



Appendix B.7

LTE Band 13



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

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

Effective (Isotropic) Radiated Power Output Data

Test Result

Ant31:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.95	14.6	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.20	14.85	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.90	14.55	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.96	13.61	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.77	14.42	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.74	14.39	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.42	14.07	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.66	13.31	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.44	14.09	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.72	14.37	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.41	14.06	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.65	13.3	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.09	13.74	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.38	14.03	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.91	13.56	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.09	12.74	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.90	13.55	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.01	13.66	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.74	13.39	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.63	12.28	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.71	13.36	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.94	13.59	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.69	13.34	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.63	12.28	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	22.22	12.87	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	22.40	13.05	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	22.07	12.72	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	21.10	11.75	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	22.21	12.86	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	22.44	13.09	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	22.11	12.76	34.77	PASS



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

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



Band13	5MHz	64QAM	23230	25RB#0	21.16	11.81	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	22.17	12.82	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	22.41	13.06	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	22.17	12.82	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	21.14	11.79	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.04	14.69	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.16	14.81	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.97	14.62	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.01	13.66	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.18	13.83	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.34	13.99	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.92	13.57	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.14	12.79	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	22.34	12.99	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	22.39	13.04	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	22.23	12.88	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	21.28	11.93	34.77	PASS



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

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

Peak-to-Average Ratio(CCDF)

Test Result

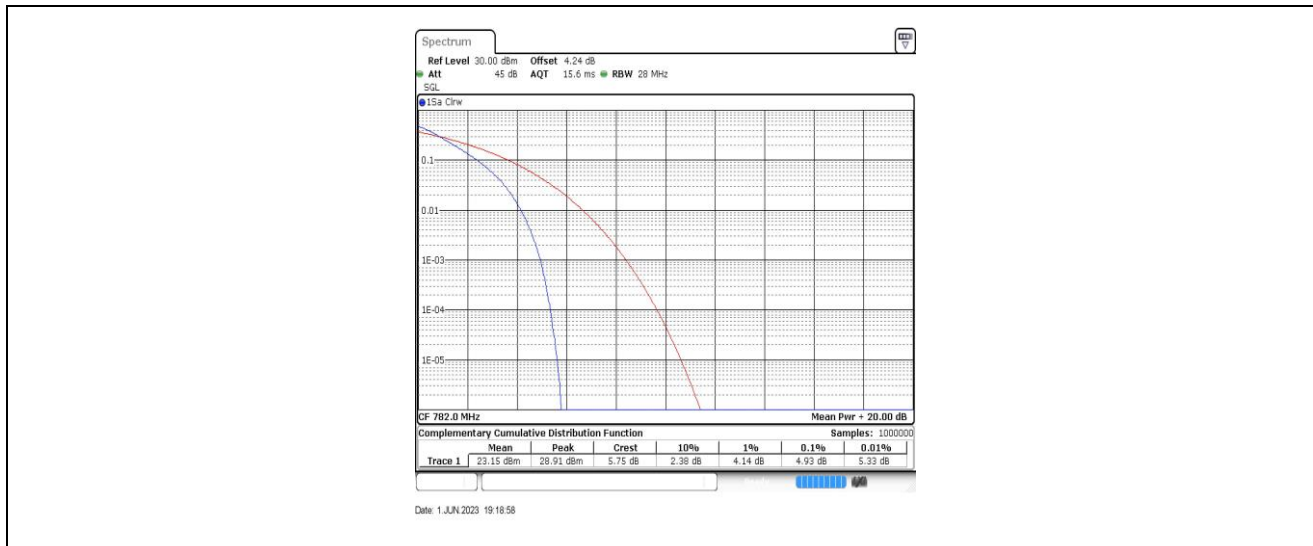
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	4.93	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.59	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	5.86	13	PASS



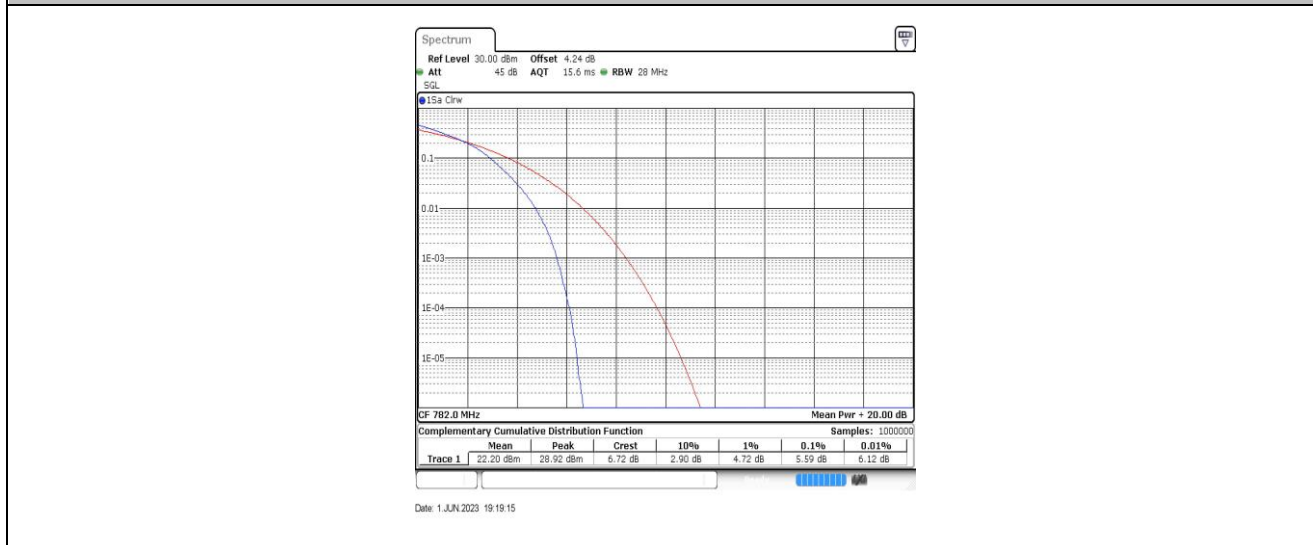
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

