation					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1

Frequency stability					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11

Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11

6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement §2.1046, §22.913, §24.232, §27.50(c), §27.50(d), §27.50(h), §90.635

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ERP≤ 7W(LTE Band 5, 26b)
EIRP≤ 2W(LTE Band 2, 25)
ERP≤ 3W(LTE Band 12,17)
EIRP≤ 1W(LTE Band 4)
EIRP≤ 2W(LTE Band 7,38,41)
ERP≤ 100W(LTE Band 26a)

6.1.1 E.U.T. Operation

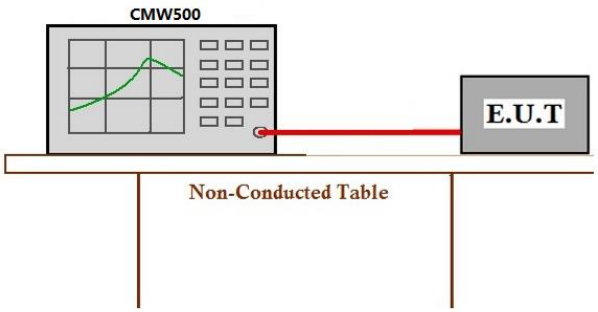
Operating Environment:

Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode_Keep the EUT in transmitting mode

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

Please refer to Appendix for LTE test data.

6.2 Peak-Average Ratio

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

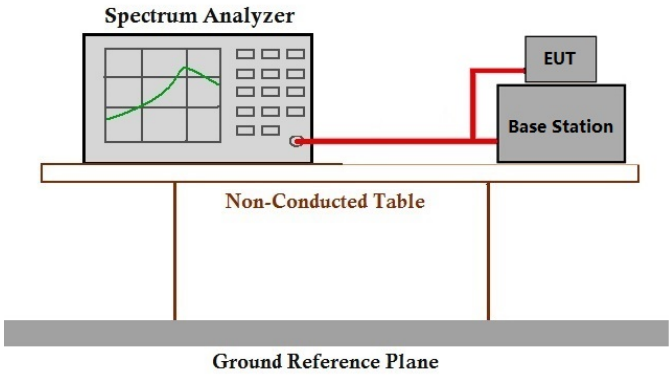
6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode_Keep the EUT in transmitting mode

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

Please refer to Appendix for LTE test data.

6.3 Modulation Characteristics

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

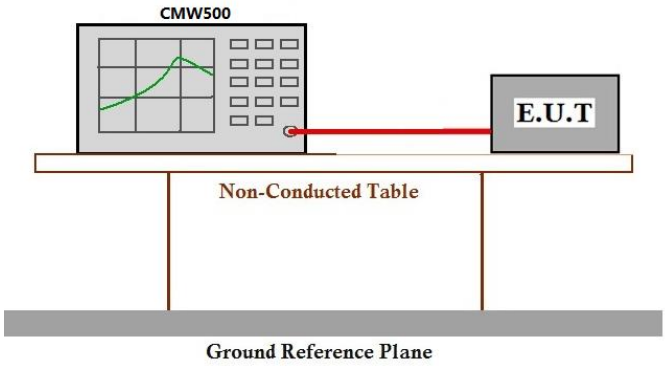
6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode_Keep the EUT in transmitting mode

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

Pass, it's a digital modulation device.

6.4 Bandwidth

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

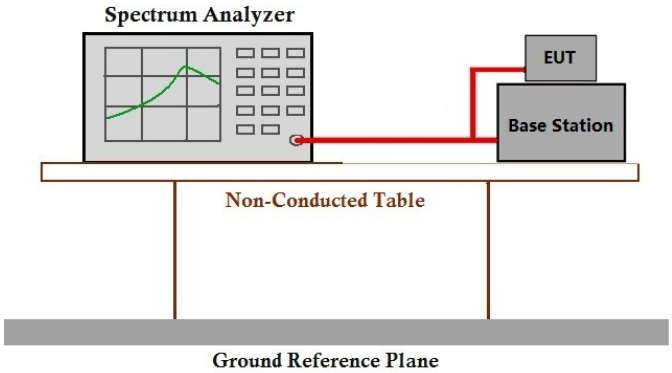
6.4.1 E.U.T. Operation

Operating Environment:
Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode_Keep the EUT in transmitting mode

6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

Please refer to Appendix for LTE test data.

