

Report No.: SEWM2212000297RG02
 Rev.: 01
 Page: 1 of 45

TEST REPORT

Application No: SEWM2212000297RG
Applicant: MeiG Smart Technology Co., Ltd
Address of Applicant: 2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen
Manufacturer: MeiG Smart Technology Co., Ltd
Address of Manufacturer: 2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen
EUT Description: SRM825
Model No.: SRM825N-NA
Trade Mark: MEIGLink
FCC ID: 2APJ4-SRM825NNA
Standards: 47 CFR Part 2
 47 CFR Part 22
 47 CFR Part 24
 47 CFR Part 27
 47 CFR Part 90
Date of Receipt: 2022/12/08
Date of Test: 2022/12/08 to 2023/02/13
Date of Issue: 2023/02/15

| | |
|---------------------|---------------|
| Test Result: | PASS * |
|---------------------|---------------|

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

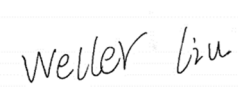
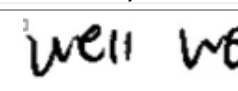
Panta Sun
 Wireless Laboratory Manager



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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
 South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

1 Version

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2023/02/15 | | Original |

| | | |
|--------------------|--|--|
| Prepared By | |  <hr/> (Weller Liu) / Test Engineer |
| Checked By | |  <hr/> (Well Wei) / 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

Content

| | | |
|-------|--|----|
| 1 | Version | 2 |
| 2 | Test Summary | 5 |
| 2.1 | NR Band n5 | 5 |
| 2.2 | NR Band n7 / NR Band n41 | 6 |
| 2.3 | NR Band n2/ NR Band n25 | 7 |
| 2.5 | NR Band n66 | 9 |
| 2.6 | NR Band n71 | 10 |
| 2.7 | NR Band n77 | 11 |
| 3 | General Information | 13 |
| 3.1 | Client Information | 13 |
| 3.2 | Test Location | 13 |
| 3.3 | Test Facility | 13 |
| 3.4 | General Description of EUT | 14 |
| 3.5 | Test Mode | 16 |
| 3.6 | Test Environment | 16 |
| 3.7 | Description of Support Units | 16 |
| 3.8 | Technical Specification | 17 |
| 3.9 | Test Frequencies | 21 |
| 3.9.1 | Reference test frequencies for NR operating band n2 | 21 |
| 3.9.2 | Reference test frequencies for NR operating band n5 | 22 |
| 3.9.3 | Reference test frequencies for NR operating band n7 | 23 |
| 3.9.4 | Reference test frequencies for NR operating band n12 | 24 |
| 3.9.5 | Reference test frequencies for NR operating band n25 | 24 |
| 3.9.6 | Reference test frequencies for NR operating band n41 | 25 |
| 3.9.7 | Reference test frequencies for NR operating band n66 | 26 |
| 3.9.8 | Reference test frequencies for NR operating band n71 | 27 |
| 3.9.9 | Reference test frequencies for NR operating band n77 | 28 |
| 4 | Description of Tests | 30 |
| 4.1 | Conducted Output Power | 30 |
| 4.2 | Effective (Isotropic) Radiated Power of Transmitter | 31 |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

4.3 Occupied Bandwidth.....32

4.4 Band Edge at Antenna Terminals.....33

4.5 Spurious And Harmonic Emissions at Antenna Terminal34

4.6 Peak-Average Ratio35

4.7 Field Strength of Spurious Radiation36

4.8 Frequency Stability / Temperature Variation.....37

4.9 Test Setups38

 4.9.1 Test Setup 1.....38

 4.9.2 Test Setup 2.....38

 4.9.3 Test Setup 3.....39

4.10 Test Conditions.....40

5 Main Test Instruments42

6 Measurement Uncertainty.....44

7 Appendixes.....45



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

2 Test Summary

2.1 NR Band n5

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|--|---|----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §22.913(a)(5) | FCC: ERP ≤ 7 W | Section 1 of Appendix B.21 | Pass |
| Peak-Average Ratio | §22.913(d) | Limit ≤ 13 dB | Section 2 of Appendix B.21 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B.21 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B.21 | Pass |
| Band Edges Compliance | §2.1051, §22.917(a) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B.21 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §22.917(a) | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B.21 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §22.917(a) | FCC: ≤ -13 dBm/100 kHz. | Section 7 of Appendix B.21 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(1) §22.355 | ≤ ±2.5ppm. | Section 8 of Appendix B.21 | 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

2.2 NR Band n7 / NR Band n41

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|---|---|---------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(h)(2) | EIRP ≤ 2W | Section 1 of Appendix B.22&B.25 | Pass |
| Peak-Average Ratio | --- | ≤13 dB | Section 2 of Appendix B.22&B.25 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B.22&B.25 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B.22&B.25 | Pass |
| Band Edges Compliance | §2.1051, §27.53(m4) | 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. | Section 5 of Appendix B.22&B.25 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(m) | | Section 6 of Appendix B.22&B.25 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(m) | | Section 7 of Appendix B.22&B.25 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(1) §27.54 | Within authorized bands of operation/frequency block. | Section 8 of Appendix B.22&B.25 | 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

2.3 NR Band n2/ NR Band n25

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|--|--|---------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §24.232(c) | $EIRP \leq 2\text{ W}$ | Section 1 of Appendix B.20&B.24 | Pass |
| Peak-Average Ratio | §24.232(d) | Limit $\leq 13\text{ dB}$ | Section 2 of Appendix B.20&B.24 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B.20&B.24 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B.20&B.24 | Pass |
| Band Edges Compliance | §2.1051, §24.238(a) | $\leq -13\text{ dBm}/1\% \cdot EBW$, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B.20&B.24 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §24.238(a) | $\leq -13\text{ dBm}/1\text{ MHz}$, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B.20&B.24 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §24.238(a) | $\leq -13\text{ dBm}/1\text{ MHz}$. | Section 7 of Appendix B.20&B.24 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(1) §24.235 | Within authorized bands of operation/frequency block. | Section 8 of Appendix B.20&B.24 | 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

2.4 NR Band n12

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|---|---|----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046 §27.50(c)(10) | ERP ≤ 3 W. | Section 1 of Appendix B.23 | Pass |
| Peak-Average Ratio | --- | Limit≤13 dB | Section 2 of Appendix B.23 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B.23 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B.23 | Pass |
| Band Edges Compliance | §2.1051, §27.53(g) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B.23 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(g) | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B.23 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(g) | FCC: ≤ -13 dBm/100 kHz. | Section 7 of Appendix B.23 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(1) §27.54 | Within authorized bands of operation/frequency block. | Section 8 of Appendix B.23 | 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

2.5 NR Band n66

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|---|--|----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(d)(4) | $EIRP \leq 1\text{ W}$ | Section 1 of Appendix B.26 | Pass |
| Peak-Average Ratio | §27.50(d)(5) | Limit $\leq 13\text{ dB}$ | Section 2 of Appendix B.26 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B.26 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B.26 | Pass |
| Band Edges Compliance | §2.1051, §27.53(h) | $\leq -13\text{ dBm}/1\% \cdot EBW$, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B.26 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(h) | $\leq -13\text{ dBm}/1\text{ MHz}$, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B.26 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(h) | $\leq -13\text{ dBm}/1\text{ MHz}$. | Section 7 of Appendix B.26 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(1) §27.54 | Within authorized bands of operation/frequency block. | Section 8 of Appendix B.26 | 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

