



CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER 3

1.1. TEST RESULT 3

2. PEAK-TO-AVERAGE RATIO (CCDF)12

2.1. TEST RESULT 12

2.2. TEST PLOTS..... 12

3. MODULATION CHARACTERISTICS17

3.1. TEST MODE = LTE /TM1 20MHZ..... 17

3.1.1. TEST CHANNEL = MCH..... 17

3.2. TEST MODE = LTE /TM2 20MHZ..... 18

3.2.1. TEST CHANNEL = MCH..... 18

3.3. TEST MODE = LTE /TM3 20MHZ..... 19

3.3.1. TEST CHANNEL = MCH..... 19

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH20

4.1. TEST RESULT 20

4.2. TEST PLOTS..... 21

5. BAND EDGE COMPLIANCE49

5.1. TEST PLOTS..... 49

6. SPURIOUS EMISSION AT ANTENNA TERMINAL85

6.1. TEST PLOTS..... 85

7. FIELD STRENGTH OF SPURIOUS RADIATION94

7.1. TEST MODE =LTE/TM1 20MHZ 94

7.1.1. TEST CHANNEL = LCH 94

7.1.2. TEST CHANNEL = MCH..... 94

7.1.3. TEST CHANNEL = HCH..... 95

8. FREQUENCY STABILITY.....96

8.1. FREQUENCY VS VOLTAGE 96

8.2. FREQUENCY VS TEMPERATURE 96



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

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

1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.37	23.87	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.39	23.89	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.50	24.00	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.48	23.98	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.53	24.03	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.49	23.99	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.48	22.98	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.55	24.05	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.40	23.90	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.40	23.90	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.57	24.07	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.50	24.00	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.53	24.03	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.52	23.02	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.35	23.85	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.50	24.00	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.35	23.85	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.46	23.96	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.51	24.01	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.46	23.96	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.48	22.98	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.56	22.06	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.46	21.96	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.44	21.94	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	21.50	22.00	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	21.54	22.04	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	21.49	21.99	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	20.45	20.95	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.48	21.98	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.55	22.05	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.65	22.15	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	21.55	22.05	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	21.54	22.04	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	21.66	22.16	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.54	21.04	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.48	21.98	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.53	22.03	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.64	22.14	30.00	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Band4	1.4MHz	64QAM	20393	3RB#1	21.61	22.11	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	21.58	22.08	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	21.56	22.06	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.48	20.98	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.66	23.16	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.73	23.23	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.64	23.14	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.57	23.07	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.63	23.13	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.58	23.08	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.52	22.02	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.75	23.25	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.64	23.14	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.56	23.06	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.64	23.14	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.62	23.12	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.61	23.11	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.59	22.09	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.44	22.94	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.63	23.13	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.49	22.99	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.46	22.96	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.52	23.02	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.54	23.04	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.52	22.02	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.43	23.93	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.40	23.90	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.43	23.93	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.49	22.99	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.45	22.95	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.45	22.95	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.46	22.96	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.47	23.97	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.47	23.97	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.45	23.95	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.51	23.01	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.54	23.04	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.52	23.02	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.50	23.00	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.40	23.90	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.41	23.91	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.41	23.91	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.45	22.95	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.45	22.95	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.46	22.96	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.47	22.97	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.50	22.00	30.00	PASS



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

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



Band4	3MHz	64QAM	19965	1RB#14	21.49	21.99	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.50	22.00	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#0	20.44	20.94	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#4	20.47	20.97	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#7	20.46	20.96	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.41	20.91	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.60	22.10	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.57	22.07	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.64	22.14	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#0	20.53	21.03	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#4	20.55	21.05	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#7	20.50	21.00	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.51	21.01	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.60	22.10	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.55	22.05	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.57	22.07	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#0	20.51	21.01	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#4	20.52	21.02	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#7	20.50	21.00	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.48	20.98	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.65	23.15	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.76	23.26	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.71	23.21	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.50	22.00	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.55	22.05	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.54	22.04	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.43	21.93	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.72	23.22	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.68	23.18	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.69	23.19	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.56	22.06	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.58	22.08	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.58	22.08	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.50	22.00	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.61	23.11	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.55	23.05	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.69	23.19	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.49	21.99	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.47	21.97	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.50	22.00	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.44	21.94	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.32	23.82	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.31	23.81	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.58	24.08	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.45	22.95	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.50	23.00	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.43	22.93	30.00	PASS



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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	5MHz	QPSK	19975	25RB#0	22.46	22.96	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.63	24.13	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.35	23.85	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.34	23.84	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.55	23.05	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.46	22.96	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.47	22.97	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.48	22.98	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.29	23.79	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.56	24.06	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.30	23.80	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.41	22.91	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.52	23.02	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.42	22.92	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.46	22.96	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.66	22.16	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.43	21.93	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.41	21.91	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#13	20.37	20.87	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#0	20.42	20.92	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#6	20.48	20.98	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.44	20.94	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.49	21.99	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.72	22.22	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.50	22.00	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#0	20.45	20.95	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#13	20.48	20.98	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#6	20.57	21.07	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.51	21.01	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.47	21.97	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.78	22.28	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.41	21.91	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#6	20.56	21.06	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#13	20.47	20.97	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#0	20.45	20.95	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.52	21.02	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.72	23.22	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.52	23.02	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.59	23.09	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.44	21.94	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.52	22.02	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.46	21.96	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.46	21.96	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.80	23.30	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.64	23.14	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.60	23.10	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.55	22.05	30.00	PASS



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	5MHz	16QAM	20175	12RB#0	21.47	21.97	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.48	21.98	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.46	21.96	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.67	23.17	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.56	23.06	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.44	22.94	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.50	22.00	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.45	21.95	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.44	21.94	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.46	21.96	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.42	23.92	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.39	23.89	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.55	24.05	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.48	22.98	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.49	22.99	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.48	22.98	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.47	22.97	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.43	23.93	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.54	24.04	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.47	23.97	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.50	23.00	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.55	23.05	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.49	22.99	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.49	22.99	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.37	23.87	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.39	23.89	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.49	23.99	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.48	22.98	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.45	22.95	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.50	23.00	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.47	22.97	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.71	22.21	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.58	22.08	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.53	22.03	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#12	20.49	20.99	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#25	20.47	20.97	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#0	20.49	20.99	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.45	20.95	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.65	22.15	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.69	22.19	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.66	22.16	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#25	20.52	21.02	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#0	20.50	21.00	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#12	20.56	21.06	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.52	21.02	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.56	22.06	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.62	22.12	30.00	PASS



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

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



Band4	10MHz	64QAM	20350	1RB#24	21.74	22.24	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#0	20.55	21.05	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#25	20.53	21.03	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#12	20.55	21.05	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.52	21.02	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.81	23.31	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.66	23.16	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.66	23.16	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.49	21.99	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.50	22.00	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.48	21.98	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.47	21.97	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.65	23.15	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.71	23.21	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.80	23.30	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.50	22.00	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.49	21.99	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.53	22.03	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.48	21.98	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.64	23.14	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.66	23.16	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.51	23.01	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.46	21.96	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.50	22.00	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.46	21.96	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.45	21.95	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.47	23.97	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.40	23.90	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.32	23.82	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.53	23.03	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.56	23.06	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.49	22.99	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.50	23.00	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.47	23.97	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.39	23.89	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.33	23.83	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.49	22.99	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.54	23.04	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.51	23.01	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.50	23.00	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.28	23.78	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.30	23.80	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.41	23.91	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	22.51	23.01	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	22.42	22.92	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	22.49	22.99	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.48	22.98	30.00	PASS



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

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



Band4	15MHz	64QAM	20025	1RB#0	21.39	21.89	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.58	22.08	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.52	22.02	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#0	20.45	20.95	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#18	20.48	20.98	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#39	20.49	20.99	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.48	20.98	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.52	22.02	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.55	22.05	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.65	22.15	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#39	20.51	21.01	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#0	20.47	20.97	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#18	20.52	21.02	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.51	21.01	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.46	21.96	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.43	21.93	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.60	22.10	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#39	20.48	20.98	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#18	20.51	21.01	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#0	20.52	21.02	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.54	21.04	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.66	23.16	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.74	23.24	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.61	23.11	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	21.46	21.96	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.51	22.01	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.52	22.02	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.51	22.01	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.53	23.03	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.75	23.25	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.67	23.17	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	21.47	21.97	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.55	22.05	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	21.51	22.01	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.50	22.00	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.61	23.11	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.57	23.07	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.57	23.07	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.50	22.00	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	21.41	21.91	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.48	21.98	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.45	21.95	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.13	23.63	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.55	24.05	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.21	23.71	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.57	23.07	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.57	23.07	30.00	PASS



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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	20MHz	QPSK	20050	50RB#0	22.48	22.98	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.54	23.04	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.11	23.61	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.22	23.72	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.54	24.04	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.47	22.97	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.54	23.04	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.48	22.98	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.46	22.96	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.16	23.66	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.08	23.58	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.53	24.03	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.42	22.92	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.54	23.04	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.56	23.06	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.50	23.00	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.32	21.82	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.67	22.17	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.22	21.72	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#50	20.60	21.10	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#25	20.54	21.04	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#0	20.49	20.99	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.55	21.05	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.73	22.23	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.38	21.88	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.35	21.85	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#0	20.48	20.98	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#25	20.55	21.05	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#50	20.48	20.98	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.47	20.97	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.31	21.81	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.30	21.80	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.75	22.25	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#0	20.59	21.09	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#25	20.58	21.08	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#50	20.48	20.98	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.57	21.07	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.42	22.92	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.81	23.31	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.52	23.02	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.57	22.07	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.48	21.98	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.55	22.05	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.56	22.06	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.49	22.99	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.81	23.31	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.43	22.93	30.00	PASS



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

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



Band4	20MHz	16QAM	20175	50RB#50	21.47	21.97	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.46	21.96	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.54	22.04	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.48	21.98	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.41	22.91	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.33	22.83	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.68	23.18	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.40	21.90	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.48	21.98	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.53	22.03	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.48	21.98	30.00	PASS

Remark:

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

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

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



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

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

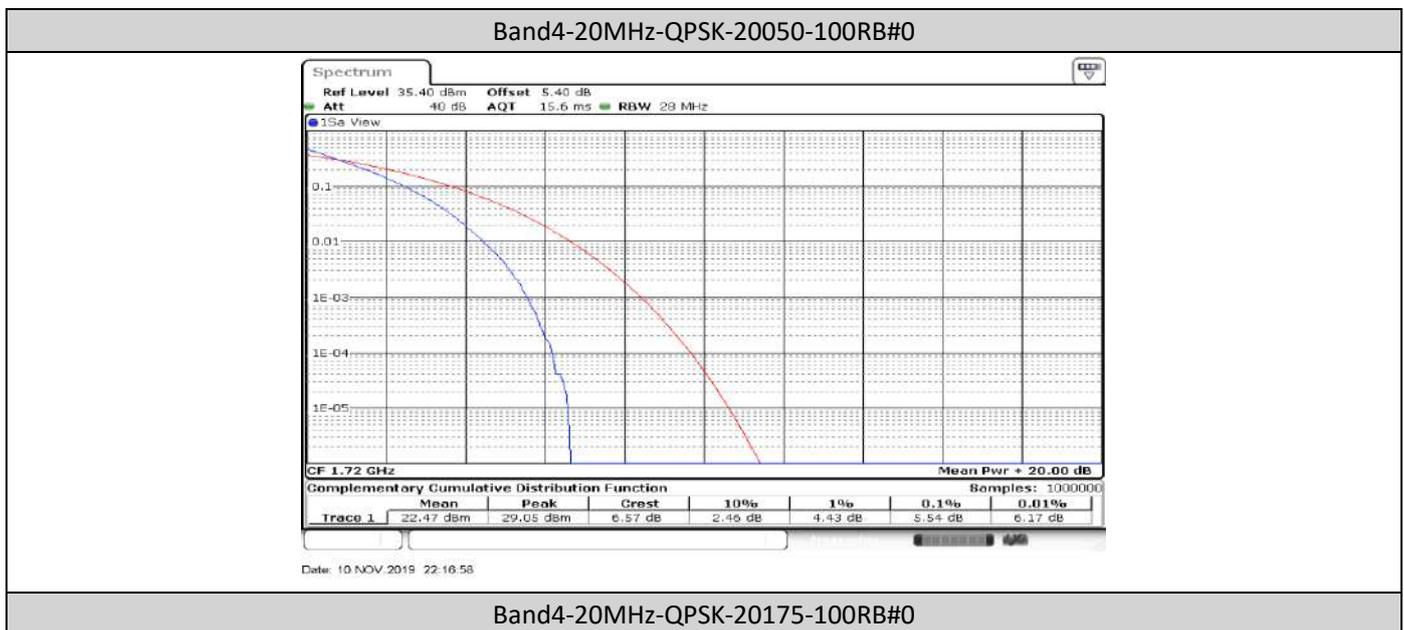


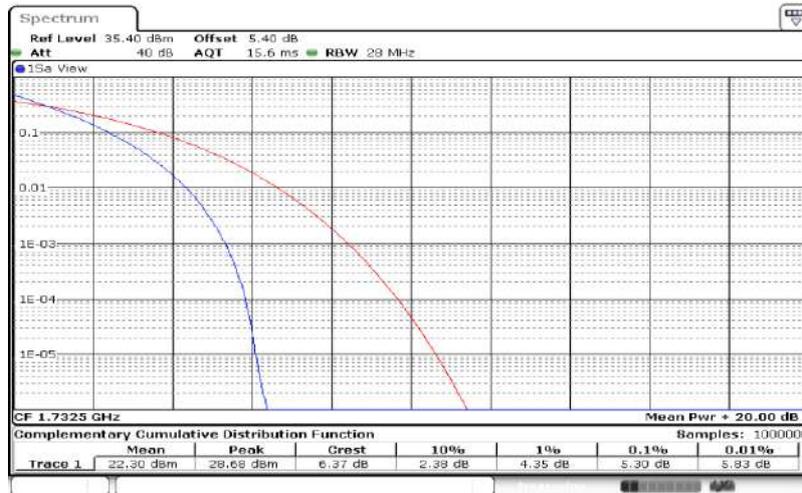
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.54	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.30	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.07	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.64	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.58	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.41	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.35	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.17	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.94	13	PASS

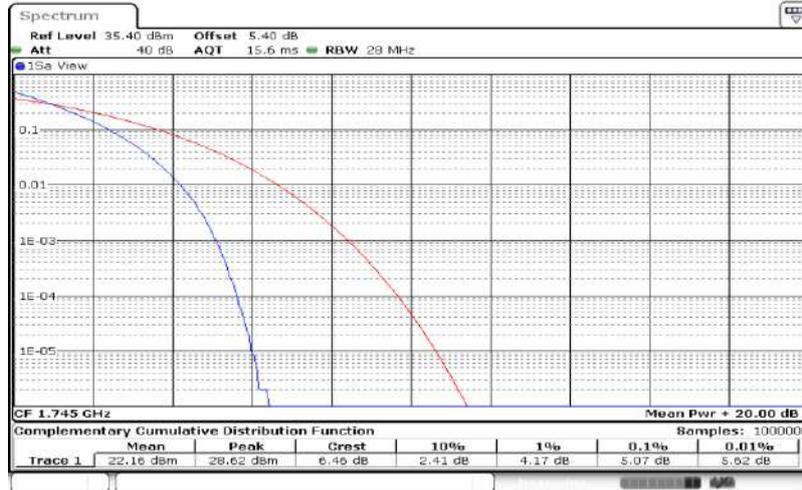
2.2. Test Plots





Date: 10.NOV.2019 22:17:18

Band4-20MHz-QPSK-20300-100RB#0



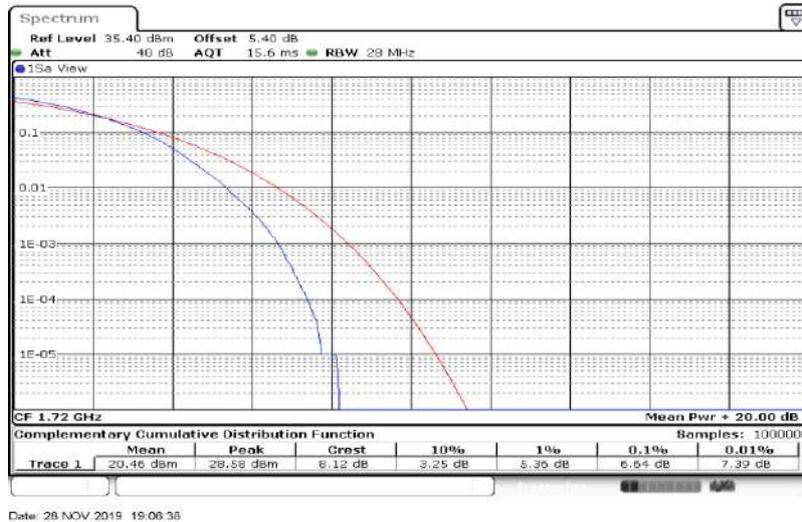
Date: 10.NOV.2019 22:17:37

Band4-20MHz-64QAM-20050-100RB#0



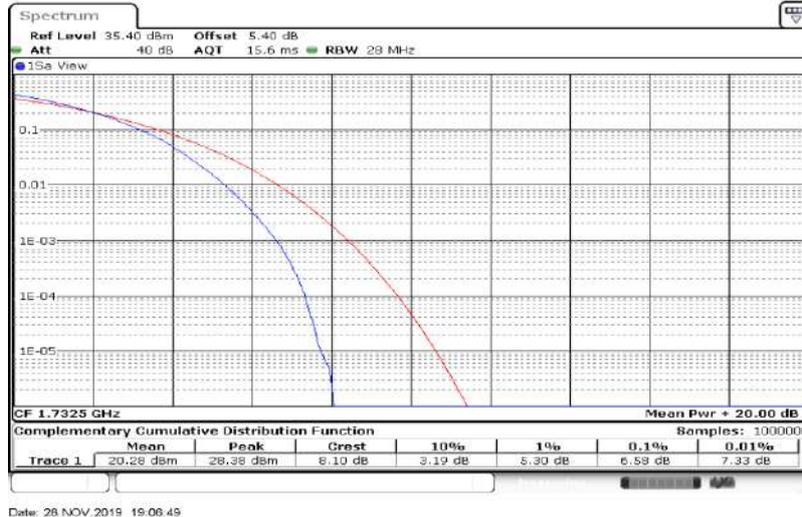
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 28 NOV 2019 19:06:38

Band4-20MHz-64QAM-20175-100RB#0



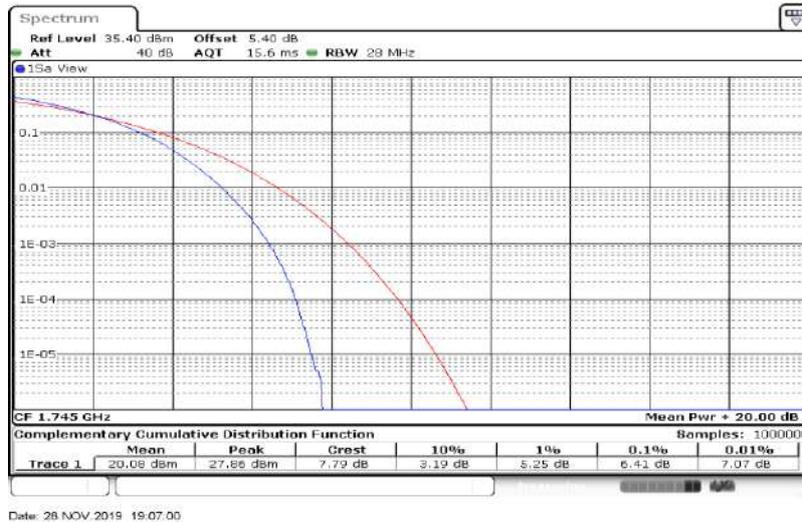
Date: 28 NOV 2019 19:06:49

Band4-20MHz-64QAM-20300-100RB#0



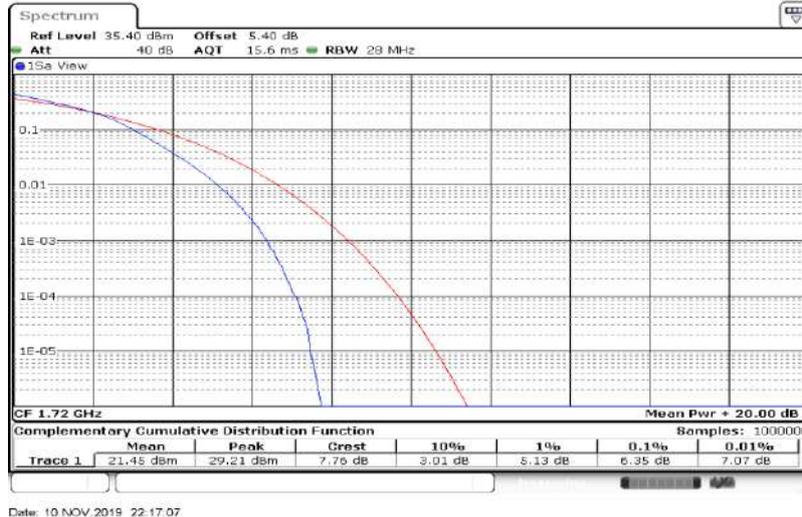
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 28 NOV 2019 19:07:00