6.5 Band Edge Compliance

Test Requirement §2.1051, §22.917, §24.238, §27.50(g), §27.50(h), §27.50(m), §90.691

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ -13dBm (**LTE Band2,4,5,12,17,25,26b**)

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 **Band26a**:

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

6.5.1 E.U.T. Operation

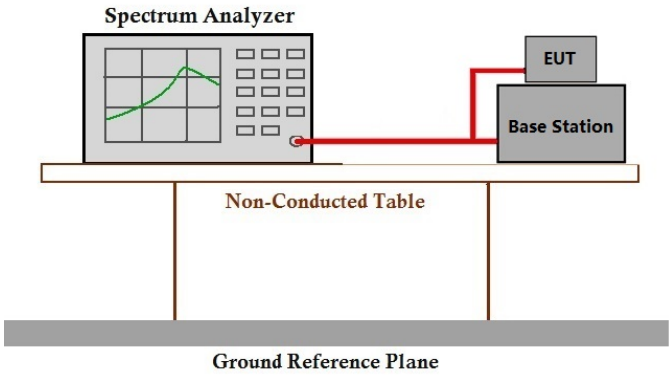
Operating Environment:

Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

6.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode_Keep the EUT in transmitting mode

6.5.3 Test Setup Diagram



6.5.4 Measurement Procedure and Data

Please refer to Appendix for LTE test data.

6.6 Spurious emissions at antenna terminals

Test Requirement §2.1051, §22.917, §24.238, §27.50(g), §27.50(h), §27.50(m), §90.691

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ -13dBm (**LTE Band2,4,5,12,17,25,26b**)

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 **Band26a**:

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

6.6.1 E.U.T. Operation

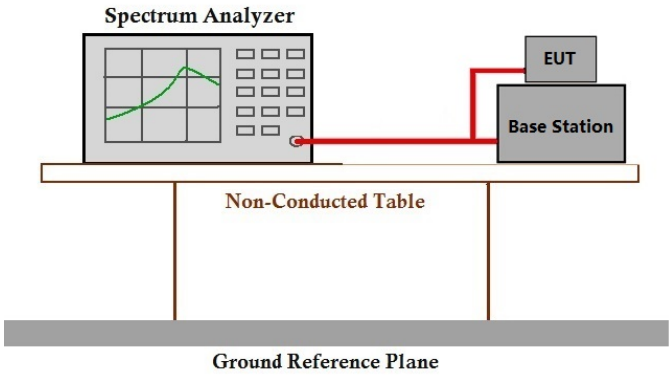
Operating Environment:

Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

6.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode_Keep the EUT in transmitting mode

6.6.3 Test Setup Diagram



6.6.4 Measurement Procedure and Data

Please refer to Appendix for LTE test data.

6.7 Field strength of spurious radiation

Test Requirement §2.1051, §22.917, §24.238, §27.50(g), §27.50(h), §27.50(m), §90.691

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤ -13dBm (**LTE Band2,4,5,12,17,25,26b**)

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 **Band26a**:

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

6.7.1 E.U.T. Operation

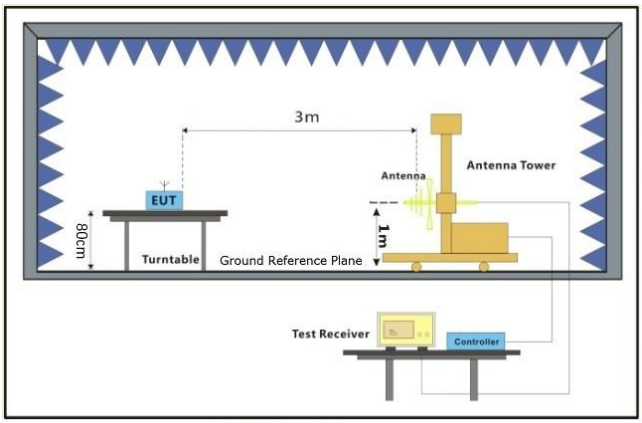
Operating Environment:

Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

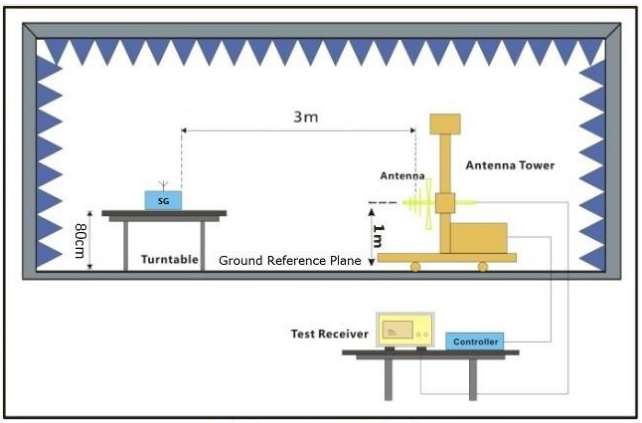
6.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode_Keep the EUT in transmitting mode

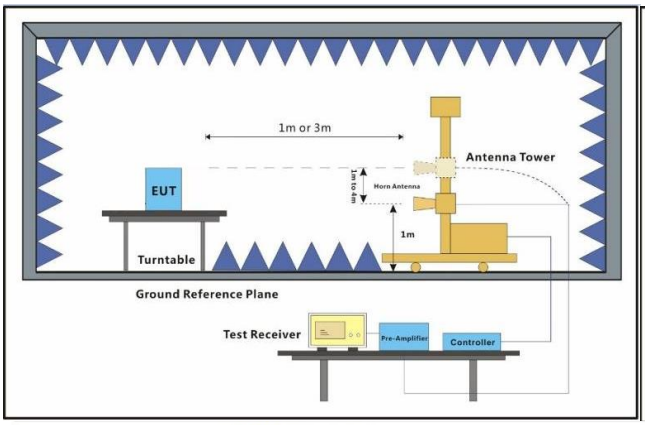
6.7.3 Test Setup Diagram



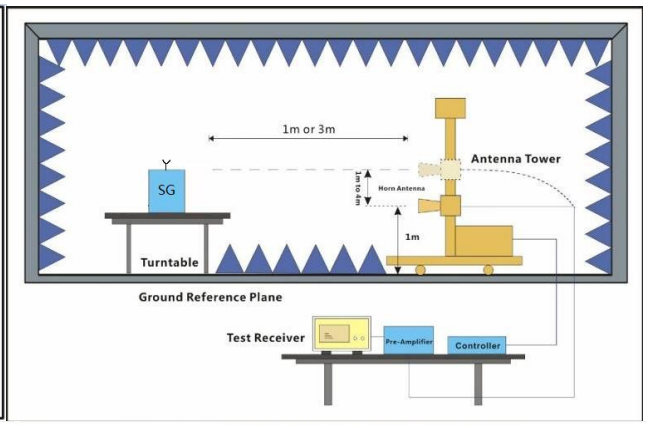
EUT



Substiute Antenna+Signal Generator



EUT



Substiute Antenna+Signal Generator

6.7.4 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
3702	-50.86	-13	-37.86	-53.08	6.99	9.21	Horizontal	Pass
5553	-46.06	-13	-33.06	-48.38	8.27	10.59	Horizontal	Pass
7404	-45.1	-13	-32.1	-48.64	8.19	11.73	Horizontal	Pass
3702	-50.24	-13	-37.24	-52.46	6.99	9.21	Vertical	Pass
5553	-46.6	-13	-33.6	-48.92	8.27	10.59	Vertical	Pass
7404	-44.73	-13	-31.73	-48.27	8.19	11.73	Vertical	Pass

