

SZEMC-TRF-01 Rev A/1

Report No.: SZCR241000393902 Page: 1 of 28

# TEST REPORT

**Application No.:** SZCR2410003939MO Applicant: Telit Communications S.p.A.

Address of Applicant: Via Stazione di Prosecco 5/b, 34010 Sgonico - Trieste, Italy

Manufacturer: Telit Communications S.p.A.

Address of Manufacturer: Via Stazione di Prosecco 5/b, 34010 Sgonico – Trieste, Italy

Factory: FUYU PRECISION COMPONENT CO., LTD

Address of Factory: Lot M1, Lot F and Lot T1 Quang Chau Industrial Zone, Van Trung Ward,

Viet Yen Town, Bac Giang Province, Vietnam

**Equipment Under Test (EUT):** 

**EUT Name:** Radio Module Model No.: LE910Q1-SN Trade Mark: **Telit Cinterion** FCC ID: RI7LE910Q1SN 47 CFR Part 2 Standard(s): 47 CFR Part 22

47 CFR Part 24 47 CFR Part 27

Date of Receipt: 2024-10-24

Date of Test: 2024-10-25 to 2024-11-01

Date of Issue: 2024-11-04

**Test Result: Pass** 

Keny Xu **EMC Laboratory Manager** 



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's indigns at the time of its intervention only and within the limits of client is instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@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

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 2 of 28

	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2024-11-04		Original	

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com"



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 3 of 28

#### 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(LTE Band 5) EIRP≤ 2W(LTE Band 2) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12) EIRP≤ 1W(LTE Band 4,66)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(a) §27.50(d)	≤13dB	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) \$27.53(c)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 6.4 for LTE Band13	PASS
Spurious emissions at antenna terminals	\$2.1051 \$22.917 \$24.238 \$27.50(g) \$27.50(h) \$27.53(c)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 6.5 for LTE Band13	PASS
Field strength of spurious radiation	\$2.1051 \$22.917 \$24.238 \$27.50(g) \$27.50(h) \$27.53(c)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 6.6 for LTE Band13	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54	≤ ±2.5ppm.	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com"



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 4 of 28

## 3 Contents

			Page
1		er Page	
2	Test	Summary	3
3	Cont	tents	4
4	Gene	eral Information	6
	4.1	Details of E.U.T.	6
	4.2	Test Frequency	
	4.3	Test Environment	
	4.4	Description of Support Units	
	4.5	Measurement Uncertainty	
	4.6	Test Location	
	4.7	Test Facility	
	4.8	Deviation from Standards	
	4.9	Abnormalities from Standard Conditions	
5	Faui	pment List	
	•	•	
6	Radi	o Spectrum Matter Test Results	
	6.1	Effective (Isotropic) Radiated Output Power Data	
	6.1.1		
	6.1.2	1 0	
	6.1.3		
	6.2	Peak-Average Ratio	
	6.2.1		
	6.2.2	1 0	
	6.2.3		
	6.3	Bandwidth	
	6.3.1	·	
	6.3.2	1 0	
	6.3.3		
	6.4 6.4.1	Band Edge Compliance  E.U.T. Operation	
	6.4.2	·	
	6.4.3	, ,	
	6.5	Spurious emissions at antenna terminals	
	6.5.1	•	
	6.5.2	•	
	6.5.3	, ,	
	6.6	Field strength of spurious radiation	
	6.6.1	· ·	
	6.6.2	·	
	6.6.3	, ,	
	6.7	Frequency stability	
	6.7.1	· · · · · · · · · · · · · · · · · · ·	
		•	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com"

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com

No.1Workshop, Mrl. (Mide Sedion, Steine & Technology Pat, Nanshan Distric, Shenzhan, 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号广房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@esgs.com



SZEMC-TRF-01	Ray A/1

Report No.: SZCR2	24100039390	)2
Page:	5 of	2

			Page:	5 of 28
	6.7.2	Test Setup Diagram		27
		Measurement Data		
7	Test S	Setup Photo		28
8	EUT C	constructional Details (EUT Photos)		28



