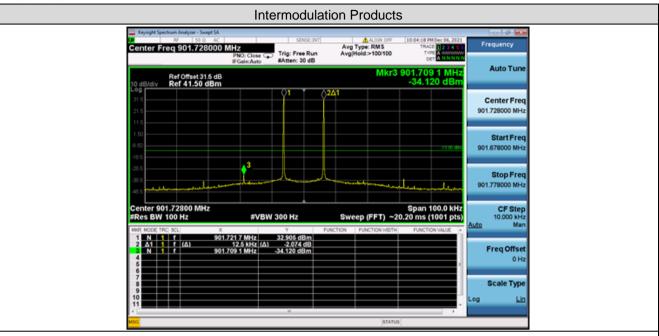




1 of 4

Appendix H - Noise

Test Data:



Remark:

According to the declaration from the application, the single antenna gain should not exceed 0dBi, the Directional gain = G(ANT) + 10*log(NANT) dBi = 0dBi + 10*log(1) dBi = 0dBi.

ERP = EIRP-2.15dB

The conducted max intermodulation product is -34.12dBm/300Hz = -28.89dBm/10kHz, ERP of intermodulation products is -28.89dBm/10kHz + 0dBi -2.15dB = -31.04dBm/10kHz.

Applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed the level -30dBm in 10kHz measurement bandwidth.



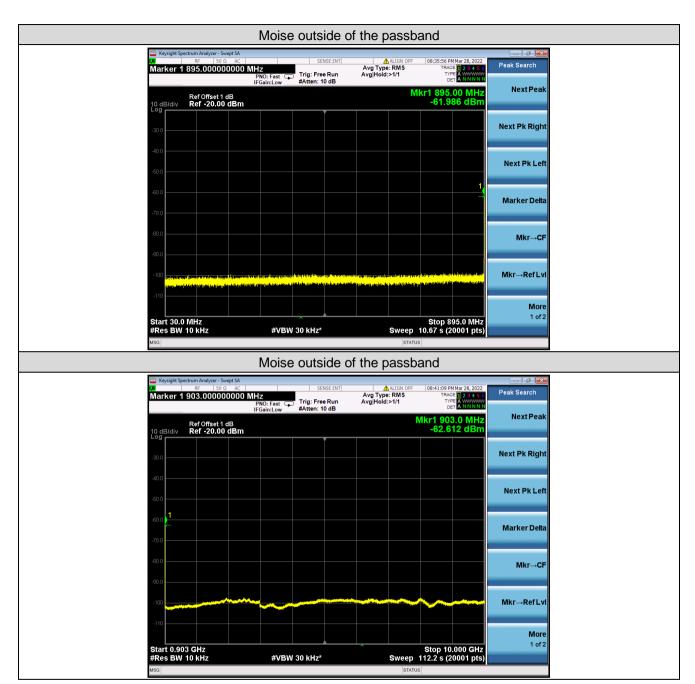
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic 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, **Certificate**, please contact us at telephone: (86-755) 8307 1443, **Certificate**, please contact us at telephone: (86-755) 8307 1443, **Certificate**, please contact us at telephone: (86-755) 8307 1443, **Certificate**, please contact us at telephone: (86-755) 8307 1443, **Certificate**, please contact us at telephone: (86-755) 8307 1443, **Certificate**, please contact us at telephone: (86-755) 8307 1443, **Certificate**, please contact us at teleph

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com









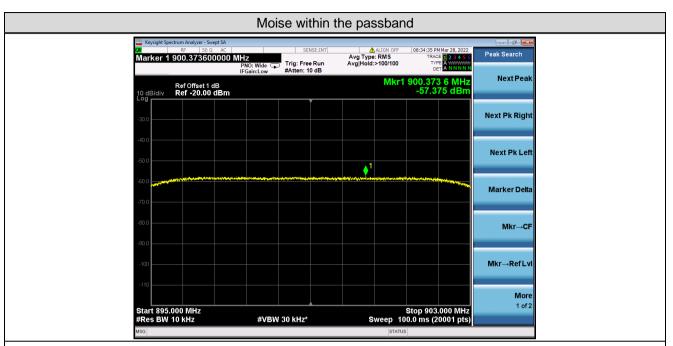
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions.aspx and for electronic format documents, subject to Terms and Conditions for Electronic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

or email: <u>CN.Doccheck@sgs.com</u> No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com







Remark:

According to the declaration from the application, the single antenna gain should not exceed 0dBi, the Directional gain = G(ANT) + 10*log(NANT) dBi = 0dBi + 10*log(1) dBi = 0dBi.

ERP = EIRP-2.15dB

The conducted max noise on spectrum more than 1MHz outside of the passband is -61.986dBm/10kHz, ERP of noise on spectrum more than 1MHz outside of the passband is -61.986dBm/10kHz + 0dBi -2.15dB = -64.136dBm/10kHz

The conducted max noise within the passband is -57.375dBm/10kHz, ERP of noise within the passband is -57.375dBm/10kHz + 0dBi -2.15dB = -59.525dBm/10kHz < -43dBm/10kHz

Applicant must use good engineering practice to make sure that the ERP of max noise on spectrum more than 1MHz outside of the passband should not exceed the level -70dBm in 10kHz measurement bandwidth.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service prints overleaf, available on request or accessible at http://www.sas.com/an/Terms-and-Conditions.asys.and, for electronic format documents of the conditions of t

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.c t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com





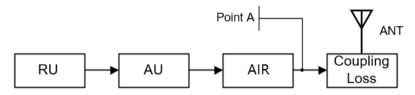


Frequency Range (MHz)	Max Noise Figure	Max Noise Figure Limit
896~902	4.38	9

ERP noise = Test results at point A + Coupling Loss + Antenna Gain.

Remark:

The noise test results in the table are measured from point A. The test results plus the coupling loss and antenna gain will meet the noise radiation requirements of the signal booster, which is that the ERP of noise should not exceed -43 dBm in 10 kHz within passband and -70 dBm in 10 kHz more than 1 MHz outside of passband. Therefore, the coupling loss in engineering practice must be greater than 20dB to eliminate the interference.



Setting details were declared by manufacture and stated in the user manual.

The test screenshots below are only to record the case without engineering practice for reference.

Noise Figure:

896MHz to 902MHz





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printer overleaf, available on request or accessible at http://www.gas.com/en/Terms-and-Conditions.aspx and, for electronic format documents subject to Terms and Conditions for Electronic Documents at http://www.gas.com/en/Terms-and-Conditions/Terms-e-Document.aspx Atention is drawn to the limitation of liability, indemnification and jurisdiction issue 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 of 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.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.c t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com