

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700274102 Page: 1 of 38

TEST REPORT

Application No.: SZCR2407002741MO 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.

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

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-WW Trade Mark: **Telit Cinterion** FCC ID: RI7LE910Q1WW 47 CFR Part 2 Standard(s): 47 CFR Part 22

47 CFR Part 24 47 CFR Part 27 47 CFR Part 90

Date of Receipt: 2024-07-12

2024-07-16 to 2024-11-20 Date of Test:

2024-11-21 Date of Issue:

Pass Test Result:

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 https://www.sgs.com/en/Terms-and-Conditions. 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 lient'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"

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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700274102 Page: 2 of 38

	Revision Record								
Version	Chapter	Date	Modifier	Remark					
01		2024-11-21		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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102

Page: 3 of 38

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) \$27.50(h) \$27.1507(4) \$90.635	ERP≤ 7W(LTE Band 5,26b) EIRP≤ 2W(LTE Band 2,25) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12) EIRP≤ 1W(LTE Band 4,66) EIRP≤ 2W(LTE Band 7,38,41) ERP≤ 3W(LTE Band 8) ERP≤ 100W(LTE Band 26a)	PASS
Peak-Average Ratio	\$22.913 \$24.232 \$27.50(a) \$27.50(d) \$27.1507(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) \$27.50(m) \$27.53(c) \$27.1509 \$90.691	≤ -13dBm (LTE Band5,26b) ≤ -13dBm (LTE Band2,25) ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 6.4 for LTE Band7,38,41 Refer to clause 6.4 for LTE Band13 ≤ -13dBm (LTE Band8) Refer to clause 6.4 for LTE Band26a	PASS
Spurious emissions at antenna terminals	\$2.1051 \$22.917 \$24.238 \$27.50(g) \$27.50(h) \$27.50(m) \$27.53(c) \$27.1509 \$90.691	≤ -13dBm (LTE Band5,26b) ≤ -13dBm (LTE Band2,25) ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 6.5 for LTE Band7,38,41 Refer to clause 6.5 for LTE Band13 ≤ -13dBm (LTE Band8) Refer to clause 6.5 for LTE Band26a	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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102

> Page: 4 of 38

	§2.1051 §22.917 §24.238	≤ -13dBm (LTE Band5,26b) ≤ -13dBm (LTE Band2,25)	
Field strength of spurious radiation	\$27.50(g) \$27.50(h) \$27.50(m) \$27.53(c) \$27.1509 \$90.691	≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 6.6 for LTE Band7,38,41 Refer to clause 6.6 for LTE Band13 ≤ -13dBm (LTE Band8) Refer to clause 6.6 for LTE Band26a	PASS
Frequency stability	\$2.1055 \$22.355 \$24.235 \$27.54 \$90.213	≤ ±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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 5 of 38

3 Contents

		Page
1	Cover Page	1
2	P Test Summary	3
3	Contents	£
4		7
-		
	4.3 Test Environment	
	4.5 Measurement Uncertainty	
	4.6 Test Location	
	4.7 Test Facility	
	4.8 Deviation from Standards	
	4.9 Abnormalities from Standard Conditions	
5	5 Equipment List	13
6	Radio Spectrum Matter Test Results	15
	6.1 Effective (Isotropic) Radiated Output Power Data	15
	6.1.1 E.U.T. Operation	
	6.1.2 Test Setup Diagram	
	6.1.3 Measurement Data	
	6.2 Peak-Average Ratio	
	6.2.1 E.U.T. Operation	
	6.2.2 Test Setup Diagram	
	6.2.3 Measurement Data	
	6.3 Bandwidth	
	6.3.1 E.U.T. Operation	
	6.3.2 Test Setup Diagram	
	6.3.3 Measurement Data	
	6.4 Band Edge Compliance	
	6.4.1 E.U.T. Operation	
	6.4.2 Test Setup Diagram	
	6.4.3 Measurement Data	
	6.5 Spurious emissions at antenna terminals	
	6.5.1 E.U.T. Operation	20
	6.5.2 Test Setup Diagram	21
	6.5.3 Measurement Data	
	6.6 Field strength of spurious radiation	
	6.6.1 E.U.T. Operation	
	6.6.2 Test Setup Diagram	
	6.6.3 Measurement Procedure and Data	
	6.7 Frequency stability	37
	6.7.1 E.U.T. Operation	37



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 https://www.sgs.com/en/Terms-and-Conditions. 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"

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, 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	t No.:	SZCR240	7002	741	02

	Page:	6 01 38
6.7.2	Test Setup Diagram	37
	Measurement Data	

7	Test Setup Photo	38

8	EUT Constructional Details	(EUT Photos)	3:3



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 https://www.sgs.com/en/Terms-and-Conditions. 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 attelephone: (85-75) 830/1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, II-10, Middle Section, Science & Technology Park, Manshan 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.: SZCR240700274102

> Page: 7 of 38

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 B2/4/5/7/8/12/13/25/26/38/41/66

Modulation Type: QPSK, 16QAM

LTE Power Class: Level 3

Antenna Type: External Antenna

LTE B2: 2.17dBi, B4: 2.17dBi, B5: 5.17dBi, B7: 2.17dBi, B8:

