

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300074502

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TEST REPORT

Application No.: SZCR2303000745AT

Applicant: Leax Arkivator Telecom USA Inc.

Address of Applicant: 833 E Arapaho Rd Suite 203, Richardson, Texas 75081 United States

Manufacturer: Leax Arkivator Telecom USA Inc.

Address of Manufacturer: 833 E Arapaho Rd Suite 203, Richardson, Texas 75081 United States

Factory: Leax Arkivator Telecom USA Inc.

Address of Factory: 833 E Arapaho Rd Suite 203, Richardson, Texas 75081 United States

Equipment Under Test (EUT):

EUT Name: CAT12 Module Model No.: MGA6230A

FCC ID: 2AVFNMGA6230A 47 CFR Part 2 47 CFR Part 22 subpart H Standard(s):

47 CFR Part 24 subpart E 47 CFR Part 27 subpart C

Date of Receipt: 2023-03-20

2023-03-28 to 2023-04-25 Date of Test:

2023-05-15 Date of Issue:

Test Result: Pass

EMC Laboratory Manager



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



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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2023-05-15		Original		

Authorized for issue by:		
	Bonson Wong	
	Benson Wang/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	\$2.1046 \$22.913 \$24.232 \$27.50(b) \$27.50(c) \$27.50(d)	ERP≤ 7W(B5) EIRP≤ 2W(B2) ERP≤ 3W(B13) ERP≤ 3W(B12,71) EIRP≤ 1W(B4,66)	PASS
Peak-Average Ratio	§22.913 §24.232 §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(c) \$27.50(g) \$27.50(h)	≤ -13dBm (B5) ≤ -13dBm (B2) Refer to clause 6.4 for B13 ≤ -13dBm (B12,71) ≤ -13dBm (B4,66)	PASS
Spurious emissions at antenna terminals	\$2.1051 \$22.917 \$24.238 \$27.50(c) \$27.50(g) \$27.50(h)	≤ -13dBm (B5) ≤ -13dBm (B2) Refer to clause 6.5 for B13 ≤ -13dBm (B12,71) ≤ -13dBm (B4,66)	PASS
Field strength of spurious radiation	\$2.1051 \$22.917 \$24.238 \$27.50(c) \$27.50(g) \$27.50(h)	≤ -13dBm (B5) ≤ -13dBm (B2) Refer to clause 6.5 for B13 ≤ -13dBm (B12,71) ≤ -13dBm (B4,66)	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54	≤ ±2.5ppm.	PASS

Note: The test items except radiated spurious emission of inter band CA were cover by LTE single carrier due to the CA power is reduced according to 3GPP MPR.





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4 General Information

4.1 Details of E.U.T.

Power supply:	POE Passive Injector powered by Adapter						
	Adapter 1 Model No.: ASSA107A-240050						
	Input: AC 1						
	Output: DC 24V 500mA						
	Adapter 2 Model No.: TPA298H-12240-US						
	•			2240-08			
	Input: AC 1		0/60Hz;				
0.11()	Output: DC						
Cable(s):	Network ca						
	Cable of Ad	•					
	Cable of Ad	•	ishielded 13	34cm			
Sample Type:	Mobile prod						
LTE Operation Frequency Band:	LTE FDD B		12,13,66,71				
	CA: 2A-12A						
Modulation Type:	QPSK, 160	QAM,64QAN	Л				
LTE Power Class:	3						
Antenna Type:	Panel Ante	nna					
	LTE	ANT0	ANT1	ANT2	ANT3	Direction	
	Band	TRX0	RX1	TRX2	RX3	al Gain	
	2	6.83	/	9.48	/	8.35	
	4	7.24	/	9.19	/	8.32	
	5	6.18	/	/	/	/	
	12	/	/	0.85	/	/	
	13	5.43	/	/	/	/	
Antenna Gain:	66	7.24	/	9.19	/	8.32	
Antonna Gam.	71	/	/	0.18	/	/	
	Remark 1: Band 2/4/66:						
	1) ANT0 and ANT2 can Simultaneous transmission,						
	2) They are uncorrelated.						
	3) ANT0 is primarily Antenna; ANT2 is Secondary Antenna						
	7, 1410 to printed by Articollina, Artife to Occordary Articollina						
	Remark 2: Band 5/13: Only support ANT0;						
	Remark 3: Band 12/71: Only support ANT2;						

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.





