

# Appendix B

## E-UTRA Band 4

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

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/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 herein reflects the Company's jurisdiction 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 fulfilling all their obligations under the transaction documents. This document cannot be reproduced or transmitted 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,

en, China 518057 t (86-755) 26012053 f (86-755) 26710594  
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594  
[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
[sgs-china@sgs.com](mailto:sgs-china@sgs.com)

**CONTENT**

|   |           |
|---|-----------|
| <b>1. EFFECTIVE (ISOTROPIC) RADIATED POWER.....</b>   | <b>3</b>  |
| 1.1. TEST RESULT .....                                | 3         |
| <b>2. PEAK-TO-AVERAGE RATIO (CCDF).....</b>           | <b>11</b> |
| 2.1. TEST RESULT .....                                | 11        |
| 2.2. TEST PLOTS.....                                  | 11        |
| <b>3. MODULATION CHARACTERISTICS .....</b>            | <b>15</b> |
| 3.1. TEST MODE = LTE /TM1 20MHz.....                  | 15        |
| 3.1.1. TEST CHANNEL = MCH.....                        | 15        |
| 3.2. TEST MODE = LTE /TM2 20MHz.....                  | 16        |
| 3.2.1. TEST CHANNEL = MCH.....                        | 16        |
| 3.3. TEST MODE = LTE /TM3 20MHz.....                  | 17        |
| 3.3.1. TEST CHANNEL = MCH.....                        | 17        |
| <b>4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH .....</b> | <b>18</b> |
| 4.1. TEST RESULT .....                                | 18        |
| 4.2. TEST PLOTS.....                                  | 19        |
| <b>5. BAND EDGE COMPLIANCE .....</b>                  | <b>38</b> |
| 5.1. TEST RESULT .....                                | 38        |
| 5.2. TEST PLOTS.....                                  | 39        |
| <b>6. SPURIOUS EMISSION AT ANTENNA TERMINAL .....</b> | <b>64</b> |
| 6.1. TEST PLOTS.....                                  | 64        |
| <b>7. FIELD STRENGTH OF SPURIOUS RADIATION.....</b>   | <b>71</b> |
| 7.1. TEST MODE =LTE/TM1 20MHz .....                   | 71        |
| 7.1.1. TEST CHANNEL = LCH .....                       | 71        |
| 7.1.2. TEST CHANNEL = MCH .....                       | 71        |
| 7.1.3. TEST CHANNEL = HCH .....                       | 72        |
| <b>8. FREQUENCY STABILITY.....</b>                    | <b>73</b> |
| 8.1. FREQUENCY VS VOLTAGE .....                       | 73        |
| 8.2. FREQUENCY VS TEMPERATURE .....                   | 73        |



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](mailto:CN_Doccheck@sgs.com)

# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | EIRP (dBm) | limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|----------------------|------------|-------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#2            | 23.70                | 24.6       | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#5            | 23.91                | 24.81      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#0            | 23.87                | 24.77      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 3RB#3            | 23.67                | 24.57      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 3RB#0            | 23.48                | 24.38      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 3RB#1            | 23.65                | 24.55      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 22.73                | 23.63      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#5            | 23.81                | 24.71      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#2            | 23.91                | 24.81      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#0            | 23.84                | 24.74      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 3RB#1            | 23.72                | 24.62      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 3RB#3            | 23.66                | 24.56      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 3RB#0            | 23.63                | 24.53      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 22.75                | 23.65      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#5            | 23.84                | 24.74      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#2            | 23.91                | 24.81      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#0            | <b>23.97</b>         | 24.87      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 3RB#1            | 23.87                | 24.77      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 3RB#3            | 23.81                | 24.71      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 3RB#0            | 23.76                | 24.66      | 30          | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 22.82                | 23.72      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#5            | 22.29                | 23.19      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#2            | 22.85                | 23.75      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#0            | 22.84                | 23.74      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 3RB#0            | 22.78                | 23.68      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 3RB#1            | 22.85                | 23.75      | 30          | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 3RB#3            | 22.63                | 23.53      | 30          | 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-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](mailto:CN.Doccheck@sgs.com)



No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



|       |        |       |       |        |              |       |    |      |
|-------|--------|-------|-------|--------|--------------|-------|----|------|
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0  | 21.67        | 22.57 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#5  | 22.09        | 22.99 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#0  | 22.27        | 23.17 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#2  | 22.85        | 23.75 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 3RB#0  | 22.94        | 23.84 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 3RB#1  | 22.83        | 23.73 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 3RB#3  | 22.94        | 23.84 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0  | 21.64        | 22.54 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#0  | 22.27        | 23.17 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#5  | 22.23        | 23.13 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#2  | 22.10        | 23    | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#0  | 22.95        | 23.85 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#1  | 22.97        | 23.87 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#3  | 22.72        | 23.62 | 30 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | 21.92        | 22.82 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#8  | 24.02        | 24.92 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#0  | <b>24.25</b> | 25.15 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#14 | 23.93        | 24.83 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 8RB#7  | 22.96        | 23.86 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 8RB#0  | 22.94        | 23.84 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 8RB#4  | 22.85        | 23.75 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | 22.88        | 23.78 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#8  | 24.05        | 24.95 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#14 | 23.82        | 24.72 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#0  | 23.98        | 24.88 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 8RB#4  | 22.86        | 23.76 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 8RB#7  | 22.90        | 23.8  | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 8RB#0  | 22.88        | 23.78 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | 22.96        | 23.86 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#8  | 23.76        | 24.66 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#0  | 24.14        | 25.04 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#14 | 24.03        | 24.93 | 30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 8RB#7  | 22.98        | 23.88 | 30 | 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-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](mailto:CN.Doccheck@sgs.com)



No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
邮编: 518057 | (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



|       |      |       |       |         |       |       |    |      |
|-------|------|-------|-------|---------|-------|-------|----|------|
| Band4 | 3MHz | QPSK  | 20385 | 8RB#4   | 22.96 | 23.86 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 8RB#0   | 22.89 | 23.79 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 15RB#0  | 22.93 | 23.83 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#0   | 22.91 | 23.81 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#8   | 22.80 | 23.7  | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#14  | 22.93 | 23.83 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 8RB#7   | 22.00 | 22.9  | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 8RB#0   | 22.02 | 22.92 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 8RB#4   | 22.00 | 22.9  | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0  | 21.92 | 22.82 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#14  | 23.01 | 23.91 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#8   | 23.13 | 24.03 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#0   | 23.05 | 23.95 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#4   | 22.04 | 22.94 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#0   | 22.01 | 22.91 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#7   | 21.96 | 22.86 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0  | 22.01 | 22.91 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#0   | 22.70 | 23.6  | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#8   | 22.73 | 23.63 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#14  | 22.94 | 23.84 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#0   | 22.08 | 22.98 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#4   | 22.10 | 23    | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#7   | 22.07 | 22.97 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0  | 21.84 | 22.74 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#12  | 23.80 | 24.7  | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#0   | 23.96 | 24.86 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#24  | 23.75 | 24.65 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 12RB#13 | 22.91 | 23.81 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 12RB#6  | 22.94 | 23.84 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 12RB#0  | 22.87 | 23.77 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0  | 22.87 | 23.77 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#0   | 23.69 | 24.59 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#24  | 23.80 | 24.7  | 30 | 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-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](mailto:CN.Doccheck@sgs.com)



No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Inspection & Testing Services Laboratory | 邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



|       |      |       |       |         |              |       |    |      |
|-------|------|-------|-------|---------|--------------|-------|----|------|
| Band4 | 5MHz | QPSK  | 20175 | 1RB#12  | 23.81        | 24.71 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 12RB#0  | 22.92        | 23.82 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 12RB#13 | 23.09        | 23.99 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 12RB#6  | 22.95        | 23.85 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0  | 22.92        | 23.82 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#24  | 24.02        | 24.92 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#0   | <b>24.20</b> | 25.1  | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#12  | 24.10        | 25    | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 12RB#0  | 23.09        | 23.99 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 12RB#6  | 23.08        | 23.98 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 12RB#13 | 23.05        | 23.95 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0  | 23.10        | 24    | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#24  | 22.35        | 23.25 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#12  | 22.56        | 23.46 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#0   | 22.65        | 23.55 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#0  | 21.82        | 22.72 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#6  | 21.87        | 22.77 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#13 | 21.80        | 22.7  | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0  | 21.81        | 22.71 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#24  | 22.37        | 23.27 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#12  | 22.40        | 23.3  | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#0   | 22.14        | 23.04 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#6  | 21.87        | 22.77 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#0  | 21.85        | 22.75 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#13 | 21.82        | 22.72 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0  | 21.99        | 22.89 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#24  | 23.21        | 24.11 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#0   | 22.95        | 23.85 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#12  | 22.65        | 23.55 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 12RB#0  | 22.13        | 23.03 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 12RB#6  | 22.21        | 23.11 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 12RB#13 | 22.00        | 22.9  | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0  | 22.14        | 23.04 | 30 | 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-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](mailto:CN.Doccheck@sgs.com)



No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
邮编: 518057 | (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



|       |       |       |       |         |       |       |    |      |
|-------|-------|-------|-------|---------|-------|-------|----|------|
| Band4 | 10MHz | QPSK  | 20000 | 1RB#0   | 24.07 | 24.97 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#24  | 23.98 | 24.88 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#49  | 23.78 | 24.68 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 25RB#0  | 23.05 | 23.95 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 25RB#12 | 23.09 | 23.99 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 25RB#25 | 22.90 | 23.8  | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0  | 22.99 | 23.89 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#0   | 23.75 | 24.65 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#24  | 24.15 | 25.05 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#49  | 23.93 | 24.83 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 25RB#12 | 23.02 | 23.92 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 25RB#25 | 23.02 | 23.92 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 25RB#0  | 23.07 | 23.97 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0  | 23.05 | 23.95 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#0   | 24.12 | 25.02 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#24  | 24.14 | 25.04 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#49  | 24.37 | 25.27 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 25RB#0  | 23.31 | 24.21 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 25RB#12 | 23.30 | 24.2  | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 25RB#25 | 23.12 | 24.02 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0  | 23.26 | 24.16 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49  | 23.49 | 24.39 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0   | 23.46 | 24.36 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24  | 22.87 | 23.77 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#25 | 21.98 | 22.88 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#0  | 22.03 | 22.93 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#12 | 21.84 | 22.74 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0  | 22.19 | 23.09 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0   | 22.78 | 23.68 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#24  | 23.12 | 24.02 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49  | 23.02 | 23.92 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#0  | 22.09 | 22.99 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#12 | 22.09 | 22.99 | 30 | 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-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](mailto:CN.Doccheck@sgs.com)



No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
邮编: 518057 | (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



|       |       |       |       |         |              |       |    |      |
|-------|-------|-------|-------|---------|--------------|-------|----|------|
| Band4 | 10MHz | 16QAM | 20175 | 25RB#25 | 21.96        | 22.86 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0  | 22.06        | 22.96 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24  | 23.87        | 24.77 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49  | 23.88        | 24.78 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0   | 22.86        | 23.76 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#0  | 22.27        | 23.17 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#12 | 22.47        | 23.37 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#25 | 22.27        | 23.17 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0  | 22.35        | 23.25 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#0   | 23.91        | 24.81 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#38  | 23.99        | 24.89 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#74  | 23.98        | 24.88 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 36RB#39 | 23.11        | 24.01 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 36RB#18 | 23.26        | 24.16 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 36RB#0  | 23.12        | 24.02 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0  | 23.07        | 23.97 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#74  | 23.84        | 24.74 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#0   | 23.97        | 24.87 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#38  | 23.96        | 24.86 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 36RB#0  | 23.14        | 24.04 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 36RB#39 | 23.20        | 24.1  | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 36RB#18 | 23.10        | 24    | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0  | 23.06        | 23.96 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#38  | 24.26        | 25.16 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#0   | 24.14        | 25.04 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#74  | <b>24.29</b> | 25.19 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 36RB#39 | 23.46        | 24.36 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 36RB#0  | 23.46        | 24.36 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 36RB#18 | 23.31        | 24.21 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0  | 23.33        | 24.23 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0   | 23.28        | 24.18 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38  | 23.62        | 24.52 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74  | 22.66        | 23.56 | 30 | 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-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](mailto:CN.Doccheck@sgs.com)



No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



|       |       |       |       |         |       |       |    |      |
|-------|-------|-------|-------|---------|-------|-------|----|------|
| Band4 | 15MHz | 16QAM | 20025 | 36RB#0  | 22.18 | 23.08 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 36RB#18 | 22.11 | 23.01 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 36RB#39 | 22.19 | 23.09 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0  | 22.03 | 22.93 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38  | 22.79 | 23.69 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74  | 23.06 | 23.96 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0   | 22.86 | 23.76 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 36RB#0  | 22.06 | 22.96 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 36RB#18 | 22.06 | 22.96 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 36RB#39 | 22.10 | 23    | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0  | 22.12 | 23.02 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0   | 23.29 | 24.19 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38  | 23.83 | 24.73 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74  | 23.40 | 24.3  | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 36RB#39 | 22.24 | 23.14 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 36RB#0  | 22.43 | 23.33 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 36RB#18 | 22.21 | 23.11 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0  | 22.41 | 23.31 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#49  | 24.22 | 25.12 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#99  | 24.11 | 25.01 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#0   | 24.20 | 25.1  | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 50RB#0  | 23.16 | 24.06 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 50RB#25 | 23.13 | 24.03 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 50RB#50 | 23.16 | 24.06 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 23.22 | 24.12 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#99  | 23.97 | 24.87 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#49  | 24.21 | 25.11 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#0   | 24.04 | 24.94 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 50RB#25 | 23.18 | 24.08 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 50RB#0  | 23.22 | 24.12 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 50RB#50 | 23.21 | 24.11 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 23.03 | 23.93 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#49  | 24.08 | 24.98 | 30 | 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-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](mailto:CN.Doccheck@sgs.com)



No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



|       |       |       |       |         |              |       |    |      |
|-------|-------|-------|-------|---------|--------------|-------|----|------|
| Band4 | 20MHz | QPSK  | 20300 | 1RB#0   | <b>24.27</b> | 25.17 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#99  | 24.26        | 25.16 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 50RB#25 | 23.37        | 24.27 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 50RB#50 | 23.34        | 24.24 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 50RB#0  | 23.26        | 24.16 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 23.39        | 24.29 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99  | 22.80        | 23.7  | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0   | 23.72        | 24.62 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49  | 23.46        | 24.36 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#0  | 22.26        | 23.16 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#25 | 22.14        | 23.04 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#50 | 22.06        | 22.96 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 22.15        | 23.05 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99  | 23.10        | 24    | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49  | 23.78        | 24.68 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0   | 22.74        | 23.64 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#25 | 22.05        | 22.95 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#0  | 22.28        | 23.18 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#50 | 22.19        | 23.09 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 22.10        | 23    | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99  | 22.94        | 23.84 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49  | 23.94        | 24.84 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0   | 23.11        | 24.01 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#50 | 22.34        | 23.24 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#25 | 22.32        | 23.22 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#0  | 22.25        | 23.15 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 22.29        | 23.19 | 30 | PASS |

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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](mailto:CN.Doccheck@sgs.com)



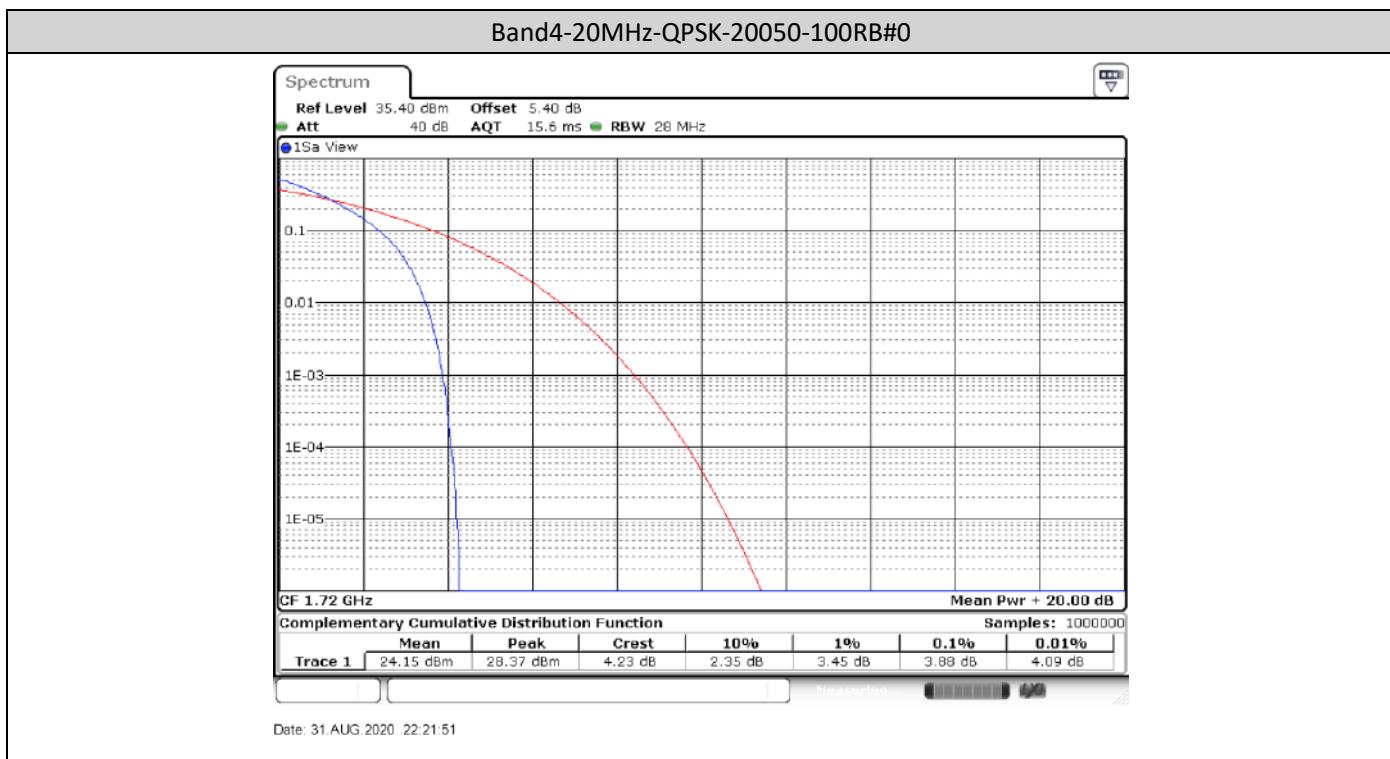
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
邮编: 518057 | (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | 3.88       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | 3.77       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | 3.77       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0          | 4.78       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0          | 4.67       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0          | 4.67       | 13        | PASS    |

### 2.2. Test Plots



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.

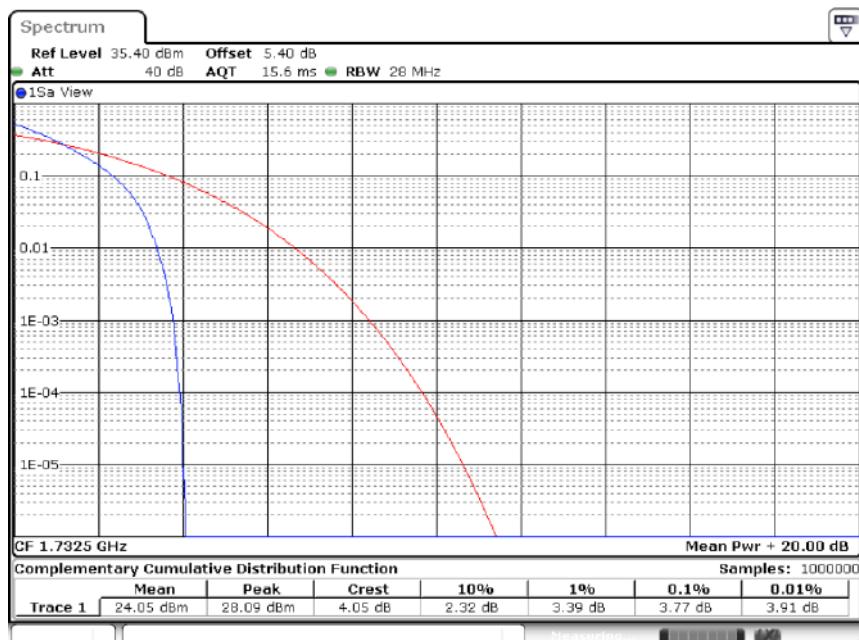
**Attention:** To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

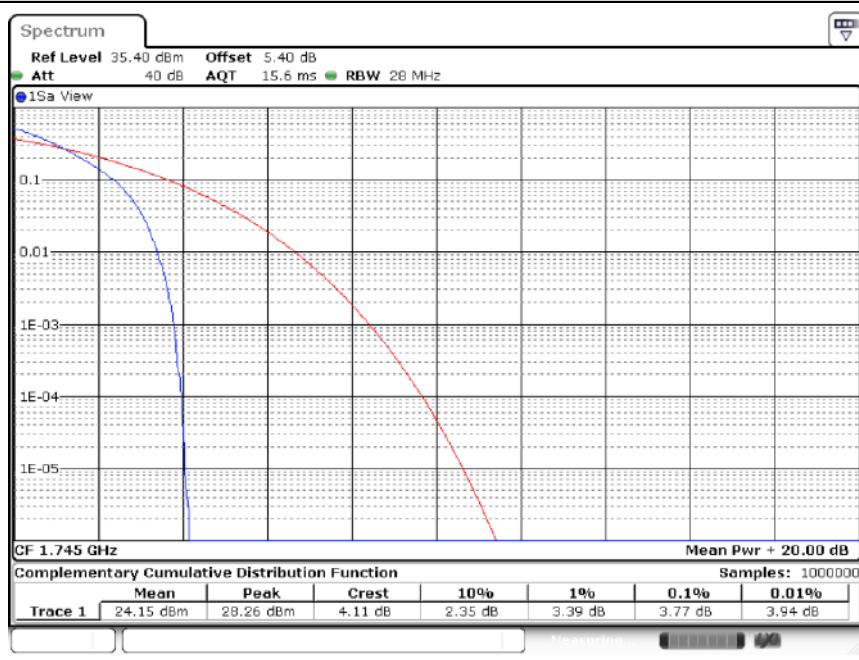
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-20MHz-QPSK-20175-100RB#0



Date: 31 AUG 2020 22:22:13

## Band4-20MHz-QPSK-20300-100RB#0



Date: 31 AUG 2020 22:22:36

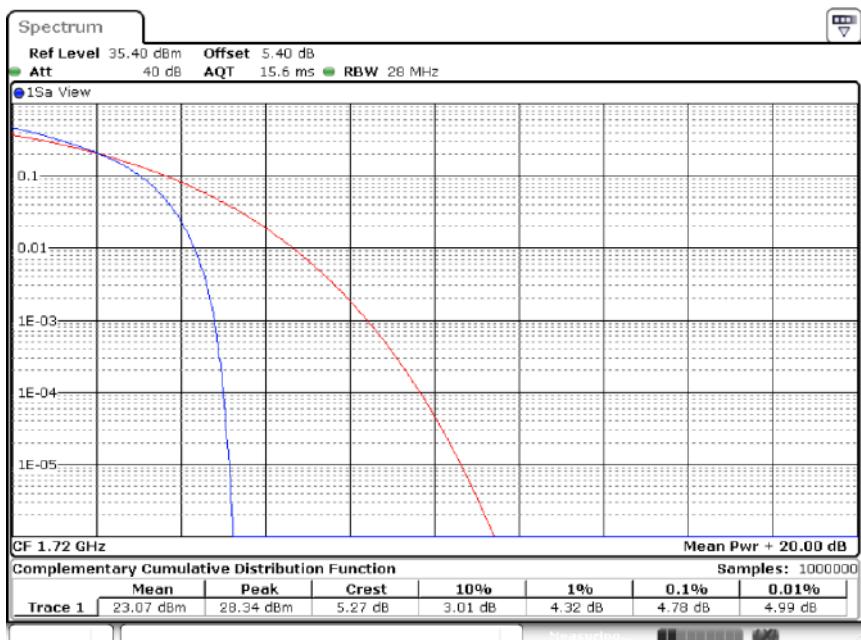
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



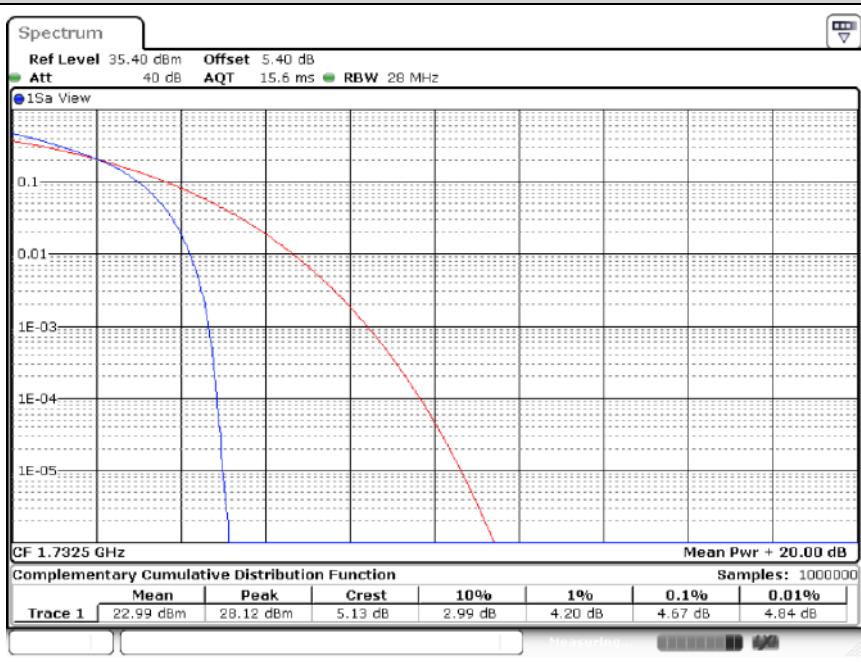
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-20MHz-16QAM-20050-100RB#0



Date: 31 AUG 2020 22:22:02

## Band4-20MHz-16QAM-20175-100RB#0



Date: 31 AUG 2020 22:22:24

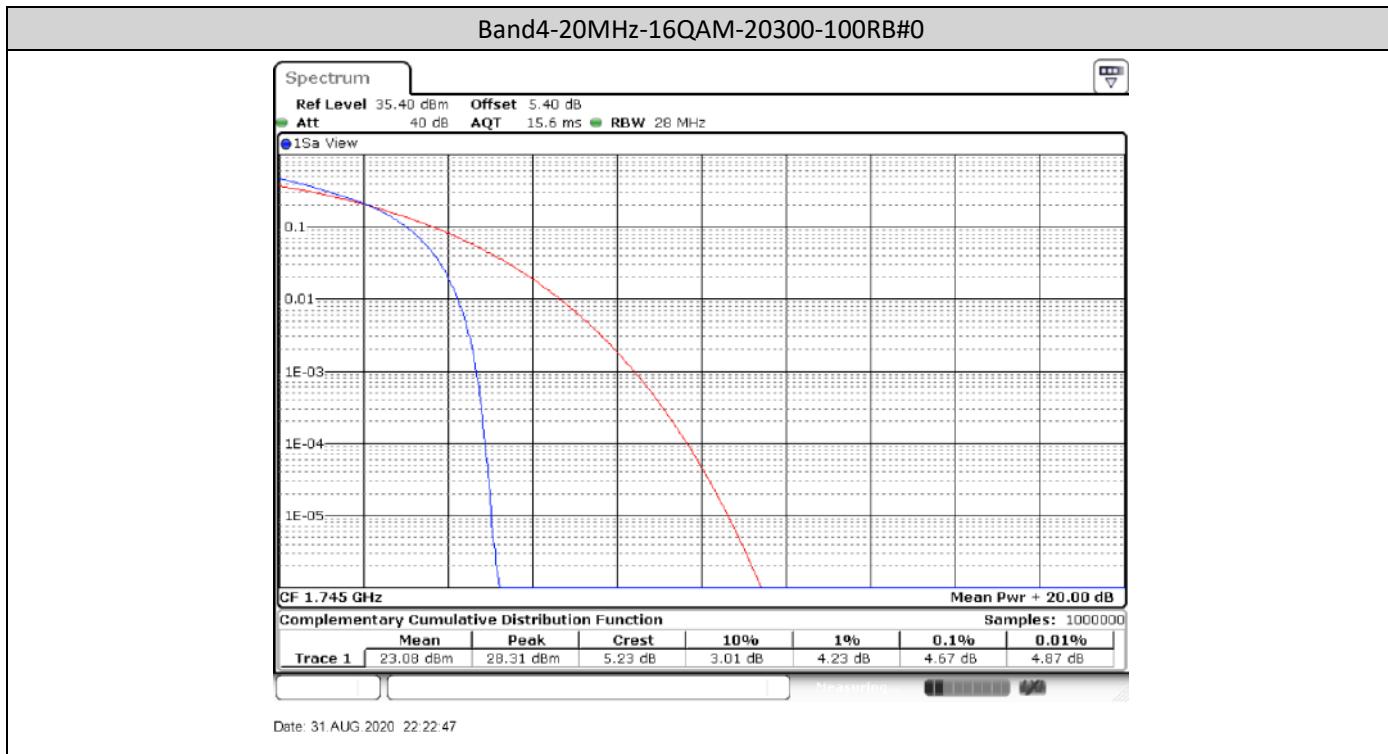
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch, No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房

邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
[sgs.china@sgs.com](mailto: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 <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](mailto:CN.Doccheck@sgs.com)



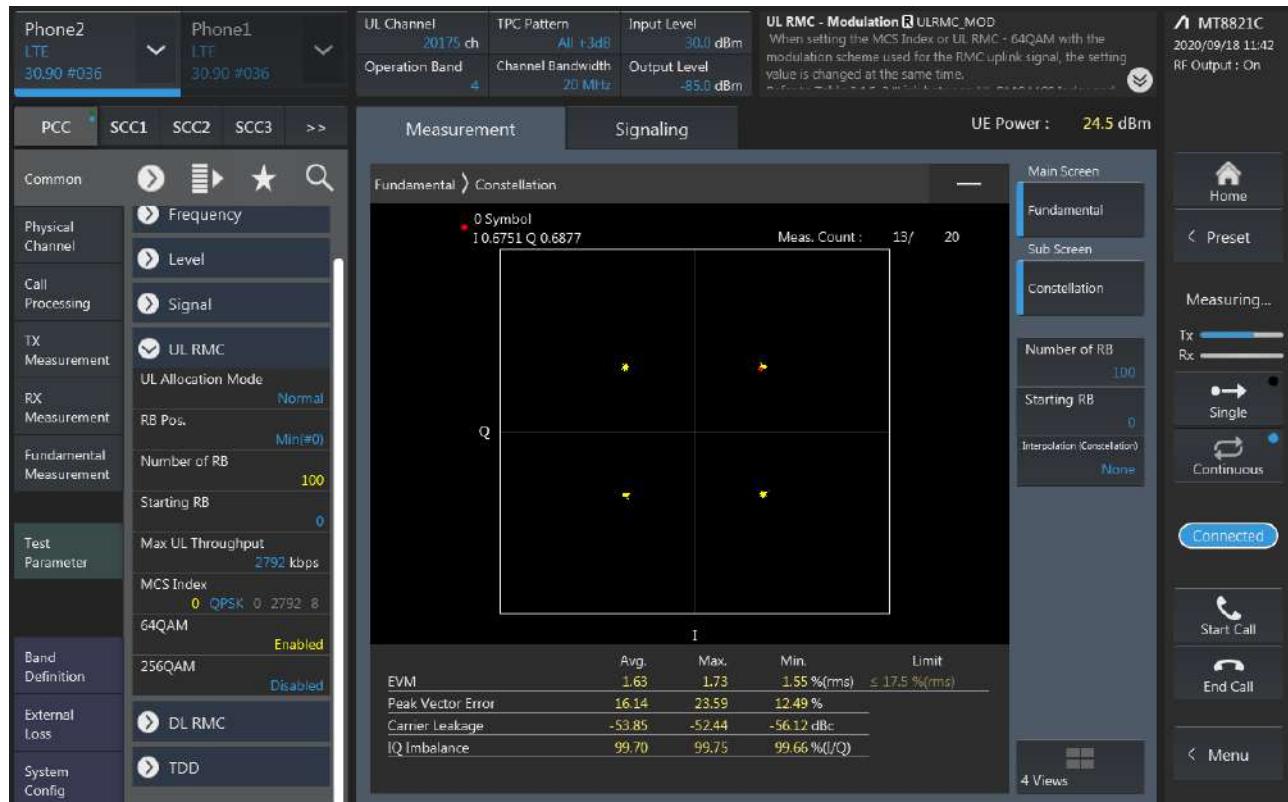
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 20MHz

##### 3.1.1. Test Channel = MCH



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](mailto:CN.Doccheck@sgs.com)

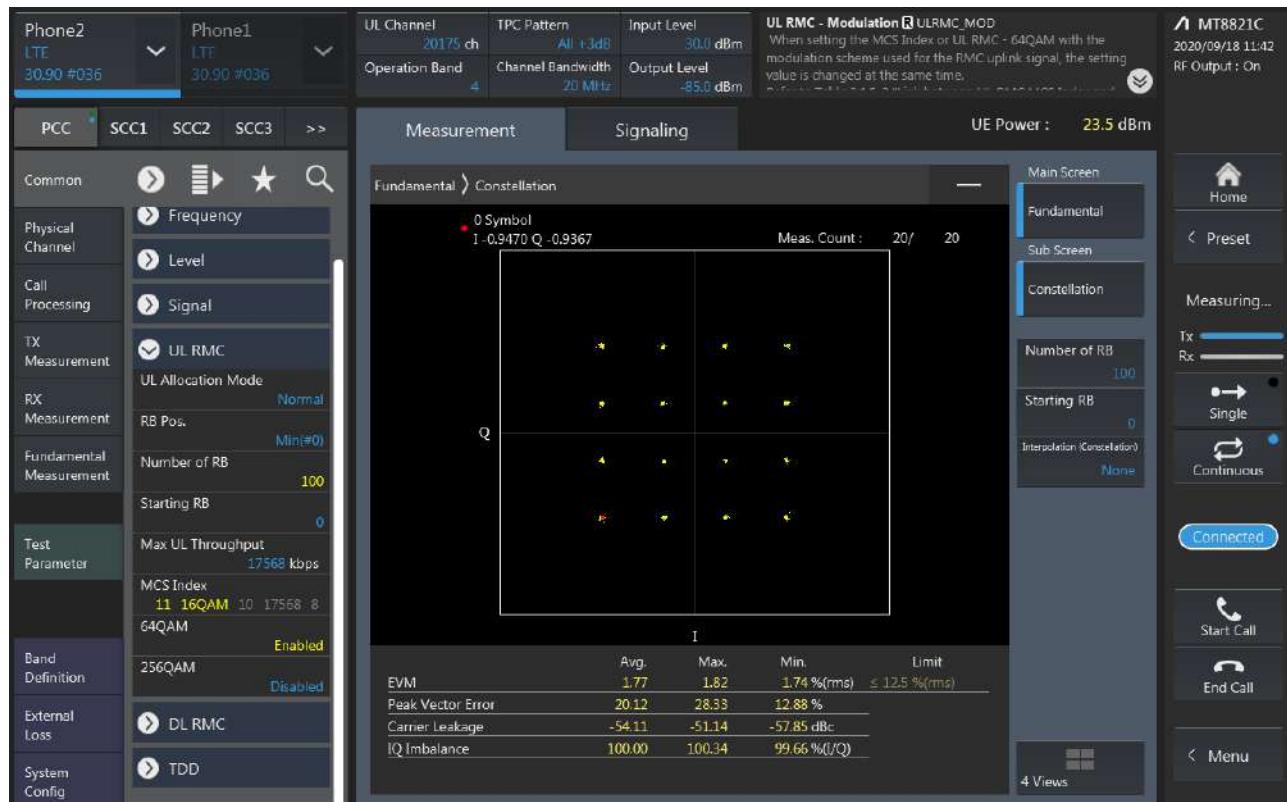


SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## 3.2. Test Mode = LTE /TM2 20MHz

### 3.2.1. Test Channel = MCH



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](mailto:CN.Doccheck@sgs.com)

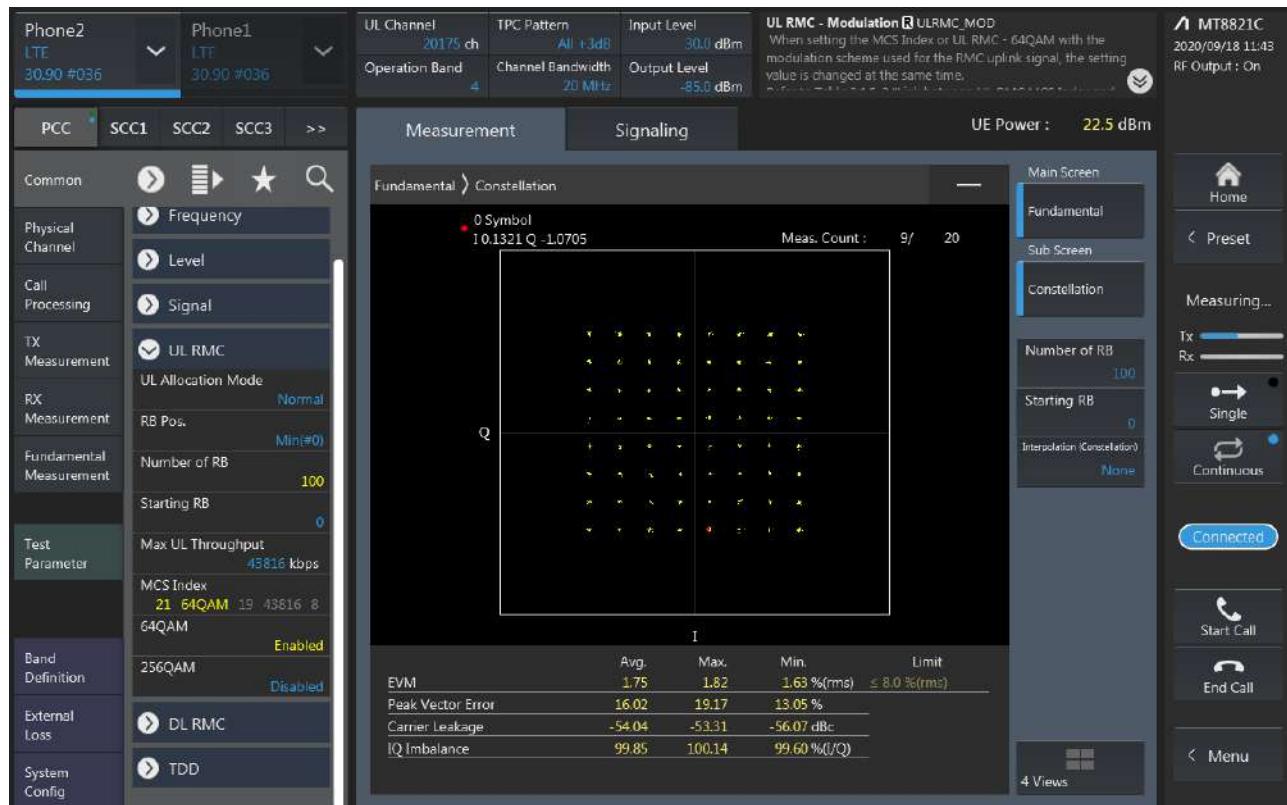


SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | t (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

### 3.3. Test Mode = LTE /TM3 20MHz

#### 3.3.1. Test Channel = MCH



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](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | t (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 1.094                    | 1.314                | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 1.085                    | 1.281                | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 1.094                    | 1.305                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 1.091                    | 1.323                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 1.097                    | 1.311                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 1.091                    | 1.317                | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 2.703                    | 2.994                | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 2.703                    | 3.018                | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 2.703                    | 2.988                | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 2.685                    | 2.970                | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 2.685                    | 2.988                | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 2.685                    | 2.982                | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 4.476                    | 4.980                | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 4.476                    | 5.010                | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | 4.476                    | 4.950                | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 4.496                    | 5.000                | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 4.496                    | 4.990                | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | 4.496                    | 4.980                | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | 8.911                    | 9.820                | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | 8.911                    | 9.840                | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | 8.911                    | 9.800                | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 50RB#0           | 8.911                    | 9.800                | PASS    |
| Band4 | 10MHz     | 16QAM      | 20175   | 50RB#0           | 8.931                    | 9.780                | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 50RB#0           | 8.911                    | 9.780                | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 75RB#0           | 13.397                   | 14.760               | PASS    |
| Band4 | 15MHz     | QPSK       | 20175   | 75RB#0           | 13.427                   | 14.850               | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 75RB#0           | 13.427                   | 14.880               | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 75RB#0           | 13.397                   | 14.640               | PASS    |
| Band4 | 15MHz     | 16QAM      | 20175   | 75RB#0           | 13.427                   | 14.730               | PASS    |
| Band4 | 15MHz     | 16QAM      | 20325   | 75RB#0           | 13.427                   | 14.730               | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | 17.822                   | 19.480               | 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-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](mailto:CN.Doccheck@sgs.com)

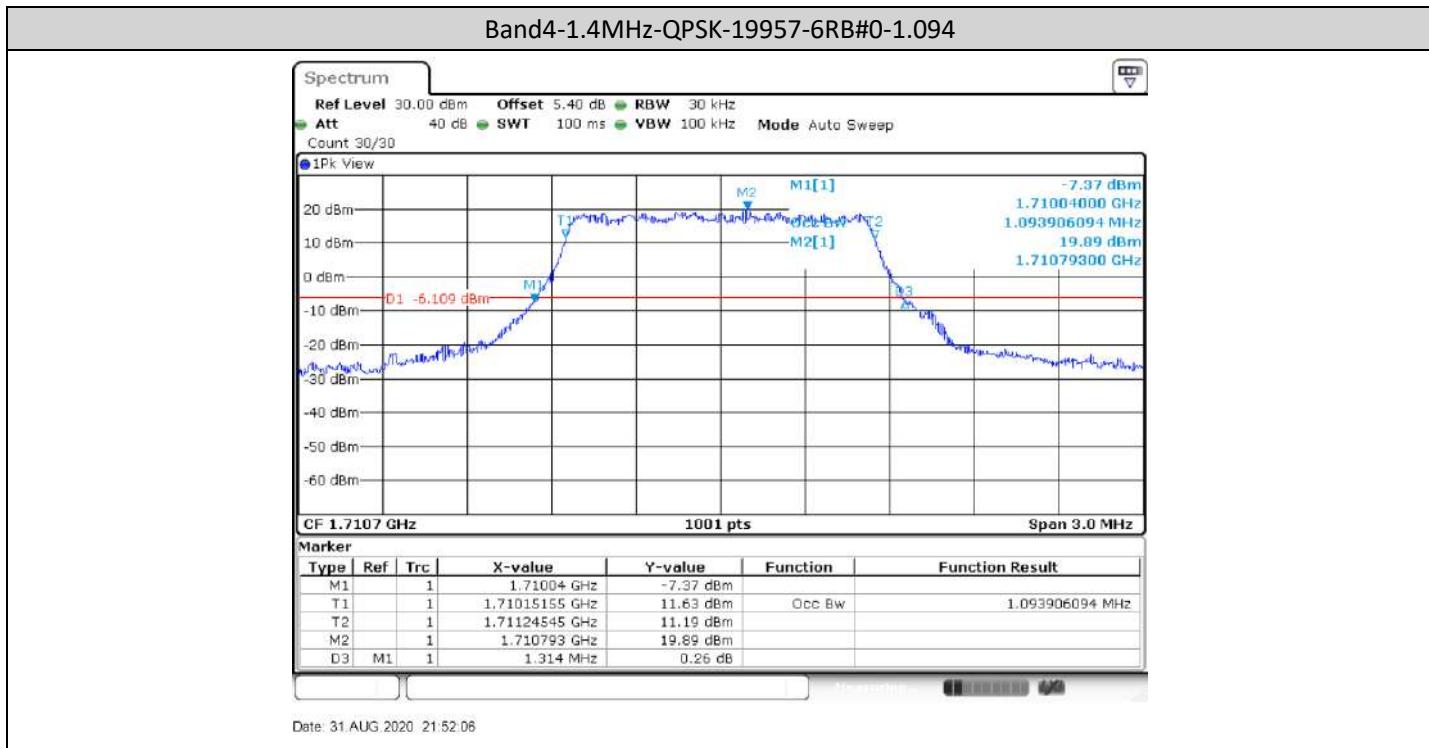


SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

|       |       |       |       |         |        |        |      |
|-------|-------|-------|-------|---------|--------|--------|------|
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 17.862 | 19.560 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 17.822 | 19.560 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 17.822 | 19.400 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 17.822 | 19.320 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 17.862 | 19.320 | PASS |

## 4.2. Test Plots



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.

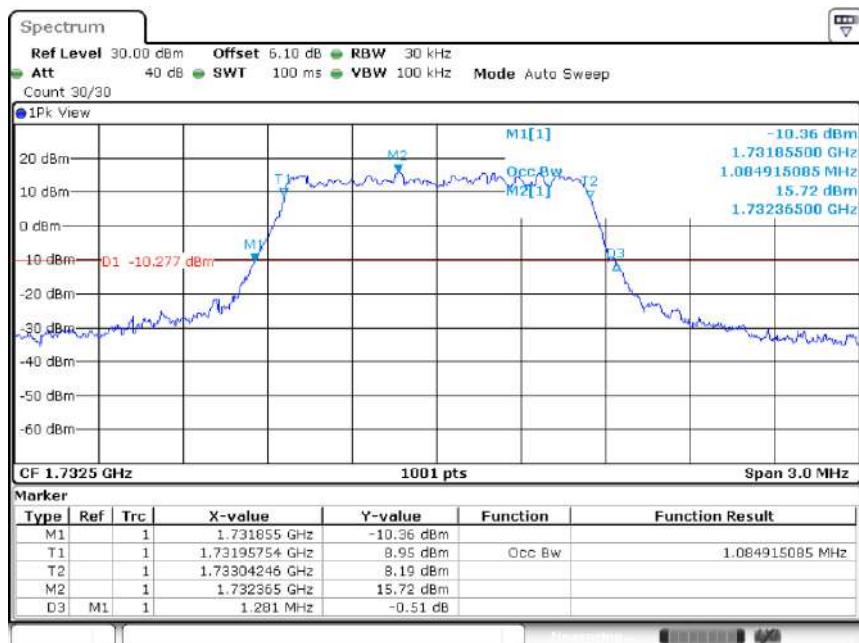
**Attention:** To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



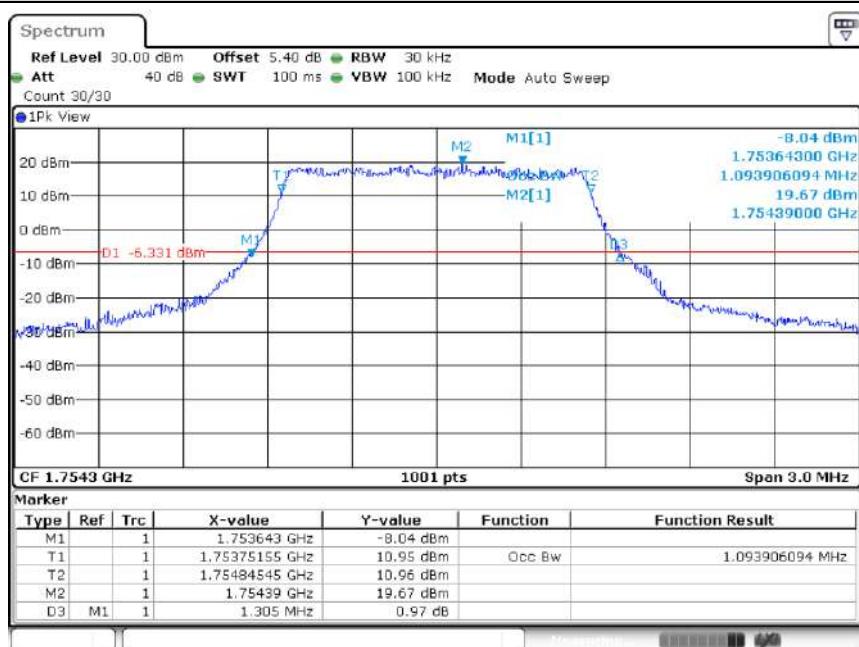
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-1.4MHz-QPSK-20175-6RB#0-1.085



## Band4-1.4MHz-QPSK-20393-6RB#0-1.094



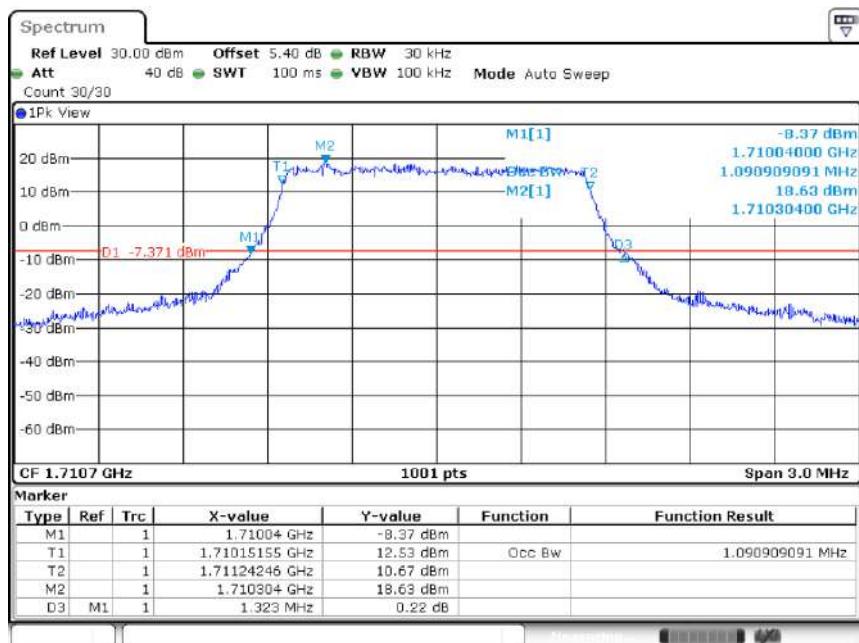
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



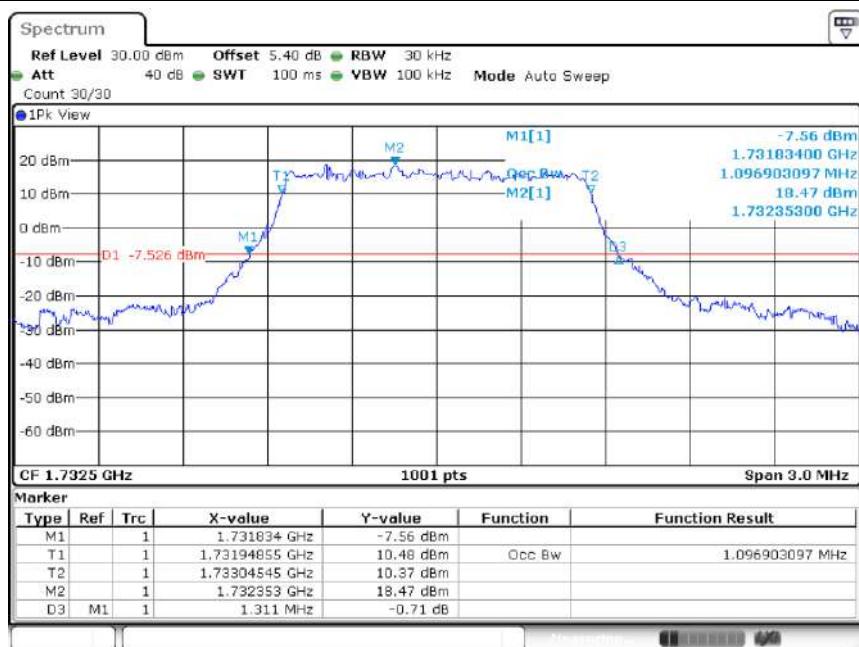
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-1.4MHz-16QAM-19957-6RB#0-1.091



Date: 31 AUG 2020 21:52:19

## Band4-1.4MHz-16QAM-20175-6RB#0-1.097



Date: 31 AUG 2020 21:52:45

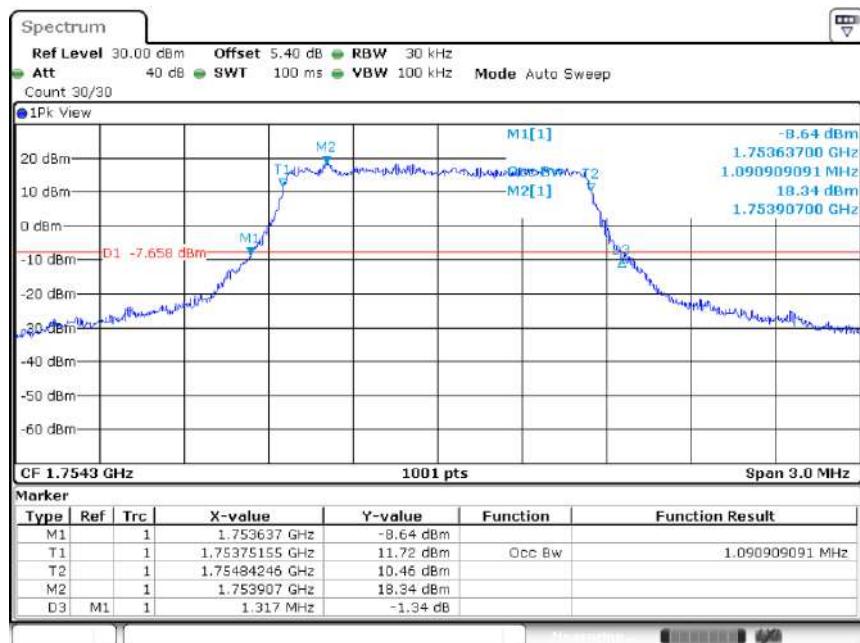
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



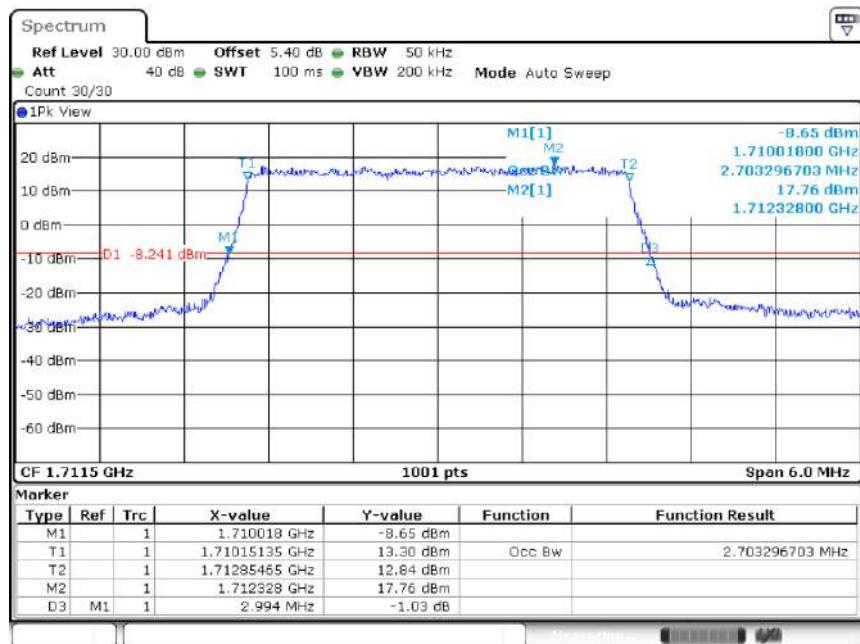
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-1.4MHz-16QAM-20393-6RB#0-1.091



Date: 31 AUG 2020 21:53:10

## Band4-3MHz-QPSK-19965-15RB#0-2.703



Date: 31 AUG 2020 21:53:28

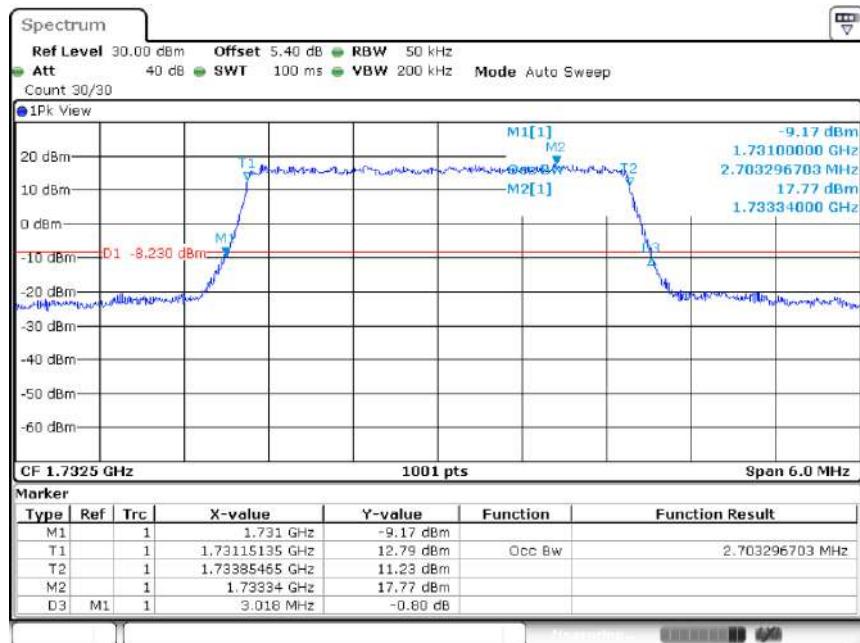
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