2.6 NR Band n71

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|---|--|----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046 §27.50(c)(10) | ERP ≤ 3 W | Section 1 of Appendix B.27 | Pass |
| Peak-Average Ratio | --- | Limits ≤ 13 dB | Section 2 of Appendix B.27 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B.27 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B.27 | Pass |
| Band Edges Compliance | §2.1051, §27.53(g) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B.27 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(g) | ≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B.27 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(g) | ≤ -13 dBm/1 MHz. | Section 7 of Appendix B.27 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(1)§27.54 | within the authorized bands of operation. | Section 8 of Appendix B.27 | 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

2.7 NR Band n77

3700-3980MHz:

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|---|--|----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(j)(3) | EIRP ≤ 1W | Section 1 of Appendix B.29 | Pass |
| Peak-Average Ratio | --- | ≤13 dB | Section 2 of Appendix B329 | Pass |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B329 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B329 | Pass |
| Band Edges Compliance | §2.1051, §27.53(l)(2) | (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. | Section 5 of Appendix B.29 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(l)(2) | not exceed -13 dBm/MHz. | Section 6 of Appendix B.29 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(l)(2) | not exceed -13 dBm/MHz | Section 7 of Appendix B.29 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(1) §27.54 | Within authorized bands of operation/frequency block. | Section 8 of Appendix B.29 | 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

3450-3550MHz:

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|---|--|----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(k)(3) | EIRP ≤ 30dBm | Section 1 of Appendix B.28 | Pass |
| Peak-Average Ratio | §27.50(k)(4) | FCC: Limit≤13 dB | Section 2 of Appendix B.28 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B.28 | Pass |
| Band Edges Compliance | §2.1051, §27.50(n)(2) | For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. | Section 5 of Appendix B.28 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.50(n)(2) | For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. | Section 6 of Appendix B.28 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.50(n)(2) | For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. | Section 7 of Appendix B.28 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(1) §27.54 | Within authorized bands of operation/ frequency block. | Section 8 of Appendix B.28 | 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

3 General Information

3.1 Client Information

| | |
|--------------------------|--|
| Applicant: | MeiG Smart Technology Co., Ltd |
| Address of Applicant: | 2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen |
| Manufacturer: | MeiG Smart Technology Co., Ltd |
| Address of Manufacturer: | 2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen |

3.2 Test Location

| | |
|----------------|--|
| Company: | SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. |
| Address: | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |
| Post code: | 215000 |
| Test engineer: | Weller Liu, King-p Li |

3.3 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

3.4 General Description of EUT

| | | | | |
|---|--|----------------------------|-------------------|----------------------------|
| EUT Description: | SRM825 | | | |
| Model No.: | SRM825N-NA | | | |
| Trade Mark: | MEIGLink | | | |
| Hardware Version: | SRM825WN_X62_V1.01 | | | |
| Software Version: | SRM825N_6.0.3_EQ101 | | | |
| IMEI: | RF Conducted | 861610060037434 | | |
| | RSE | 860610060037343 | | |
| Feature: | UL 2*2 MIMO: n41; n77 | | | |
| HPUE Power Class: | Class 2: n41; n77 | | | |
| Antenna Type: | <input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated | | | |
| Antenna Gain: | n2: | -1.1dBi(Ant0) | n5: | -1.1dBi(Ant2) |
| | n7: | 1.9dBi(Ant0) | n12: | 1.3dBi(Ant2) |
| | n25: | -1.1dBi(Ant0) | n41: | 1.9dBi(Ant0); 1.9dBi(Ant2) |
| | n66: | -1.4dBi(Ant0) | n71: | 1.1dBi(Ant1) |
| | n77: | 3.1dBi(Ant1); 3.1dBi(Ant3) | | |
| | Note: The antenna gain are derived from the gain information report provided by the manufacturer. | | | |
| RF Cable: | 0.8dB(Below 1GHz) | 1.0dB(1.0~2.4GHz) | 1.2dB(2.4~3.4GHz) | |
| | 1.5dB(Above 3.4GHz) | | | |
| As above information is provided and confirmed by the applicant. 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

MIMO Model:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power measurements on IEEE 802.11 devices:
 Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
 Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;
 Array Gain = $5 \log(N_{ANT}/N_{SS}=1)$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, \dots, G_N dBi

- If transmit signals are correlated, then
 Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- If all transmit signals are completely uncorrelated, then
 Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}]$ dBi

| Band | ANT Gain1 (dBi) | ANT Gain2 (dBi) | Power DG (dBi) |
|--------------|-----------------|-----------------|----------------|
| NR Band n41: | 1.9 | 1.9 | 1.9 |
| NR Band n77: | 3.1 | 3.1 | 3.1 |



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

3.5 Test Mode

| Test Mode | Test Modes Description |
|-----------|---------------------------------------|
| NR/TM1 | NR system, DFT-s-Pi/2-BPSK modulation |
| NR/TM2 | NR system, DFT-s-QPSK modulation |
| NR/TM3 | NR system, DFT-s-16QAM modulation |
| NR/TM4 | NR system, DFT-s-64QAM modulation |
| NR/TM5 | NR system, DFT-s-256QAM modulation |
| NR/TM6 | NR system, CP-QPSK modulation |
| NR/TM7 | NR system, CP-16QAM modulation |
| NR/TM8 | NR system, CP-64QAM modulation |
| NR/TM9 | NR system, CP-256QAM modulation |

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

3.6 Test Environment

| Environment Parameter | 101 kPa Selected Values During Tests | |
|-----------------------|--------------------------------------|------------|
| Relative Humidity | 44-46 % RH Ambient | |
| Value | Temperature(°C) | Voltage(V) |
| NTNV | 22~23 | 3.8 |
| LTLV | -40 | 3.3 |
| LTHV | -40 | 4.4 |
| HTLV | 75 | 3.3 |
| HTHV | 75 | 4.4 |

Remark:

NV: Normal Voltage

LV: Low Extreme Test Voltage

HV: High Extreme Test Voltage

NT: Normal Temperature

LT: Low Extreme Test Temperature

HT: High Extreme Test Temperature

3.7 Description of Support Units

The EUT has been tested as an independent unit.



