1 of 68 Page:

# Appendix B

E-UTRA Band 2



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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issued selfined 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,

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

邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

Page: 2 of 68

#### **CONTENT**

1.	EFF	FECTIVE (ISOTROPIC) RADIATED POWER	3
	1.1.	TEST RESULT	3
2.	PEA	AK-TO-AVERAGE RATIO(CCDF)	10
	2.1.	TEST RESULT	10
	2.2.	TEST PLOTS	10
3.	МС	ODULATION CHARACTERISTICS	14
	3.1.	TEST BAND = LTE BAND 2	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.	261	DB BANDWIDTH AND OCCUPIED BANDWIDTH	16
	4.1.	TEST RESULT	16
	4.2.	TEST PLOTS	17
5.	ВА	ND EDGE COMPLIANCE	35
	5.1.	TEST PLOTS	35
6.	SPU	URIOUS EMISSION AT ANTENNA TERMINAL	59
	6.1.	TEST PLOTS	59
7.	FIE	ELD STRENGTH OF SPURIOUS RADIATION	65
	7.1.	TEST BAND = LTE BAND 2	65
	7.1.1.	TEST MODE =LTE/TM1	65
	7.1.1.	1. TEST CHANNEL = LCH	65
	7.1.1.2	2. Test Channel = MCH	65
	7.1.1.3	3. TEST CHANNEL = HCH	66
8.	FRE	EQUENCY 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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issue 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, \*\*Certificate\*\*.

Page: 3 of 68

#### 1. Effective (Isotropic) Radiated Power

#### 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	23.52	22.82	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.70	23.00	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.56	22.86	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	23.69	22.99	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	23.76	23.06	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	23.70	23.00	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.73	22.03	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.48	22.78	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.62	22.92	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.47	22.77	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	23.62	22.92	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	23.66	22.96	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	23.58	22.88	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.60	21.90	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.22	22.52	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.39	22.69	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.24	22.54	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	23.38	22.68	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	23.43	22.73	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	23.36	22.66	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.39	21.69	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.79	22.09	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.93	22.23	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.80	22.10	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	22.75	22.05	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	22.88	22.18	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	22.79	22.09	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.82	21.12	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.80	22.10	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.87	22.17	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.71	22.01	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	22.75	22.05	33.00	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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issue 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, \*\*Certificate\*\*.



Report No.: ZR/2019/6003801

Page: 4 of 68

Band2	1.4MHz	16QAM	18900	3RB#1	22.82	22.12	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	22.76	22.06	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.72	21.02	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.39	21.69	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.59	21.89	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.40	21.70	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	22.39	21.69	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	22.44	21.74	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	22.42	21.72	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.42	20.72	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.60	22.90	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.63	22.93	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.61	22.91	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#0	22.66	21.96	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#4	22.68	21.98	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#7	22.65	21.95	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.65	21.95	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.52	22.82	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.54	22.84	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.49	22.79	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#0	22.57	21.87	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#4	22.57	21.87	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#7	22.55	21.85	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.56	21.86	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.27	22.57	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.28	22.58	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.25	22.55	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#0	22.32	21.62	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#4	22.34	21.64	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#7	22.29	21.59	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.32	21.62	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	22.90	22.20	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.92	22.22	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.92	22.22	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#0	21.74	21.04	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#4	21.76	21.06	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#7	21.71	21.01	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.67	20.97	33.00	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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issue 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 document does not exonerate parties to a transaction prome exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report 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, \*\*Contact University\*\* in the content of the conte



Report No.: ZR/2019/6003801

Page: 5 of 68

	ı	T	1	T	I	ı	1	T
Band2	3MHz	16QAM	18900	1RB#0	22.85	22.15	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.88	22.18	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.82	22.12	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#0	21.63	20.93	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#4	21.67	20.97	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#7	21.63	20.93	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.56	20.86	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.48	21.78	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.50	21.80	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.42	21.72	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#0	21.36	20.66	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#4	21.37	20.67	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#7	21.34	20.64	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.29	20.59	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.47	22.77	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.81	23.11	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.48	22.78	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#0	22.67	21.97	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#6	22.72	22.02	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#13	22.67	21.97	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.67	21.97	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.41	22.71	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.66	22.96	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.37	22.67	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#0	22.57	21.87	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#6	22.63	21.93	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#13	22.54	21.84	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.56	21.86	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.17	22.47	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.43	22.73	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	23.12	22.42	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#0	22.34	21.64	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#6	22.38	21.68	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#13	22.29	21.59	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.34	21.64	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	22.69	21.99	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	23.03	22.33	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.77	22.07	33.00	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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issue 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 document does not exonerate parties to a transaction prome exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report 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, \*\*Contact University\*\* in the content of the conte



Report No.: ZR/2019/6003801

Page: 6 of 68

Band2	5MHz	16QAM	18625	12RB#0	21.73	21.03	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#6	21.76	21.03	33.00	PASS
Band2	5MHz	16QAM		12RB#13	21.70	21.00	33.00	PASS
			18625					
Band2	5MHz	16QAM	18625	25RB#0	21.72	21.02	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.77	22.07	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	23.05	22.35	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.61	21.91	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#0	21.63	20.93	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#6	21.66	20.96	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#13	21.55	20.85	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.57	20.87	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.33	21.63	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.67	21.97	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.30	21.60	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#0	21.35	20.65	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#6	21.39	20.69	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#13	21.34	20.64	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.34	20.64	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.60	22.90	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.74	23.04	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.57	22.87	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#0	22.69	21.99	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#12	22.69	21.99	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#25	22.70	22.00	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.71	22.01	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.50	22.80	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.64	22.94	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.50	22.80	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#0	22.63	21.93	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#12	22.60	21.90	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#25	22.55	21.85	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.58	21.88	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.32	22.62	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.40	22.70	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.26	22.56	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#0	22.36	21.66	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#12	22.37	21.67	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#12 25RB#25	22.32	21.62	33.00	PASS
Danuz	I UIVIF1Z	UF3N	19100	ZUND#20	22.32	21.02	JJ.00	FASS



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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. 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, \*\*Company\*\* \*\*Company\*\*\* \*\*Co



Report No.: ZR/2019/6003801

Page: 7 of 68

Pond?	10MU=	ODSK	10150	50DB#0	22.27	24.67	22.00	DACC
Band2	10MHz	QPSK	19150	50RB#0	22.37	21.67	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.89	22.19	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	23.09	22.39	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.87	22.17	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#0	21.71	21.01	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#12	21.71	21.01	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#25	21.73	21.03	33.00	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.73	21.03	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.77	22.07	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.86	22.16	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.74	22.04	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#0	21.63	20.93	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#12	21.61	20.91	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#25	21.56	20.86	33.00	PASS
Band2	10MHz	16QAM	18900	50RB#0	21.59	20.89	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.56	21.86	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.64	21.94	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.39	21.69	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#0	21.35	20.65	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#12	21.38	20.68	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#25	21.32	20.62	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.37	20.67	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.57	22.87	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.67	22.97	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.48	22.78	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#0	22.71	22.01	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#18	22.74	22.04	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#39	22.68	21.98	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.69	21.99	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.50	22.80	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.57	22.87	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.45	22.75	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#0	22.65	21.95	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#18	22.63	21.93	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#39	22.56	21.86	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.58	21.88	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.36	22.66	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.38	22.68	33.00	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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issue 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 document does not exonerate parties to a transaction prome exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report 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, \*\*Contact University\*\* in the content of the conte



Report No.: ZR/2019/6003801

Page: 8 of 68

		0.004						2122
Band2	15MHz	QPSK	19125	1RB#74	23.23	22.53	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#0	22.46	21.76	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#18	22.42	21.72	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#39	22.38	21.68	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.41	21.71	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.96	22.26	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.99	22.29	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.78	22.08	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#0	21.72	21.02	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#18	21.73	21.03	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#39	21.69	20.99	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.73	21.03	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.81	22.11	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.79	22.09	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.70	22.00	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#0	21.63	20.93	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#18	21.62	20.92	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#39	21.56	20.86	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.61	20.91	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.75	22.05	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.66	21.96	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.48	21.78	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#0	21.47	20.77	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#18	21.40	20.70	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#39	21.35	20.65	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.43	20.73	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.53	22.83	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.69	22.99	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.43	22.73	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#0	22.68	21.98	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#25	22.67	21.97	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#50	22.72	22.02	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.70	22.00	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.44	22.74	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.66	22.96	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.36	22.66	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#0	22.65	21.95	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#25	22.63	21.93	33.00	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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issue 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 document does not exonerate parties to a transaction prome exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report 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, \*\*Contact University\*\* in the content of the conte