FDD LTE Band2-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3742	-51.1	-13	-38.1	-53.32	6.99	9.21	Horizontal	Pass
5613	-48.9	-13	-35.9	-51.22	8.27	10.59	Horizontal	Pass
7484	-43.87	-13	-30.87	-47.41	8.19	11.73	Horizontal	Pass
3742	-51	-13	-38	-53.22	6.99	9.21	Vertical	Pass
5613	-48.38	-13	-35.38	-50.7	8.27	10.59	Vertical	Pass
7484	-44.61	-13	-31.61	-48.15	8.19	11.73	Vertical	Pass

FDD LTE Band2-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3782	-50.67	-13	-37.67	-52.89	6.99	9.21	Horizontal	Pass
5673	-48.51	-13	-35.51	-50.83	8.27	10.59	Horizontal	Pass
7564	-44.15	-13	-31.15	-47.98	8.43	12.26	Horizontal	Pass
3782	-50.76	-13	-37.76	-52.98	6.99	9.21	Vertical	Pass
5673	-47.46	-13	-34.46	-49.78	8.27	10.59	Vertical	Pass
7564	-43.44	-13	-30.44	-47.27	8.43	12.26	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
3422	-50.1	-13	-37.1	-52.68	5.72	8.3	Horizontal	Pass
5133	-46.73	-13	-33.73	-48.73	8.3	10.3	Horizontal	Pass
6844	-45.97	-13	-32.97	-49.52	7.7	11.25	Horizontal	Pass
3422	-51.37	-13	-38.37	-53.95	5.72	8.3	Vertical	Pass
5133	-46.81	-13	-33.81	-48.81	8.3	10.3	Vertical	Pass
6844	-46.85	-13	-33.85	-50.4	7.7	11.25	Vertical	Pass

FDD LTE Band4-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447	-50.24	-13	-37.24	-52.82	5.72	8.3	Horizontal	Pass
5170.5	-47.78	-13	-34.78	-49.78	8.3	10.3	Horizontal	Pass
6894	-47.26	-13	-34.26	-50.81	7.7	11.25	Horizontal	Pass
3447	-50.84	-13	-37.84	-53.42	5.72	8.3	Vertical	Pass
5170.5	-46.71	-13	-33.71	-48.71	8.3	10.3	Vertical	Pass
6894	-46.19	-13	-33.19	-49.74	7.7	11.25	Vertical	Pass

FDD LTE Band4-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472	-50.48	-13	-37.48	-53.06	5.72	8.3	Horizontal	Pass
5208	-47.22	-13	-34.22	-49.22	8.3	10.3	Horizontal	Pass
6944	-45.47	-13	-32.47	-49.02	7.7	11.25	Horizontal	Pass
3472	-50.36	-13	-37.36	-52.94	5.72	8.3	Vertical	Pass
5208	-46.46	-13	-33.46	-48.46	8.3	10.3	Vertical	Pass
6944	-46.11	-13	-33.11	-49.66	7.7	11.25	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
1649	-47.86	-13	-34.86	-49.37	3.77	7.43	Horizontal	Pass
2473.5	-54.12	-13	-41.12	-54.3	4.75	7.08	Horizontal	Pass
3298	-51.33	-13	-38.33	-51.76	5.72	8.3	Horizontal	Pass
1649	-49.04	-13	-36.04	-50.55	3.77	7.43	Vertical	Pass
2473.5	-55.33	-13	-42.33	-55.51	4.75	7.08	Vertical	Pass
3298	-51.91	-13	-38.91	-52.34	5.72	8.3	Vertical	Pass

FDD LTE Band5-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1664	-47.33	-13	-34.33	-48.84	3.77	7.43	Horizontal	Pass
2496	-54.81	-13	-41.81	-54.99	4.75	7.08	Horizontal	Pass
3328	-51.19	-13	-38.19	-51.62	5.72	8.3	Horizontal	Pass
1664	-49.45	-13	-36.45	-50.96	3.77	7.43	Vertical	Pass
2496	-55.3	-13	-42.3	-55.48	4.75	7.08	Vertical	Pass
3328	-52.06	-13	-39.06	-52.49	5.72	8.3	Vertical	Pass