Test Graphs



Band13-10MHz-QPSK-23230-50RB#0

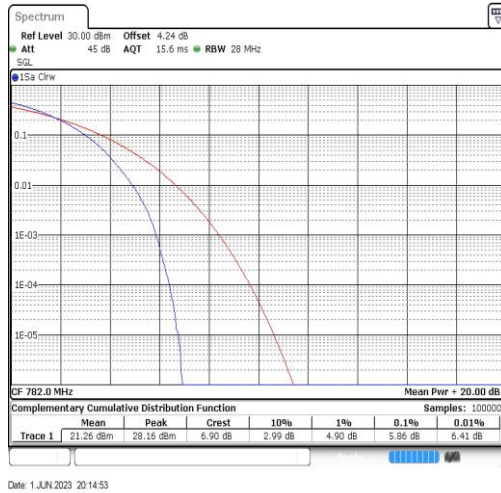


Band13-10MHz-16QAM-23230-50RB#0



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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Date: 1 JUN 2023 20:14:53

Band13-10MHz-64QAM-23230-50RB#0



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

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

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

Modulation Characteristics

Test Result

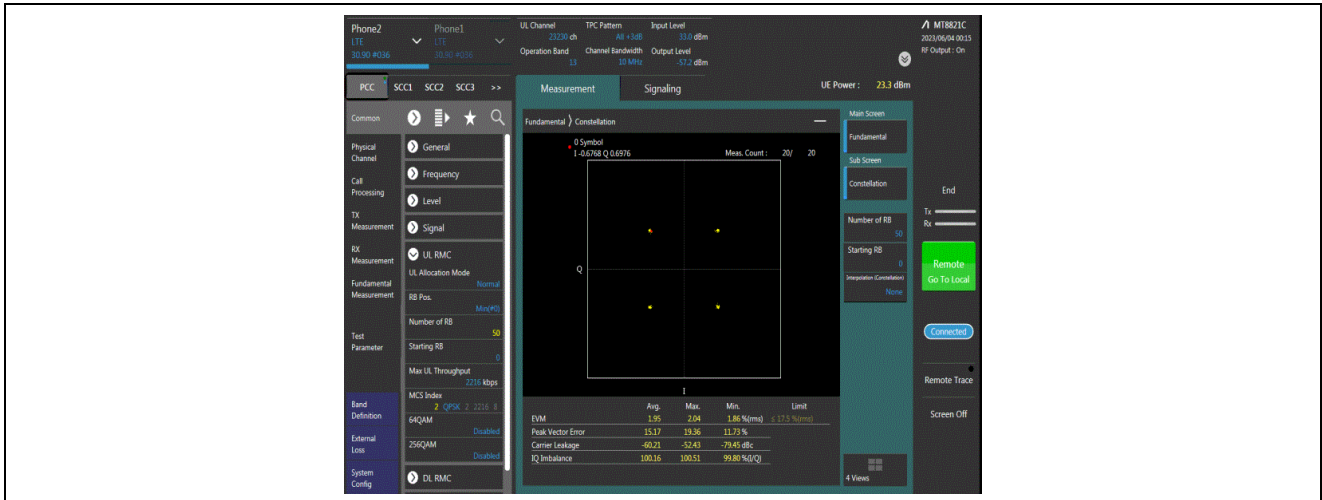
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band13	10MHz	QPSK	23230	50RB#0	PASS	PASS
Band13	10MHz	16QAM	23230	50RB#0	PASS	PASS
Band13	10MHz	64QAM	23230	50RB#0	PASS	PASS



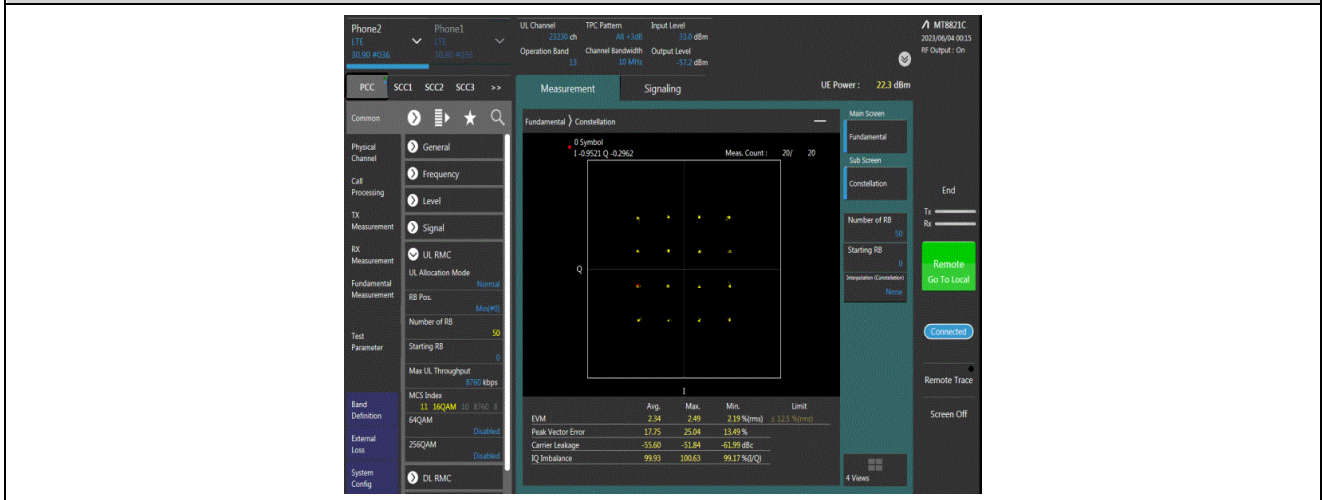
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

