



Appendix B

E-UTRA Band 4





CONTENT

1.	EFFECTIVE (ISOTROPIC) RADIATED POWER.....	3
1.1.	TEST RESULT	3
2.	PEAK-TO-AVERAGE RATIO (CCDF).....	10
2.1.	TEST RESULT	10
2.2.	TEST PLOTS	10
3.	MODULATION CHARACTERISTICS	14
3.1.	TEST BAND = LTE BAND 4	14
3.2.	TEST MODE = LTE /TM1 20MHZ	14
3.2.1.	TEST CHANNEL = MCH	14
3.3.	TEST MODE = LTE /TM2 20MHZ	15
3.3.1.	TEST CHANNEL = MCH	15
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	16
4.1.	TEST RESULT	16
4.2.	TEST PLOTS	17
5.	BAND EDGE COMPLIANCE	35
5.1.	TEST PLOTS	35
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	59
6.1.	TEST PLOTS	59
7.	FIELD STRENGTH OF SPURIOUS RADIATION.....	65
7.1.	TEST BAND = LTE BAND 4	65
7.1.1.	TEST MODE =LTE/TM1 20MHZ.....	65
7.1.1.1.	TEST CHANNEL = LCH.....	65
7.1.1.2.	TEST CHANNEL = MCH	65
7.1.1.3.	TEST CHANNEL = HCH	66
8.	FREQUENCY STABILITY	67
8.1.	FREQUENCY VS VOLTAGE.....	67
8.2.	FREQUENCY VS TEMPERATURE	67



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
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



1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.14	22.36	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.27	22.49	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.12	22.34	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.21	22.43	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.27	22.49	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.24	22.46	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.33	21.55	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.22	22.44	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.34	22.56	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.21	22.43	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.32	22.54	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.37	22.59	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.33	22.55	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.36	21.58	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.20	22.42	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.32	22.54	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.20	22.42	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.27	22.49	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.34	22.56	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.28	22.50	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.29	21.51	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.38	21.60	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.58	21.80	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.45	21.67	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.38	21.60	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.46	21.68	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.35	21.57	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.37	20.59	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.51	21.73	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.53	21.75	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.48	21.70	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.43	21.65	30.00	PASS



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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 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



Band4	1.4MHz	16QAM	20175	3RB#1	22.47	21.69	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.42	21.64	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.45	20.67	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.36	21.58	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.58	21.80	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.37	21.59	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.36	21.58	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.34	21.56	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.44	21.66	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.46	20.68	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.16	22.38	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.19	22.41	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.17	22.39	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.26	21.48	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.30	21.52	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.27	21.49	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.29	21.51	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.27	22.49	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.27	22.49	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.25	22.47	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.30	21.52	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.32	21.54	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.28	21.50	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.30	21.52	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.23	22.45	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.23	22.45	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.21	22.43	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.27	21.49	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.30	21.52	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.26	21.48	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.25	21.47	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.44	21.66	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.38	21.60	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.33	21.55	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.31	20.53	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.33	20.55	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.31	20.53	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.23	20.45	30.00	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.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



Band4	3MHz	16QAM	20175	1RB#0	22.47	21.69	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.53	21.75	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.48	21.70	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.41	20.63	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.42	20.64	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.36	20.58	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.35	20.57	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.50	21.72	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.46	21.68	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.42	21.64	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.34	20.56	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.39	20.61	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.39	20.61	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.30	20.52	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.05	22.27	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.34	22.56	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.05	22.27	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.23	21.45	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.29	21.51	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.20	21.42	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.28	21.50	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.15	22.37	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.43	22.65	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.16	22.38	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.30	21.52	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.34	21.56	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.27	21.49	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.32	21.54	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.15	22.37	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.43	22.65	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.10	22.32	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.26	21.48	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.32	21.54	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.24	21.46	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.28	21.50	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.26	21.48	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.53	21.75	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.29	21.51	30.00	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



Band4	5MHz	16QAM	19975	12RB#0	21.26	20.48	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.34	20.56	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.31	20.53	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.26	20.48	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.44	21.66	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.64	21.86	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.33	21.55	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.44	20.66	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.43	20.65	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.37	20.59	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.35	20.57	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.37	21.59	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.61	21.83	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.32	21.54	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.39	20.61	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.45	20.67	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.37	20.59	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.33	20.55	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.15	22.37	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.30	22.52	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.20	22.42	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.32	21.54	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.28	21.50	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.36	21.58	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.31	21.53	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.23	22.45	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.36	22.58	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.25	22.47	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.40	21.62	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.36	21.58	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.32	21.54	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.37	21.59	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.23	22.45	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.37	22.59	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.19	22.41	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.37	21.59	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.35	21.57	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.32	21.54	30.00	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



Band4	10MHz	QPSK	20350	50RB#0	22.36	21.58	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.40	21.62	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.45	21.67	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.31	21.53	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.27	20.49	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.30	20.52	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.36	20.58	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.34	20.56	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.37	21.59	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.52	21.74	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.40	21.62	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.44	20.66	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.41	20.63	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.38	20.60	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.42	20.64	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.43	21.65	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.64	21.86	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.45	21.67	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.43	20.65	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.40	20.62	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.36	20.58	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.40	20.62	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.10	22.32	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.24	22.46	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.17	22.39	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.23	21.45	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.29	21.51	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.30	21.52	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.29	21.51	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.22	22.44	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.30	22.52	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.20	22.42	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.39	21.61	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.37	21.59	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.39	21.61	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.40	21.62	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.23	22.45	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.33	22.55	30.00	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



Band4	15MHz	QPSK	20325	1RB#74	23.18	22.40	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	22.36	21.58	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	22.37	21.59	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	22.33	21.55	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.37	21.59	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.43	21.65	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.35	21.57	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.41	21.63	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	21.30	20.52	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.36	20.58	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.35	20.57	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.29	20.51	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.36	21.58	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.46	21.68	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.41	21.63	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	21.47	20.69	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.44	20.66	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	21.44	20.66	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.44	20.66	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.37	21.59	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.50	21.72	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.47	21.69	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.43	20.65	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.46	20.68	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	21.41	20.63	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.43	20.65	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.08	22.30	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.35	22.57	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.12	22.34	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.28	21.50	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.34	21.56	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.30	21.52	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.26	21.48	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.09	22.31	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.36	22.58	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.14	22.36	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.47	21.69	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.38	21.60	30.00	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.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



Band4	20MHz	QPSK	20175	50RB#50	22.32	21.54	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.39	21.61	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.14	22.36	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.40	22.62	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.09	22.31	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.36	21.58	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.38	21.60	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.35	21.57	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.35	21.57	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.26	21.48	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.46	21.68	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.25	21.47	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.28	20.50	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.37	20.59	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.31	20.53	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.25	20.47	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.22	21.44	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.64	21.86	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.33	21.55	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.49	20.71	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.41	20.63	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.38	20.60	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.42	20.64	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.43	21.65	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.69	21.91	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.42	21.64	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.40	20.62	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.40	20.62	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.41	20.63	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.40	20.62	30.00	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + 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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC Laboratory)

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

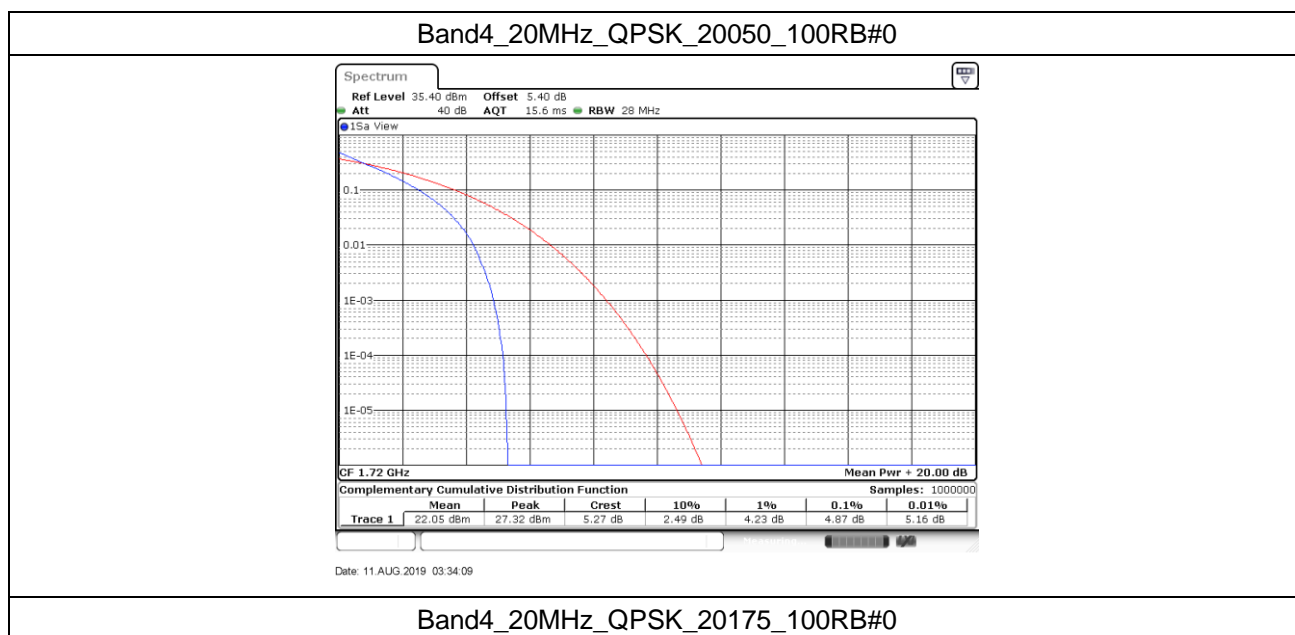


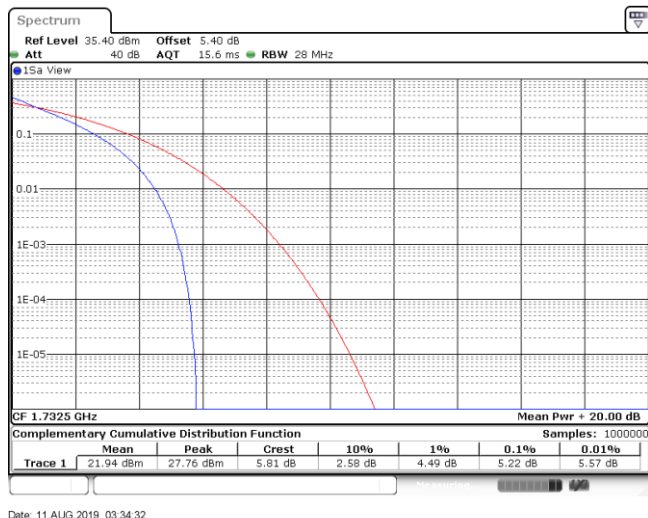
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	4.87	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.22	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.36	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.74	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.09	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.20	13	PASS