Report No.: ZR/2019/6003801

Page: 9 of 68

Band2         20MHz         QPSK         18900         50RB#50         22.47         21.77         33.00         PASS           Band2         20MHz         QPSK         18900         100RB#0         22.58         21.88         33.00         PASS           Band2         20MHz         QPSK         19100         1RB#0         23.34         22.64         33.00         PASS           Band2         20MHz         QPSK         19100         1RB#49         23.50         22.80         33.00         PASS           Band2         20MHz         QPSK         19100         50RB#59         23.14         22.44         33.00         PASS           Band2         20MHz         QPSK         19100         50RB#50         22.48         21.76         33.00         PASS           Band2         20MHz         QPSK         19100         50RB#50         22.42         21.72         33.00         PASS           Band2         20MHz         QPSK         19100         100RB#0         22.47         21.77         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#0         22.76         22.06         33.00         PASS									
Band2         20MHz         QPSK         19100         1RB#0         23.34         22.64         33.00         PASS           Band2         20MHz         QPSK         19100         1RB#49         23.50         22.80         33.00         PASS           Band2         20MHz         QPSK         19100         50RB#9         23.14         22.44         33.00         PASS           Band2         20MHz         QPSK         19100         50RB#5         22.48         21.78         33.00         PASS           Band2         20MHz         QPSK         19100         50RB#5         22.46         21.76         33.00         PASS           Band2         20MHz         QPSK         19100         100RB#0         22.47         21.77         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#0         22.76         22.06         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#99         22.80         22.10         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#5         21.69         20.99         33.00         PASS	Band2	20MHz	QPSK	18900	50RB#50	22.47	21.77	33.00	PASS
Band2         20MHz         QPSK         19100         1RB#49         23.50         22.80         33.00         PASS           Band2         20MHz         QPSK         19100         1RB#99         23.14         22.44         33.00         PASS           Band2         20MHz         QPSK         19100         50RB#0         22.48         21.78         33.00         PASS           Band2         20MHz         QPSK         19100         50RB#50         22.42         21.76         33.00         PASS           Band2         20MHz         QPSK         19100         100RB#0         22.47         21.77         33.00         PASS           Band2         20MHz         QPSK         19100         100RB#0         22.47         21.77         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#0         22.76         22.06         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#99         22.80         22.10         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#0         21.69         20.99         33.00         PASS	Band2	20MHz	QPSK	18900	100RB#0	22.58	21.88	33.00	PASS
Band2         20MHz         QPSK         19100         1RB#99         23.14         22.44         33.00         PASS           Band2         20MHz         QPSK         19100         50RB#0         22.48         21.78         33.00         PASS           Band2         20MHz         QPSK         19100         50RB#55         22.46         21.76         33.00         PASS           Band2         20MHz         QPSK         19100         100RB#0         22.42         21.77         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#0         22.76         22.06         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#0         22.76         22.06         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#99         22.80         22.10         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#59         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#50         21.72         21.02         33.00         PASS	Band2	20MHz	QPSK	19100	1RB#0	23.34	22.64	33.00	PASS
Band2         20MHz         QPSK         19100         50RB#0         22.48         21.78         33.00         PASS           Band2         20MHz         QPSK         19100         50RB#25         22.46         21.76         33.00         PASS           Band2         20MHz         QPSK         19100         100RB#50         22.42         21.72         33.00         PASS           Band2         20MHz         QPSK         19100         100RB#0         22.47         21.77         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#0         22.76         22.06         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#49         23.09         22.39         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#09         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#25         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#25         21.69         20.99         33.00         PASS	Band2	20MHz	QPSK	19100	1RB#49	23.50	22.80	33.00	PASS
Band2         20MHz         QPSK         19100         50RB#25         22.46         21.76         33.00         PASS           Band2         20MHz         QPSK         19100         50RB#50         22.42         21.72         33.00         PASS           Band2         20MHz         QPSK         19100         100RB#0         22.47         21.77         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#0         22.76         22.06         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#49         23.09         22.39         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#0         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#25         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#50         21.72         21.02         33.00         PASS           Band2         20MHz         16QAM         18700         100RB#0         21.73         21.03         33.00         PASS	Band2	20MHz	QPSK	19100	1RB#99	23.14	22.44	33.00	PASS
Band2         20MHz         QPSK         19100         50RB#50         22.42         21.72         33.00         PASS           Band2         20MHz         QPSK         19100         100RB#0         22.47         21.77         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#49         23.09         22.39         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#99         22.80         22.10         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#0         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#55         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#50         21.72         21.02         33.00         PASS           Band2         20MHz         16QAM         18700         100RB#0         21.73         21.03         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#0         22.75         22.05         33.00         PASS <tr< td=""><td>Band2</td><td>20MHz</td><td>QPSK</td><td>19100</td><td>50RB#0</td><td>22.48</td><td>21.78</td><td>33.00</td><td>PASS</td></tr<>	Band2	20MHz	QPSK	19100	50RB#0	22.48	21.78	33.00	PASS
Band2         20MHz         QPSK         19100         100RB#0         22.47         21.77         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#0         22.76         22.06         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#99         22.80         22.10         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#0         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#25         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#50         21.72         21.02         33.00         PASS           Band2         20MHz         16QAM         18700         100RB#0         21.73         21.03         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#0         22.75         22.05         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#49         22.97         22.27         33.00         PASS	Band2	20MHz	QPSK	19100	50RB#25	22.46	21.76	33.00	PASS
Band2         20MHz         16QAM         18700         1RB#0         22.76         22.06         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#49         23.09         22.39         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#9         22.80         22.10         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#0         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#25         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#50         21.72         21.02         33.00         PASS           Band2         20MHz         16QAM         18700         100RB#0         21.73         21.03         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#0         22.75         22.05         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#99         22.63         21.93         33.00         PASS	Band2	20MHz	QPSK	19100	50RB#50	22.42	21.72	33.00	PASS
Band2         20MHz         16QAM         18700         1RB#49         23.09         22.39         33.00         PASS           Band2         20MHz         16QAM         18700         1RB#99         22.80         22.10         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#0         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#55         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#50         21.72         21.02         33.00         PASS           Band2         20MHz         16QAM         18700         100RB#0         21.73         21.03         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#0         22.75         22.05         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#49         22.97         22.27         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#0         21.66         20.96         33.00         PASS	Band2	20MHz	QPSK	19100	100RB#0	22.47	21.77	33.00	PASS
Band2         20MHz         16QAM         18700         1RB#99         22.80         22.10         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#0         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#25         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#50         21.72         21.02         33.00         PASS           Band2         20MHz         16QAM         18700         100RB#0         21.73         21.03         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#0         22.75         22.05         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#49         22.97         22.27         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#99         22.63         21.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#0         21.66         20.96         33.00         PASS	Band2	20MHz	16QAM	18700	1RB#0	22.76	22.06	33.00	PASS
Band2         20MHz         16QAM         18700         50RB#0         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#25         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#50         21.72         21.02         33.00         PASS           Band2         20MHz         16QAM         18700         100RB#0         21.73         21.03         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#0         22.75         22.05         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#49         22.97         22.27         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#99         22.63         21.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#0         21.66         20.96         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#50         21.50         20.80         33.00         PASS <tr< td=""><td>Band2</td><td>20MHz</td><td>16QAM</td><td>18700</td><td>1RB#49</td><td>23.09</td><td>22.39</td><td>33.00</td><td>PASS</td></tr<>	Band2	20MHz	16QAM	18700	1RB#49	23.09	22.39	33.00	PASS
Band2         20MHz         16QAM         18700         50RB#25         21.69         20.99         33.00         PASS           Band2         20MHz         16QAM         18700         50RB#50         21.72         21.02         33.00         PASS           Band2         20MHz         16QAM         18700         100RB#0         21.73         21.03         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#0         22.75         22.05         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#49         22.97         22.27         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#99         22.63         21.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#0         21.66         20.96         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#25         21.63         20.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#50         21.50         20.80         33.00         PASS <t< td=""><td>Band2</td><td>20MHz</td><td>16QAM</td><td>18700</td><td>1RB#99</td><td>22.80</td><td>22.10</td><td>33.00</td><td>PASS</td></t<>	Band2	20MHz	16QAM	18700	1RB#99	22.80	22.10	33.00	PASS
Band2         20MHz         16QAM         18700         50RB#50         21.72         21.02         33.00         PASS           Band2         20MHz         16QAM         18700         100RB#0         21.73         21.03         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#0         22.75         22.05         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#49         22.97         22.27         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#99         22.63         21.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#0         21.66         20.96         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#25         21.63         20.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#50         21.50         20.80         33.00         PASS           Band2         20MHz         16QAM         18900         10RB#0         21.59         20.89         33.00         PASS <tr< td=""><td>Band2</td><td>20MHz</td><td>16QAM</td><td>18700</td><td>50RB#0</td><td>21.69</td><td>20.99</td><td>33.00</td><td>PASS</td></tr<>	Band2	20MHz	16QAM	18700	50RB#0	21.69	20.99	33.00	PASS
Band2         20MHz         16QAM         18700         100RB#0         21.73         21.03         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#0         22.75         22.05         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#49         22.97         22.27         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#99         22.63         21.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#0         21.66         20.96         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#25         21.63         20.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#50         21.50         20.80         33.00         PASS           Band2         20MHz         16QAM         18900         100RB#0         21.59         20.89         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#0         22.57         21.87         33.00         PASS	Band2	20MHz	16QAM	18700	50RB#25	21.69	20.99	33.00	PASS
Band2         20MHz         16QAM         18900         1RB#0         22.75         22.05         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#49         22.97         22.27         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#99         22.63         21.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#0         21.66         20.96         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#25         21.63         20.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#50         21.50         20.80         33.00         PASS           Band2         20MHz         16QAM         18900         100RB#0         21.59         20.89         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#0         22.57         21.87         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#99         22.35         21.65         33.00         PASS	Band2	20MHz	16QAM	18700	50RB#50	21.72	21.02	33.00	PASS
Band2         20MHz         16QAM         18900         1RB#49         22.97         22.27         33.00         PASS           Band2         20MHz         16QAM         18900         1RB#99         22.63         21.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#0         21.66         20.96         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#25         21.63         20.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#50         21.50         20.80         33.00         PASS           Band2         20MHz         16QAM         18900         100RB#0         21.59         20.89         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#0         22.57         21.87         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#49         22.87         22.17         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#0         21.49         20.79         33.00         PASS	Band2	20MHz	16QAM	18700	100RB#0	21.73	21.03	33.00	PASS
Band2         20MHz         16QAM         18900         1RB#99         22.63         21.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#0         21.66         20.96         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#25         21.63         20.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#50         21.50         20.80         33.00         PASS           Band2         20MHz         16QAM         18900         100RB#0         21.59         20.89         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#0         22.57         21.87         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#49         22.87         22.17         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#99         22.35         21.65         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#0         21.49         20.79         33.00         PASS	Band2	20MHz	16QAM	18900	1RB#0	22.75	22.05	33.00	PASS
Band2         20MHz         16QAM         18900         50RB#0         21.66         20.96         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#25         21.63         20.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#50         21.50         20.80         33.00         PASS           Band2         20MHz         16QAM         18900         100RB#0         21.59         20.89         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#0         22.57         21.87         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#49         22.87         22.17         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#99         22.35         21.65         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#0         21.49         20.79         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#25         21.46         20.76         33.00         PASS <tr< td=""><td>Band2</td><td>20MHz</td><td>16QAM</td><td>18900</td><td>1RB#49</td><td>22.97</td><td>22.27</td><td>33.00</td><td>PASS</td></tr<>	Band2	20MHz	16QAM	18900	1RB#49	22.97	22.27	33.00	PASS
Band2         20MHz         16QAM         18900         50RB#25         21.63         20.93         33.00         PASS           Band2         20MHz         16QAM         18900         50RB#50         21.50         20.80         33.00         PASS           Band2         20MHz         16QAM         18900         100RB#0         21.59         20.89         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#0         22.57         21.87         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#49         22.87         22.17         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#99         22.35         21.65         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#0         21.49         20.79         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#25         21.46         20.76         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#50         21.40         20.70         33.00         PASS <td>Band2</td> <td>20MHz</td> <td>16QAM</td> <td>18900</td> <td>1RB#99</td> <td>22.63</td> <td>21.93</td> <td>33.00</td> <td>PASS</td>	Band2	20MHz	16QAM	18900	1RB#99	22.63	21.93	33.00	PASS
Band2         20MHz         16QAM         18900         50RB#50         21.50         20.80         33.00         PASS           Band2         20MHz         16QAM         18900         100RB#0         21.59         20.89         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#0         22.57         21.87         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#49         22.87         22.17         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#99         22.35         21.65         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#0         21.49         20.79         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#25         21.46         20.76         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#50         21.40         20.70         33.00         PASS	Band2	20MHz	16QAM	18900	50RB#0	21.66	20.96	33.00	PASS
Band2         20MHz         16QAM         18900         100RB#0         21.59         20.89         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#0         22.57         21.87         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#49         22.87         22.17         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#99         22.35         21.65         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#0         21.49         20.79         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#25         21.46         20.76         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#50         21.40         20.70         33.00         PASS	Band2	20MHz	16QAM	18900	50RB#25	21.63	20.93	33.00	PASS
Band2         20MHz         16QAM         19100         1RB#0         22.57         21.87         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#49         22.87         22.17         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#99         22.35         21.65         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#0         21.49         20.79         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#25         21.46         20.76         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#50         21.40         20.70         33.00         PASS	Band2	20MHz	16QAM	18900	50RB#50	21.50	20.80	33.00	PASS
Band2         20MHz         16QAM         19100         1RB#49         22.87         22.17         33.00         PASS           Band2         20MHz         16QAM         19100         1RB#99         22.35         21.65         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#0         21.49         20.79         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#25         21.46         20.76         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#50         21.40         20.70         33.00         PASS	Band2	20MHz	16QAM	18900	100RB#0	21.59	20.89	33.00	PASS
Band2         20MHz         16QAM         19100         1RB#99         22.35         21.65         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#0         21.49         20.79         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#25         21.46         20.76         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#50         21.40         20.70         33.00         PASS	Band2	20MHz	16QAM	19100	1RB#0	22.57	21.87	33.00	PASS
Band2         20MHz         16QAM         19100         50RB#0         21.49         20.79         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#25         21.46         20.76         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#50         21.40         20.70         33.00         PASS	Band2	20MHz	16QAM	19100	1RB#49	22.87	22.17	33.00	PASS
Band2         20MHz         16QAM         19100         50RB#25         21.46         20.76         33.00         PASS           Band2         20MHz         16QAM         19100         50RB#50         21.40         20.70         33.00         PASS	Band2	20MHz	16QAM	19100	1RB#99	22.35	21.65	33.00	PASS
Band2         20MHz         16QAM         19100         50RB#50         21.40         20.70         33.00         PASS	Band2	20MHz	16QAM	19100	50RB#0	21.49	20.79	33.00	PASS
	Band2	20MHz	16QAM	19100	50RB#25	21.46	20.76	33.00	PASS
	Band2	20MHz	16QAM	19100	50RB#50	21.40	20.70	33.00	PASS
Band2         20MHz         16QAM         19100         100RB#0         21.47         20.77         33.00         PASS	Band2	20MHz	16QAM	19100	100RB#0	21.47	20.77	33.00	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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. 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, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at teleph

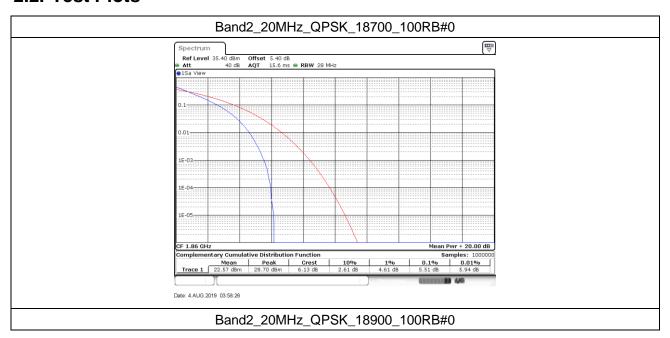
Page: 10 of 68

#### 2. Peak-to-Average Ratio(CCDF)

#### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	5.51	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.51	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.42	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.38	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.32	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.29	13	PASS

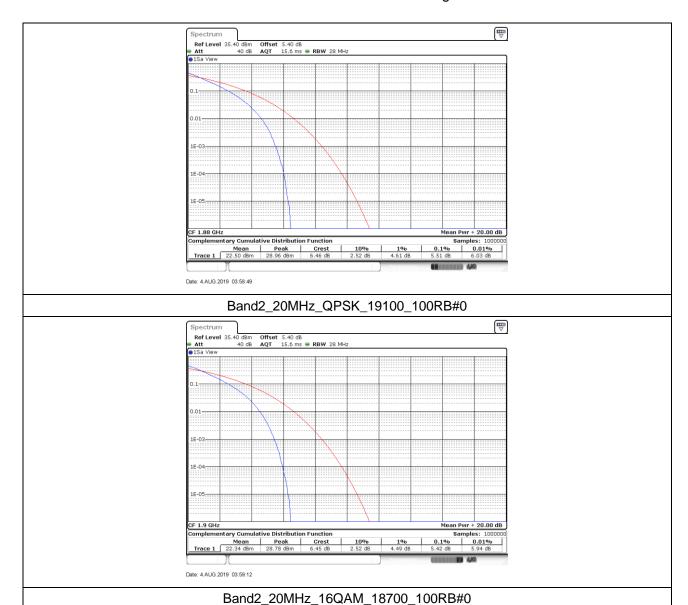
#### 2.2. Test Plots





Report No.: ZR/2019/6003801

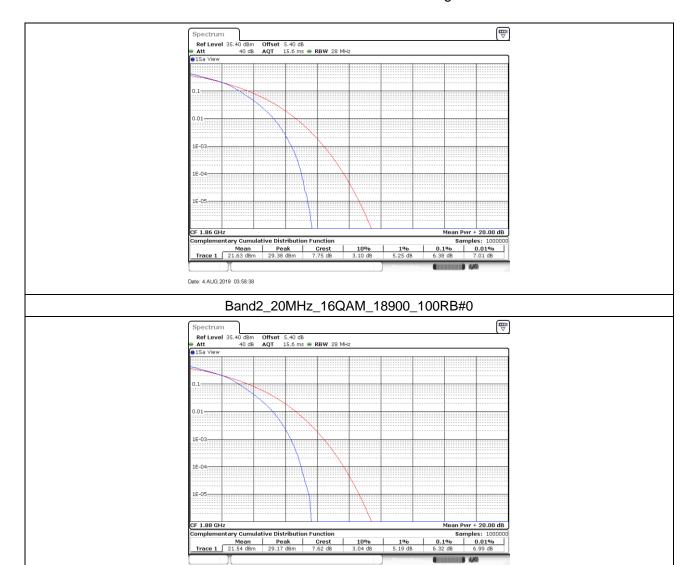
Page: 11 of 68





Report No.: ZR/2019/6003801

Page: 12 of 68



Band2\_20MHz\_16QAM\_19100\_100RB#0



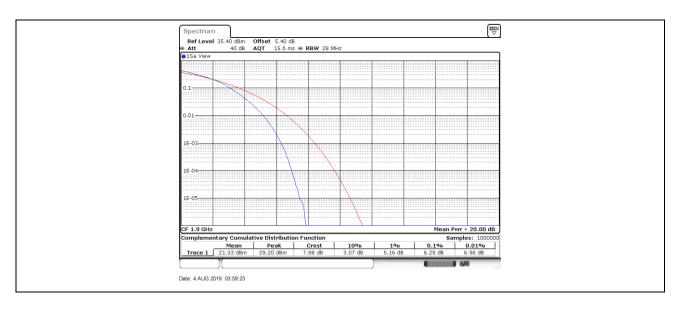
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic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