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

3.8 Technical Specification

| Characteristics | Description | | | | |
|---|--|--|--|--|--|
| Radio System Type | <input checked="" type="checkbox"/> SA <input checked="" type="checkbox"/> NSA | | | | |
| Supported Frequency Range | Band | TX | RX | | |
| | NR Band n2 | 1850 to 1910 MHz | 1930 to 1990 MHz | | |
| | NR Band n5 | 824 to 849 MHz | 869 to 894 MHz | | |
| | NR Band n7 | 2500 to 2570 MHz | 2620 to 2690 MHz | | |
| | NR Band n12 | 699 to 716 MHz | 729 to 746 MHz | | |
| | NR Band n25 | 1850 to 1915MHz | 1930 to 1995 MHz | | |
| | NR Band n41 | 2496 to 2690 MHz | 2496 to 2690 MHz | | |
| | NR Band n66 | 1710 to 1780 MHz | 2110 to 2180 MHz | | |
| | NR Band n71 | 663 to 698 MHz | 617 to 652 MHz | | |
| | NR Band n77 | 3700 to 3980 MHz | 3700 to 3980 MHz | | |
| | | 3450 to 3550 MHz | 3450 to 3550 MHz | | |
| NR UL CA: NR UL CA_n2A-n77A; NR UL CA_n5A-n77A; NR UL CA_n25A-n41A; NR UL CA_n25A-n77A; NR UL CA_n41A-n66A; NR UL CA_n41A-n71A; NR UL CA_n66A-n77A; NR UL CA_n71A-n77A ENDC: DC_5A-n2A, DC_12A-n2A, DC_13A-n2A, DC_71A-n2A; DC_2A-n5A, DC_66A-n5A, DC_7A-n5A;DC_2A-n12A, DC_66A-n12A; DC_12A-n25A;DC_2A-n41A, DC_12A-n41A;DC_5A-n66A, DC_12A-n66A, DC_13A-n66A, DC_71A-n66A;DC_2A-n71A, DC_66A-n71A; DC_2A-n77A, DC_5A-n77A, DC_12A-n77A, DC_13A-n77A, DC_66A-n77A,DC_71A-n77A Remark:ENDC Band Only test RSE, report only show worst mode | | | | | |
| Supported Channel Bandwidth | NR Band n2 | SCS 15kHz: | | | |
| | | <input checked="" type="checkbox"/> 5 MHz | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | <input checked="" type="checkbox"/> 20 MHz |
| | NR Band n5 | SCS 15kHz: | | | |
| | | <input checked="" type="checkbox"/> 5 MHz | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | <input checked="" type="checkbox"/> 20 MHz |
| | NR Band n7 | SCS 15kHz: | | | |
| | | <input checked="" type="checkbox"/> 5 MHz | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | <input checked="" type="checkbox"/> 20 MHz |
| | NR Band n12 | <input checked="" type="checkbox"/> 25 MHz | <input checked="" type="checkbox"/> 30 MHz | <input checked="" type="checkbox"/> 40 MHz | |
| | | SCS 15kHz: | | | |
| | NR Band n25 | <input checked="" type="checkbox"/> 5 MHz | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | |
| | | SCS 15kHz: | | | |
| NR Band n41 | <input checked="" type="checkbox"/> 5 MHz | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | <input checked="" type="checkbox"/> 20 MHz | |
| | SCS 30kHz: | | | | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

| | | | | | | |
|---|-------------|---|--|---|--|--|
| | | <input checked="" type="checkbox"/> 20 MHz | <input checked="" type="checkbox"/> 30 MHz | <input checked="" type="checkbox"/> 40 MHz | <input checked="" type="checkbox"/> 50 MHz | |
| | | <input checked="" type="checkbox"/> 60 MHz | <input checked="" type="checkbox"/> 70 MHz | <input checked="" type="checkbox"/> 80 MHz | <input checked="" type="checkbox"/> 90 MHz | |
| | | <input checked="" type="checkbox"/> 100 MHz | | | | |
| | NR Band n66 | SCS 15kHz: | | | | |
| | | <input checked="" type="checkbox"/> 5 MHz | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | <input checked="" type="checkbox"/> 20 MHz | |
| | | <input checked="" type="checkbox"/> 30 MHz | <input checked="" type="checkbox"/> 40 MHz | | | |
| | NR Band n71 | SCS 15kHz: | | | | |
| | | <input checked="" type="checkbox"/> 5 MHz | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | <input checked="" type="checkbox"/> 20 MHz | |
| | NR Band n77 | SCS 30kHz | | | | |
| | | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | <input checked="" type="checkbox"/> 20 MHz | <input checked="" type="checkbox"/> 30 MHz | |
| | | <input checked="" type="checkbox"/> 40 MHz | <input checked="" type="checkbox"/> 50 MHz | <input checked="" type="checkbox"/> 60 MHz | <input checked="" type="checkbox"/> 70 MHz | |
| | | <input checked="" type="checkbox"/> 80 MHz | <input checked="" type="checkbox"/> 90 MHz | <input checked="" type="checkbox"/> 100 MHz | | |
| Designation of Emissions (Remark: the necessary bandwidth of which is the worst value from the measured occupied bandwidths for each type of channel bandwidth configuration.) | NR Band n2 | DFT-s-Pi/2-BPSK | CP-16QAM | | | |
| | | SCS 15kHz: | | | | |
| | | 4M48G7D | 4M53W7D | | | |
| | | 8M95G7D | 9M32W7D | | | |
| | | 13M4G7D | 14M2W7D | | | |
| | NR Band n5 | SCS 15kHz: | | | | |
| | | 4M48G7D | 4M51W7D | | | |
| | | 8M92G7D | 9M28W7D | | | |
| | | 13M5G7D | 14M2W7D | | | |
| | | 17M9G7D | 18M9W7D | | | |
| | NR Band n7 | SCS 15kHz: | | | | |
| | | 4M47G7D | 4M52W7D | | | |
| 8M92G7D | | 9M30W7D | | | | |
| 13M4G7D | | 14M2W7D | | | | |
| 17M9G7D | | 19M0W7D | | | | |
| 22M9G7D | | 23M8W7D | | | | |
| 28M6G7D | | 28M7W7D | | | | |
| NR Band n12 | 4M49G7D | 4M50W7D | | | | |
| | 8M92G7D | 9M28W7D | | | | |
| | 13M4G7D | 14M2W7D | | | | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

| | | | | | |
|--|----------------------------|------------|---------|--|--|
| | NR Band n25 | SCS 15kHz: | | | |
| | | 4M49G7D | 4M52W7D | | |
| | | 8M92G7D | 9M30W7D | | |
| | | 13M5G7D | 14M2W7D | | |
| | | 17M9G7D | 19M0W7D | | |
| | NR Band n41 | SCS 30kHz: | | | |
| | | 17M9G7D | 18M3W7D | | |
| | | 26M8G7D | 27M9W7D | | |
| | | 35M8G7D | 37M9W7D | | |
| | | 45M8G7D | 47M5W7D | | |
| | | 58M0G7D | 57M8W7D | | |
| | | 64M4G7D | 67M4W7D | | |
| | | 77M1G7D | 77M5W7D | | |
| | | 85M7G7D | 87M5W7D | | |
| | 96M5G7D | 97M6W7D | | | |
| | NR Band n66 | SCS 15kHz: | | | |
| | | 4M48G7D | 4M50W7D | | |
| | | 8M91G7D | 9M30W7D | | |
| | | 13M4G7D | 14M1W7D | | |
| | | 17M9G7D | 19M0W7D | | |
| | | 28M6G7D | 28M6W7D | | |
| | | 38M6G7D | 38M6W7D | | |
| | NR Band n71 | SCS 15kHz: | | | |
| | | 4M47G7D | 4M49W7D | | |
| | | 8M91G7D | 9M27W7D | | |
| | | 13M4G7D | 14M1W7D | | |
| | | 17M9G7D | 18M9W7D | | |
| | NR Band n77 (3450-3550) | SCS 30kHz: | | | |
| | | 8M58G7D | 8M60W7D | | |
| | | 12M9G7D | 13M6W7D | | |
| | | 17M9G7D | 18M2W7D | | |
| | | 26M8G7D | 27M8W7D | | |
| | | 35M7G7D | 37M9W7D | | |
| | | 45M8G7D | 47M6W7D | | |
| | | 57M9G7D | 57M9W7D | | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南座 邮编: 215000