Antenna Gain: 5.17dBi, B12: 3.17dBi, B13: 3.17dBi, B25: 2.17dBi, B26: 5.17dBi,

B38: 2.17dBi, B41: 2.17dBi, 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 https://www.sgs.com/en/Terms-and-Conditions. 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 or the law. Onless outcomes stated and 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700274102 Page: 8 of 38

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 Band 2	5	1852.5	1880	1907.5	
LIE 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 Band 4	5	1712.5	1732.5	1752.5	
LIE 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)	
	(1411 12)	MHz	MHz	MHz	
	1.4	824.7	836.5	848.3	
LTE Band 5	3	825.5	836.5	847.5	
LIL 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	
	5	2502.5	2535.0	2567.5	
LTE Band 7	10	2505.0	2535.0	2565.0	
LIL Dalla 7	15	2507.5	2535.0	2562.5	
	20	2510.0	2535.0	2560.0	



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 https://www.sgs.com/en/Terms-and-Conditions. 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: CM.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.: SZCR240700274102 Page: 9 of 38

Nominal RF Channel					
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
LTE Band 8	1.4	898.2	899.0	8.08	
LIE Danu o	3	/	899.0	/	
	Nominal		RF Channel		
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)	
	(IVITIZ)	MHz	MHz	MHz	
	1.4	699.7	707.5	715.3	
LTE Band 12	3	700.5	707.5	714.5	
LIE Banu 12	5	701.5	707.5	713.5	
	10	704.0	707.5	711.0	
	Nominal		RF Channel		
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
LTE Band 13	5	779.5	782.0	784.5	
LIE Ballu 13	10	/	782.0	/	
	Nominal Bandwidth	RF Channel			
Test mode:		Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
	1.4	1850.7	1882.5	1914.3	
	3	1851.5	1882.5	1913.5	
LTE Band 25	5	1852.5	1882.5	1912.5	
LTE Ballu 25	10	1855.0	1882.5	1910.0	
	15	1857.5	1882.5	1907.5	
	20	1860.0	1882.5	1905.0	
	Nominal		RF Channel		
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
	1.4	814.7	819.0	823.3	
LTE Band	3	815.5	819.0	822.5	
26a	5	816.5	819.0	822.2	
	10	/	819.0	/	



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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 10 of 38

	Nominal	RF Channel			
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
	1.4	824.7	836.5	848.3	
	3	825.5	836.5	847.5	
LTE Band 26b	5	826.5	836.5	846.5	
200	10	829.0	836.5	844.0	
	15	831.5	836.5	841.5	
	Nominal		RF Channel		
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)	
	(1411-12)	MHz	MHz	MHz	
LTE Band 26c	15	821.5	831.5	841.5	
	Nominal		RF Channel		
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)	
	(101112)	MHz	MHz	MHz	
	5	2572.5	2595.0	2617.5	
LTE Band 38	10	2575.0	2595.0	2615.0	
ETE Band 00	15	2577.5	2595.0	2612.5	
	20	2580.0	2595.0	2610.0	
	Nominal	RF Channel			
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)	
	(2)	MHz	MHz	MHz	
	5	2498.5	2593.0	2687.5	
LTE TDD	10	2501.0	2593.0	2685.0	
Band 41	15	2503.5	2593.0	2682.5	
	20	2506.0	2593.0	2680.0	
	Nominal Bandwidth		RF Channel		
Test mode:	(MHz)	Low (L)	Middle (M)	High (H)	
		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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 11 of 38

4.3 Test Environment

Environment Parameter	Selected Values During Tests			
	TL	-30°C		
Temperature:	TN	+20°C		
	TH	+50°C		
	VL	3.4 Vdc		
Voltage:	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 ⁻⁸
2	Duty cycle	± 0.3%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.8dB
5	RF power density	± 0.4dB
6	Conducted Spurious emissions	± 2.7dB
7	Radiated Spurious emission test	± 3.1dB (Below 1GHz)
1	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 https://www.sgs.com/en/Terms-and-Conditions. 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



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240700274102

> Page: 12 of 38

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, 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 https://www.sgs.com/en/Terms-and-Conditions. 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 Arts.

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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

Member of the SGS Group (SGS SA)



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240700274102

> Page: 13 of 38

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	2021-09-25	2024-09-24
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	2023-09-19 2024-09-18	2024-09-18 2025-09-17
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	2022-08-10 2024-08-09	2024-08-09 2026-08-08
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2023-09-19 2024-09-18	2024-09-18 2025-09-17



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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 14 of 38

Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021-09-26 2024-09-25	2024-09-25 2027-09-24
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2024-03-15	2025-03-14
Substitution Antenna	Rohde & Schwarz	HF907	SEM003-06	2022-08-07	2024-08-06
	Ronde & Schwarz	HF907	3EM003-00	2024-08-06	2025-08-05
Substitution Antenna	ETS-LINDGREN	3160-09	SEM003-12	2022-08-10	2024-08-09
	E13-LINDGREN	3100-09	3E1V1003-12	2024-08-09	2026-08-08
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	deli	0020	SEM002-32	2023-07-28	2024-07-27				
Indicator	aeii	8838	3EIVI002-32	2024-07-27	2025-07-26				
Humidity- Temperature	deli	8838	SEM002-33	2023-07-28	2024-07-27				
Indicator	aeii	0030	SEIVI002-33	2024-07-27	2025-07-26				
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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102

