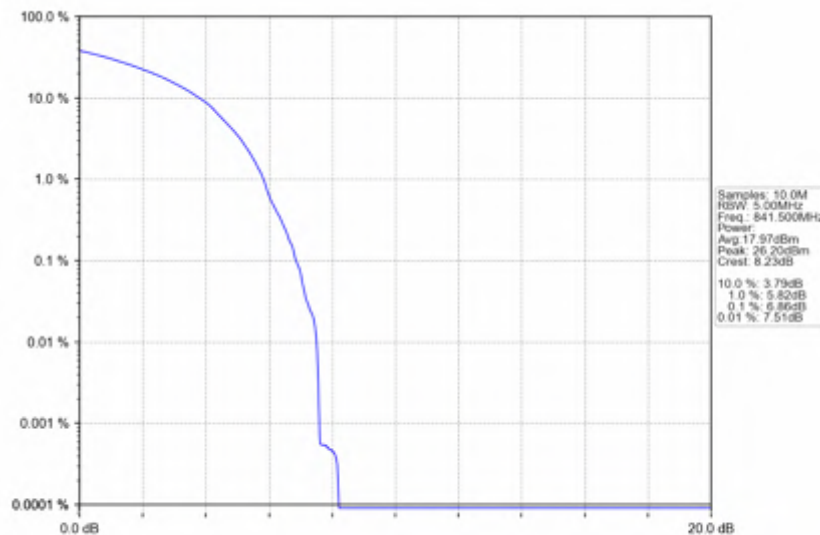
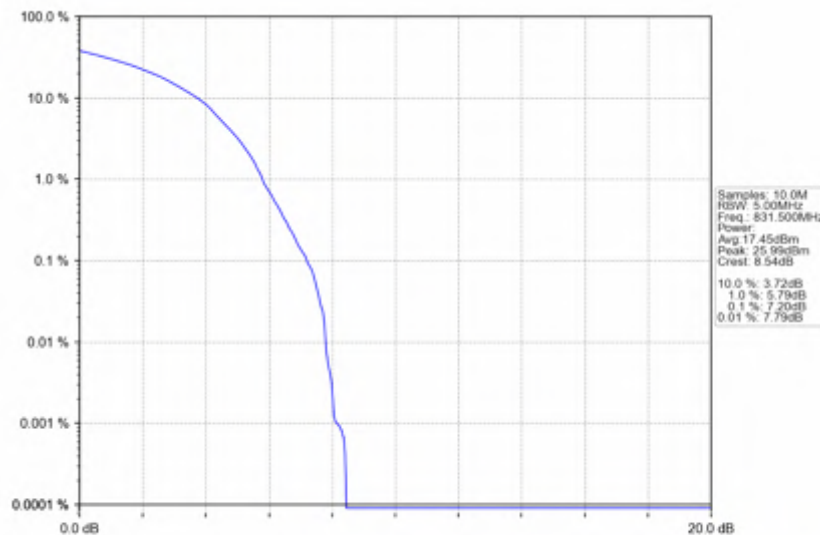


n5_30kHz_SISO_NTV_15MHz_DFT-s-OFDM 16 QAM 841.5MHz_Outer_Full



n5_30kHz_SISO_NTV_15MHz_DFT-s-OFDM 64 QAM 831.5MHz_Outer_Full



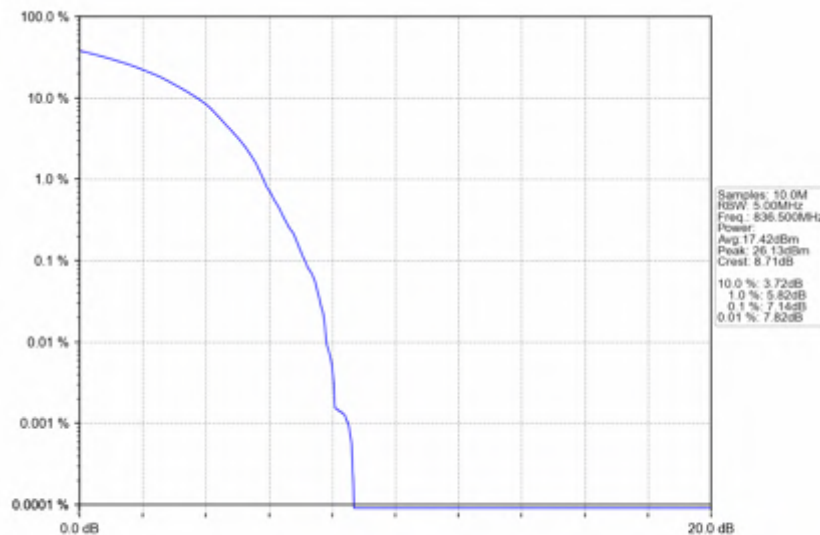
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

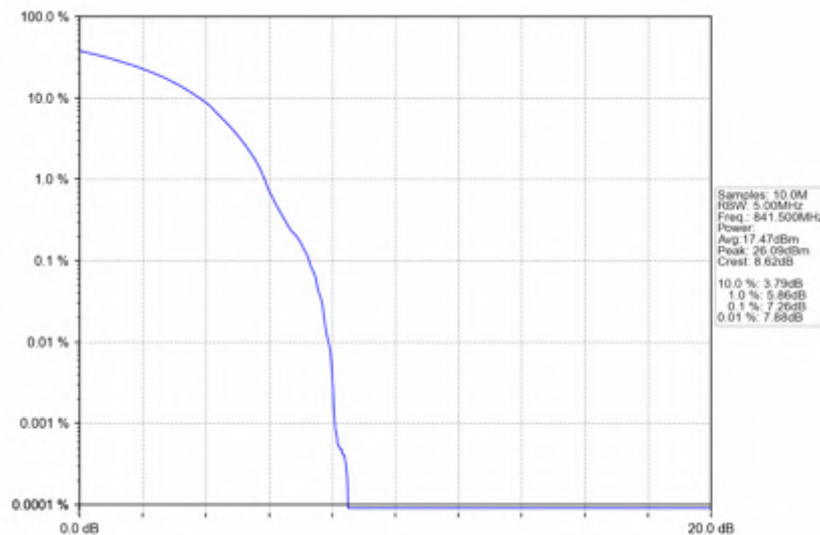
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

086-51257350888 086-51257370010 www.sgs.com.cn
086-51257350888 086-51257370010 sgs.china@sgs.com

n5_30kHz_SISO_NTV_15MHz_DFT-s-OFDM_64_QAM_836.5MHz_Outer_Full



n5_30kHz_SISO_NTV_15MHz_DFT-s-OFDM_64_QAM_841.5MHz_Outer_Full



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overall, 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-a-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 herein 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 certification report & certificate, please connect us at china@sgs.com or CN-Online@sgs.com.

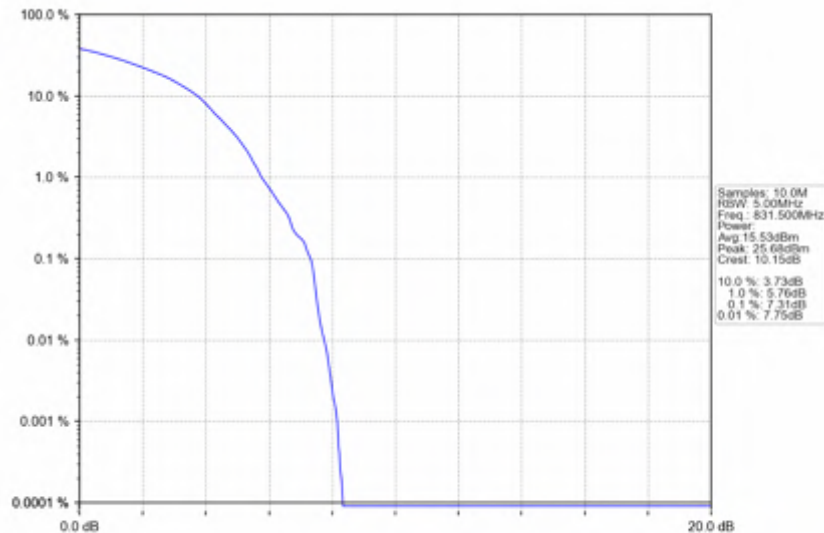
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

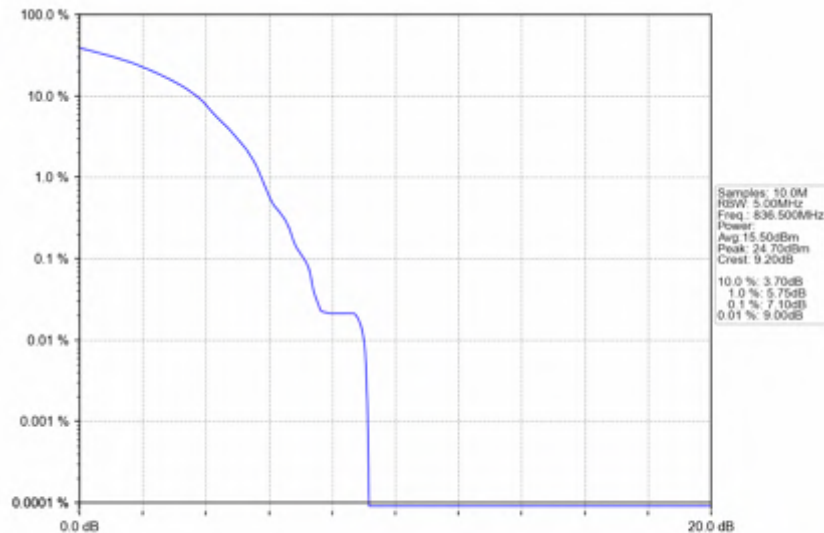
086-51215735088 086-51215737010 www.sgs.com.cn

086-51215735088 086-51215737010 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_831.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_836.5MHz_Outer_Full

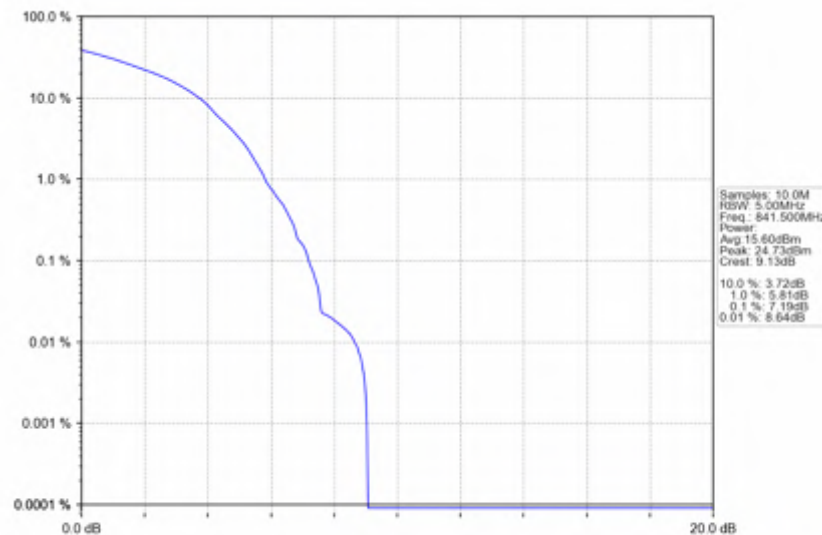


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Check@sgs.com.

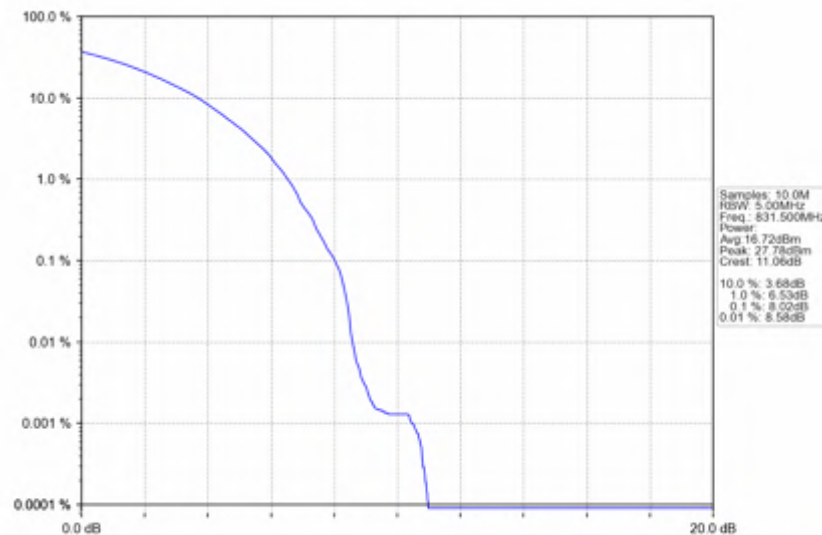
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_841.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_831.5MHz_Outer_Full



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-a-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 report & certificate, please connect us at sgs@sgs.com (86-512) 57370011 or email: CN-Online@sgs.com.

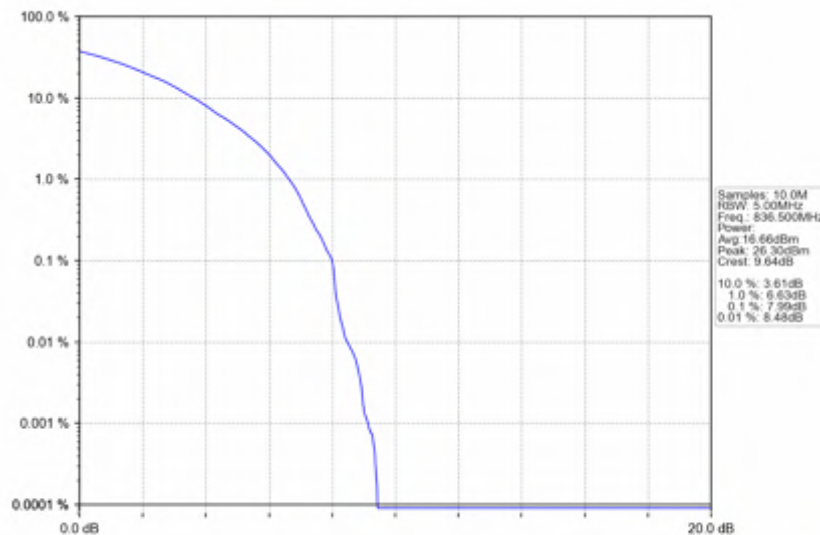
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

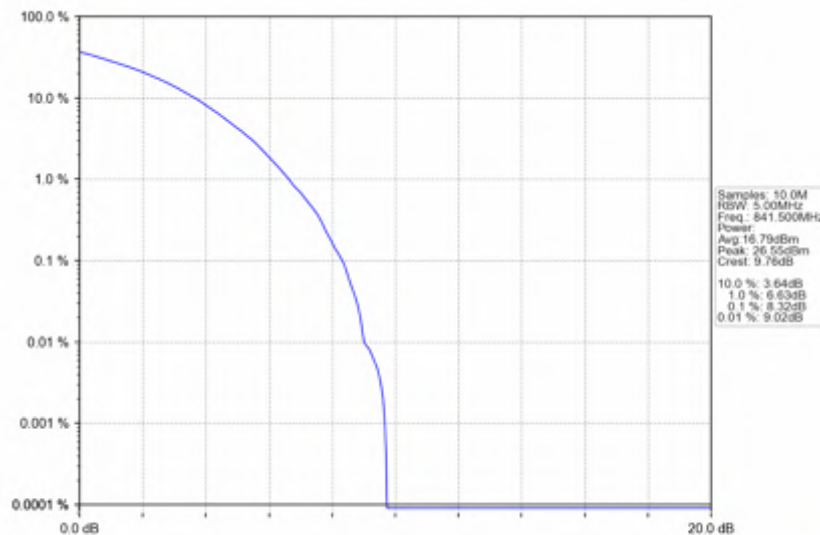
0086-51257350888 006-51257370011 www.sgs.com.cn

0086-51257350888 006-51257370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_841.5MHz_Outer_Full

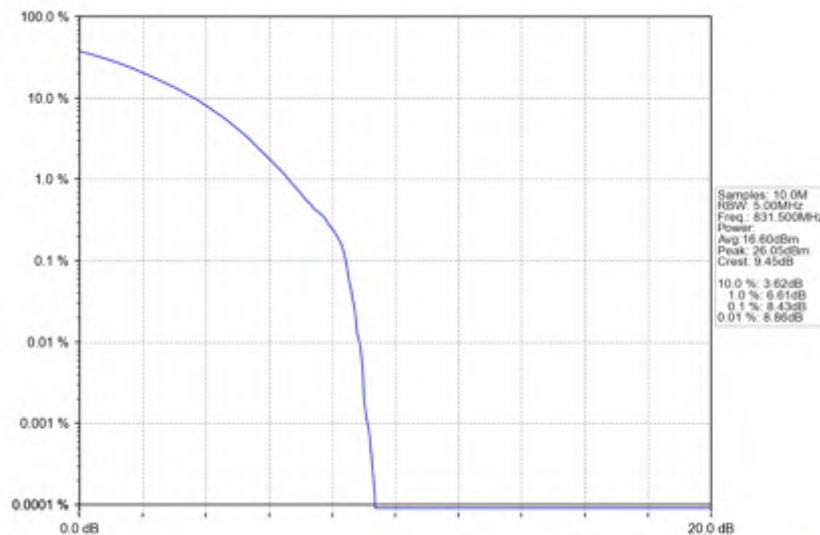


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Check@sgs.com.

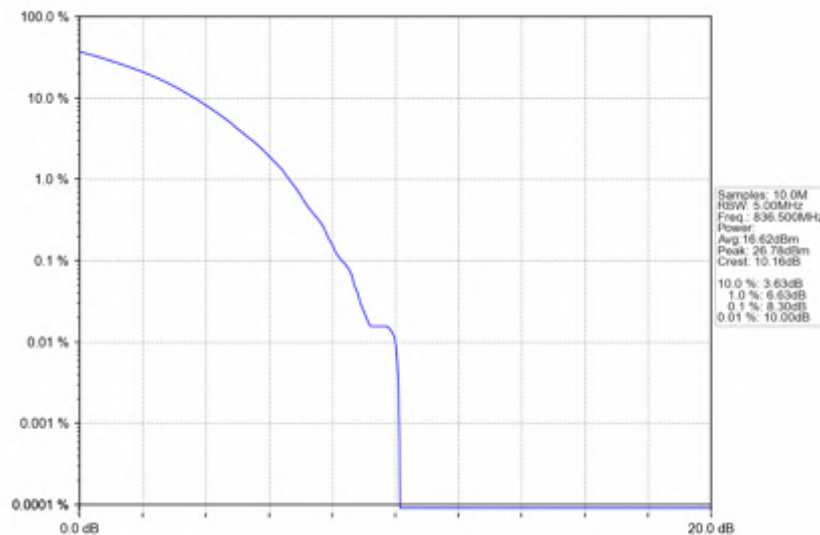
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350888 (86-512) 57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_831.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_836.5MHz_Outer_Full

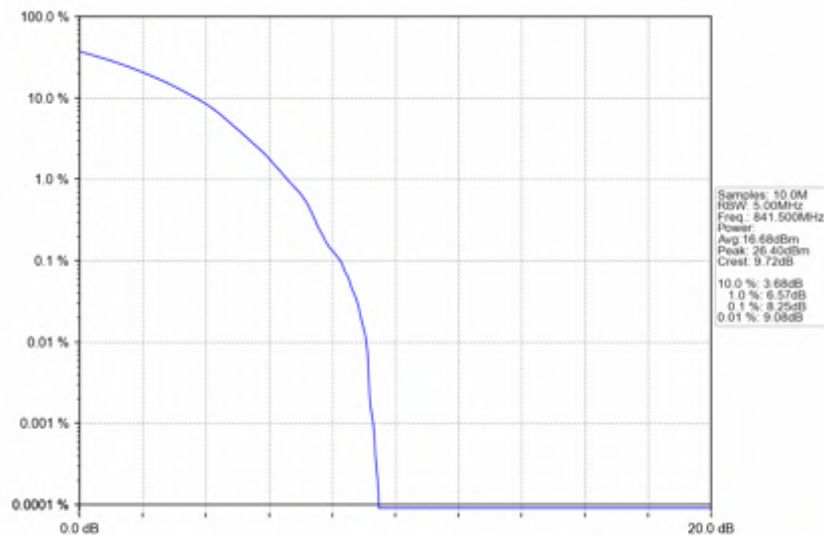


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report & certificate, please connect us at china@sgs.com (86-512)57370011

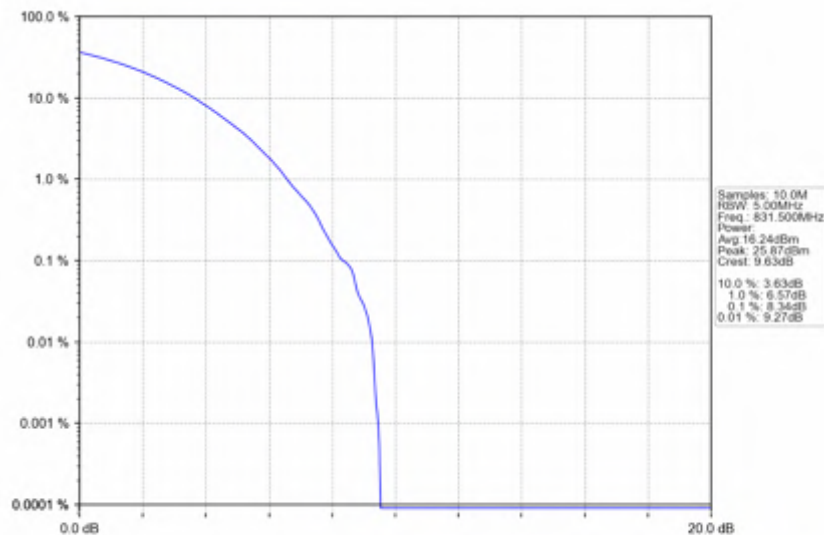
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
 (86-512)57350888 (86-512)57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM 841.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM 831.5MHz_Outer_Full

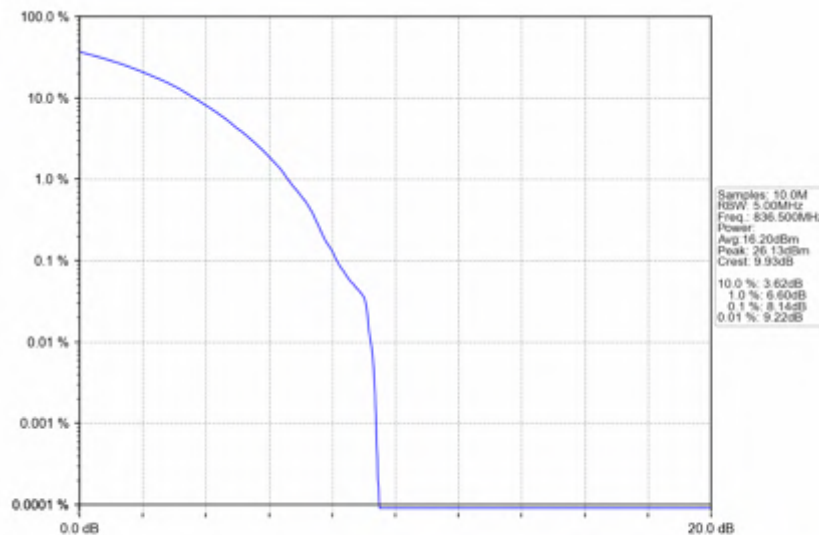


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011
 or email: CN-Check@sgs.com.

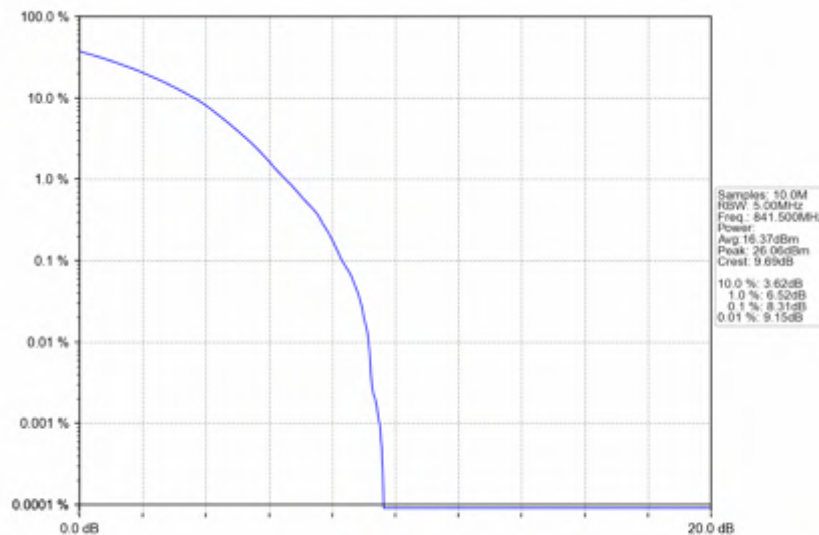
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
 (86-512)57350888 (86-512)57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_841.5MHz_Outer_Full



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-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011 or email: CN-Check@sgs.com.

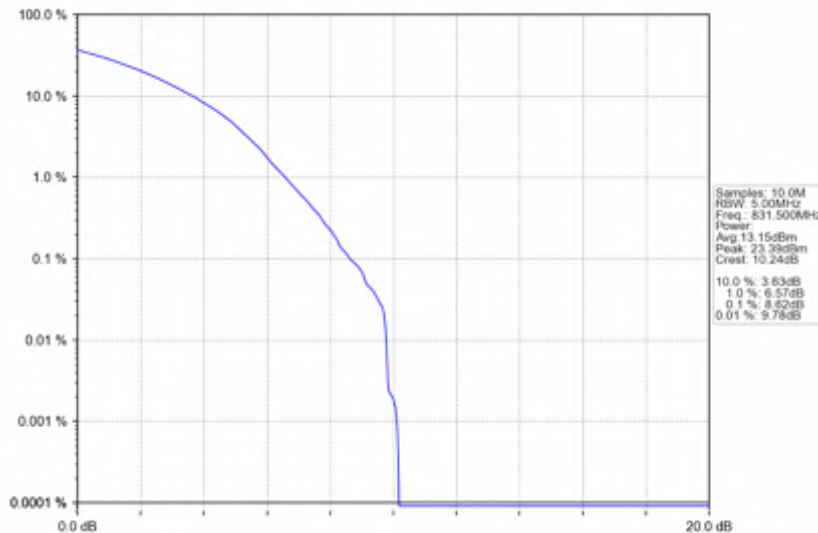
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

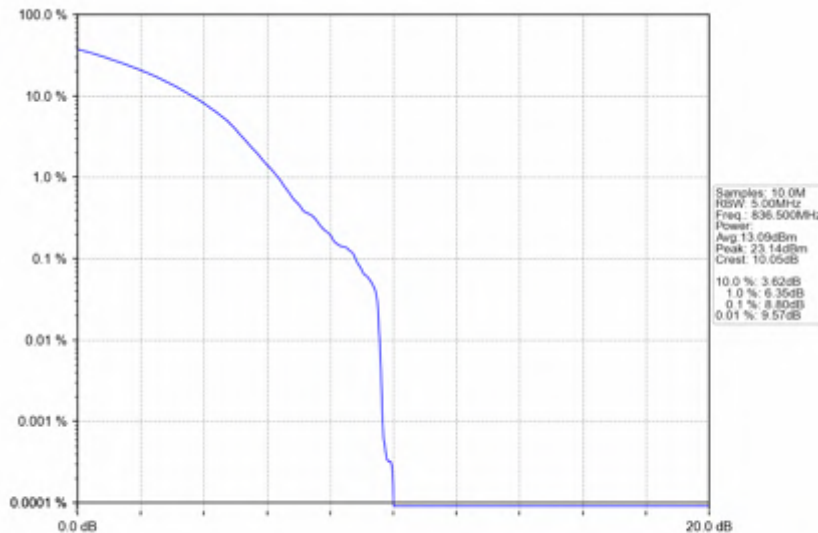
0086-51257370088 006-51257370011 www.sgs.com.cn

0086-51257350883 006-51257370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_831.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_836.5MHz_Outer_Full



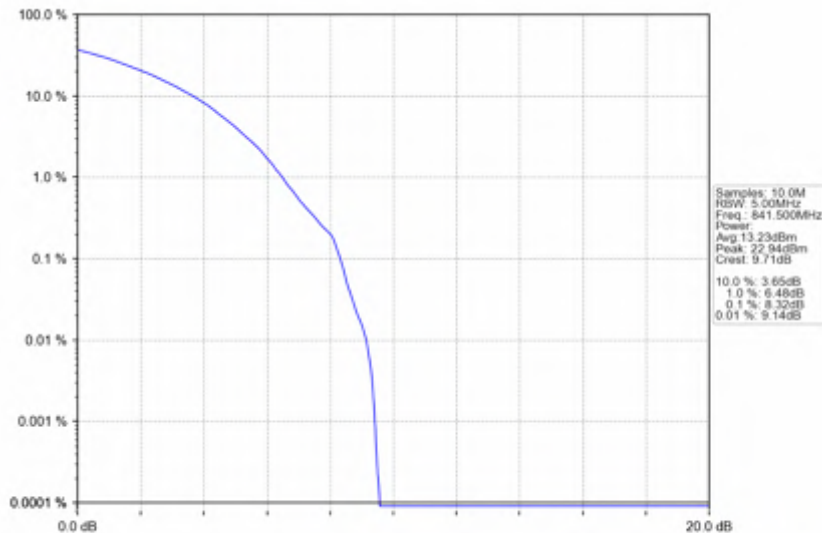
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

086-51257350888 086-51257370010 www.sgs.com.cn
 086-51257350888 086-51257370010 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_841.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at telephone: (86-512) 57370011 or email: CH.Official@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

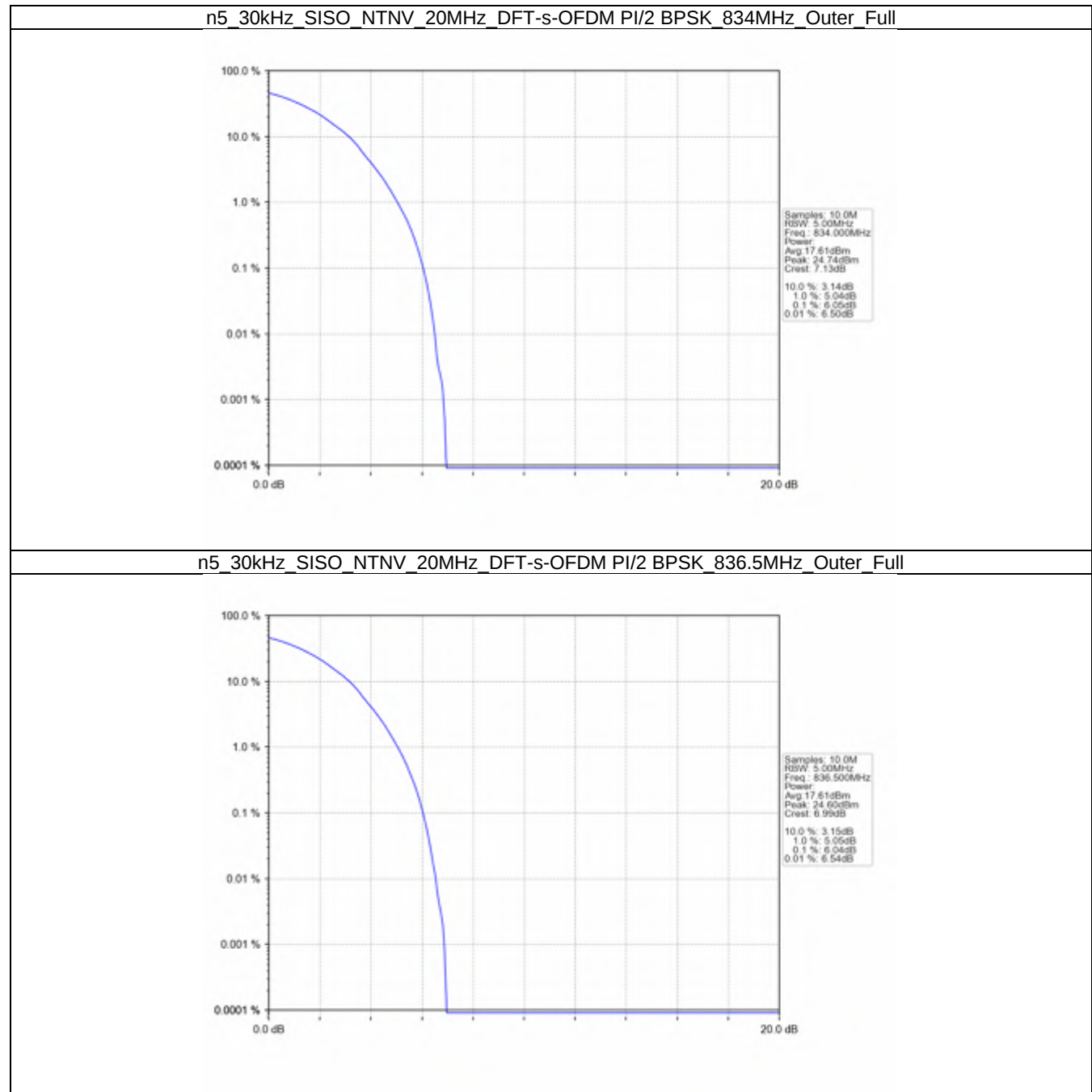
(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

2.7 30k_SISO_20MHz_NTNV

2.7.1 Test Result

5G NR n5 SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	834	Outer_Full	6.05	/	/	<=13	Pass
	836.5	Outer_Full	6.04	/	/	<=13	Pass
	839	Outer_Full	6.09	/	/	<=13	Pass
DFT-s-OFDM QPSK	834	Outer_Full	6.92	/	/	<=13	Pass
	836.5	Outer_Full	6.84	/	/	<=13	Pass
	839	Outer_Full	6.87	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	834	Outer_Full	7.41	/	/	<=13	Pass
	836.5	Outer_Full	7.44	/	/	<=13	Pass
	839	Outer_Full	7.37	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	834	Outer_Full	7.01	/	/	<=13	Pass
	836.5	Outer_Full	7.30	/	/	<=13	Pass
	839	Outer_Full	7.33	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	834	Outer_Full	7.24	/	/	<=13	Pass
	836.5	Outer_Full	7.54	/	/	<=13	Pass
	839	Outer_Full	7.20	/	/	<=13	Pass
CP-OFDM QPSK	834	Outer_Full	8.28	/	/	<=13	Pass
	836.5	Outer_Full	8.19	/	/	<=13	Pass
	839	Outer_Full	8.18	/	/	<=13	Pass
CP-OFDM 16 QAM	834	Outer_Full	8.23	/	/	<=13	Pass
	836.5	Outer_Full	8.68	/	/	<=13	Pass
	839	Outer_Full	8.27	/	/	<=13	Pass
CP-OFDM 64 QAM	834	Outer_Full	8.37	/	/	<=13	Pass
	836.5	Outer_Full	8.68	/	/	<=13	Pass
	839	Outer_Full	8.26	/	/	<=13	Pass
CP-OFDM 256 QAM	834	Outer_Full	8.22	/	/	<=13	Pass
	836.5	Outer_Full	8.30	/	/	<=13	Pass
	839	Outer_Full	8.59	/	/	<=13	Pass

2.7.2 Test Graph



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-a-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 herein 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 report and certificate, please connect us at sgs@sgs.com (86-512) 57370011 or email: CN-Online@sgs.com.

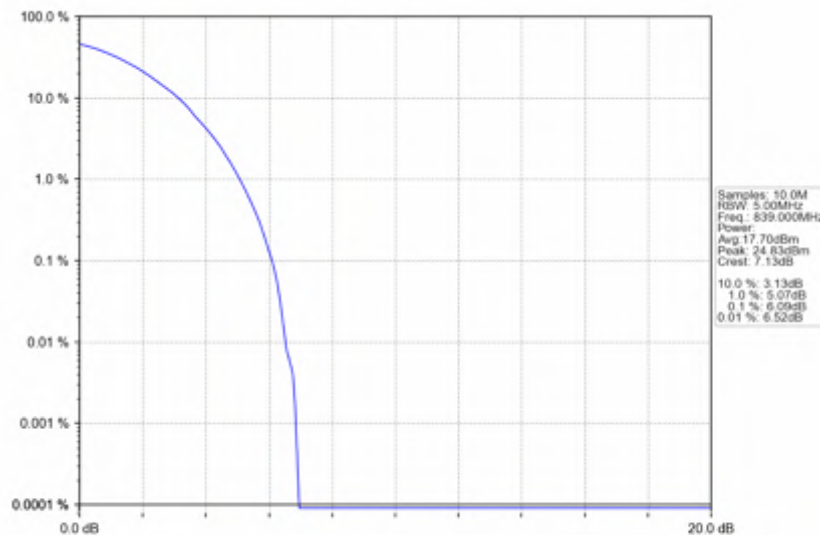
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路18号 邮编 215300

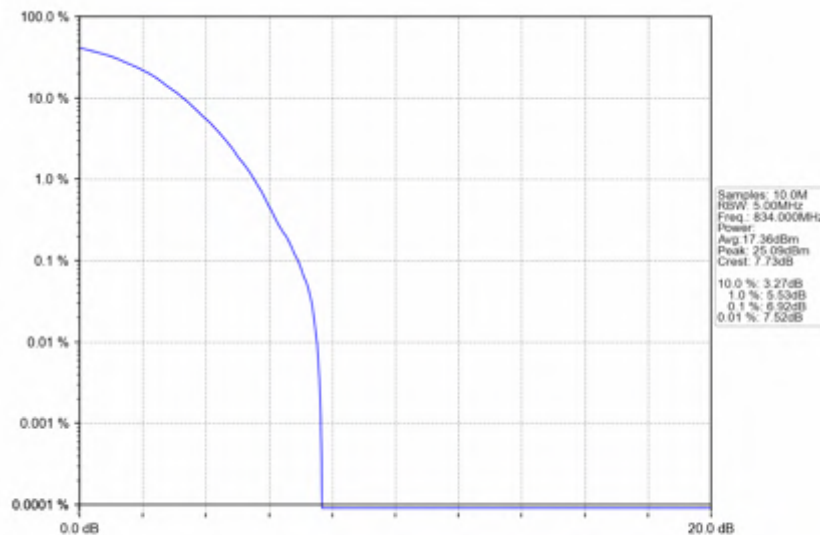
86-512/57350888 86-512/57370011 www.sgs.com.cn

86-512/57350888 86-512/57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_839MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_834MHz_Outer_Full



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-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011 or email: CN-Check@sgs.com.

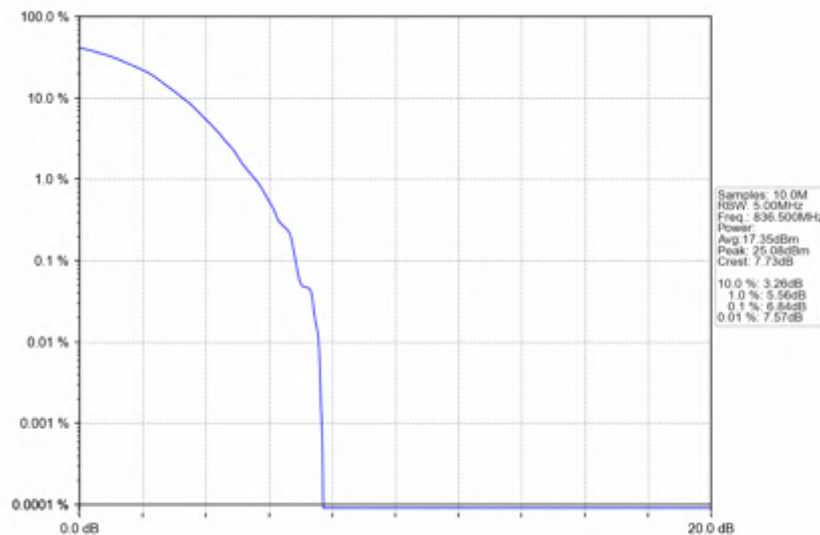
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

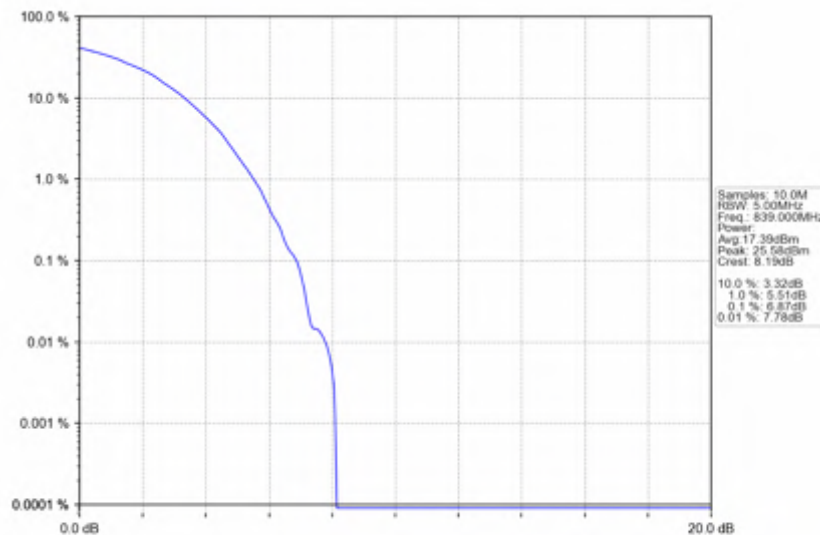
086-51257350888 086-51257370011 www.sgs.com.cn

086-51257350888 086-51257370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_839MHz_Outer_Full

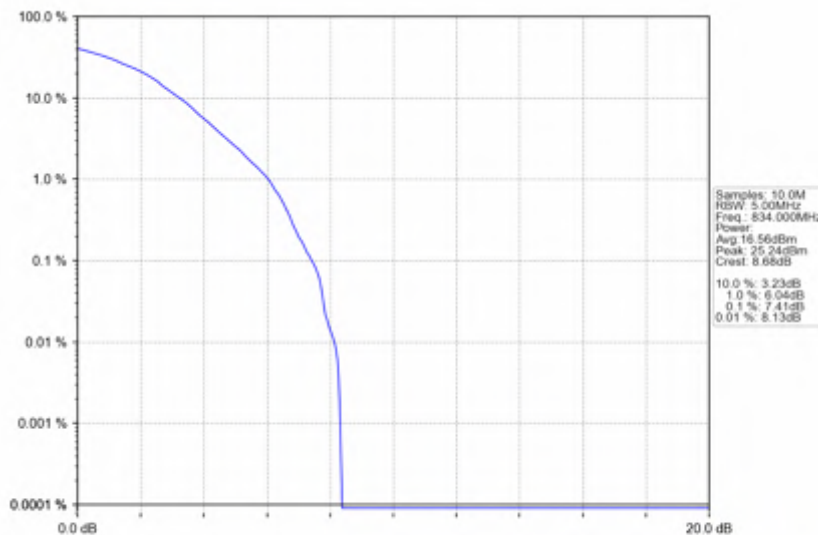


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Online@sgs.com

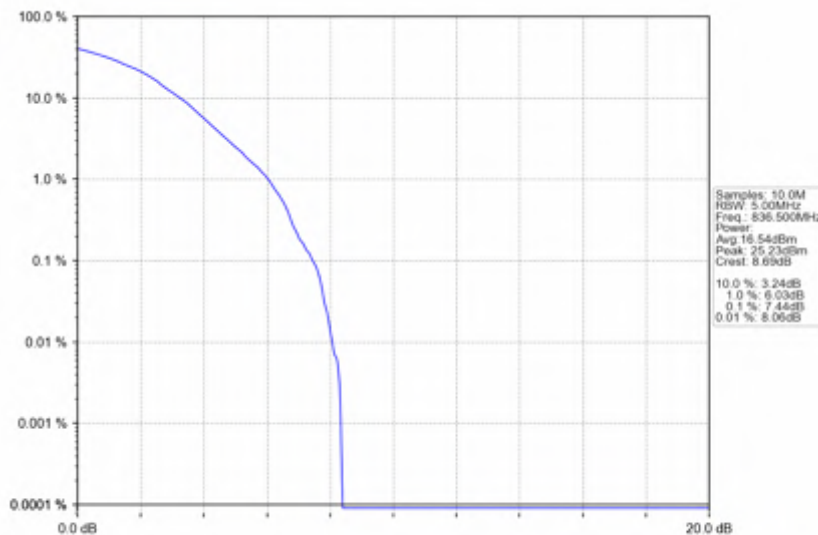
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350888 (86-512) 57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_834MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full



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-a-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 herein 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 certification report & certificate, please connect us at CH.Official@sgs.com or email: CH.Official@sgs.com.

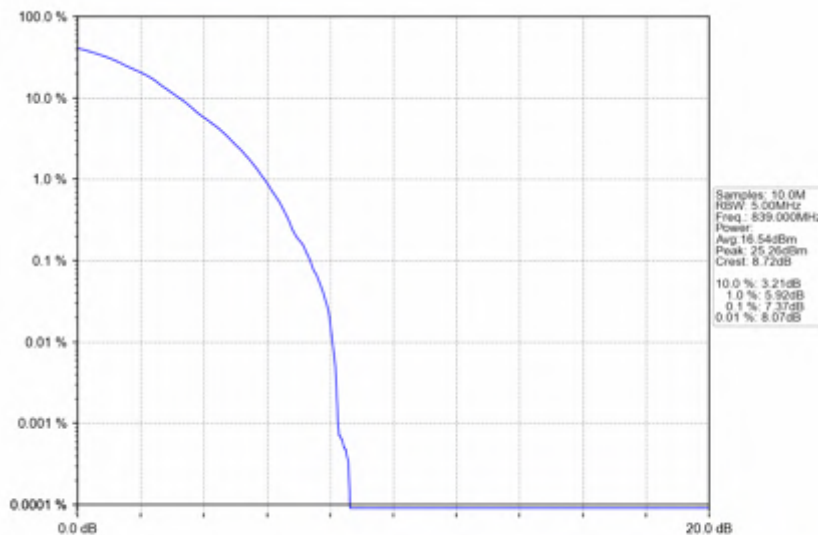
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

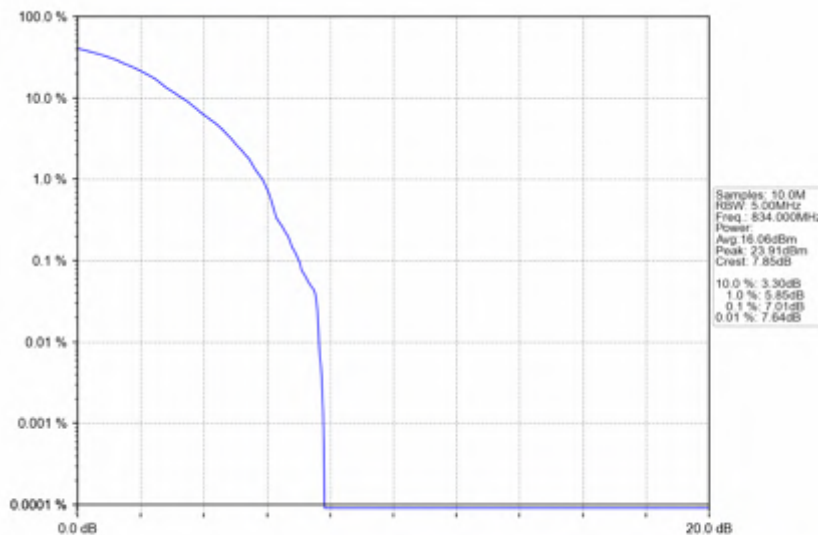
0512-51257350888 0512-51257370910 www.sgs.com.cn

0512-51257350888 0512-51257370910 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_839MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_834MHz_Outer_Full

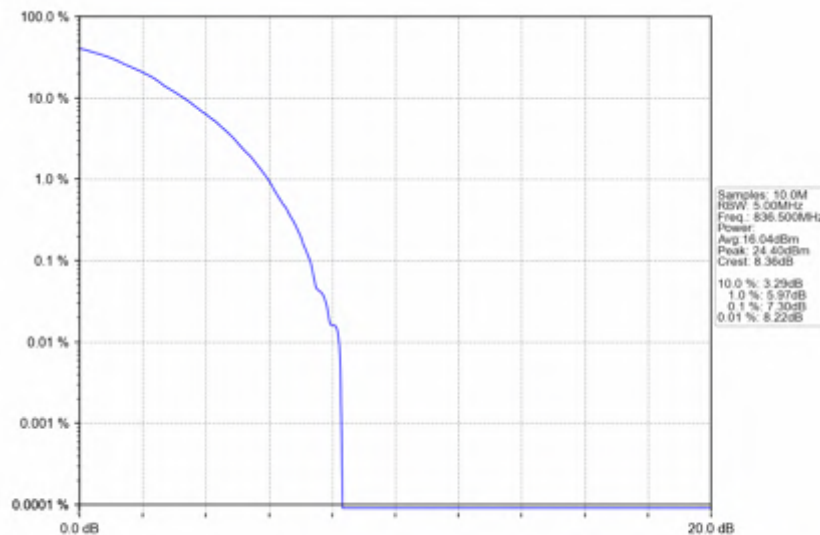


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Online@sgs.com

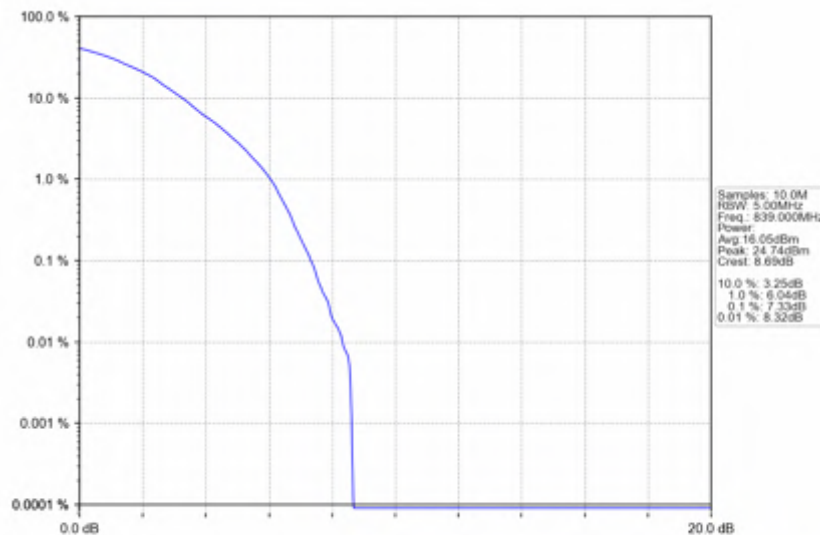
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_839MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at china@sgs.com (86-512)57370011 or email: CN-Check@sgs.com.

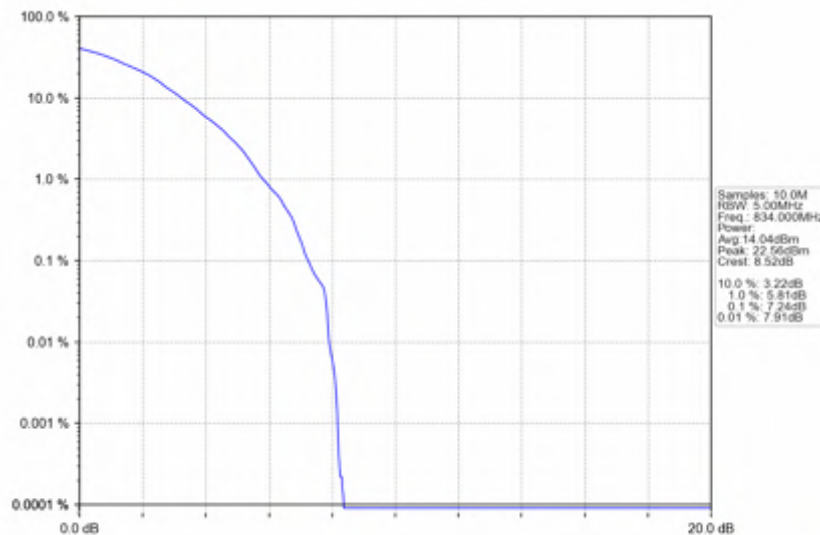
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

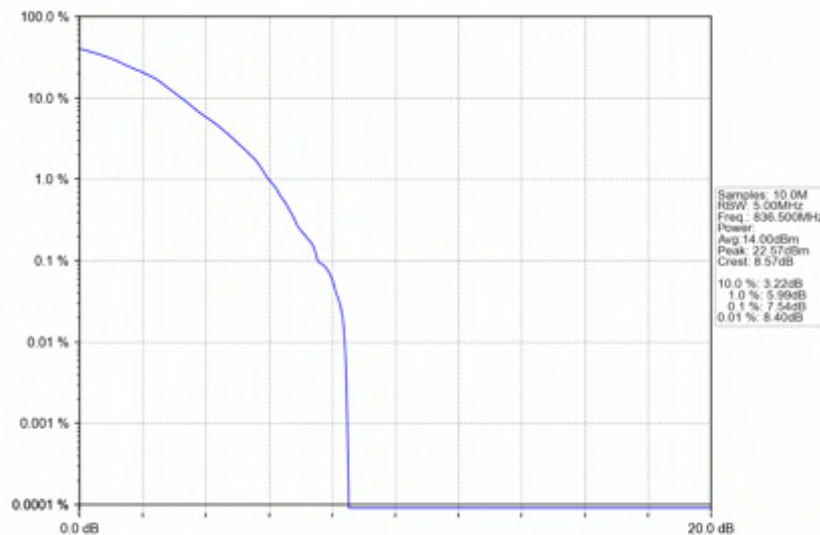
(86-512)57350888 (86-512)57370011 www.sgs.com.cn

(86-512)57350888 (86-512)57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_834MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_836.5MHz_Outer_Full

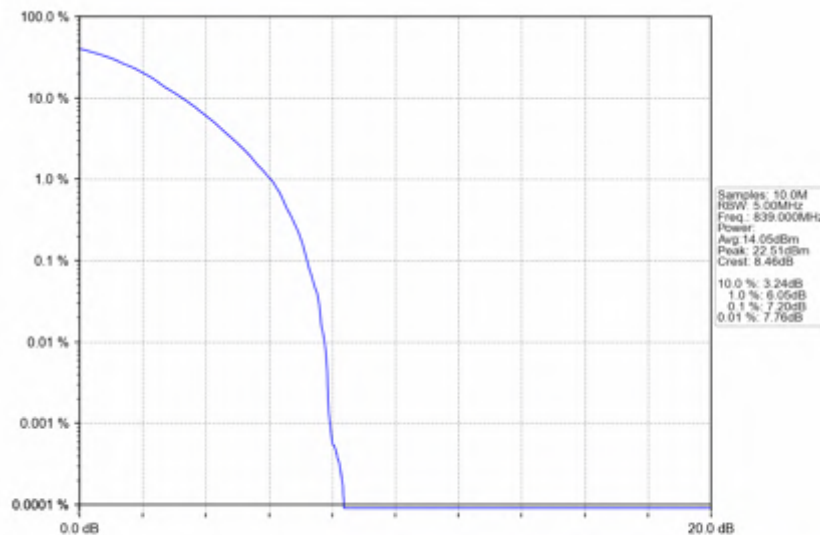


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at china@sgs.com or CN-Online@sgs.com.

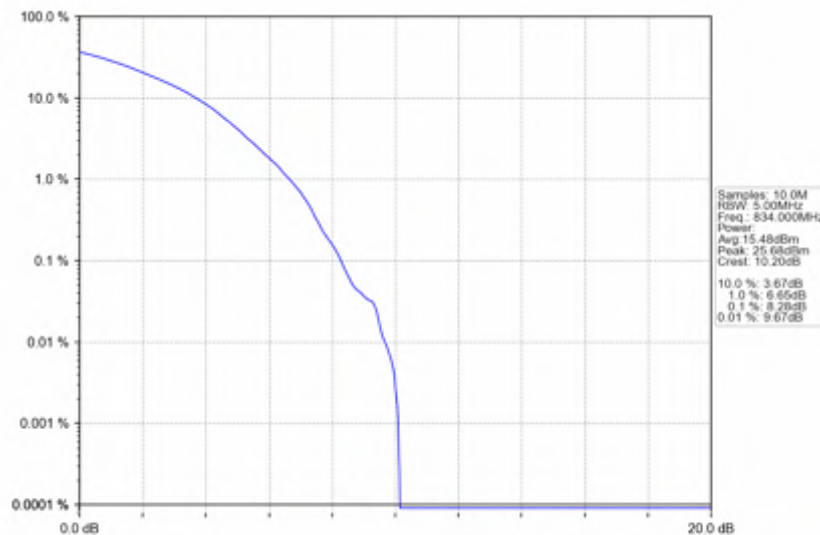
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0512-57350888 0512-57370910 www.sgs.com.cn
 0512-57350883 0512-57370911 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_839MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_834MHz_Outer_Full

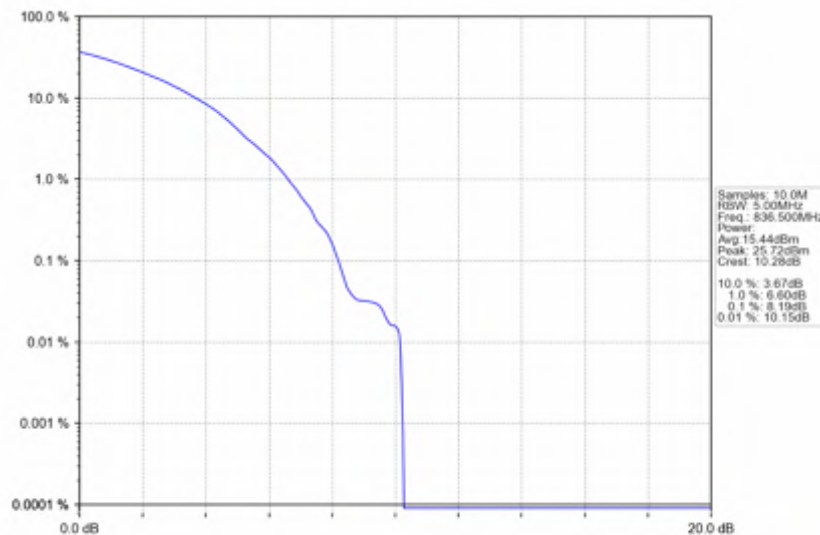


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Check@sgs.com.

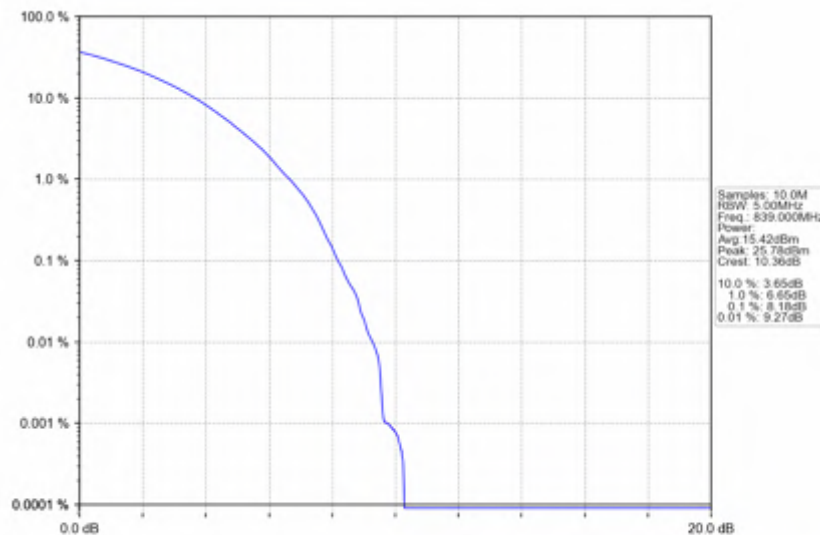
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_839MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011 or email: CN-Check@sgs.com.

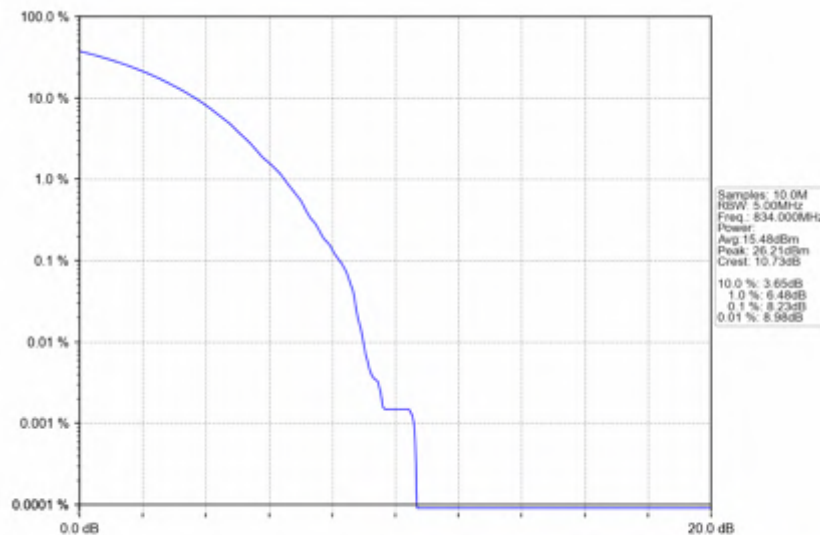
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

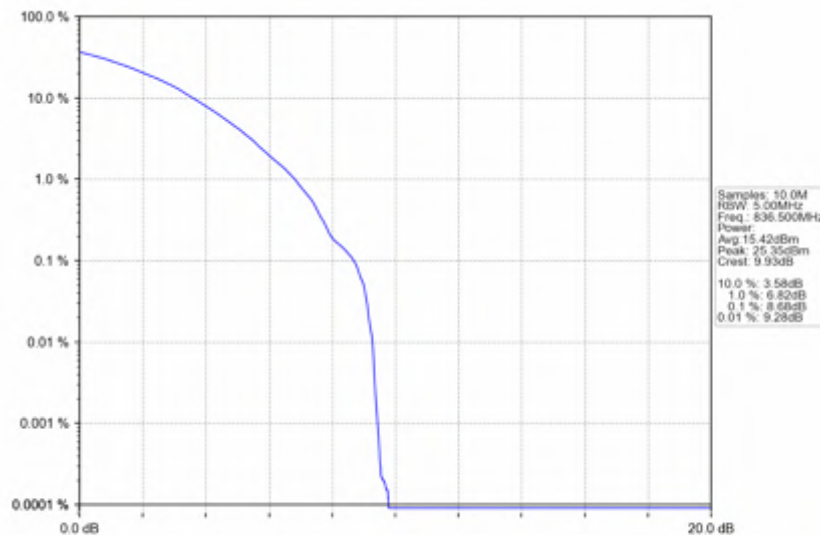
0086-51257350888 006-51257370011 www.sgs.com.cn

0086-51257350888 006-51257370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_834MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_836.5MHz_Outer_Full

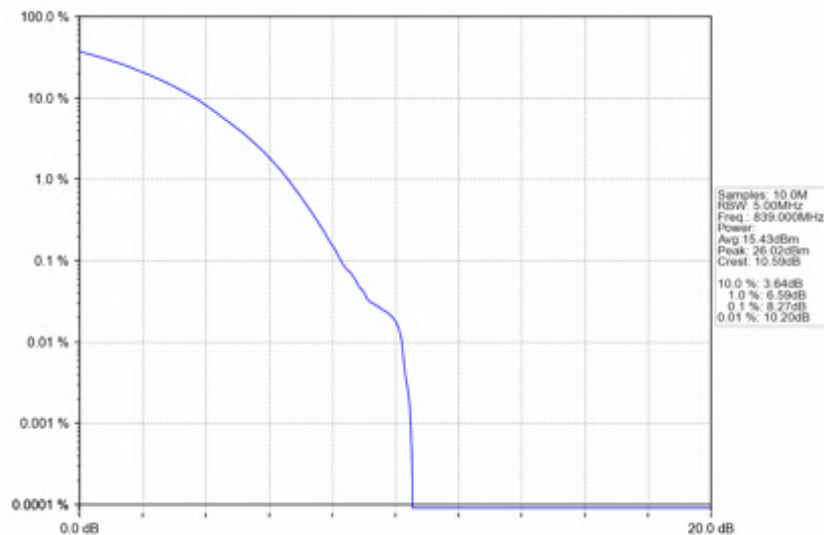


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011
 or email: CN-Check@sgs.com.

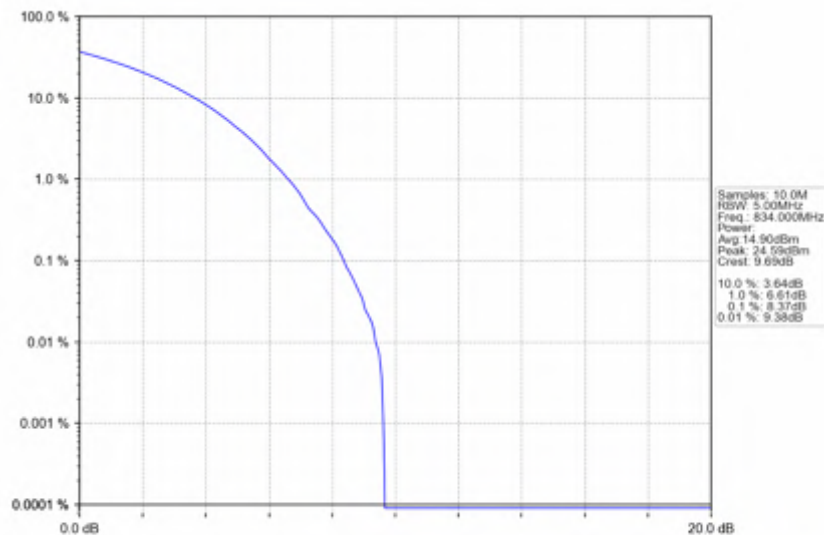
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
 (86-512)57350888 (86-512)57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_839MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_CP-OFDM_64_QAM_834MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com or CN-Online@sgs.com.