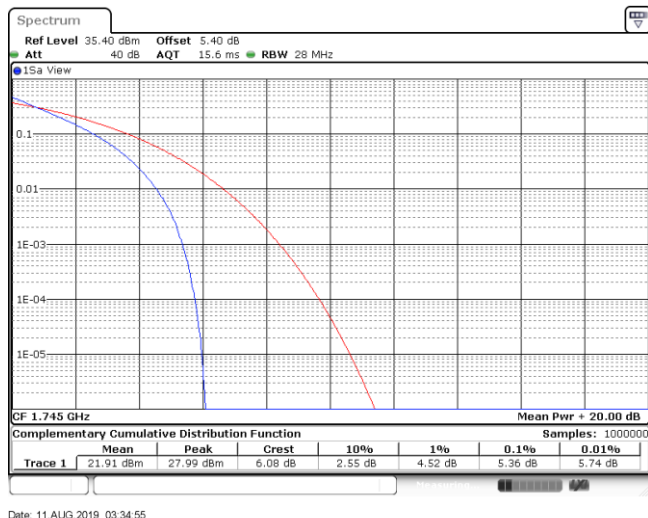
2.2. Test Plots





Date: 11 AUG. 2019 03:34:32

Band4_20MHz_QPSK_20300_100RB#0



Date: 11 AUG. 2019 03:34:55

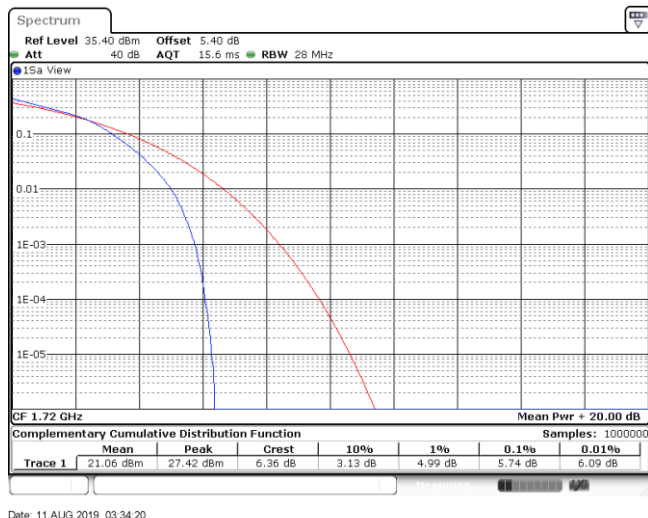
Band4_20MHz_16QAM_20050_100RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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.

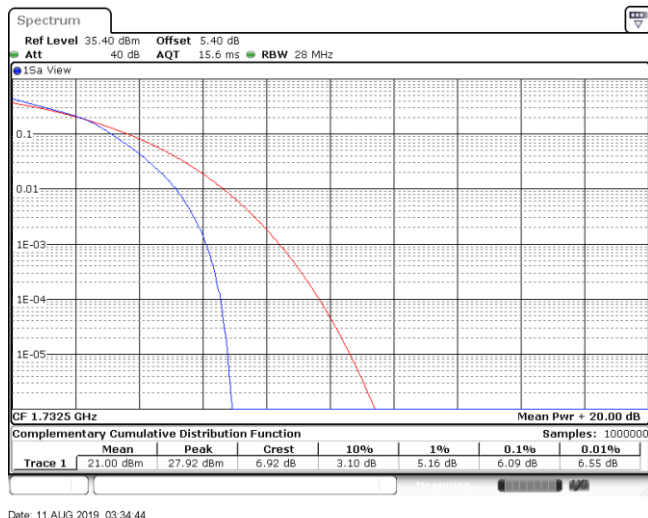
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCIC Laboratory)

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



Date: 11 AUG. 2019 03:34:20

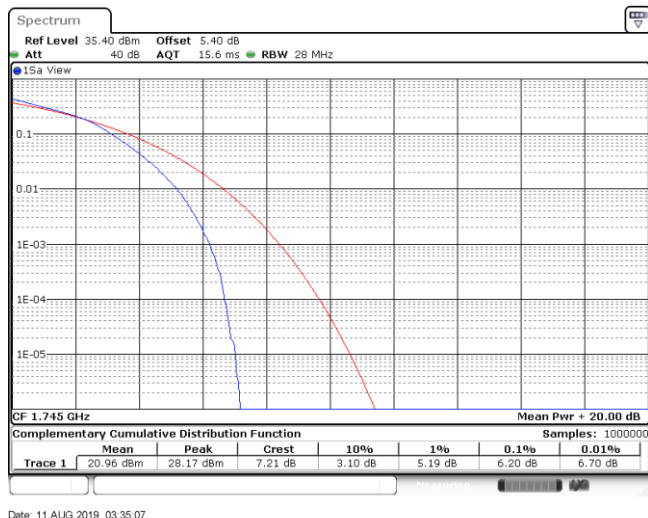
Band4_20MHz_16QAM_20175_100RB#0



Date: 11 AUG. 2019 03:34:44

Band4_20MHz_16QAM_20300_100RB#0





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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.

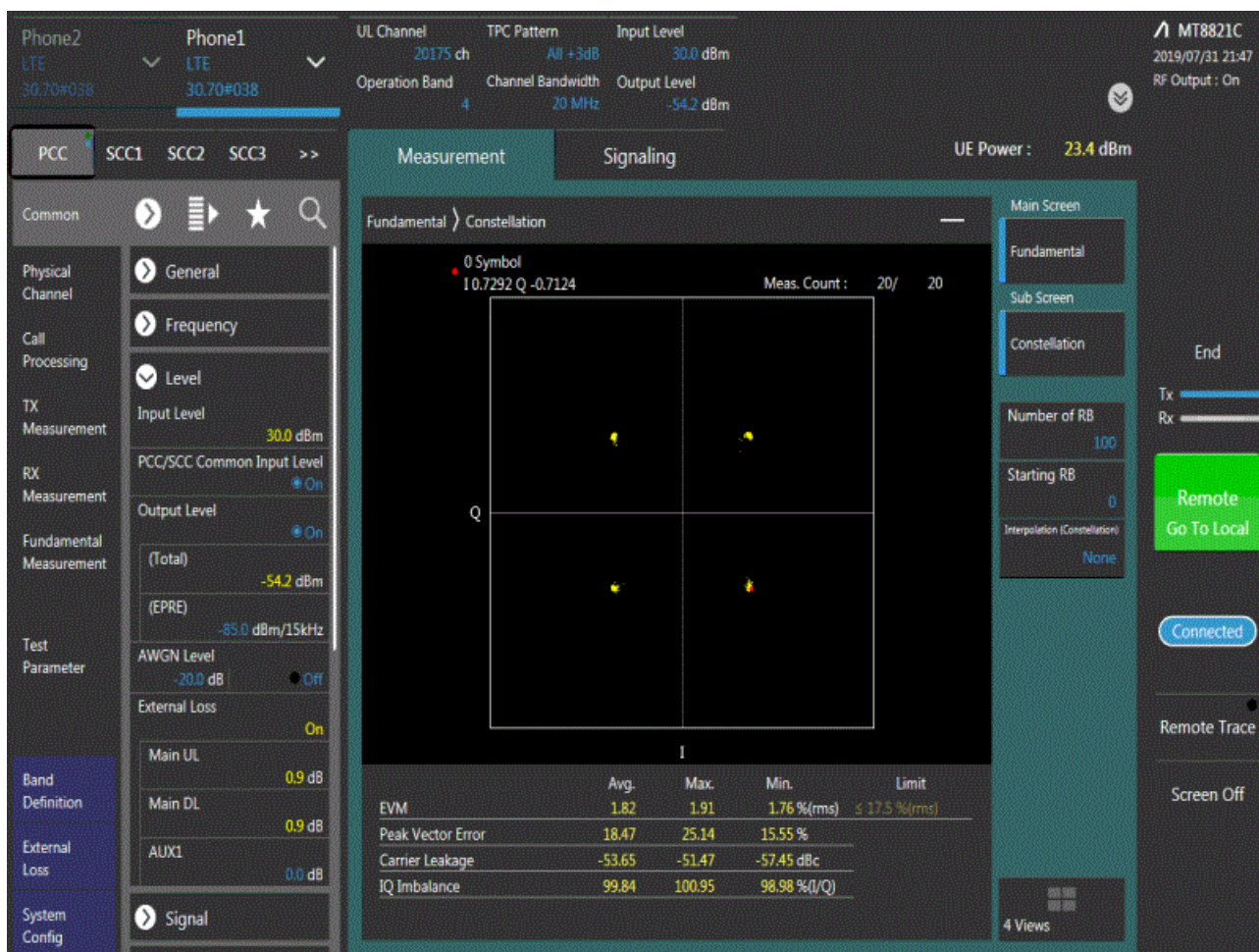
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