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com"



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000393902

> Page: 6 of 28

## **General Information**

### 4.1 Details of E.U.T.

Power supply: DC3.8V

Cable Loss (for RF conducted

test):

Below 1GHz: 0.5dB, 1GHz~2GHz:0.7dB, Above 2GHz: 1dB

Sample Type: Mobile production LTE Operation Frequency Band: LTE B2/4/5/12/13/66

Modulation Type: QPSK, 16QAM

LTE Power Class: Level 3

Antenna Type: External Antenna

LTE B2: 2.17dBi, B4: 2.17dBi, B5: 5.17dBi, B12: 3.17dBi, Antenna Gain:

B13: 3.17dBi, B66: 2.17dBi

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

to the fullest extent of the law. Offices office the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, | No.1 Workshop, M-10, Middle Section, Science & Technology Park, Narishan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 7 of 28

## 4.2 Test Frequency

	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	5	1852.5	1880	1907.5
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	1751.5
LTE FDD	5	1712.5	1732.5	1752.5
Band 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)
	(IVIT12)	MHz	MHz	MHz
	1.4	824.7	836.5	848.3
LTE FDD	3	825.5	836.5	847.5
Band 5	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)
	(1411 12)	MHz	MHz	MHz
	1.4	699.7	707.5	715.3
LTE FDD	3	700.5	707.5	714.5
Band 12	5	701.5	707.5	713.5
	10	704.0	707.5	711.0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com"

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com

No.1 Workshop, Nr.10, Midde Section, Science & Technology Part, 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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 8 of 28

	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
LTE FDD	5	779.5	782.0	784.5
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	5	1712.5	1745.0	1777.5
Band 66	10	1715.0	1745.0	1775.0
	15	1717.5	1745.0	1772.5
	20	1720.0	1745.0	1770.0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com"

Mo.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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 9 of 28

#### 4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	3.4 Vdc
	VN	3.8 Vdc
	VH	4.2 Vdc

NOTE: VL= lower extreme test voltage

VN= nominal voltage

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

TN= normal temperature

TH= upper extreme test temperature

## 4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Debug board	Telit Communications S.p.A.	E248779	

## 4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 5.4 x 10 <sup>-8</sup>
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 test	± 3.1dB (Below 1GHz)
<b>'</b>	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%



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@sgs.com"

No.1 Workshop, Mr.10, Midde Section, Science & Technology Park, Narshan 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



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000393902

Page: 10 of 28

#### 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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Clien's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

to the fullest extent of the land of the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Midde 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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 11 of 28

#### 5 **Equipment List**

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2024-07-10	2025-07-09
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-20	2025-03-19
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2024-03-14	2025-03-13
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA- 50-1	SEM021-09	2024-03-27	2025-03-26
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2024-03-20	2025-03-19

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2023-09-23	2025-09-22
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022-08-07	2025-08-06
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2024-09-14	2025-09-13



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com"

or email: CN. <u>Doccheck@sgs.com</u> No.1 Workshop, M-10, Midde Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.group.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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 12 of 28

Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021-09-26	2024-09-25
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2024-03-15	2025-03-14
Substitution Antenna	Rohde & Schwarz	HF907	SEM003-06	2024-08-03	2025-08-02
Substitution Antenna	ETS-LINDGREN	3160-09	SEM003-12	2024-08-03	2025-08-02
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024-03-27	2025-03-26
Universal Radio Communication Tester	Anritsu	MT8000A	SEM010-10	2024-3-14	2025-3-13

General used equipment										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
Humidity- Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23					
Humidity- Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-22	2025-03-21					



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com"

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com

No.1 Workshop, Nr.10, Midde Section, Science & Technology Part, 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