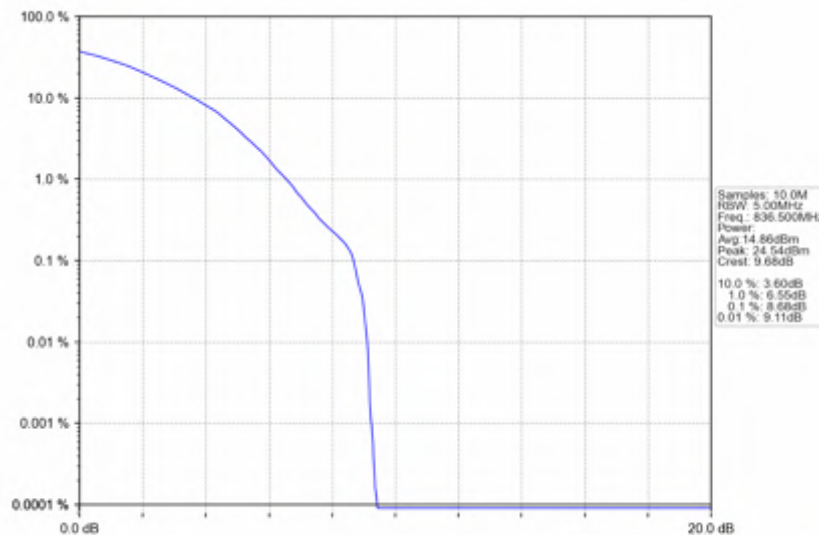
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

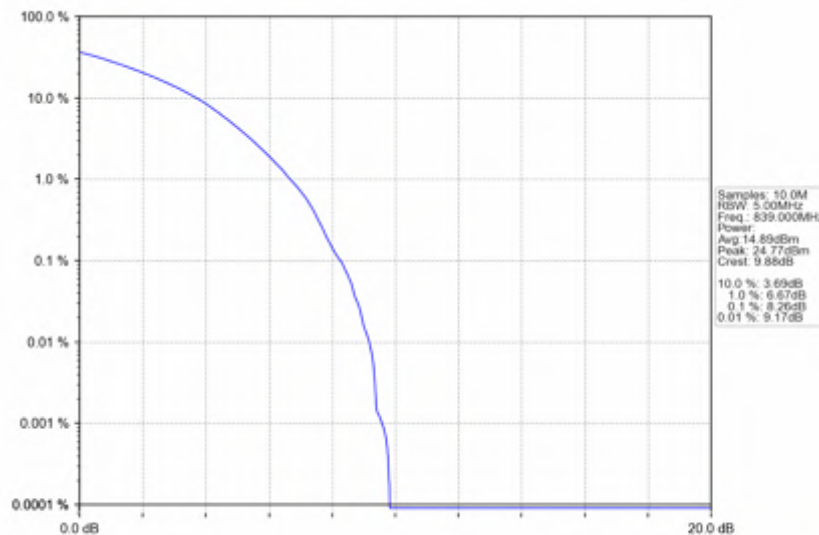
0512-57350888 0512-57370910 www.sgs.com.cn

0512-57350883 0512-57370911 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_839MHz_Outer_Full

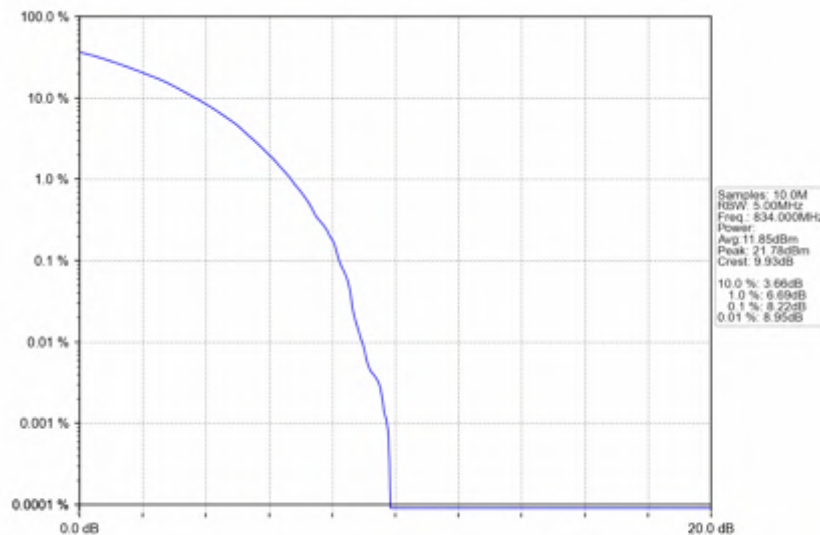


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Check@sgs.com.

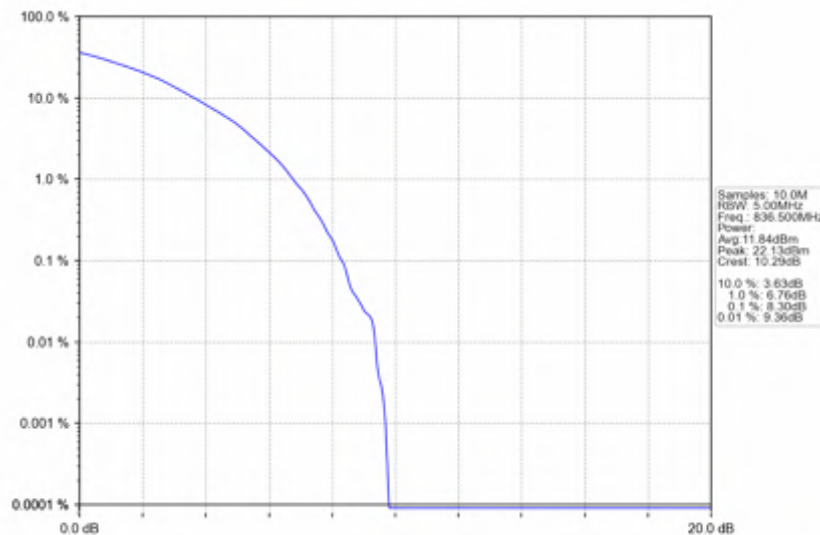
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_834MHz_Outer_Full



n5_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_836.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011 or email: CN-Check@sgs.com.

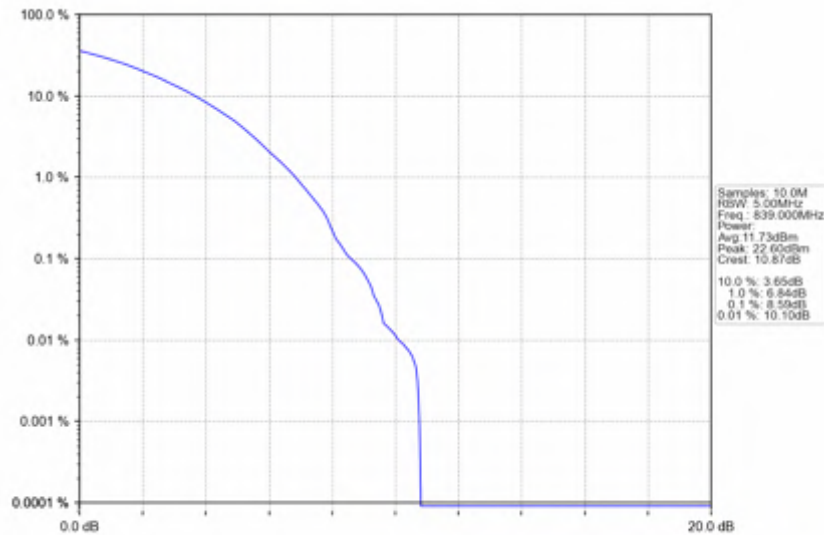
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路18号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn

(86-512)57350888 (86-512)57370011 sgs.china@sgs.com

n5_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_839MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at telephone: (86-512) 57370011 or email: CH.Official@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

3. n7 Peak-Average Ratio

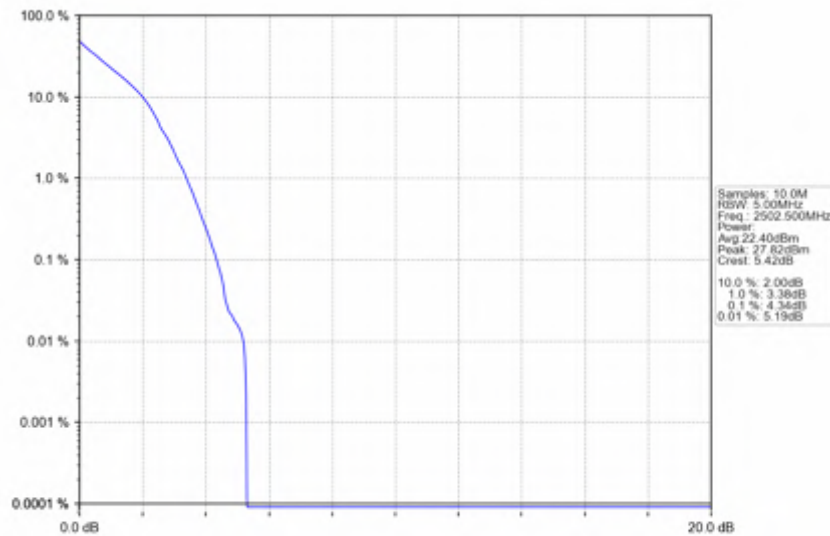
3.1 15k_SISO_5MHz_NTNV

3.1.1 Test Result

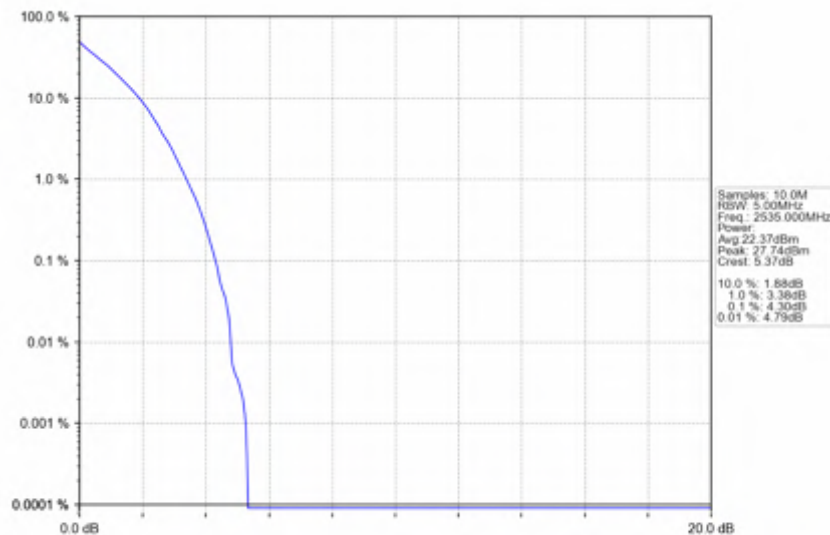
5G NR n7 SCS=15kHz SISO 5MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2502.5	Outer_Full	4.34	/	/	<=13	Pass
	2535	Outer_Full	4.30	/	/	<=13	Pass
	2567.5	Outer_Full	4.25	/	/	<=13	Pass
DFT-s-OFDM QPSK	2502.5	Outer_Full	5.64	/	/	<=13	Pass
	2535	Outer_Full	5.68	/	/	<=13	Pass
	2567.5	Outer_Full	5.68	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2502.5	Outer_Full	6.45	/	/	<=13	Pass
	2535	Outer_Full	6.48	/	/	<=13	Pass
	2567.5	Outer_Full	6.41	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2502.5	Outer_Full	6.45	/	/	<=13	Pass
	2535	Outer_Full	6.45	/	/	<=13	Pass
	2567.5	Outer_Full	6.44	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2502.5	Outer_Full	6.59	/	/	<=13	Pass
	2535	Outer_Full	6.64	/	/	<=13	Pass
	2567.5	Outer_Full	6.69	/	/	<=13	Pass
CP-OFDM QPSK	2502.5	Outer_Full	7.95	/	/	<=13	Pass
	2535	Outer_Full	7.96	/	/	<=13	Pass
	2567.5	Outer_Full	8.02	/	/	<=13	Pass
CP-OFDM 16 QAM	2502.5	Outer_Full	8.13	/	/	<=13	Pass
	2535	Outer_Full	8.14	/	/	<=13	Pass
	2567.5	Outer_Full	8.15	/	/	<=13	Pass
CP-OFDM 64 QAM	2502.5	Outer_Full	8.32	/	/	<=13	Pass
	2535	Outer_Full	8.29	/	/	<=13	Pass
	2567.5	Outer_Full	8.31	/	/	<=13	Pass
CP-OFDM 256 QAM	2502.5	Outer_Full	8.59	/	/	<=13	Pass
	2535	Outer_Full	8.54	/	/	<=13	Pass
	2567.5	Outer_Full	8.56	/	/	<=13	Pass

3.1.2 Test Graph

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2535MHz_Outer_Full

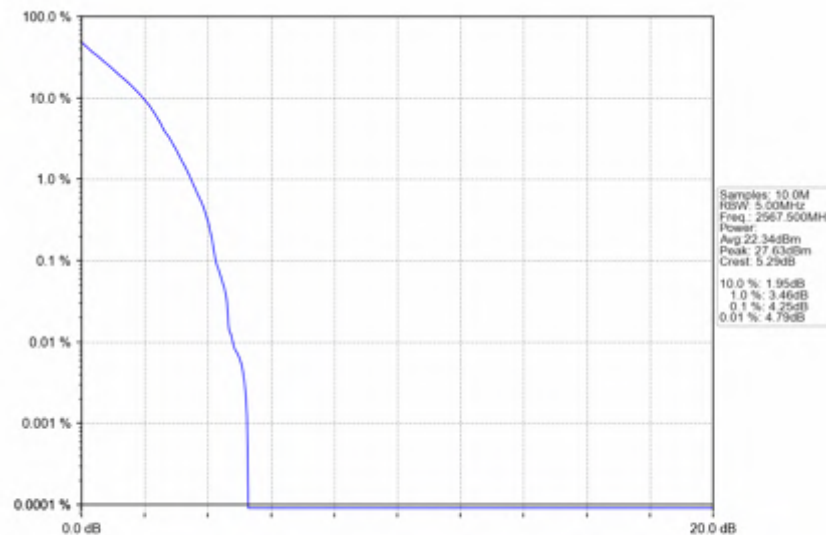


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

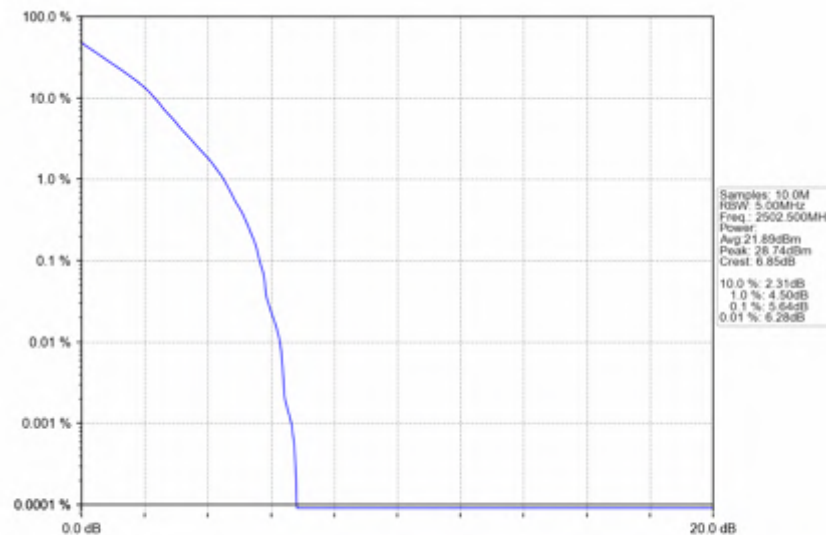
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0512-57350888 0512-57370910 www.sgs.com.cn
 0512-57350883 0512-57370911 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2567.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2502.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57350888 or email: CN-Online@sgs.com.

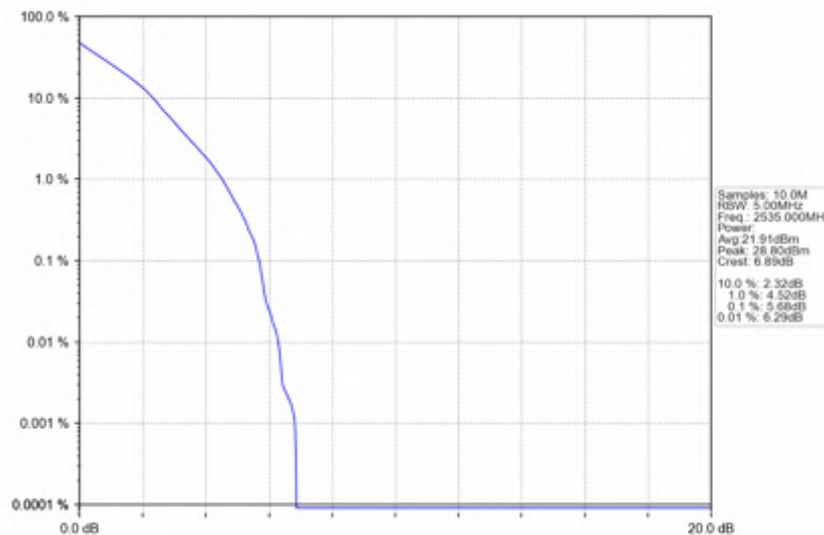
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

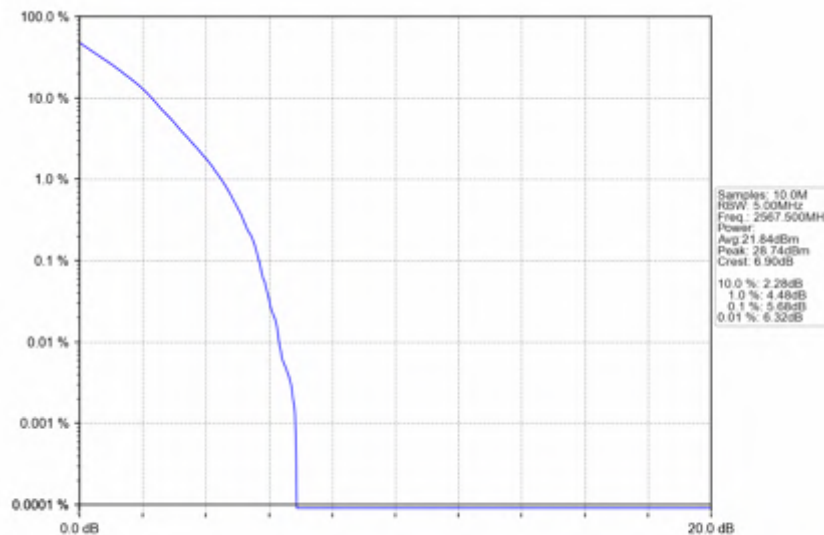
086-51257350888 086-51257370910 www.sgs.com.cn

086-51257350888 086-51257370910 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2567.5MHz_Outer_Full

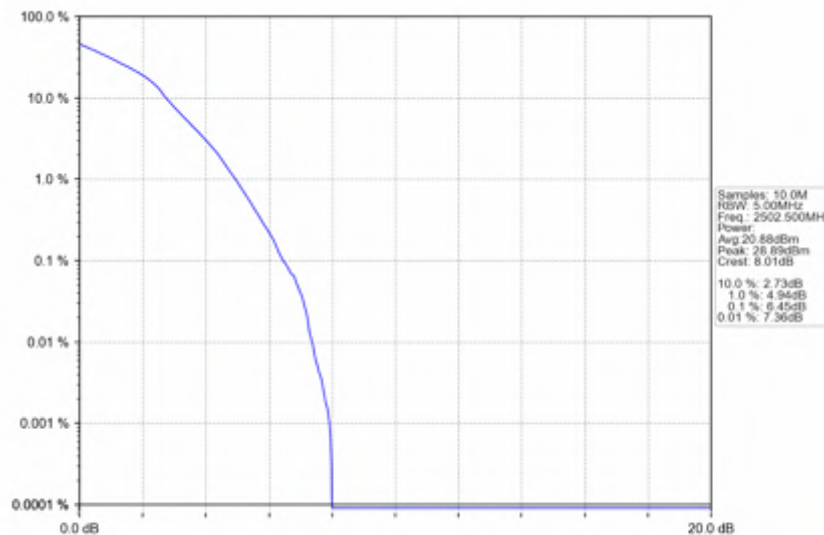


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

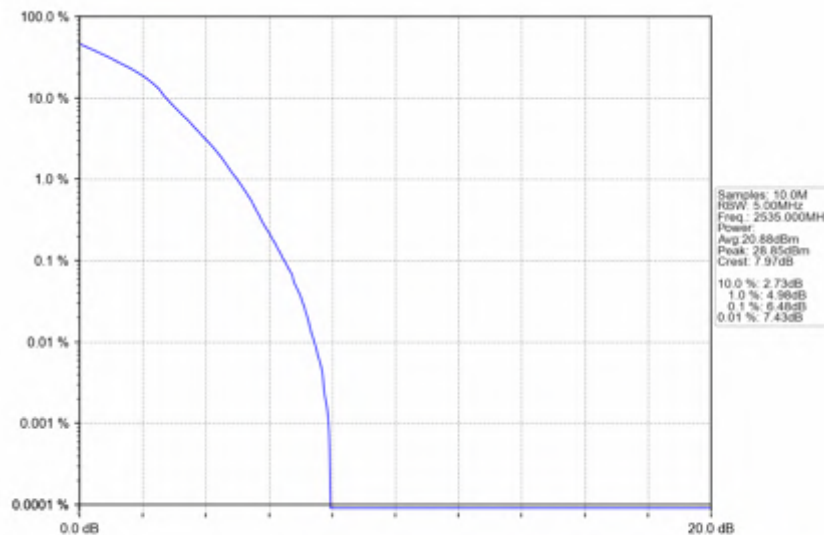
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370000 www.sgs.com.cn
 (86-512) 57350888 (86-512) 57370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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-a-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 report and certificates, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Check@sgs.com.

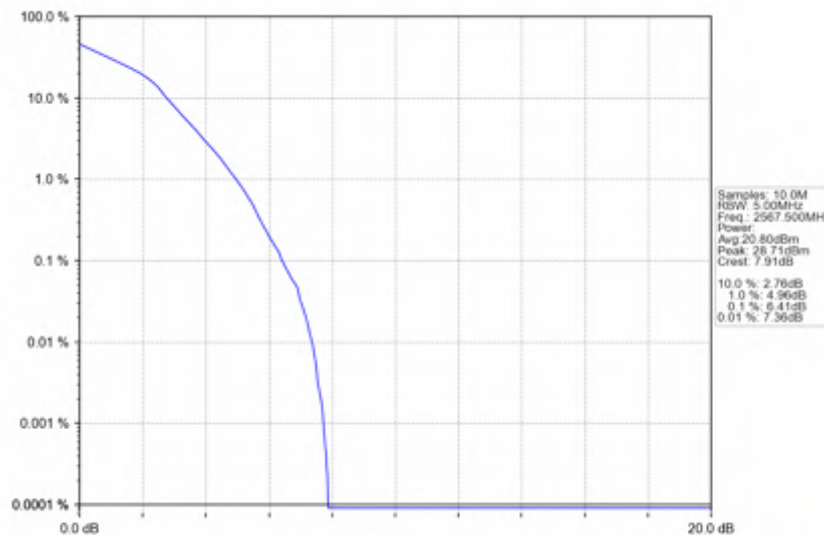
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

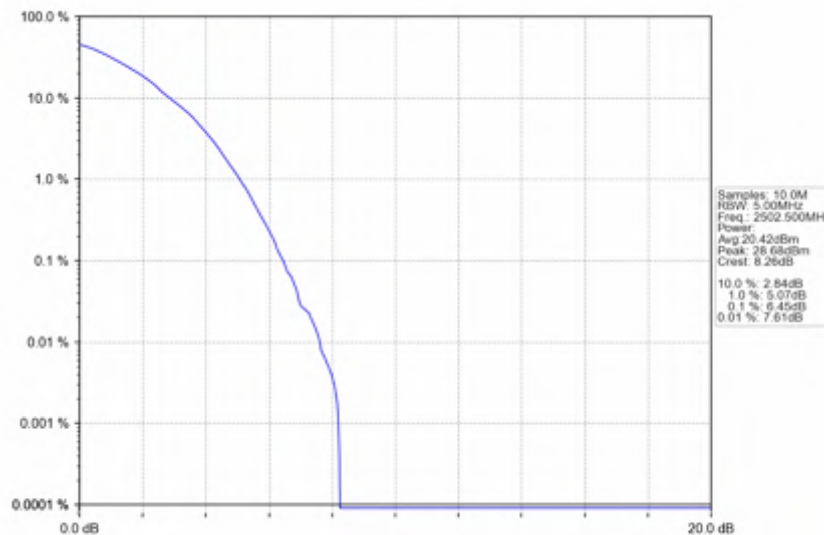
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTV_5MHz_DFT-s-OFDM 16 QAM_2567.5MHz_Outer_Full



n7_15kHz_SISO_NTV_5MHz_DFT-s-OFDM 64 QAM_2502.5MHz_Outer_Full



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-a-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 report and certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Check@sgs.com.

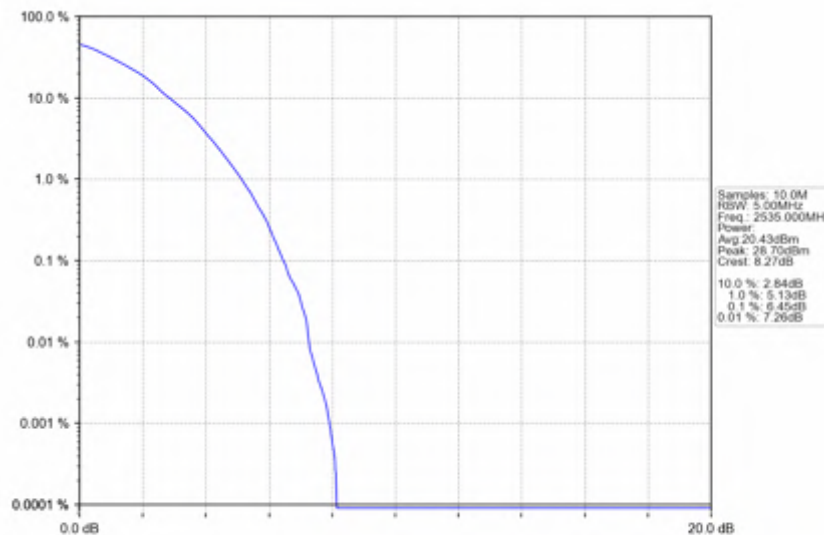
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

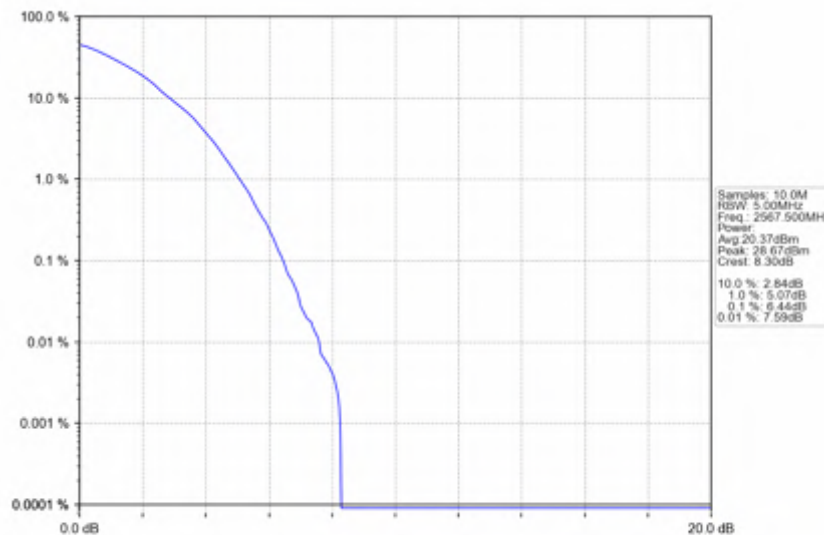
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_2567.5MHz_Outer_Full



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-a-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 report and certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

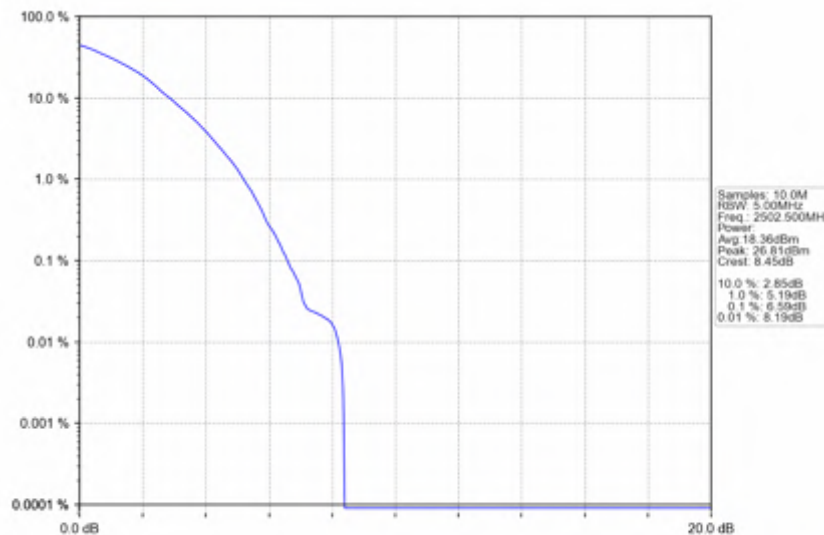
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

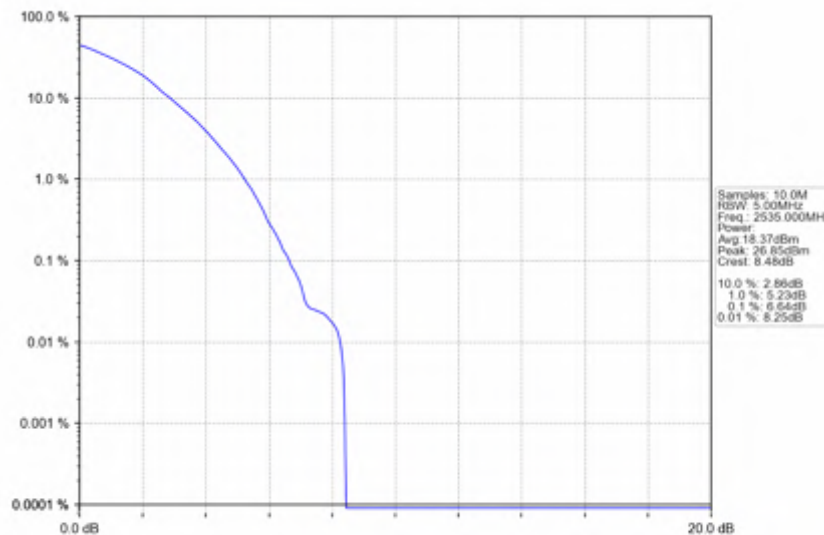
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full

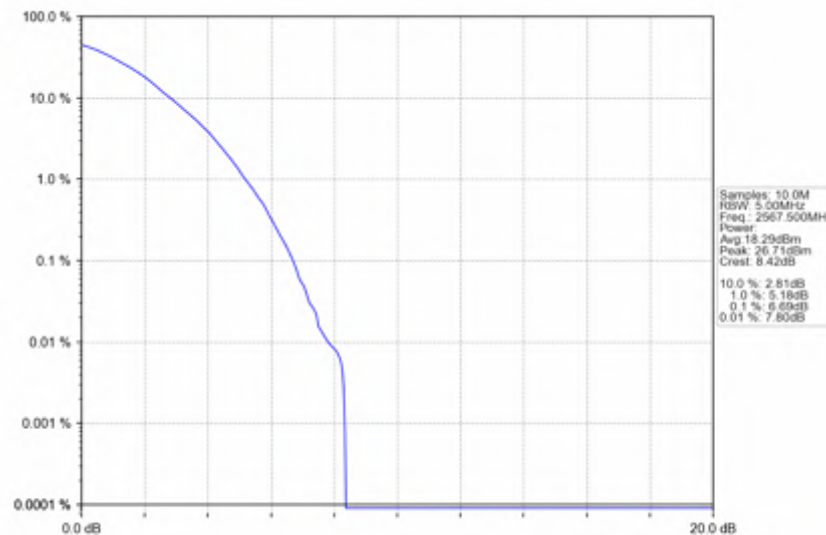


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report & certificate, please connect us at sgs@sgs.com (86-512)57370011
 or email: CN-Check@sgs.com

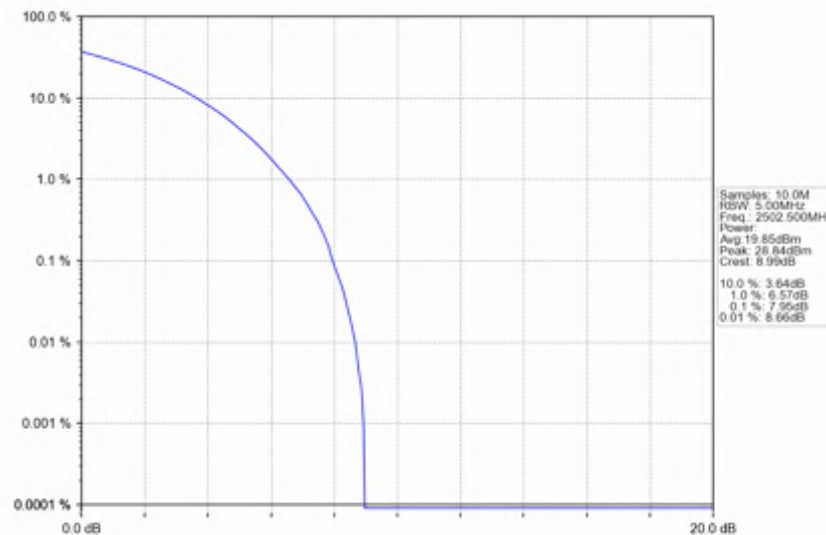
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
 (86-512)57350888 (86-512)57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_2567.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_2502.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Online@sgs.com.

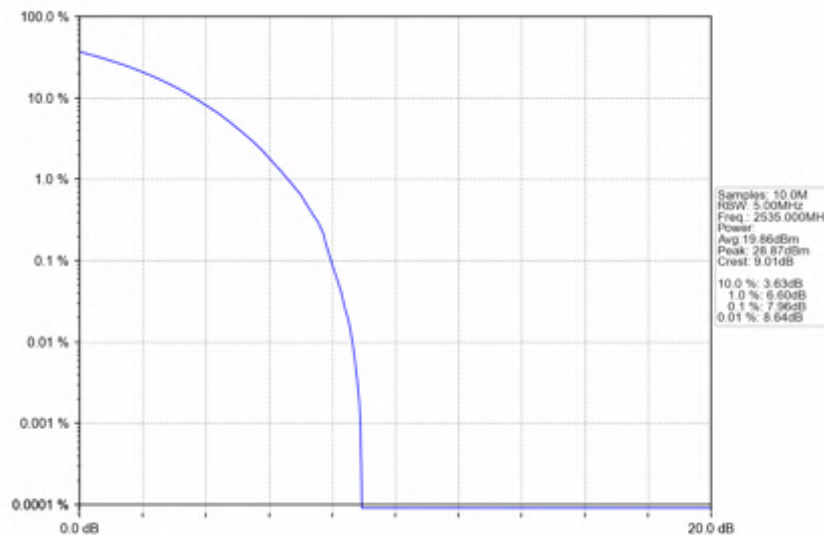
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路18号 邮编 215300

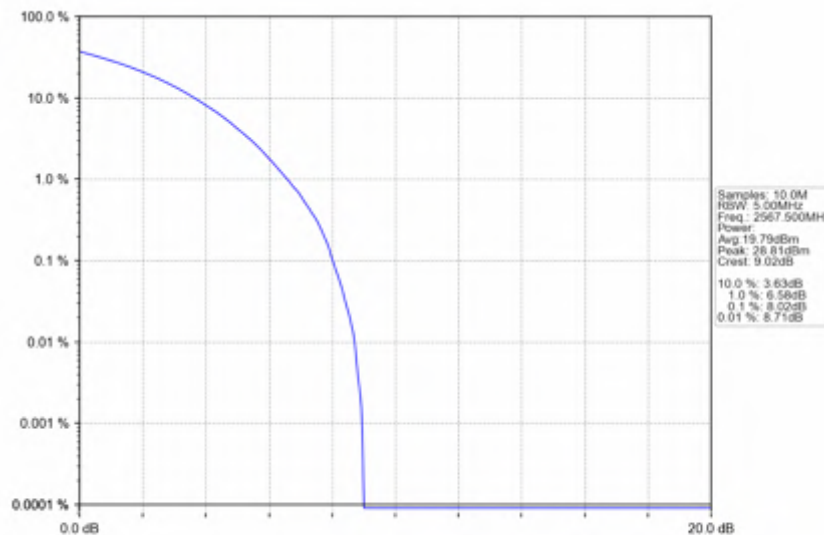
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2567.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Check@sgs.com.

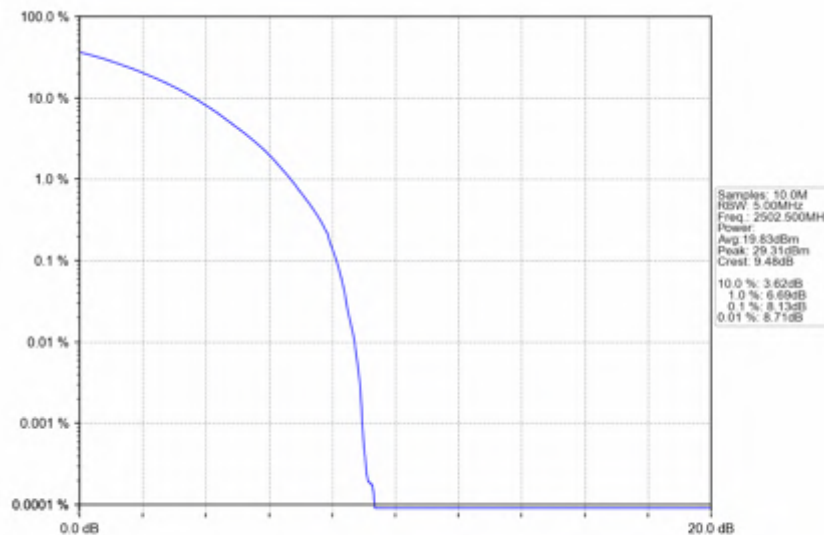
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留學生创业园伟业路18号 邮编 215300

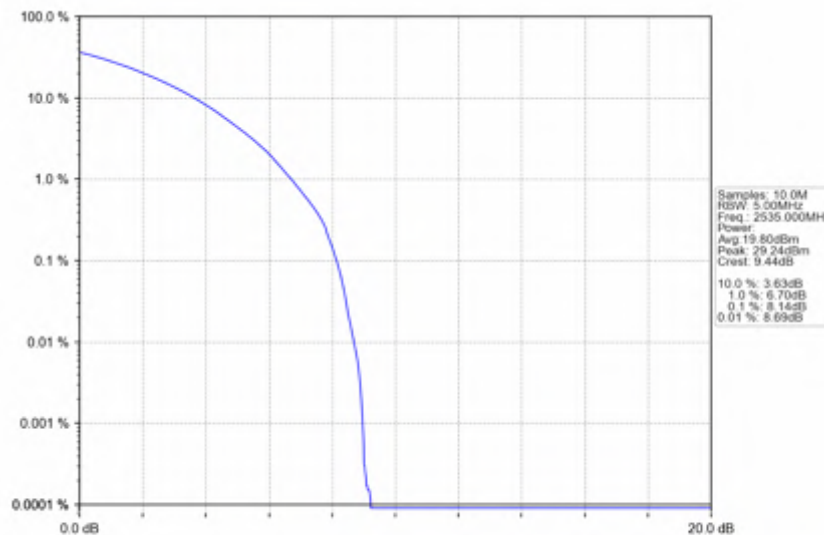
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM_16_QAM_2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full

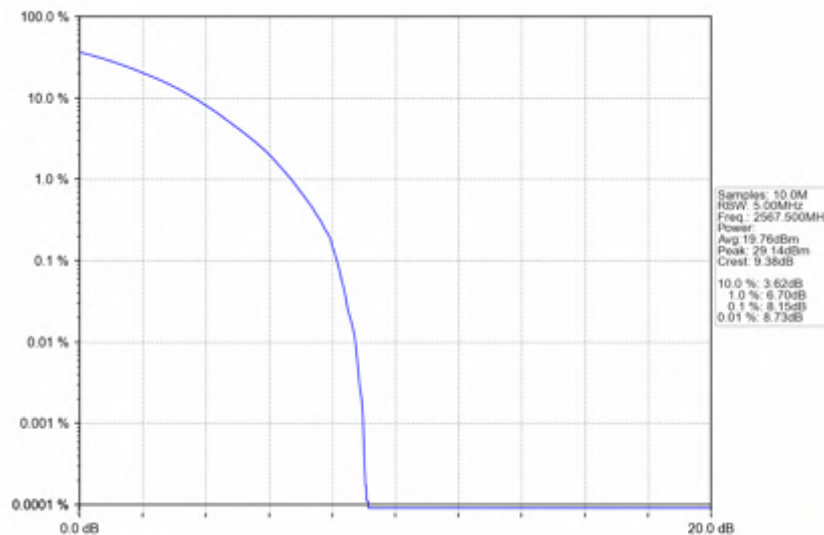


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Online@sgs.com.

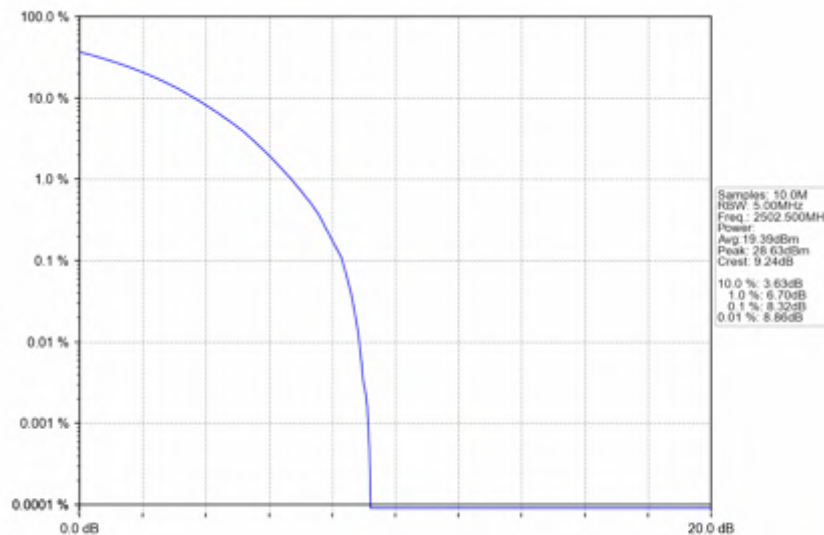
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350888 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM_16_QAM_2567.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_CP-OFDM_64_QAM_2502.5MHz_Outer_Full

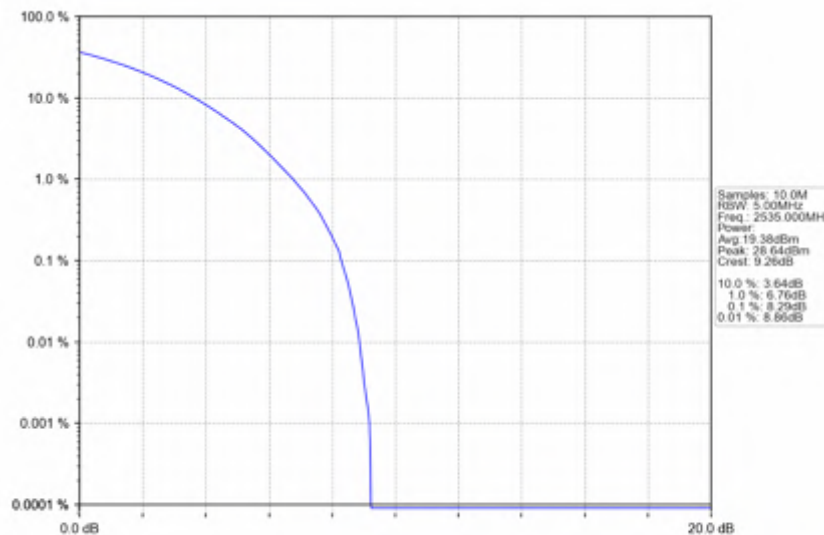


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

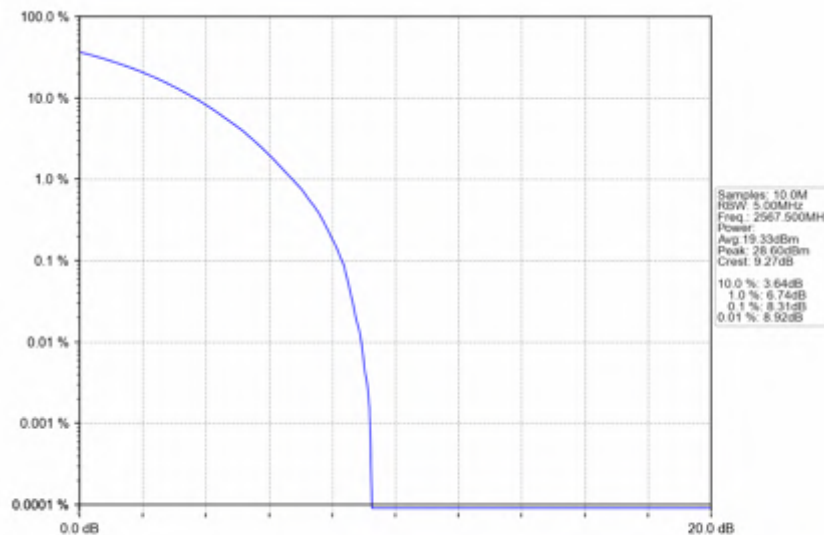
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2567.5MHz_Outer_Full

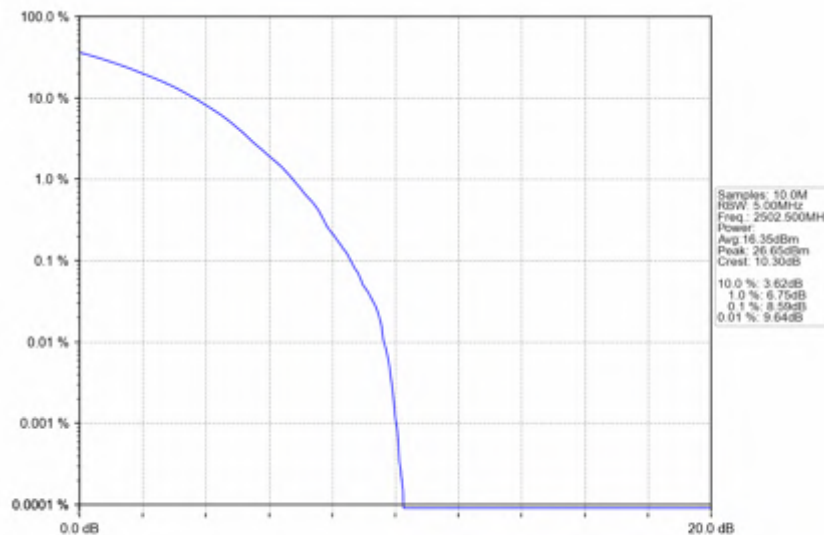


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Check@sgs.com.

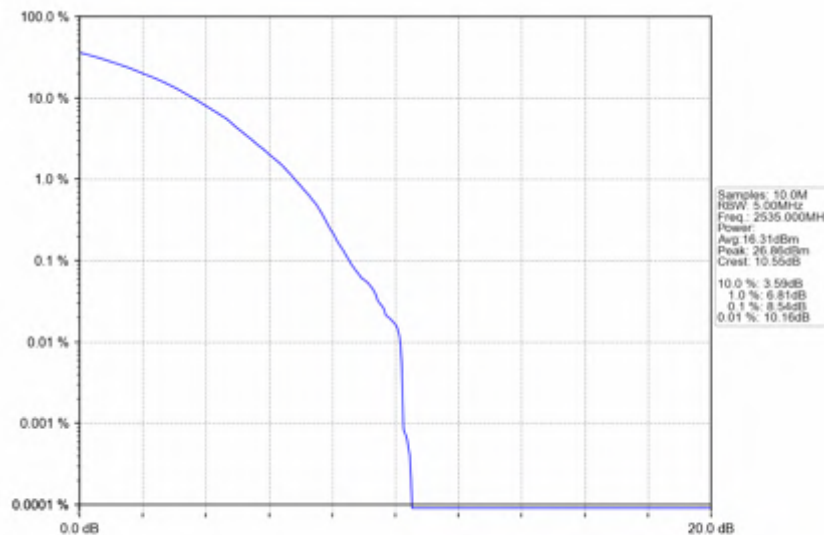
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM 2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM 2535MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

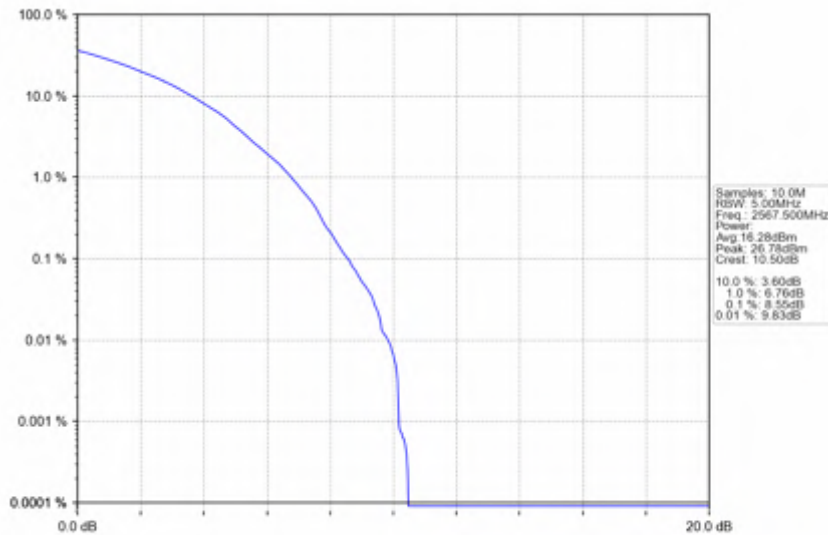
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_5MHz_CP-OFDM_256_QAM_2567.5MHz_Outer_Full



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-a-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 notification report & certificate, please connect us at telephone: (+86-512) 57370011 or email: CH.Official@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0086-512/57350888 0086-512/57370011 www.sgs.com.cn

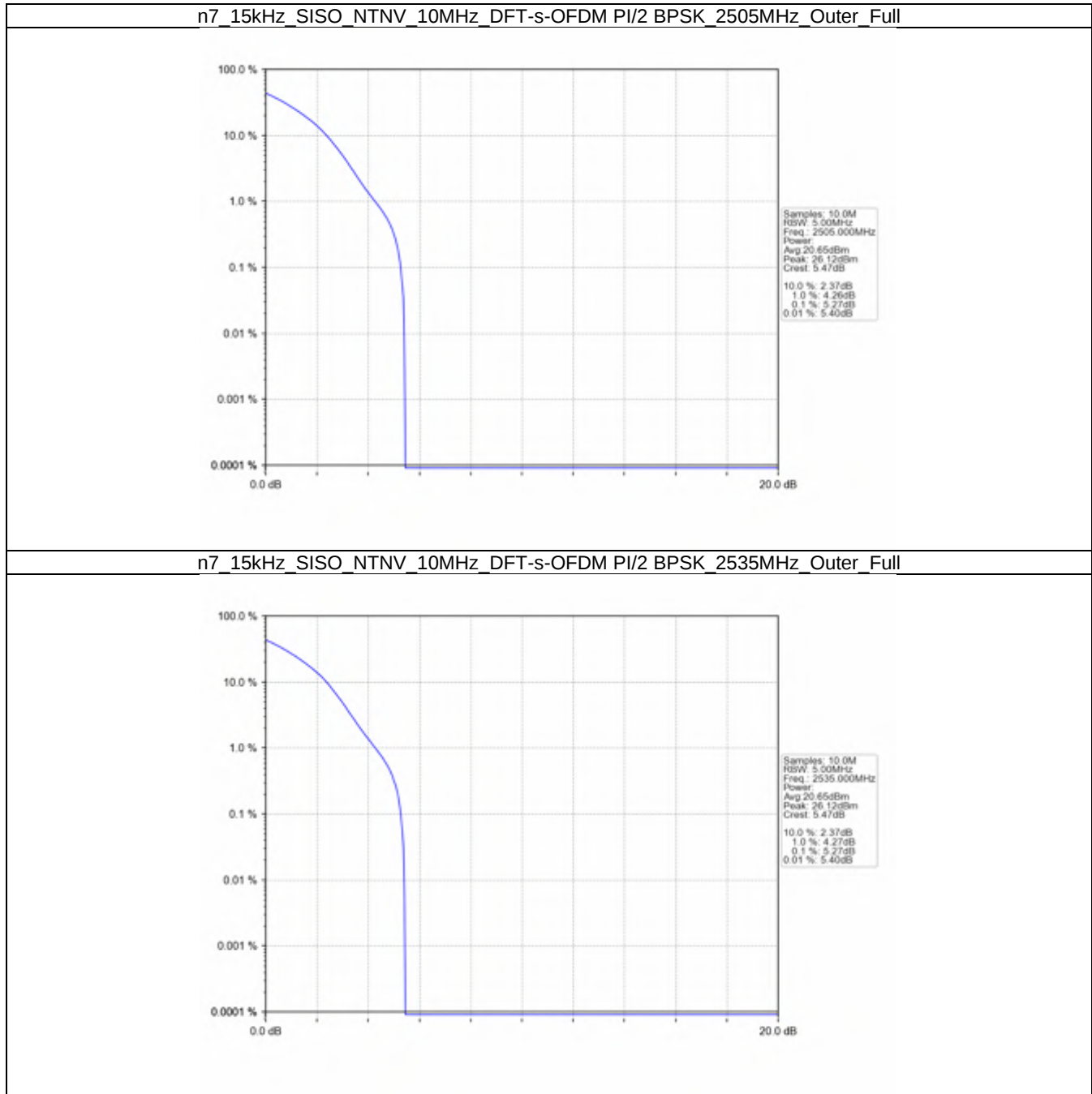
0086-512/57350888 0086-512/57370011 sgs.china@sgs.com

3.2 15k_SISO_10MHz_NTNV

3.2.1 Test Result

5G NR n7 SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2505	Outer_Full	5.27	/	/	<=13	Pass
	2535	Outer_Full	5.27	/	/	<=13	Pass
	2565	Outer_Full	5.29	/	/	<=13	Pass
DFT-s-OFDM QPSK	2505	Outer_Full	5.42	/	/	<=13	Pass
	2535	Outer_Full	5.43	/	/	<=13	Pass
	2565	Outer_Full	5.44	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2505	Outer_Full	6.56	/	/	<=13	Pass
	2535	Outer_Full	6.45	/	/	<=13	Pass
	2565	Outer_Full	6.56	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2505	Outer_Full	6.74	/	/	<=13	Pass
	2535	Outer_Full	6.70	/	/	<=13	Pass
	2565	Outer_Full	6.70	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2505	Outer_Full	6.97	/	/	<=13	Pass
	2535	Outer_Full	6.91	/	/	<=13	Pass
	2565	Outer_Full	6.86	/	/	<=13	Pass
CP-OFDM QPSK	2505	Outer_Full	8.18	/	/	<=13	Pass
	2535	Outer_Full	8.20	/	/	<=13	Pass
	2565	Outer_Full	8.21	/	/	<=13	Pass
CP-OFDM 16 QAM	2505	Outer_Full	8.40	/	/	<=13	Pass
	2535	Outer_Full	8.41	/	/	<=13	Pass
	2565	Outer_Full	8.42	/	/	<=13	Pass
CP-OFDM 64 QAM	2505	Outer_Full	8.41	/	/	<=13	Pass
	2535	Outer_Full	8.44	/	/	<=13	Pass
	2565	Outer_Full	8.41	/	/	<=13	Pass
CP-OFDM 256 QAM	2505	Outer_Full	8.50	/	/	<=13	Pass
	2535	Outer_Full	8.51	/	/	<=13	Pass
	2565	Outer_Full	8.49	/	/	<=13	Pass

3.2.2 Test Graph



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011 or email: CN-Online@sgs.com.

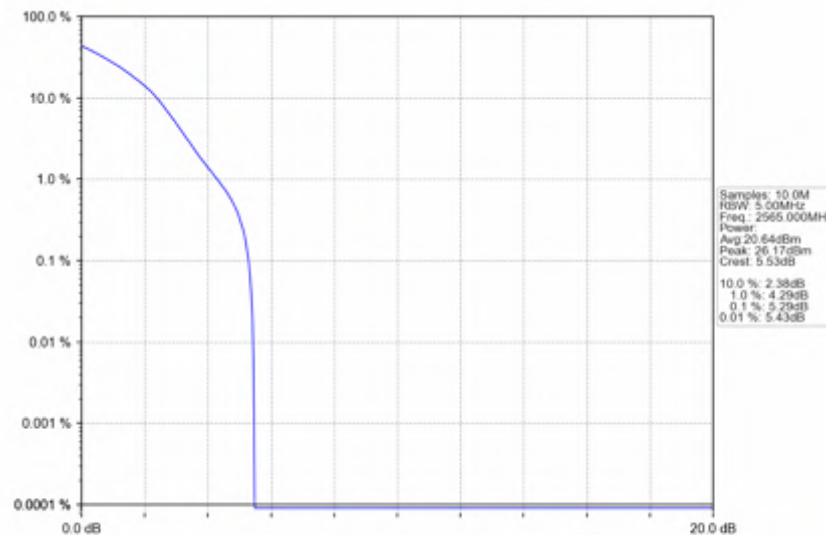
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

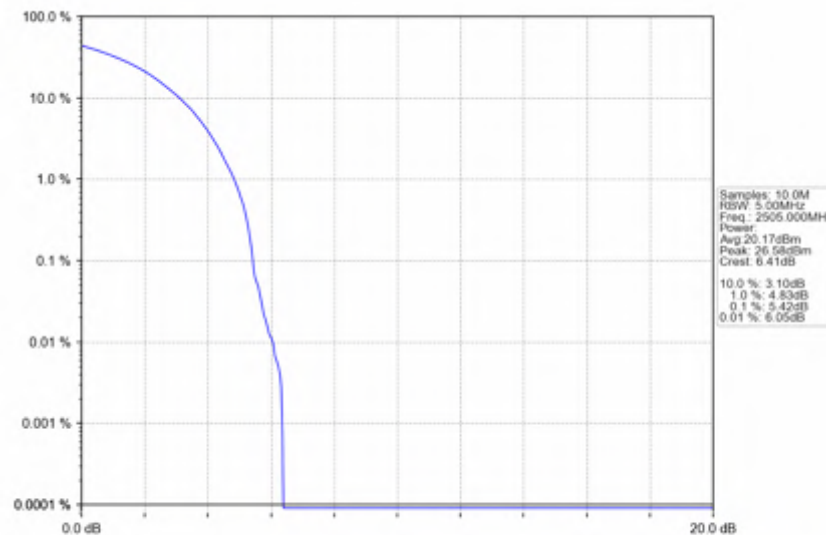
0086-512/57350888 006-512/57370011 www.sgs.com.cn

0086-512/57350888 006-512/57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2565MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2505MHz_Outer_Full

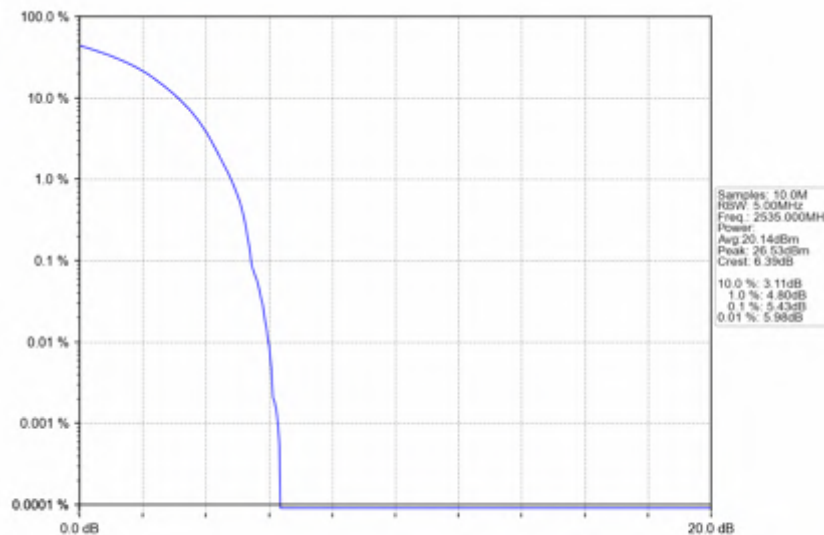


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Check@sgs.com

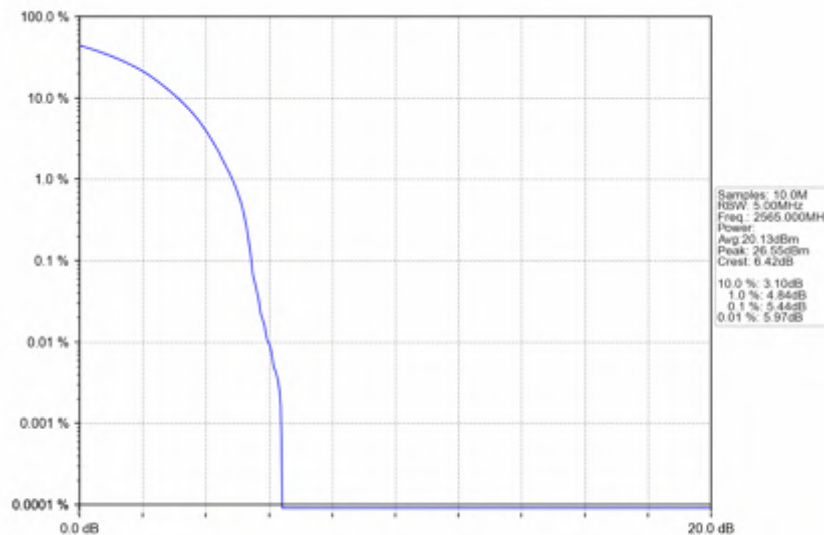
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_2565MHz_Outer_Full



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-a-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 report and certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

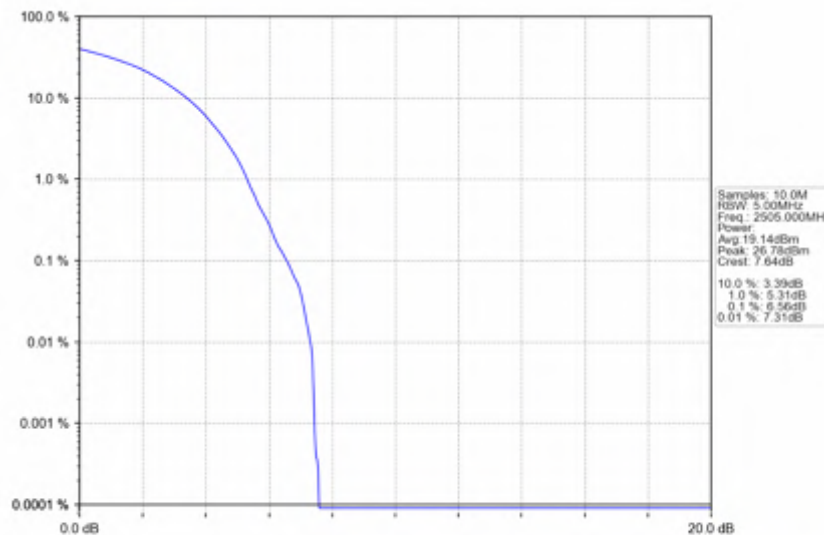
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

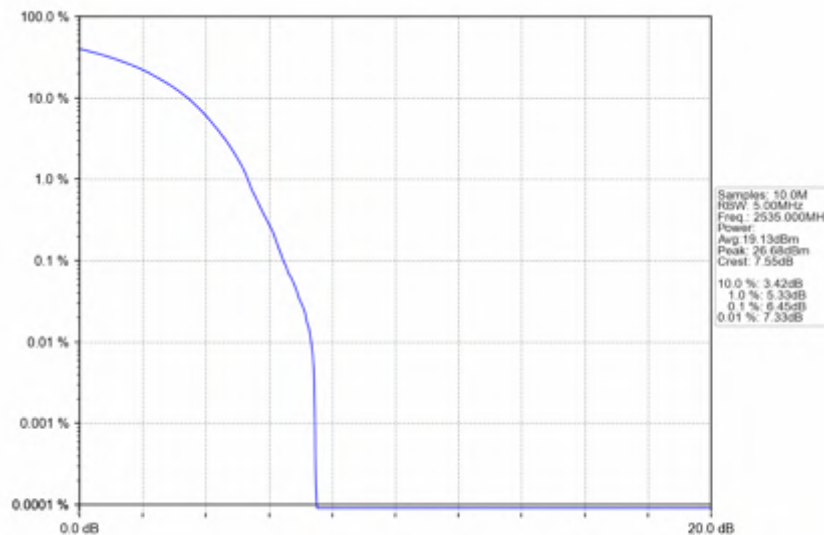
(86-512) 57350888 (86-512) 57370010 www.sgs.com.cn

(86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2505MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



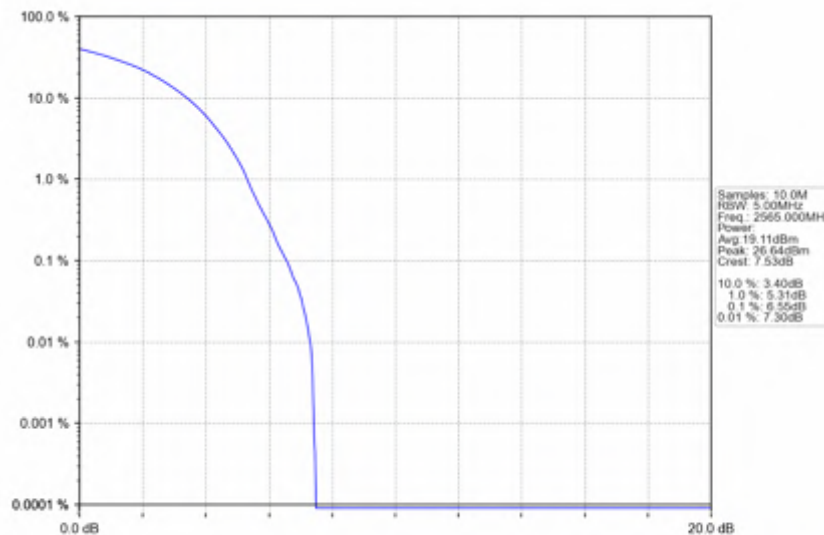
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Online@sgs.com.

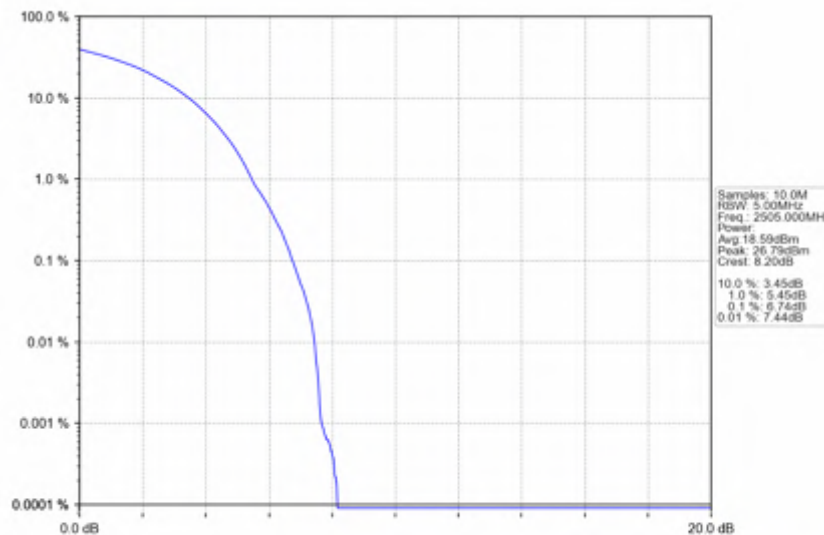
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0086-51257350888 006-51257370000 www.sgs.com.cn
0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16 QAM_2565MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64 QAM_2505MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

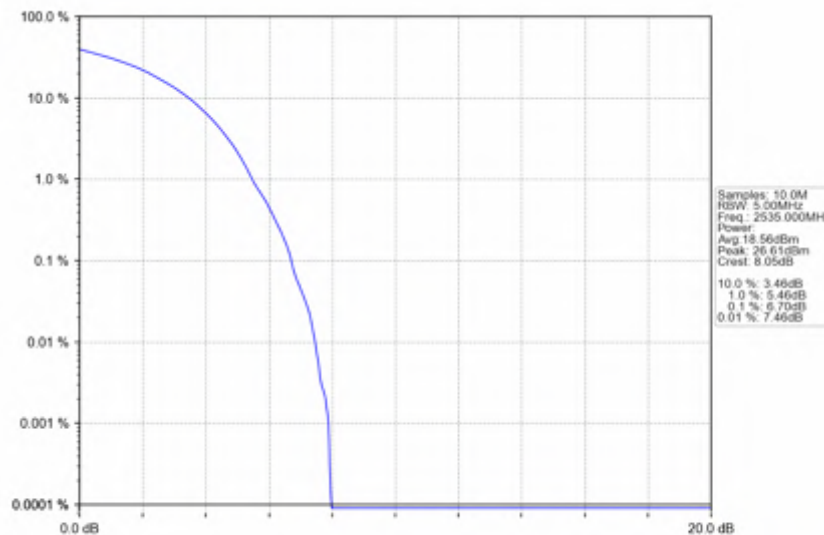
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

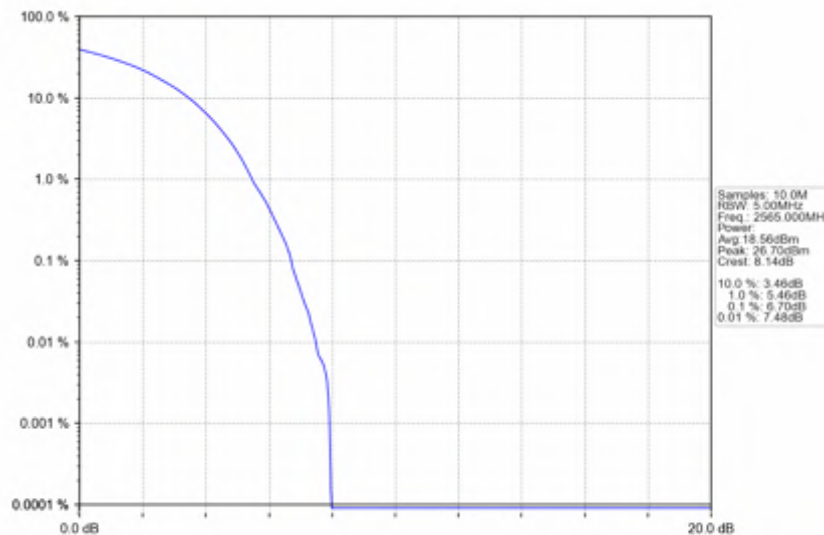
0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2565MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Check@sgs.com.