3. Modulation Characteristics

3.1. Test Band = LTE Band 4

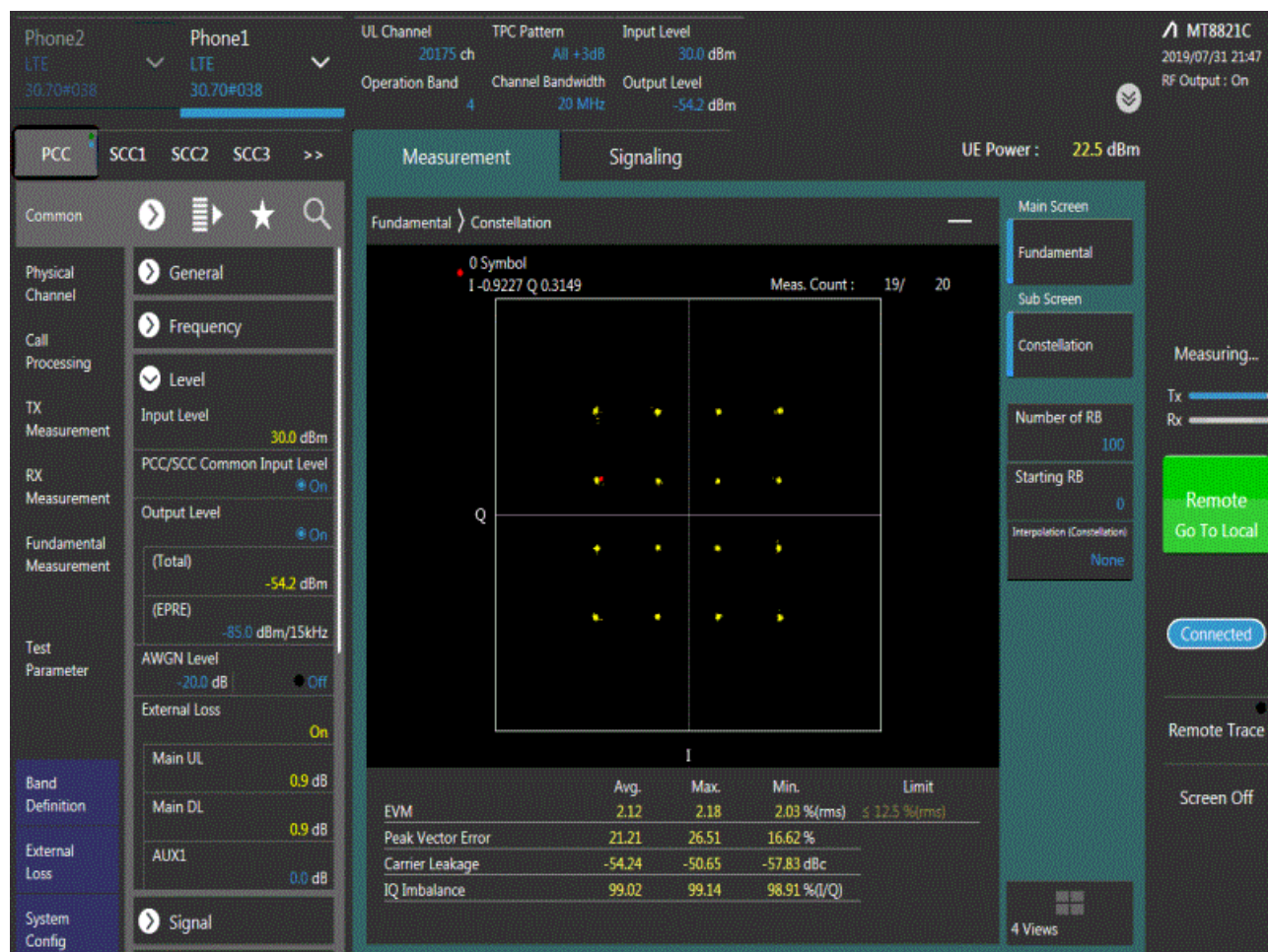
3.2. Test Mode = LTE /TM1 20MHz

3.2.1. Test Channel = MCH



3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = MCH



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory.

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed on the leaf, 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 the document does not exonerate parties to a contract from their own obligations and liabilities. The Company's obligation to its Client is limited to the amount of the fee paid, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

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



4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.088	1.287	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.091	1.275	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.088	1.278	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.317	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.082	1.287	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.290	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	2.928	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.691	2.910	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.685	2.916	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.673	2.904	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	2.898	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.673	2.898	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.476	5.070	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	5.070	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	5.060	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.496	5.100	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.496	5.060	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.496	5.110	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.951	9.900	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.900	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.951	9.860	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.951	9.880	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.951	9.960	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.951	9.900	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.487	15.480	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.487	14.880	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.457	15.090	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.516	15.030	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.516	14.970	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.487	15.030	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.902	19.920	PASS



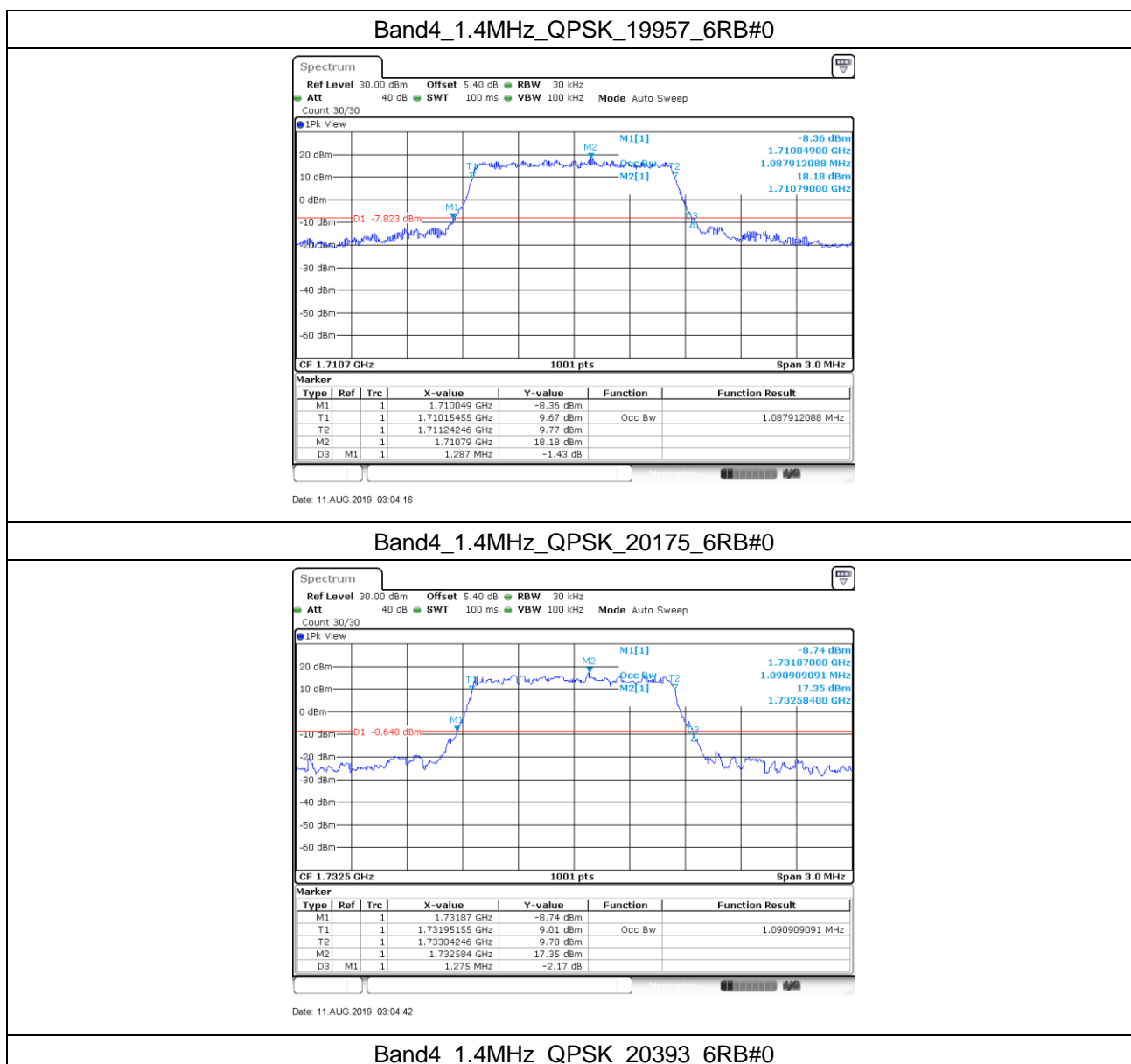
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 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



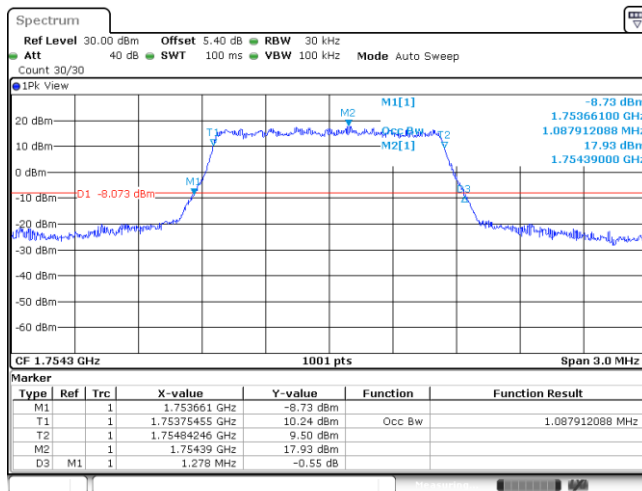
Band4	20MHz	QPSK	20175	100RB#0	17.902	19.680	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.902	19.640	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.942	19.600	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.902	19.800	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.942	19.680	PASS

4.2. Test Plots



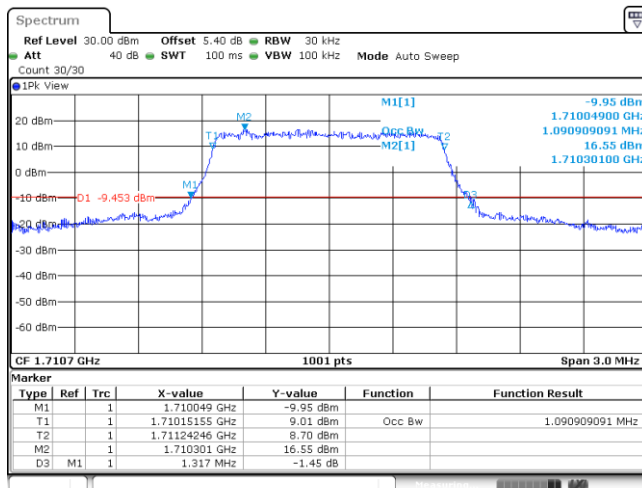
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 11 AUG 2019 03:05:08