> 15 of 38 Page:

Radio Spectrum Matter Test Results 6

6.1 Effective (Isotropic) Radiated Output Power Data

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

§27.1507(4), §90.635

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

ERP≤ 7W(LTE Band 5,26b) Limit:

EIRP≤ 2W(LTE Band 2,25) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12) EIRP≤ 1W(LTE Band 4,66) EIRP≤ 2W(LTE Band 7,38,41)

ERP≤ 3W(LTE Band 8) ERP≤ 100W(LTE Band 26a)

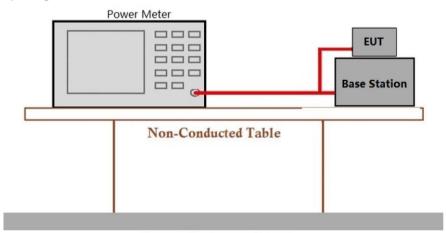
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 51.0 % RH Atmospheric Pressure: 1020 mbar 23.2 °C Humidity:

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, 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 https://www.sgs.com/en/Terms-and-Conditions. 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. Offices outcomes stated and 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, Narishan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700274102 Page: 16 of 38

6.2 Peak-Average Ratio

§22.913,§24.232,§27.50(d), §27.50(d), §27.1507(d) Test Requirement: Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤13dB

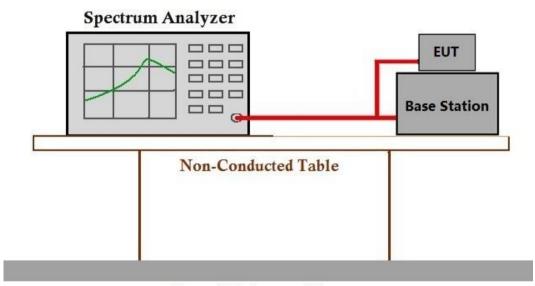
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C 51.0 % RH Atmospheric Pressure: 1020 mbar Humidity:

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, 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 https://www.sgs.com/en/Terms-and-Conditions. 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 on the law. Offices only in 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, Nanshan District, Shenzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

Member of the SGS Group (SGS SA)



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240700274102

> Page: 17 of 38

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

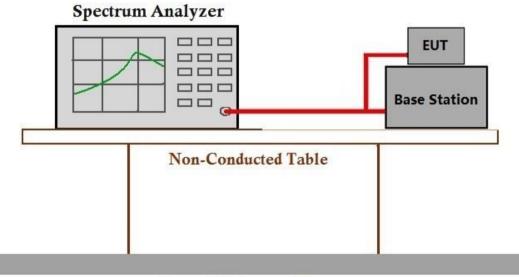
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 51.0 % 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, 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 https://www.sgs.com/en/Terms-and-Conditions., 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: CND.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.: SZCR240700274102

> Page: 18 of 38

6.4 Band Edge Compliance

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

§27,1509, §90,691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01 Limit: ≤ -13dBm (LTE Band2,4,5,8,12,25,26b,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.

For Band7,38,41:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 51.0 % 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, Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overlear, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. 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.

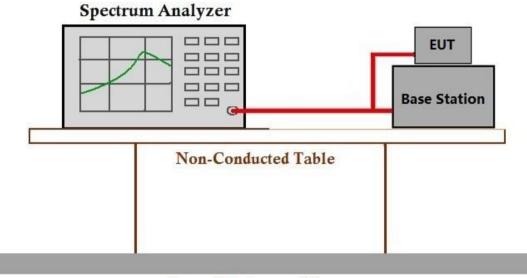
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240700274102

> Page: 19 of 38

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 https://www.sgs.com/en/Terms-and-Conditions. 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



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240700274102

> Page: 20 of 38

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:

§27,1509, §90,691

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

Limit: ≤ -13dBm (LTE Band2,4,5,8,12,25,26b,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.

For Band7,38,41:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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

6.5.1 E.U.T. Operation

Operating Environment:

23.2 °C 51.0 % RH Temperature: Humidity: 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, Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overlear, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. 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.

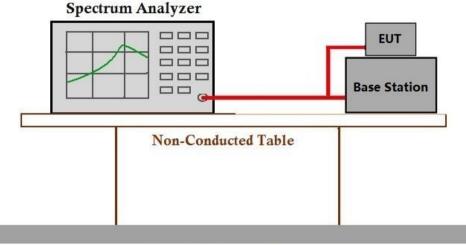
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240700274102

> Page: 21 of 38

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, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102

> Page: 22 of 38

6.6 Field strength of spurious radiation

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

§27.1509, §90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01 \leq -13dBm (LTE Band2,4,5,8,12,25,26b,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.

For Band7,38,41:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

For Band26a:

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

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 47.5 % 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, 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 https://www.sgs.com/en/Terms-and-Conditions. 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. Offices outcomes stated and sample(s) are retained for 30 days only.