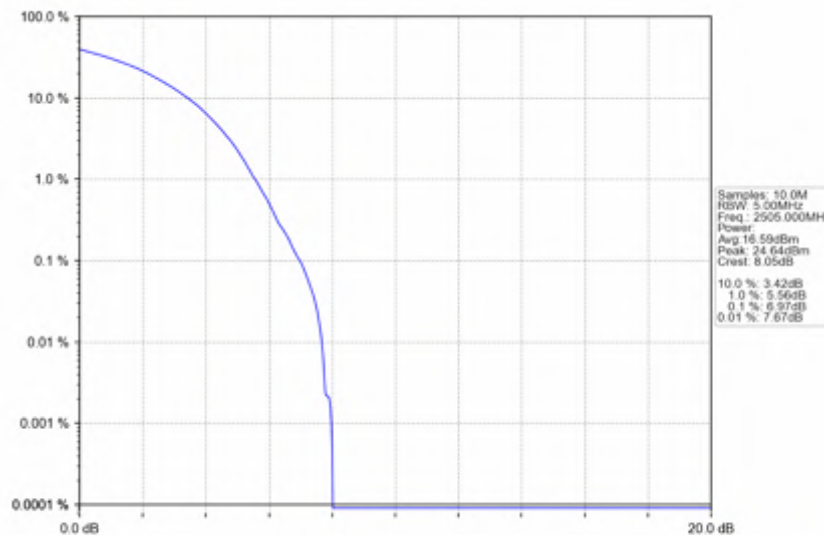
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路18号 邮编 215300

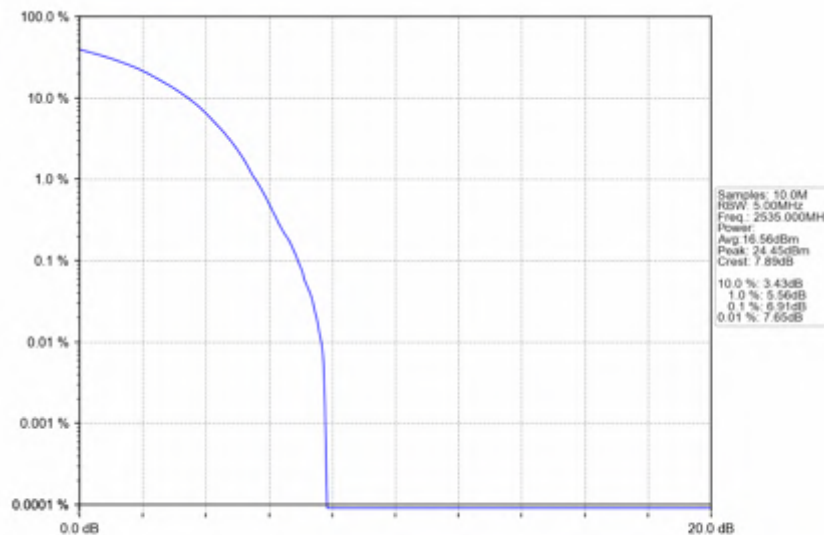
0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2505MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



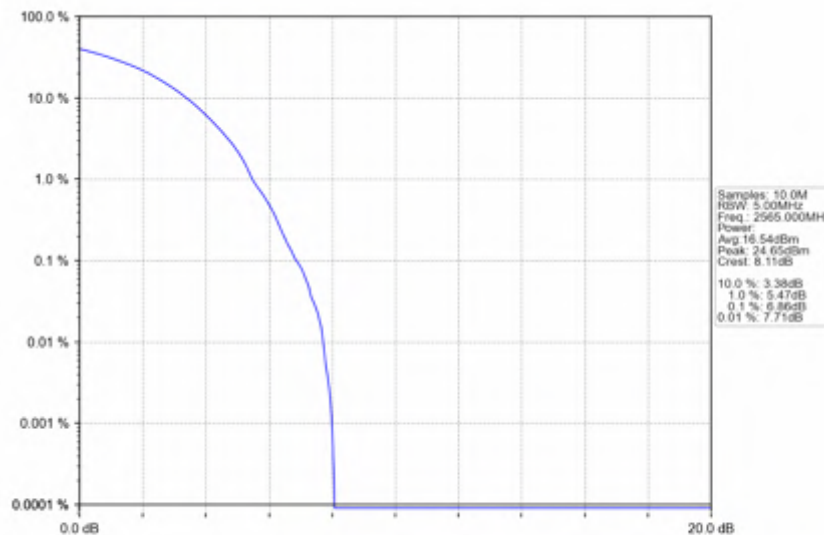
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Check@sgs.com.

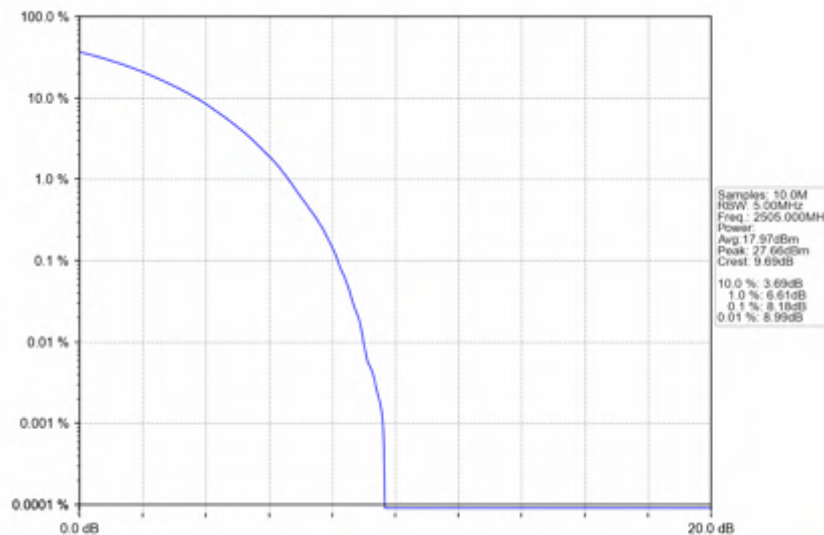
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
(86-512)57350883 (86-512)57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2565MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_2505MHz_Outer_Full

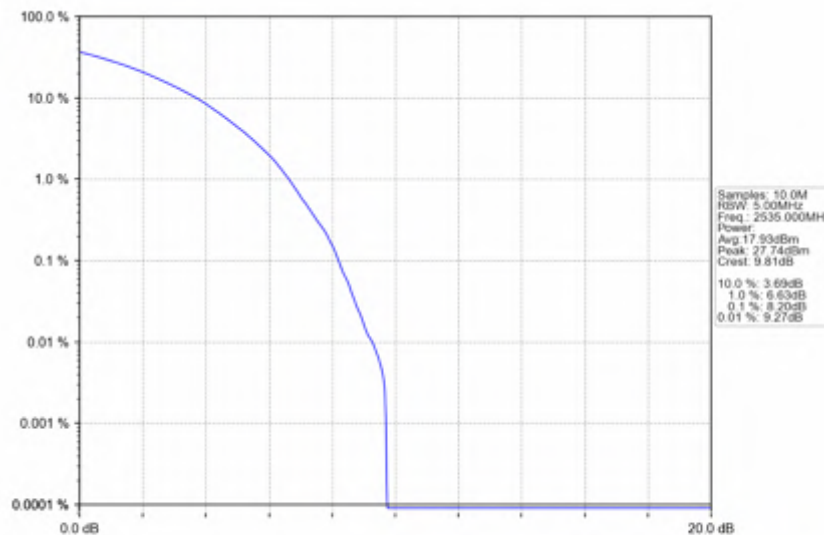


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 conclusion report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

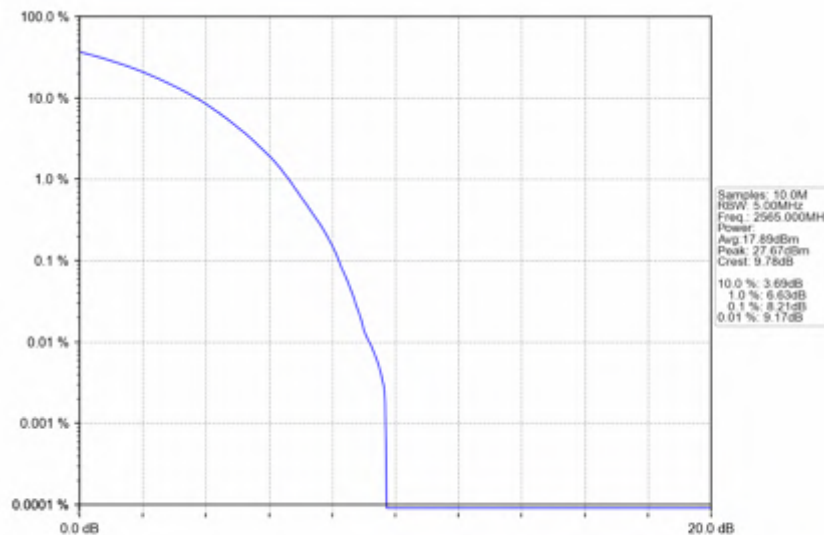
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370010 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2565MHz_Outer_Full

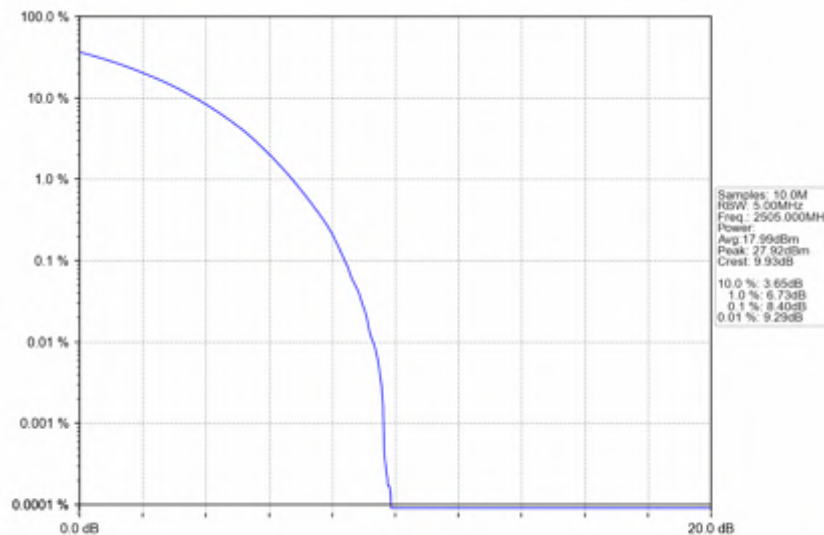


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

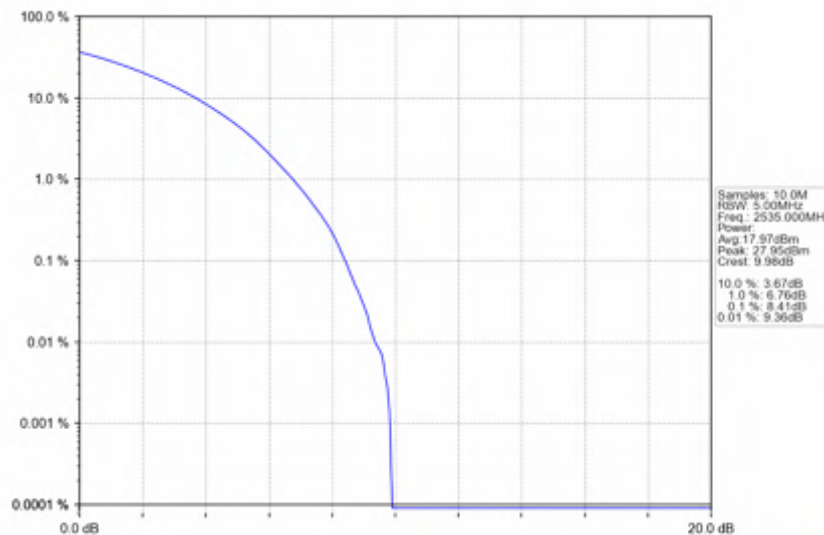
Attention: To Check the authenticity of testing certification report & certificate, please connect us at sgs@sgs.com or CN-Online@sgs.com.
 No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0512-57350888 0512-57370910 www.sgs.com.cn
 0512-57350883 0512-57370911 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2505MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full

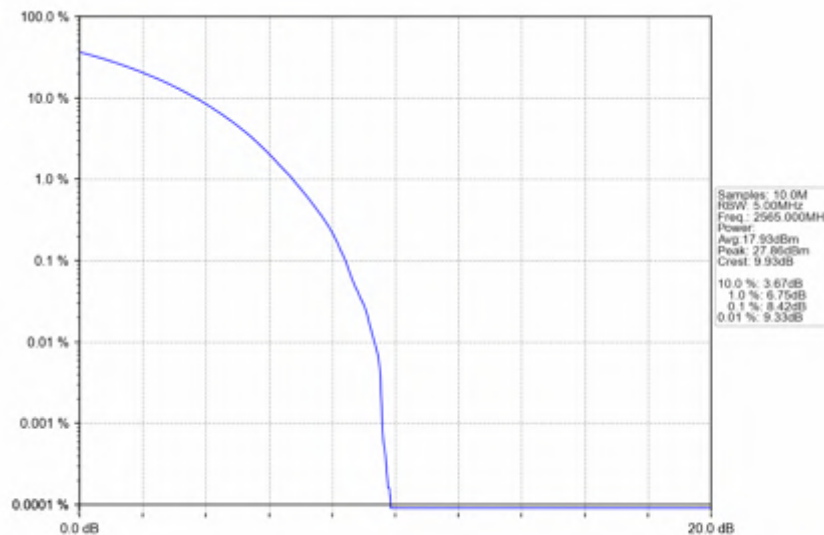


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Check@sgs.com.

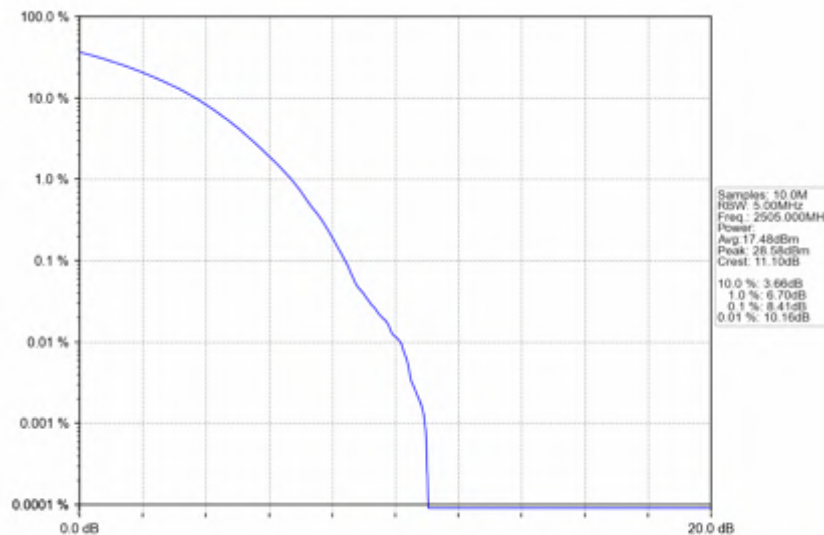
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2565MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2505MHz_Outer_Full



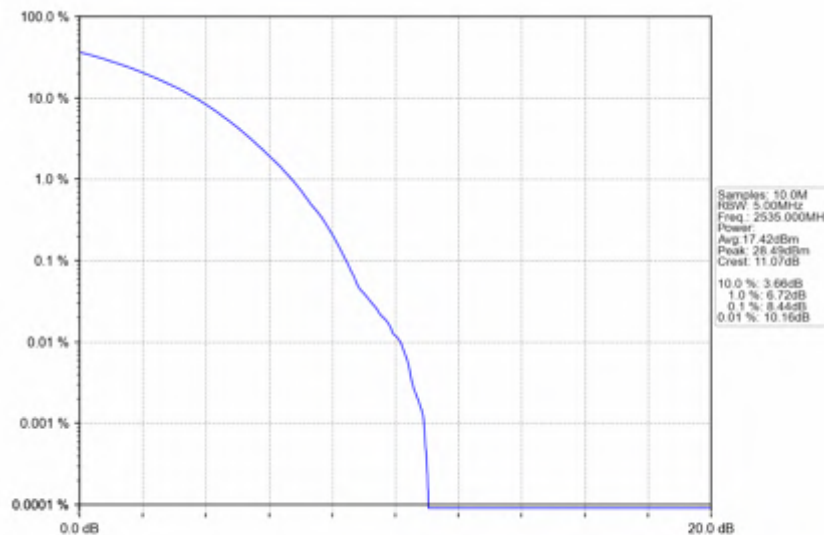
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

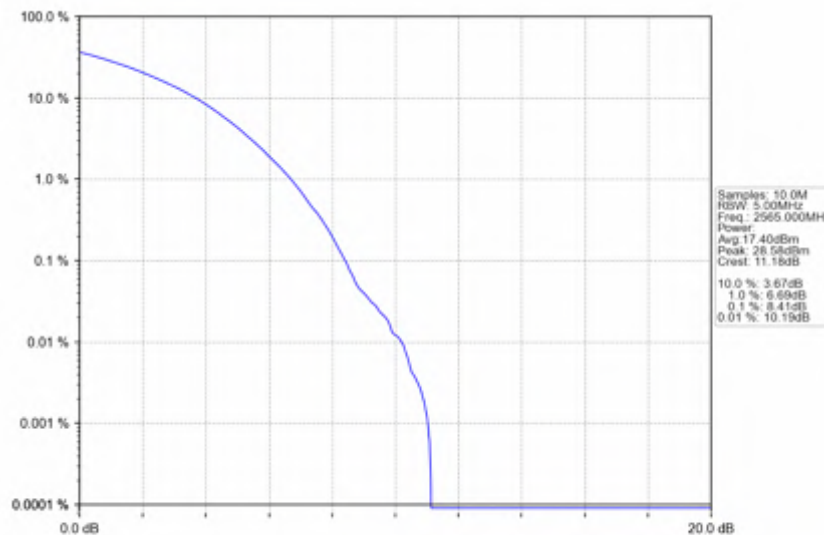
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

086-51257350888 086-51257370000 www.sgs.com.cn
 086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2565MHz_Outer_Full

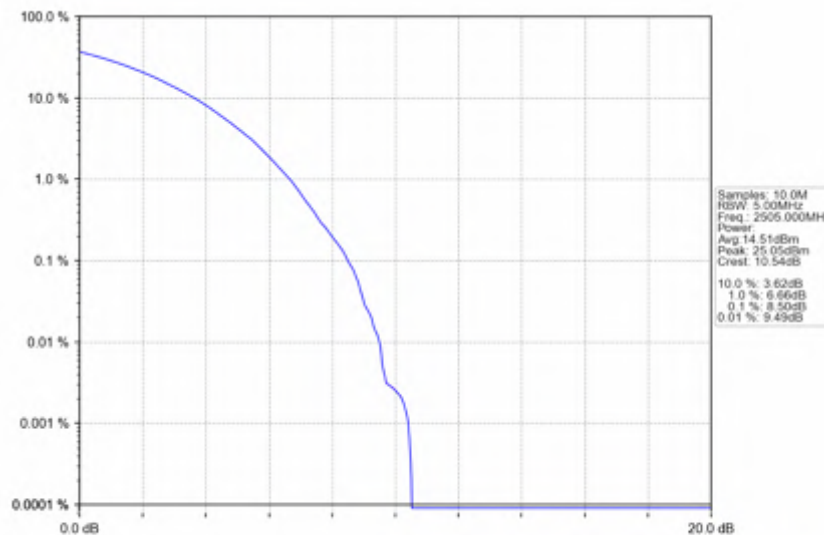


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57350000
 or email: CN-Check@sgs.com.

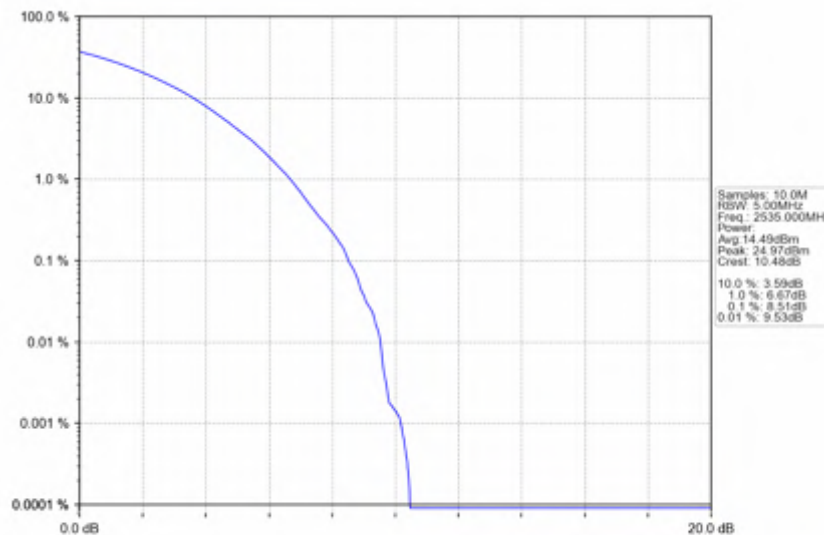
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350000 (86-512)57370011 www.sgs.com.cn
 (86-512)57350000 (86-512)57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2505MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full

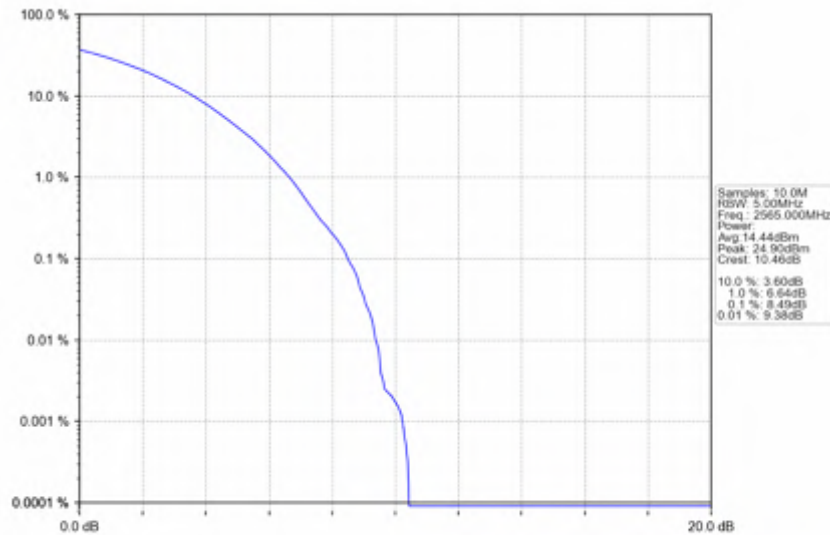


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2565MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at telephone: (86-512) 57370011 or email: CH.Official@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn

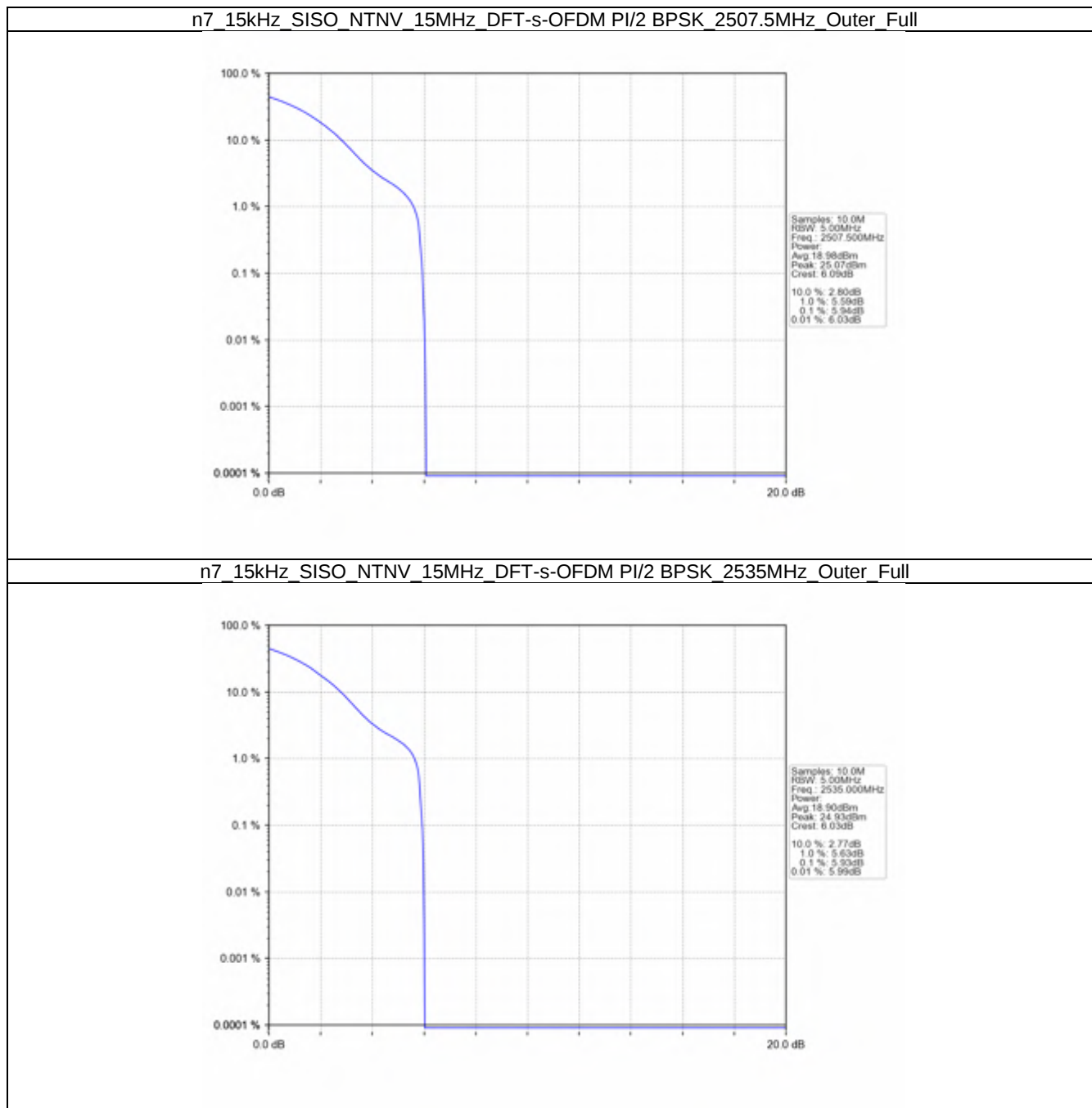
(86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

3.3 15k_SISO_15MHz_NTNV

3.3.1 Test Result

5G NR n7 SCS=15kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2507.5	Outer_Full	5.94	/	/	<=13	Pass
	2535	Outer_Full	5.93	/	/	<=13	Pass
	2562.5	Outer_Full	5.95	/	/	<=13	Pass
DFT-s-OFDM QPSK	2507.5	Outer_Full	6.27	/	/	<=13	Pass
	2535	Outer_Full	6.10	/	/	<=13	Pass
	2562.5	Outer_Full	6.11	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2507.5	Outer_Full	6.93	/	/	<=13	Pass
	2535	Outer_Full	7.05	/	/	<=13	Pass
	2562.5	Outer_Full	6.86	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2507.5	Outer_Full	6.94	/	/	<=13	Pass
	2535	Outer_Full	6.97	/	/	<=13	Pass
	2562.5	Outer_Full	6.92	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2507.5	Outer_Full	7.20	/	/	<=13	Pass
	2535	Outer_Full	7.45	/	/	<=13	Pass
	2562.5	Outer_Full	7.62	/	/	<=13	Pass
CP-OFDM QPSK	2507.5	Outer_Full	8.38	/	/	<=13	Pass
	2535	Outer_Full	8.47	/	/	<=13	Pass
	2562.5	Outer_Full	8.45	/	/	<=13	Pass
CP-OFDM 16 QAM	2507.5	Outer_Full	8.58	/	/	<=13	Pass
	2535	Outer_Full	8.65	/	/	<=13	Pass
	2562.5	Outer_Full	8.62	/	/	<=13	Pass
CP-OFDM 64 QAM	2507.5	Outer_Full	8.43	/	/	<=13	Pass
	2535	Outer_Full	8.42	/	/	<=13	Pass
	2562.5	Outer_Full	8.42	/	/	<=13	Pass
CP-OFDM 256 QAM	2507.5	Outer_Full	8.55	/	/	<=13	Pass
	2535	Outer_Full	8.61	/	/	<=13	Pass
	2562.5	Outer_Full	8.59	/	/	<=13	Pass

3.3.2 Test Graph



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-a-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 herein 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 report and certificate, please connect us at sgs@sgs.com or CN-Check@sgs.com.

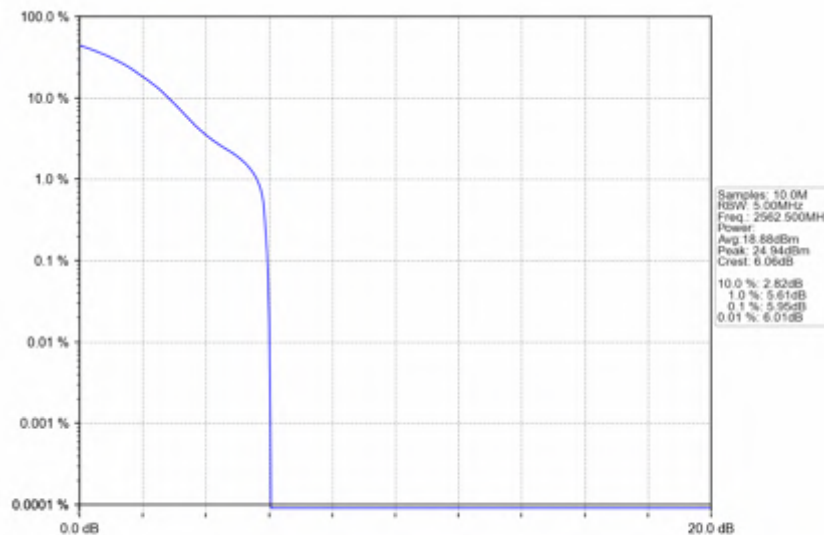
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

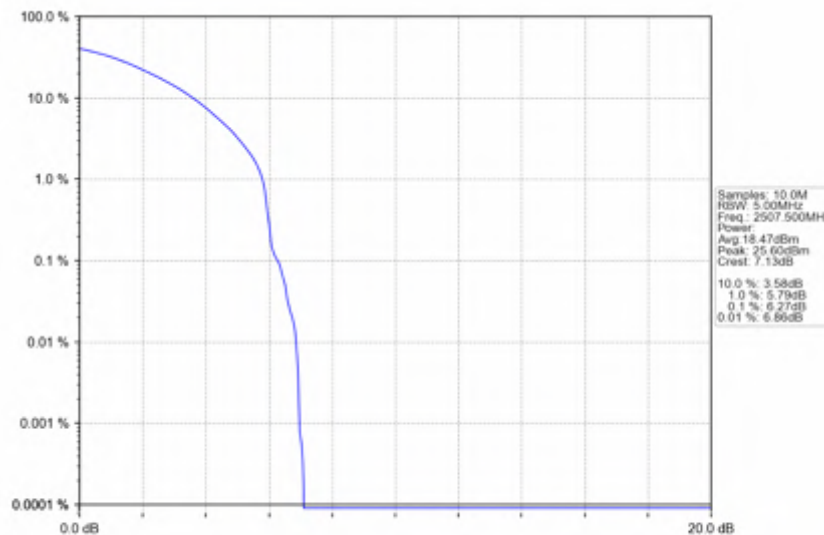
0512-57350888 0512-57370910 www.sgs.com.cn

0512-57350883 0512-57370911 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2562.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2507.5MHz_Outer_Full



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-a-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 report and certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Online@sgs.com.

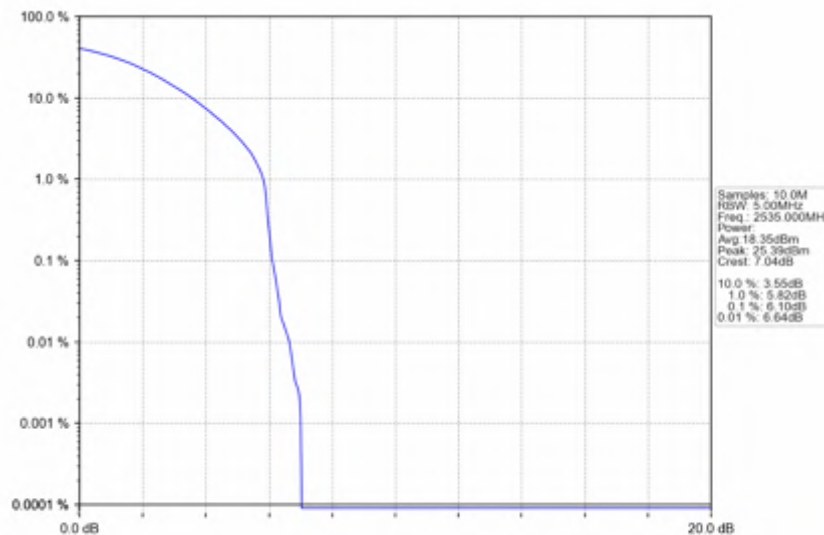
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

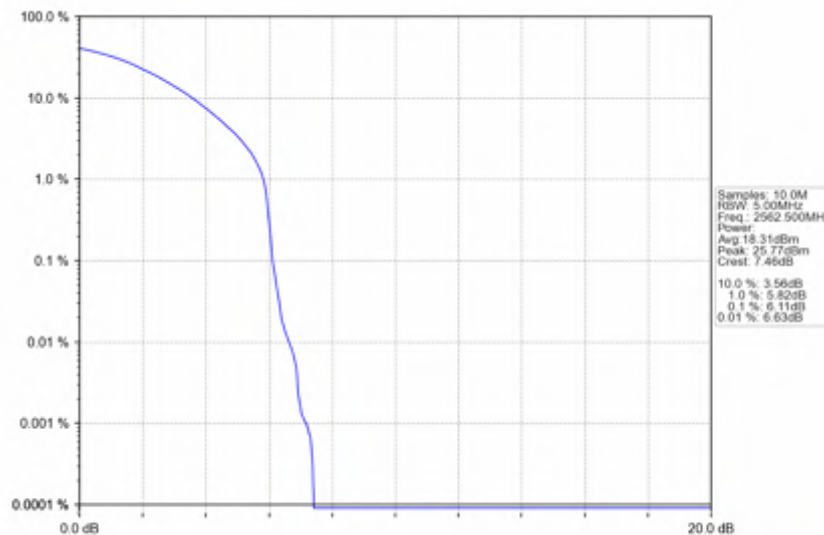
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_2562.5MHz_Outer_Full

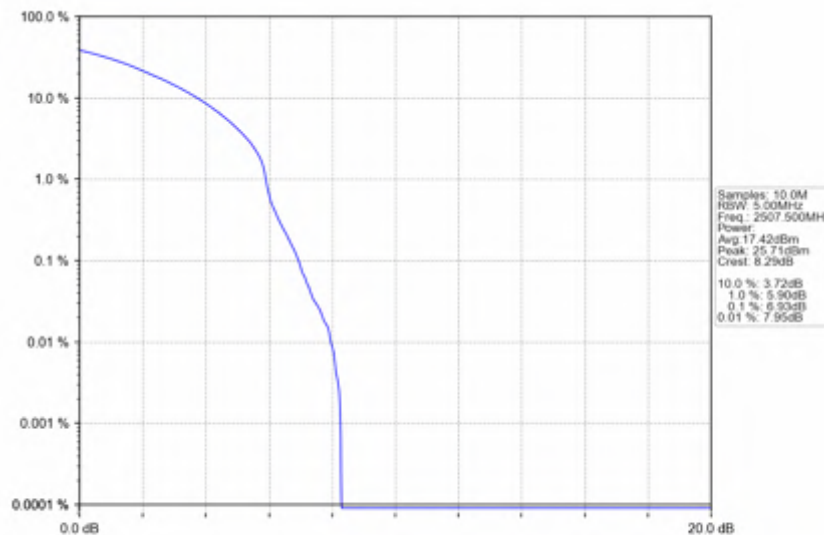


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report and certificate, please connect us at sgs@sgs.com (86-512)57370011
 or email: CN-Online@sgs.com.

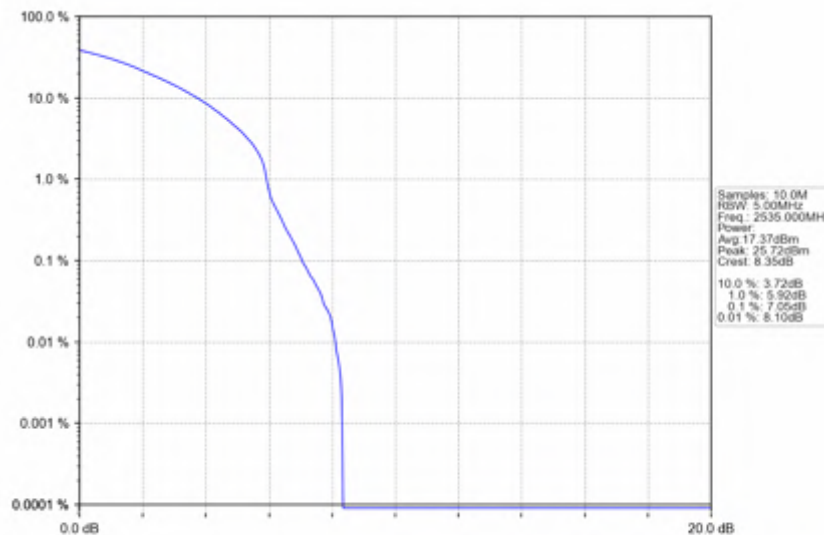
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
 (86-512)57350888 (86-512)57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2507.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full

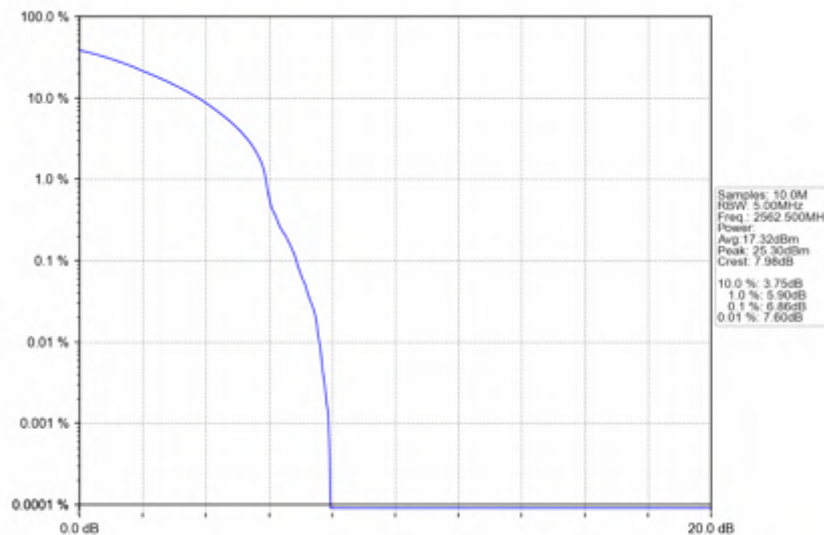


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

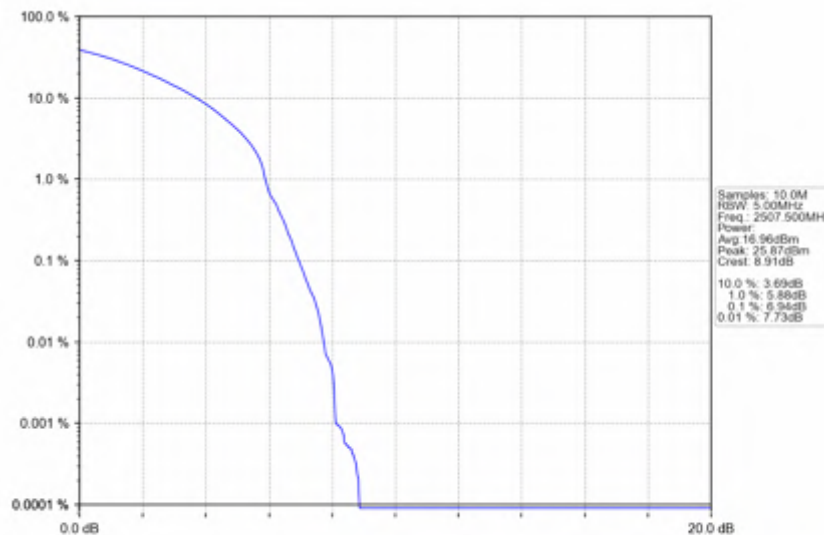
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370010 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2562.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2507.5MHz_Outer_Full

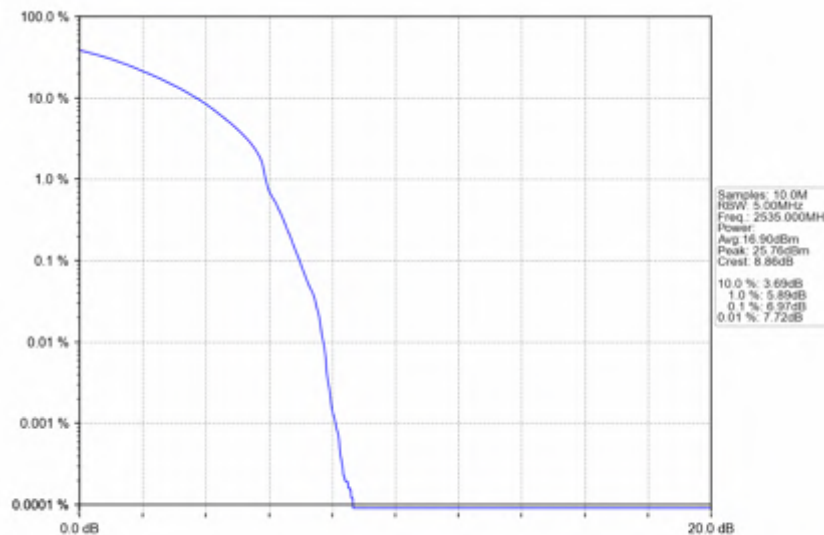


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at china@sgs.com (86-512)57370011
 or email: CN-Check@sgs.com.

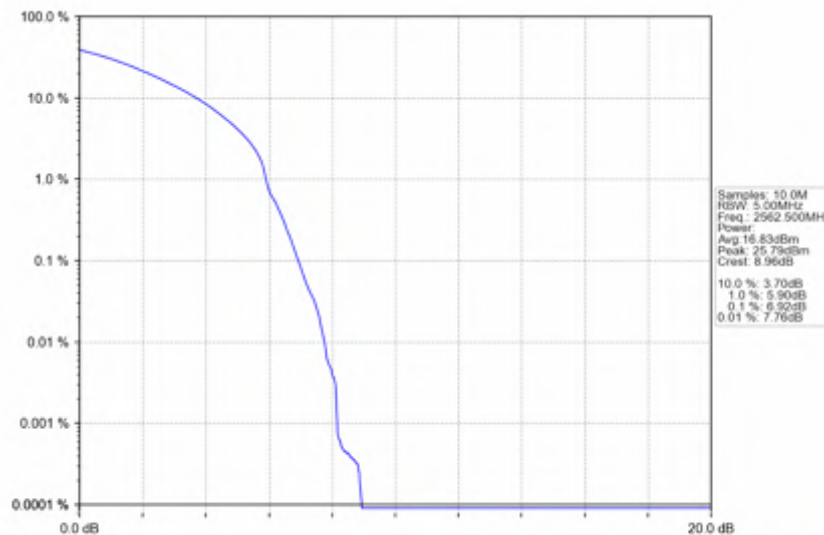
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
 (86-512)57350883 (86-512)57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2562.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Online@sgs.com.

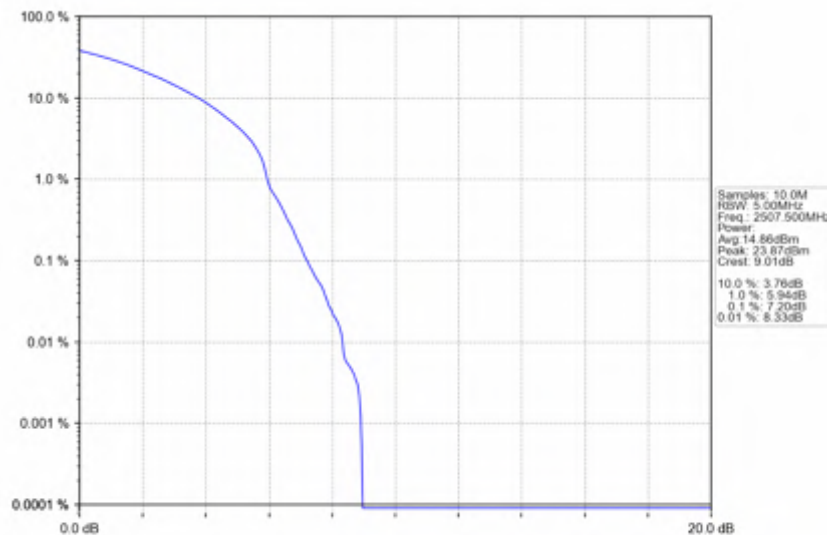
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

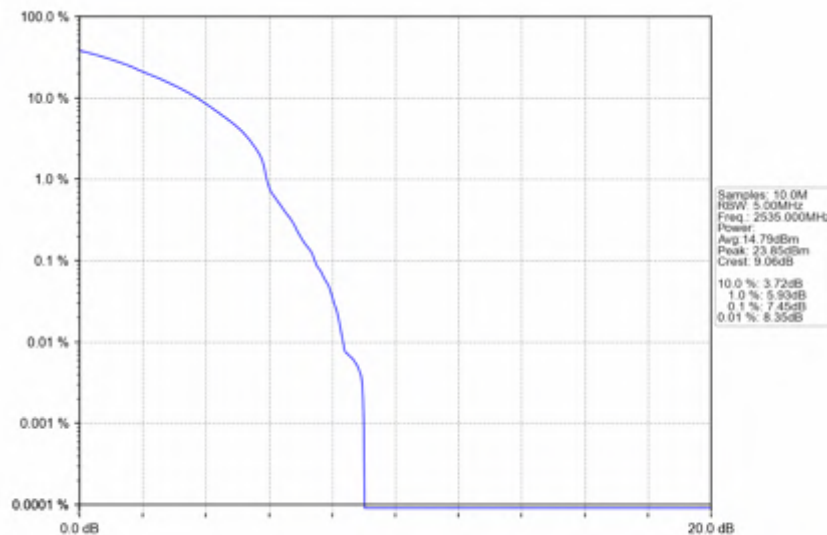
0086-51257370000 006-51257370000 www.sgs.com.cn

0086-51257370000 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2507.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011 or email: CN-Online@sgs.com.

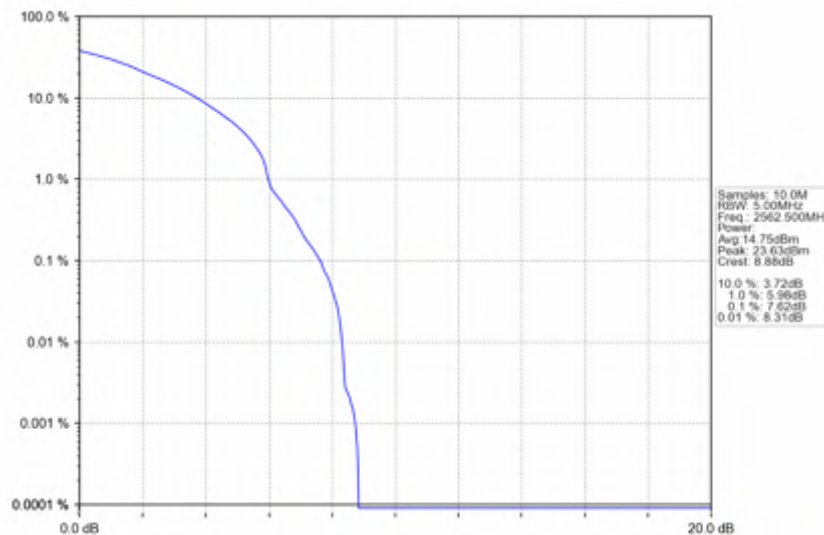
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

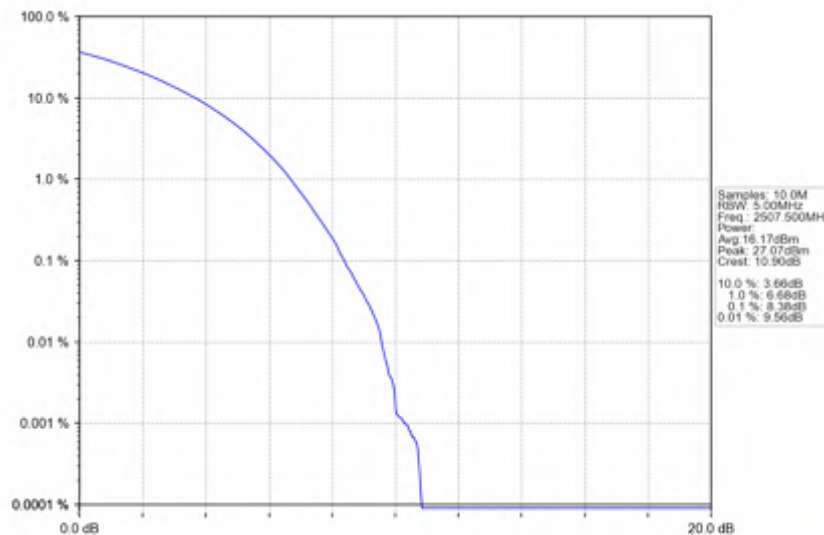
0086-51257350888 006-51257370011 www.sgs.com.cn

0086-51257350888 006-51257370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2562.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2507.5MHz_Outer_Full

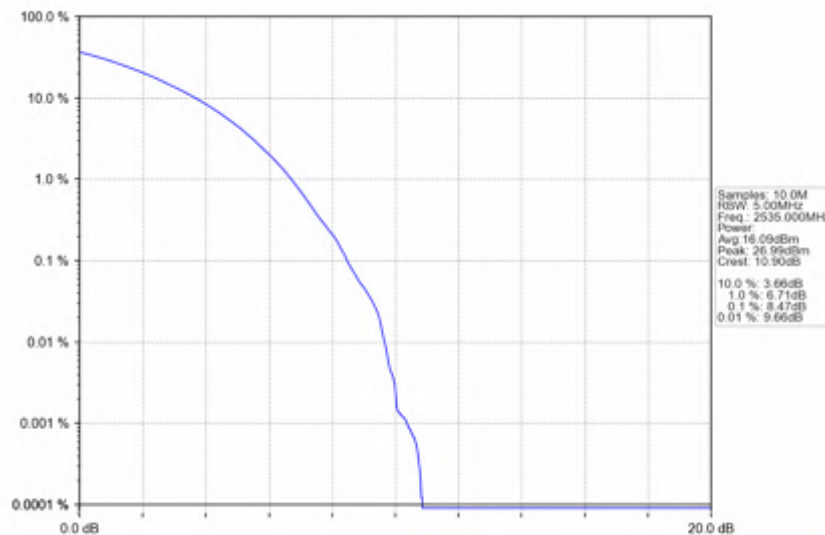


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011
 or email: CN-Online@sgs.com.

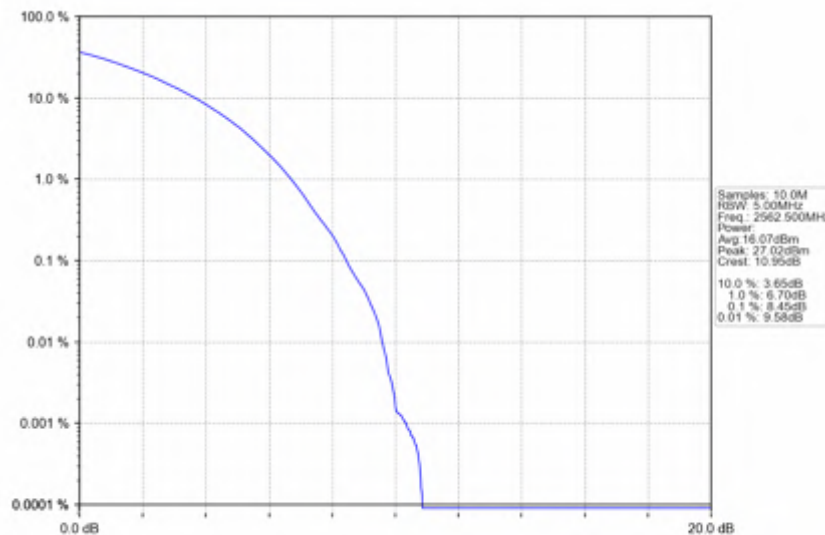
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
 (86-512)57350888 (86-512)57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2562.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com or CN-Check@sgs.com.

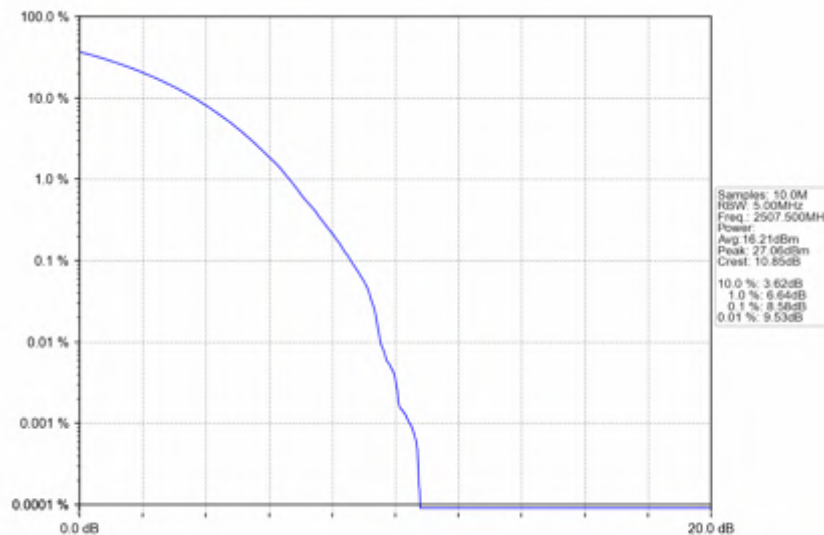
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

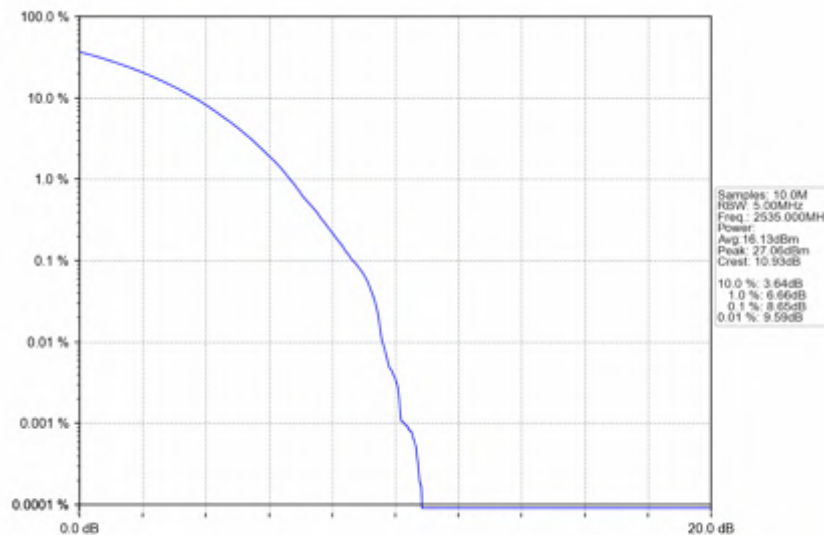
0512-57350888 0512-57370910 www.sgs.com.cn

0512-57350883 0512-57370911 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2507.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full



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-a-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 report and certificate, please connect us at sgs@sgs.com or CN-Check@sgs.com.

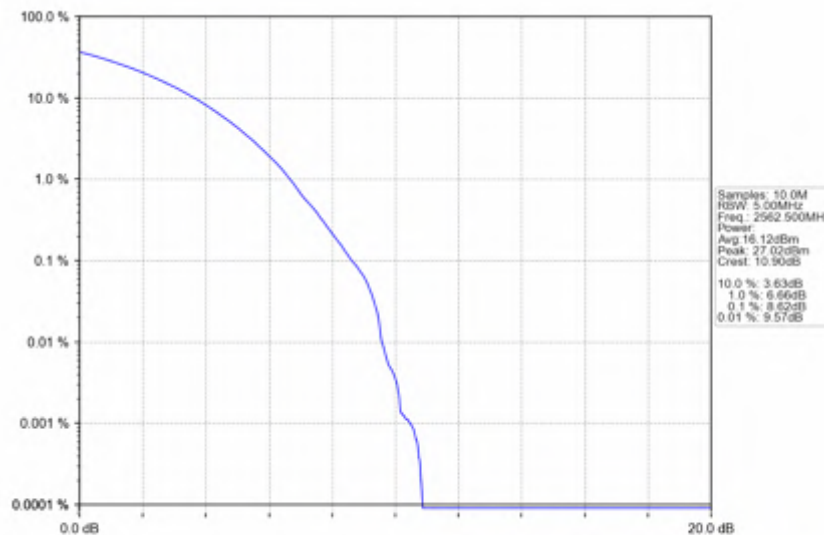
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

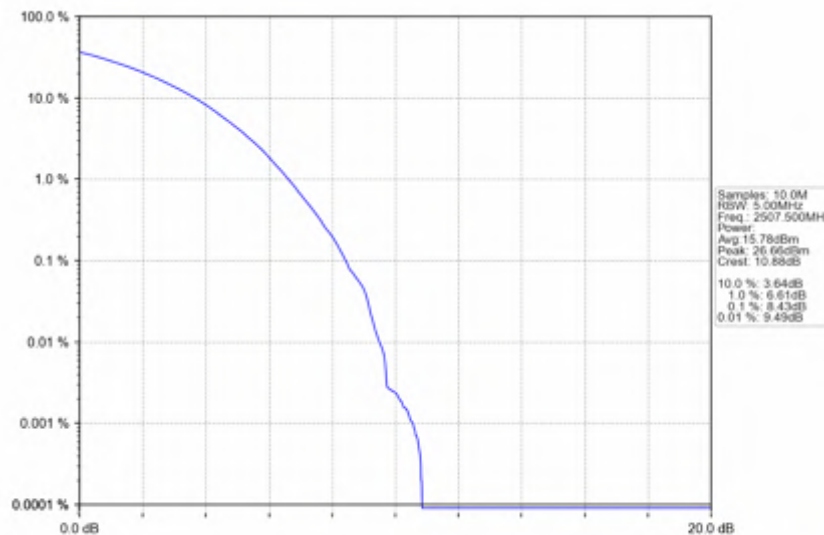
0512-5125735000 0512-5125737000 www.sgs.com.cn

0512-5125735000 0512-5125737000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2562.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_2507.5MHz_Outer_Full

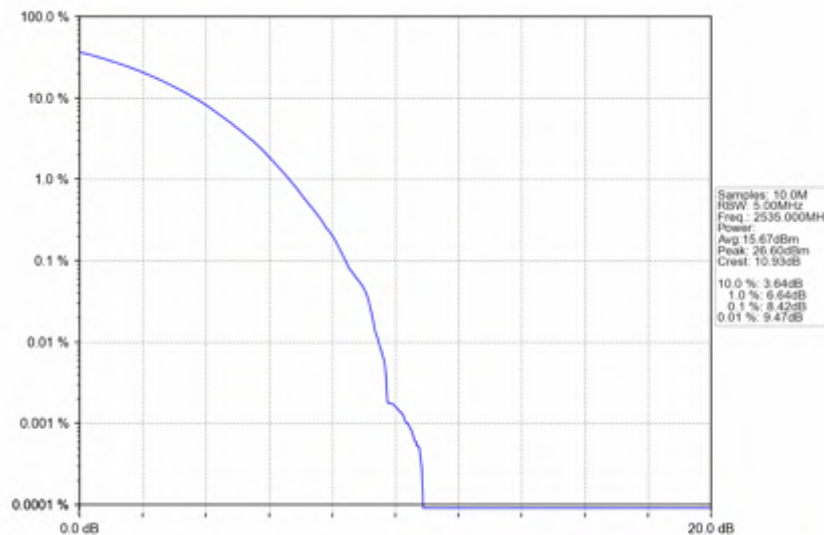


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report or certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

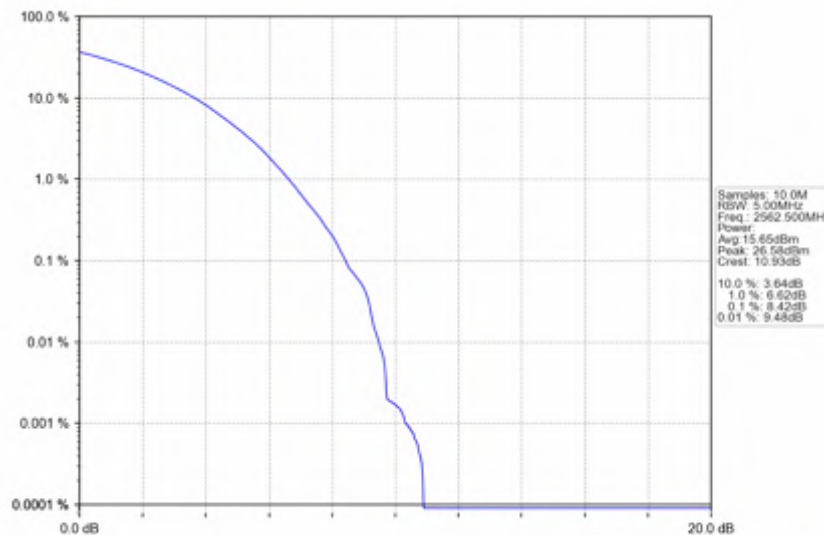
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2562.5MHz_Outer_Full



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-a-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 certification reports & certificates, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Check@sgs.com.