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000393902

Page: 13 of 28

## 6 Radio Spectrum Matter Test Results

## 6.1 Effective (Isotropic) Radiated Output Power Data

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

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

Limit: ERP≤ 7W(LTE Band 5)

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

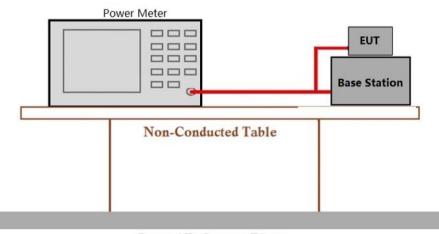
### 6.1.1 E.U.T. Operation

**Operating Environment:** 

Temperature: 22.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

to the fullest extent of the land of the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@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.sgs.group.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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 14 of 28

## 6.2 Peak-Average Ratio

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

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

Limit: ≤13dB

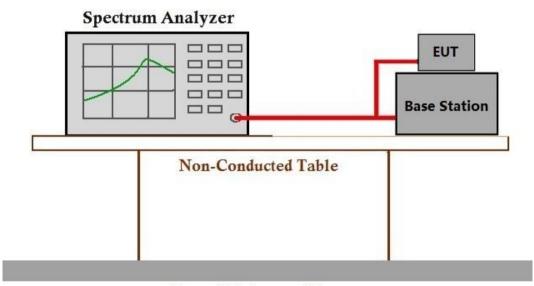
### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

to the fullest extent of the law. Offices of the sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Kanshan Districk, 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№-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsglrudp.com.



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000393902

Page: 15 of 28

#### 6.3 Bandwidth

Test Requirement: §2.1049(h)

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

Limit: OBW: No limit

EBW: No limit

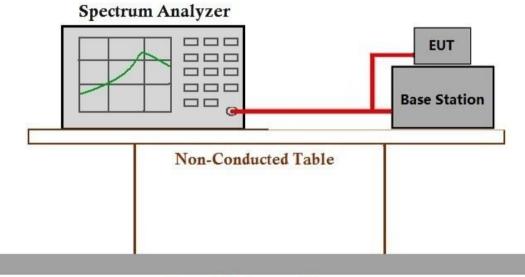
#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is davised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com"

or email: CN\_Doccheck@sgs.com |Mo.1 Workshop, M-10, Midde Sedion, 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



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000393902

Page: 16 of 28

### 6.4 Band Edge Compliance

Test Requirement: §2.1051,§22.917,§24.238, §27.50(g),§27.50(h),§27.50(m),§27.53(c)

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

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

For Band 13:

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

least 43 + 10 log (P) dB;

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

portable stations

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

wideband signals.

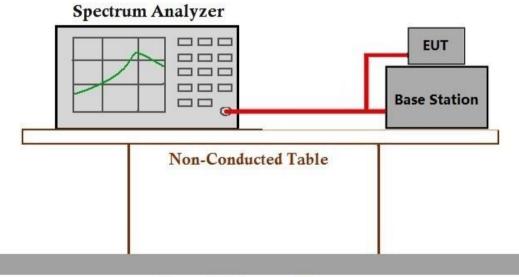
#### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

to the fullest extent of the law. Chiese should be sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@sgs.com

No.1Wortshop, M-10, Midde Section, Science & Technology Park, Nanshan District, Shenzhan, 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



SZEMC-TRF-01 Rev A/1 Report No.: SZCR241000393902

> 17 of 28 Page:

### 6.5 Spurious emissions at antenna terminals

§2.1051,§22.917,§24.238, §27.50(g),§27.50(h),§27.50(m),§27.53(c) Test Requirement:

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

≤ -13dBm (LTE Band2,4,5,12,66) Limit:

For Band 13:

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

least 43 + 10 log (P) dB;

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

portable stations

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

wideband signals.