Date: 4.AUG.2019 03:59:00

Report No.: ZR/2019/6003801

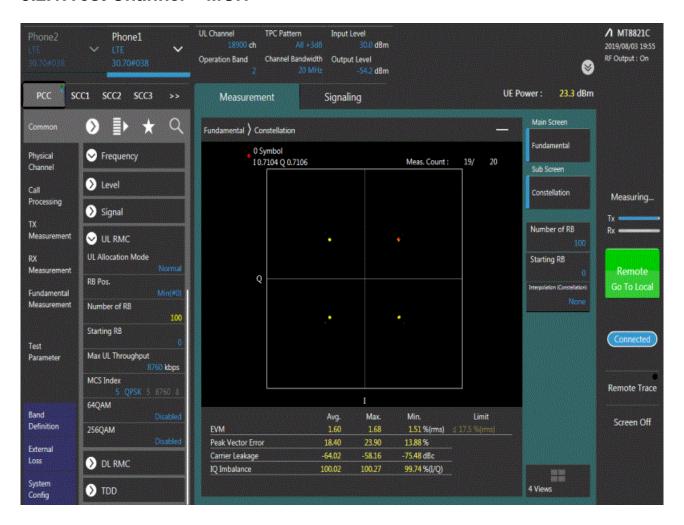
Page: 13 of 68



Page: 14 of 68

#### 3. Modulation Characteristics

- 3.1. Test Band = LTE Band 2
- 3.2. Test Mode = LTE /TM1 20MHz
- 3.2.1.Test Channel = MCH

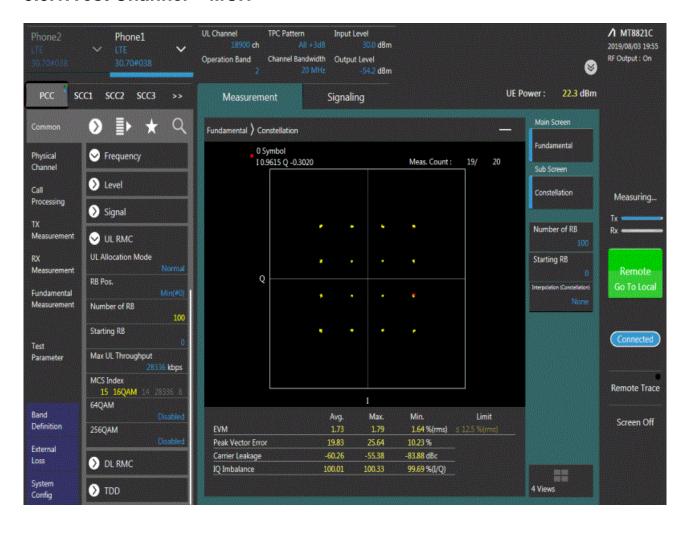




Page: 15 of 68

#### 3.3. Test Mode = LTE /TM2 20MHz

#### 3.3.1.Test Channel = MCH





Page: 16 of 68

#### 4. 26dB Bandwidth and Occupied Bandwidth

#### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.088	1.278	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.088	1.284	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.091	1.284	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.091	1.287	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.091	1.275	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.088	1.284	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.691	2.916	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.691	2.934	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.691	2.922	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.673	2.904	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.673	2.904	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.673	2.904	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.466	4.860	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.476	4.840	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.476	4.820	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.476	4.890	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.486	4.860	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.486	4.860	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.931	9.660	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.931	9.600	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.931	9.620	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.931	9.620	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.931	9.560	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.931	9.620	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.487	14.670	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.457	14.610	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.427	14.550	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.457	14.580	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.457	14.640	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.427	14.640	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.902	19.280	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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issue 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, \*\*Certificate\*\*.

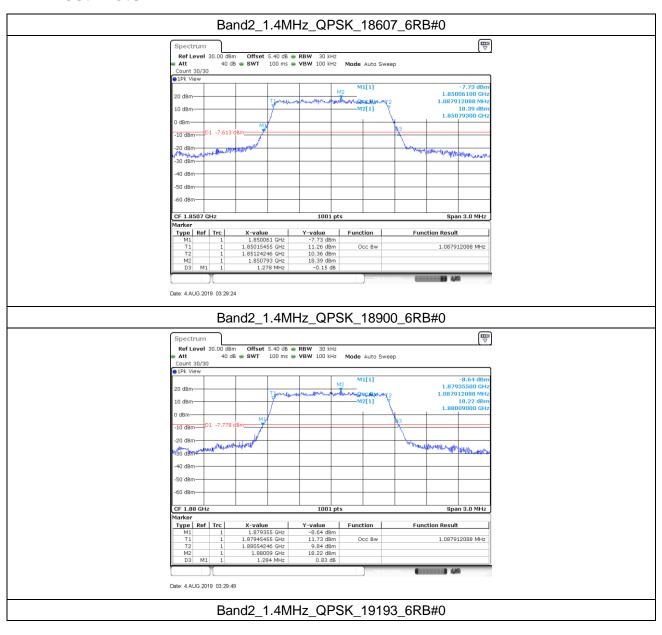


Report No.: ZR/2019/6003801

Page: 17 of 68

Band2	20MHz	QPSK	18900	100RB#0	17.862	19.240	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.862	19.280	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.902	19.320	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.862	19.320	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.902	19.320	PASS

#### 4.2. Test Plots



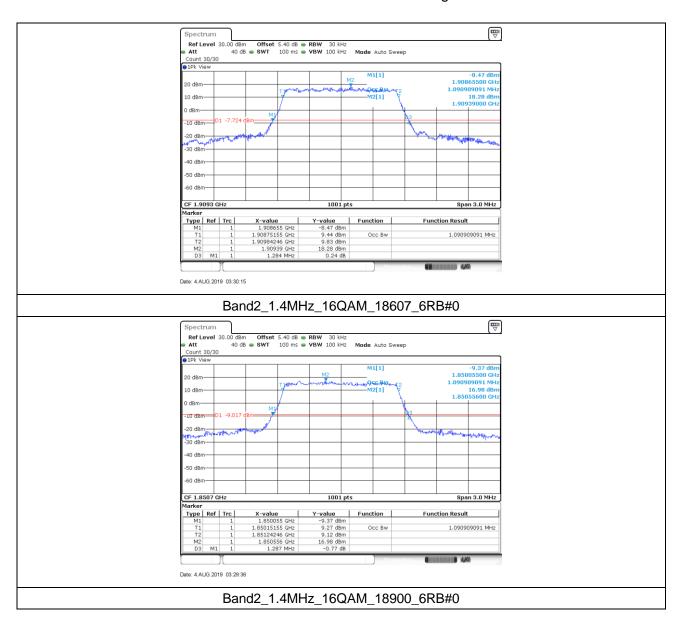


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issue 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, \*\*Certificate\*\*.

