



Appendix B.3

LTE Band 13



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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057
中国·广东·深圳市南山区科技园中区M-10栋1号厂房

t (86-755) 26012053 www.sgsgroup.com.cn
t (86-755) 26012053 sgs.china@sgs.com

Effective (Isotropic) Radiated Power Output Data**Test Result**

ANT7

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band13 | 5MHz | QPSK | 23205 | 1RB#0 | 23.91 | 25.16 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#12 | 24.02 | 25.27 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 1RB#24 | 23.99 | 25.24 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 22.71 | 23.96 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#0 | 23.96 | 25.21 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#12 | 23.97 | 25.22 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 1RB#24 | 23.92 | 25.17 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 22.87 | 24.12 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#0 | 23.98 | 25.23 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#12 | 23.97 | 25.22 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 1RB#24 | 23.97 | 25.22 | 34.77 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 22.84 | 24.09 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#0 | 23.24 | 24.49 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#12 | 23.20 | 24.45 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 1RB#24 | 23.23 | 24.48 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 21.75 | 23.00 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#0 | 23.19 | 24.44 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#12 | 23.06 | 24.31 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 1RB#24 | 23.16 | 24.41 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 25RB#0 | 21.94 | 23.19 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#0 | 23.19 | 24.44 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#12 | 23.11 | 24.36 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 1RB#24 | 23.10 | 24.35 | 34.77 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | 21.86 | 23.11 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 1RB#0 | 21.96 | 23.21 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 1RB#12 | 21.93 | 23.18 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 1RB#24 | 22.00 | 23.25 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 25RB#0 | 21.21 | 22.46 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 1RB#0 | 22.03 | 23.28 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 1RB#12 | 21.95 | 23.20 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 1RB#24 | 22.05 | 23.30 | 34.77 | PASS |



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



| | | | | | | | | |
|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band13 | 5MHz | 64QAM | 23230 | 25RB#0 | 21.40 | 22.65 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 1RB#0 | 21.95 | 23.20 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 1RB#12 | 22.00 | 23.25 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 1RB#24 | 21.99 | 23.24 | 34.77 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 25RB#0 | 21.35 | 22.60 | 34.77 | PASS |
| Band13 | 5MHz | 256QAM | 23205 | 1RB#0 | 19.36 | 20.61 | 34.77 | PASS |
| Band13 | 5MHz | 256QAM | 23205 | 1RB#12 | 19.45 | 20.70 | 34.77 | PASS |
| Band13 | 5MHz | 256QAM | 23205 | 1RB#24 | 19.38 | 20.63 | 34.77 | PASS |
| Band13 | 5MHz | 256QAM | 23205 | 25RB#0 | 19.09 | 20.34 | 34.77 | PASS |
| Band13 | 5MHz | 256QAM | 23230 | 1RB#0 | 19.41 | 20.66 | 34.77 | PASS |
| Band13 | 5MHz | 256QAM | 23230 | 1RB#12 | 19.36 | 20.61 | 34.77 | PASS |
| Band13 | 5MHz | 256QAM | 23230 | 1RB#24 | 19.42 | 20.67 | 34.77 | PASS |
| Band13 | 5MHz | 256QAM | 23230 | 25RB#0 | 19.01 | 20.26 | 34.77 | PASS |
| Band13 | 5MHz | 256QAM | 23255 | 1RB#0 | 19.48 | 20.73 | 34.77 | PASS |
| Band13 | 5MHz | 256QAM | 23255 | 1RB#12 | 19.49 | 20.74 | 34.77 | PASS |
| Band13 | 5MHz | 256QAM | 23255 | 1RB#24 | 19.44 | 20.69 | 34.77 | PASS |
| Band13 | 5MHz | 256QAM | 23255 | 25RB#0 | 19.03 | 20.28 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#0 | 24.00 | 25.25 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#24 | 23.98 | 25.23 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 1RB#49 | 23.92 | 25.17 | 34.77 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 22.88 | 24.13 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#0 | 23.28 | 24.53 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#24 | 23.27 | 24.52 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#49 | 23.21 | 24.46 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 21.90 | 23.15 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#0 | 22.02 | 23.27 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#24 | 22.00 | 23.25 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#49 | 21.98 | 23.23 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | 21.39 | 22.64 | 34.77 | PASS |
| Band13 | 10MHz | 256QAM | 23230 | 1RB#0 | 19.46 | 20.71 | 34.77 | PASS |
| Band13 | 10MHz | 256QAM | 23230 | 1RB#24 | 19.49 | 20.74 | 34.77 | PASS |
| Band13 | 10MHz | 256QAM | 23230 | 1RB#49 | 19.41 | 20.66 | 34.77 | PASS |
| Band13 | 10MHz | 256QAM | 23230 | 50RB#0 | 19.11 | 20.36 | 34.77 | PASS |



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

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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057
中国·广东·深圳市南山区科技园中区M-10栋1号厂房

t (86-755) 26012053 www.sgs.com.cn
t (86-755) 26012053 sgs.china@sgs.com



Peak-to-Average Ratio(CCDF)

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 5.91 | 13 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 6.49 | 13 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | 6.61 | 13 | PASS |
| Band13 | 10MHz | 256QAM | 23230 | 50RB#0 | 6.61 | 13 | PASS |