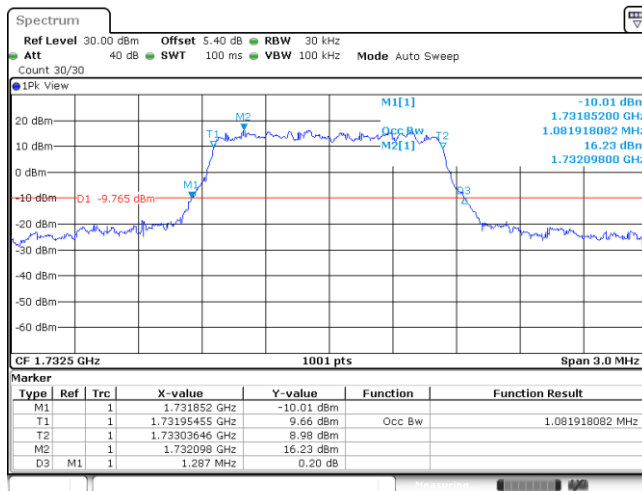
Band4_1.4MHz_16QAM_19957_6RB#0



Date: 11 AUG 2019 03:04:29

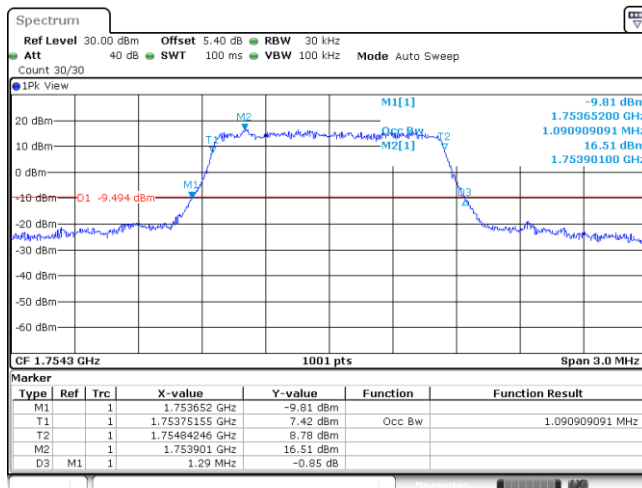
Band4_1.4MHz_16QAM_20175_6RB#0





Date: 11 AUG 2019 03:04:55

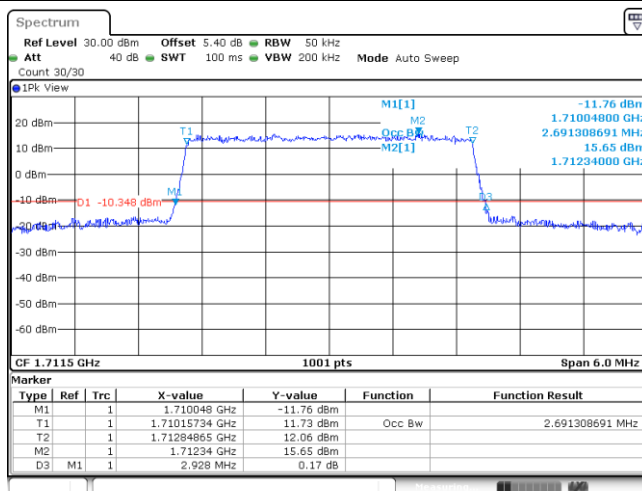
Band4_1.4MHz_16QAM_20393_6RB#0



Date: 11 AUG 2019 03:05:21

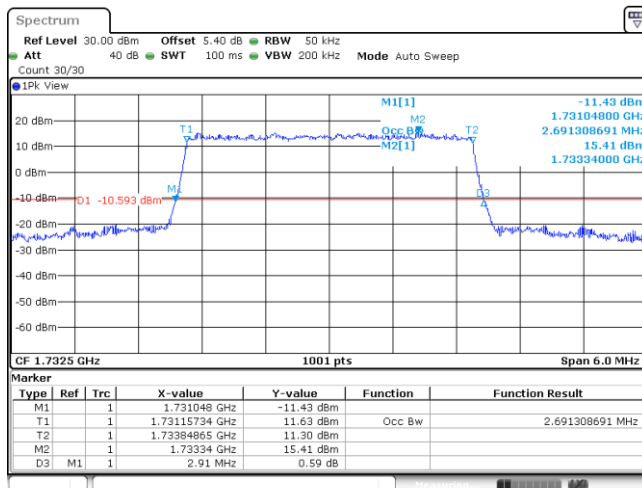
Band4_3MHz_QPSK_19965_15RB#0





Date: 11 AUG 2019 03:05:39

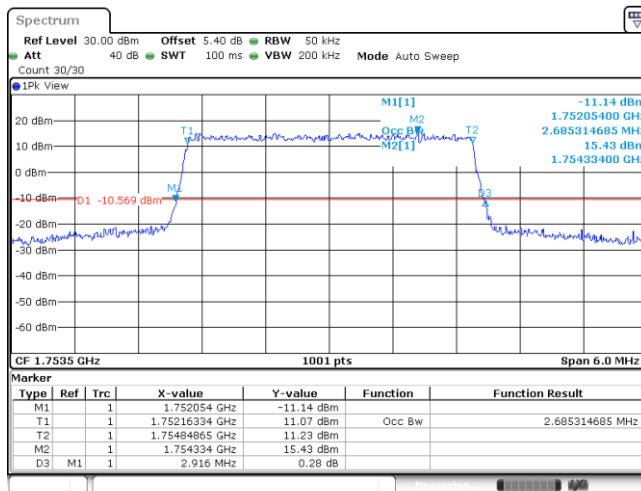
Band4_3MHz_QPSK_20175_15RB#0



Date: 11 AUG 2019 03:06:05

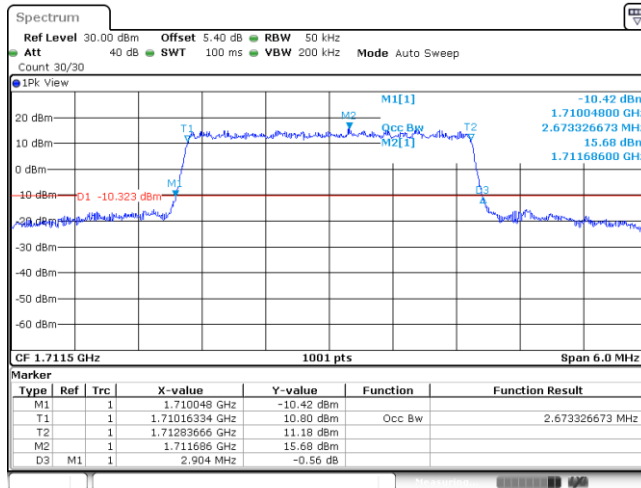
Band4_3MHz_QPSK_20385_15RB#0





Date: 11 AUG 2019 03:06:31

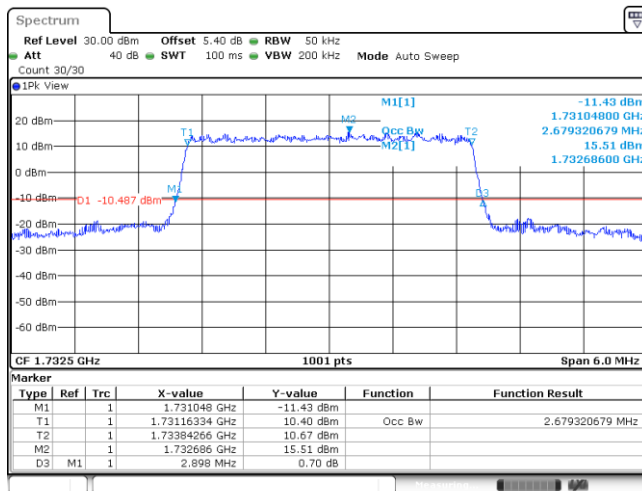
Band4_3MHz_16QAM_19965_15RB#0



Date: 11 AUG 2019 03:05:52

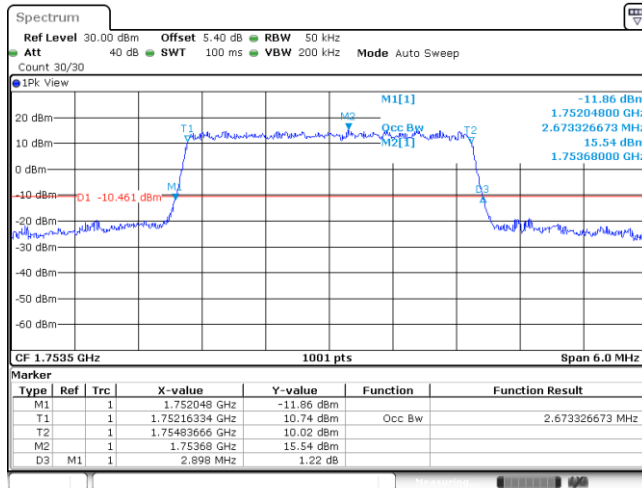
Band4_3MHz_16QAM_20175_15RB#0





Date: 11 AUG 2019 03:06:18

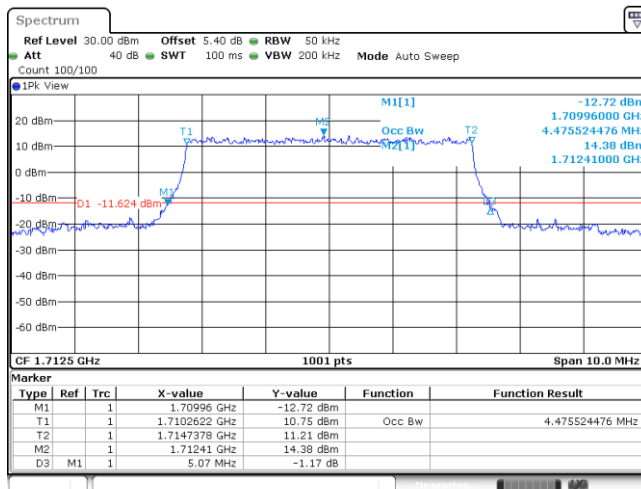
Band4_3MHz_16QAM_20385_15RB#0



Date: 11 AUG 2019 03:06:44

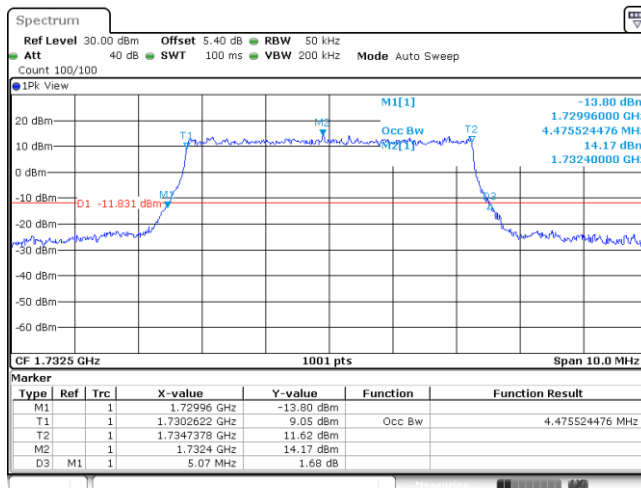
Band4_5MHz_QPSK_19975_25RB#0





Date: 11 AUG 2019 03:07:08

