

Appendix B

E-UTRA Band 30



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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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



CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER 4

1.1. CONDUCTED POWER TEST RESULT 4

1.2. EIRP DENSITY RESULT 11

1.2.1. TEST PLOTS **ERROR! BOOKMARK NOT DEFINED.**

2. PEAK-TO-AVERAGE RATIO (CCDF)..... 19

2.1. TEST RESULT 19

2.2. TEST PLOTS..... 19

3. MODULATION CHARACTERISTICS 22

3.1. TEST MODE = LTE /TM1 10MHZ..... 22

3.1.1. TEST CHANNEL = MCH..... 22

3.2. TEST MODE = LTE /TM2 10MHZ..... 23

3.2.1. TEST CHANNEL = MCH..... 23

3.3. TEST MODE = LTE /TM3 10MHZ..... 23

3.3.1. TEST CHANNEL = MCH..... 23

3.4. TEST MODE = LTE /TM4 10MHZ..... 25

3.4.1. TEST CHANNEL = MCH..... 25

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 26

4.1. TEST RESULT 26

4.2. TEST PLOTS..... 27

5. BAND EDGE COMPLIANCE 36

5.1. TEST PLOTS..... 36

6. SPURIOUS EMISSION AT ANTENNA TERMINAL 40

6.1. TEST PLOTS..... 40

7. FIELD STRENGTH OF SPURIOUS RADIATION..... 42

7.1. Test Band LTE_Band30 BW10MHz _TM1 ANT0 42

7.1.1. Test Channel Mid Channel..... 42

7.2. Test Band LTE_Band30 BW10MHz _TM1 ANT0 43

7.2.1. Test Channel Mid Channel..... 43

7.3. Test Band LTE_Band30 _TM1 ANT1 44

7.3.1. Test Channel Mid Channel..... 44



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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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



7.4. Test Band LTE_Band30_TM1 ANT1 45

7.4.1. Test Channel Mid Channel..... 45

8. FREQUENCY STABILITY 46

8.1. FREQUENCY VS VOLTAGE 46

8.2. FREQUENCY VS TEMPERATURE 46



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 (Isotropic) Radiated Power

1.1. Conducted Power Test Result

ANTO:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.53	19.41	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.69	19.57	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.56	19.44	23.98	PASS
Band30	5MHz	QPSK	27685	12RB#13	21.69	18.57	23.98	PASS
Band30	5MHz	QPSK	27685	12RB#6	21.77	18.65	23.98	PASS
Band30	5MHz	QPSK	27685	12RB#0	21.71	18.59	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.69	18.57	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.64	19.52	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.66	19.54	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.60	19.48	23.98	PASS
Band30	5MHz	QPSK	27710	12RB#6	21.59	18.47	23.98	PASS
Band30	5MHz	QPSK	27710	12RB#0	21.65	18.53	23.98	PASS
Band30	5MHz	QPSK	27710	12RB#13	21.66	18.54	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.60	18.48	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.68	19.56	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.69	19.57	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.39	19.27	23.98	PASS
Band30	5MHz	QPSK	27735	12RB#0	21.65	18.53	23.98	PASS
Band30	5MHz	QPSK	27735	12RB#13	21.66	18.54	23.98	PASS
Band30	5MHz	QPSK	27735	12RB#6	21.72	18.60	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.66	18.54	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.14	19.02	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.66	18.54	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.88	18.76	23.98	PASS
Band30	5MHz	16QAM	27685	12RB#0	20.69	17.57	23.98	PASS
Band30	5MHz	16QAM	27685	12RB#6	20.60	17.48	23.98	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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band30	5MHz	16QAM	27685	12RB#13	20.66	17.54	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.70	17.58	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.59	18.47	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.67	18.55	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	22.16	19.04	23.98	PASS
Band30	5MHz	16QAM	27710	12RB#6	20.69	17.57	23.98	PASS
Band30	5MHz	16QAM	27710	12RB#0	20.77	17.65	23.98	PASS
Band30	5MHz	16QAM	27710	12RB#13	20.70	17.58	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.59	17.47	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.84	18.72	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.78	18.66	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.59	18.47	23.98	PASS
Band30	5MHz	16QAM	27735	12RB#0	20.73	17.61	23.98	PASS
Band30	5MHz	16QAM	27735	12RB#6	20.77	17.65	23.98	PASS
Band30	5MHz	16QAM	27735	12RB#13	20.59	17.47	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.72	17.60	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	20.34	17.22	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.36	17.24	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.36	17.24	23.98	PASS
Band30	5MHz	64QAM	27685	12RB#0	19.39	16.27	23.98	PASS
Band30	5MHz	64QAM	27685	12RB#6	19.36	16.24	23.98	PASS
Band30	5MHz	64QAM	27685	12RB#13	19.34	16.22	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	19.29	16.17	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.68	17.56	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	20.69	17.57	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.56	17.44	23.98	PASS
Band30	5MHz	64QAM	27710	12RB#6	19.59	16.47	23.98	PASS
Band30	5MHz	64QAM	27710	12RB#13	19.63	16.51	23.98	PASS
Band30	5MHz	64QAM	27710	12RB#0	19.70	16.58	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.65	16.53	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.69	17.57	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.74	17.62	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.56	17.44	23.98	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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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. Shenzhen Branch, Inspection & Testing Services Laboratory.
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band30	5MHz	64QAM	27735	12RB#6	19.66	16.54	23.98	PASS
Band30	5MHz	64QAM	27735	12RB#0	19.81	16.69	23.98	PASS
Band30	5MHz	64QAM	27735	12RB#13	19.74	16.62	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.63	16.51	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	17.43	14.31	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	17.33	14.21	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	17.37	14.25	23.98	PASS
Band30	5MHz	256QAM	27685	12RB#13	17.32	14.20	23.98	PASS
Band30	5MHz	256QAM	27685	12RB#0	17.29	14.17	23.98	PASS
Band30	5MHz	256QAM	27685	12RB#6	17.4	14.28	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	17.31	14.19	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	17.57	14.45	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	17.63	14.51	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	17.68	14.56	23.98	PASS
Band30	5MHz	256QAM	27710	12RB#13	17.61	14.49	23.98	PASS
Band30	5MHz	256QAM	27710	12RB#0	17.61	14.49	23.98	PASS
Band30	5MHz	256QAM	27710	12RB#6	17.7	14.58	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	17.58	14.46	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	17.64	14.52	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	17.81	14.69	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	17.76	14.64	23.98	PASS
Band30	5MHz	256QAM	27735	12RB#0	17.67	14.55	23.98	PASS
Band30	5MHz	256QAM	27735	12RB#6	17.85	14.73	23.98	PASS
Band30	5MHz	256QAM	27735	12RB#13	17.71	14.59	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	17.70	14.58	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.87	19.75	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.75	19.63	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.71	19.59	23.98	PASS
Band30	10MHz	QPSK	27710	25RB#12	21.55	18.43	23.98	PASS
Band30	10MHz	QPSK	27710	25RB#25	21.65	18.53	23.98	PASS
Band30	10MHz	QPSK	27710	25RB#0	21.62	18.50	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.66	18.54	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	22.23	19.11	23.98	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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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



Band30	10MHz	16QAM	27710	1RB#0	21.95	18.83	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	22.18	19.06	23.98	PASS
Band30	10MHz	16QAM	27710	25RB#25	20.63	17.51	23.98	PASS
Band30	10MHz	16QAM	27710	25RB#0	20.73	17.61	23.98	PASS
Band30	10MHz	16QAM	27710	25RB#12	20.71	17.59	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.72	17.60	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.59	17.47	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.62	17.50	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.55	17.43	23.98	PASS
Band30	10MHz	64QAM	27710	25RB#25	19.59	16.47	23.98	PASS
Band30	10MHz	64QAM	27710	25RB#0	19.66	16.54	23.98	PASS
Band30	10MHz	64QAM	27710	25RB#12	19.74	16.62	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.72	16.60	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	17.44	14.32	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#24	17.64	14.52	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	17.57	14.45	23.98	PASS
Band30	10MHz	256QAM	27710	25RB#0	17.66	14.54	23.98	PASS
Band30	10MHz	256QAM	27710	25RB#12	17.63	14.51	23.98	PASS
Band30	10MHz	256QAM	27710	25RB#25	17.51	14.39	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	17.70	14.58	23.98	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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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



ANT1:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	23.44	21.19	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	23.44	21.19	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	23.33	21.08	23.98	PASS
Band30	5MHz	QPSK	27685	12RB#13	22.37	20.12	23.98	PASS
Band30	5MHz	QPSK	27685	12RB#6	22.44	20.19	23.98	PASS
Band30	5MHz	QPSK	27685	12RB#0	22.43	20.18	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	22.29	20.04	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	23.41	21.16	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	23.42	21.17	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	23.40	21.15	23.98	PASS
Band30	5MHz	QPSK	27710	12RB#6	22.41	20.16	23.98	PASS
Band30	5MHz	QPSK	27710	12RB#0	22.43	20.18	23.98	PASS
Band30	5MHz	QPSK	27710	12RB#13	22.40	20.15	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	22.36	20.11	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	23.38	21.13	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	23.43	21.18	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	23.45	21.20	23.98	PASS
Band30	5MHz	QPSK	27735	12RB#0	22.43	20.18	23.98	PASS
Band30	5MHz	QPSK	27735	12RB#13	22.39	20.14	23.98	PASS
Band30	5MHz	QPSK	27735	12RB#6	22.36	20.11	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	22.40	20.15	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.61	20.36	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	22.60	20.35	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	22.23	19.98	23.98	PASS
Band30	5MHz	16QAM	27685	12RB#0	21.43	19.18	23.98	PASS
Band30	5MHz	16QAM	27685	12RB#6	21.57	19.32	23.98	PASS
Band30	5MHz	16QAM	27685	12RB#13	21.50	19.25	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	21.37	19.12	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	22.55	20.30	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	22.64	20.39	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	22.29	20.04	23.98	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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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. Shenzhen Branch
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band30	5MHz	16QAM	27710	12RB#6	21.35	19.10	23.98	PASS
Band30	5MHz	16QAM	27710	12RB#0	21.51	19.26	23.98	PASS
Band30	5MHz	16QAM	27710	12RB#13	21.44	19.19	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	21.39	19.14	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	22.49	20.24	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	22.70	20.45	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	22.23	19.98	23.98	PASS
Band30	5MHz	16QAM	27735	12RB#0	21.41	19.16	23.98	PASS
Band30	5MHz	16QAM	27735	12RB#6	21.55	19.30	23.98	PASS
Band30	5MHz	16QAM	27735	12RB#13	21.41	19.16	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	21.40	19.15	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	21.67	19.42	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	21.61	19.36	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	21.79	19.54	23.98	PASS
Band30	5MHz	64QAM	27685	12RB#0	20.72	18.47	23.98	PASS
Band30	5MHz	64QAM	27685	12RB#6	20.71	18.46	23.98	PASS
Band30	5MHz	64QAM	27685	12RB#13	20.66	18.41	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	20.75	18.50	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	21.67	19.42	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	21.67	19.42	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	21.71	19.46	23.98	PASS
Band30	5MHz	64QAM	27710	12RB#6	20.68	18.43	23.98	PASS
Band30	5MHz	64QAM	27710	12RB#13	20.64	18.39	23.98	PASS
Band30	5MHz	64QAM	27710	12RB#0	20.70	18.45	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	20.72	18.47	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	21.59	19.34	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	21.65	19.40	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	21.78	19.53	23.98	PASS
Band30	5MHz	64QAM	27735	12RB#6	20.63	18.38	23.98	PASS
Band30	5MHz	64QAM	27735	12RB#0	20.60	18.35	23.98	PASS
Band30	5MHz	64QAM	27735	12RB#13	20.74	18.49	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	20.75	18.50	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	18.67	16.42	23.98	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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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. Shenzhen Branch
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band30	5MHz	256QAM	27685	1RB#12	18.71	16.46	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	18.63	16.38	23.98	PASS
Band30	5MHz	256QAM	27685	12RB#13	18.73	16.48	23.98	PASS
Band30	5MHz	256QAM	27685	12RB#0	18.63	16.38	23.98	PASS
Band30	5MHz	256QAM	27685	12RB#6	18.68	16.43	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	18.59	16.34	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	18.69	16.44	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	18.62	16.37	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	18.7	16.45	23.98	PASS
Band30	5MHz	256QAM	27710	12RB#13	18.76	16.51	23.98	PASS
Band30	5MHz	256QAM	27710	12RB#0	18.71	16.46	23.98	PASS
Band30	5MHz	256QAM	27710	12RB#6	18.69	16.44	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	18.7	16.45	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	18.67	16.42	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	18.62	16.37	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	18.75	16.50	23.98	PASS
Band30	5MHz	256QAM	27735	12RB#0	18.75	16.50	23.98	PASS
Band30	5MHz	256QAM	27735	12RB#6	18.69	16.44	23.98	PASS
Band30	5MHz	256QAM	27735	12RB#13	18.67	16.42	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	18.71	16.46	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	23.62	21.37	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	23.59	21.34	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	23.6	21.35	23.98	PASS
Band30	10MHz	QPSK	27710	25RB#12	22.57	20.32	23.98	PASS
Band30	10MHz	QPSK	27710	25RB#25	22.67	20.42	23.98	PASS
Band30	10MHz	QPSK	27710	25RB#0	22.66	20.41	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	22.53	20.28	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	22.75	20.50	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	22.91	20.66	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	22.93	20.68	23.98	PASS
Band30	10MHz	16QAM	27710	25RB#25	21.63	19.38	23.98	PASS
Band30	10MHz	16QAM	27710	25RB#0	21.62	19.37	23.98	PASS
Band30	10MHz	16QAM	27710	25RB#12	21.69	19.44	23.98	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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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