Band4-20MHz-16QAM-20050-100RB#0



Date: 10 NOV 2019 22:17:07

Band4-20MHz-16QAM-20175-100RB#0



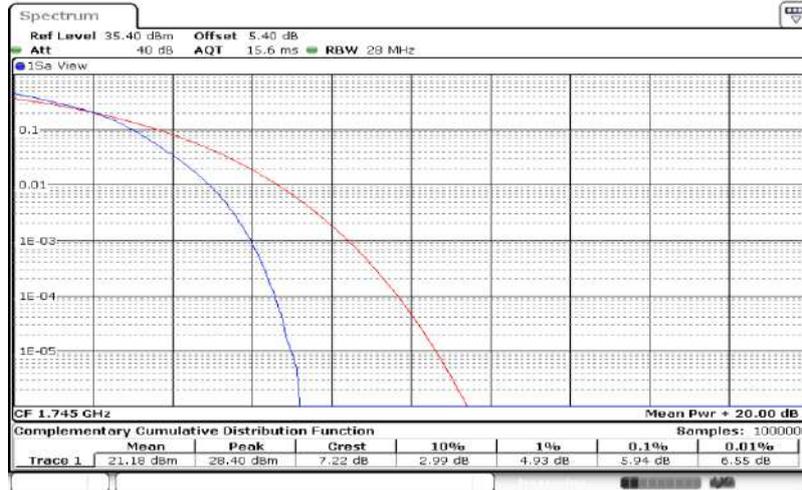
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 10 NOV 2019 22:17:28

Band4-20MHz-16QAM-20300-100RB#0



Date: 10 NOV 2019 22:17:46



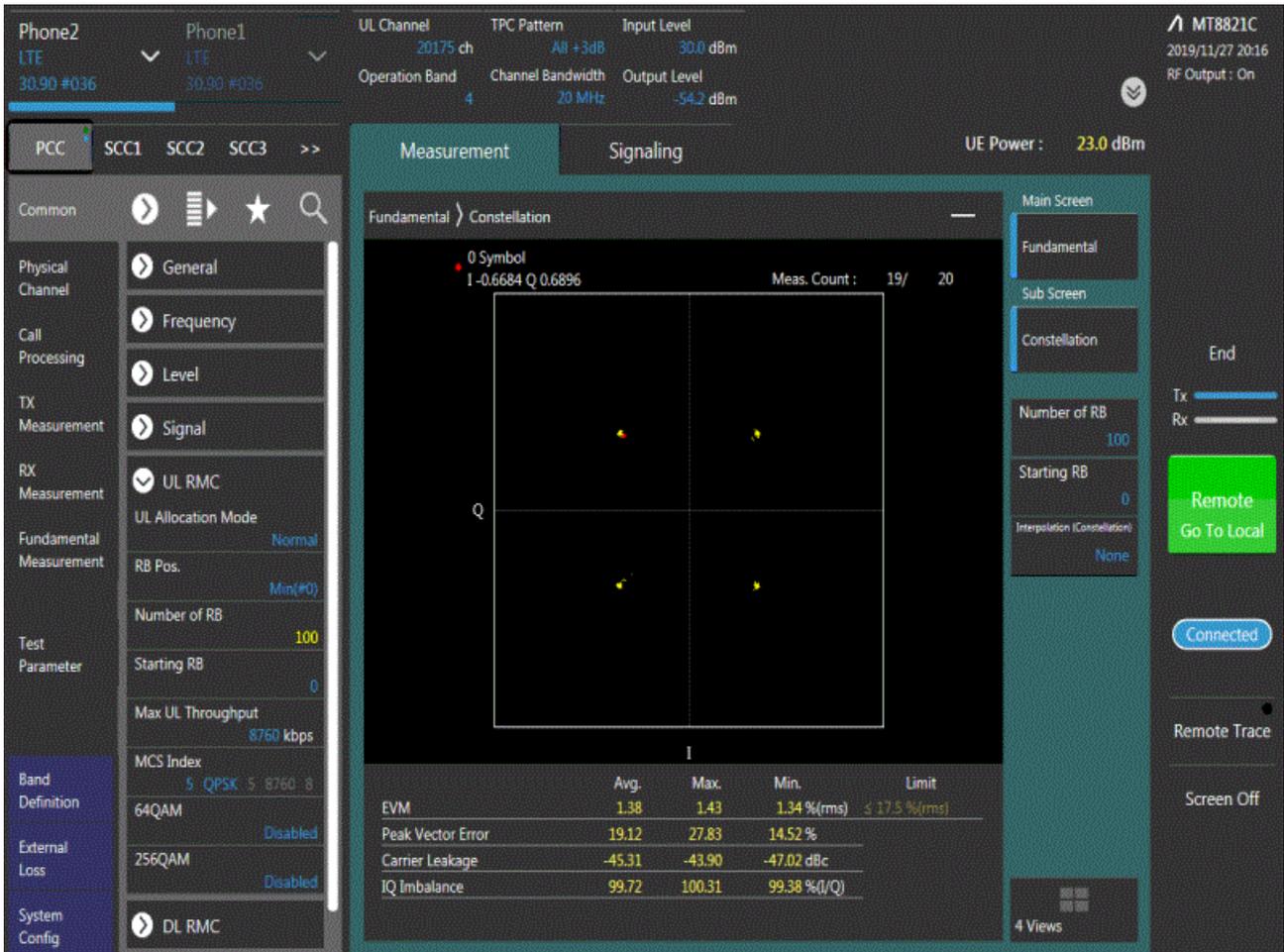
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH

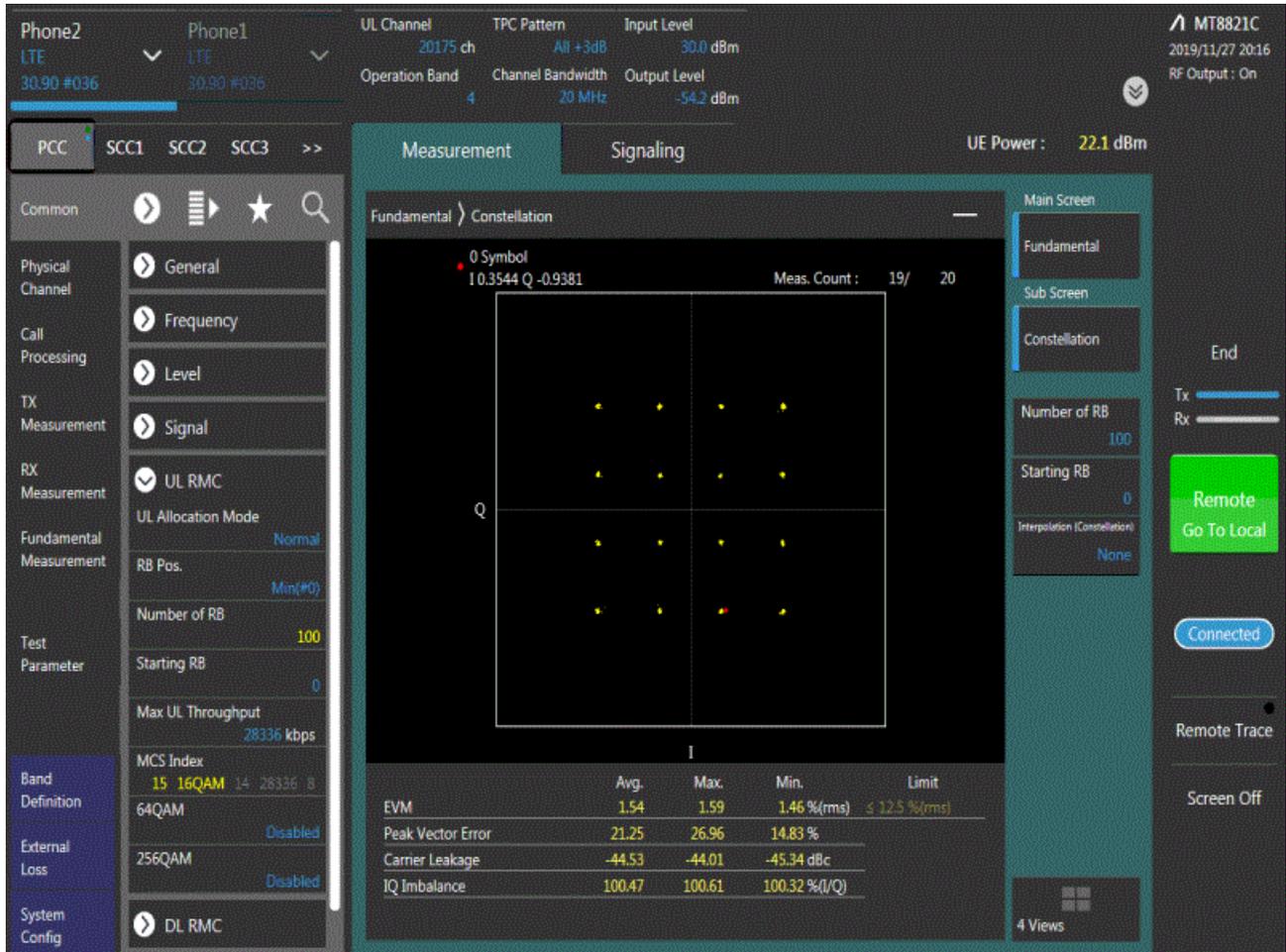


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH

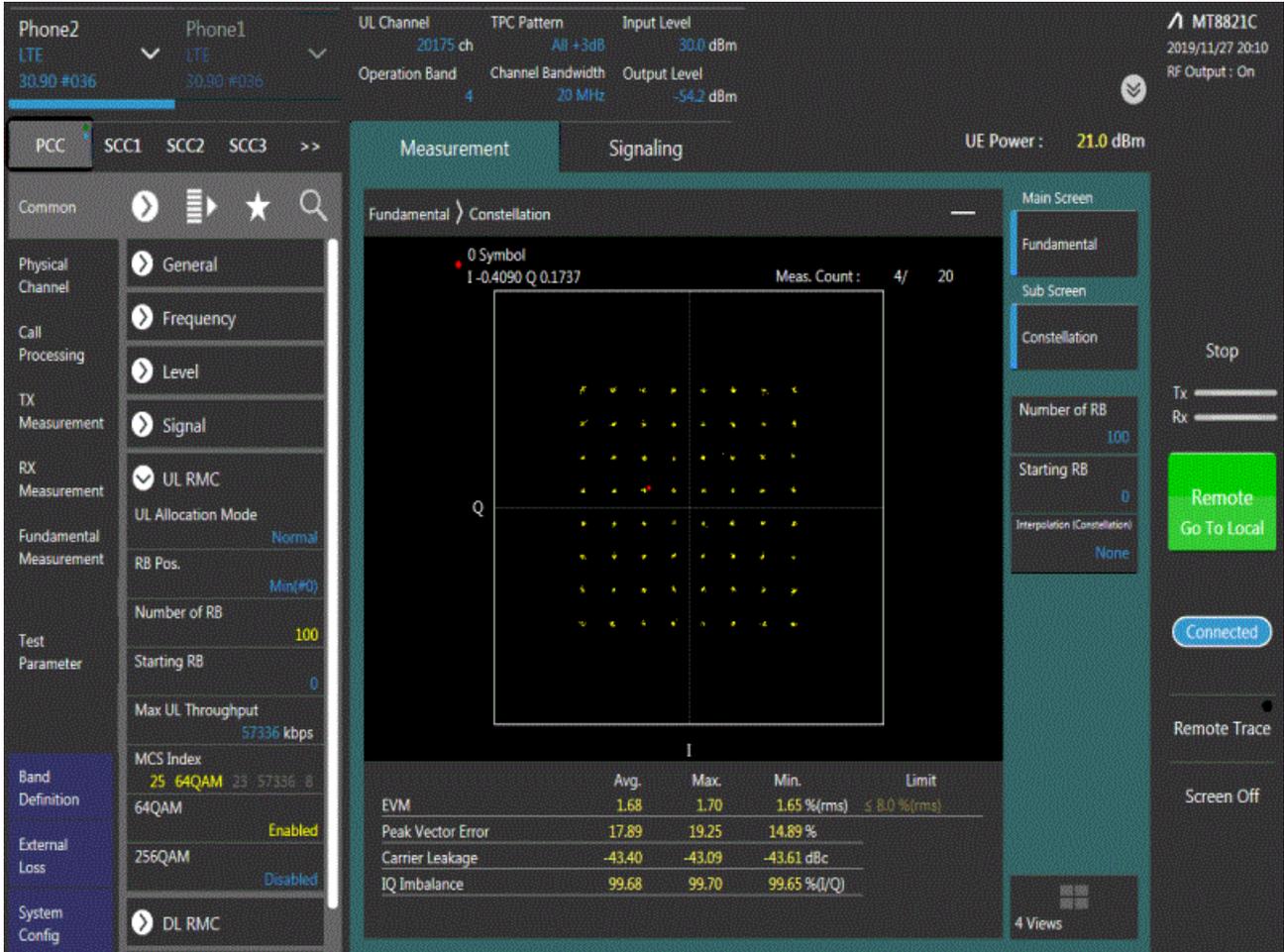


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH



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



4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.097	1.287	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.109	1.278	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.097	1.281	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.097	1.290	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.091	1.263	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.094	1.278	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.094	1.287	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.1	1.299	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.094	1.290	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.685	2.916	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.685	2.904	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.679	2.916	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.685	2.910	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.679	2.910	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.685	2.910	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.685	2.922	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.685	2.910	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.679	2.928	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.466	4.840	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.860	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.860	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.476	4.820	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.466	4.820	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.456	4.830	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.466	4.870	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.476	4.870	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.466	4.780	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.951	9.640	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.640	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.540	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.911	9.560	PASS