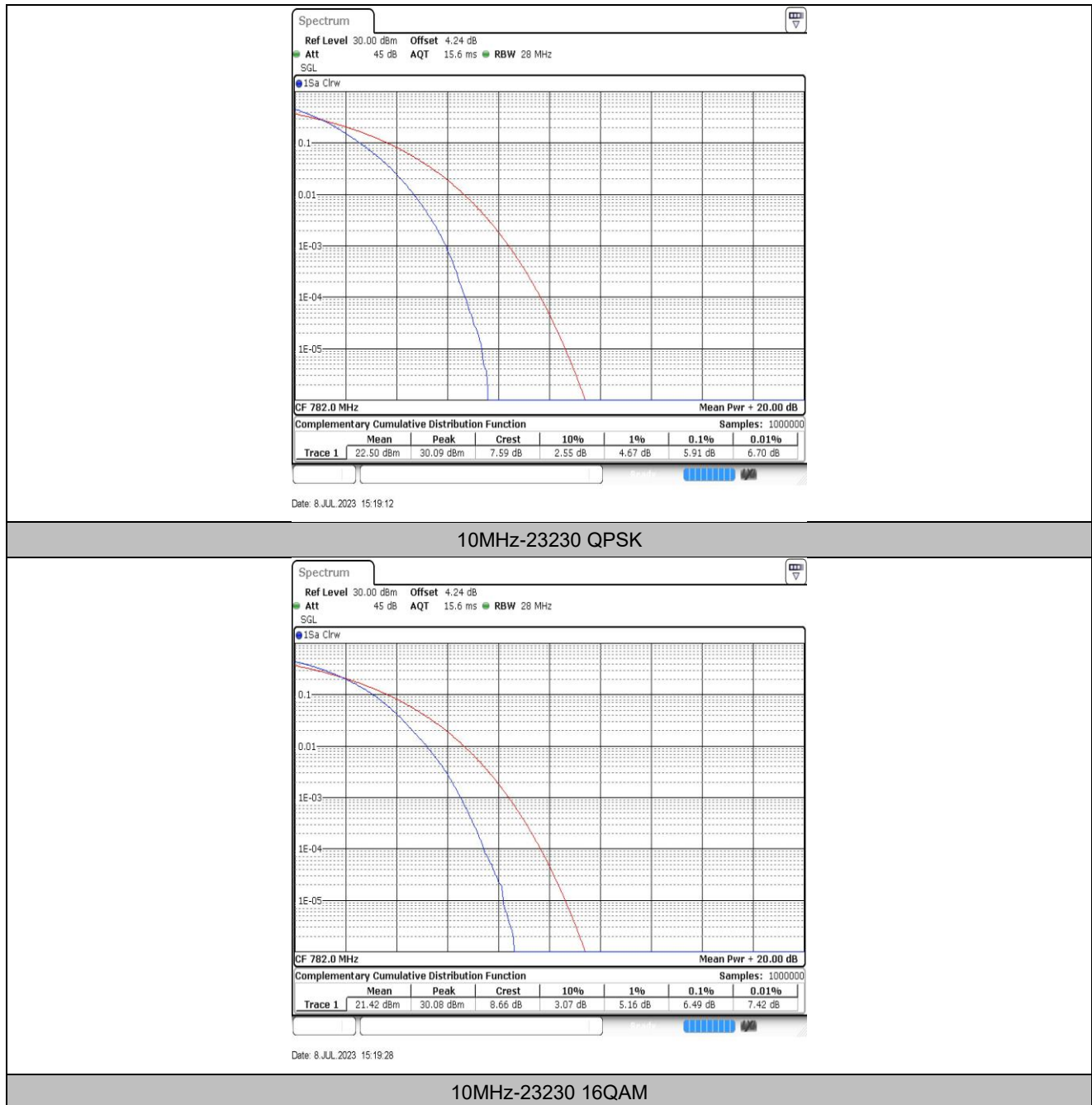


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com

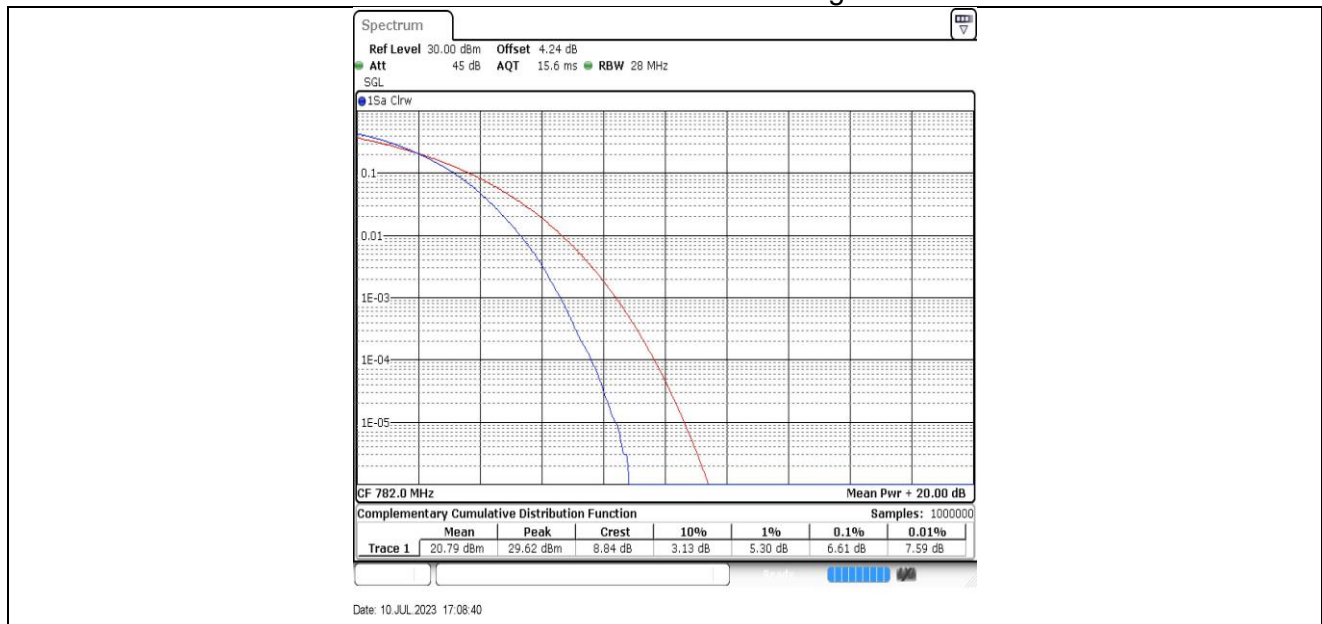
Test Graphs



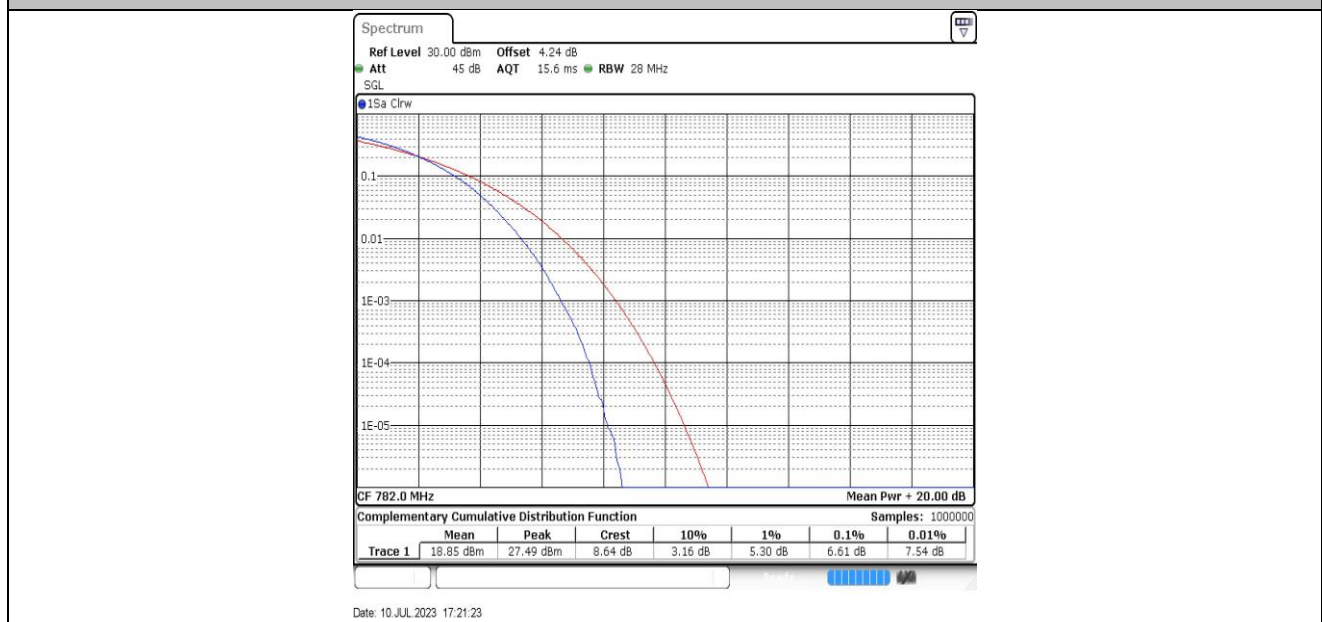
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



10MHz-23230 64QAM



10MHz-23230 256QAM



26dB Bandwidth and Occupied Bandwidth**Test Result**

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band13 | 5MHz | QPSK | 23205 | 25RB#0 | 4.456 | 4.81 | PASS |
| Band13 | 5MHz | QPSK | 23230 | 25RB#0 | 4.476 | 4.88 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | 4.466 | 4.84 | PASS |
| Band13 | 5MHz | 16QAM | 23205 | 25RB#0 | 4.456 | 4.85 | PASS |
| Band13 | 5MHz | 16QAM | 23230 | 25RB#0 | 4.466 | 4.88 | PASS |
| Band13 | 5MHz | 16QAM | 23255 | 25RB#0 | 4.466 | 4.84 | PASS |
| Band13 | 5MHz | 64QAM | 23205 | 25RB#0 | 4.456 | 4.86 | PASS |
| Band13 | 5MHz | 64QAM | 23230 | 25RB#0 | 4.486 | 4.90 | PASS |
| Band13 | 5MHz | 64QAM | 23255 | 25RB#0 | 4.466 | 4.86 | PASS |
| Band13 | 5MHz | 256QAM | 23205 | 25RB#0 | 4.456 | 4.79 | PASS |
| Band13 | 5MHz | 256QAM | 23230 | 25RB#0 | 4.476 | 4.85 | PASS |
| Band13 | 5MHz | 256QAM | 23255 | 25RB#0 | 4.456 | 4.82 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | 8.911 | 9.60 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 8.911 | 9.58 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | 8.931 | 9.62 | PASS |
| Band13 | 10MHz | 256QAM | 23230 | 50RB#0 | 8.911 | 9.60 | PASS |



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

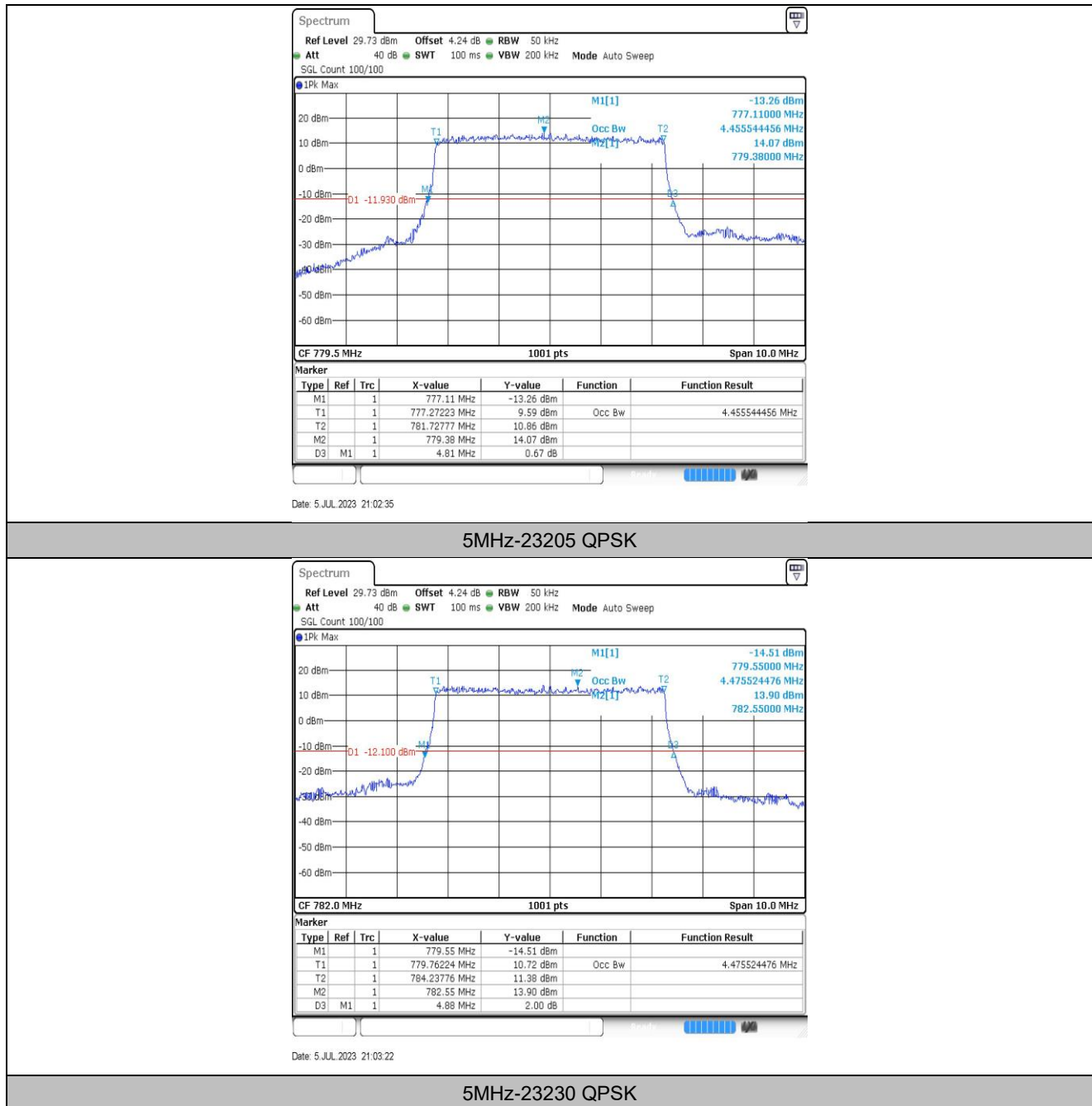
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057
中国·广东·深圳市南山区科技园中区M-10栋1号厂房