t (86-512) 62992980 www.sgs.com
 t (86-512) 62992980 sgs.china@sgs.com

| | | | | | | |
|--|----------------------------|------------|---------|--|--|--|
| | | 64M5G7D | 67M5W7D | | | |
| | | 77M1G7D | 77M4W7D | | | |
| | | 85M6G7D | 87M3W7D | | | |
| | | 96M4G7D | 97M4W7D | | | |
| | NR Band n77 (3700-3980) | SCS 30kHz: | | | | |
| | | 8M62G7D | 8M59W7D | | | |
| | | 12M9G7D | 13M6W7D | | | |
| | | 17M9G7D | 18M2W7D | | | |
| | | 26M7G7D | 27M9W7D | | | |
| | | 35M8G7D | 37M9W7D | | | |
| | | 45M7G7D | 47M5W7D | | | |
| | | 58M0G7D | 57M9W7D | | | |
| | | 64M5G7D | 67M3W7D | | | |
| | | 77M2G7D | 77M5W7D | | | |
| | | 85M5G7D | 87M4W7D | | | |
| | | 96M3G7D | 97M3W7D | | | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

3.9 Test Frequencies

3.9.1 Reference test frequencies for NR operating band n2

3.9.1.1 Test frequencies for NR operating band n2 and SCS 15 kHz

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 5 | Downlink | Low | 1932.5 | 386500 | 15 |
| | | Mid | 1960 | 392000 | |
| | | High | 1987.5 | 397500 | |
| | Uplink | Low | 1852.5 | 370500 | - |
| | | Mid | 1880 | 376000 | |
| | | High | 1907.5 | 381500 | |
| 10 | Downlink | Low | 1935 | 387000 | 15 |
| | | Mid | 1960 | 392000 | |
| | | High | 1985 | 397000 | |
| | Uplink | Low | 1855 | 371000 | - |
| | | Mid | 1880 | 376000 | |
| | | High | 1905 | 381000 | |
| 15 | Downlink | Low | 1937.5 | 387500 | 15 |
| | | Mid | 1960 | 392000 | |
| | | High | 1982.5 | 396500 | |
| | Uplink | Low | 1857.5 | 371500 | - |
| | | Mid | 1880 | 376000 | |
| | | High | 1902.5 | 380500 | |
| 20 | Downlink | Low | 1940 | 388000 | 15 |
| | | Mid | 1960 | 392000 | |
| | | High | 1980 | 396000 | |
| | Uplink | Low | 1860 | 372000 | - |
| | | Mid | 1880 | 376000 | |
| | | High | 1900 | 380000 | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

3.9.2 Reference test frequencies for NR operating band n5

3.9.2.1 Test frequencies for NR operating band n5 and SCS 15 kHz

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 5 | Downlink | Low | 871.5 | 174300 | 15 |
| | | Mid | 881.5 | 176300 | |
| | | High | 891.5 | 178300 | |
| | Uplink | Low | 826.5 | 165300 | - |
| | | Mid | 836.5 | 167300 | |
| | | High | 846.5 | 169300 | |
| 10 | Downlink | Low | 874 | 174800 | 15 |
| | | Mid | 881.5 | 176300 | |
| | | High | 889 | 177800 | |
| | Uplink | Low | 829 | 165800 | - |
| | | Mid | 836.5 | 167300 | |
| | | High | 844 | 168800 | |
| 15 | Downlink | Low | 876.5 | 175300 | 15 |
| | | Mid | 881.5 | 176300 | |
| | | High | 886.5 | 177300 | |
| | Uplink | Low | 831.5 | 166300 | - |
| | | Mid | 836.5 | 167300 | |
| | | High | 841.5 | 168300 | |
| 20 | Downlink | Low | 879 | 175800 | 15 |
| | | Mid | 881.5 | 176300 | |
| | | High | 884 | 176800 | |
| | Uplink | Low | 834 | 166800 | - |
| | | Mid | 836.5 | 167300 | |
| | | High | 839 | 167800 | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

3.9.3 Reference test frequencies for NR operating band n7

3.9.3.1 Test frequencies for NR operating band n7 and SCS 15 kHz

| Bandwidth [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------------|----------|------|----------------------|------------------------|--------------------|
| 5 | Downlink | Low | 2622.5 | 524500 | 15 |
| | | Mid | 2655 | 531000 | |
| | | High | 2687.5 | 537500 | |
| | Uplink | Low | 2502.5 | 500500 | -- |
| | | Mid | 2535 | 507000 | |
| | | High | 2567.5 | 513500 | |
| 10 | Downlink | Low | 2625 | 525000 | 15 |
| | | Mid | 2655 | 531000 | |
| | | High | 2685 | 537000 | |
| | Uplink | Low | 2505 | 501000 | -- |
| | | Mid | 2535 | 507000 | |
| | | High | 2565 | 513000 | |
| 15 | Downlink | Low | 2627.5 | 525500 | 15 |
| | | Mid | 2655 | 531000 | |
| | | High | 2682.5 | 536500 | |
| | Uplink | Low | 2507.5 | 501500 | -- |
| | | Mid | 2535 | 507000 | |
| | | High | 2562.5 | 512500 | |
| 20 | Downlink | Low | 2630 | 526000 | 15 |
| | | Mid | 2655 | 531000 | |
| | | High | 2680 | 536000 | |
| | Uplink | Low | 2510 | 502000 | -- |
| | | Mid | 2535 | 507000 | |
| | | High | 2560 | 512000 | |
| 25 | Downlink | Low | 2632.5 | 526500 | 15 |
| | | Mid | 2655 | 531000 | |
| | | High | 2677.5 | 535500 | |
| | Uplink | Low | 2512.5 | 502500 | -- |
| | | Mid | 2535 | 507000 | |
| | | High | 2557.5 | 511500 | |
| 30 | Downlink | Low | 2635 | 52700 | 15 |
| | | Mid | 2655 | 531000 | |
| | | High | 2675 | 535000 | |
| | Uplink | Low | 2515 | 503000 | -- |
| | | Mid | 2535 | 507000 | |
| | | High | 2555 | 511000 | |
| 40 | Downlink | Low | 2640 | 528000 | 15 |
| | | Mid | 2655 | 531000 | |
| | | High | 2670 | 534000 | |
| | Uplink | Low | 2520 | 504000 | -- |
| | | Mid | 2535 | 507000 | |
| | | High | 2550 | 510000 | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