Band30	10MHz	16QAM	27710	50RB#0	21.58	19.33	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	21.73	19.48	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	21.66	19.41	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	21.69	19.44	23.98	PASS
Band30	10MHz	64QAM	27710	25RB#25	20.69	18.44	23.98	PASS
Band30	10MHz	64QAM	27710	25RB#0	20.71	18.46	23.98	PASS
Band30	10MHz	64QAM	27710	25RB#12	20.68	18.43	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	20.72	18.47	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	18.67	16.42	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#24	18.68	16.43	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	18.67	16.42	23.98	PASS
Band30	10MHz	256QAM	27710	25RB#0	18.70	16.45	23.98	PASS
Band30	10MHz	256QAM	27710	25RB#12	18.69	16.44	23.98	PASS
Band30	10MHz	256QAM	27710	25RB#25	18.65	16.40	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	18.71	16.46	23.98	PASS

1.2. EIRP Density Result

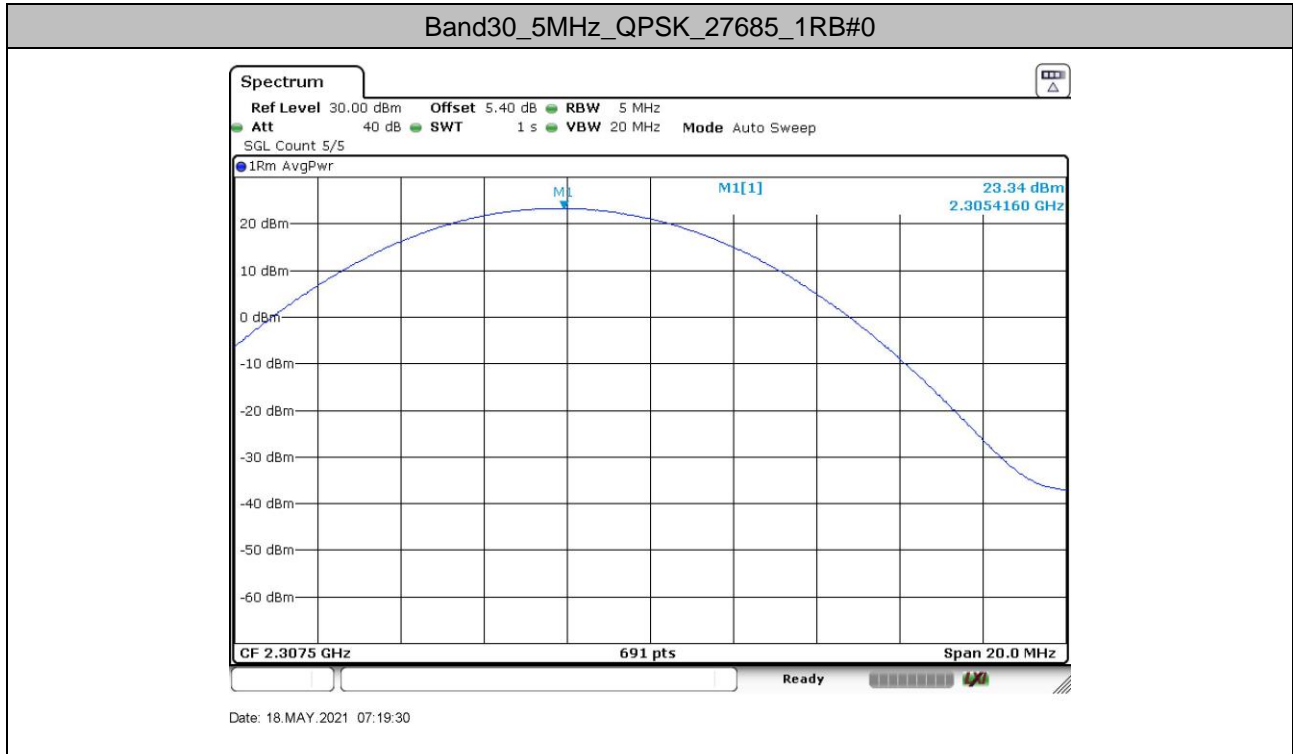
Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power Density (dBm/5MHz)	EIRP Density (dBm/5MHz)	Limit (dBm/5MHz)	Result
Band30	5MHz	QPSK	27685	1RB#0	23.34	20.19	23.98	Pass
Band30	5MHz	QPSK	27685	1RB#12	23.39	20.24	23.98	Pass
Band30	5MHz	QPSK	27685	1RB#24	23.30	20.15	23.98	Pass
Band30	5MHz	QPSK	27710	1RB#0	23.35	20.2	23.98	Pass
Band30	5MHz	QPSK	27710	1RB#12	23.37	20.22	23.98	Pass
Band30	5MHz	QPSK	27710	1RB#24	23.22	20.07	23.98	Pass
Band30	5MHz	QPSK	27735	1RB#0	23.35	20.2	23.98	Pass
Band30	5MHz	QPSK	27735	1RB#12	23.32	20.17	23.98	Pass
Band30	5MHz	QPSK	27735	1RB#24	23.30	20.15	23.98	Pass
Band30	10MHz	QPSK	27710	1RB#0	23.56	20.41	23.98	Pass
Band30	10MHz	QPSK	27710	1RB#24	23.43	20.28	23.98	Pass
Band30	10MHz	QPSK	27710	1RB#49	23.28	20.13	23.98	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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

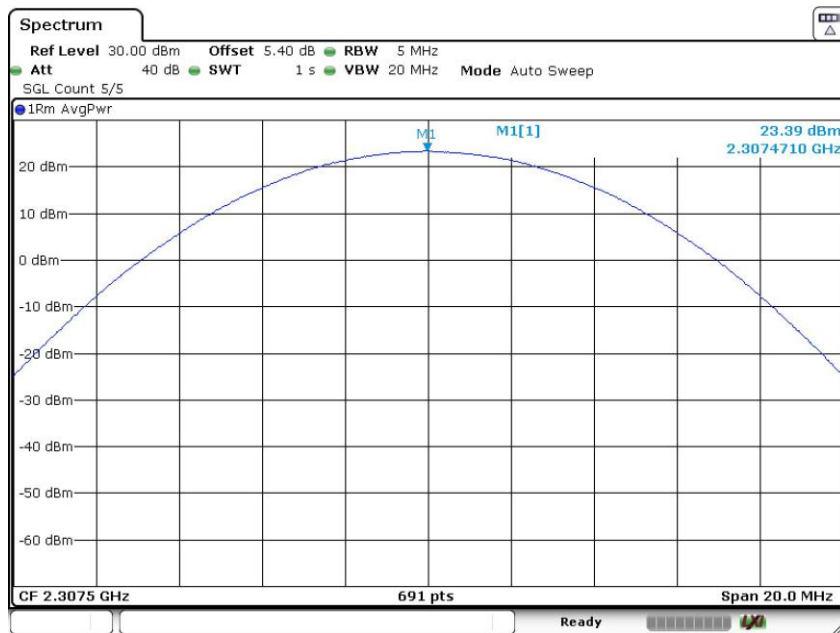
1.2.1. Test Plots



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

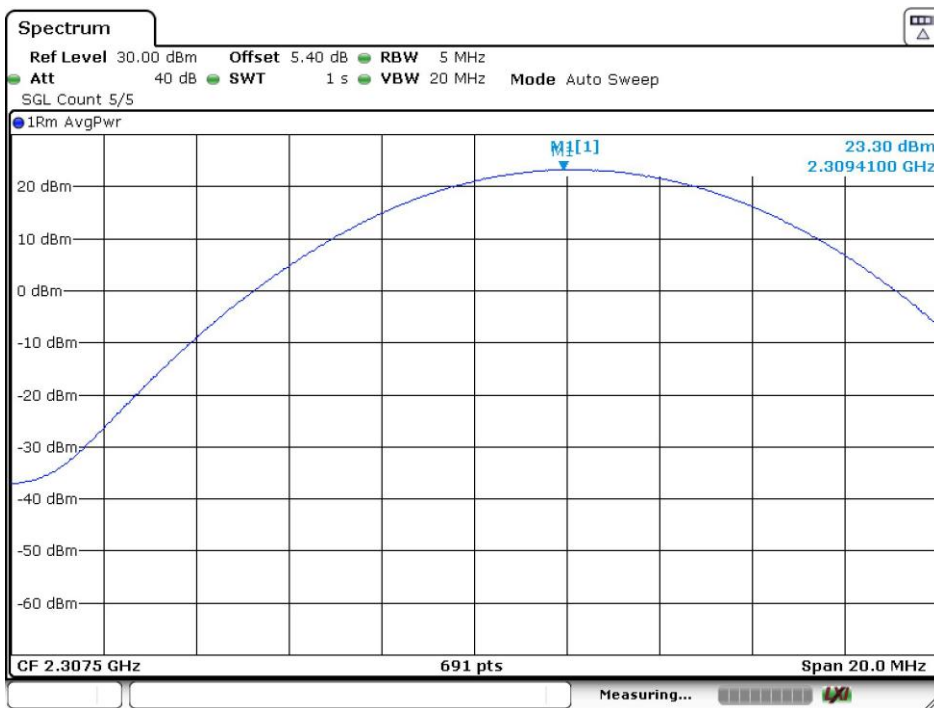
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Band30_5MHz_QPSK_27685_1RB#12



Date: 18.MAY.2021 07:20:03

Band30_5MHz_QPSK_27685_1RB#24



Date: 18.MAY.2021 07:20:25



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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

Band30_5MHz_QPSK_27710_1RB#0



Date: 18.MAY.2021 07:22:40

Band30_5MHz_QPSK_27710_1RB#12



Date: 18.MAY.2021 07:22:18



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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

Band30_5MHz_QPSK_27710_1RB#24



Date: 18.MAY.2021 07:21:41

Band30_5MHz_QPSK_27735_1RB#0

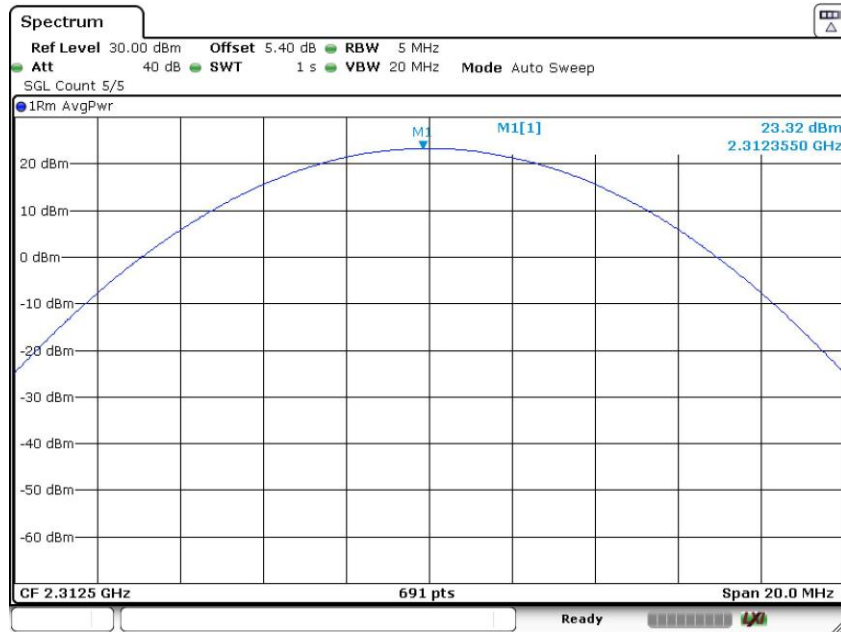


Date: 18.MAY.2021 07:23:23



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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band30_5MHz_QPSK_27735_1RB#12



Date: 18.MAY.2021 07:23:44

Band30_5MHz_QPSK_27735_1RB#24



Date: 18.MAY.2021 07:24:31



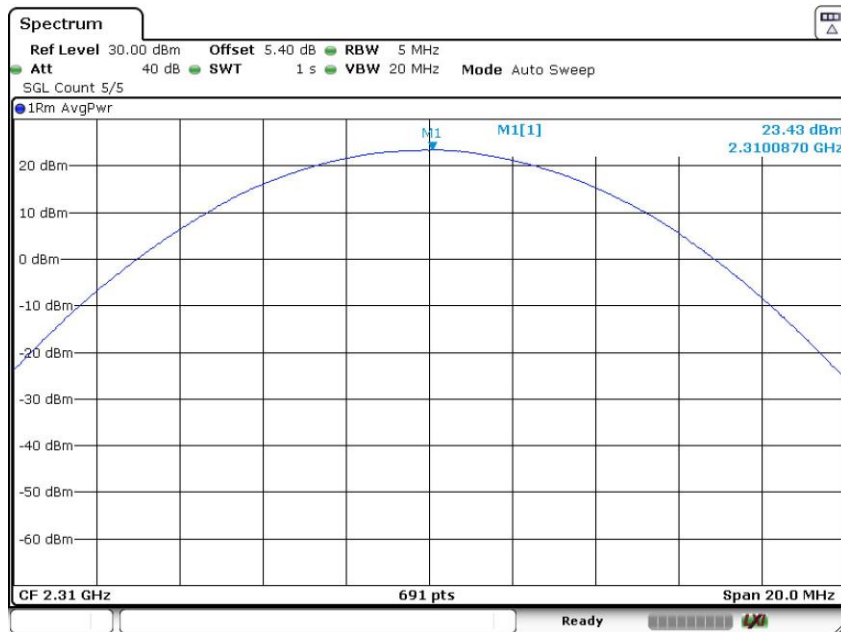
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