FDD LTE Band5-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1679	-48.91	-13	-35.91	-50.42	3.77	7.43	Horizontal	Pass
2518.5	-55.38	-13	-42.38	-55.7	5.13	7.6	Horizontal	Pass
3358	-50.63	-13	-37.63	-51.06	5.72	8.3	Horizontal	Pass
1679	-49.83	-13	-36.83	-51.34	3.77	7.43	Vertical	Pass
2518.5	-54.81	-13	-41.81	-55.13	5.13	7.6	Vertical	Pass
3358	-51.72	-13	-38.72	-52.15	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
5002	-47.9	-25	-22.9	-49.9	8.3	10.3	Horizontal	Pass
7503	-43.95	-25	-18.95	-47.78	8.43	12.26	Horizontal	Pass
10004	-41.83	-25	-16.83	-44.08	11.12	13.37	Horizontal	Pass
5002	-46.91	-25	-21.91	-48.91	8.3	10.3	Vertical	Pass
7503	-44.13	-25	-19.13	-47.96	8.43	12.26	Vertical	Pass
10004	-42.57	-25	-17.57	-44.82	11.12	13.37	Vertical	Pass

FDD LTE Band7-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5052	-47.37	-25	-22.37	-49.37	8.3	10.3	Horizontal	Pass
7578	-43.7	-25	-18.7	-47.53	8.43	12.26	Horizontal	Pass
10104	-41.88	-25	-16.88	-44.13	11.12	13.37	Horizontal	Pass
5052	-46.8	-25	-21.8	-48.8	8.3	10.3	Vertical	Pass
7578	-44.9	-25	-19.9	-48.73	8.43	12.26	Vertical	Pass
10104	-42.14	-25	-17.14	-44.39	11.12	13.37	Vertical	Pass

FDD LTE Band7-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5102	-46.91	-25	-21.91	-48.91	8.3	10.3	Horizontal	Pass
7653	-43.2	-25	-18.2	-47.03	8.43	12.26	Horizontal	Pass
10204	-42.6	-25	-17.6	-44.85	11.12	13.37	Horizontal	Pass
5102	-48.23	-25	-23.23	-50.23	8.3	10.3	Vertical	Pass
7653	-44.5	-25	-19.5	-48.33	8.43	12.26	Vertical	Pass
10204	-42.66	-25	-17.66	-44.91	11.12	13.37	Vertical	Pass

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	-44.5	-13	-31.5	-44.88	2.64	5.17	Horizontal	Pass
2098.5	-57.61	-13	-44.61	-57.79	4.75	7.08	Horizontal	Pass
2798	-53.75	-13	-40.75	-54.07	5.13	7.6	Horizontal	Pass
1399	-46.28	-13	-33.28	-46.66	2.64	5.17	Vertical	Pass
2098.5	-56.3	-13	-43.3	-56.48	4.75	7.08	Vertical	Pass
2798	-54.14	-13	-41.14	-54.46	5.13	7.6	Vertical	Pass

FDD LTE Band12-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406	-43.88	-13	-30.88	-44.26	2.64	5.17	Horizontal	Pass
2109	-56.72	-13	-43.72	-56.9	4.75	7.08	Horizontal	Pass
2812	-53.44	-13	-40.44	-53.76	5.13	7.6	Horizontal	Pass
1406	-45.18	-13	-32.18	-45.56	2.64	5.17	Vertical	Pass
2109	-57.18	-13	-44.18	-57.36	4.75	7.08	Vertical	Pass
2812	-54.38	-13	-41.38	-54.7	5.13	7.6	Vertical	Pass

FDD LTE Band12-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413	-44.14	-13	-31.14	-44.52	2.64	5.17	Horizontal	Pass
2119.5	-57.64	-13	-44.64	-57.82	4.75	7.08	Horizontal	Pass
2826	-54.37	-13	-41.37	-54.69	5.13	7.6	Horizontal	Pass
1413	-46.76	-13	-33.76	-47.14	2.64	5.17	Vertical	Pass
2119.5	-58.01	-13	-45.01	-58.19	4.75	7.08	Vertical	Pass
2826	-54.68	-13	-41.68	-55	5.13	7.6	Vertical	Pass