3.9.4 Reference test frequencies for NR operating band n12

3.9.4.1 Test frequencies for NR operating band n12 and SCS 15 kHz

| Bandwidth [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------------|----------|------|----------------------|------------------------|--------------------|
| 5 | Downlink | Low | 731.5 | 146300 | 15 |
| | | Mid | 737.5 | 147500 | |
| | | High | 743.5 | 148700 | |
| | Uplink | Low | 701.5 | 140300 | -- |
| | | Mid | 707.5 | 141500 | |
| | | High | 713.5 | 142700 | |
| 10 | Downlink | Low | 734 | 146800 | 15 |
| | | Mid | 737.5 | 147500 | |
| | | High | 741 | 148200 | |
| | Uplink | Low | 704 | 140800 | -- |
| | | Mid | 707.5 | 141500 | |
| | | High | 711 | 142200 | |
| 15 | Downlink | Low | 736.5 | 147300 | 15 |
| | | Mid | 737.5 | 147500 | |
| | | High | 738.5 | 147700 | |
| | Uplink | Low | 706.5 | 141300 | -- |
| | | Mid | 707.5 | 141500 | |
| | | High | 708.5 | 141700 | |

3.9.5 Reference test frequencies for NR operating band n25

3.9.5.1 Test frequencies for NR operating band n25 and SCS 15 kHz

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 5 | Downlink | Low | 1932.5 | 386500 | 15 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1992.5 | 398500 | |
| | Uplink | Low | 1852.5 | 370500 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1912.5 | 382500 | |
| 10 | Downlink | Low | 1935 | 387000 | 15 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1990 | 398000 | |
| | Uplink | Low | 1855 | 371000 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1910 | 382000 | |
| 15 | Downlink | Low | 1937.5 | 387500 | 15 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1987.5 | 397500 | |
| | Uplink | Low | 1857.5 | 371500 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1907.5 | 381500 | |
| 20 | Downlink | Low | 1940 | 388000 | 15 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1985 | 397000 | |
| | Uplink | Low | 1860 | 372000 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1905 | 381000 | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

3.9.6 Reference test frequencies for NR operating band n41

3.9.6.1 Test frequencies for NR operating band n41 and SCS 30 kHz

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|-------------------|------|----------------------|------------------------|--------------------|
| 20 | Downlink & Uplink | Low | 2506.02 | 501204 | 30 |
| | | Mid | 2592.99 | 518598 | |
| | | High | 2670 | 534000 | |
| 30 | Downlink & Uplink | Low | 2511 | 502200 | 30 |
| | | Mid | 2592.99 | 518598 | |
| | | High | 2675 | 535000 | |
| 40 | Downlink & Uplink | Low | 2516.01 | 503202 | 30 |
| | | Mid | 2592.99 | 518598 | |
| | | High | 2670 | 534000 | |
| 50 | Downlink & Uplink | Low | 2521.02 | 504204 | 30 |
| | | Mid | 2592.99 | 518598 | |
| | | High | 2664.99 | 532998 | |
| 60 | Downlink & Uplink | Low | 2526 | 505200 | 30 |
| | | Mid | 2592.99 | 518598 | |
| | | High | 2659.98 | 531996 | |
| 70 | Downlink & Uplink | Low | 2536.02 | 507204 | 30 |
| | | Mid | 2592.99 | 518598 | |
| | | High | 2649.99 | 529998 | |
| 80 | Downlink & Uplink | Low | 2536.02 | 507204 | 30 |
| | | Mid | 2592.99 | 518598 | |
| | | High | 2649.99 | 529998 | |
| 90 | Downlink & Uplink | Low | 2541 | 508200 | 30 |
| | | Mid | 2592.99 | 518598 | |
| | | High | 2644.98 | 528996 | |
| 100 | Downlink & Uplink | Low | 2546.01 | 509202 | 30 |
| | | Mid | 2592.99 | 518598 | |
| | | High | 2640 | 528000 | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

3.9.7 Reference test frequencies for NR operating band n66

3.9.7.1 Test frequencies for NR operating band n66 and SCS 15 kHz

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 5 | Downlink | Low | 2112.5 | 422500 | 15 |
| | | Mid | 2145 | 429000 | |
| | | High | 2177.5 | 435500 | |
| | Uplink | Low | 1712.5 | 342500 | - |
| | | Mid | 1745 | 349000 | |
| | | High | 1777.5 | 355500 | |
| 10 | Downlink | Low | 2115 | 423000 | 15 |
| | | Mid | 2145 | 429000 | |
| | | High | 2175 | 435000 | |
| | Uplink | Low | 1715 | 343000 | - |
| | | Mid | 1745 | 349000 | |
| | | High | 1775 | 355000 | |
| 15 | Downlink | Low | 2117.5 | 423500 | 15 |
| | | Mid | 2145 | 429000 | |
| | | High | 2172.5 | 434500 | |
| | Uplink | Low | 1717.5 | 343500 | - |
| | | Mid | 1745 | 349000 | |
| | | High | 1772.5 | 354500 | |
| 20 | Downlink | Low | 2120 | 424000 | 15 |
| | | Mid | 2145 | 429000 | |
| | | High | 2170 | 434000 | |
| | Uplink | Low | 1720 | 344000 | - |
| | | Mid | 1745 | 349000 | |
| | | High | 1770 | 354000 | |
| 30 | Downlink | Low | 2125 | 425000 | 15 |
| | | Mid | 2145 | 429000 | |
| | | High | 2165 | 433000 | |
| | Uplink | Low | 1725 | 345000 | - |
| | | Mid | 1745 | 349000 | |
| | | High | 1765 | 353000 | |
| 40 | Downlink | Low | 2130 | 426000 | 15 |
| | | Mid | 2145 | 429000 | |
| | | High | 2160 | 432000 | |
| | Uplink | Low | 1730 | 346000 | - |
| | | Mid | 1745 | 349000 | |
| | | High | 1760 | 352000 | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

3.9.8 Reference test frequencies for NR operating band n71

3.9.8.1 Test frequencies for NR operating band n71 and SCS 15 kHz

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 5 | Downlink | Low | 619.5 | 123900 | 15 |
| | | Mid | 634.5 | 126900 | |
| | | High | 649.5 | 129900 | |
| | Uplink | Low | 665.5 | 133100 | - |
| | | Mid | 680.5 | 136100 | |
| | | High | 695.5 | 139100 | |
| 10 | Downlink | Low | 622 | 124400 | 15 |
| | | Mid | 634.5 | 126900 | |
| | | High | 647 | 129400 | |
| | Uplink | Low | 668 | 133600 | - |
| | | Mid | 680.5 | 136100 | |
| | | High | 693 | 138600 | |
| 15 | Downlink | Low | 624.5 | 124900 | 15 |
| | | Mid | 634.5 | 126900 | |
| | | High | 644.5 | 128900 | |
| | Uplink | Low | 670.5 | 134100 | - |
| | | Mid | 680.5 | 136100 | |
| | | High | 690.5 | 138100 | |
| 20 | Downlink | Low | 627 | 125400 | 15 |
| | | Mid | 634.5 | 126900 | |
| | | High | 642 | 128400 | |
| | Uplink | Low | 673 | 134600 | - |
| | | Mid | 680.5 | 136100 | |
| | | High | 688 | 137600 | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