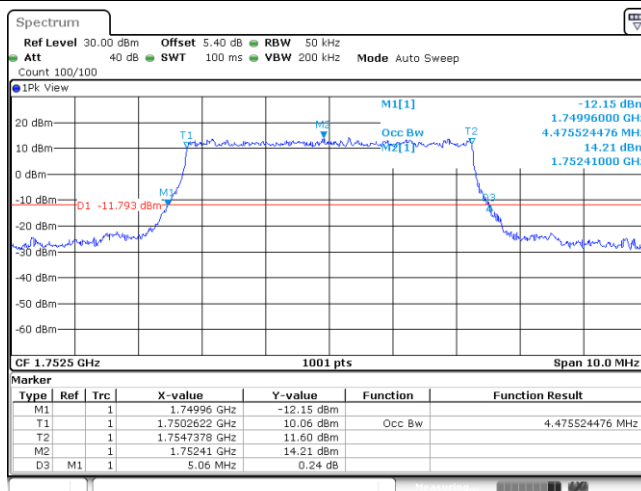
Band4_5MHz_QPSK_20175_25RB#0



Date: 11 AUG 2019 03:07:48

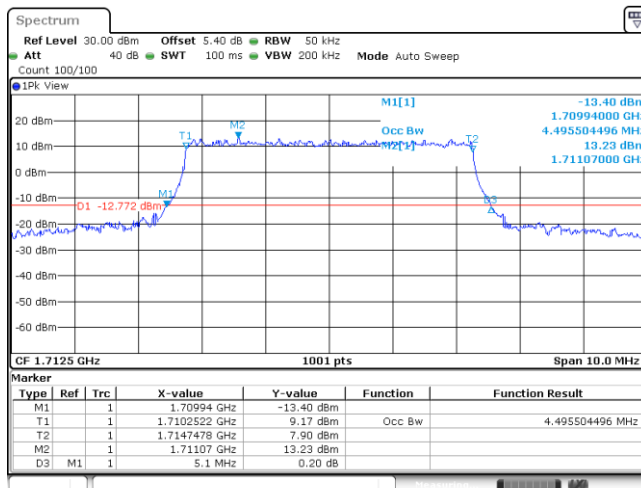
Band4_5MHz_QPSK_20375_25RB#0





Date: 11 AUG 2019 03:08:29

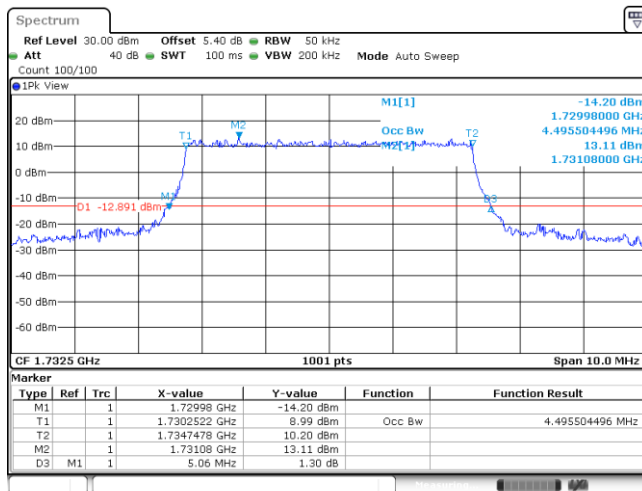
Band4_5MHz_16QAM_19975_25RB#0



Date: 11 AUG 2019 03:07:28

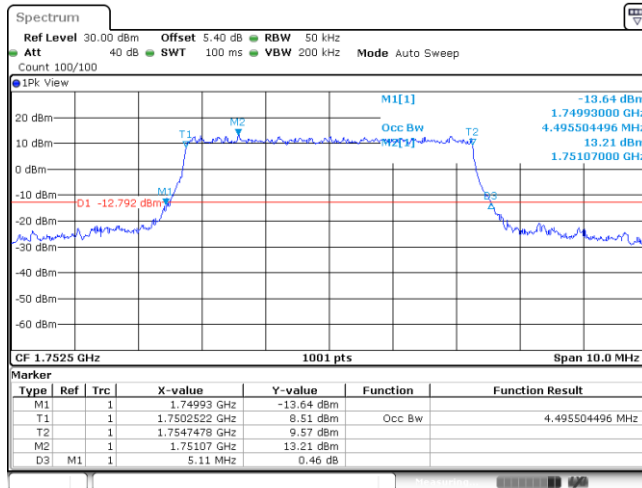
Band4_5MHz_16QAM_20175_25RB#0





Date: 11 AUG 2019 03:08:09

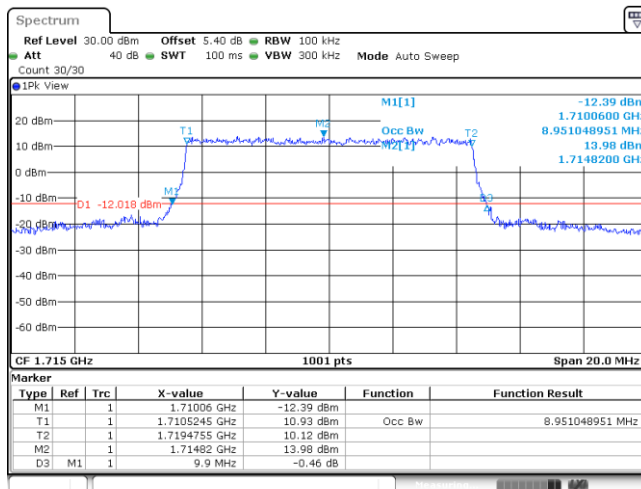
Band4_5MHz_16QAM_20375_25RB#0



Date: 11 AUG 2019 03:08:49

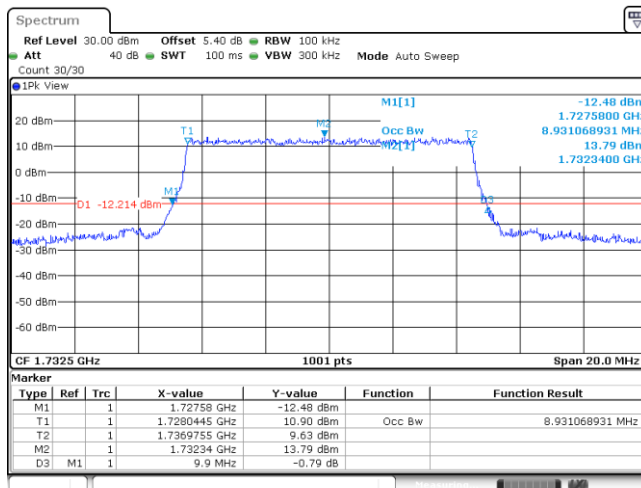
Band4_10MHz_QPSK_20000_50RB#0





Date: 11 AUG 2019 03:09:06

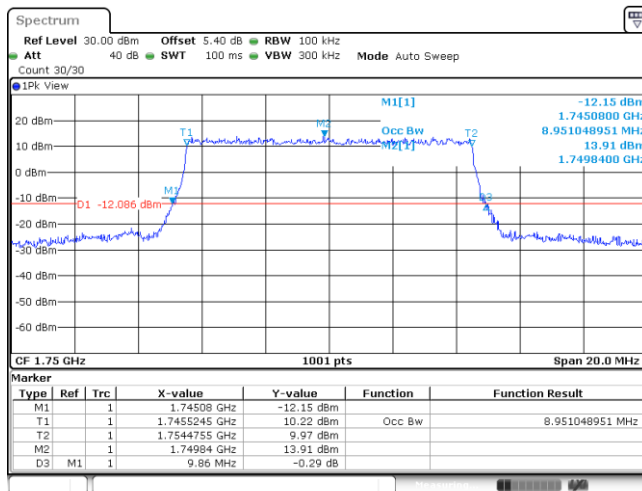
Band4_10MHz_QPSK_20175_50RB#0



Date: 11 AUG 2019 03:09:33

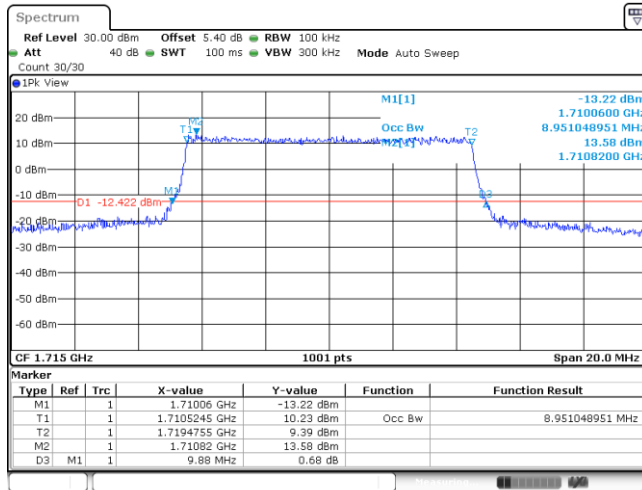
Band4_10MHz_QPSK_20350_50RB#0





Date: 11 AUG. 2019 03:09:59

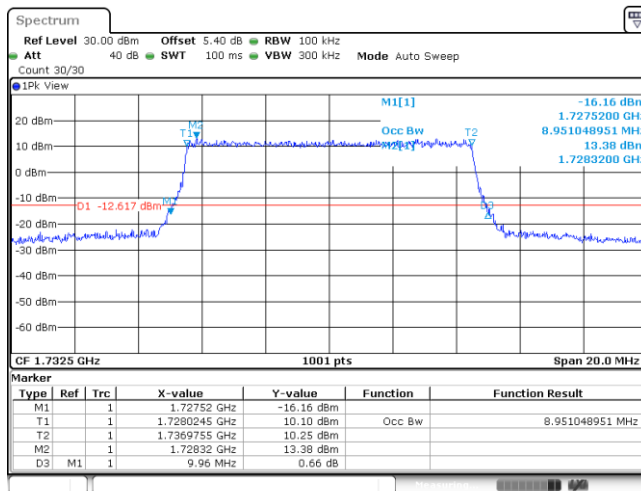
Band4_10MHz_16QAM_20000_50RB#0



Date: 11 AUG. 2019 03:09:20

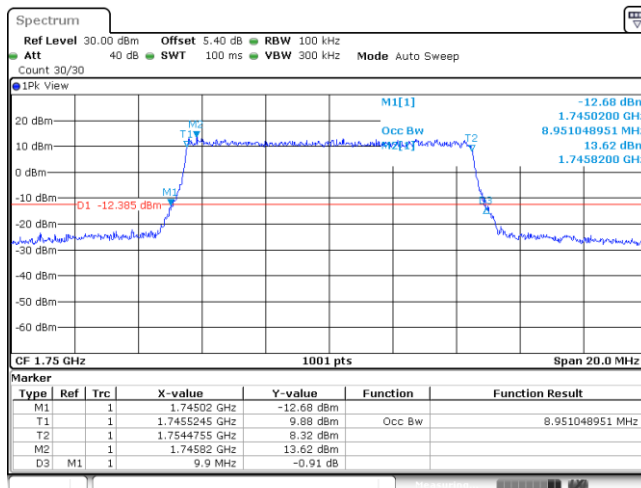
Band4_10MHz_16QAM_20175_50RB#0





Date: 11 AUG 2019 03:09:46

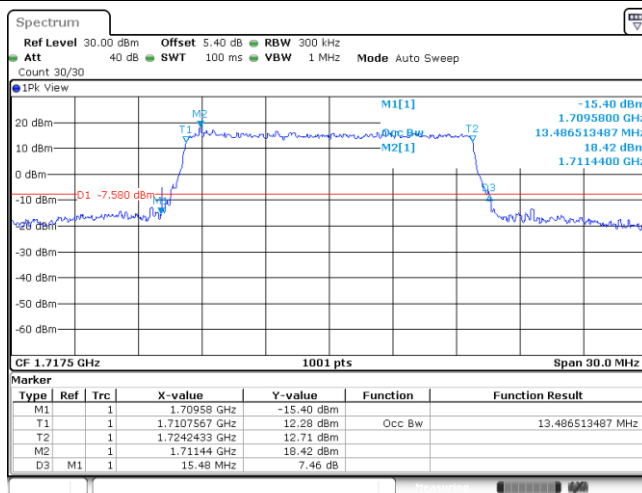