t (86-755) 26012053 www.sgs.com.cn
t (86-755) 26012053 sgs.china@sgs.com

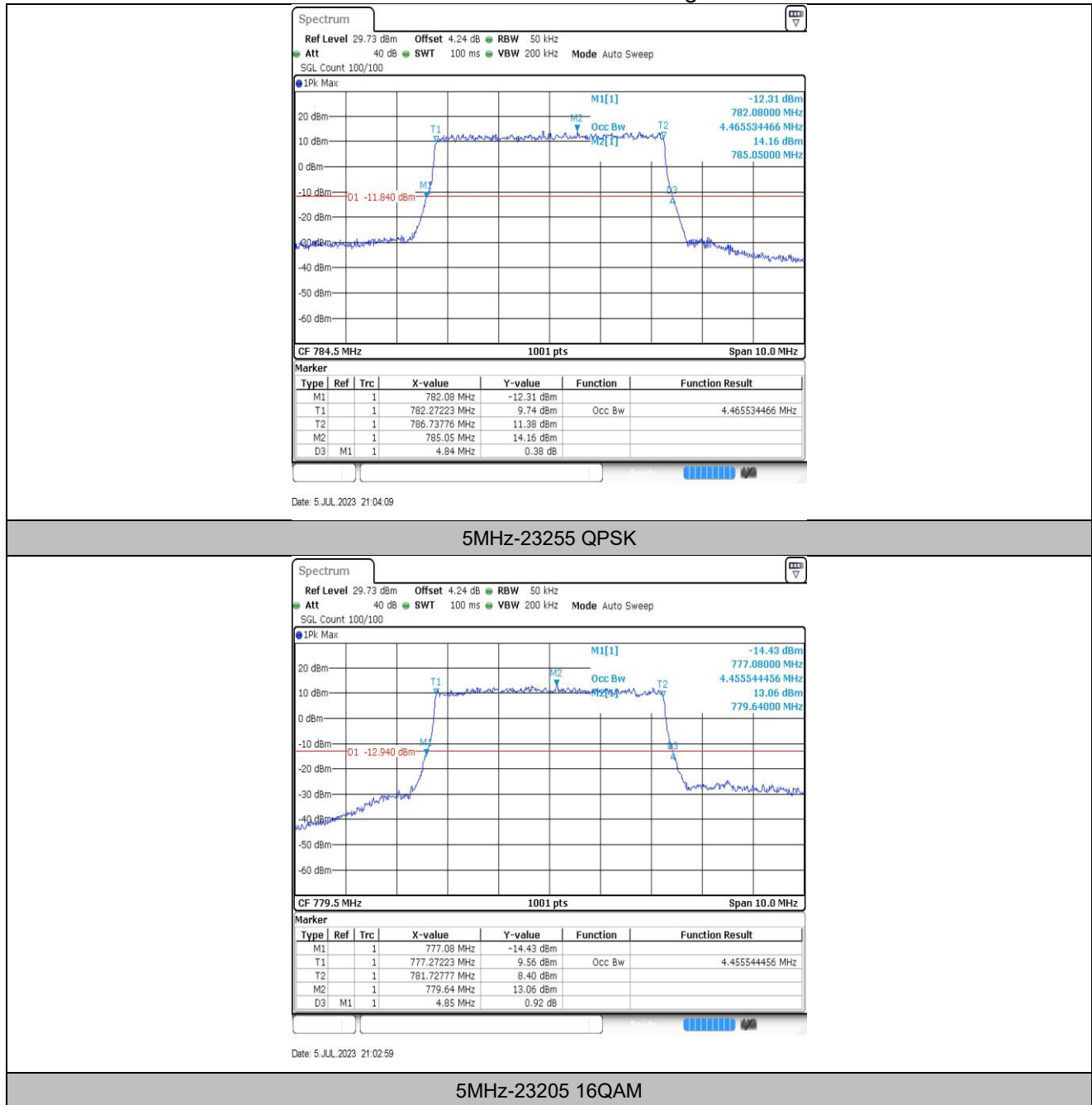
Test Graphs

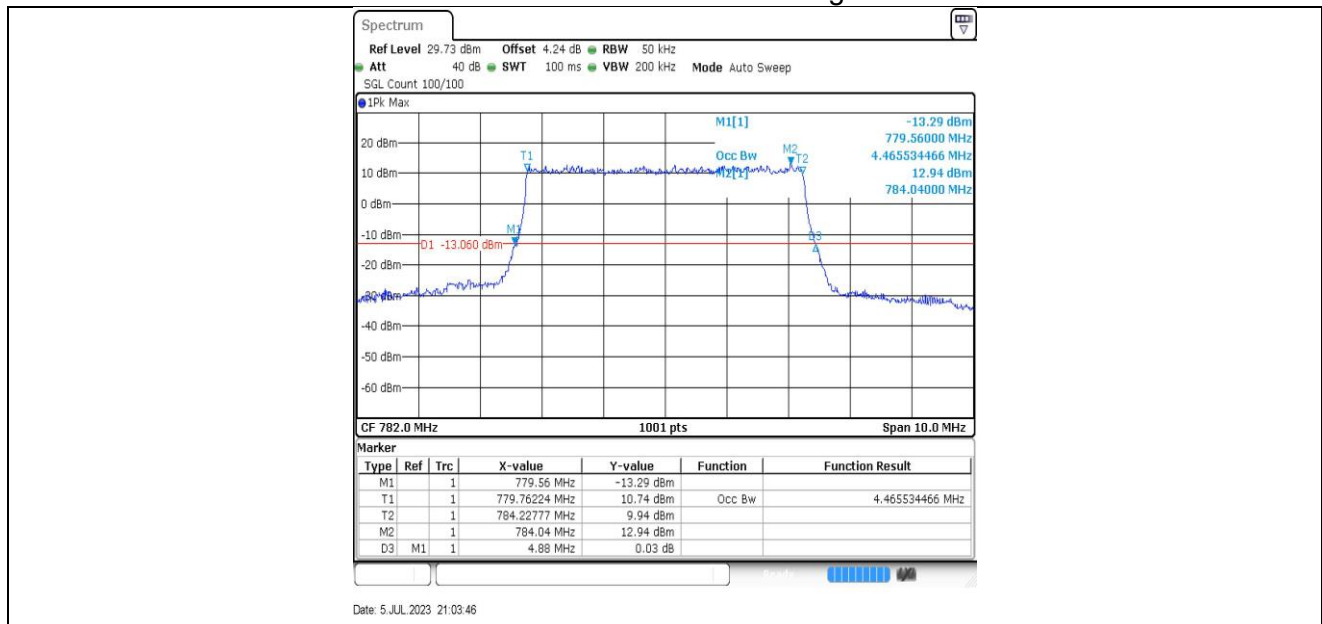


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

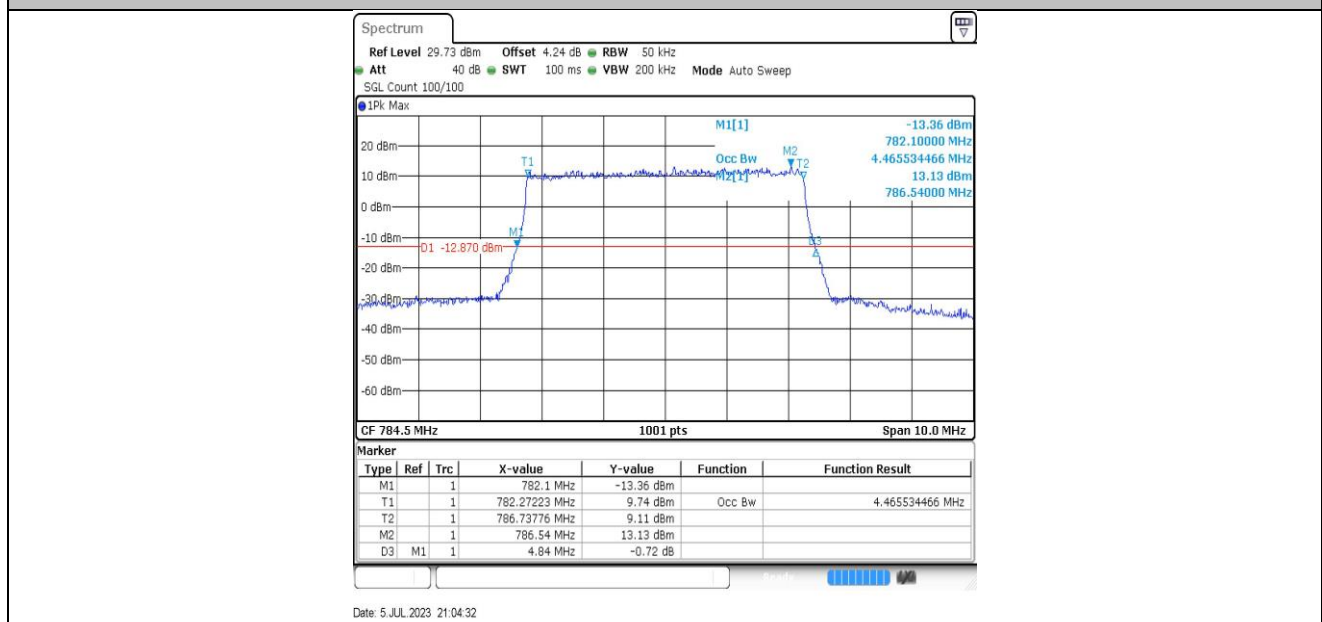
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