Band30_10MHz_QPSK_27710_1RB#0



Date: 18.MAY.2021 07:32:04

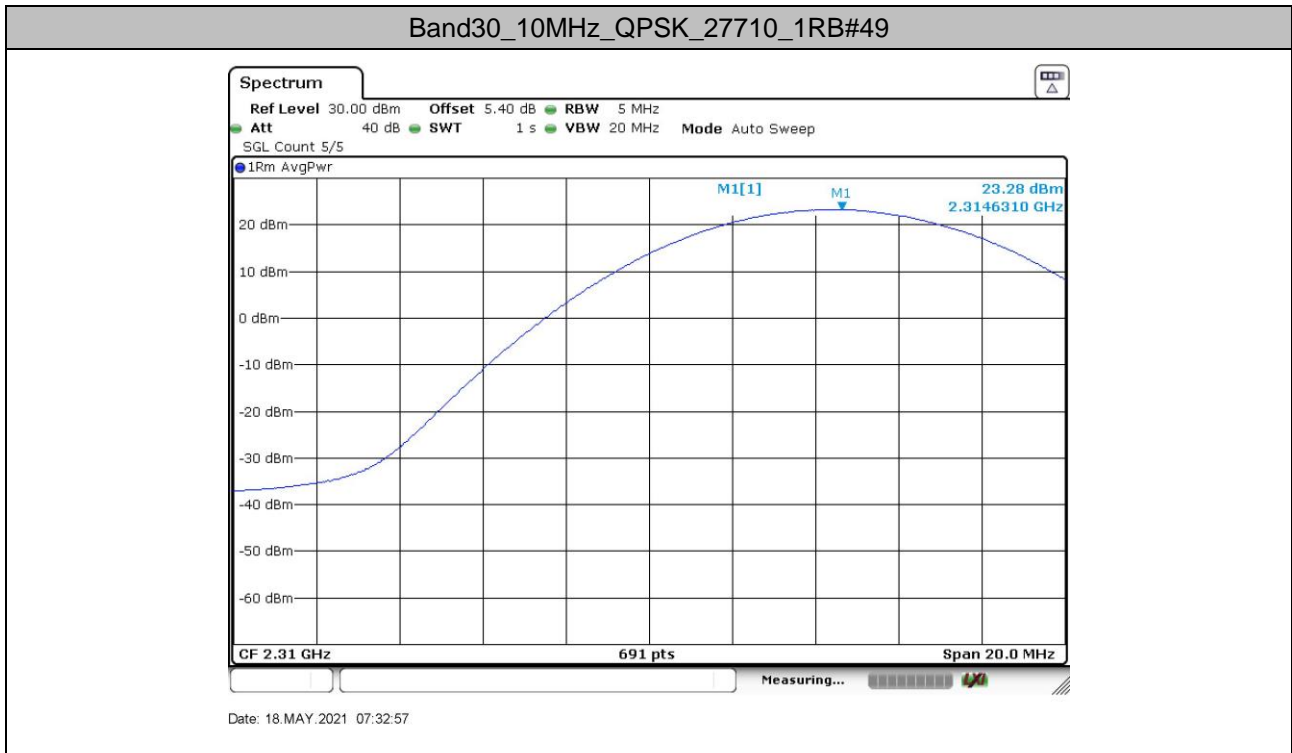
Band30_10MHz_QPSK_27710_1RB#24



Date: 18.MAY.2021 07:32:38



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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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



Remark:

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

$$ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBd]$$

$$EIRP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$$



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

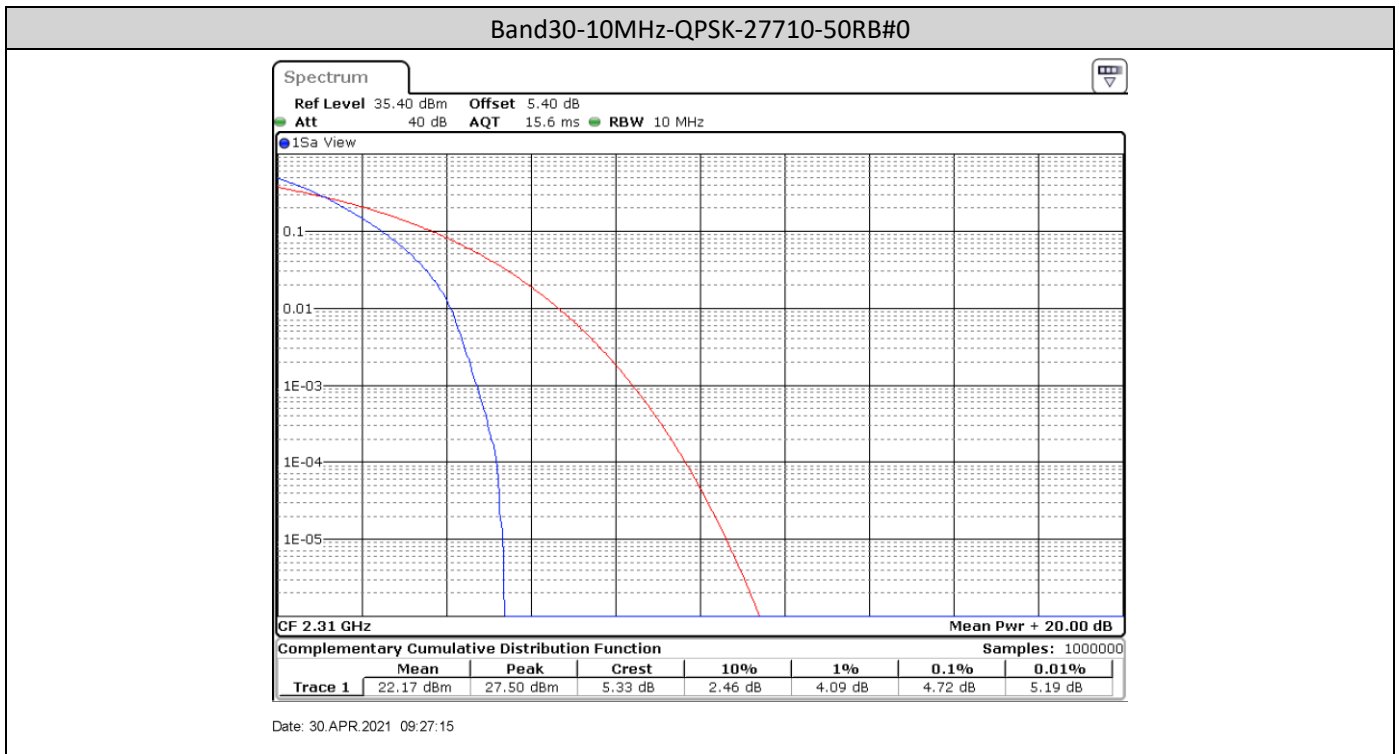
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	4.72	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	6.23	13	PASS
Band30	10MHz	256QAM	27710	50RB#0	6.58	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.65	13	PASS

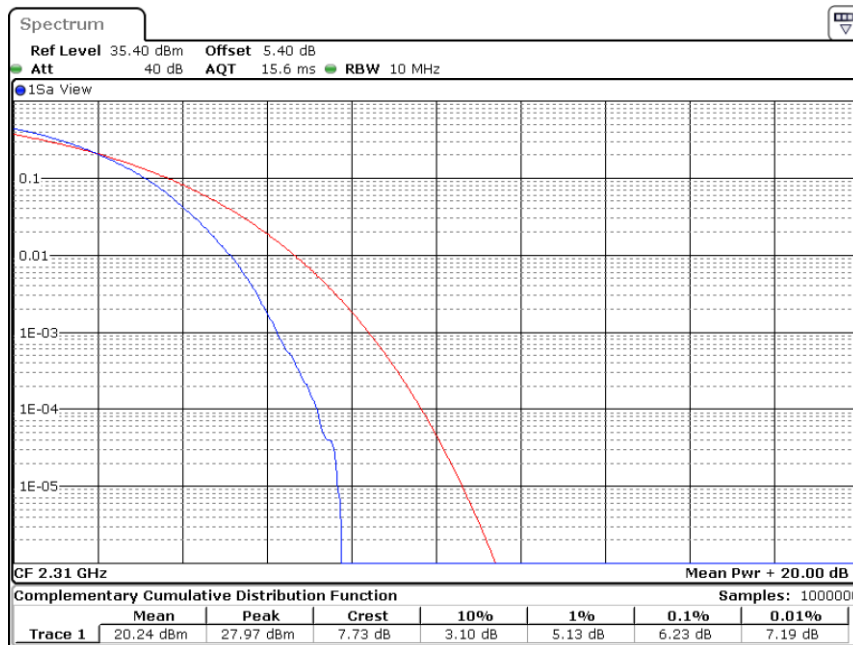
2.2. Test Plots



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

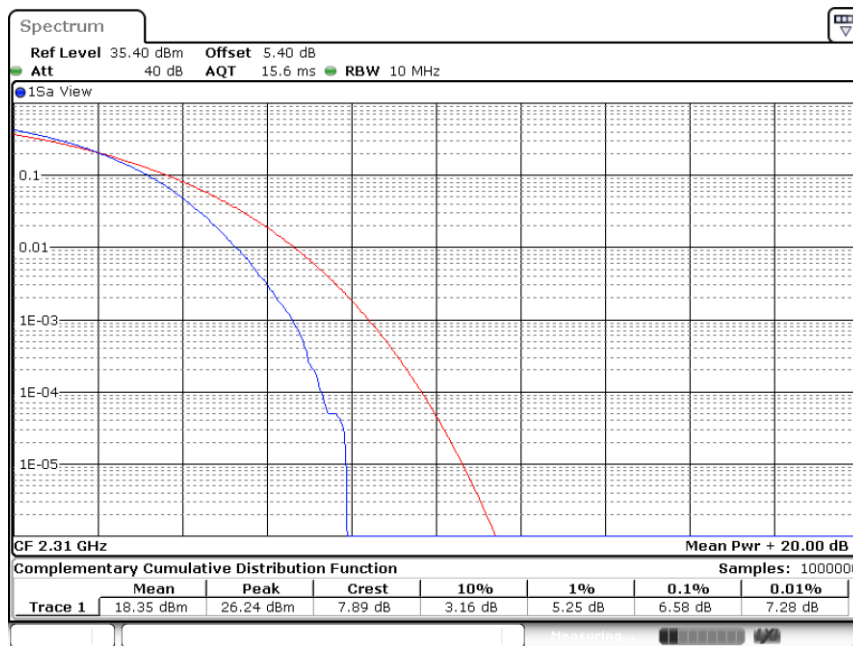
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Band30-10MHz-64QAM-27710-50RB#0