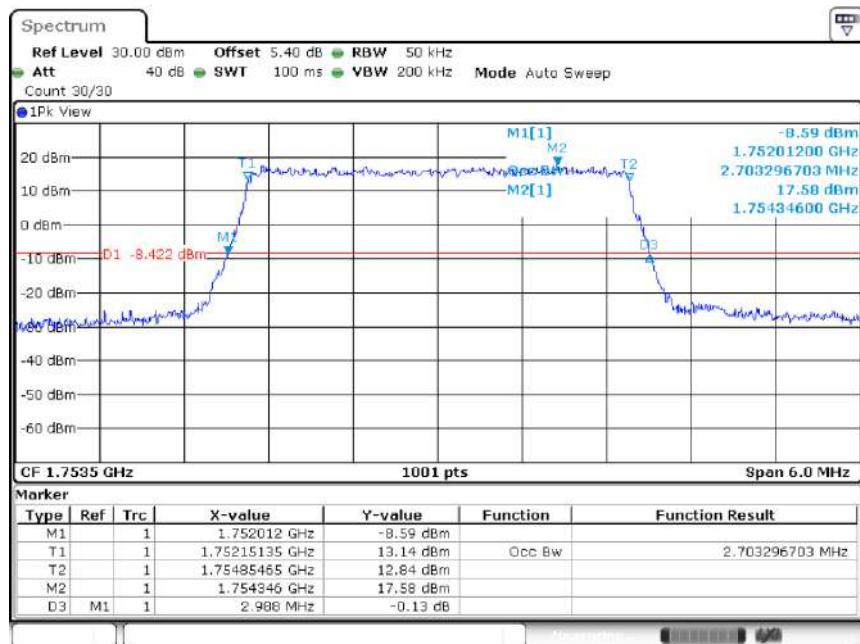
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-3MHz-QPSK-20175-15RB#0-2.703



Date: 31 AUG 2020 21:53:54

## Band4-3MHz-QPSK-20385-15RB#0-2.703



Date: 31 AUG 2020 21:54:19

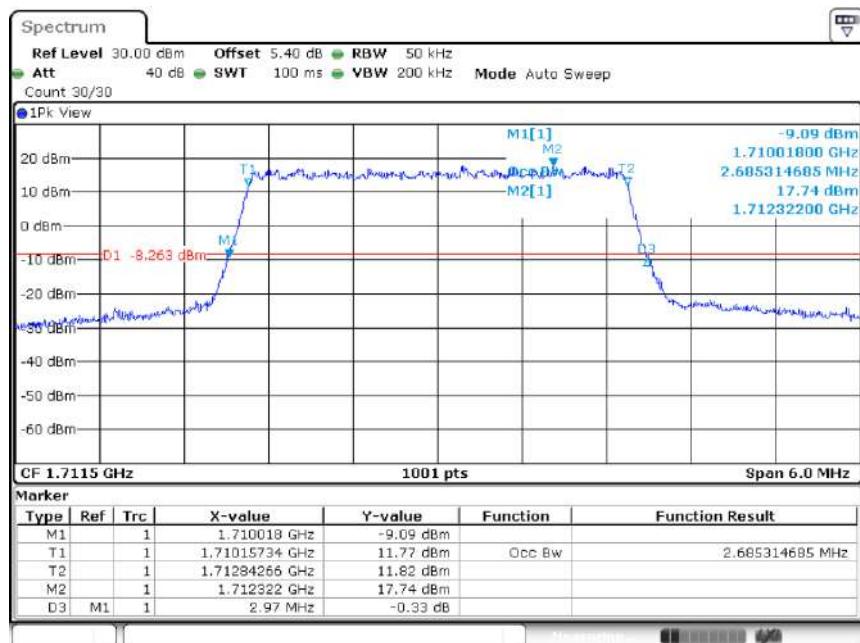
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



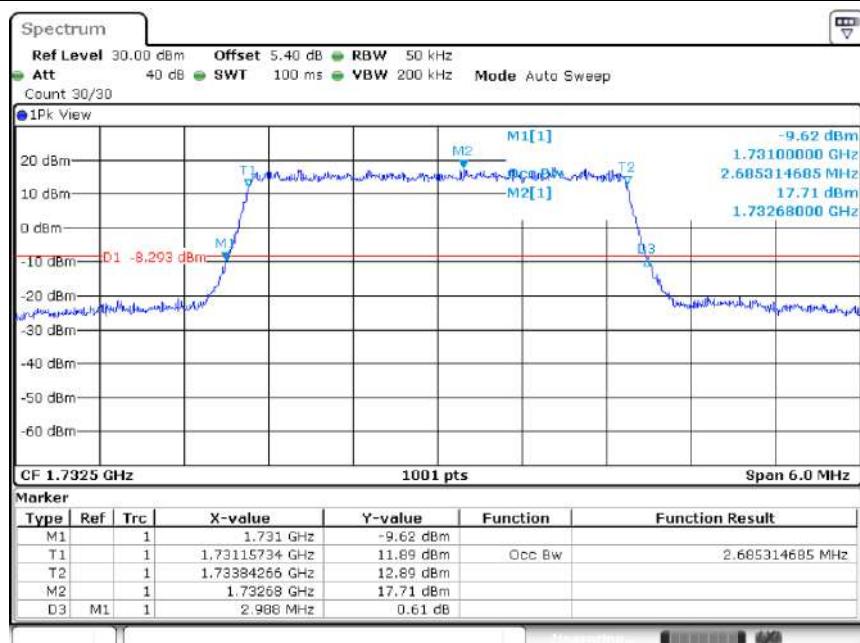
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-3MHz-16QAM-19965-15RB#0-2.685



Date: 31 AUG 2020 21:53:41

## Band4-3MHz-16QAM-20175-15RB#0-2.685



Date: 31 AUG 2020 21:54:06

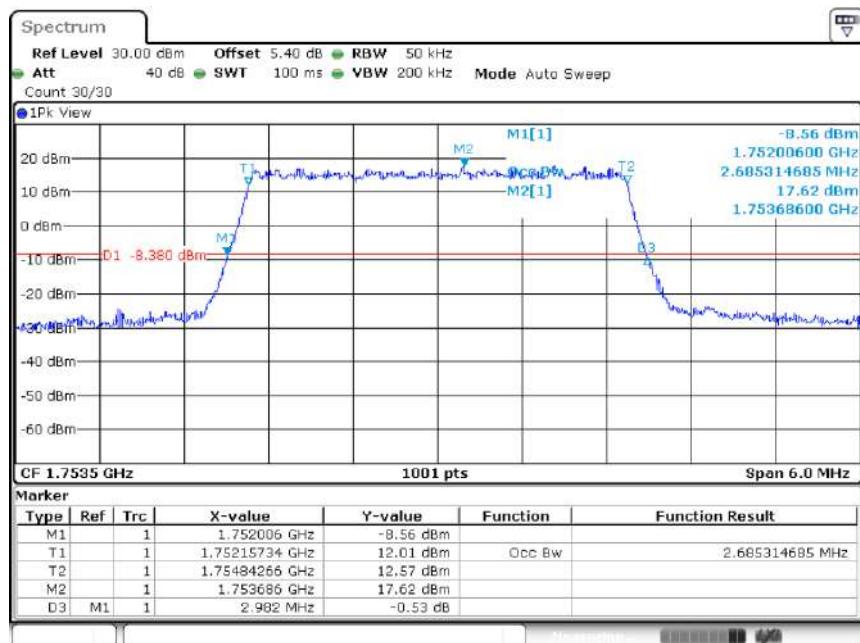
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



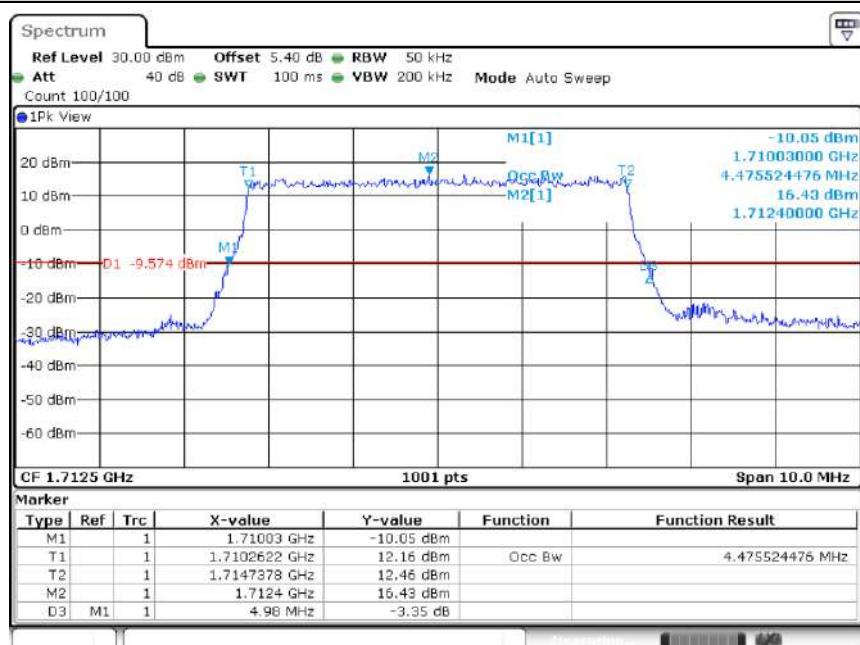
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-3MHz-16QAM-20385-15RB#0-2.685



Date: 31 AUG 2020 21:54:32

## Band4-5MHz-QPSK-19975-25RB#0-4.476



Date: 31 AUG 2020 21:54:57

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.

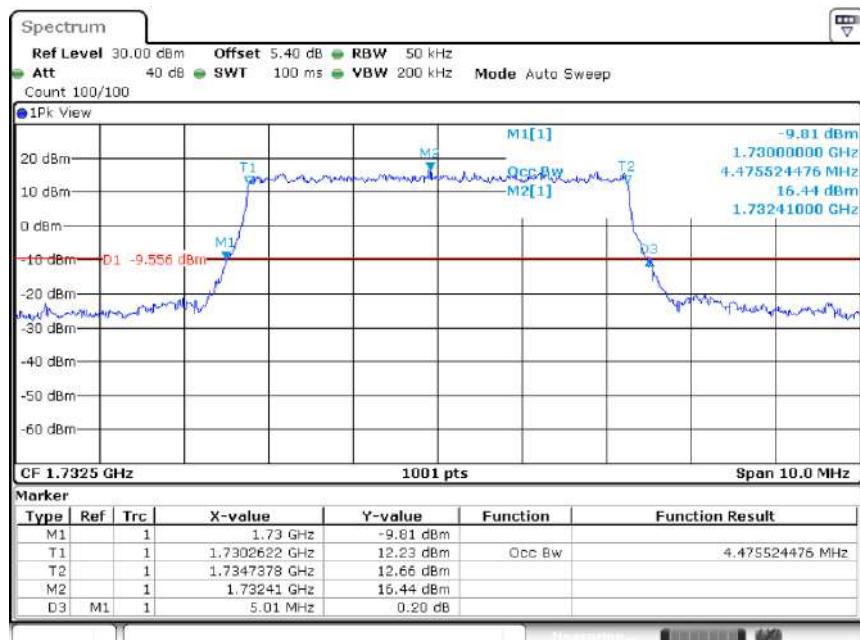
**Attention:** To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch, No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房

邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-5MHz-QPSK-20175-25RB#0-4.476



Date: 31 AUG 2020 21:55:37

## Band4-5MHz-QPSK-20375-25RB#0-4.476



Date: 31 AUG 2020 21:56:16

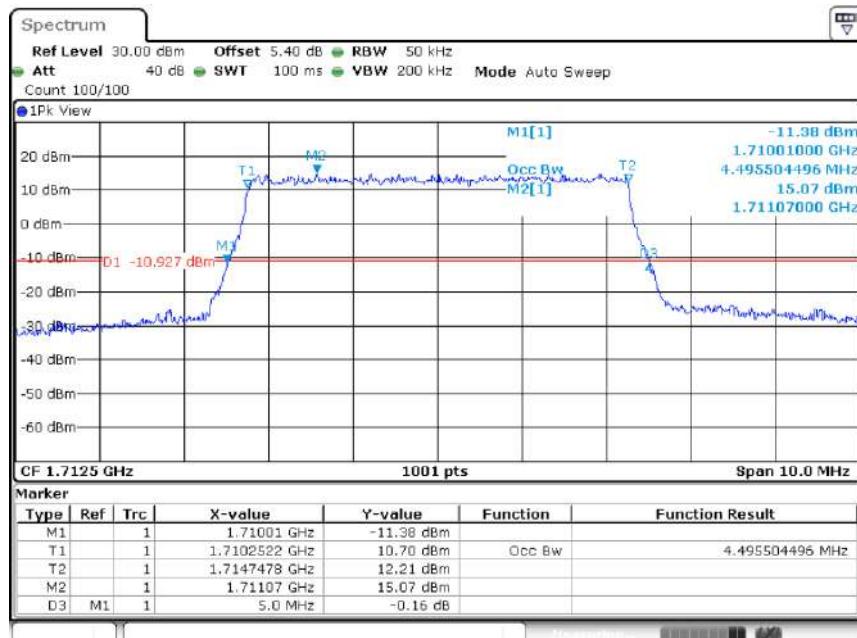
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



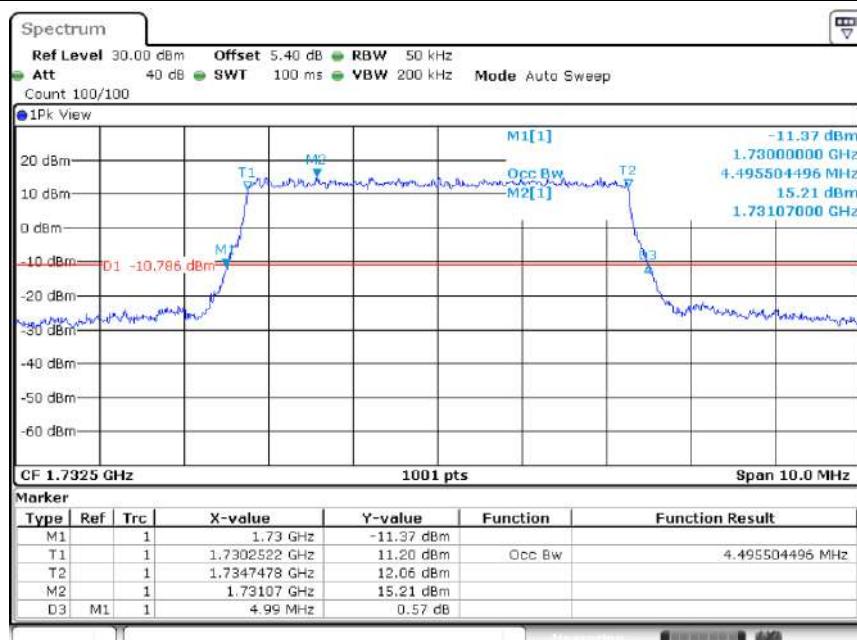
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 | (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-5MHz-16QAM-19975-25RB#0-4.496



Date: 31 AUG 2020 21:55:17

## Band4-5MHz-16QAM-20175-25RB#0-4.496



Date: 31 AUG 2020 21:55:56

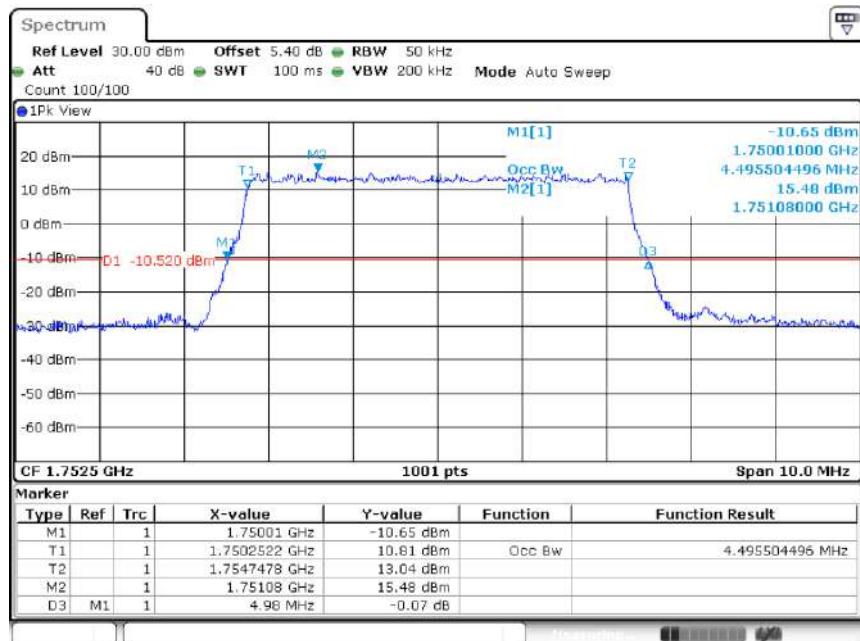
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

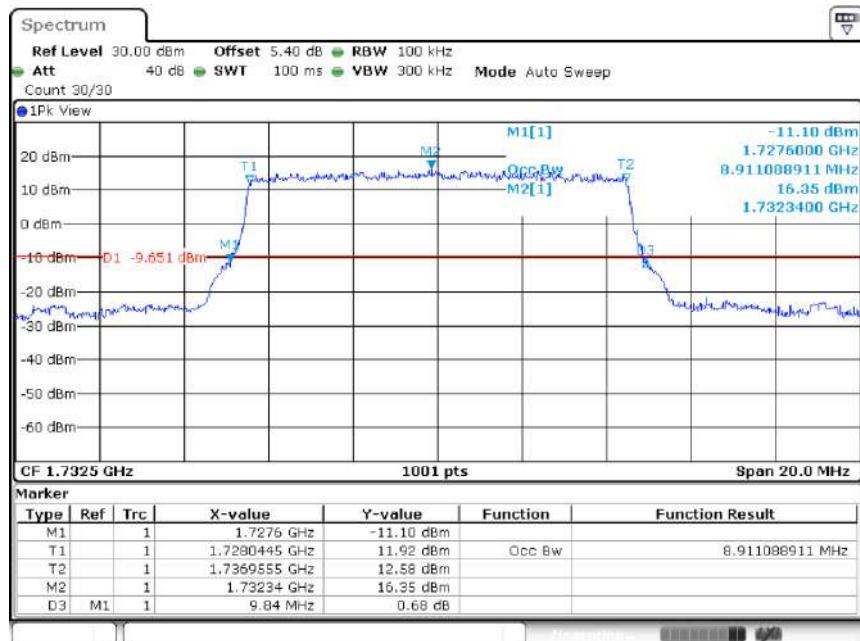


SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-5MHz-16QAM-20375-25RB#0-4.496

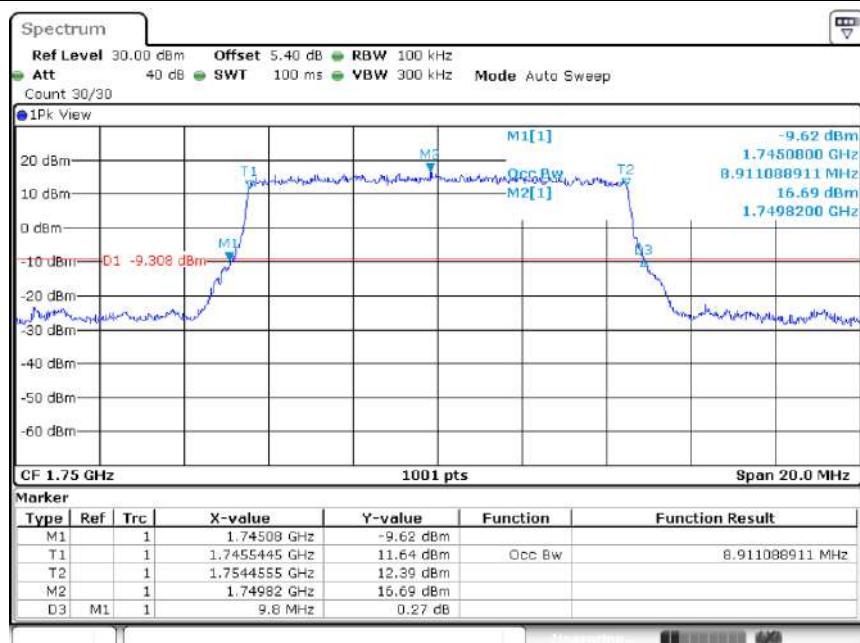


## Band4-10MHz-QPSK-20175-50RB#0-8.911



Date: 31 AUG 2020 21:57:19

## Band4-10MHz-QPSK-20350-50RB#0-8.911



Date: 31 AUG 2020 21:57:45

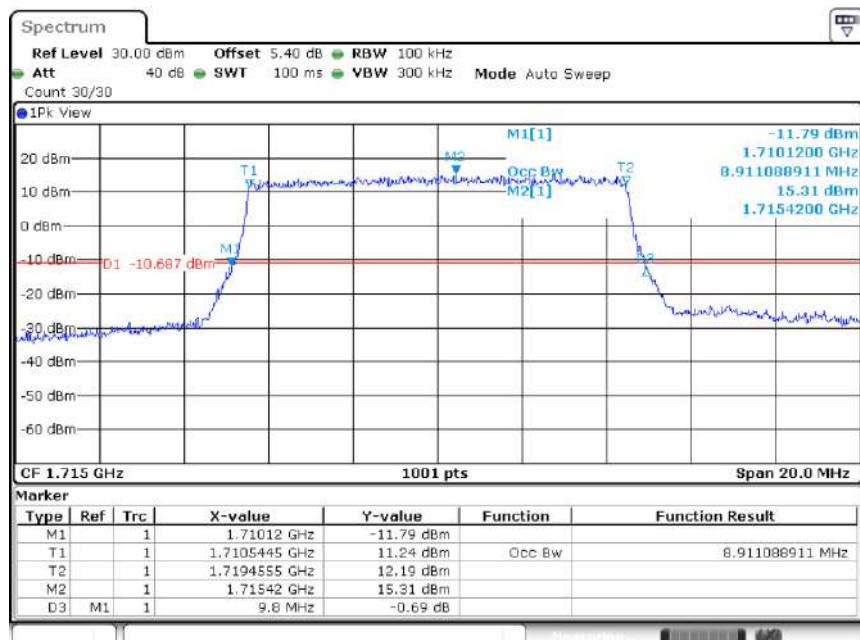
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



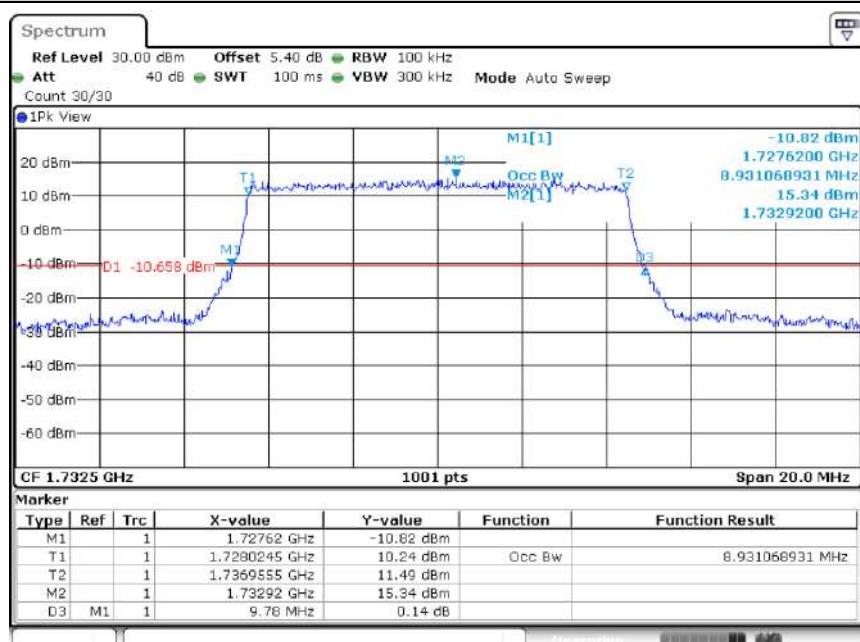
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 | (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-10MHz-16QAM-20000-50RB#0-8.911



Date: 31 AUG 2020 21:57:06

## Band4-10MHz-16QAM-20175-50RB#0-8.931



Date: 31 AUG 2020 21:57:32

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.

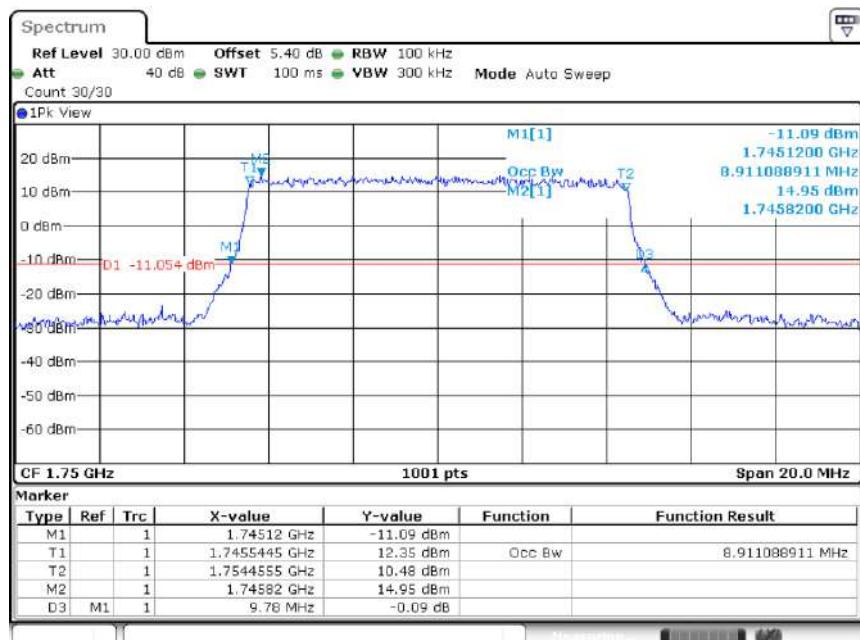
**Attention:** To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

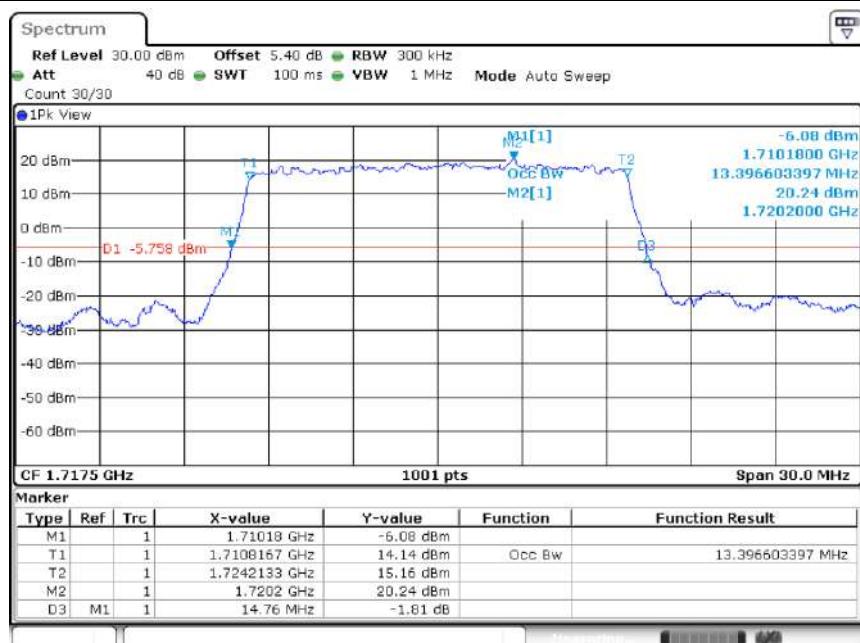
| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-10MHz-16QAM-20350-50RB#0-8.911



Date: 31 AUG 2020 21:57:57

## Band4-15MHz-QPSK-20025-75RB#0-13.397



Date: 31 AUG 2020 21:58:15

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-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.