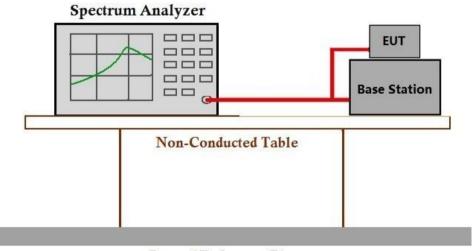
### 6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's sindings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

to the fullest extent of the law. Siness canonics of the full sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

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



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000393902

Page: 18 of 28

## 6.6 Field strength of spurious radiation

Test Requirement: §2.1051,§22.917,§24.238, §27.50(g),§27.50(h),§27.50(m),§27.53(c)

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

Limit: ≤ -13dBm (LTE Band2,4,5,12,66)

For Band 13:

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

least 43 + 10 log (P) dB;

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

portable stations

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

wideband signals.

### 6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode\_Keep the EUT in transmitting mode



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention: Is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

or email: CN.Doccheck@sgs.com |Mo.1 Workshop, M-10, Middle Section, Science & Technology Pari, 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

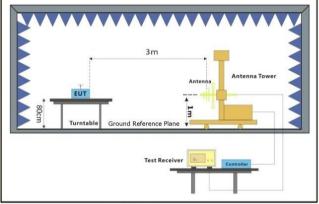


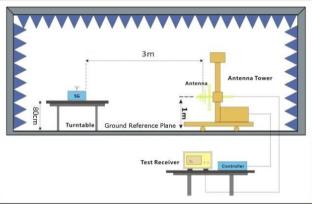
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902

Page: 19 of 28

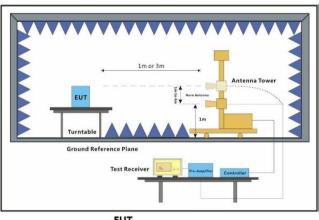
### 6.6.2 Test Setup Diagram

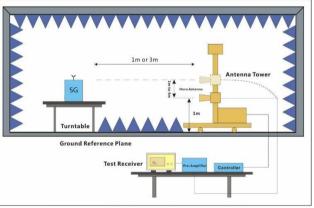




EUT

Substiute Antenna+Signal Generator





EUT

Substiute Antenna+Signal Generator



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@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



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000393902

Page: 20 of 28

#### 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 21 of 28

	LTE Band 2-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1388.708	-60.35	-13	-47.35	-63.6	1.92	5.17	Horizontal	Pass				
8615.126	-49.95	-13	-36.95	-58.5	4.44	12.99	Horizontal	Pass				
9587.228	-49.23	-13	-36.23	-57.56	4.87	13.2	Horizontal	Pass				
2995.538	-54.94	-13	-41.94	-58.89	2.96	6.91	Vertical	Pass				
9322.501	-49.03	-13	-36.03	-57.53	4.73	13.23	Vertical	Pass				
12685.25	-49.88	-13	-36.88	-57.76	5.45	13.33	Vertical	Pass				

	LTE Band 2-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1309.737	-59.89	-13	-46.89	-62.7	1.86	4.67	Horizontal	Pass				
8973.25	-49.99	-13	-36.99	-58.62	4.56	13.19	Horizontal	Pass				
9490.104	-49.02	-13	-36.02	-57.44	4.82	13.24	Horizontal	Pass				
2935.153	-54.69	-13	-41.69	-58.55	2.92	6.78	Vertical	Pass				
9514.293	-48.88	-13	-35.88	-57.28	4.83	13.23	Vertical	Pass				
11312.31	-49.88	-13	-36.88	-58.07	5.06	13.25	Vertical	Pass				

	LTE Band 2-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1260.67	-60.33	-13	-47.33	-62.86	1.83	4.36	Horizontal	Pass				
8571.377	-49.6	-13	-36.6	-58.14	4.42	12.96	Horizontal	Pass				
9514.293	-49.33	-13	-36.33	-57.73	4.83	13.23	Horizontal	Pass				
3003.173	-55.44	-13	-42.44	-59.41	2.96	6.93	Vertical	Pass				
9490.104	-49.24	-13	-36.24	-57.66	4.82	13.24	Vertical	Pass				
12653.0	-50.33	-13	-37.33	-58.22	5.43	13.32	Vertical	Pass				