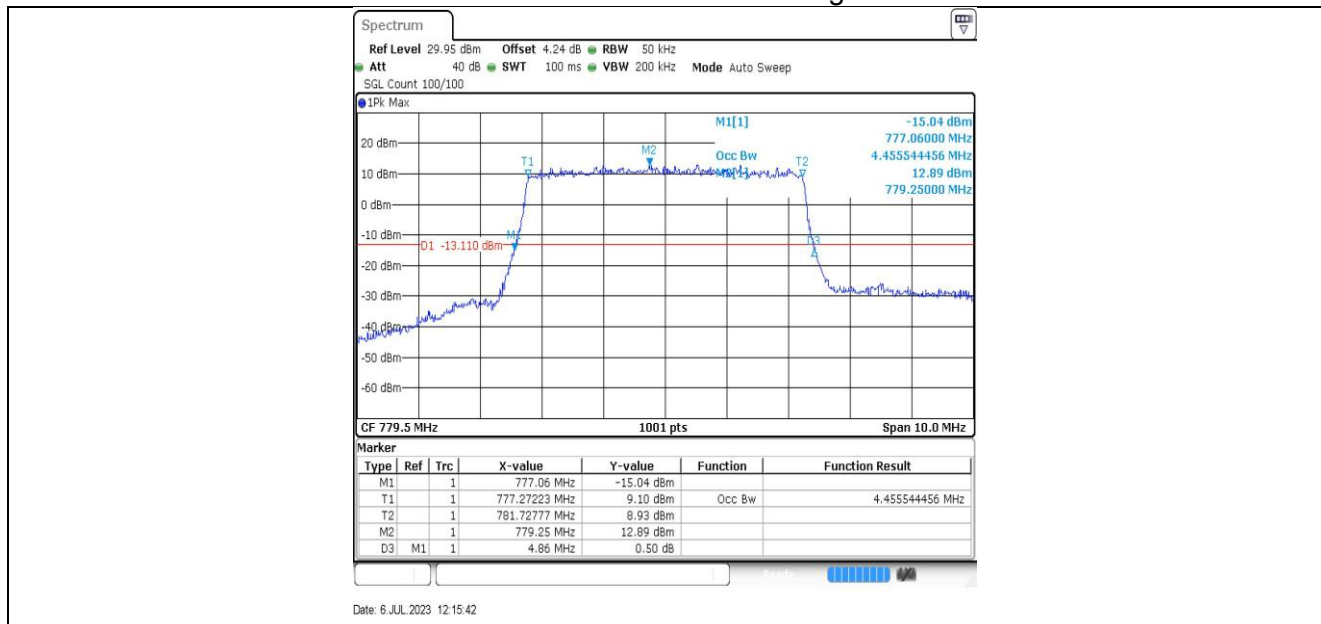


5MHz-23230 16QAM

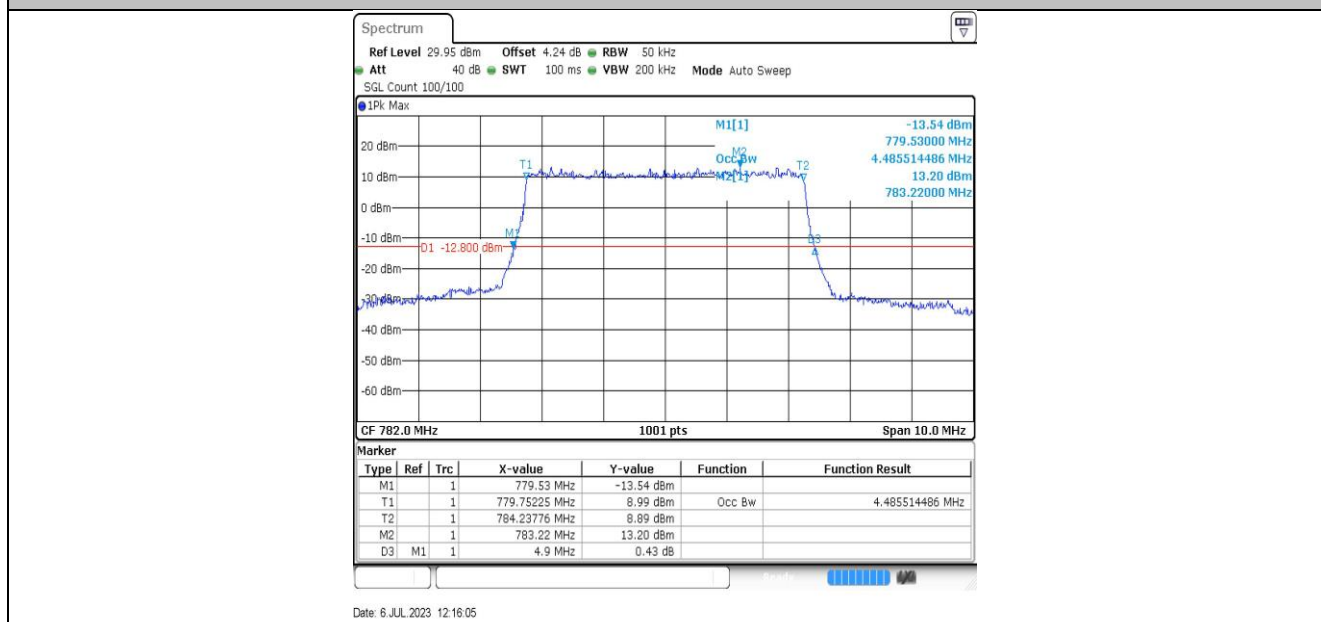


5MHz-23255 16QAM





5MHz-23205 64QAM



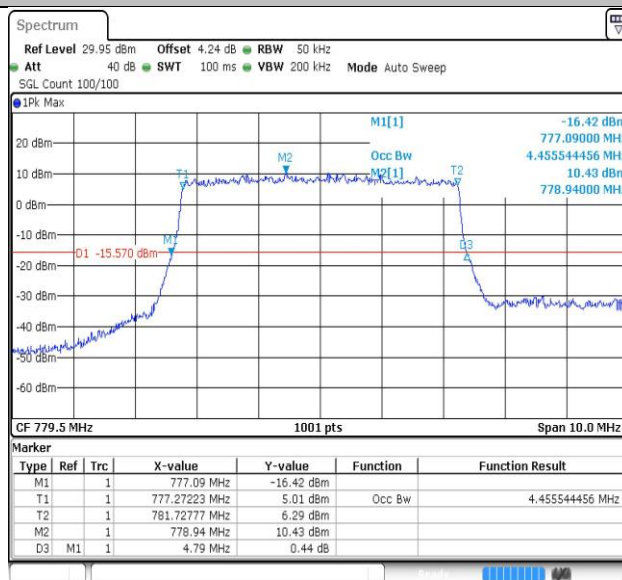
5MHz-23230 64QAM





Date: 6 JUL 2023 12:16:28

5MHz-23255 64QAM



Date: 11 JUL 2023 14:34:50

5MHz-23205 256QAM

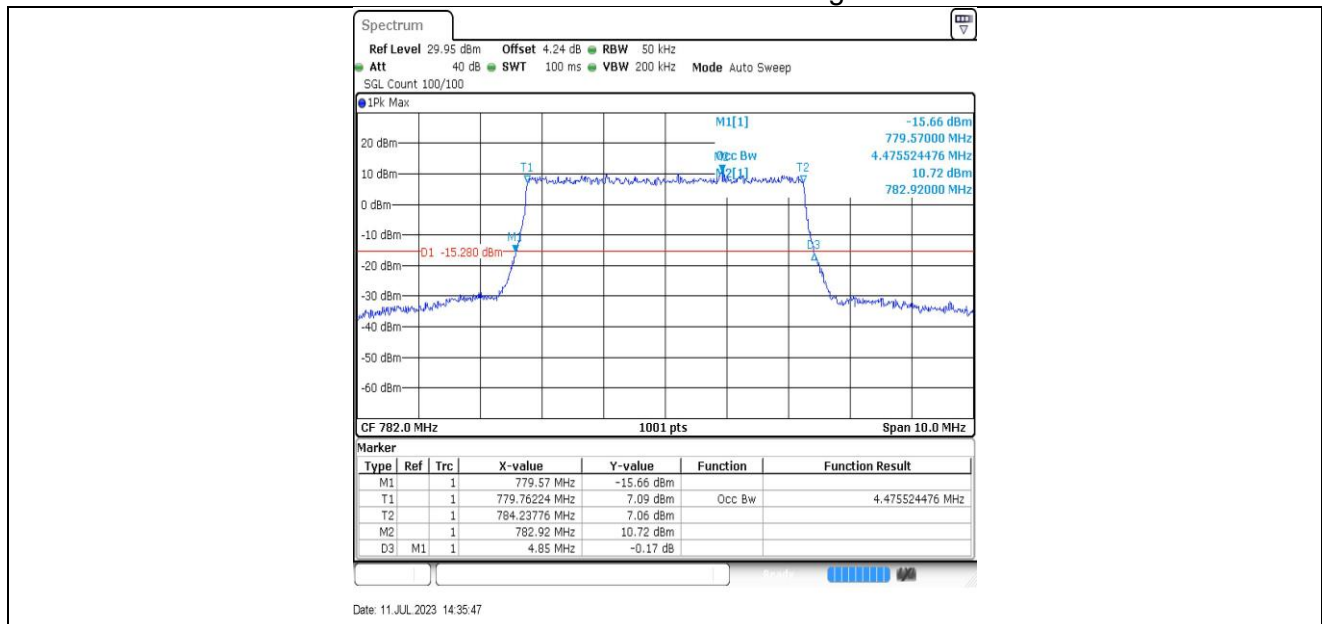


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

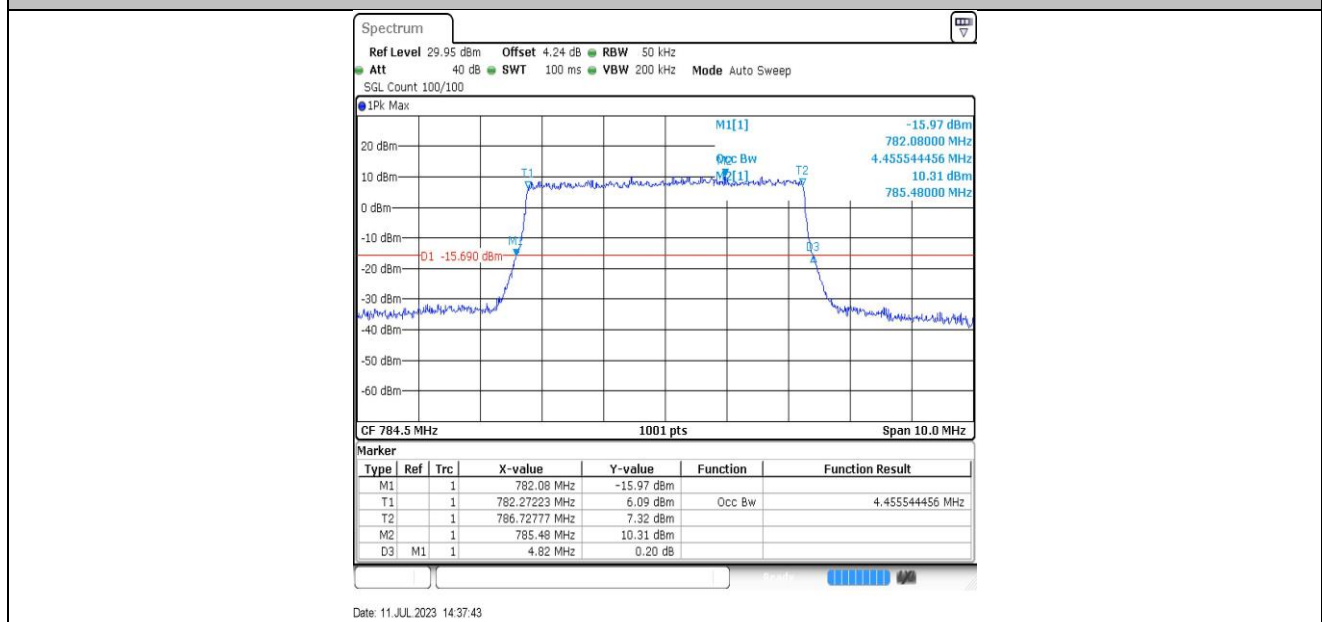
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com