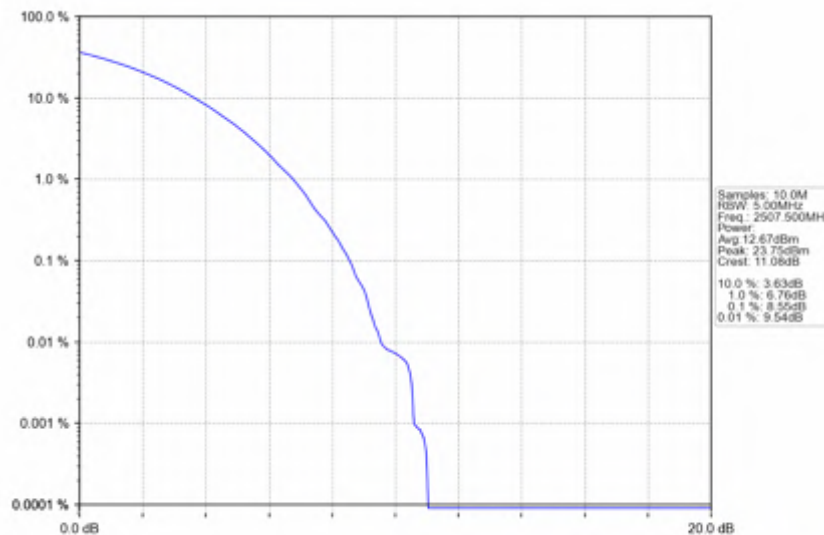
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

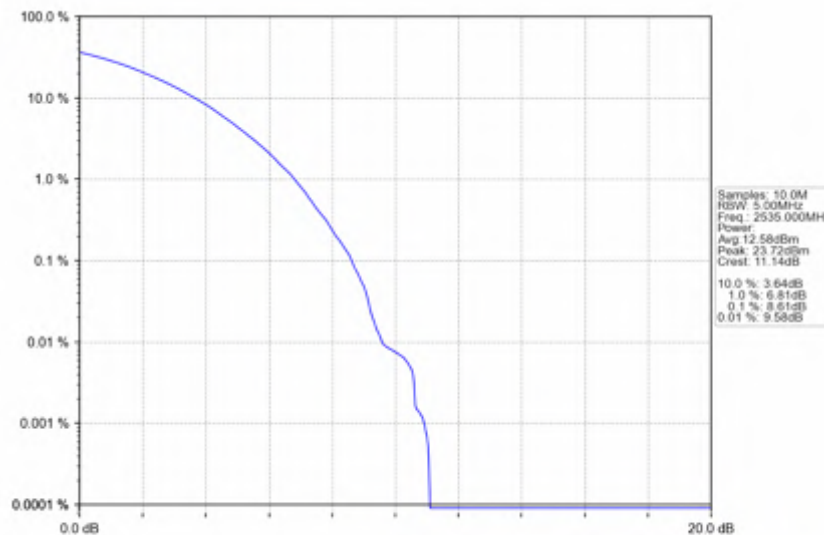
0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2507.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2535MHz_Outer_Full

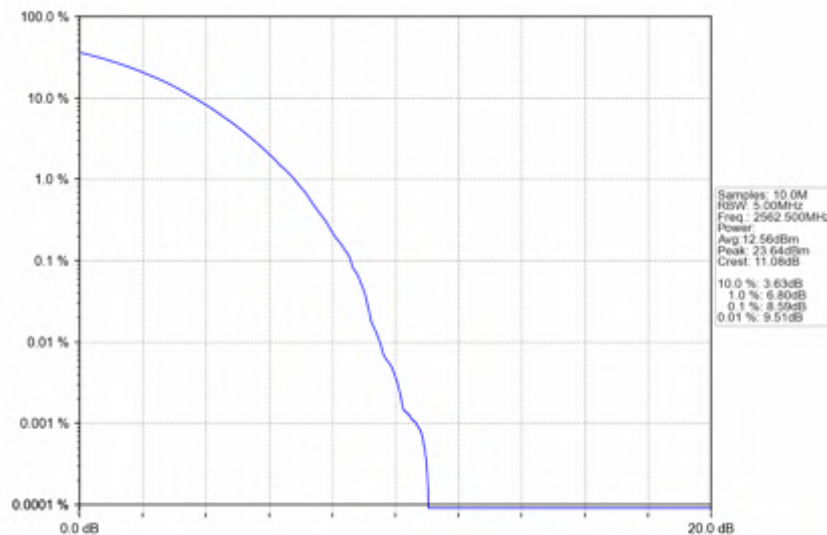


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370010 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2562.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at telephone: (+86-512) 57370011 or email: CH.Official@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

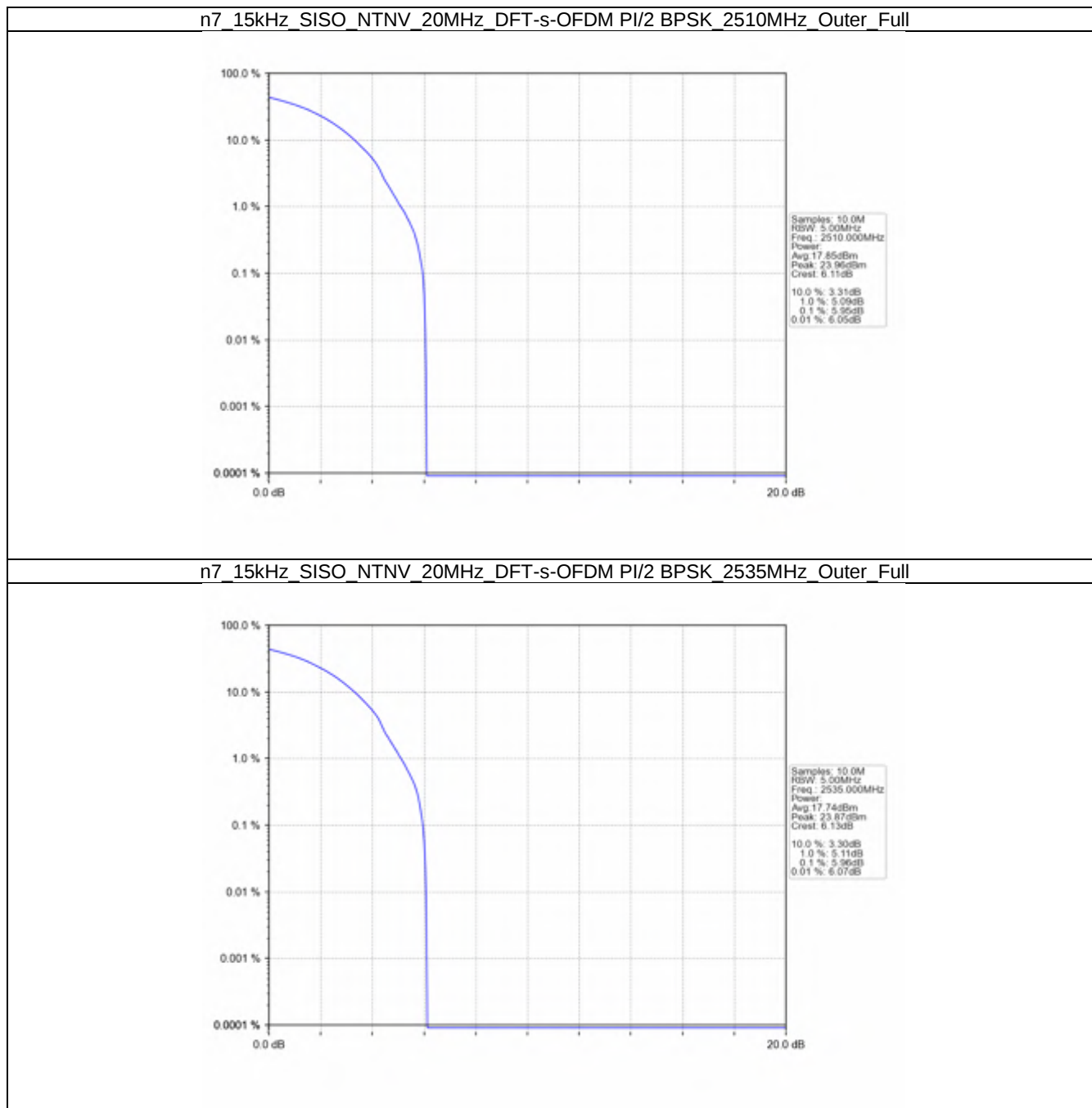
(+86-512) 57350888 (+86-512) 57370011 www.sgs.com.cn
 (+86-512) 57350883 (+86-512) 57370011 sgs.china@sgs.com

3.4 15k_SISO_20MHz_NTNV

3.4.1 Test Result

5G NR n7 SCS=15kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2510	Outer_Full	5.95	/	/	<=13	Pass
	2535	Outer_Full	5.96	/	/	<=13	Pass
	2560	Outer_Full	5.94	/	/	<=13	Pass
DFT-s-OFDM QPSK	2510	Outer_Full	6.55	/	/	<=13	Pass
	2535	Outer_Full	6.83	/	/	<=13	Pass
	2560	Outer_Full	6.73	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2510	Outer_Full	7.12	/	/	<=13	Pass
	2535	Outer_Full	7.34	/	/	<=13	Pass
	2560	Outer_Full	7.23	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2510	Outer_Full	7.19	/	/	<=13	Pass
	2535	Outer_Full	7.20	/	/	<=13	Pass
	2560	Outer_Full	7.28	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2510	Outer_Full	7.30	/	/	<=13	Pass
	2535	Outer_Full	7.28	/	/	<=13	Pass
	2560	Outer_Full	7.25	/	/	<=13	Pass
CP-OFDM QPSK	2510	Outer_Full	8.35	/	/	<=13	Pass
	2535	Outer_Full	8.36	/	/	<=13	Pass
	2560	Outer_Full	8.37	/	/	<=13	Pass
CP-OFDM 16 QAM	2510	Outer_Full	8.36	/	/	<=13	Pass
	2535	Outer_Full	8.40	/	/	<=13	Pass
	2560	Outer_Full	8.35	/	/	<=13	Pass
CP-OFDM 64 QAM	2510	Outer_Full	8.44	/	/	<=13	Pass
	2535	Outer_Full	8.55	/	/	<=13	Pass
	2560	Outer_Full	8.51	/	/	<=13	Pass
CP-OFDM 256 QAM	2510	Outer_Full	8.77	/	/	<=13	Pass
	2535	Outer_Full	8.58	/	/	<=13	Pass
	2560	Outer_Full	8.67	/	/	<=13	Pass

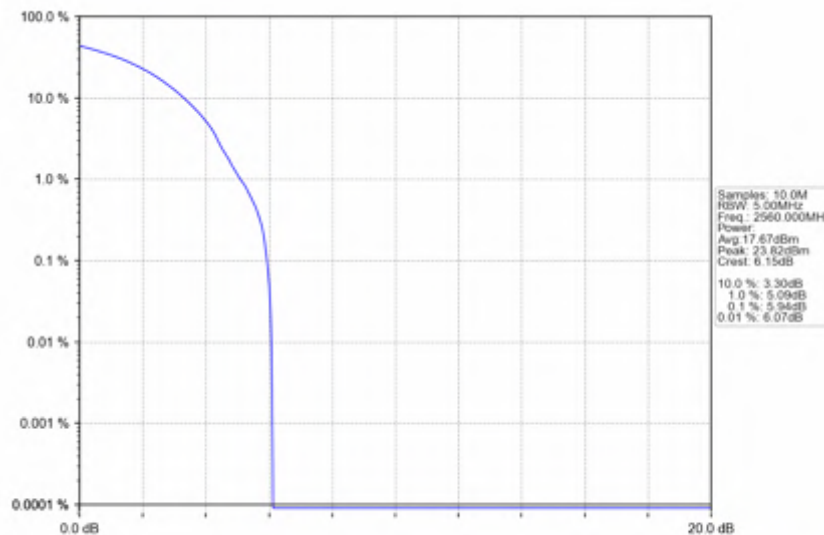
3.4.2 Test Graph



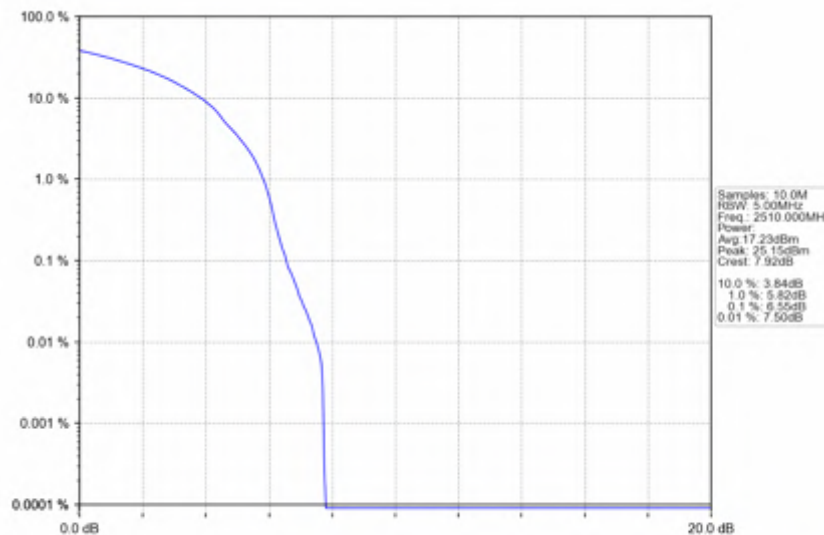
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011 or email: CN-Online@sgs.com.
 No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300
 086-51257350888 086-51257370011 www.sgs.com.cn
 086-51257350883 086-51257370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2560MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2510MHz_Outer_Full

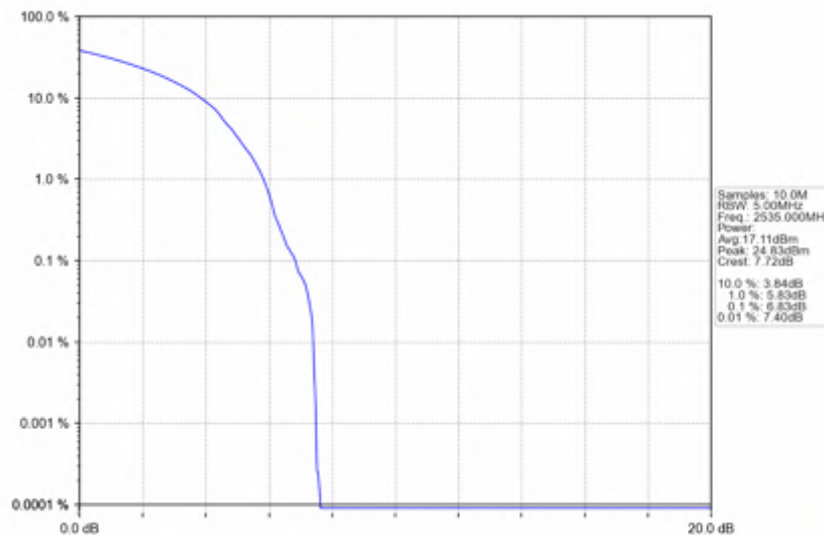


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

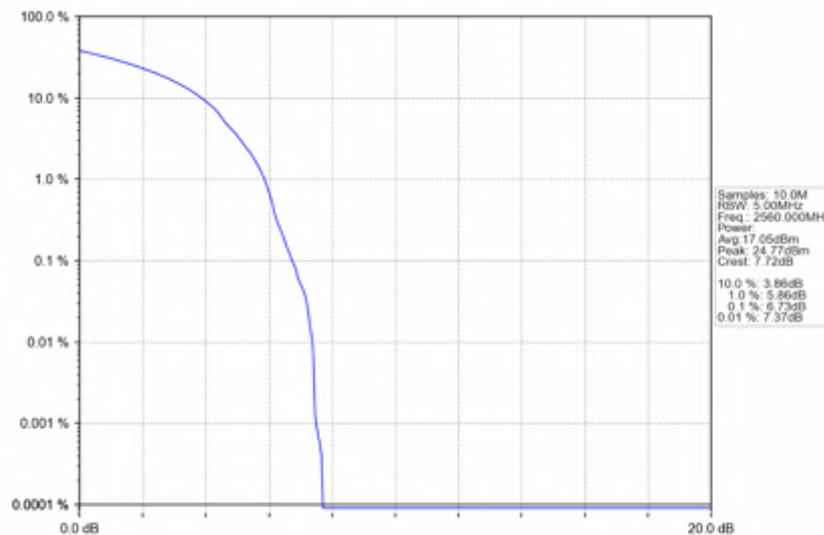
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370010 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2560MHz_Outer_Full



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-a-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 certification reports & certificates, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

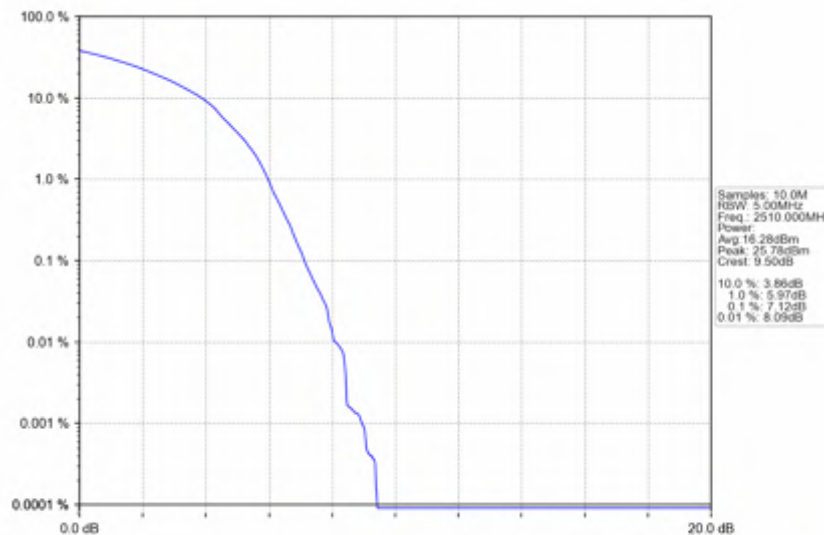
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

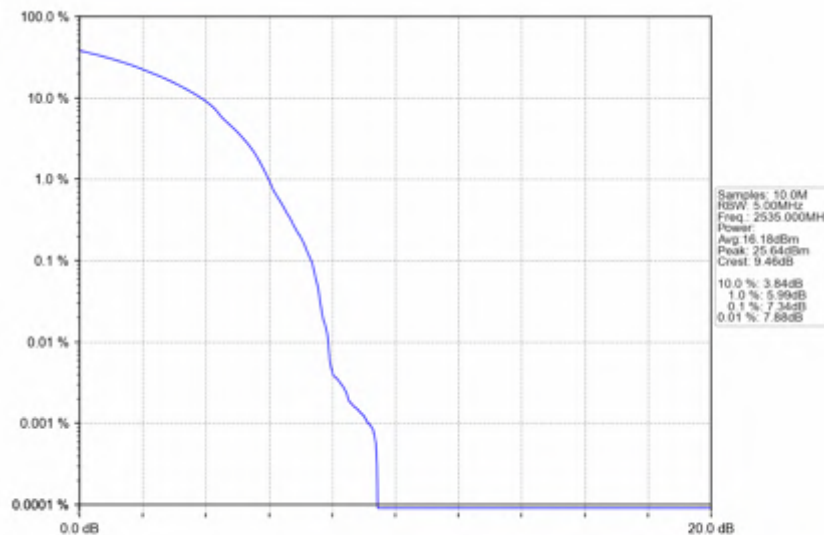
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2510MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full

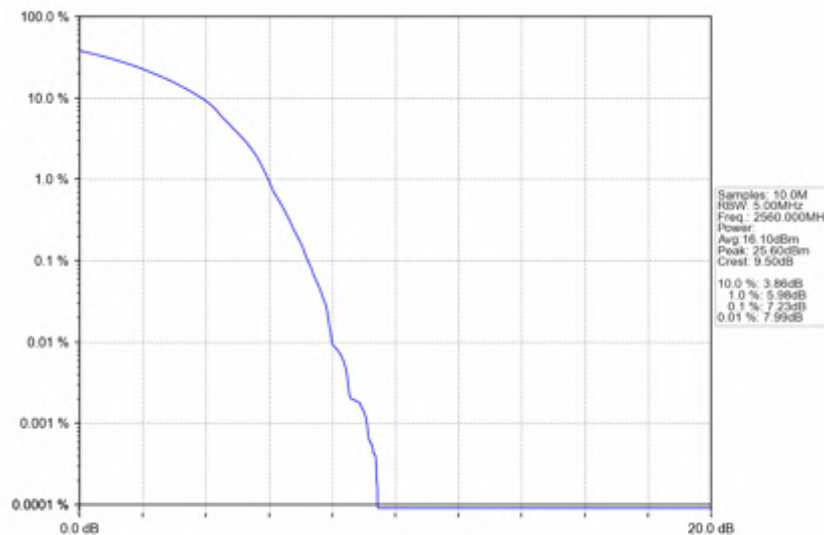


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57350088
 or email: CN-Online@sgs.com.

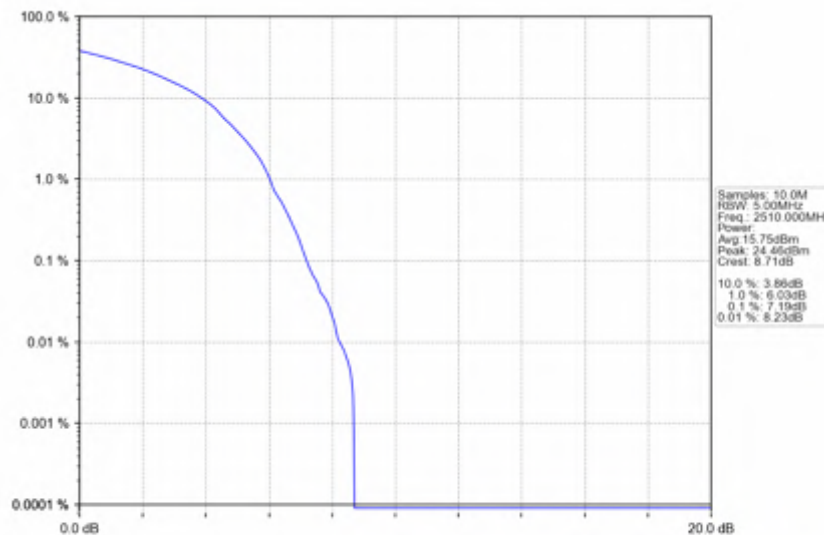
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350088 (86-512)57370011 www.sgs.com.cn
 (86-512)57350088 (86-512)57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16 QAM_2560MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64 QAM_2510MHz_Outer_Full

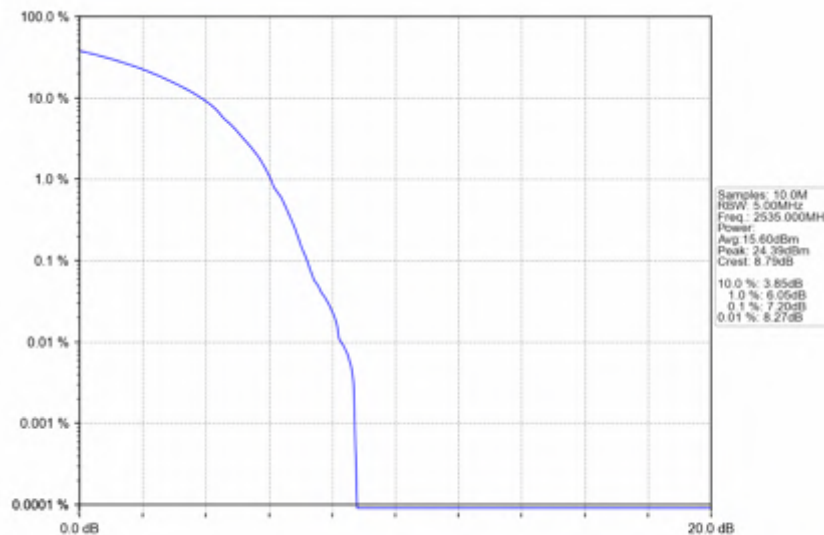


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

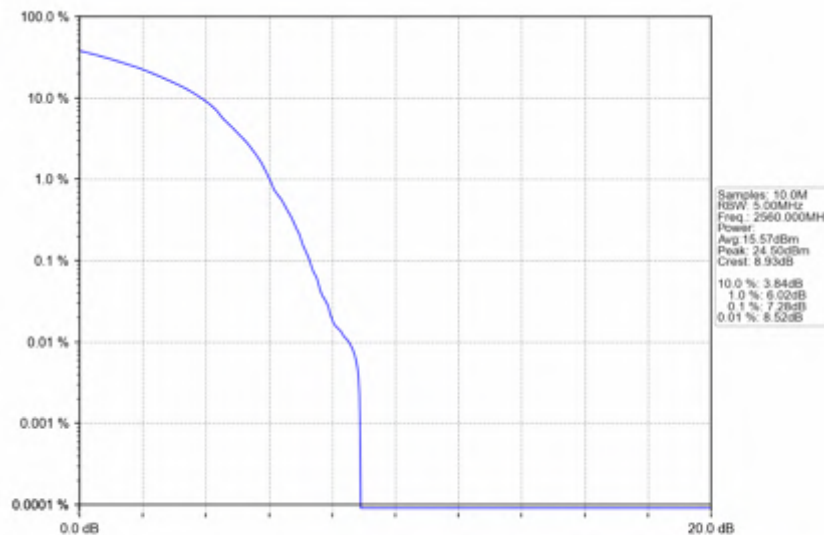
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2560MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Online@sgs.com.

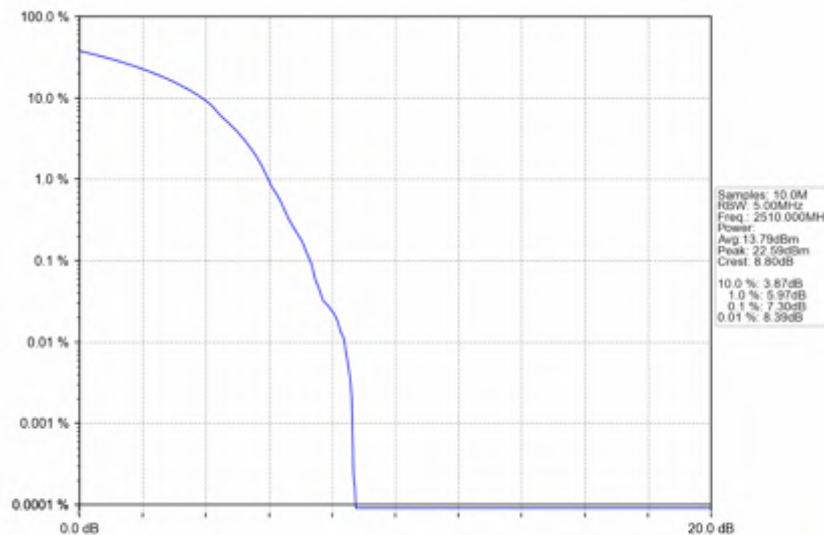
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

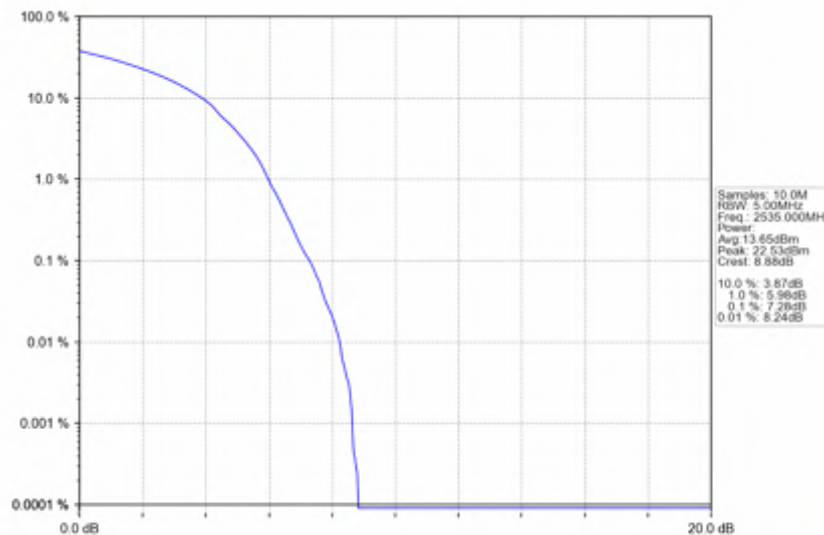
0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2510MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full

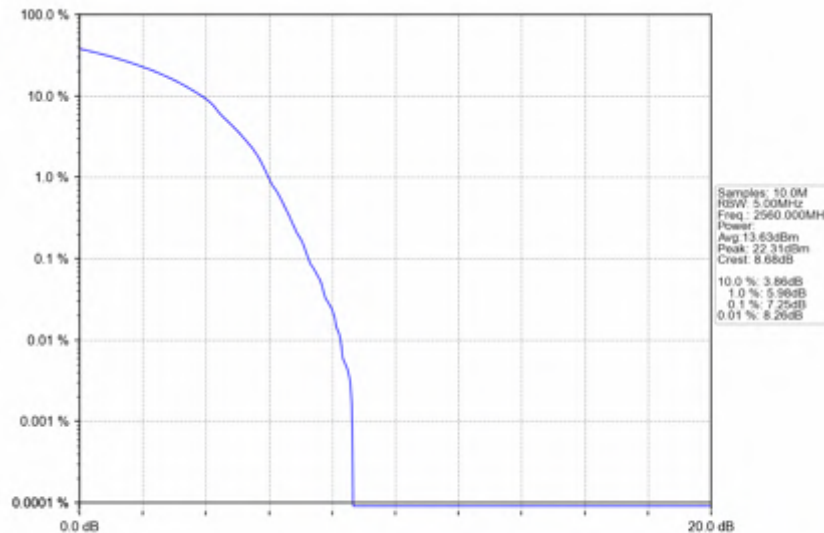


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011
 or email: CN-Check@sgs.com.

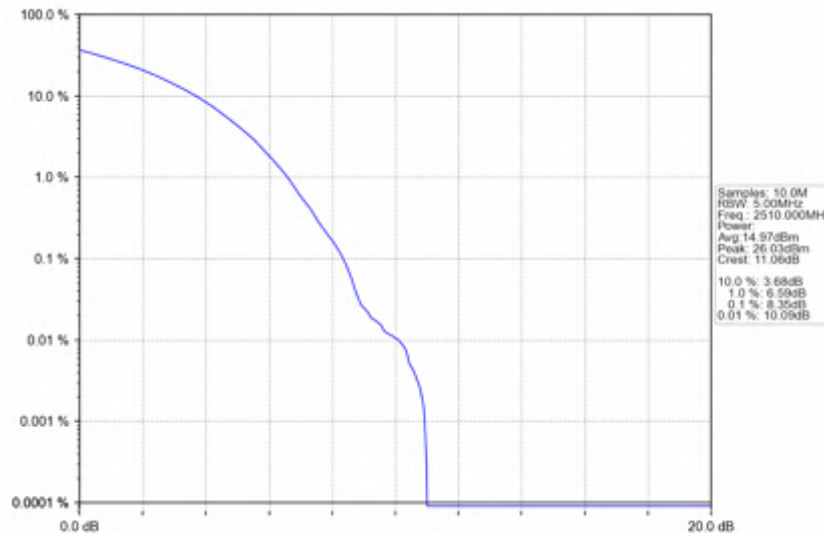
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
 (86-512)57350883 (86-512)57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2560MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2510MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

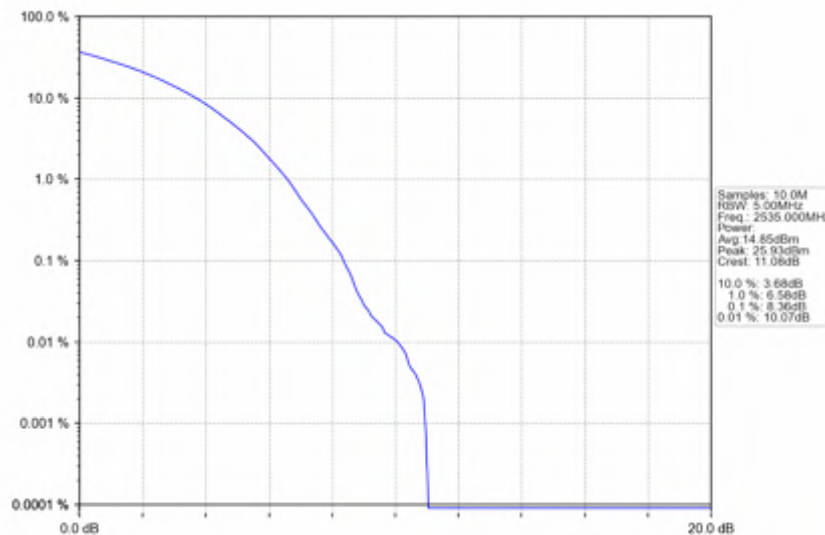
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

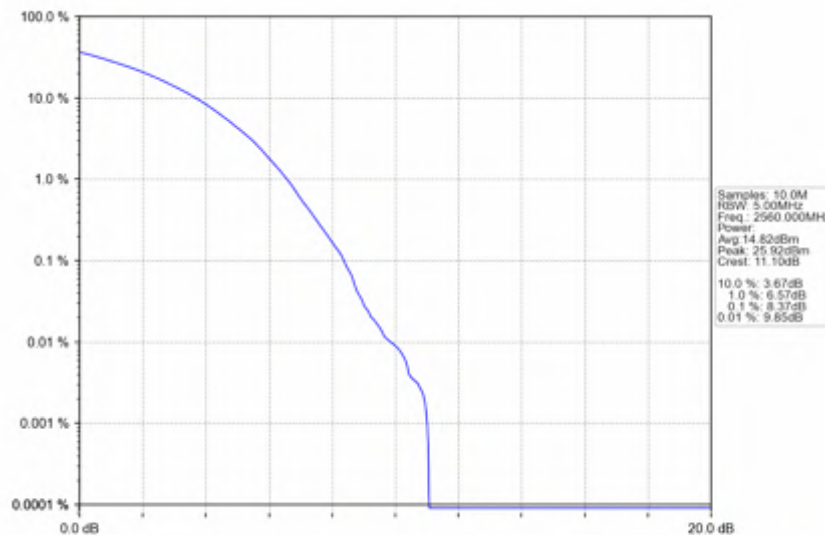
0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2560MHz_Outer_Full

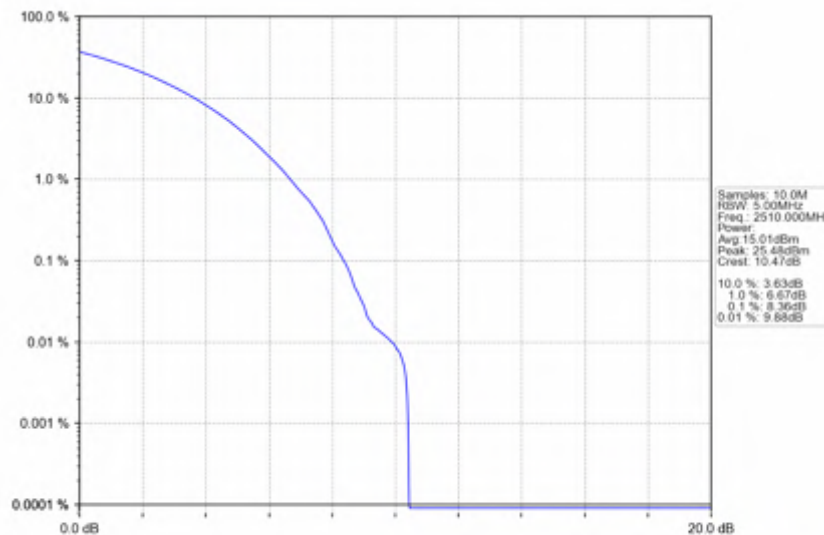


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification reports & certificates, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

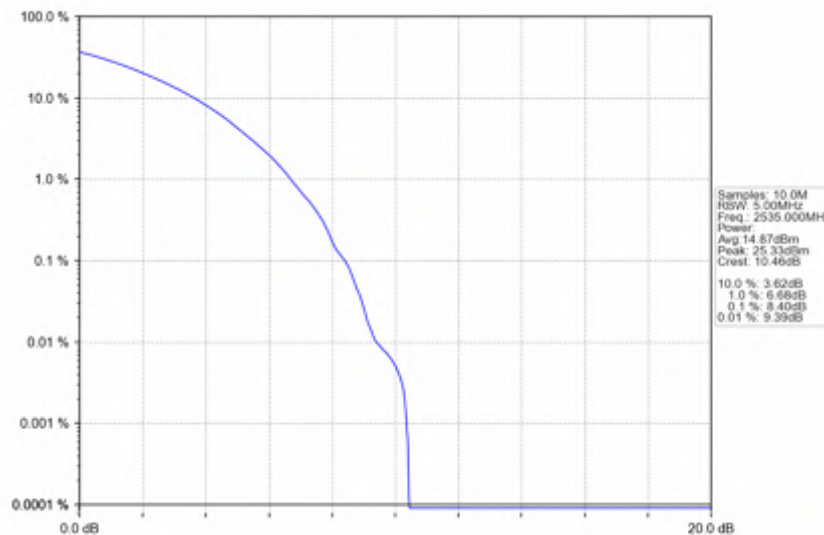
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2510MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full

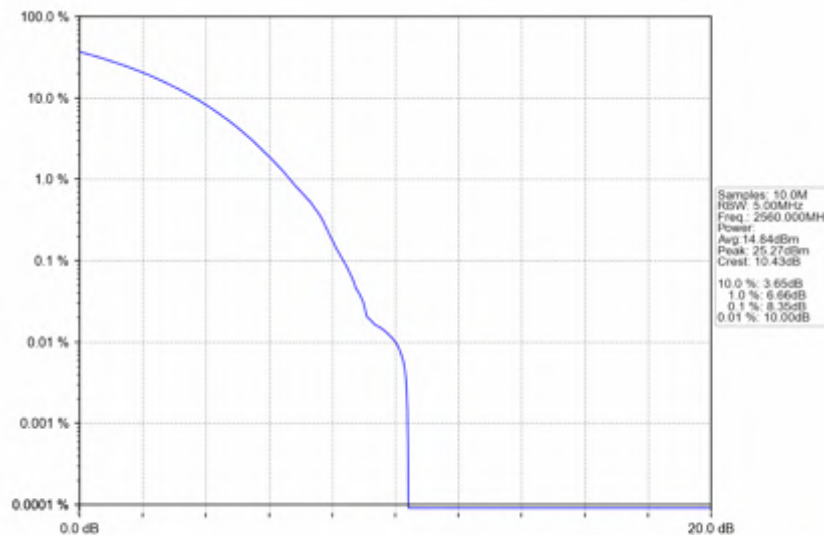


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

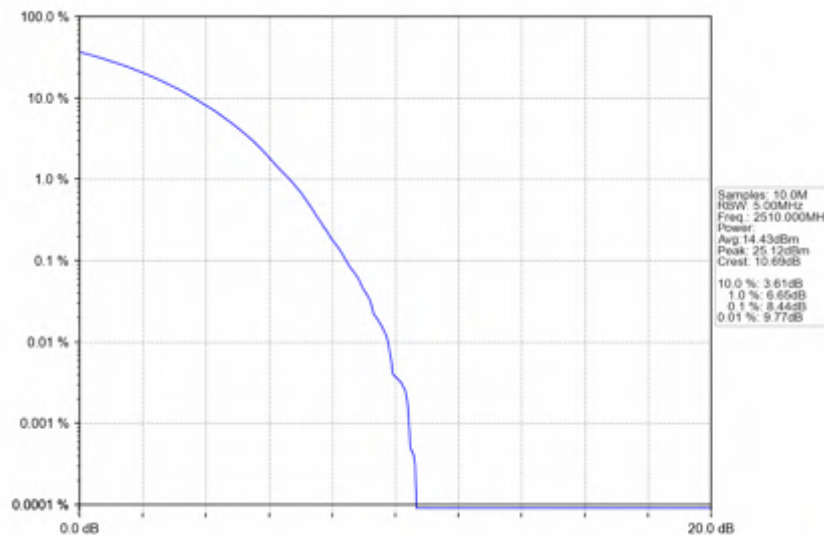
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2560MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2510MHz_Outer_Full

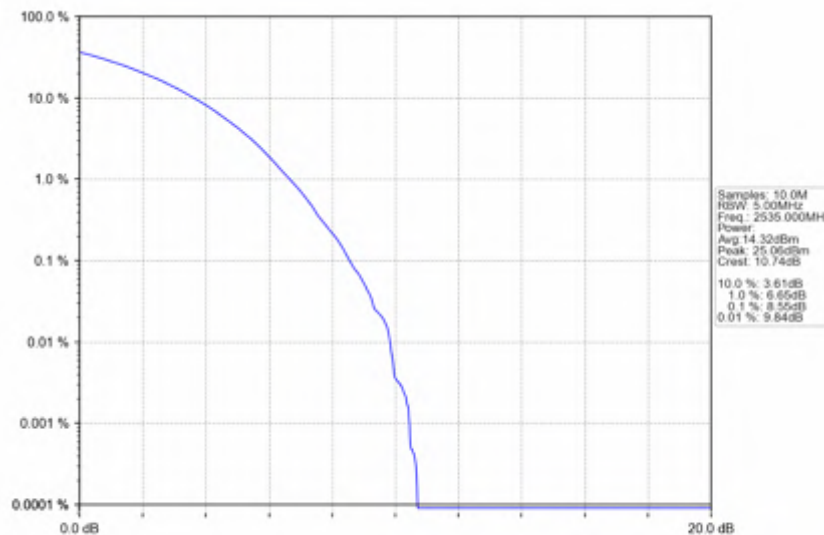


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

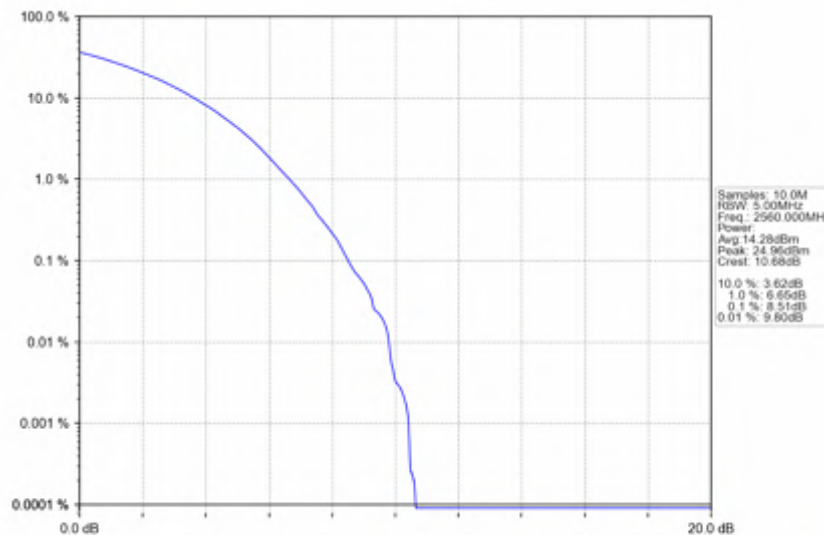
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370010 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2560MHz_Outer_Full

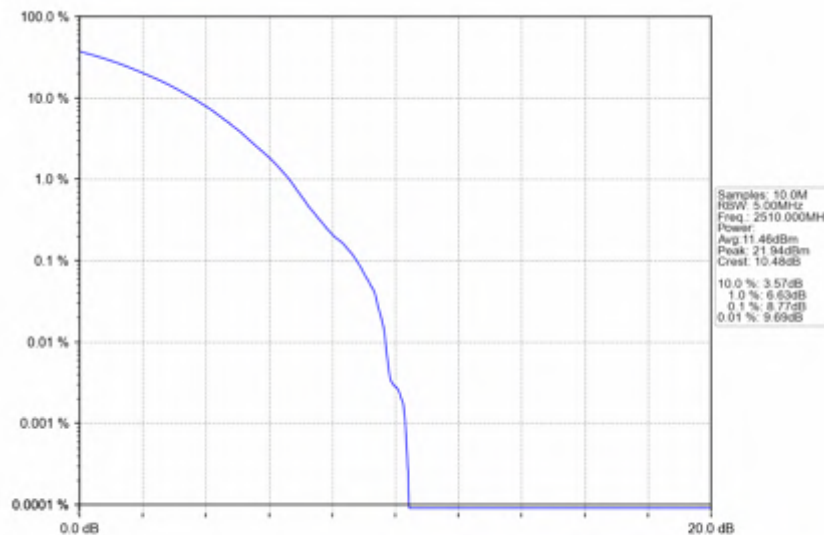


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

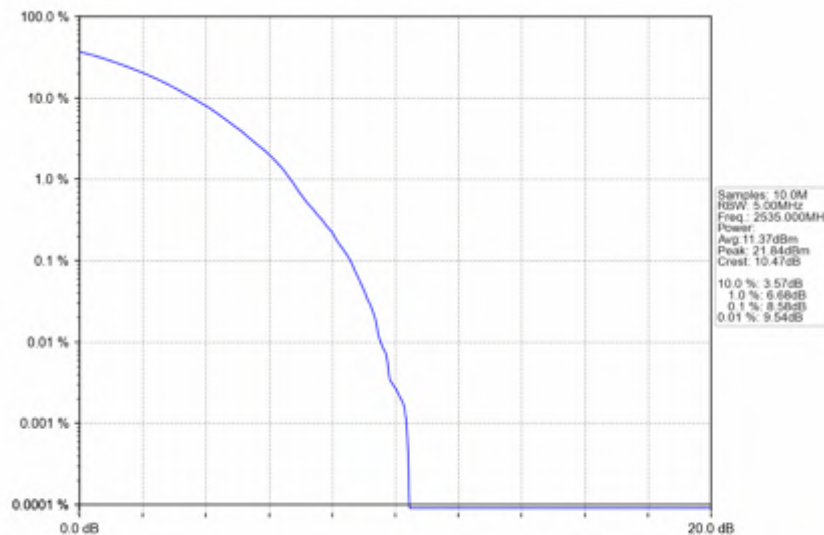
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_2510MHz_Outer_Full



n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full



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-a-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 conclusion report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Check@sgs.com.

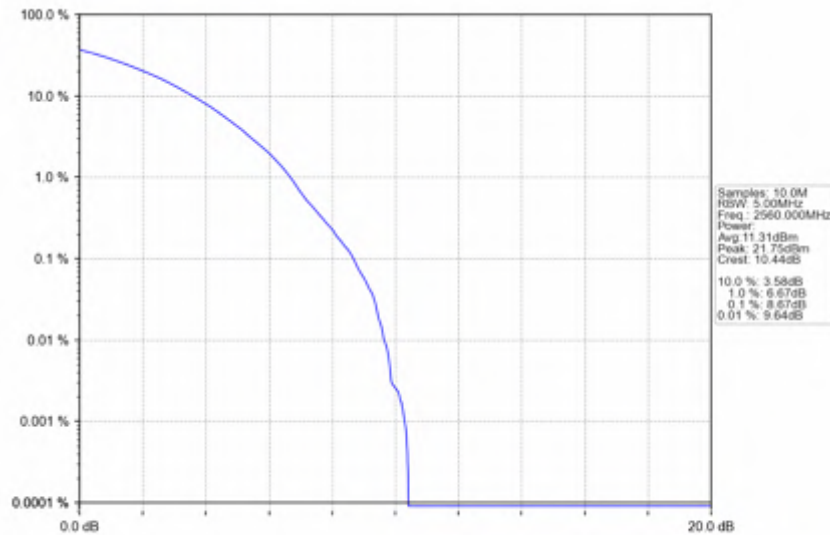
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路18号 邮编 215300

0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_2560MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at telephone: (86-512) 57370011 or email: CH.Official@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

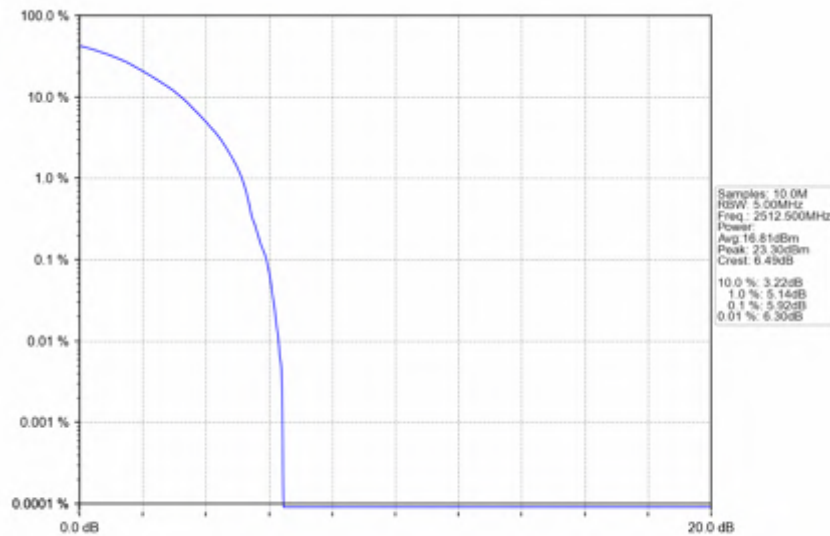
3.5 15k_SISO_25MHz_NTNV

3.5.1 Test Result

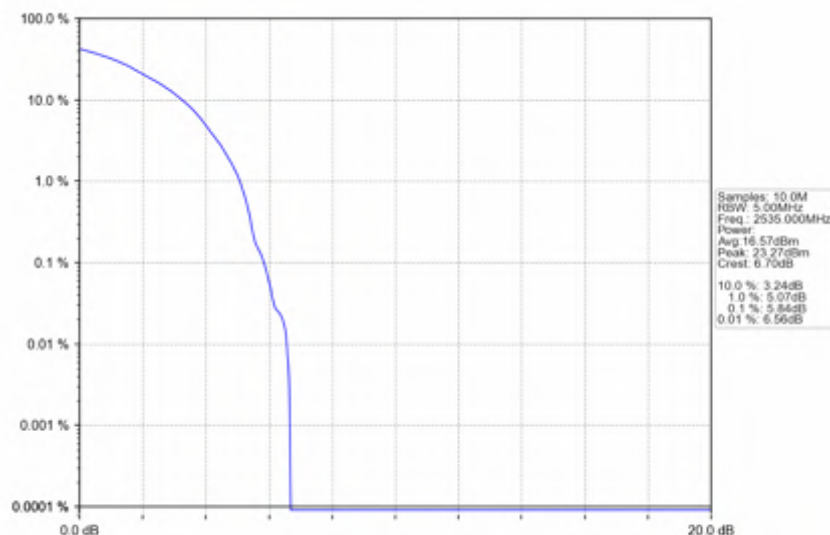
5G NR n7 SCS=15kHz SISO 25MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2512.5	Outer_Full	5.92	/	/	<=13	Pass
	2535	Outer_Full	5.84	/	/	<=13	Pass
	2557.5	Outer_Full	5.92	/	/	<=13	Pass
DFT-s-OFDM QPSK	2512.5	Outer_Full	7.08	/	/	<=13	Pass
	2535	Outer_Full	6.98	/	/	<=13	Pass
	2557.5	Outer_Full	6.96	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2512.5	Outer_Full	7.42	/	/	<=13	Pass
	2535	Outer_Full	7.38	/	/	<=13	Pass
	2557.5	Outer_Full	7.56	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2512.5	Outer_Full	7.67	/	/	<=13	Pass
	2535	Outer_Full	7.62	/	/	<=13	Pass
	2557.5	Outer_Full	7.64	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2512.5	Outer_Full	7.66	/	/	<=13	Pass
	2535	Outer_Full	7.67	/	/	<=13	Pass
	2557.5	Outer_Full	7.71	/	/	<=13	Pass
CP-OFDM QPSK	2512.5	Outer_Full	8.25	/	/	<=13	Pass
	2535	Outer_Full	8.30	/	/	<=13	Pass
	2557.5	Outer_Full	8.36	/	/	<=13	Pass
CP-OFDM 16 QAM	2512.5	Outer_Full	8.36	/	/	<=13	Pass
	2535	Outer_Full	8.38	/	/	<=13	Pass
	2557.5	Outer_Full	8.35	/	/	<=13	Pass
CP-OFDM 64 QAM	2512.5	Outer_Full	8.50	/	/	<=13	Pass
	2535	Outer_Full	8.44	/	/	<=13	Pass
	2557.5	Outer_Full	8.44	/	/	<=13	Pass
CP-OFDM 256 QAM	2512.5	Outer_Full	8.62	/	/	<=13	Pass
	2535	Outer_Full	8.64	/	/	<=13	Pass
	2557.5	Outer_Full	8.62	/	/	<=13	Pass

3.5.2 Test Graph

n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2512.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2535MHz_Outer_Full



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-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011 or email: CN-Online@sgs.com.

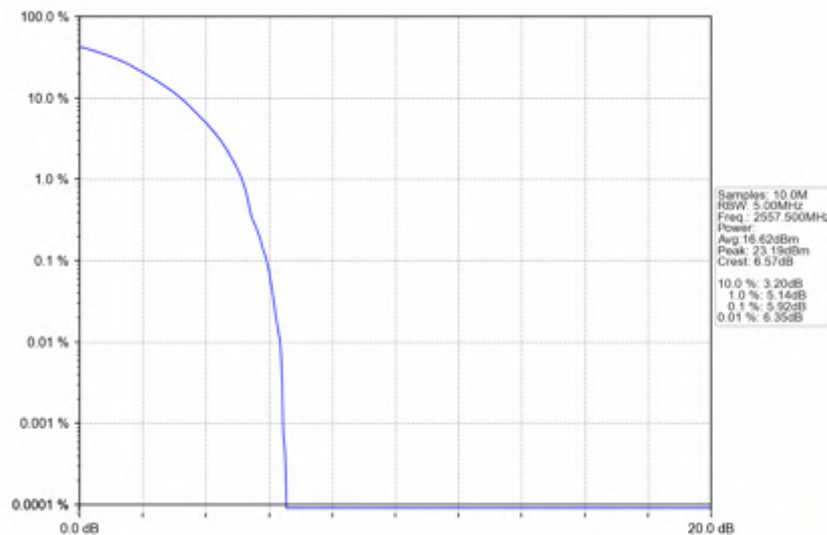
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

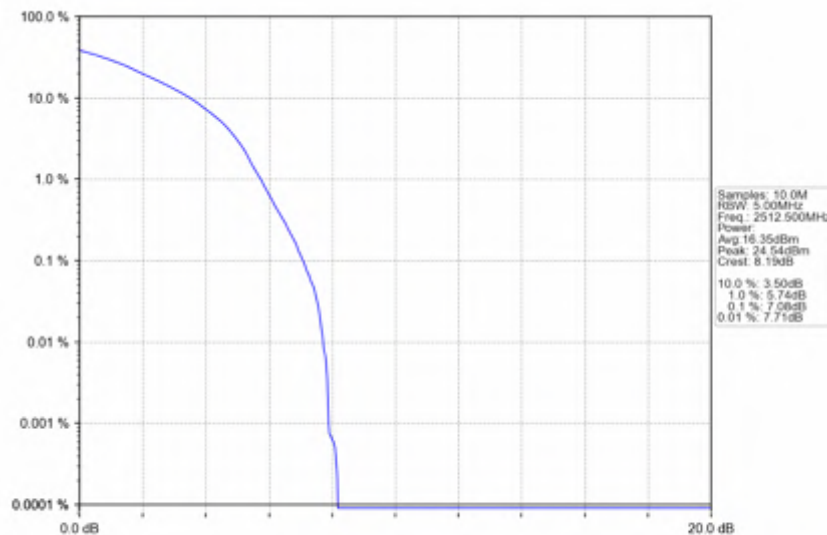
86-512/57350888 86-512/57370011 www.sgs.com.cn

86-512/57350888 86-512/57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2557.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2512.5MHz_Outer_Full



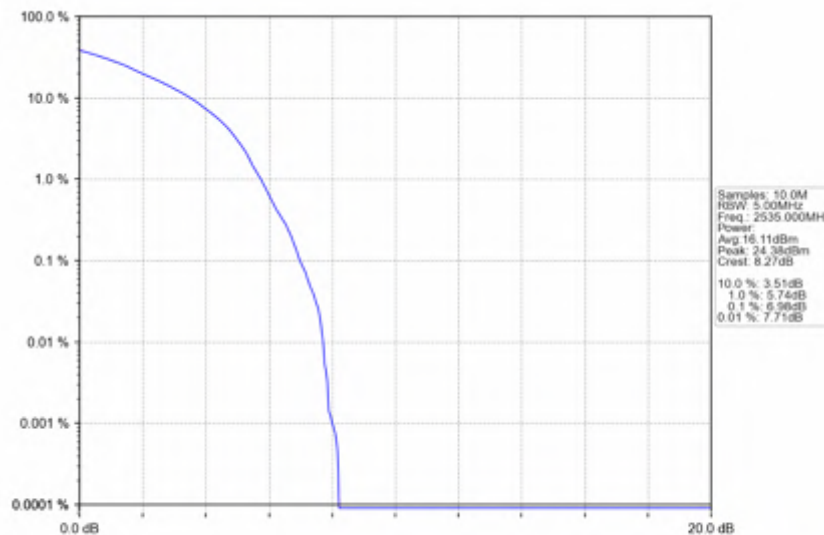
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Online@sgs.com.

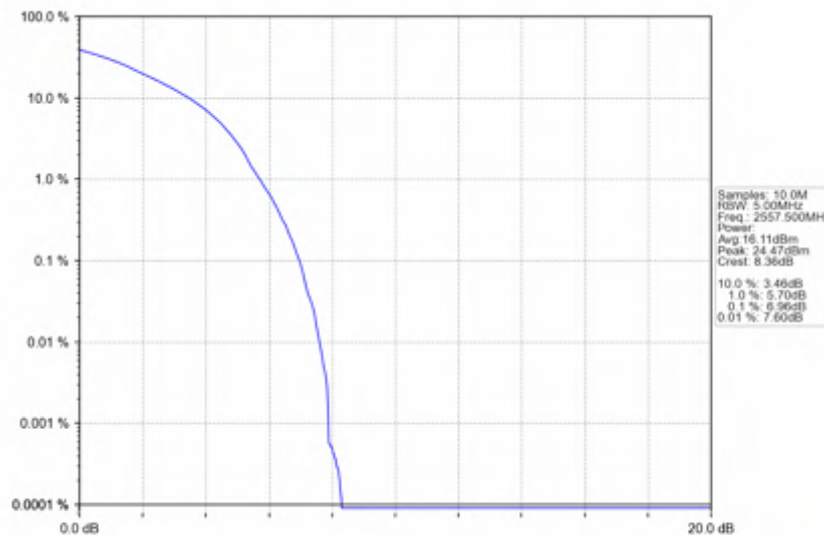
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
(86-512)57350883 (86-512)57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_QPSK_2557.5MHz_Outer_Full

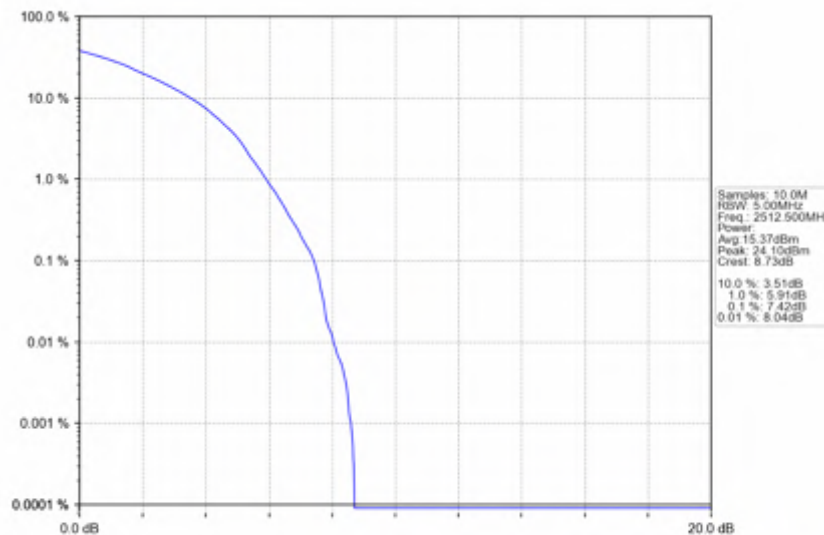


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

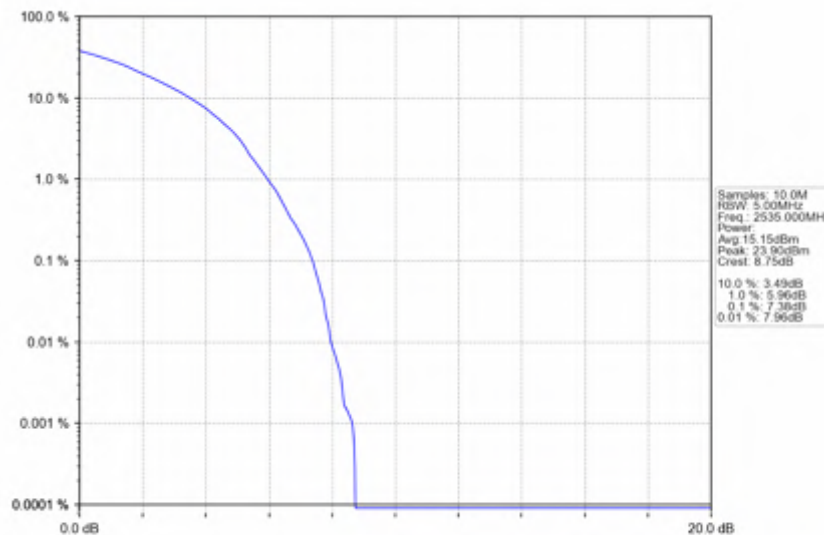
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_2512.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overall, 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-a-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 conclusion report & certificate, please connect us at sgs@sgs.com (86-512)57370011 or email: CN-Online@sgs.com.

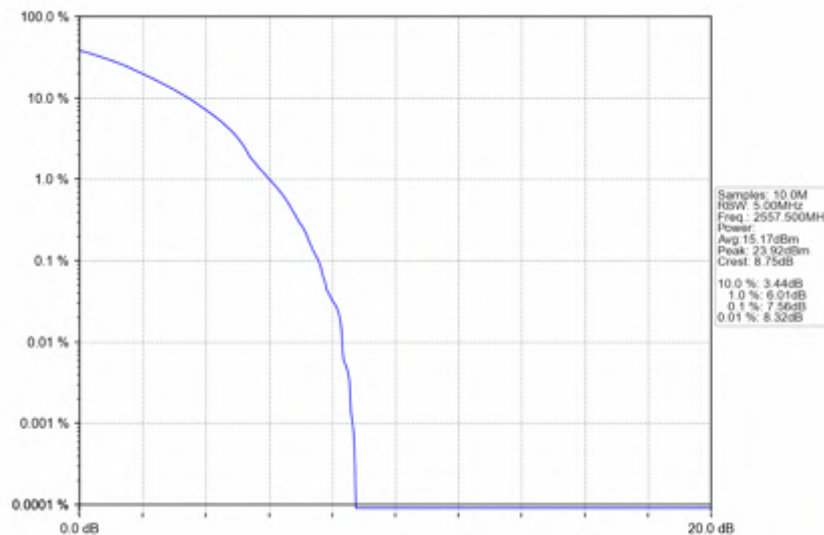
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

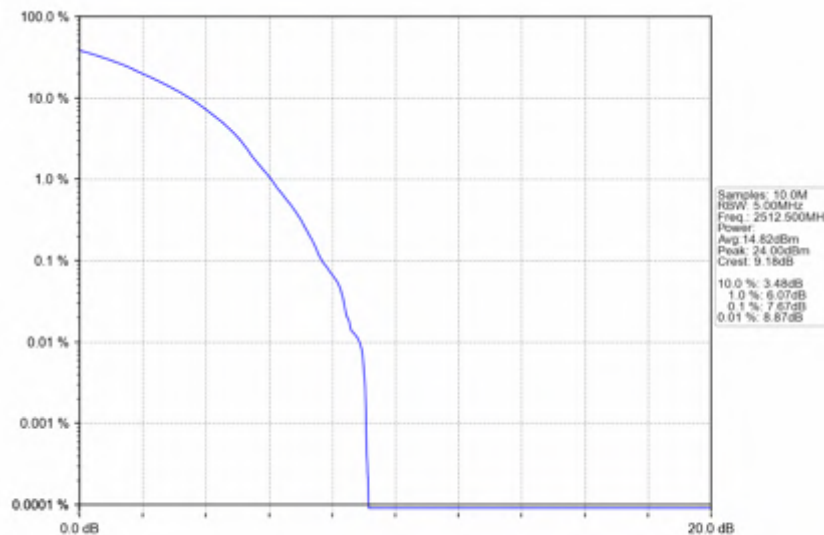
0086-51257370000 006-51257370011 www.sgs.com.cn

0086-51257350000 006-51257370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_2557.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_64_QAM_2512.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CH.Official@sgs.com.

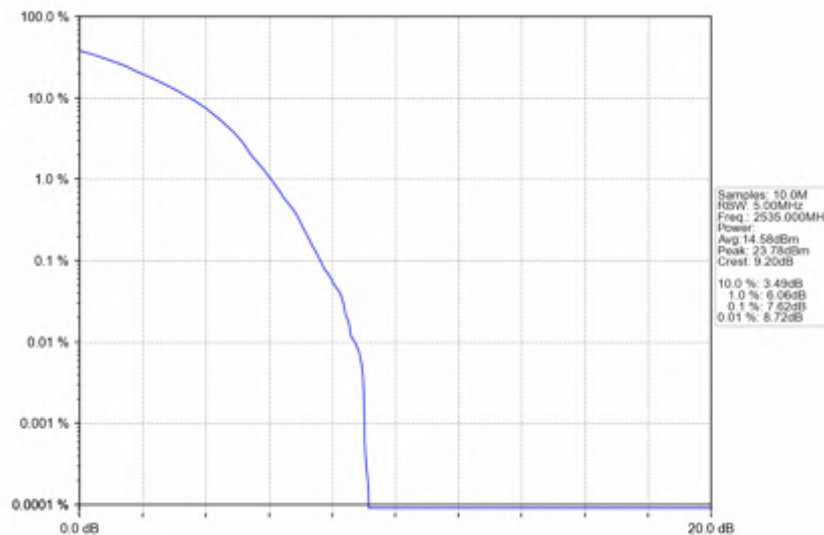
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

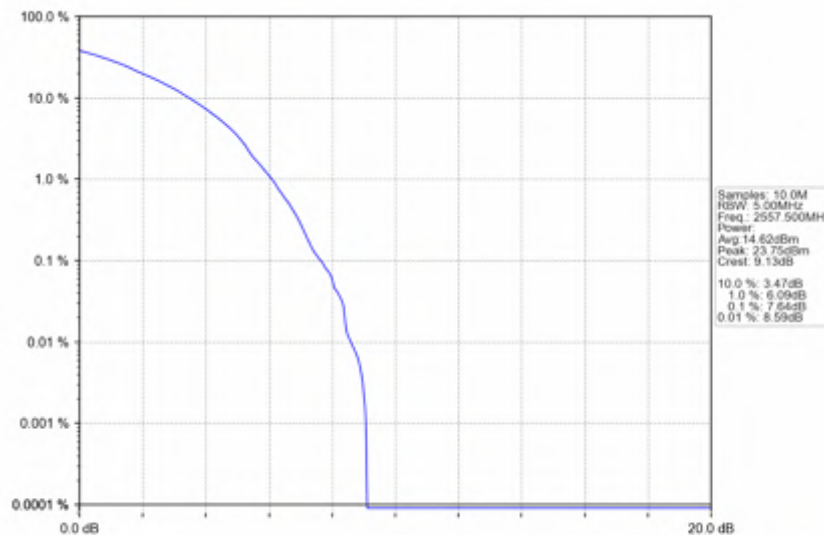
0086-51257370000 0086-51257370010 www.sgs.com.cn

0086-51257350000 0086-51257370010 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_2557.5MHz_Outer_Full



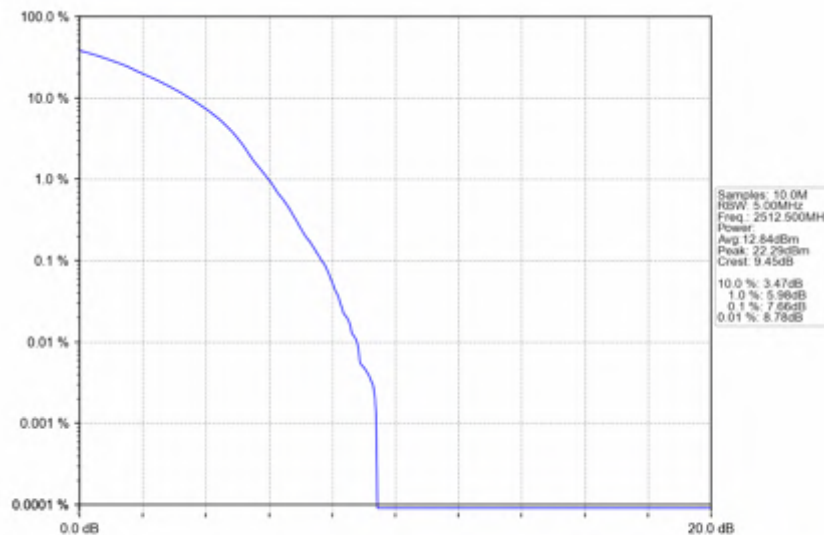
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

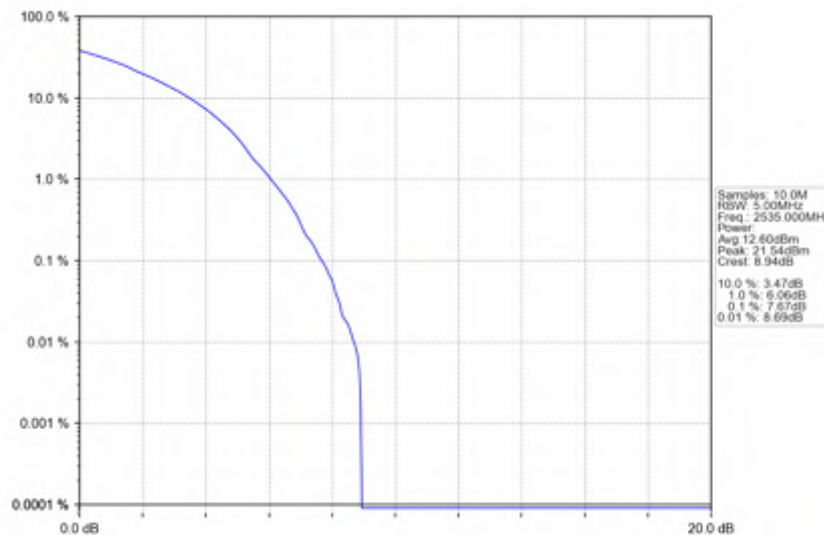
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

086-51257350888 086-51257370000 www.sgs.com.cn
086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_2512.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overall, 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-a-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 certification reports & certificates, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

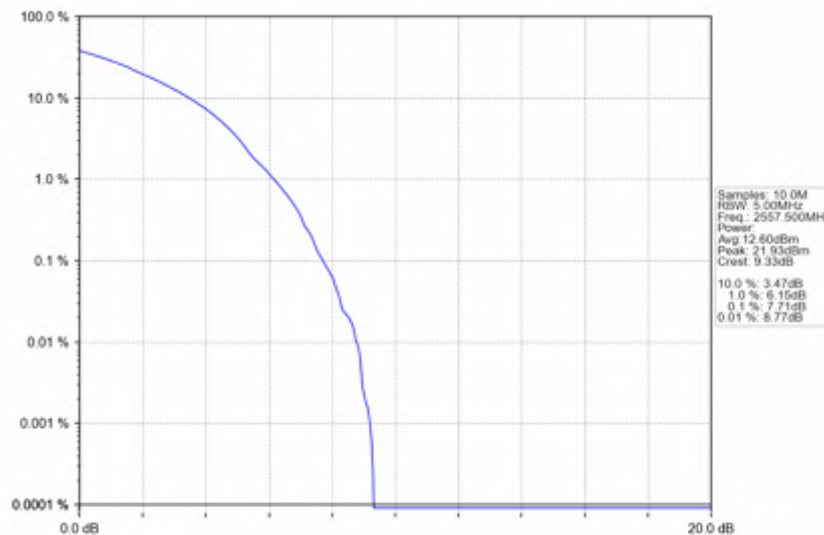
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

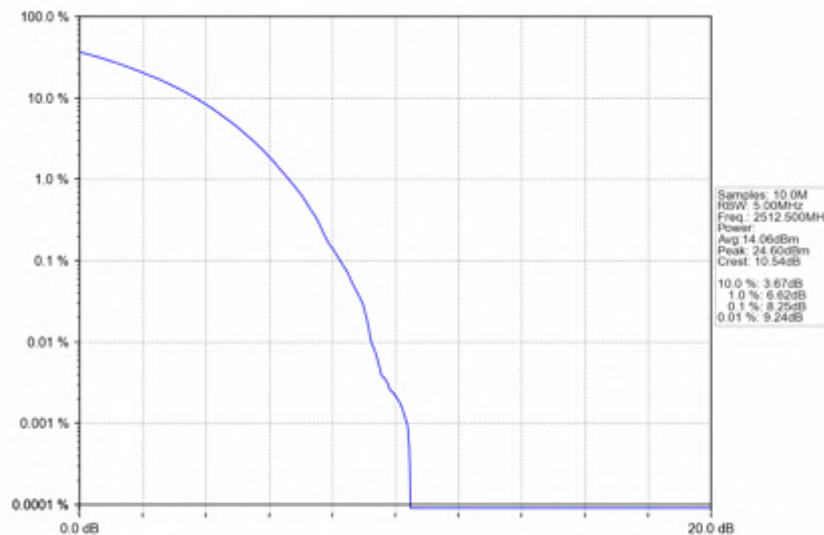
0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 256 QAM_2557.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2512.5MHz_Outer_Full



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overall, 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-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

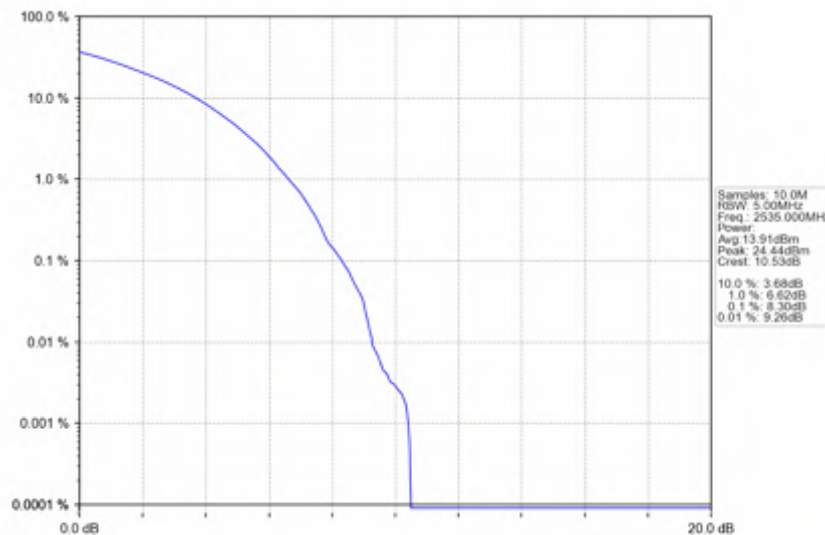
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

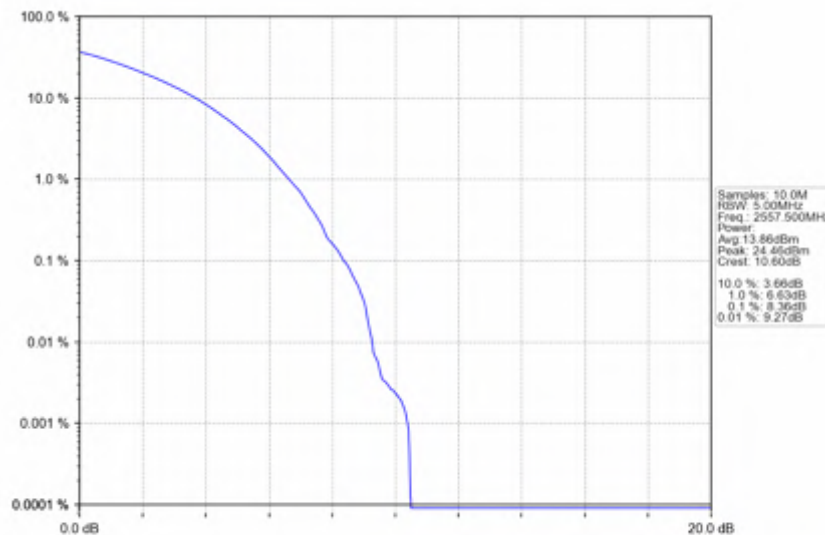
0086-51257350888 006-5125737000 www.sgs.com.cn

0086-51257350888 006-5125737000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_2557.5MHz_Outer_Full



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-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Check@sgs.com.

