

Appendix -

Test Data and Result for report

GZCR230500052402



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

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

1 Effective Radiated Power (ERP)

Test Conf.		ANT	Test CH	ERP			Verdict
				Conducted power (dBm)	MIMO Total ERP (dBm)	(W)	
1 LTE	TC00	ANT1	B	46.45	55.33	341.19	Pass
		ANT1	M	46.26	55.14	326.59	Pass
		ANT1	T	46.10	54.98	314.77	Pass
	TC01	ANT1	B	46.43	55.31	339.63	Pass
		ANT1	M	46.18	55.06	320.63	Pass
		ANT1	T	46.24	55.12	325.09	Pass
	TC02	ANT1	B	46.26	55.14	326.59	Pass
		ANT1	M	46.41	55.29	338.06	Pass
		ANT1	T	46.15	55.03	318.42	Pass
	TC03	ANT1	B	46.20	55.08	322.11	Pass
		ANT1	M	46.34	55.22	332.66	Pass
		ANT1	T	46.11	54.99	315.50	Pass
	TC4	ANT1	B	46.34	55.22	332.66	Pass
		ANT1	M	46.30	55.18	329.61	Pass
		ANT1	T	46.36	55.24	334.20	Pass
	TC5	ANT1	B	46.35	55.23	333.43	Pass
		ANT1	M	46.28	55.16	328.10	Pass
		ANT1	T	46.45	55.33	341.19	Pass
	TC6	ANT1	B	46.17	55.05	319.89	Pass
		ANT1	M	46.18	55.06	320.63	Pass
		ANT1	T	46.45	55.33	341.19	Pass
	TC7	ANT1	B	46.44	55.32	340.41	Pass
		ANT1	M	46.38	55.26	335.74	Pass
		ANT1	T	46.34	55.22	332.66	Pass

Remark:

- Transmitter output signals are completely uncorrelated declared from the manufacturer. For 4x4 MIMO, the MIMO Total ERP=Total conducted power (dBm)+ antenna gain (dBi)- 2.15dB.
- The maximum antenna gain is 5dBi from the manufacturer. The output power is limited to an ERP of 500W. The conducted test performed at antenna 1 port only due to the four MIMO ports with identical design(Hardware & software) and radio output.

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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-20) 83071443, or email: CN.Doccheck@sgs.com



SGS-CSTC Standards Technical Services Co., Ltd. | No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | t (86-20) 82155555 | f (86-20) 82075058 | www.sgsgroup.com.cn
Guangzhou Branch Testing Center | EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | t (86-20) 82155555 | f (86-20) 82075058 | sgs.china@sgs.com

ERP							
Test Conf.		ANT	Test CH	Conducted power	MIMO Total ERP		Verdict
				(dBm)	(dBm)	(W)	
1 LTE	TC8	ANT1	B	46.10	54.98	314.77	Pass
		ANT1	M	46.23	55.11	324.34	Pass
		ANT1	T	46.23	55.11	324.34	Pass
	TC9	ANT1	B	46.37	55.25	334.97	Pass
		ANT1	M	46.33	55.21	331.89	Pass
		ANT1	T	46.12	55.00	316.23	Pass
	TC10	ANT1	B	46.24	55.12	325.09	Pass
		ANT1	M	46.18	55.06	320.63	Pass
		ANT1	T	46.38	55.26	335.74	Pass
	TC11	ANT1	B	46.41	55.29	338.06	Pass
		ANT1	M	46.28	55.16	328.10	Pass
		ANT1	T	46.28	55.16	328.10	Pass
2 LTE	TC12	ANT1	B	46.24	55.12	325.09	Pass
		ANT1	M	46.38	55.26	335.74	Pass
		ANT1	T	46.10	54.98	314.77	Pass
	TC13	ANT1	B	46.23	55.11	324.34	Pass
		ANT1	M	46.29	55.17	328.85	Pass
		ANT1	T	46.35	55.23	333.43	Pass
	TC14	ANT1	B	46.20	55.08	322.11	Pass
		ANT1	M	46.11	54.99	315.50	Pass
		ANT1	T	46.15	55.03	318.42	Pass
	TC15	ANT1	/	46.41	55.29	338.06	Pass
	TC16	ANT1	/	46.26	55.14	326.59	Pass
	TC17	ANT1	/	46.38	55.26	335.74	Pass

Remark:

- Transmitter output signals are completely uncorrelated declared from the manufacturer. For 4x4 MIMO, the MIMO Total ERP= Total conducted power (dBm)+ antenna gain (dBi)- 2.15dB.
- The maximum antenna gain is 5dBi from the manufacturer. The output power is limited to an ERP of 500W. The conducted test performed at antenna 1 port only due to the four MIMO ports with identical design(Hardware & software) and radio output.

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

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



SGS-CSTC Standards Technical Services Co., Ltd. No.198 Kezhi Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch EEC Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Test Conf.		ANT	Test CH	ERP			Verdict
				Conducted power (dBm)	MIMO Total ERP (dBm)	(W)	
2 LTE	TC18	ANT1	B	46.26	55.14	326.59	Pass
		ANT1	M	46.11	54.99	315.50	Pass
		ANT1	T	46.21	55.09	322.85	Pass
	TC19	ANT1	B	46.24	55.12	325.09	Pass
		ANT1	M	46.21	55.09	322.85	Pass
		ANT1	T	46.19	55.07	321.37	Pass
	TC20	ANT1	B	46.19	55.07	321.37	Pass
		ANT1	M	46.39	55.27	336.51	Pass
		ANT1	T	46.20	55.08	322.11	Pass
	TC21	ANT1	/	46.40	55.28	337.29	Pass
	TC22	ANT1	/	46.35	55.23	333.43	Pass
	TC23	ANT1	/	46.31	55.19	330.37	Pass
	TC24	ANT1	B	46.22	55.10	323.59	Pass
		ANT1	M	46.27	55.15	327.34	Pass
		ANT1	T	46.16	55.04	319.15	Pass
	TC25	ANT1	B	46.19	55.07	321.37	Pass
		ANT1	M	46.18	55.06	320.63	Pass
		ANT1	T	46.35	55.23	333.43	Pass
	TC26	ANT1	B	46.09	54.97	314.05	Pass
		ANT1	M	46.19	55.07	321.37	Pass
		ANT1	T	46.20	55.08	322.11	Pass
	TC27	ANT1	/	46.14	55.02	317.69	Pass
	TC28	ANT1	/	46.21	55.09	322.85	Pass
	TC29	ANT1	/	46.23	55.11	324.34	Pass

Remark:

- Transmitter output signals are completely uncorrelated declared from the manufacturer. For 4x4 MIMO, the MIMO Total ERP= Total conducted power (dBm)+ antenna gain (dBi)- 2.15dB.
- The maximum antenna gain is 5dBi from the manufacturer. The output power is limited to an ERP of 500W. The conducted test performed at antenna 1 port only due to the four MIMO ports with identical design(Hardware & software) and radio output.

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

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



SGS-CSTC Standards Technical Services Co., Ltd. | No.198 Kezhi Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | t (86-20) 82155555 | f (86-20) 82075058 | www.sgsgroup.com.cn
Guangzhou Branch EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | t (86-20) 82155555 | f (86-20) 82075058 | sgs.china@sgs.com

ERP							
Test Conf.	ANT	Test CH	Conducted power	MIMO Total ERP		Verdict	
			(dBm)	(dBm)	(W)		
1 GSM+ 1 LTE	TC30	ANT1	/	46.20	55.08	322.11	Pass
	TC31	ANT1	/	46.11	54.99	315.50	Pass
	TC32	ANT1	/	46.09	54.97	314.05	Pass
	TC33	ANT1	/	46.29	55.17	328.85	Pass
	TC34	ANT1	/	46.16	55.04	319.15	Pass
	TC35	ANT1	/	46.18	55.06	320.63	Pass
	TC36	ANT1	/	46.42	55.30	338.84	Pass
	TC37	ANT1	/	46.34	55.22	332.66	Pass
	TC38	ANT1	/	46.15	55.03	318.42	Pass
	TC39	ANT1	/	46.15	55.03	318.42	Pass
	TC40	ANT1	/	46.20	55.08	322.11	Pass
	TC41	ANT1	/	46.43	55.31	339.63	Pass
	TC42	ANT1	/	46.10	54.98	314.77	Pass
	TC43	ANT1	/	46.13	55.01	316.96	Pass
	TC44	ANT1	/	46.39	55.27	336.51	Pass
	TC45	ANT1	/	46.24	55.12	325.09	Pass
	TC46	ANT1	/	46.29	55.17	328.85	Pass
	TC47	ANT1	/	46.15	55.03	318.42	Pass
	TC48	ANT1	/	46.33	55.21	331.89	Pass
	TC49	ANT1	/	46.37	55.25	334.97	Pass
	TC50	ANT1	/	46.45	55.33	341.19	Pass
	TC51	ANT1	/	46.17	55.05	319.89	Pass
	TC52	ANT1	/	46.16	55.04	319.15	Pass
	TC53	ANT1	/	46.12	55.00	316.23	Pass

Remark:

- Transmitter output signals are completely uncorrelated declared from the manufacturer. For 4x4 MIMO, the MIMO Total ERP= Total conducted power (dBm)+ antenna gain (dBi)- 2.15dB.
- The maximum antenna gain is 5dBi from the manufacturer. The output power is limited to an ERP of 500W. The conducted test performed at antenna 1 port only due to the four MIMO ports with identical design(Hardware & software) and radio output.



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

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

SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

ERP							
Test Conf.	ANT	Test CH	Conducted power	MIMO Total ERP		Verdict	
			(dBm)	(dBm)	(W)		
2 GSM+ 1 LTE	TC54	ANT1	/	46.42	55.3	338.84	Pass
	TC55	ANT1	/	46.41	55.29	338.06	Pass
	TC56	ANT1	/	46.35	55.23	333.43	Pass
	TC57	ANT1	/	46.30	55.18	329.61	Pass
	TC58	ANT1	/	46.09	54.97	314.05	Pass
	TC59	ANT1	/	46.40	55.28	337.29	Pass
	TC60	ANT1	/	46.38	55.26	335.74	Pass
	TC61	ANT1	/	46.15	55.03	318.42	Pass
	TC62	ANT1	/	46.20	55.08	322.11	Pass
	TC63	ANT1	/	46.16	55.04	319.15	Pass
	TC64	ANT1	/	46.43	55.31	339.63	Pass
	TC65	ANT1	/	46.21	55.09	322.85	Pass
	TC66	ANT1	/	46.22	55.1	323.59	Pass
	TC67	ANT1	/	46.25	55.13	325.84	Pass
	TC68	ANT1	/	46.35	55.23	333.43	Pass
	TC69	ANT1	/	46.38	55.26	335.74	Pass
	TC70	ANT1	/	46.32	55.2	331.13	Pass
	TC71	ANT1	/	46.23	55.11	324.34	Pass
	TC72	ANT1	/	46.16	55.04	319.15	Pass
	TC73	ANT1	/	46.38	55.26	335.74	Pass
	TC74	ANT1	/	46.17	55.05	319.89	Pass
	TC75	ANT1	/	46.27	55.15	327.34	Pass
	TC76	ANT1	/	46.35	55.23	333.43	Pass
	TC77	ANT1	/	46.34	55.22	332.66	Pass

Remark:

- Transmitter output signals are completely uncorrelated declared from the manufacturer. For 4x4 MIMO, the MIMO Total ERP=Total conducted power (dBm)+ antenna gain (dBi)- 2.15dB.
- The maximum antenna gain is 5dBi from the manufacturer. The output power is limited to an ERP of 500W. The conducted test performed at antenna 1 port only due to the four MIMO ports with identical design(Hardware & software) and radio output.



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

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

SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

ERP						
Test Conf.	ANT	Test CH	GSM carrier conducted power	GSM carrier MIMO Total ERP		
			(dBm)	(dBm)	(W)	
1 GSM+ 1 LTE	TC30	ANT1	/	43.65	52.52	178.65
	TC31	ANT1	/	43.17	52.04	159.96
	TC32	ANT1	/	43.09	51.96	157.04
	TC33	ANT1	/	43.65	52.52	178.65
	TC34	ANT1	/	43.09	51.96	157.04
	TC35	ANT1	/	43.23	52.1	162.19
	TC36	ANT1	/	43.19	52.06	160.70
	TC37	ANT1	/	43.40	52.27	168.66
	TC38	ANT1	/	43.14	52.01	158.86
	TC39	ANT1	/	43.21	52.08	161.44
	TC40	ANT1	/	43.32	52.19	165.58
	TC41	ANT1	/	43.65	52.52	178.65
	TC42	ANT1	/	43.26	52.13	163.31
	TC43	ANT1	/	43.09	51.96	157.04
	TC44	ANT1	/	43.47	52.34	171.40
	TC45	ANT1	/	43.32	52.19	165.58
	TC46	ANT1	/	43.25	52.12	162.93
	TC47	ANT1	/	43.17	52.04	159.96
	TC48	ANT1	/	43.42	52.29	169.44
	TC49	ANT1	/	43.40	52.27	168.66
	TC50	ANT1	/	43.51	52.38	172.99
	TC51	ANT1	/	43.30	52.17	164.82
	TC52	ANT1	/	43.12	51.99	158.13
	TC53	ANT1	/	43.22	52.09	161.81

Remark:

- Transmitter output signals are completely uncorrelated declared from the manufacturer. For 4x4 MIMO, the MIMO Total ERP= Total conducted power (dBm)+ antenna gain (dBi)- 2.15dB.
- The conducted test performed at antenna 1 port only due to the four MIMO ports with identical design (Hardware & software) and radio output.