FDD LTE Band17-Low channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1409	-43.35	-13	-30.35	-43.73	2.64	5.17	Horizontal	Pass
2113.5	-57.83	-13	-44.83	-58.01	4.75	7.08	Horizontal	Pass
2818	-54.66	-13	-41.66	-54.98	5.13	7.6	Horizontal	Pass
1409	-44.49	-13	-31.49	-44.87	2.64	5.17	Vertical	Pass
2113.5	-57.66	-13	-44.66	-57.84	4.75	7.08	Vertical	Pass
2818	-53.48	-13	-40.48	-53.8	5.13	7.6	Vertical	Pass

FDD LTE Band17-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1411	-43.96	-13	-30.96	-44.34	2.64	5.17	Horizontal	Pass
2116.5	-57.04	-13	-44.04	-57.22	4.75	7.08	Horizontal	Pass
2822	-55.05	-13	-42.05	-55.37	5.13	7.6	Horizontal	Pass
1411	-44.69	-13	-31.69	-45.07	2.64	5.17	Vertical	Pass
2116.5	-57.87	-13	-44.87	-58.05	4.75	7.08	Vertical	Pass
2822	-55.08	-13	-42.08	-55.4	5.13	7.6	Vertical	Pass

FDD LTE Band17-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413	-43.58	-13	-30.58	-43.96	2.64	5.17	Horizontal	Pass
2119.5	-57.73	-13	-44.73	-57.91	4.75	7.08	Horizontal	Pass
2826	-54.84	-13	-41.84	-55.16	5.13	7.6	Horizontal	Pass
1413	-42.73	-13	-29.73	-43.11	2.64	5.17	Vertical	Pass
2119.5	-58.35	-13	-45.35	-58.53	4.75	7.08	Vertical	Pass
2826	-54.5	-13	-41.5	-54.82	5.13	7.6	Vertical	Pass

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
3702	-51.08	-13	-38.08	-53.3	6.99	9.21	Horizontal	Pass
5553	-46.97	-13	-33.97	-49.29	8.27	10.59	Horizontal	Pass
7404	-44.12	-13	-31.12	-47.66	8.19	11.73	Horizontal	Pass
3702	-50.03	-13	-37.03	-52.25	6.99	9.21	Vertical	Pass
5553	-47.12	-13	-34.12	-49.44	8.27	10.59	Vertical	Pass
7404	-43.85	-13	-30.85	-47.39	8.19	11.73	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
3747	-50.92	-13	-37.92	-53.14	6.99	9.21	Horizontal	Pass
5620.5	-48.02	-13	-35.02	-50.34	8.27	10.59	Horizontal	Pass
7494	-44.86	-13	-31.86	-48.4	8.19	11.73	Horizontal	Pass
3747	-49.49	-13	-36.49	-51.71	6.99	9.21	Vertical	Pass
5620.5	-48.45	-13	-35.45	-50.77	8.27	10.59	Vertical	Pass
7494	-44.63	-13	-31.63	-48.17	8.19	11.73	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
3782	-49.87	-13	-36.87	-52.09	6.99	9.21	Horizontal	Pass
5673	-47.68	-13	-34.68	-50	8.27	10.59	Horizontal	Pass
7564	-43.43	-13	-30.43	-47.26	8.43	12.26	Horizontal	Pass
3782	-49.62	-13	-36.62	-51.84	6.99	9.21	Vertical	Pass
5673	-47.63	-13	-34.63	-49.95	8.27	10.59	Vertical	Pass
7564	-43.34	-13	-30.34	-47.17	8.43	12.26	Vertical	Pass

FDD LTE Band26a-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
1633.5	-41.36	-13	-28.36	-42.87	3.77	7.43	Horizontal	Pass
2450.25	-50.28	-13	-37.28	-50.46	4.75	7.08	Horizontal	Pass
3267	-52.04	-13	-39.04	-52.47	5.72	8.3	Horizontal	Pass
1633.5	-41.47	-13	-28.47	-42.98	3.77	7.43	Vertical	Pass
2450.25	-51.1	-13	-38.1	-51.28	4.75	7.08	Vertical	Pass
3267	-50.89	-13	-37.89	-51.32	5.72	8.3	Vertical	Pass