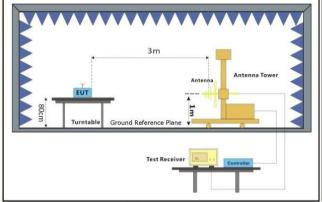
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

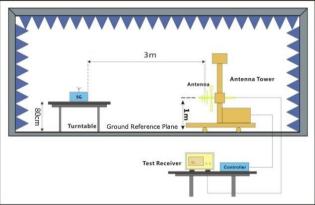


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700274102 Page: 23 of 38

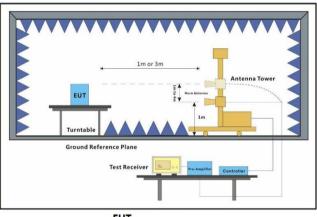
6.6.2 Test Setup Diagram

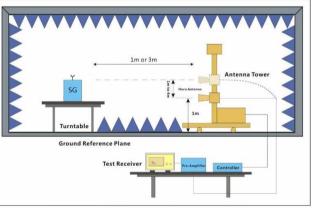




EUT

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 https://www.sgs.com/en/Terms-and-Conditions. 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



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240700274102

> Page: 24 of 38

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, Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overlear, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions. 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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700274102 Page: 25 of 38

LTE Band 2-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		
3701.0	-57.9	-13	-44.9	-62.92	3.42	8.44	Horizontal	Pass		
5551.5	-55.59	-13	-42.59	-61.8	4.24	10.45	Horizontal	Pass		
7402.0	-55.08	-13	-42.08	-62.49	4.21	11.62	Horizontal	Pass		
3701.0	-59.05	-13	-46.05	-64.07	3.42	8.44	Vertical	Pass		
5551.5	-56.11	-13	-43.11	-62.32	4.24	10.45	Vertical	Pass		
7402.0	-53.82	-13	-40.82	-61.23	4.21	11.62	Vertical	Pass		

	LTE Band 2-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			
3751.0	-57.96	-13	-44.96	-63.01	3.46	8.51	Horizontal	Pass			
5626.5	-56.14	-13	-43.14	-62.36	4.23	10.45	Horizontal	Pass			
7502.0	-55.42	-13	-42.42	-62.94	4.22	11.74	Horizontal	Pass			
3751.0	-58.17	-13	-45.17	-63.22	3.46	8.51	Vertical	Pass			
5626.5	-56.46	-13	-43.46	-62.68	4.23	10.45	Vertical	Pass			
7502.0	-55.76	-13	-42.76	-63.28	4.22	11.74	Vertical	Pass			

LTE Band 2-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		
3801.0	-57.3	-13	-44.3	-62.38	3.49	8.57	Horizontal	Pass		
5701.5	-55.69	-13	-42.69	-61.91	4.23	10.45	Horizontal	Pass		
7602.0	-56.19	-13	-43.19	-63.83	4.22	11.86	Horizontal	Pass		
3801.0	-58.21	-13	-45.21	-63.29	3.49	8.57	Vertical	Pass		
5701.5	-56.46	-13	-43.46	-62.68	4.23	10.45	Vertical	Pass		
7602.0	-56.67	-13	-43.67	-64.31	4.22	11.86	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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 26 of 38

	LTE Band 4-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			
3421.0	-57.62	-13	-44.62	-62.35	3.24	7.97	Horizontal	Pass			
5131.5	-55.06	-13	-42.06	-61.03	4.25	10.22	Horizontal	Pass			
6842.0	-54.17	-13	-41.17	-60.91	4.19	10.93	Horizontal	Pass			
3421.0	-56.63	-13	-43.63	-61.36	3.24	7.97	Vertical	Pass			
5131.5	-54.24	-13	-41.24	-60.21	4.25	10.22	Vertical	Pass			
6842.0	-56.55	-13	-43.55	-63.29	4.19	10.93	Vertical	Pass			

	LTE Band 4-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			
3456.0	-57.28	-13	-44.28	-62.08	3.26	8.06	Horizontal	Pass			
5184.0	-53.49	-13	-40.49	-59.49	4.25	10.25	Horizontal	Pass			
6912.0	-55.98	-13	-42.98	-62.81	4.19	11.02	Horizontal	Pass			
3456.0	-58.81	-13	-45.81	-63.61	3.26	8.06	Vertical	Pass			
5184.0	-51.05	-13	-39.55	-58.55	4.25	10.25	Vertical	Pass			
6912.0	-56.31	-13	-43.31	-63.14	4.19	11.02	Vertical	Pass			

LTE Band 4-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		
3491.0	-57.13	-13	-44.13	-62.0	3.28	8.15	Horizontal	Pass		
5236.5	-54.77	-13	-41.77	-60.81	4.25	10.29	Horizontal	Pass		
6982.0	-55.42	-13	-42.42	-62.34	4.19	11.11	Horizontal	Pass		
3491.0	-57.91	-13	-44.91	-62.78	3.28	8.15	Vertical	Pass		
5236.5	-52.96	-13	-39.96	-59.0	4.25	10.29	Vertical	Pass		
6982.0	-56.39	-13	-43.39	-63.31	4.19	11.11	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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 27 of 38