Test Graphs

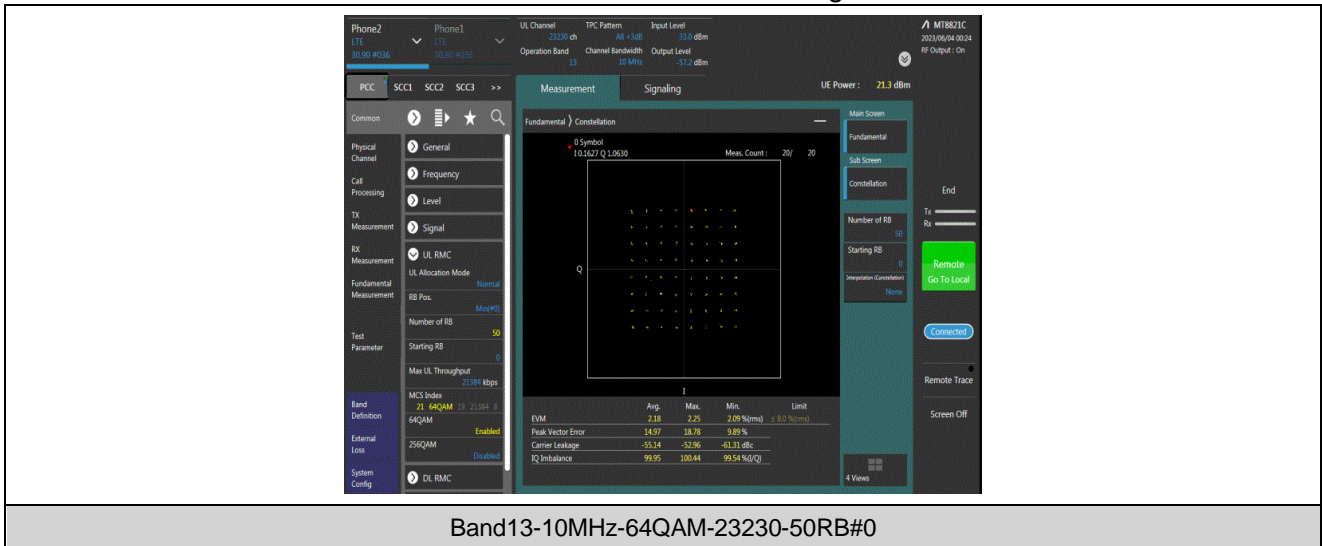


Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0





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

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

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

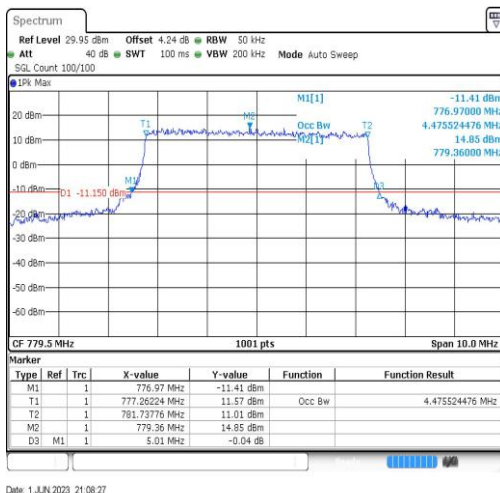
26dB Bandwidth and Occupied Bandwidth

Test Result

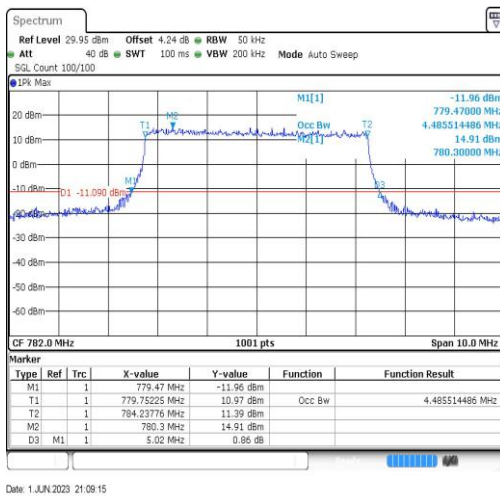
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.476	5.01	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.486	5.02	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.476	5.04	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.466	5.03	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.476	5.08	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.476	5.07	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.486	5.04	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.496	5.03	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.496	5.01	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.951	9.88	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.951	9.78	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.971	9.86	PASS



Test Graphs



Band13-5MHz-QPSK-23205-25RB#0-4.476



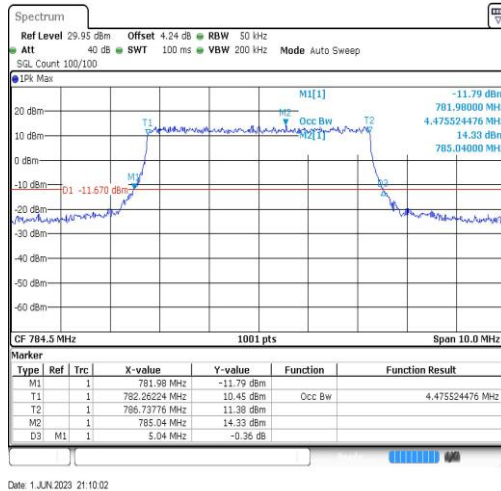
Band13-5MHz-QPSK-23230-25RB#0-4.486



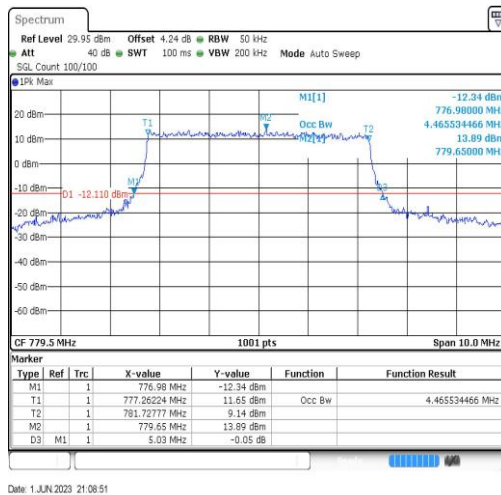
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