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

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

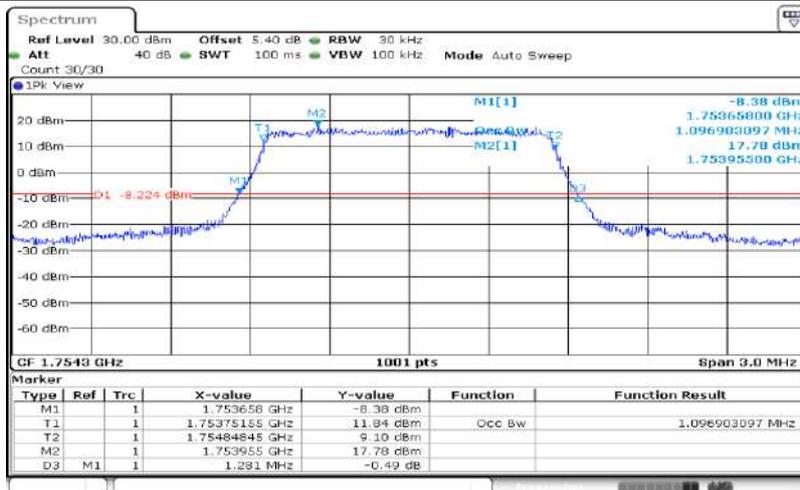


Band4-1.4MHz-QPSK-20175-6RB#0-1.109



Date: 10 NOV 2019 21:38:56

Band4-1.4MHz-QPSK-20393-6RB#0-1.097

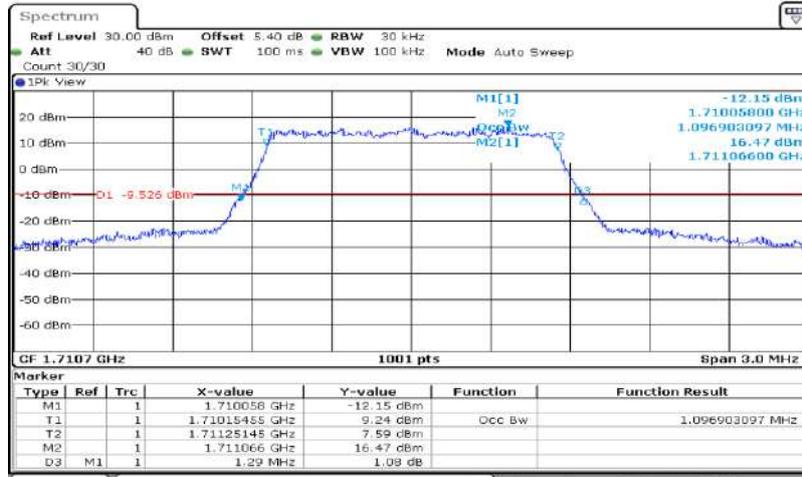


Date: 10 NOV 2019 21:40:28

Band4-1.4MHz-64QAM-19957-6RB#0-1.097

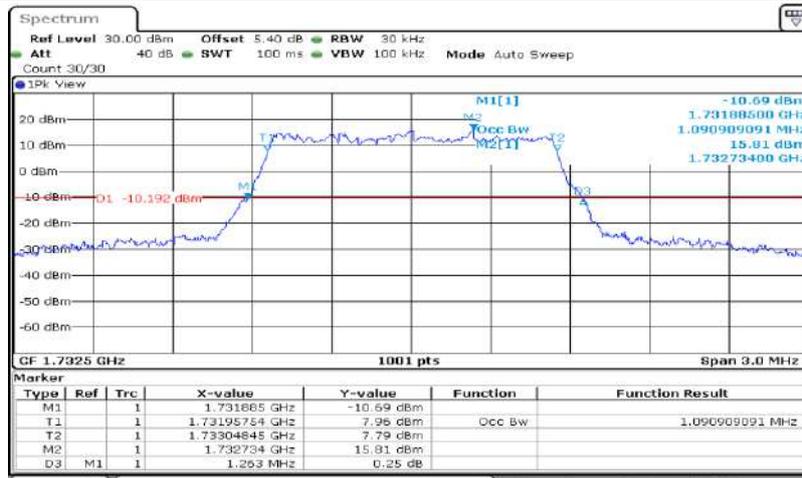


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 26 NOV 2019 16:51:22

Band4-1.4MHz-64QAM-20175-6RB#0-1.091

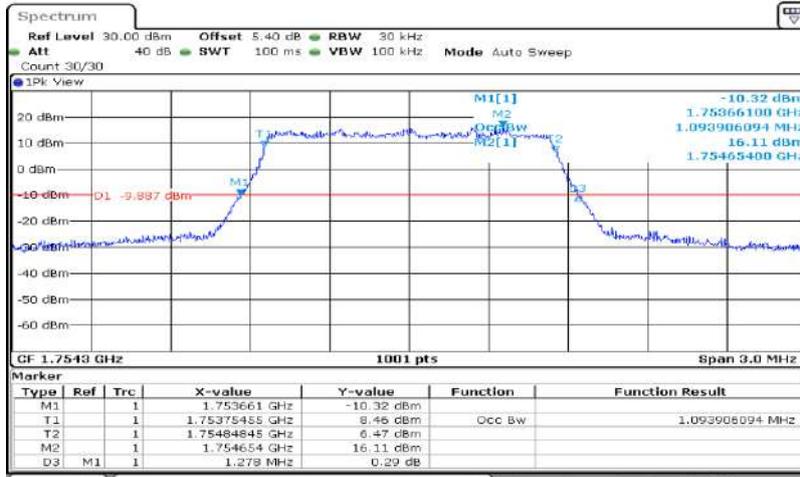


Date: 26 NOV 2019 16:51:35

Band4-1.4MHz-64QAM-20393-6RB#0-1.094

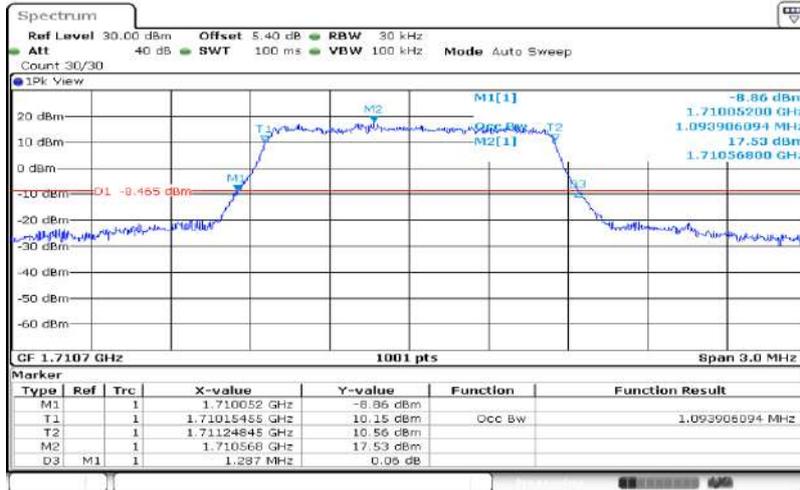


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 28.NOV.2019 18:51:48

Band4-1.4MHz-16QAM-19957-6RB#0-1.094

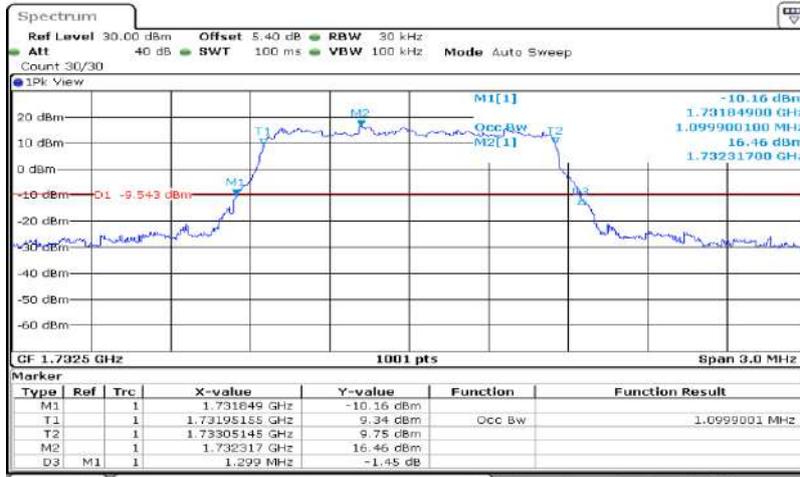


Date: 10.NOV.2019 21:37:36

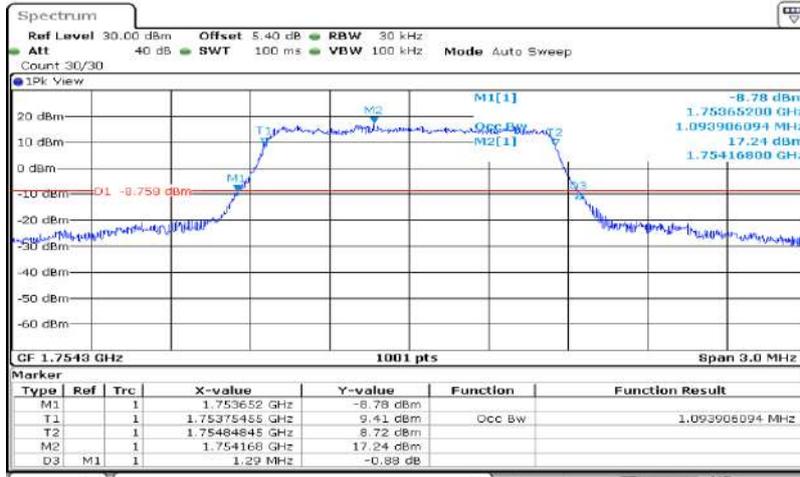
Band4-1.4MHz-16QAM-20175-6RB#0-1.1



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



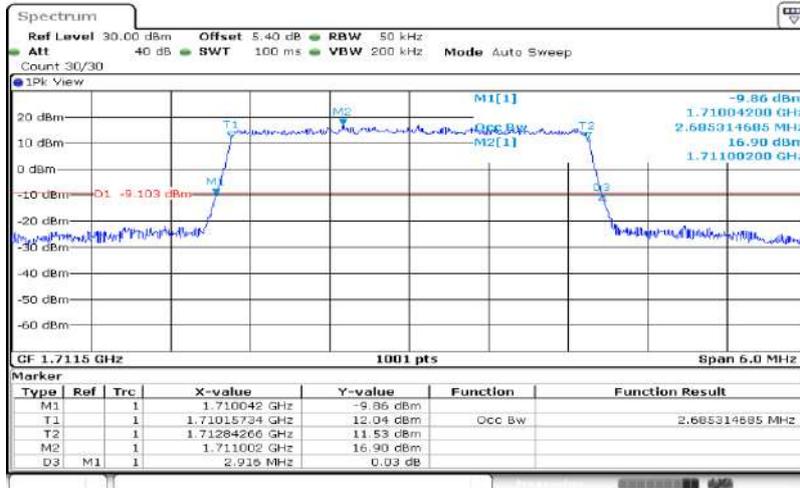
Band4-1.4MHz-16QAM-20393-6RB#0-1.094



Band4-3MHz-QPSK-19965-15RB#0-2.685

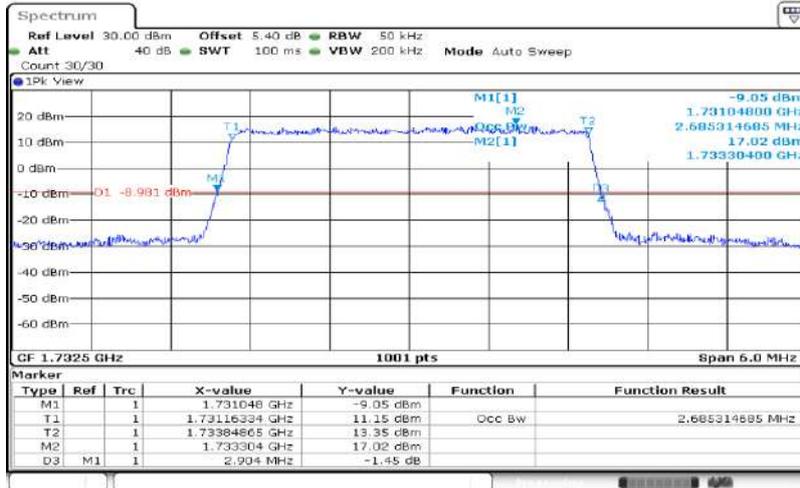


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:42:09

Band4-3MHz-QPSK-20175-15RB#0-2.685

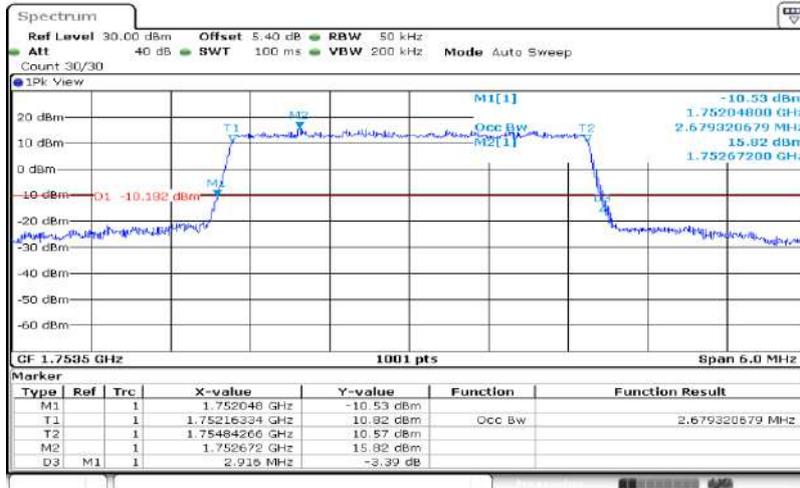


Date: 10.NOV.2019 21:42:32

Band4-3MHz-QPSK-20385-15RB#0-2.679

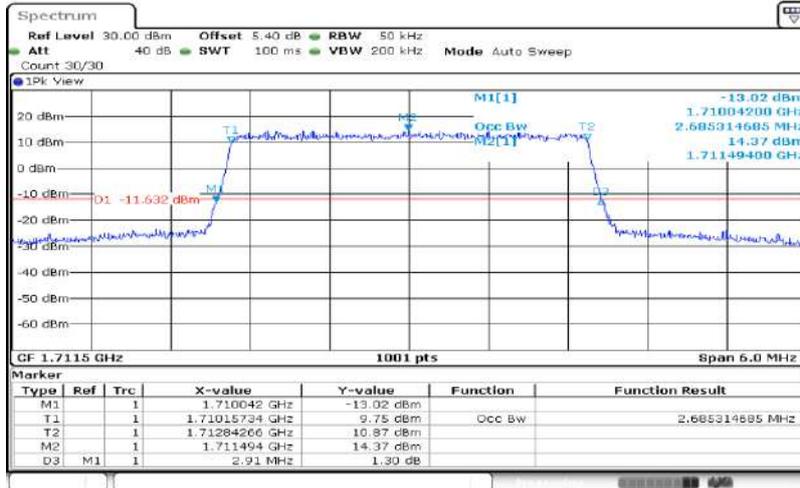


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10 NOV 2019 21:42:54

Band4-3MHz-64QAM-19965-15RB#0-2.685



Date: 28 NOV 2019 18:52:05

Band4-3MHz-64QAM-20175-15RB#0-2.679

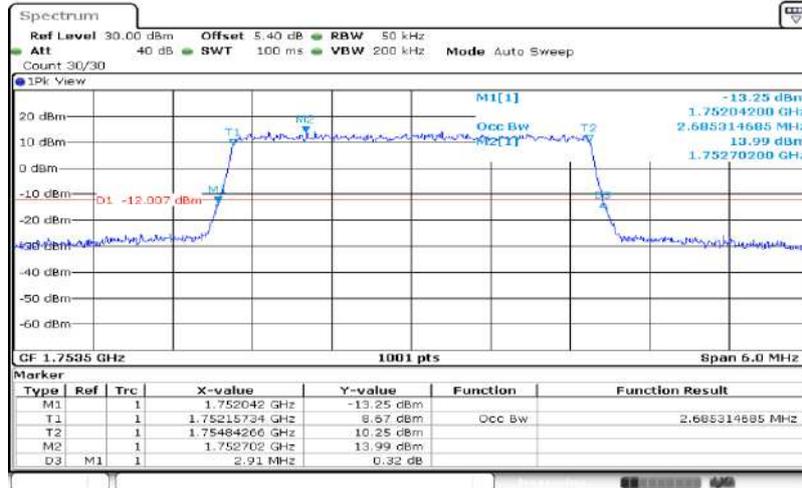


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 26 NOV 2019 16:52:18

Band4-3MHz-64QAM-20385-15RB#0-2.685

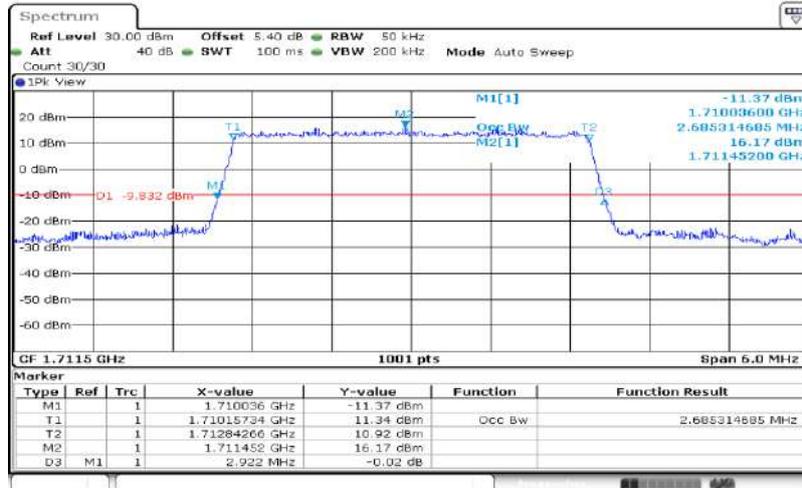