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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-20) 83071443, or email: CN.Doccheck@sgs.com



SGS-CSTC Standards Technical Services Co., Ltd. | No.198 Kexu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | t (86-20) 82155555 | f (86-20) 82075058 | www.sgsgroup.com.cn
Guangzhou Branch EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | t (86-20) 82155555 | f (86-20) 82075058 | sgs.china@sgs.com

ERP						
Test Conf.	ANT	Test CH	GSM carriers conducted power	GSM carriers MIMO Total ERP		
			(dBm)	(dBm)	(W)	
2 GSM+ 1 LTE	TC54	ANT1	/	43.65	52.52	178.65
	TC55	ANT1	/	43.57	52.44	175.39
	TC56	ANT1	/	43.32	52.19	165.58
	TC57	ANT1	/	43.41	52.28	169.05
	TC58	ANT1	/	43.18	52.05	160.33
	TC59	ANT1	/	43.56	52.43	174.99
	TC60	ANT1	/	43.44	52.31	170.22
	TC61	ANT1	/	43.23	52.1	162.19
	TC62	ANT1	/	43.32	52.19	165.58
	TC63	ANT1	/	43.24	52.11	162.56
	TC64	ANT1	/	43.61	52.48	177.02
	TC65	ANT1	/	43.19	52.06	160.70
	TC66	ANT1	/	43.34	52.21	166.35
	TC67	ANT1	/	43.30	52.17	164.82
	TC68	ANT1	/	43.43	52.3	169.83
	TC69	ANT1	/	43.40	52.27	168.66
	TC70	ANT1	/	43.45	52.32	170.61
	TC71	ANT1	/	43.37	52.24	167.50
	TC72	ANT1	/	43.28	52.15	164.06
	TC73	ANT1	/	43.46	52.33	171.01
	TC74	ANT1	/	43.33	52.2	165.96
	TC75	ANT1	/	43.37	52.24	167.50
	TC76	ANT1	/	43.41	52.28	169.05
	TC77	ANT1	/	43.45	52.32	170.61

Remark:

- Transmitter output signals are completely uncorrelated declared from the manufacturer. For 4x4 MIMO, the MIMO Total ERP= Total conducted power (dBm)+ antenna gain (dBi)- 2.15dB.
- The conducted test performed at antenna 1 port only due to the four MIMO ports with identical design (Hardware & software) and radio output.

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

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



SGS-CSTC Standards Technical Services Co., Ltd. | No.198 Kezhi Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | t (86-20) 82155555 | f (86-20) 82075058 | www.sgsgroup.com.cn
Guangzhou Branch EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | t (86-20) 82155555 | f (86-20) 82075058 | sgs.china@sgs.com

2 Peak-to-average ratio (PAR)

PAR						
Test Conf.		ANT	Test CH	PAR (dB)	Limit (dB)	Verdict
1 LTE	TC00	ANT1	B	8.17	≤13	Pass
		ANT1	M	8.16	≤13	Pass
		ANT1	T	8.20	≤13	Pass
	TC01	ANT1	B	8.18	≤13	Pass
		ANT1	M	8.01	≤13	Pass
		ANT1	T	8.12	≤13	Pass
	TC02	ANT1	B	8.18	≤13	Pass
		ANT1	M	8.09	≤13	Pass
		ANT1	T	8.11	≤13	Pass
	TC03	ANT1	B	8.15	≤13	Pass
		ANT1	M	8.15	≤13	Pass
		ANT1	T	8.13	≤13	Pass
	TC04	ANT1	B	8.12	≤13	Pass
		ANT1	M	8.03	≤13	Pass
		ANT1	T	8.01	≤13	Pass
	TC05	ANT1	B	8.12	≤13	Pass
		ANT1	M	8.22	≤13	Pass
		ANT1	T	8.13	≤13	Pass
	TC06	ANT1	B	8.12	≤13	Pass
		ANT1	M	8.19	≤13	Pass
		ANT1	T	8.09	≤13	Pass
	TC07	ANT1	B	8.11	≤13	Pass
		ANT1	M	8.06	≤13	Pass
		ANT1	T	8.05	≤13	Pass
	TC08	ANT1	B	8.02	≤13	Pass
		ANT1	M	8.07	≤13	Pass
		ANT1	T	8.13	≤13	Pass

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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-20) 8307 1443, or email: CN.Doccheck@sgs.com



SGS-CSTC Standards Technical Services Co., Ltd. | No.198 Kezhi Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | t (86-20) 82155555 | f (86-20) 82075058 | www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | t (86-20) 82155555 | f (86-20) 82075058 | sgs.china@sgs.com

PAR						
Test Conf.		ANT	Test Channel	PAR (dB)	Limit (dB)	Verdict
1 LTE	TC09	ANT1	B	8.20	≤13	Pass
		ANT1	M	8.06	≤13	Pass
		ANT1	T	8.13	≤13	Pass
	TC10	ANT1	B	8.11	≤13	Pass
		ANT1	M	8.11	≤13	Pass
		ANT1	T	8.08	≤13	Pass
	TC11	ANT1	B	8.16	≤13	Pass
		ANT1	M	8.11	≤13	Pass
		ANT1	T	8.15	≤13	Pass

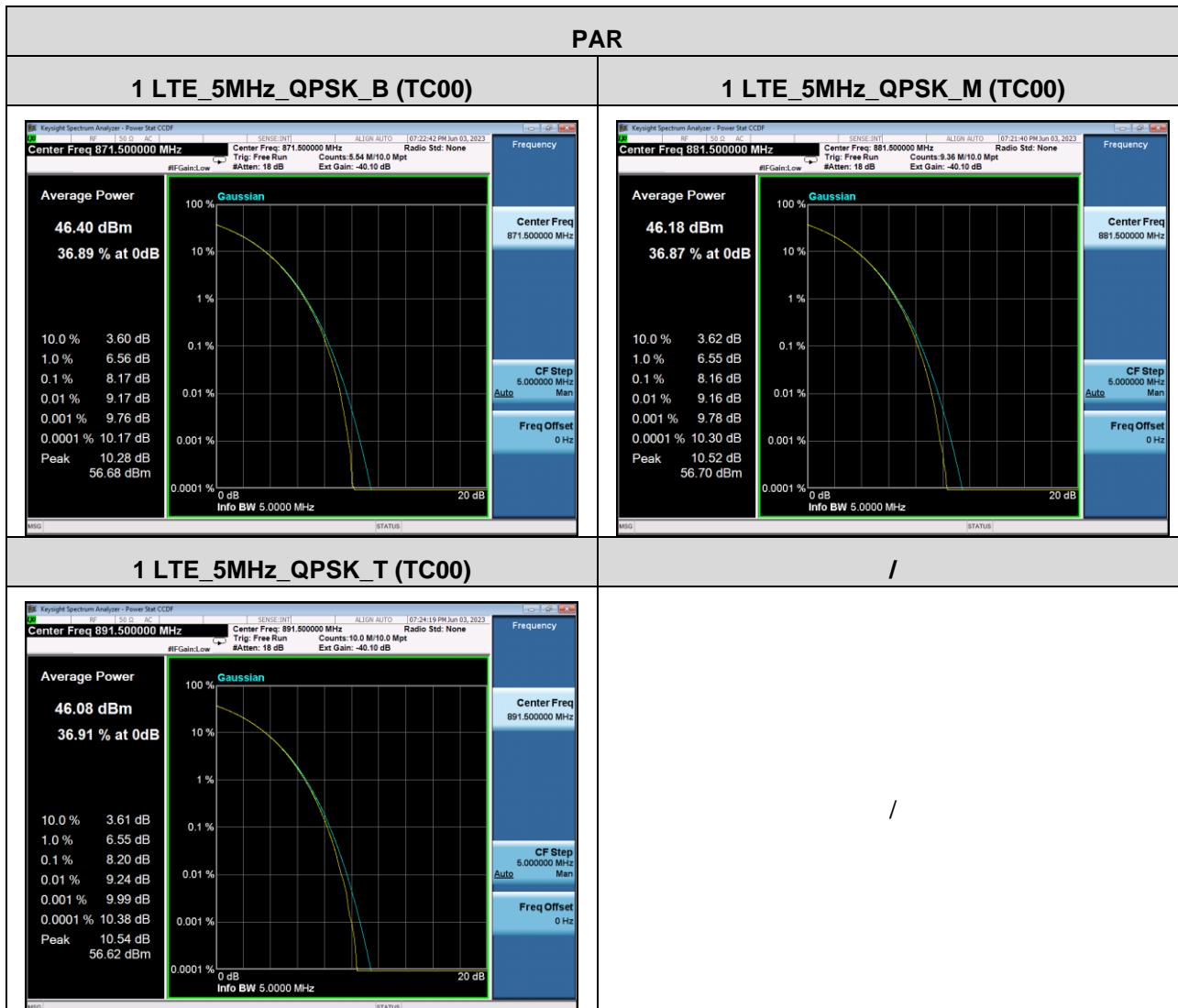
Test performed on all test configuration, since the GSM carrier is narrow band single with extremity low PAR values(The worst case is 0.6), and LTE multi-carriers with identical bandwidth and modulation type to the single LTE carrier, Therefore, only the test plot for single LTE carrier 5MHz bandwidth and 10MHz bandwidth were record in the report for demonstrate PAR compliance.

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

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



SGS-CSTC Standards Technical Services Co., Ltd. | No.198 Kezhi Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | t (86-20) 82155555 | f (86-20) 82075058 | www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | t (86-20) 82155555 | f (86-20) 82075058 | sgs.china@sgs.com

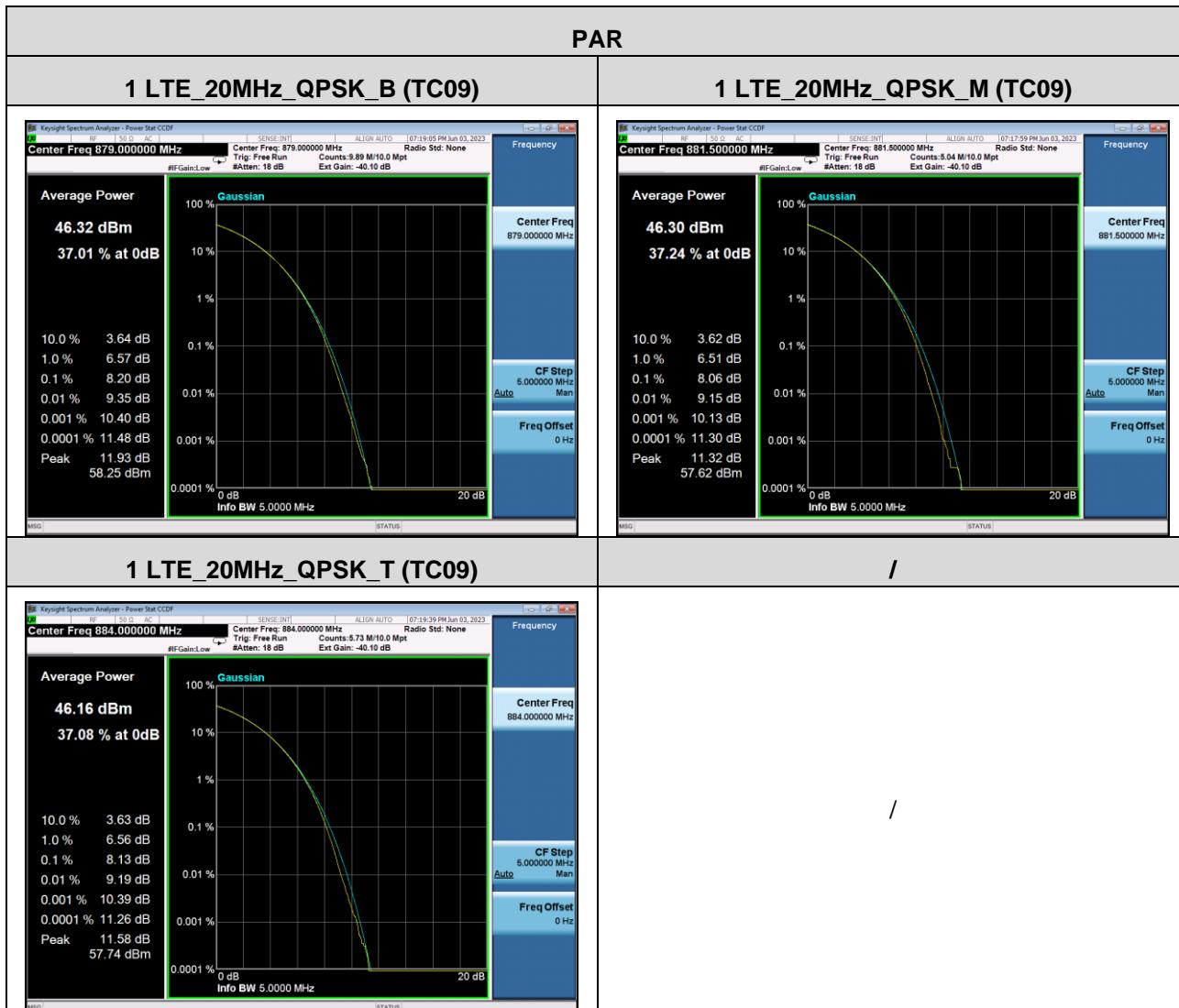


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



SGS-CSTC Standards Technical Services Co., Ltd. | No.198 Kexu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | t (86-20) 82155555 | f (86-20) 82075058 | www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | t (86-20) 82155555 | f (86-20) 82075058 | sgs.china@sgs.com