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4.2 Test Frequency

Tiz Test Trequency	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
LTE FDD Band 2	5	1852.5	1880	1907.5
LIE FDD Band 2	10	1855.0	1880	1905.0
	15	1857.5	1880	1902.5
	20	1860.0	1880	1900.0
	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
LTE FDD Band 4	5	1712.5	1732.5	1752.5
LIE FDD Ballu 4	10	1715.0	1732.5	1750.0
	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0
	Nominal	RF Channel		
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
	1.4	824.7	836.5	848.3
LTE FDD Band 5	3	825.5	836.5	847.5
LIE FDD Band 3	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
	Nominal		RF Channel	
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)
	(IVIIIZ)	MHz	MHz	MHz
	1.4	699.7	707.5	715.3
LTE FDD Band 12	3	700.5	707.5	714.5
ETET DD Danu 12	5	701.5	707.5	713.5
	10	704.0	707.5	711.0





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	Nominal	RF Channel		
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
LTE FDD Band 13	5	779.5	782.0	784.5
LIE PDD Band 13	10	/	782.0	/
	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	1.4	1710.7	1745.0	1779.3
	3	1711.5	1745.0	1778.5
LTE FDD Band 66	5	1712.5	1745.0	1777.5
LIE PDD Band 66	10	1715.0	1745.0	1775.0
	15	1717.5	1745.0	1772.5
	20	1720.0	1745.0	1770.0
	Nominal	RF Channel		
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	5	665.5	680.5	695.5
LTE FDD Band 71	10	668.0	680.5	693.0
LIE FDD Ballu / I	15	670.5	680.5	690.5
	20	673.0	680.5	688.0



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4.3 Test Environment

Environment Parameter	Selected Values During Tests		
Relative Humidity	52%		
Atmospheric Pressure:	1015Pa		
	TL	-30°C	
Temperature:	TN	+20°C	
	TH	+50°C	
	VL	DC 20.4 V	
Voltage:	VN	DC 24 V	
	VH	DC 27.6 V	

NOTE: VL= lower extreme test voltage

VN= nominal voltage

VH= upper extreme test voltage
TL= lower extreme test temperature

TN= normal temperature

TH= upper extreme test temperature

4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Development Boards	Provided by applicant	N/A	N/A





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4.5 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	Dedicted Courieus emission tost	± 3.1dB (Below 1GHz)
/	Radiated Spurious emission test	± 4.4dB (Above 1GHz)
8	Temperature test	± 1°C
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%



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4.6 Test Location

All tests were performed at:

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

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

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 Test Facility

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

A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None





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5 Equipment List

RF test system					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Shielding Room	SAEMC	MSR733	SEM001-09	2022-05-14	2025-05-13
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-17	2023-03-20	2024-03-14
Mobile Communications DC Source	Agilent	66319D	SEM011-12	2022-05-07	2023-05-06
Manual Step Attenuator	KEYSIGHT	8494B SEM021-05		2022-04-07 2023-04-06	2023-04-06 2024-04-05
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2022-04-07 2023-04-06	2023-04-06 2024-04-05
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2022-04-07 2023-04-06	2023-04-06 2024-04-05
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2022-03-29 2023-03-28	2023-03-28 2024-03-27
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022-04-07 2023-04-06	2023-04-06 2024-04-05
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
EXA Signal Analyzer (10Hz-44GHz)	Agilent Technologies Inc	N9010A	SEM004-12	2022-04-07 2023-04-06	2023-04-06 2024-04-05
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2021-09-17	2023-09-16
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021-09-26	2024-09-25
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2022-09-15	2023-09-14
Microwave System Amplifier(0.5-26.5GHz)	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20



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Pre-amplifier (26- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022-03-22 2023-03-21	2023-03-21 2024-03-20
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022-08-07	2025-08-06
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2022-07-12	2023-07-11
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-06	2022-07-08	2023-07-07

RE in Chamber					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2020-06-26	2023-06-25
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2022-07-12	2023-07-11
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07

General used equipmen	t				
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
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-20	2024-03-19





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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)

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

Limit: ERP≤7W(LTE Band 5)

EIRP≤ 2W(LTE Band 2) EIRP≤ 1W(LTE Band 4, 66) ERP≤ 3W(LTE Band 12, 13, 71)

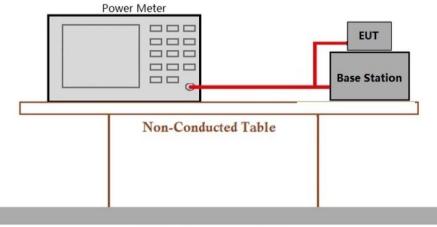
6.1.1 E.U.T. Operation

Operating Environment:

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

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

6.1.2 Test Setup Diagram



Ground Reference Plane

6.1.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.2 Peak-Average Ratio

Test Requirement: §22.913,§24.232,§27.50(d)

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

Limit: ≤13dB

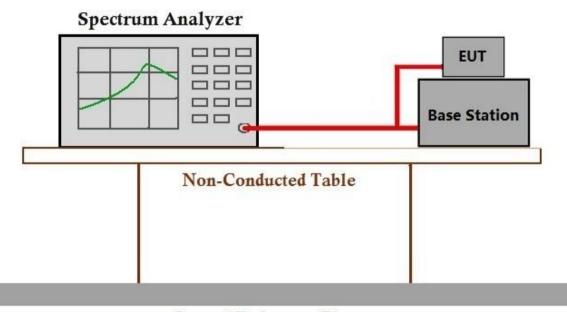
6.2.1 E.U.T. Operation

Operating Environment:

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

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

6.2.2 Test Setup Diagram



Ground Reference Plane

6.2.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.3 Bandwidth

Test Requirement: §2.1049(h)

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

Limit: OBW: No limit

EBW: No limit

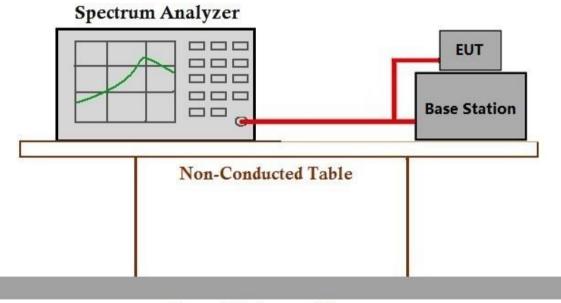
6.3.1 E.U.T. Operation

Operating Environment:

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

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

6.3.2 Test Setup Diagram



Ground Reference Plane

6.3.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.4 Band Edge Compliance

Test Requirement: §2.1051,§22.917,§24.238,§27.50(c),§27.50(g),§27.50(h)

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

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

For band 13:

(1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power

(P) by at least 43 + 10 log (P) dB;

(2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and

portable stations

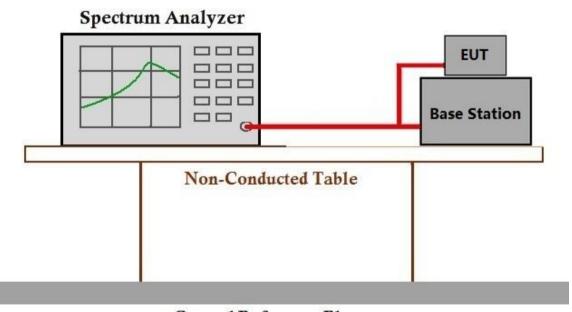
6.4.1 E.U.T. Operation

Operating Environment:

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

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

6.4.2 Test Setup Diagram



Ground Reference Plane

6.4.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051,§22.917,§24.238,§27.50(c),§27.50(g),§27.50(h)

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

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

For band 13:

(1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power

(P) by at least 43 + 10 log (P) dB;

(2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and

portable stations

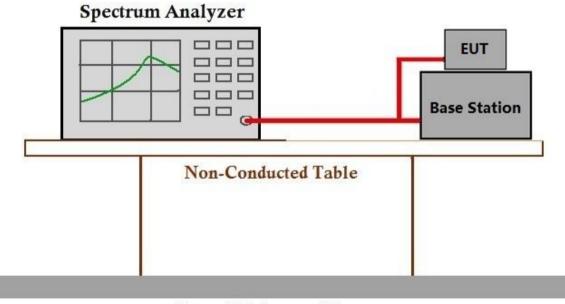
6.5.1 E.U.T. Operation

Operating Environment:

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

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

6.5.2 Test Setup Diagram



Ground Reference Plane

6.5.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.6 Field strength of spurious radiation

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

§27.53(a),§27.53(n),§96.41(e),§90.691

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

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

For band 13:

(1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power

(P) by at least 43 + 10 log (P) dB;

(2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and

portable stations

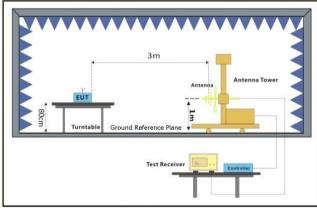
6.6.1 E.U.T. Operation

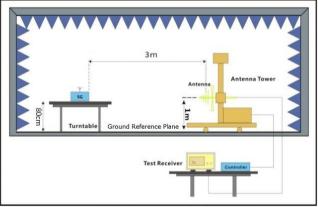
Operating Environment:

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

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

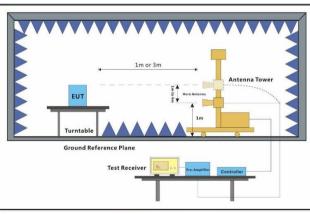
6.6.2 Test Setup Diagram

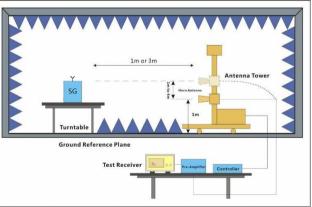




EUT

Substiute Antenna+Signal Generator





EUT

Substiute Antenna+Signal Generator



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6.6.3 Measurement Procedure and Data

Test Procedure:

- (1)On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3)The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6)The transmitter shall 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.