FDD LTE Band26a-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
1638.5	-42.98	-13	-29.98	-44.49	3.77	7.43	Horizontal	Pass
2457.75	-55.25	-13	-42.25	-55.43	4.75	7.08	Horizontal	Pass
3277	-51.63	-13	-38.63	-52.06	5.72	8.3	Horizontal	Pass
1638.5	-42.32	-13	-29.32	-43.83	3.77	7.43	Vertical	Pass
2457.75	-53.2	-13	-40.2	-53.38	4.75	7.08	Vertical	Pass
3277	-51.47	-13	-38.47	-51.9	5.72	8.3	Vertical	Pass

FDD LTE Band26a-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
1629	-41.31	-13	-28.31	-42.82	3.77	7.43	Horizontal	Pass
2443.5	-56.49	-13	-43.49	-56.67	4.75	7.08	Horizontal	Pass
3258	-51.7	-13	-38.7	-52.13	5.72	8.3	Horizontal	Pass
1629	-42.56	-13	-29.56	-44.07	3.77	7.43	Vertical	Pass
2443.5	-56.8	-13	-43.8	-56.98	4.75	7.08	Vertical	Pass
3258	-51.6	-13	-38.6	-52.03	5.72	8.3	Vertical	Pass

FDD LTE Band26b-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	-44.06	-13	-31.06	-45.57	3.77	7.43	Horizontal	Pass
2474.25	-54.82	-13	-41.82	-55	4.75	7.08	Horizontal	Pass
3299	-51.76	-13	-38.76	-52.19	5.72	8.3	Horizontal	Pass
1649.5	-44.07	-13	-31.07	-45.58	3.77	7.43	Vertical	Pass
2474.25	-55.09	-13	-42.09	-55.27	4.75	7.08	Vertical	Pass
3299	-52.66	-13	-39.66	-53.09	5.72	8.3	Vertical	Pass

FDD LTE Band26b-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	-43.25	-13	-30.25	-44.76	3.77	7.43	Horizontal	Pass
2489.25	-55.35	-13	-42.35	-55.53	4.75	7.08	Horizontal	Pass
3319	-52.25	-13	-39.25	-52.68	5.72	8.3	Horizontal	Pass
1659.5	-42.7	-13	-29.7	-44.21	3.77	7.43	Vertical	Pass
2489.25	-55.73	-13	-42.73	-55.91	4.75	7.08	Vertical	Pass
3319	-52.02	-13	-39.02	-52.45	5.72	8.3	Vertical	Pass

FDD LTE Band26b-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	-43.4	-13	-30.4	-44.91	3.77	7.43	Horizontal	Pass
2504.25	-55.03	-13	-42.03	-55.35	5.13	7.6	Horizontal	Pass
3339	-51.14	-13	-38.14	-51.57	5.72	8.3	Horizontal	Pass
1669.5	-42.92	-13	-29.92	-44.43	3.77	7.43	Vertical	Pass
2504.25	-55.26	-13	-42.26	-55.58	5.13	7.6	Vertical	Pass
3339	-50.52	-13	-37.52	-50.95	5.72	8.3	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
5142	-47.54	-25	-22.54	-49.54	8.3	10.3	Horizontal	Pass
7713	-45.09	-25	-20.09	-48.92	8.43	12.26	Horizontal	Pass
10284	-41.83	-25	-16.83	-44.08	11.12	13.37	Horizontal	Pass
5142	-46.69	-25	-21.69	-48.69	8.3	10.3	Vertical	Pass
7713	-45.34	-25	-20.34	-49.17	8.43	12.26	Vertical	Pass
10284	-41.7	-25	-16.7	-43.95	11.12	13.37	Vertical	Pass