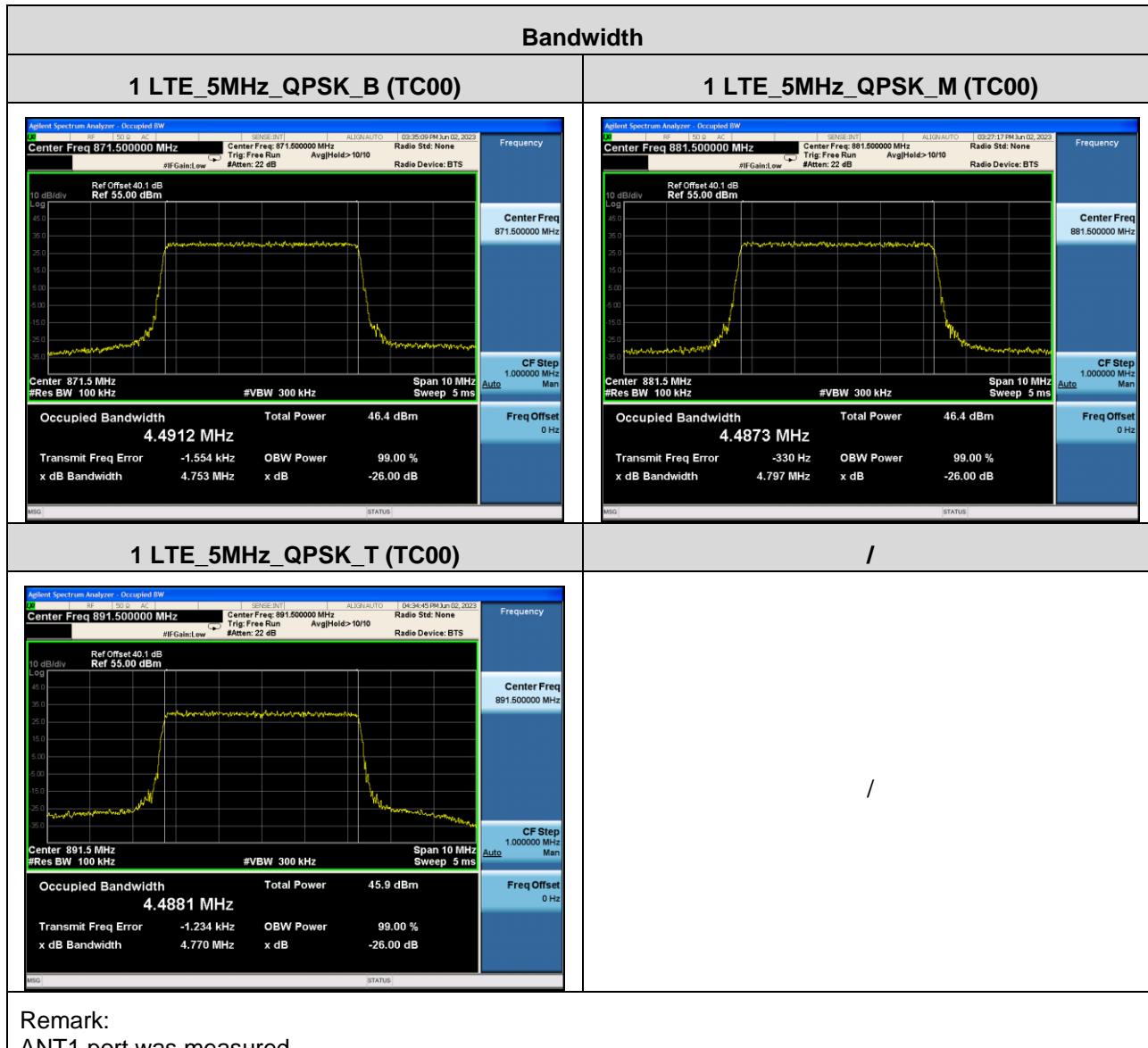
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-20) 8307 1443, or email: CN.Doccheck@sgs.com



SGS-CSTC Standards Technical Services Co., Ltd. | No.198 Kexu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | t (86-20) 82155555 | f (86-20) 82075058 | www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | t (86-20) 82155555 | f (86-20) 82075058 | sgs.china@sgs.com

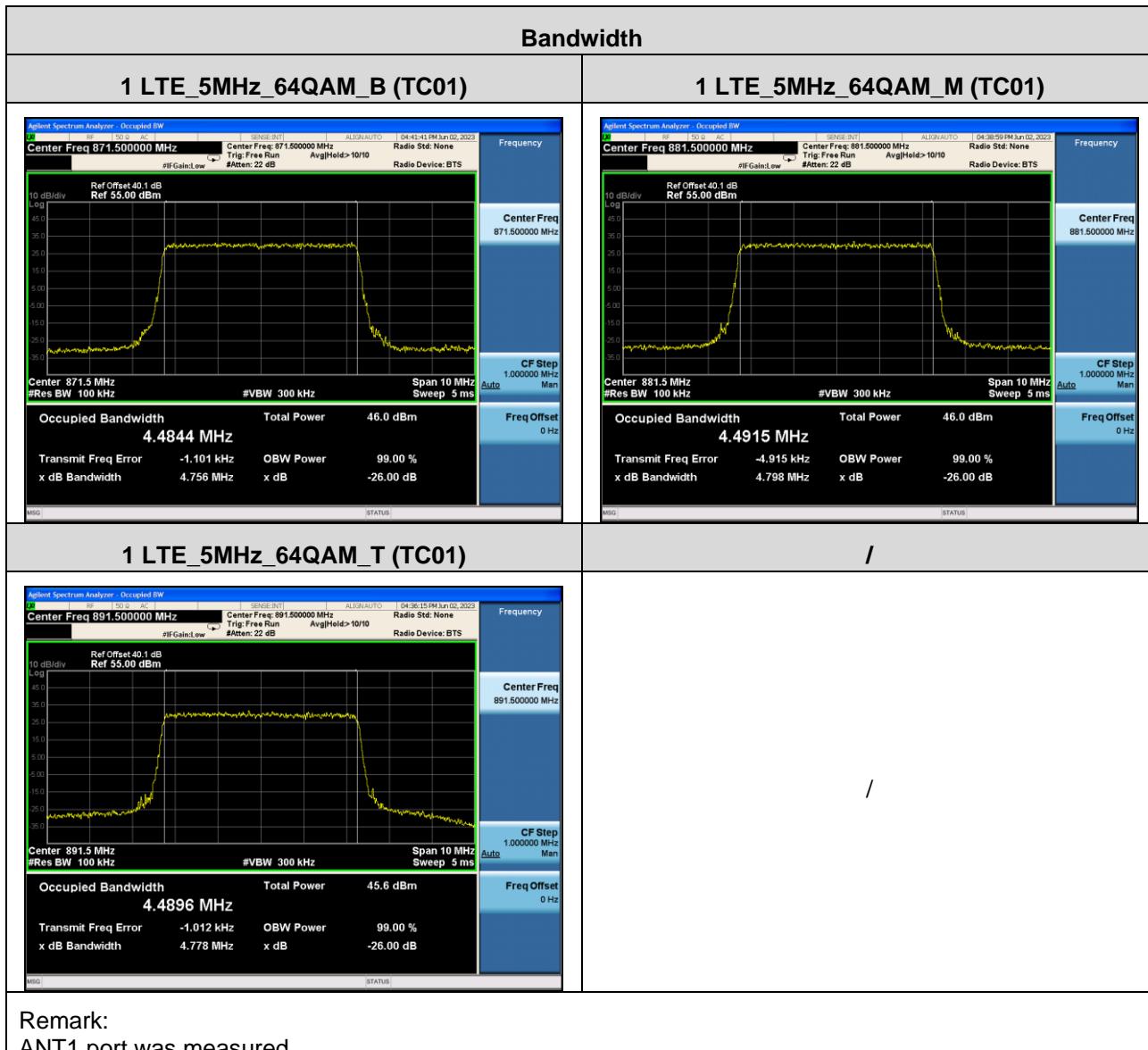
3 Occupied Bandwidth



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

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



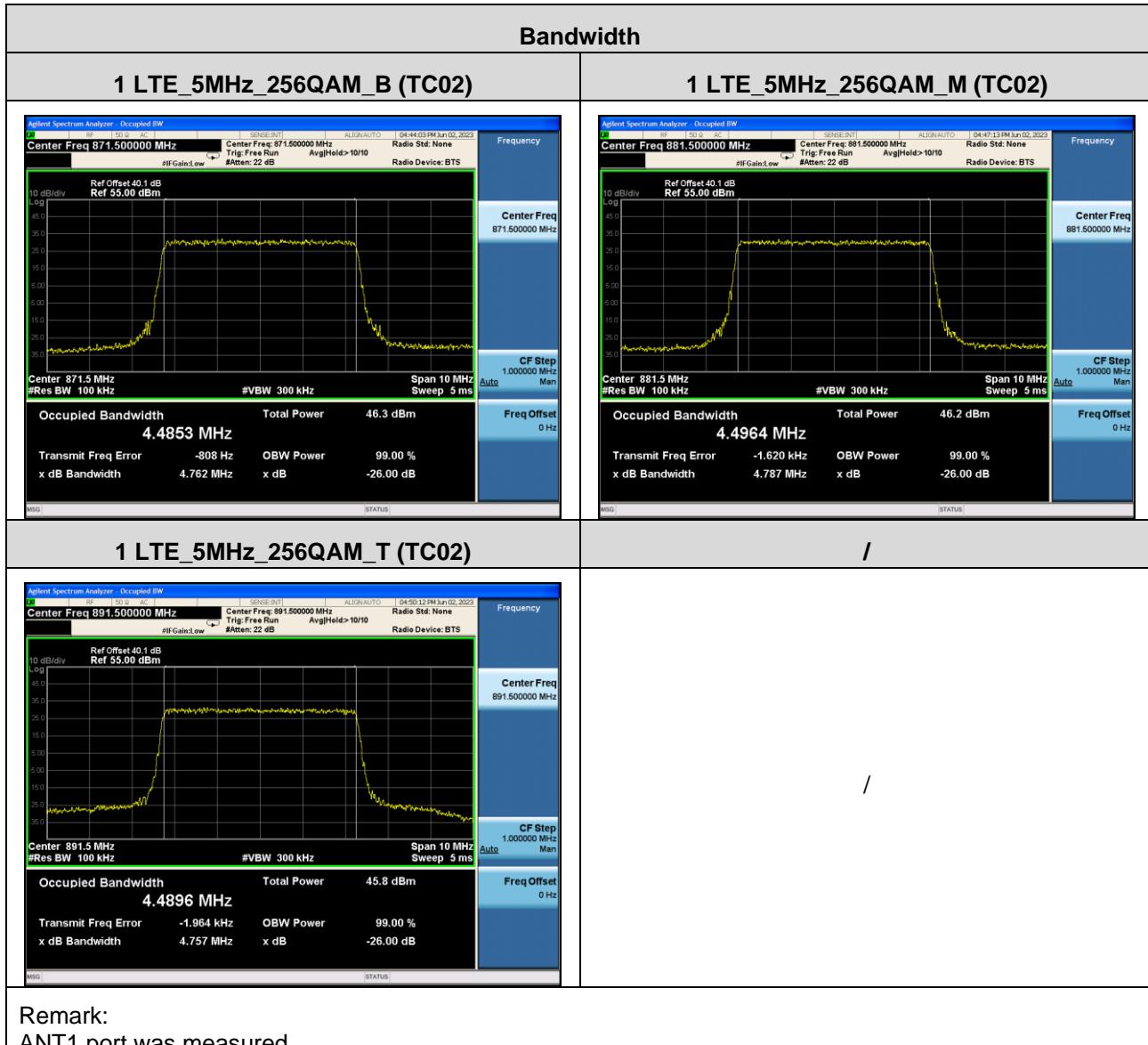


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



SGS-CSTC Standards Technical Services Co., Ltd. | No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | t (86-20) 82155555 | f (86-20) 82075058 | www.sgsgroup.com.cn
Guangzhou Branch EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | t (86-20) 82155555 | f (86-20) 82075058 | sgs.china@sgs.com