Date: 26 NOV 2019 16:52:31

Band4-3MHz-16QAM-19965-15RB#0-2.685

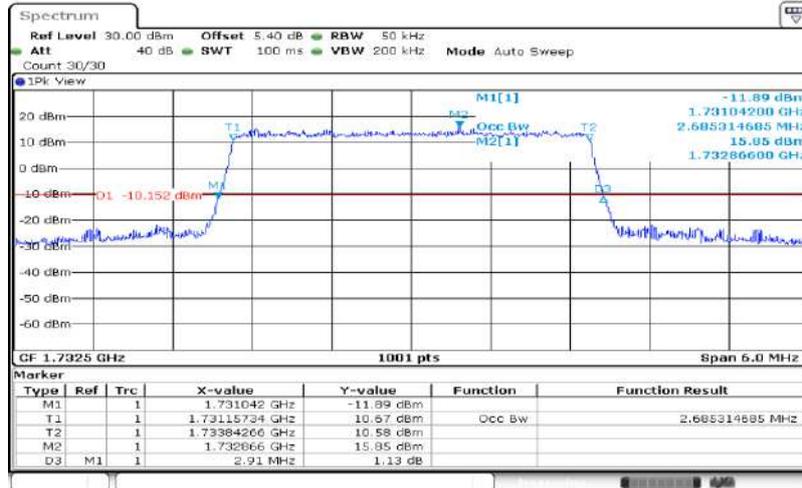


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:42:19

Band4-3MHz-16QAM-20175-15RB#0-2.685

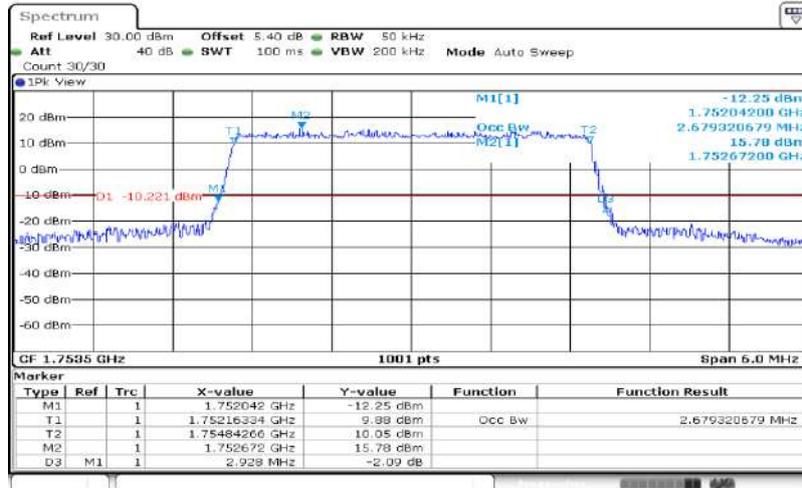


Date: 10.NOV.2019 21:42:41

Band4-3MHz-16QAM-20385-15RB#0-2.679

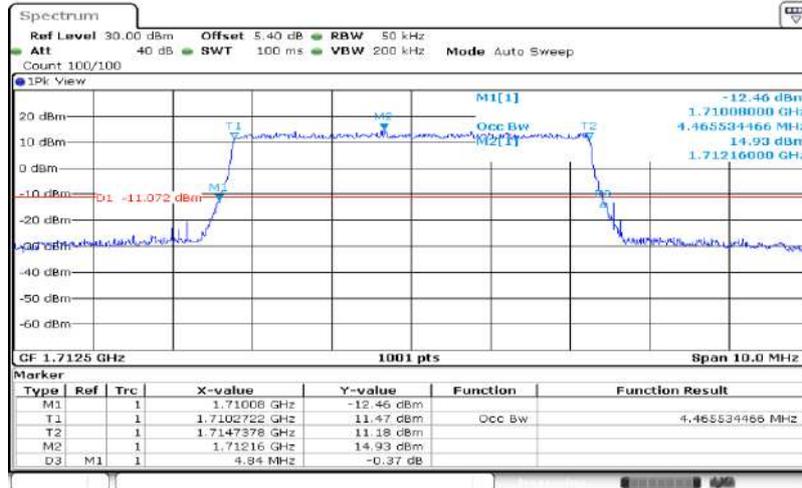


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:43:03

Band4-5MHz-QPSK-19975-25RB#0-4.466

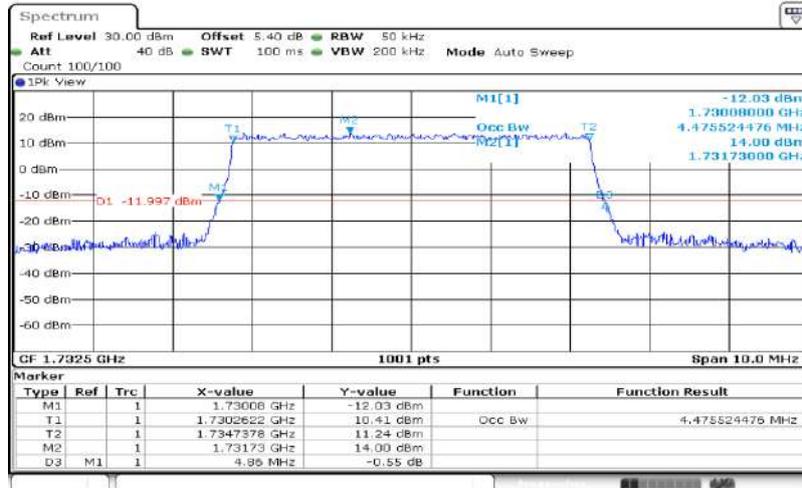


Date: 10.NOV.2019 21:44:15

Band4-5MHz-QPSK-20175-25RB#0-4.476

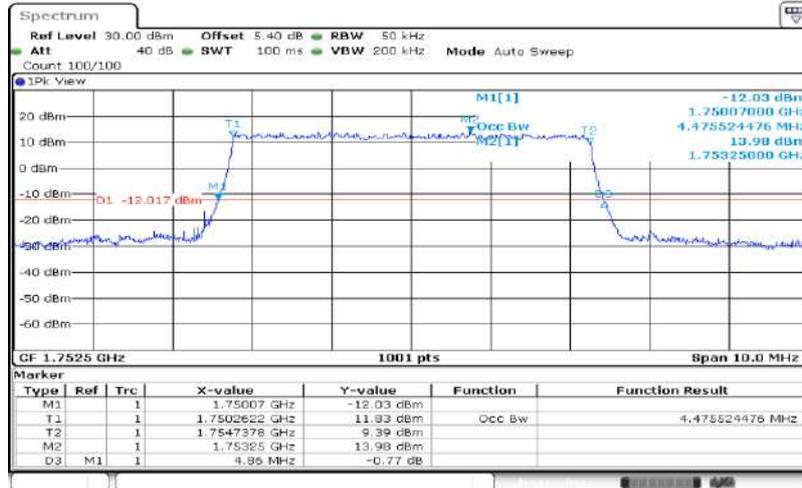


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:44:52

Band4-5MHz-QPSK-20375-25RB#0-4.476

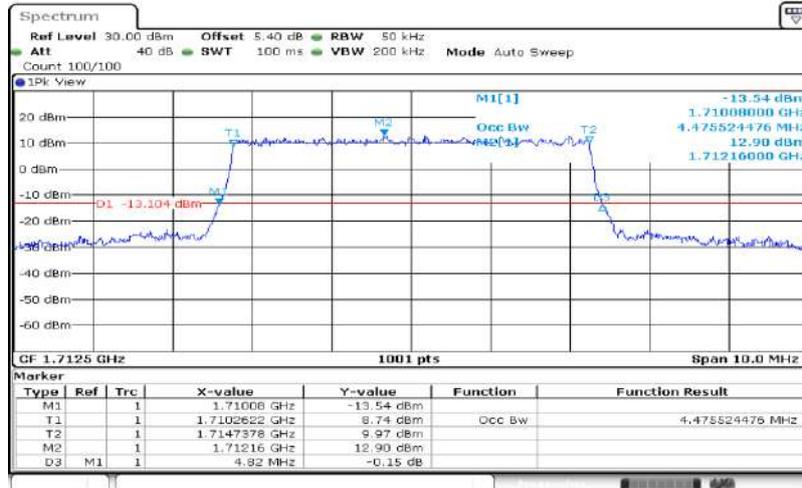


Date: 10.NOV.2019 21:45:26

Band4-5MHz-64QAM-19975-25RB#0-4.476

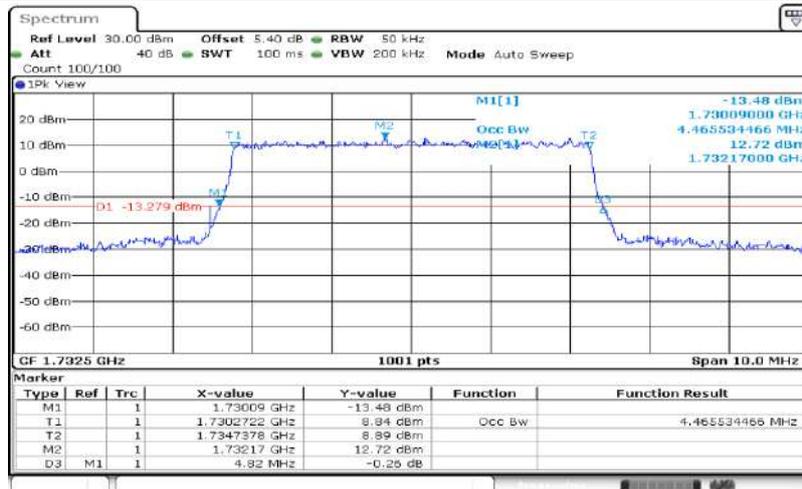


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 26 NOV 2019 18:52:50

Band4-5MHz-64QAM-20175-25RB#0-4.466

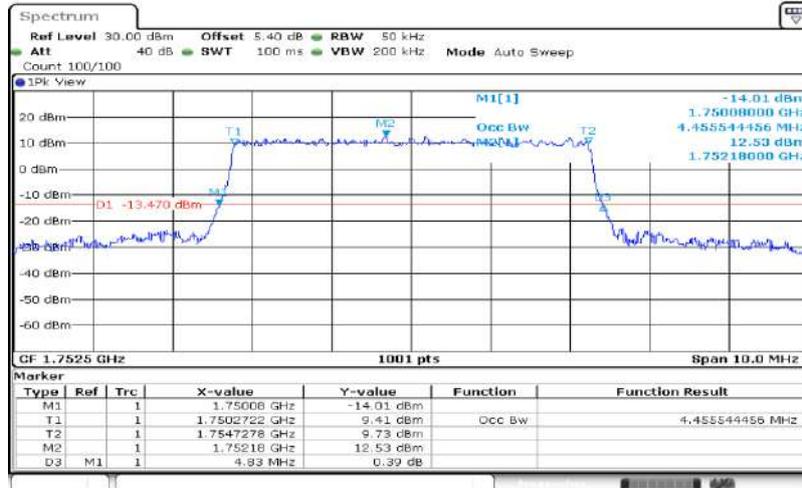


Date: 26 NOV 2019 18:53:16

Band4-5MHz-64QAM-20375-25RB#0-4.456

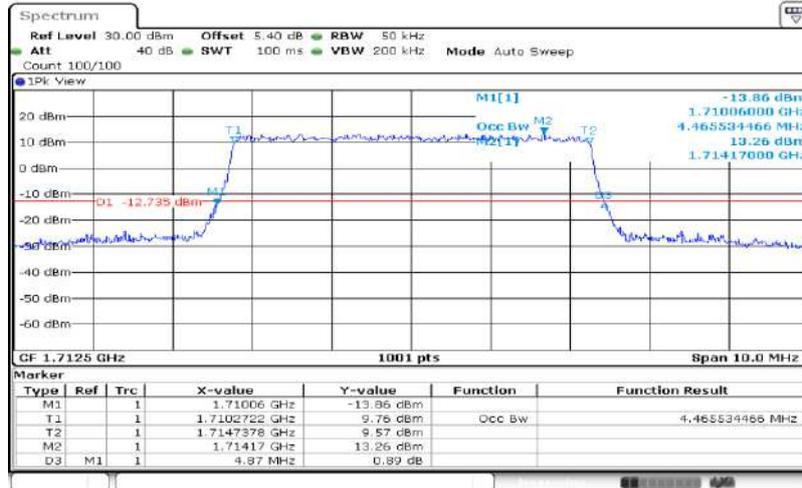


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 26 NOV 2019 18:53:36

Band4-5MHz-16QAM-19975-25RB#0-4.466

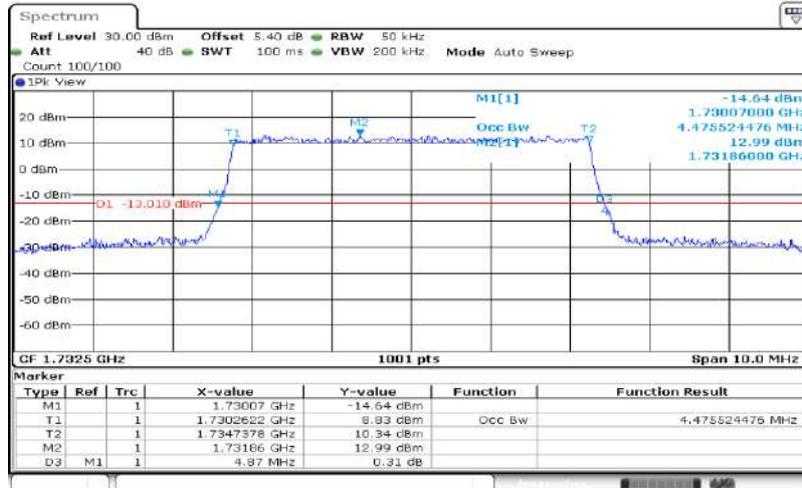


Date: 10 NOV 2019 21:44:32

Band4-5MHz-16QAM-20175-25RB#0-4.476

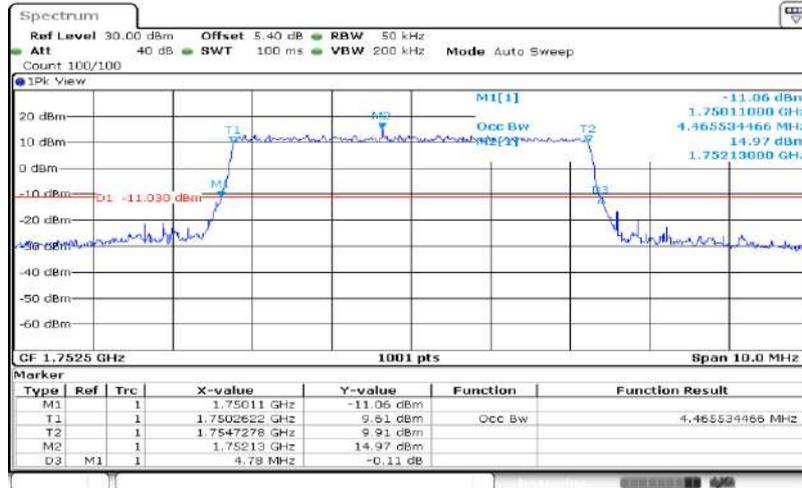


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10 NOV 2019 21:45:09

Band4-5MHz-16QAM-20375-25RB#0-4.466

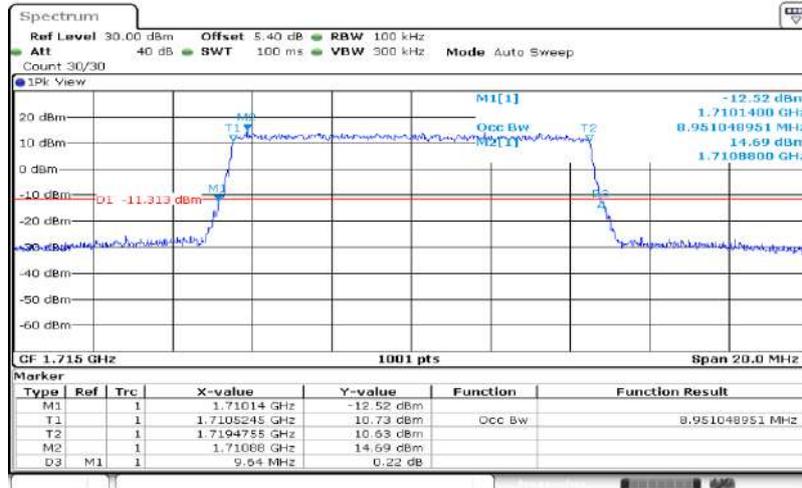


Date: 10 NOV 2019 21:45:45

Band4-10MHz-QPSK-2000-50RB#0-8.951

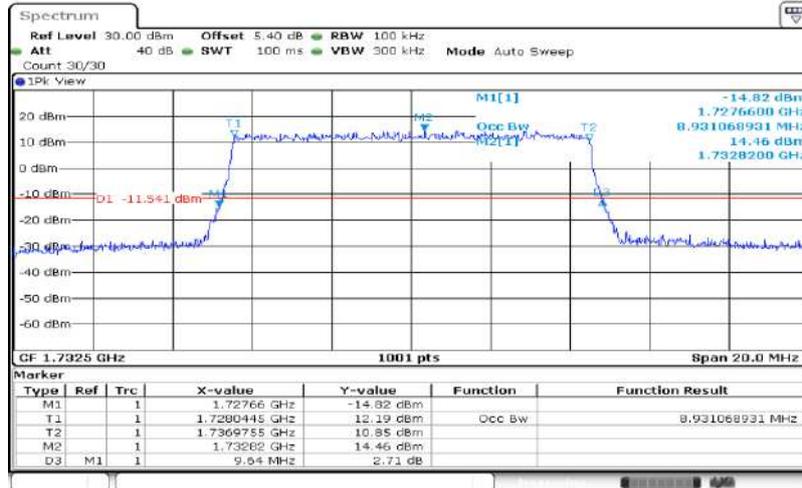


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:46:36

Band4-10MHz-QPSK-20175-50RB#0-8.931

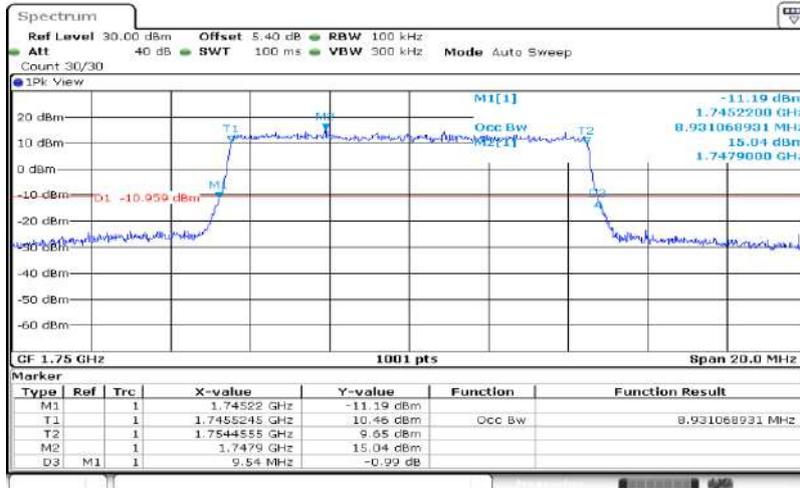