3.9.9 Reference test frequencies for NR operating band n77

3.9.9.1 Test frequencies for NR operating band n77 and SCS 30 kHz

3700-3980:

| CBW [MHz] | Range | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] | |
|-----------|-------------------|----------------------|------------------------|--------------------|----|
| 10 | Downlink & Uplink | Low | 3705 | 647000 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3975 | 665000 | |
| 15 | Downlink & Uplink | Low | 3707.52 | 647168 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3972.48 | 664832 | |
| 20 | Downlink & Uplink | Low | 3710.01 | 647334 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3969.99 | 664666 | |
| 30 | Downlink & Uplink | Low | 3714.99 | 647666 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3965.01 | 664334 | |
| 40 | Downlink & Uplink | Low | 3720 | 648000 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3960 | 664000 | |
| 50 | Downlink & Uplink | Low | 3725.01 | 648334 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3954.99 | 663666 | |
| 60 | Downlink & Uplink | Low | 3730.02 | 648668 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3949.98 | 663332 | |
| 70 | Downlink & Uplink | Low | 3735 | 649000 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3945 | 663000 | |
| 80 | Downlink & Uplink | Low | 3740.01 | 649334 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3939.99 | 662666 | |
| 90 | Downlink & Uplink | Low | 3745.02 | 649668 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3934.98 | 662332 | |
| 100 | Downlink & Uplink | Low | 3750 | 650000 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3930 | 662000 | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

3450-3550:

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|-------------------|------|----------------------|------------------------|--------------------|
| 10 | Downlink & Uplink | Low | 3455.01 | 630334 | 30 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3545.01 | 636334 | |
| 15 | Downlink & Uplink | Low | 3457.5 | 630500 | 30 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3542.49 | 636166 | |
| 20 | Downlink & Uplink | Low | 3460.02 | 630668 | 30 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3540 | 636000 | |
| 30 | Downlink & Uplink | Low | 3465 | 631000 | 30 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3534.99 | 635666 | |
| 40 | Downlink & Uplink | Low | 3470.01 | 631334 | 30 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3530.01 | 635334 | |
| 50 | Downlink & Uplink | Low | 3475.02 | 631668 | 30 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3525 | 635000 | |
| 60 | Downlink & Uplink | Low | 3480 | 632000 | 30 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3519.99 | 634666 | |
| 70 | Downlink & Uplink | Low | 3485.01 | 632334 | 30 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3515.01 | 634334 | |
| 80 | Downlink & Uplink | Low | 3490.02 | 632668 | 30 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3510 | 634000 | |
| 90 | Downlink & Uplink | Low | 3495 | 633000 | 30 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3504.99 | 633666 | |
| 100 | Downlink & Uplink | Low | \ | \ | 30 |
| | | Mid | 3500.01 | 633334 | |
| | | High | \ | \ | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

4 Description of Tests

4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Remark: Reference test setup 1



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

Report No.: SEWM2212000297RG02

Rev.: 01

Page: 31 of 45

4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8.4

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

4.3 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2 & 4.3

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

Remark: Reference test setup 1

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

4.4 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel), in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to peak or peak hold power.

Remark: Reference test setup 1

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. $RBW \geq 1\%$ of the emission bandwidth
4. $VBW \geq 3 \times RBW$
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/RBW$
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

t (86-512) 62992980 www.sgsgroup.com.cn

中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 sgs.china@sgs.com

4.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

Remark: Reference test setup 1

Test Settings

1. Start frequency was set to 9kHz and stop frequency was set to at least 10^* the fundamental frequency (Separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

4.6 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.2

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode.

Remark: Reference test setup 1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
 Wireless Laboratories

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

4.7 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

$$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (}\mu\text{V/m)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$$

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8; \text{ where D is the measurement distance in meters}$$

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

$$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$$

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8; \text{ where D is the measurement distance in meters}$$
- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.

Remark: Reference test setup 2

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBm) - Level(dBm)

- 2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

- 3) All modes have been tested, but only the worst case data displayed in this 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

4.8 Frequency Stability / Temperature Variation

Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01 Section 9

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Remark: Reference test setup 3



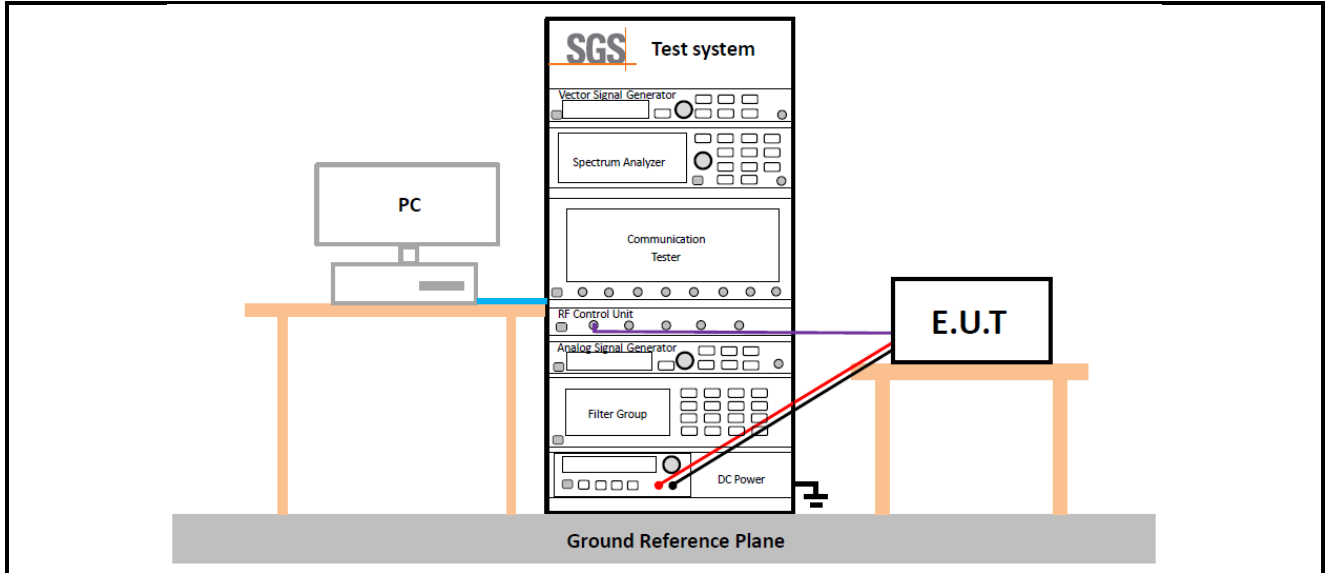
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