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

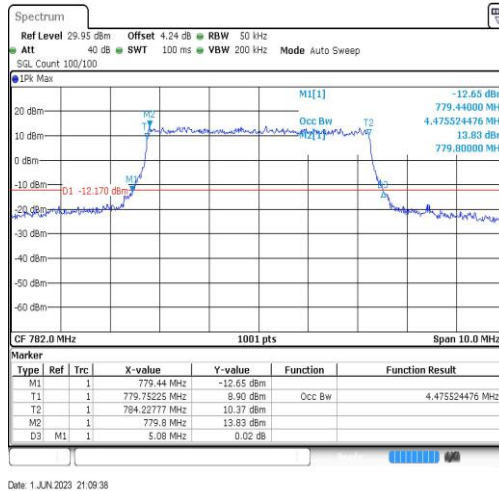


Band13-5MHz-QPSK-23255-25RB#0-4.476



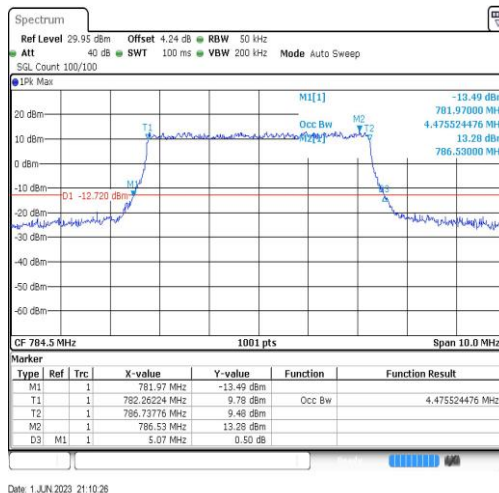
Band13-5MHz-16QAM-23205-25RB#0-4.466





Date: 1.JUN.2023 21:09:38

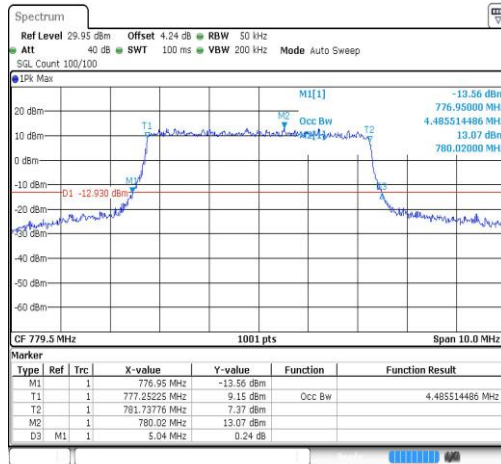
Band13-5MHz-16QAM-23230-25RB#0-4.476



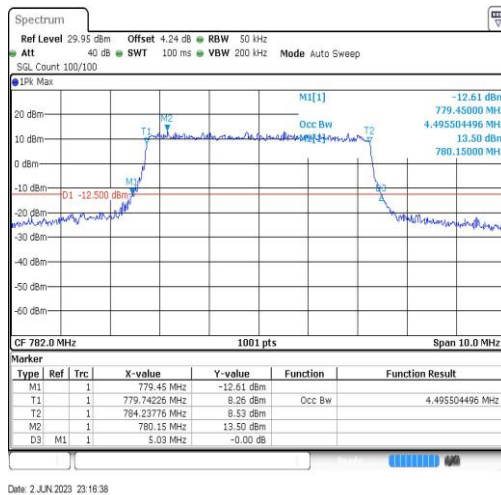
Date: 1.JUN.2023 21:10:26

Band13-5MHz-16QAM-23255-25RB#0-4.476





Band13-5MHz-64QAM-23205-25RB#0-4.486

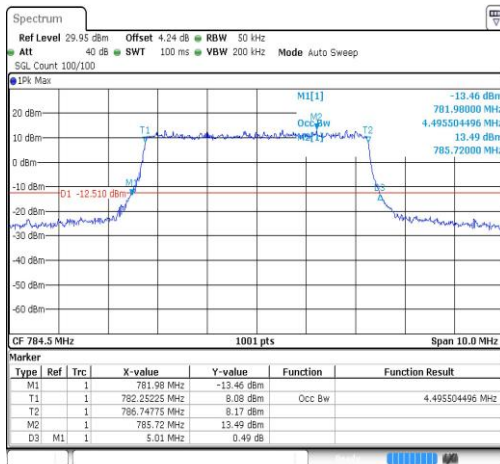


Band13-5MHz-64QAM-23230-25RB#0-4.496

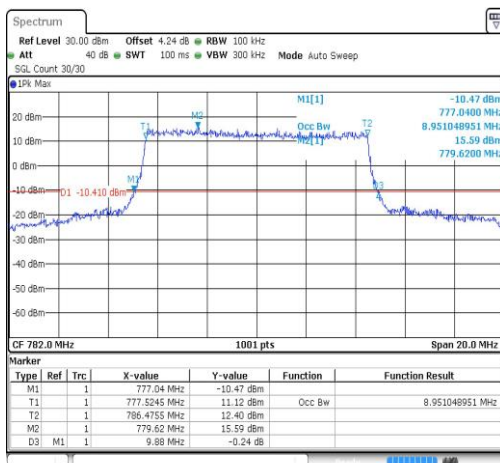


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Band13-5MHz-64QAM-23255-25RB#0-4.496

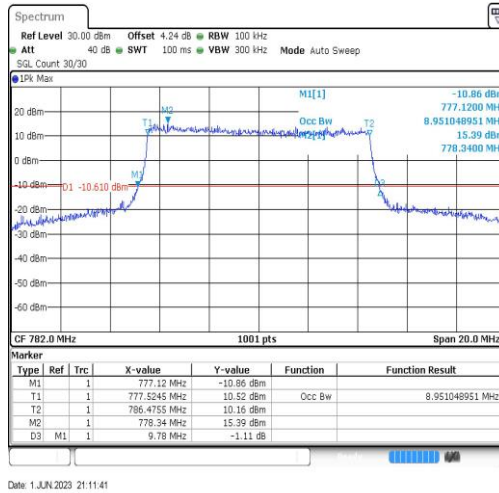


Band13-10MHz-QPSK-23230-50RB#0-8.951



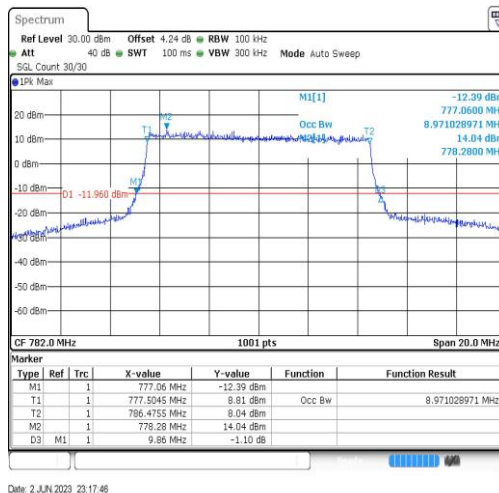
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Date: 1 JUN 2023 21:11:41