Report No.: ZR/2019/6003801

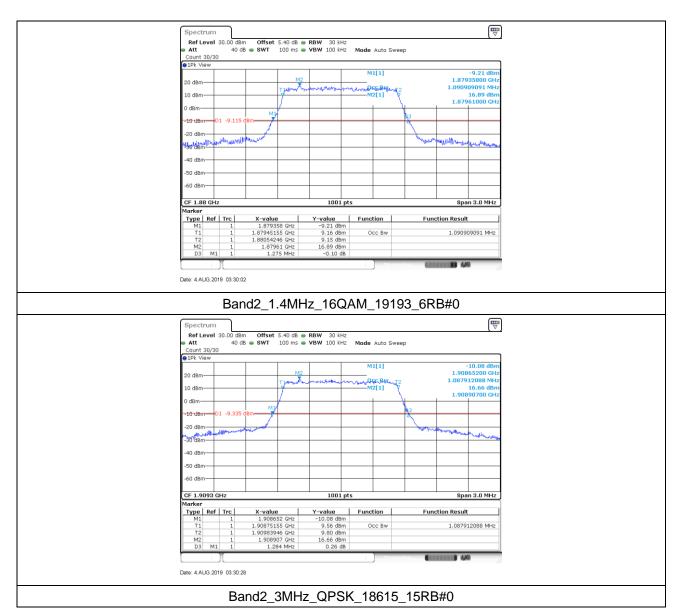
Page: 18 of 68





Report No.: ZR/2019/6003801

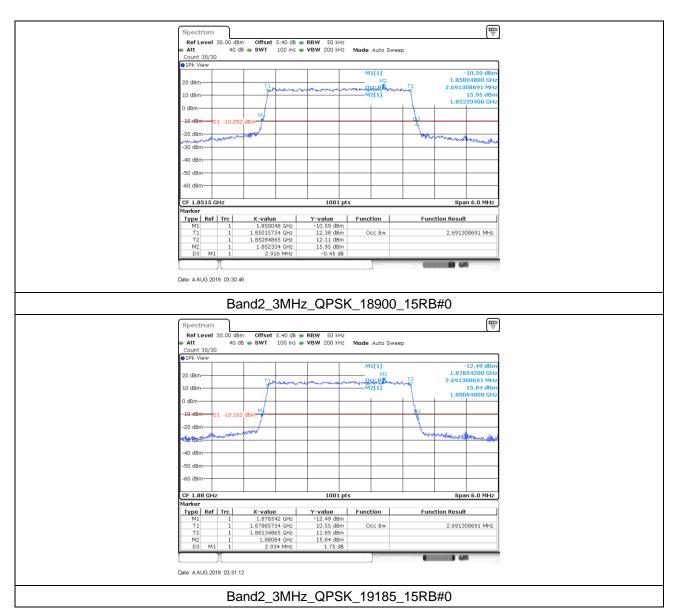
Page: 19 of 68





Report No.: ZR/2019/6003801

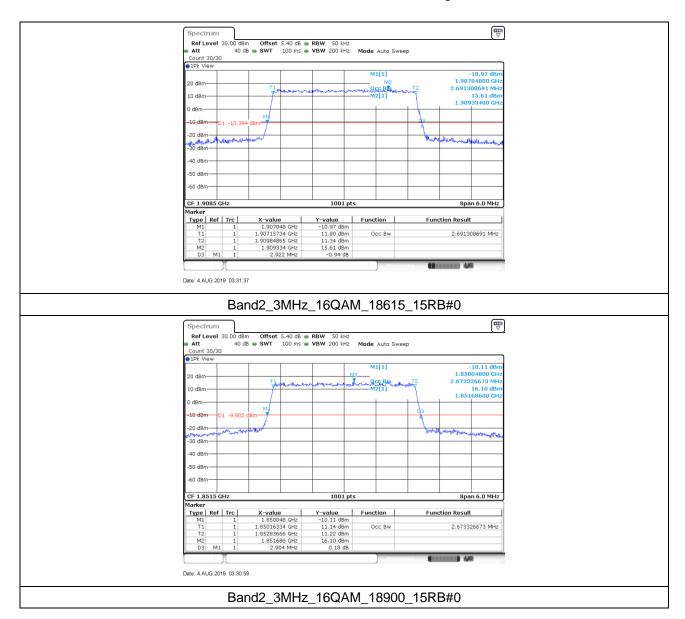
Page: 20 of 68





Report No.: ZR/2019/6003801

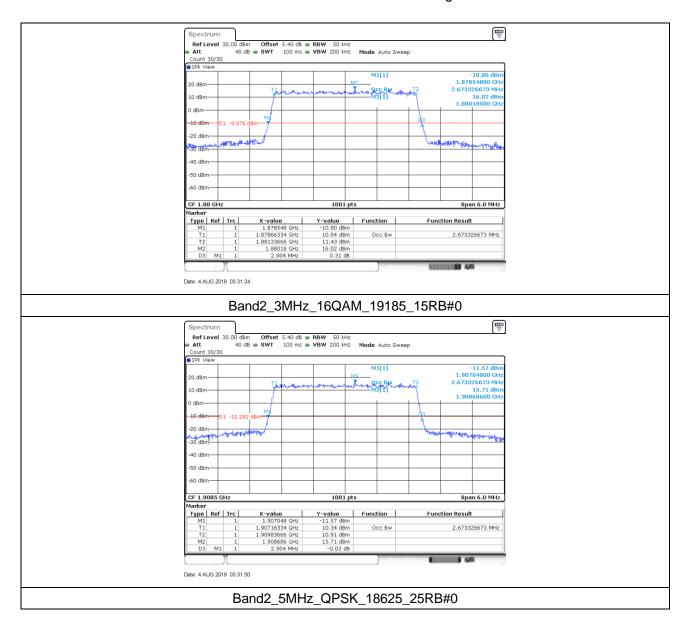
Page: 21 of 68





Report No.: ZR/2019/6003801

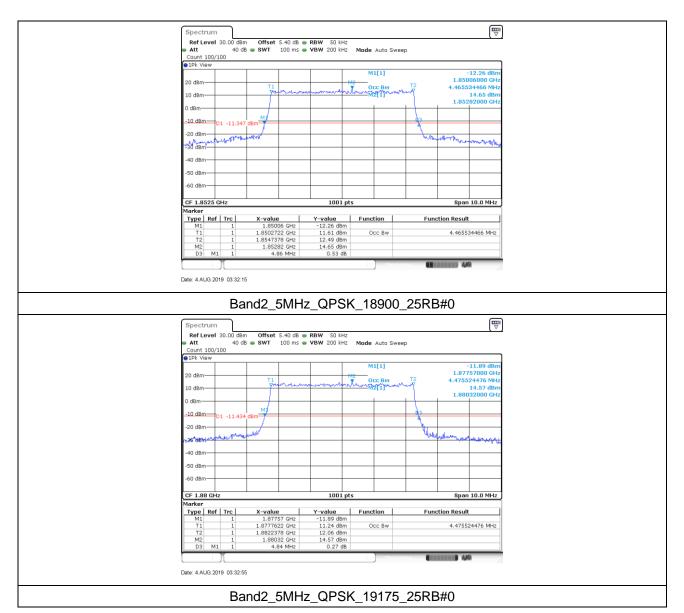
Page: 22 of 68





Report No.: ZR/2019/6003801

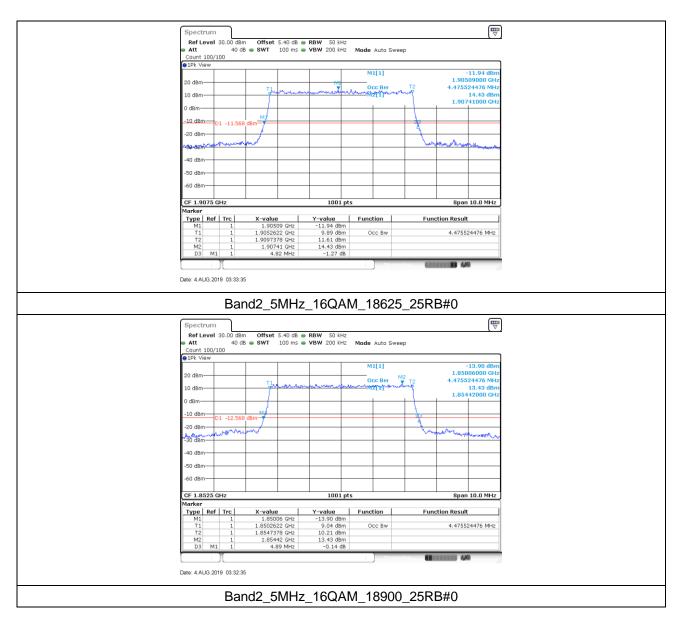
Page: 23 of 68





Report No.: ZR/2019/6003801

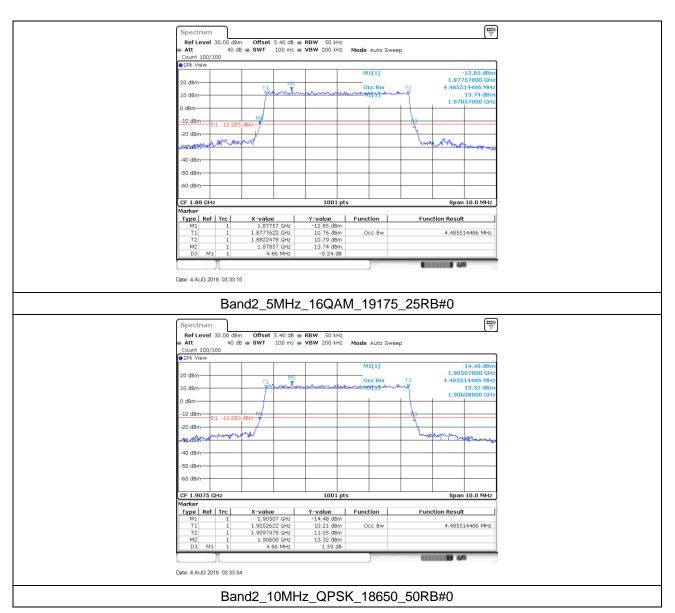
Page: 24 of 68





Report No.: ZR/2019/6003801

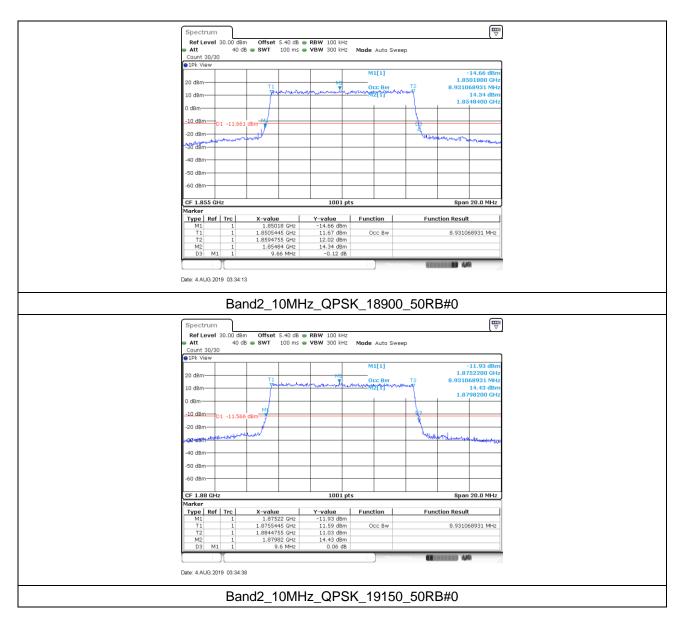
Page: 25 of 68





Report No.: ZR/2019/6003801

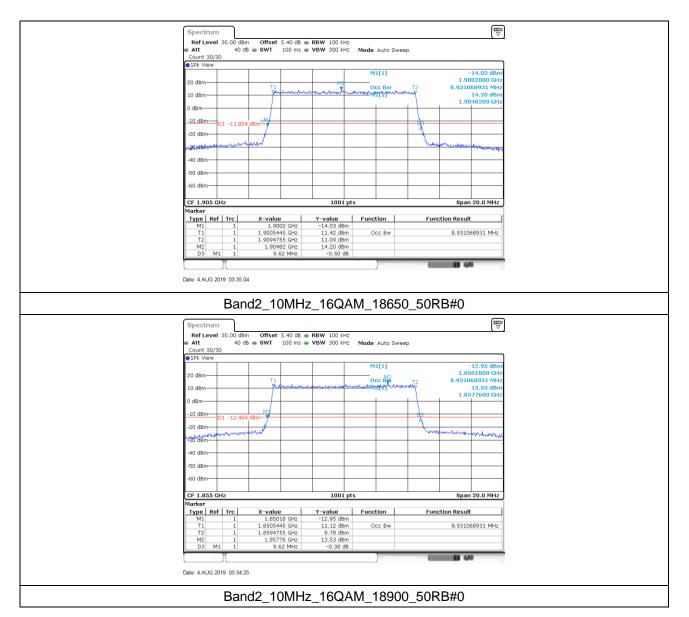
Page: 26 of 68





Report No.: ZR/2019/6003801

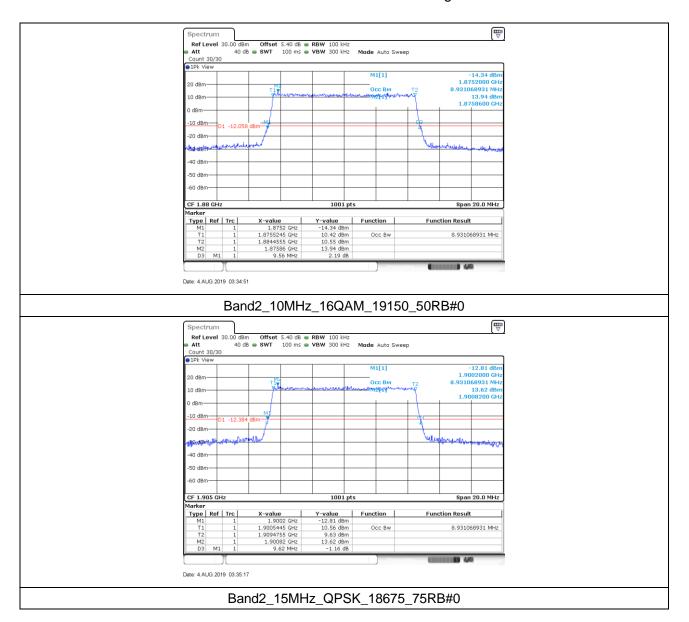
Page: 27 of 68





Report No.: ZR/2019/6003801