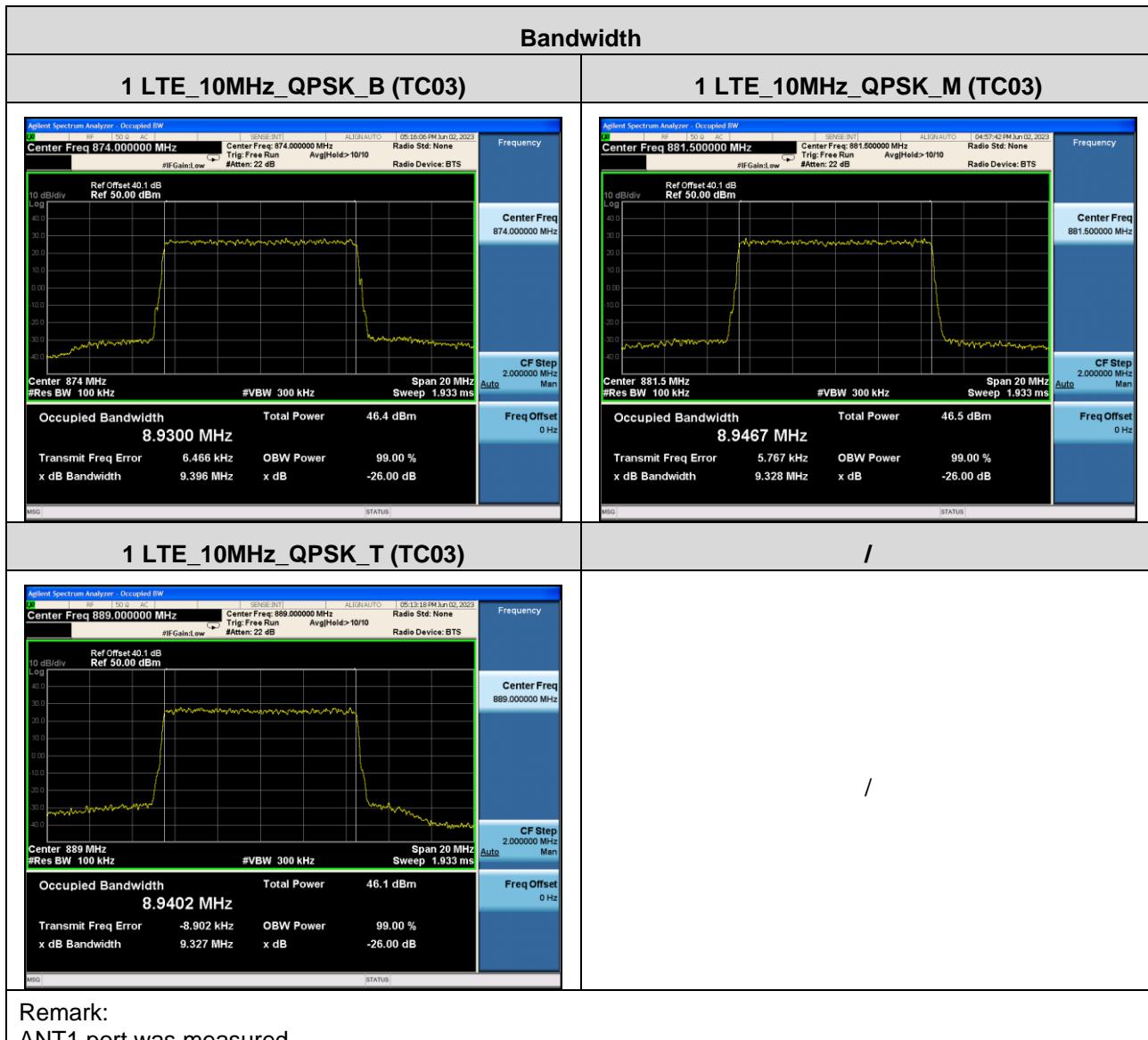


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



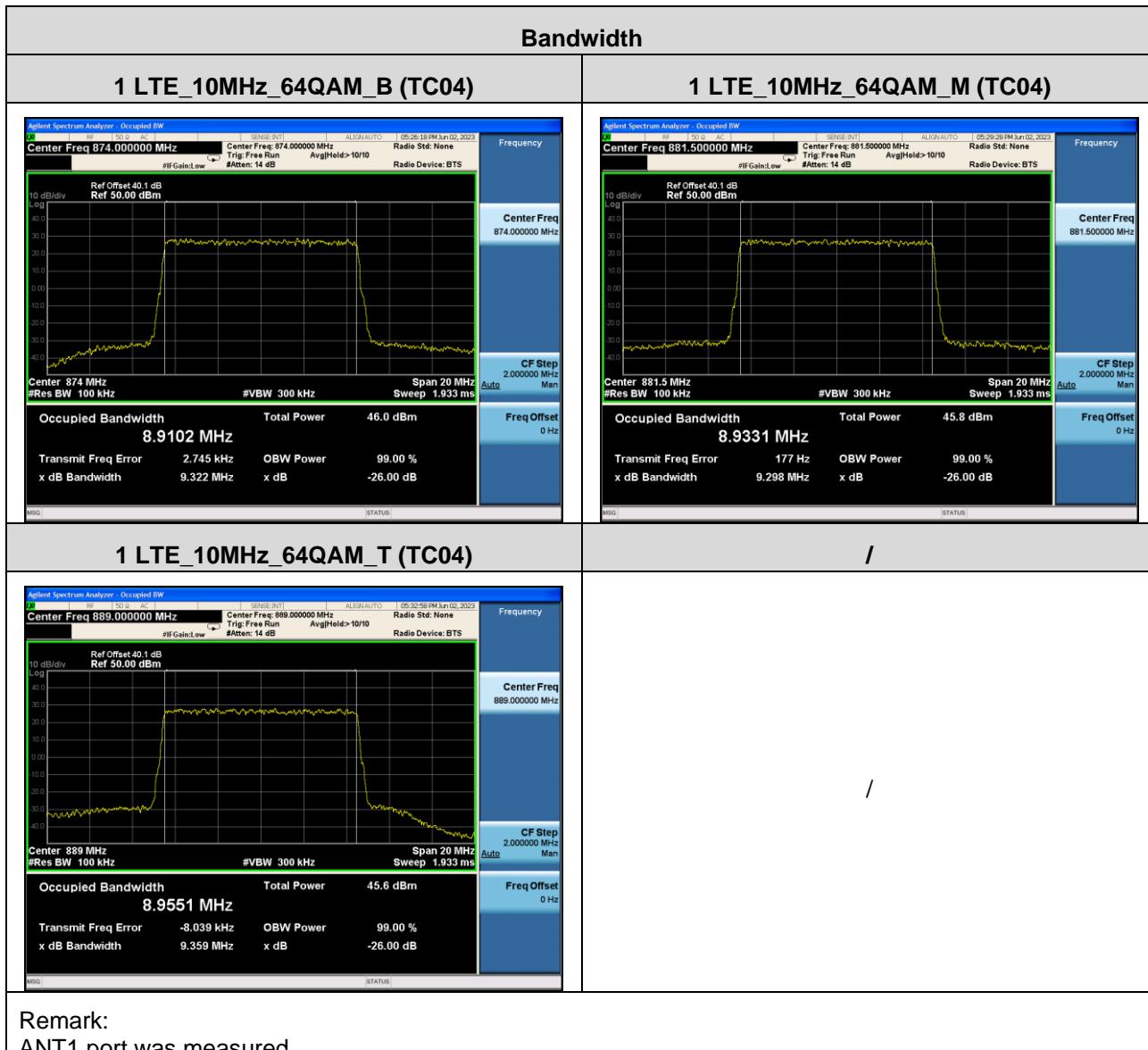
SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com