Date: 10.NOV.2019 21:46:58

Band4-10MHz-QPSK-20350-50RB#0-8.931

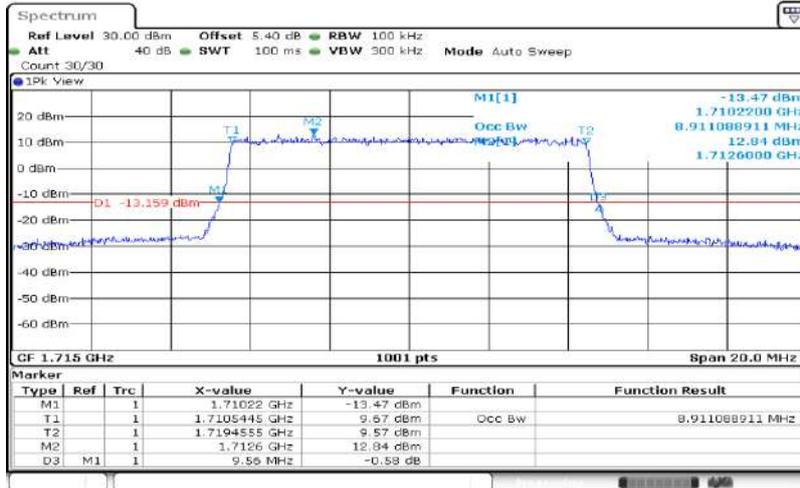


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10 NOV 2019 21:47:21

Band4-10MHz-64QAM-20000-50RB#0-8.911

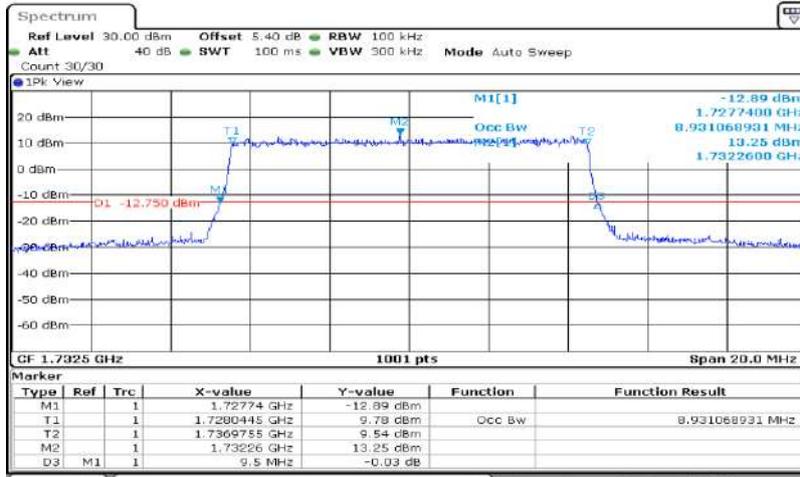


Date: 28 NOV 2019 18:53:53

Band4-10MHz-64QAM-20175-50RB#0-8.931

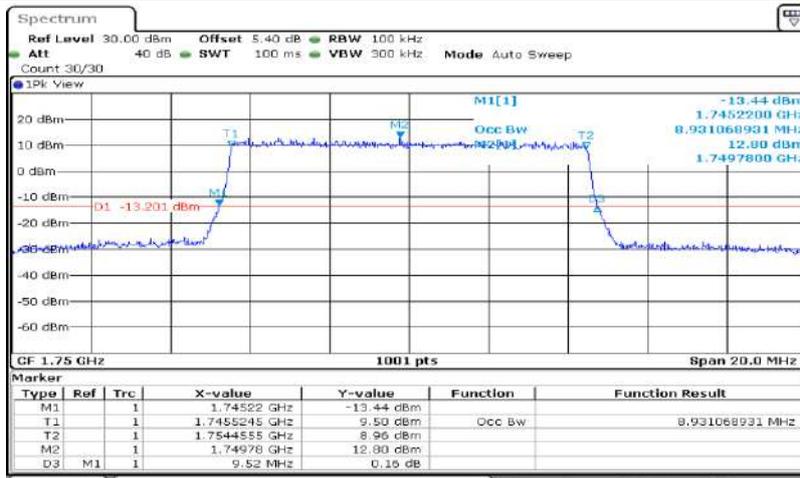


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 26 NOV 2019 18:54:06

Band4-10MHz-64QAM-20350-50RB#0-8.931

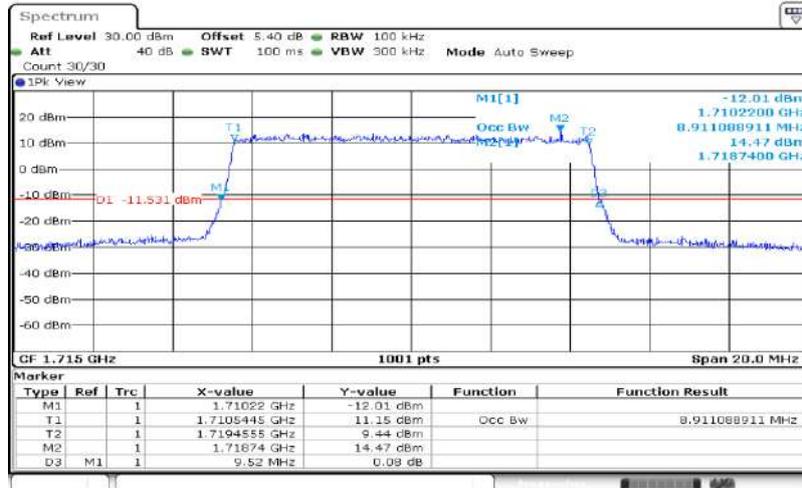


Date: 26 NOV 2019 18:54:19

Band4-10MHz-16QAM-20000-50RB#0-8.911

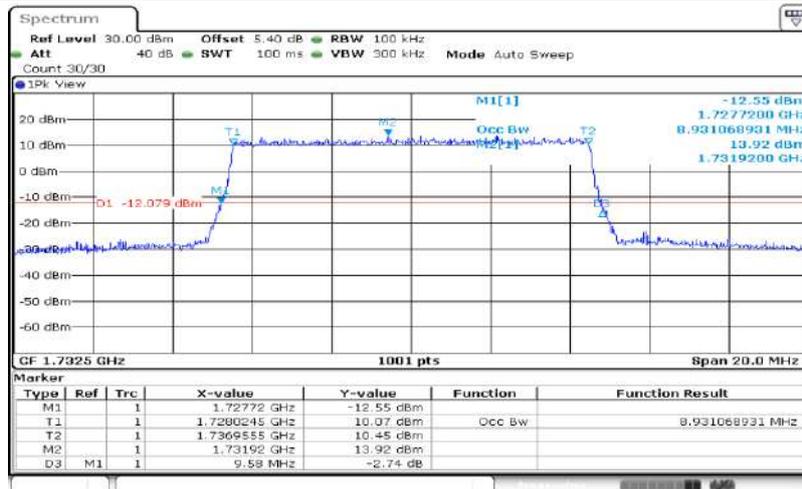


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:46:46

Band4-10MHz-16QAM-20175-50RB#0-8.931

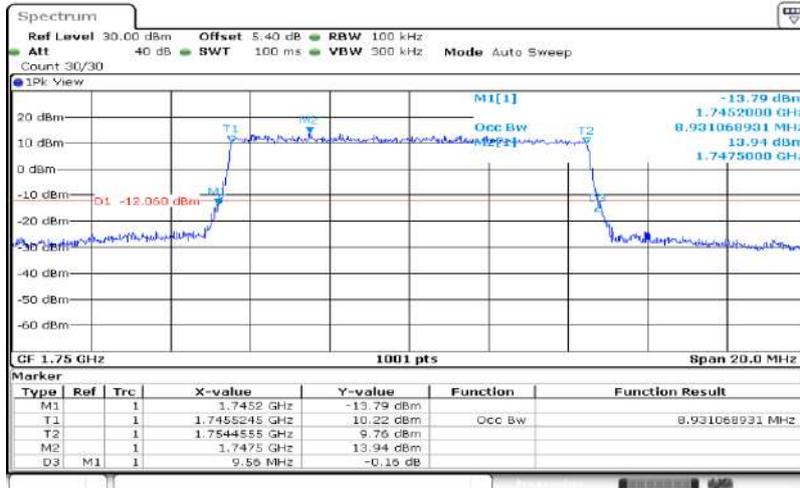


Date: 10.NOV.2019 21:47:06

Band4-10MHz-16QAM-20350-50RB#0-8.931

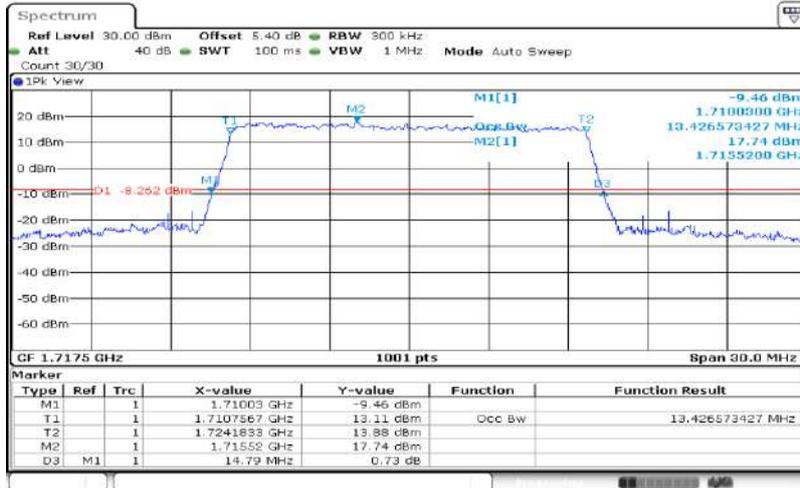


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:47:31

Band4-15MHz-QPSK-20025-75RB#0-13.427

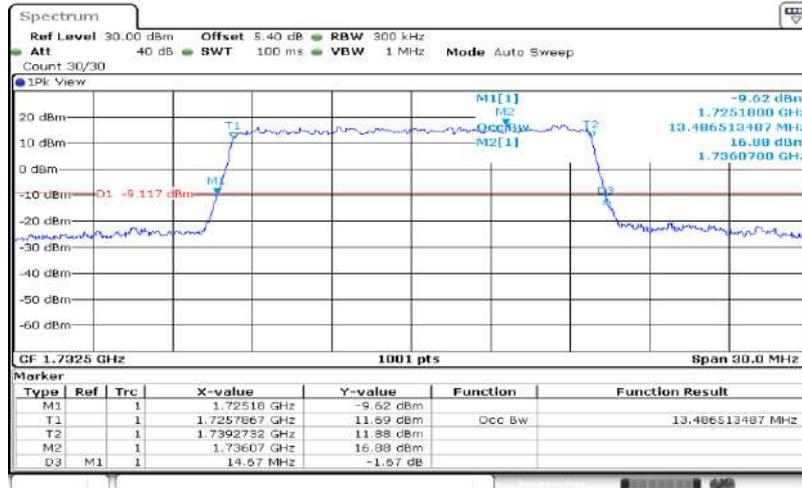


Date: 10.NOV.2019 21:48:24

Band4-15MHz-QPSK-20175-75RB#0-13.487

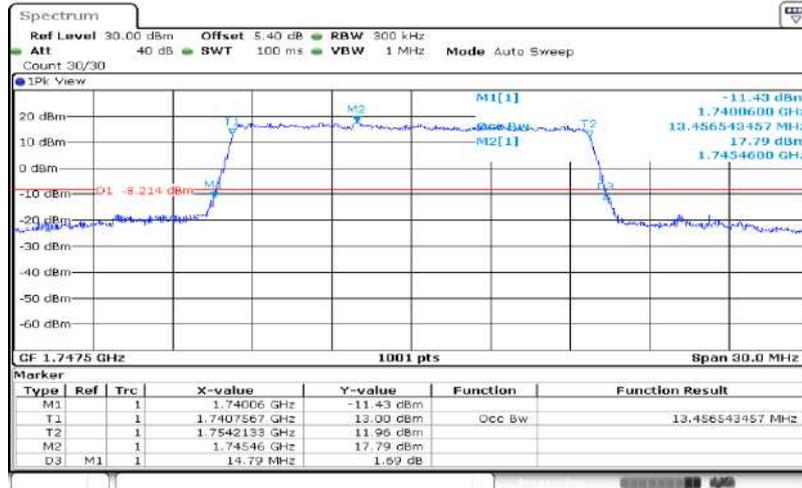


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:48:46

Band4-15MHz-QPSK-20325-75RB#0-13.457

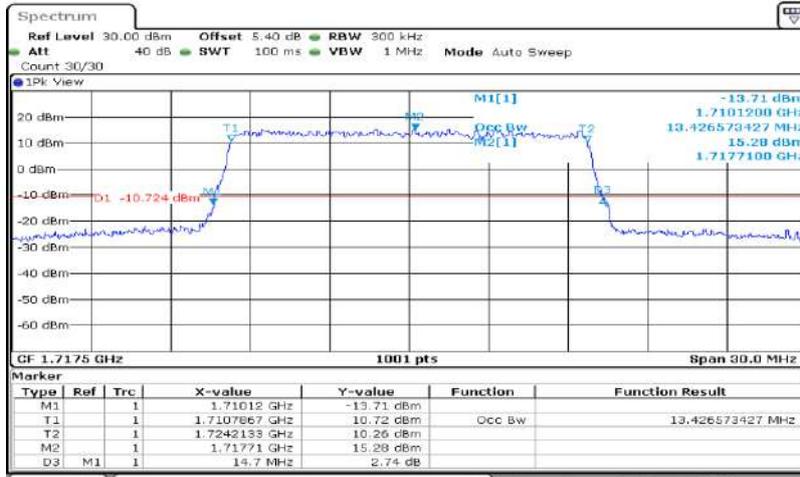


Date: 10.NOV.2019 21:49:06

Band4-15MHz-64QAM-20025-75RB#0-13.427

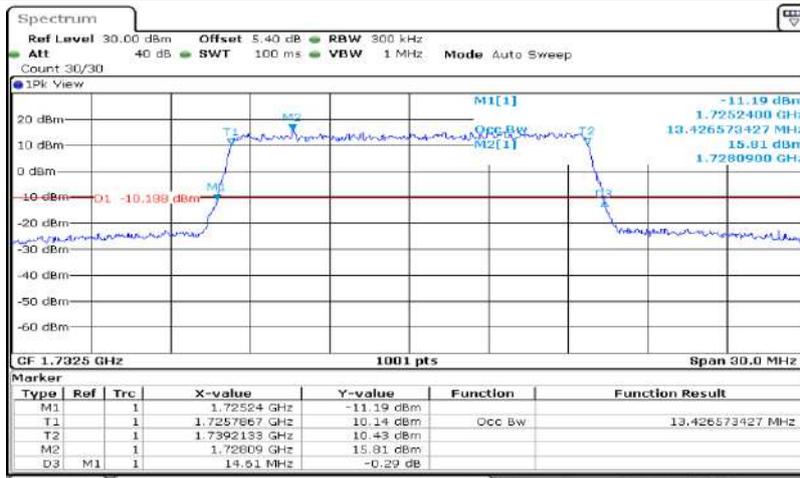


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 28 NOV 2019 18:54:37

Band4-15MHz-64QAM-20175-75RB#0-13.427

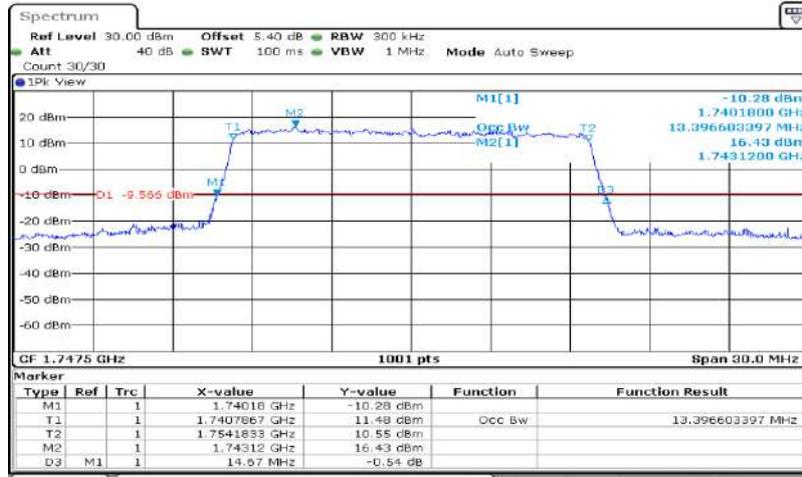


Date: 28 NOV 2019 18:54:49

Band4-15MHz-64QAM-20325-75RB#0-13.397

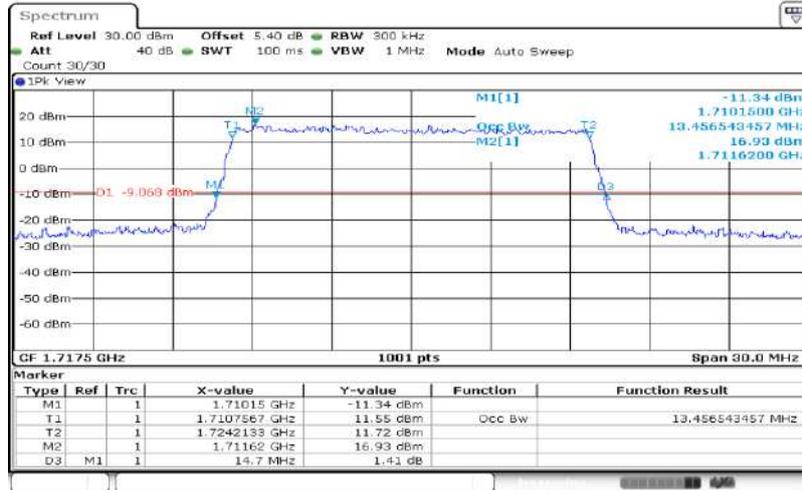


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 28.NOV.2019 18:55:02