Date: 30.APR.2021 09:36:44

Band30-10MHz-256QAM-27710-50RB#0

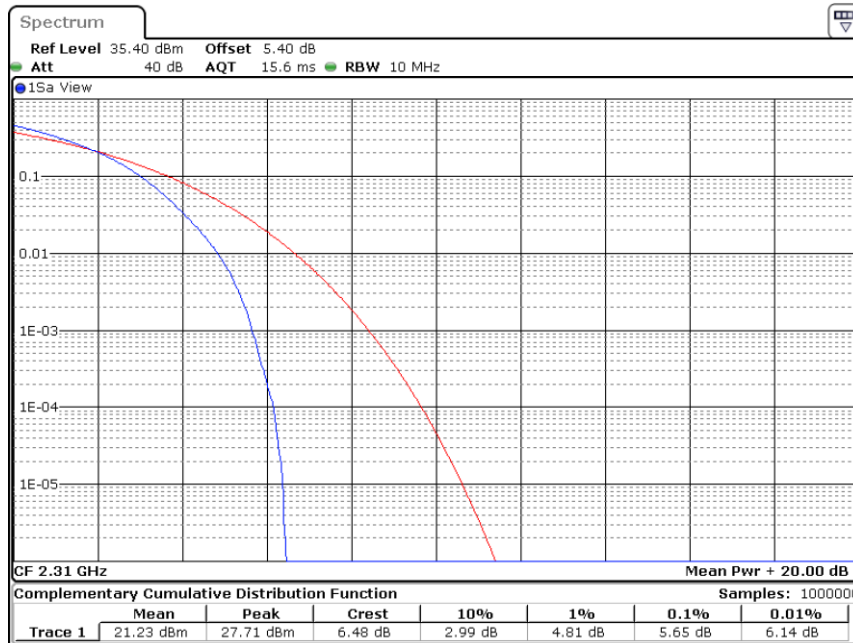


Date: 8.MAY.2021 03:46:24



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

Band30-10MHz-16QAM-27710-50RB#0



Date: 30.APR.2021 09:27:26



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

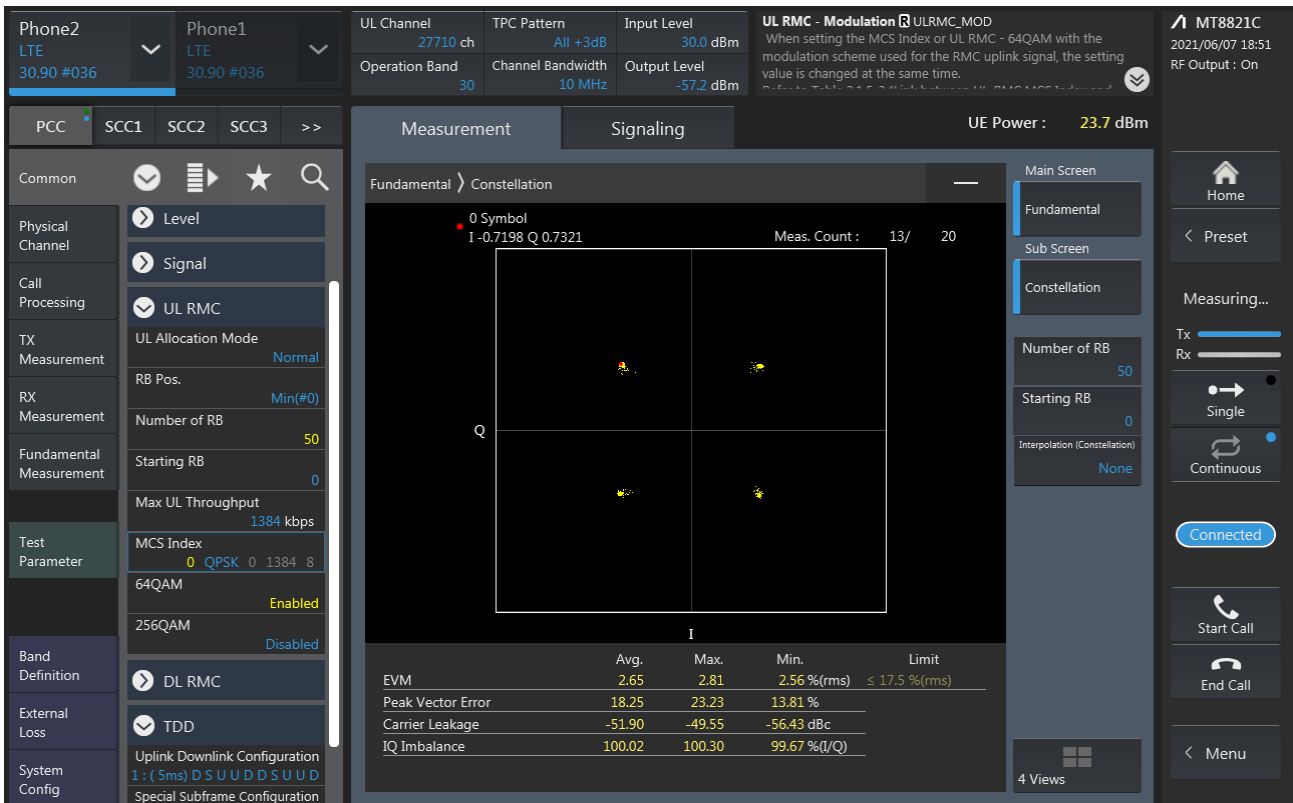
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



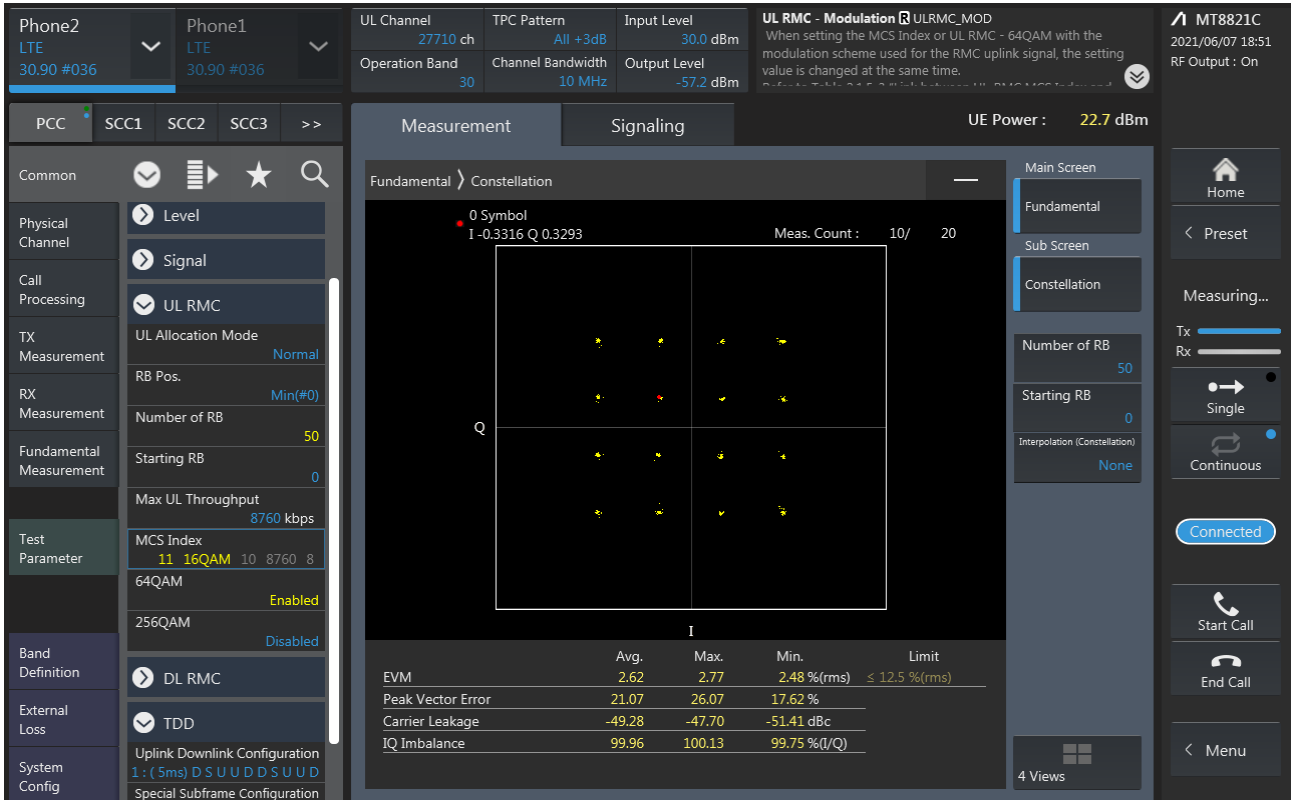
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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



3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



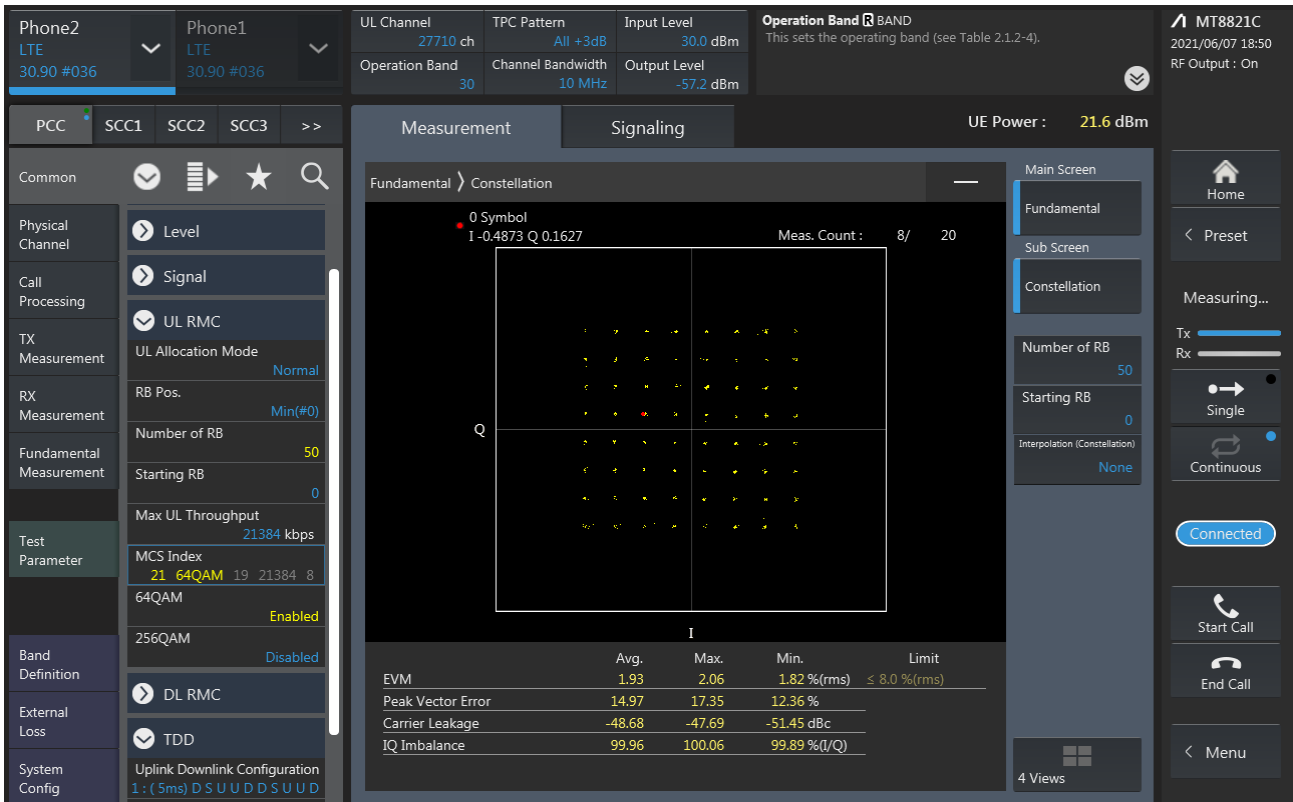
3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