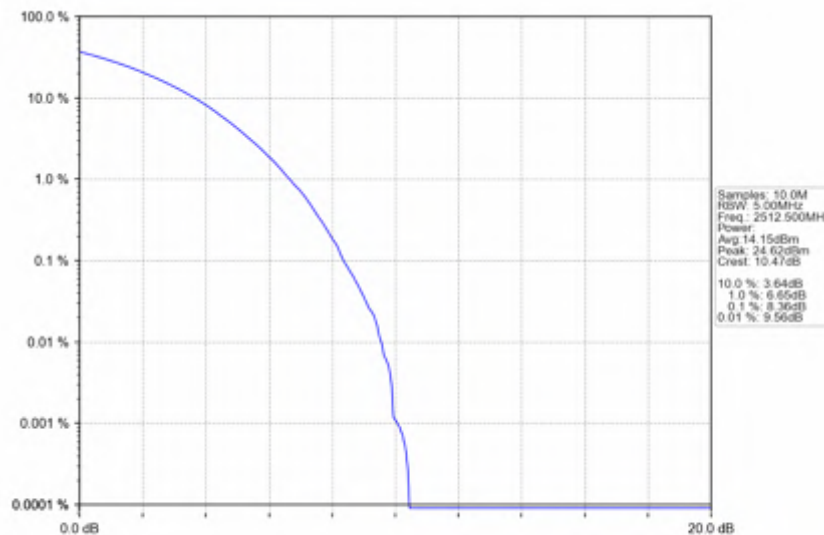
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

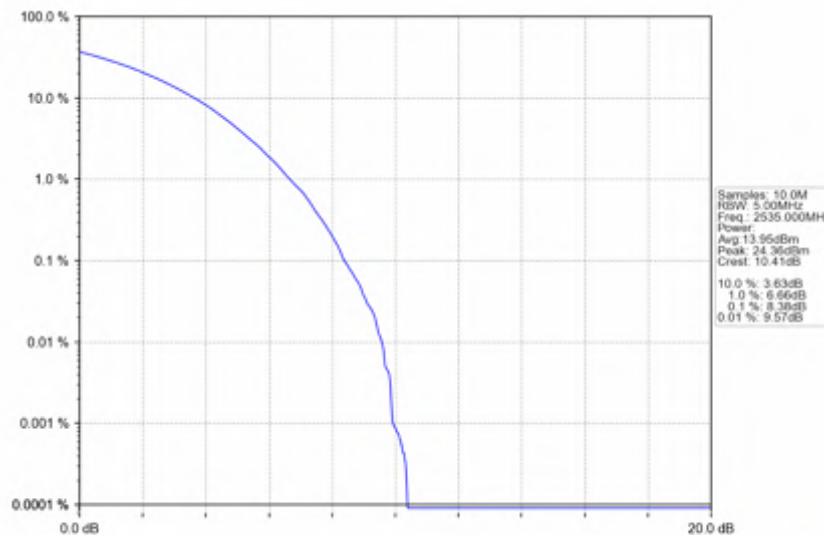
0086-51257370000 0086-51257370010 www.sgs.com.cn

0086-51257350000 0086-51257370010 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_2512.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full

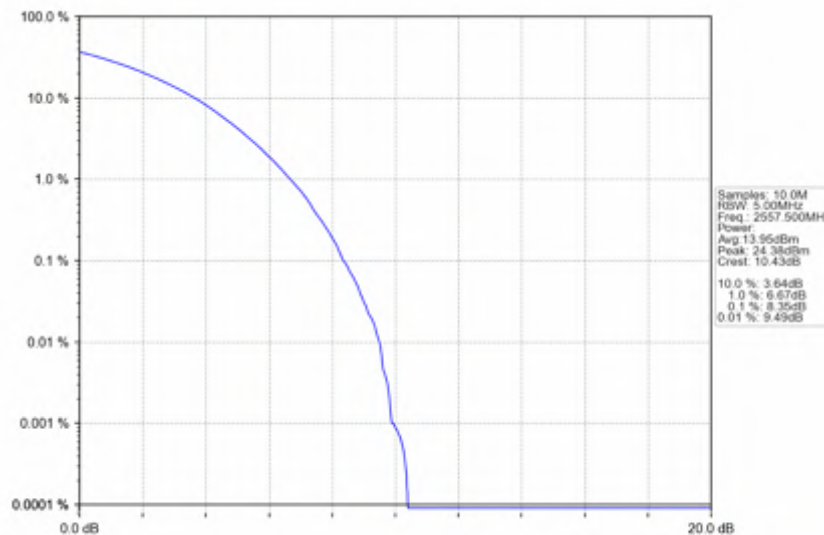


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report or certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

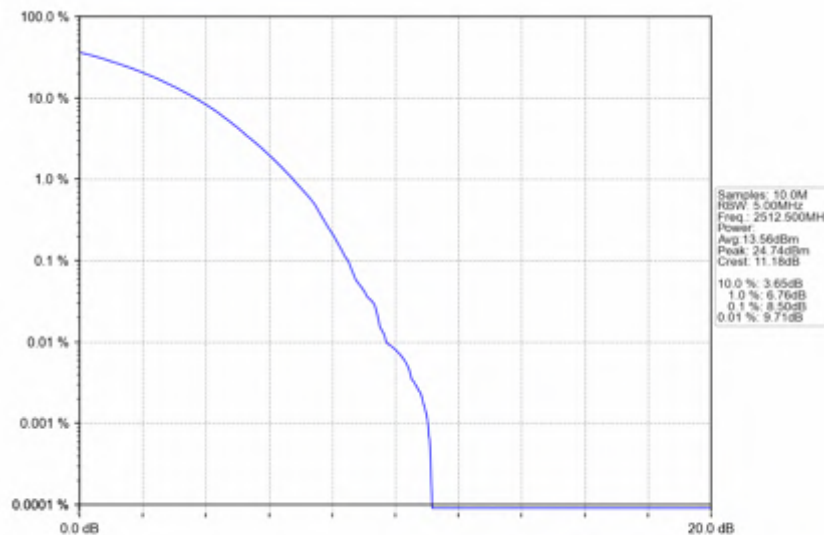
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370010 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_2557.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_CP-OFDM_64_QAM_2512.5MHz_Outer_Full

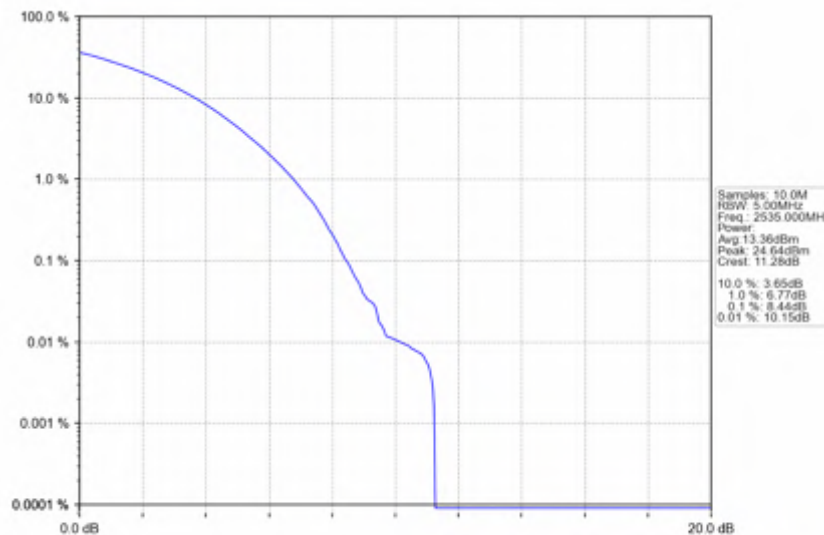


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

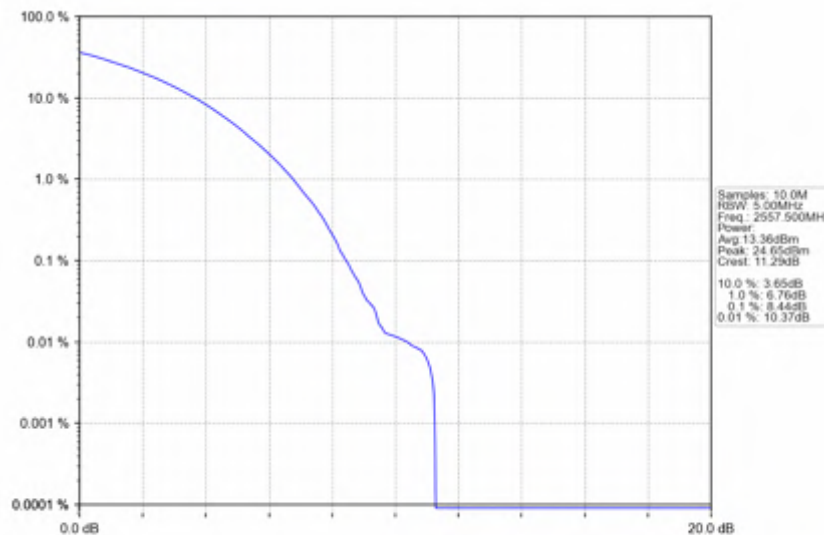
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2557.5MHz_Outer_Full

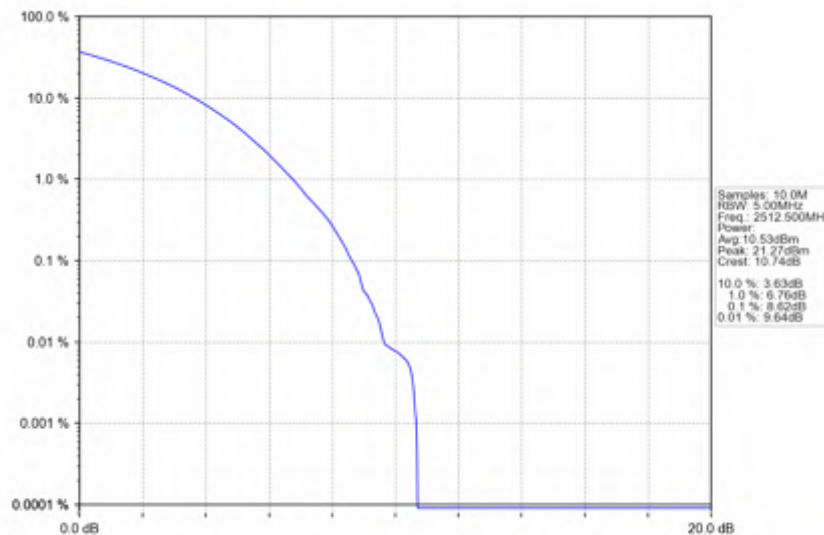


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report and certificates, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

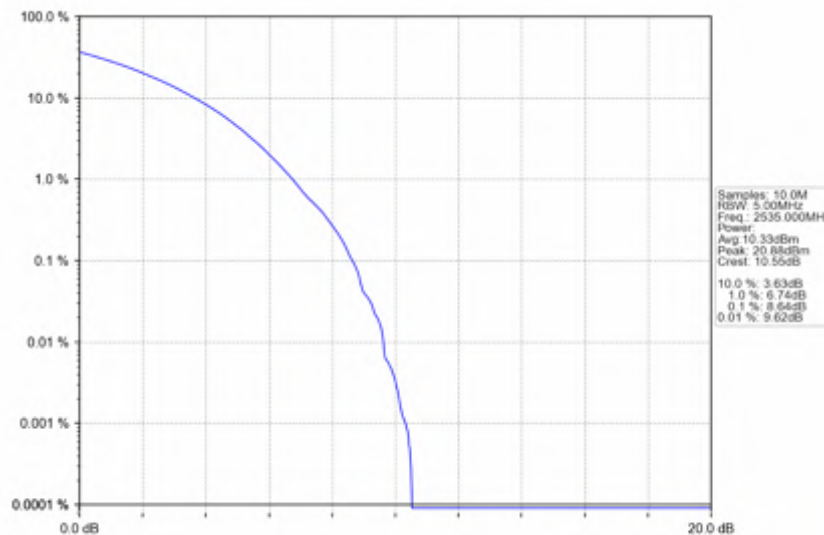
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_CP-OFDM_256_QAM_2512.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_25MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

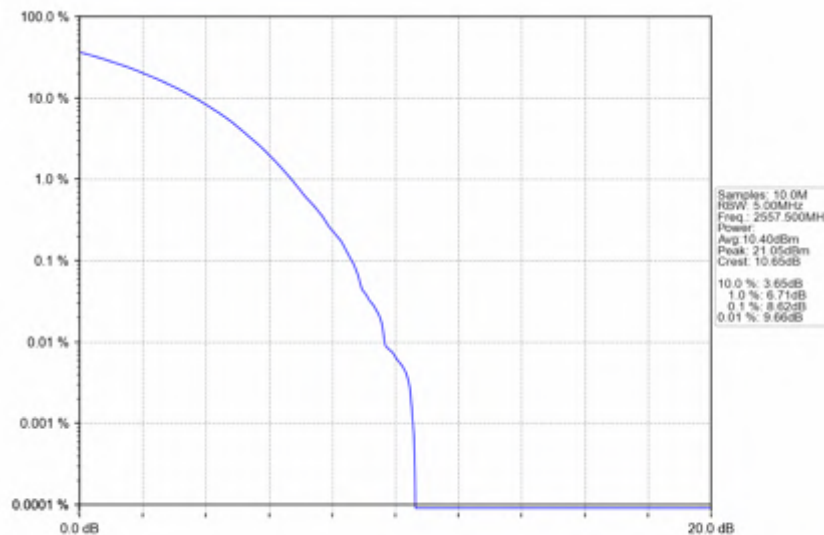
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0086-51257350888 006-5125737000 www.sgs.com.cn

0086-51257350888 006-5125737000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_25MHz_CP-OFDM_256_QAM_2557.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at telephone: (86-512) 57370011 or email: CN-Online@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0086-512/57350888 006-512/57370011 www.sgs.com.cn

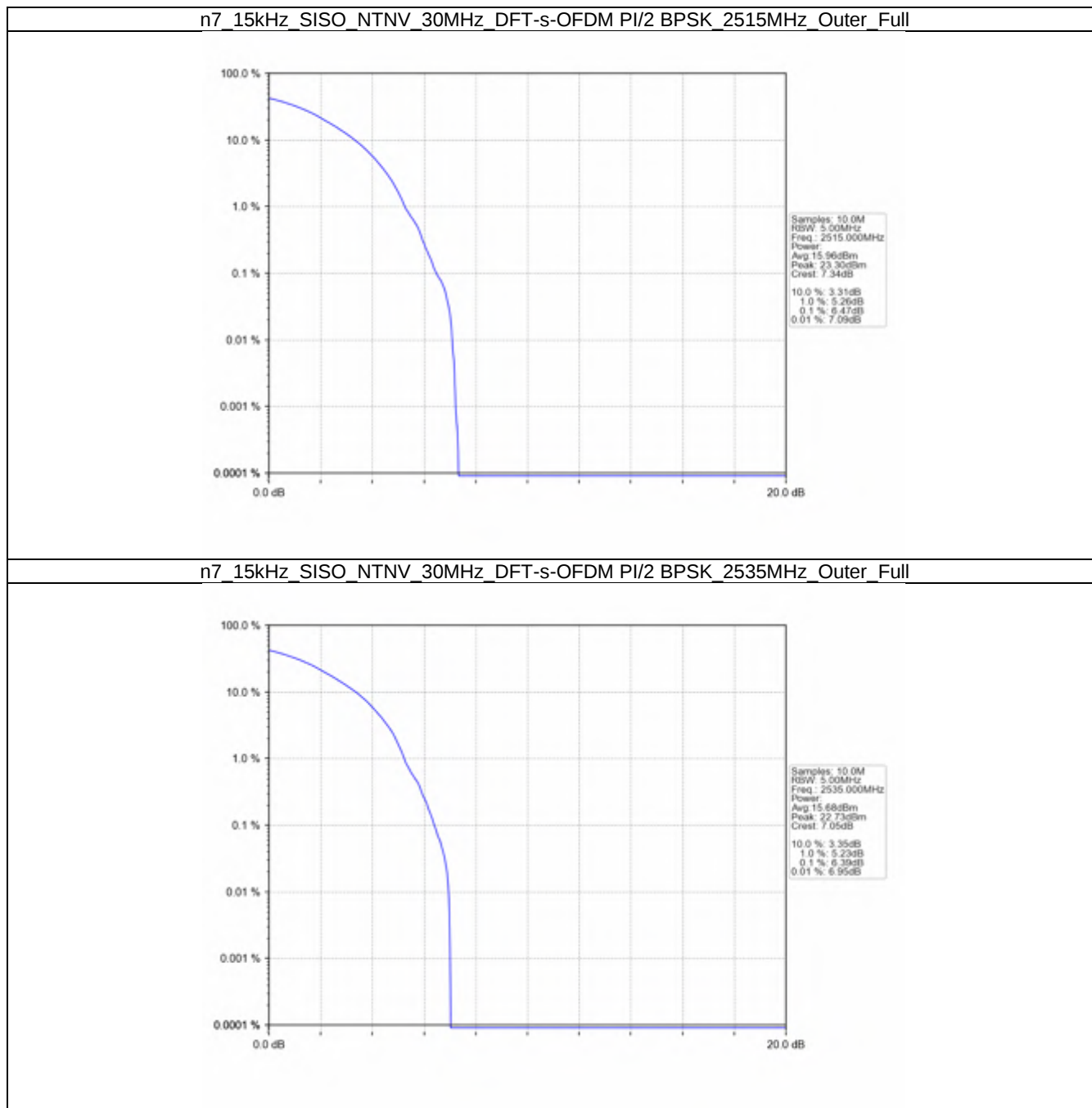
0086-512/57350888 006-512/57370011 sgs.china@sgs.com

3.6 15k_SISO_30MHz_NTNV

3.6.1 Test Result

5G NR n7 SCS=15kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2515	Outer_Full	6.47	/	/	<=13	Pass
	2535	Outer_Full	6.39	/	/	<=13	Pass
	2555	Outer_Full	6.43	/	/	<=13	Pass
DFT-s-OFDM QPSK	2515	Outer_Full	7.28	/	/	<=13	Pass
	2535	Outer_Full	7.38	/	/	<=13	Pass
	2555	Outer_Full	7.32	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2515	Outer_Full	7.83	/	/	<=13	Pass
	2535	Outer_Full	7.79	/	/	<=13	Pass
	2555	Outer_Full	7.81	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2515	Outer_Full	7.68	/	/	<=13	Pass
	2535	Outer_Full	7.70	/	/	<=13	Pass
	2555	Outer_Full	7.63	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2515	Outer_Full	7.86	/	/	<=13	Pass
	2535	Outer_Full	7.90	/	/	<=13	Pass
	2555	Outer_Full	7.89	/	/	<=13	Pass
CP-OFDM QPSK	2515	Outer_Full	8.47	/	/	<=13	Pass
	2535	Outer_Full	8.51	/	/	<=13	Pass
	2555	Outer_Full	8.40	/	/	<=13	Pass
CP-OFDM 16 QAM	2515	Outer_Full	8.57	/	/	<=13	Pass
	2535	Outer_Full	8.61	/	/	<=13	Pass
	2555	Outer_Full	8.45	/	/	<=13	Pass
CP-OFDM 64 QAM	2515	Outer_Full	8.47	/	/	<=13	Pass
	2535	Outer_Full	8.59	/	/	<=13	Pass
	2555	Outer_Full	8.41	/	/	<=13	Pass
CP-OFDM 256 QAM	2515	Outer_Full	8.62	/	/	<=13	Pass
	2535	Outer_Full	8.63	/	/	<=13	Pass
	2555	Outer_Full	8.87	/	/	<=13	Pass

3.6.2 Test Graph



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-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com or CN-Online@sgs.com.

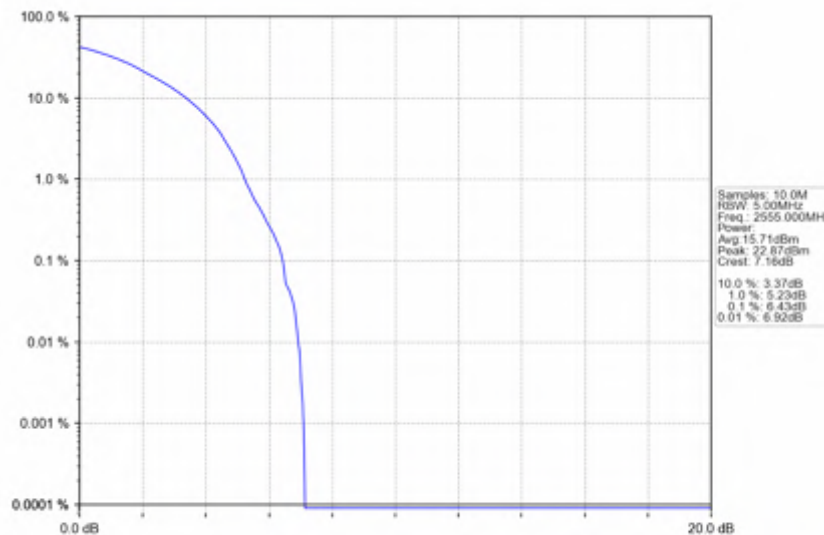
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

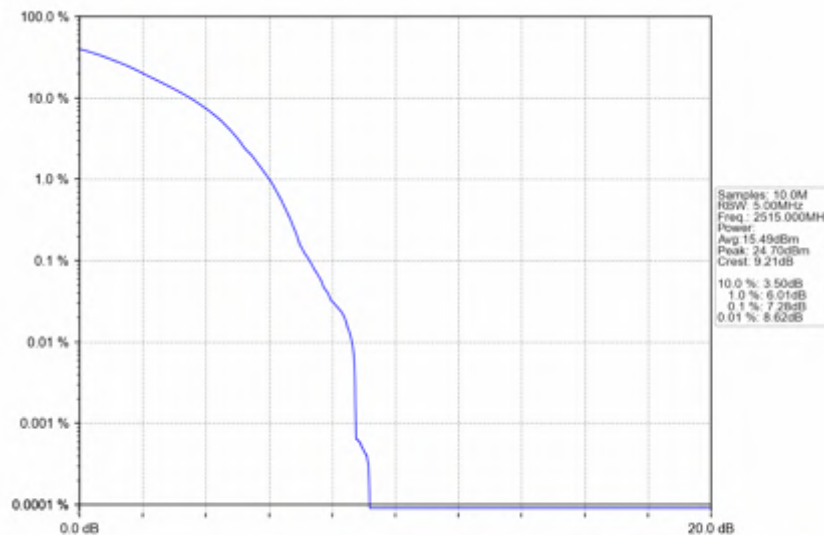
0512-57350888 0512-57370910 www.sgs.com.cn

0512-57350883 0512-57370911 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2555MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2515MHz_Outer_Full

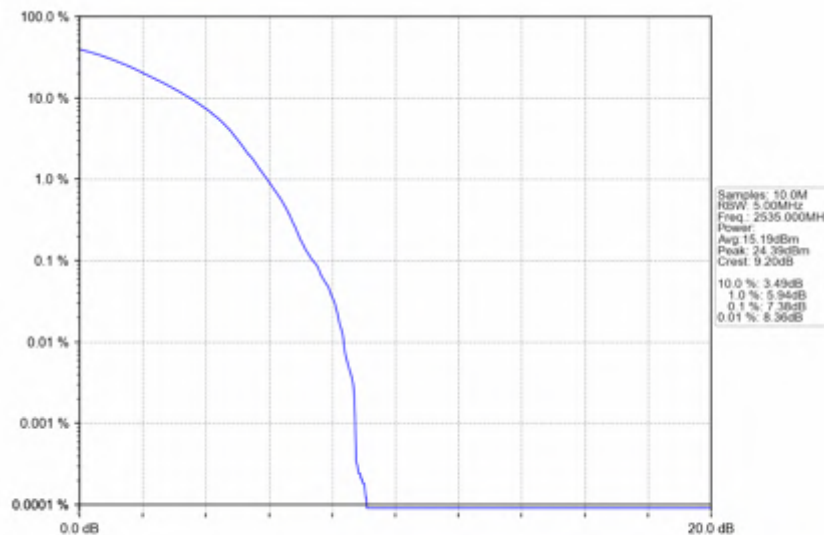


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011
 or email: CN-Check@sgs.com.

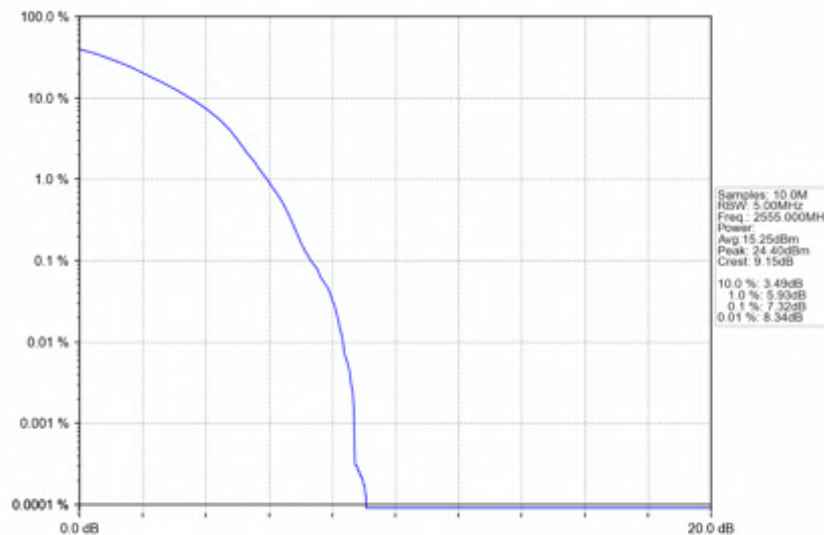
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
 (86-512)57350888 (86-512)57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_2555MHz_Outer_Full

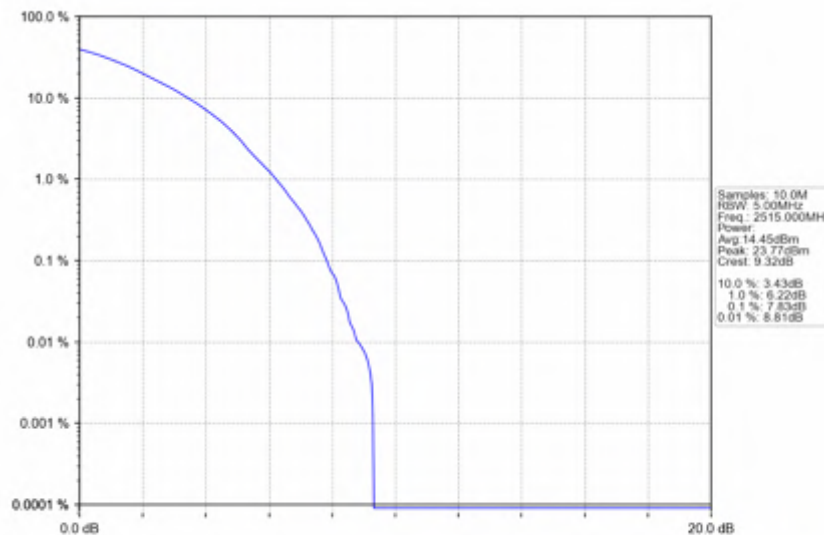


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Check@sgs.com.

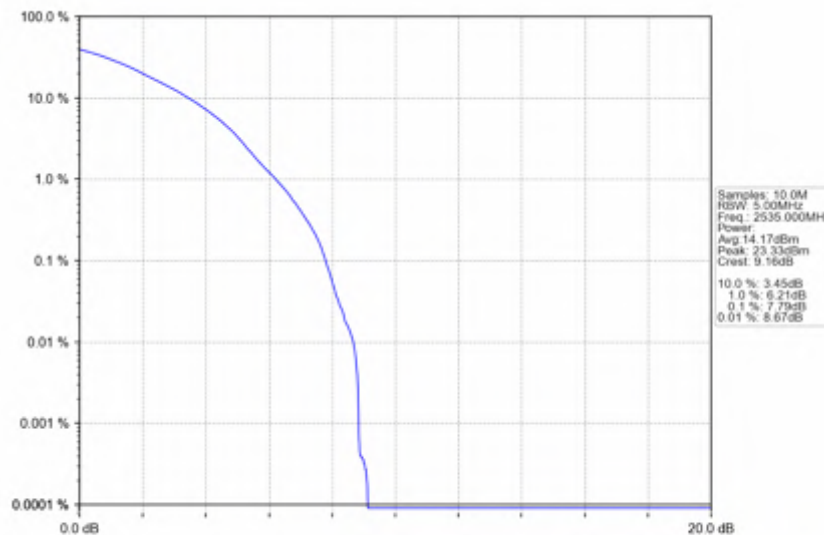
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2515MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CH.Official@sgs.com.

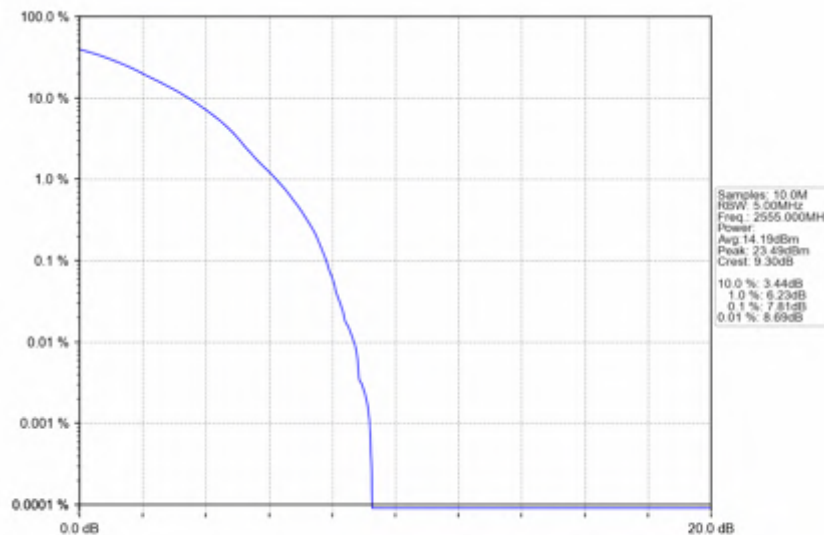
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

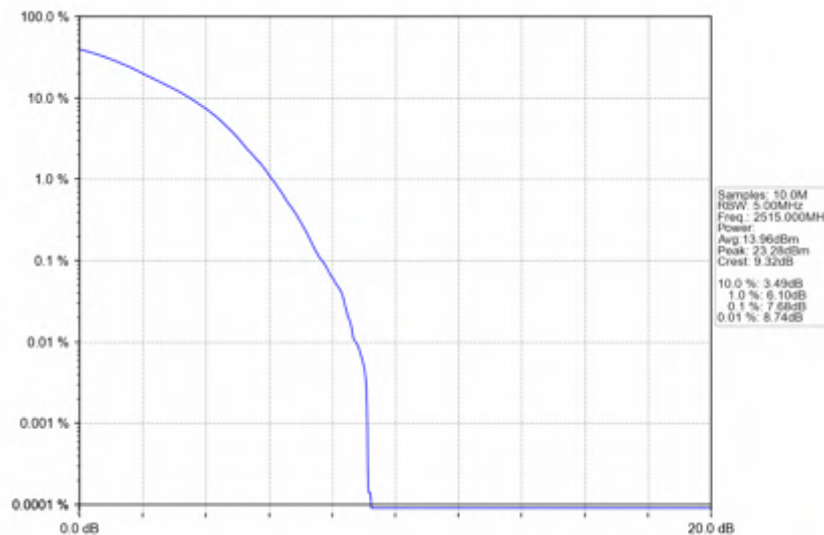
0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2555MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2515MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

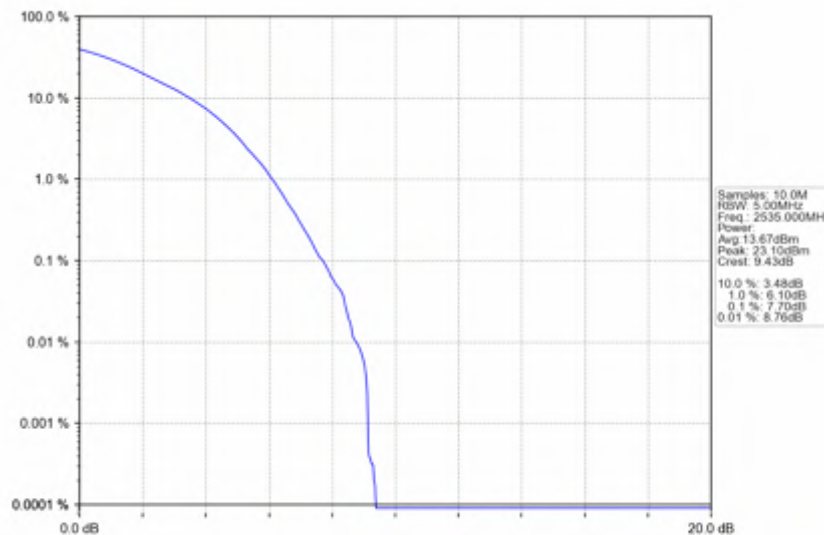
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

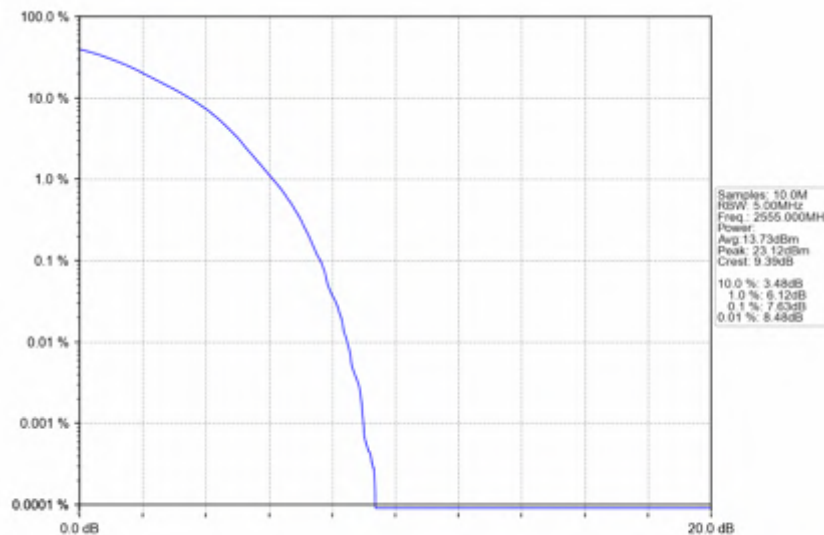
0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2555MHz_Outer_Full



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overall, 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-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CH.Official@sgs.com.

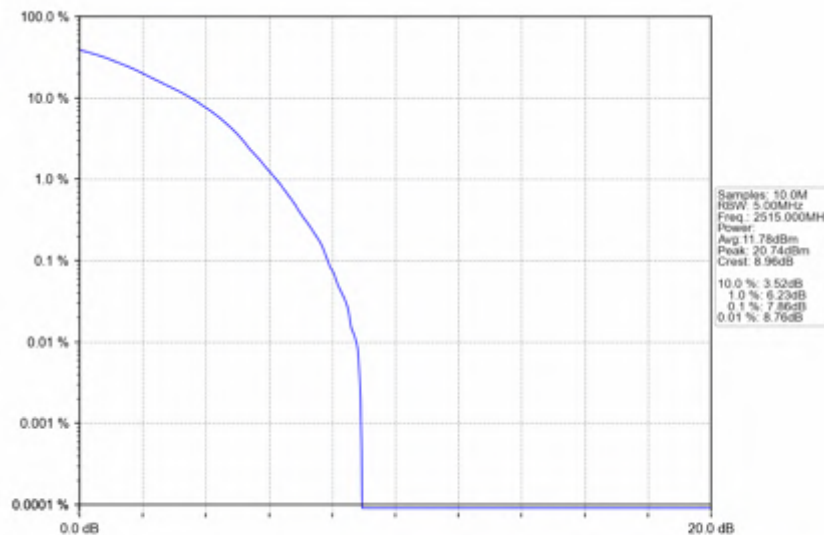
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

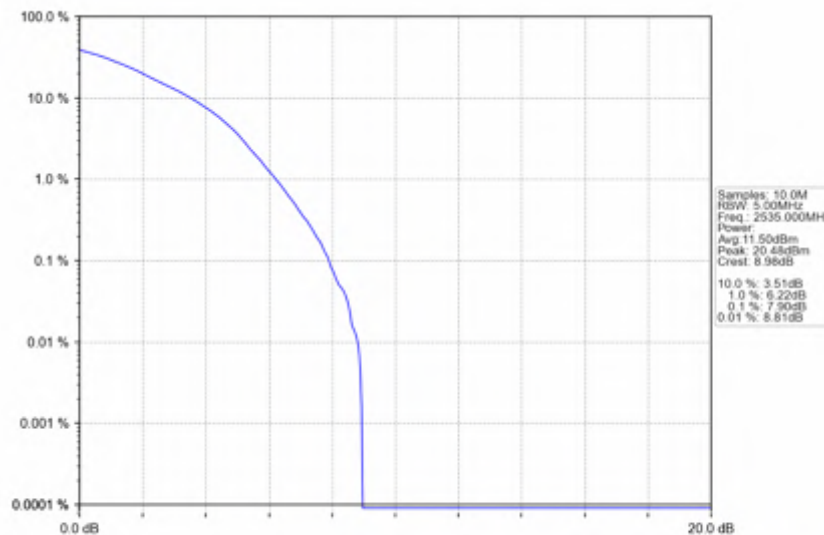
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2515MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full

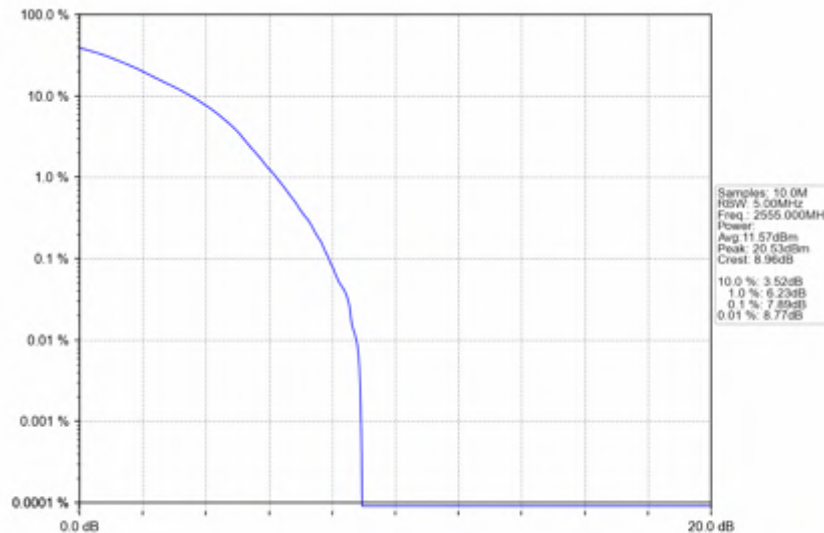


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report and certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

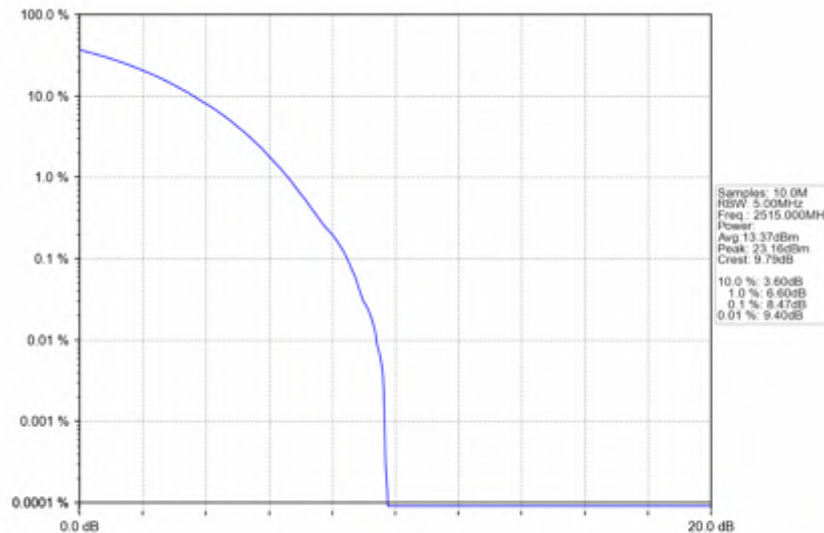
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2555MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_2515MHz_Outer_Full

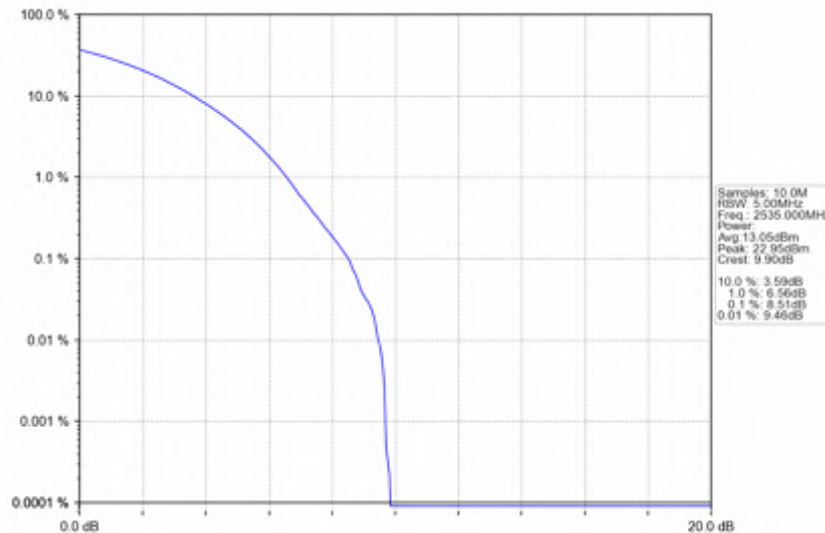


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Online@sgs.com.

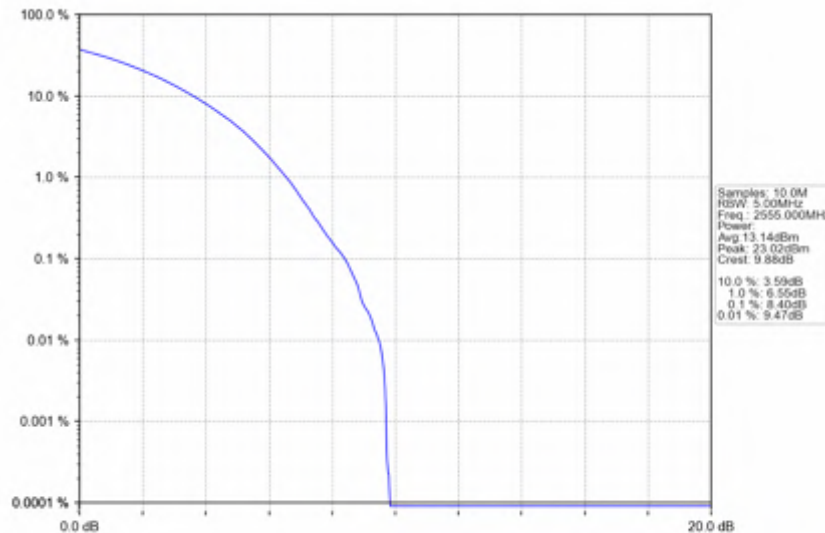
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_2555MHz_Outer_Full



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-a-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 certification reports & certificates, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Check@sgs.com.

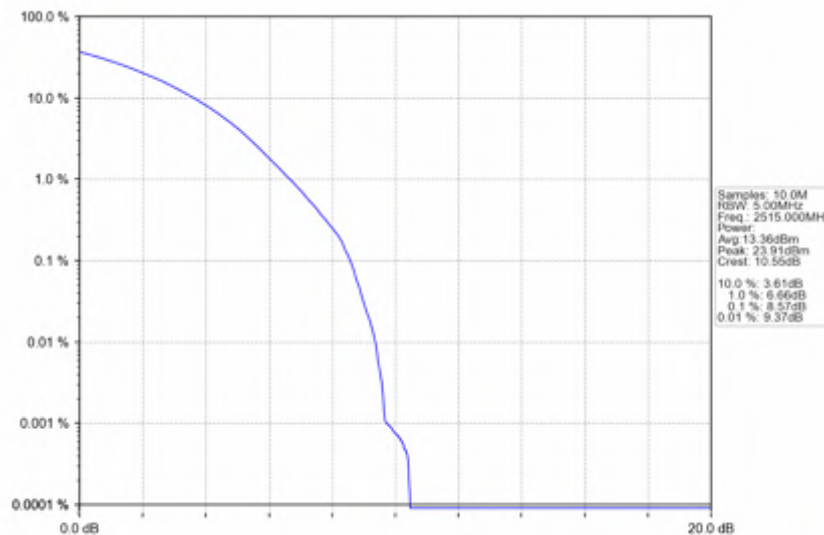
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

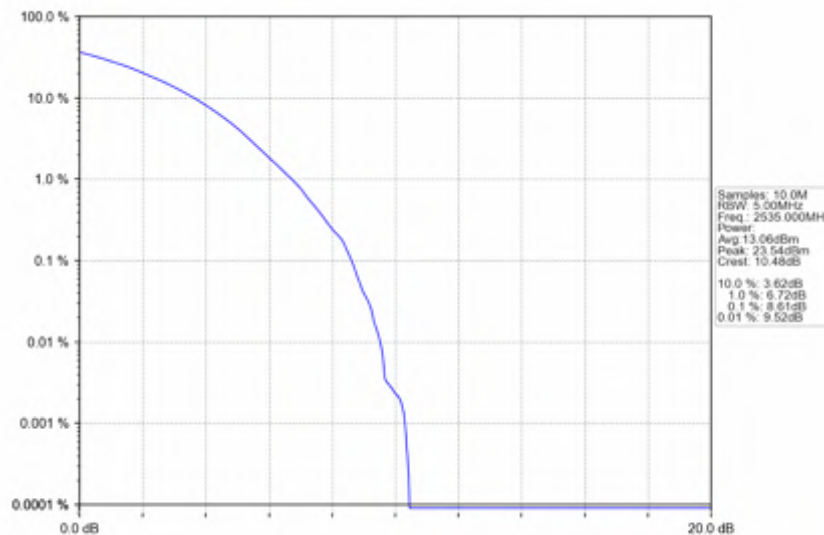
0086-51257350888 006-5125737000 www.sgs.com.cn

0086-51257350888 006-5125737000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_2515MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full

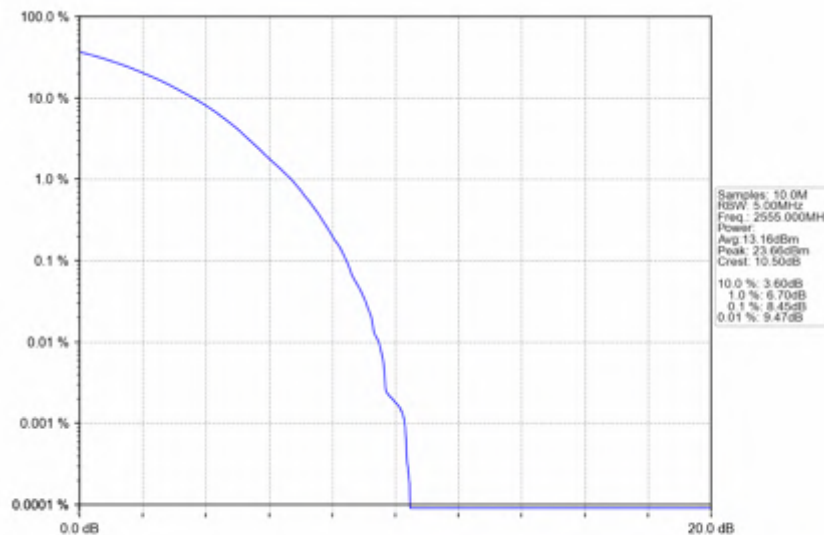


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Check@sgs.com.

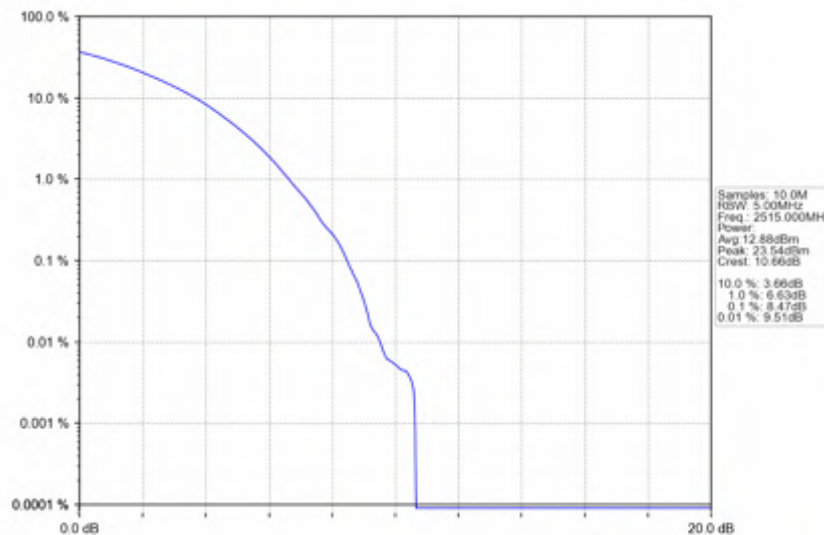
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350888 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2555MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2515MHz_Outer_Full



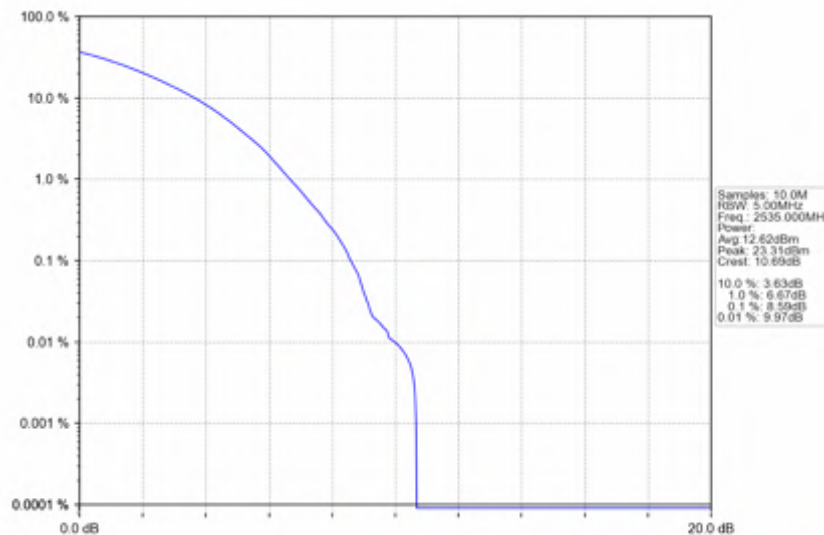
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 report and certificates, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Check@sgs.com.

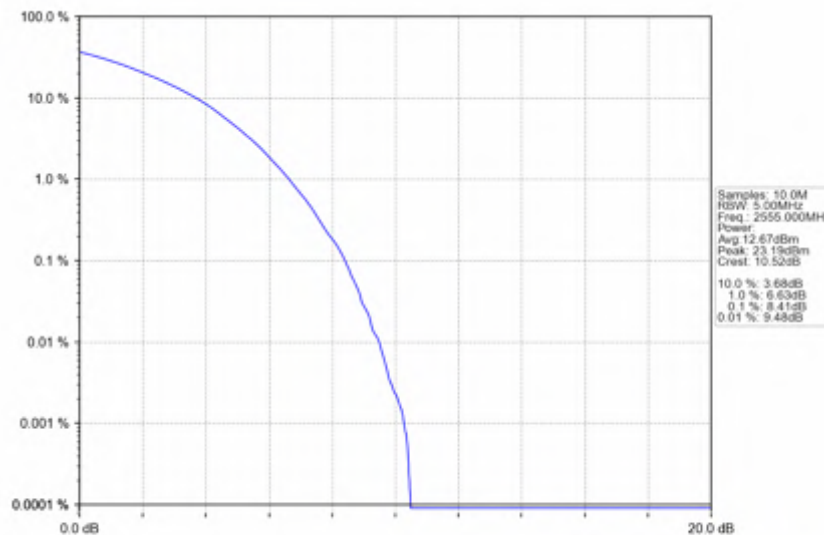
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300. 0086-51257350888 006-5125737000 www.sgs.com.cn

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300 0086-51257350888 006-5125737000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2555MHz_Outer_Full



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overall, 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-a-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 herein 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 report or certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Check@sgs.com.

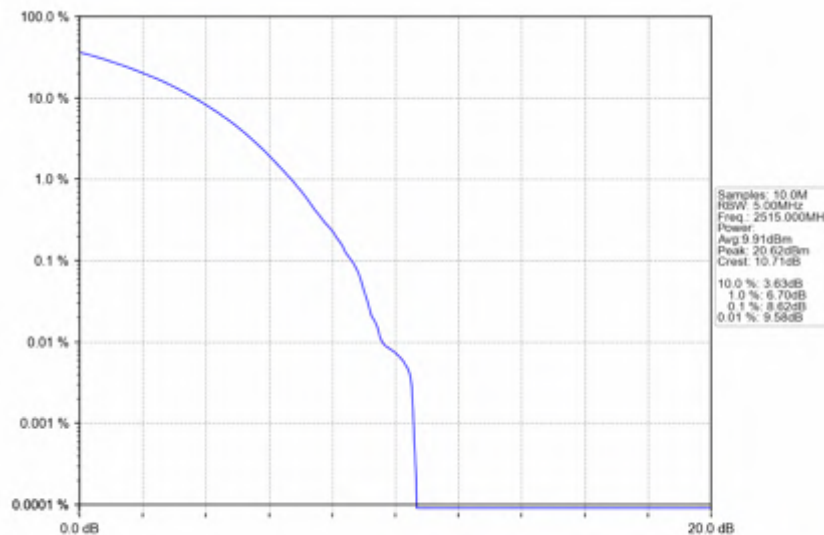
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路18号 邮编 215300

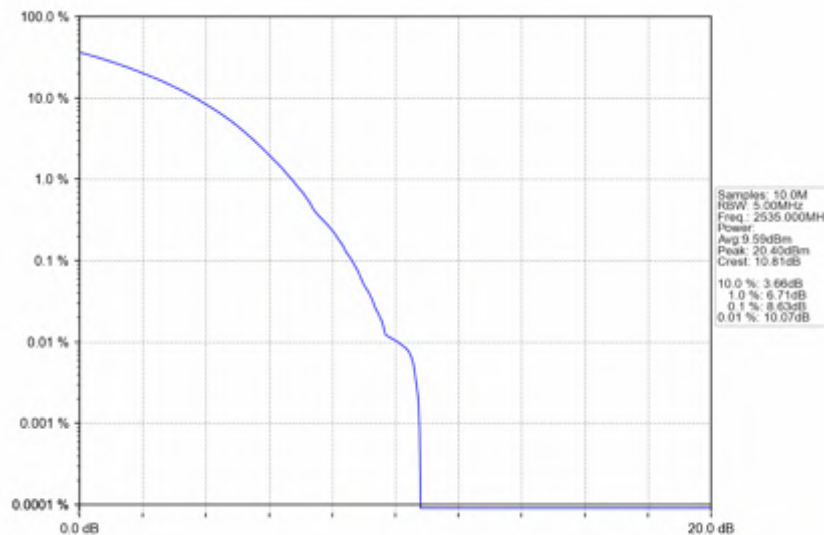
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_2515MHz_Outer_Full



n7_15kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full

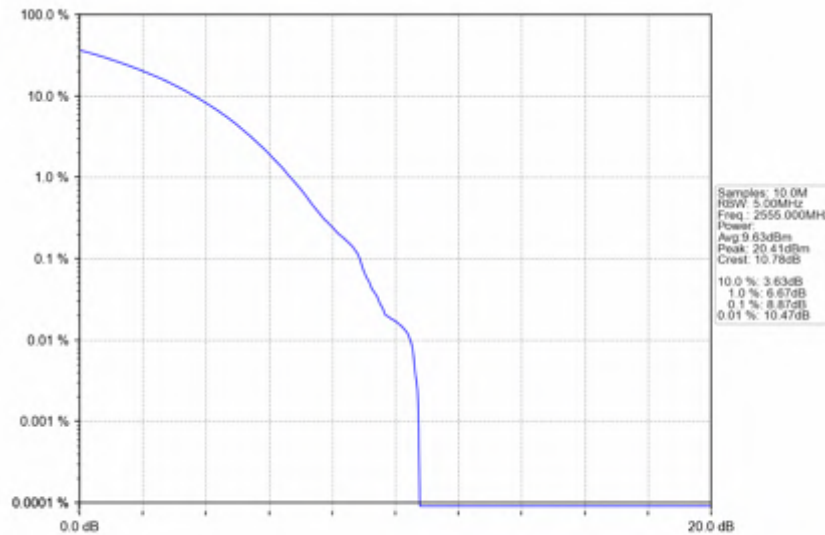


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_2555MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at telephone: (86-512) 57370011 or email: CH.Official@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

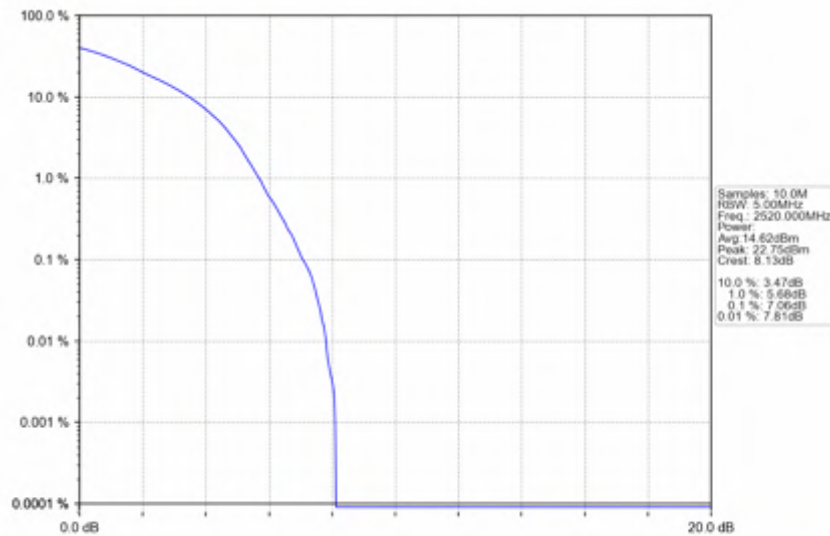
3.7 15k_SISO_40MHz_NTNV

3.7.1 Test Result

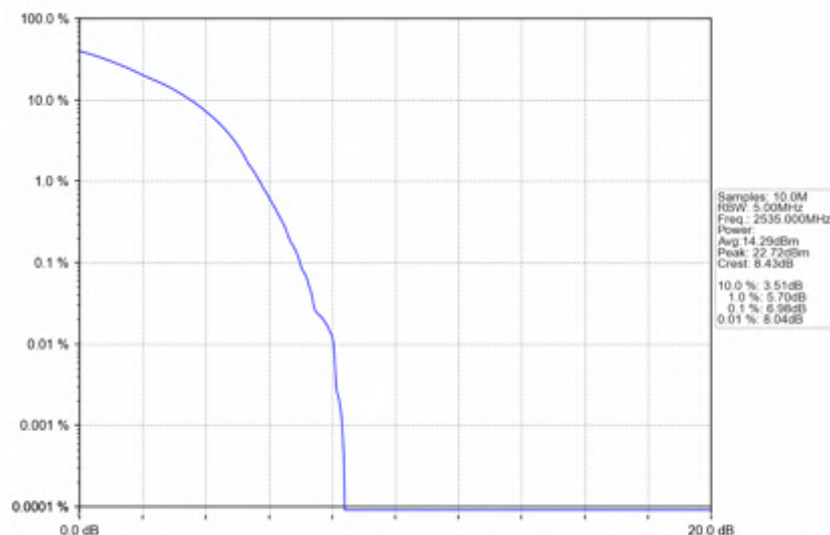
5G NR n7 SCS=15kHz SISO 40MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2520	Outer_Full	7.06	/	/	<=13	Pass
	2535	Outer_Full	6.98	/	/	<=13	Pass
	2550	Outer_Full	6.90	/	/	<=13	Pass
DFT-s-OFDM QPSK	2520	Outer_Full	7.80	/	/	<=13	Pass
	2535	Outer_Full	7.72	/	/	<=13	Pass
	2550	Outer_Full	7.84	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2520	Outer_Full	7.76	/	/	<=13	Pass
	2535	Outer_Full	7.79	/	/	<=13	Pass
	2550	Outer_Full	7.63	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2520	Outer_Full	7.65	/	/	<=13	Pass
	2535	Outer_Full	7.64	/	/	<=13	Pass
	2550	Outer_Full	7.61	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2520	Outer_Full	7.95	/	/	<=13	Pass
	2535	Outer_Full	7.97	/	/	<=13	Pass
	2550	Outer_Full	7.93	/	/	<=13	Pass
CP-OFDM QPSK	2520	Outer_Full	8.39	/	/	<=13	Pass
	2535	Outer_Full	8.30	/	/	<=13	Pass
	2550	Outer_Full	8.38	/	/	<=13	Pass
CP-OFDM 16 QAM	2520	Outer_Full	8.37	/	/	<=13	Pass
	2535	Outer_Full	8.39	/	/	<=13	Pass
	2550	Outer_Full	8.42	/	/	<=13	Pass
CP-OFDM 64 QAM	2520	Outer_Full	8.55	/	/	<=13	Pass
	2535	Outer_Full	8.59	/	/	<=13	Pass
	2550	Outer_Full	8.61	/	/	<=13	Pass
CP-OFDM 256 QAM	2520	Outer_Full	8.48	/	/	<=13	Pass
	2535	Outer_Full	8.26	/	/	<=13	Pass
	2550	Outer_Full	8.58	/	/	<=13	Pass

3.7.2 Test Graph

n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2520MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2535MHz_Outer_Full



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-a-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 report and certificate, please connect us at sgs@sgs.com or CN-Check@sgs.com.