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	LTE Band2, Modulation: QPSK, Bandwidth: 1.4MHZ, Channel: Low, 1 RB0											
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result			
3700.14	32.3	5.88	34.74	-61.04	-46.27	-13	-33.27	Horizontal	Pass			
5550.21	34.6	7.75	34.52	-63.11	-44.27	-13	-31.27	Horizontal	Pass			
7400.28	35.9	8.69	35.48	-60.25	-41.02	-13	-28.02	Horizontal	Pass			
3700.14	32.3	5.88	34.74	-61.41	-46.64	-13	-33.64	Vertical	Pass			
5550.21	34.6	7.75	34.52	-62.1	-43.26	-13	-30.26	Vertical	Pass			
7400.28	35.9	8.69	35.48	-58.88	-39.65	-13	-26.65	Vertical	Pass			

	LTE B	and2, Mo	dulation: QPS	SK, Bandv	vidth: 1.4	MHZ, Cha	nnel: Middle,	1 RB0	
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result
3758.74	32.55	5.96	34.72	-60.86	-45.71	-13	-32.71	Horizontal	Pass
5638.11	34.5	7.84	34.54	-62.24	-43.71	-13	-30.71	Horizontal	Pass
7517.48	36.04	8.8	35.51	-59.88	-40.57	-13	-27.57	Horizontal	Pass
3758.74	32.55	5.96	34.72	-62.33	-47.18	-13	-34.18	Vertical	Pass
5638.11	34.5	7.84	34.54	-63	-44.47	-13	-31.47	Vertical	Pass
7517.48	36.04	8.8	35.51	-60.09	-40.78	-13	-27.78	Vertical	Pass

	LTE Band2, Modulation: QPSK, Bandwidth: 1.4MHZ, Channel: High, 1 RB0											
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result			
3758.74	32.55	5.96	34.72	-62.33	-47.18	-13	-34.18	Horizontal	Pass			
5638.11	34.5	7.84	34.54	-63	-44.47	-13	-31.47	Horizontal	Pass			
7517.48	36.04	8.8	35.51	-60.09	-40.78	-13	-27.78	Horizontal	Pass			
3817.34	32.77	6.04	34.71	-62.17	-46.69	-13	-33.69	Vertical	Pass			
5726.01	34.5	7.92	34.56	-64.85	-46.54	-13	-33.54	Vertical	Pass			
7634.68	36.17	8.9	35.53	-63.82	-44.14	-13	-31.14	Vertical	Pass			



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	LTE Band4, Modulation: QPSK, Bandwidth: 1.4MHZ, Channel: Low, 1 RB0											
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result			
3420.14	31.7	5.48	34.82	-46.09	-32.43	-13	-19.43	Horizontal	Pass			
5130.21	34.04	7.34	34.41	-64.7	-46.25	-13	-33.25	Horizontal	Pass			
6840.28	35.58	8.3	35.27	-54.57	-35.44	-13	-22.44	Horizontal	Pass			
3420.14	31.7	5.48	34.82	-42.12	-28.46	-13	-15.46	Vertical	Pass			
5130.21	34.04	7.34	34.41	-59.69	-41.24	-13	-28.24	Vertical	Pass			
6840.28	35.58	8.3	35.27	-53.49	-34.36	-13	-21.36	Vertical	Pass			

	LTE B	and4, Mo	dulation: QPS	SK, Bandv	vidth: 1.4	MHZ, Cha	nnel: Middle,	1 RB0	
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result
3463.74	31.73	5.54	34.81	-48.97	-35.23	-13	-22.23	Horizontal	Pass
5195.61	34	7.41	34.43	-65.26	-46.85	-13	-33.85	Horizontal	Pass
6927.48	35.66	8.31	35.34	-59.03	-39.73	-13	-26.73	Horizontal	Pass
3463.74	31.73	5.54	34.81	-39.81	-26.07	-13	-13.07	Vertical	Pass
5195.61	34	7.41	34.43	-62.27	-43.86	-13	-30.86	Vertical	Pass
6927.48	35.66	8.31	35.34	-54.34	-35.04	-13	-22.04	Vertical	Pass

	LTE	Band4, Mo	LTE Band4, Modulation: QPSK, Bandwidth: 1.4MHZ, Channel: High, 1 RB0											
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result					
3507.34	31.8	5.61	34.8	-46	-32.13	-13	-19.13	Horizontal	Pass					
5261.01	34.04	7.48	34.45	-60.84	-42.4	-13	-29.4	Horizontal	Pass					
7014.68	35.83	8.33	35.39	-51.97	-32.43	-13	-19.43	Horizontal	Pass					
3507.34	31.8	5.61	34.8	-45.54	-31.67	-13	-18.67	Vertical	Pass					
5261.01	34.04	7.48	34.45	-60.25	-41.81	-13	-28.81	Vertical	Pass					
7014.68	35.83	8.33	35.39	-50.48	-30.94	-13	-17.94	Vertical	Pass					