Band4-15MHz-16QAM-20025-75RB#0-13.457

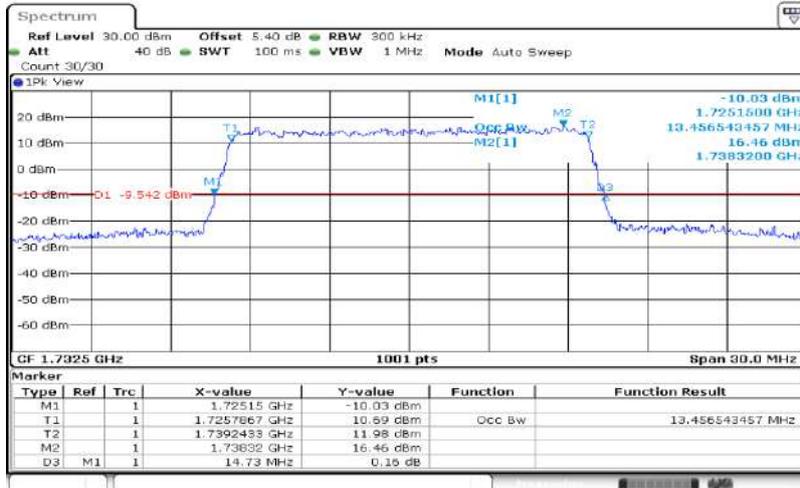


Date: 10.NOV.2019 21:48:33

Band4-15MHz-16QAM-20175-75RB#0-13.457

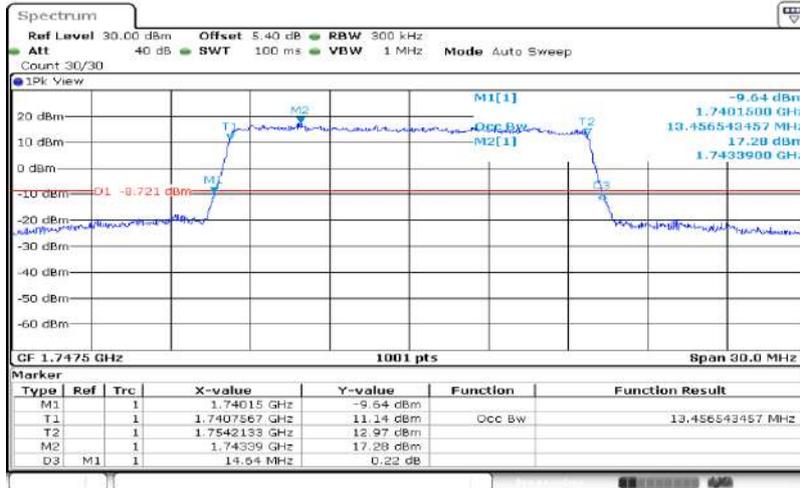


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:48:58

Band4-15MHz-16QAM-20325-75RB#0-13.457

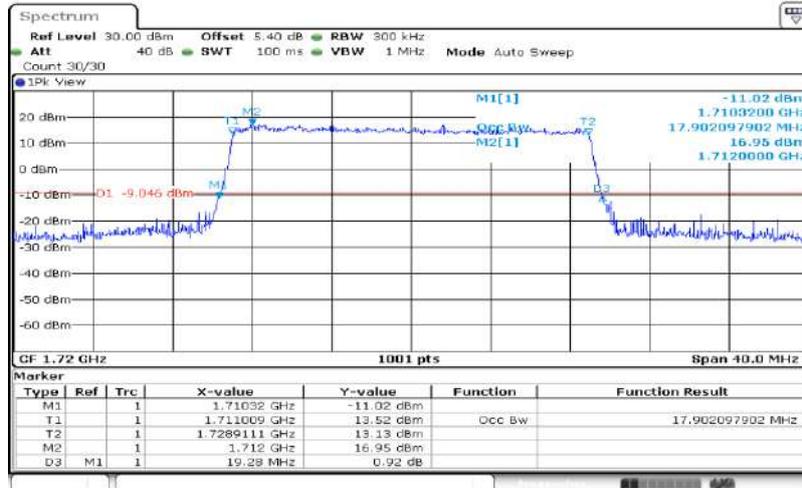


Date: 10.NOV.2019 21:49:18

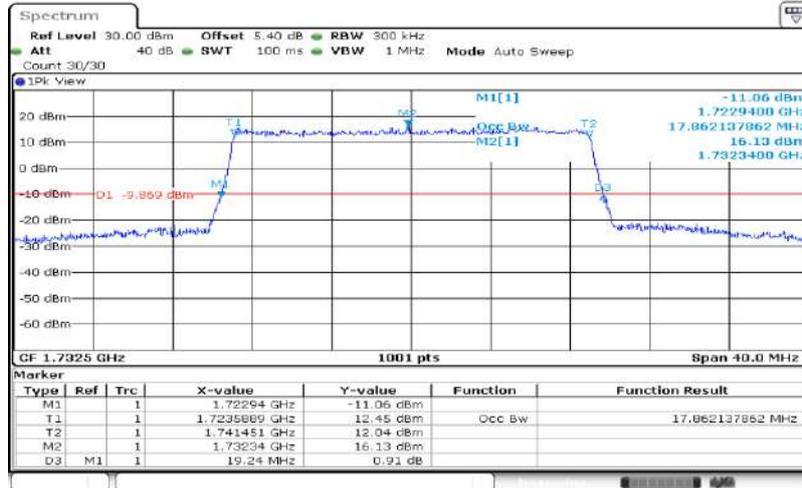
Band4-20MHz-QPSK-20050-100RB#0-17.902



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



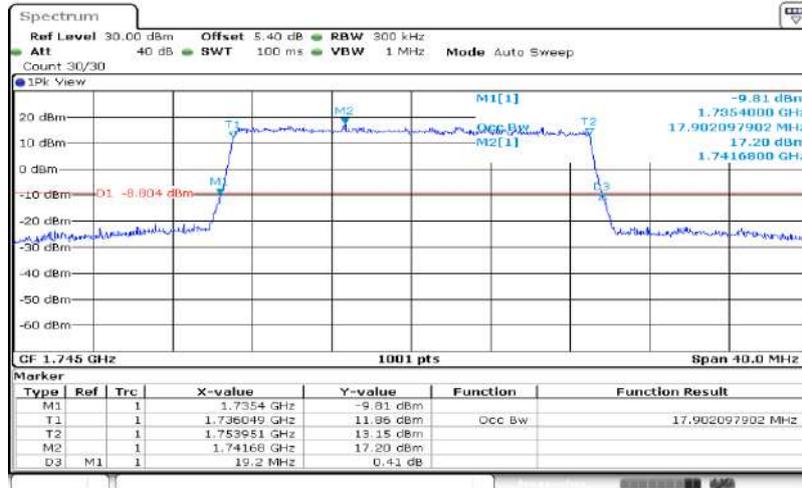
Band4-20MHz-QPSK-20175-100RB#0-17.862



Band4-20MHz-QPSK-20300-100RB#0-17.902

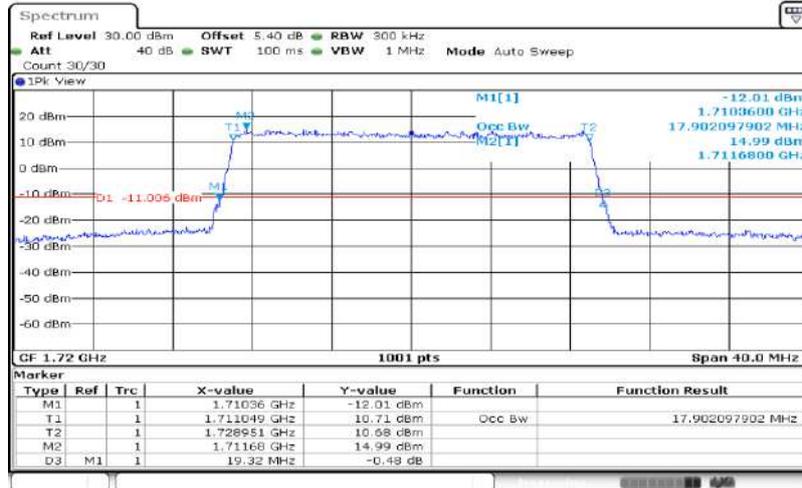


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:50:50

Band4-20MHz-64QAM-20050-100RB#0-17.902

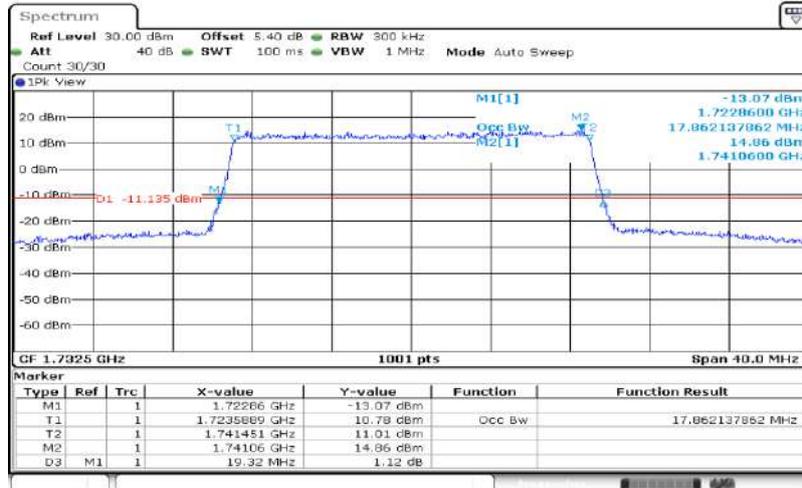


Date: 28.NOV.2019 18:55:20

Band4-20MHz-64QAM-20175-100RB#0-17.862

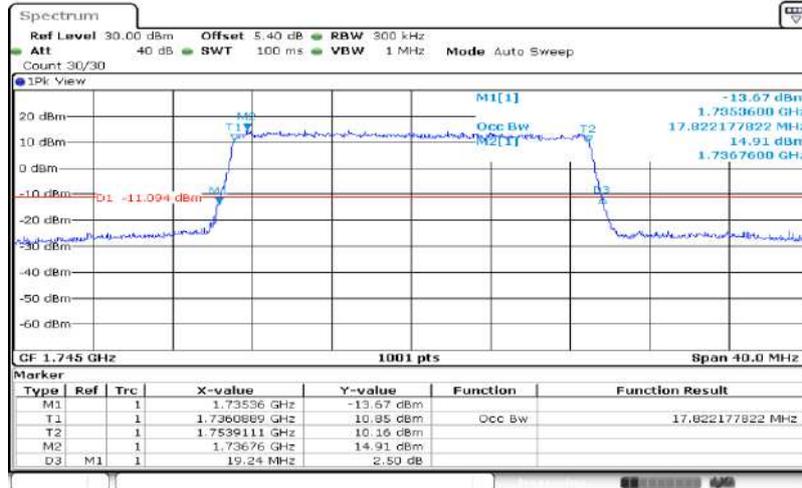


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 26 NOV 2019 18:55:33

Band4-20MHz-64QAM-20300-100RB#0-17.822

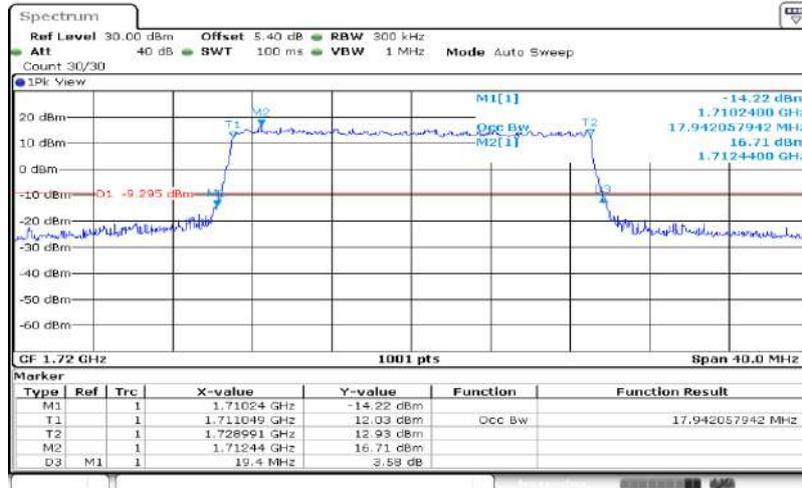


Date: 26 NOV 2019 18:55:46

Band4-20MHz-16QAM-20050-100RB#0-17.942

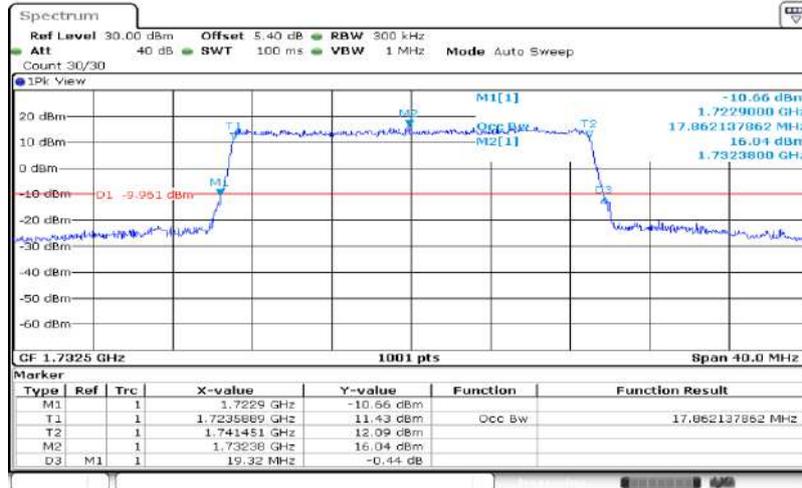


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:50:15

Band4-20MHz-16QAM-20175-100RB#0-17.862

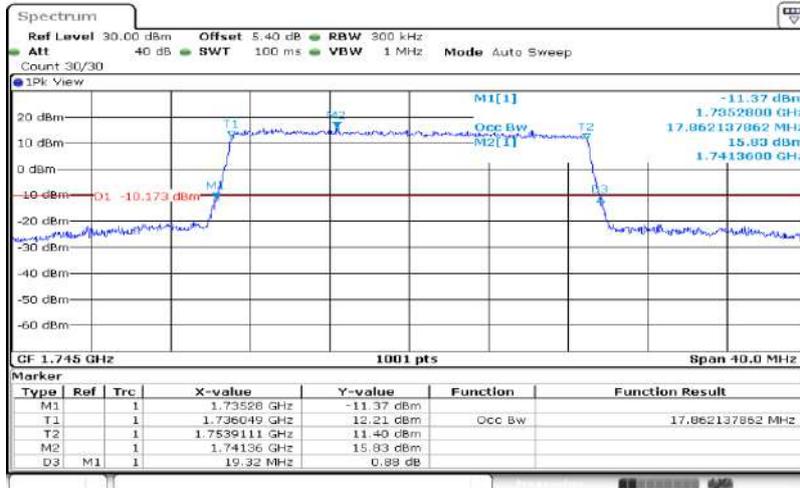


Date: 10.NOV.2019 21:50:38

Band4-20MHz-16QAM-20300-100RB#0-17.862



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



Date: 10.NOV.2019 21:51:00



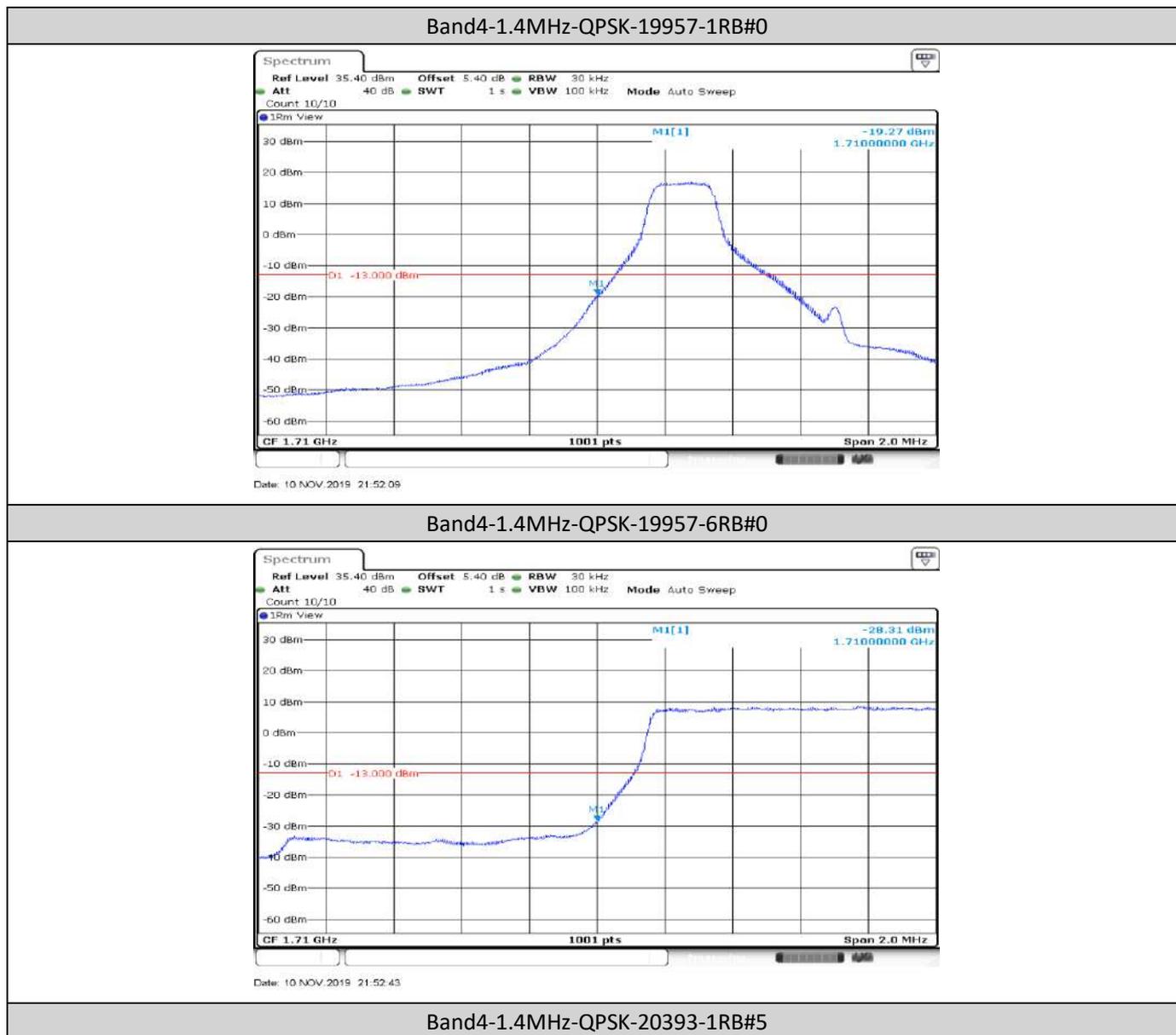
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



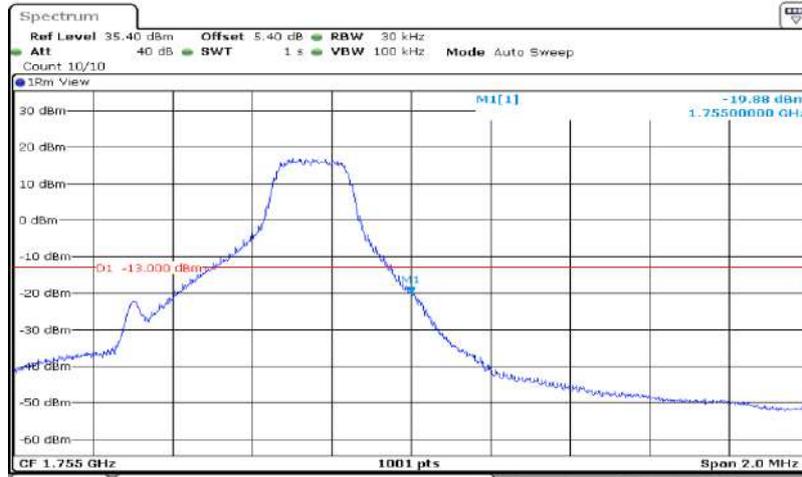
5. Band Edge Compliance

5.1. Test Plots



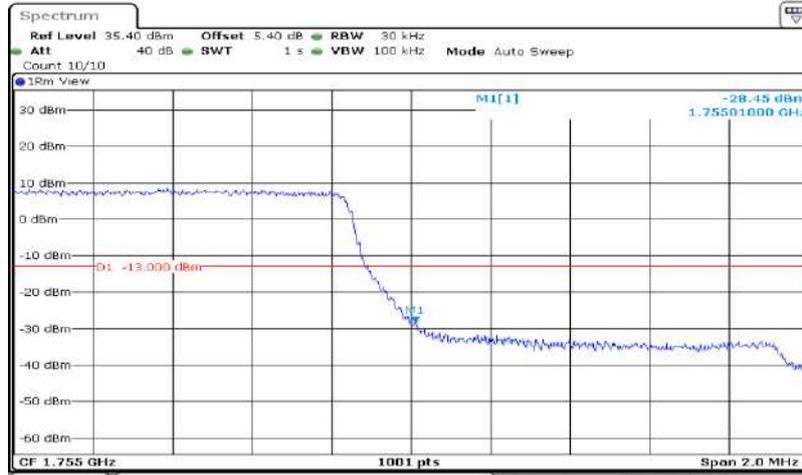
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 10.NOV.2019 21:53:53