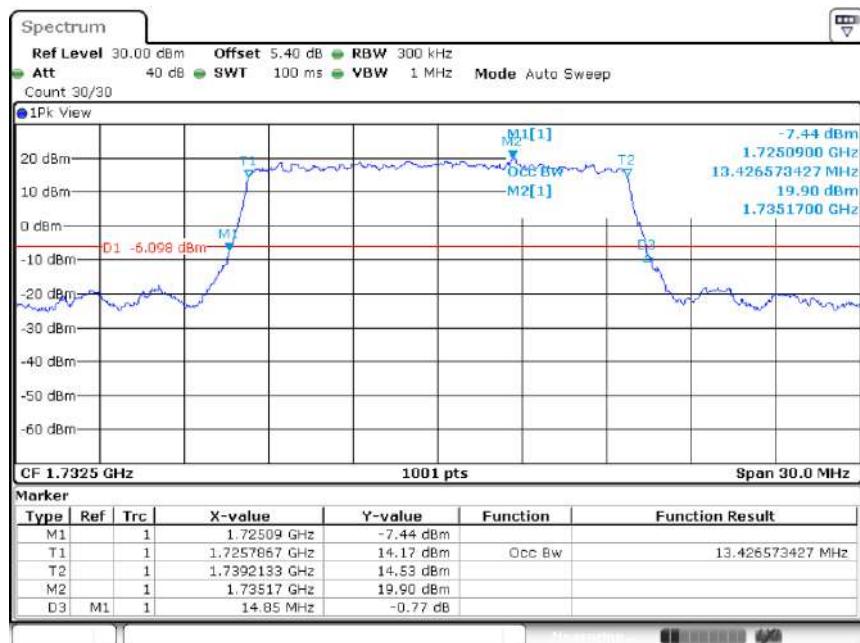
**Attention:** To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

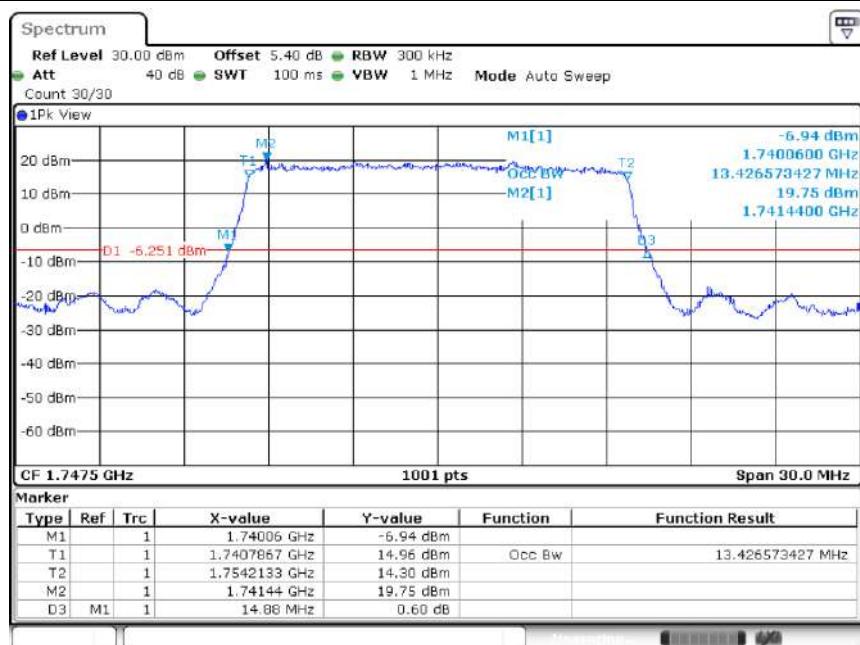
| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-15MHz-QPSK-20175-75RB#0-13.427



Date: 31 AUG 2020 21:58:41

## Band4-15MHz-QPSK-20325-75RB#0-13.427



Date: 31 AUG 2020 21:59:06

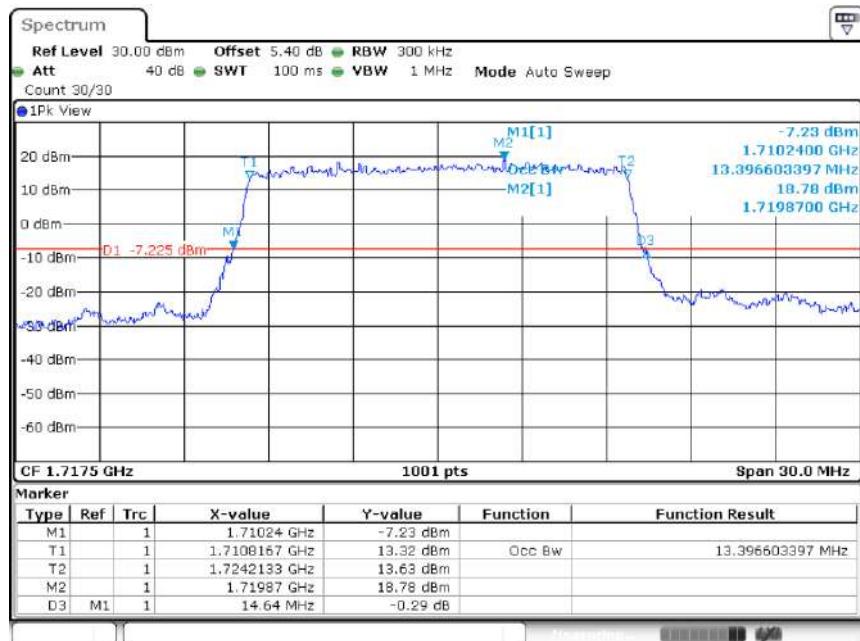
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



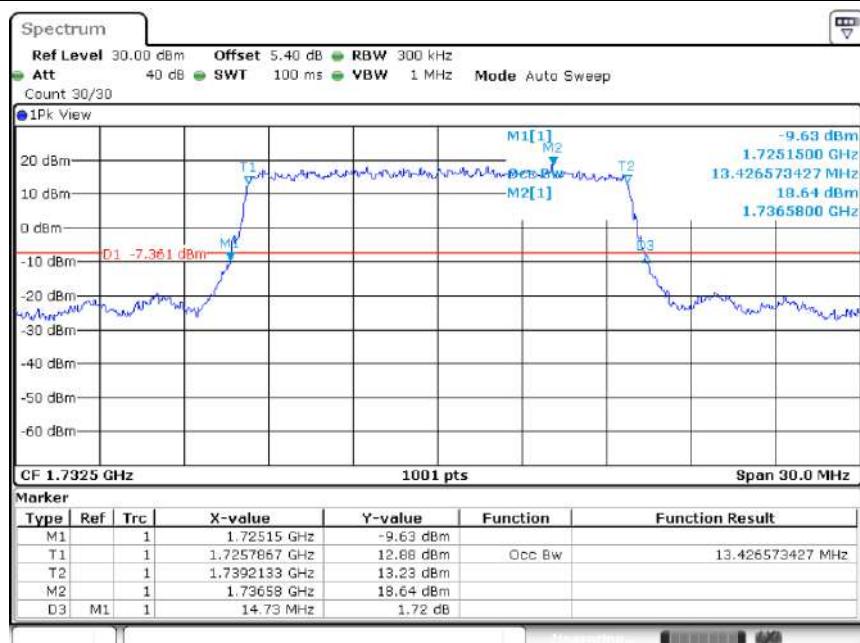
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-15MHz-16QAM-20025-75RB#0-13.397



Date: 31 AUG 2020 21:58:28

## Band4-15MHz-16QAM-20175-75RB#0-13.427



Date: 31 AUG 2020 21:58:53

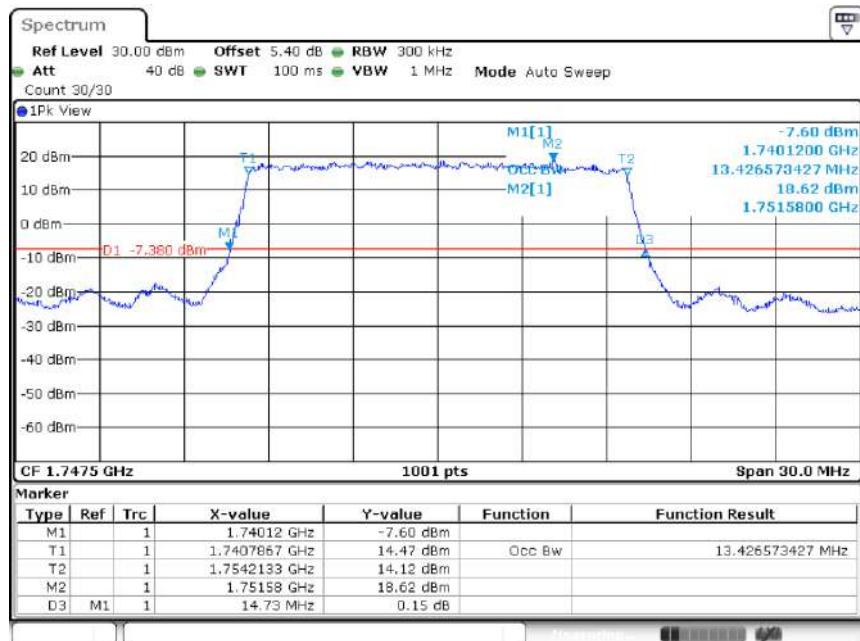
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



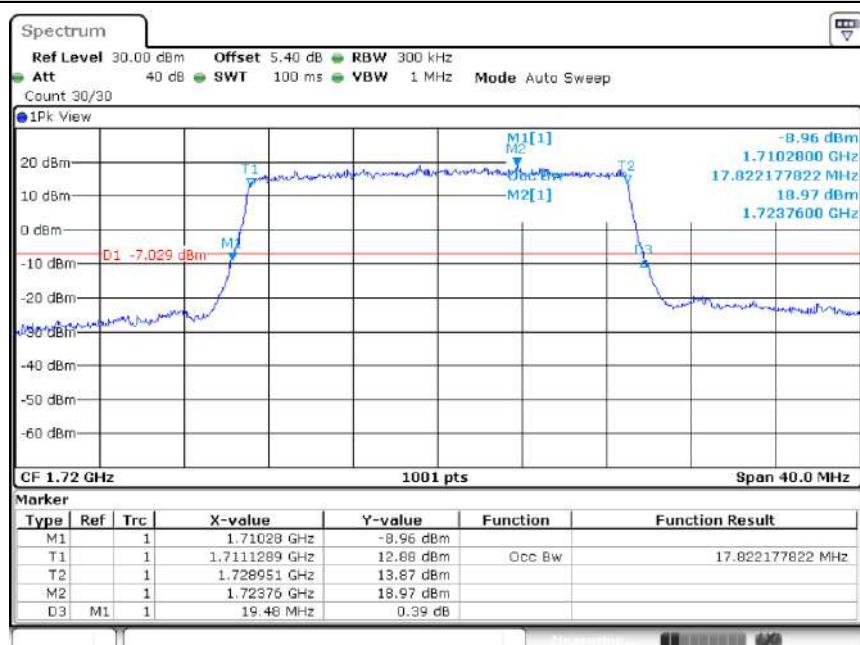
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-15MHz-16QAM-20325-75RB#0-13.427



Date: 31 AUG 2020 21:59:19

## Band4-20MHz-QPSK-20050-100RB#0-17.822



Date: 31 AUG 2020 21:59:37

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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.

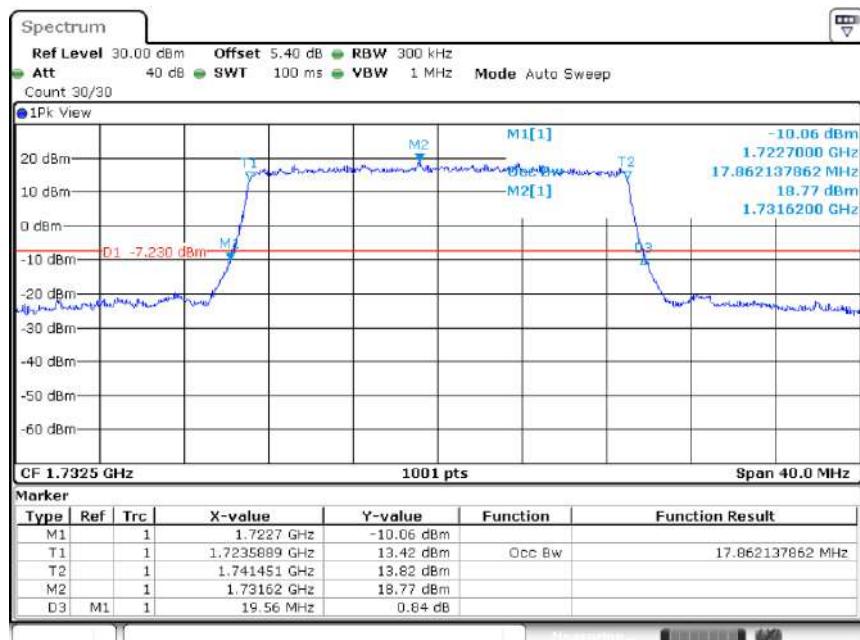
**Attention:** To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch, No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房

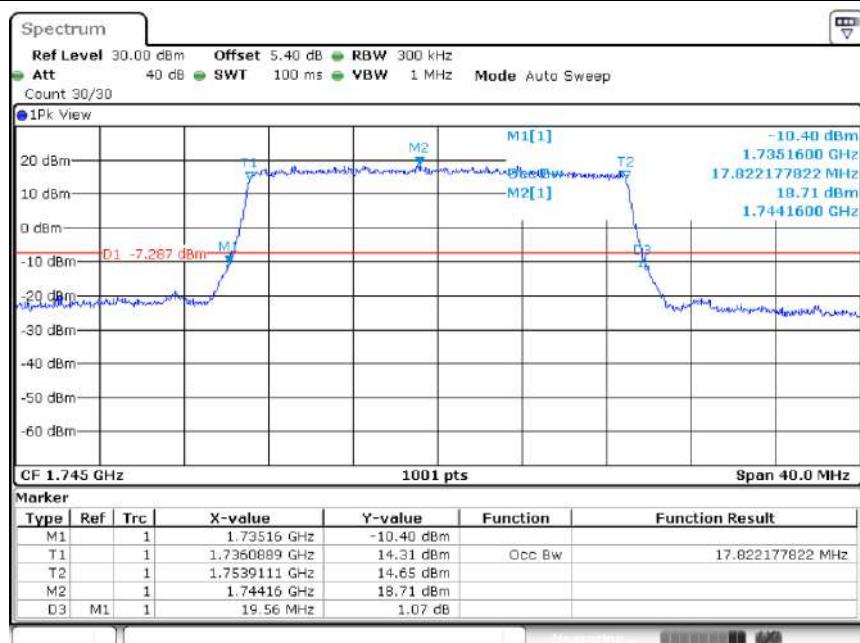
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-20MHz-QPSK-20175-100RB#0-17.862



Date: 31 AUG 2020 22:00:02

## Band4-20MHz-QPSK-20300-100RB#0-17.822



Date: 31 AUG 2020 22:00:28

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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.

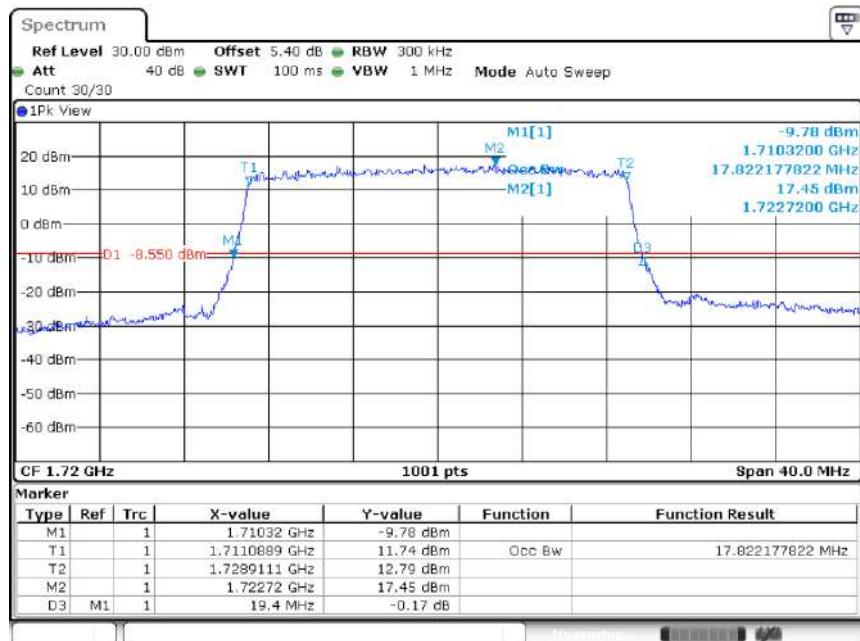
**Attention:** To check the authenticity of testing /Inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch, No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房

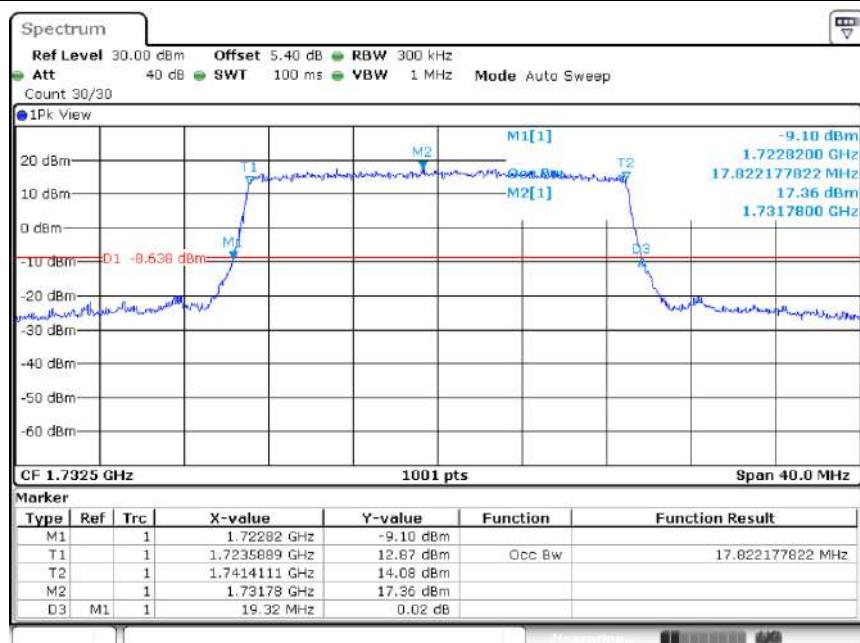
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
[sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-20MHz-16QAM-20050-100RB#0-17.822



Date: 31 AUG 2020 21:59:49

## Band4-20MHz-16QAM-20175-100RB#0-17.822



Date: 31 AUG 2020 22:00:15

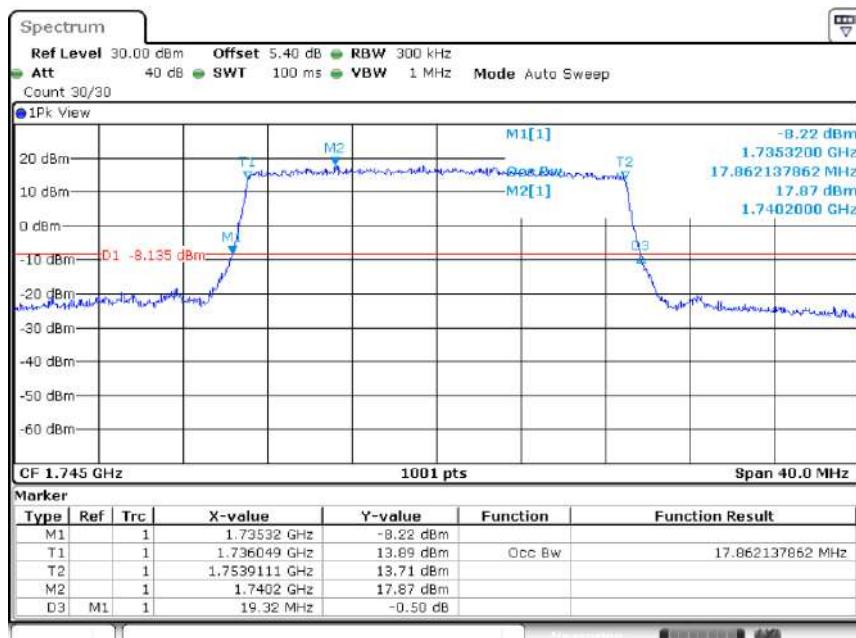
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Band4-20MHz-16QAM-20300-100RB#0-17.862



Date: 31 AUG 2020 22:00:40

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](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## 5. Band Edge Compliance

### 5.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#0            | -16.32      | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | -20.12      | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#5            | -17.61      | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | -19.39      | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#0            | -18.29      | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | -21.51      | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#5            | -18.73      | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | -21.43      | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 1RB#0            | -15.76      | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | -23.31      | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 1RB#14           | -16.70      | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | -22.45      | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 1RB#0            | -17.04      | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | -24.97      | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 1RB#14           | -18.44      | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | -24.90      | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 1RB#0            | -18.45      | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | -24.04      | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 1RB#24           | -20.13      | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | -22.75      | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 1RB#0            | -20.38      | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | -26.07      | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 1RB#24           | -20.23      | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | -24.48      | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 1RB#0            | -28.14      | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | -23.75      | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 1RB#49           | -27.93      | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | -21.75      | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 1RB#0            | -28.81      | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 50RB#0           | -27.20      | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 1RB#49           | -28.37      | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 50RB#0           | -24.89      | 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-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.

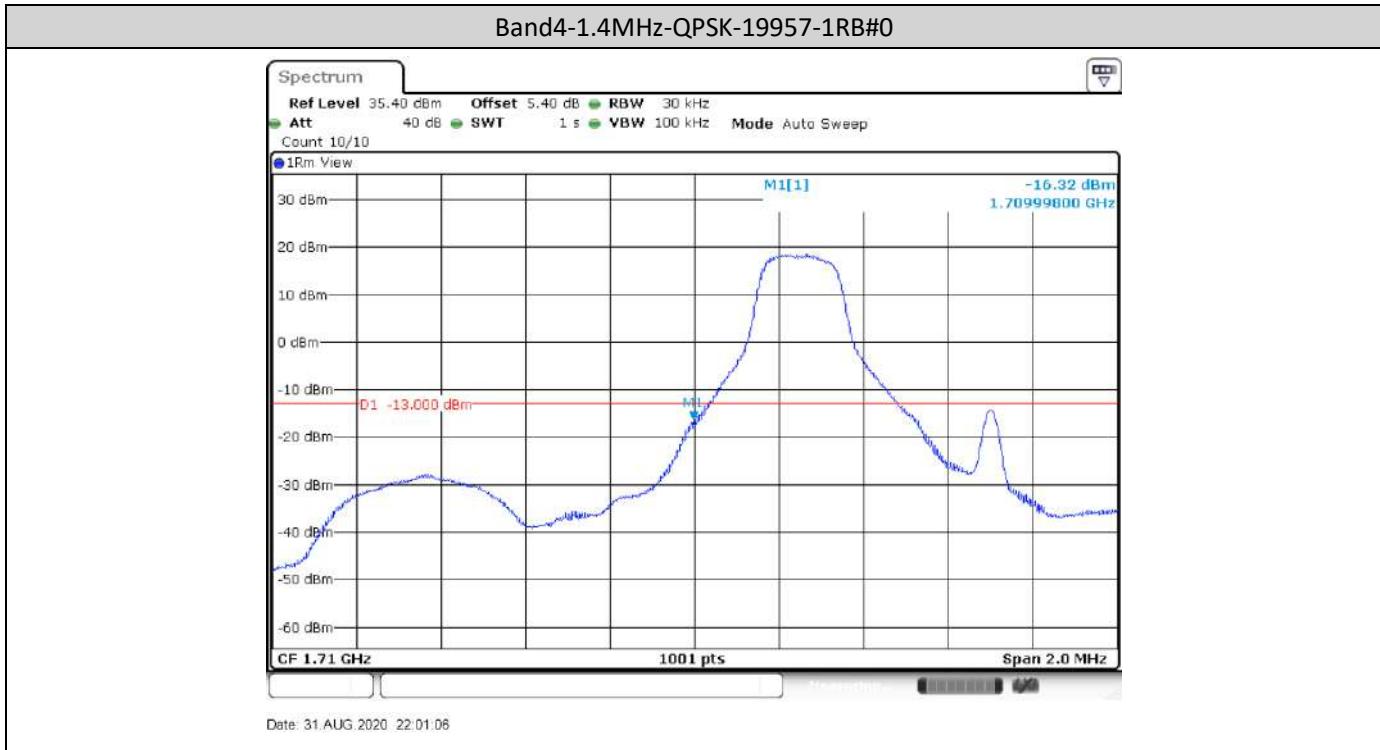
**Attention:** To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

|       |       |       |       |         |        |      |
|-------|-------|-------|-------|---------|--------|------|
| Band4 | 15MHz | QPSK  | 20025 | 1RB#0   | -24.79 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0  | -24.84 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#74  | -23.63 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0  | -22.11 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0   | -25.79 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0  | -28.13 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74  | -24.26 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0  | -25.10 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#0   | -25.96 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | -24.23 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#99  | -25.24 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | -22.10 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0   | -27.01 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | -27.95 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99  | -25.62 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | -25.54 | PASS |

## 5.2. Test Plots



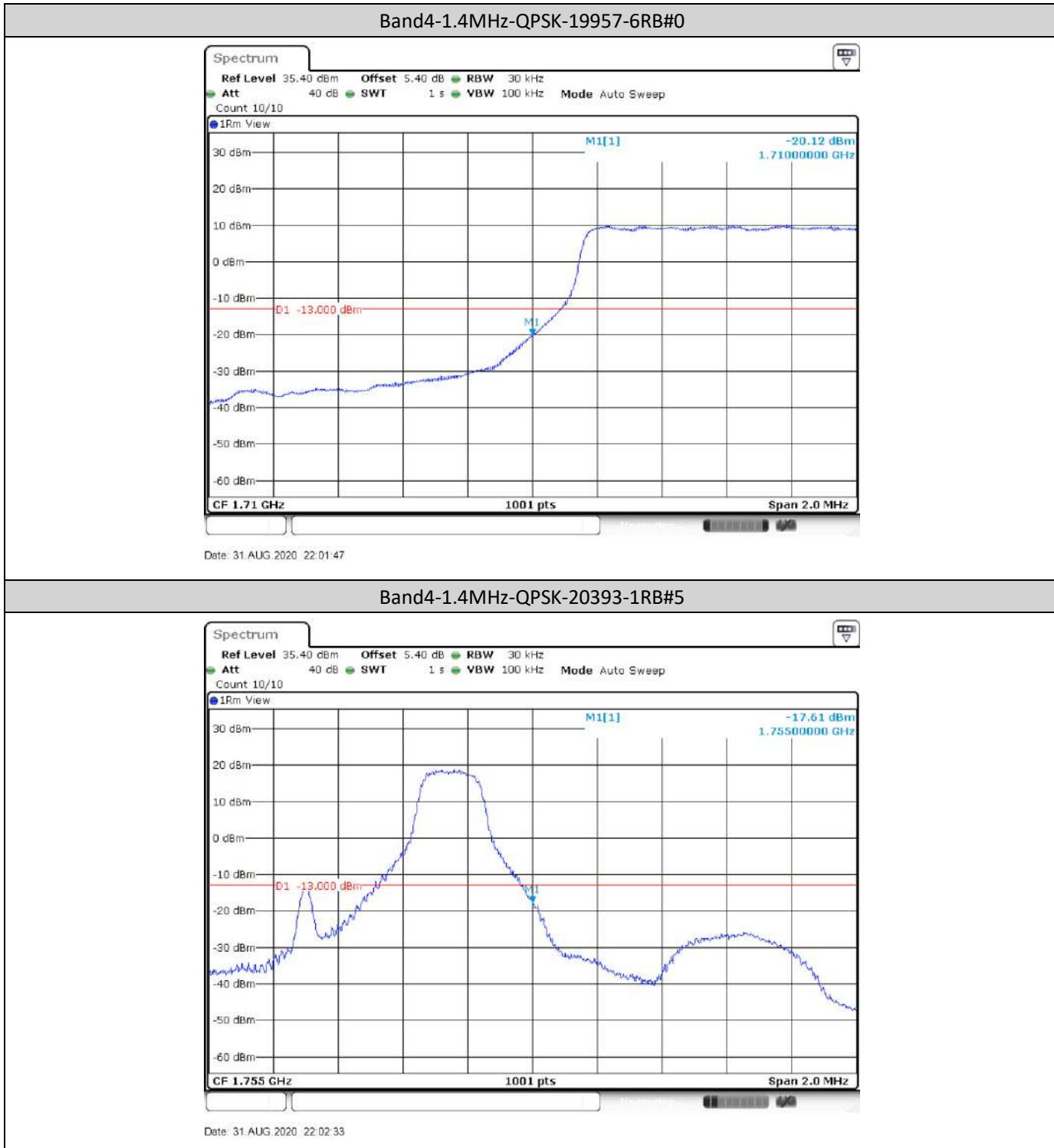
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