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	LTE Band5, Modulation: QPSK, Bandwidth: 1.4MHZ, Channel: Low, 1 RB0											
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result			
1648.14	26.69	3.43	36.16	-46.87	-42.79	-13	-29.79	Horizontal	Pass			
2472.21	29.23	4.33	35.17	-63.33	-54.14	-13	-41.14	Horizontal	Pass			
3296.28	31.59	5.29	34.86	-60.58	-47.2	-13	-34.2	Horizontal	Pass			
1648.14	26.69	3.43	36.16	-47.09	-43.01	-13	-30.01	Vertical	Pass			
2472.21	29.23	4.33	35.17	-60.48	-51.29	-13	-38.29	Vertical	Pass			
3296.28	31.59	5.29	34.86	-55.74	-42.36	-13	-29.36	Vertical	Pass			

	LTE B	and5, Mo	dulation: QPS	SK, Bandv	vidth: 1.4	MHZ, Cha	nnel: Middle,	1 RB0	
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result
1671.74	26.74	3.46	36.1	-48.23	-43.99	-13	-30.99	Horizontal	Pass
2507.61	29.42	4.37	35.15	-61.94	-52.86	-13	-39.86	Horizontal	Pass
3343.48	31.6	5.36	34.85	-59.02	-45.58	-13	-32.58	Horizontal	Pass
1671.74	26.74	3.46	36.1	-47.41	-43.17	-13	-30.17	Vertical	Pass
2507.61	29.42	4.37	35.15	-61.3	-52.22	-13	-39.22	Vertical	Pass
3343.48	31.6	5.36	34.85	-56.55	-43.11	-13	-30.11	Vertical	Pass

	LTE	Band5, Mo	odulation: QF	LTE Band5, Modulation: QPSK, Bandwidth: 1.4MHZ, Channel: High, 1 RB0											
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result						
1695.34	26.79	3.48	36.05	-48.87	-44.49	-13	-31.49	Horizontal	Pass						
2543.01	29.49	4.4	35.14	-58.41	-49.14	-13	-36.14	Horizontal	Pass						
3390.68	31.68	5.44	34.83	-56.68	-43.08	-13	-30.08	Horizontal	Pass						
1695.34	26.79	3.48	36.05	-45.38	-41	-13	-28	Vertical	Pass						
2543.01	29.49	4.4	35.14	-59.08	-49.81	-13	-36.81	Vertical	Pass						
3390.68	31.68	5.44	34.83	-57.16	-43.56	-13	-30.56	Vertical	Pass						



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	LTE E	Band12, M	lodulation: Q	PSK, Ban	dwidth: 1.	4MHZ, CI	nannel: Low,	1 RB0	
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result
1398.14	25	3.1	36.8	-62.88	-58.98	-13	-45.98	Horizontal	Pass
2097.21	28.49	3.93	35.35	-61.68	-55	-13	-42	Horizontal	Pass
2796.28	29.5	4.64	35.04	-64.64	-54.45	-13	-41.45	Horizontal	Pass
1398.14	25	3.1	36.8	-62.21	-58.31	-13	-45.31	Vertical	Pass
2097.21	28.49	3.93	35.35	-63.43	-56.75	-13	-43.75	Vertical	Pass
2796.28	29.5	4.64	35.04	-64.75	-54.56	-13	-41.56	Vertical	Pass

	LTE Ba	and12, Mo	dulation: QP	SK, Band	width: 1.4	MHZ, Cha	annel: Middle	, 1 RB0	
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result
1413.74	25.06	3.12	36.76	-62.36	-58.76	-13	-45.76	Horizontal	Pass
2120.61	28.42	3.95	35.34	-63.11	-56.48	-13	-43.48	Horizontal	Pass
2827.48	29.61	4.66	35.02	-64.13	-53.72	-13	-40.72	Horizontal	Pass
1413.74	25.06	3.12	36.76	-62.23	-58.63	-13	-45.63	Vertical	Pass
2120.61	28.42	3.95	35.34	-63.08	-56.45	-13	-43.45	Vertical	Pass
2827.48	29.61	4.66	35.02	-64.13	-53.72	-13	-40.72	Vertical	Pass

	LTE B	Band12. M	lodulation: QI	PSK. Ban	dwidth: 1.	4MHZ. Ch	nannel: High.	LTE Band12, Modulation: QPSK, Bandwidth: 1.4MHZ, Channel: High, 1 RB0											
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result										
1429.34	25.12	3.15	36.72	-61.23	-57.91	-13	-44.91	Horizontal	Pass										
2144.01	28.32	3.98	35.32	-62.26	-55.7	-13	-42.7	Horizontal	Pass										
2858.68	29.73	4.69	35.01	-64.69	-54.06	-13	-41.06	Horizontal	Pass										
1429.34	25.12	3.15	36.72	-61.78	-58.46	-13	-45.46	Vertical	Pass										
2144.01	28.32	3.98	35.32	-62.42	-55.86	-13	-42.86	Vertical	Pass										
2858.68	29.73	4.69	35.01	-63.84	-53.21	-13	-40.21	Vertical	Pass										