4.9 Test Setups

4.9.1 Test Setup 1



4.9.2 Test Setup 2

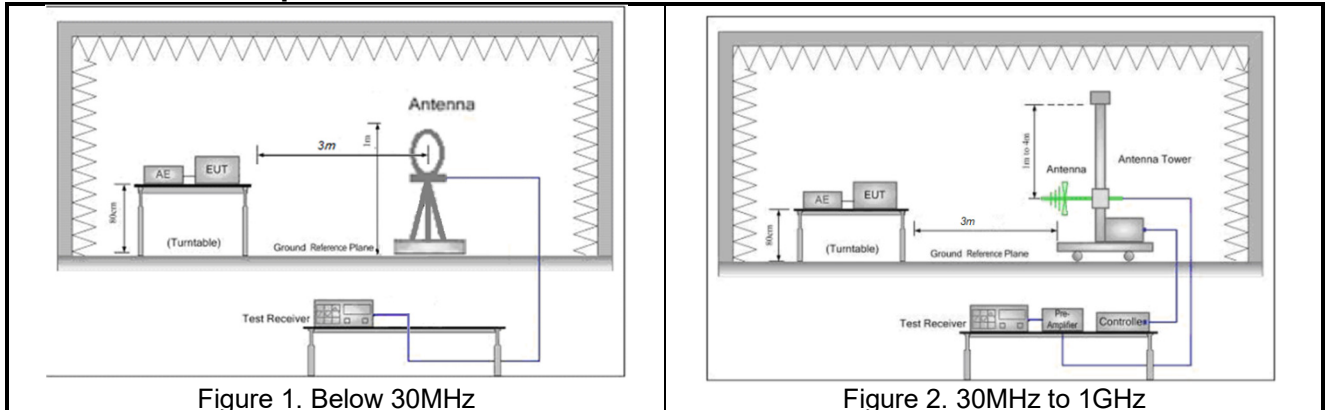


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

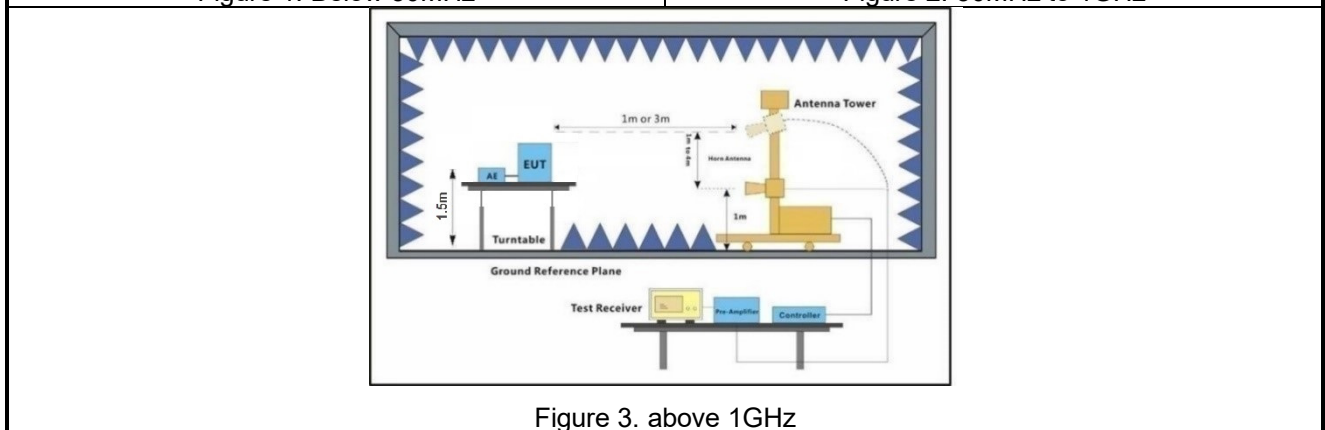


Figure 3. above 1GHz



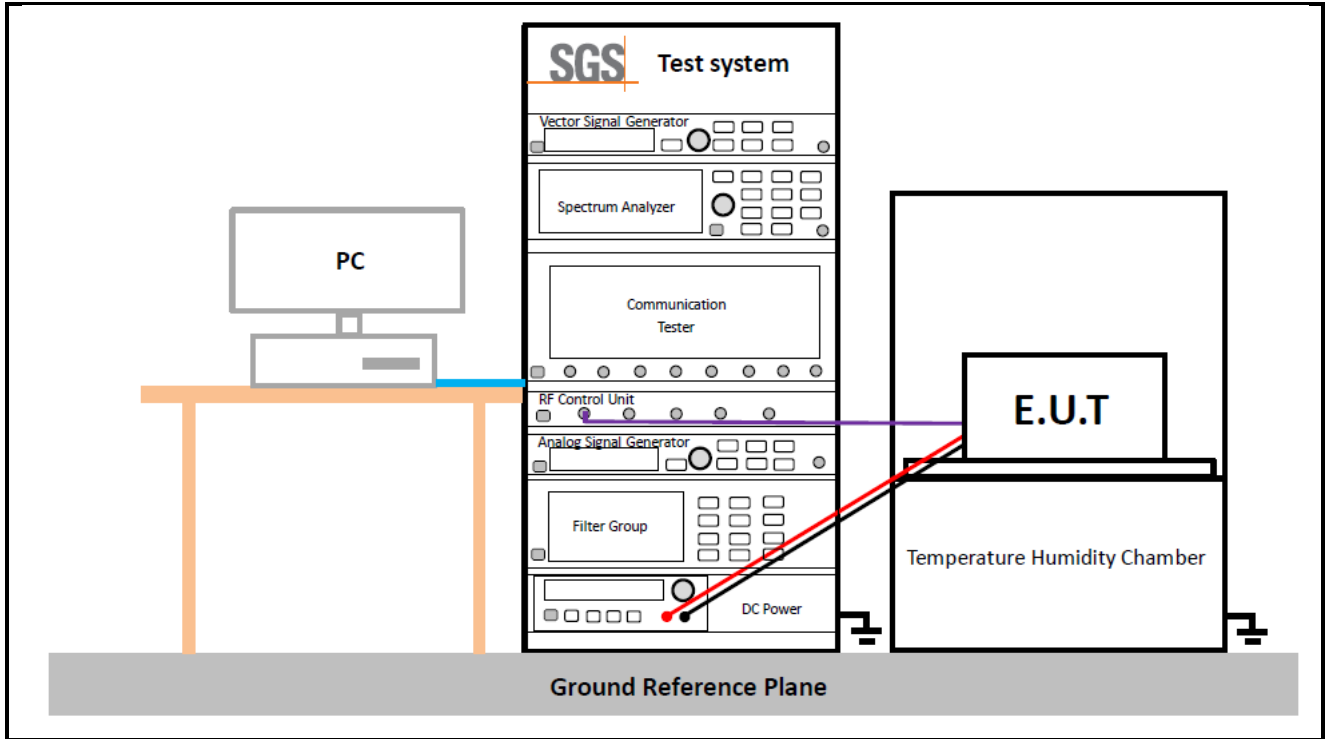
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南座 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