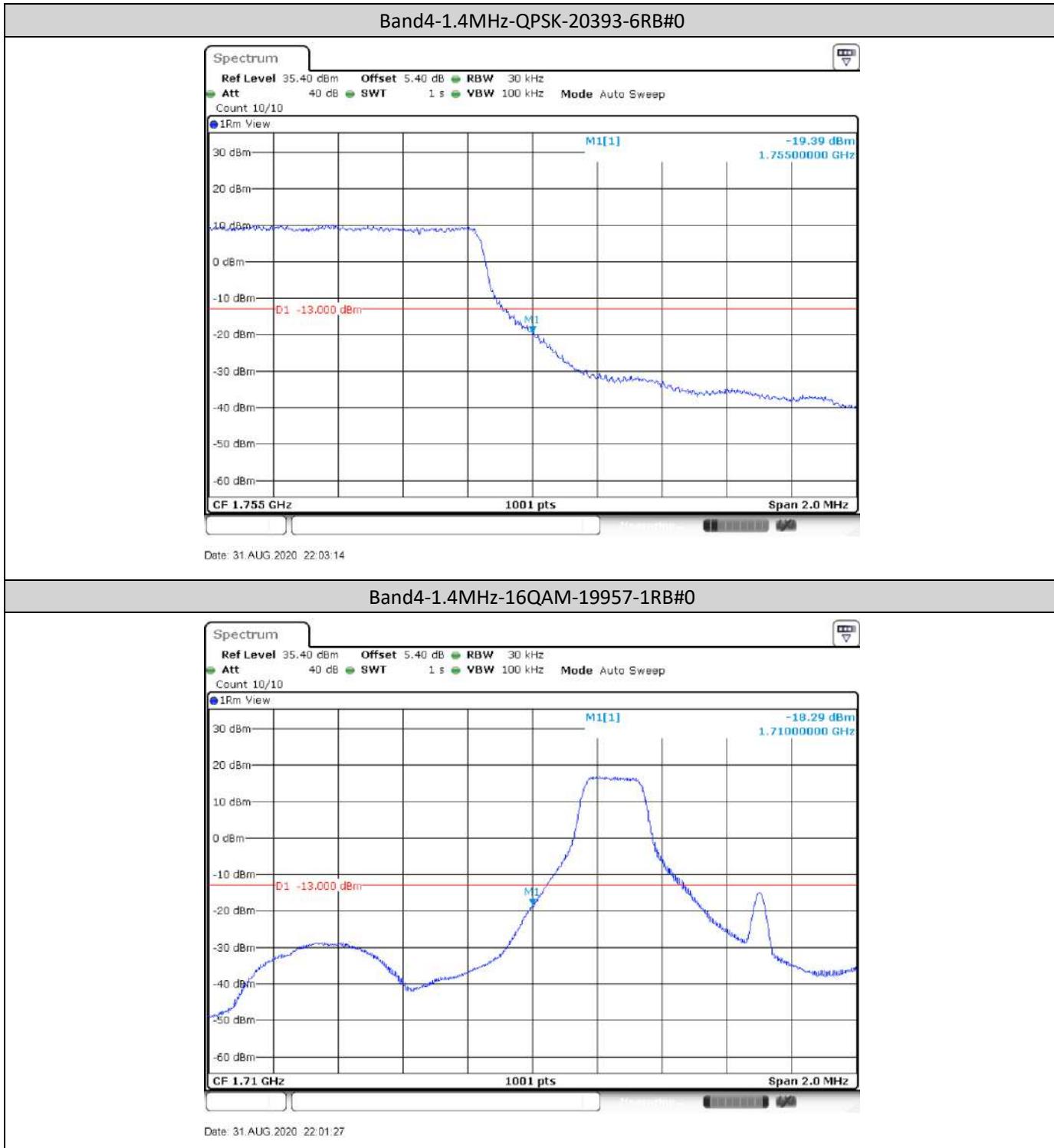


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com

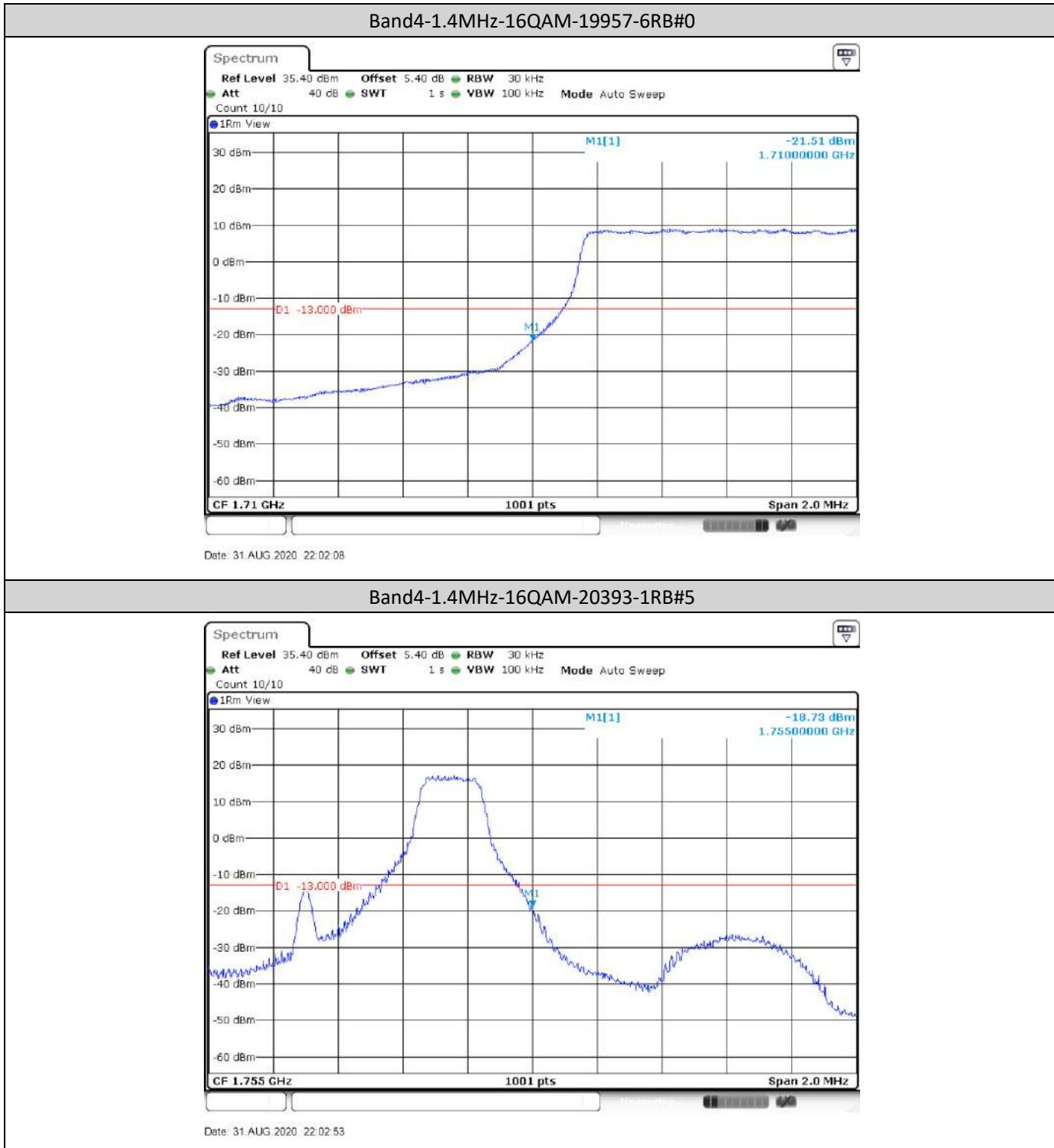


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com

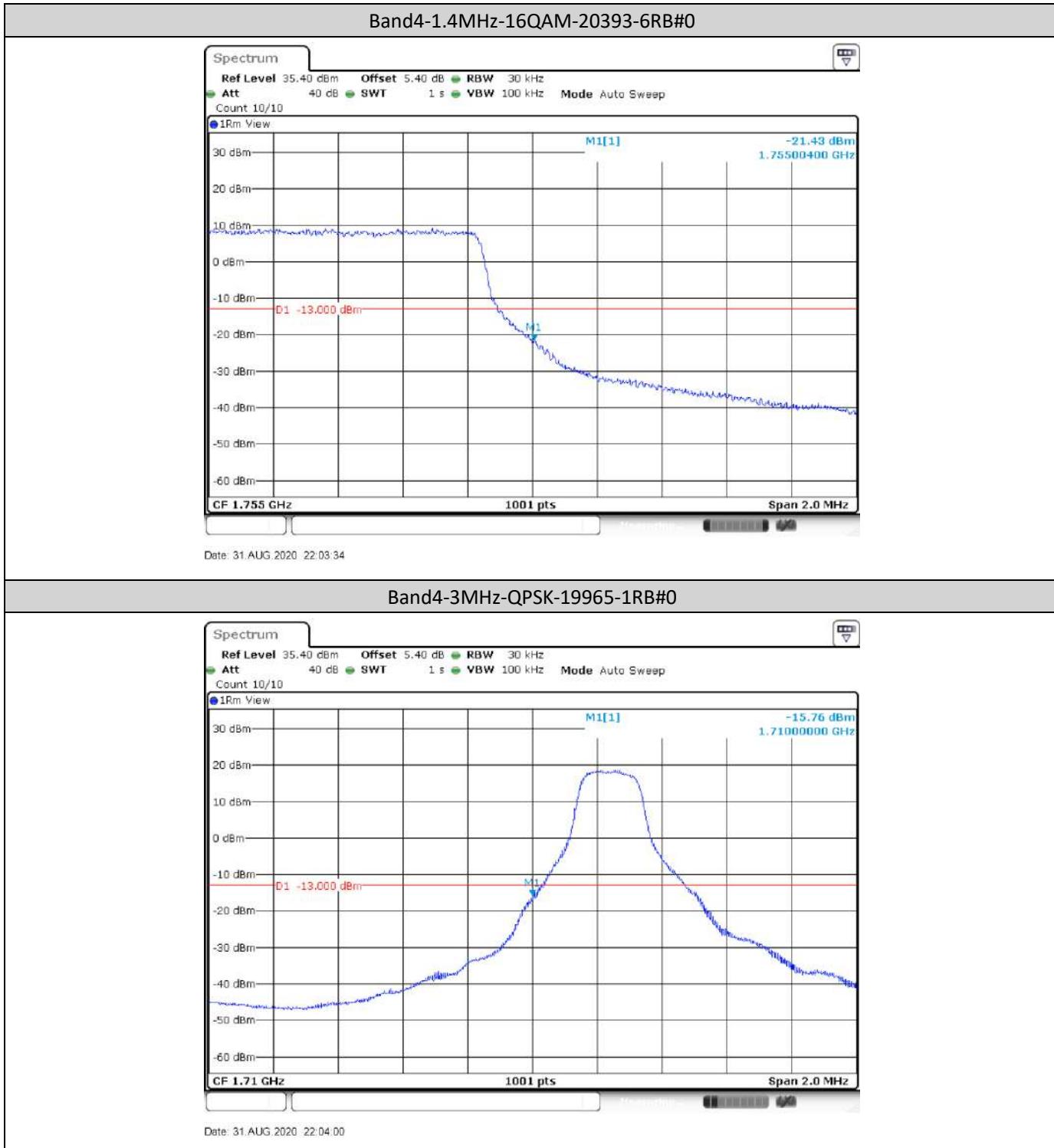


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com



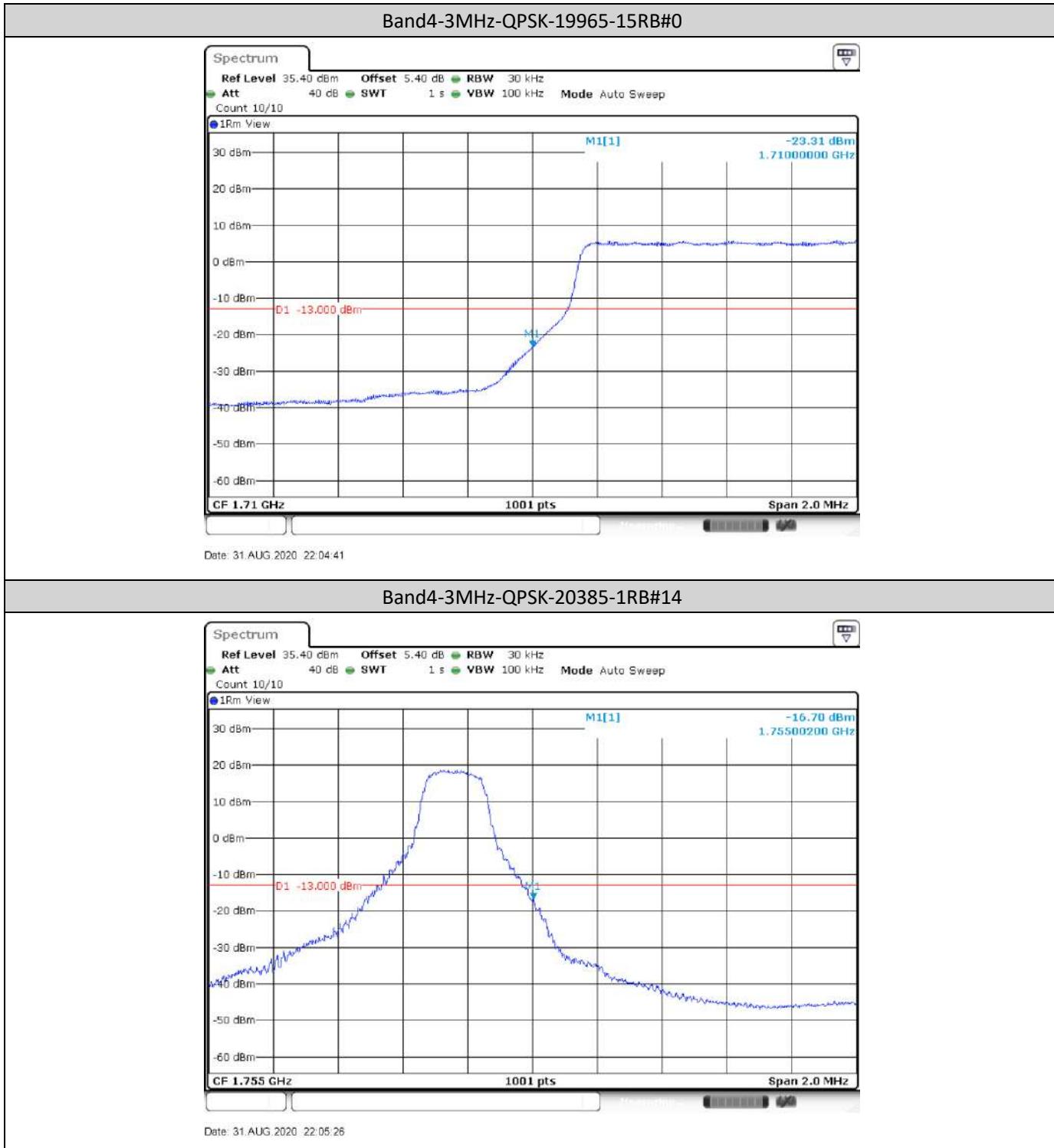
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

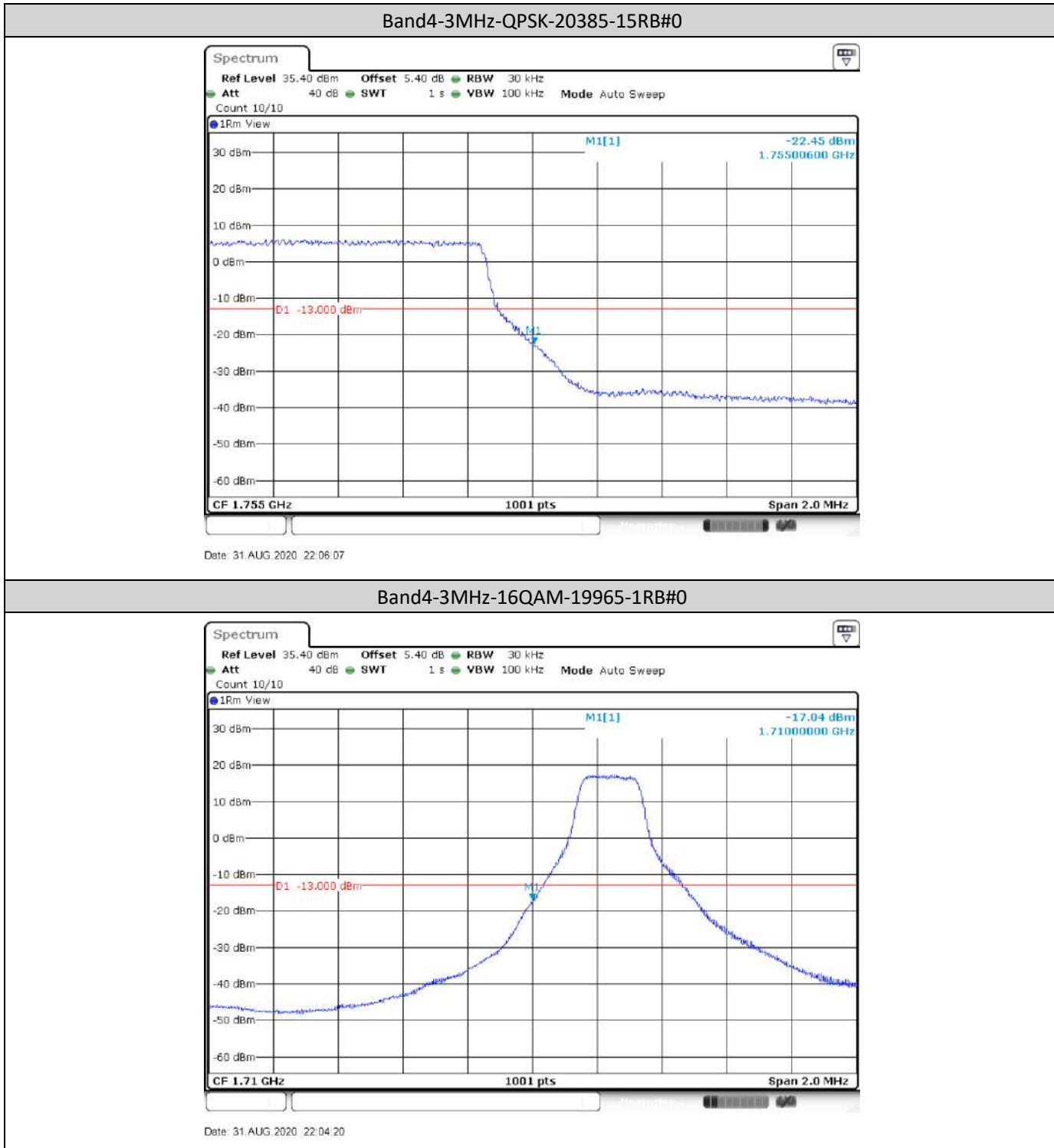


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com

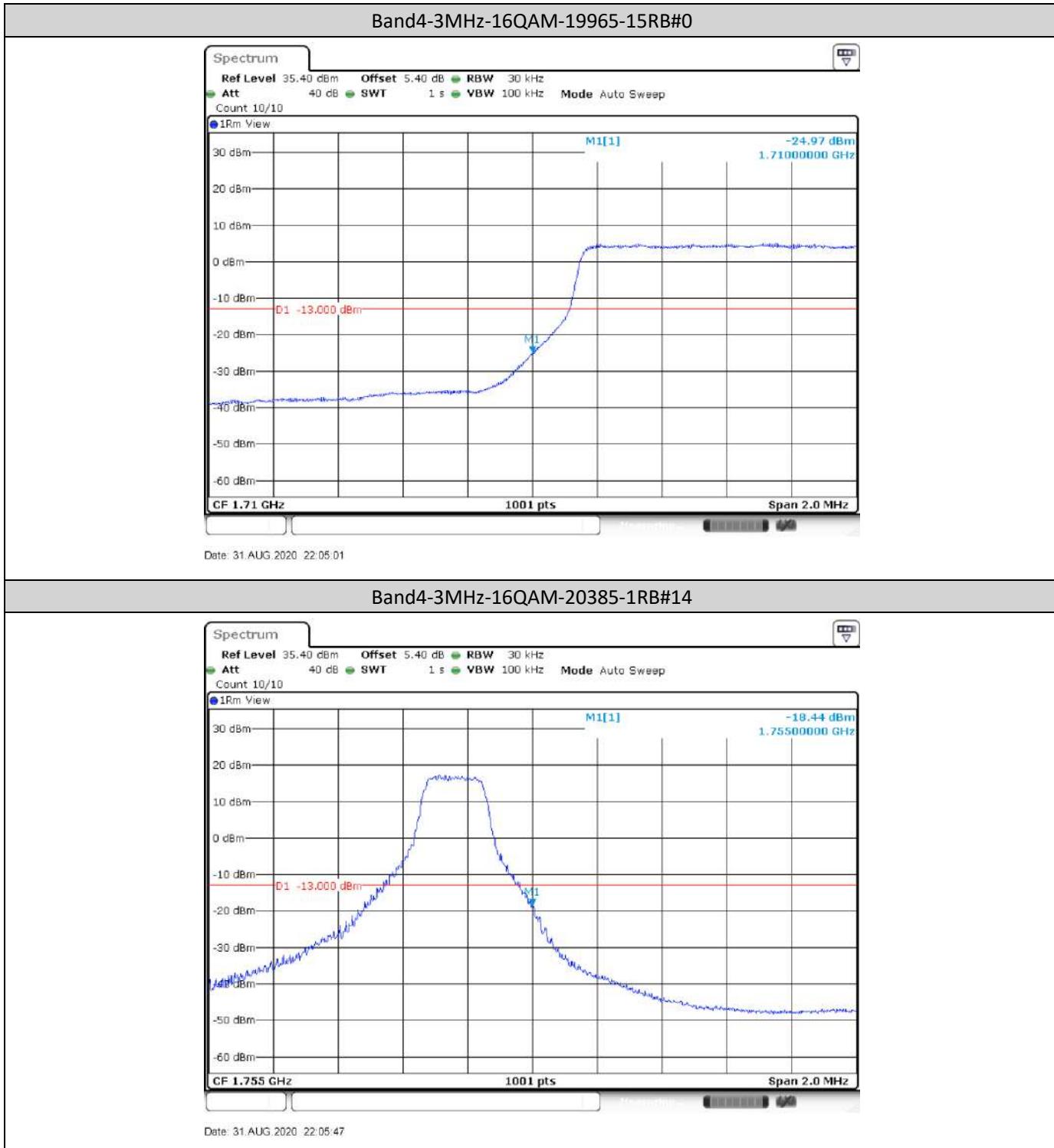


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com

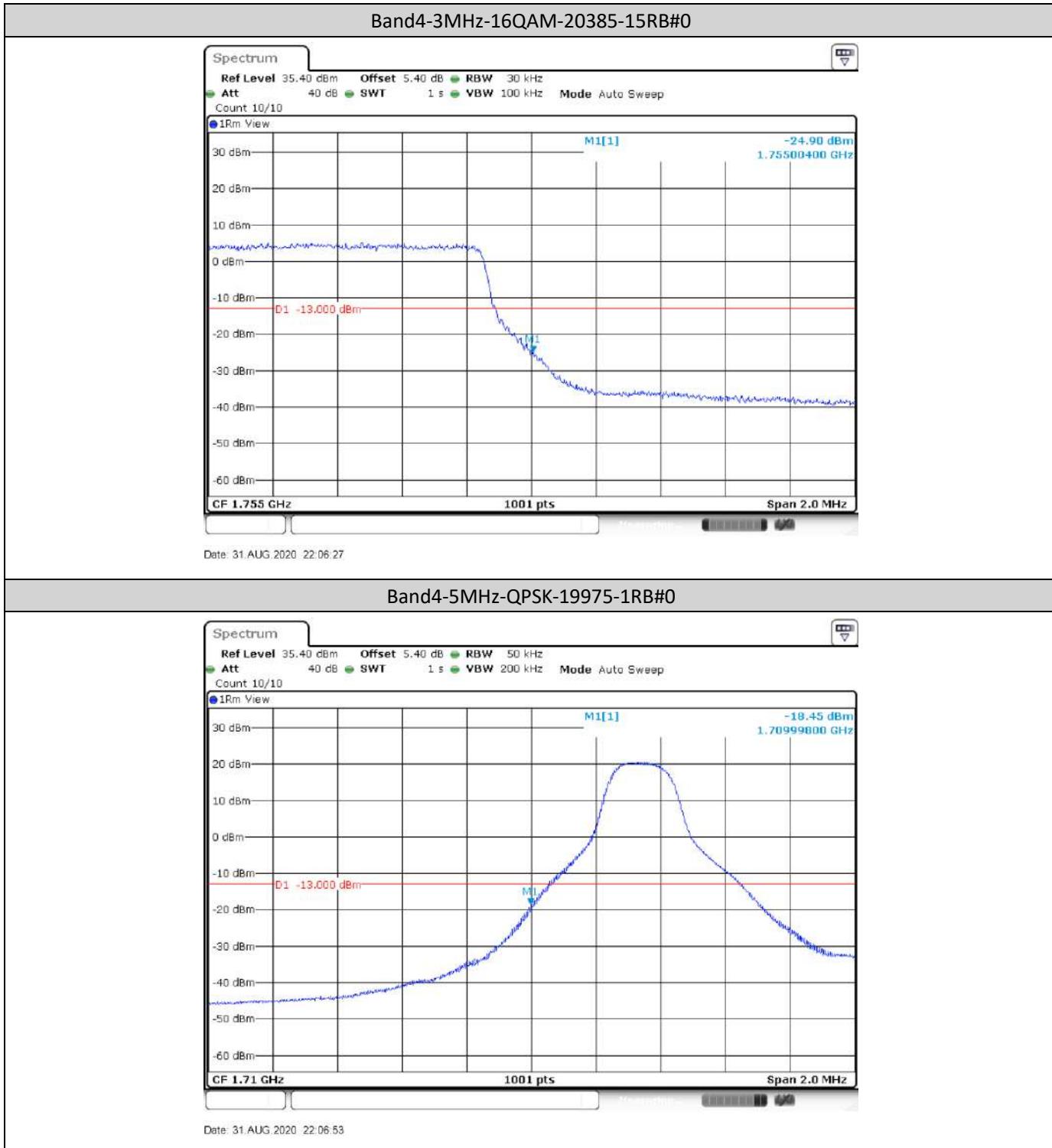


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



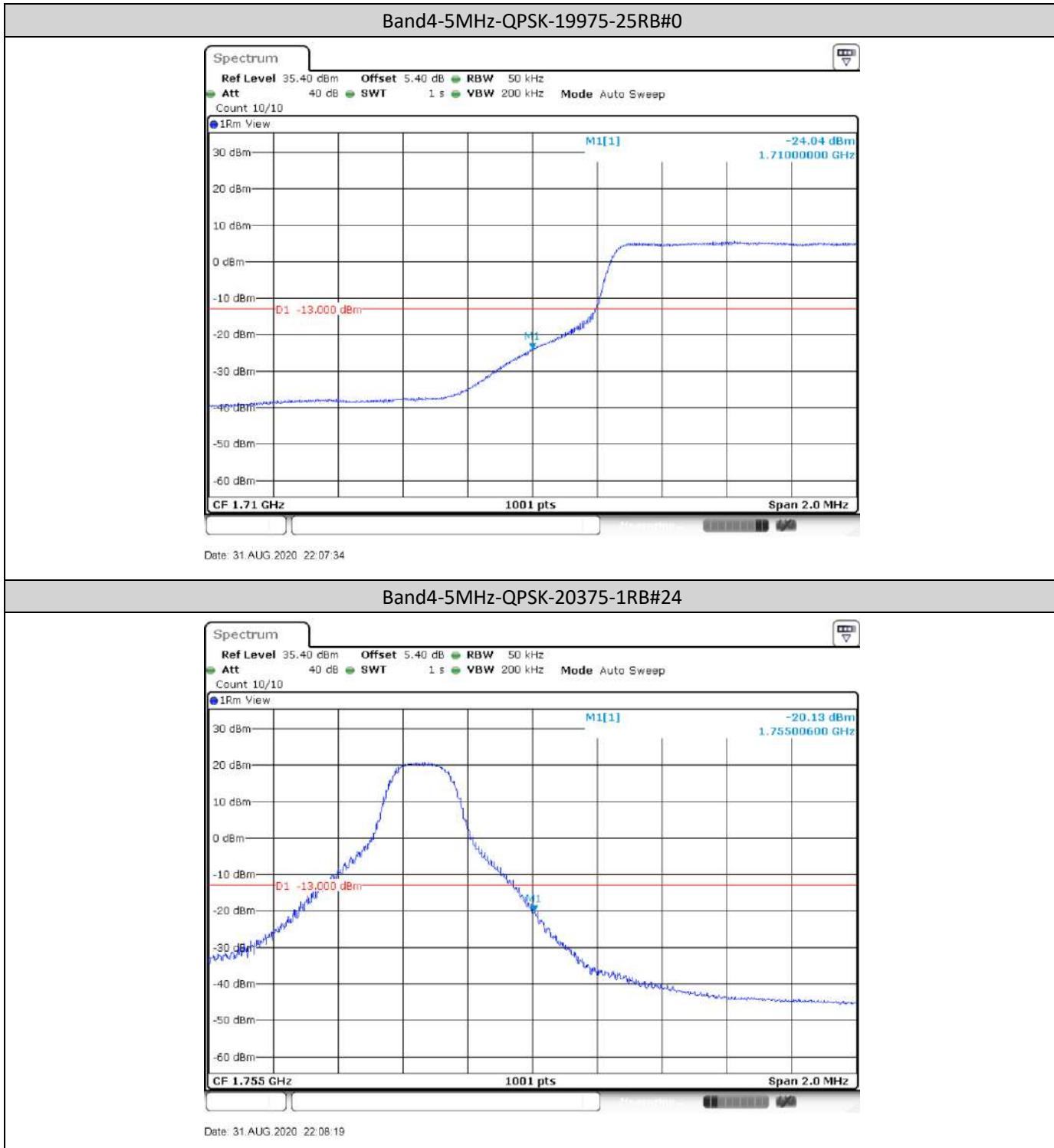
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057



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](mailto:CN.Doccheck@sgs.com)