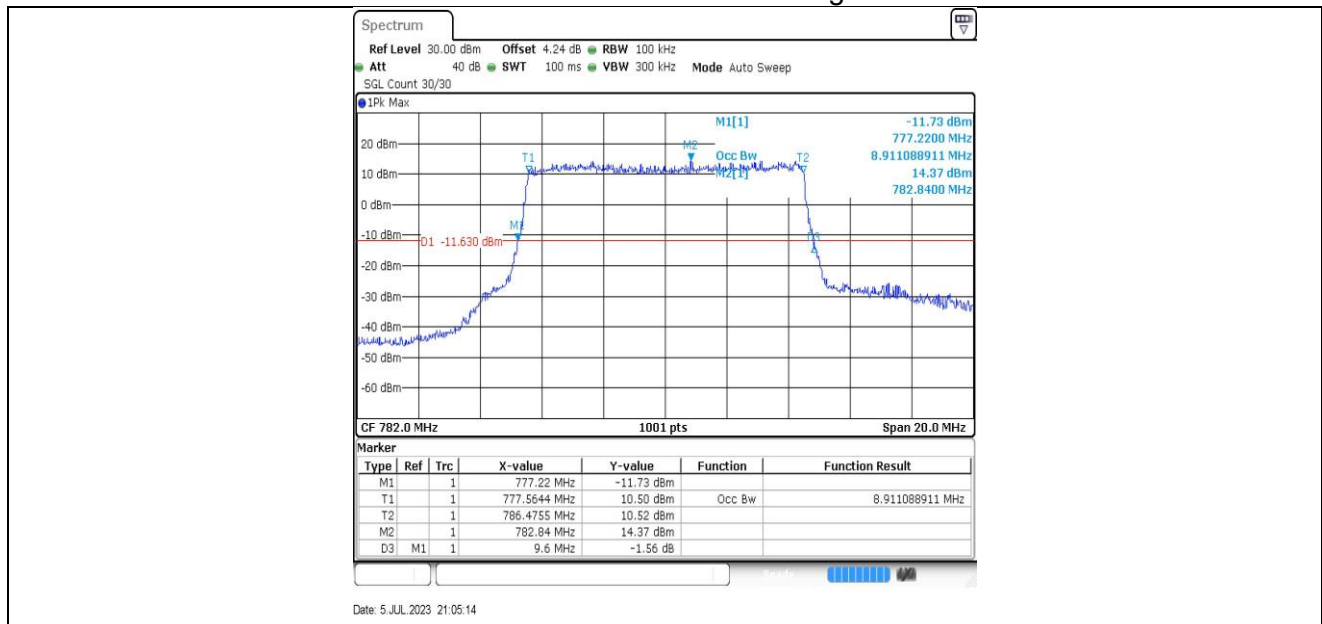


5MHz-23230 256QAM

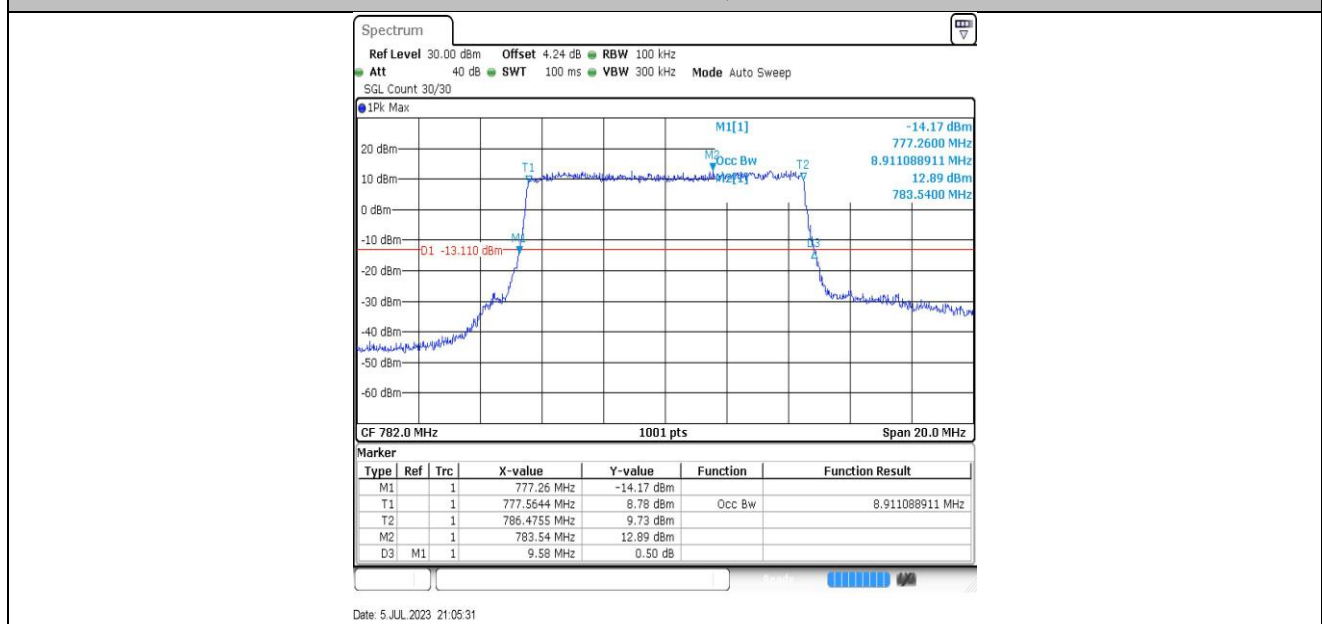


5MHz-23255 256QAM





10MHz-23230 QPSK



10MHz-23230 16QAM

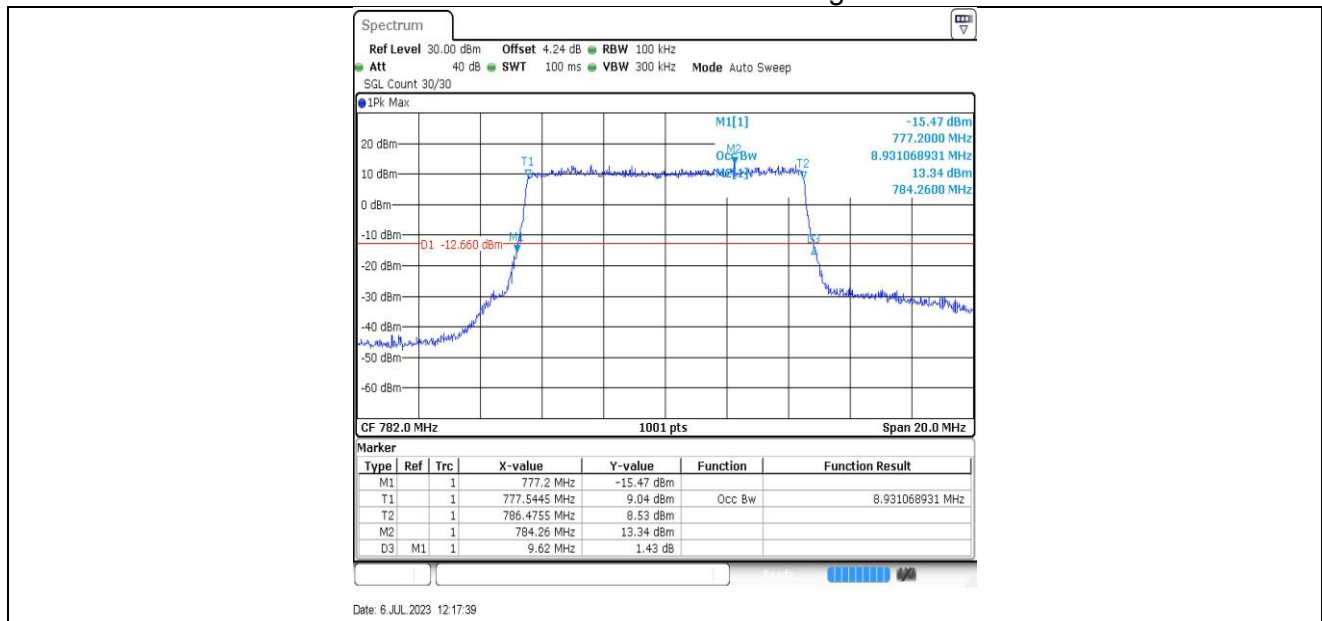


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

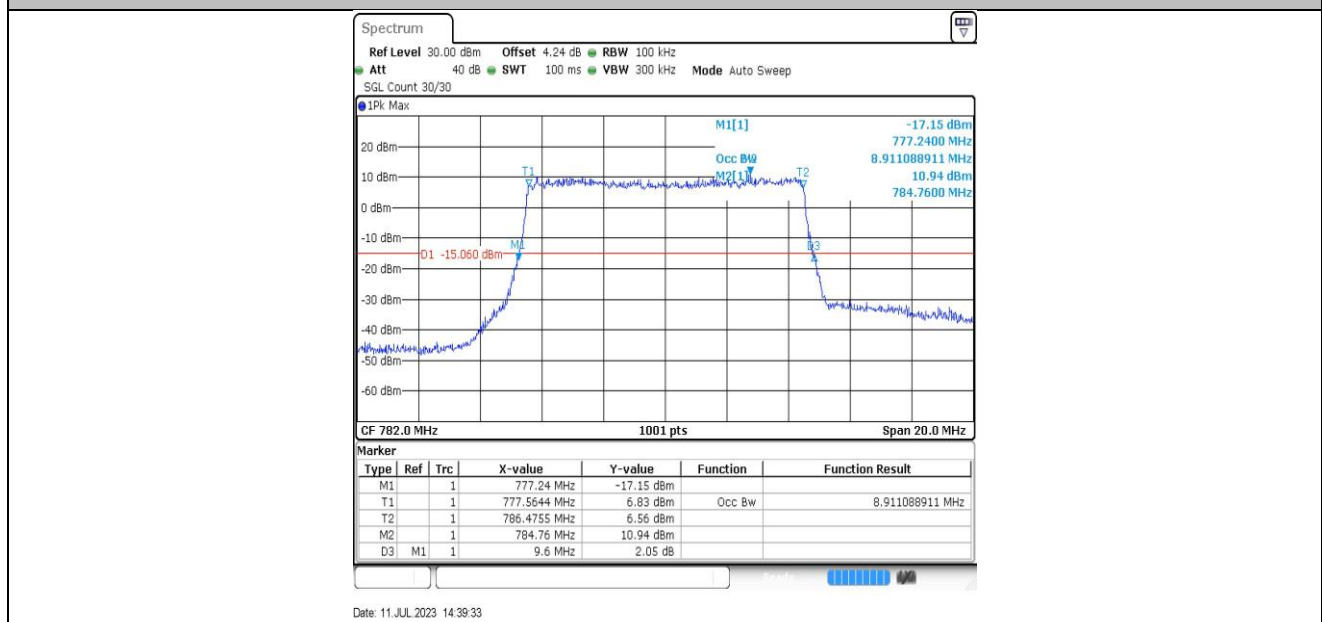
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