Band13-10MHz-16QAM-23230-50RB#0-8.951



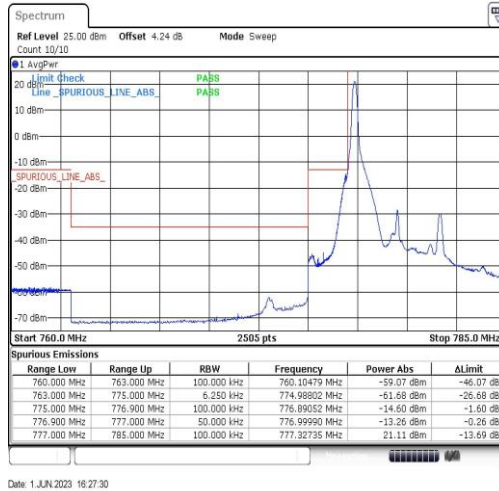
Date: 2 JUN 2023 23:17:46

Band13-10MHz-64QAM-23230-50RB#0-8.971

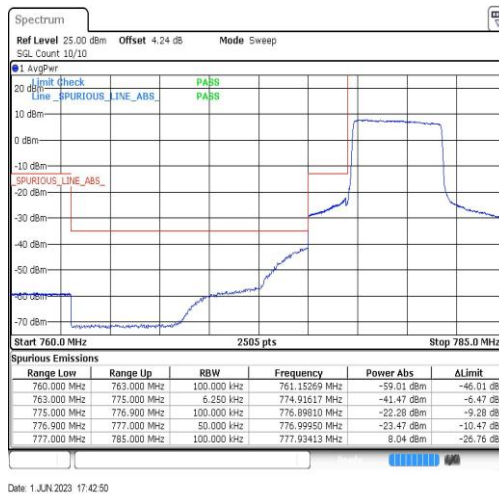


Band Edge

Test Graphs



Band13-5MHz-QPSK-23205-1RB#0

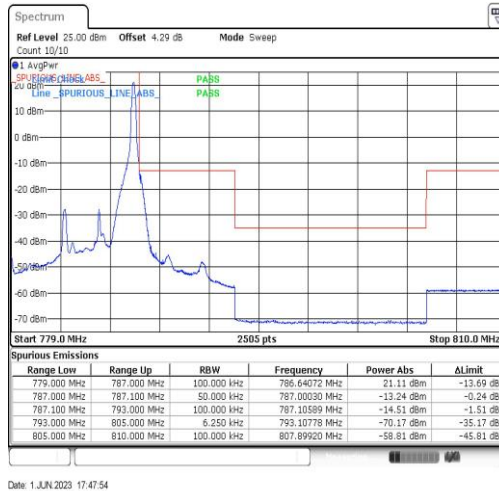


Band13-5MHz-QPSK-23205-25RB#0



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

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Date: 1.JUN.2023 17:47:54

Band13-5MHz-QPSK-23255-1RB#24



Date: 1.JUN.2023 17:48:44

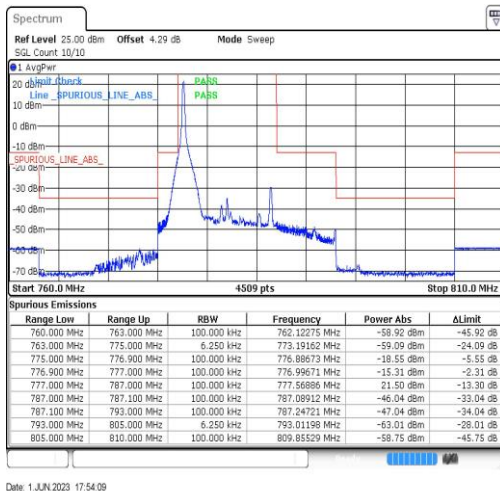
Band13-5MHz-QPSK-23255-25RB#0



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

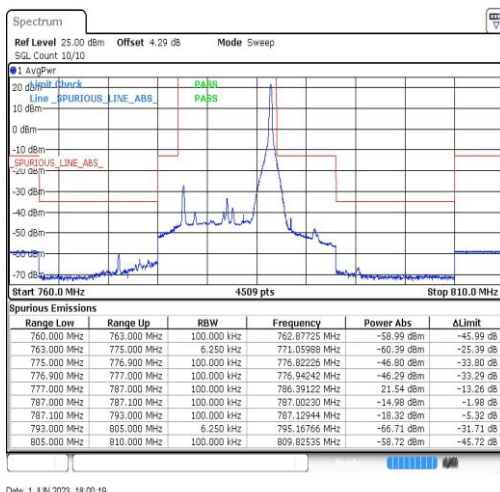
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Date: 1.JUN.2023 17:54:09