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com"

Attention: To check the authenticity of testing /inspection reports certificate, please contact us at telephone: (85-75) 830/1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, W-10, Middle Section, Science & Technology Park, Nanshan Districk, 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株1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 22 of 28

	LTE Band 4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1219.635	-60.67	-13	-47.67	-62.97	1.8	4.1	Horizontal	Pass				
8927.683	-50.27	-13	-37.27	-58.89	4.55	13.17	Horizontal	Pass				
9490.104	-48.91	-13	-35.91	-57.33	4.82	13.24	Horizontal	Pass				
2995.538	-55.73	-13	-42.73	-59.68	2.96	6.91	Vertical	Pass				
9514.293	-48.64	-13	-35.64	-57.04	4.83	13.23	Vertical	Pass				
11370.05	-49.98	-13	-36.98	-58.17	5.06	13.25	Vertical	Pass				

	LTE Band 4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1385.177	-60.32	-13	-47.32	-63.55	1.92	5.15	Horizontal	Pass				
8904.986	-50.23	-13	-37.23	-58.84	4.54	13.15	Horizontal	Pass				
9393.966	-48.4	-13	-35.4	-56.86	4.77	13.23	Horizontal	Pass				
2691.804	-53.32	-13	-40.32	-56.78	2.78	6.24	Vertical	Pass				
9417.908	-49.11	-13	-36.11	-57.57	4.78	13.24	Vertical	Pass				
11457.21	-49.27	-13	-36.27	-57.45	5.06	13.24	Vertical	Pass				

	LTE Band 4-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1267.104	-60.7	-13	-47.7	-63.27	1.83	4.4	Horizontal	Pass				
8681.168	-50.39	-13	-37.39	-58.96	4.46	13.03	Horizontal	Pass				
9514.293	-48.57	-13	-35.57	-56.97	4.83	13.23	Horizontal	Pass				
2719.353	-55.68	-13	-42.68	-59.19	2.79	6.3	Vertical	Pass				
9611.663	-48.76	-13	-35.76	-57.07	4.88	13.19	Vertical	Pass				
11428.08	-49.56	-13	-36.56	-57.74	5.06	13.24	Vertical	Pass				



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com"

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN. Doccheck@sgs.com

No.1 Workshop, Nr.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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 23 of 28

	LTE Band 5-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1350.362	-60.29	-13	-47.29	-63.33	1.89	4.93	Horizontal	Pass				
8973.25	-49.78	-13	-36.78	-58.41	4.56	13.19	Horizontal	Pass				
9441.913	-47.75	-13	-34.75	-56.2	4.79	13.24	Horizontal	Pass				
2957.654	-55.14	-13	-42.14	-59.04	2.93	6.83	Vertical	Pass				
9514.293	-48.77	-13	-35.77	-57.17	4.83	13.23	Vertical	Pass				
11457.21	-49.77	-13	-36.77	-57.95	5.06	13.24	Vertical	Pass				

	LTE Band 5-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1374.639	-61.14	-13	-48.14	-64.32	1.91	5.09	Horizontal	Pass				
5060.693	-50.48	-13	-37.48	-56.4	4.26	10.18	Horizontal	Pass				
9417.908	-48.91	-13	-35.91	-57.37	4.78	13.24	Horizontal	Pass				
2935.153	-55.69	-13	-42.69	-59.55	2.92	6.78	Vertical	Pass				
9465.979	-48.7	-13	-35.7	-57.14	4.8	13.24	Vertical	Pass				
11226.25	-49.78	-13	-36.78	-57.97	5.07	13.26	Vertical	Pass				