10MHz-23230 64QAM

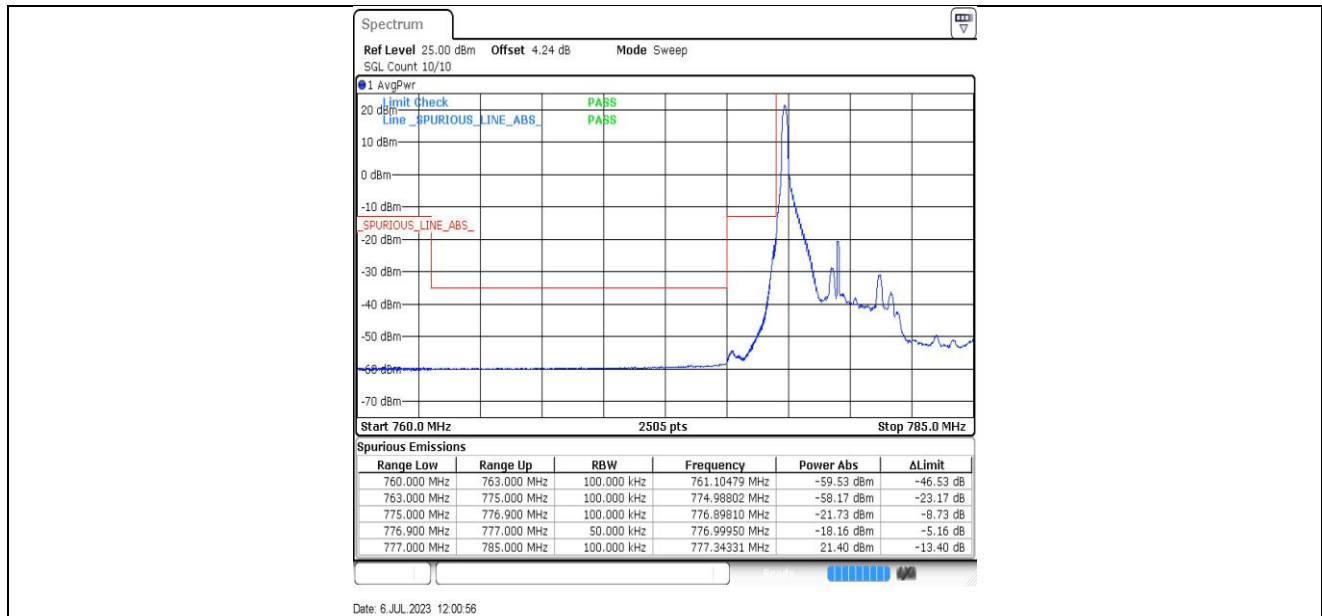


10MHz-23230 256QAM

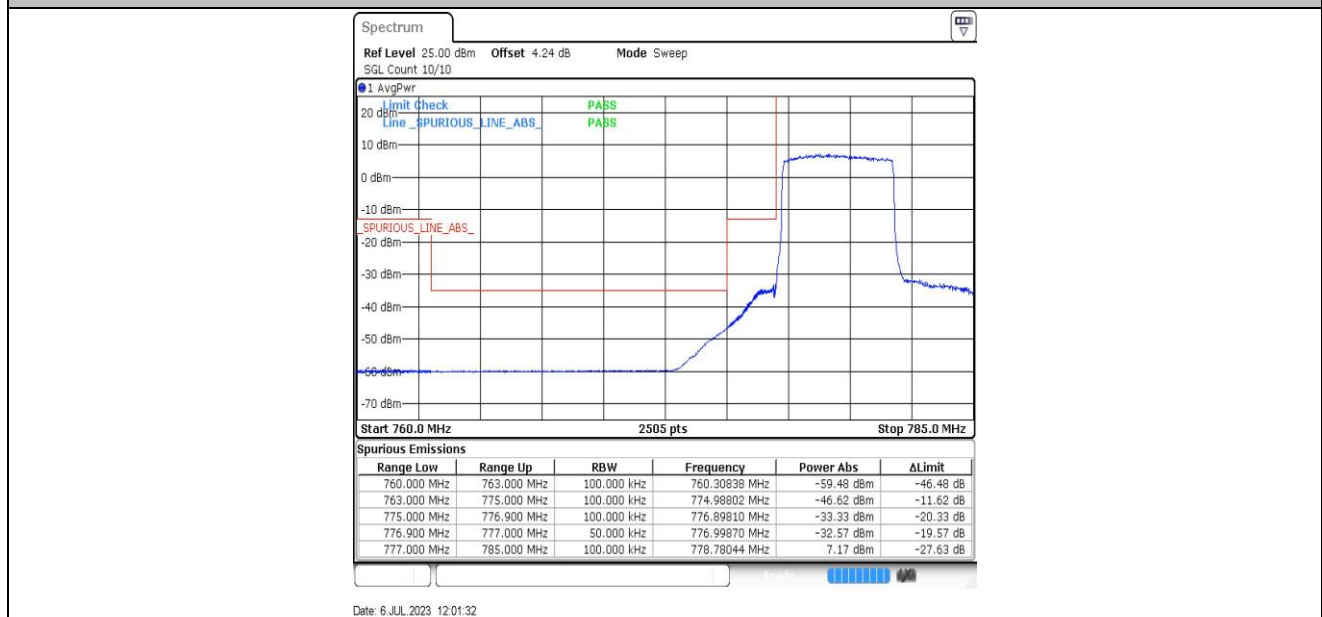


Band Edge

Test Graphs



5MHz-23205



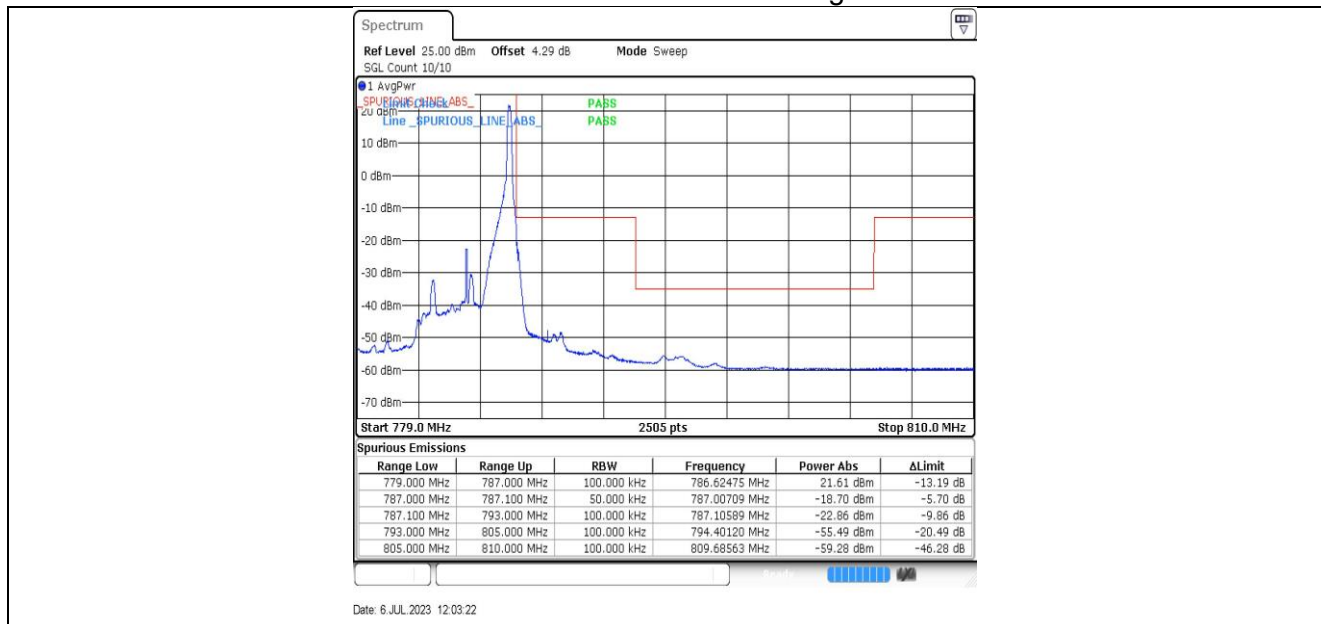
5MHz-23205



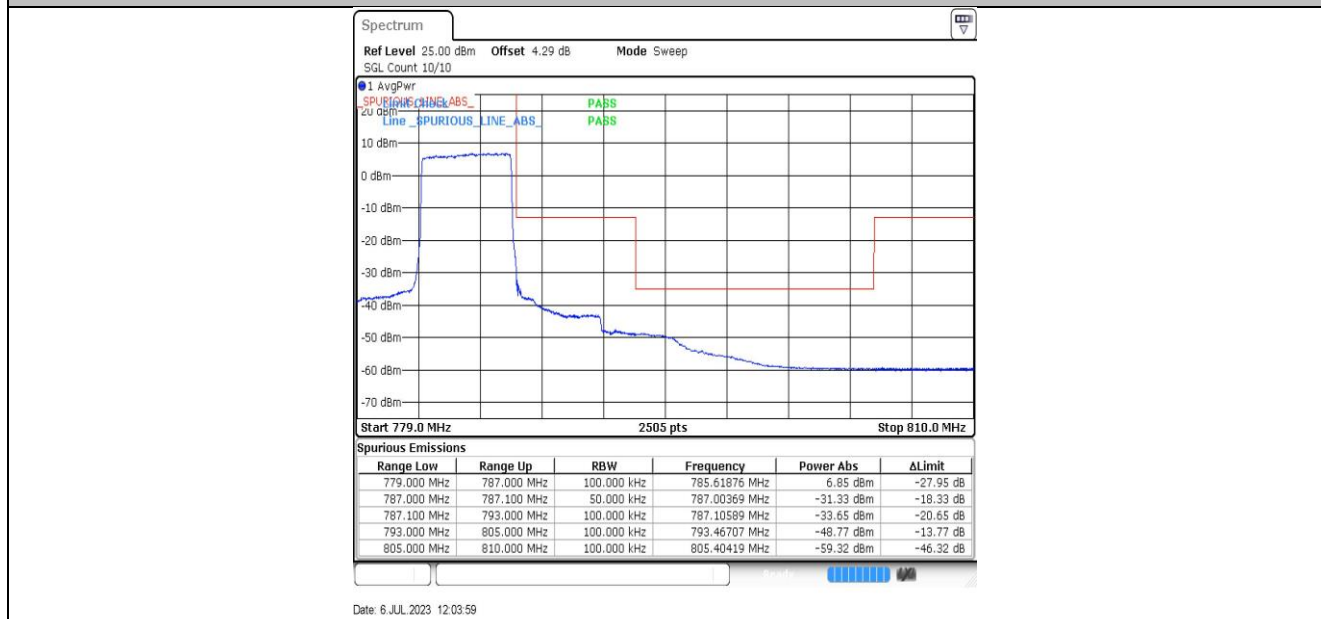
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com