Band13-10MHz-QPSK-23230-1RB#0



Date: 1.JUN.2023 18:00:19

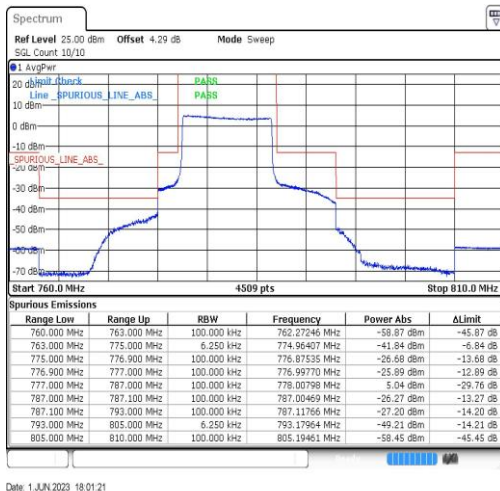
Band13-10MHz-QPSK-23230-1RB#49



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

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

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



Band13-10MHz-QPSK-23230-50RB#0



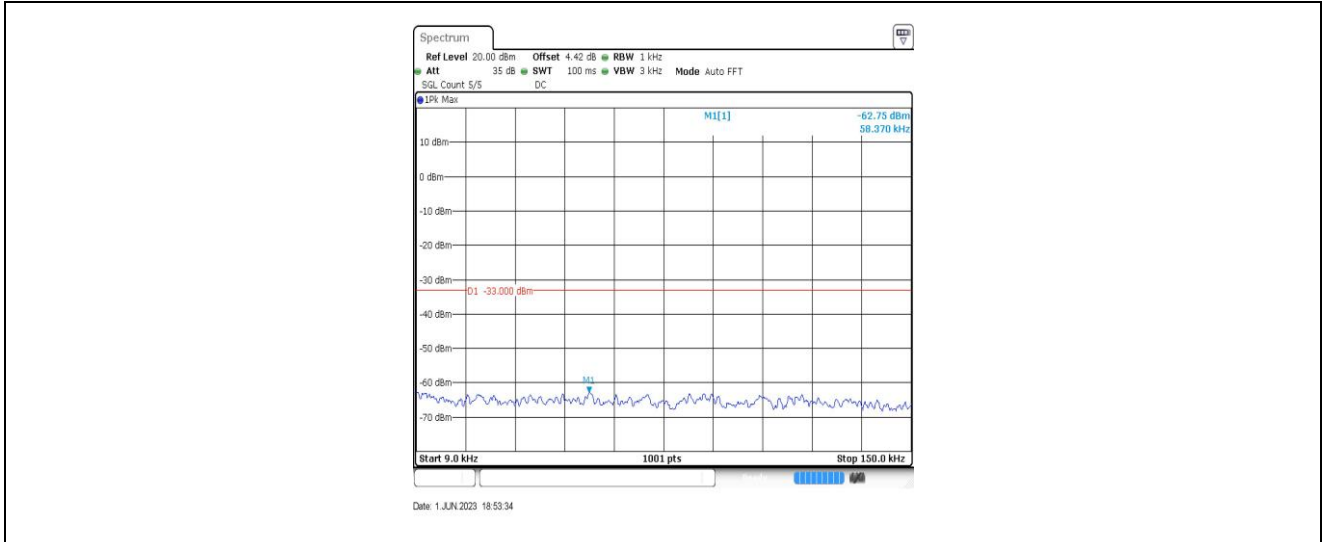
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

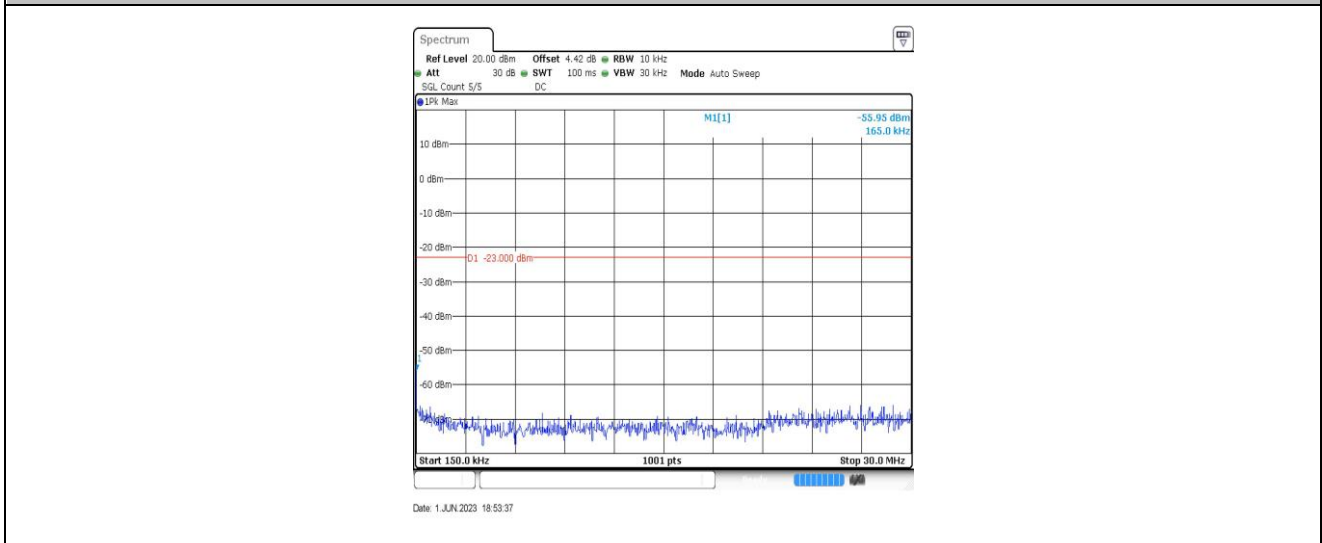
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com

Conducted Spurious Emission

Test Graphs



Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



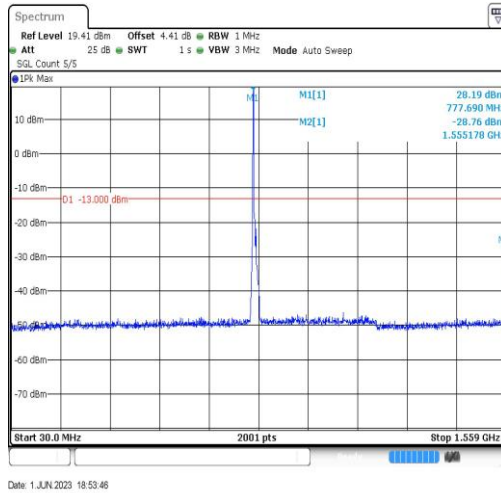
Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



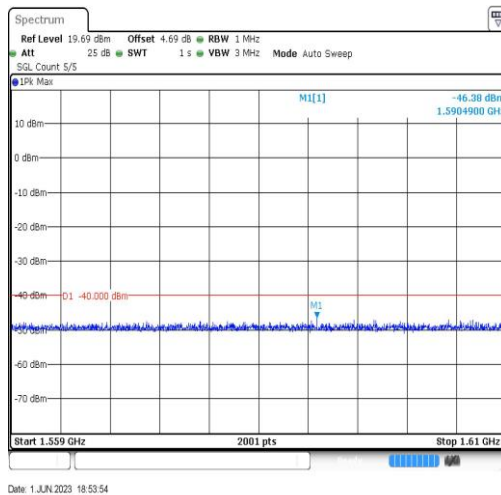
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction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