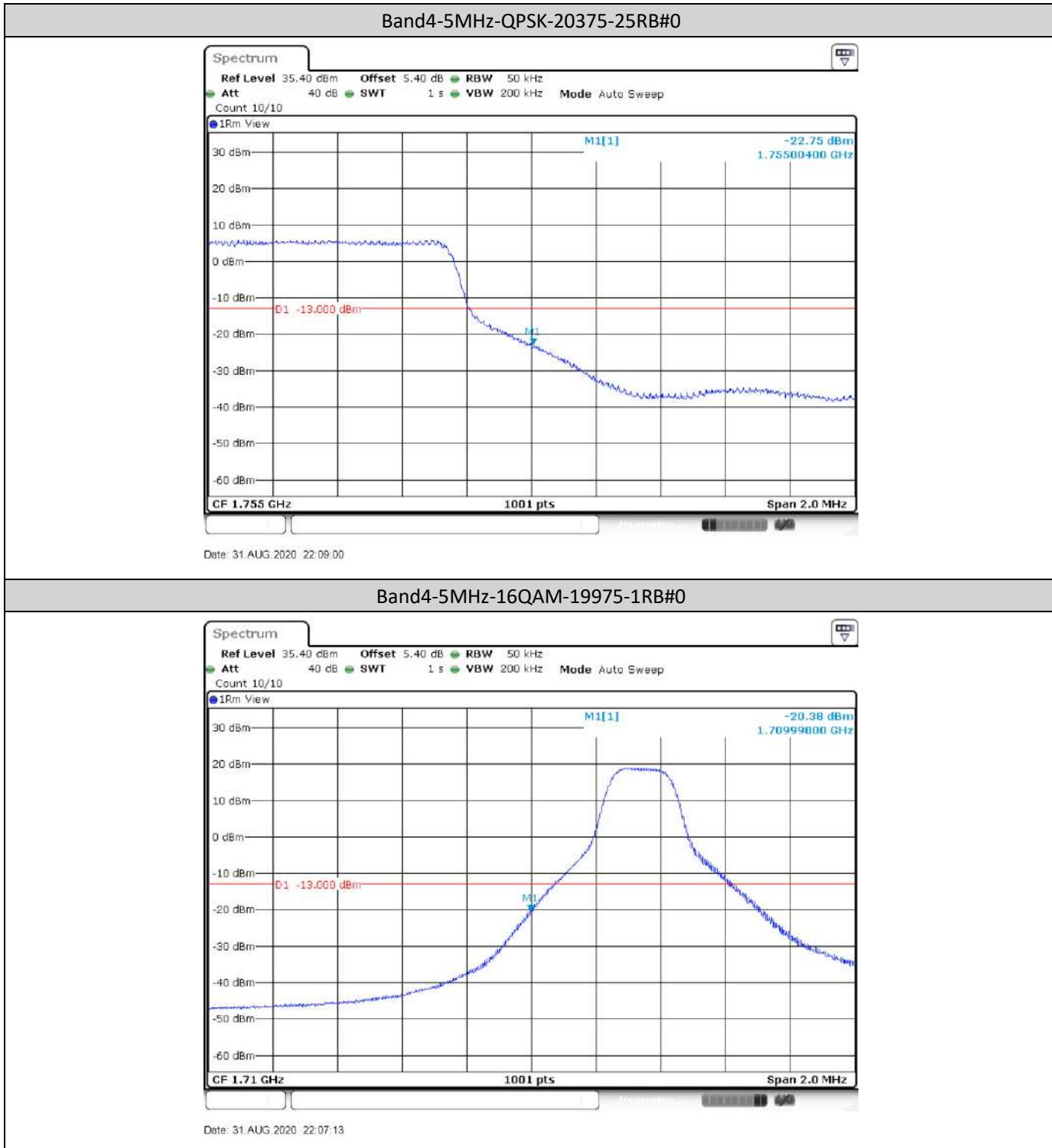


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
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 <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](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057

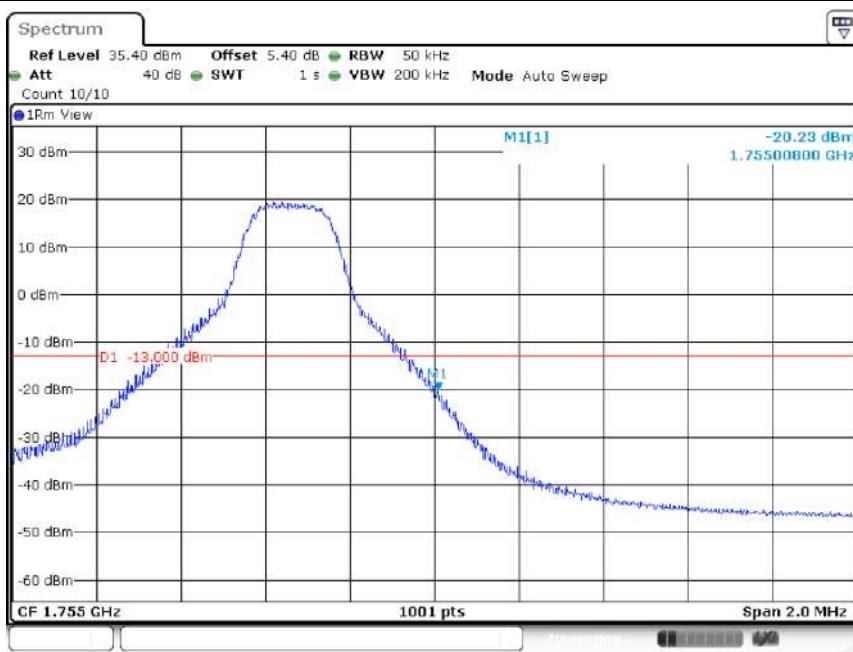
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com

## Band4-5MHz-16QAM-19975-25RB#0



Date: 31 AUG 2020 22:07:54

## Band4-5MHz-16QAM-20375-1RB#24



Date: 31 AUG 2020 22:08:40

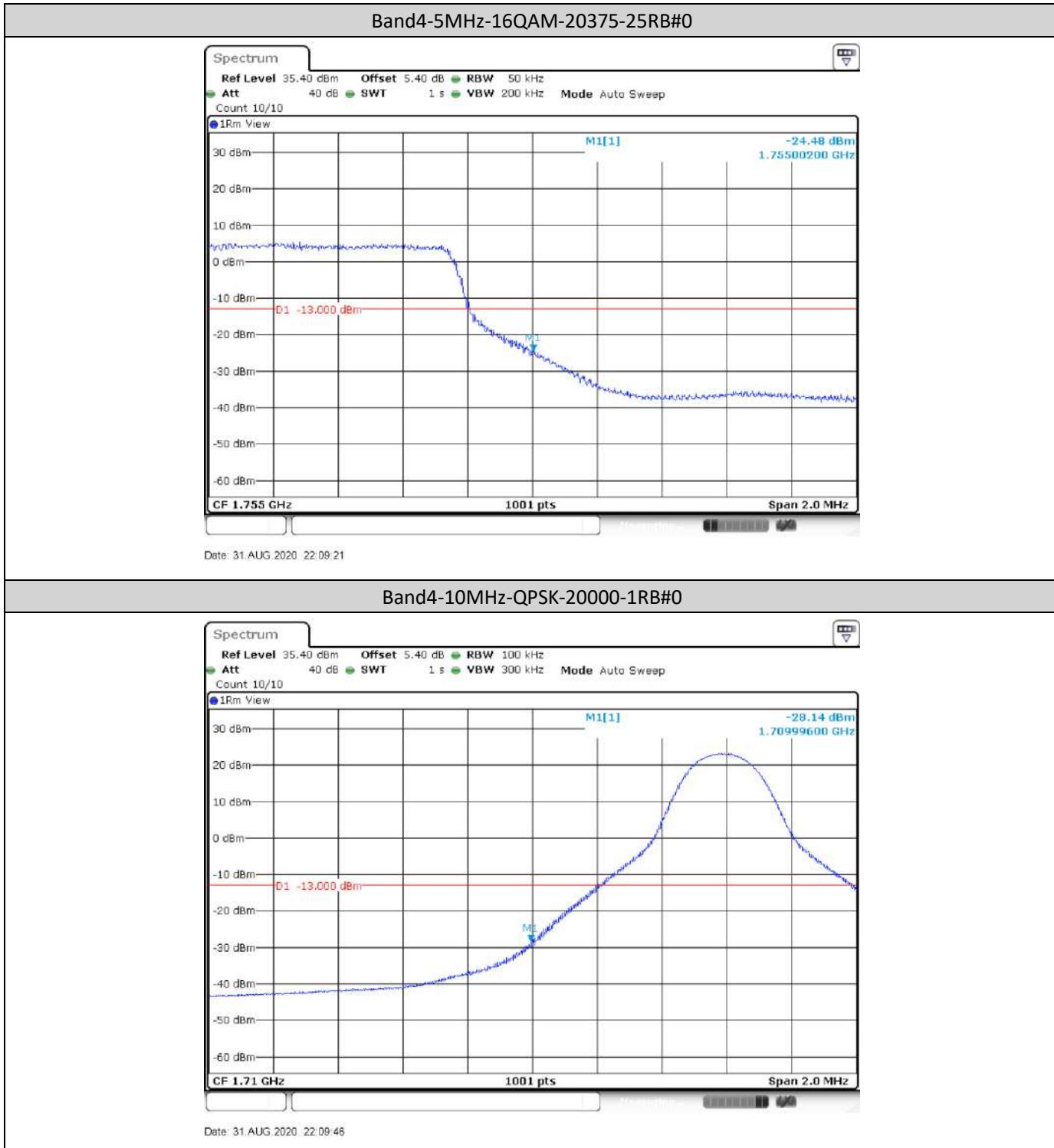
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

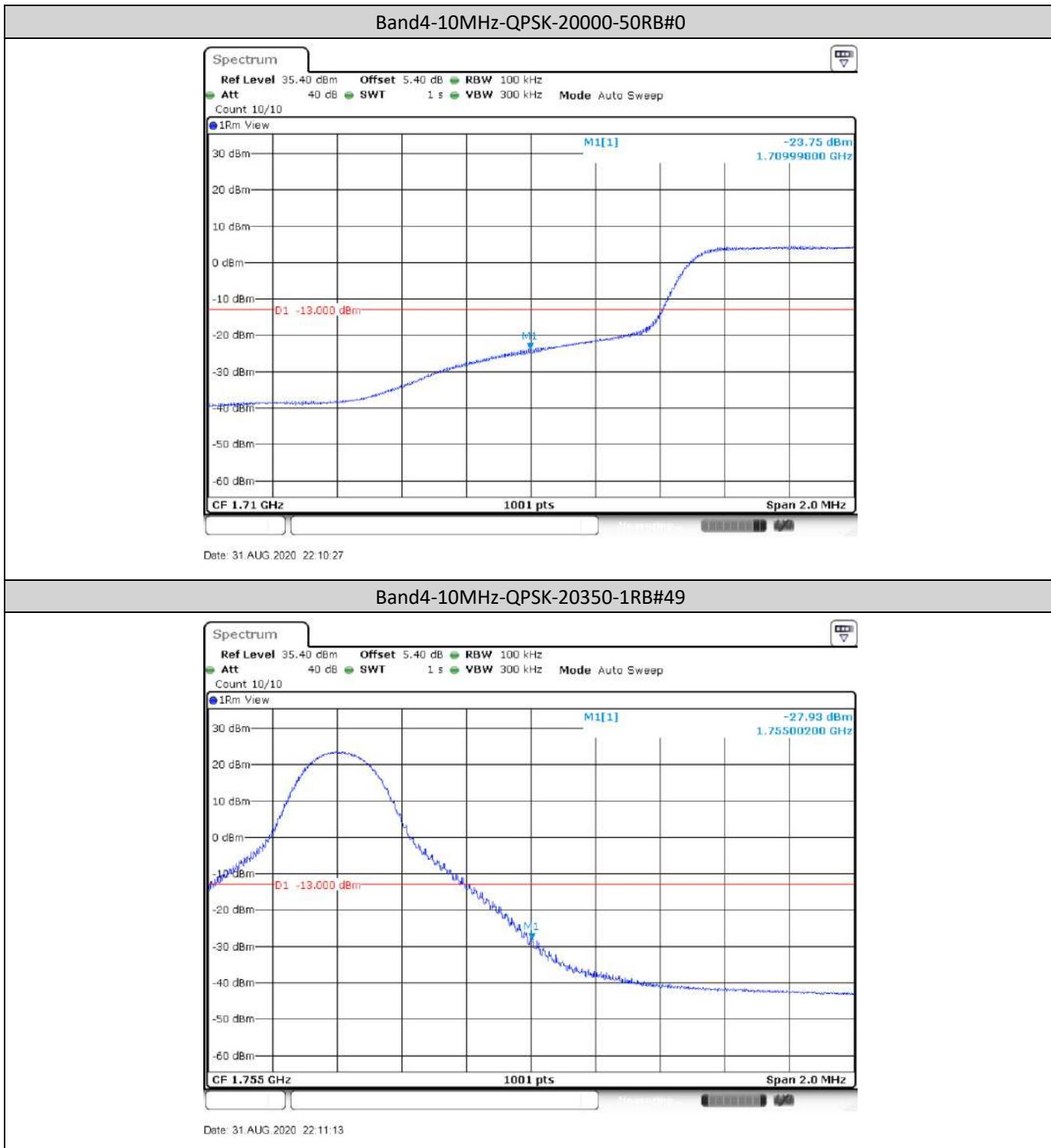


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com



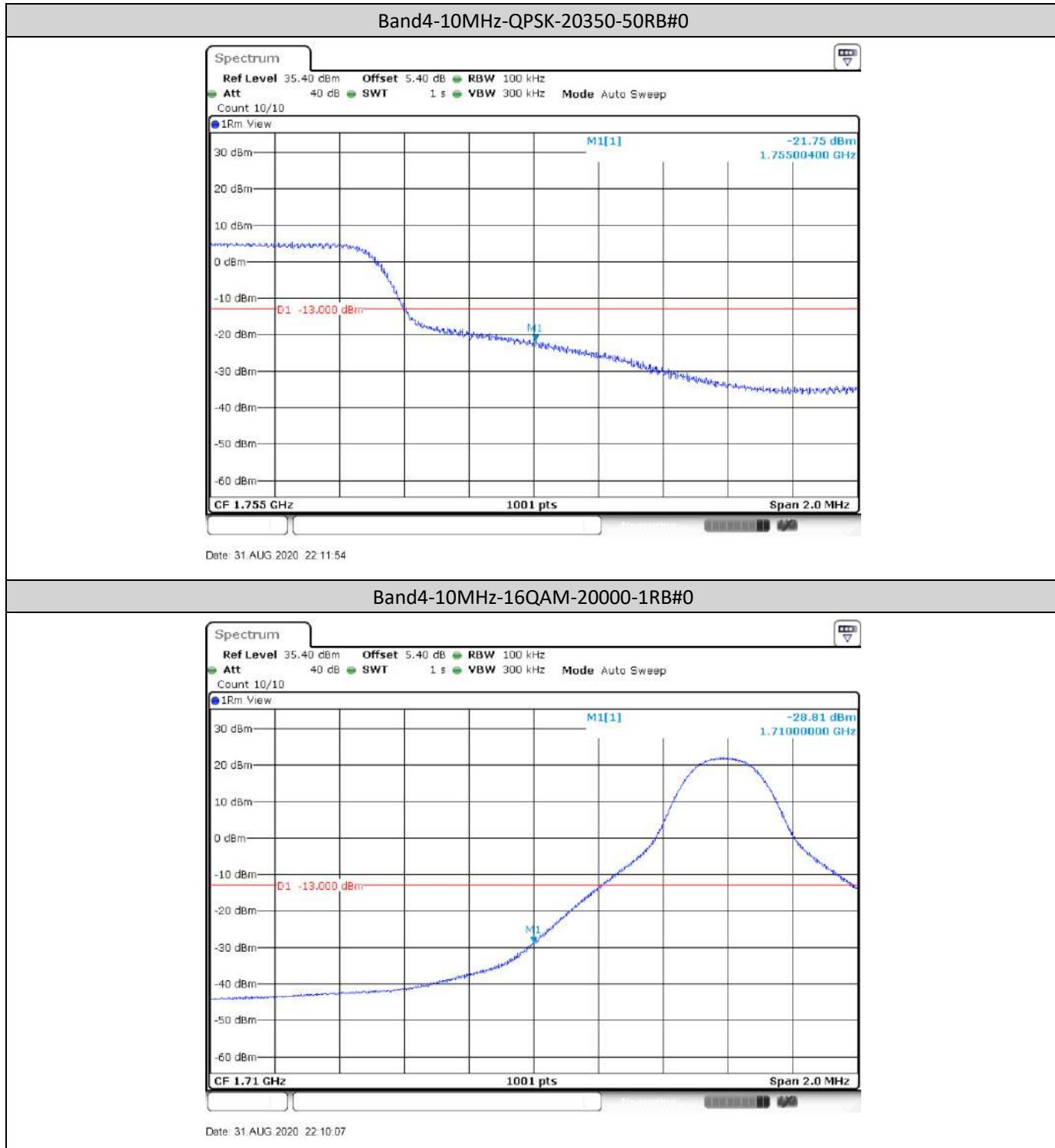
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

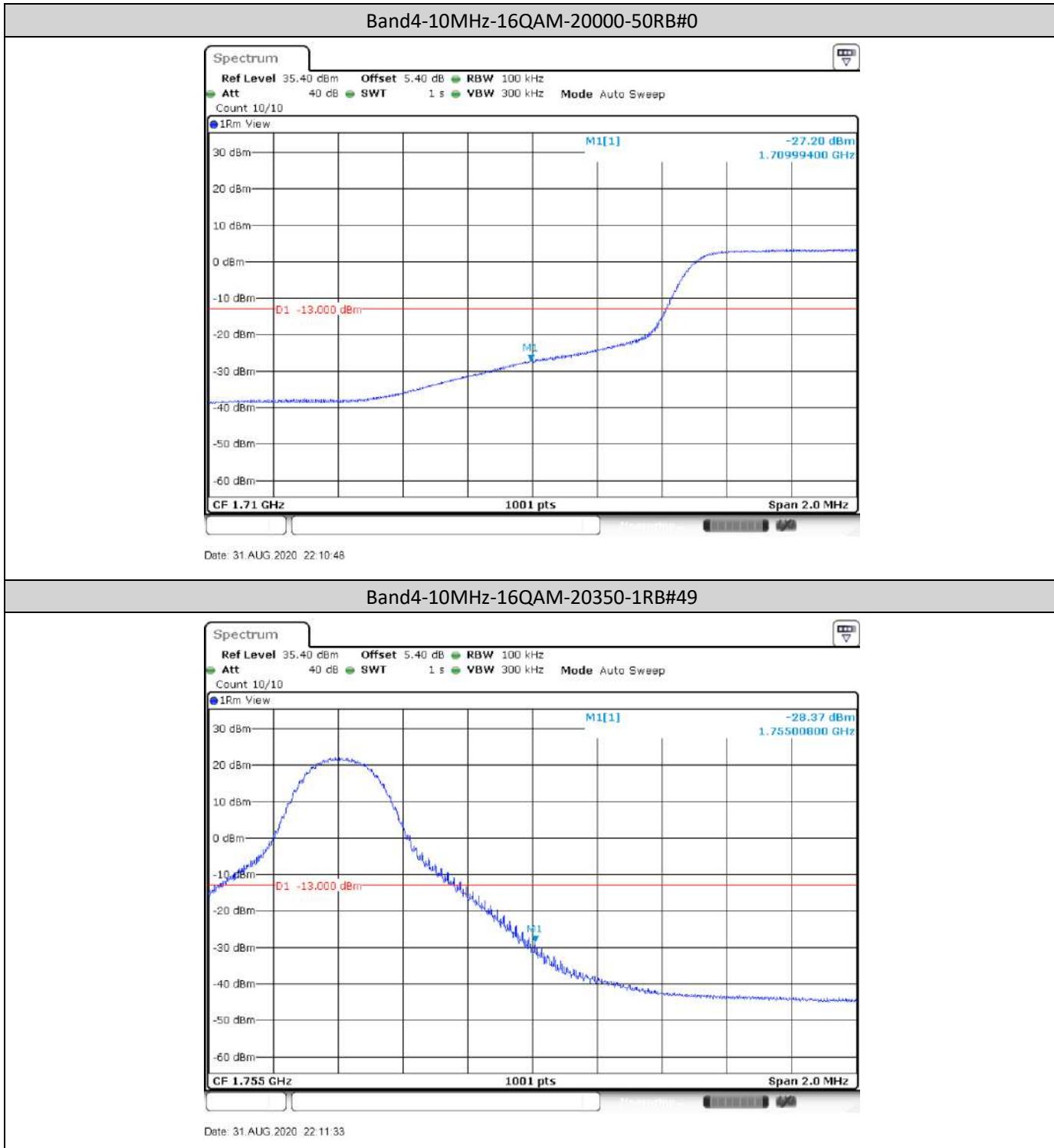


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com

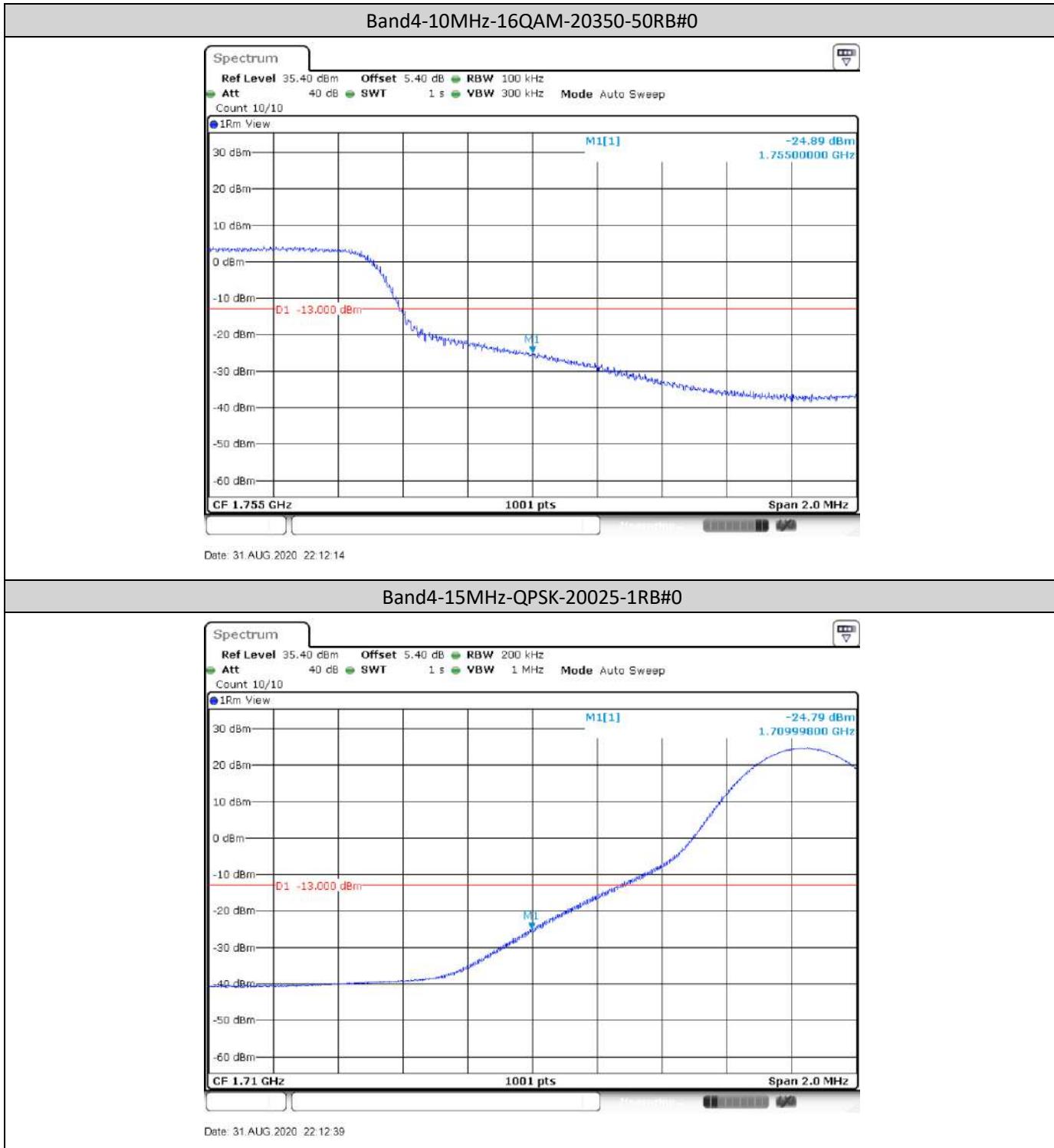


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com



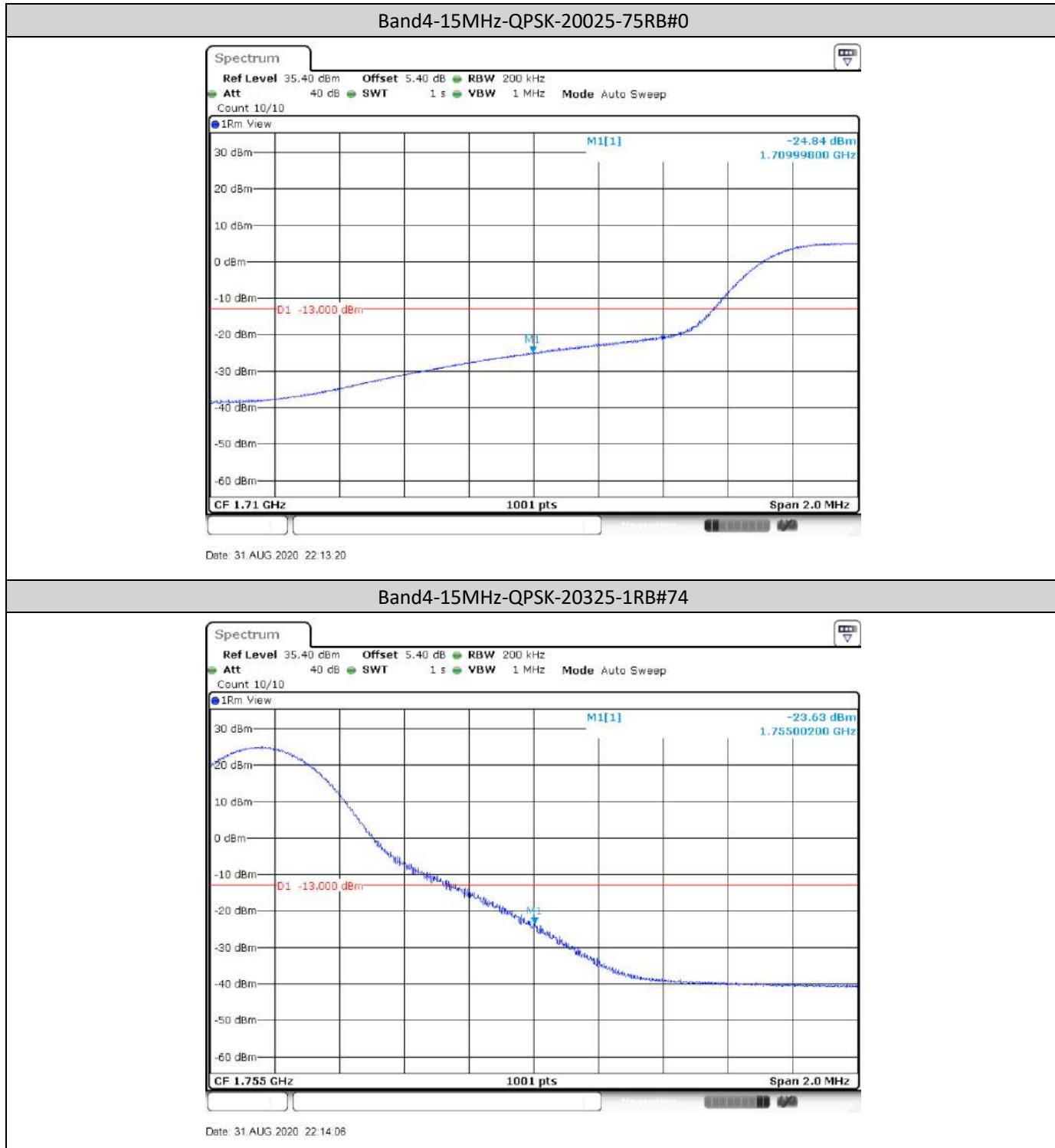
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