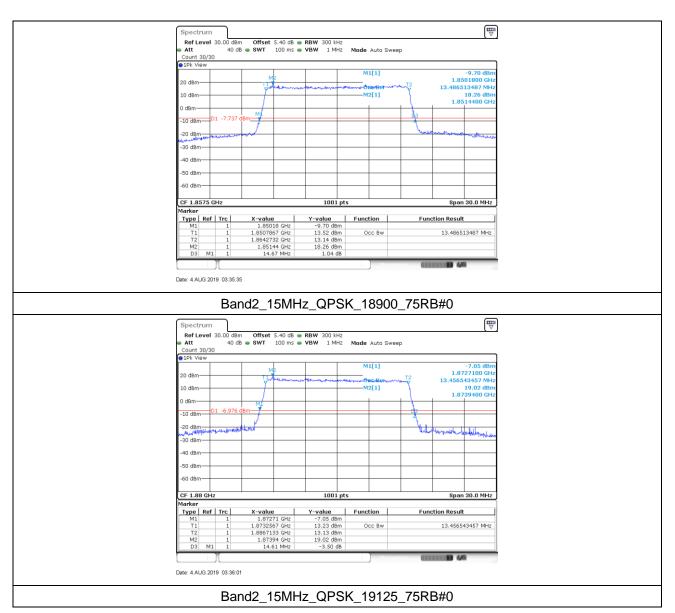
Page: 28 of 68





Report No.: ZR/2019/6003801

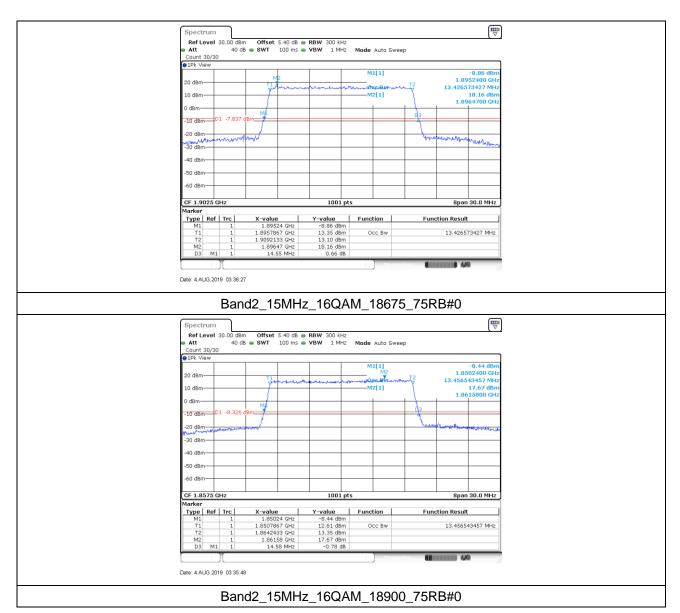
Page: 29 of 68





Report No.: ZR/2019/6003801

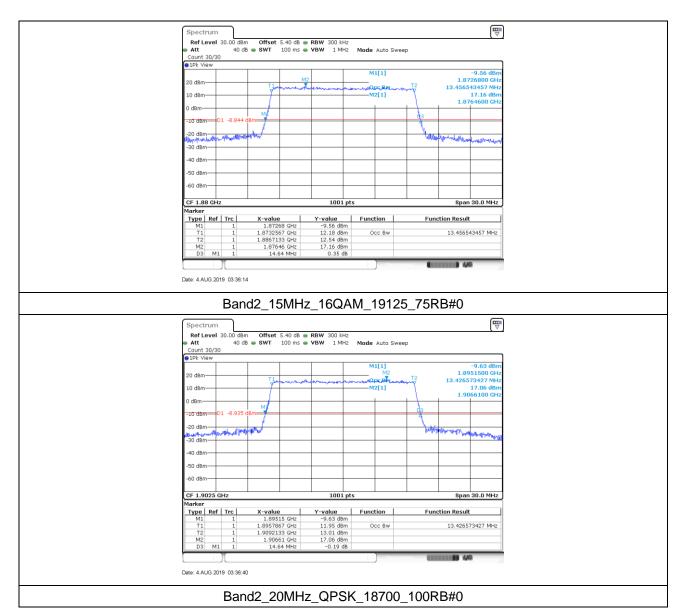
Page: 30 of 68





Report No.: ZR/2019/6003801

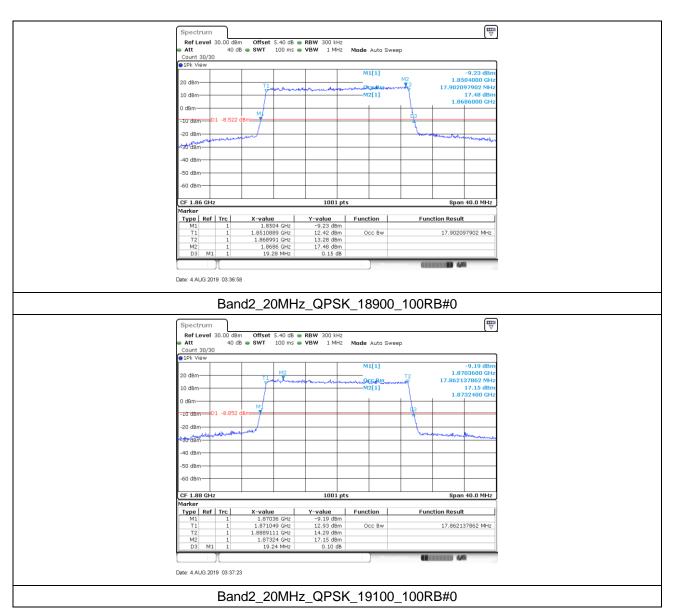
Page: 31 of 68





Report No.: ZR/2019/6003801

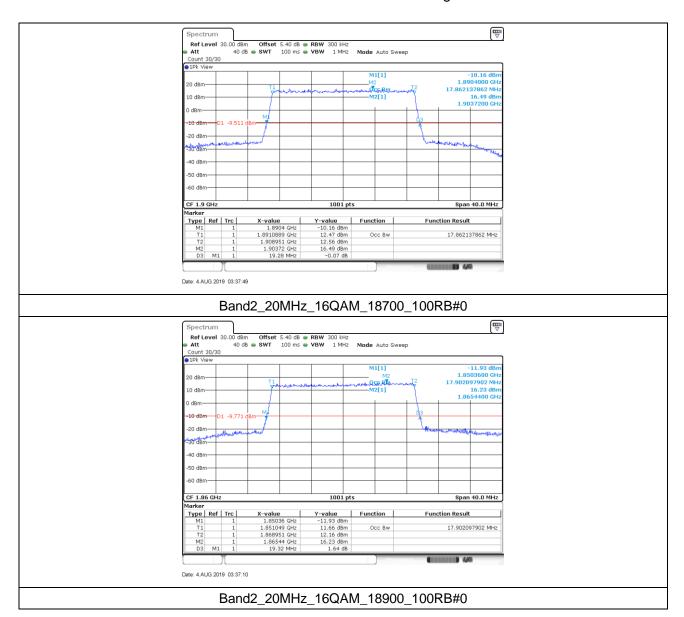
Page: 32 of 68





Report No.: ZR/2019/6003801

Page: 33 of 68

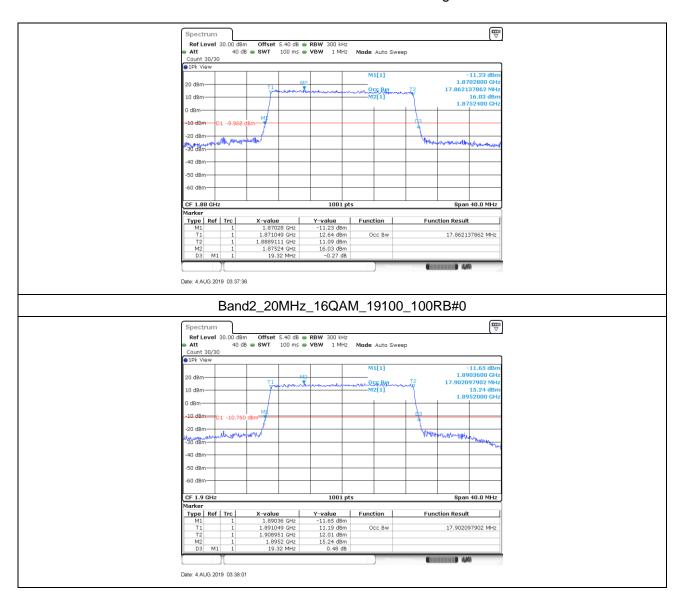






Report No.: ZR/2019/6003801

Page: 34 of 68





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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issue 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report 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,

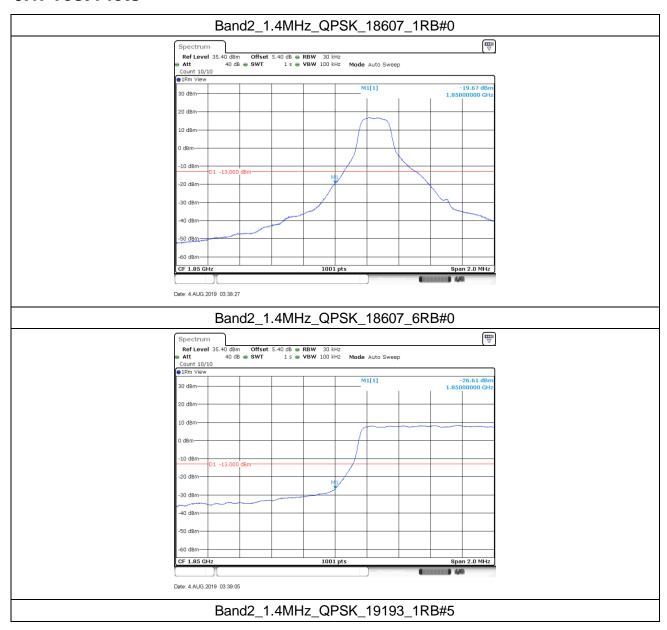
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国·深圳·科技园中区M-10栋一号厂房

邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

Page: 35 of 68

#### 5. Band Edge Compliance

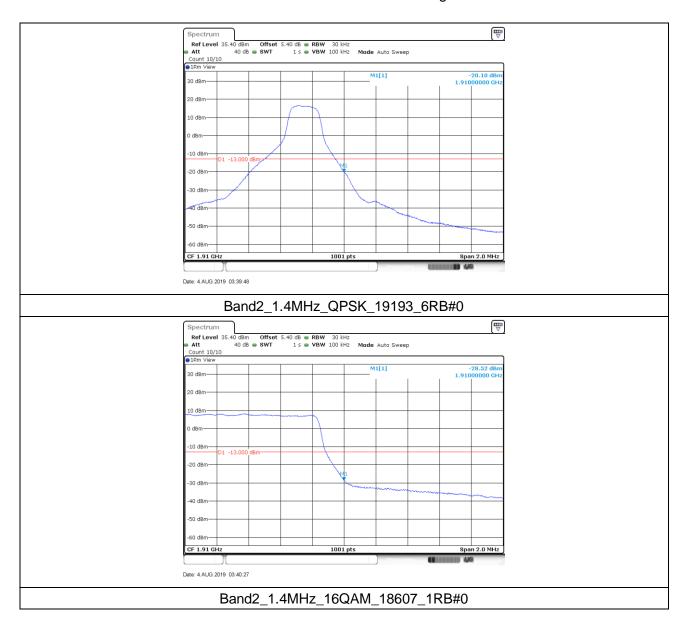
#### 5.1. Test Plots





Report No.: ZR/2019/6003801

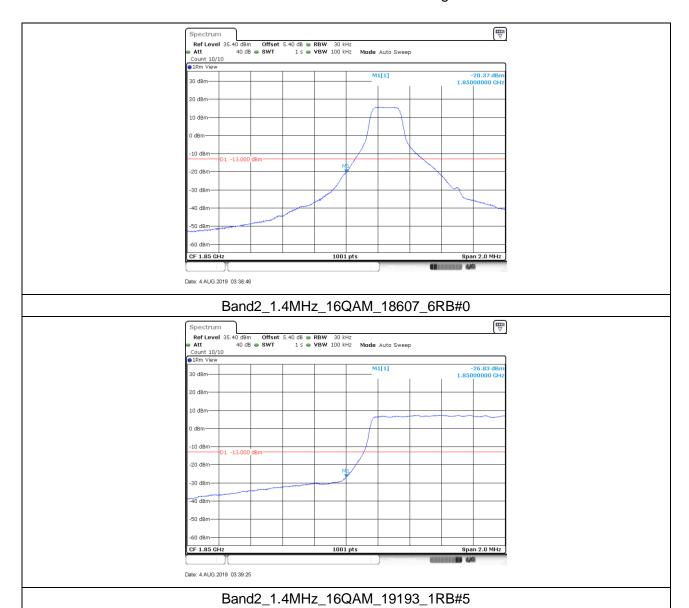
Page: 36 of 68





Report No.: ZR/2019/6003801

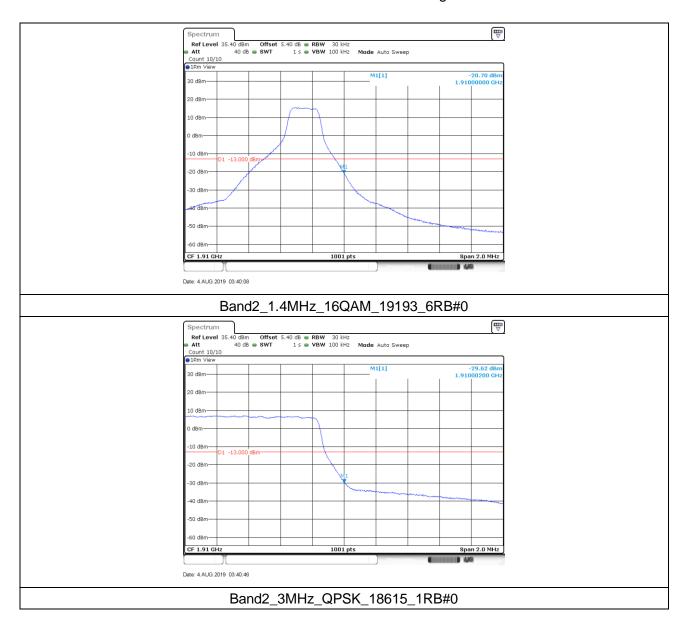
Page: 37 of 68





Report No.: ZR/2019/6003801

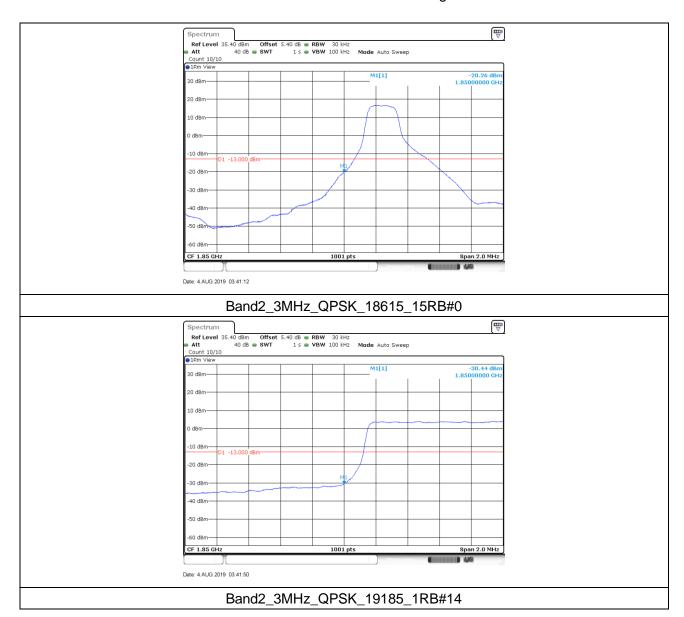
Page: 38 of 68





Report No.: ZR/2019/6003801

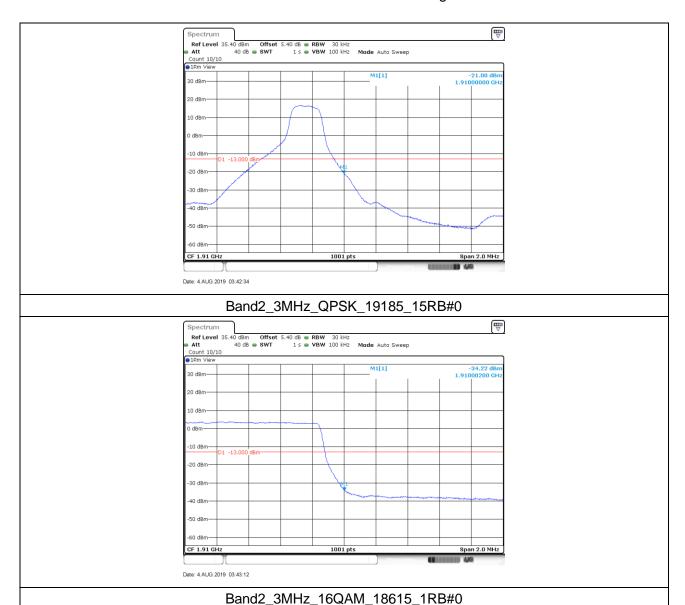
Page: 39 of 68





Report No.: ZR/2019/6003801

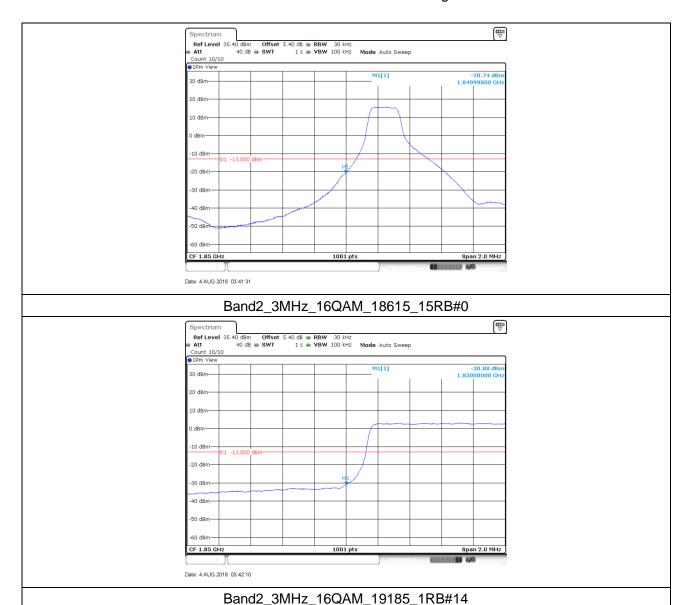
Page: 40 of 68





Report No.: ZR/2019/6003801

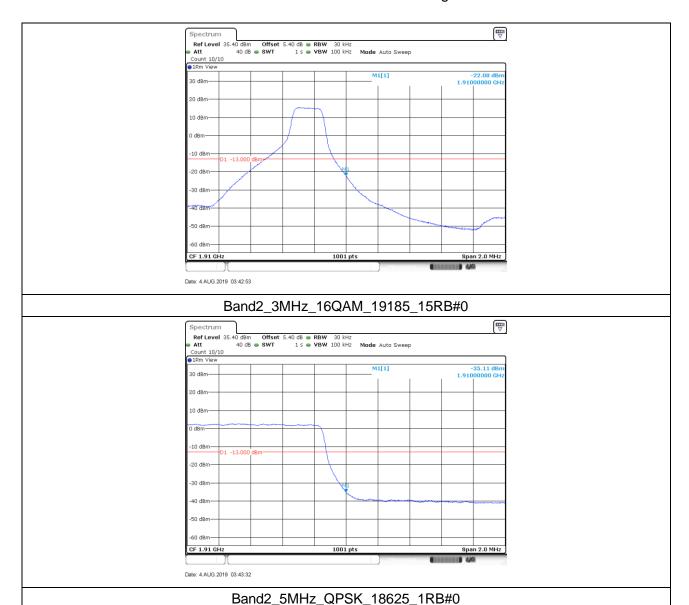
Page: 41 of 68





Report No.: ZR/2019/6003801

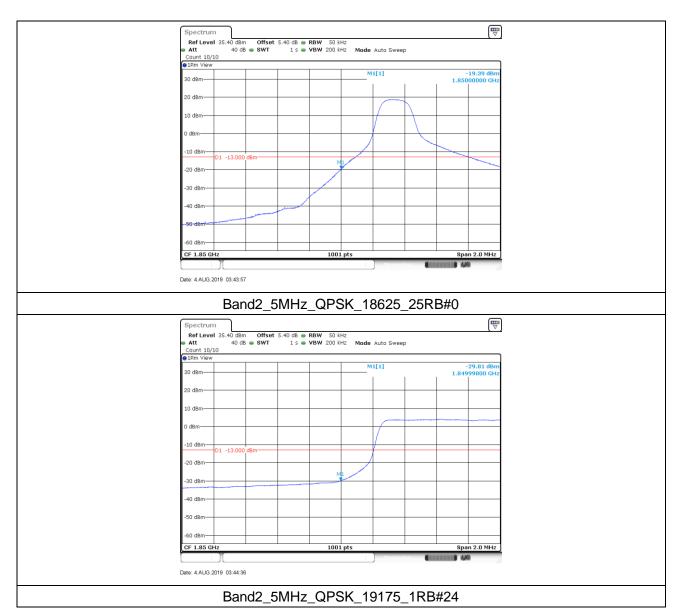
Page: 42 of 68





Report No.: ZR/2019/6003801

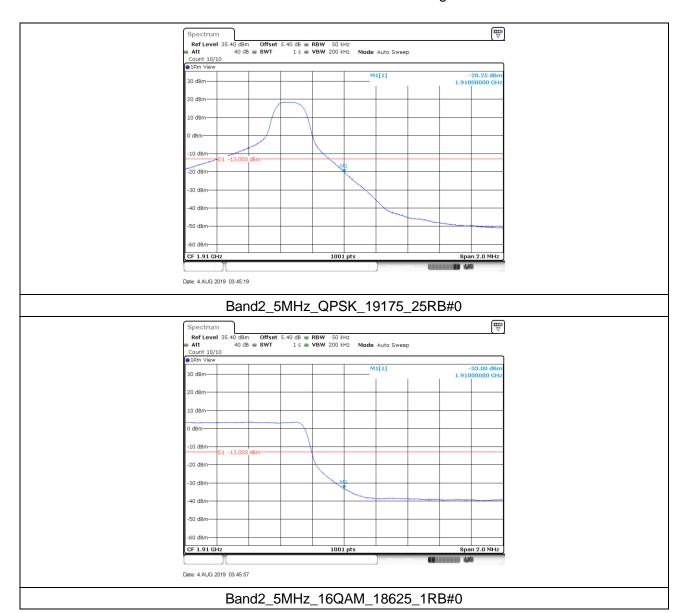
Page: 43 of 68





Report No.: ZR/2019/6003801

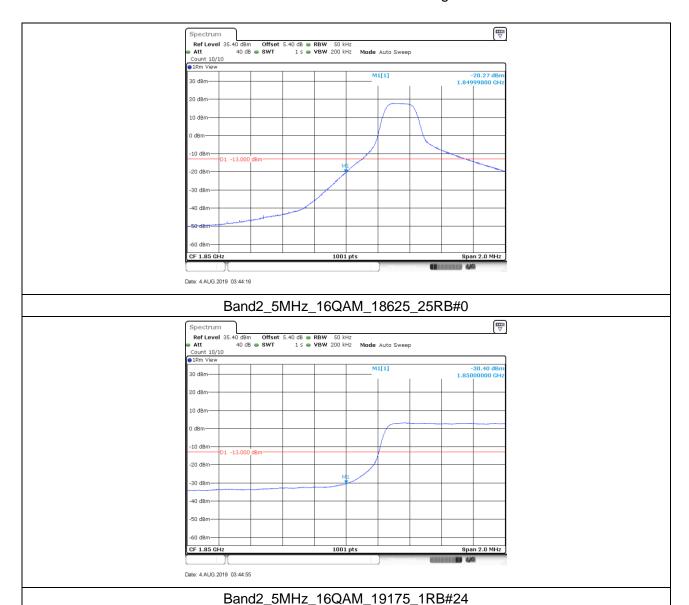
Page: 44 of 68





Report No.: ZR/2019/6003801

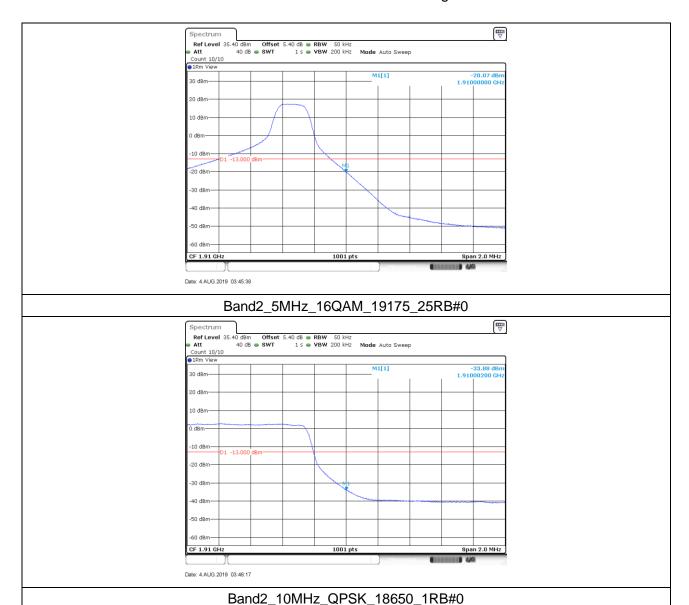
Page: 45 of 68





Report No.: ZR/2019/6003801

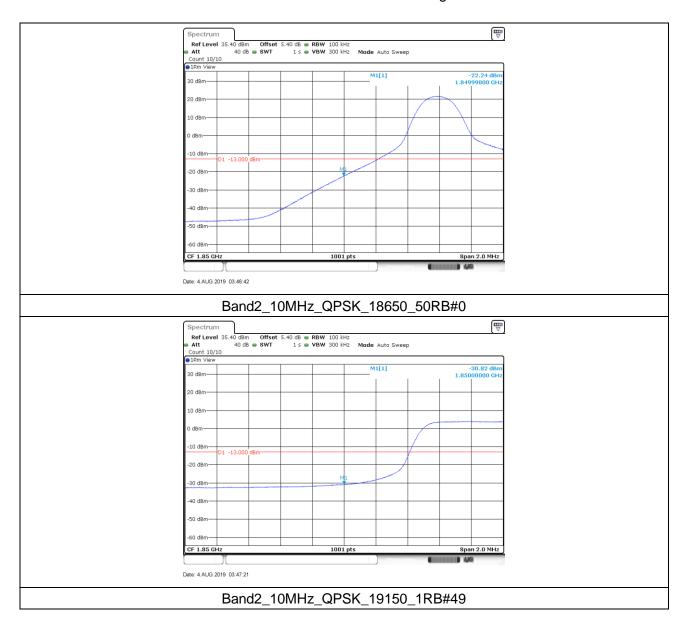
Page: 46 of 68





Report No.: ZR/2019/6003801

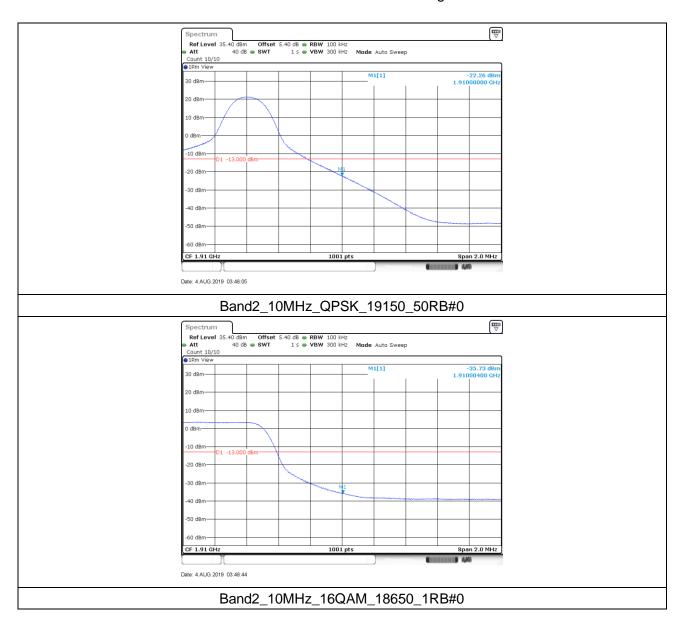
Page: 47 of 68





Report No.: ZR/2019/6003801

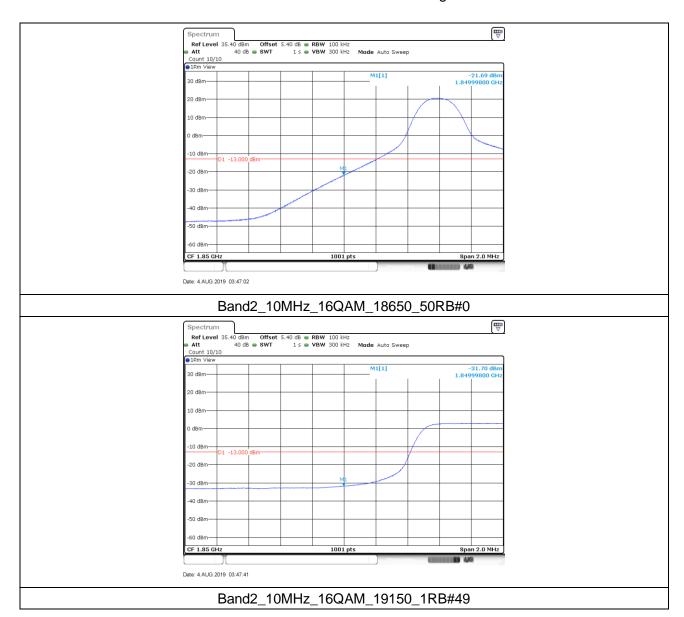
Page: 48 of 68





Report No.: ZR/2019/6003801

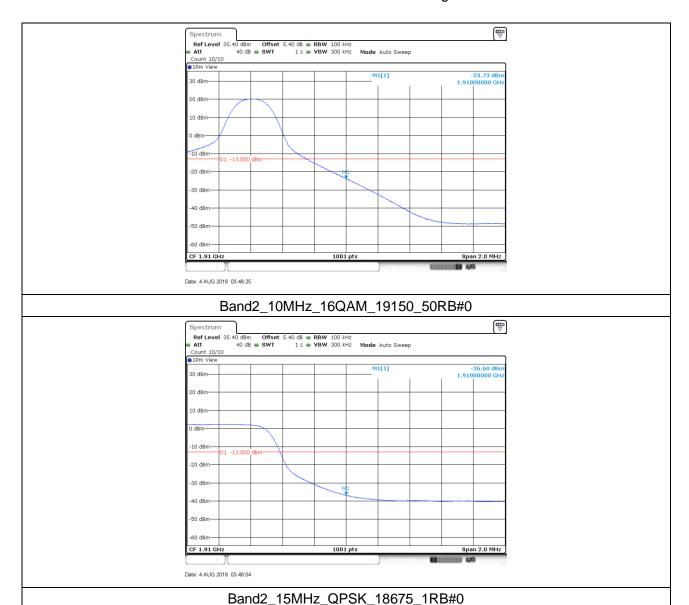
Page: 49 of 68