Band4-1.4MHz-QPSK-20393-6RB#0

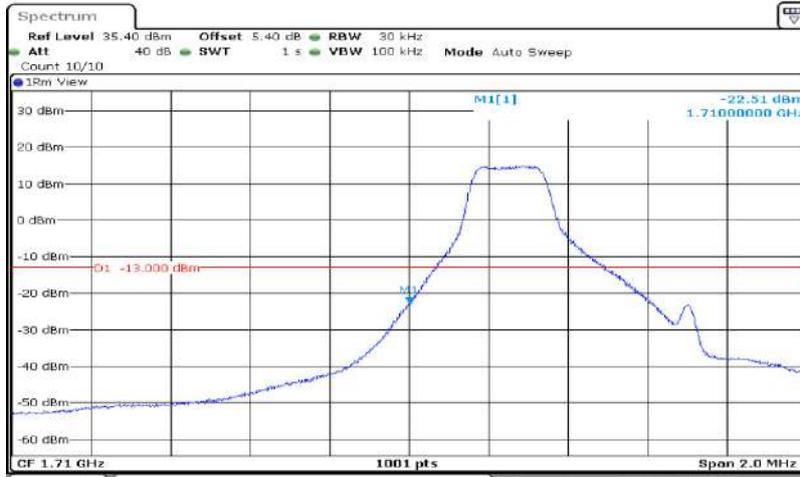


Date: 10.NOV.2019 21:54:26

Band4-1.4MHz-64QAM-19957-1RB#0



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



Date: 26 NOV 2019 16:56:11

Band4-1.4MHz-64QAM-19957-6RB#0

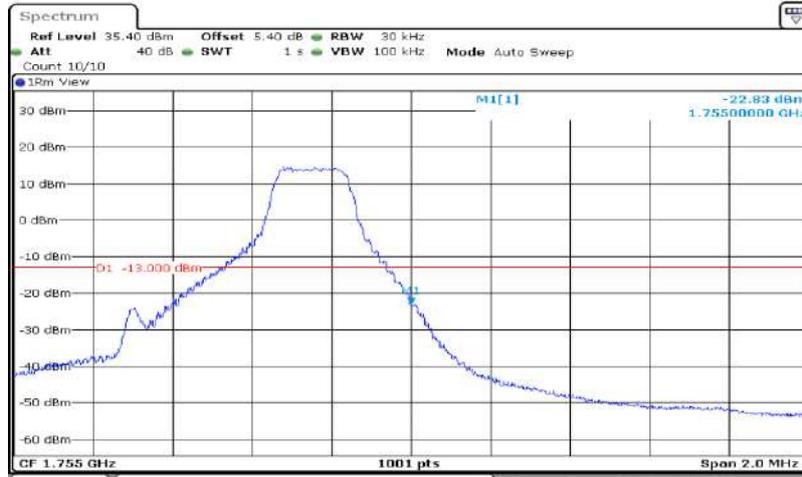


Date: 26 NOV 2019 16:56:30

Band4-1.4MHz-64QAM-20393-1RB#5

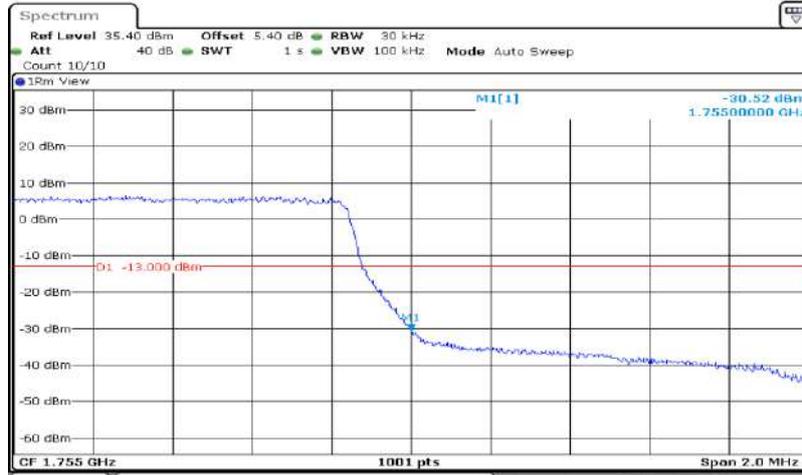


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 26 NOV 2019 16:56:54

Band4-1.4MHz-64QAM-20393-6RB#0



Date: 26 NOV 2019 16:57:14

Band4-1.4MHz-16QAM-19957-1RB#0



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



Date: 10.NOV.2019 21:52:28

Band4-1.4MHz-16QAM-19957-6RB#0

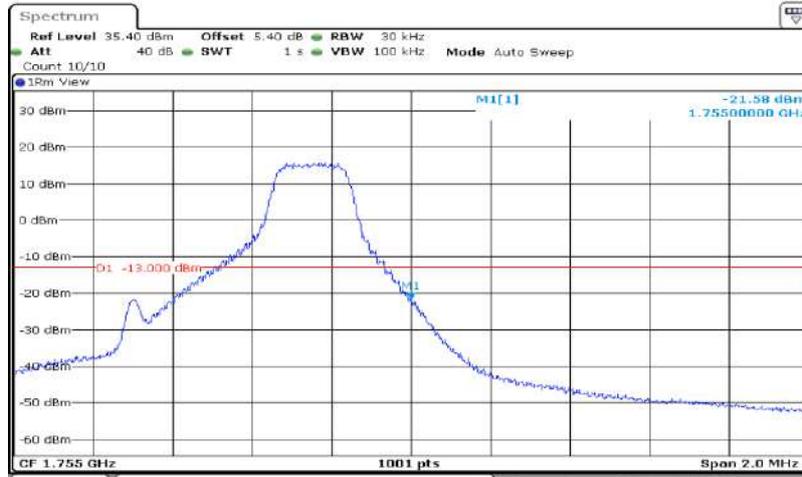


Date: 10.NOV.2019 21:53:00

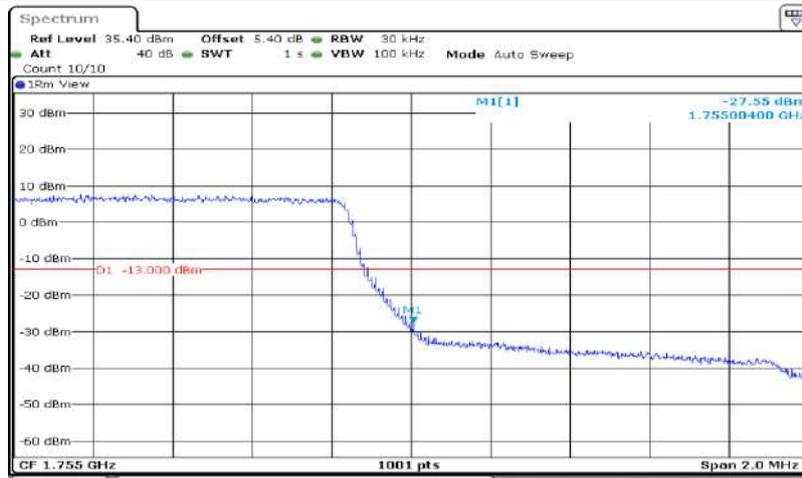
Band4-1.4MHz-16QAM-20393-1RB#5



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



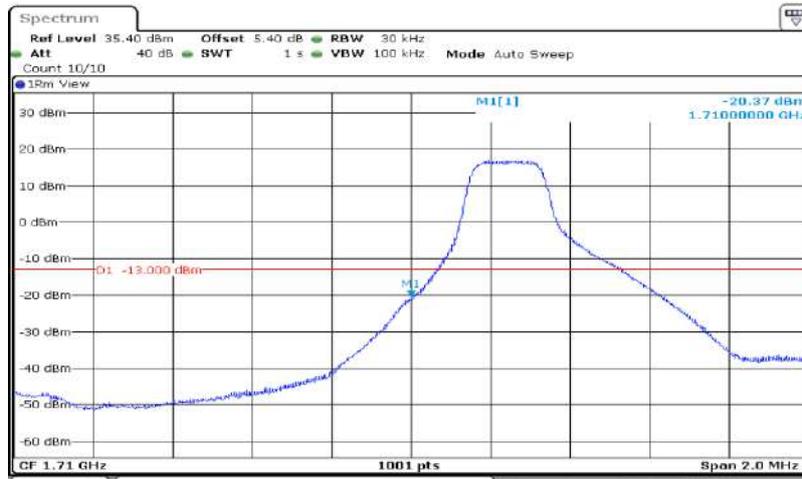
Band4-1.4MHz-16QAM-20393-6RB#0



Band4-3MHz-QPSK-19965-1RB#0



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



Date: 10.NOV.2019 21:55:52

Band4-3MHz-QPSK-19965-15RB#0

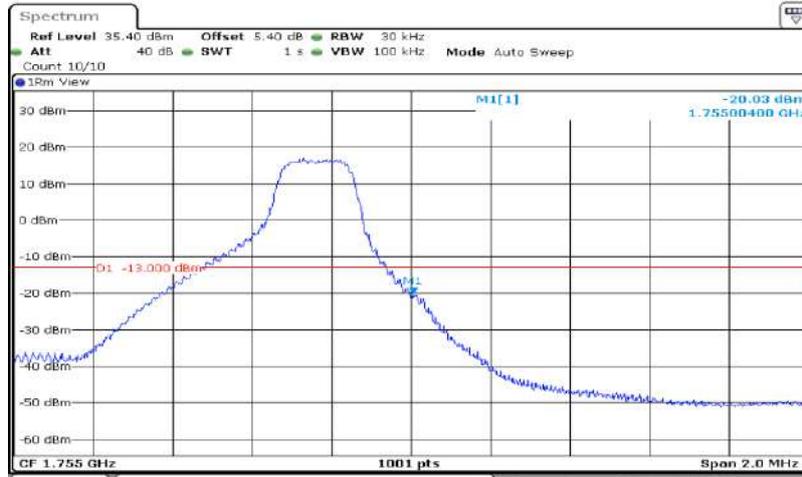


Date: 10.NOV.2019 21:56:25

Band4-3MHz-QPSK-20385-1RB#14

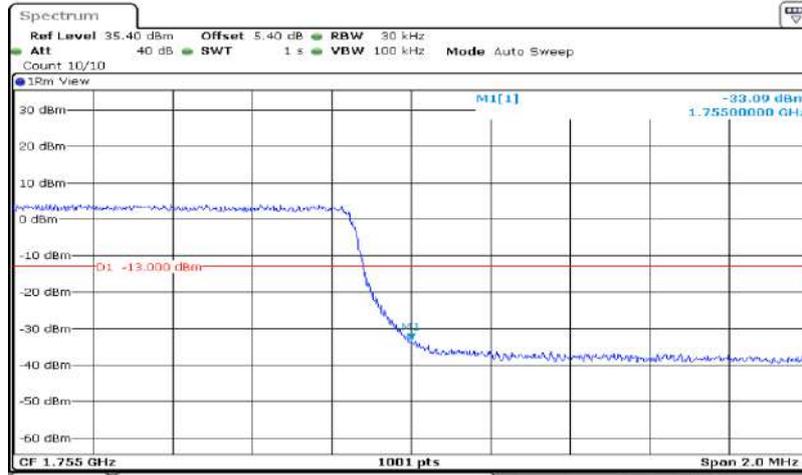


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:57:05

Band4-3MHz-QPSK-20385-15RB#0

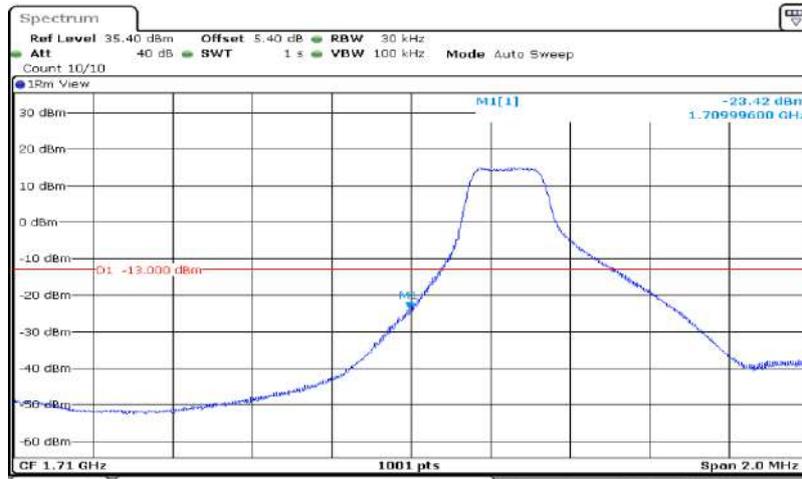


Date: 10.NOV.2019 21:57:39

Band4-3MHz-64QAM-19965-1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 26 NOV 2019 16:57:38