	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			
1649.0	-63.82	-13	-50.82	-67.22	2.1	5.5	Horizontal	Pass			
2473.5	-60.95	-13	-47.95	-64.07	2.64	5.76	Horizontal	Pass			
3298.0	-56.78	-13	-43.78	-61.28	3.16	7.66	Horizontal	Pass			
1649.0	-65.84	-13	-52.84	-69.24	2.1	5.5	Vertical	Pass			
2473.5	-62.7	-13	-49.7	-65.82	2.64	5.76	Vertical	Pass			
3298.0	-58.1	-13	-45.1	-62.6	3.16	7.66	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			
1664.0	-65.6	-13	-52.6	-68.96	2.11	5.47	Horizontal	Pass			
2496.0	-61.28	-13	-48.28	-64.43	2.66	5.81	Horizontal	Pass			
3328.0	-57.11	-13	-44.11	-61.67	3.18	7.74	Horizontal	Pass			
1664.0	-64.98	-13	-51.98	-68.34	2.11	5.47	Vertical	Pass			
2496.0	-60.59	-13	-47.59	-63.74	2.66	5.81	Vertical	Pass			
3328.0	-57.97	-13	-44.97	-62.53	3.18	7.74	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		
1679.0	-64.38	-13	-51.38	-67.68	2.13	5.43	Horizontal	Pass		
2518.5	-60.0	-13	-47.0	-63.19	2.67	5.86	Horizontal	Pass		
3358.0	-58.34	-13	-45.34	-62.96	3.2	7.82	Horizontal	Pass		
1679.0	-64.61	-13	-51.61	-67.91	2.13	5.43	Vertical	Pass		
2518.5	-61.27	-13	-48.27	-64.46	2.67	5.86	Vertical	Pass		
3358.0	-58.29	-13	-45.29	-62.91	3.2	7.82	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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 28 of 38

	LTE Band 7-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				
5001.0	-53.46	-25	-28.46	-59.34	4.26	10.14	Horizontal	Pass				
7501.5	-55.54	-25	-30.54	-63.06	4.22	11.74	Horizontal	Pass				
10002.0	-57.72	-25	-32.72	-65.67	5.08	13.03	Horizontal	Pass				
5001.0	-53.19	-25	-28.19	-59.07	4.26	10.14	Vertical	Pass				
7501.5	-56.61	-25	-31.61	-64.13	4.22	11.74	Vertical	Pass				
10002.0	-57.68	-25	-32.68	-65.63	5.08	13.03	Vertical	Pass				

	LTE Band 7-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				
5061.0	-52.8	-25	-27.8	-58.72	4.26	10.18	Horizontal	Pass				
7591.5	-55.86	-25	-30.86	-63.49	4.22	11.85	Horizontal	Pass				
10122.0	-55.59	-25	-30.59	-63.56	5.08	13.05	Horizontal	Pass				
5061.0	-55.58	-25	-30.58	-61.5	4.26	10.18	Vertical	Pass				
7591.5	-55.77	-25	-30.77	-63.4	4.22	11.85	Vertical	Pass				
10122.0	-56.3	-25	-31.3	-64.27	5.08	13.05	Vertical	Pass				

LTE Band 7-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		
5121.0	-54.61	-25	-29.61	-60.57	4.26	10.22	Horizontal	Pass		
7681.5	-55.53	-25	-30.53	-63.25	4.23	11.95	Horizontal	Pass		
10242.0	-55.37	-25	-30.37	-63.36	5.08	13.07	Horizontal	Pass		
5121.0	-53.45	-25	-28.45	-59.41	4.26	10.22	Vertical	Pass		
7681.5	-58.16	-25	-33.16	-65.88	4.23	11.95	Vertical	Pass		
10242.0	-56.12	-25	-31.12	-64.11	5.08	13.07	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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 29 of 38

	LTE Band 8-Low channel, Modulation: QPSK, Bandwidth:1.4MHz, 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			
1796.54	-61.16	-13	-48.16	-64.08	2.21	5.13	Horizontal	Pass			
2694.81	-58.58	-13	-45.58	-62.05	2.78	6.25	Horizontal	Pass			
3593.08	-56.28	-13	-43.28	-61.22	3.35	8.29	Horizontal	Pass			
1796.54	-58.22	-13	-45.22	-61.14	2.21	5.13	Vertical	Pass			
2694.81	-56.77	-13	-43.77	-60.24	2.78	6.25	Vertical	Pass			
3593.08	-56.81	-13	-43.81	-61.75	3.35	8.29	Vertical	Pass			

	LTE Band 8-Middle channel, Modulation: QPSK, Bandwidth:1.4MHz, 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				
1796.74	-60.25	-13	-47.25	-63.17	2.21	5.13	Horizontal	Pass				
2695.11	-59.01	-13	-46.01	-62.48	2.78	6.25	Horizontal	Pass				
3593.48	-57.58	-13	-44.58	-62.53	3.35	8.3	Horizontal	Pass				
1796.74	-55.69	-13	-42.69	-58.61	2.21	5.13	Vertical	Pass				
2695.11	-57.76	-13	-44.76	-61.23	2.78	6.25	Vertical	Pass				
3593.48	-57.34	-13	-44.34	-62.29	3.35	8.3	Vertical	Pass				