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	LTE	Band13, I	Modulation: C	QPSK, Bai	ndwidth: 5	MHZ, Ch	annel: Low, 1	I RB0	
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result
1554.5	25.95	3.31	36.39	-61.5	-58.62	-13	-45.62	Horizontal	Pass
2331.75	28.53	4.19	35.23	-62.04	-55.07	-13	-42.07	Horizontal	Pass
3109	31.4	4.99	34.92	-62.99	-50.07	-13	-37.07	Horizontal	Pass
1554.5	25.95	3.31	36.39	-59.81	-56.93	-13	-43.93	Vertical	Pass
2331.75	28.53	4.19	35.23	-63.11	-56.14	-13	-43.14	Vertical	Pass
3109	31.4	4.99	34.92	-62.96	-50.04	-13	-37.04	Vertical	Pass

	LTE B	and13, Mo	odulation: 160	QAM, Bar	dwidth: 5	MHZ, Cha	nnel: Middle	, 1 RB0	
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result
1559.5	26.02	3.32	36.38	-60.22	-57.24	-40	-17.24	Horizontal	Pass
2339.25	28.56	4.2	35.23	-62.45	-55.45	-13	-42.45	Horizontal	Pass
3119	31.4	5.01	34.92	-63.05	-50.11	-13	-37.11	Horizontal	Pass
1559.5	26.02	3.32	36.38	-55.42	-52.44	-40	-12.44	Vertical	Pass
2339.25	28.56	4.2	35.23	-61.14	-54.14	-13	-41.14	Vertical	Pass
3119	31.4	5.01	34.92	-64.17	-51.23	-13	-38.23	Vertical	Pass

	LTE E	Band13, M	lodulation: 64	IQAM, Ba	ndwidth: (LTE Band13, Modulation: 64QAM, Bandwidth: 5MHZ, Channel: High, 1 RB0												
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result									
1564.5	26.08	3.32	36.36	-61.63	-58.57	-40	-18.57	Horizontal	Pass									
2346.75	28.59	4.2	35.23	-63.01	-55.98	-13	-42.98	Horizontal	Pass									
3129	31.4	5.03	34.92	-63.66	-50.71	-13	-37.71	Horizontal	Pass									
1564.5	26.08	3.32	36.36	-59.95	-56.89	-40	-16.89	Vertical	Pass									
2346.75	28.59	4.2	35.23	-62.8	-55.77	-13	-42.77	Vertical	Pass									
3129	31.4	5.03	34.92	-63.55	-50.6	-13	-37.6	Vertical	Pass									



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	LTE E	Band66, M	lodulation: Q	PSK, Ban	dwidth: 1.	4MHZ, Cł	nannel: Low,	1 RB0	
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result
3420.14	31.7	5.48	34.82	-41.76	-28.1	-13	-15.1	Horizontal	Pass
5130.21	34.04	7.34	34.41	-56.63	-38.18	-13	-25.18	Horizontal	Pass
6840.28	35.58	8.3	35.27	-52.17	-33.04	-13	-20.04	Horizontal	Pass
3420.14	31.7	5.48	34.82	-38.57	-24.91	-13	-11.91	Vertical	Pass
5130.21	34.04	7.34	34.41	-58.81	-40.36	-13	-27.36	Vertical	Pass
6840.28	35.58	8.3	35.27	-49.73	-30.6	-13	-17.6	Vertical	Pass

	LTE Ba	nd66, Mo	dulation: 16C	AM, Band	dwidth: 1.4	4MHZ, Ch	annel: Middle	e, 1 RB0	
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result
3463.74	31.73	5.54	34.81	-43.06	-29.32	-13	-16.32	Horizontal	Pass
5195.61	34	7.41	34.43	-54.94	-36.53	-13	-23.53	Horizontal	Pass
6927.48	35.66	8.31	35.34	-47.79	-28.49	-13	-15.49	Horizontal	Pass
3463.74	31.73	5.54	34.81	-36.66	-22.92	-13	-9.92	Vertical	Pass
5195.61	34	7.41	34.43	-58.03	-39.62	-13	-26.62	Vertical	Pass
6927.48	35.66	8.31	35.34	-49.02	-29.72	-13	-16.72	Vertical	Pass

	LTE Band66, Modulation: 64QAM, Bandwidth: 1.4MHZ, Channel: High, 1 RB0											
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result			
3507.34	31.8	5.61	34.8	-42.79	-28.92	-13	-15.92	Horizontal	Pass			
5261.01	34.04	7.48	34.45	-54.1	-35.66	-13	-22.66	Horizontal	Pass			
7014.68	35.83	8.33	35.39	-41.7	-22.16	-13	-9.16	Horizontal	Pass			
3507.34	31.8	5.61	34.8	-38.92	-25.05	-13	-12.05	Vertical	Pass			
5261.01	34.04	7.48	34.45	-51.29	-32.85	-13	-19.85	Vertical	Pass			
7014.68	35.83	8.33	35.39	-45.77	-26.23	-13	-13.23	Vertical	Pass			