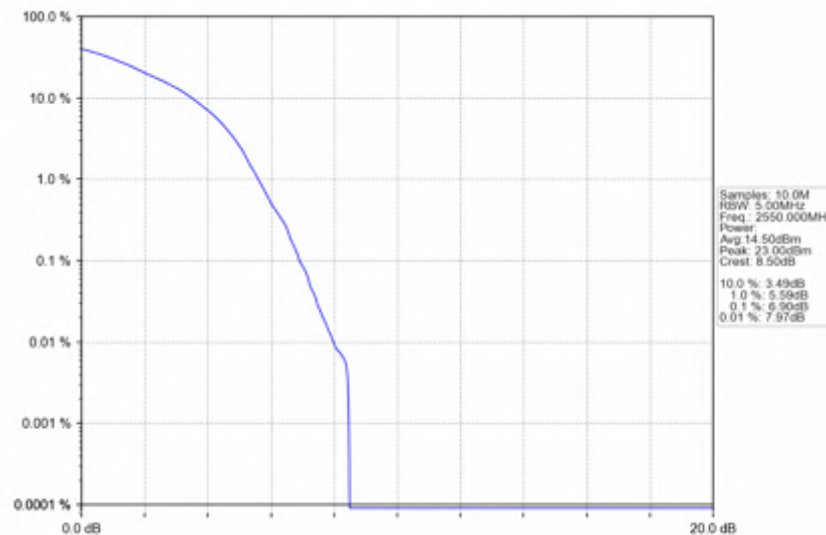
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

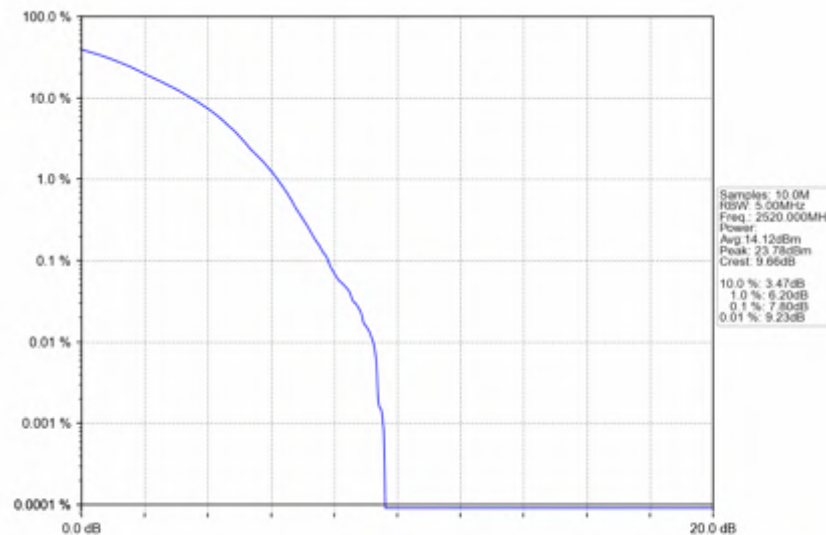
0512-57350888 0512-57370910 www.sgs.com.cn

0512-57350883 0512-57370911 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2550MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2520MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011 or email: CN-Online@sgs.com.

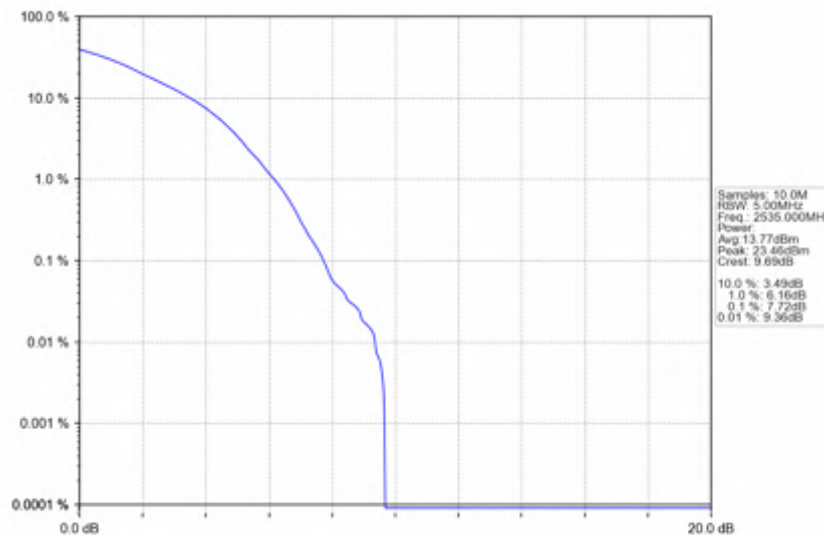
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

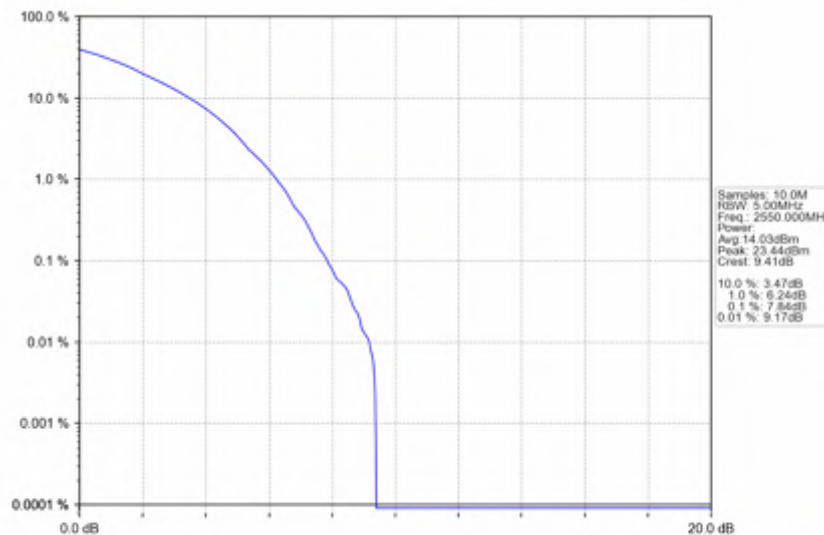
0086-51257350888 006-51257370011 www.sgs.com.cn

0086-51257350888 006-51257370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_2550MHz_Outer_Full

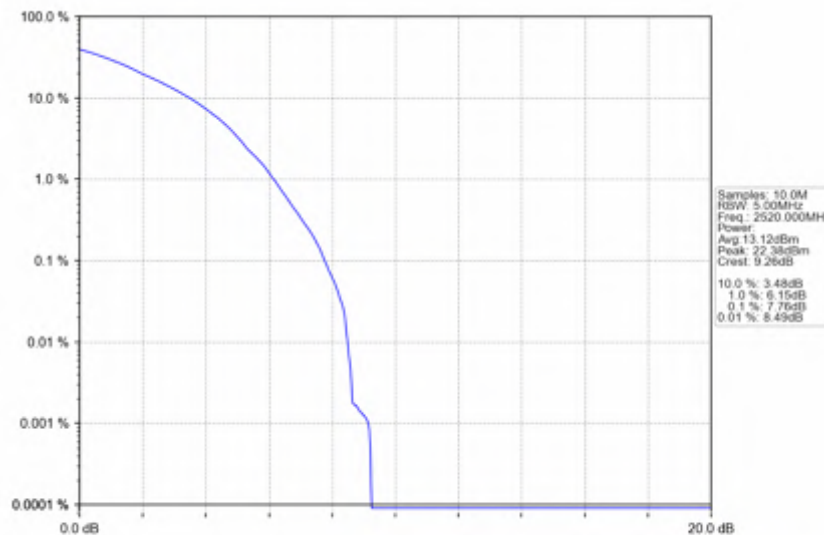


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

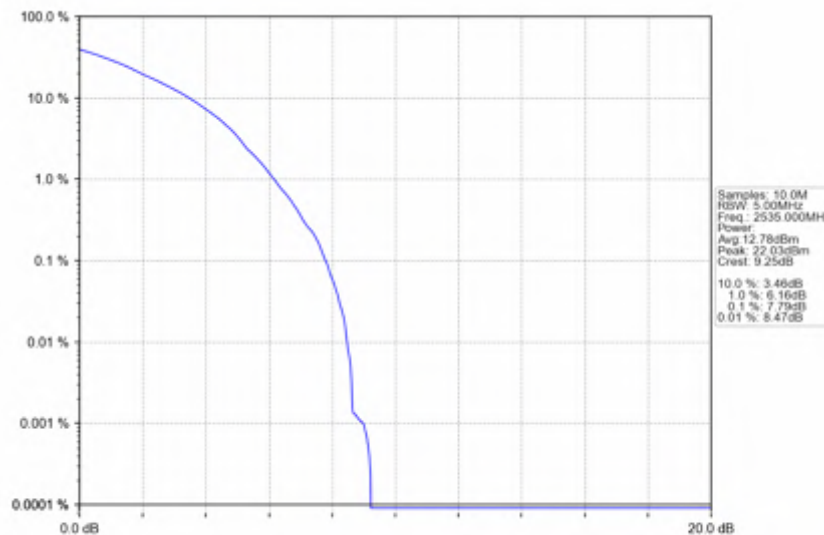
Attention: To check the authenticity of testing certification report & certificate, please connect us at CH.Official@sgs.com
 No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0512-57350888 0512-57370910 www.sgs.com.cn
 0512-57350883 0512-57370911 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2520MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com or CN-Online@sgs.com.

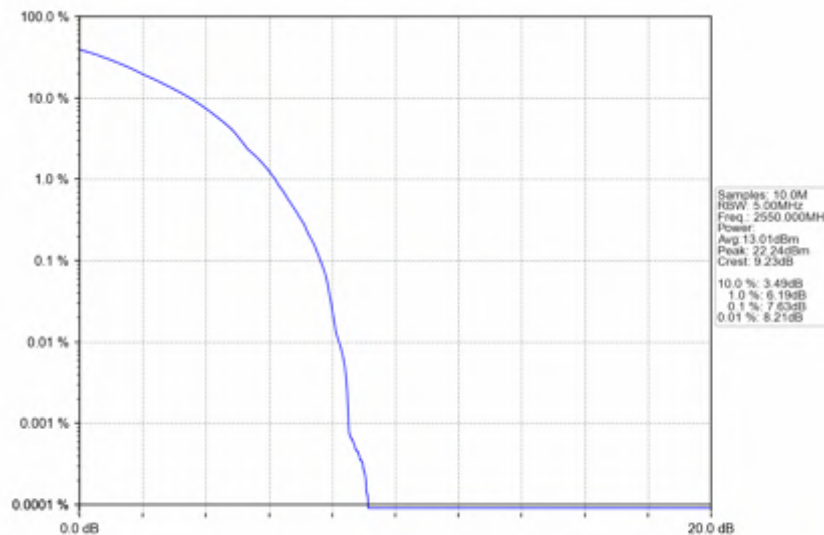
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

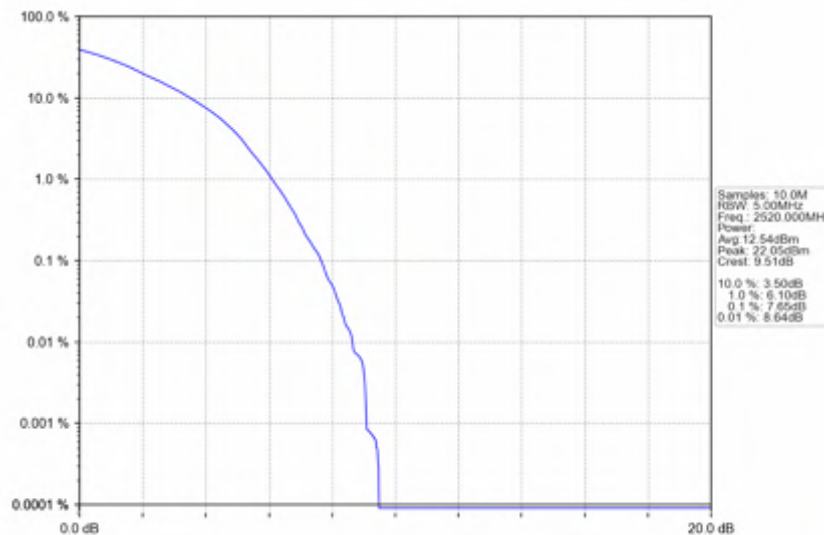
086-51215735088 086-51215737010 www.sgs.com.cn

086-51215735088 086-51215737010 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16 QAM_2550MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64 QAM_2520MHz_Outer_Full

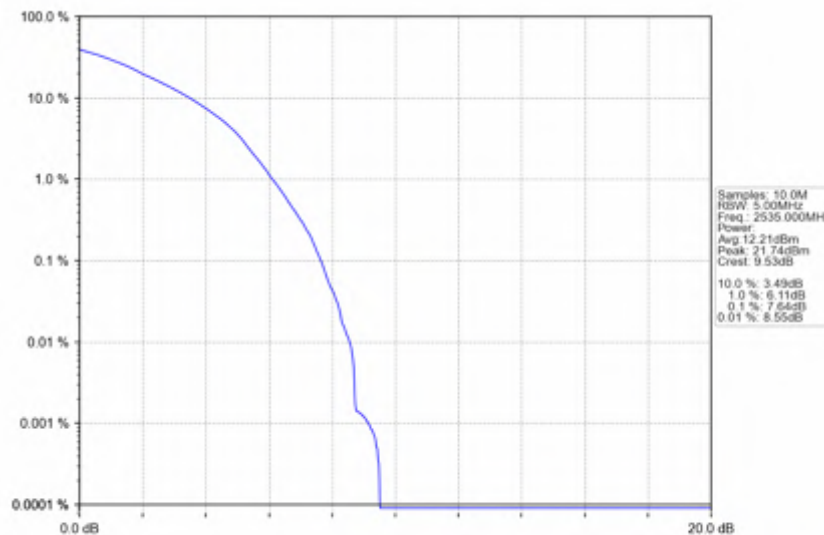


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

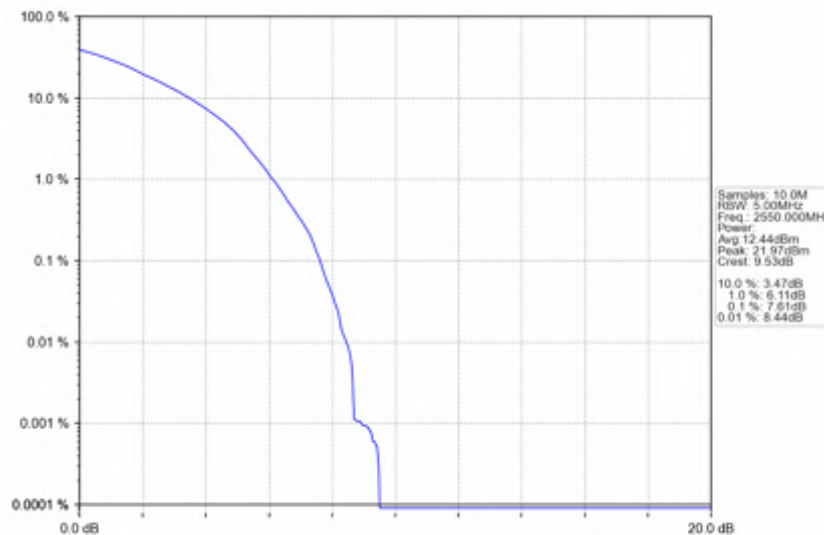
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_2550MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com or CN-Online@sgs.com.

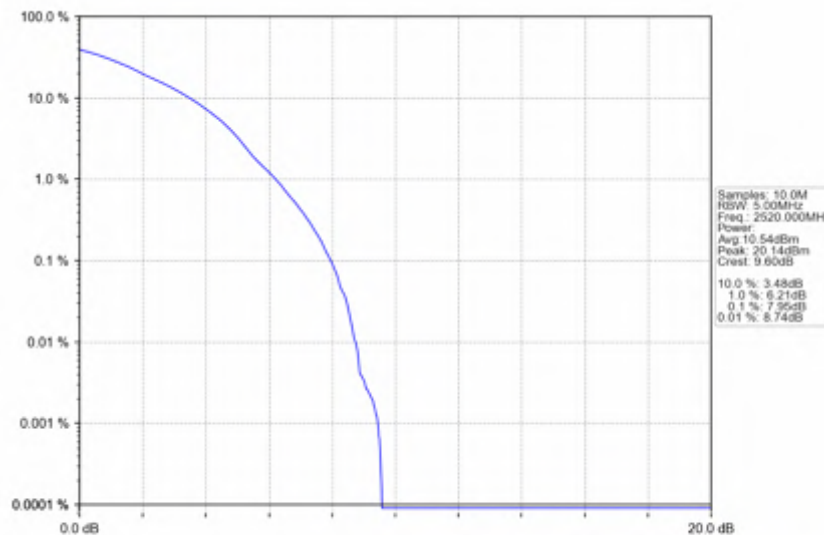
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

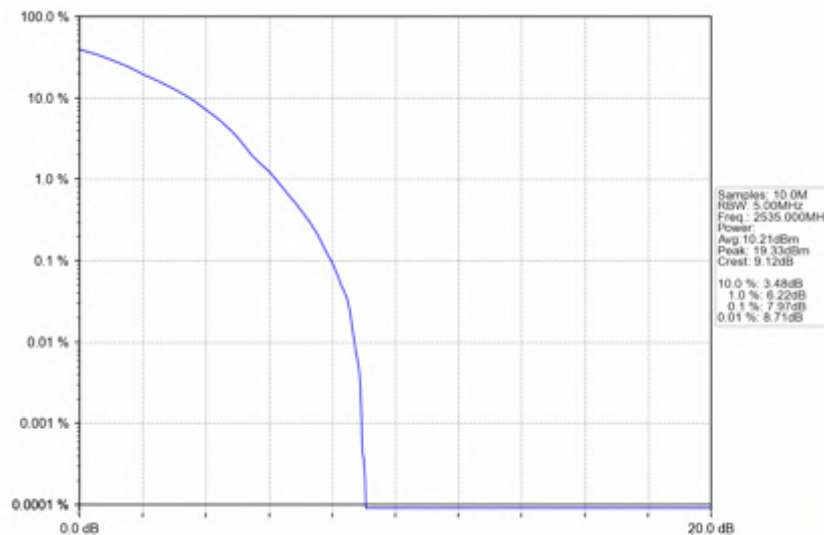
0512-51257350888 0512-51257370910 www.sgs.com.cn

0512-51257350888 0512-51257370910 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_2520MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



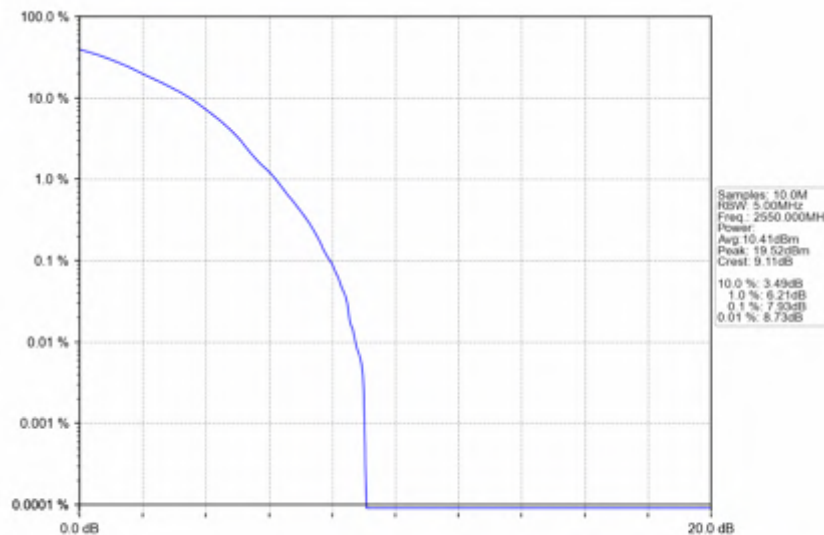
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

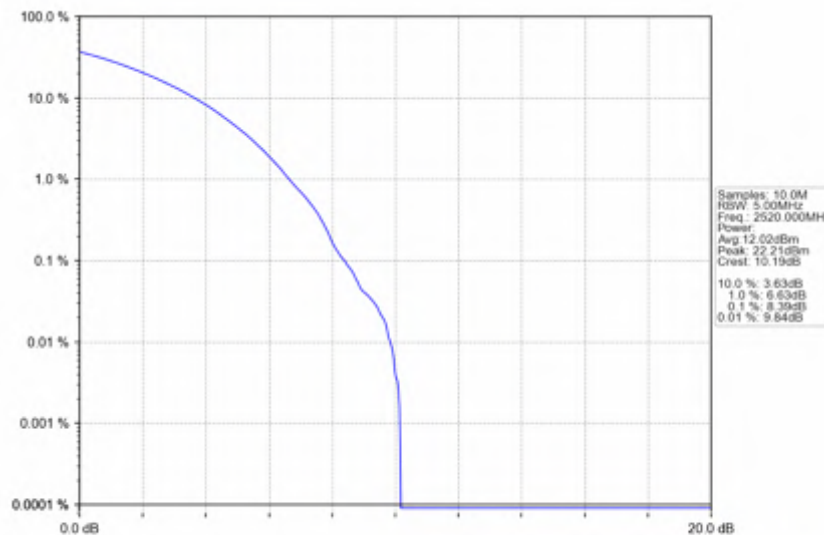
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

086-51257350888 086-51257370000 www.sgs.com.cn
086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_2550MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_2520MHz_Outer_Full

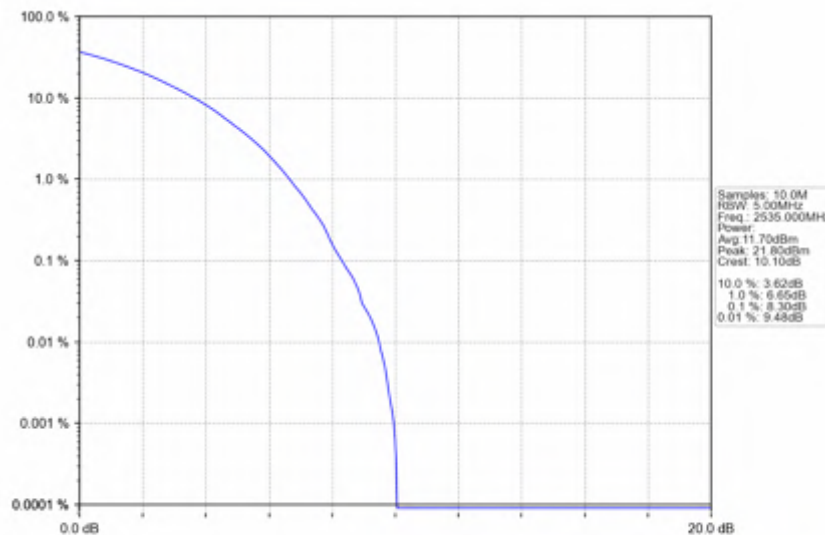


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

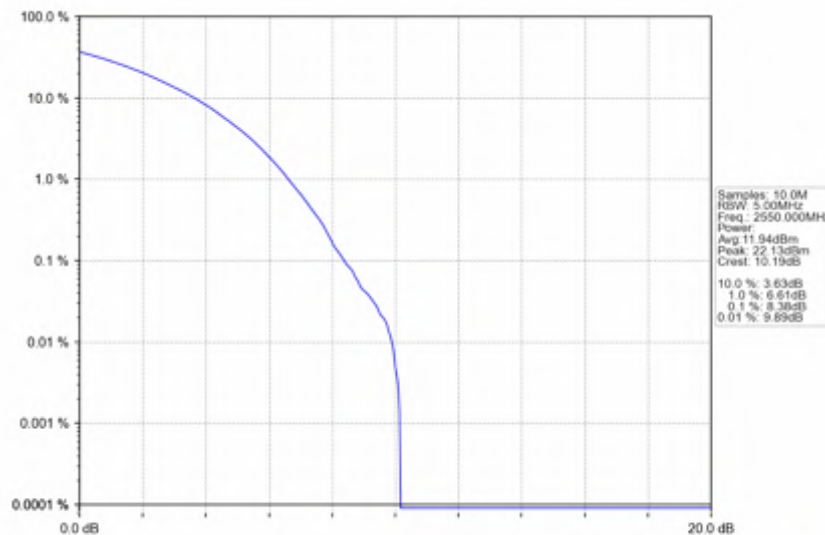
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370010 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_2550MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at CH-Online@sgs.com or email: CH-Online@sgs.com.

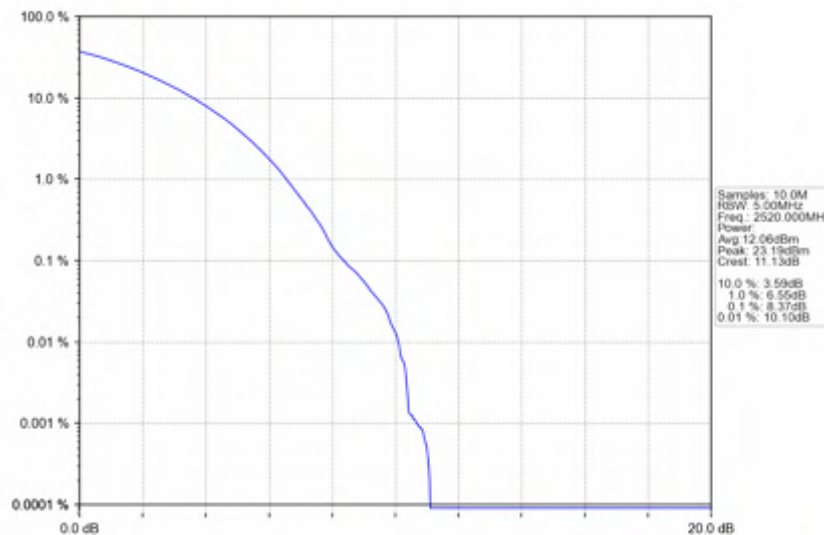
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

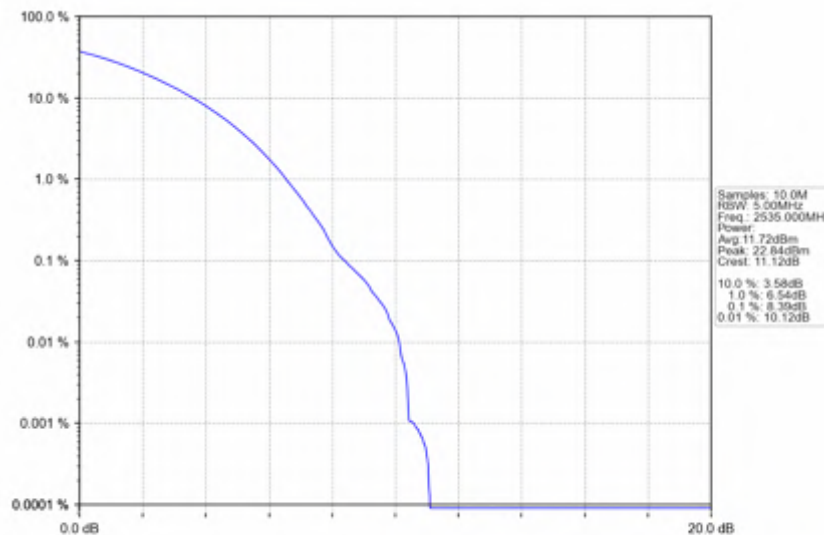
0512-57350888 0512-57370910 www.sgs.com.cn

0512-57350883 0512-57370910 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_2520MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57350000 or email: CN-Check@sgs.com.

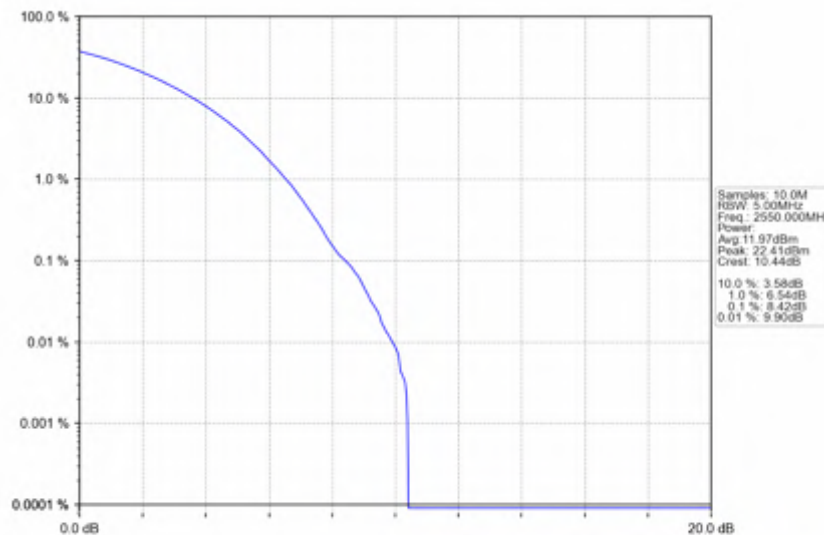
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

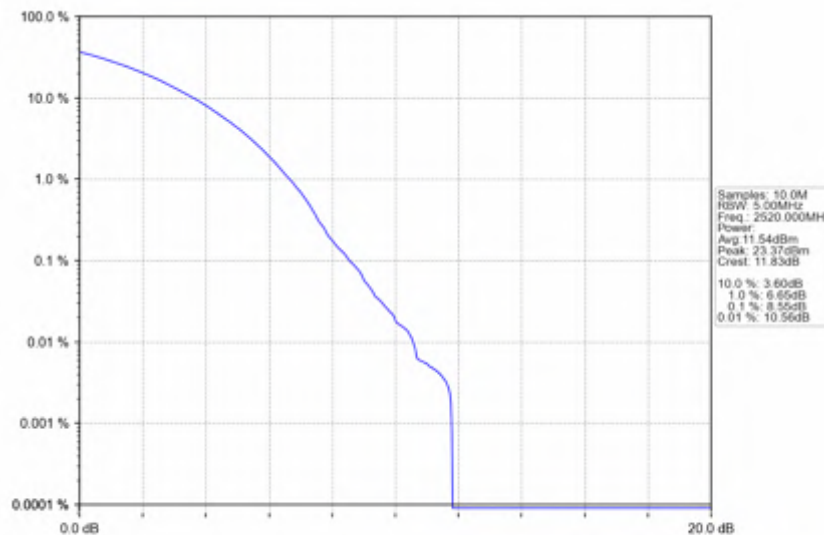
086-51257350000 086-51257370000 www.sgs.com.cn

086-51257350000 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2550MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2520MHz_Outer_Full



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-a-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 certification reports & certificates, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Check@sgs.com.

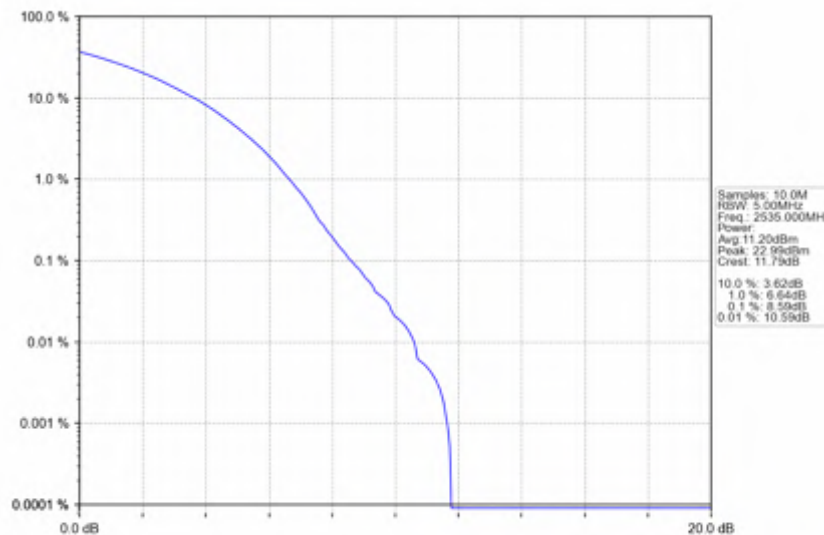
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

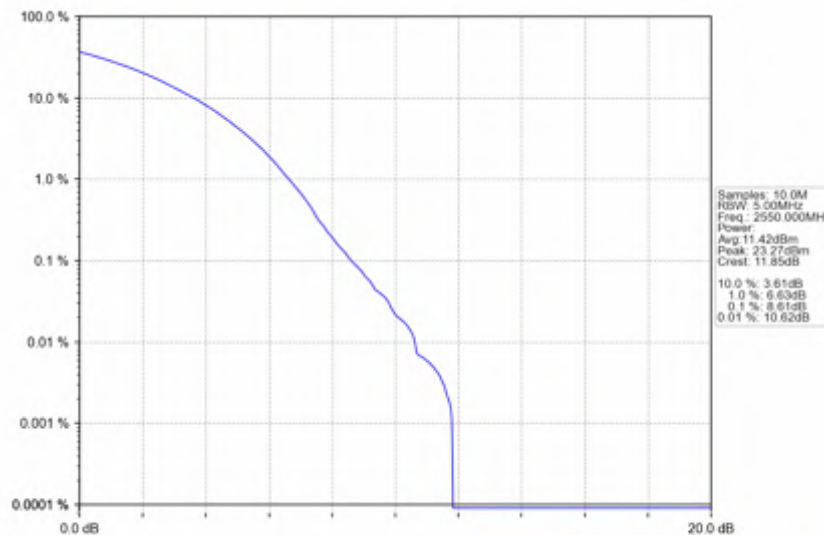
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2550MHz_Outer_Full

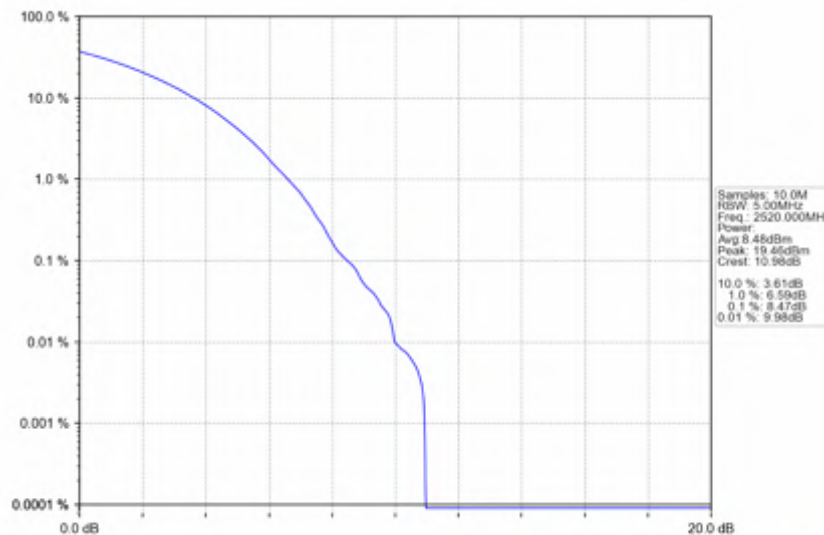


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

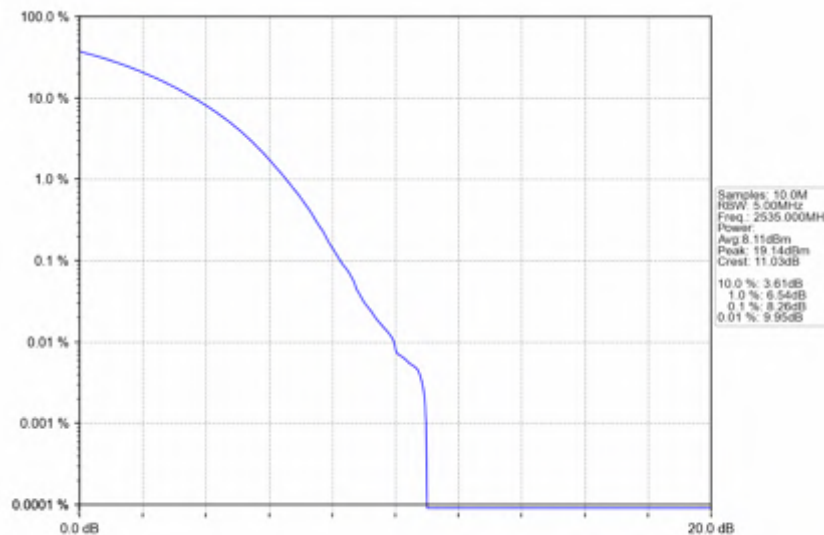
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370010 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_2520MHz_Outer_Full



n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full

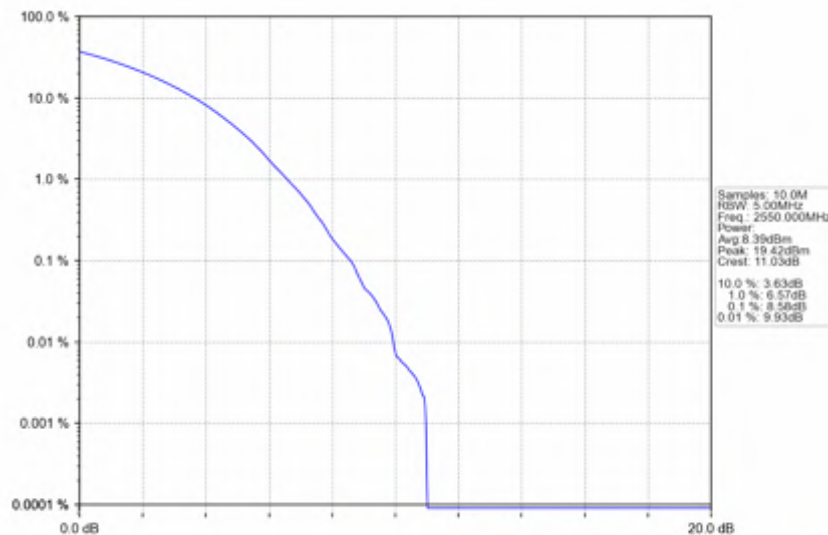


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370010 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_2550MHz_Outer_Full



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-a-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 notification report & certificate, please connect us at telephone: (+86-512) 57370011 or email: CN-Check@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0086-512/57350888 006-512/57370011 www.sgs.com.cn

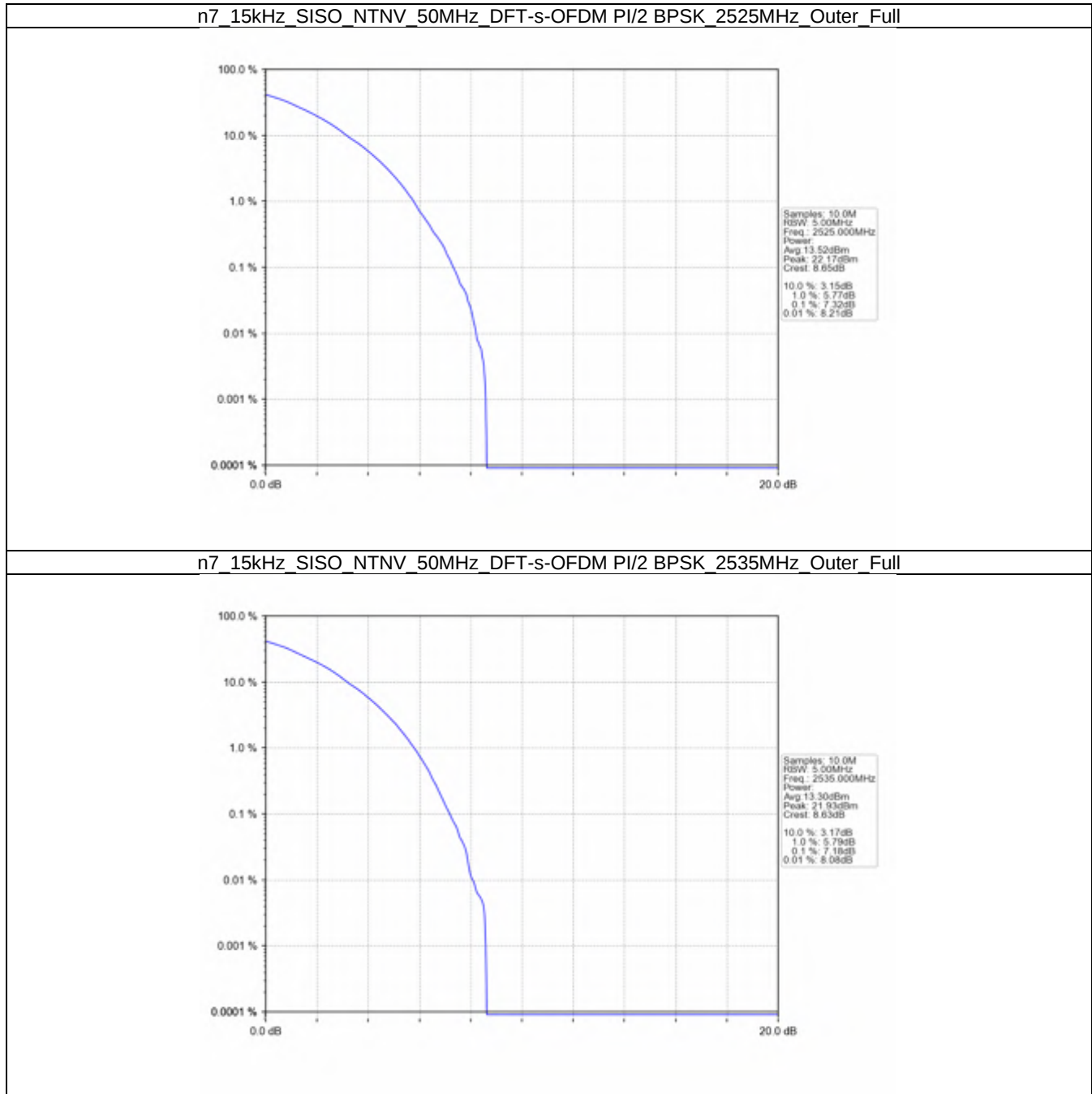
0086-512/57350888 006-512/57370011 sgs.china@sgs.com

3.8 15k_SISO_50MHz_NTNV

3.8.1 Test Result

5G NR n7 SCS=15kHz SISO 50MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2525	Outer_Full	7.32	/	/	<=13	Pass
	2535	Outer_Full	7.18	/	/	<=13	Pass
	2545	Outer_Full	7.06	/	/	<=13	Pass
DFT-s-OFDM QPSK	2525	Outer_Full	7.86	/	/	<=13	Pass
	2535	Outer_Full	7.98	/	/	<=13	Pass
	2545	Outer_Full	7.91	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2525	Outer_Full	7.79	/	/	<=13	Pass
	2535	Outer_Full	7.80	/	/	<=13	Pass
	2545	Outer_Full	7.76	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2525	Outer_Full	8.17	/	/	<=13	Pass
	2535	Outer_Full	8.19	/	/	<=13	Pass
	2545	Outer_Full	8.19	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2525	Outer_Full	7.81	/	/	<=13	Pass
	2535	Outer_Full	7.89	/	/	<=13	Pass
	2545	Outer_Full	7.90	/	/	<=13	Pass
CP-OFDM QPSK	2525	Outer_Full	8.26	/	/	<=13	Pass
	2535	Outer_Full	8.24	/	/	<=13	Pass
	2545	Outer_Full	8.38	/	/	<=13	Pass
CP-OFDM 16 QAM	2525	Outer_Full	8.14	/	/	<=13	Pass
	2535	Outer_Full	8.30	/	/	<=13	Pass
	2545	Outer_Full	8.58	/	/	<=13	Pass
CP-OFDM 64 QAM	2525	Outer_Full	8.52	/	/	<=13	Pass
	2535	Outer_Full	8.54	/	/	<=13	Pass
	2545	Outer_Full	8.67	/	/	<=13	Pass
CP-OFDM 256 QAM	2525	Outer_Full	8.28	/	/	<=13	Pass
	2535	Outer_Full	8.29	/	/	<=13	Pass
	2545	Outer_Full	8.63	/	/	<=13	Pass

3.8.2 Test Graph



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-and-Conditions.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 report and certificate, please connect us at sgs@sgs.com or CN-Online@sgs.com.

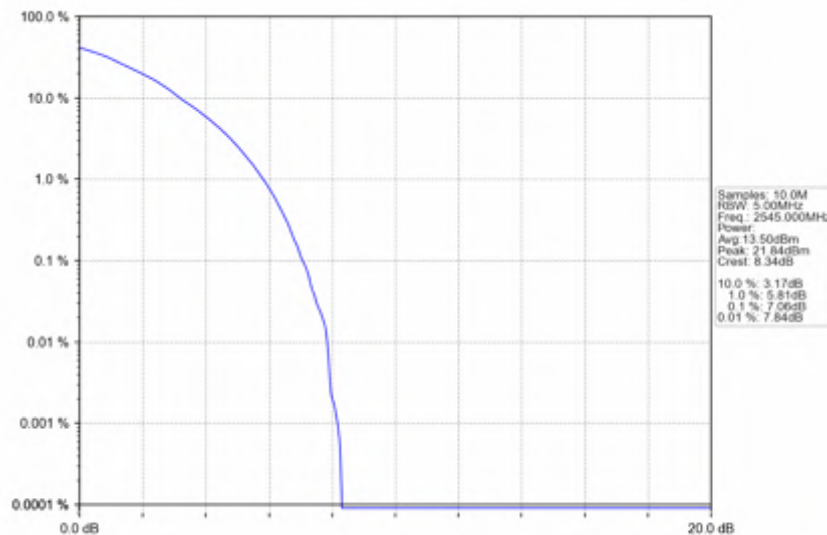
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

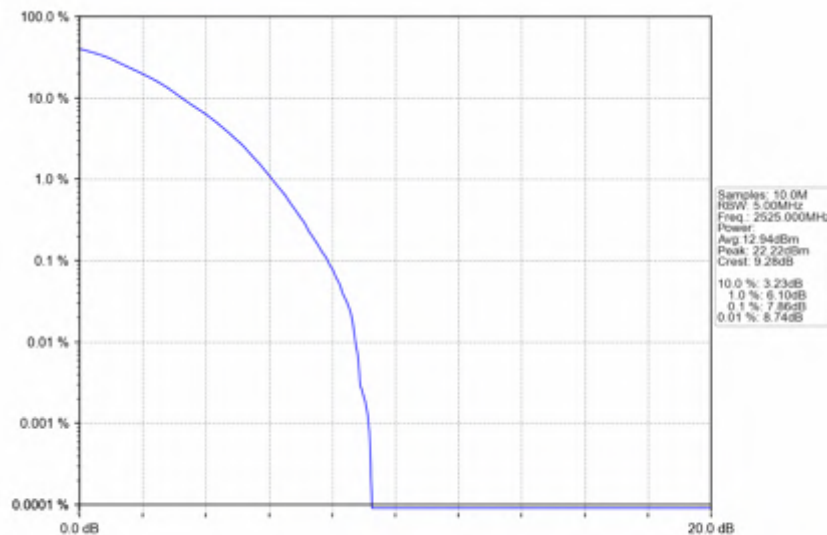
0512-57350888 0512-57370910 www.sgs.com

0512-57350883 0512-57370911 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_2545MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2525MHz_Outer_Full



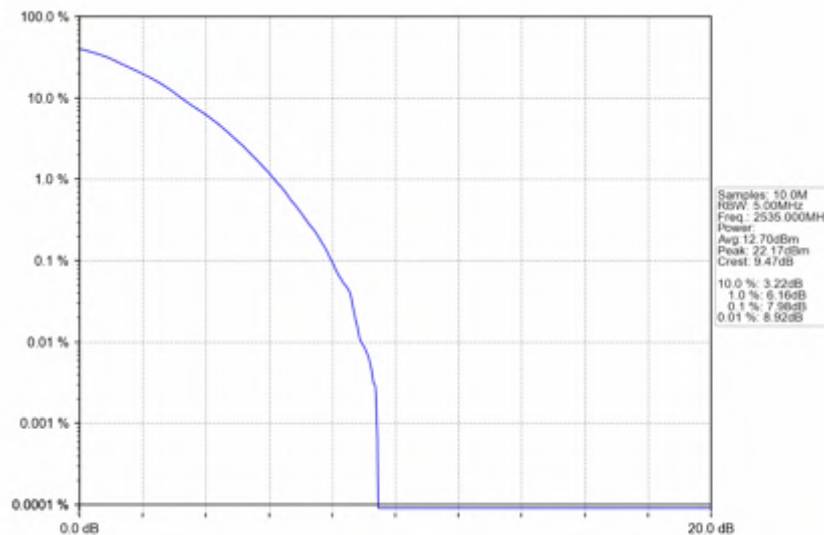
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011 or email: CN-Check@sgs.com.

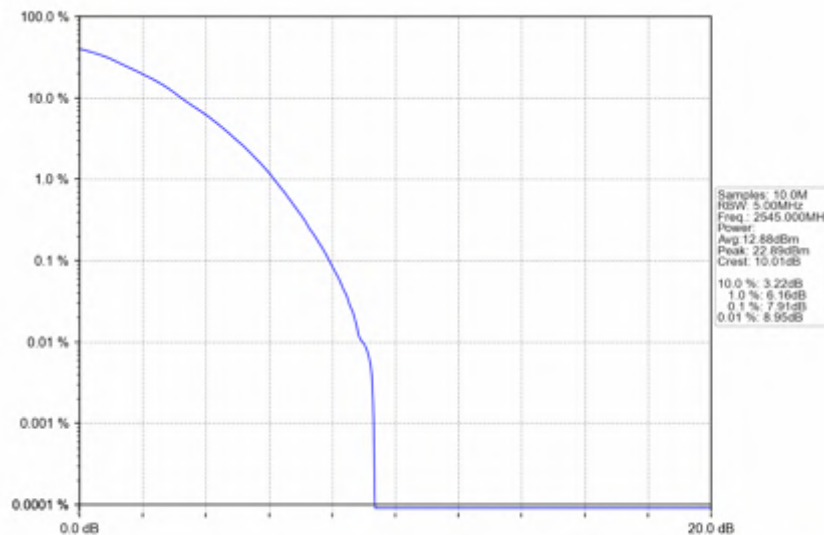
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0086-51257350888 006-51257370011 www.sgs.com.cn
0086-51257350888 006-51257370011 sgs.china@sgs.com

n7 15kHz SISO NTNv 50MHz DFT-s-OFDM QPSK 2535MHz Outer Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_QPSK_2545MHz_Outer_Full

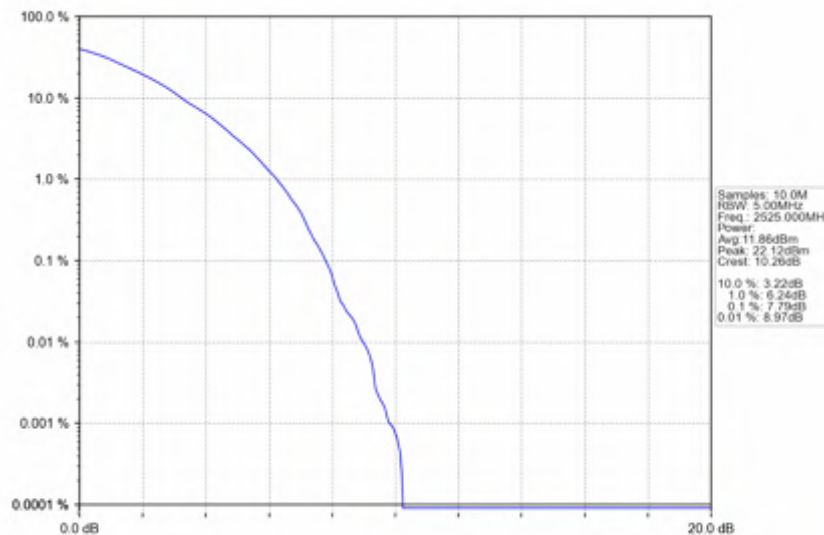


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed hereon, available on request or accessible at <http://www.etsi.com/ETSI-Products-and-Conditions.aspx> and, for selected forms, printed subject to Terms and Conditions for Electronic Documents at <http://www.etsi.com/Products-and-Conditions/Terms-a-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 findings at the time of its intervention only and within the limits of the Company's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a trial from their responsibility to the court. The Company's responsibility is limited to the occurrence of a technical error in the report, 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 fast report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. For more information on the use of this document, please contact the Company at info@etsi.com or <tel:+352437342000>.

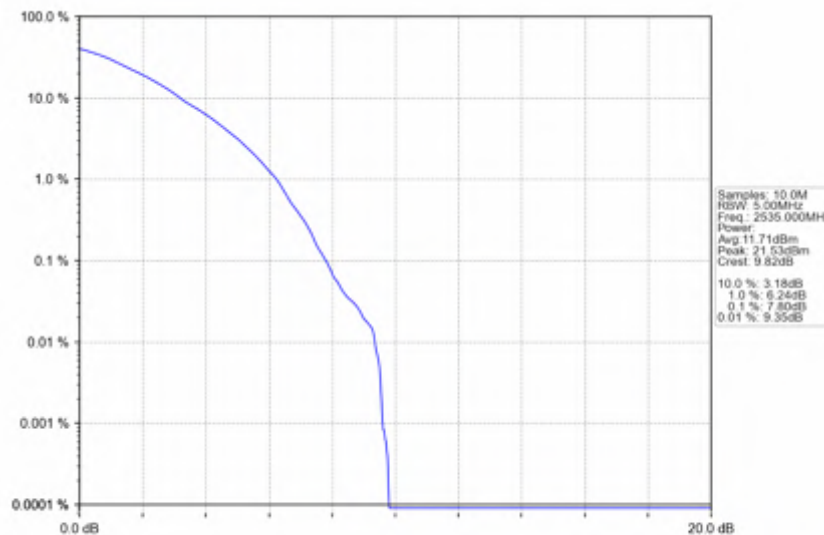
中国·江苏·昆山市周庄生创业园伟业路10号 邮编 215300

086-5125735688 086-5125737000 www.sgsgroup.com.cn
086-5125735688 086-5125737000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

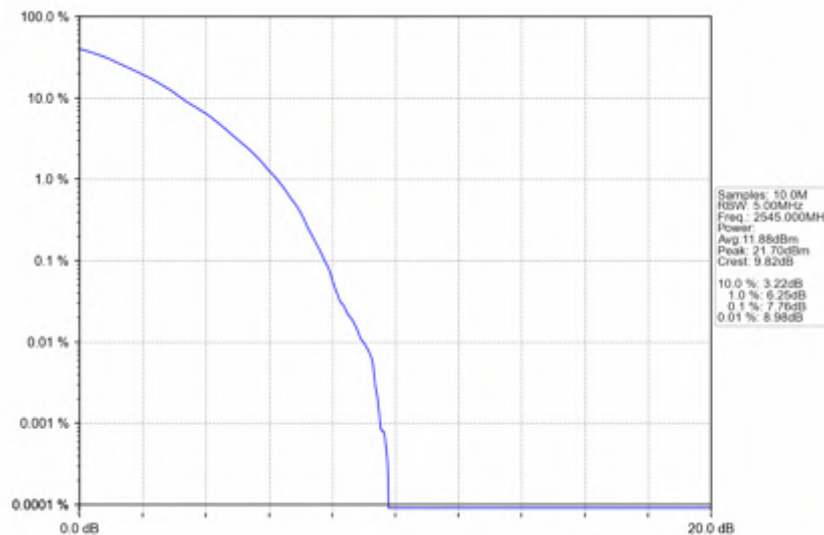
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

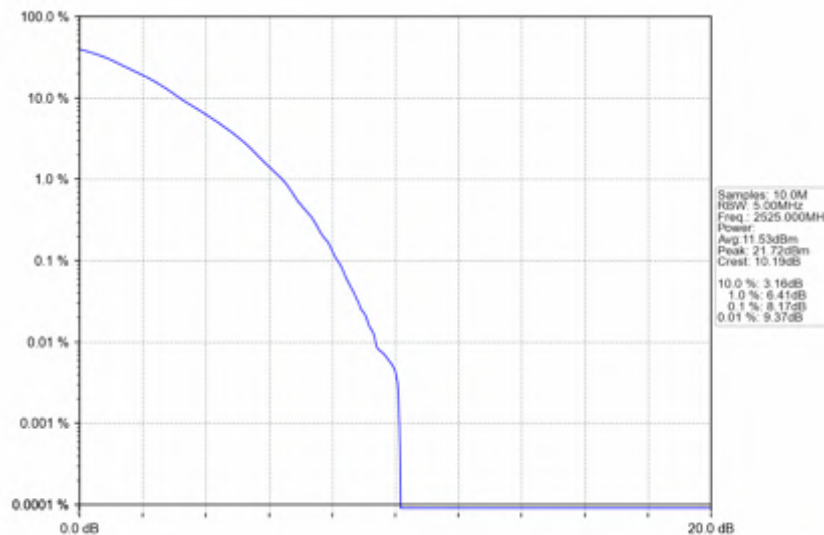
0086-51257350888 006-5125737000 www.sgs.com.cn

0086-51257350888 006-5125737000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_2545MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_2525MHz_Outer_Full



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-a-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 herein 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 report and certificates, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

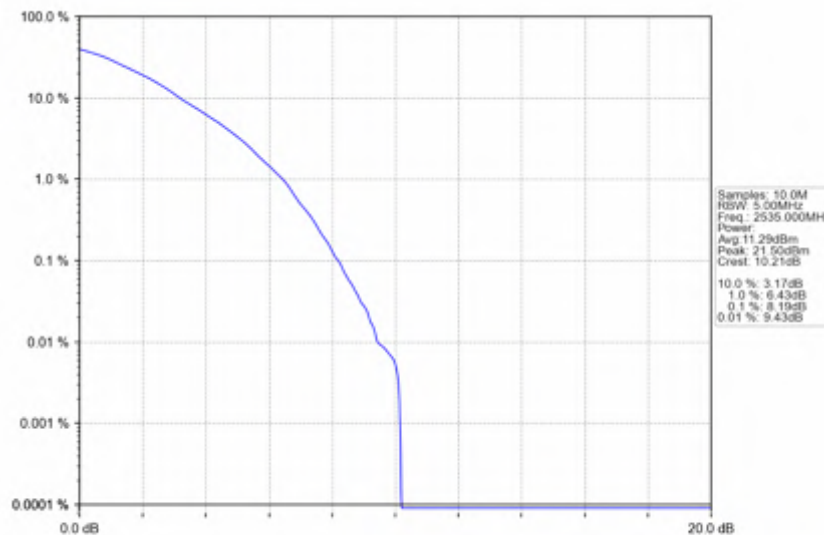
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

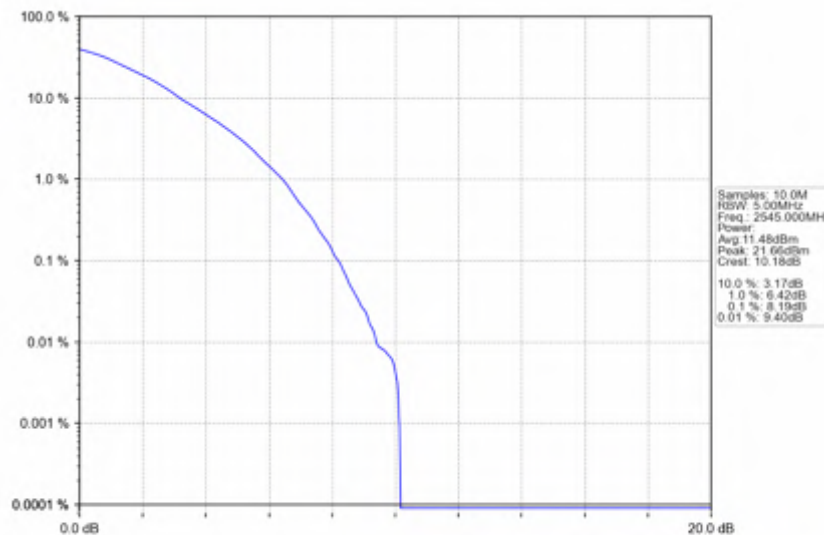
0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_2545MHz_Outer_Full



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-a-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 certification reports & certificates, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

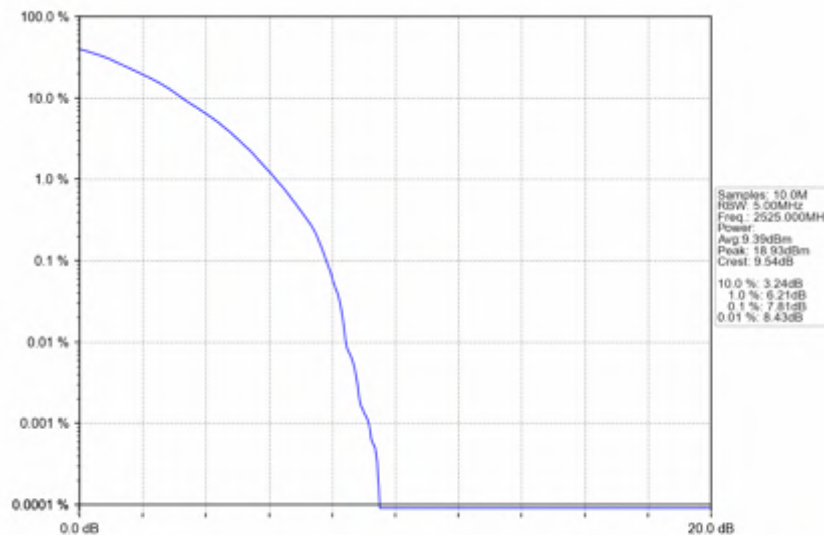
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

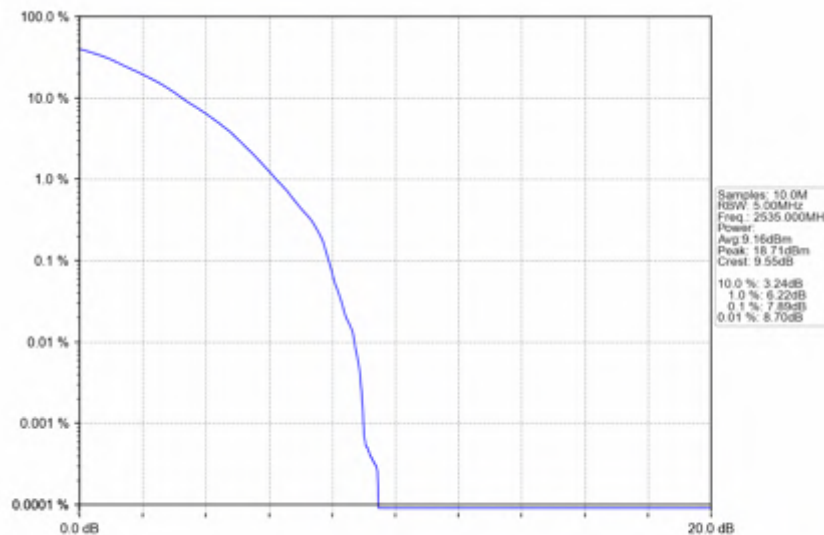
0086-51257350888 006-5125737000 www.sgs.com.cn

0086-51257350888 006-5125737000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

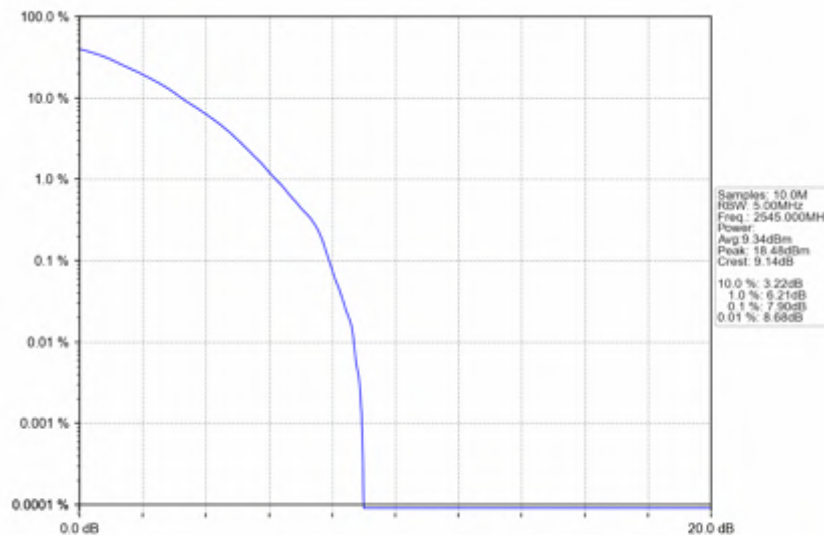
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

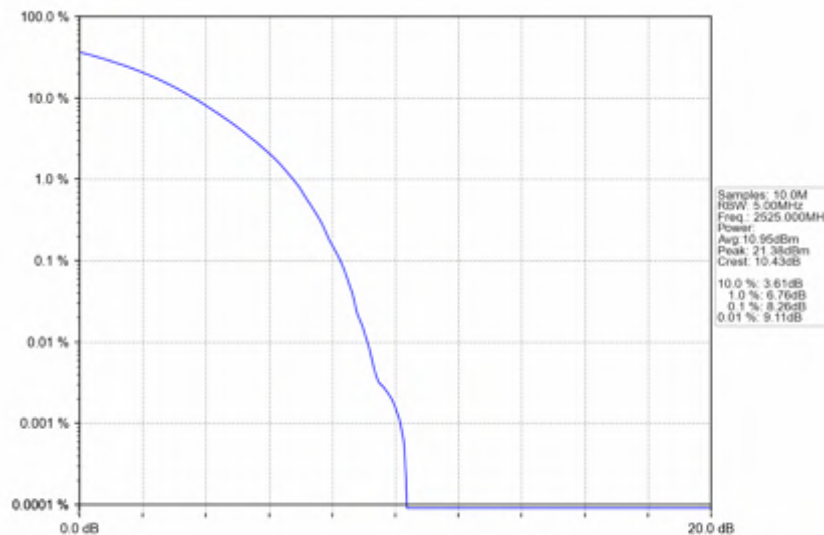
0086-51257350888 006-5125737000 www.sgs.com.cn

0086-51257350888 006-5125737000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_2545MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM_QPSK_2525MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011 or email: CN-Check@sgs.com.