	LTE Band 8-High channel, Modulation: QPSK, Bandwidth:1.4MHz, 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				
1796.94	-57.06	-13	-44.06	-59.98	2.21	5.13	Horizontal	Pass				
2695.41	-59.13	-13	-46.13	-62.6	2.78	6.25	Horizontal	Pass				
3593.88	-57.2	-13	-44.2	-62.15	3.35	8.3	Horizontal	Pass				
1796.94	-52.18	-13	-39.18	-55.1	2.21	5.13	Vertical	Pass				
2695.41	-59.69	-13	-46.69	-63.16	2.78	6.25	Vertical	Pass				
3593.88	-55.59	-13	-42.59	-60.54	3.35	8.3	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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 30 of 38

	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			
1399.0	-64.92	-13	-51.92	-68.23	1.93	5.24	Horizontal	Pass			
2098.5	-63.21	-13	-50.21	-65.66	2.41	4.86	Horizontal	Pass			
2798.0	-60.73	-13	-47.73	-64.37	2.84	6.48	Horizontal	Pass			
1399.0	-65.69	-13	-52.69	-69.0	1.93	5.24	Vertical	Pass			
2098.5	-63.85	-13	-50.85	-66.3	2.41	4.86	Vertical	Pass			
2798.0	-62.19	-13	-49.19	-65.83	2.84	6.48	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		
1406.0	-64.06	-13	-51.06	-67.41	1.93	5.28	Horizontal	Pass		
2109.0	-63.37	-13	-50.37	-65.83	2.42	4.88	Horizontal	Pass		
2812.0	-61.28	-13	-48.28	-64.94	2.85	6.51	Horizontal	Pass		
1406.0	-65.62	-13	-52.62	-68.97	1.93	5.28	Vertical	Pass		
2109.0	-62.06	-13	-49.06	-64.52	2.42	4.88	Vertical	Pass		
2812.0	-60.23	-13	-47.23	-63.89	2.85	6.51	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		
1413.0	-65.08	-13	-52.08	-68.47	1.94	5.33	Horizontal	Pass		
2119.5	-63.43	-13	-50.43	-65.92	2.42	4.91	Horizontal	Pass		
2826.0	-60.56	-13	-47.56	-64.24	2.86	6.54	Horizontal	Pass		
1413.0	-65.68	-13	-52.68	-69.07	1.94	5.33	Vertical	Pass		
2119.5	-64.48	-13	-51.48	-66.97	2.42	4.91	Vertical	Pass		
2826.0	-61.18	-13	-48.18	-64.86	2.86	6.54	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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 31 of 38

	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			
1554.5	-64.5	-13	-51.5	-68.2	2.04	5.74	Horizontal	Pass			
2331.75	-62.57	-13	-49.57	-65.43	2.56	5.42	Horizontal	Pass			
3109.0	-58.47	-13	-45.47	-62.63	3.03	7.19	Horizontal	Pass			
1554.5	-65.01	-13	-52.01	-68.71	2.04	5.74	Vertical	Pass			
2331.75	-63.93	-13	-50.93	-66.79	2.56	5.42	Vertical	Pass			
3109.0	-58.08	-13	-45.08	-62.24	3.03	7.19	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				
1559.5	-65.48	-13	-52.48	-69.17	2.04	5.73	Horizontal	Pass				
2339.25	-62.93	-13	-49.93	-65.8	2.56	5.43	Horizontal	Pass				
3119.0	-56.7	-13	-43.7	-60.88	3.04	7.22	Horizontal	Pass				
1559.5	-64.72	-13	-51.72	-68.41	2.04	5.73	Vertical	Pass				
2339.25	-63.29	-13	-50.29	-66.16	2.56	5.43	Vertical	Pass				
3119.0	-58.69	-13	-45.69	-62.87	3.04	7.22	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		
1564.5	-64.68	-13	-51.68	-68.35	2.05	5.72	Horizontal	Pass		
2346.75	-62.91	-13	-49.91	-65.8	2.56	5.45	Horizontal	Pass		
3129.0	-57.31	-13	-44.31	-61.5	3.05	7.24	Horizontal	Pass		
1564.5	-65.24	-13	-52.24	-68.91	2.05	5.72	Vertical	Pass		
2346.75	-62.64	-13	-49.64	-65.53	2.56	5.45	Vertical	Pass		
3129.0	-58.81	-13	-45.81	-63.0	3.05	7.24	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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 32 of 38

	LTE Band 25-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			
3701.0	-58.09	-13	-45.09	-63.11	3.42	8.44	Horizontal	Pass			
5551.5	-54.58	-13	-41.58	-60.79	4.24	10.45	Horizontal	Pass			
7402.0	-54.88	-13	-41.88	-62.29	4.21	11.62	Horizontal	Pass			
3701.0	-58.83	-13	-45.83	-63.85	3.42	8.44	Vertical	Pass			
5551.5	-55.81	-13	-42.81	-62.02	4.24	10.45	Vertical	Pass			
7402.0	-54.38	-13	-41.38	-61.79	4.21	11.62	Vertical	Pass			