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

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



Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1559MHz



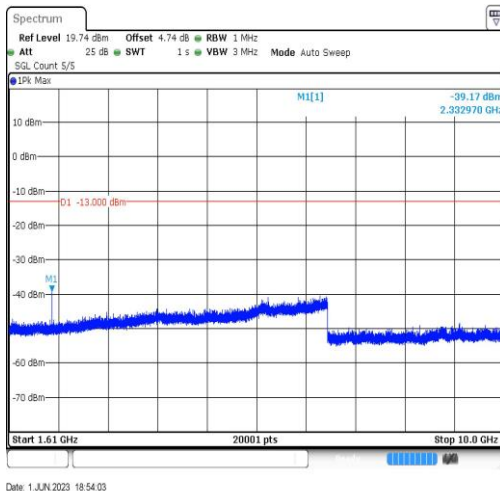
Band13-10MHz-QPSK-23230-1RB#0-Range4:1559~1610MHz



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

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

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



Band13-10MHz-QPSK-23230-1RB#0-Range5:1610~10000MHz



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

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

Field Strength of Spurious Radiation

Test Band = LTE_13_5M_ANT 31_TM1

Test Channel = LCH

Fianl Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1554.4277	66.28	-53.46	25.89	-56.55	-13.00	43.55	290	1	Horizontal
2	1577.3789	54.24	-53.41	25.85	-68.58	-40.00	28.58	152	330	Horizontal
3	3282.9641	52.37	-49.78	30.67	-62.00	-13.00	49.00	269	1	Horizontal
4	4519.626	51.75	-46.24	31.92	-57.83	-13.00	44.83	102	330	Horizontal
5	5664.9332	50.06	-43.43	33.36	-55.27	-13.00	42.27	154	247	Horizontal
6	7514.9757	48.34	-42.43	36.66	-52.69	-13.00	39.69	348	187	Horizontal

Fianl Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1554.8777	59.71	-53.46	25.89	-63.12	-13.00	50.12	150	55	Vertical
2	1597.6299	54.33	-53.37	25.80	-68.50	-40.00	28.50	203	275	Vertical
3	3106.5553	53.52	-50.37	30.13	-61.98	-13.00	48.98	243	35	Vertical
4	5142.4571	50.09	-44.28	33.58	-55.87	-13.00	42.87	267	118	Vertical
5	7464.5732	49.09	-42.76	36.67	-52.26	-13.00	39.26	335	295	Vertical
6	9020.301	48.06	-40.54	38.76	-48.98	-13.00	35.98	236	157	Vertical



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

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



Test Band = LTE_13_5M_ANT 31_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1559.828	64.70	-53.45	25.88	-58.13	-40.00	18.13	152	358	Horizontal
2	2335.2168	53.66	-51.92	27.81	-65.71	-13.00	52.71	201	296	Horizontal
3	3825.2413	51.74	-48.19	30.45	-61.26	-13.00	48.26	356	310	Horizontal
4	5076.3038	50.52	-44.33	33.45	-55.62	-13.00	42.62	251	271	Horizontal
5	7371.4186	48.49	-42.68	36.86	-52.59	-13.00	39.59	245	281	Horizontal
6	9060.803	47.13	-40.22	38.70	-49.65	-13.00	36.65	303	60	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1559.828	59.98	-53.45	25.88	-62.85	-13.00	49.85	128	84	Vertical
2	1585.9293	54.11	-53.39	25.83	-68.71	-40.00	28.71	150	178	Vertical
3	3971.0486	51.68	-47.92	30.98	-60.52	-13.00	47.52	323	340	Vertical
4	5118.6059	50.17	-44.14	33.54	-55.69	-13.00	42.69	134	65	Vertical
5	7369.6185	48.41	-42.69	36.86	-52.68	-13.00	39.68	173	16	Vertical
6	9048.2024	47.06	-40.11	38.70	-49.61	-13.00	36.61	295	291	Vertical



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

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



Test Band = LTE_13_5M_ANT 31_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1564.7782	61.59	-53.44	25.87	-61.24	-40.00	21.24	152	270	Horizontal
2	2513.4257	53.77	-51.12	28.08	-64.53	-13.00	51.53	244	226	Horizontal
3	3979.599	51.65	-47.94	31.02	-60.53	-13.00	47.53	182	196	Horizontal
4	5676.6338	49.72	-43.41	33.41	-55.54	-13.00	42.54	179	34	Horizontal
5	7466.3733	48.89	-42.75	36.67	-52.45	-13.00	39.45	338	162	Horizontal
6	9568.8784	46.67	-39.67	39.14	-49.12	-13.00	36.12	252	275	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1564.3282	59.05	-53.44	25.87	-63.78	-40.00	23.78	150	56	Vertical
2	2430.6215	53.78	-51.52	27.86	-65.14	-13.00	52.14	278	56	Vertical
3	3126.3563	52.99	-50.21	30.21	-62.27	-13.00	49.27	230	70	Vertical
4	4301.3651	52.38	-47.16	31.80	-58.24	-13.00	45.24	133	46	Vertical
5	5534.4267	50.07	-43.37	33.17	-55.39	-13.00	42.39	322	6	Vertical
6	7379.069	48.63	-42.64	36.84	-52.43	-13.00	39.43	154	145	Vertical



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

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

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

Test Band = LTE_13_10M_ANT 31_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1555.3278	64.24	-53.46	25.89	-58.59	-13.00	45.59	196	358	Horizontal
2	1593.5797	54.31	-53.37	25.81	-68.51	-40.00	28.51	152	55	Horizontal
3	3647.0324	52.99	-49.26	30.39	-61.14	-13.00	48.14	193	30	Horizontal
4	5063.2532	50.49	-44.49	33.43	-55.83	-13.00	42.83	236	119	Horizontal
5	7505.0753	48.59	-42.52	36.62	-52.57	-13.00	39.57	284	40	Horizontal
6	9045.5023	47.64	-40.15	38.71	-49.06	-13.00	36.06	156	305	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1554.8777	60.37	-53.46	25.89	-62.46	-13.00	49.46	331	45	Vertical
2	1595.3798	54.26	-53.37	25.81	-68.56	-40.00	28.56	150	35	Vertical
3	3228.0614	52.48	-50.03	30.51	-62.30	-13.00	49.30	245	212	Vertical
4	4552.0276	51.47	-46.24	32.10	-57.93	-13.00	44.93	337	158	Vertical
5	7383.1192	48.92	-42.61	36.83	-52.12	-13.00	39.12	298	30	Vertical
6	9020.751	47.18	-40.54	38.76	-49.86	-13.00	36.86	308	281	Vertical