4.9.3 Test Setup 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

4.10 Test Conditions

| Transmit Output Power Data - Average Power, Total | |
|---|--|
| Test Case | Test Conditions |
| Test Environment | Ambient Climate & Rated Voltage |
| Test Setup | Test Setup 1 |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| Test Mode | NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5 |
| Peak-to-Average Ratio | |
| Test Case | Test Conditions |
| Test Environment | Ambient Climate & Rated Voltage |
| Test Setup | Test Setup 1 |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| Test Mode | NR/TM5; NR/TM9 |
| Modulation Characteristics | |
| Test Case | Test Conditions |
| Test Environment | Ambient Climate & Rated Voltage |
| Test Setup | Test Setup 1 |
| RF Channels (TX) | M (M= middle channel) |
| Test Mode | NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9 |
| Bandwidth - Occupied Bandwidth | |
| Test Case | Test Conditions |
| Test Environment | Ambient Climate & Rated Voltage |
| Test Setup | Test Setup 1 |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| Test Mode | NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9 |
| Bandwidth - Emission Bandwidth | |
| Test Case | Test Conditions |
| Test Environment | Ambient Climate & Rated Voltage |
| Test Setup | Test Setup 1 |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| Test Mode | NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9 |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

| Band Edges Compliance | |
|--|--|
| Test Case | Test Conditions |
| Test Environment | Ambient Climate & Rated Voltage |
| Test Setup | Test Setup 1 |
| RF Channels (TX) | L, H (L= low channel, H= high channel) |
| Test Mode | NR/TM1; NR/TM6 |
| Spurious Emission at Antenna Terminals | |
| Test Case | Test Conditions |
| Test Environment | Ambient Climate & Rated Voltage |
| Test Setup | Test Setup 1 |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| Test Mode | NR/TM1 |
| Field Strength of Spurious Radiation | |
| Test Case | Test Conditions |
| Test Environment | Ambient Climate & Rated Voltage |
| Test Setup | Test Setup 2 |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| Test Mode | NR/TM1 Remark: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected. |
| Frequency Stability | |
| Test Case | Test Conditions |
| Test Environment | (1) -40 °C to +75 °C with step 10 °C at Rated Voltage (2) VL, VN and VH of Rated Voltage at Ambient Climate. |
| Test Setup | Test Setup 3 |
| RF Channels (TX) | M (M= middle channel) |
| Test Mode | NR/TM1; NR/TM6 |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

5 Main Test Instruments

| RF conducted test | | | | | |
|---|---------------|---|---------------|------------------------|---------------------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date (yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Shielding Room | Brilliant-emc | N/A | SUWI-04-01-06 | 2021/05/08 | 2024/05/07 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-07 | 2022/02/16 | 2023/02/15 |
| Signal Analyzer | ROHDE&SCHWARZ | FSV3030 | SUWI-01-02-02 | 2022/05/17 | 2023/05/16 |
| Measurement Software | Tonscend | JS1120-3 Test System V 2.6.88.0336 | SUWI-02-09-09 | NCR | NCR |
| Wideband Radio Communication Tester | ROHDE&SCHWARZ | CMW500 | SUWI-01-16-05 | 2022/02/14 | 2023/02/13 |
| DC Power Supply | HYELEC | HY3005B | SUWI-01-18-01 | 2022/02/15 | 2023/02/14 |
| Temperature Chamber | ESPEC | SU-242 | SUWI-01-13-01 | 2022/02/15 | 2023/02/14 |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2022/05/28 | 2023/05/27 |
| Wideband Radio Communication Tester station | Anritsu | MT8000A | SUWI-01-34-02 | 2022/09/16 | 2023/09/15 |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

| RSE Test System | | | | | |
|--------------------------------|-----------------------------------|---------------------|---------------|-----------------------|---------------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date (yyyy/mm/dd) | Cal Due Date (yyyy/mm/dd) |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | SUWI-04-02-01 | 2021/05/08 | 2024/05/07 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-05 | 2022/02/16 | 2023/02/15 |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2022/05/28 | 2023/05/27 |
| Signal Analyzer | KEYSIGHT | N9020A | SUWI-01-02-05 | 2022/11/23 | 2023/11/22 |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2022/02/19 | 2023/02/18 |
| Receiving antenna | SCHWRZBECK MESS- ELEKTRONIK | VULB 9163 | SUWI-01-11-01 | 2021/05/16 | 2023/05/15 |
| Receiving antenna | SCHWRZBECK MESS- ELEKTRONIK | BBHA 9120D | SUWI-01-11-02 | 2021/05/16 | 2023/05/15 |
| Receiving antenna | SCHWRZBECK MESS- ELEKTRONIK | BBHA 9170 | SUWI-01-11-03 | 2021/05/14 | 2023/05/13 |
| Amplifier | Tonscend | TAP9K3G40 | SUWI-01-14-01 | 2022/02/14 | 2023/02/13 |
| Amplifier | Tonscend | TAP01018050 | SUWI-01-14-02 | 2022/02/14 | 2023/02/13 |
| Amplifier | Tonscend | TAP18040048 | SUWI-01-14-03 | 2022/02/19 | 2023/02/18 |
| Active Loop Antenna | SCHWRZBECK MESS- ELEKTRONIK | FMZB 1519B | SUWI-01-21-01 | 2021/06/10 | 2023/06/09 |
| UXM 5G Wireless Test Platform | KEYSIGHT | E7515B | SUWI-01-04-01 | 2022/02/20 | 2023/02/19 |
| Measurement Software | Tonscend | JS32-RE V4.0.0.0 | SUWI-02-09-04 | NCR | NCR |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

6 Measurement Uncertainty

For a 95% confidence level ($k = 2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

| No. | Item | Measurement Uncertainty |
|---|-------------------------------|-------------------------------------|
| 1 | Total RF power, conducted | $\pm 0.54\text{dB}$ |
| 2 | RF power density, conducted | $\pm 1.03\text{dB}$ |
| 3 | Spurious emissions, conducted | $\pm 0.54\text{dB}$ |
| 4 | Radio Frequency | $\pm 1.0\%$ |
| 5 | Duty Cycle | $\pm 0.37\%$ |
| 6 | Occupied Bandwidth | $\pm 1.0\%$ |
| 7 | Radiated Emission | $\pm 3.13\text{dB}$ (9k -30MHz) |
| | | $\pm 4.8\text{dB}$ (30M -1GHz) |
| | | $\pm 4.8\text{dB}$ (1GHz to 18 GHz) |
| | | $\pm 4.8\text{dB}$ (Above 18GHz) |
| Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. | | |



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

7 Appendixes

| | |
|---------------|------------------------|
| Appendix A.2 | WWAN Setup Photos |
| Appendix B.20 | NR Band n2 |
| Appendix B.21 | NR Band n5 |
| Appendix B.22 | NR Band n7 |
| Appendix B.23 | NR Band n12 |
| Appendix B.24 | NR Band n25 |
| Appendix B.25 | NR Band n41 |
| Appendix B.26 | NR Band n66 |
| Appendix B.27 | NR Band n71 |
| Appendix B.28 | NR Band n77(3450-3550) |
| Appendix B.29 | NR Band n77(3700-3980) |

---End of 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com