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	LTE	Band71, I	Modulation: C	QPSK, Ba	ndwidth: 5	MHZ, Ch	annel: Low, 1	I RB0	
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result
1326.5	24.81	3	37.01	-47.52	-42.14	-13	-29.14	Horizontal	Pass
1989.75	28.02	3.8	35.42	-61.69	-55.59	-13	-42.59	Horizontal	Pass
2653	29.59	4.51	35.09	-62.1	-52.31	-13	-39.31	Horizontal	Pass
1326.5	24.81	3	37.01	-48.08	-42.7	-13	-29.7	Vertical	Pass
1989.75	28.02	3.8	35.42	-63.76	-57.66	-13	-44.66	Vertical	Pass
2653	29.59	4.51	35.09	-61.63	-51.84	-13	-38.84	Vertical	Pass

	LTE Band71, Modulation: 16QAM, Bandwidth: 5MHZ, Channel: Middle, 1 RB0										
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result		
1356.5	24.91	3.04	36.92	-46.18	-41.41	-13	-28.41	Horizontal	Pass		
2034.75	28.31	3.85	35.38	-64.79	-58.36	-13	-45.36	Horizontal	Pass		
2713	29.5	4.56	35.07	-63.14	-53.24	-13	-40.24	Horizontal	Pass		
1356.5	24.91	3.04	36.92	-46.95	-42.18	-13	-29.18	Vertical	Pass		
2034.75	28.31	3.85	35.38	-63.36	-56.93	-13	-43.93	Vertical	Pass		
2713	29.5	4.56	35.07	-62.3	-52.4	-13	-39.4	Vertical	Pass		

	LTE Band71, Modulation: 64QAM, Bandwidth: 5MHZ, Channel: High, 1 RB0											
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result			
1386.5	24.97	3.09	36.84	-46.13	-42	-13	-29	Horizontal	Pass			
2079.75	28.46	3.91	35.36	-63.41	-56.78	-13	-43.78	Horizontal	Pass			
2773	29.5	4.62	35.05	-61.38	-51.27	-13	-38.27	Horizontal	Pass			
1386.5	24.97	3.09	36.84	-46.99	-42.86	-13	-29.86	Vertical	Pass			
2079.75	28.46	3.91	35.36	-62.72	-56.09	-13	-43.09	Vertical	Pass			
2773	29.5	4.62	35.05	-62.1	-51.99	-13	-38.99	Vertical	Pass			





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	CA2A-12A, Modulation: QPSK, Bandwidth: 20MHZ& 20MHZ, Channel: Low, 1 RB0											
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result			
1328	24.81	3	37.01	-47.52	-42.18	-13	-29.18	Horizontal	Pass			
1992	28.04	3.8	35.42	-62.65	-56.54	-13	-43.54	Horizontal	Pass			
2656	29.59	4.51	35.09	-62.71	-52.92	-13	-39.92	Horizontal	Pass			
1328	24.81	3	37.01	-47.46	-42.12	-13	-29.12	Vertical	Pass			
1992	28.04	3.8	35.42	-62.18	-56.07	-13	-43.07	Vertical	Pass			
2656	29.59	4.51	35.09	-62.43	-52.64	-13	-39.64	Vertical	Pass			

(CA2A-12A, Modulation: QPSK, Bandwidth: 20MHZ& 20MHZ, Channel: Middle, 1 RB0										
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result		
1348	24.89	3.03	36.95	-47.89	-42.95	-13	-29.95	Horizontal	Pass		
2022	28.23	3.84	35.39	-62.81	-56.47	-13	-43.47	Horizontal	Pass		
2696	29.51	4.55	35.08	-63.07	-53.22	-13	-40.22	Horizontal	Pass		
1348	24.89	3.03	36.95	-47.07	-42.13	-13	-29.13	Vertical	Pass		
2022	28.23	3.84	35.39	-63.03	-56.69	-13	-43.69	Vertical	Pass		
2696	29.51	4.55	35.08	-62.72	-52.87	-13	-39.87	Vertical	Pass		

	CA2A-12A, Modulation: QPSK, Bandwidth: 20MHZ& 20MHZ, Channel: High, 1 RB0											
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result			
1358	24.92	3.04	36.92	-47.18	-42.44	-13	-29.44	Horizontal	Pass			
2037	28.32	3.86	35.38	-60.86	-54.41	-13	-41.41	Horizontal	Pass			
2716	29.5	4.56	35.07	-62.51	-52.6	-13	-39.6	Horizontal	Pass			
1358	24.92	3.04	36.92	-46.44	-41.7	-13	-28.7	Vertical	Pass			
2037	28.32	3.86	35.38	-63.79	-57.34	-13	-44.34	Vertical	Pass			
2716	29.5	4.56	35.07	-64.12	-54.21	-13	-41.21	Vertical	Pass			