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

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

SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

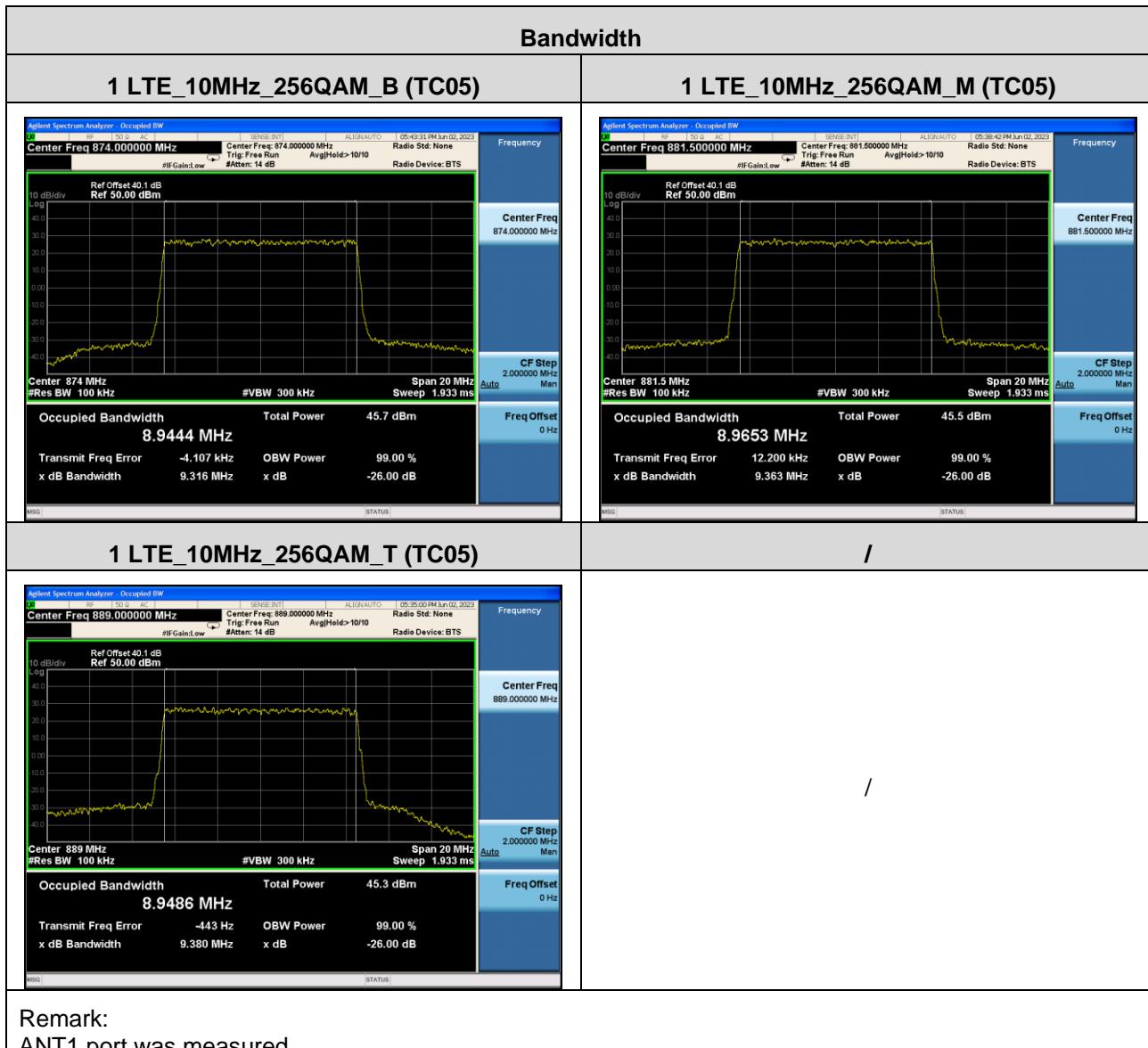


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

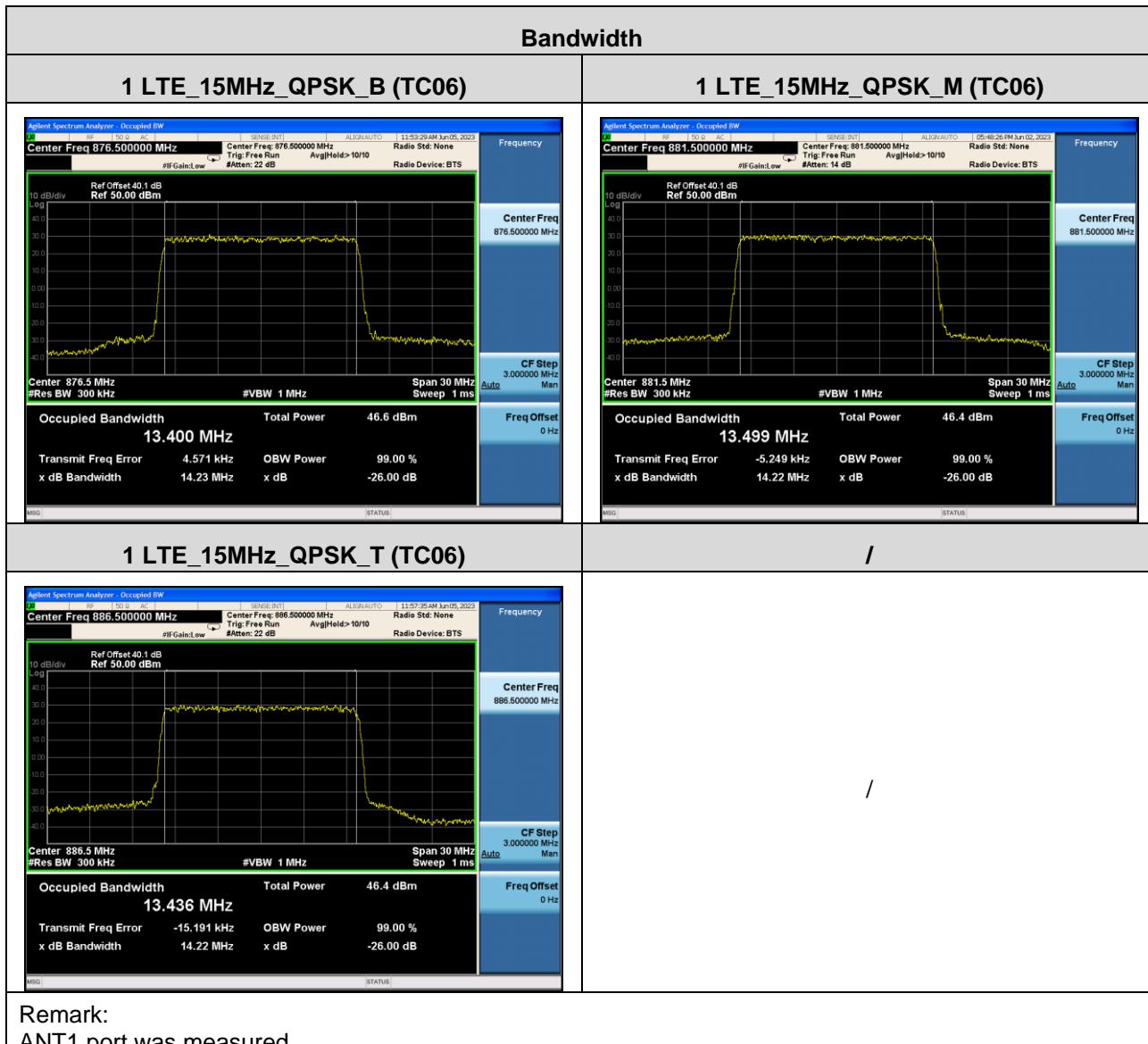


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

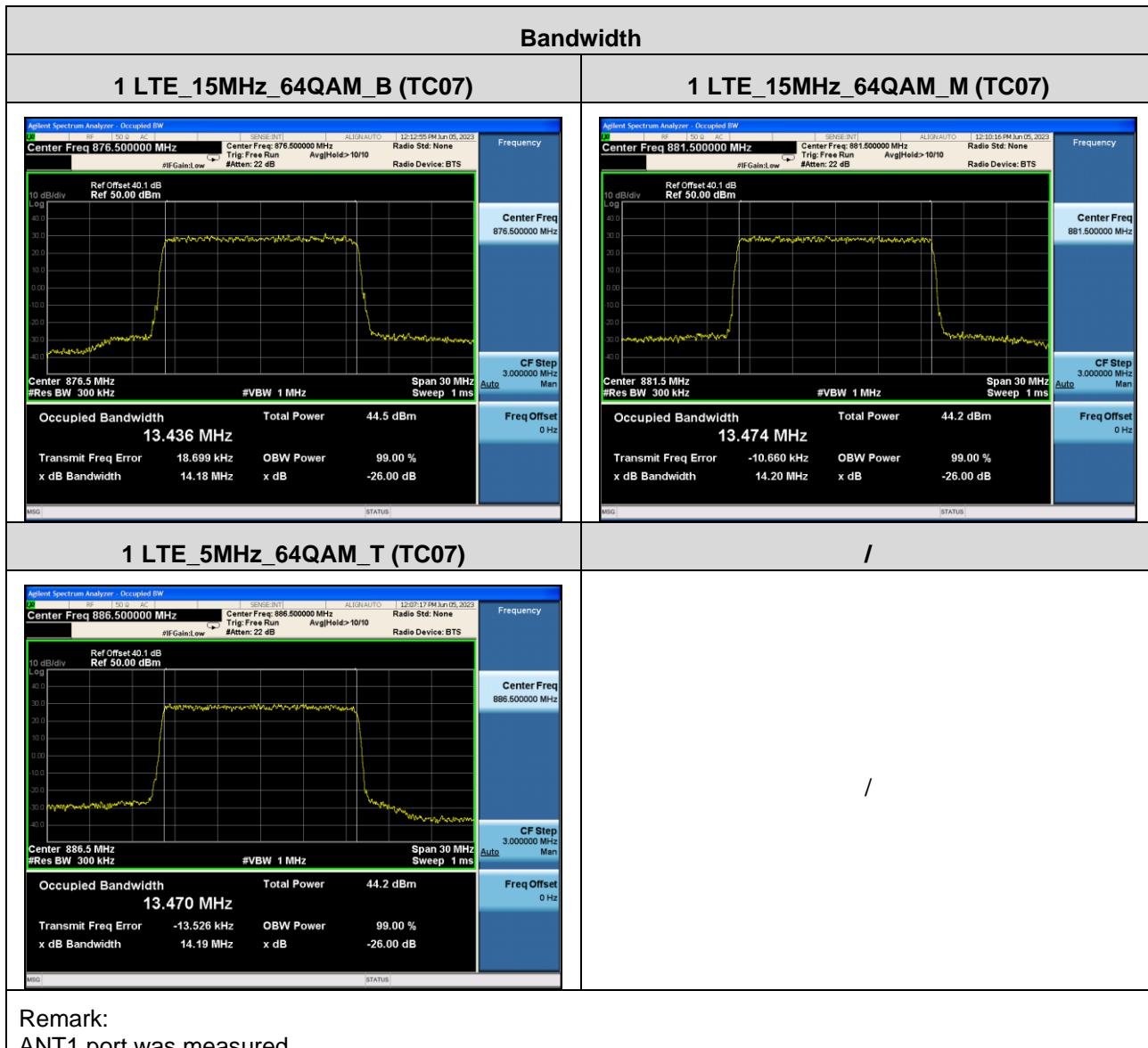


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
 Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