Report No.: ZR/2019/6003801

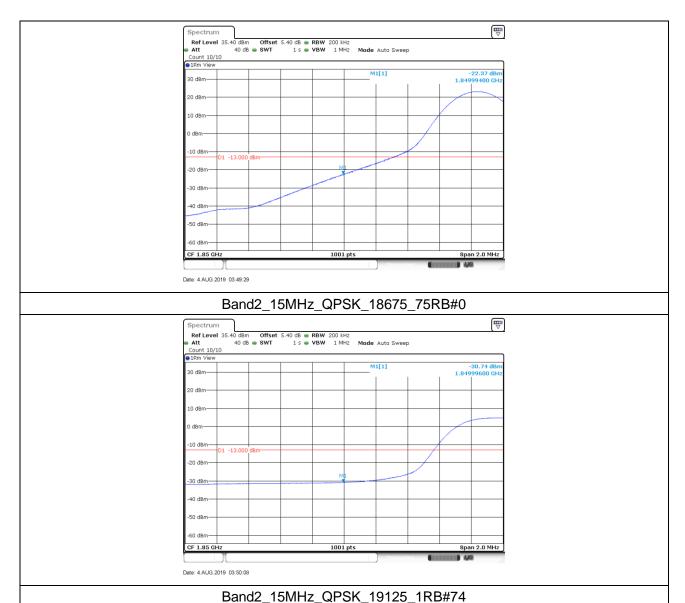
Page: 50 of 68





Report No.: ZR/2019/6003801

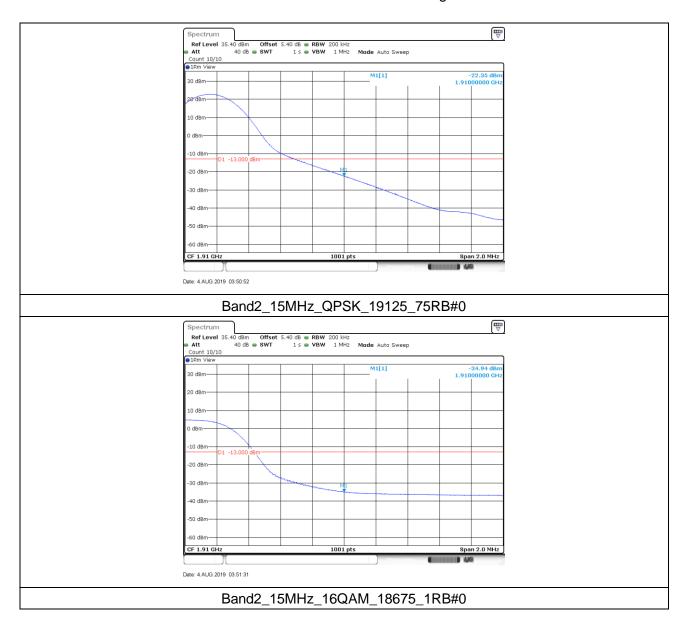
Page: 51 of 68





Report No.: ZR/2019/6003801

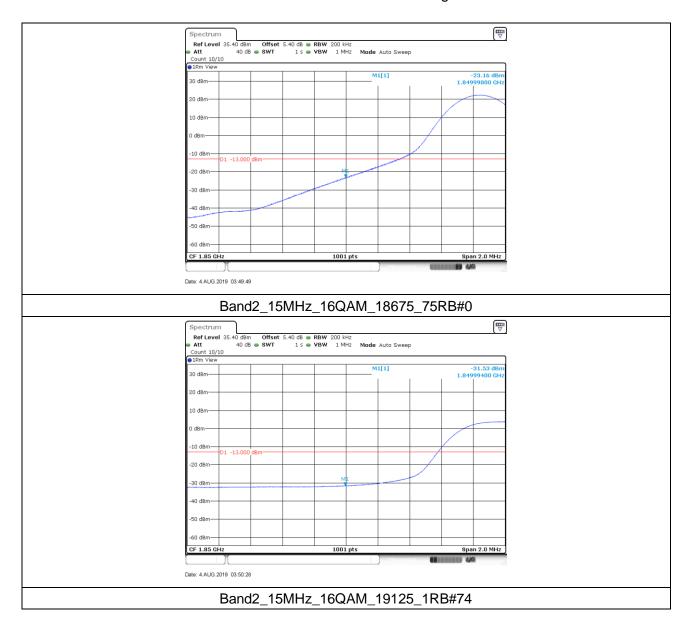
Page: 52 of 68





Report No.: ZR/2019/6003801

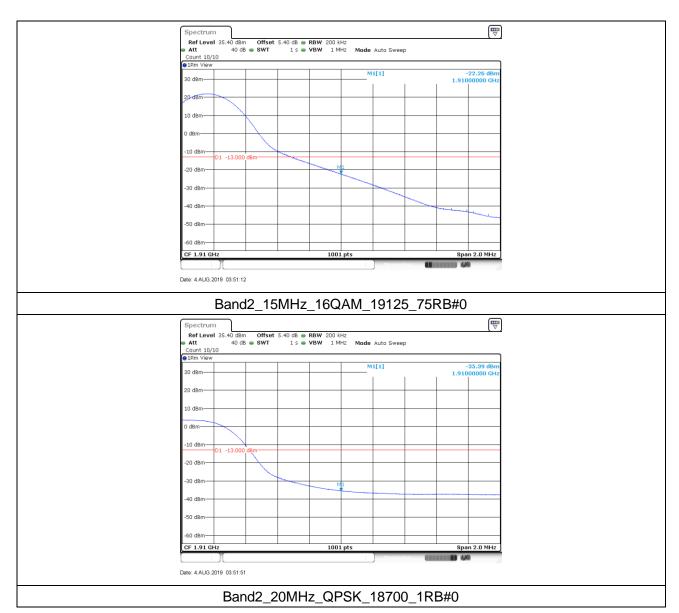
Page: 53 of 68





Report No.: ZR/2019/6003801

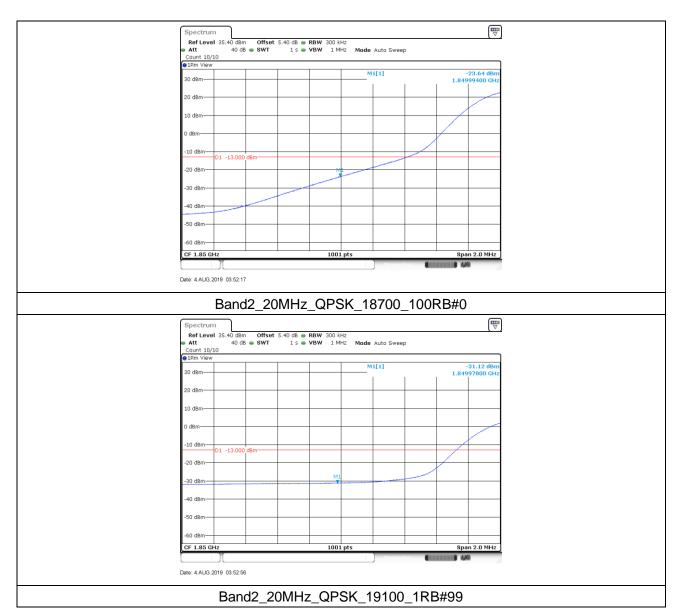
Page: 54 of 68





Report No.: ZR/2019/6003801

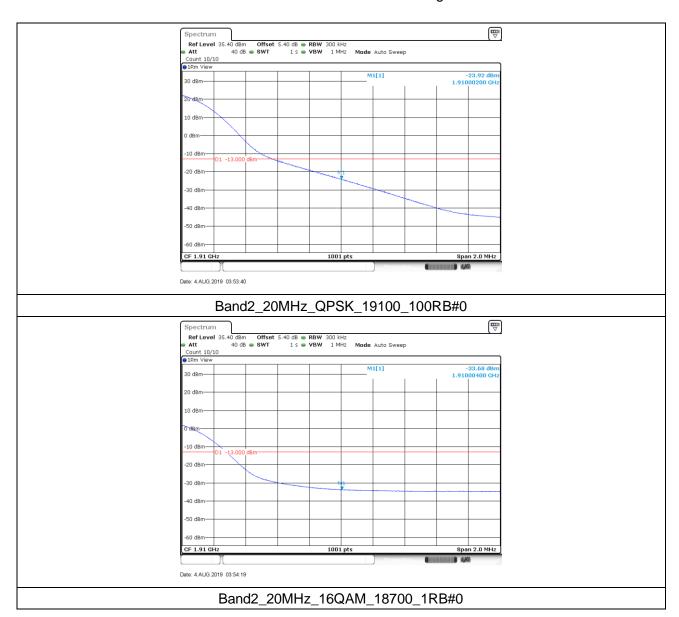
Page: 55 of 68





Report No.: ZR/2019/6003801

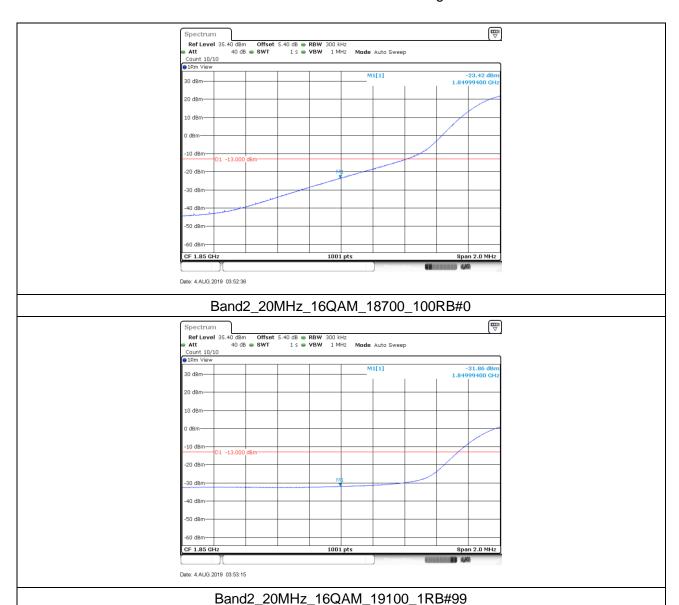
Page: 56 of 68





Report No.: ZR/2019/6003801

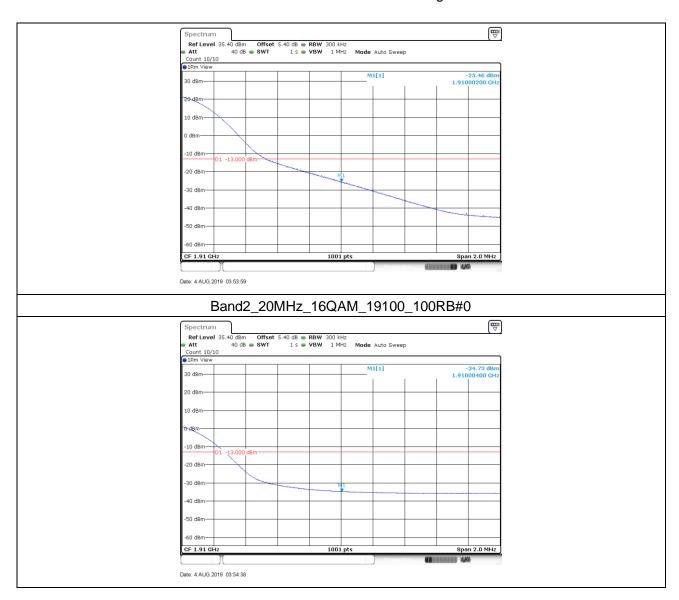
Page: 57 of 68





Report No.: ZR/2019/6003801

Page: 58 of 68





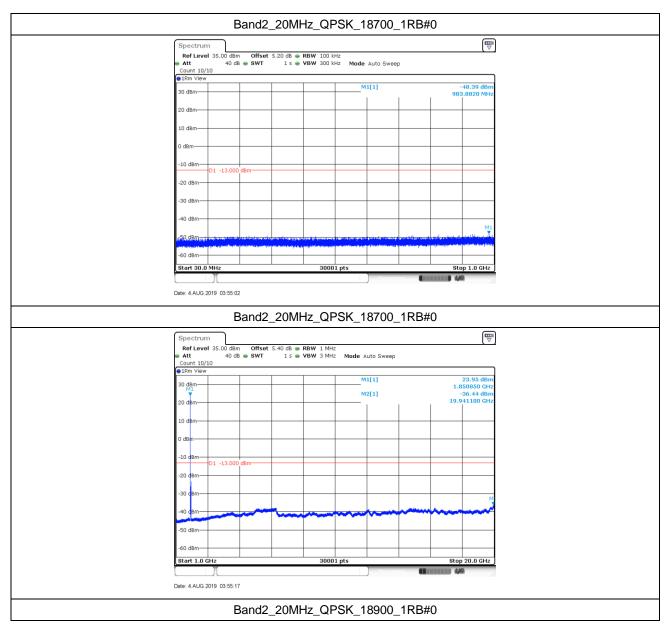
Page: 59 of 68

#### 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: only the worst case data displayed in this report.

#### 6.1. Test Plots





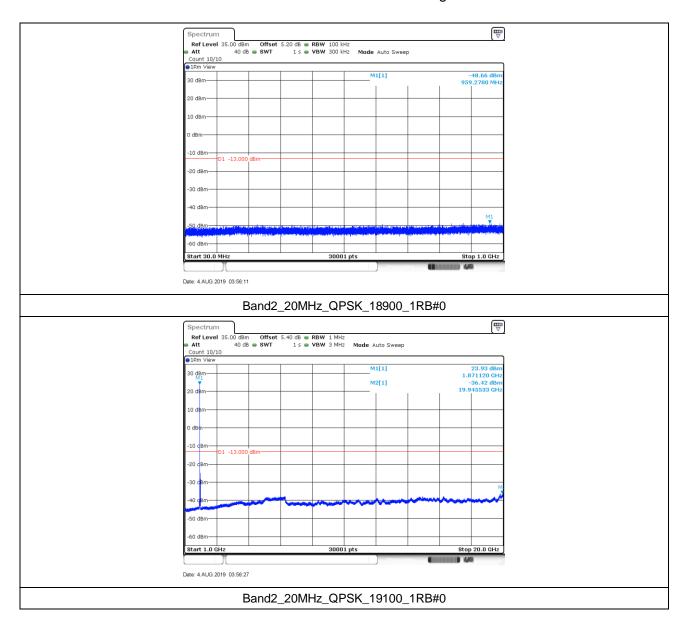
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 tt (86-755) 26012053 ft (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 tt (86-755) 26012053 ft (86-755) 26710594 sgs.china@sgs.com

Report No.: ZR/2019/6003801

Page: 60 of 68





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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issue 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.