FDD LTE Band38-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5172	-49.19	-25	-24.19	-51.19	8.3	10.3	Horizontal	Pass
7758	-45.41	-25	-20.41	-49.24	8.43	12.26	Horizontal	Pass
10344	-42.78	-25	-17.78	-45.03	11.12	13.37	Horizontal	Pass
5172	-47.76	-25	-22.76	-49.76	8.3	10.3	Vertical	Pass
7758	-45.15	-25	-20.15	-48.98	8.43	12.26	Vertical	Pass
10344	-42.2	-25	-17.2	-44.45	11.12	13.37	Vertical	Pass

FDD LTE Band38-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5202	-47.59	-25	-22.59	-49.59	8.3	10.3	Horizontal	Pass
7803	-46.54	-25	-21.54	-50.37	8.43	12.26	Horizontal	Pass
10404	-43.21	-25	-18.21	-45.46	11.12	13.37	Horizontal	Pass
5202	-47.92	-25	-22.92	-49.92	8.3	10.3	Vertical	Pass
7803	-44.7	-25	-19.7	-48.53	8.43	12.26	Vertical	Pass
10404	-43	-25	-18	-45.25	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
5012	-41.9	-25	-16.9	-43.9	8.3	10.3	Horizontal	Pass
7518	-43.79	-25	-18.79	-47.62	8.43	12.26	Horizontal	Pass
10024	-41.45	-25	-16.45	-43.7	11.12	13.37	Horizontal	Pass
5012	-41.36	-25	-16.36	-43.36	8.3	10.3	Vertical	Pass
7518	-43.43	-25	-18.43	-47.26	8.43	12.26	Vertical	Pass
10024	-41.25	-25	-16.25	-43.5	11.12	13.37	Vertical	Pass

FDD LTE Band41-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5186	-41.21	-25	-16.21	-43.21	8.3	10.3	Horizontal	Pass
7779	-45.6	-25	-20.6	-49.43	8.43	12.26	Horizontal	Pass
10372	-42.85	-25	-17.85	-45.1	11.12	13.37	Horizontal	Pass
5186	-41.62	-25	-16.62	-43.62	8.3	10.3	Vertical	Pass
7779	-45.41	-25	-20.41	-49.24	8.43	12.26	Vertical	Pass
10372	-41.86	-25	-16.86	-44.11	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
5360	-42.05	-25	-17.05	-44.05	8.3	10.3	Horizontal	Pass
8040	-42.19	-25	-17.19	-45.44	9.43	12.68	Horizontal	Pass
10720	-41.73	-25	-16.73	-44.15	11.06	13.48	Horizontal	Pass
5360	-40.79	-25	-15.79	-42.79	8.3	10.3	Vertical	Pass
8040	-42.1	-25	-17.1	-45.35	9.43	12.68	Vertical	Pass
10720	-41.21	-25	-16.21	-43.63	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.

6.8 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.

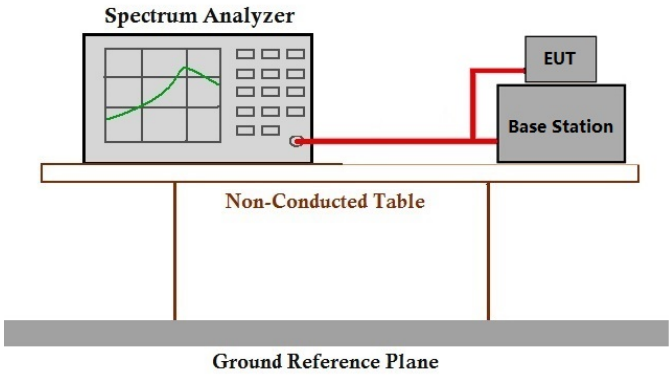
6.8.1 E.U.T. Operation

Operating Environment:
Temperature: 26.1 °C Humidity: 51.0 % RH Atmospheric Pressure: 1020 mbar

6.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode_Keep the EUT in transmitting mode

6.8.3 Test Setup Diagram



6.8.4 Measurement Procedure and Data

Please refer to Appendix for LTE test data.

7 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2207000285AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2207000285AT

- End of the Report -