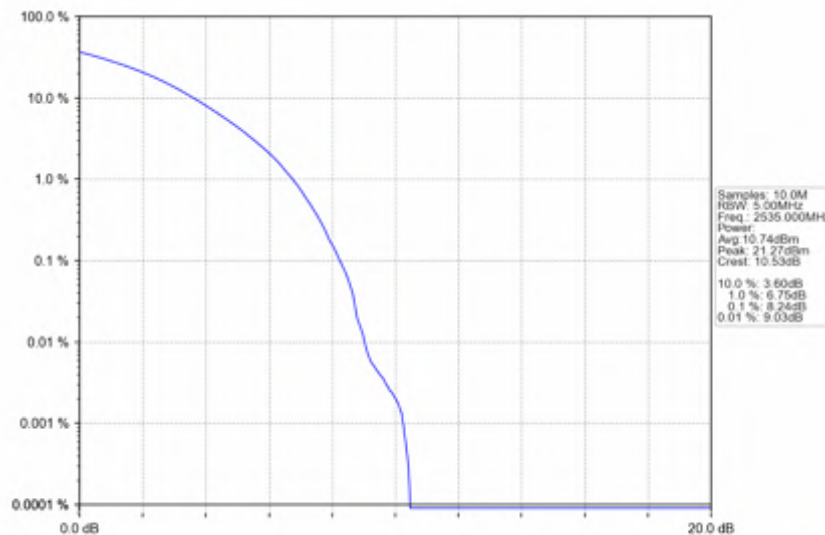
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

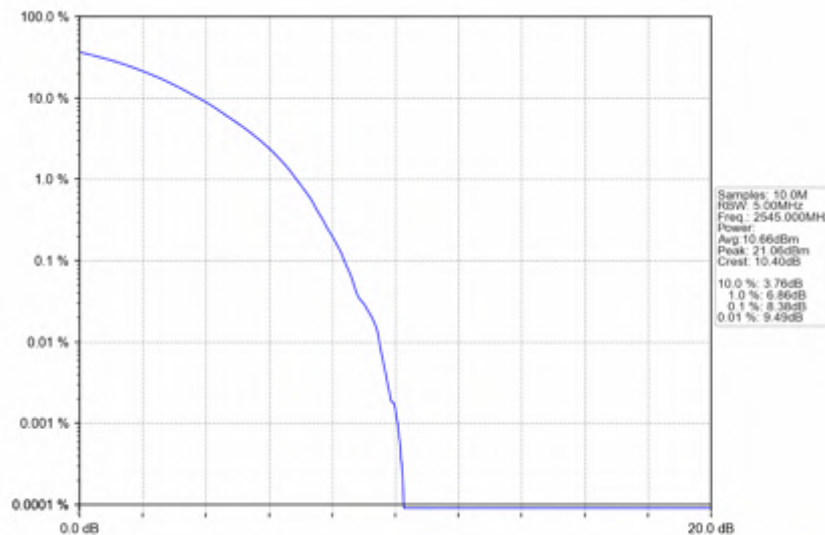
0086-51257370088 006-51257370011 www.sgs.com.cn

0086-51257350888 006-51257370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_50MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM_QPSK_2545MHz_Outer_Full

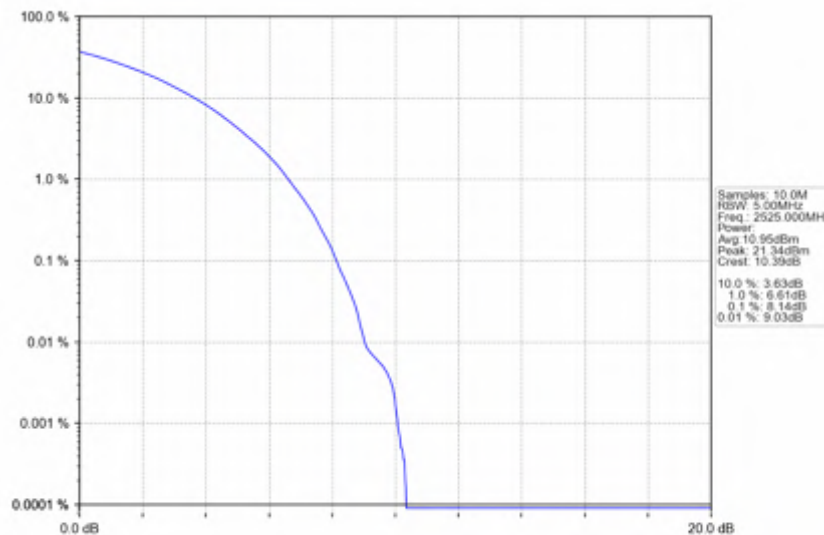


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

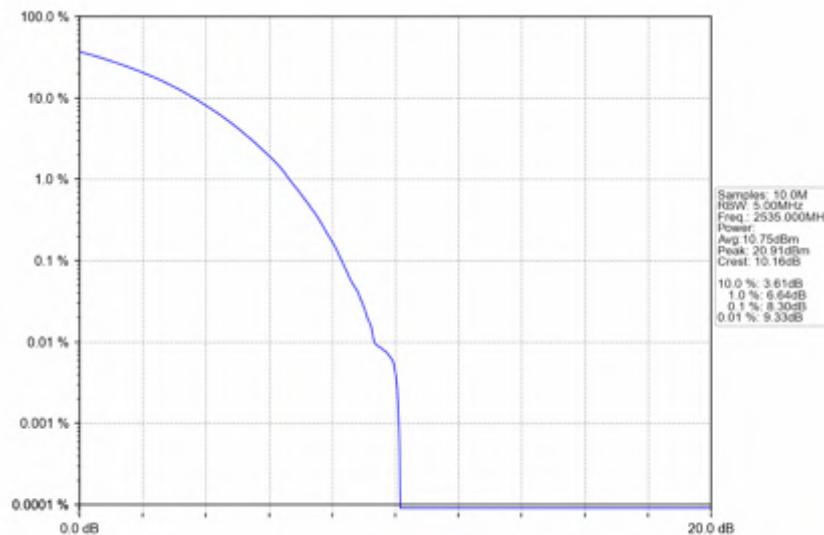
Attention: To Check the authenticity of testing certification report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Check@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300
 086-51257350888 086-51257370000 www.sgs.com.cn
 086-51257350888 086-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_50MHz_CP-OFDM_16_QAM_2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full



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-a-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 certification reports & certificates, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Check@sgs.com.

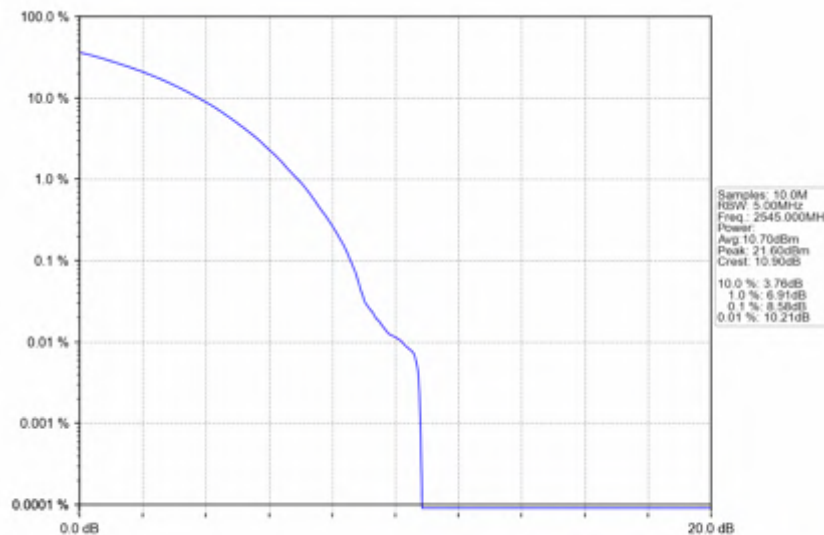
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

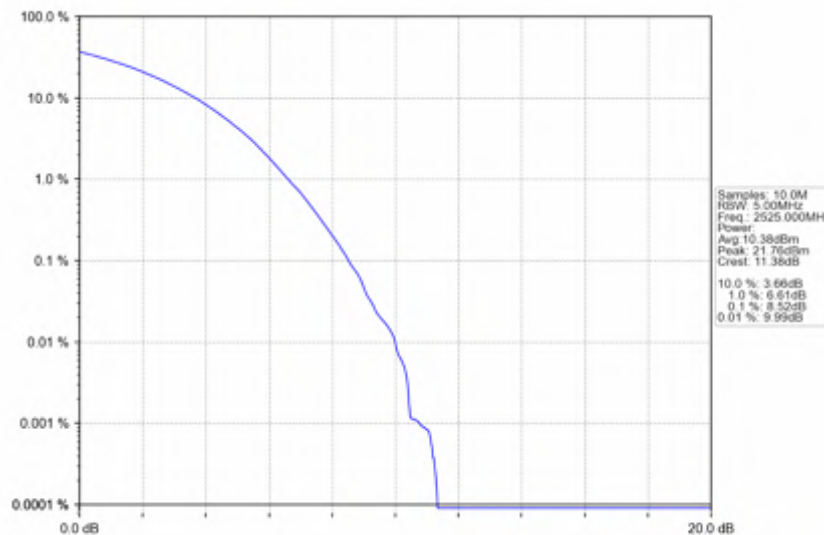
0086-51257350888 006-5125737000 www.sgs.com.cn

0086-51257350888 006-5125737000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM_2545MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2525MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Check@sgs.com.

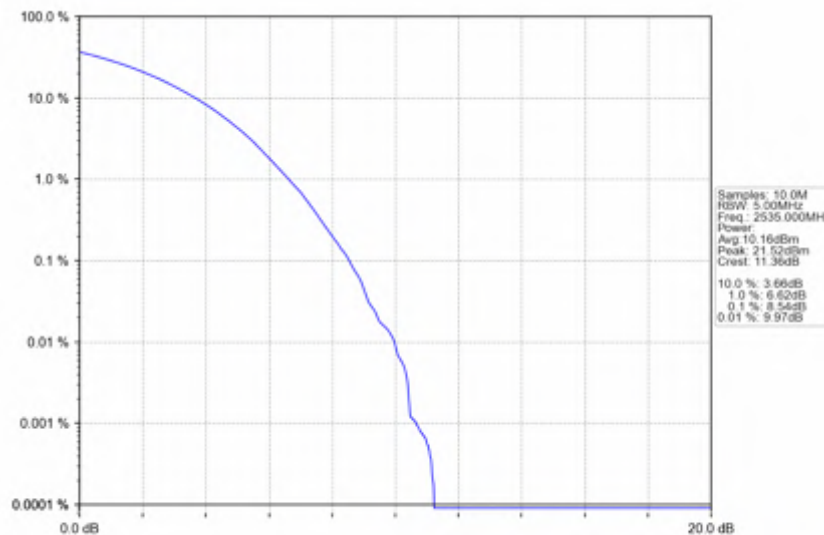
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

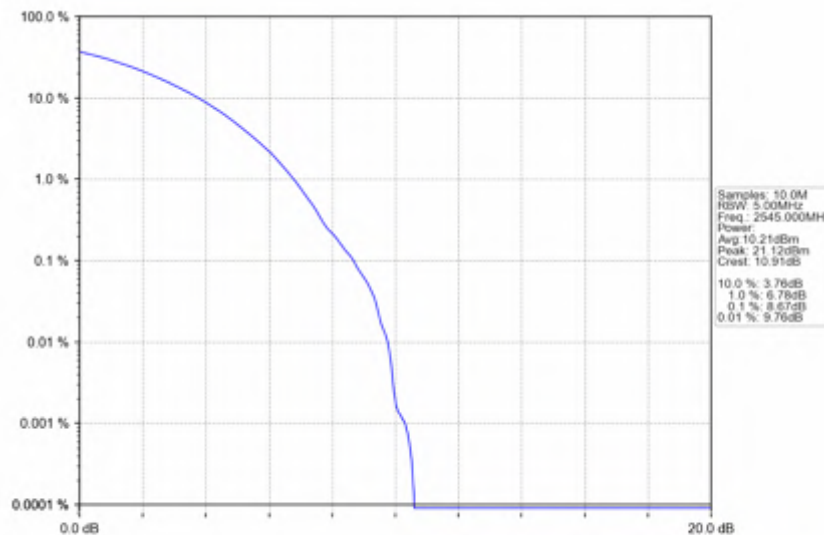
0086-51257350888 006-5125737000 www.sgs.com.cn

0086-51257350888 006-5125737000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2545MHz_Outer_Full



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-a-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 conclusion report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Check@sgs.com.

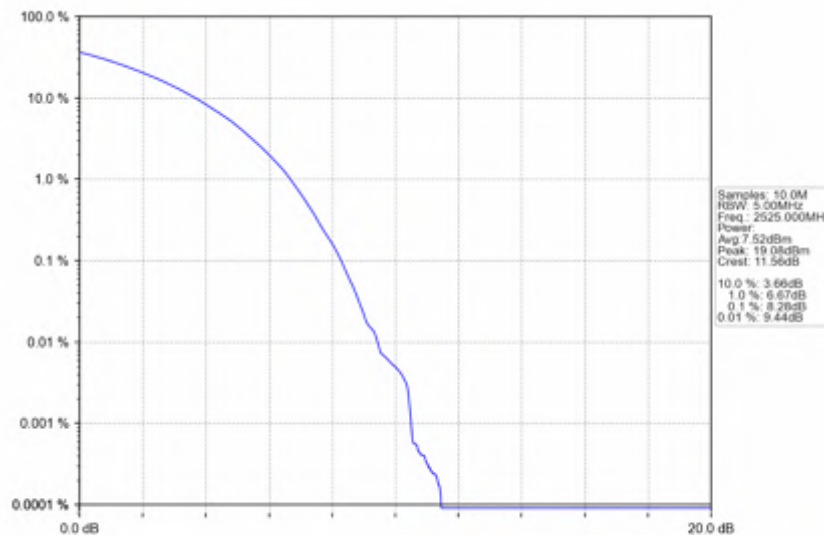
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

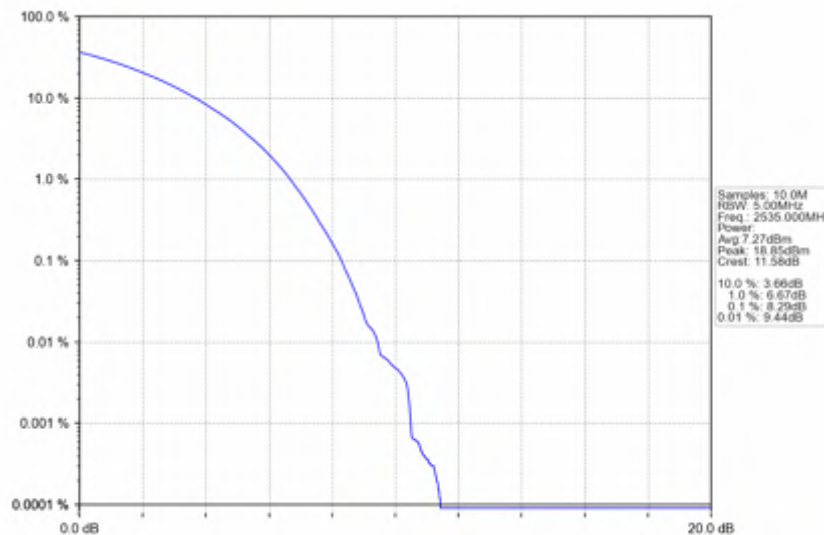
0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full

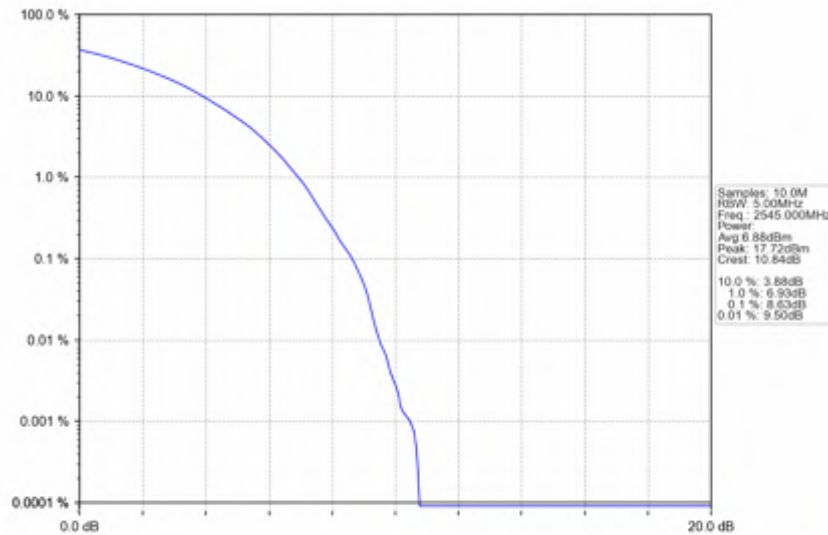


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

(86-512) 57350888 (86-512) 57370010 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_15kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_2545MHz_Outer_Full



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-a-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 certification reports & certificates, please connect us at telephone: (+86-512) 57370011 or email: CN-Online@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0086-512/57350888 0086-512/57370011 www.sgs.com.cn
 0086-512/57350888 0086-512/57370011 sgs.china@sgs.com

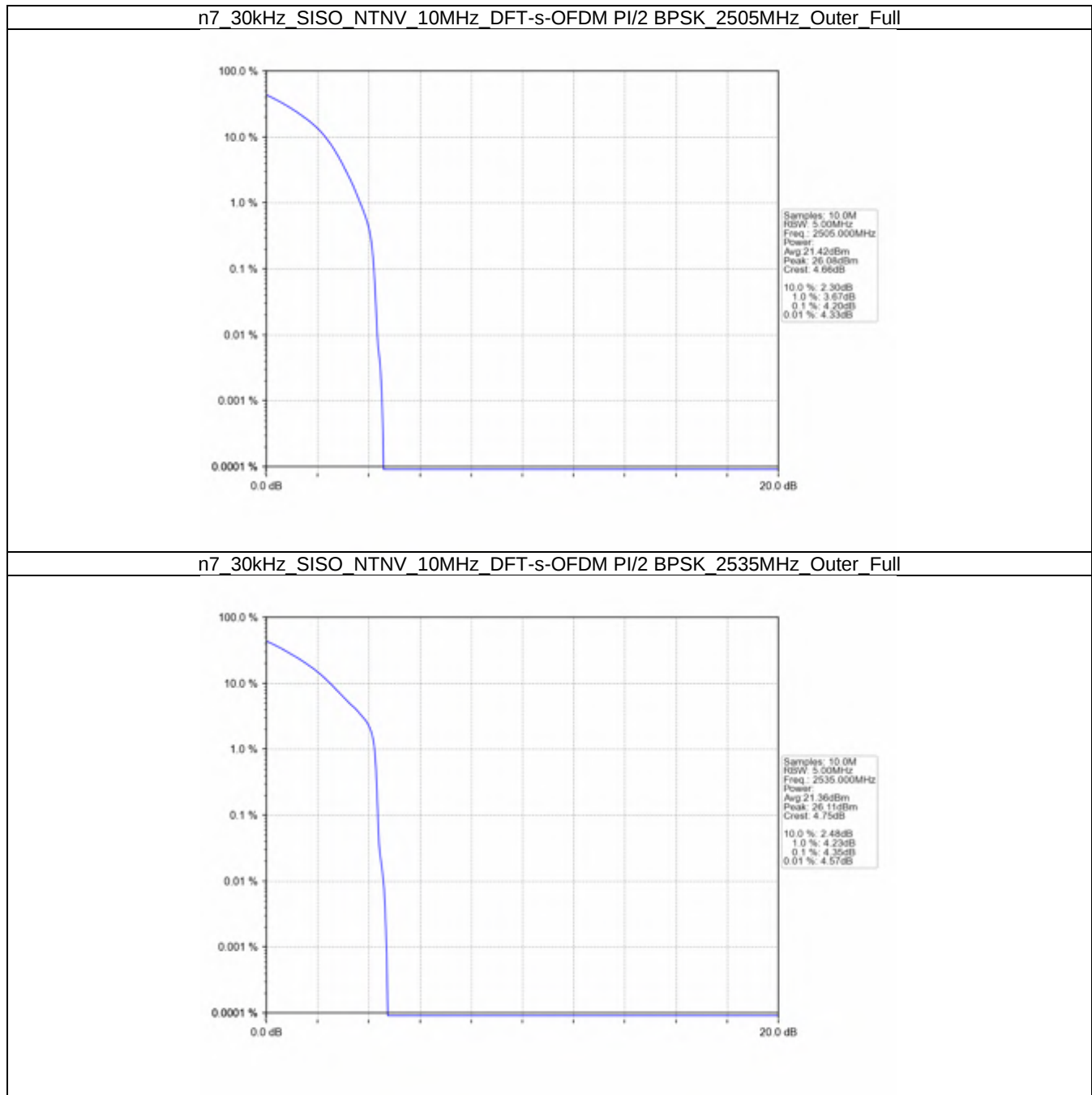
3.9 30k_SISO_10MHz_NTNV

3.9.1 Test Result

5G NR n7 SCS=30kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2505	Outer_Full	4.20	/	/	<=13	Pass
	2535	Outer_Full	4.35	/	/	<=13	Pass
	2565	Outer_Full	4.33	/	/	<=13	Pass
DFT-s-OFDM QPSK	2505	Outer_Full	5.24	/	/	<=13	Pass
	2535	Outer_Full	5.52	/	/	<=13	Pass
	2565	Outer_Full	5.22	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2505	Outer_Full	6.19	/	/	<=13	Pass
	2535	Outer_Full	6.28	/	/	<=13	Pass
	2565	Outer_Full	6.26	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2505	Outer_Full	6.63	/	/	<=13	Pass
	2535	Outer_Full	6.66	/	/	<=13	Pass
	2565	Outer_Full	6.70	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2505	Outer_Full	6.44	/	/	<=13	Pass
	2535	Outer_Full	6.59	/	/	<=13	Pass
	2565	Outer_Full	6.50	/	/	<=13	Pass
CP-OFDM QPSK	2505	Outer_Full	8.29	/	/	<=13	Pass
	2535	Outer_Full	8.30	/	/	<=13	Pass
	2565	Outer_Full	8.20	/	/	<=13	Pass
CP-OFDM 16 QAM	2505	Outer_Full	8.07	/	/	<=13	Pass
	2535	Outer_Full	8.17	/	/	<=13	Pass
	2565	Outer_Full	8.12	/	/	<=13	Pass
CP-OFDM 64 QAM	2505	Outer_Full	8.37	/	/	<=13	Pass
	2535	Outer_Full	8.40	/	/	<=13	Pass
	2565	Outer_Full	8.38	/	/	<=13	Pass
CP-OFDM 256 QAM	2505	Outer_Full	8.32	/	/	<=13	Pass
	2535	Outer_Full	8.27	/	/	<=13	Pass
	2565	Outer_Full	8.56	/	/	<=13	Pass



3.9.2 Test Graph

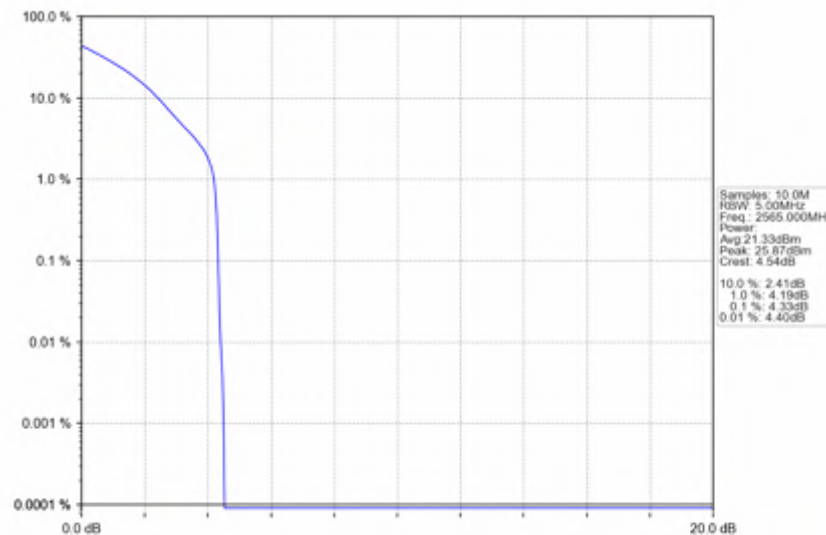


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

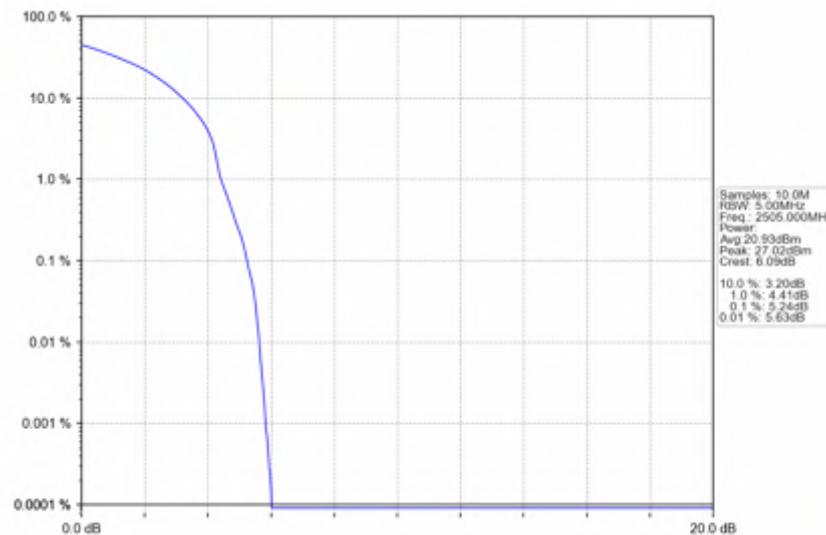
Attention: To check the authenticity of testing certification report & certificate, please connect us at CH.Official@sgs.com
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

086-512/57350888 086-512/57370910 www.sgs.com
086-512/57350883 086-512/57370911 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2565MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2505MHz_Outer_Full

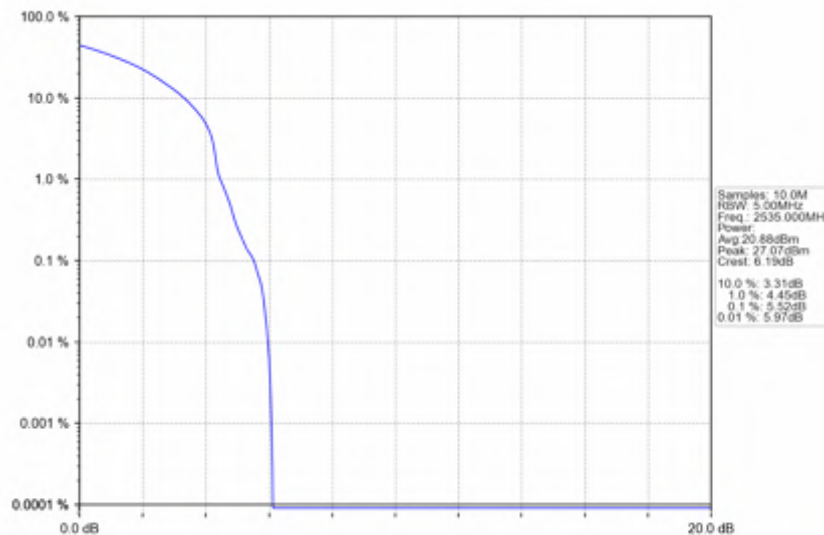


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report and certificates, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

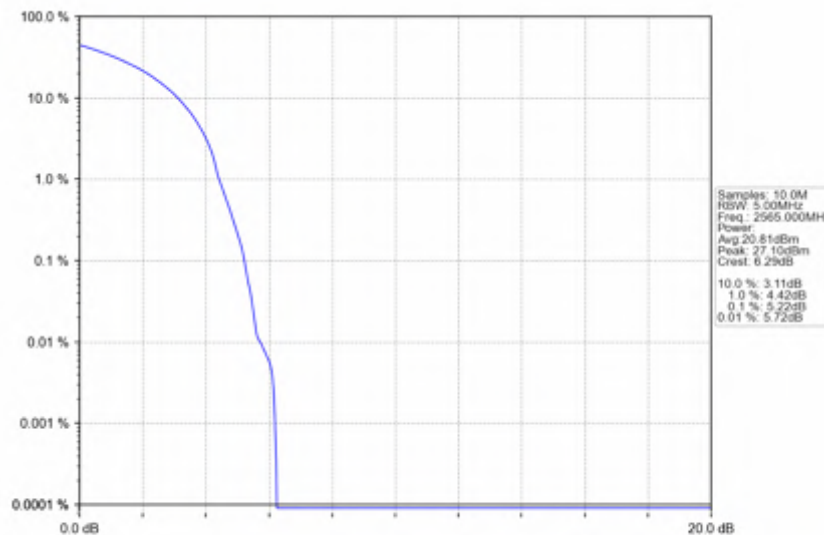
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_2565MHz_Outer_Full



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-a-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 report and certificates, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

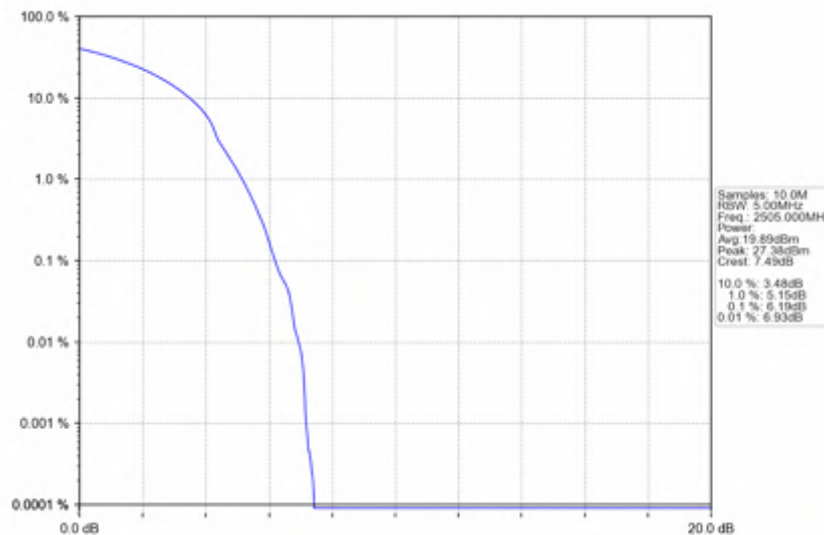
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留學生创业园伟业路10号 邮编 215300

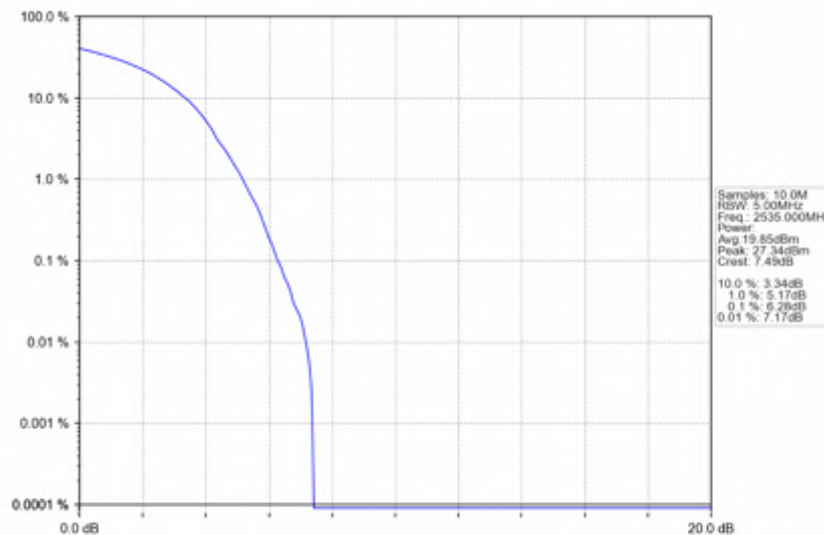
(86-512) 57350888 (86-512) 57370010 www.sgs.com.cn

(86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2505MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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-a-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 certification reports & certificates, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

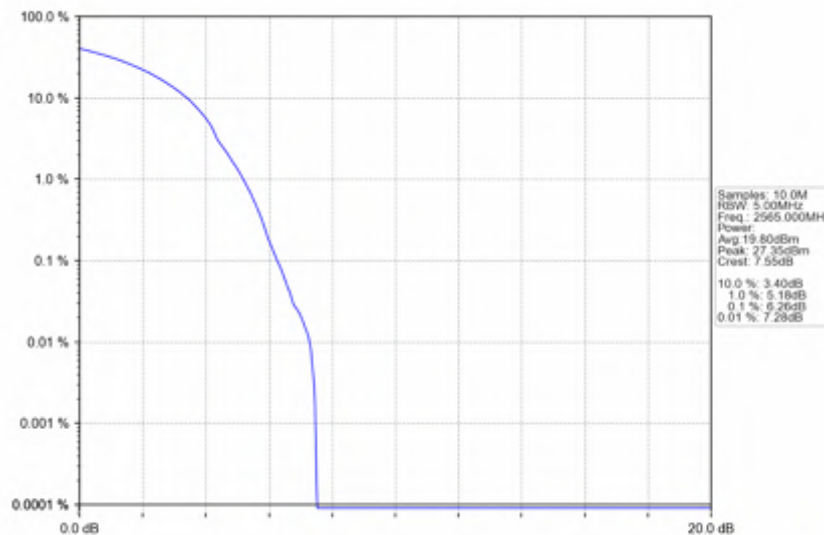
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

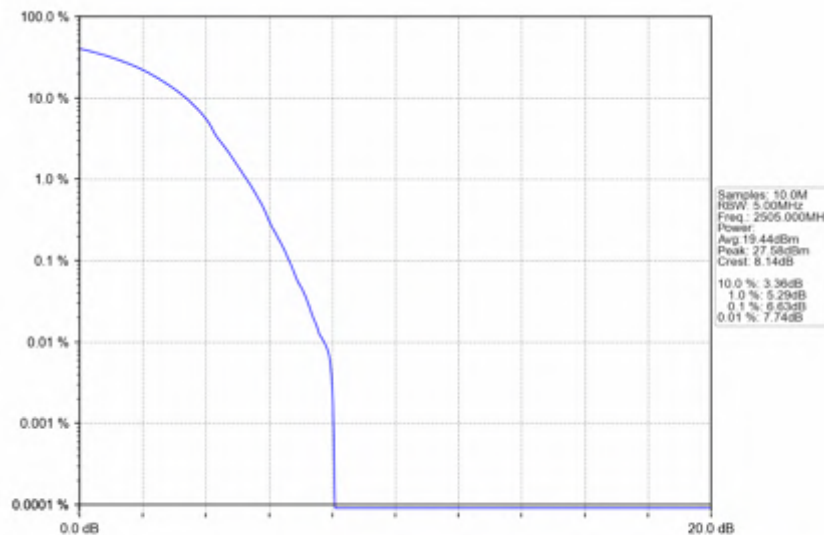
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2565MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2505MHz_Outer_Full

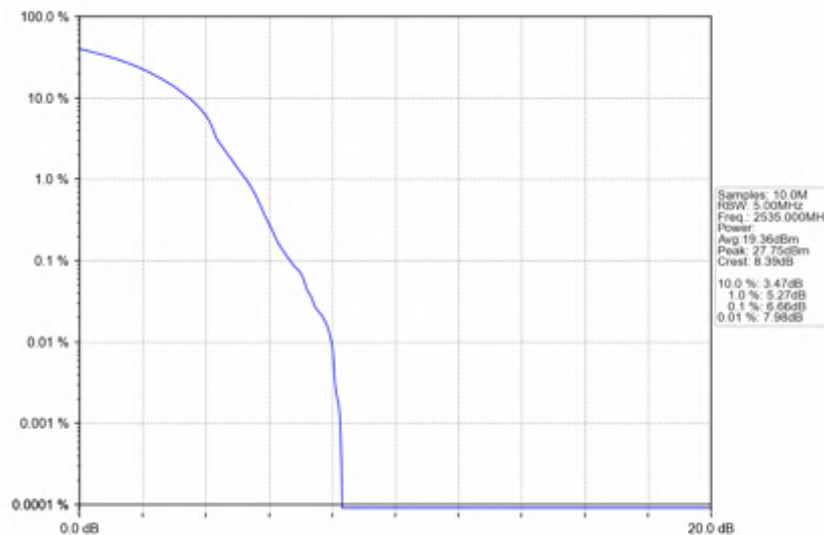


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

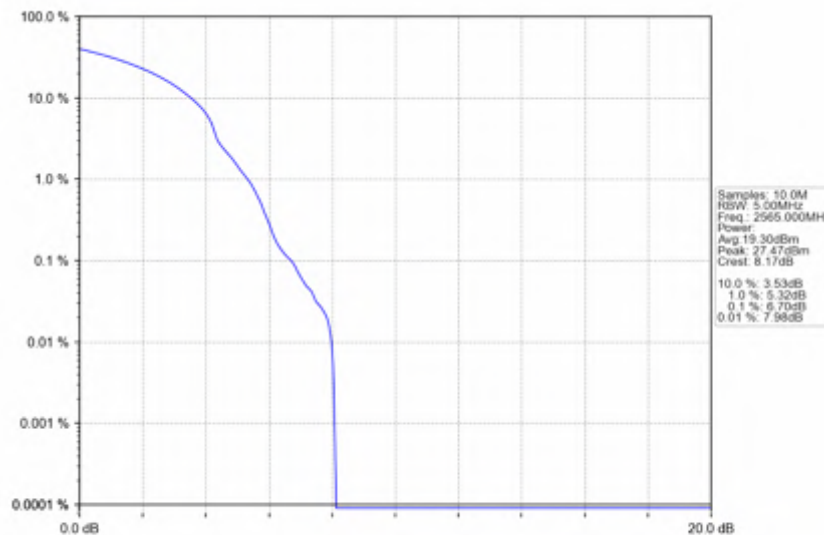
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2565MHz_Outer_Full

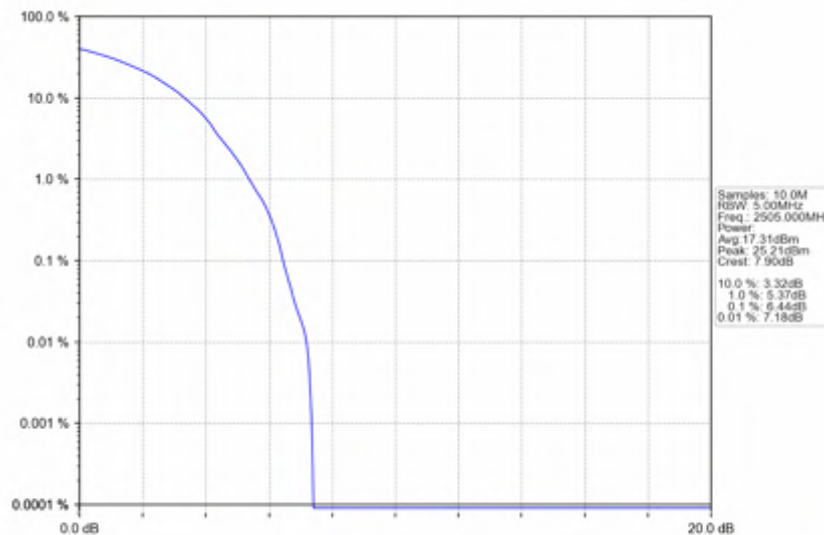


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

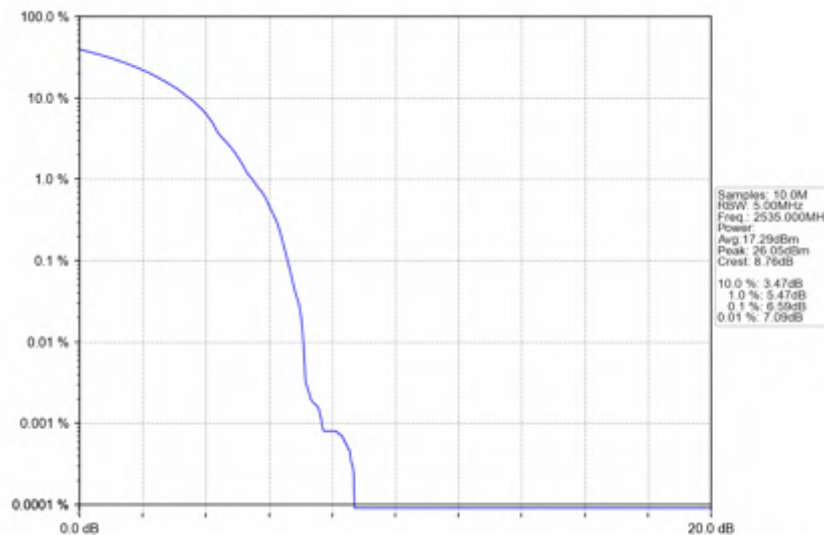
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2505MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



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-a-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 report & certificate, please connect us at sgs@sgs.com or CH.Official@sgs.com.

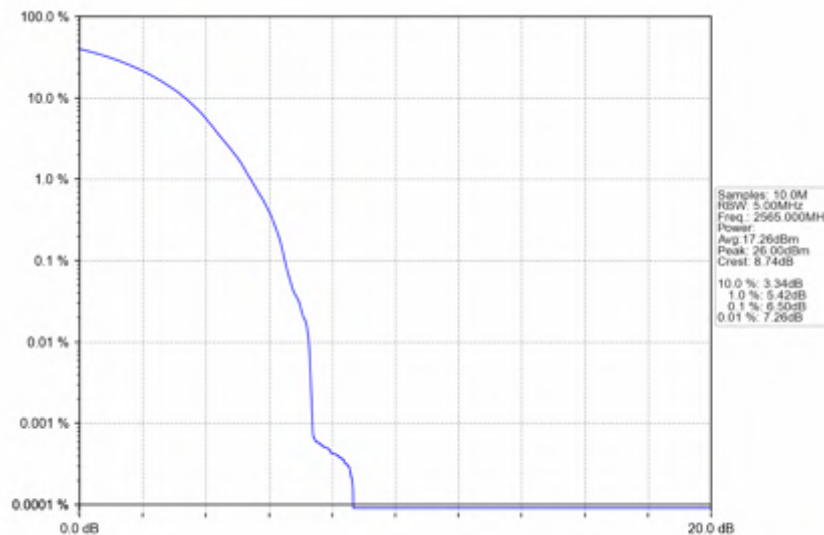
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

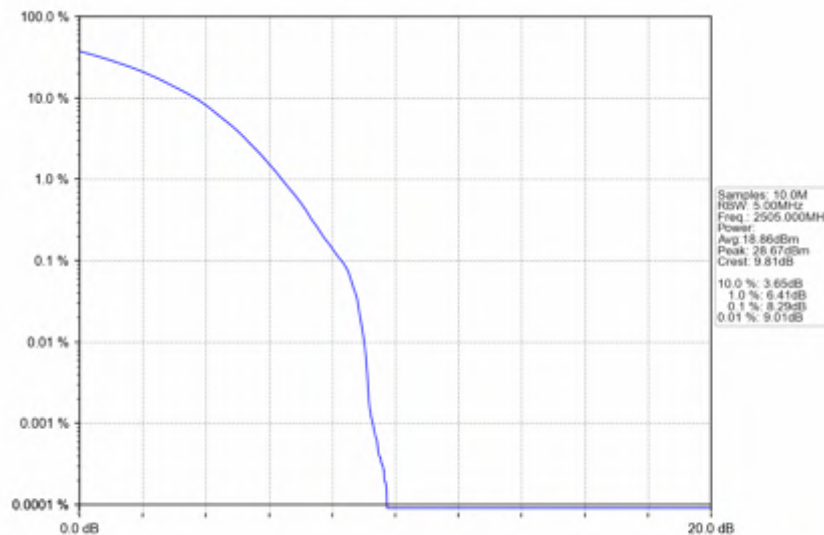
0512-57350888 0512-57370910 www.sgs.com.cn

0512-57350883 0512-57370911 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256QAM_2565MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_2505MHz_Outer_Full



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-a-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 certification reports & certificates, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Online@sgs.com.

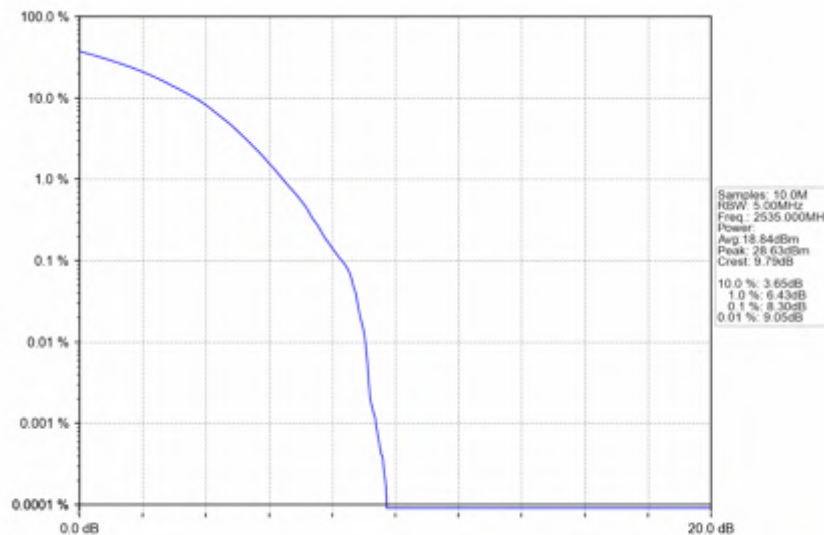
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

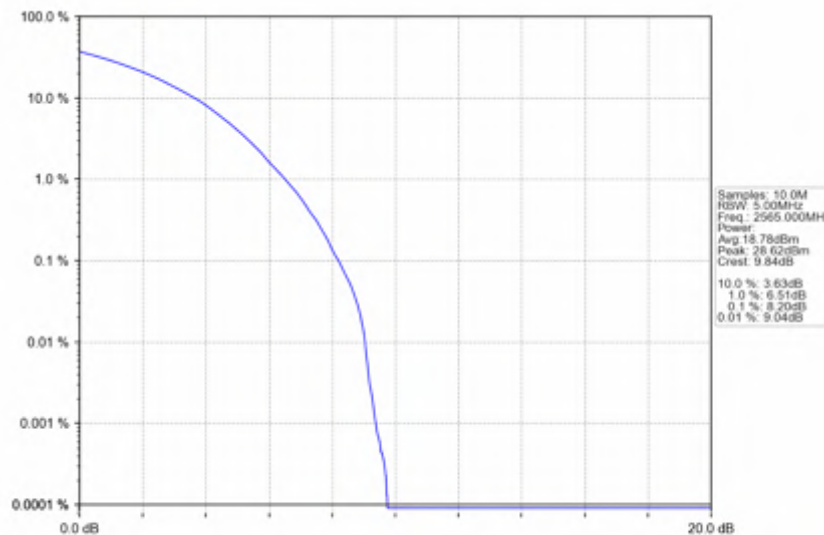
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_2565MHz_Outer_Full

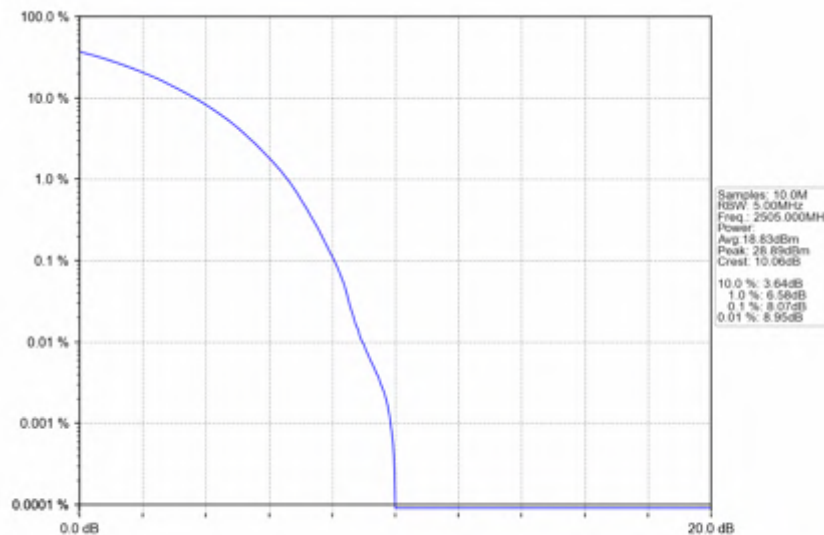


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

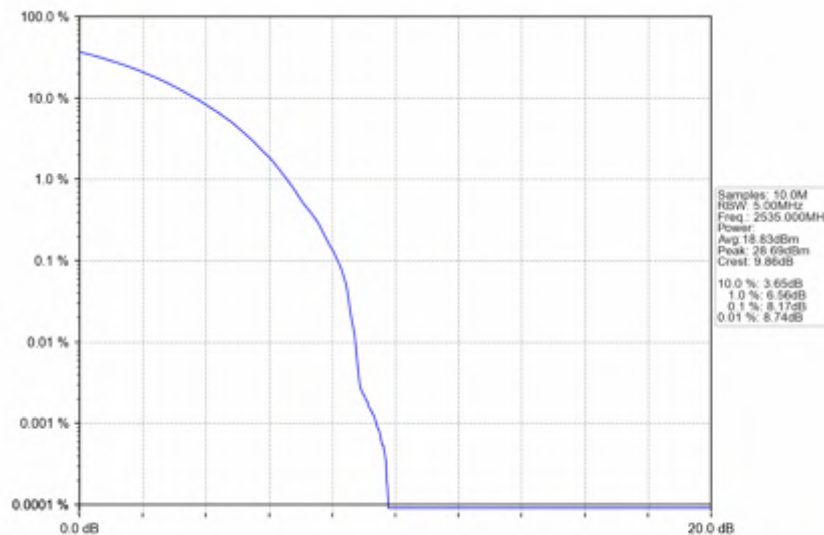
Attention: To check the authenticity of testing certification reports & certificates, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Online@sgs.com.

No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 (86-512)57350888 (86-512)57370011 www.sgs.com.cn
 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300 (86-512)57350888 (86-512)57370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2505MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2535MHz_Outer_Full

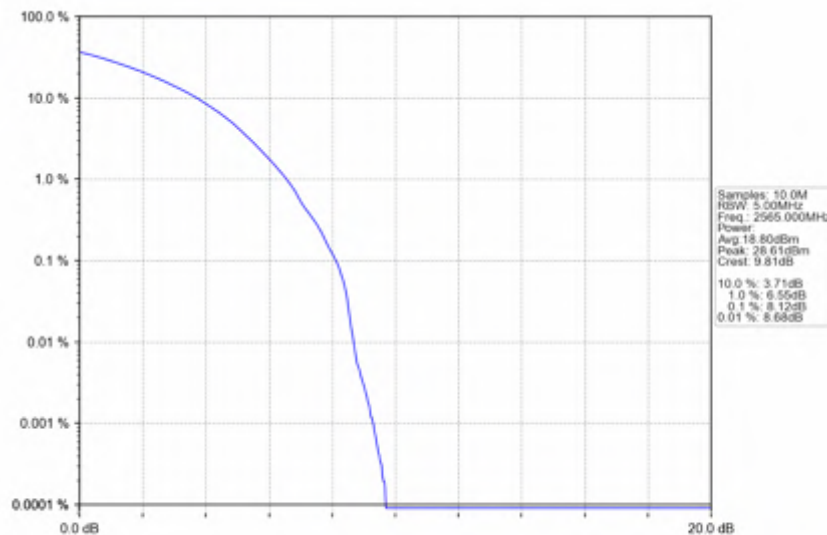


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Check@sgs.com.

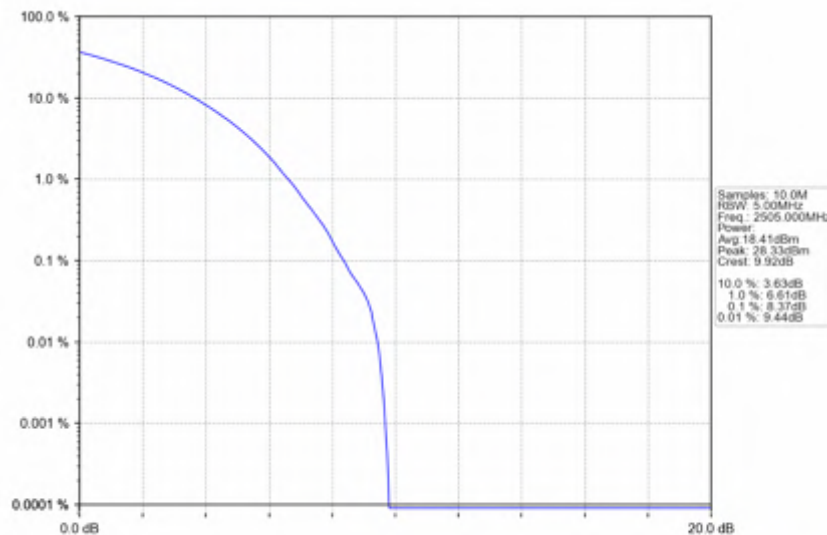
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350888 (86-512) 57370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2565MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2505MHz_Outer_Full



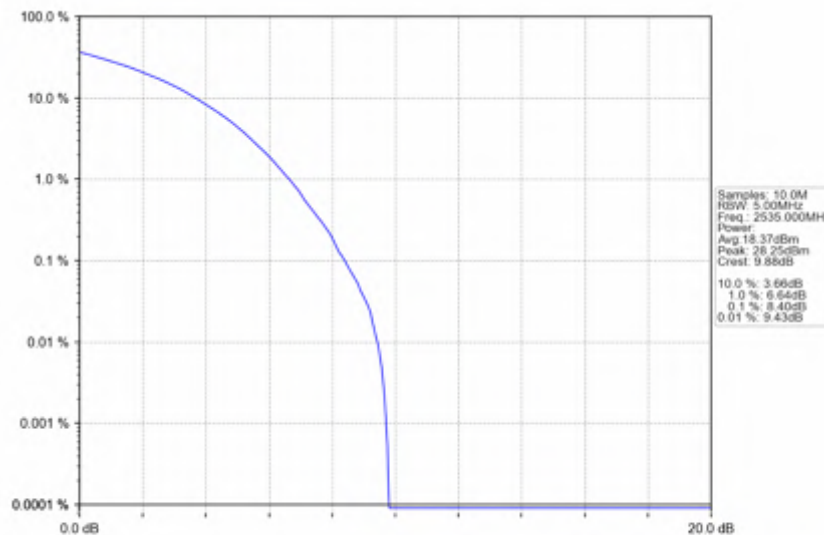
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57350000 or email: CN-Check@sgs.com.

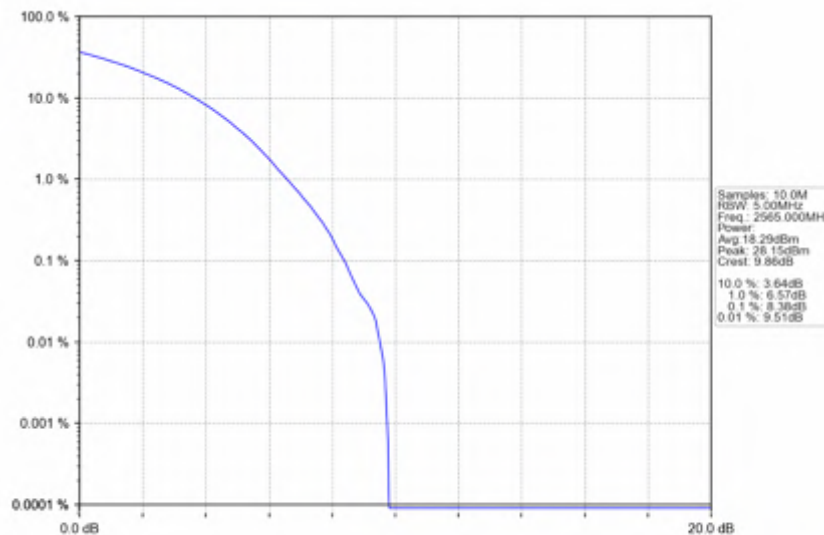
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

086-51257350000 086-51257370000 www.sgs.com.cn
086-51257350000 086-51257370000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2565MHz_Outer_Full



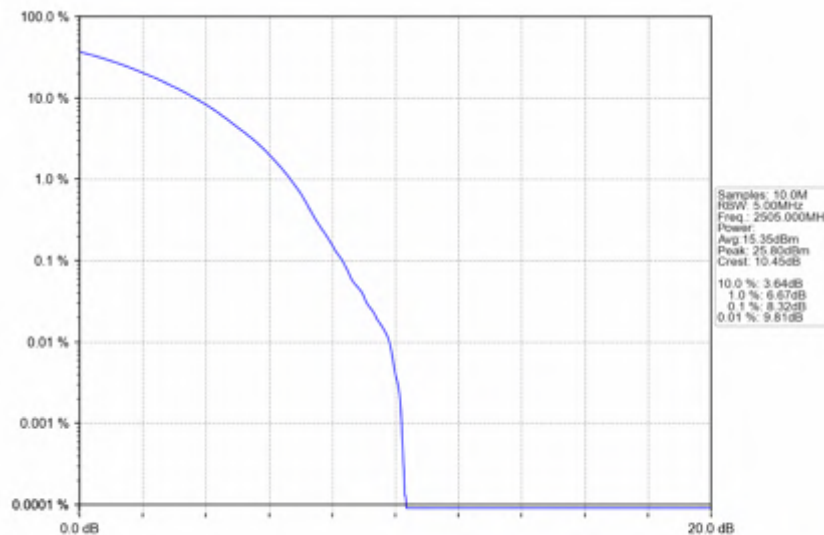
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Online@sgs.com.

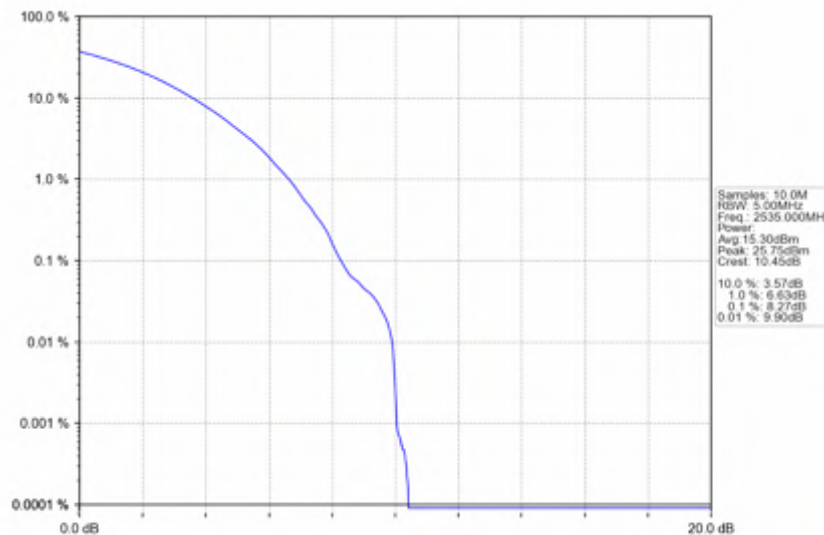
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

086-51257350888 086-51257370000 www.sgs.com.cn
 086-51257350888 086-51257370000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2505MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full

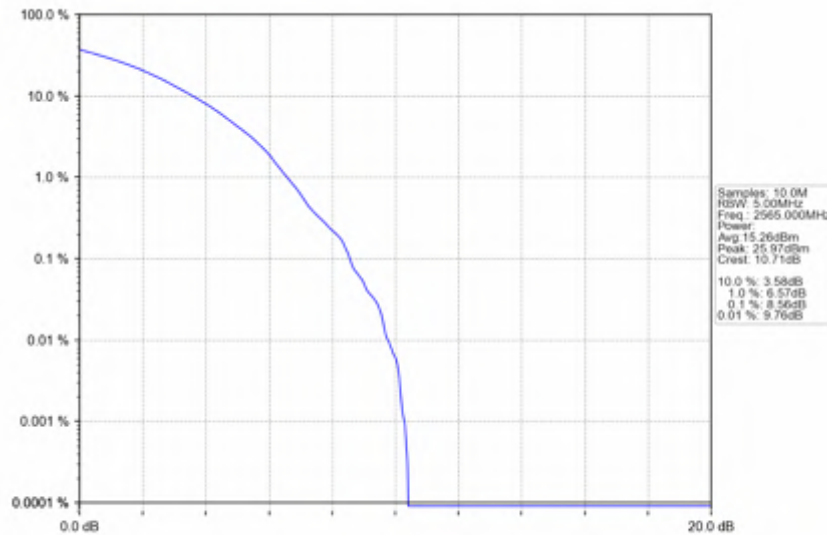


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2565MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at telephone: (+86-512) 57370011 or email: CN-Online@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

0086-512/57350888 0086-512/57370011 www.sgs.com.cn
 0086-512/57350888 0086-512/57370011 sgs.china@sgs.com

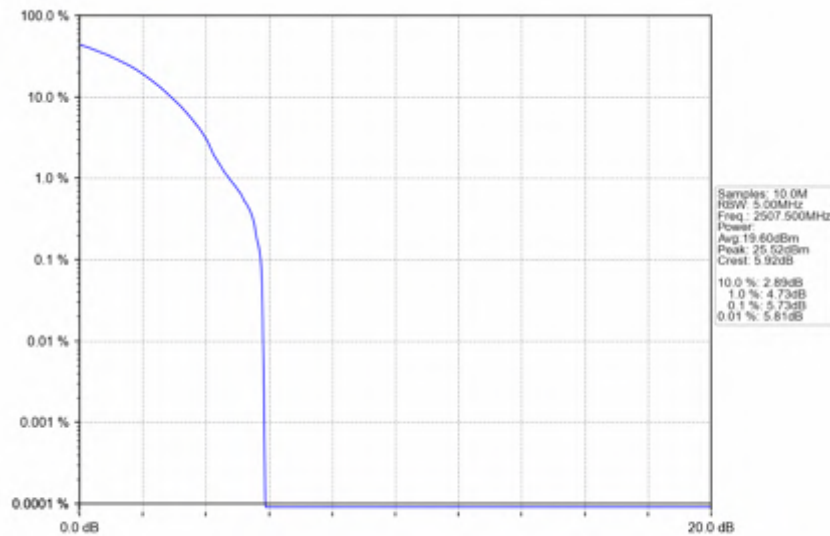
3.10 30k_SISO_15MHz_NTNV

3.10.1 Test Result

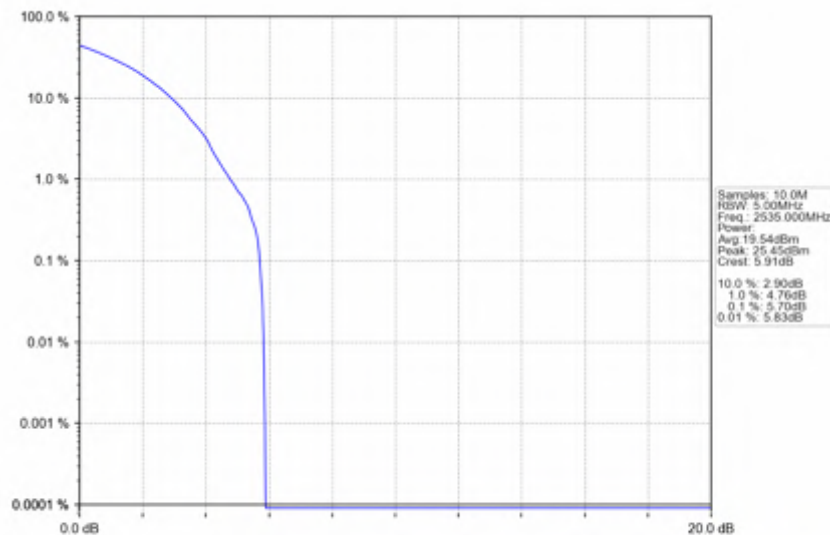
5G NR n7 SCS=30kHz SISO 15MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2507.5	Outer_Full	5.73	/	/	<=13	Pass
	2535	Outer_Full	5.70	/	/	<=13	Pass
	2562.5	Outer_Full	5.69	/	/	<=13	Pass
DFT-s-OFDM QPSK	2507.5	Outer_Full	6.14	/	/	<=13	Pass
	2535	Outer_Full	6.12	/	/	<=13	Pass
	2562.5	Outer_Full	6.13	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2507.5	Outer_Full	6.89	/	/	<=13	Pass
	2535	Outer_Full	6.87	/	/	<=13	Pass
	2562.5	Outer_Full	6.81	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2507.5	Outer_Full	6.92	/	/	<=13	Pass
	2535	Outer_Full	7.10	/	/	<=13	Pass
	2562.5	Outer_Full	6.91	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2507.5	Outer_Full	7.16	/	/	<=13	Pass
	2535	Outer_Full	7.17	/	/	<=13	Pass
	2562.5	Outer_Full	7.22	/	/	<=13	Pass
CP-OFDM QPSK	2507.5	Outer_Full	8.34	/	/	<=13	Pass
	2535	Outer_Full	8.25	/	/	<=13	Pass
	2562.5	Outer_Full	8.25	/	/	<=13	Pass
CP-OFDM 16 QAM	2507.5	Outer_Full	7.94	/	/	<=13	Pass
	2535	Outer_Full	8.05	/	/	<=13	Pass
	2562.5	Outer_Full	7.93	/	/	<=13	Pass
CP-OFDM 64 QAM	2507.5	Outer_Full	8.74	/	/	<=13	Pass
	2535	Outer_Full	8.37	/	/	<=13	Pass
	2562.5	Outer_Full	8.36	/	/	<=13	Pass
CP-OFDM 256 QAM	2507.5	Outer_Full	8.22	/	/	<=13	Pass
	2535	Outer_Full	8.29	/	/	<=13	Pass
	2562.5	Outer_Full	8.40	/	/	<=13	Pass

3.10.2 Test Graph

n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_2507.5MHz_Outer_Full



n7 30kHz SISO NTN_V 15MHz DFT-s-OFDM PI/2 BPSK 2535MHz Outer Full

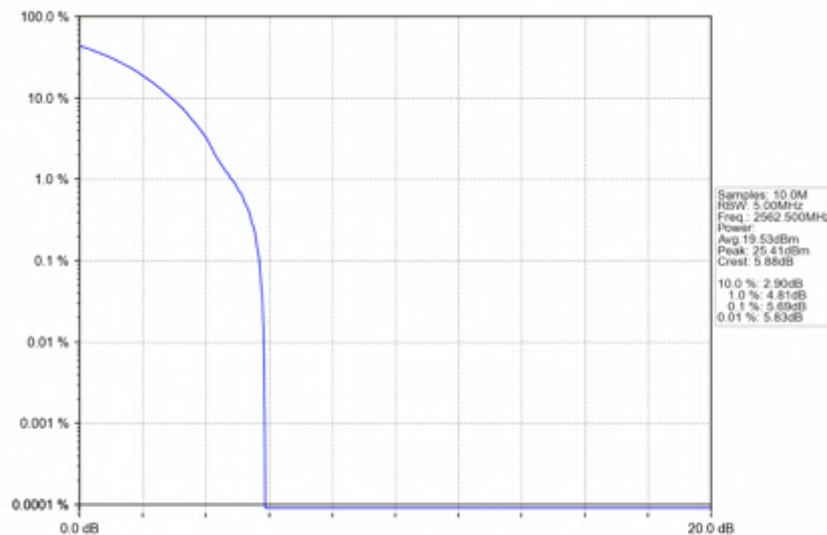


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed and available on request or accessible at <http://www.etsi.com/Products/ETSI%20Products%20and%20Conditions> and, for selected forms, printed subject to Terms and Conditions for Electronic Documents at <http://www.etsi.com/terms-and-conditions/Terms-a-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction terms defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of the Company's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a trial from their responsibility to the court. The Company's responsibility is limited to the occurrence of a technical error in the report, 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 fast report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. For more information on the use of this document, please contact the Company at info@etsi.com or <tel:+352437342000>.

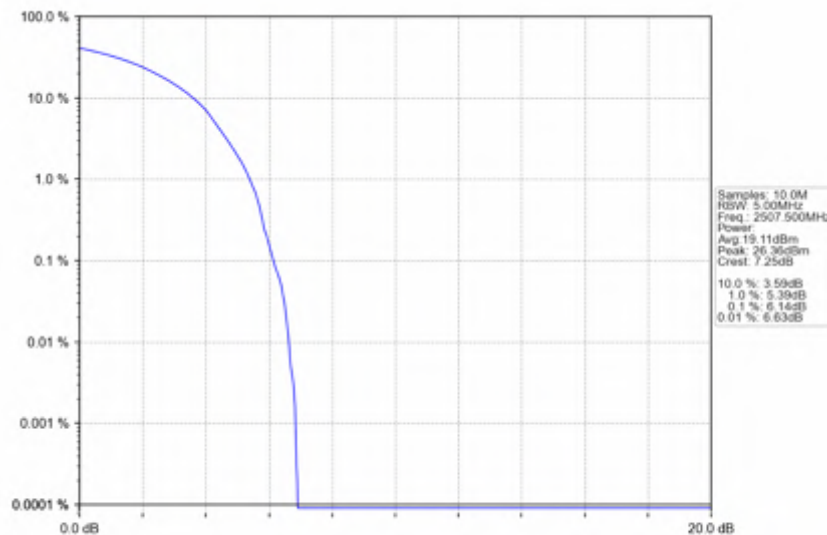
中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

086-5125735688 086-5125737000 www.sgsigroup.com.cn
086-5125735688 086-5125737000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2562.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2507.5MHz_Outer_Full



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overall, 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-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011 or email: CN-Online@sgs.com.