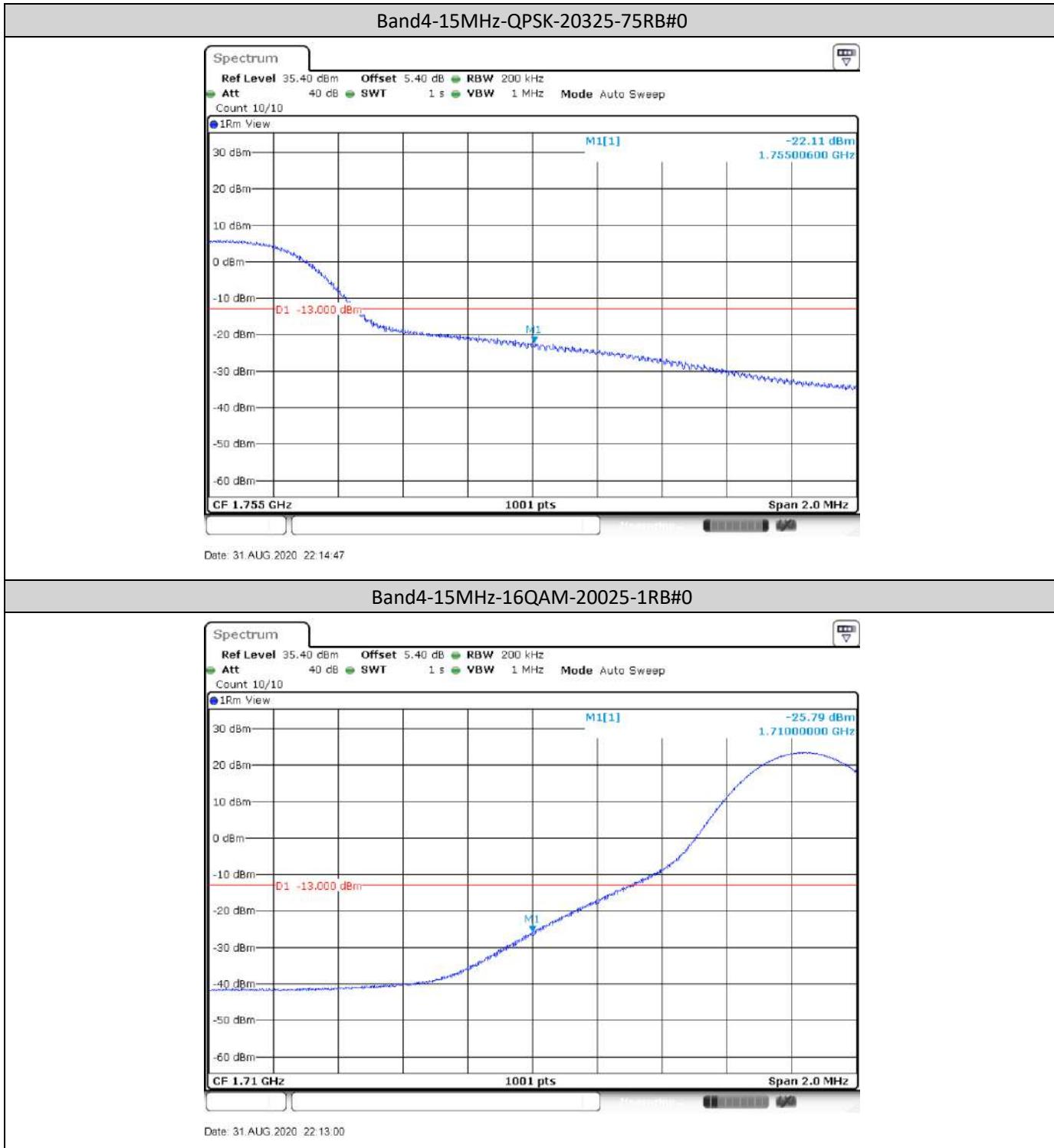


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com



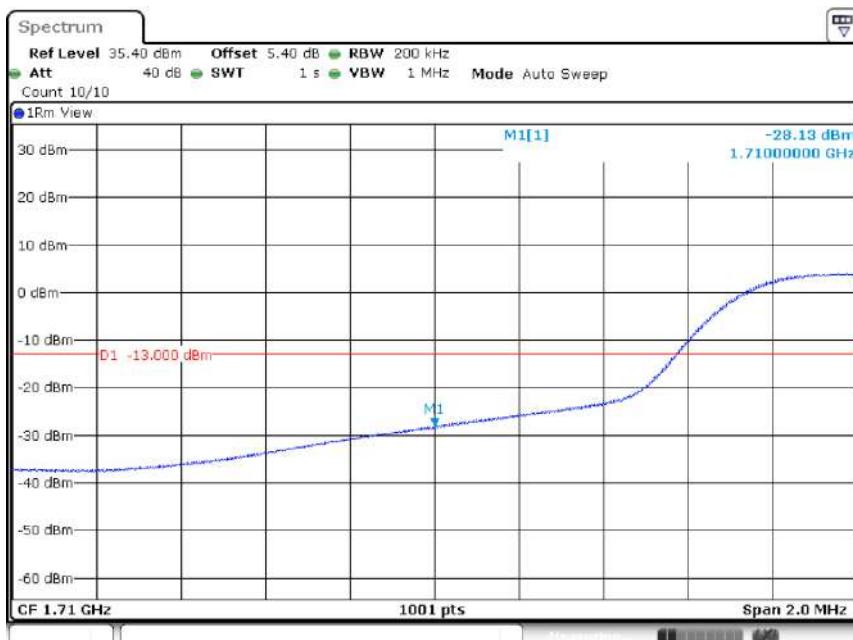
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



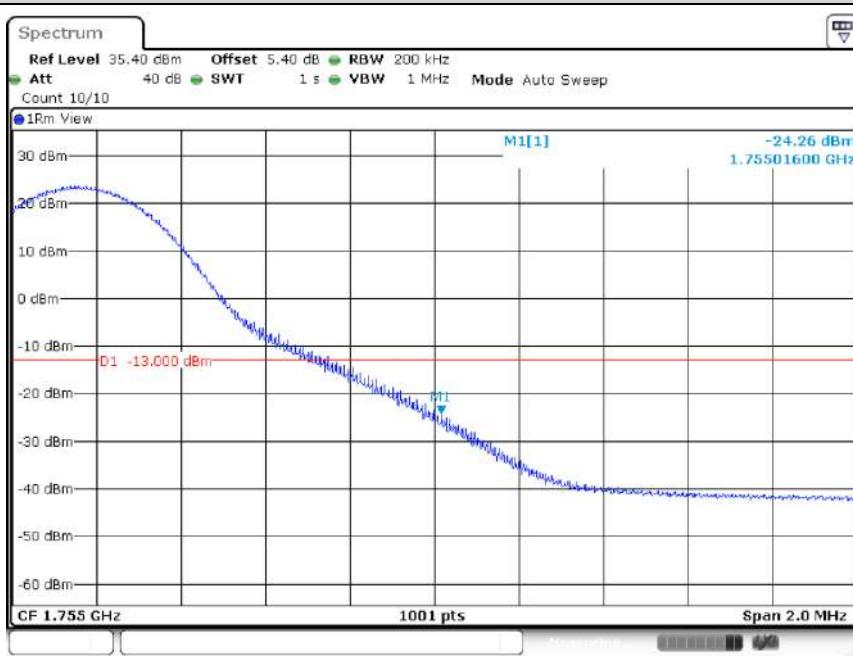
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com

## Band4-15MHz-16QAM-20025-75RB#0



Date: 31 AUG 2020 22:13:41

## Band4-15MHz-16QAM-20325-1RB#74



Date: 31 AUG 2020 22:14:26

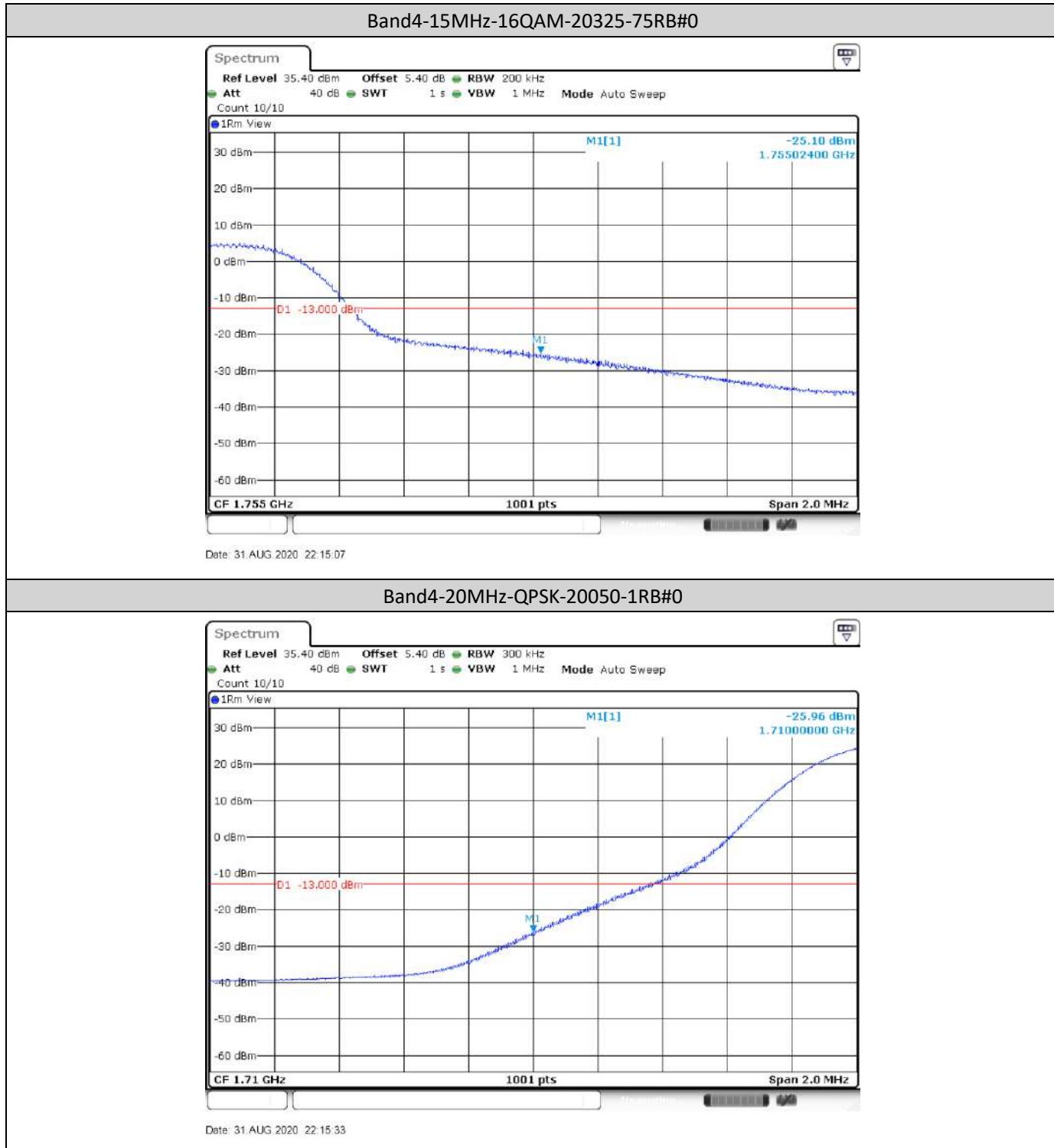
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

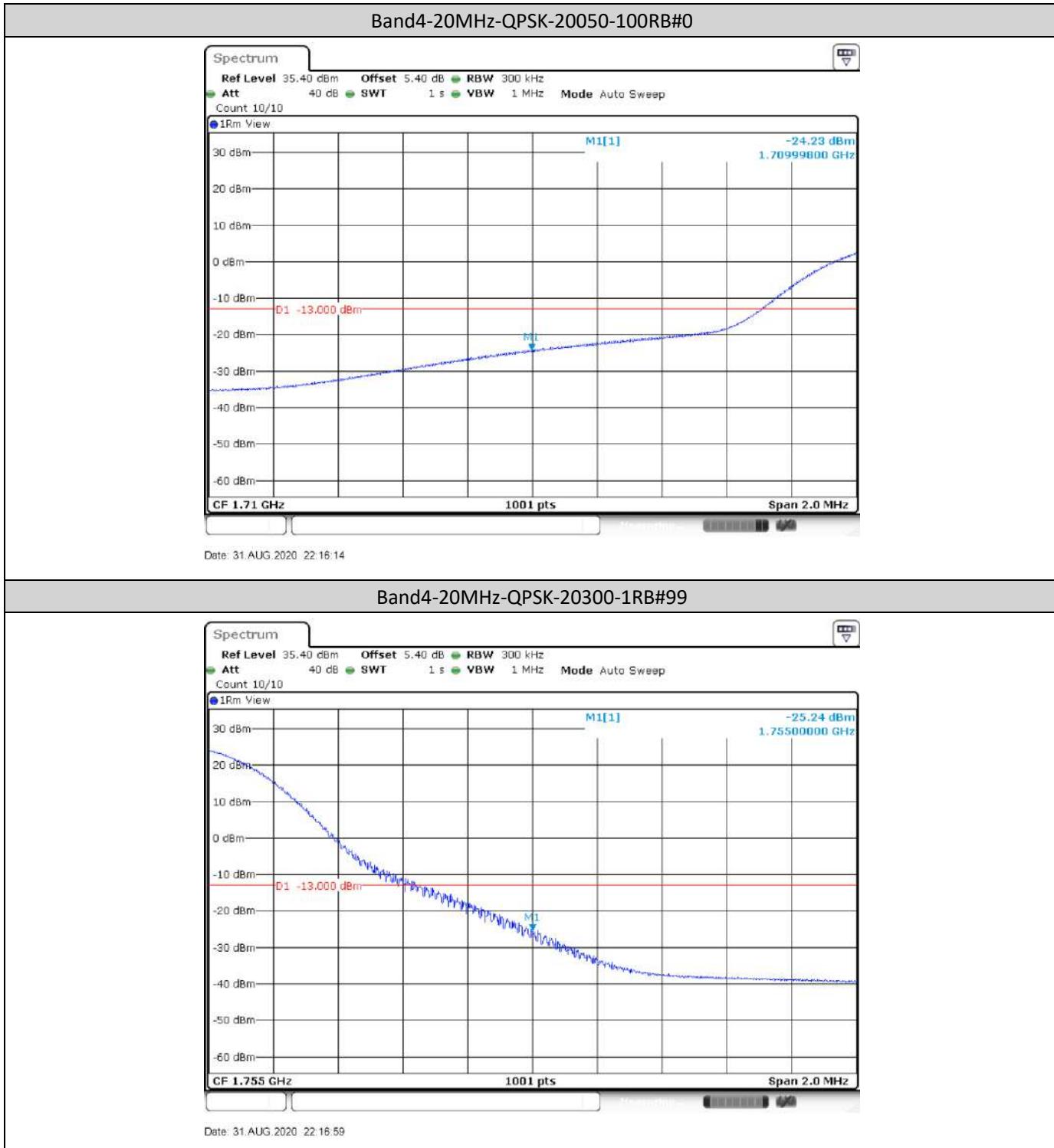


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

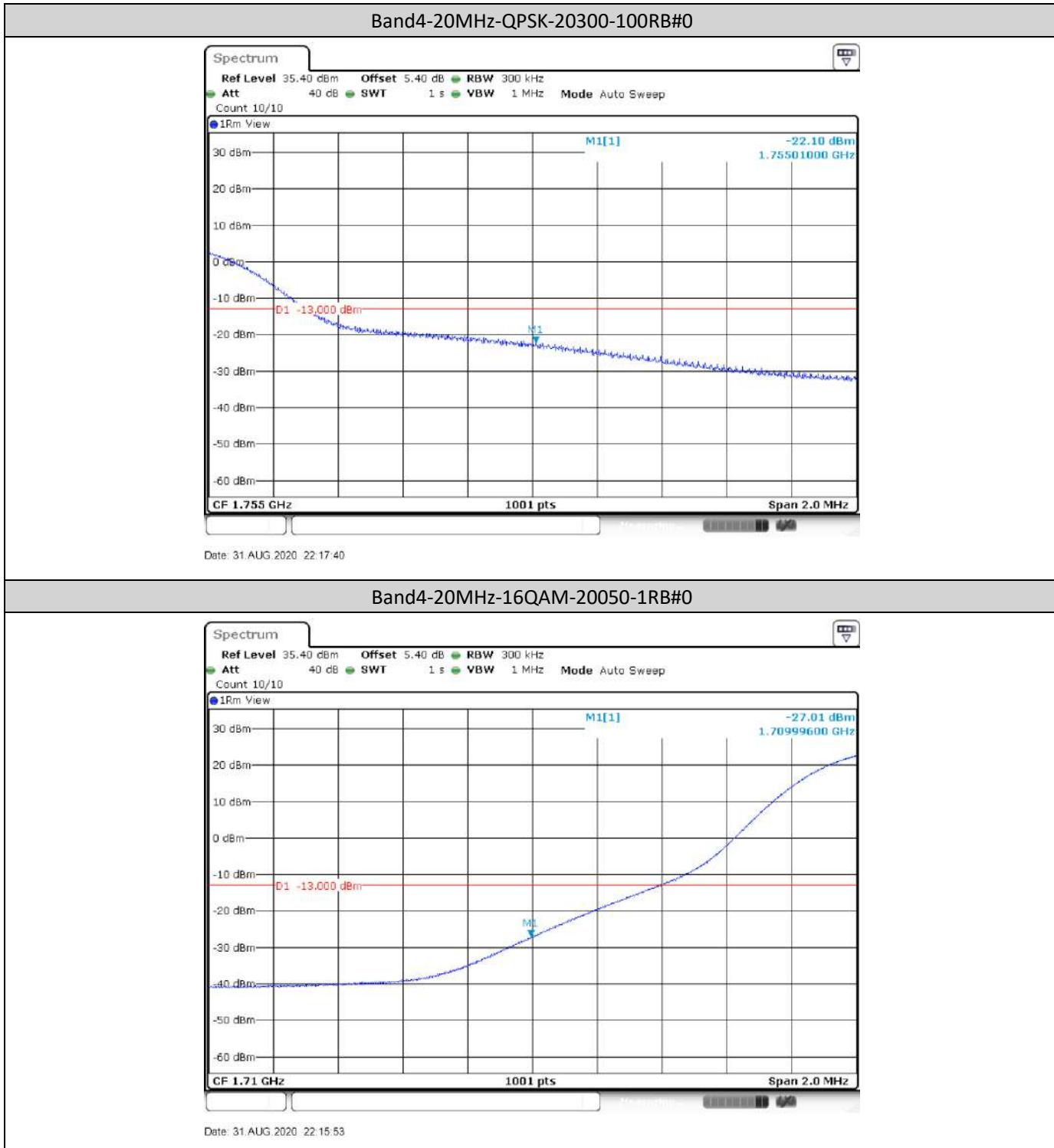


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com

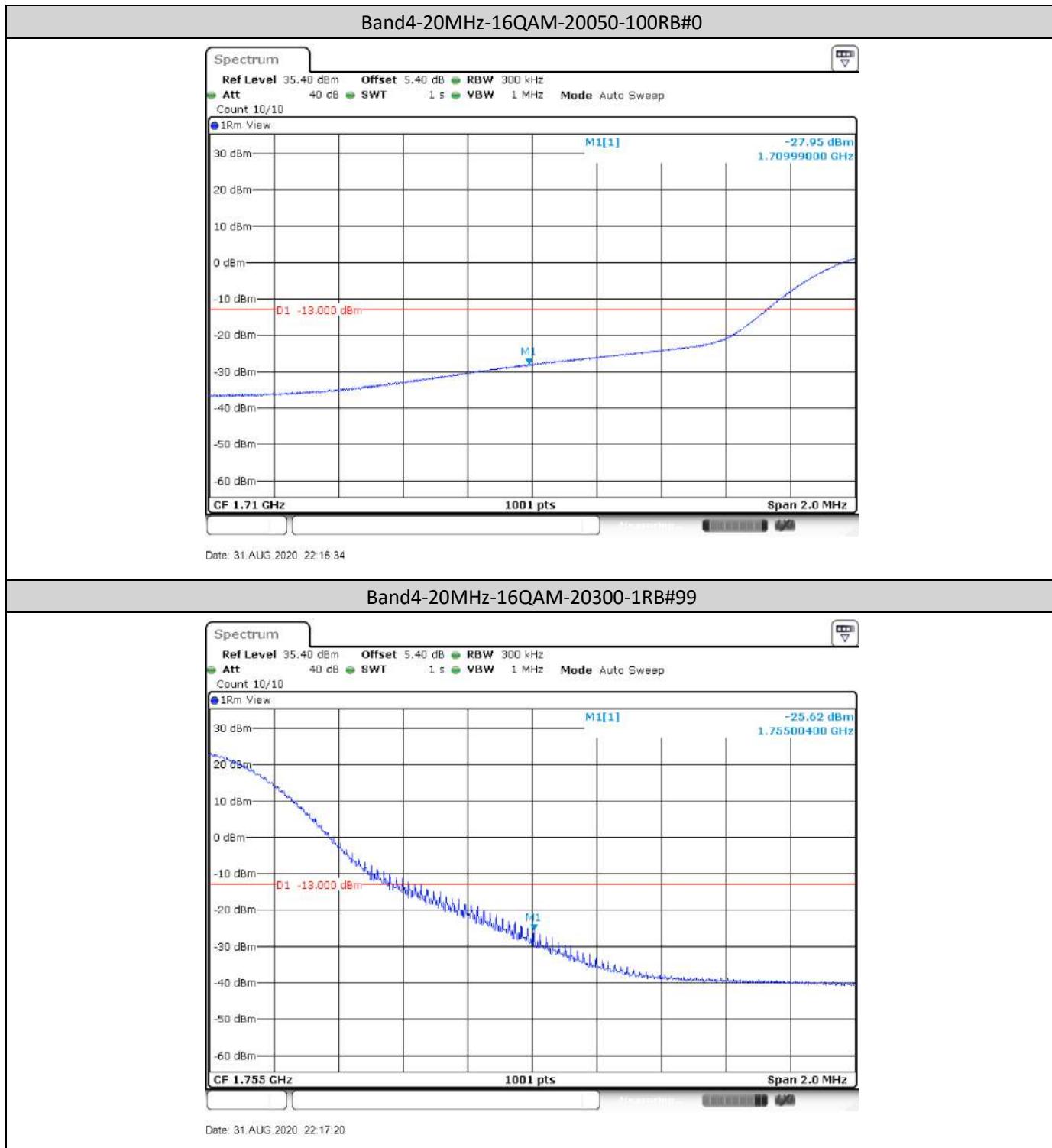


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com

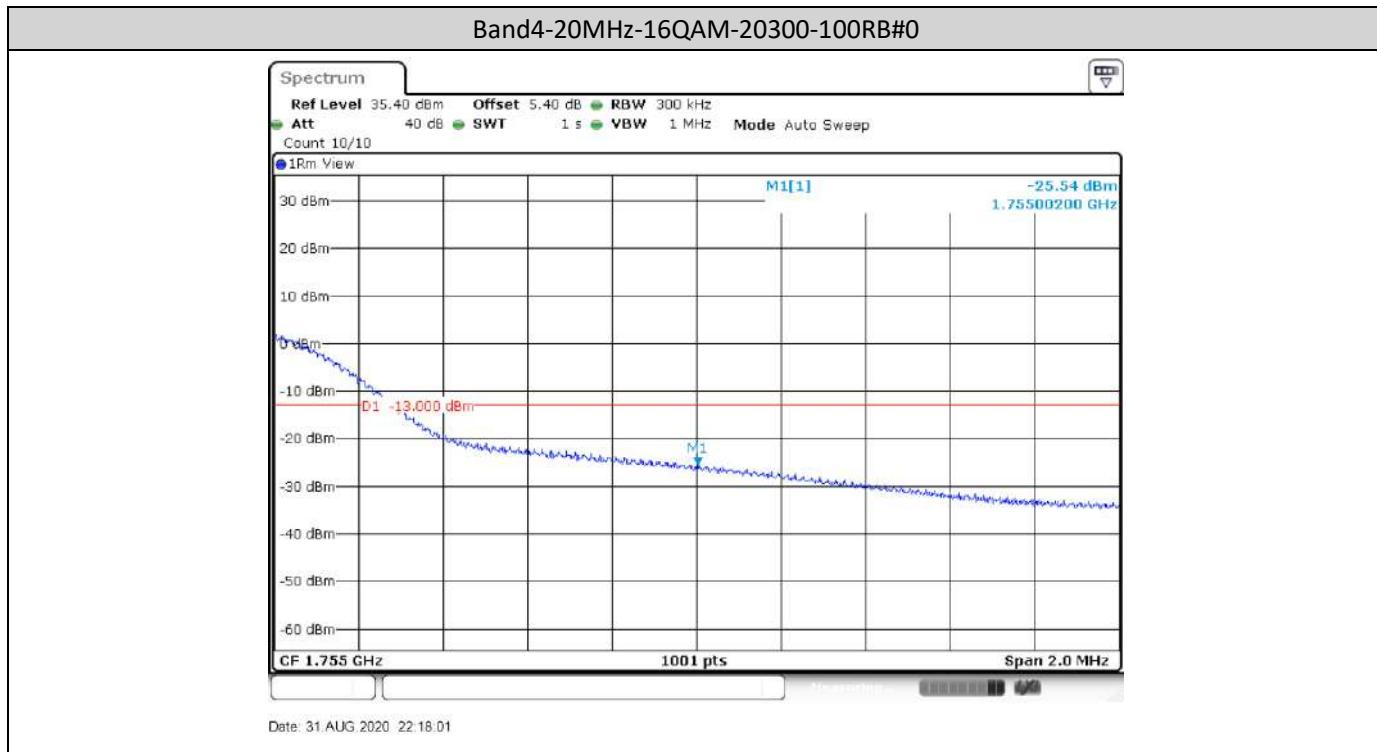


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
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 <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](mailto:CN.Doccheck@sgs.com)



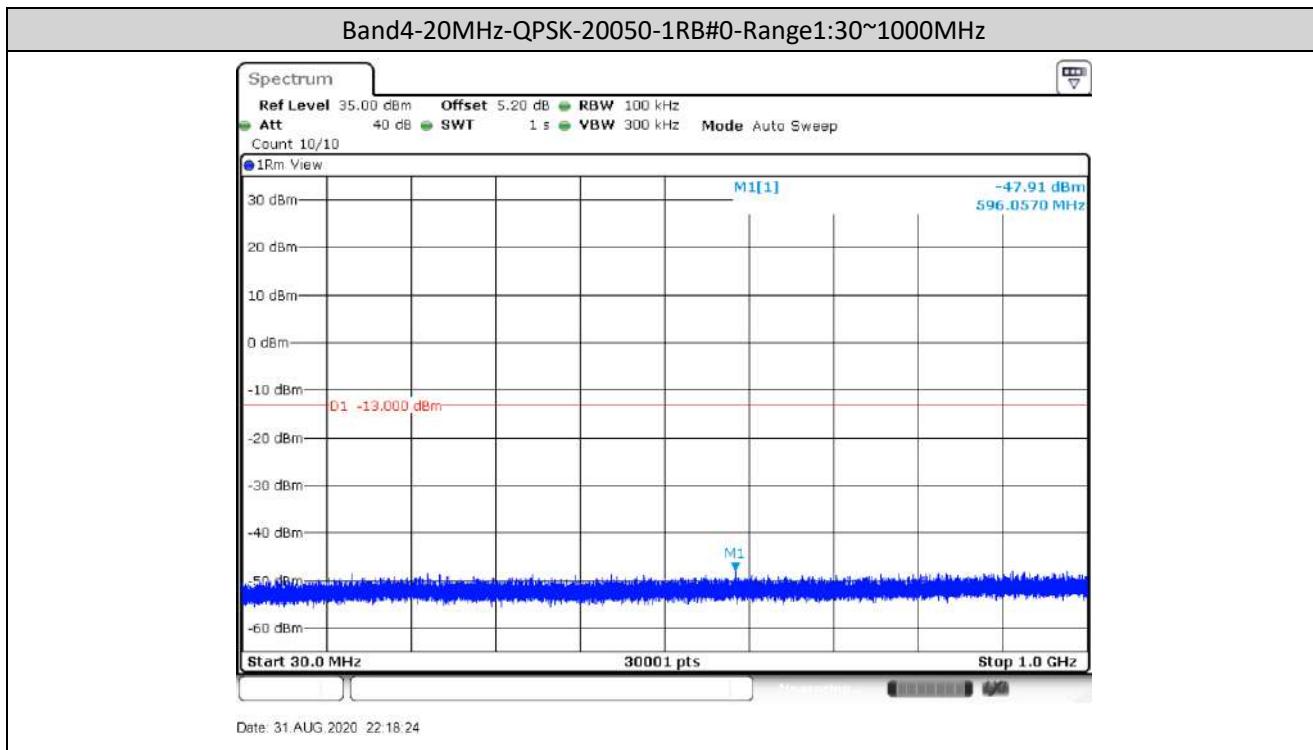
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< \text{RBW}/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / \text{RBW})$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