Band4_10MHz_16QAM_20350_50RB#0



Date: 11 AUG 2019 03:10:12

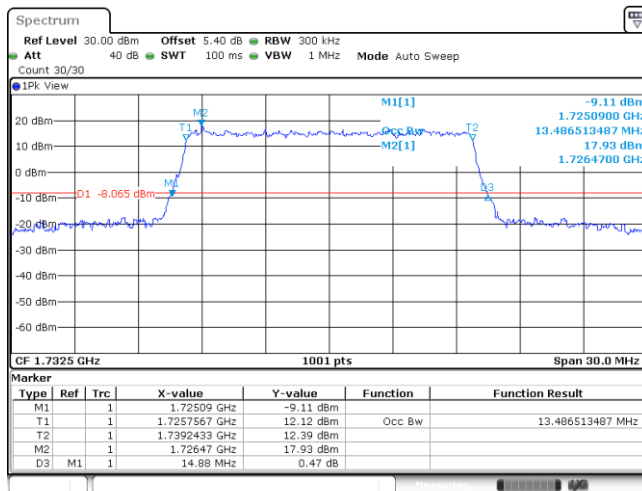
Band4_15MHz_QPSK_20025_75RB#0





Date: 11 AUG 2019 03:10:29

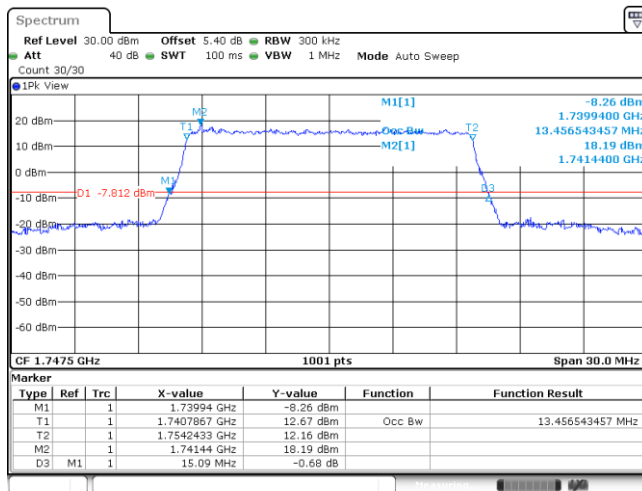
Band4_15MHz_QPSK_20175_75RB#0



Date: 11 AUG 2019 03:10:56

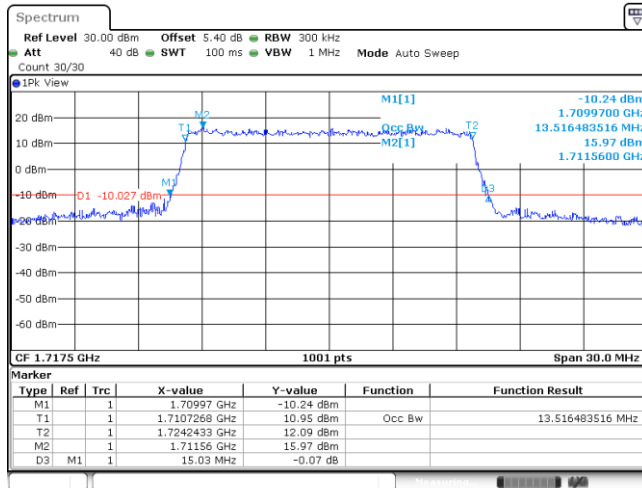
Band4_15MHz_QPSK_20325_75RB#0





Date: 11 AUG 2019 03:11:22

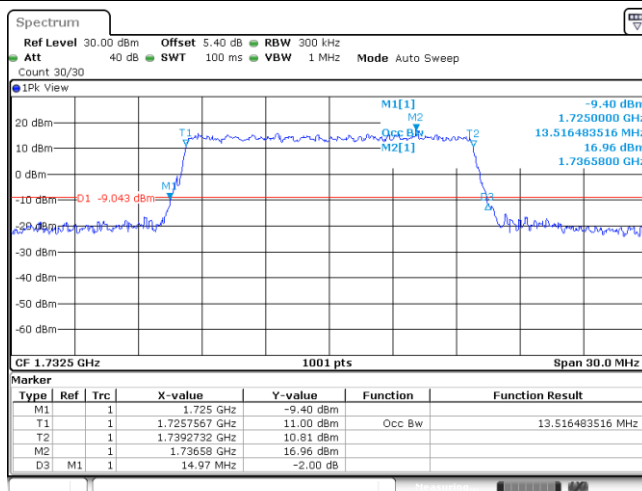
Band4_15MHz_16QAM_20025_75RB#0



Date: 11 AUG 2019 03:10:42

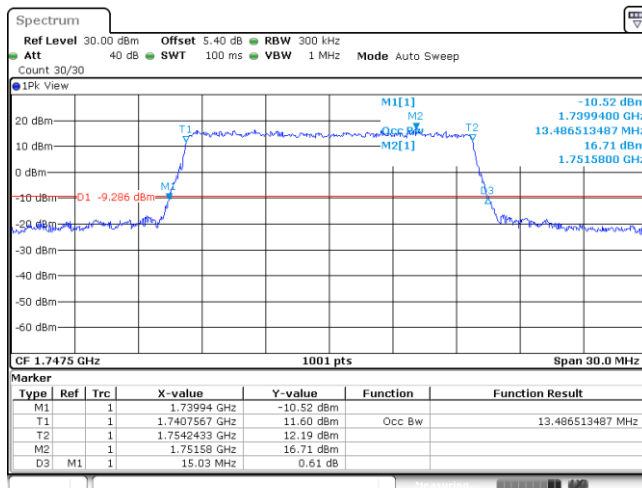
Band4_15MHz_16QAM_20175_75RB#0





Date: 11 AUG 2019 03:11:09

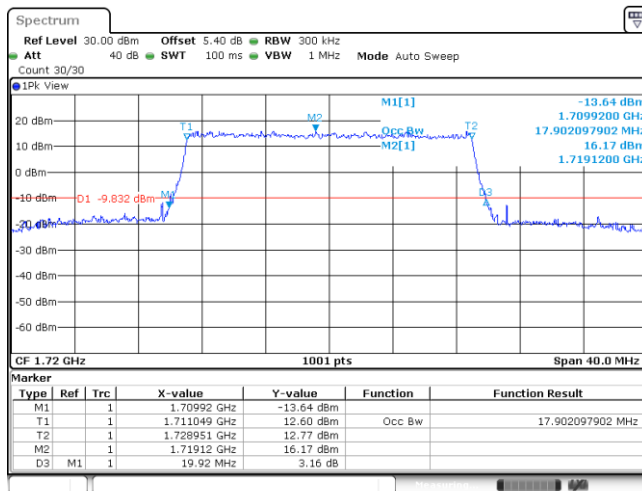
Band4_15MHz_16QAM_20325_75RB#0



Date: 11 AUG 2019 03:11:35

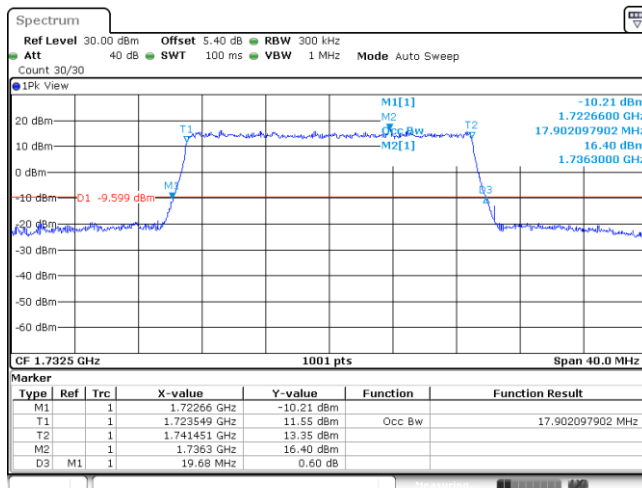
Band4_20MHz_QPSK_20050_100RB#0





Date: 11 AUG 2019 03:11:52

Band4_20MHz_QPSK_20175_100RB#0



Date: 11 AUG 2019 03:12:18

Band4_20MHz_QPSK_20300_100RB#0

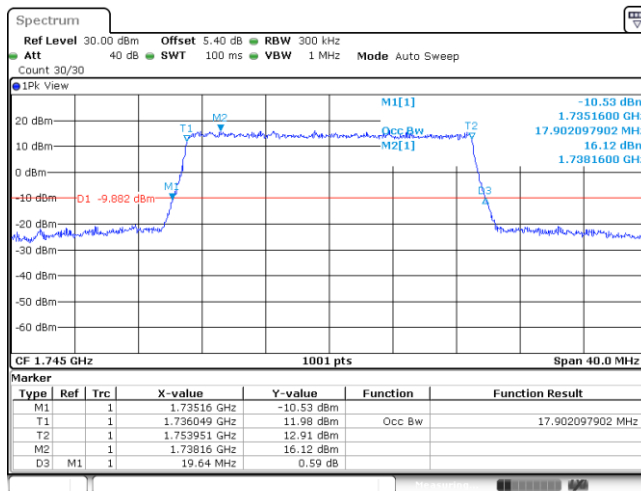


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

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.