	LTE Band 5-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
1350.362	-60.79	-13	-47.79	-63.83	1.89	4.93	Horizontal	Pass					
8996.121	-49.84	-13	-36.84	-58.48	4.57	13.21	Horizontal	Pass					
9275.16	-49.24	-13	-36.24	-57.76	4.71	13.23	Horizontal	Pass					
2980.327	-55.57	-13	-42.57	-59.5	2.95	6.88	Vertical	Pass					
9562.854	-48.98	-13	-35.98	-57.34	4.85	13.21	Vertical	Pass					
10778.21	-49.87	-13	-36.87	-58.0	5.07	13.2	Vertical	Pass					



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com"

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com

No.1 Workshop, Nr.10, Midde Section, Science & Technology Part, 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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 24 of 28

	LTE Band 12-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
1225.86	-60.2	-13	-47.2	-62.54	1.8	4.14	Horizontal	Pass					
8506.17	-49.78	-13	-36.78	-58.3	4.4	12.92	Horizontal	Pass					
9514.293	-48.53	-13	-35.53	-56.93	4.83	13.23	Horizontal	Pass					
2861.381	-55.04	-13	-42.04	-58.78	2.88	6.62	Vertical	Pass					
9157.857	-49.03	-13	-36.03	-57.6	4.65	13.22	Vertical	Pass					
12653.0	-50.49	-13	-37.49	-58.38	5.43	13.32	Vertical	Pass					

	LTE Band 12-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1461.238	-60.21	-13	-47.21	-63.87	1.97	5.63	Horizontal	Pass				
8419.999	-50.26	-13	-37.26	-58.72	4.37	12.83	Horizontal	Pass				
9441.913	-49.29	-13	-36.29	-57.74	4.79	13.24	Horizontal	Pass				
2698.665	-54.53	-13	-41.53	-58.01	2.78	6.26	Vertical	Pass				
9393.966	-48.82	-13	-35.82	-57.28	4.77	13.23	Vertical	Pass				
10860.83	-50.41	-13	-37.41	-58.57	5.07	13.23	Vertical	Pass				

	LTE Band 12-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
1309.737	-60.12	-13	-47.12	-62.93	1.86	4.67	Horizontal	Pass					
8659.098	-50.32	-13	-37.32	-58.88	4.45	13.01	Horizontal	Pass					
9514.293	-48.32	-13	-35.32	-56.72	4.83	13.23	Horizontal	Pass					
2796.573	-55.03	-13	-42.03	-58.66	2.84	6.47	Vertical	Pass					
9417.908	-49.24	-13	-36.24	-57.7	4.78	13.24	Vertical	Pass					
10999.95	-49.44	-13	-36.44	-57.64	5.07	13.27	Vertical	Pass					



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com"

Mo.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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 25 of 28

	LTE Band 13-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
1371.145	-60.36	-13	-47.36	-63.51	1.91	5.06	Horizontal	Pass					
8814.774	-50.33	-13	-37.33	-58.92	4.51	13.1	Horizontal	Pass					
9490.104	-48.55	-13	-35.55	-56.97	4.82	13.24	Horizontal	Pass					
2987.923	-54.89	-13	-41.89	-58.83	2.95	6.89	Vertical	Pass					
9465.979	-49.2	-13	-36.2	-57.64	4.8	13.24	Vertical	Pass					
11812.58	-49.88	-13	-36.88	-58.08	5.05	13.25	Vertical	Pass					

	LTE Band 13-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
1198.095	-60.78	-13	-47.78	-62.97	1.78	3.97	Horizontal	Pass					
8703.294	-50.15	-13	-37.15	-58.72	4.47	13.04	Horizontal	Pass					
9370.083	-49.1	-13	-36.1	-57.57	4.76	13.23	Horizontal	Pass					
2747.183	-54.92	-13	-41.92	-58.47	2.81	6.36	Vertical	Pass					
9465.979	-48.95	-13	-35.95	-57.39	4.8	13.24	Vertical	Pass					
12397.94	-50.51	-13	-37.51	-58.47	5.28	13.24	Vertical	Pass					