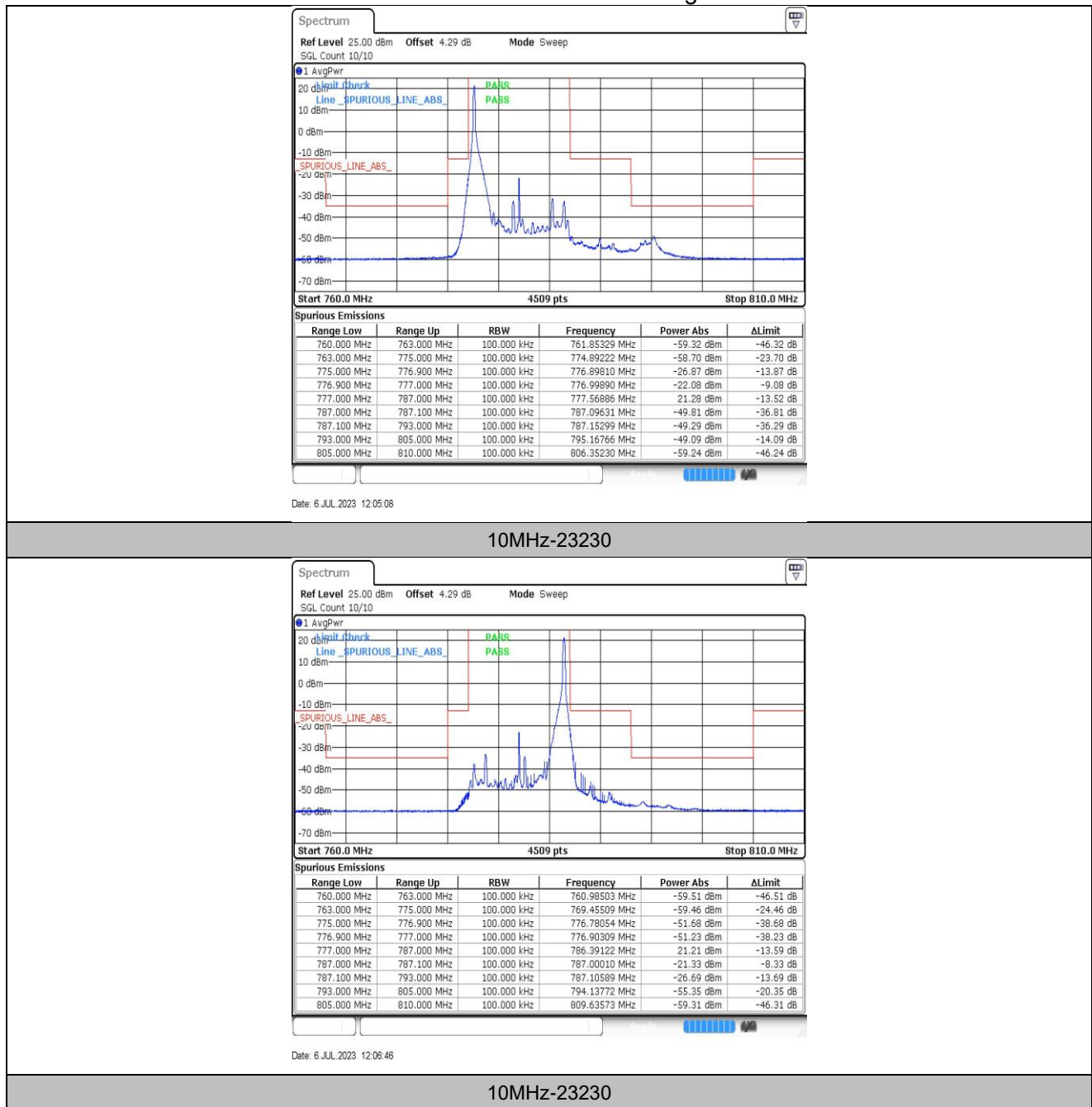


5MHz-23255



5MHz-23255

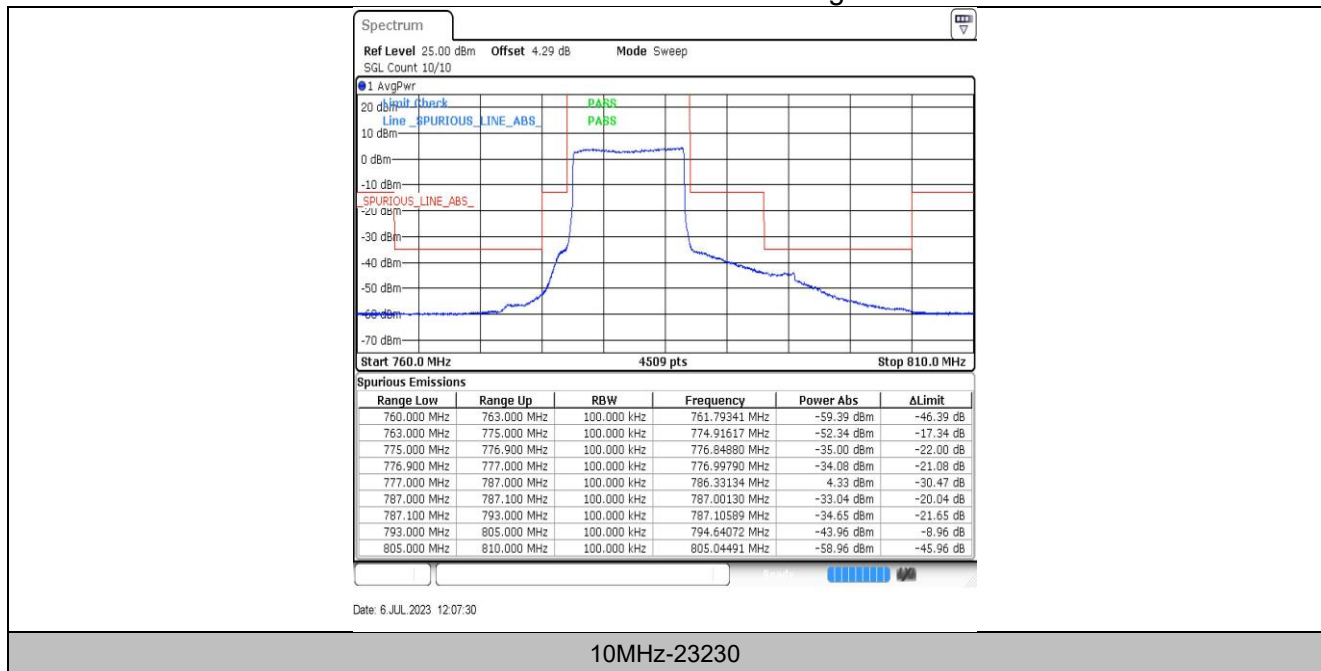




Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com

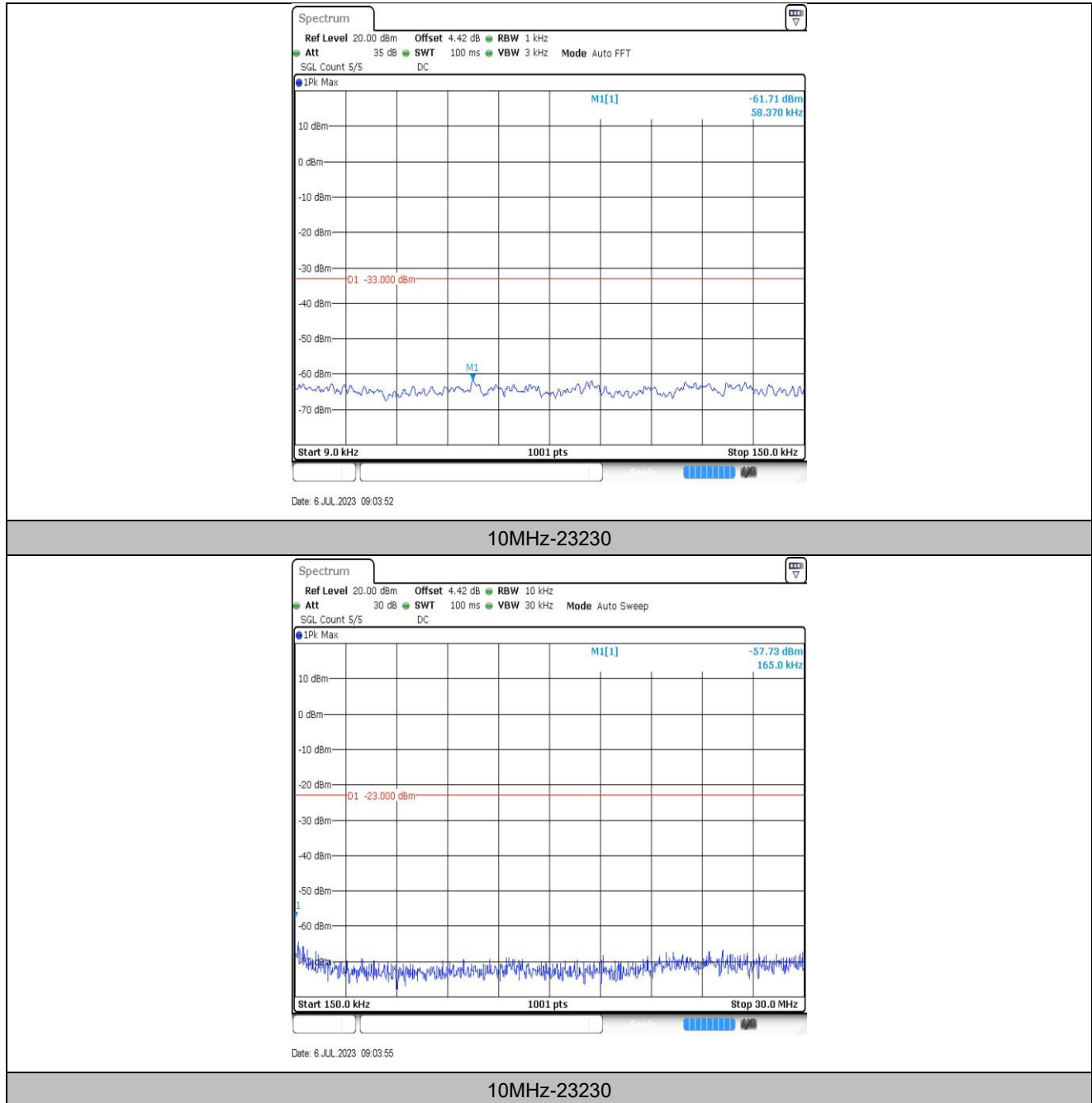


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

Conducted Spurious Emission

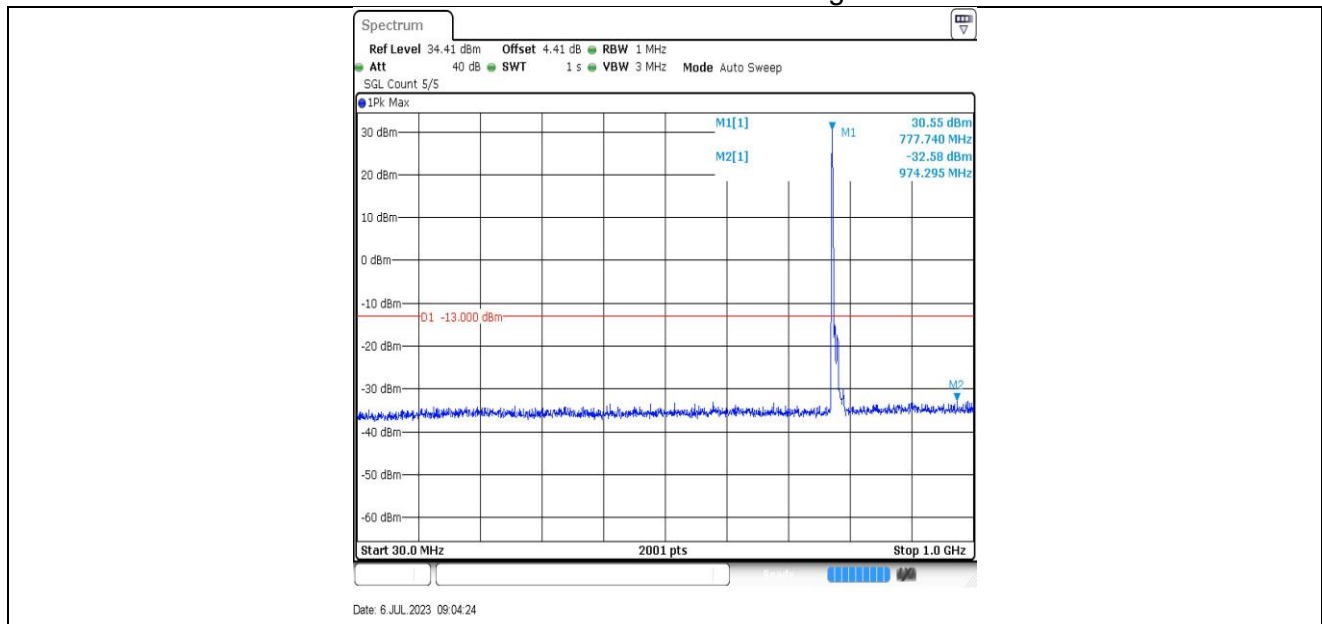
Test Graphs



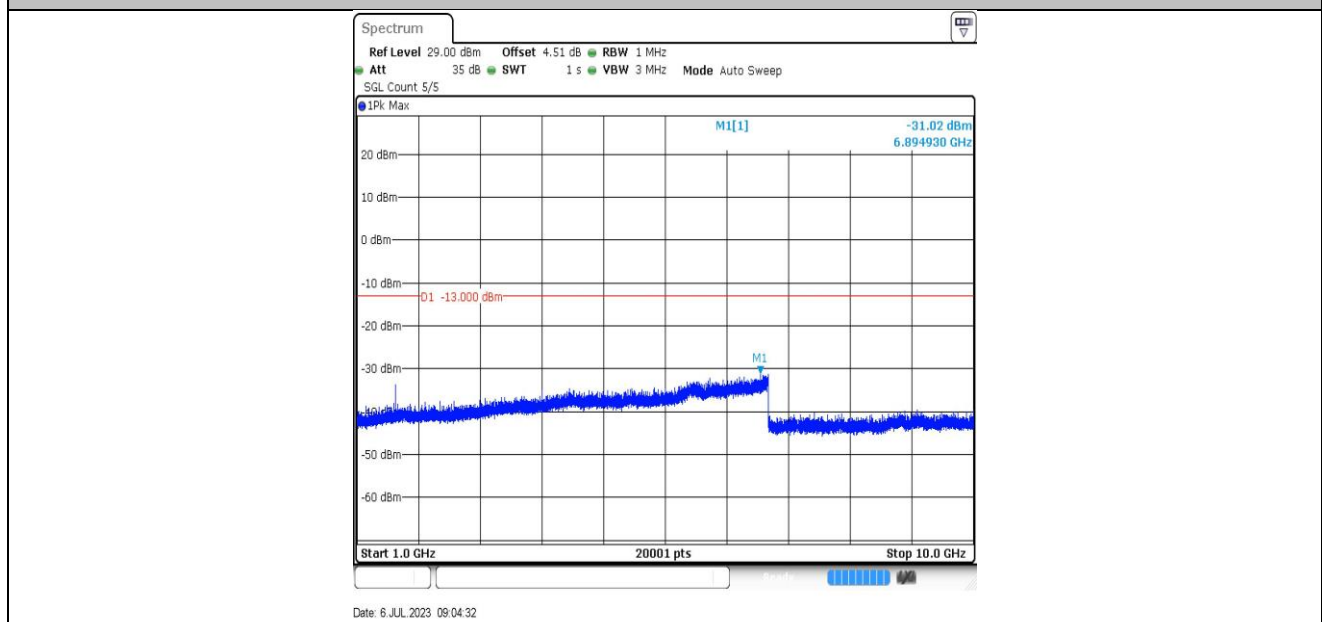
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



10MHz-23230



10MHz-23230





Field Strength of Spurious Radiation

Test Band = LTE Band13_10M_ TM1

Test Channel = Mid

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1555.1800 | 41.66 | -48.30 | 25.18 | -76.72 | -13.00 | 63.72 | Horizontal |
| 2 | 2332.7700 | 41.35 | -47.48 | 26.83 | -74.56 | -13.00 | 61.56 | Horizontal |
| 3 | 3110.3600 | 41.33 | -46.70 | 28.37 | -72.26 | -13.00 | 59.26 | Horizontal |
| 4 | 3887.9500 | 40.30 | -46.22 | 28.99 | -72.19 | -13.00 | 59.19 | Horizontal |
| 5 | 4665.5400 | 39.47 | -45.80 | 30.66 | -70.92 | -13.00 | 57.92 | Horizontal |
| 6 | 5441.3000 | 39.67 | -45.04 | 32.46 | -68.17 | -13.00 | 55.17 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1555.1800 | 43.45 | -48.30 | 25.18 | -74.93 | -13.00 | 61.93 | Vertical |
| 2 | 2332.7700 | 43.29 | -47.48 | 26.83 | -72.62 | -13.00 | 59.62 | Vertical |
| 3 | 3110.3600 | 42.13 | -46.70 | 28.37 | -71.46 | -13.00 | 58.46 | Vertical |
| 4 | 3887.9500 | 41.32 | -46.22 | 28.99 | -71.17 | -13.00 | 58.17 | Vertical |
| 5 | 4665.5400 | 40.39 | -45.80 | 30.66 | -70.00 | -13.00 | 57.00 | Vertical |
| 6 | 5441.3000 | 40.04 | -45.04 | 32.46 | -67.80 | -13.00 | 54.80 | Vertical |



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Test Band = LTE Band13_5M_TM1

Test Channel = Low

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1554.6800 | 41.91 | -48.30 | 25.18 | -76.47 | -13.00 | 63.47 | Horizontal |
| 2 | 2332.0200 | 41.98 | -47.48 | 26.83 | -73.93 | -13.00 | 60.93 | Horizontal |
| 3 | 3109.3600 | 41.20 | -46.71 | 28.37 | -72.40 | -13.00 | 59.40 | Horizontal |
| 4 | 3886.7000 | 40.37 | -46.22 | 28.99 | -72.12 | -13.00 | 59.12 | Horizontal |
| 5 | 4664.0400 | 39.42 | -45.80 | 30.66 | -70.97 | -13.00 | 57.97 | Horizontal |
| 6 | 5441.3800 | 39.64 | -45.04 | 32.46 | -68.20 | -13.00 | 55.20 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1554.6800 | 43.42 | -48.30 | 25.18 | -74.96 | -13.00 | 61.96 | Vertical |
| 2 | 2332.0200 | 43.11 | -47.48 | 26.83 | -72.80 | -13.00 | 59.80 | Vertical |
| 3 | 3109.3600 | 42.26 | -46.71 | 28.37 | -71.34 | -13.00 | 58.34 | Vertical |
| 4 | 3886.7000 | 41.07 | -46.22 | 28.99 | -71.42 | -13.00 | 58.42 | Vertical |
| 5 | 4664.0400 | 40.87 | -45.80 | 30.66 | -69.52 | -13.00 | 56.52 | Vertical |
| 6 | 5441.3800 | 40.28 | -45.04 | 32.46 | -67.56 | -13.00 | 54.56 | Vertical |



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Test Band = LTE Band13_5M_TM1

Test Channel = Mid

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1559.6800 | 41.63 | -48.30 | 25.18 | -76.75 | -40.00 | 36.75 | Horizontal |
| 2 | 2339.5200 | 41.59 | -47.48 | 26.85 | -74.30 | -13.00 | 61.30 | Horizontal |
| 3 | 3119.3600 | 41.03 | -46.66 | 28.37 | -72.52 | -13.00 | 59.52 | Horizontal |
| 4 | 3899.2000 | 40.22 | -46.23 | 29.00 | -72.27 | -13.00 | 59.27 | Horizontal |
| 5 | 4679.0400 | 39.31 | -45.80 | 30.69 | -71.05 | -13.00 | 58.05 | Horizontal |
| 6 | 5458.8800 | 39.82 | -45.07 | 32.50 | -68.01 | -13.00 | 55.01 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1559.6800 | 43.62 | -48.30 | 25.18 | -74.76 | -40.00 | 34.76 | Vertical |
| 2 | 2339.5200 | 42.83 | -47.48 | 26.85 | -73.06 | -13.00 | 60.06 | Vertical |
| 3 | 3119.3600 | 42.81 | -46.66 | 28.37 | -70.74 | -13.00 | 57.74 | Vertical |
| 4 | 3899.2000 | 40.89 | -46.23 | 29.00 | -71.60 | -13.00 | 58.60 | Vertical |
| 5 | 4679.0400 | 40.04 | -45.80 | 30.69 | -70.32 | -13.00 | 57.32 | Vertical |
| 6 | 5458.8800 | 40.41 | -45.07 | 32.50 | -67.42 | -13.00 | 54.42 | Vertical |



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Test Band = LTE Band13_5M_TM1