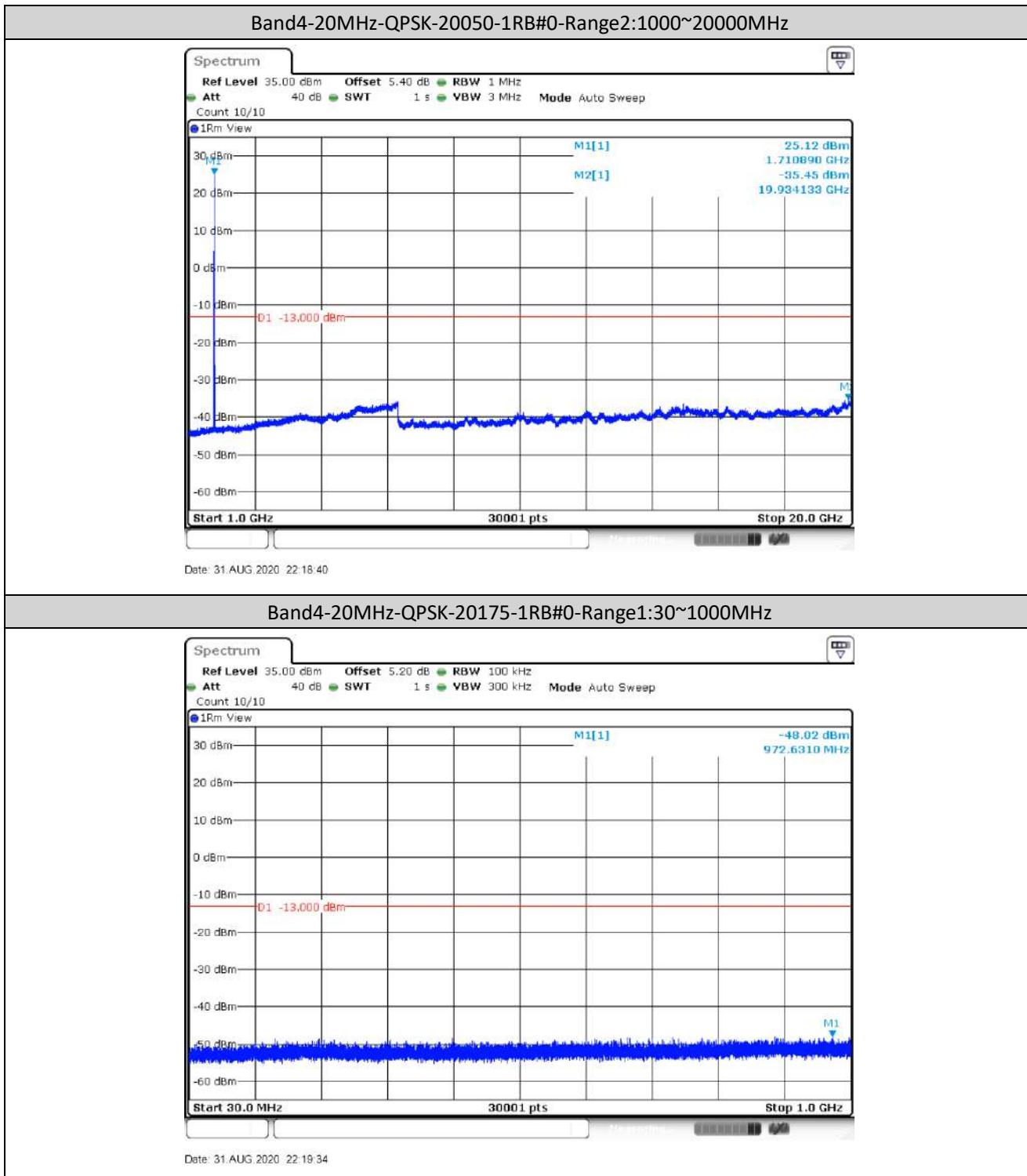
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057

t (86-755) 26012053 f (86-755) 26710594 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



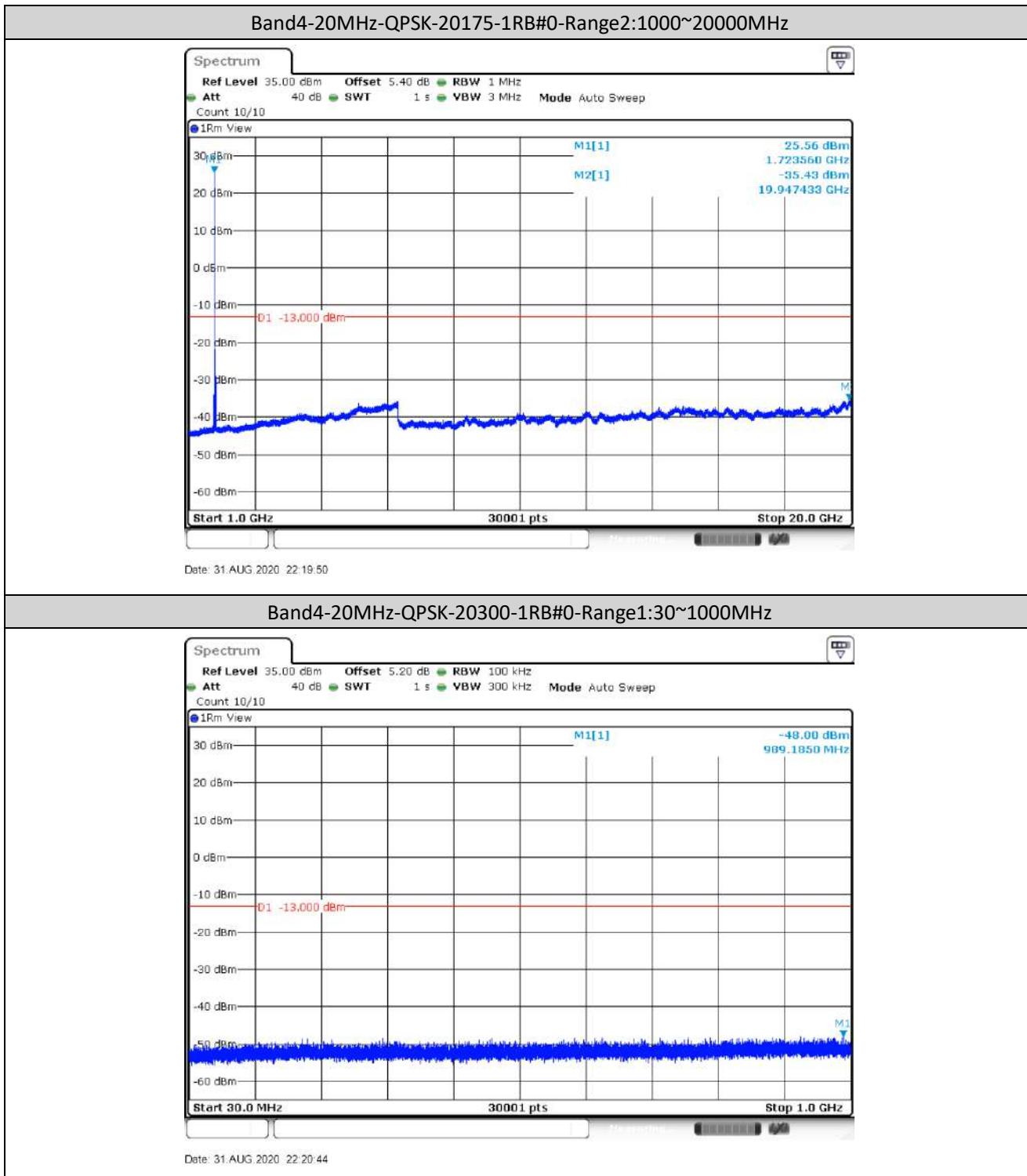
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



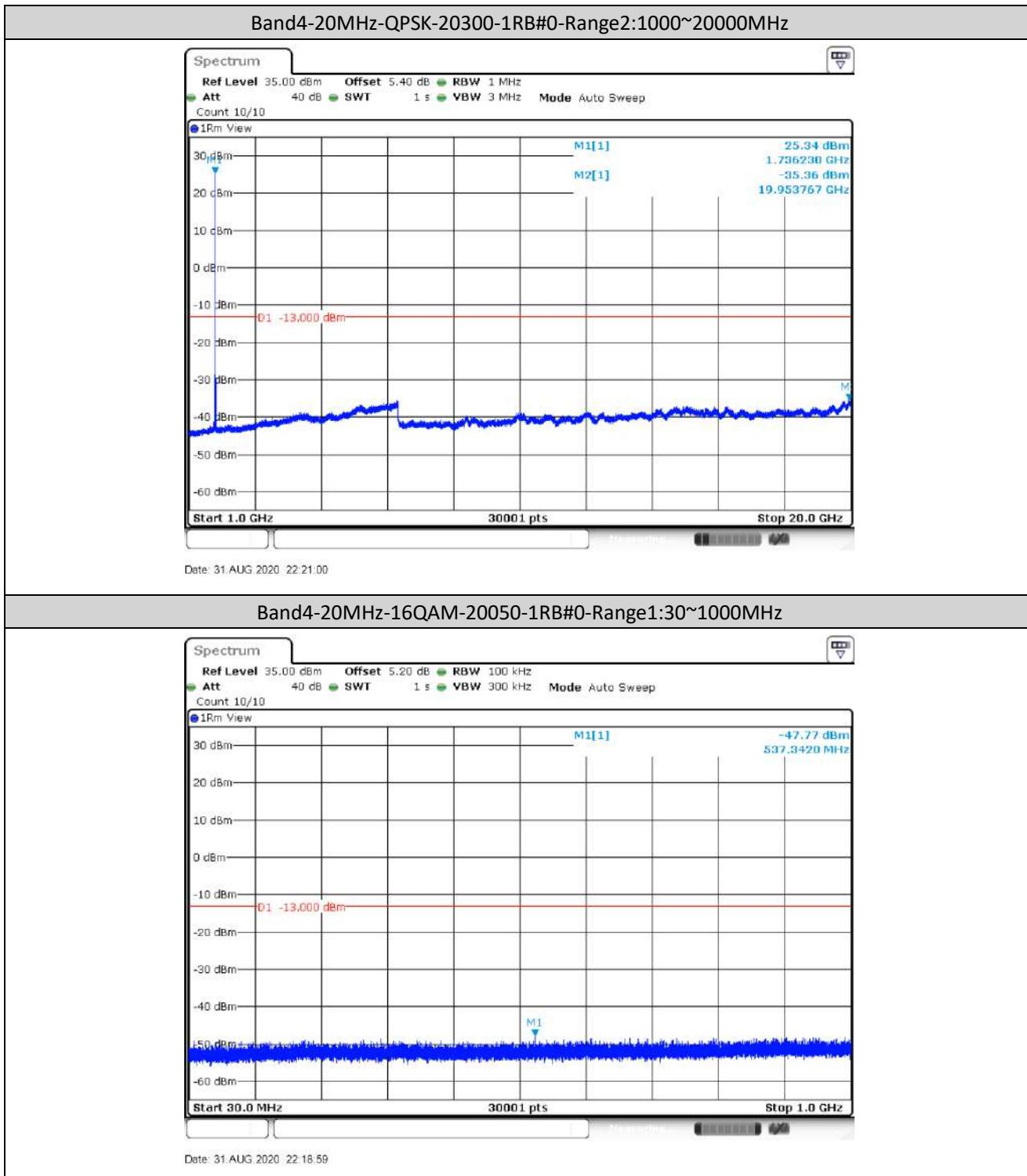
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057

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



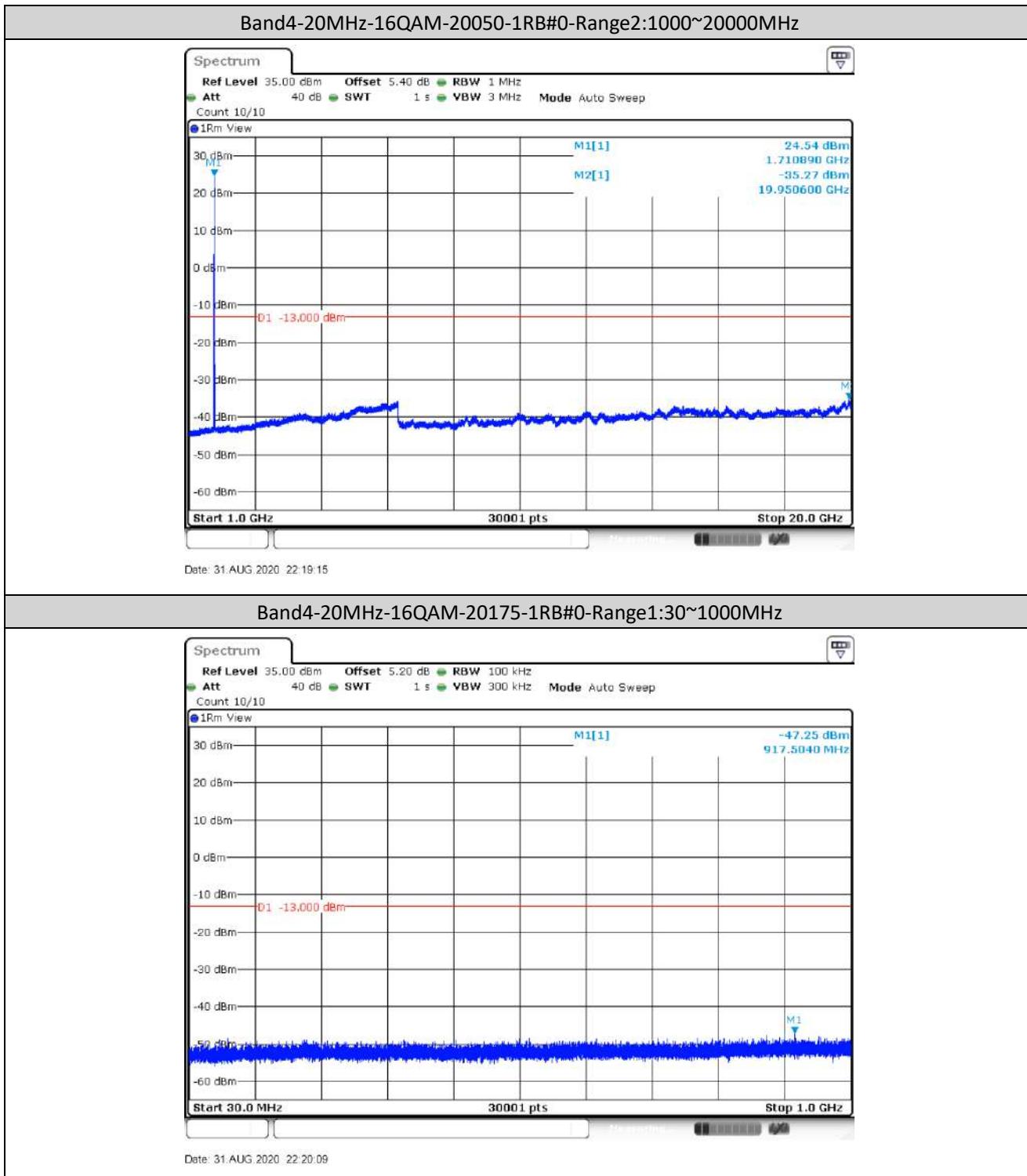
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

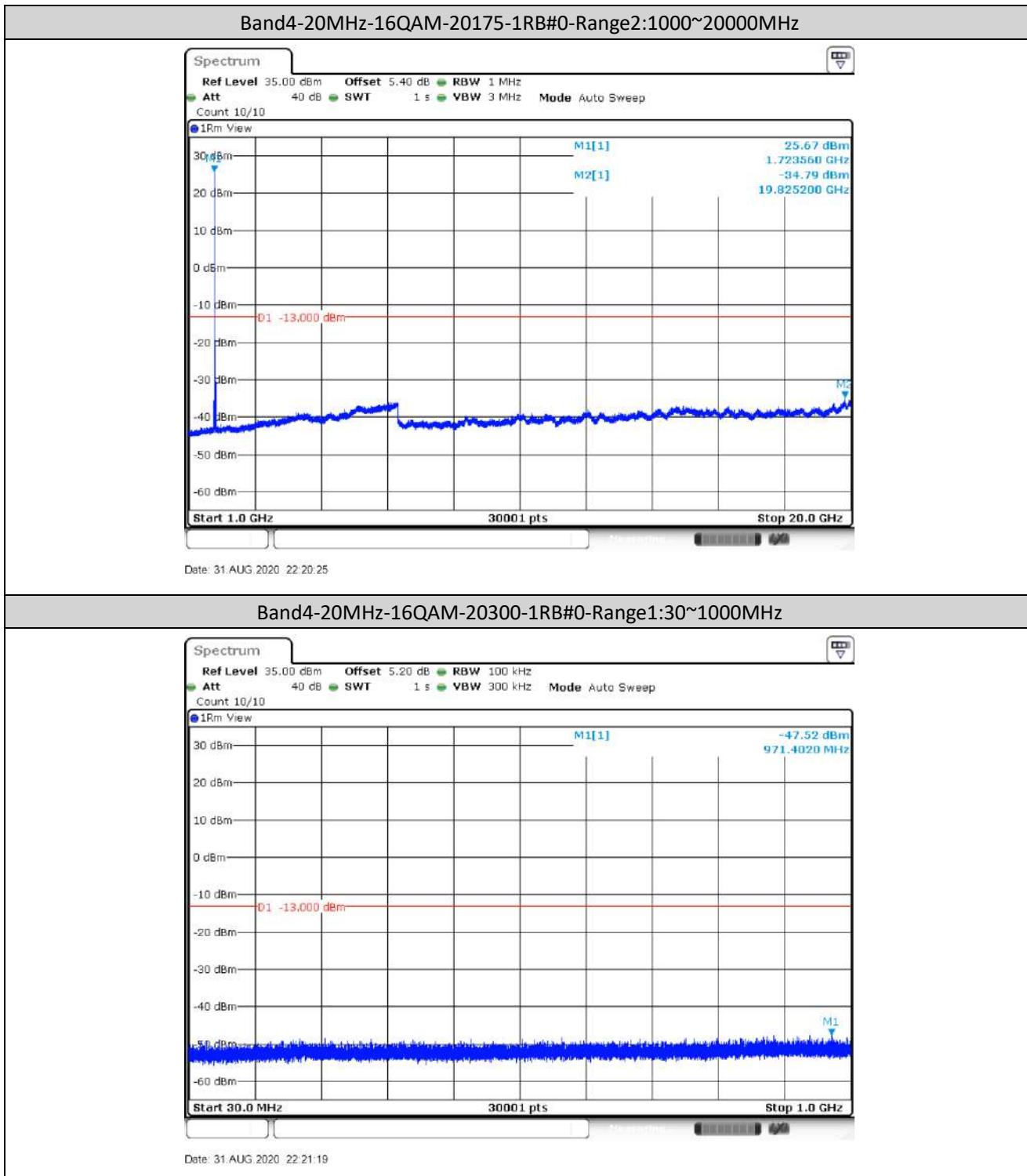


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

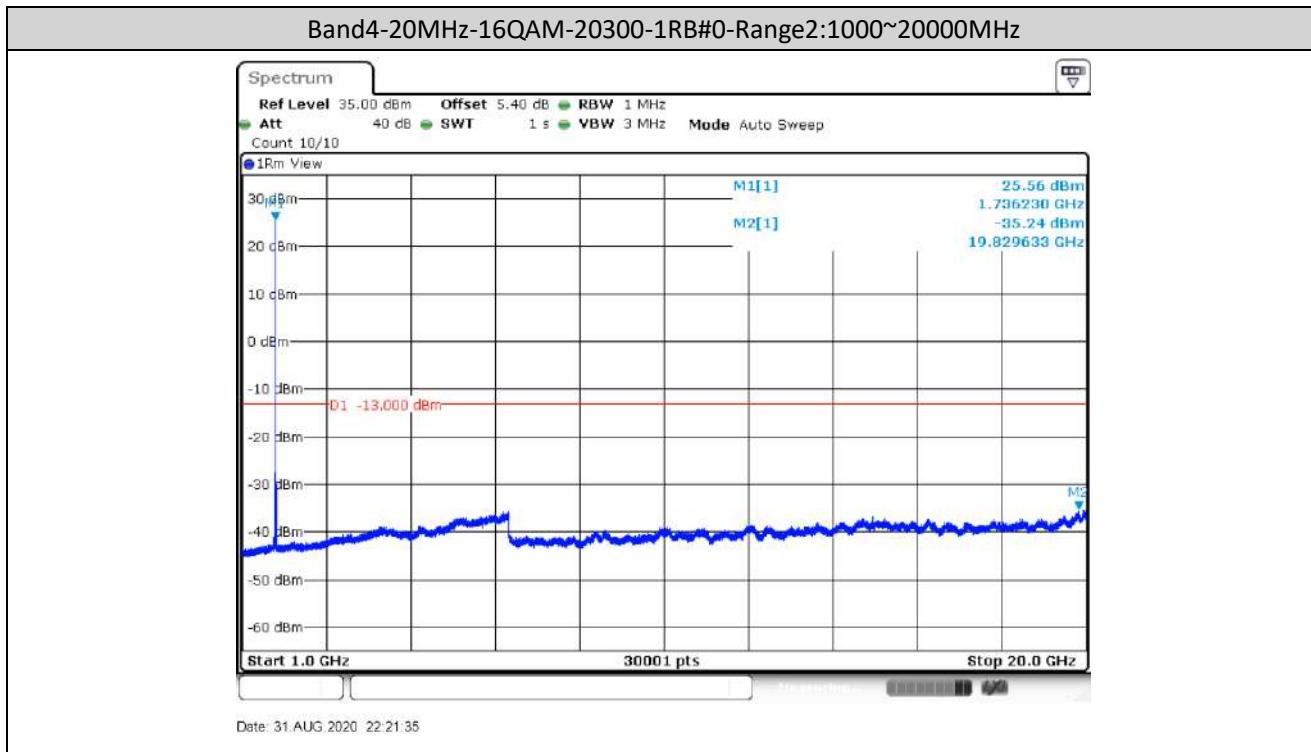


SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057  
中国·深圳·科技园中区M-10栋一号厂房  
邮编: 518057  
t (86-755) 26012053 f (86-755) 26710594  
www.sgsgroup.com.cn  
sgs.china@sgs.com



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 <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](mailto:CN_Doccheck@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 <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](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 20MHz

#### 7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 112.1146        | -65.61      | -13.00           | 52.61       | 185         | 174       | Vertical     |
| 2698.3397       | -36.75      | -13.00           | 23.75       | 196         | 52        | Vertical     |
| 3422.5141       | -55.56      | -13.00           | 42.56       | 184         | 237       | Vertical     |
| 5133.5711       | -28.55      | -13.00           | 15.55       | 158         | 205       | Vertical     |
| 6844.1281       | -45.63      | -13.00           | 32.63       | 312         | 14        | Vertical     |
| 8555.6852       | -45.85      | -13.00           | 32.85       | 262         | 14        | Vertical     |
| 41.7376         | -64.64      | -13.00           | 51.64       | 174         | 173       | Horizontal   |
| 2696.7393       | -35.60      | -13.00           | 22.60       | 185         | 266       | Horizontal   |
| 3422.0141       | -54.30      | -13.00           | 41.30       | 199         | 62        | Horizontal   |
| 5133.0711       | -26.77      | -13.00           | 13.77       | 231         | 62        | Horizontal   |
| 6844.6282       | -47.32      | -13.00           | 34.32       | 251         | 173       | Horizontal   |
| 16390.4463      | -43.69      | -13.00           | 30.69       | 154         | 338       | Horizontal   |

#### 7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 114.8792        | -65.07      | -13.00           | 52.07       | 158         | 59        | Vertical     |
| 2701.1402       | -36.70      | -13.00           | 23.70       | 156         | 106       | Vertical     |
| 5171.0724       | -30.36      | -13.00           | 17.36       | 196         | 9         | Vertical     |
| 6894.1298       | -46.03      | -13.00           | 33.03       | 213         | 59        | Vertical     |
| 8618.1873       | -48.23      | -13.00           | 35.23       | 262         | 59        | Vertical     |
| 17989.9997      | -39.96      | -13.00           | 26.96       | 274         | 9         | Vertical     |
| 39.4095         | -64.54      | -13.00           | 51.54       | 184         | 209       | Horizontal   |
| 229.6360        | -69.09      | -13.00           | 56.09       | 174         | 240       | Horizontal   |
| 2702.7405       | -35.43      | -13.00           | 22.43       | 199         | 232       | Horizontal   |
| 5170.5724       | -28.18      | -13.00           | 15.18       | 213         | 77        | Horizontal   |
| 6894.6298       | -48.08      | -13.00           | 35.08       | 251         | 209       | Horizontal   |
| 16386.4462      | -43.44      | -13.00           | 30.44       | 164         | 310       | Horizontal   |

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](mailto:CN.Doccheck@sgs.com)



No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

### 7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 111.4356        | -65.24      | -13.00           | 52.24       | 185         | 207       | Vertical     |
| 441.8341        | -66.97      | -13.00           | 53.97       | 196         | 360       | Vertical     |
| 2703.1406       | -36.82      | -13.00           | 23.82       | 231         | 220       | Vertical     |
| 5208.0736       | -36.63      | -13.00           | 23.63       | 252         | 256       | Vertical     |
| 6944.1315       | -48.19      | -13.00           | 35.19       | 216         | 38        | Vertical     |
| 17997.9999      | -39.99      | -13.00           | 26.99       | 145         | 174       | Vertical     |
| 44.7447         | -64.38      | -13.00           | 51.38       | 158         | 193       | Horizontal   |
| 224.2037        | -68.49      | -13.00           | 55.49       | 231         | 360       | Horizontal   |
| 2699.1398       | -35.60      | -13.00           | 22.60       | 262         | 229       | Horizontal   |
| 5208.0736       | -35.88      | -13.00           | 22.88       | 291         | 82        | Horizontal   |
| 6944.1315       | -49.78      | -13.00           | 36.78       | 154         | 231       | Horizontal   |
| 16393.9465      | -43.94      | -13.00           | 30.94       | 194         | 334       | Horizontal   |

**Remark:**

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had 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-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](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 | (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | VL            | NT               | 0.40           | 0.000233        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | VN            | NT               | 1.10           | 0.000640        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | VH            | NT               | 3.20           | 0.001860        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VL            | NT               | -0.40          | -0.000231       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VN            | NT               | 1.30           | 0.000750        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0      | VH            | NT               | 1.20           | 0.000693        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0      | VL            | NT               | -2.00          | -0.001146       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0      | VN            | NT               | -3.30          | -0.001891       | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0      | VH            | NT               | -2.80          | -0.001605       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0      | VL            | NT               | 2.00           | 0.001163        | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0      | VN            | NT               | 2.70           | 0.001570        | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0      | VH            | NT               | 1.60           | 0.000930        | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0      | VL            | NT               | -0.10          | -0.000058       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0      | VN            | NT               | -0.30          | -0.000173       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0      | VH            | NT               | 0.80           | 0.000462        | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0      | VL            | NT               | -2.80          | -0.001605       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0      | VN            | NT               | -2.60          | -0.001490       | ±2.5        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0      | VH            | NT               | -2.40          | -0.001375       | ±2.5        | PASS    |

### 8.2. Frequency Vs Temperature

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | -30              | 1.30           | 0.000756        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | -20              | 1.40           | 0.000814        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | -10              | 0.80           | 0.000465        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 0                | 1.70           | 0.000988        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 10               | 1.50           | 0.000872        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 20               | 1.00           | 0.000581        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 30               | 1.80           | 0.001047        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 40               | 1.30           | 0.000756        | ±2.5        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 50               | 1.70           | 0.000988        | ±2.5        | 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-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](mailto:CN_Doccheck@sgs.com)



| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



|       |       |       |       |         |    |     |       |           |      |      |
|-------|-------|-------|-------|---------|----|-----|-------|-----------|------|------|
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | -30 | 0.60  | 0.000346  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | -20 | 0.80  | 0.000462  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | -10 | 0.40  | 0.000231  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 0   | -1.00 | -0.000577 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 10  | 1.60  | 0.000924  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 20  | 0.10  | 0.000058  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 30  | 0.00  | 0.000000  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 40  | 0.40  | 0.000231  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 50  | -0.40 | -0.000231 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | -30 | -1.90 | -0.001089 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | -20 | -2.30 | -0.001318 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | -10 | -3.80 | -0.002178 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 0   | -2.30 | -0.001318 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 10  | -1.80 | -0.001032 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 20  | -3.00 | -0.001719 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 30  | -1.80 | -0.001032 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 40  | -0.90 | -0.000516 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 50  | -2.20 | -0.001261 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | -30 | 2.10  | 0.001221  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | -20 | -0.10 | -0.000058 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | -10 | 1.50  | 0.000872  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 0   | 1.50  | 0.000872  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 10  | 2.10  | 0.001221  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 20  | 2.20  | 0.001279  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 30  | 3.40  | 0.001977  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 40  | 0.90  | 0.000523  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 50  | 2.90  | 0.001686  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | -30 | -0.60 | -0.000346 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | -20 | 0.30  | 0.000173  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | -10 | 1.60  | 0.000924  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 0   | 0.50  | 0.000289  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 10  | 0.50  | 0.000289  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 20  | 1.60  | 0.000924  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 30  | 0.60  | 0.000346  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 40  | -0.10 | -0.000058 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 50  | 0.50  | 0.000289  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | -30 | -2.90 | -0.001662 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | -20 | -1.50 | -0.000860 | ±2.5 | 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-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](mailto:CN_Doccheck@sgs.com)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
SGS-CSTC Standards Technical Services Co., Ltd. | Shenzhen Branch | No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 | (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | -10 | -3.30 | -0.001891 | ±2.5 | PASS |
|-------|-------|-------|-------|---------|----|-----|-------|-----------|------|------|
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 0   | -3.70 | -0.002120 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 10  | -2.70 | -0.001547 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 20  | -1.40 | -0.000802 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 30  | -3.10 | -0.001777 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 40  | -2.70 | -0.001547 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 50  | -2.60 | -0.001490 | ±2.5 | 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-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](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | t (86-755) 26012053 f (86-755) 26710594 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | t (86-755) 26012053 f (86-755) 26710594 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)