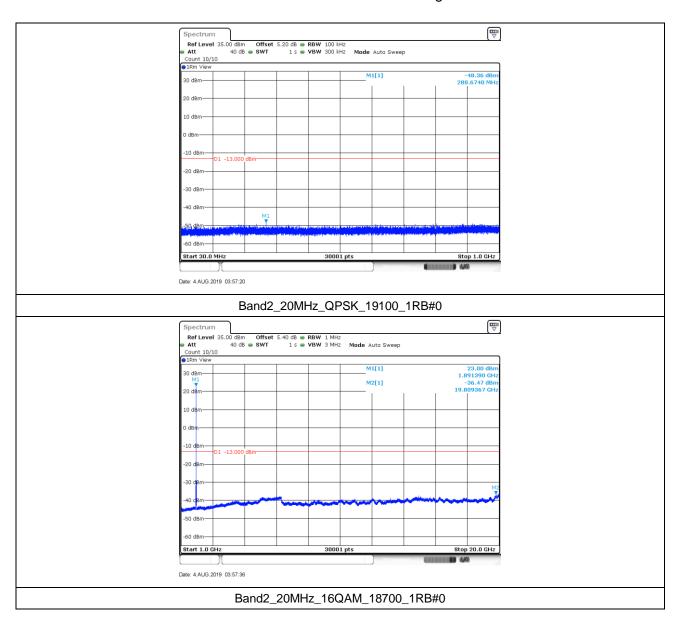
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*.

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

Report No.: ZR/2019/6003801

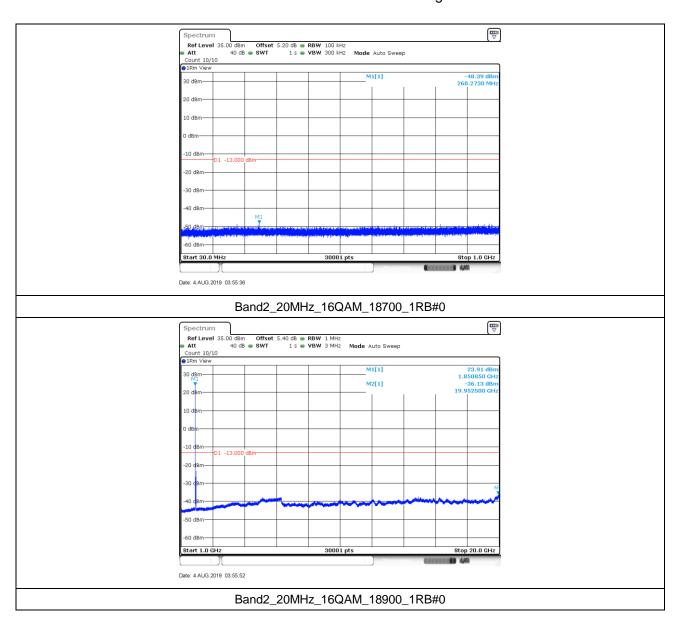
Page: 61 of 68





Report No.: ZR/2019/6003801

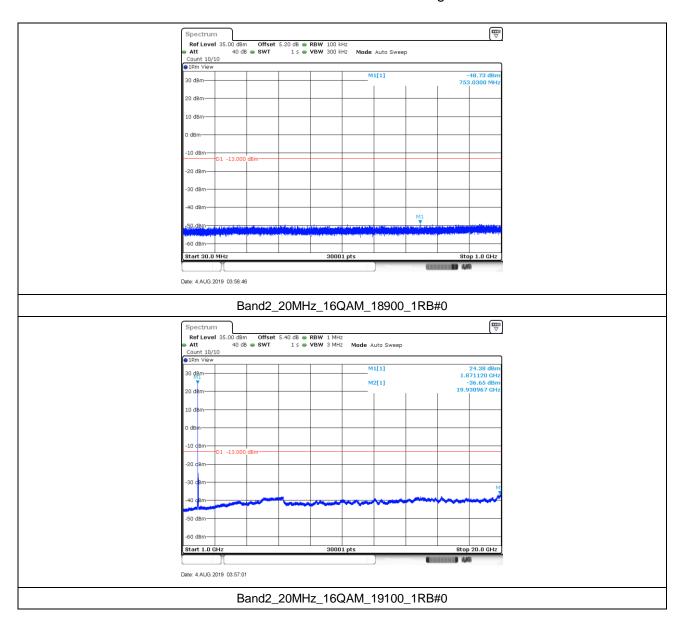
Page: 62 of 68





Report No.: ZR/2019/6003801

Page: 63 of 68

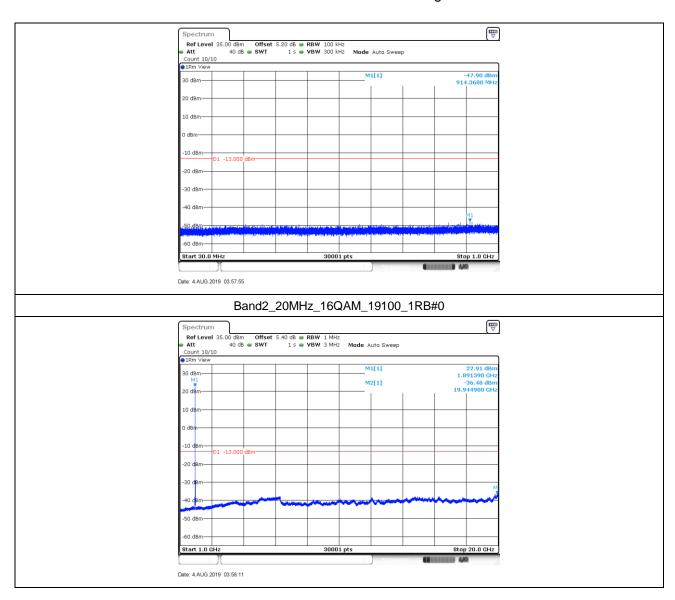






Report No.: ZR/2019/6003801

Page: 64 of 68





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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issue 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, \*\*Certificate\*\*.

sgs.china@sgs.com

Page: 65 of 68

#### 7. Field Strength of Spurious Radiation

#### 7.1. Test Band = LTE Band 2

#### 7.1.1.Test Mode =LTE/TM1

#### 7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
113.2302	-63.22	-13.00	50.22	Vertical
893.5857	-61.68	-13.00	48.68	Vertical
2703.1406	-37.38	-13.00	24.38	Vertical
7403.6468	-52.87	-13.00	39.87	Vertical
14682.3894	-41.88	-13.00	28.88	Vertical
17999.0000	-31.85	-13.00	18.85	Vertical
41.5436	-64.67	-13.00	51.67	Horizontal
787.8989	-61.12	-13.00	48.12	Horizontal
2723.5447	-37.21	-13.00	24.21	Horizontal
8358.1786	-52.75	-13.00	39.75	Horizontal
16387.4462	-37.82	-13.00	24.82	Horizontal
17999.5000	-36.98	-13.00	23.98	Horizontal

#### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.3871	-64.25	-13.00	51.25	Vertical
724.6032	-62.91	-13.00	49.91	Vertical
2699.5399	-37.57	-13.00	24.57	Vertical
7247.6416	-53.58	-13.00	40.58	Vertical
14695.3898	-41.97	-13.00	28.97	Vertical
17994.4998	-31.80	-13.00	18.80	Vertical
43.3867	-64.61	-13.00	51.61	Horizontal
787.2199	-62.14	-13.00	49.14	Horizontal
2700.7401	-36.26	-13.00	23.26	Horizontal
3742.0247	-54.66	-13.00	41.66	Horizontal
16396.9466	-37.74	-13.00	24.74	Horizontal
17998.5000	-36.72	-13.00	23.72	Horizontal



Page: 66 of 68

#### 7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.2416	-64.08	-13.00	51.08	Vertical
866.6183	-59.75	-13.00	46.75	Vertical
2700.3401	-37.58	-13.00	24.58	Vertical
7396.1465	-52.72	-13.00	39.72	Vertical
14516.3839	-42.67	-13.00	29.67	Vertical
17999.5000	-32.00	-13.00	19.00	Vertical
43.9687	-65.20	-13.00	52.20	Horizontal
758.7974	-62.18	-13.00	49.18	Horizontal
2689.5379	-36.32	-13.00	23.32	Horizontal
3782.0261	-55.91	-13.00	42.91	Horizontal
16408.9470	-37.61	-13.00	24.61	Horizontal
17994.9998	-36.71	-13.00	23.71	Horizontal

#### Remark:

- 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 had been displayed.



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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. 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, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at teleph

Page: 67 of 68

#### 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
Band2	20MHz	QPSK	18700	100RB#0	VL	NT	-12.50	-0.006720	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	-7.50	-0.004032	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	-11.10	-0.005968	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-9.20	-0.004894	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-6.80	-0.003617	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-7.70	-0.004096	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	-8.70	-0.004579	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	-9.40	-0.004947	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	-10.60	-0.005579	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VL	NT	-7.40	-0.003978	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VN	NT	-5.80	-0.003118	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VH	NT	-7.80	-0.004194	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VL	NT	-5.90	-0.003138	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VN	NT	-10.70	-0.005691	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VH	NT	-7.00	-0.003723	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VL	NT	-6.80	-0.003579	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VN	NT	-5.00	-0.002632	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VH	NT	-4.30	-0.002263	±2.5	PASS

#### 8.2. Frequency Vs Temperature

	=	_	_							
Band	Band Bandwidth	width Modulation	Channel	RB	Voltage	Temperature	Deviation	Deviation	Limit	Verdict
Dariu Dariuwiulii	iviodulation	Charine	Configure	[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	verdict	
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	-14.30	-0.007688	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	-11.80	-0.006344	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	-9.60	-0.005161	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	-11.50	-0.006183	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	-8.80	-0.004731	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	-8.30	-0.004462	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	-8.30	-0.004462	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	-6.40	-0.003441	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-6.60	-0.003511	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-7.50	-0.003989	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-3.20	-0.001702	±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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. 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, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at telephone: (86-755) 8307 1443, \*\*Certificate\*\*, please contact us at teleph

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 tt (86-755) 26012053 ft (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 tt (86-755) 26012053 ft (86-755) 26710594 sgs.china@sgs.com



Report No.: ZR/2019/6003801

Page: 68 of 68

[							I			
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-3.90	-0.002074	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-6.90	-0.003670	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-4.50	-0.002394	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-8.40	-0.004468	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-11.50	-0.006117	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	-8.90	-0.004684	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	-6.00	-0.003158	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	-11.50	-0.006053	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-3.90	-0.002053	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	-7.70	-0.004053	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	-1.50	-0.000789	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	-7.20	-0.003789	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	-9.60	-0.005053	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-30	-4.00	-0.002151	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-20	-8.10	-0.004355	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	0	-5.90	-0.003172	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	10	-5.10	-0.002742	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	20	-4.90	-0.002634	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	30	-8.60	-0.004624	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	40	-6.20	-0.003333	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	50	-6.70	-0.003602	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-30	-8.80	-0.004681	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-20	-13.20	-0.007021	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	0	-13.60	-0.007234	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	10	-9.70	-0.005160	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	20	-16.20	-0.008617	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	30	-11.80	-0.006277	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	40	-13.20	-0.007021	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	50	-0.80	-0.000426	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-30	-8.20	-0.004316	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-20	-5.40	-0.002842	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	0	-10.50	-0.005526	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	10	-7.10	-0.003737	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	20	-3.90	-0.002053	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	30	-6.40	-0.003368	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	40	-3.20	-0.001684	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	50	-7.60	-0.004000	±2.5	PASS

The End



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 <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issue 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 document does not exonerate parties to a transaction prome exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report 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, \*\*Contact United States\*\* and the content of the c

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株一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com