Test Channel = High

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1564.6800 | 40.95 | -48.29 | 25.18 | -77.42 | -40.00 | 37.42 | Horizontal |
| 2 | 2347.0200 | 41.69 | -47.48 | 26.87 | -74.17 | -13.00 | 61.17 | Horizontal |
| 3 | 3129.3600 | 41.37 | -46.61 | 28.38 | -72.13 | -13.00 | 59.13 | Horizontal |
| 4 | 3911.7000 | 40.39 | -46.23 | 29.01 | -72.08 | -13.00 | 59.08 | Horizontal |
| 5 | 4694.0400 | 39.72 | -45.80 | 30.73 | -70.61 | -13.00 | 57.61 | Horizontal |
| 6 | 5476.3800 | 39.26 | -45.10 | 32.54 | -68.56 | -13.00 | 55.56 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1564.6800 | 43.17 | -48.29 | 25.18 | -75.20 | -40.00 | 35.20 | Vertical |
| 2 | 2347.0200 | 42.82 | -47.48 | 26.87 | -73.04 | -13.00 | 60.04 | Vertical |
| 3 | 3129.3600 | 42.43 | -46.61 | 28.38 | -71.07 | -13.00 | 58.07 | Vertical |
| 4 | 3911.7000 | 41.26 | -46.23 | 29.01 | -71.21 | -13.00 | 58.21 | Vertical |
| 5 | 4694.0400 | 40.27 | -45.80 | 30.73 | -70.06 | -13.00 | 57.06 | Vertical |
| 6 | 5476.3800 | 40.35 | -45.10 | 32.54 | -67.47 | -13.00 | 54.47 | Vertical |



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Test Band = LTE 13A_48A_ TM1

Test Channel = Low

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 8084.125 | 37.83 | -41.47 | 36.76 | -62.14 | -40.00 | 22.14 | Horizontal |
| 2 | 9130.05 | 35.17 | -40.27 | 36.55 | -63.81 | -40.00 | 23.81 | Horizontal |
| 3 | 9996 | 32.02 | -39.37 | 38.19 | -64.42 | -40.00 | 24.42 | Horizontal |
| 4 | 10943.6 | 29.29 | -37.71 | 38.67 | -65.01 | -40.00 | 25.01 | Horizontal |
| 5 | 12110.275 | 27.41 | -37.18 | 38.83 | -66.20 | -40.00 | 26.20 | Horizontal |
| 6 | 13321.225 | 26.85 | -36.82 | 39.68 | -65.55 | -40.00 | 25.55 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 7625.275 | 39.29 | -42.79 | 36.65 | -62.11 | -40.00 | 22.11 | Vertical |
| 2 | 9063.35 | 35.42 | -40.58 | 36.42 | -64.00 | -40.00 | 24.00 | Vertical |
| 3 | 10072.475 | 32.23 | -38.89 | 38.24 | -63.68 | -40.00 | 23.68 | Vertical |
| 4 | 10697.5 | 30.02 | -37.50 | 38.55 | -64.19 | -40.00 | 24.19 | Vertical |
| 5 | 12783.025 | 27.43 | -36.66 | 39.03 | -65.45 | -40.00 | 25.45 | Vertical |
| 6 | 14619.575 | 26.37 | -35.23 | 41.15 | -62.98 | -40.00 | 22.98 | Vertical |



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Test Band = LTE 13A_48A_ TM1

Test Channel = Mid

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 7627 | 39.59 | -42.80 | 36.65 | -61.82 | -40.00 | 21.82 | Horizontal |
| 2 | 8950.65 | 36.26 | -40.89 | 36.32 | -63.57 | -40.00 | 23.57 | Horizontal |
| 3 | 9603.275 | 34.48 | -39.21 | 37.45 | -62.54 | -40.00 | 22.54 | Horizontal |
| 4 | 10830.325 | 30.01 | -38.27 | 38.62 | -64.90 | -40.00 | 24.90 | Horizontal |
| 5 | 11808.975 | 26.97 | -37.21 | 38.78 | -66.72 | -40.00 | 26.72 | Horizontal |
| 6 | 13968.675 | 26.17 | -35.03 | 40.84 | -63.27 | -40.00 | 23.27 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 7646.55 | 39.29 | -42.84 | 36.66 | -62.15 | -40.00 | 22.15 | Vertical |
| 2 | 8895.45 | 36.06 | -40.92 | 36.35 | -63.77 | -40.00 | 23.77 | Vertical |
| 3 | 9609.6 | 34.66 | -39.23 | 37.46 | -62.37 | -40.00 | 22.37 | Vertical |
| 4 | 10704.975 | 30.07 | -37.54 | 38.55 | -64.18 | -40.00 | 24.18 | Vertical |
| 5 | 12202.275 | 27.90 | -37.10 | 38.86 | -65.60 | -40.00 | 25.60 | Vertical |
| 6 | 14498.825 | 25.29 | -34.24 | 41.10 | -63.11 | -40.00 | 23.11 | Vertical |



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Test Band = LTE 13A_48A_ TM1

Test Channel = High

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 8404.975 | 38.38 | -41.39 | 36.60 | -61.67 | -40.00 | 21.67 | Horizontal |
| 2 | 10663 | 30.19 | -37.68 | 38.53 | -64.22 | -40.00 | 24.22 | Horizontal |
| 3 | 10773.975 | 30.29 | -38.21 | 38.59 | -64.60 | -40.00 | 24.60 | Horizontal |
| 4 | 12775.55 | 27.75 | -36.67 | 39.03 | -65.15 | -40.00 | 25.15 | Horizontal |
| 5 | 13970.4 | 26.15 | -35.01 | 40.85 | -63.28 | -40.00 | 23.28 | Horizontal |
| 6 | 14502.85 | 25.38 | -34.26 | 41.10 | -63.04 | -40.00 | 23.04 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 7788 | 38.86 | -42.62 | 36.72 | -62.31 | -40.00 | 22.31 | Vertical |
| 2 | 9602.7 | 34.46 | -39.21 | 37.45 | -62.56 | -40.00 | 22.56 | Vertical |
| 3 | 10077.65 | 32.67 | -38.85 | 38.24 | -63.20 | -40.00 | 23.20 | Vertical |
| 4 | 11230.525 | 29.25 | -36.79 | 38.72 | -64.08 | -40.00 | 24.08 | Vertical |
| 5 | 13377 | 26.09 | -36.29 | 39.78 | -65.68 | -40.00 | 25.68 | Vertical |
| 6 | 14493.075 | 25.43 | -34.29 | 41.10 | -63.02 | -40.00 | 23.02 | Vertical |



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Test Band = LTE 13A_66A_ TM1

Test Channel = Low

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1554.6800 | 42.59 | -48.30 | 25.18 | -75.79 | -13.00 | 62.79 | Horizontal |
| 2 | 2332.0200 | 41.98 | -47.48 | 26.83 | -73.93 | -13.00 | 60.93 | Horizontal |
| 3 | 3109.3600 | 40.81 | -46.71 | 28.37 | -72.79 | -13.00 | 59.79 | Horizontal |
| 4 | 3404.1800 | 40.15 | -46.54 | 28.54 | -73.11 | -13.00 | 60.11 | Horizontal |
| 5 | 5106.2700 | 38.64 | -45.36 | 31.66 | -70.32 | -13.00 | 57.32 | Horizontal |
| 6 | 6808.3600 | 38.85 | -44.12 | 34.86 | -65.68 | -13.00 | 52.68 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1554.6800 | 44.16 | -48.30 | 25.18 | -74.22 | -13.00 | 61.22 | Vertical |
| 2 | 2332.0200 | 43.31 | -47.48 | 26.83 | -72.60 | -13.00 | 59.60 | Vertical |
| 3 | 3109.3600 | 41.90 | -46.71 | 28.37 | -71.70 | -13.00 | 58.70 | Vertical |
| 4 | 3404.1800 | 41.03 | -46.54 | 28.54 | -72.23 | -13.00 | 59.23 | Vertical |
| 5 | 5106.2700 | 39.31 | -45.36 | 31.66 | -69.65 | -13.00 | 56.65 | Vertical |
| 6 | 6808.3600 | 38.78 | -44.12 | 34.86 | -65.75 | -13.00 | 52.75 | Vertical |



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Test Band = LTE 13A_66A_ TM1

Test Channel = Mid

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1559.6800 | 41.12 | -48.30 | 25.18 | -77.26 | -40.00 | 37.26 | Horizontal |
| 2 | 2339.5200 | 41.51 | -47.48 | 26.85 | -74.38 | -13.00 | 61.38 | Horizontal |
| 3 | 3119.3600 | 40.94 | -46.66 | 28.37 | -72.61 | -13.00 | 59.61 | Horizontal |
| 4 | 3454.1800 | 41.42 | -46.54 | 28.57 | -71.81 | -13.00 | 58.81 | Horizontal |
| 5 | 5181.2700 | 39.13 | -45.06 | 31.84 | -69.36 | -13.00 | 56.36 | Horizontal |
| 6 | 6908.3600 | 37.98 | -44.12 | 35.04 | -66.36 | -13.00 | 53.36 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1559.6800 | 43.48 | -48.30 | 25.18 | -74.90 | -40.00 | 34.90 | Vertical |
| 2 | 2339.5200 | 42.54 | -47.48 | 26.85 | -73.35 | -13.00 | 60.35 | Vertical |
| 3 | 3119.3600 | 42.53 | -46.66 | 28.37 | -71.02 | -13.00 | 58.02 | Vertical |
| 4 | 3454.1800 | 42.52 | -46.54 | 28.57 | -70.71 | -13.00 | 57.71 | Vertical |
| 5 | 5181.2700 | 38.90 | -45.06 | 31.84 | -69.59 | -13.00 | 56.59 | Vertical |
| 6 | 6908.3600 | 38.50 | -44.12 | 35.04 | -65.84 | -13.00 | 52.84 | Vertical |



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

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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Test Band = LTE 13A_66A_ TM1

Test Channel = High

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1564.6800 | 41.02 | -48.29 | 25.18 | -77.35 | -40.00 | 37.35 | Horizontal |
| 2 | 2347.0200 | 41.52 | -47.48 | 26.87 | -74.34 | -13.00 | 61.34 | Horizontal |
| 3 | 3129.3600 | 41.37 | -46.61 | 28.38 | -72.13 | -13.00 | 59.13 | Horizontal |
| 4 | 3504.1800 | 41.82 | -46.53 | 28.60 | -71.37 | -13.00 | 58.37 | Horizontal |
| 5 | 5256.2700 | 39.29 | -45.16 | 32.02 | -69.11 | -13.00 | 56.11 | Horizontal |
| 6 | 7008.3600 | 37.73 | -43.63 | 35.22 | -65.93 | -13.00 | 52.93 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1564.6800 | 43.09 | -48.29 | 25.18 | -75.28 | -40.00 | 35.28 | Vertical |
| 2 | 2347.0200 | 42.85 | -47.48 | 26.87 | -73.01 | -13.00 | 60.01 | Vertical |
| 3 | 3129.3600 | 42.77 | -46.61 | 28.38 | -70.73 | -13.00 | 57.73 | Vertical |
| 4 | 3504.1800 | 42.09 | -46.53 | 28.60 | -71.10 | -13.00 | 58.10 | Vertical |
| 5 | 5256.2700 | 39.80 | -45.16 | 32.02 | -68.60 | -13.00 | 55.60 | Vertical |
| 6 | 7008.3600 | 38.28 | -43.63 | 35.22 | -65.38 | -13.00 | 52.38 | Vertical |

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com

Frequency Stability

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | VN | NT | -4.20 | -0.005371 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | VL | NT | -1.20 | -0.001535 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | VH | NT | 0.10 | 0.000128 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | -30 | 0.10 | 0.000128 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | -20 | -5.90 | -0.007545 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | -10 | -3.50 | -0.004476 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 0 | 0.70 | 0.000895 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 10 | 1.20 | 0.001535 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 20 | 0.40 | 0.000512 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 30 | 2.00 | 0.002558 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 40 | -3.50 | -0.004476 | PASS |
| Band13 | 10MHz | QPSK | 23230 | 50RB#0 | NV | 50 | -0.30 | -0.000384 | PASS |

---End of Attachment---



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

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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com