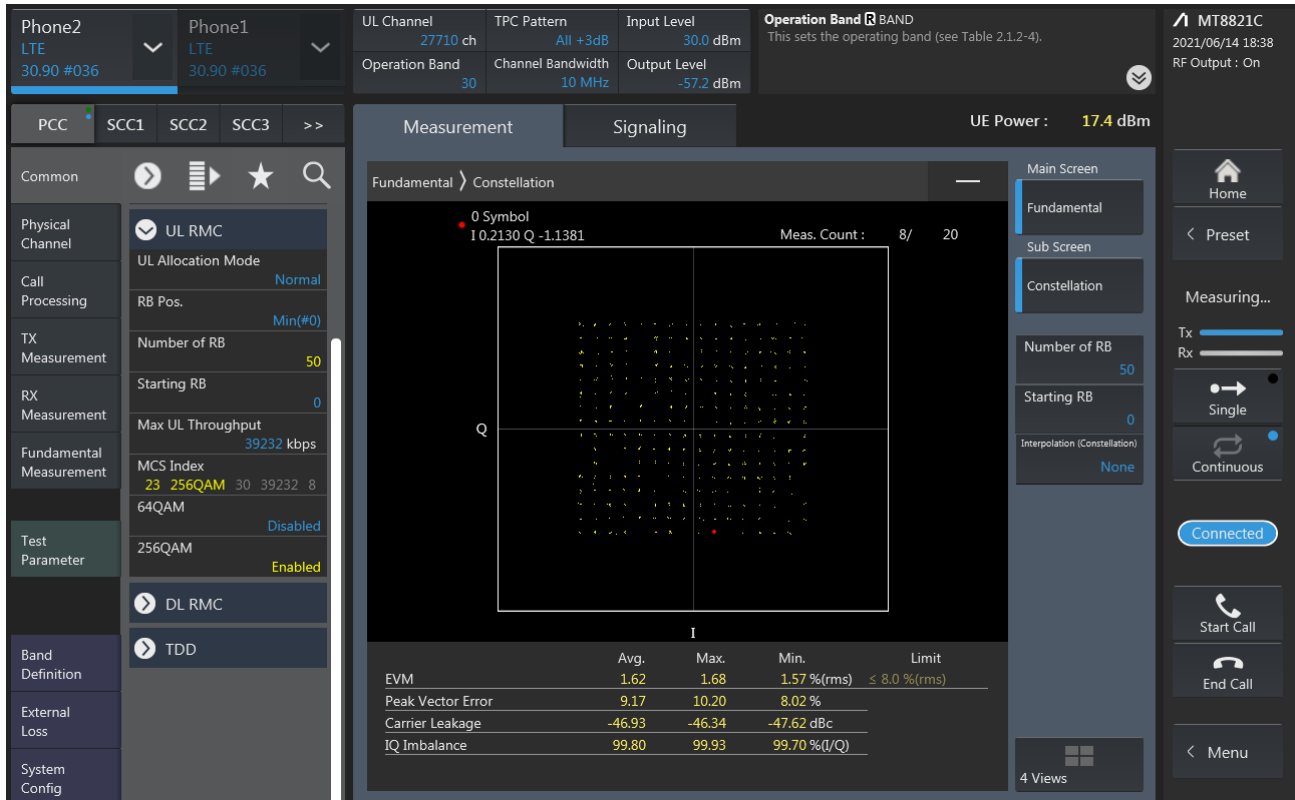


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

3.4. Test Mode = LTE /TM4 10MHz

3.4.1. Test Channel = MCH



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

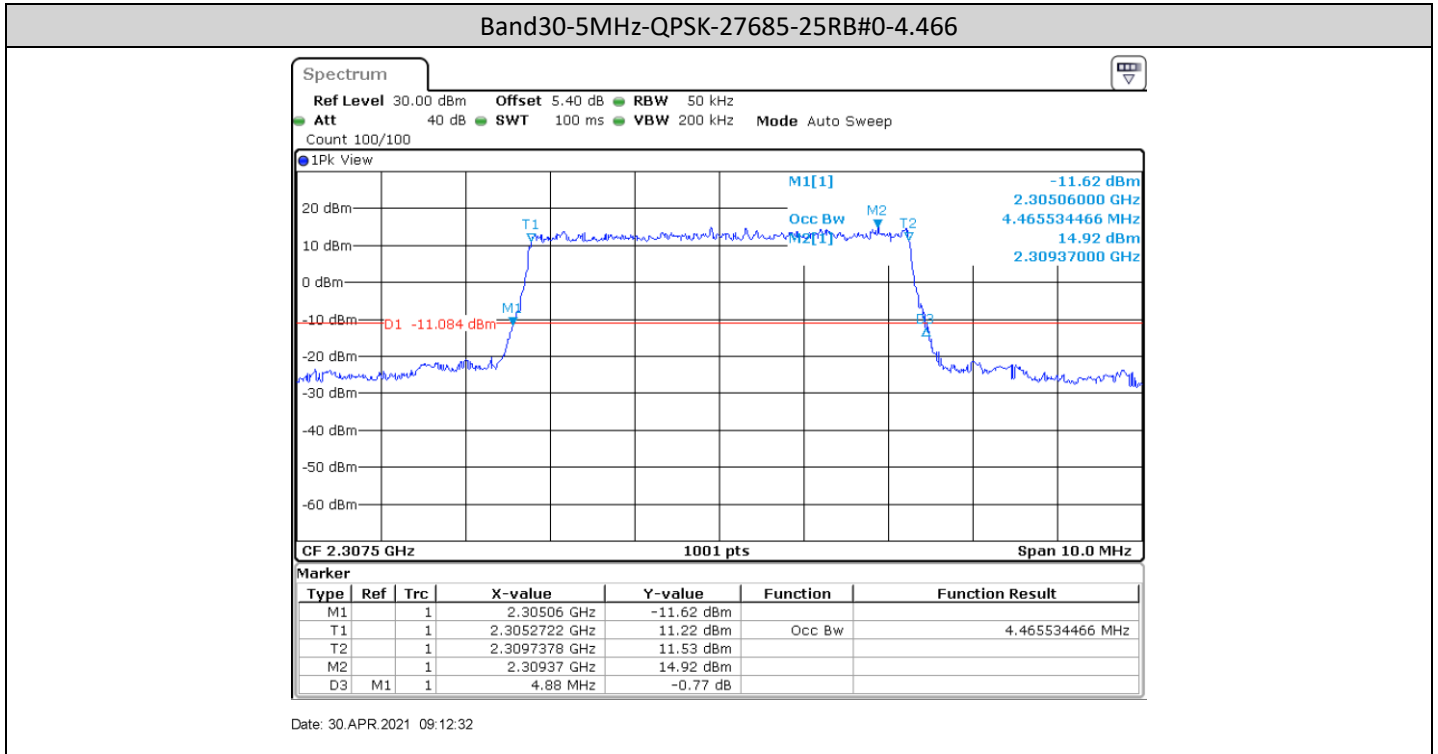
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.466	4.880	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.466	4.900	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.466	4.900	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.466	4.870	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.466	4.870	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.466	4.870	PASS
Band30	5MHz	256QAM	27685	25RB#0	4.486	4.910	PASS
Band30	5MHz	256QAM	27710	25RB#0	4.476	4.900	PASS
Band30	5MHz	256QAM	27735	25RB#0	4.476	4.890	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.486	4.910	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.496	4.940	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.486	4.910	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.931	9.660	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.911	9.620	PASS
Band30	10MHz	256QAM	27710	50RB#0	8.931	9.600	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.911	9.680	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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

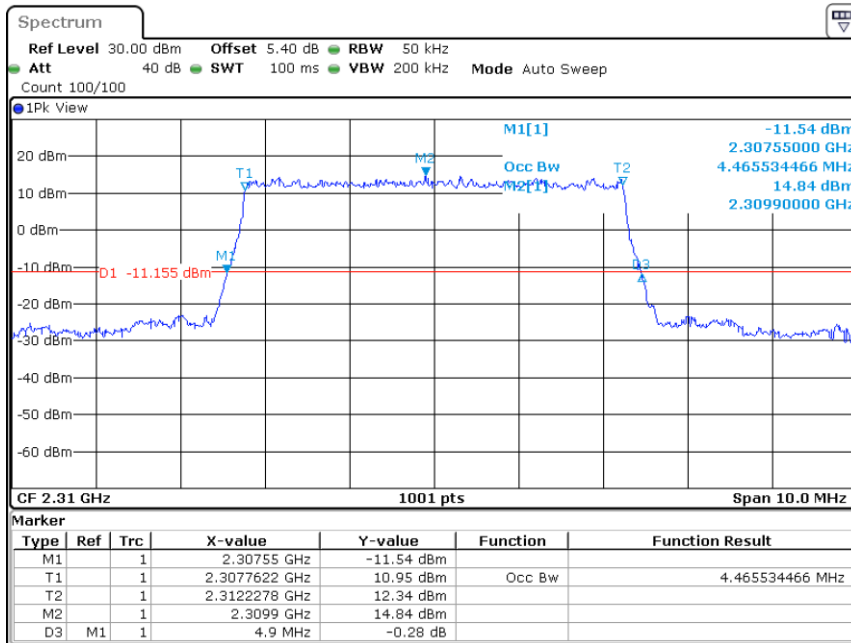
4.2. Test Plots



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

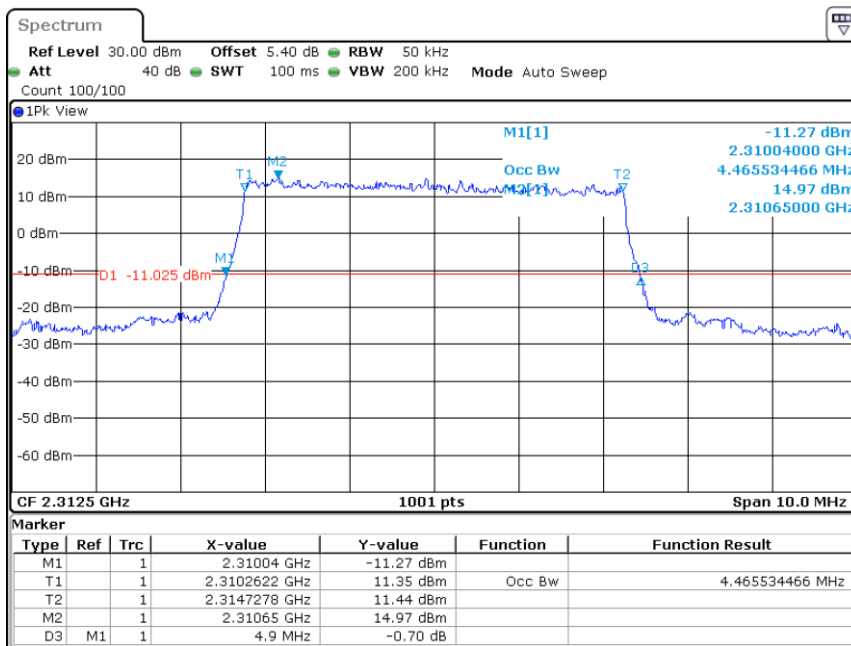
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Band30-5MHz-QPSK-27710-25RB#0-4.466



Date: 30.APR.2021 09:13:11

Band30-5MHz-QPSK-27735-25RB#0-4.466

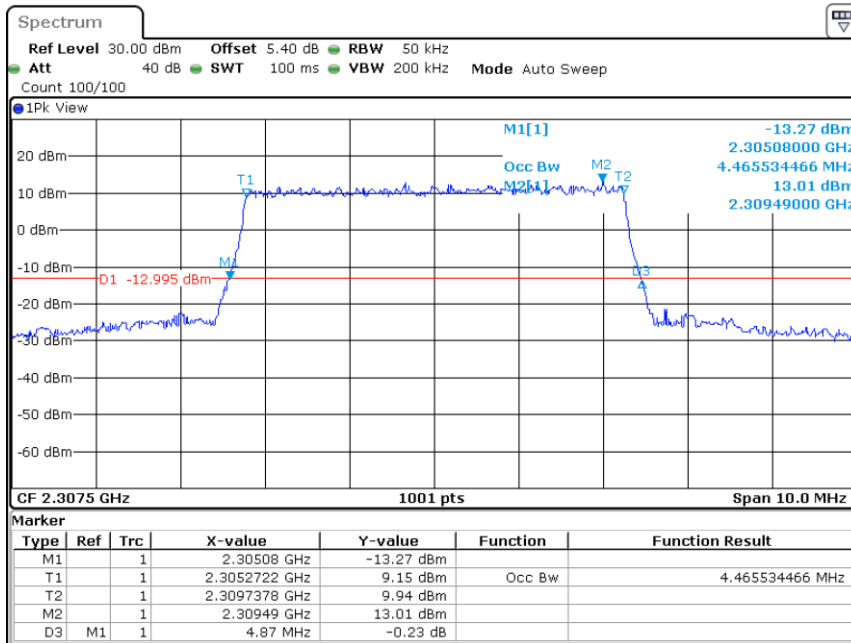


Date: 30.APR.2021 09:13:51



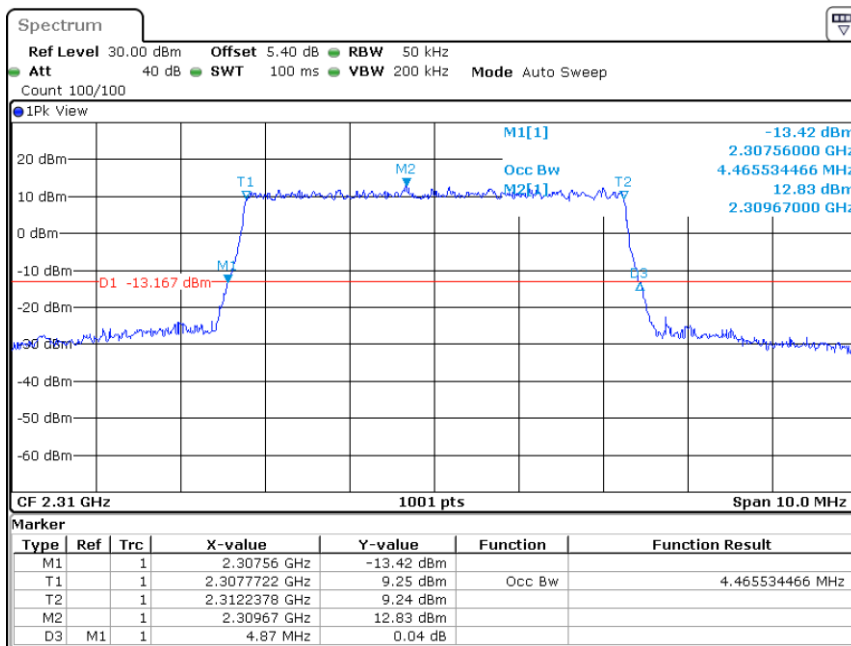
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

Band30-5MHz-64QAM-27685-25RB#0-4.466



Date: 30.APR 2021 09:28:39

Band30-5MHz-64QAM-27710-25RB#0-4.466

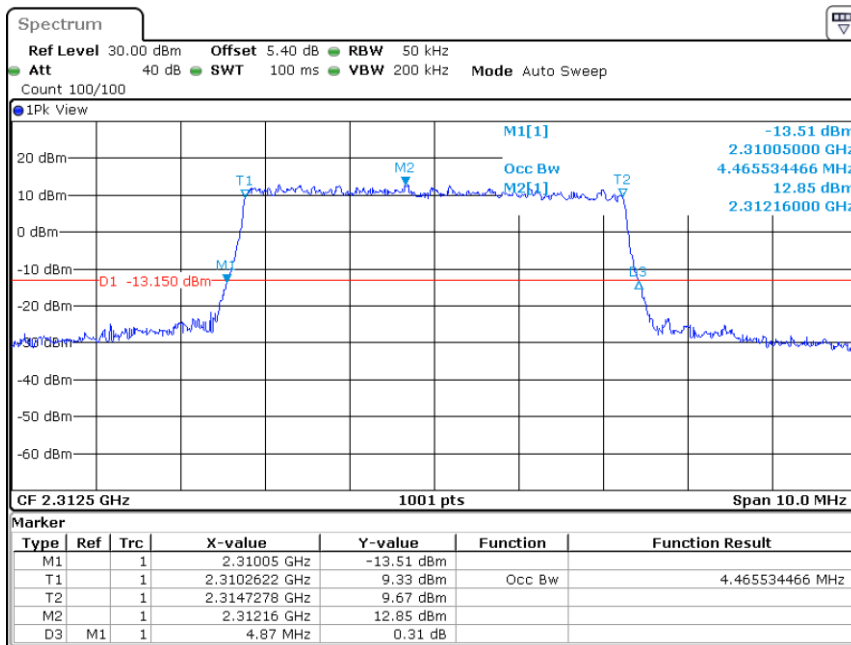


Date: 30.APR 2021 09:28:59



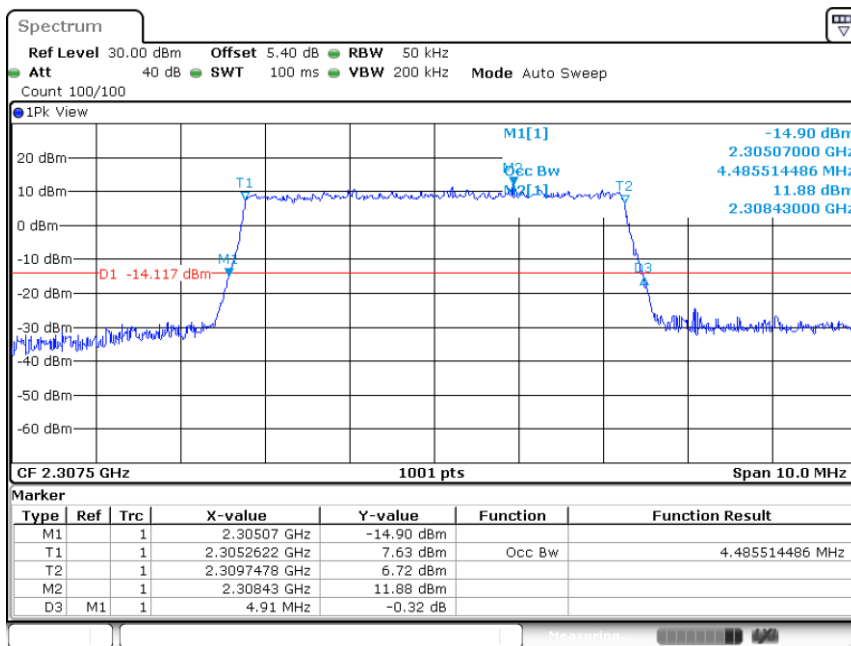
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