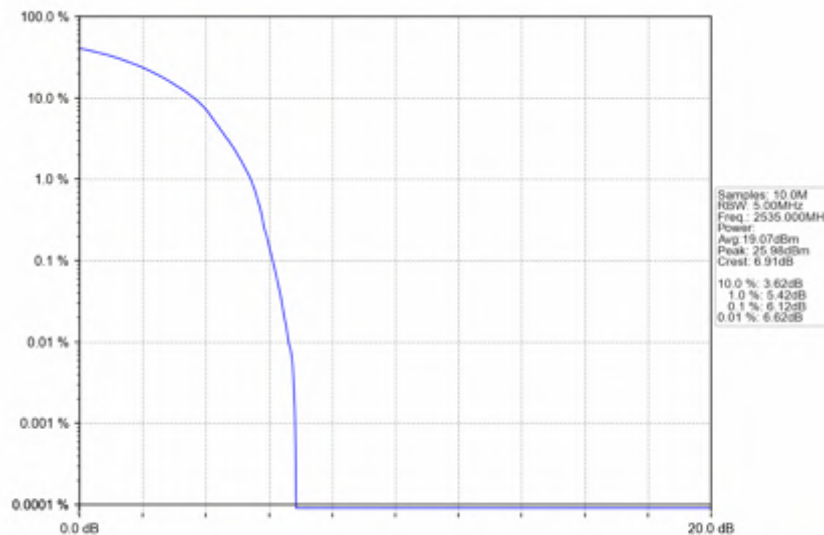
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路18号 邮编 215300

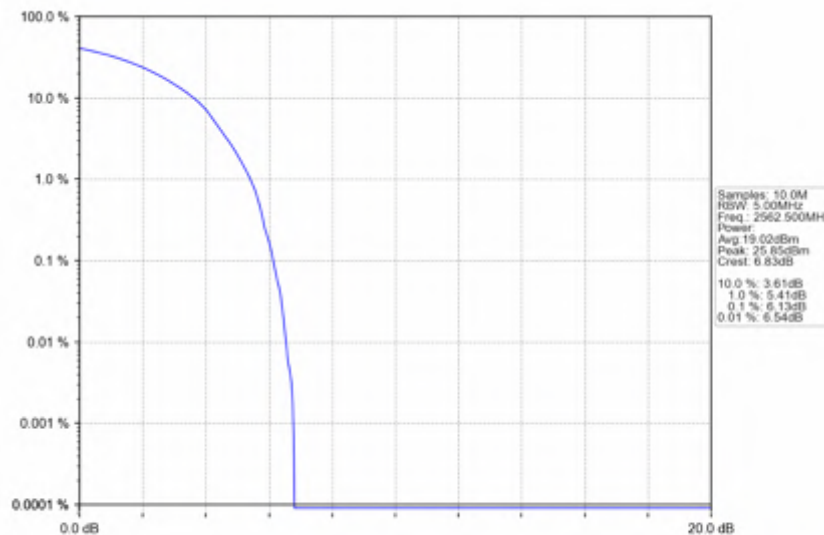
0086-51257350888 006-51257370011 www.sgs.com.cn

0086-51257350888 006-51257370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_2562.5MHz_Outer_Full



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-a-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 report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

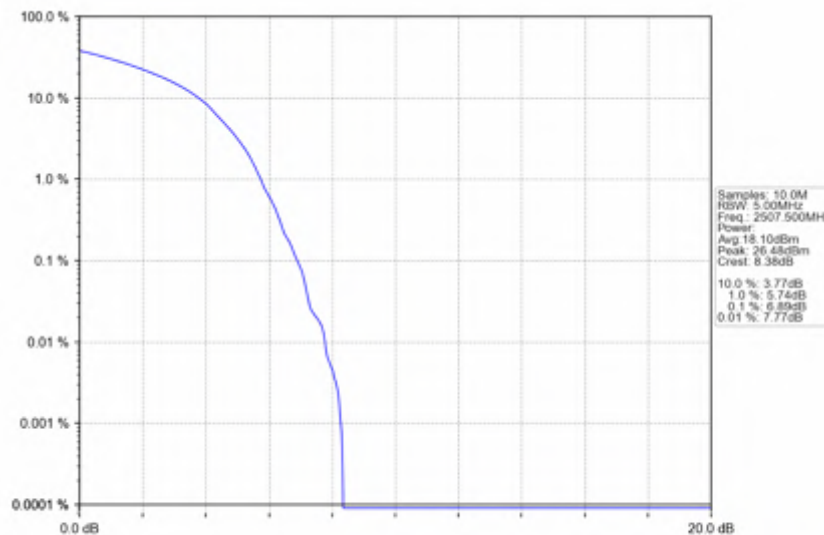
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

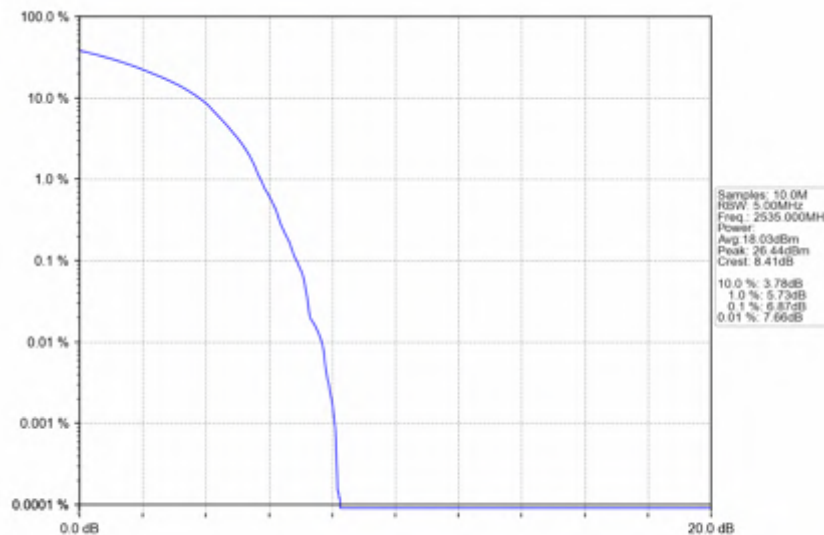
(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn

(86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2507.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57350000 or email: CN-OnlineCheck@sgs.com.

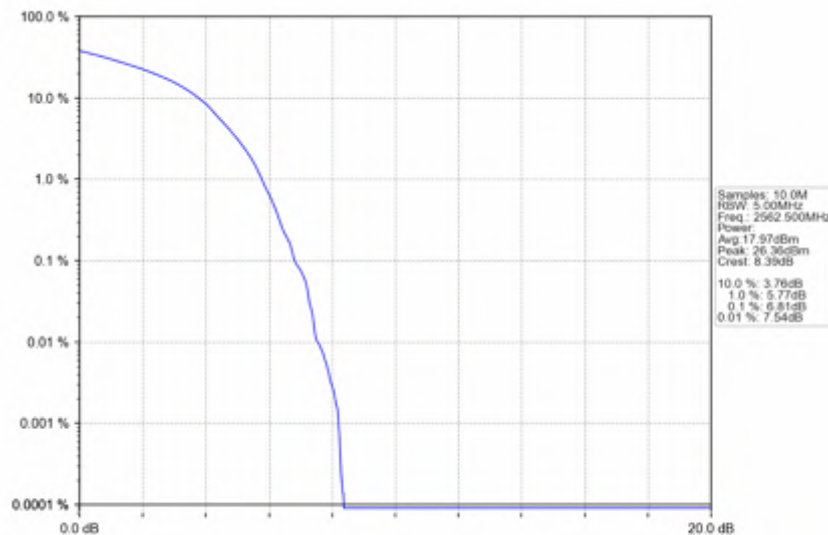
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路18号 邮编 215300

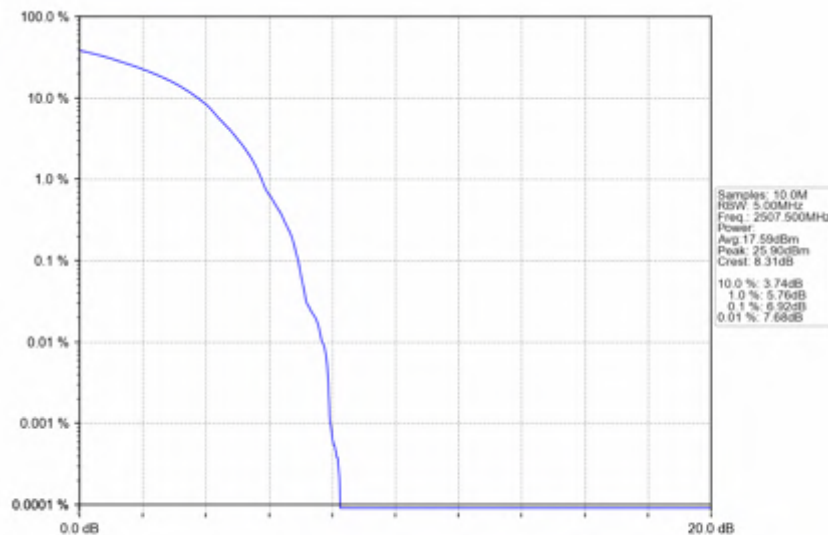
086-51257350000 086-51257370000 www.sgs.com.cn

086-51257350000 086-51257370000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2562.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2507.5MHz_Outer_Full



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-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

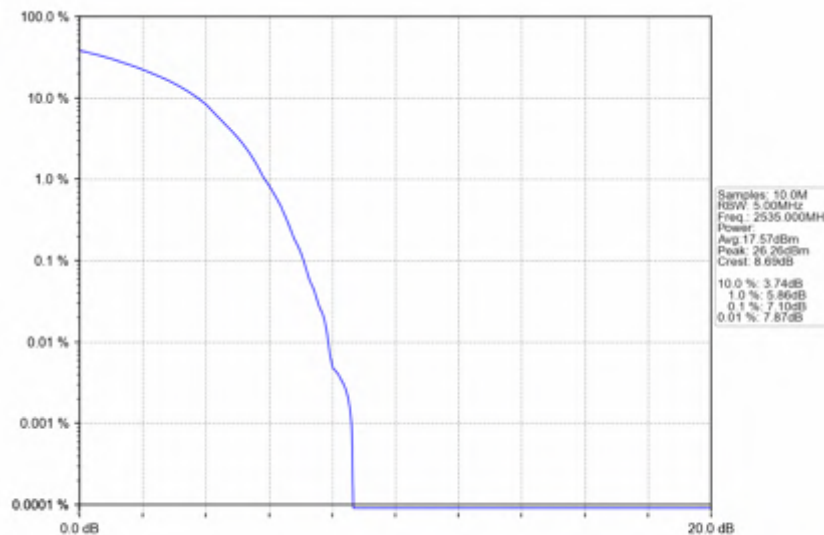
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路18号 邮编 215300

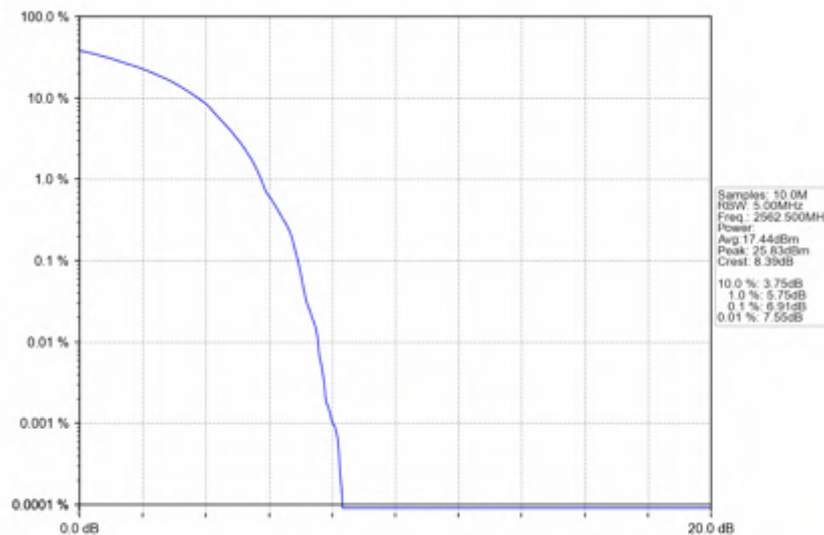
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2562.5MHz_Outer_Full

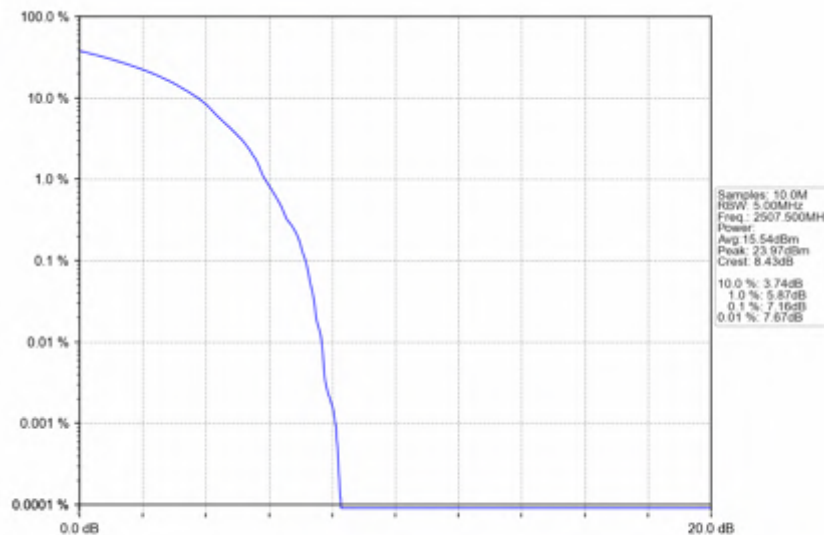


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report and certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Online@sgs.com.

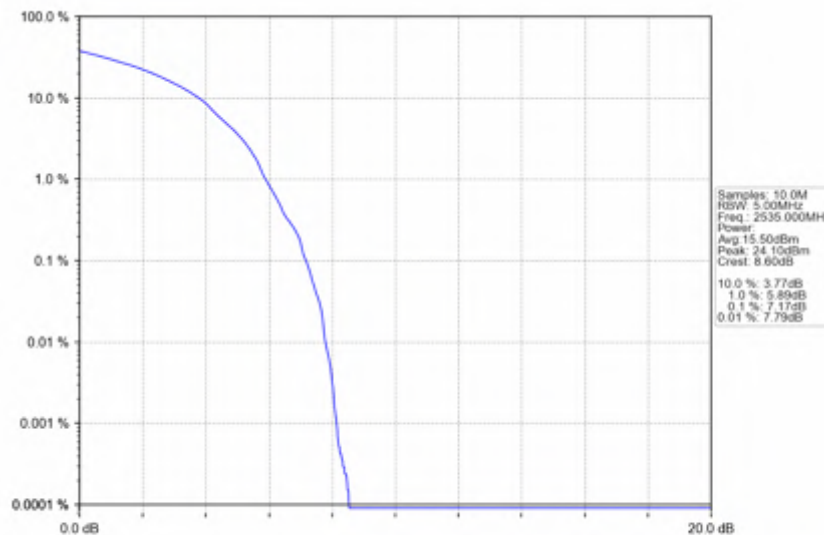
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2507.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overall, 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-a-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 herein 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 report and certificates, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Online@sgs.com.

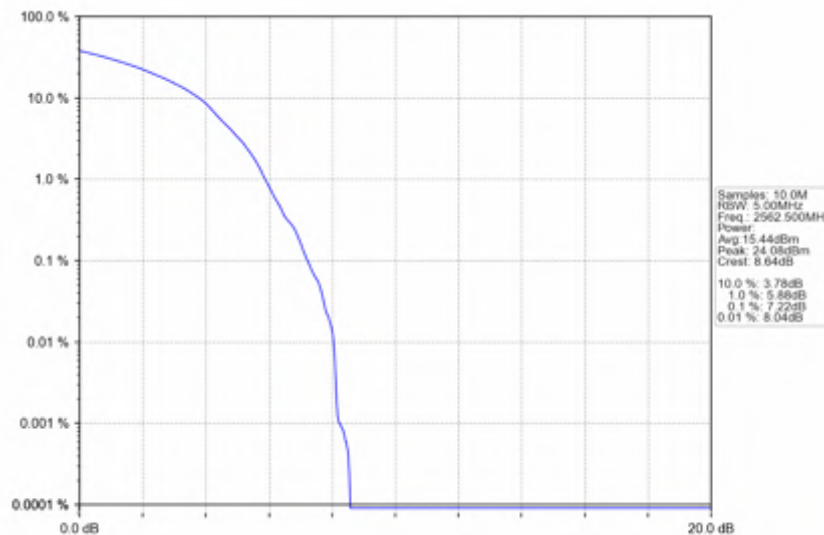
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

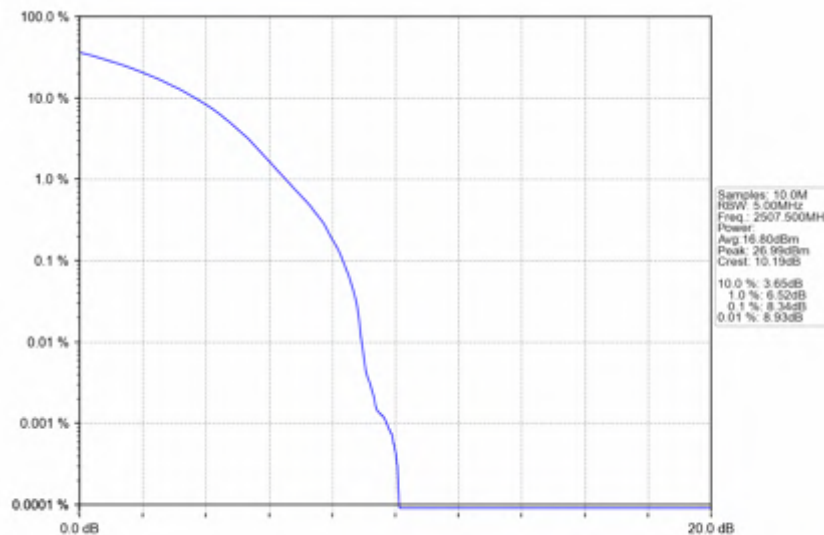
0086-51257370000 0086-51257370010 www.sgs.com.cn

0086-51257350000 0086-51257370010 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2562.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_2507.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com or CN-Check@sgs.com.

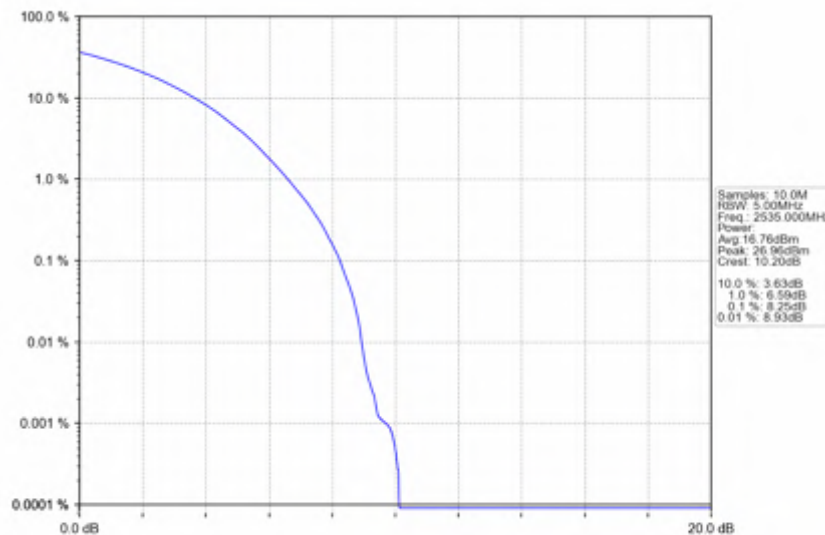
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

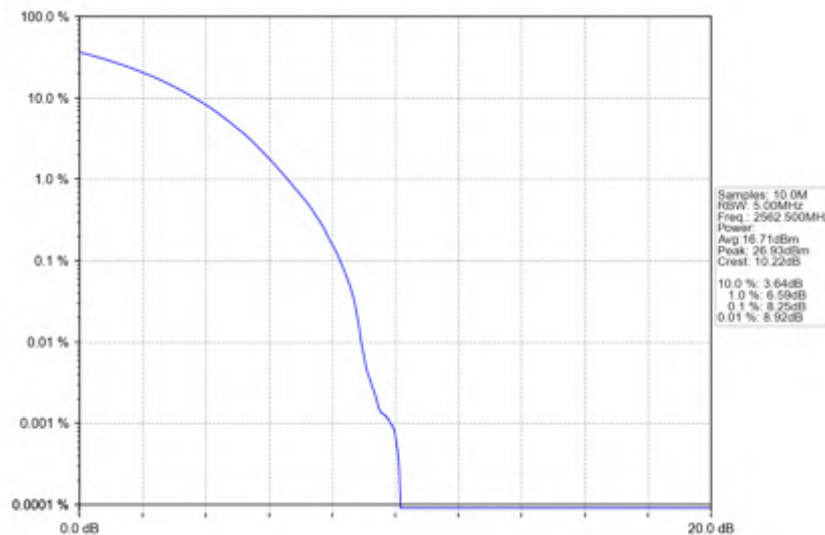
0512-57350888 0512-57370910 www.sgs.com.cn

0512-57350883 0512-57370911 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2562.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011 or email: CN-Check@sgs.com.

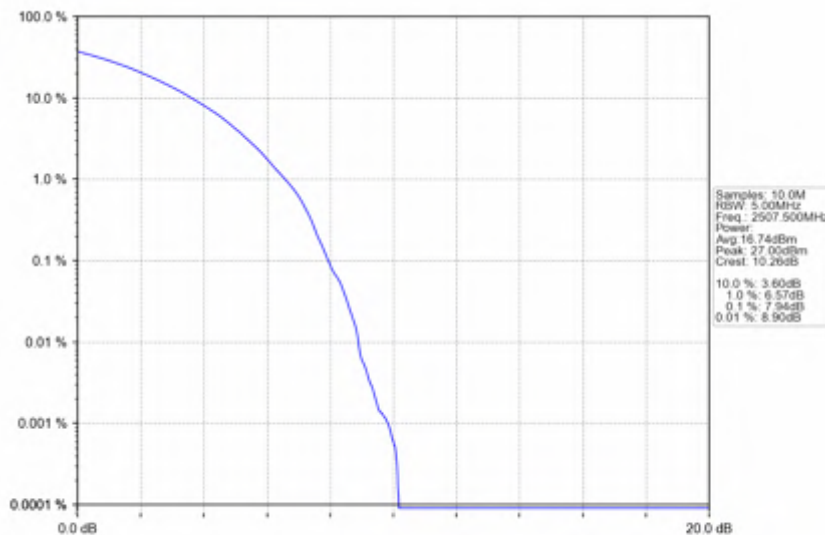
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

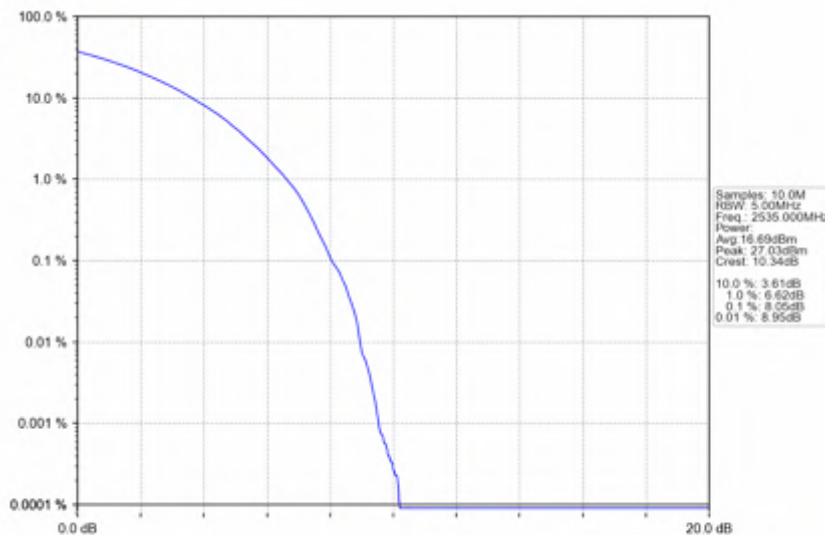
0086-51257350888 006-51257370011 www.sgs.com.cn

0086-51257350888 006-51257370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2507.5MHz_Outer_Full



n7 30kHz SISO NTN 15MHz CP-OFDM 16 QAM 2535MHz Outer Full

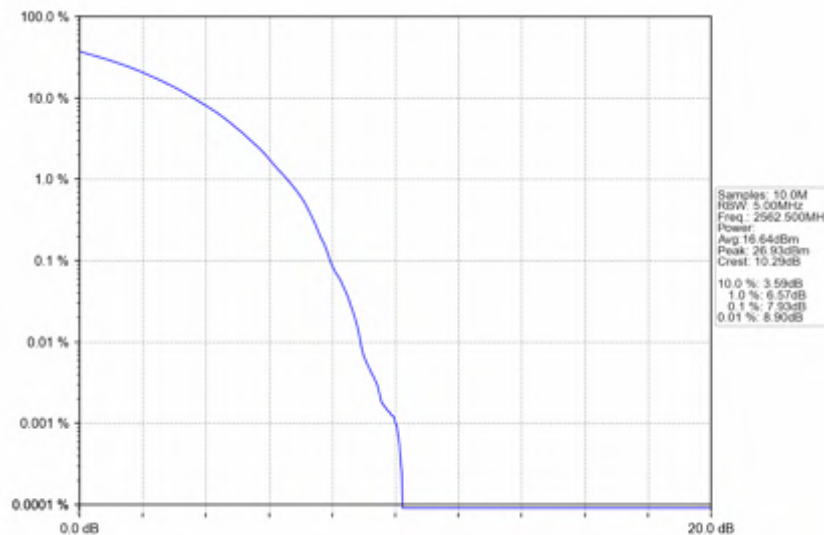


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed hereon, available on request or accessible at <http://www.irs.gov/efile/terms-and-conditions.asp> and, for electronic filing of documents, subject to Terms and Conditions for Electronic Documents at <http://www.irs.gov/efile/terms-and-conditions/terms-and-conditions.asp>. 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 the Company's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from their own responsibilities. The Company's intervention is limited to the matters specified in its instructions and it does not accept liability, 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 samples shown in this fast report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

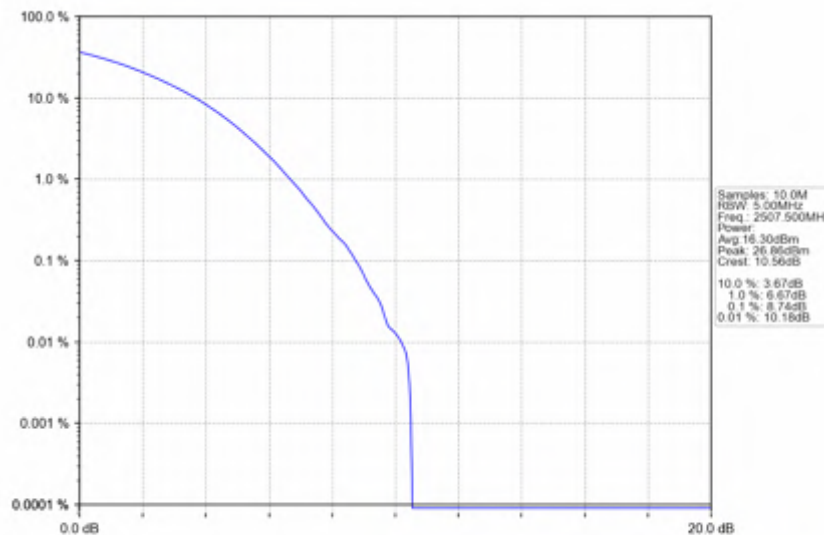
中国·江苏·昆山市留學生创业园伟业路10号 邮编 215300

086-5125735688 086-5125737000 www.sgsigroup.com.cn
086-5125735688 086-5125737000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_16 QAM_2562.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_64 QAM_2507.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Online@sgs.com.

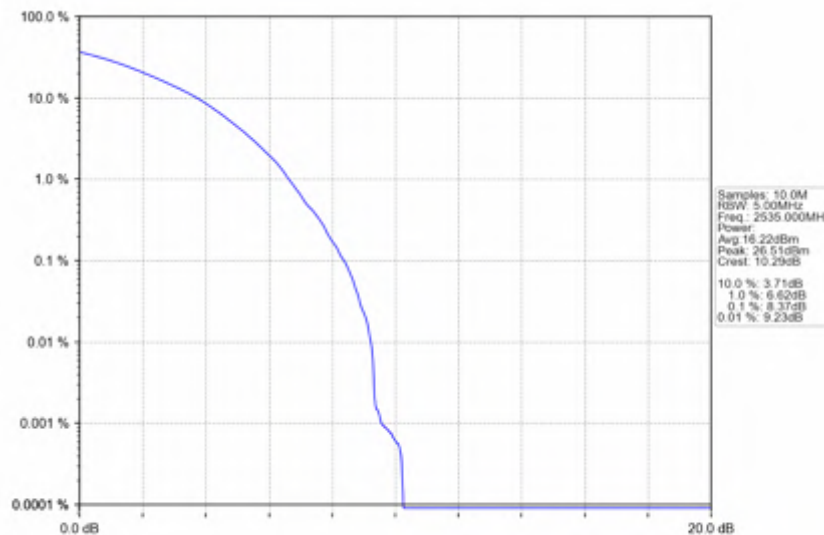
No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

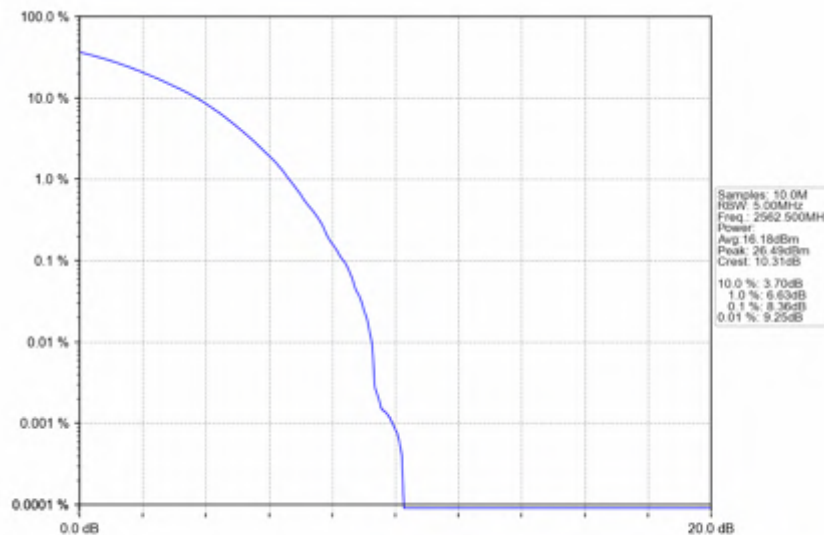
0086-51257370000 006-51257370000 www.sgs.com.cn

0086-51257350000 006-51257370000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2562.5MHz_Outer_Full

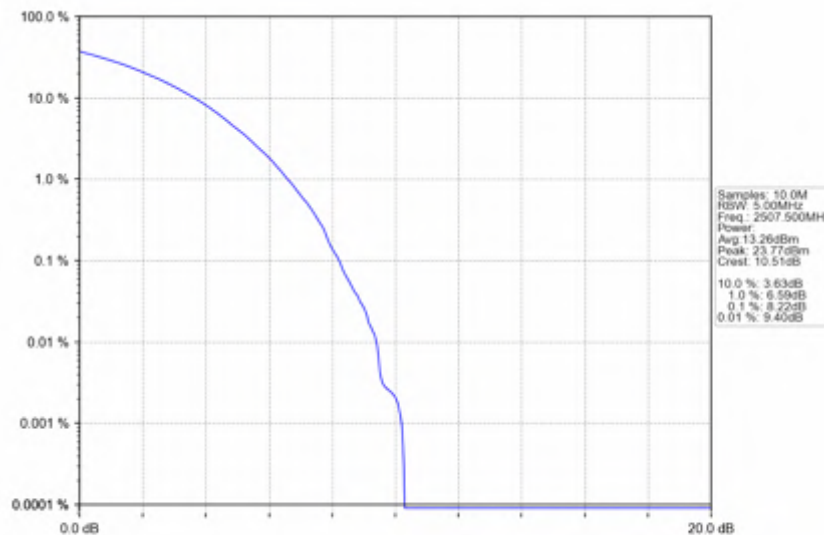


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370011
 or email: CN-Check@sgs.com.

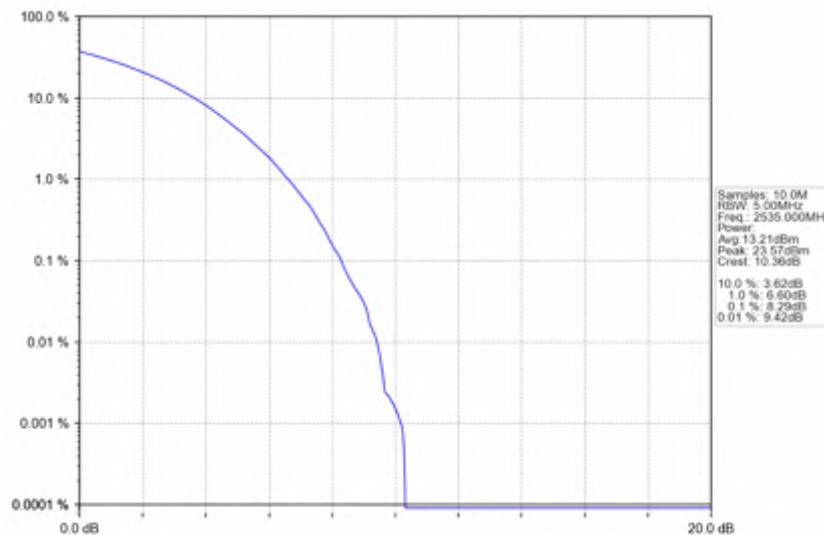
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350888 (86-512) 57370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2507.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2535MHz_Outer_Full

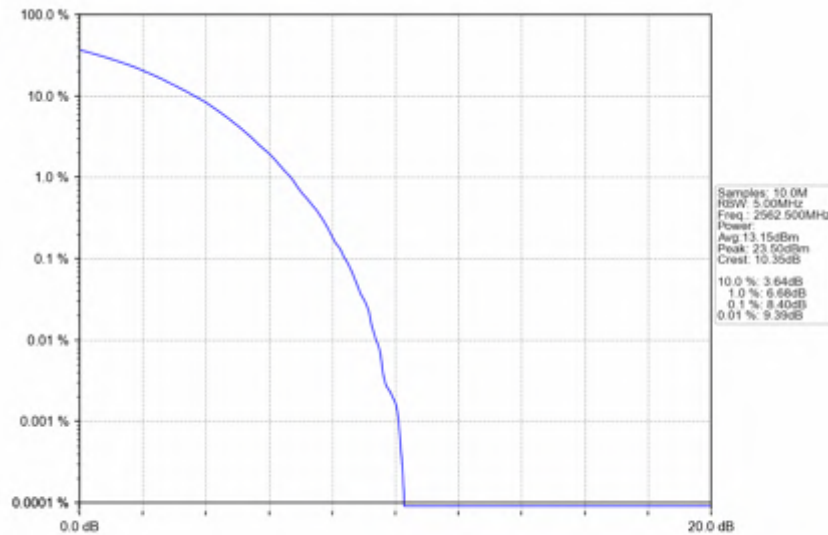


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 report or certificate, please connect us at sgs@sgs.com (86-512) 57370000
 or email: CN-Check@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512) 57350888 (86-512) 57370011 www.sgs.com.cn
 (86-512) 57350883 (86-512) 57370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2562.5MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at telephone: (+86-512) 57370011 or email: CH.Official@sgs.com.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

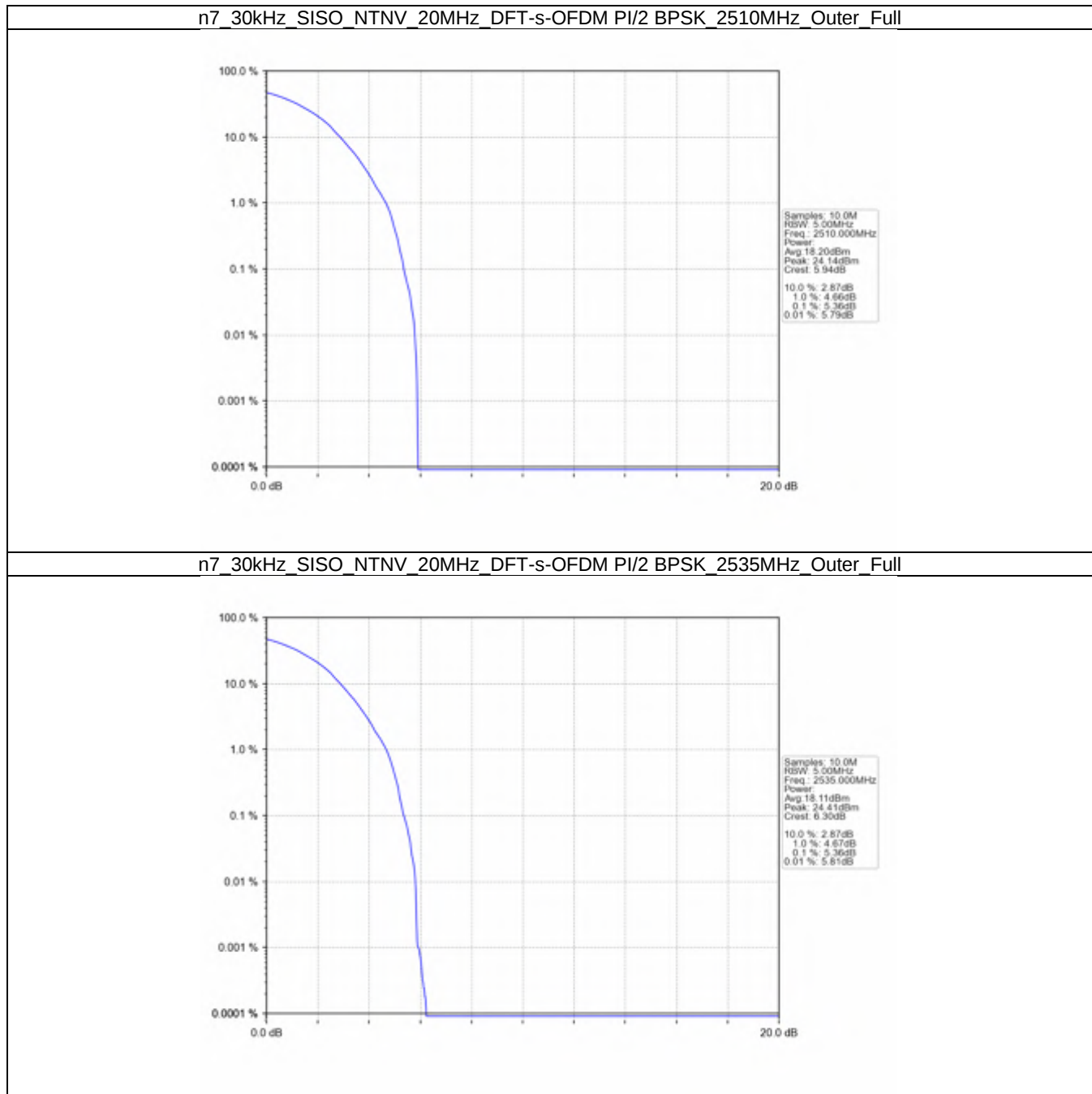
(+86-512) 57350888 (+86-512) 57370011 www.sgs.com.cn
 (+86-512) 57350883 (+86-512) 57370011 sgs.china@sgs.com

3.11 30k_SISO_20MHz_NTNV

3.11.1 Test Result

5G NR n7 SCS=30kHz SISO 20MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2510	Outer_Full	5.36	/	/	<=13	Pass
	2535	Outer_Full	5.36	/	/	<=13	Pass
	2560	Outer_Full	5.44	/	/	<=13	Pass
DFT-s-OFDM QPSK	2510	Outer_Full	6.86	/	/	<=13	Pass
	2535	Outer_Full	6.87	/	/	<=13	Pass
	2560	Outer_Full	6.87	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2510	Outer_Full	7.39	/	/	<=13	Pass
	2535	Outer_Full	7.42	/	/	<=13	Pass
	2560	Outer_Full	7.55	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2510	Outer_Full	7.51	/	/	<=13	Pass
	2535	Outer_Full	7.74	/	/	<=13	Pass
	2560	Outer_Full	7.60	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2510	Outer_Full	7.28	/	/	<=13	Pass
	2535	Outer_Full	7.42	/	/	<=13	Pass
	2560	Outer_Full	7.41	/	/	<=13	Pass
CP-OFDM QPSK	2510	Outer_Full	8.35	/	/	<=13	Pass
	2535	Outer_Full	8.42	/	/	<=13	Pass
	2560	Outer_Full	8.43	/	/	<=13	Pass
CP-OFDM 16 QAM	2510	Outer_Full	8.35	/	/	<=13	Pass
	2535	Outer_Full	8.47	/	/	<=13	Pass
	2560	Outer_Full	8.44	/	/	<=13	Pass
CP-OFDM 64 QAM	2510	Outer_Full	8.56	/	/	<=13	Pass
	2535	Outer_Full	8.43	/	/	<=13	Pass
	2560	Outer_Full	8.43	/	/	<=13	Pass
CP-OFDM 256 QAM	2510	Outer_Full	8.90	/	/	<=13	Pass
	2535	Outer_Full	8.93	/	/	<=13	Pass
	2560	Outer_Full	8.78	/	/	<=13	Pass

3.11.2 Test Graph

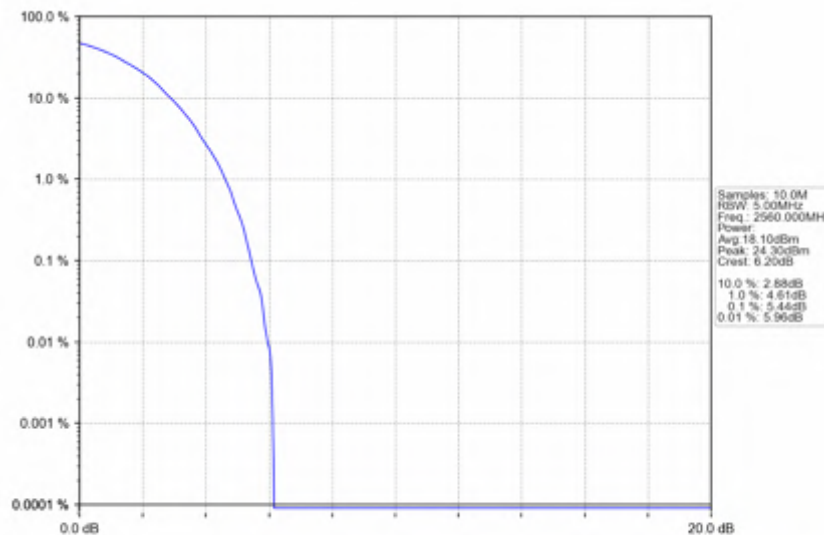


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed hereon, available on request or accessible at <http://www.irs.gov/efile/terms-and-conditions.asp> and, for electronic documents, subject to Terms and Conditions for Electronic Documents at <http://www.irs.gov/efile/terms-and-conditions/terms-and-conditions.asp>. 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 findings at the time of its intervention only and within the limits of the Company's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from their own responsibilities. The Company's intervention is limited to the matters specified in its instructions and it does not accept liability, 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 samples shown in this fast report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

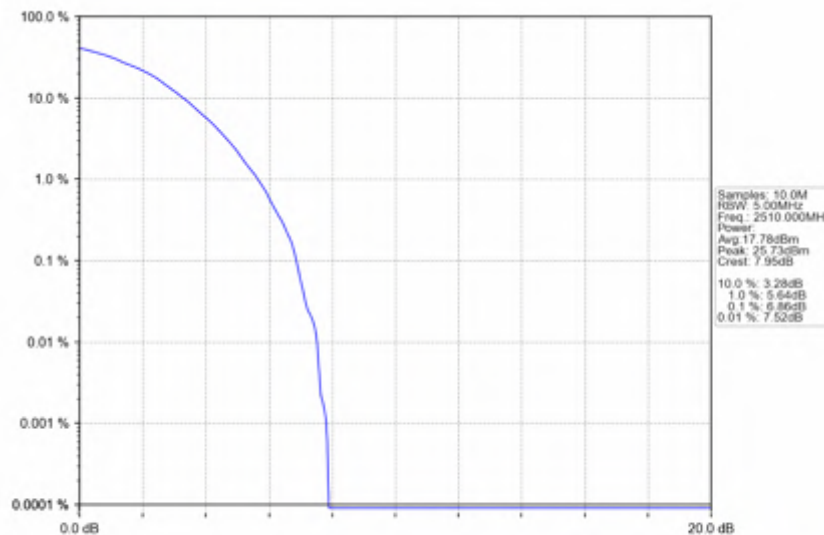
中国·江苏·昆山市留學生创业园伟业路10号 邮编 215300

086-5125735688 086-5125737000 www.sgsigroup.com.cn
086-5125735688 086-5125737000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2510MHz_Outer_Full



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-a-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 herein 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 report and certificate, please connect us at sgs@sgs.com (86-512)57370000 or email: CN-Online@sgs.com.

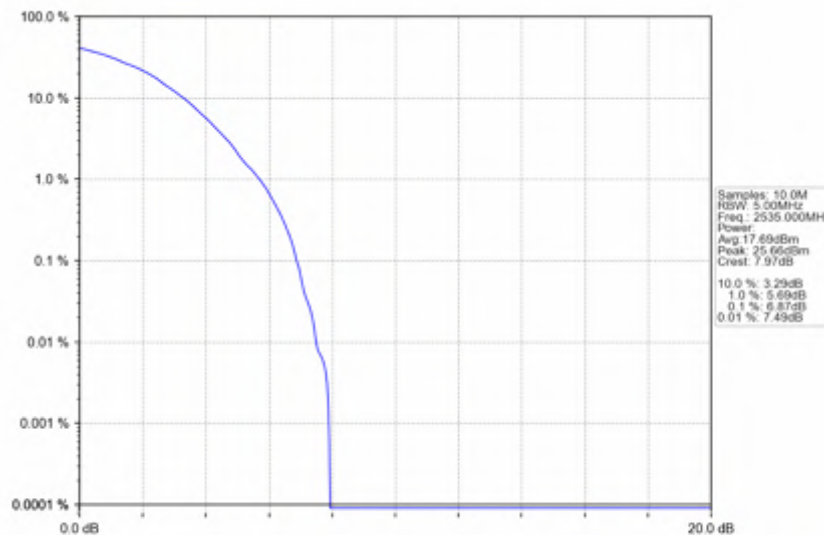
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

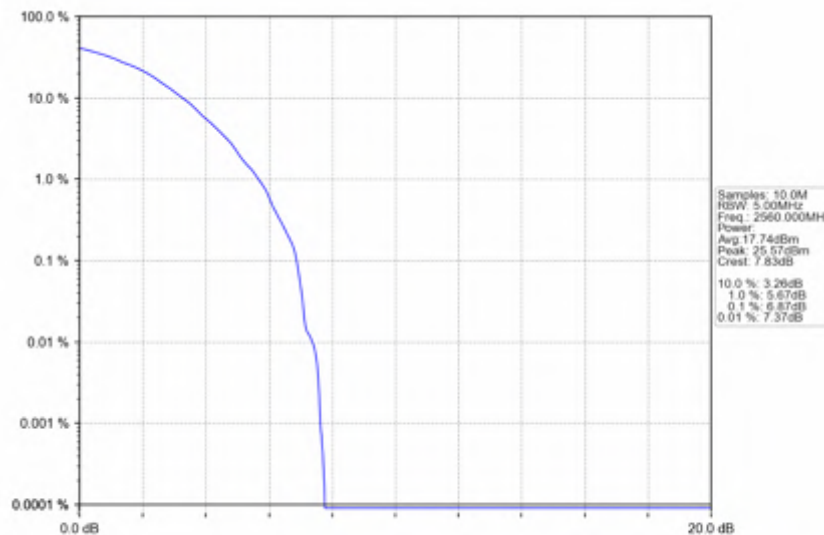
086-51257350888 086-51257370000 www.sgs.com.cn

086-51257350888 086-51257370000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2560MHz_Outer_Full

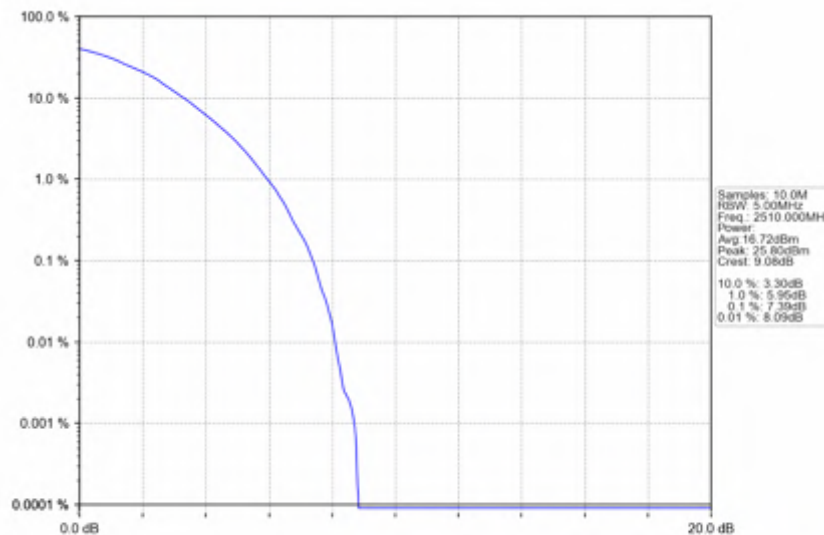


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011
 or email: CN-Check@sgs.com.

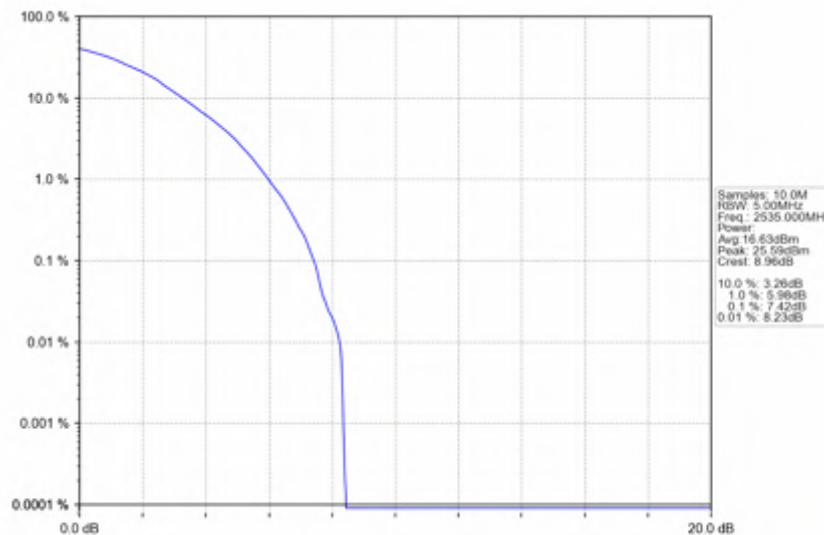
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
 (86-512)57350888 (86-512)57370011 sgs.china@sgs.com

n7 30kHz SISO NTNv 20MHz DFT-s-OFDM 16 QAM 2510MHz Outer Full



n7 30kHz SISO NTNv 20MHz DFT-s-OFDM 16 QAM 2535MHz Outer Full

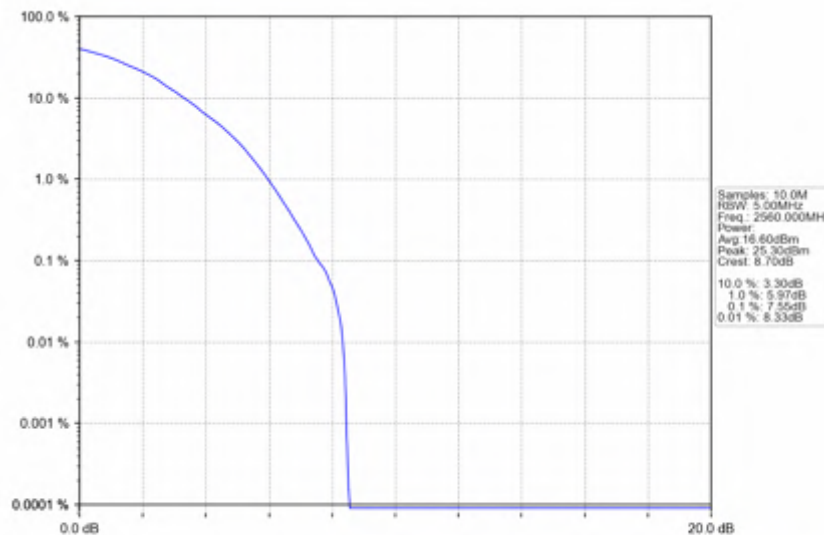


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed and available on request or accessible at <http://www.etsi.com/Products/ETSI%20Products%20and%20Conditions> and, for selected forms, printed subject to Terms and Conditions for Electronic Documents at <http://www.etsi.com/terms-and-conditions/Terms-a-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction terms defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of the Company's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a trial from their responsibility to the court. The Company's findings are not intended to constitute an opinion or a recommendation, 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 fast report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. For more information on the fast report or testing contact the following ETSI contact at any time: etsi@etsi.com or etsi@etsi.fr or [+3333707417000](tel:+3333707417000) or [+3333707417001](tel:+3333707417001).

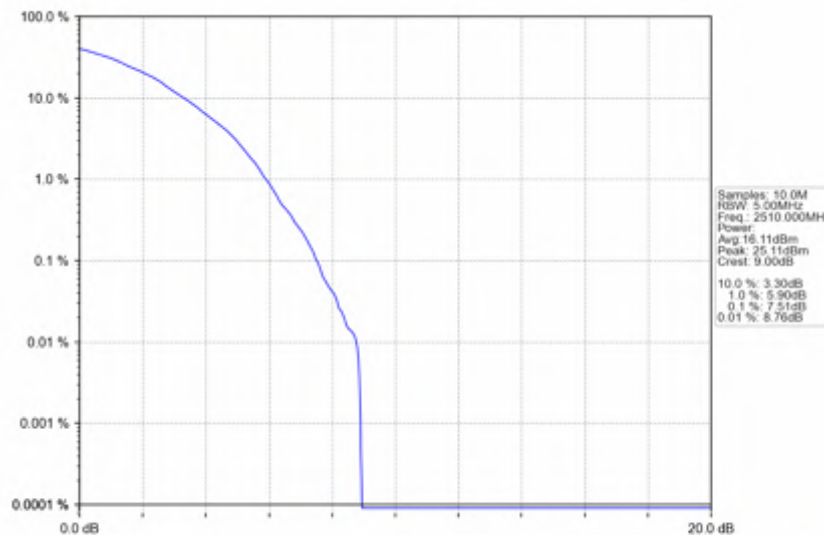
中国·江苏·昆山市周庄学生创业园伟业路10号 邮编 215300

086-5125735688 086-5125737000 www.sgsigroup.com.cn
086-5125735688 086-5125737000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16 QAM_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64 QAM_2510MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

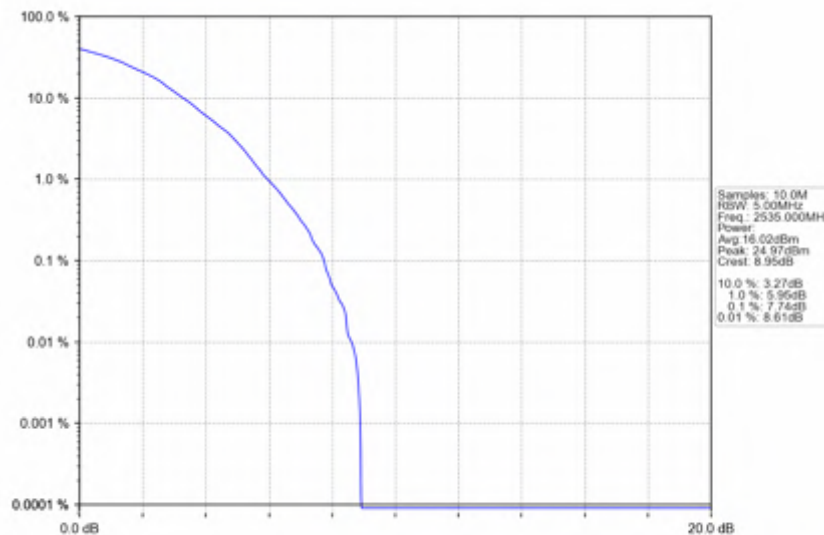
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

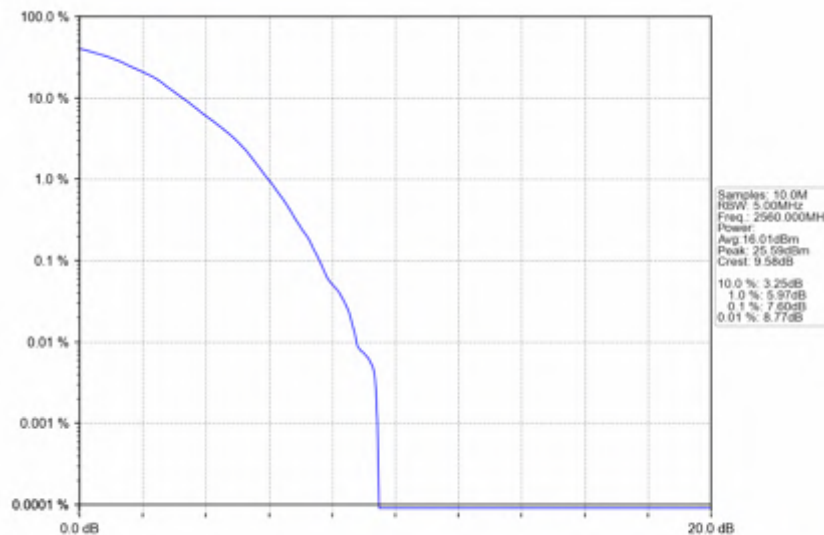
0086-51257350888 006-5125737000 www.sgs.com.cn

0086-51257350888 006-5125737000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2560MHz_Outer_Full



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-a-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 herein 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 certification reports & certificates, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

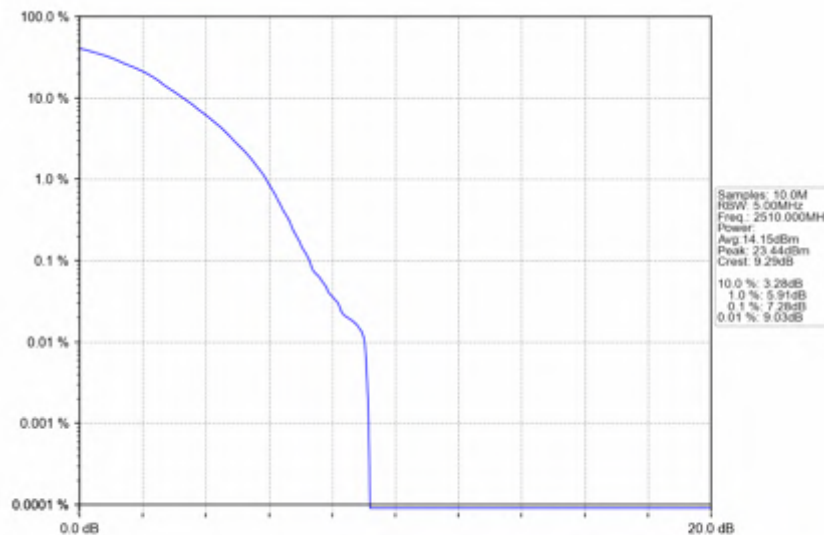
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

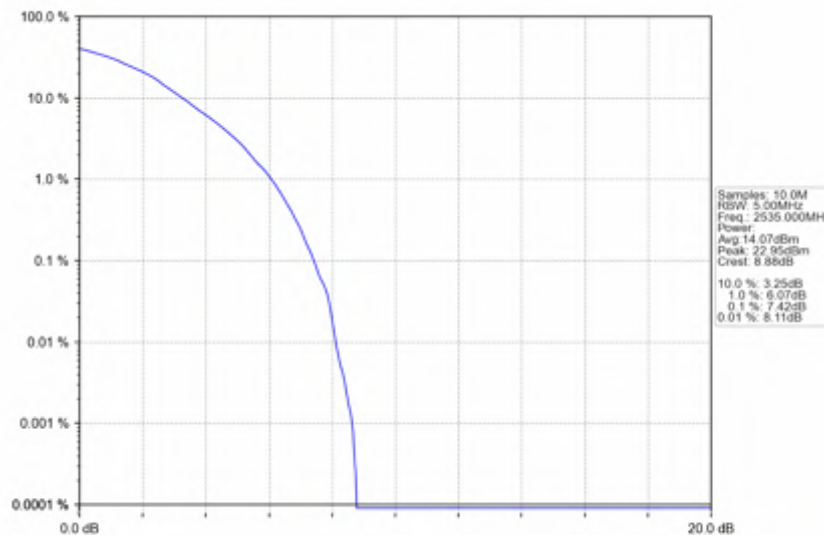
0086-51257350888 006-51257370000 www.sgs.com.cn

0086-51257350888 006-51257370000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2510MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2535MHz_Outer_Full



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-a-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 report and certificate, please connect us at sgs@sgs.com (86-512) 57370000 or email: CN-Online@sgs.com.

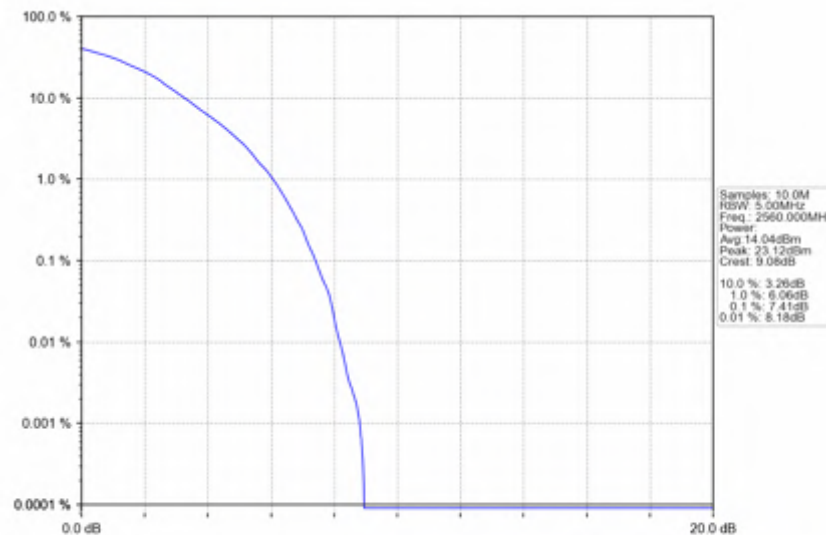
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

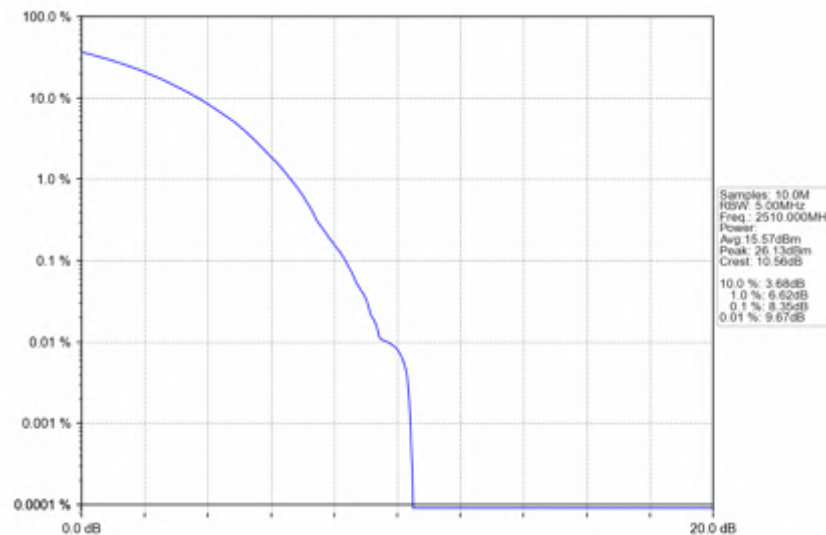
0086-51257350888 006-5125737000 www.sgs.com.cn

0086-51257350888 006-5125737000 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2510MHz_Outer_Full

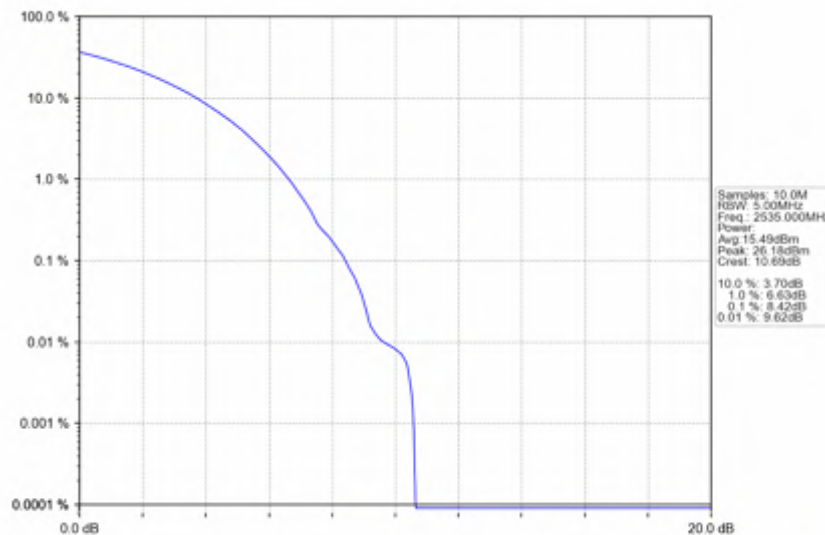


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 overall, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents,
 subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-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 herein 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 certification report & certificate, please connect us at sgs@sgs.com (86-512)57370011
 or email: CN-Check@sgs.com.

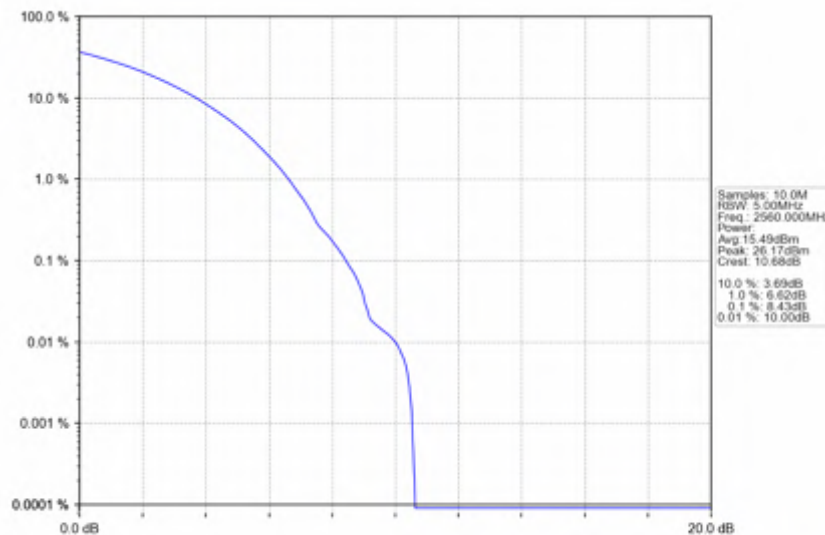
No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn
 (86-512)57350888 (86-512)57370011 sgs.china@sgs.com

n7_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2560MHz_Outer_Full



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-a-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 certification report & certificate, please connect us at CH.Official@sgs.com or email: CH.Official@sgs.com.

No.18, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

0512-57350888 0512-57370910 www.sgs.com.cn

0512-57350883 0512-57370911 sgs.china@sgs.com