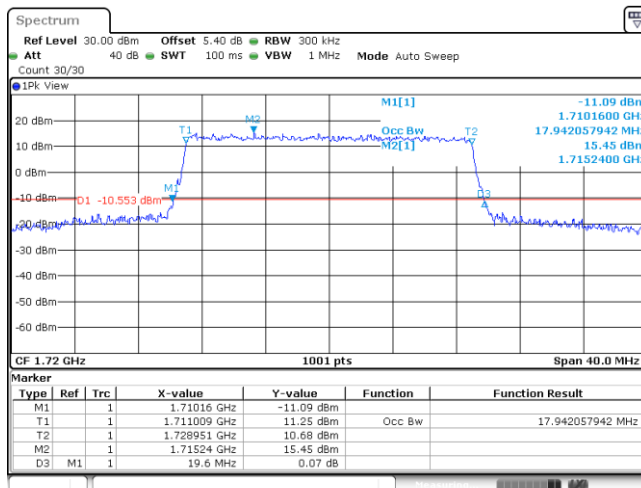
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Date: 11 AUG 2019 03:12:44

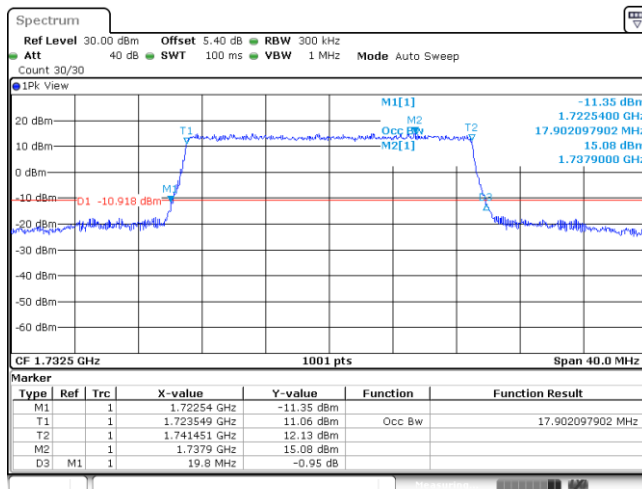
Band4_20MHz_16QAM_20050_100RB#0



Date: 11 AUG 2019 03:12:05

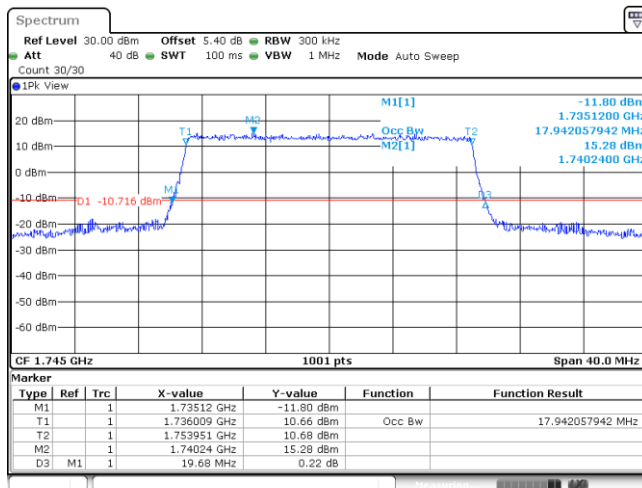
Band4_20MHz_16QAM_20175_100RB#0





Date: 11 AUG 2019 03:12:31

Band4_20MHz_16QAM_20300_100RB#0



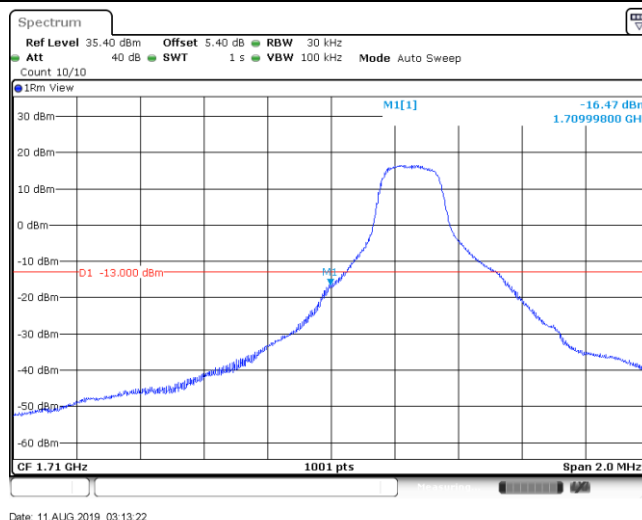
Date: 11 AUG 2019 03:12:58



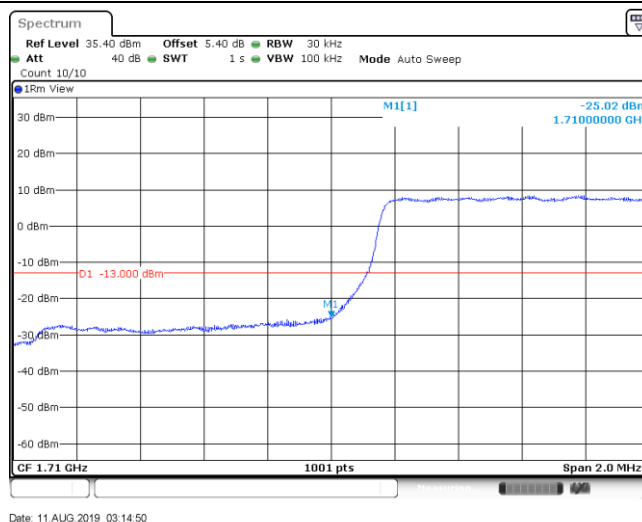
5. Band Edge Compliance

5.1. Test Plots

Band4_1.4MHz_QPSK_19957_1RB#0

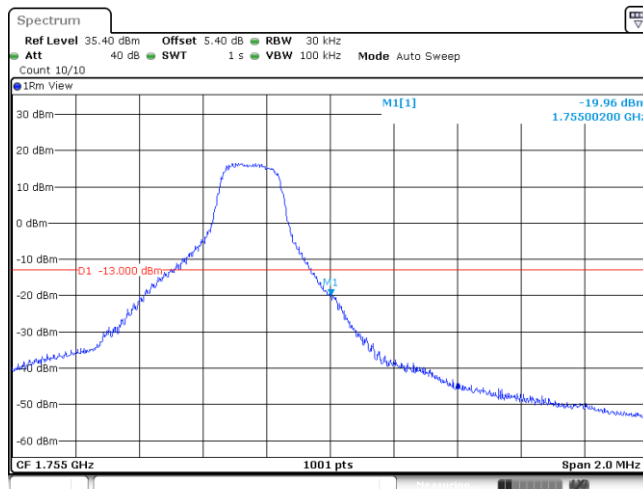


Band4_1.4MHz_QPSK_19957_6RB#0



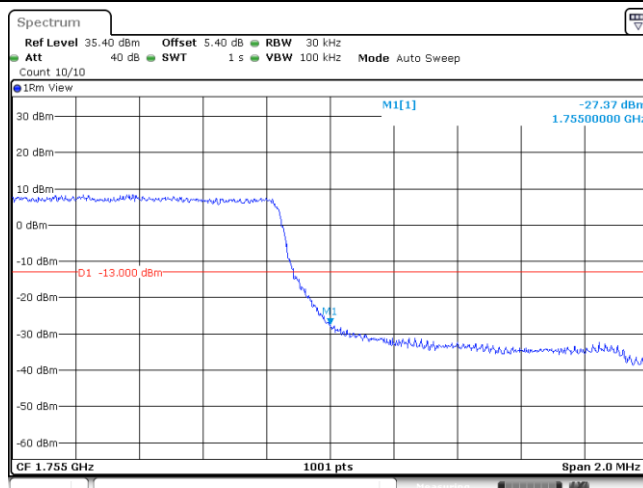
Band4_1.4MHz_QPSK_20393_1RB#5





Date: 11 AUG.2019 03:14:06

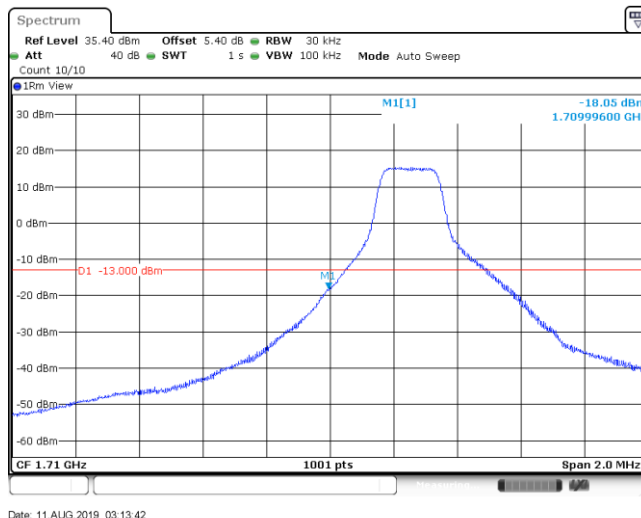
Band4_1.4MHz_QPSK_20393_6RB#0



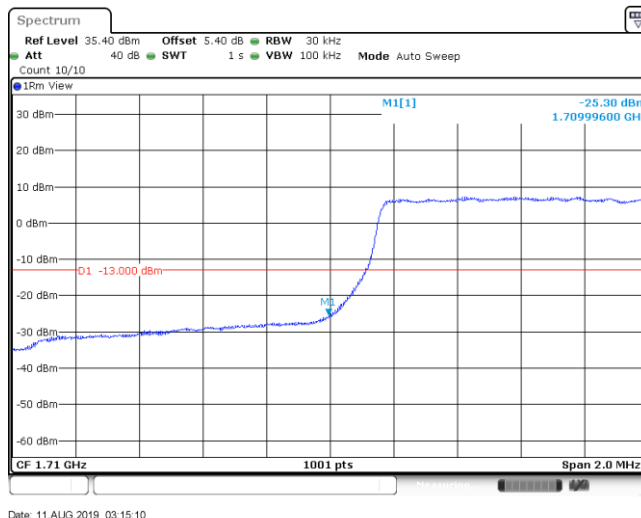
Date: 11 AUG.2019 03:15:30

Band4_1.4MHz_16QAM_19957_1RB#0





Band4_1.4MHz_16QAM_19957_6RB#0