	LTE Band 25-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			
3756.0	-57.4	-13	-44.4	-62.45	3.46	8.51	Horizontal	Pass			
5634.0	-55.5	-13	-42.5	-61.72	4.23	10.45	Horizontal	Pass			
7512.0	-55.04	-13	-42.04	-62.57	4.22	11.75	Horizontal	Pass			
3756.0	-58.5	-13	-45.5	-63.55	3.46	8.51	Vertical	Pass			
5634.0	-55.81	-13	-42.81	-62.03	4.23	10.45	Vertical	Pass			
7512.0	-55.12	-13	-42.12	-62.65	4.22	11.75	Vertical	Pass			

LTE Band 25-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		
3811.0	-57.79	-13	-44.79	-62.88	3.5	8.59	Horizontal	Pass		
5716.5	-56.4	-13	-43.4	-62.62	4.23	10.45	Horizontal	Pass		
7622.0	-56.17	-13	-43.17	-63.83	4.22	11.88	Horizontal	Pass		
3811.0	-56.78	-13	-43.78	-61.87	3.5	8.59	Vertical	Pass		
5716.5	-54.87	-13	-41.87	-61.09	4.23	10.45	Vertical	Pass		
7622.0	-57.71	-13	-44.71	-65.37	4.22	11.88	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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 33 of 38

	LTE Band 26-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			
1638.0	-65.6	-13	-52.6	-69.03	2.1	5.53	Horizontal	Pass			
2457.0	-62.48	-13	-49.48	-65.57	2.63	5.72	Horizontal	Pass			
3276.0	-57.62	-13	-44.62	-62.09	3.14	7.61	Horizontal	Pass			
1638.0	-64.32	-13	-51.32	-67.75	2.1	5.53	Vertical	Pass			
2457.0	-62.27	-13	-49.27	-65.36	2.63	5.72	Vertical	Pass			
3276.0	-58.58	-13	-45.58	-63.05	3.14	7.61	Vertical	Pass			

	LTE Band 26-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			
1662.0	-64.81	-13	-51.81	-68.17	2.11	5.47	Horizontal	Pass			
2493.0	-60.87	-13	-47.87	-64.01	2.66	5.8	Horizontal	Pass			
3324.0	-57.98	-13	-44.98	-62.54	3.17	7.73	Horizontal	Pass			
1662.0	-63.9	-13	-50.9	-67.26	2.11	5.47	Vertical	Pass			
2493.0	-61.54	-13	-48.54	-64.68	2.66	5.8	Vertical	Pass			
3324.0	-57.73	-13	-44.73	-62.29	3.17	7.73	Vertical	Pass			

LTE Band 26-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		
1688.0	-65.2	-13	-52.2	-68.48	2.13	5.41	Horizontal	Pass		
2532.0	-61.74	-13	-48.74	-64.95	2.68	5.89	Horizontal	Pass		
3376.0	-55.89	-13	-42.89	-60.54	3.21	7.86	Horizontal	Pass		
1688.0	-65.49	-13	-52.49	-68.77	2.13	5.41	Vertical	Pass		
2532.0	-62.33	-13	-49.33	-65.54	2.68	5.89	Vertical	Pass		
3376.0	-56.81	-13	-43.81	-61.46	3.21	7.86	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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 34 of 38

	LTE Band 38-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			
5141.0	-54.22	-25	-29.22	-60.2	4.25	10.23	Horizontal	Pass			
7711.5	-54.89	-25	-29.89	-62.65	4.23	11.99	Horizontal	Pass			
10282.0	-54.49	-25	-29.49	-62.49	5.08	13.08	Horizontal	Pass			
5141.0	-54.61	-25	-29.61	-60.59	4.25	10.23	Vertical	Pass			
7711.5	-56.35	-25	-31.35	-64.11	4.23	11.99	Vertical	Pass			
10282.0	-56.81	-25	-31.81	-64.81	5.08	13.08	Vertical	Pass			

	LTE Band 38-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			
5181.0	-54.51	-25	-29.51	-60.51	4.25	10.25	Horizontal	Pass			
7771.5	-56.09	-25	-31.09	-63.92	4.23	12.06	Horizontal	Pass			
10362.0	-57.87	-25	-32.87	-65.89	5.08	13.1	Horizontal	Pass			
5181.0	-54.86	-25	-29.86	-60.86	4.25	10.25	Vertical	Pass			
7771.5	-57.59	-25	-32.59	-65.42	4.23	12.06	Vertical	Pass			
10362.0	-56.79	-25	-31.79	-64.81	5.08	13.1	Vertical	Pass			

LTE Band 38-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		
5221.0	-54.54	-25	-29.54	-60.57	4.25	10.28	Horizontal	Pass		
7831.5	-57.05	-25	-32.05	-64.95	4.23	12.13	Horizontal	Pass		
10442.0	-54.71	-25	-29.71	-62.74	5.08	13.11	Horizontal	Pass		
5221.0	-55.29	-25	-30.29	-61.32	4.25	10.28	Vertical	Pass		
7831.5	-56.34	-25	-31.34	-64.24	4.23	12.13	Vertical	Pass		
10442.0	-54.21	-25	-29.21	-62.24	5.08	13.11	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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 35 of 38