Band30-5MHz-64QAM-27735-25RB#0-4.466



Date: 30.APR.2021 09:29:19

Band30-5MHz-256QAM-27685-25RB#0-4.486



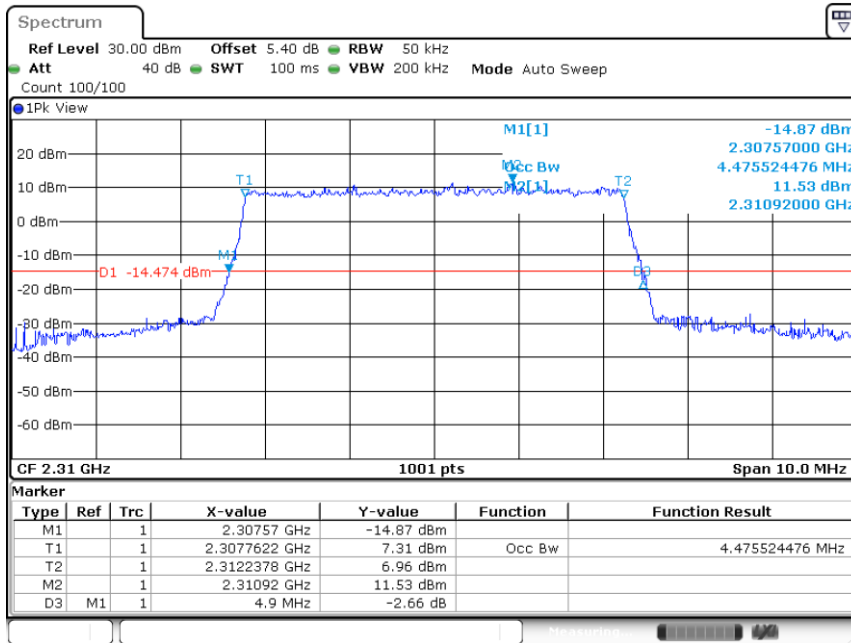
Date: 8.MAY.2021 03:45:03



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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

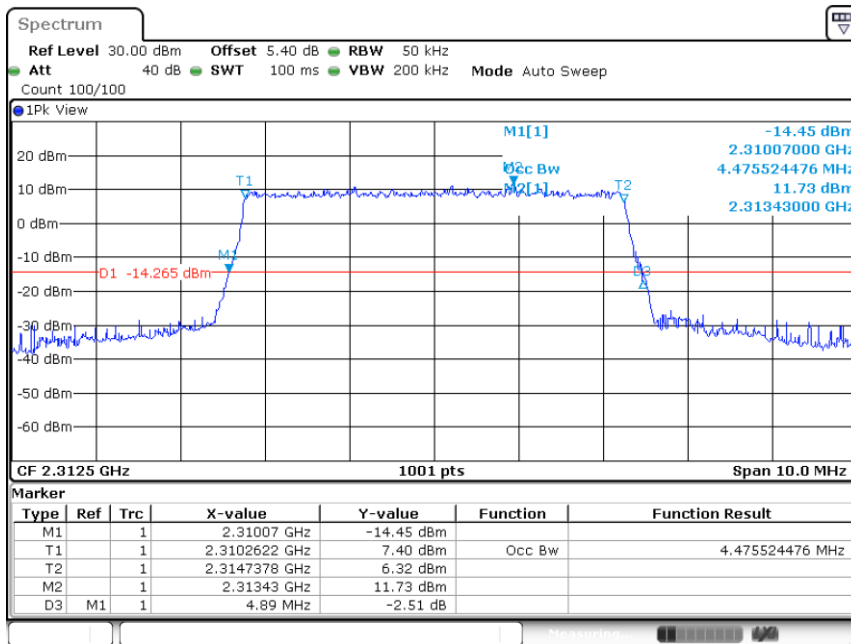
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Band30-5MHz-256QAM-27710-25RB#0-4.476



Date: 8.MAY.2021 03:45:23

Band30-5MHz-256QAM-27735-25RB#0-4.476

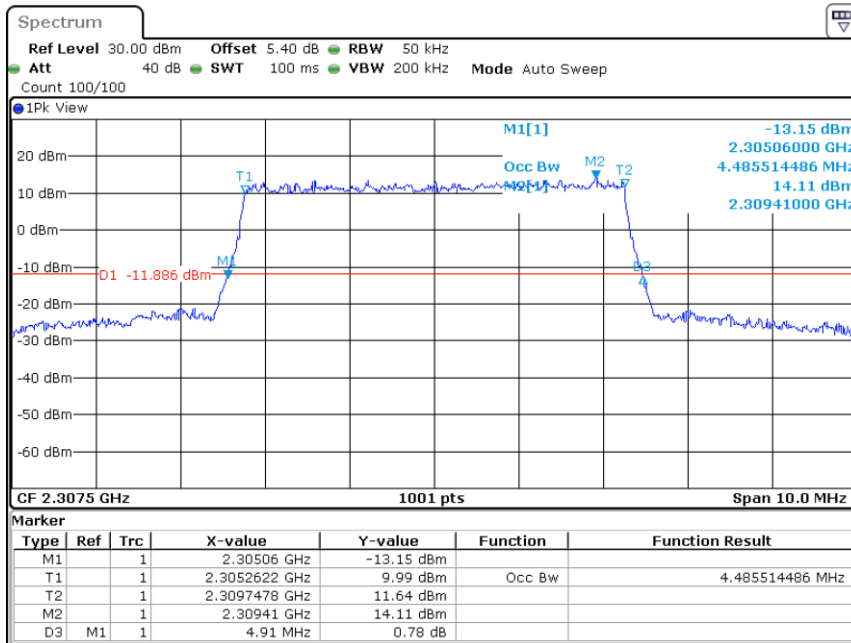


Date: 8.MAY.2021 03:45:43



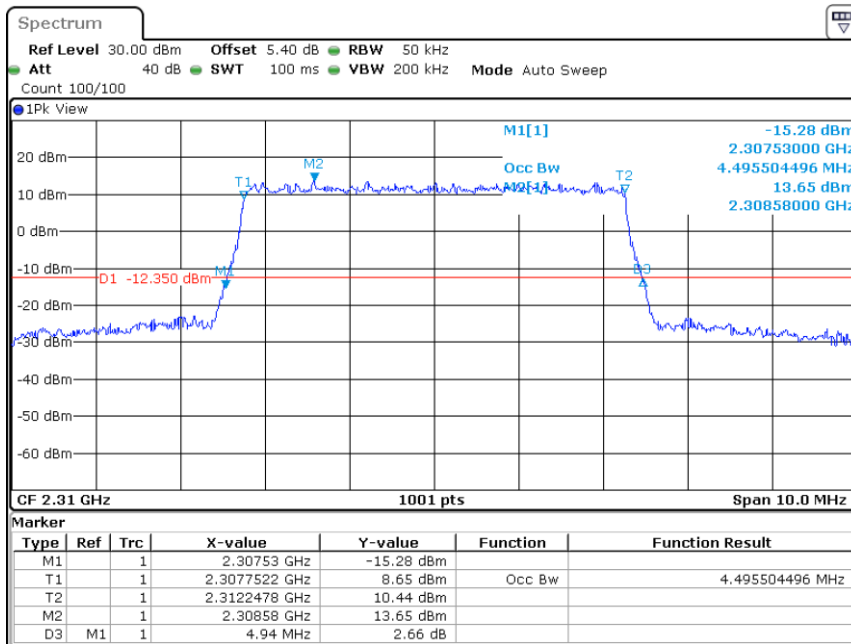
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

Band30-5MHz-16QAM-27685-25RB#0-4.486



Date: 30.APR 2021 09:12:51

Band30-5MHz-16QAM-27710-25RB#0-4.496

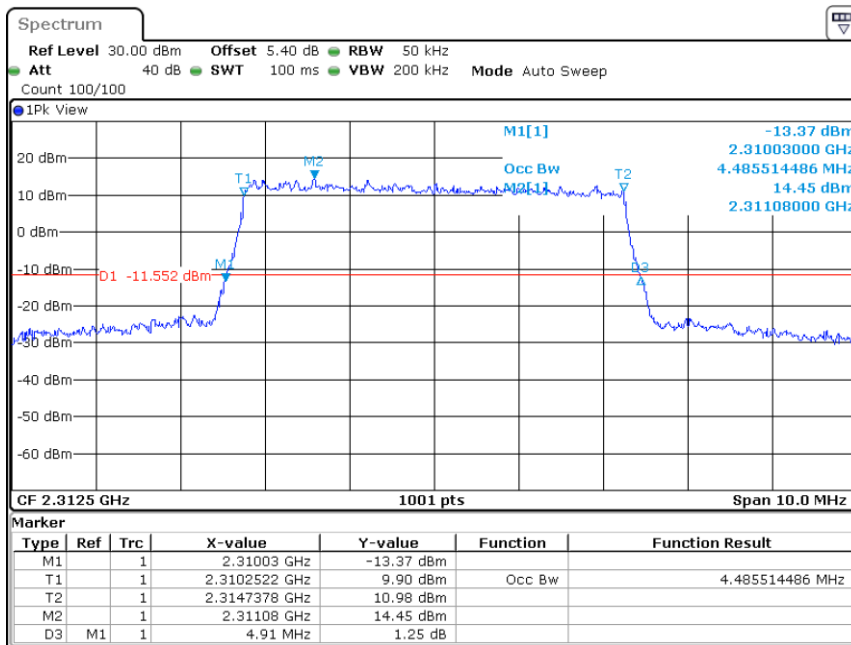


Date: 30.APR 2021 09:13:31



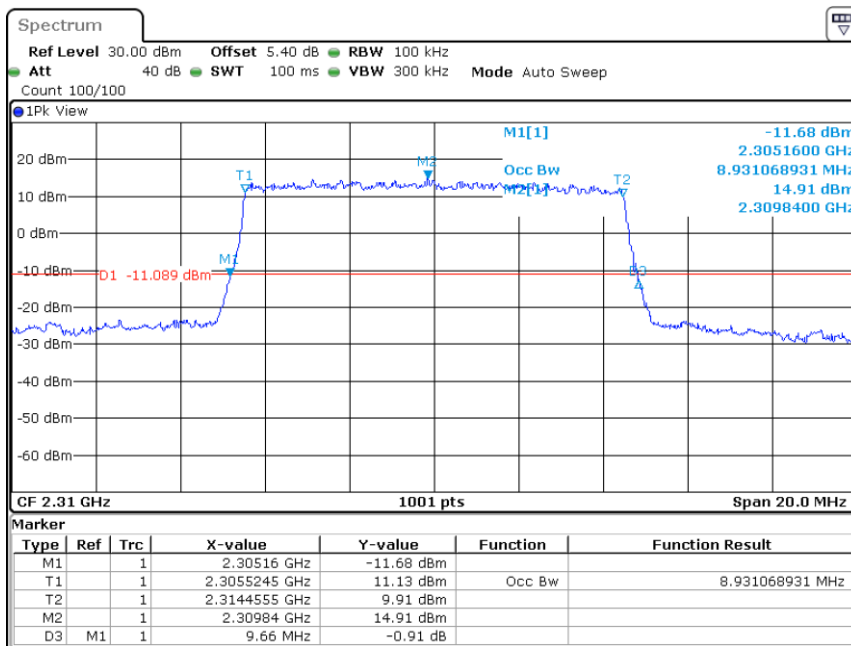
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