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	CA12A-66A, Modulation: QPSK, Bandwidth: 20MHZ& 20MHZ, Channel: Low, 1 RB0										
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result		
3422	31.7	5.48	34.82	-38.62	-24.96	-13	-11.96	Horizontal	Pass		
5133	34.03	7.35	34.41	-57.55	-39.1	-13	-26.1	Horizontal	Pass		
6844	35.59	8.3	35.28	-51.55	-32.41	-13	-19.41	Horizontal	Pass		
3422	31.7	5.48	34.82	-37.59	-23.93	-13	-10.93	Vertical	Pass		
5133	34.03	7.35	34.41	-60.57	-42.12	-13	-29.12	Vertical	Pass		
6844	35.59	8.3	35.28	-53.89	-34.75	-13	-21.75	Vertical	Pass		

C	CA12A-66A, Modulation: QPSK, Bandwidth: 20MHZ& 20MHZ, Channel: Middle, 1 RB0										
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result		
3447	31.7	5.52	34.82	-38.57	-24.89	-13	-11.89	Horizontal	Pass		
5170.5	34	7.38	34.42	-59	-40.59	-13	-27.59	Horizontal	Pass		
6894	35.6	8.3	35.31	-52.14	-32.93	-13	-19.93	Horizontal	Pass		
3447	31.7	5.52	34.82	-38.31	-24.63	-13	-11.63	Vertical	Pass		
5170.5	34	7.38	34.42	-59.22	-40.81	-13	-27.81	Vertical	Pass		
6894	35.6	8.3	35.31	-49.98	-30.77	-13	-17.77	Vertical	Pass		

(CA12A-66A, Modulation: QPSK, Bandwidth: 20MHZ& 20MHZ, Channel: High, 1 RB0											
Frequency (MHz)	LISN_ Factor (dB)	Cable_ Loss (dB)	Preamp_ Gain (dB)	Read_ Level (dBm)	Level (dBm)	Limit_ Line (dBm)	Over - 13DBM	Polarization (H/V)	Result			
3472	31.74	5.56	34.81	-37.95	-24.19	-13	-11.19	Horizontal	Pass			
5208	34	7.42	34.43	-56.6	-38.19	-13	-25.19	Horizontal	Pass			
6944	35.69	8.31	35.35	-54.08	-34.73	-13	-21.73	Horizontal	Pass			
3472	31.74	5.56	34.81	-37.73	-23.97	-13	-10.97	Vertical	Pass			
5208	34	7.42	34.43	-59.52	-41.11	-13	-28.11	Vertical	Pass			
6944	35.69	8.31	35.35	-49.91	-30.56	-13	-17.56	Vertical	Pass			

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.



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6.7 Frequency stability

Test Requirement: §2.1055,§22.355,§24.235,§27.54

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

Limit: $\leq \pm 2.5$ ppm.

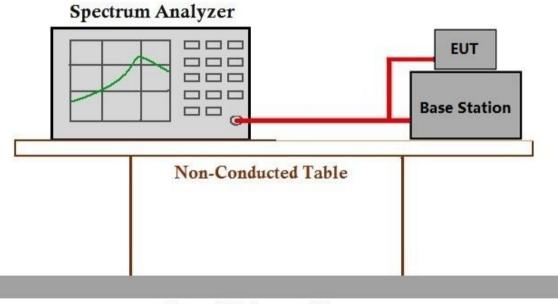
6.7.1 E.U.T. Operation

Operating Environment:

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

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

6.7.2 Test Setup Diagram



Ground Reference Plane

6.7.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.8 Modulation Characteristics

Test Requirement: §2.1047

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

Limit: Digital modulation

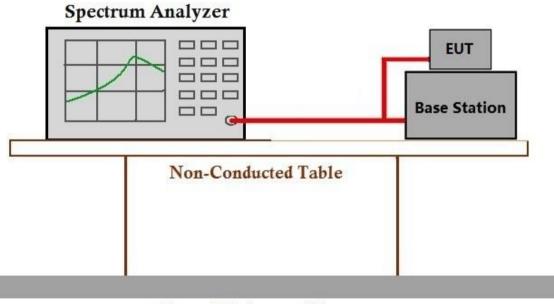
6.8.1 E.U.T. Operation

Operating Environment:

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

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

6.8.2 Test Setup Diagram



Ground Reference Plane

6.8.3 Measurement Data

Pass, it's a digital modulation device.



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7 Test Setup Photo

Refer to Appendix - SetupPhoto for SZCR2303000745AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for SZCR2303000745AT

- End of the Report -