LTE Band 41-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			
4993.0	-54.89	-25	-29.89	-60.76	4.26	10.13	Horizontal	Pass			
7489.5	-54.47	-25	-29.47	-61.98	4.22	11.73	Horizontal	Pass			
9986.0	-57.36	-25	-32.36	-65.33	5.07	13.04	Horizontal	Pass			
4993.0	-54.23	-25	-29.23	-60.1	4.26	10.13	Vertical	Pass			
7489.5	-55.54	-25	-30.54	-63.05	4.22	11.73	Vertical	Pass			
9986.0	-57.03	-25	-32.03	-65.0	5.07	13.04	Vertical	Pass			

LTE Band 41-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		
5177.0	-54.23	-25	-29.23	-60.23	4.25	10.25	Horizontal	Pass		
7765.5	-56.58	-25	-31.58	-64.4	4.23	12.05	Horizontal	Pass		
10354.0	-54.73	-25	-29.73	-62.74	5.08	13.09	Horizontal	Pass		
5177.0	-55.02	-25	-30.02	-61.02	4.25	10.25	Vertical	Pass		
7765.5	-56.62	-25	-31.62	-64.44	4.23	12.05	Vertical	Pass		
10354.0	-55.04	-25	-30.04	-63.05	5.08	13.09	Vertical	Pass		

LTE Band 41-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		
5361.0	-56.79	-25	-31.79	-62.9	4.25	10.36	Horizontal	Pass		
8041.5	-56.93	-25	-31.93	-65.06	4.25	12.38	Horizontal	Pass		
10722.0	-53.76	-25	-28.76	-61.87	5.08	13.19	Horizontal	Pass		
5361.0	-56.26	-25	-31.26	-62.37	4.25	10.36	Vertical	Pass		
8041.5	-58.51	-25	-33.51	-66.64	4.25	12.38	Vertical	Pass		
10722.0	-54.69	-25	-29.69	-62.8	5.08	13.19	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 https://www.sgs.com/en/Terms-and-Conditions. 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.: SZCR240700274102 Page: 36 of 38

	LTE Band 66-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			
3421.0	-57.23	-13	-44.23	-61.96	3.24	7.97	Horizontal	Pass			
5131.5	-53.97	-13	-40.97	-59.94	4.25	10.22	Horizontal	Pass			
6842.0	-54.4	-13	-41.4	-61.14	4.19	10.93	Horizontal	Pass			
3421.0	-58.3	-13	-45.3	-63.03	3.24	7.97	Vertical	Pass			
5131.5	-55.23	-13	-42.23	-61.2	4.25	10.22	Vertical	Pass			
6842.0	-54.45	-13	-41.45	-61.19	4.19	10.93	Vertical	Pass			

	LTE Band 66-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			
3481.0	-57.32	-13	-44.32	-62.16	3.28	8.12	Horizontal	Pass			
5221.5	-55.79	-13	-42.79	-61.82	4.25	10.28	Horizontal	Pass			
6962.0	-55.59	-13	-42.59	-62.48	4.19	11.08	Horizontal	Pass			
3481.0	-57.79	-13	-44.79	-62.63	3.28	8.12	Vertical	Pass			
5221.5	-54.38	-13	-41.38	-60.41	4.25	10.28	Vertical	Pass			
6962.0	-55.3	-13	-42.3	-62.19	4.19	11.08	Vertical	Pass			

LTE Band 66-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		
3541.0	-58.04	-13	-45.04	-62.94	3.32	8.22	Horizontal	Pass		
5311.5	-54.35	-13	-41.35	-60.43	4.25	10.33	Horizontal	Pass		
7082.0	-55.64	-13	-42.64	-62.68	4.19	11.23	Horizontal	Pass		
3541.0	-58.13	-13	-45.13	-63.03	3.32	8.22	Vertical	Pass		
5311.5	-55.46	-13	-42.46	-61.54	4.25	10.33	Vertical	Pass		
7082.0	-54.97	-13	-41.97	-62.01	4.19	11.23	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 https://www.sgs.com/en/Terms-and-Conditions. 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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700274102 Page: 37 of 38

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.

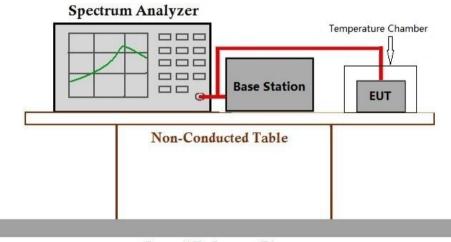
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 51.0 % 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 https://www.sgs.com/en/Terms-and-Conditions. 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 form 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,



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240700274102

> Page: 38 of 38

Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2407002741MO

EUT Constructional Details (EUT Photos) 8

Refer to Appendix - External and Internal Photos for SZCR2407002741MO

- 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 https://www.sgs.com/en/Terms-and-Conditions. 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"