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

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

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



Test Band = LTE_13_5M_ANT 13_TM1

Test Channel = LCH

Fianl Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1554.4277	60.89	-53.46	25.89	-61.94	-13.00	48.94	120	182	Horizontal
2	1596.2798	54.12	-53.37	25.81	-68.70	-40.00	28.70	150	90	Horizontal
3	3291.5146	51.91	-49.75	30.68	-62.42	-13.00	49.42	223	75	Horizontal
4	5140.657	50.13	-44.27	33.58	-55.82	-13.00	42.82	316	266	Horizontal
5	7406.9703	49.01	-42.56	36.79	-52.02	-13.00	39.02	175	350	Horizontal
6	9041.002	47.07	-40.22	38.72	-49.69	-13.00	36.69	396	163	Horizontal

Fianl Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1554.4277	58.75	-53.46	25.89	-64.08	-13.00	51.08	369	226	Vertical
2	1574.2287	53.96	-53.42	25.85	-68.87	-40.00	28.87	203	260	Vertical
3	3316.2658	52.38	-49.72	30.37	-62.23	-13.00	49.23	321	143	Vertical
4	5137.9569	50.36	-44.25	33.58	-55.57	-13.00	42.57	248	20	Vertical
5	7375.4688	48.52	-42.66	36.85	-52.55	-13.00	39.55	167	40	Vertical
6	9586.8793	46.23	-39.48	39.17	-49.34	-13.00	36.34	218	138	Vertical



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

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

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



Test Band = LTE_13_5M_ANT 13_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1559.828	62.06	-53.45	25.88	-60.77	-40.00	20.77	226	178	Horizontal
2	2532.3266	53.82	-51.01	28.19	-64.26	-13.00	51.26	276	3	Horizontal
3	3787.4394	52.10	-48.38	30.50	-61.04	-13.00	48.04	159	154	Horizontal
4	5120.856	50.60	-44.16	33.54	-55.28	-13.00	42.28	251	80	Horizontal
5	7352.5176	48.43	-42.79	36.89	-52.73	-13.00	39.73	143	305	Horizontal
6	9033.3517	47.40	-40.34	38.73	-49.47	-13.00	36.47	234	178	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1559.378	59.64	-53.45	25.88	-63.19	-40.00	23.19	365	237	Vertical
2	2526.9263	53.47	-51.04	28.16	-64.67	-13.00	51.67	125	252	Vertical
3	3284.3142	53.20	-49.77	30.67	-61.16	-13.00	48.16	186	320	Vertical
4	5130.7565	50.26	-44.21	33.56	-55.65	-13.00	42.65	247	198	Vertical
5	7400.67	48.37	-42.52	36.80	-52.61	-13.00	39.61	148	261	Vertical
6	9589.5795	46.16	-39.46	39.18	-49.38	-13.00	36.38	184	65	Vertical



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

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

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



Test Band = LTE_13_5M_ANT 13_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1564.7782	61.79	-53.44	25.87	-61.04	-40.00	21.04	226	178	Horizontal
2	2529.6265	53.40	-51.02	28.18	-64.70	-13.00	51.70	382	79	Horizontal
3	3728.0364	52.37	-49.02	30.41	-61.50	-13.00	48.50	400	20	Horizontal
4	5129.4065	50.28	-44.20	33.56	-55.62	-13.00	42.62	255	49	Horizontal
5	7371.8686	48.97	-42.68	36.86	-52.11	-13.00	39.11	165	358	Horizontal
6	9032.4516	47.53	-40.35	38.74	-49.34	-13.00	36.34	221	315	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1564.7782	60.29	-53.44	25.87	-62.54	-40.00	22.54	247	231	Vertical
2	2543.5772	53.51	-50.94	28.26	-64.43	-13.00	51.43	227	261	Vertical
3	3299.615	52.05	-49.72	30.70	-62.23	-13.00	49.23	243	11	Vertical
4	5160.458	50.47	-44.31	33.33	-55.77	-13.00	42.77	319	280	Vertical
5	6929.4965	48.90	-44.00	36.32	-54.04	-13.00	41.04	124	246	Vertical
6	9255.2128	46.46	-39.81	39.07	-49.54	-13.00	36.54	280	300	Vertical



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

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

Test Band = LTE_13_10M_ANT 13_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1554.8777	61.46	-53.46	25.89	-61.37	-13.00	48.37	324	177	Horizontal
2	1603.9302	54.11	-53.32	25.81	-68.66	-40.00	28.66	155	305	Horizontal
3	4376.9688	51.63	-46.71	32.06	-58.28	-13.00	45.28	341	315	Horizontal
4	5670.7835	50.12	-43.42	33.38	-55.18	-13.00	42.18	273	148	Horizontal
5	7460.523	48.85	-42.78	36.68	-52.51	-13.00	39.51	228	251	Horizontal
6	9565.7283	46.54	-39.70	39.13	-49.29	-13.00	36.29	235	143	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle [°]	Polarity
1	1554.8777	59.74	-53.46	25.89	-63.09	-13.00	50.09	237	236	Vertical
2	1596.2798	54.48	-53.37	25.81	-68.34	-40.00	28.34	266	216	Vertical
3	3315.8158	52.29	-49.72	30.38	-62.31	-13.00	49.31	188	304	Vertical
4	5128.9564	50.30	-44.20	33.56	-55.60	-13.00	42.60	335	99	Vertical
5	7382.2191	48.52	-42.62	36.84	-52.52	-13.00	39.52	231	104	Vertical
6	9073.4037	47.61	-40.38	38.70	-49.33	-13.00	36.33	312	319	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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

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

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

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-13.10	-0.016752	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-9.50	-0.012148	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-11.30	-0.014450	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-2.60	-0.003325	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-4.80	-0.006138	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-5.70	-0.007289	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-7.10	-0.009079	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-8.80	-0.011253	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-10.80	-0.013811	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-8.70	-0.011125	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-8.40	-0.010742	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-3.70	-0.004731	PASS

---End of Attachment---



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

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