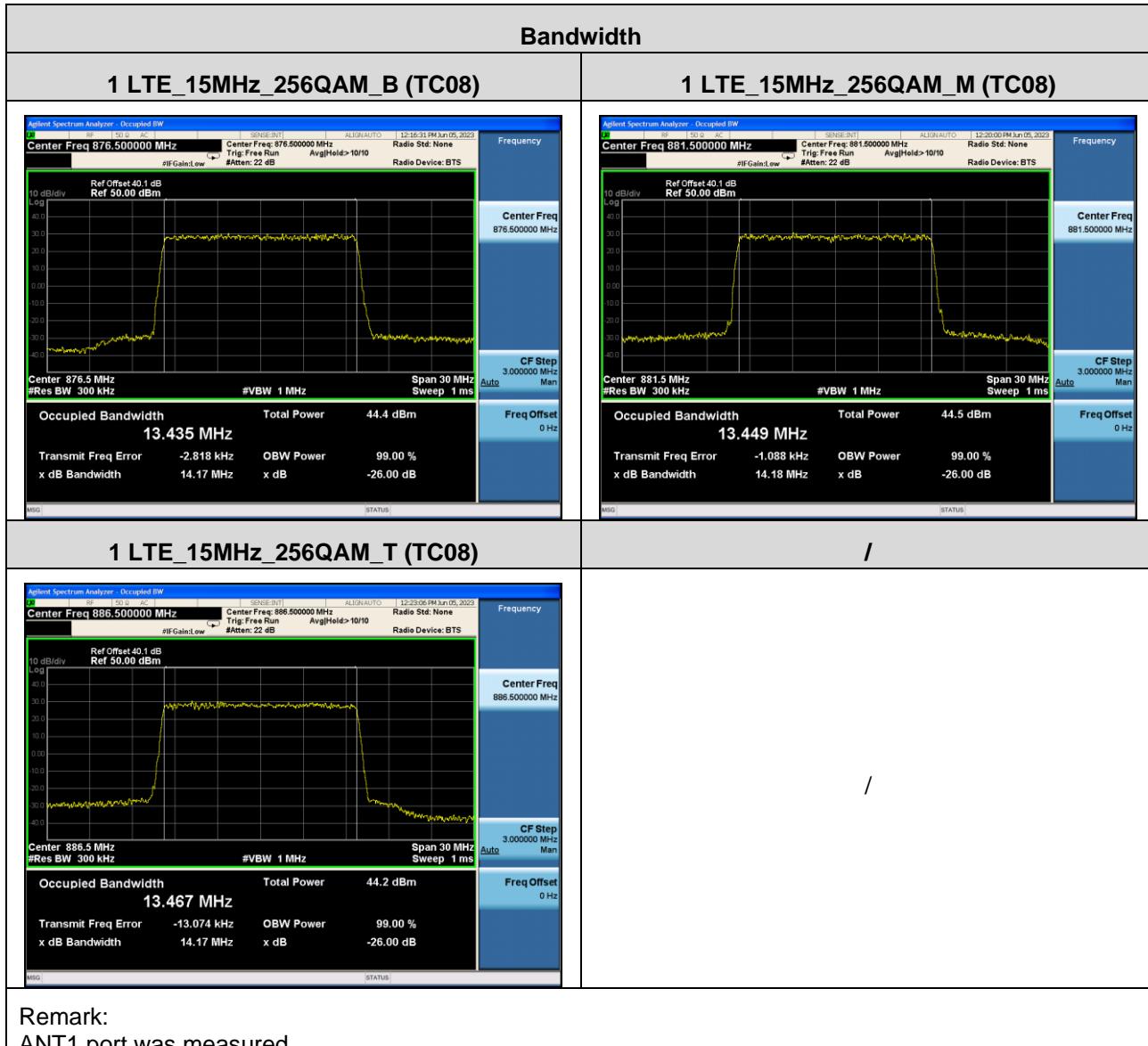


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

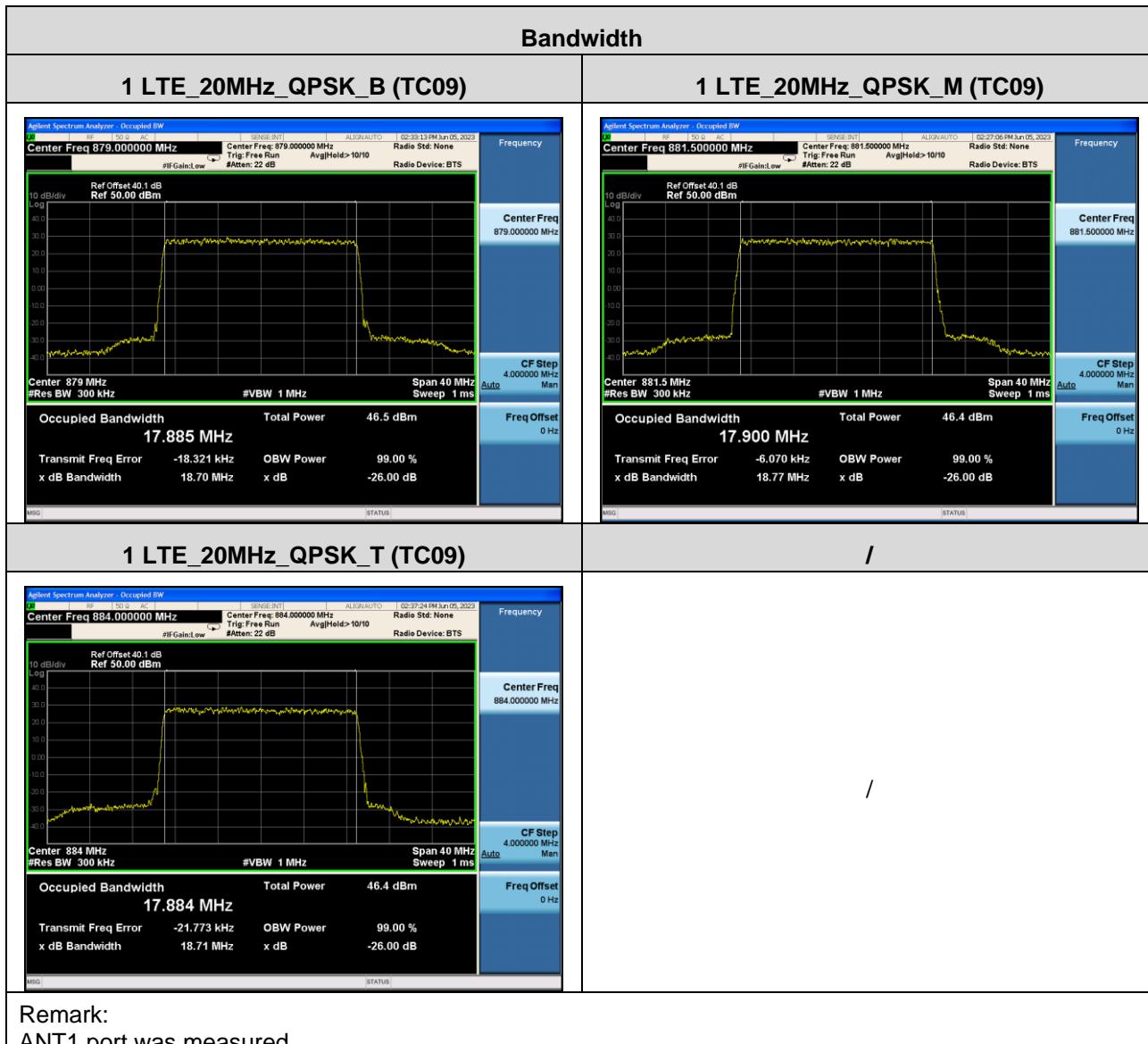


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

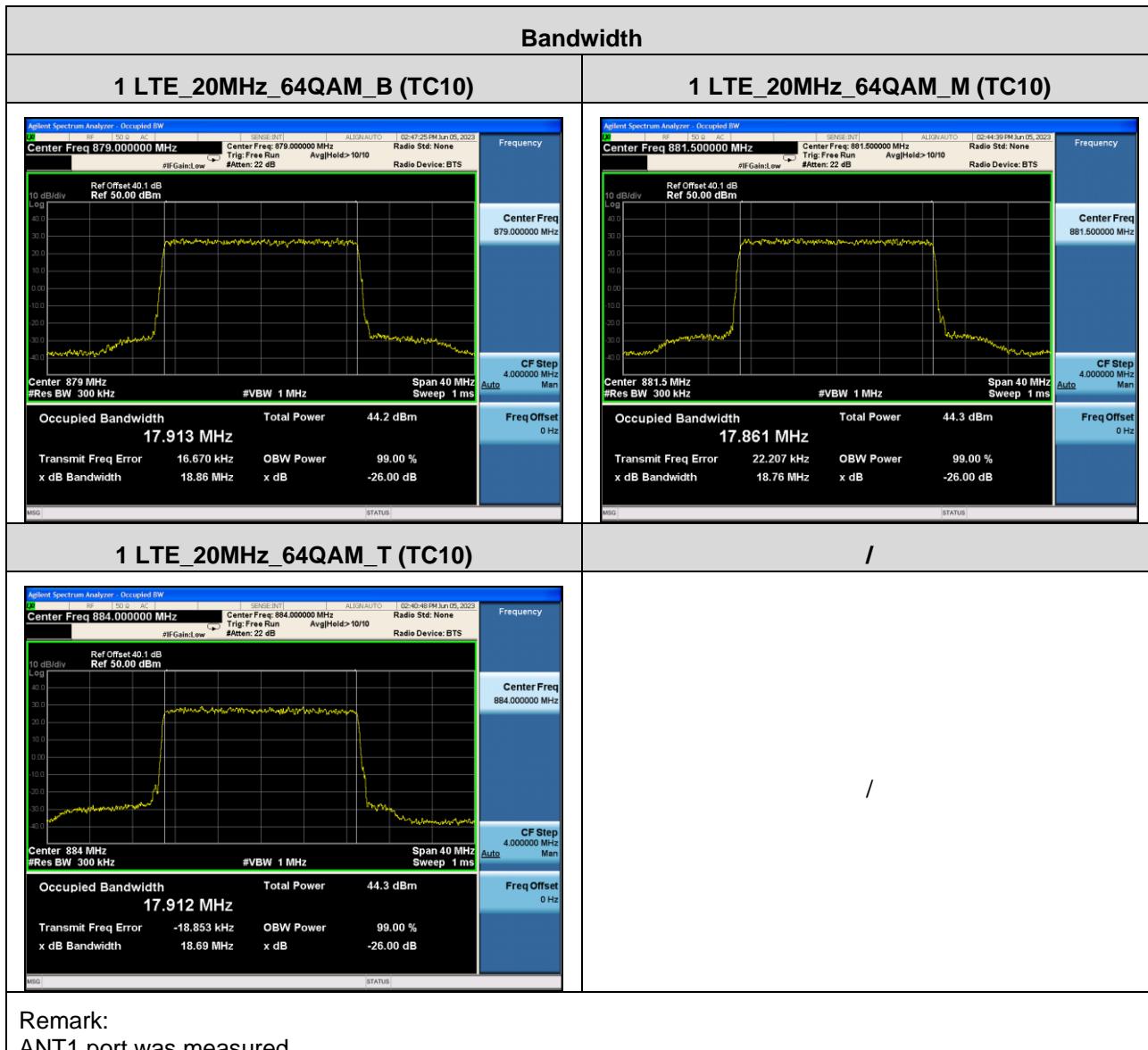


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

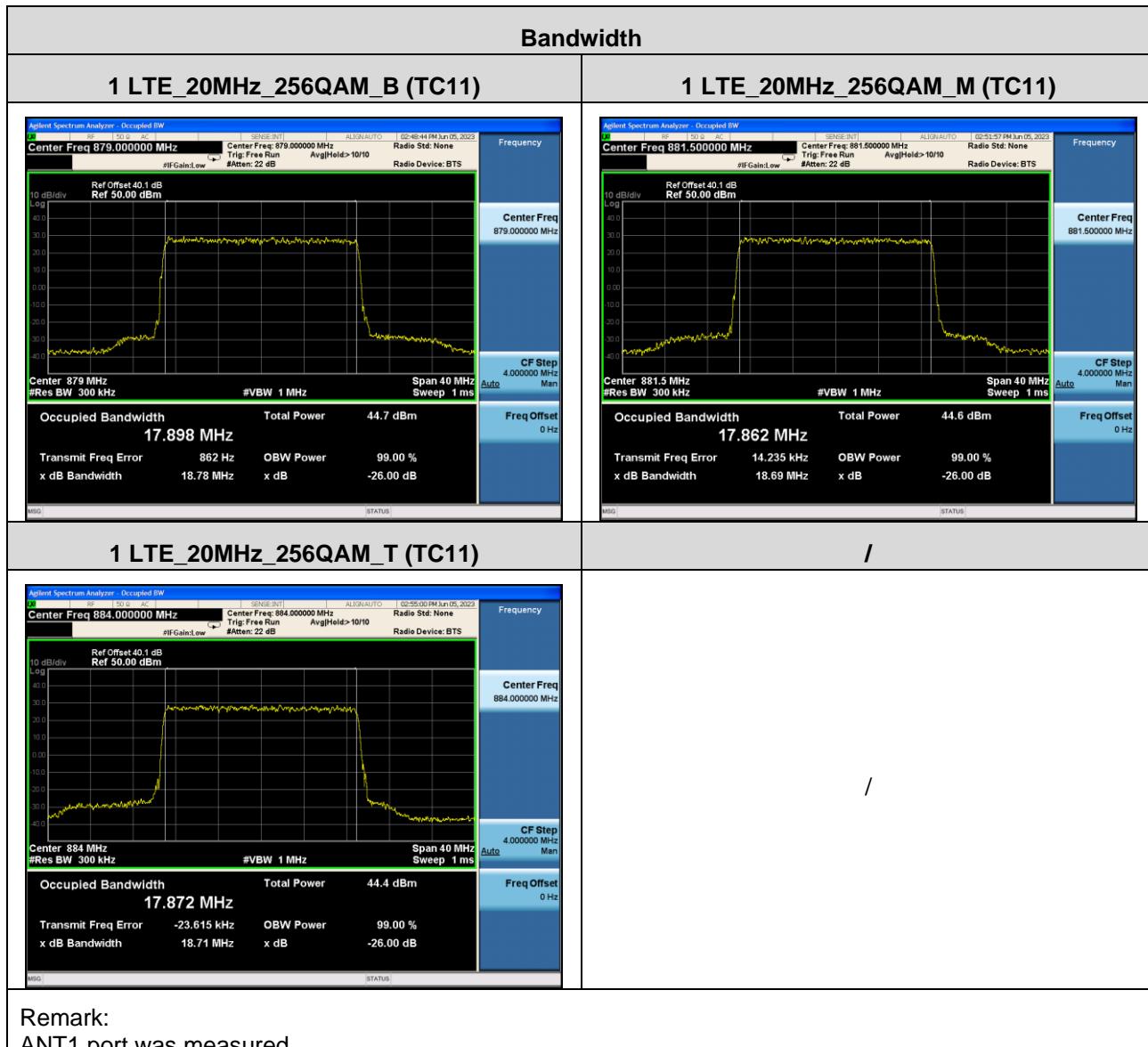


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
 Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

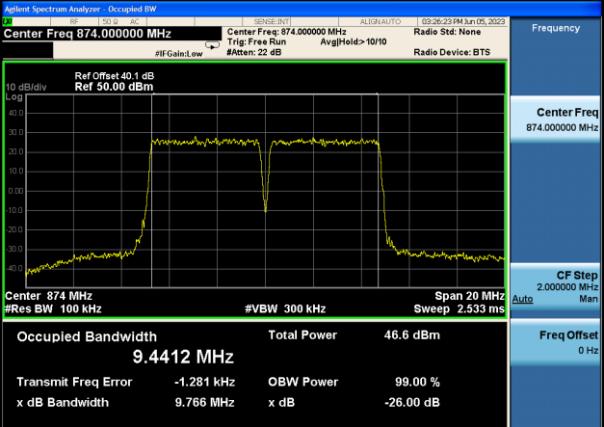
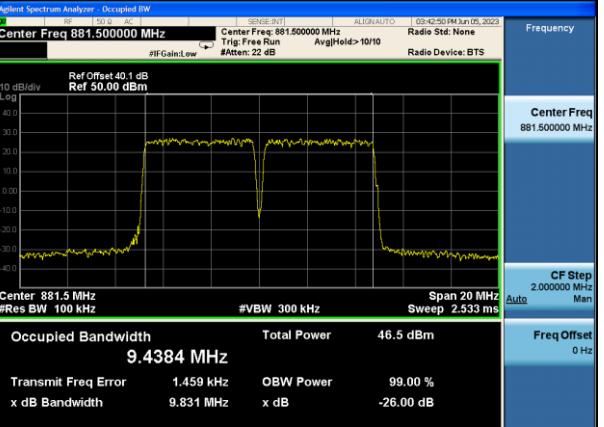
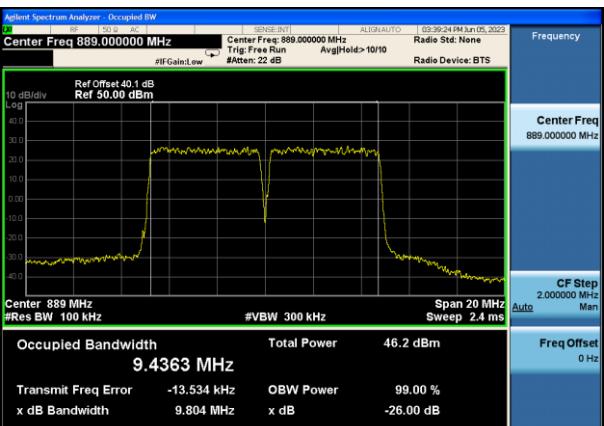


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

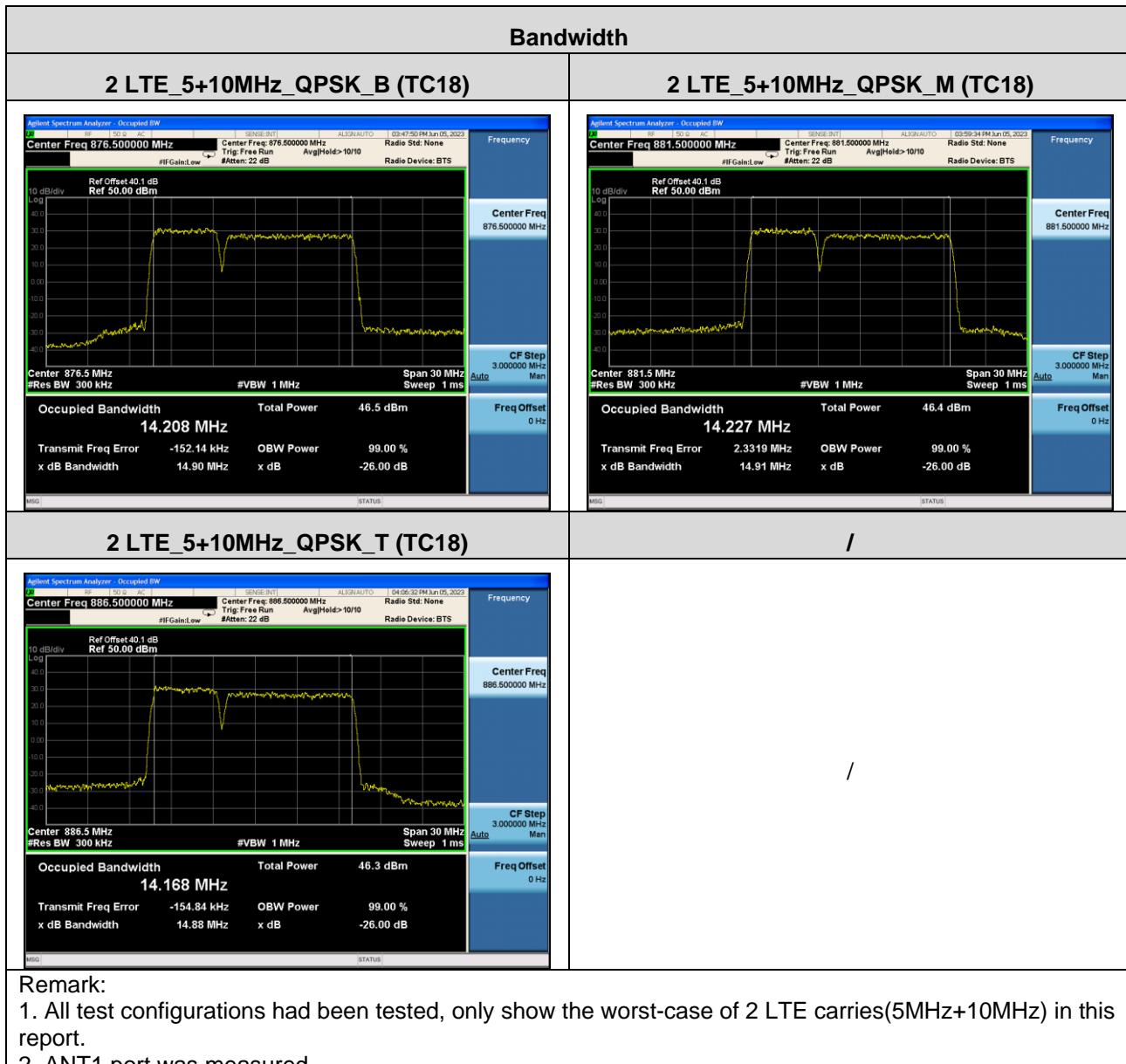
Bandwidth	
2 LTE_5+5MHz_QPSK_B (TC12)	2 LTE_5+5MHz_QPSK_M (TC12)
 <p>Agilent Spectrum Analyzer - Decoupled BW</p> <p>Center Freq 874.000000 MHz</p> <p>Ref Offset 40.1 dB</p> <p>Ref 50.00 dBm</p> <p>CF Step 2,000000 MHz</p> <p>Auto</p> <p>Frequency</p> <p>Center Freq 874.000000 MHz</p> <p>CF Step 2,000000 MHz</p> <p>Auto</p> <p>Frequency</p> <p>Occupied Bandwidth 9.4412 MHz</p> <p>Total Power 46.6 dBm</p> <p>Freq Offset 0 Hz</p> <p>Transmit Freq Error -1.281 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.766 MHz</p> <p>x dB -26.00 dB</p>	 <p>Agilent Spectrum Analyzer - Decoupled BW</p> <p>Center Freq 881.500000 MHz</p> <p>Ref Offset 40.1 dB</p> <p>Ref 50.00 dBm</p> <p>CF Step 2,000000 MHz</p> <p>Auto</p> <p>Frequency</p> <p>Center Freq 881.500000 MHz</p> <p>CF Step 2,000000 MHz</p> <p>Auto</p> <p>Frequency</p> <p>Occupied Bandwidth 9.4384 MHz</p> <p>Total Power 46.5 dBm</p> <p>Freq Offset 0 Hz</p> <p>Transmit Freq Error 1.459 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.831 MHz</p> <p>x dB -26.00 dB</p>
2 LTE_5+5MHz_QPSK_T (TC12)	/
 <p>Agilent Spectrum Analyzer - Decoupled BW</p> <p>Center Freq 889.000000 MHz</p> <p>Ref Offset 40.1 dB</p> <p>Ref 50.00 dBm</p> <p>CF Step 2,000000 MHz</p> <p>Auto</p> <p>Frequency</p> <p>Center Freq 889.000000 MHz</p> <p>CF Step 2,000000 MHz</p> <p>Auto</p> <p>Frequency</p> <p>Occupied Bandwidth 9.4363 MHz</p> <p>Total Power 46.2 dBm</p> <p>Freq Offset 0 Hz</p> <p>Transmit Freq Error -13.534 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.804 MHz</p> <p>x dB -26.00 dB</p>	/
Remark: 1. All test configurations had been tested, only show the worst-case for 2 LTE carries(5MHz+5MHz) in this report. 2. ANT1 port was measured.	