Band4_1.4MHz_16QAM_20393_1RB#5

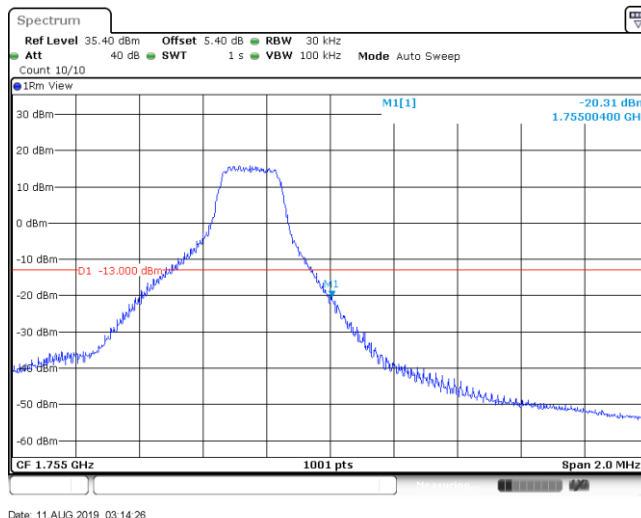


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

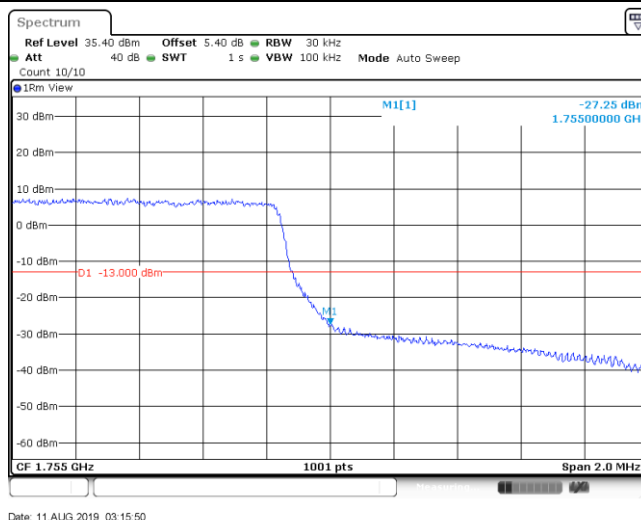
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

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

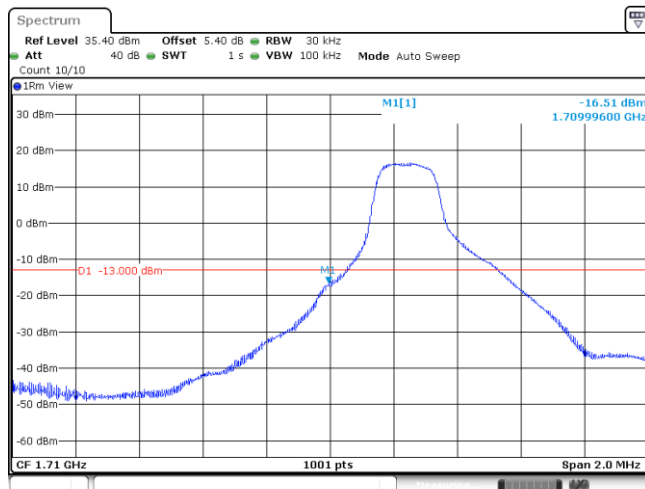


Band4_1.4MHz_16QAM_20393_6RB#0



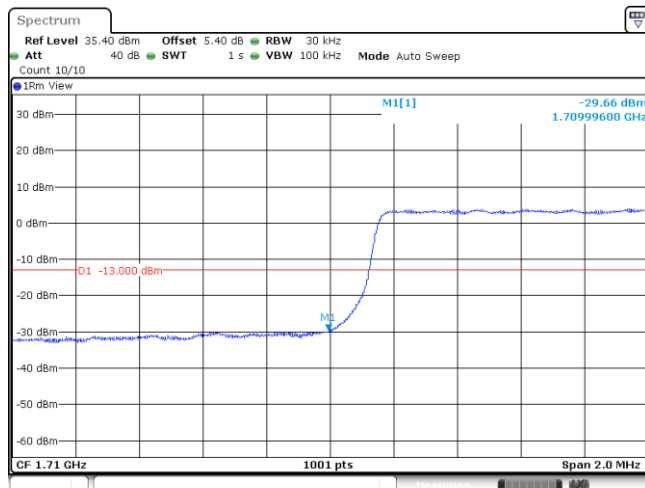
Band4_3MHz_QPSK_19965_1RB#0





Date: 11 AUG. 2019 03:16:15

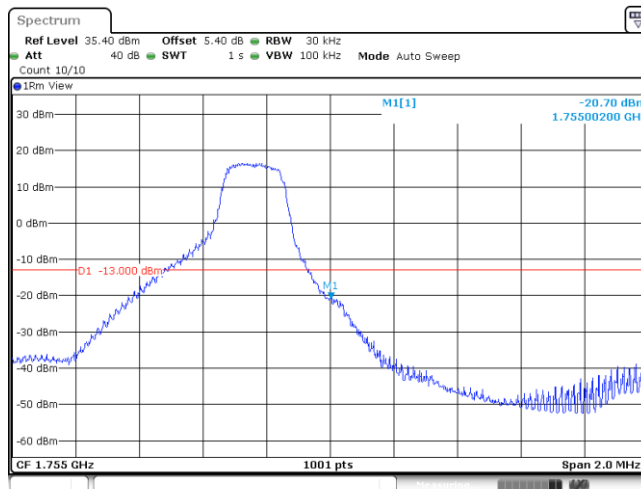
Band4_3MHz_QPSK_19965_15RB#0



Date: 11 AUG. 2019 03:17:43

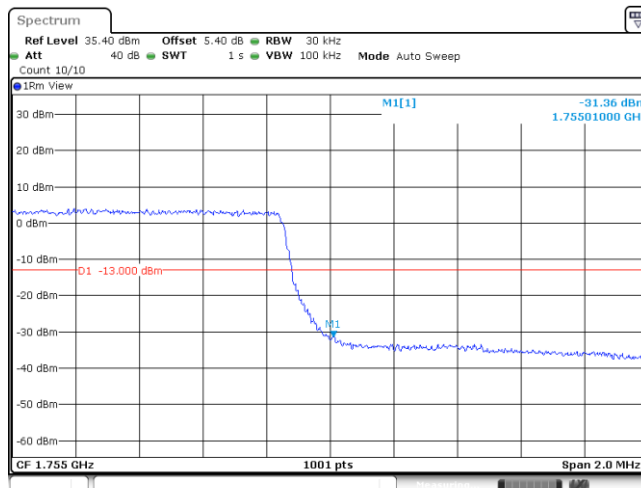
Band4_3MHz_QPSK_20385_1RB#14





Date: 11 AUG. 2019 03:16:59

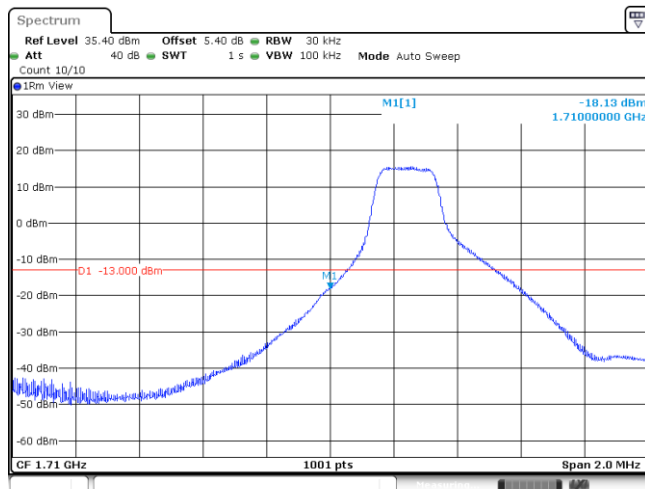
Band4_3MHz_QPSK_20385_15RB#0



Date: 11 AUG. 2019 03:18:23

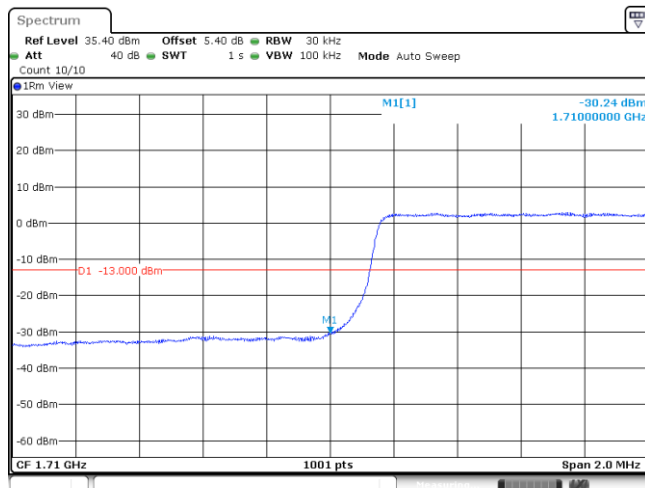
Band4_3MHz_16QAM_19965_1RB#0





Date: 11 AUG. 2019 03:16:35

Band4_3MHz_16QAM_19965_15RB#0



Date: 11 AUG. 2019 03:18:03

Band4_3MHz_16QAM_20385_1RB#14