Band30-5MHz-16QAM-27735-25RB#0-4.486



Date: 30.APR 2021 09:14:11

Band30-10MHz-QPSK-27710-50RB#0-8.931

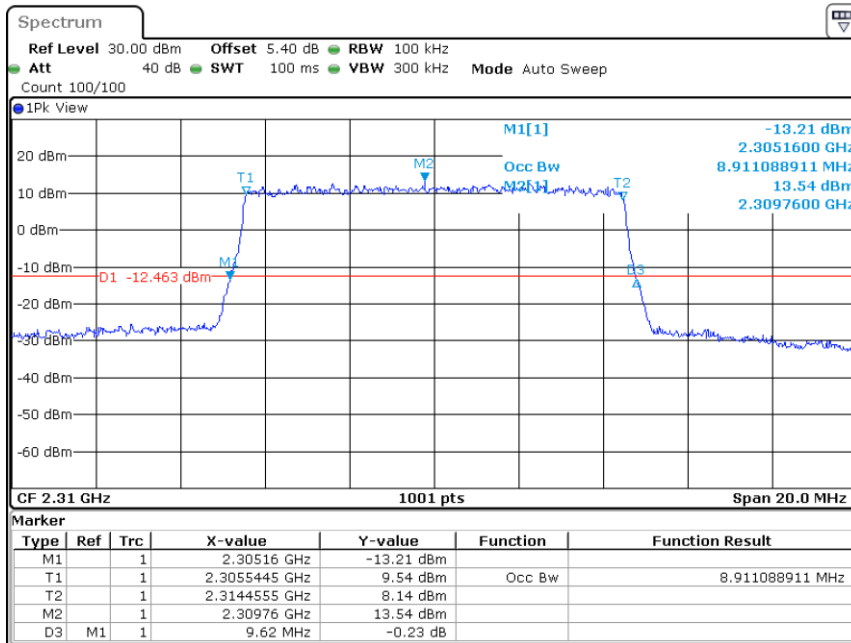


Date: 30.APR 2021 09:14:36



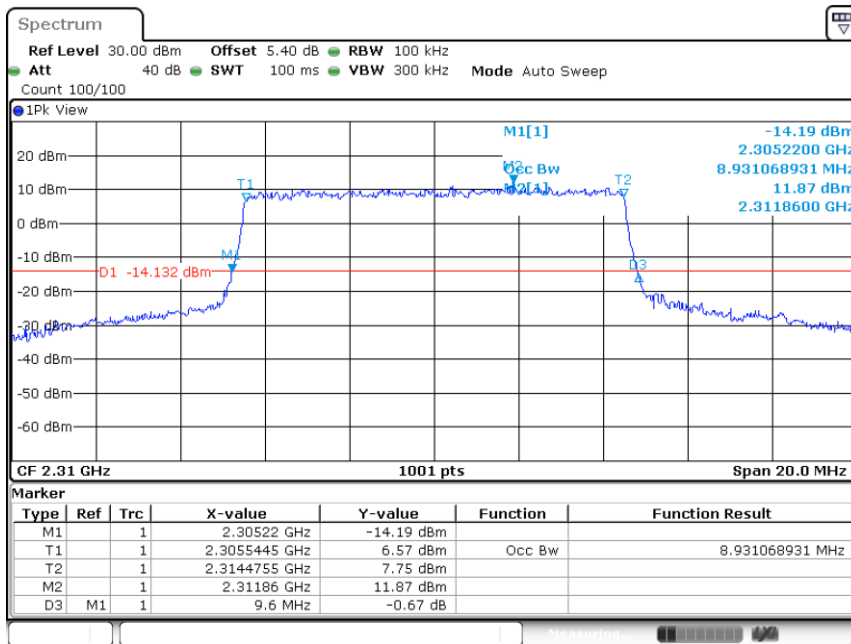
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

Band30-10MHz-64QAM-27710-50RB#0-8.911



Date: 30.APR.2021 09:29:45

Band30-10MHz-256QAM-27710-50RB#0-8.931

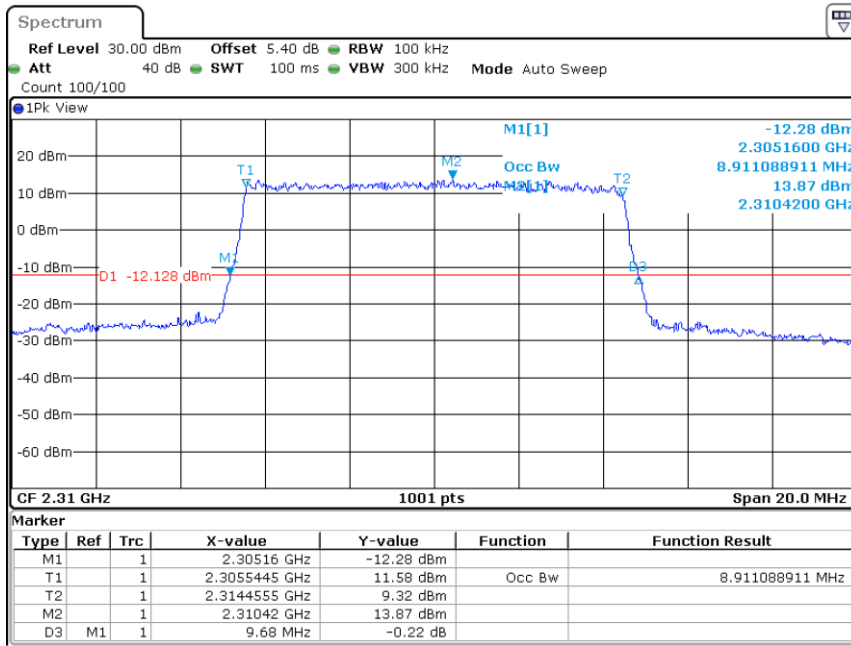


Date: 8.MAY.2021 03:46:08



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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

Band30-10MHz-16QAM-27710-50RB#0-8.911



Date: 30.APR.2021 09:14:56

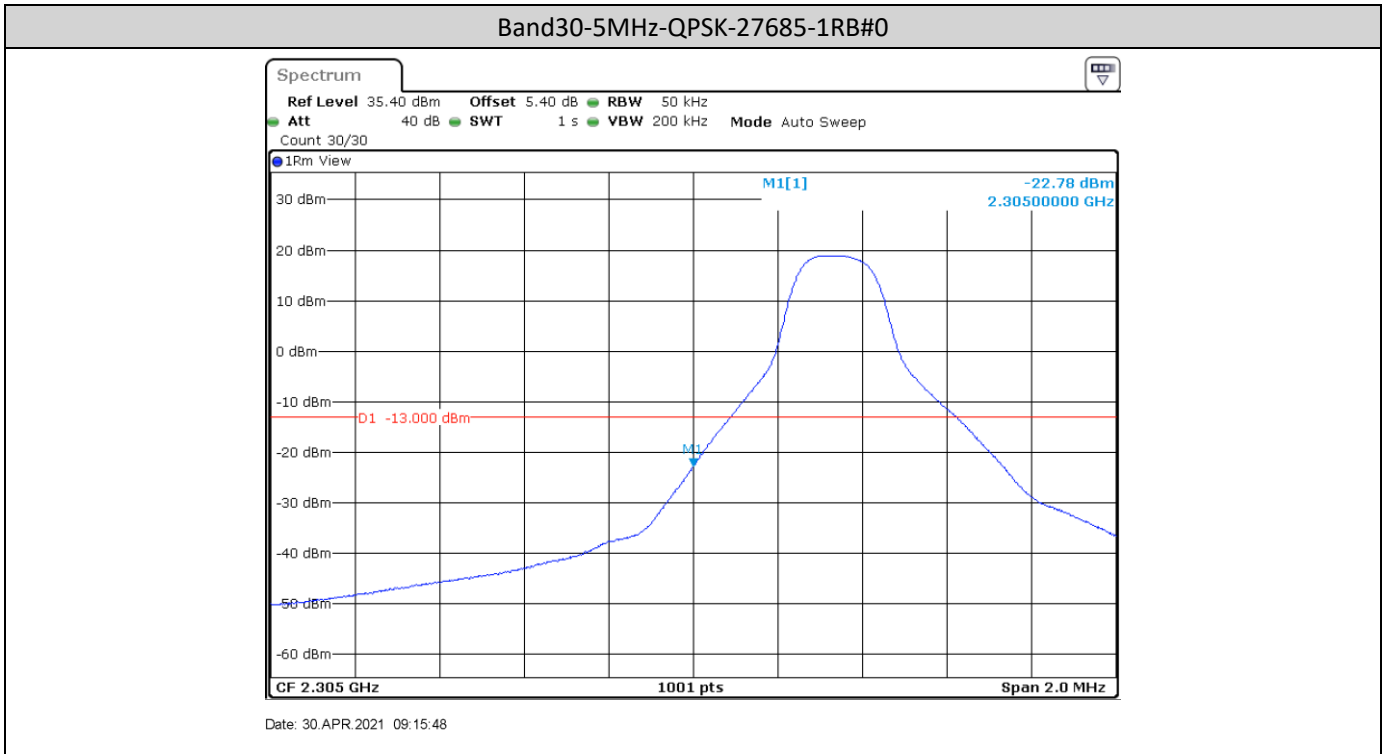


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

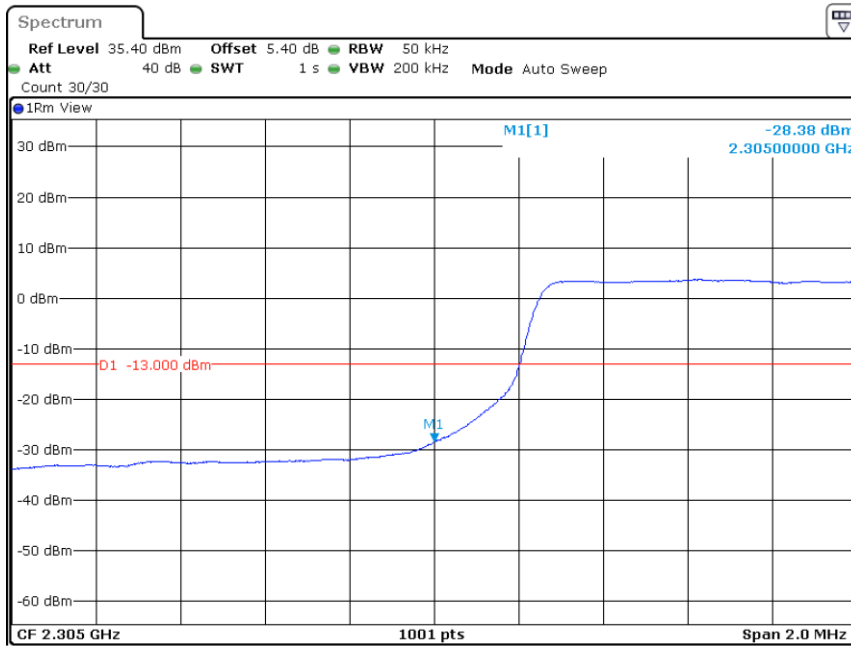
5. Band Edge Compliance

5.1. Test Plots



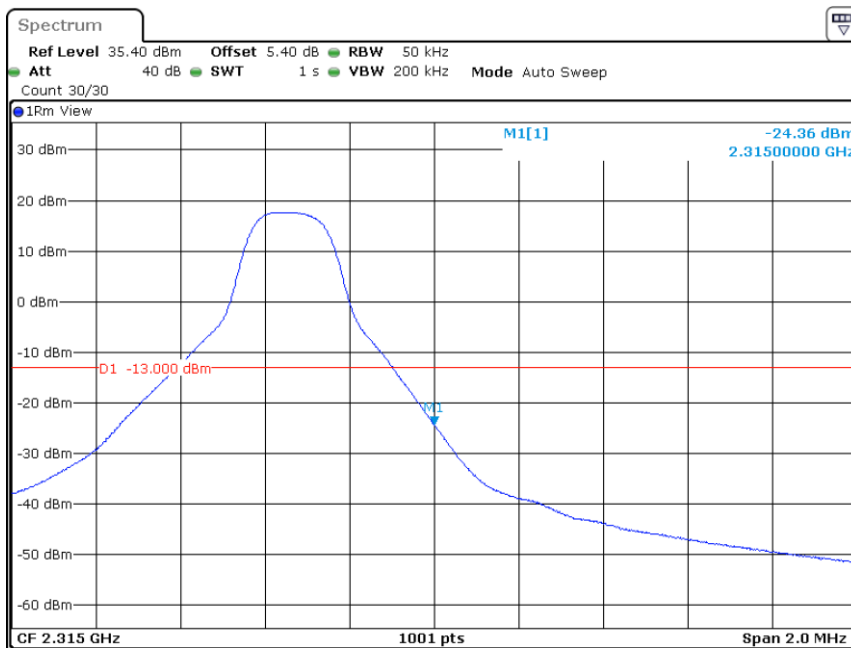
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Band30-5MHz-QPSK-27685-25RB#0



Date: 30.APR.2021 09:17:21

Band30-5MHz-QPSK-27735-1RB#24

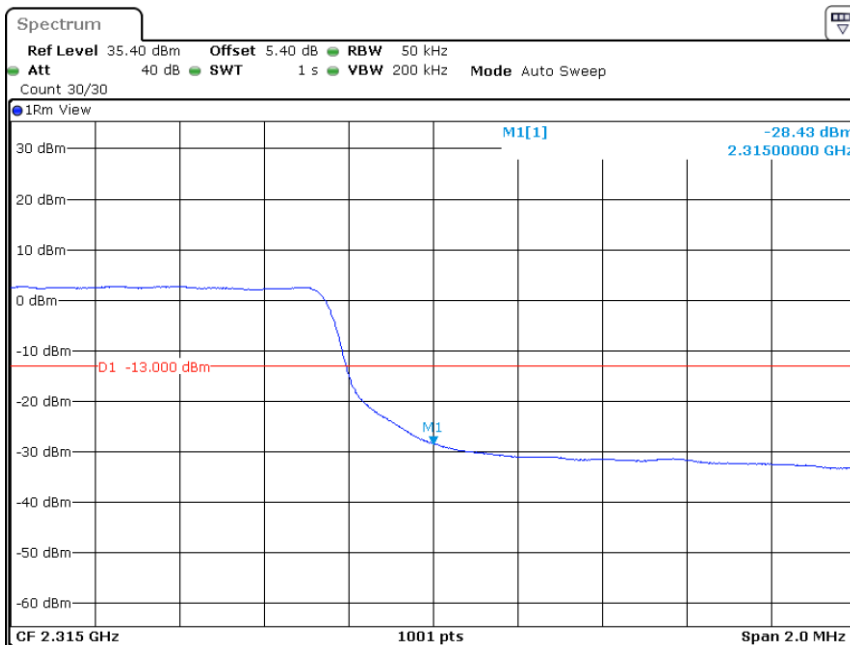


Date: 30.APR.2021 09:18:59



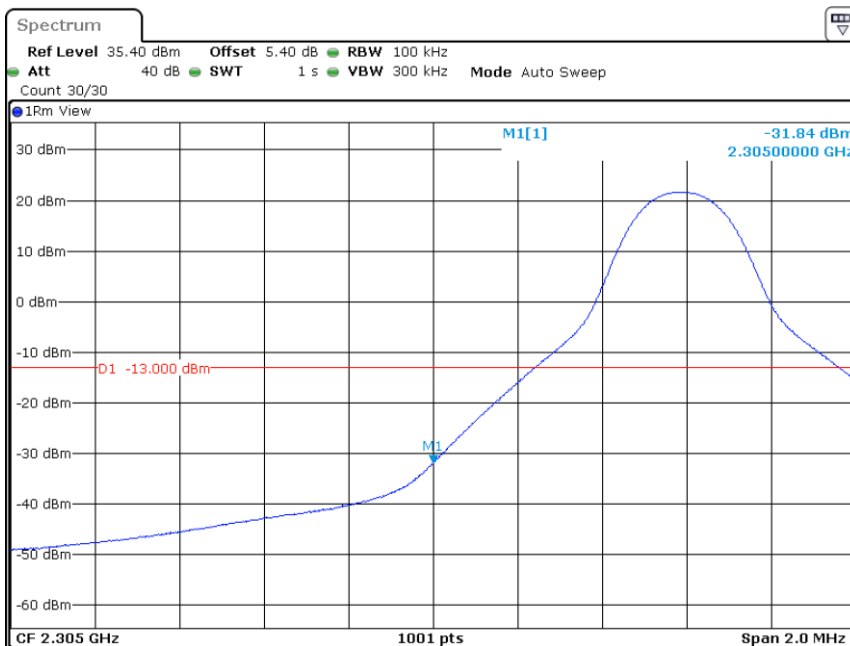
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