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

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

SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

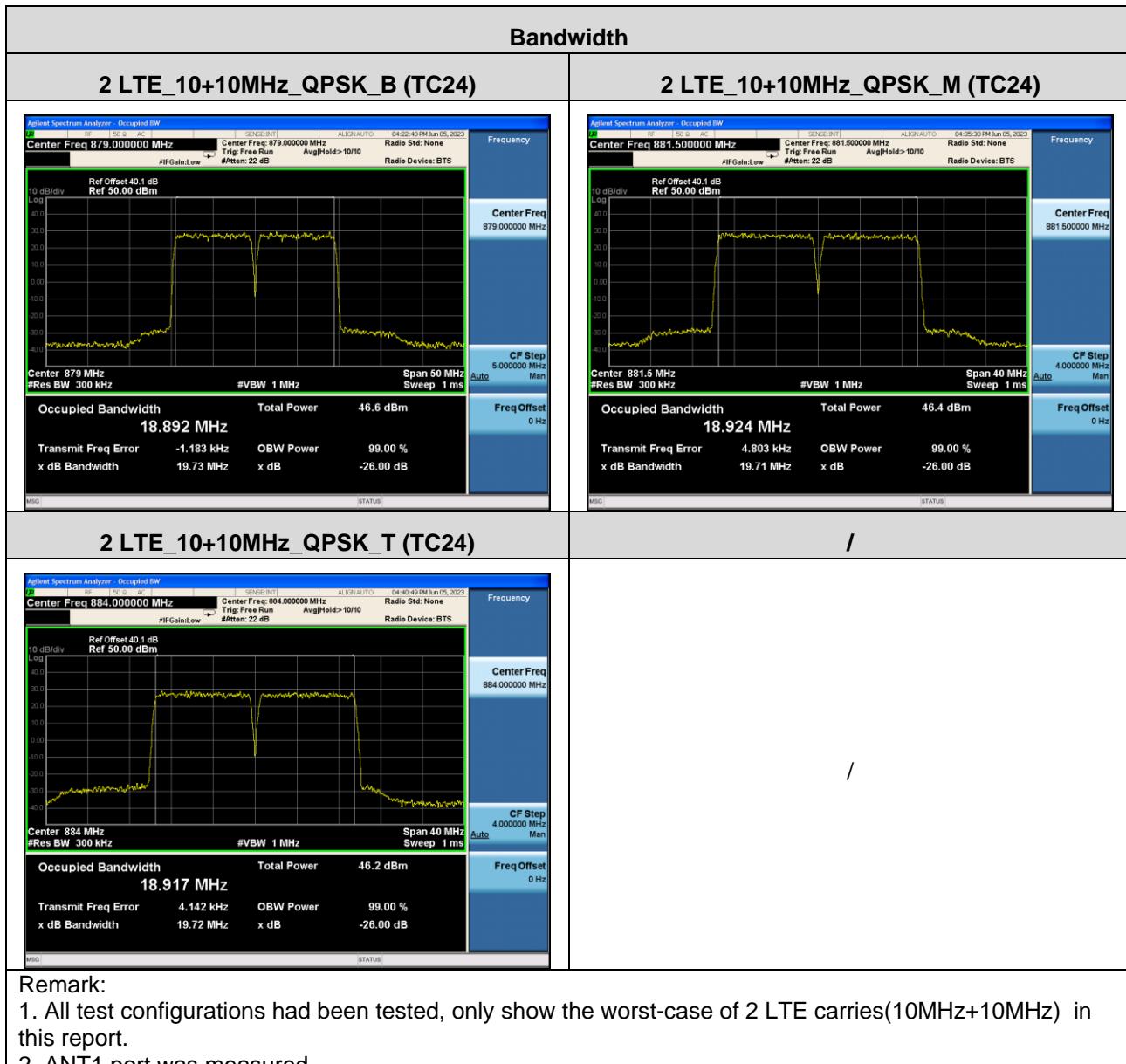


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

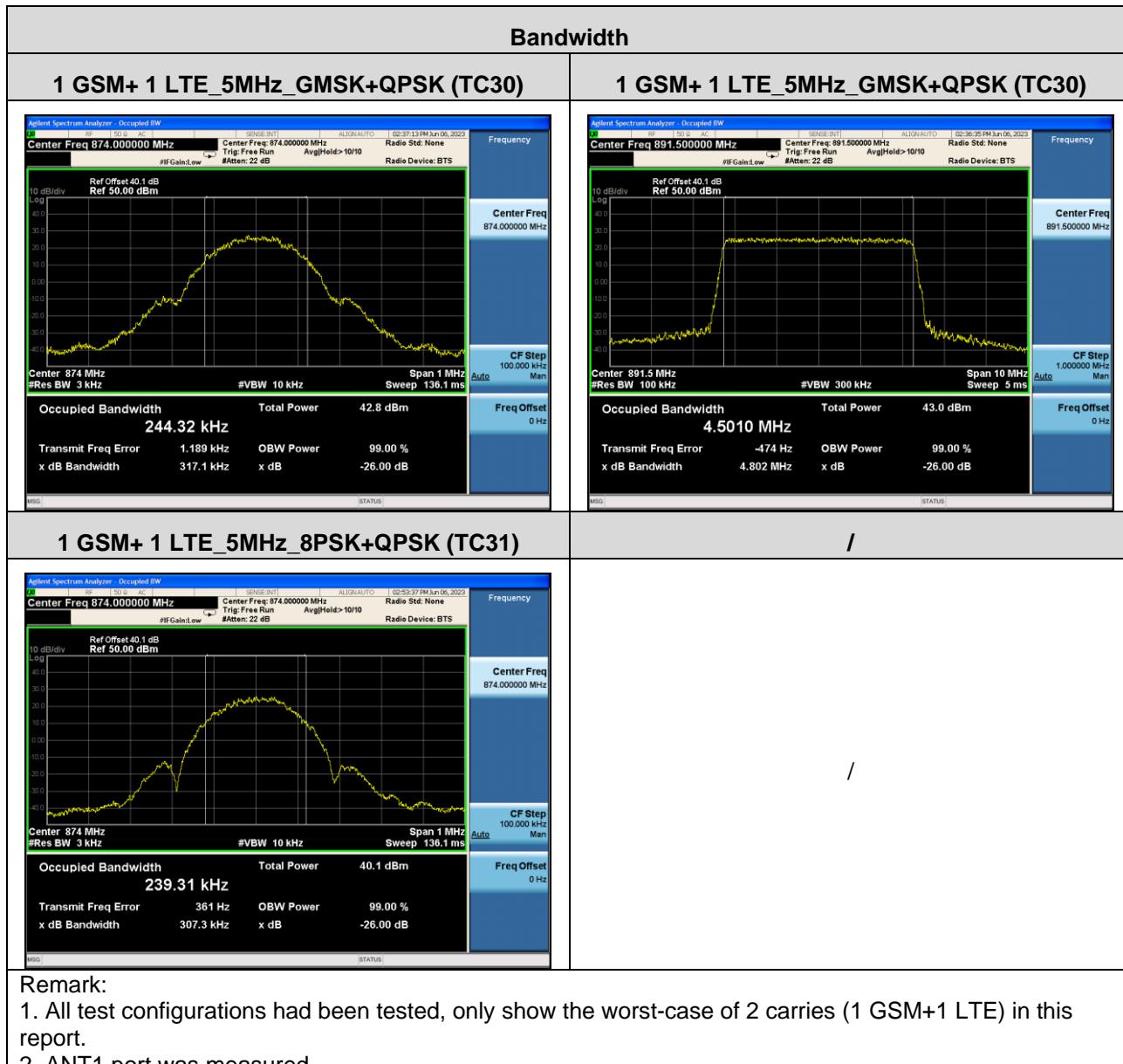


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

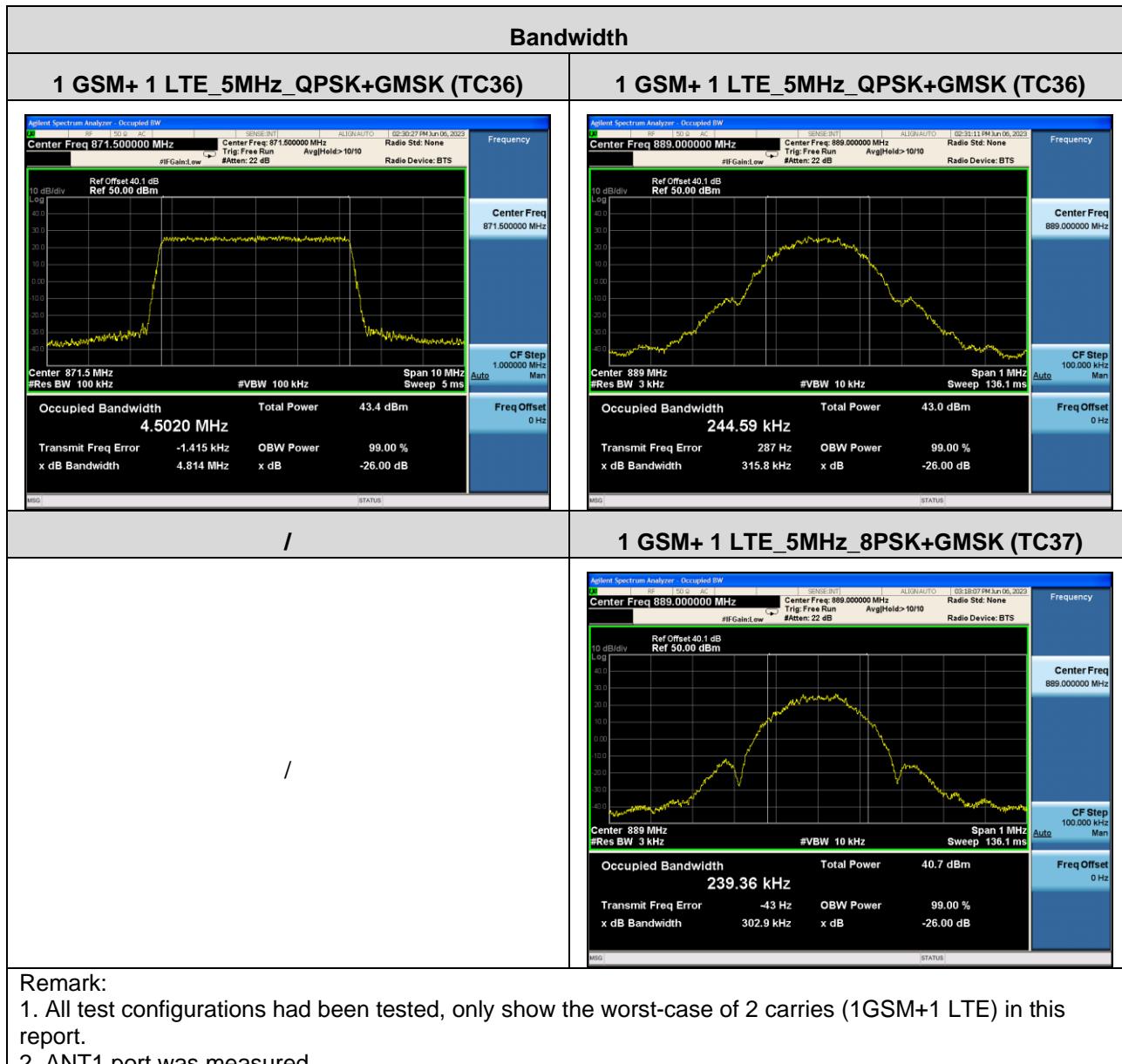


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-20) 8307 1443, or email: CN_Doccheck@sgs.com



SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kexu Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com


Remark:

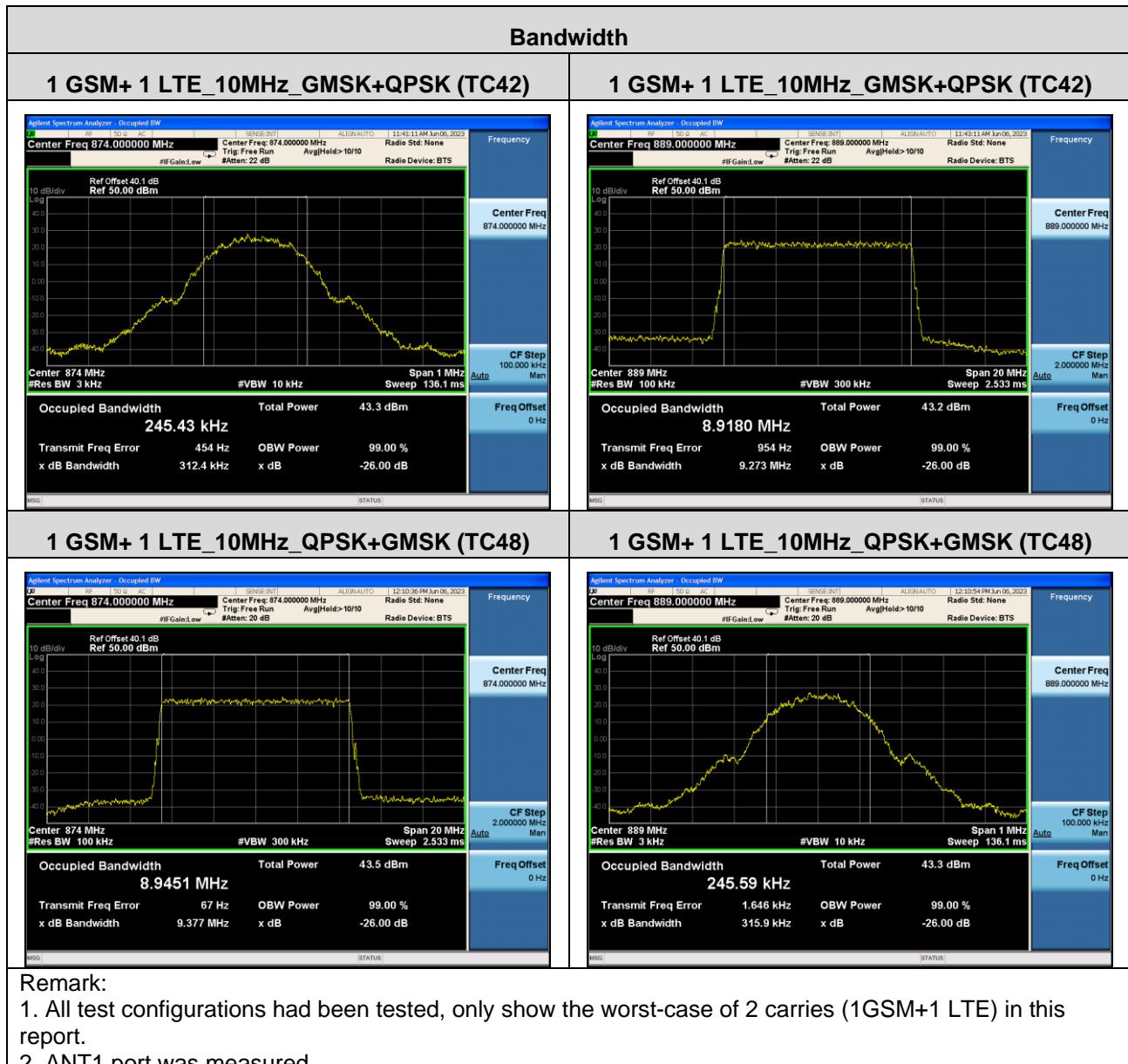
1. All test configurations had been tested, only show the worst-case of 2 carries (1GSM+1 LTE) in this report.
2. ANT1 port was measured.



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

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

SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com


Remark:

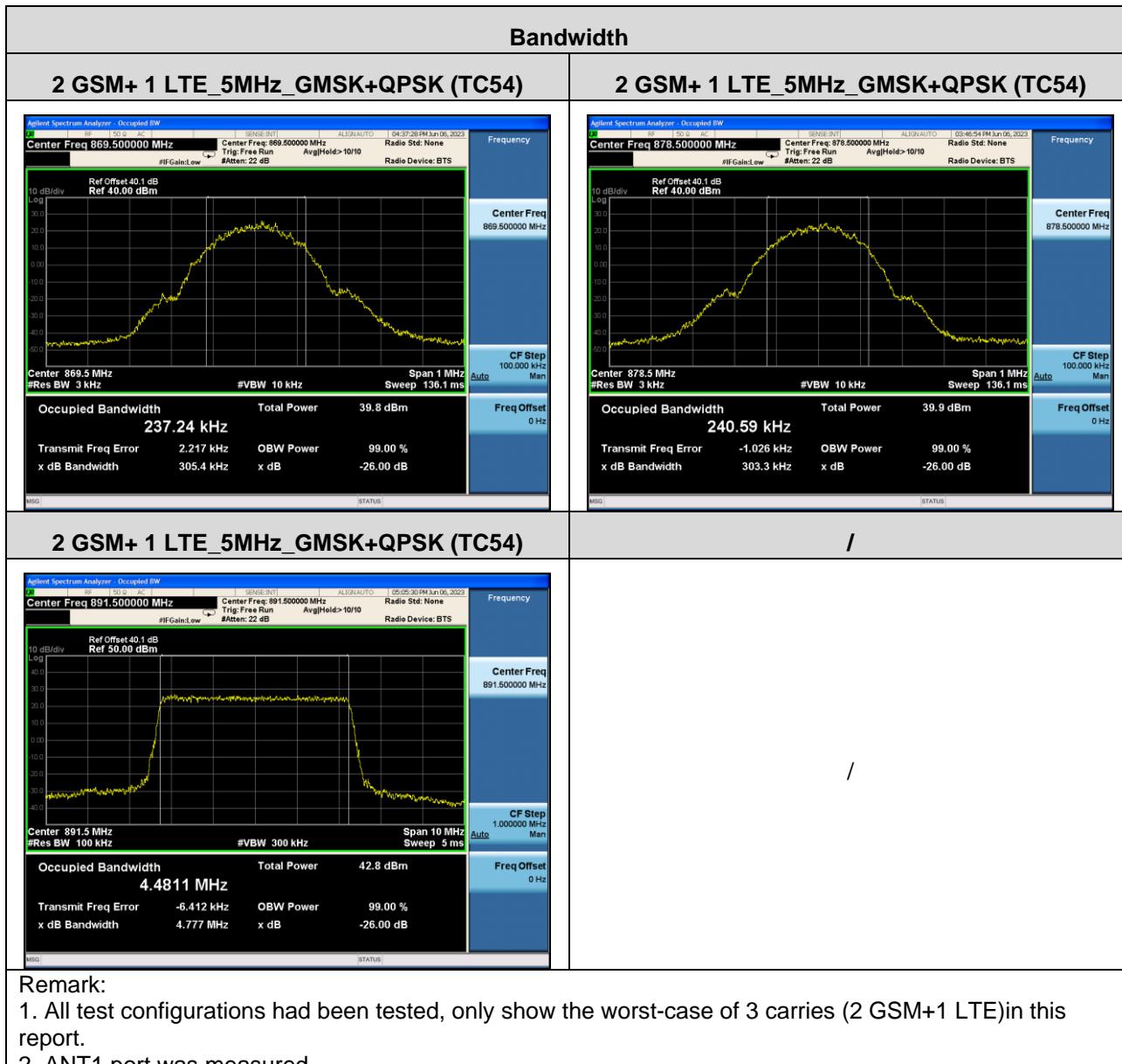
1. All test configurations had been tested, only show the worst-case of 2 carries (1GSM+1 LTE) in this report.
2. ANT1 port was measured.



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

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

SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com



Remark:

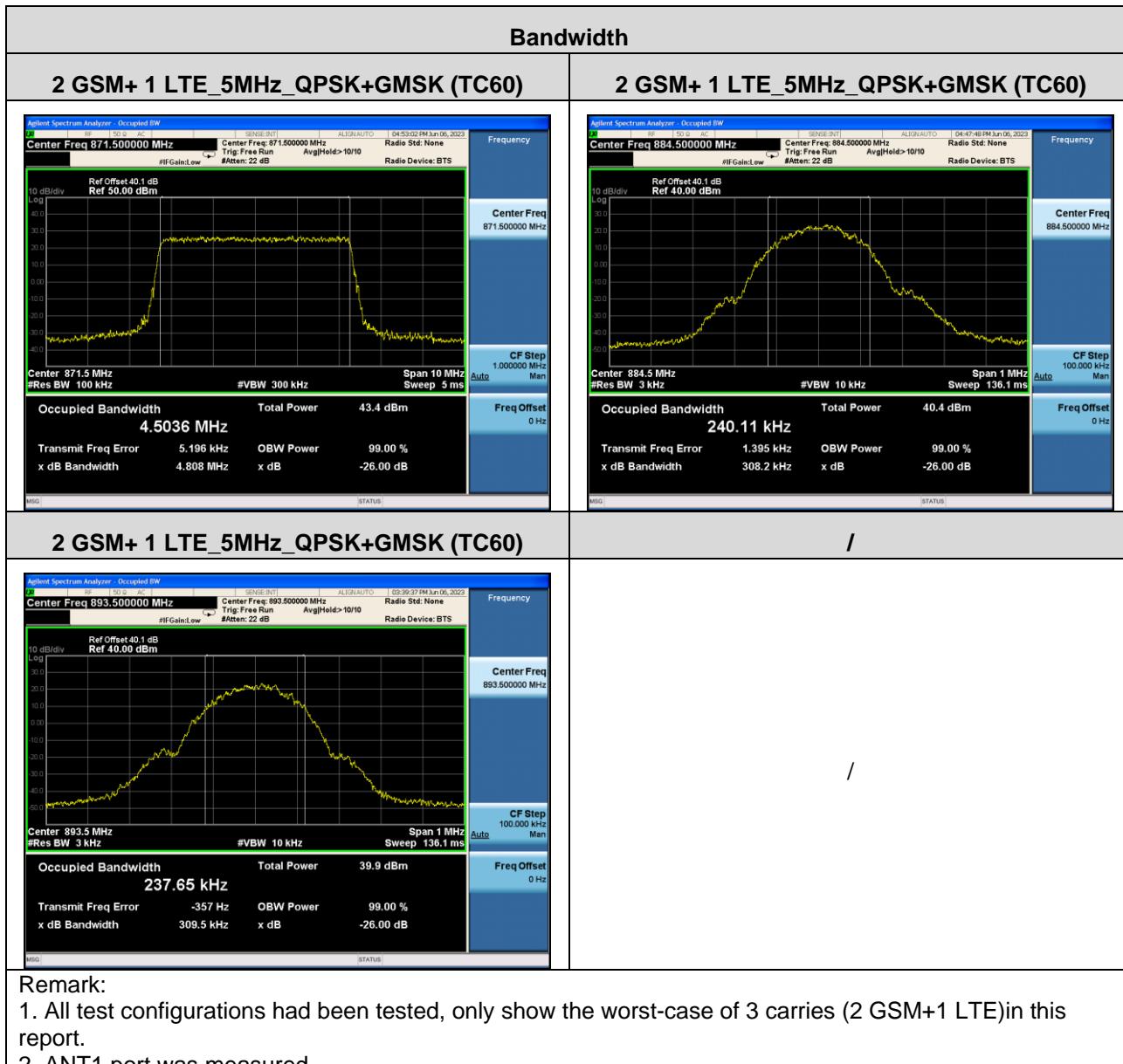
- REMARK:

 1. All test configurations had been tested, only show the worst-case of 3 carries (2 GSM+1 LTE) in this report.
 2. ANT1 port was measured.

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>, and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Dокумент.aspx>. 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 relevant instructions. The Company's sole responsibility is to its Client and this document does not confer any rights to third parties in respect of any transaction from exercising all other rights and responsibilities under the transaction documents. This document cannot be reproduced except in full without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sas.com





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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn or email: CN_Doccheck@sgs.com



SGS-CSTC Standards Technical Services Co., Ltd., No.198 Kezhi Road, Scientific Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
Guangzhou Branch Testing Center EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com