	LTE Band 13-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
1198.095	-60.48	-13	-47.48	-62.67	1.78	3.97	Horizontal	Pass					
5009.426	-50.58	-13	-37.58	-56.47	4.26	10.15	Horizontal	Pass					
9251.58	-49.14	-13	-36.14	-57.67	4.7	13.23	Horizontal	Pass					
2980.327	-54.89	-13	-41.89	-58.82	2.95	6.88	Vertical	Pass					
9490.104	-49.34	-13	-36.34	-57.76	4.82	13.24	Vertical	Pass					
10916.26	-49.7	-13	-36.7	-57.87	5.07	13.24	Vertical	Pass					



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN\_Doccheck@sgs.com"

Mo.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

Member of the SGS Group (SGS SA)



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902 Page: 26 of 28

	LTE Band 66-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
1424.511	-60.91	-13	-47.91	-64.36	1.95	5.4	Horizontal	Pass					
8837.241	-49.91	-13	-36.91	-58.52	4.51	13.12	Horizontal	Pass					
9562.854	-49.41	-13	-36.41	-57.77	4.85	13.21	Horizontal	Pass					
2920.248	-55.26	-13	-42.26	-59.09	2.91	6.74	Vertical	Pass					
9322.501	-48.98	-13	-35.98	-57.48	4.73	13.23	Vertical	Pass					
11341.14	-50.06	-13	-37.06	-58.25	5.06	13.25	Vertical	Pass					

	LTE Band 66-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
1309.737	-59.7	-13	-46.7	-62.51	1.86	4.67	Horizontal	Pass					
8615.126	-50.24	-13	-37.24	-58.79	4.44	12.99	Horizontal	Pass					
9441.913	-49.1	-13	-36.1	-57.55	4.79	13.24	Horizontal	Pass					
2942.635	-55.55	-13	-42.55	-59.41	2.93	6.79	Vertical	Pass					
9490.104	-48.47	-13	-35.47	-56.89	4.82	13.24	Vertical	Pass					
12717.59	-50.23	-13	-37.23	-58.11	5.47	13.35	Vertical	Pass					

	LTE Band 66-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
1340.089	-60.17	-13	-47.17	-63.16	1.88	4.87	Horizontal	Pass					
8747.716	-50.41	-13	-37.41	-58.99	4.48	13.06	Horizontal	Pass					
9322.501	-48.63	-13	-35.63	-57.13	4.73	13.23	Horizontal	Pass					
2950.135	-55.01	-13	-42.01	-58.89	2.93	6.81	Vertical	Pass					
9465.979	-48.34	-13	-35.34	-56.78	4.8	13.24	Vertical	Pass					
11370.05	-50.75	-13	-37.75	-58.94	5.06	13.25	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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@sgs.com"

No.1 Workshop, Mr.10, Midde Section, Science & Technology Park, Narshan 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



SZEMC-TRF-01 Rev A/1

Report No.: SZCR241000393902 Page: 27 of 28

## 6.7 Frequency stability

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

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

Limit: ≤ ±2.5ppm.

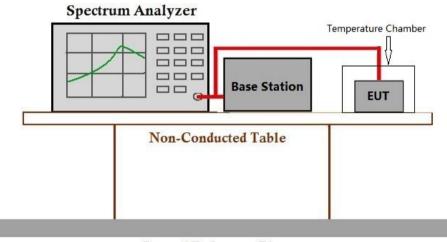
#### 6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@sgs.com"

No.1 Workshop, Mr.10, Midde Section, Science & Technology Park, Narshan 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 Member of the SGS Group (SGS SA)



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241000393902

> Page: 28 of 28

#### 7 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2410003939MO

#### **EUT Constructional Details (EUT Photos)** 8

Refer to Appendix - External and Internal Photos for SZCR2410003939MO

- End of the Report -



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@sgs.com"

| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Narishan 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