Band30-5MHz-QPSK-27735-25RB#0



Date: 30.APR.2021 09:20:32

Band30-10MHz-QPSK-27710_Left-1RB#0

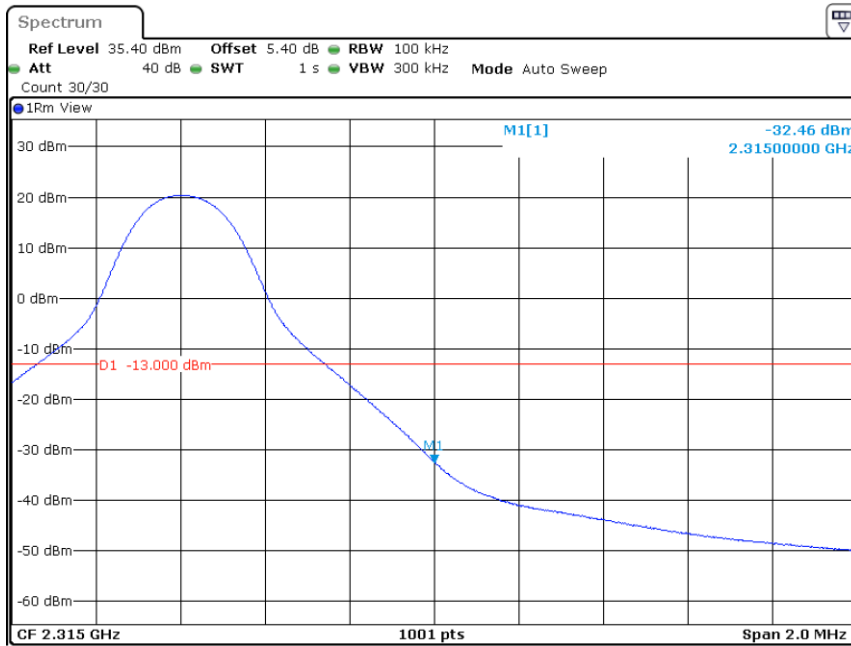


Date: 30.APR.2021 09:22:11



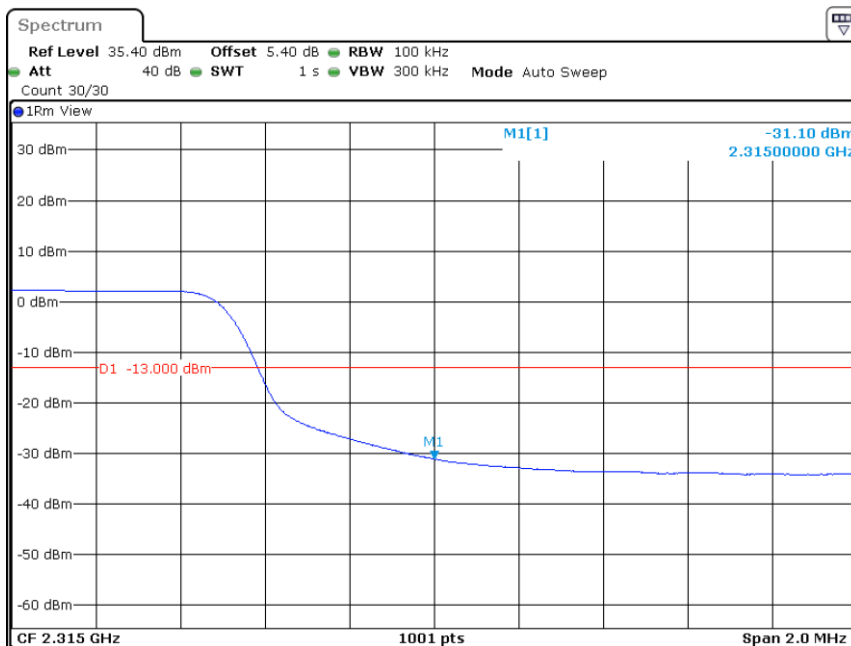
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

Band30-10MHz-QPSK-27710_Right-1RB#49



Date: 30.APR.2021 09:23:48

Band30-10MHz-QPSK-27710_Right-50RB#0



Date: 30.APR.2021 09:25:21



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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

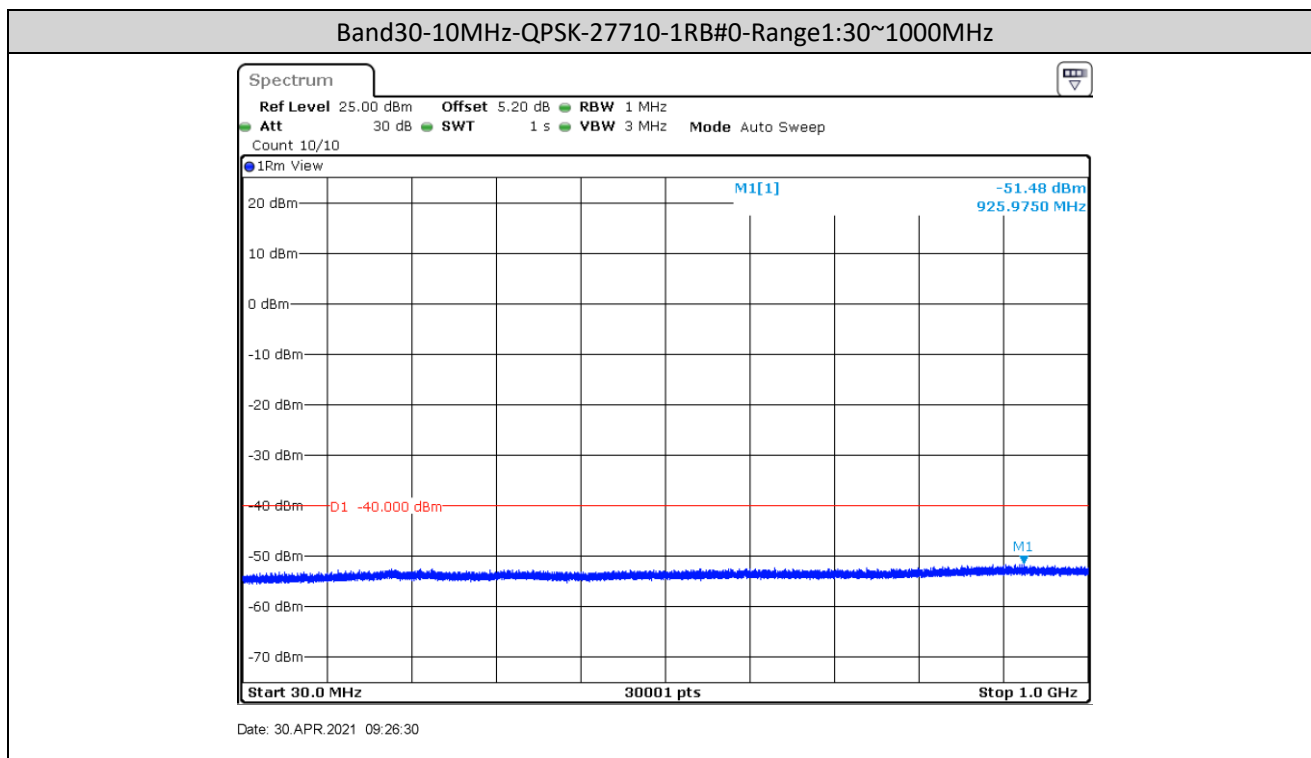
6. Spurious Emission at Antenna Terminal

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

Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

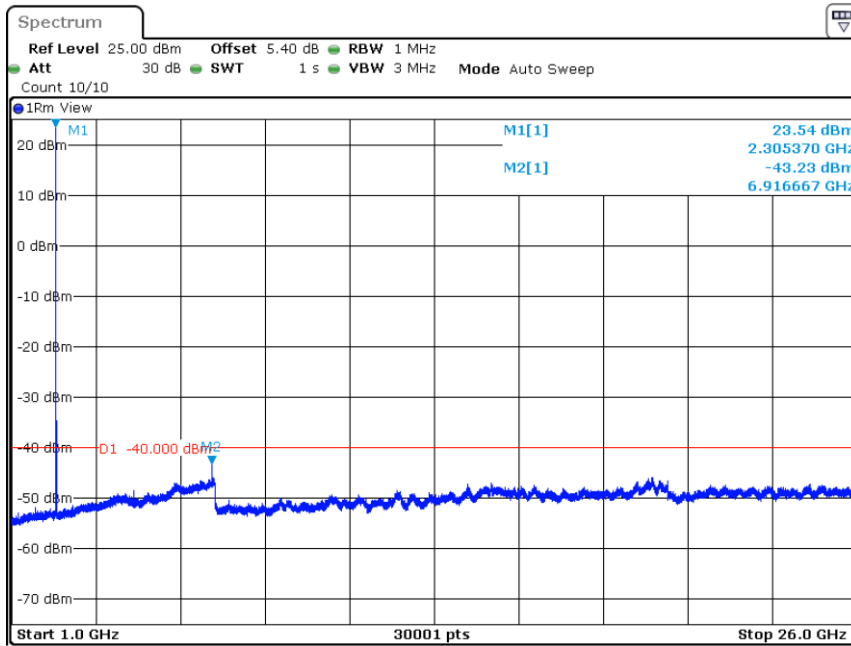
6.1. Test Plots



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

Band30-10MHz-QPSK-27710-1RB#0-Range2:1000~26000MHz



Date: 30.APR.2021 09:26:47



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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

7. Field Strength of Spurious Radiation

7.1. Test Band LTE_Band30 BW10MHz_TM1 ANT0

7.1.1. Test Channel Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.7190	-69.80	-54.04	-40.00	14.04	Horizontal
2	228.4719	-75.57	-64.30	-40.00	24.30	Horizontal
3	893.3917	-72.81	-52.71	-40.00	12.71	Horizontal
4	5298.5766	-56.68	-55.10	-40.00	15.10	Horizontal
5	12442.814	-60.82	-50.25	-40.00	10.25	Horizontal
6	17769.492	-57.70	-46.00	-40.00	6.00	Horizontal



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

7.2. Test Band LTE_Band30 BW10MHz_TM1 ANT0

7.2.1. Test Channel Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.5022	-71.94	-65.65	-40.00	25.65	Vertical
2	112.1146	-75.75	-60.61	-40.00	20.61	Vertical
3	766.6063	-73.58	-55.48	-40.00	15.48	Vertical
4	5248.5750	-56.29	-56.23	-40.00	16.23	Vertical
5	11571.7857	-57.37	-47.42	-40.00	7.42	Vertical
6	14699.890	-60.65	-47.02	-40.00	7.02	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 <http://www.sgs.com/en/Terms-and-Conditions.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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

7.3. Test Band LTE_Band30_TM1 ANT1

7.3.1. Test Channel Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.8160	-69.72	-53.96	-40.00	13.96	Horizontal
2	230.9455	-74.91	-63.43	-40.00	23.43	Horizontal
3	768.2069	-74.69	-56.33	-40.00	16.33	Horizontal
4	5299.0766	-56.25	-54.66	-40.00	14.66	Horizontal
5	12888.329	-60.42	-49.04	-40.00	9.04	Horizontal
6	16705.956	-64.54	-50.42	-40.00	10.42	Horizontal



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

7.4. Test Band LTE_Band30_TM1 ANT1

7.4.1. Test Channel Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.4052	-72.40	-66.19	-40.00	26.19	Vertical
2	117.9349	-75.85	-61.17	-40.00	21.17	Vertical
3	631.2846	-73.82	-57.54	-40.00	17.54	Vertical
4	1764.0382	-71.02	-51.93	-40.00	11.93	Vertical
5	5303.0768	-56.91	-55.87	-40.00	15.87	Vertical
6	14654.388	-60.48	-46.82	-40.00	6.82	Vertical

Remark:

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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

8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	-0.10	-0.000043	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	0.90	0.000390	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-0.10	-0.000043	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-2.10	-0.000909	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-0.40	-0.000173	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	0.10	0.000043	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-2.30	-0.000996	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-0.60	-0.000260	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	1.80	0.000779	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	-0.30	-0.000130	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	0.70	0.000303	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	0.10	0.000043	±2.5	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com