Band4-3MHz-64QAM-19965-15RB#0

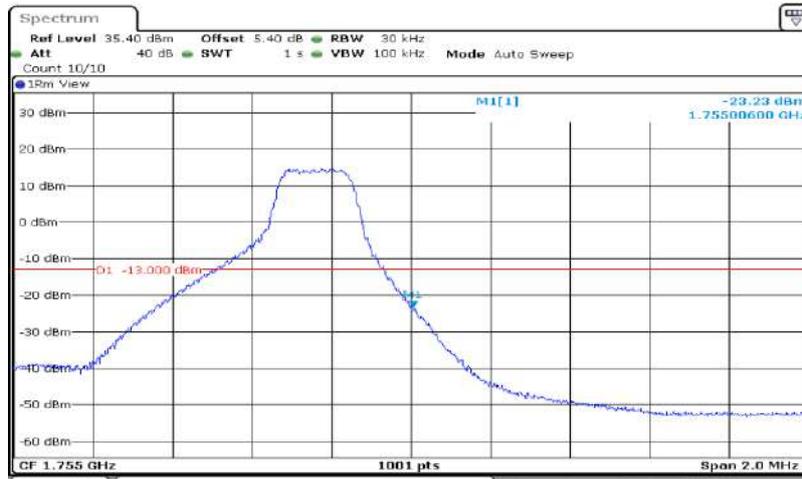


Date: 26 NOV 2019 16:57:58

Band4-3MHz-64QAM-20385-1RB#14

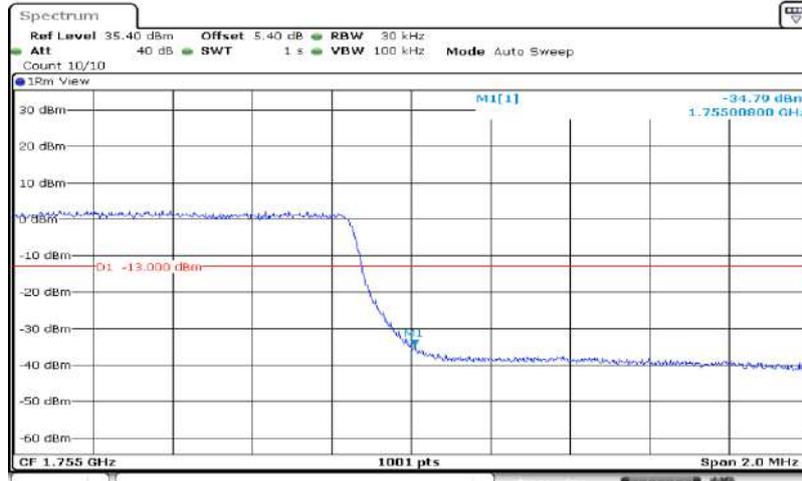


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 26 NOV 2019 16:58:22

Band4-3MHz-64QAM-20385-15RB#0

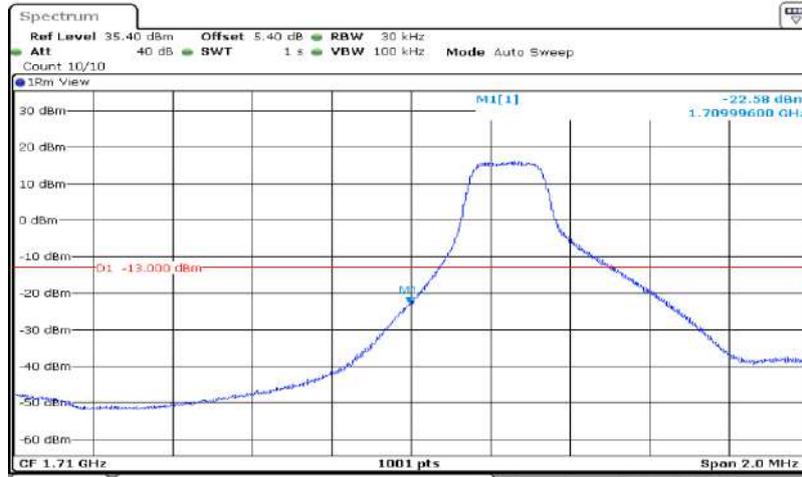


Date: 26 NOV 2019 16:58:41

Band4-3MHz-16QAM-19965-1RB#0



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



Date: 10.NOV.2019 21:56:09

Band4-3MHz-16QAM-19965-15RB#0

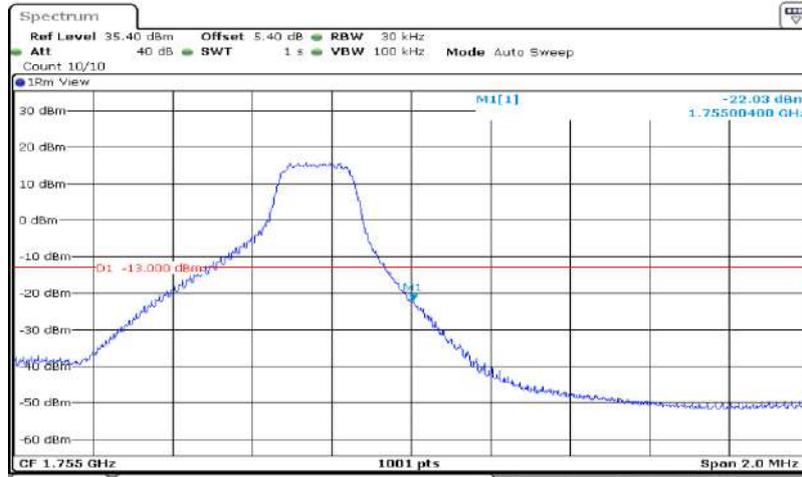


Date: 10.NOV.2019 21:56:42

Band4-3MHz-16QAM-20385-1RB#14

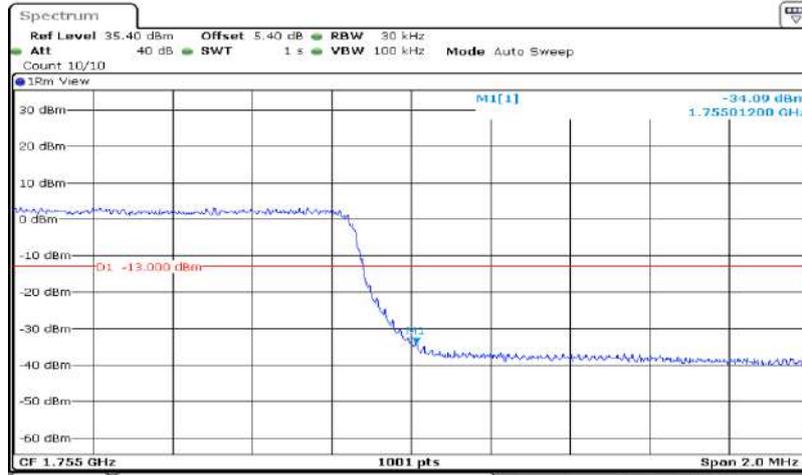


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 21:57:22

Band4-3MHz-16QAM-20385-15RB#0

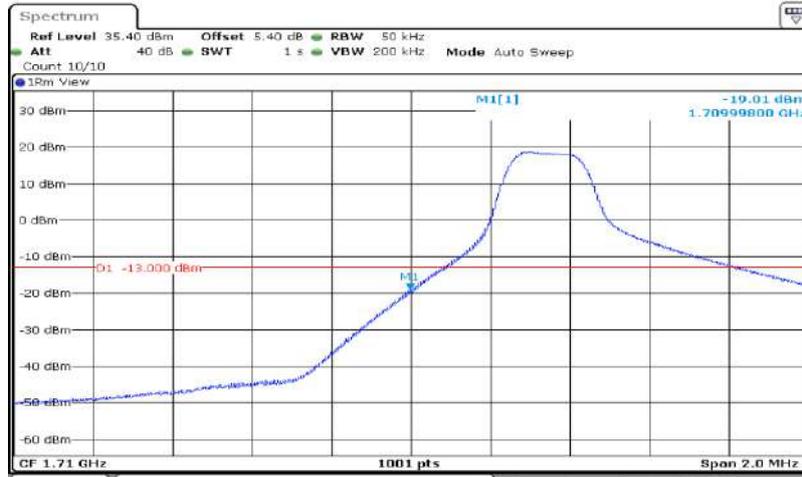


Date: 10.NOV.2019 21:57:56

Band4-5MHz-QPSK-19975-1RB#0

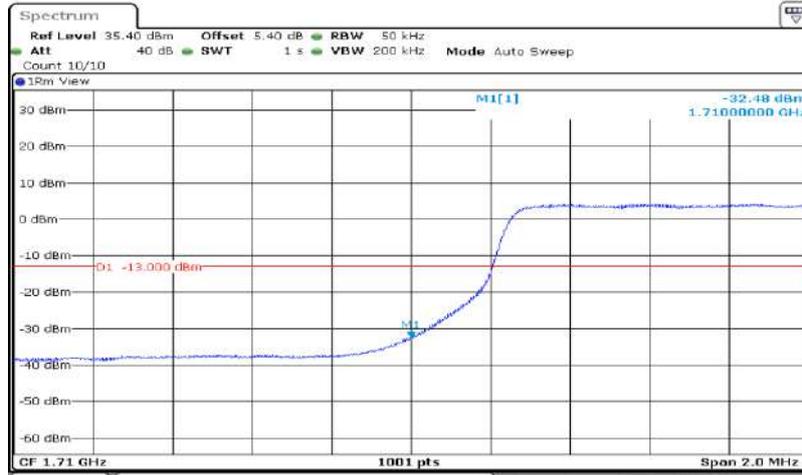


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 10.NOV.2019 21:59:09

Band4-5MHz-QPSK-19975-25RB#0

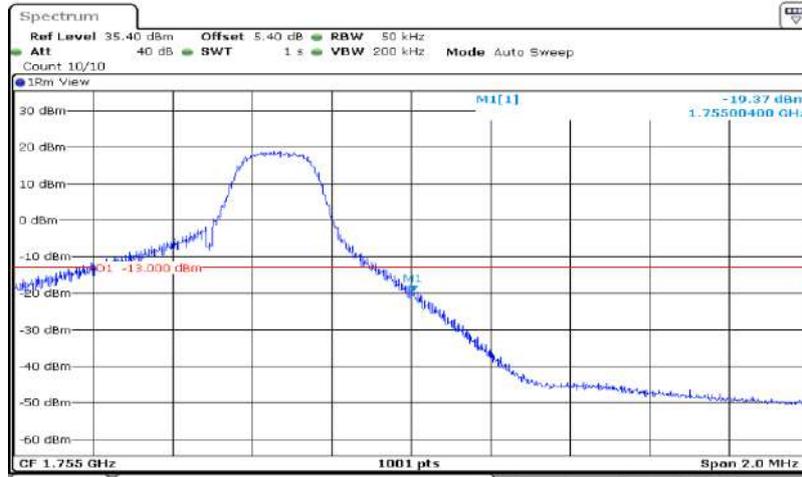


Date: 10.NOV.2019 21:59:43

Band4-5MHz-QPSK-20375-1RB#24

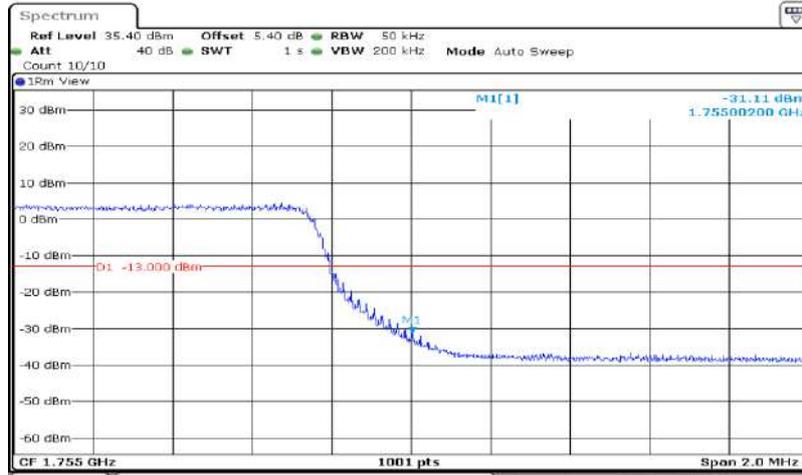


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 10.NOV.2019 22:00:23

Band4-5MHz-QPSK-20375-25RB#0

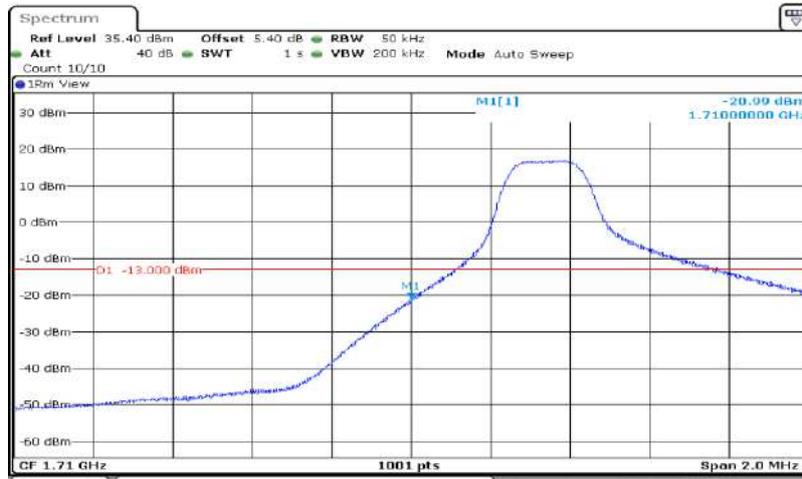


Date: 10.NOV.2019 22:00:57

Band4-5MHz-64QAM-19975-1RB#0



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



Date: 26 NOV 2019 16:59:06

Band4-5MHz-64QAM-19975-25RB#0

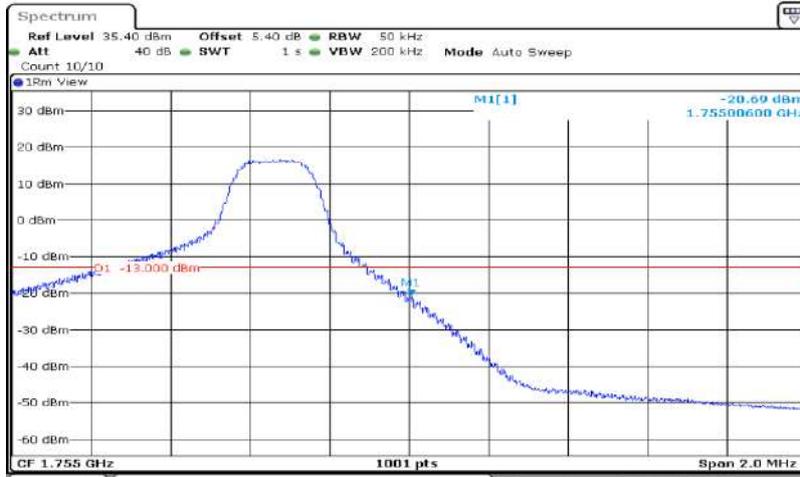


Date: 26 NOV 2019 16:59:25

Band4-5MHz-64QAM-20375-1RB#24

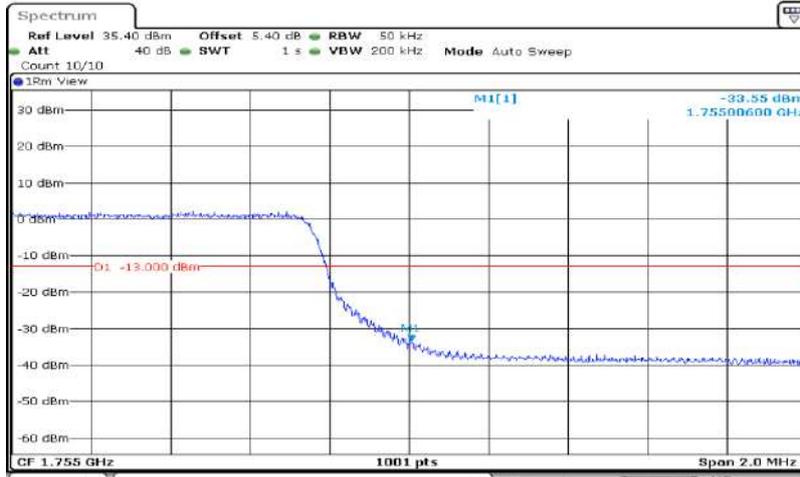


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 26 NOV 2019 18:59:49

Band4-5MHz-64QAM-20375-25RB#0



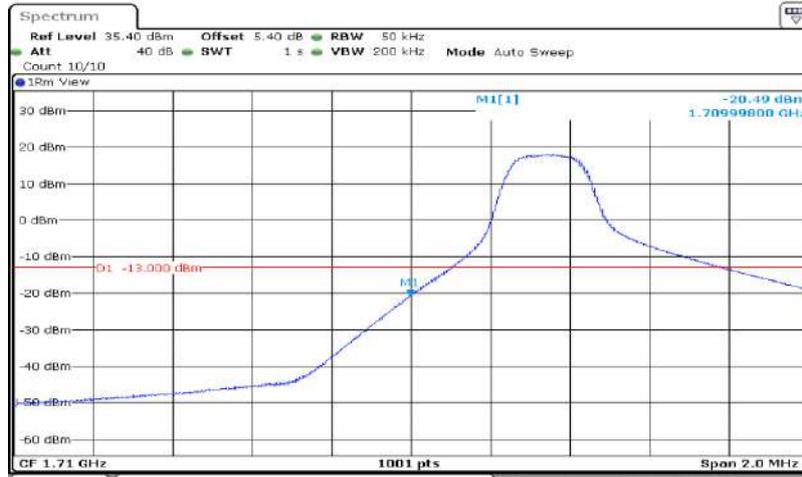
Date: 26 NOV 2019 19:00:09

Band4-5MHz-16QAM-19975-1RB#0



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

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



Date: 10.NOV.2019 21:59:28

Band4-5MHz-16QAM-19975-25RB#0

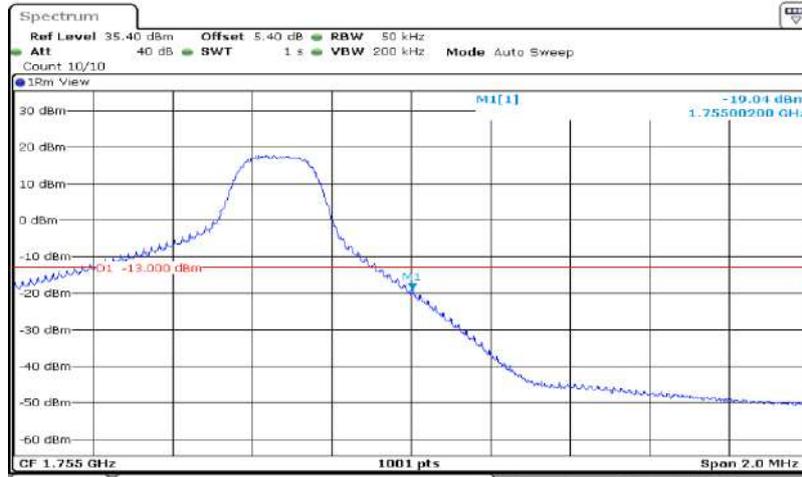


Date: 10.NOV.2019 22:00:00

Band4-5MHz-16QAM-20375-1RB#24

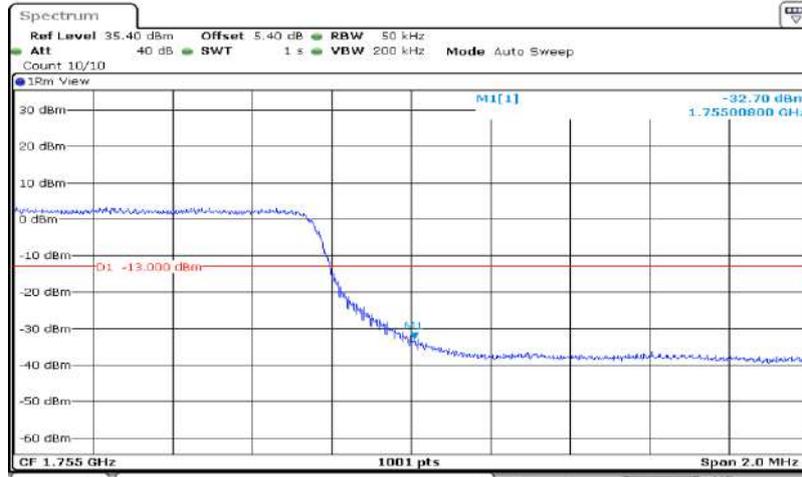


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 22:00:40

Band4-5MHz-16QAM-20375-25RB#0

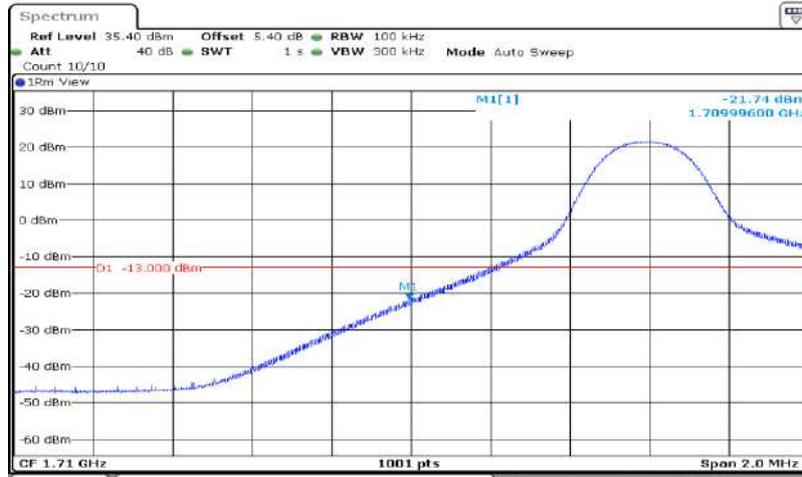


Date: 10.NOV.2019 22:01:14

Band4-10MHz-QPSK-20000-1RB#0

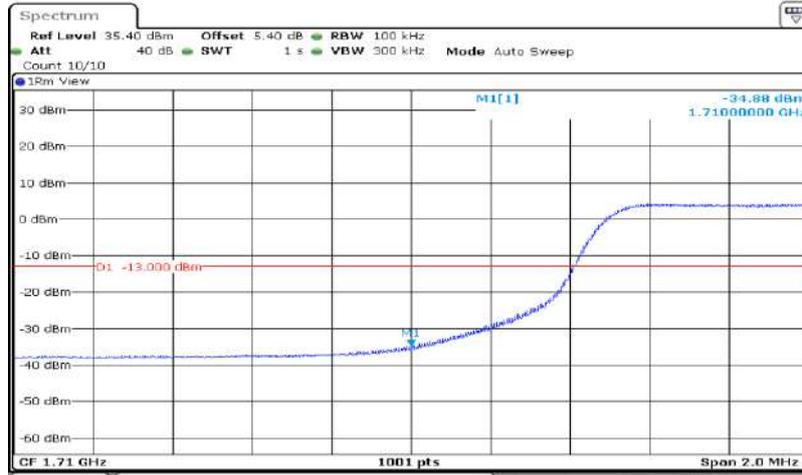


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 22:02:06

Band4-10MHz-QPSK-20000-50RB#0

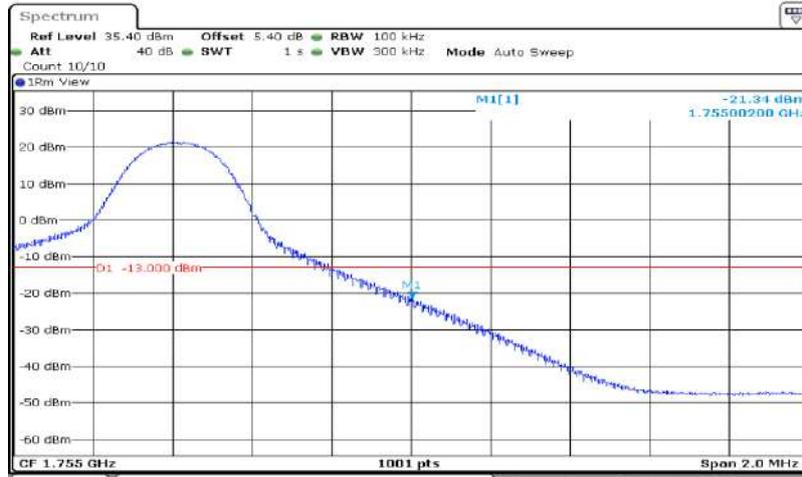


Date: 10.NOV.2019 22:02:41

Band4-10MHz-QPSK-20350-1RB#49

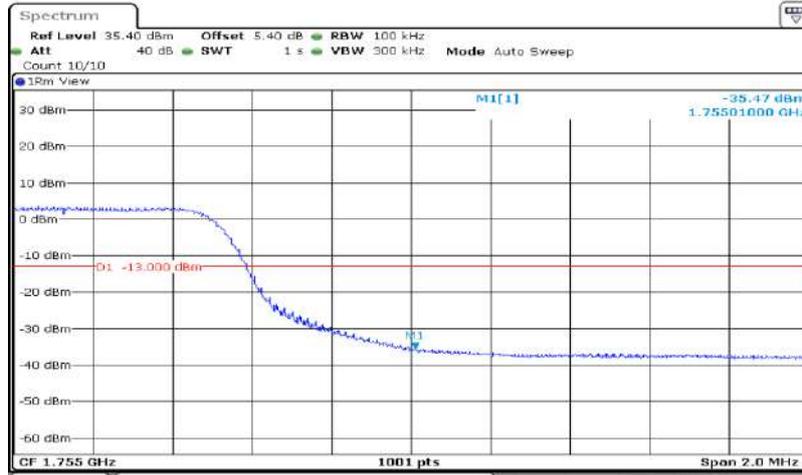


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 22.03.21

Band4-10MHz-QPSK-20350-50RB#0



Date: 10.NOV.2019 22.03.56

Band4-10MHz-64QAM-20000-1RB#0



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



Date: 26 NOV 2019 19:00:33

Band4-10MHz-64QAM-20000-50RB#0

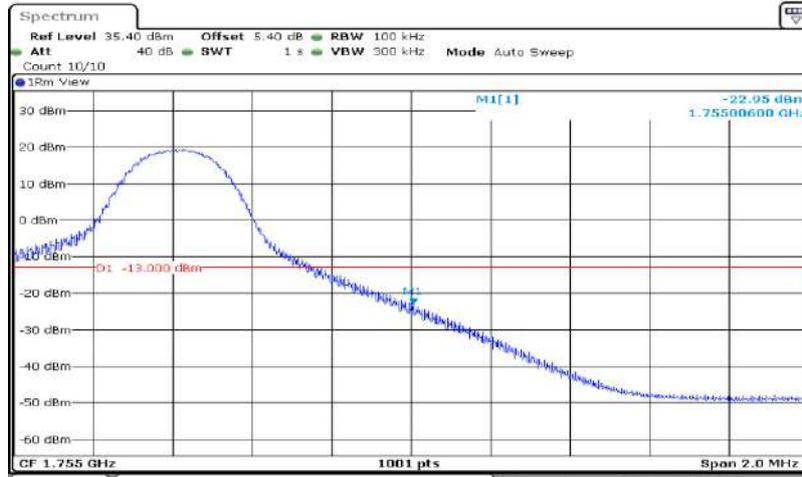


Date: 26 NOV 2019 19:00:53

Band4-10MHz-64QAM-20350-1RB#49

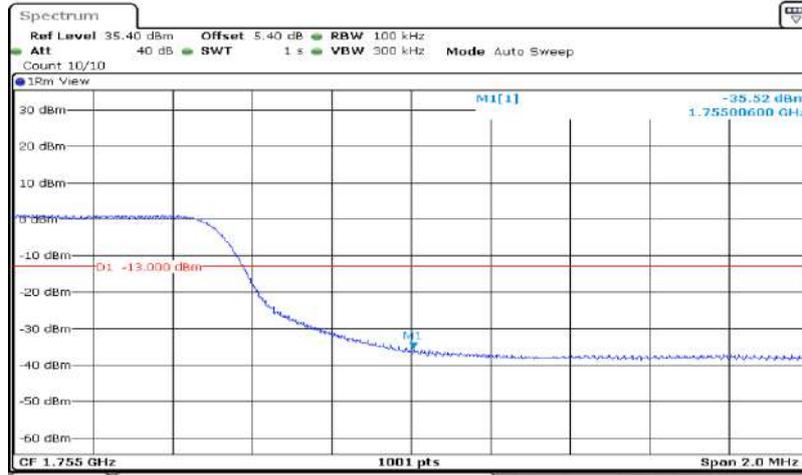


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 26 NOV 2019 19:01:17

Band4-10MHz-64QAM-20350-50RB#0



Date: 26 NOV 2019 19:01:36

Band4-10MHz-16QAM-20000-1RB#0



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



Date: 10.NOV.2019 22:02:23

Band4-10MHz-16QAM-20000-50RB#0

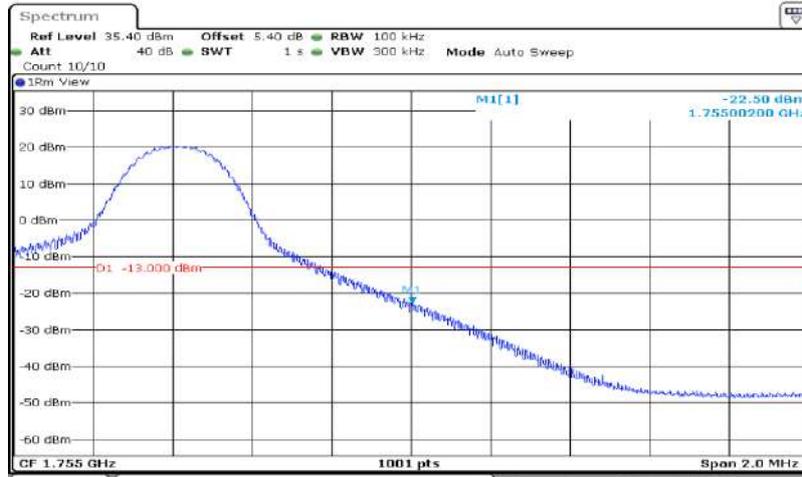


Date: 10.NOV.2019 22:02:58

Band4-10MHz-16QAM-20350-1RB#49

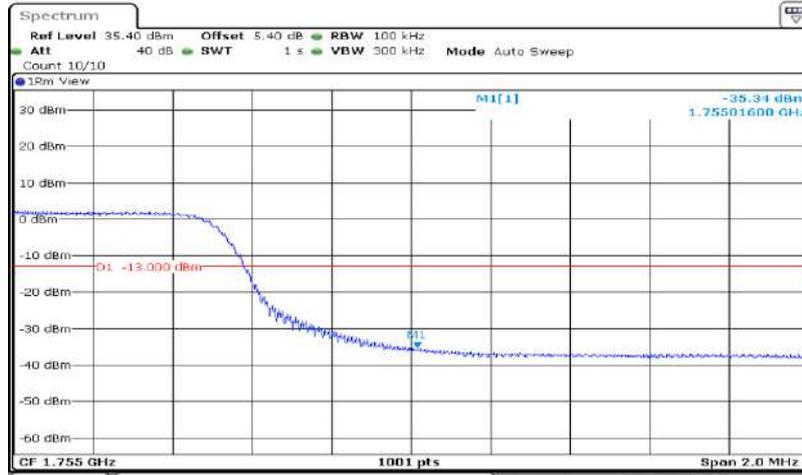


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 10.NOV.2019 22:03:39

Band4-10MHz-16QAM-20350-50RB#0

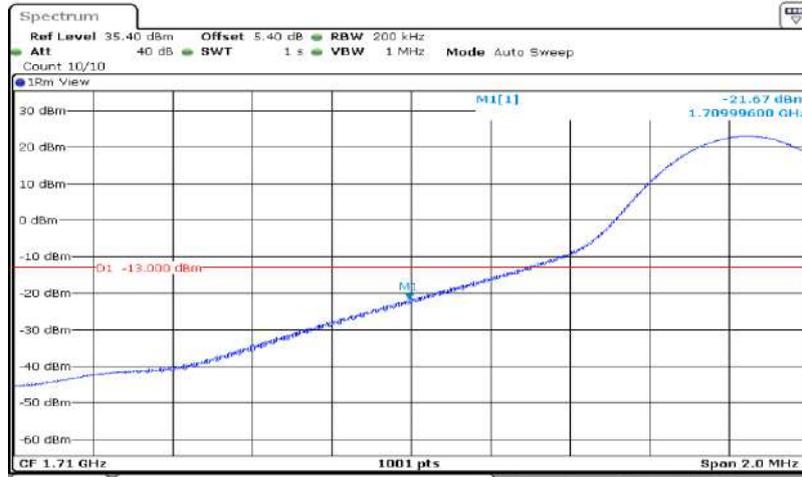


Date: 10.NOV.2019 22:04:13

Band4-15MHz-QPSK-20025-1RB#0

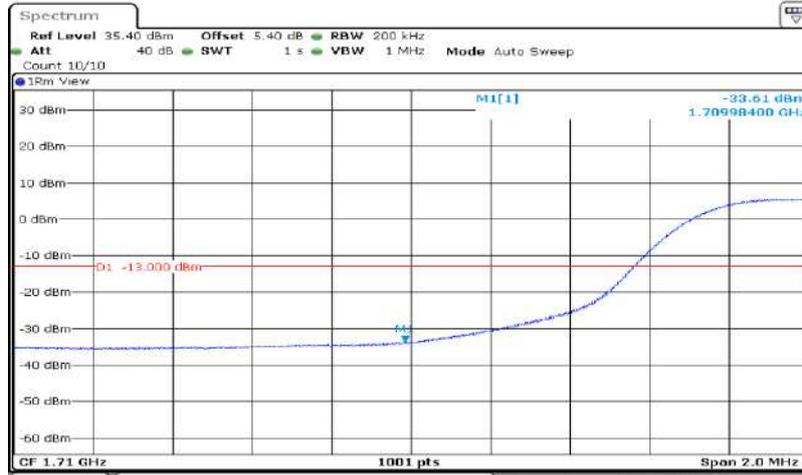


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 22:05:27

Band4-15MHz-QPSK-20025-75RB#0

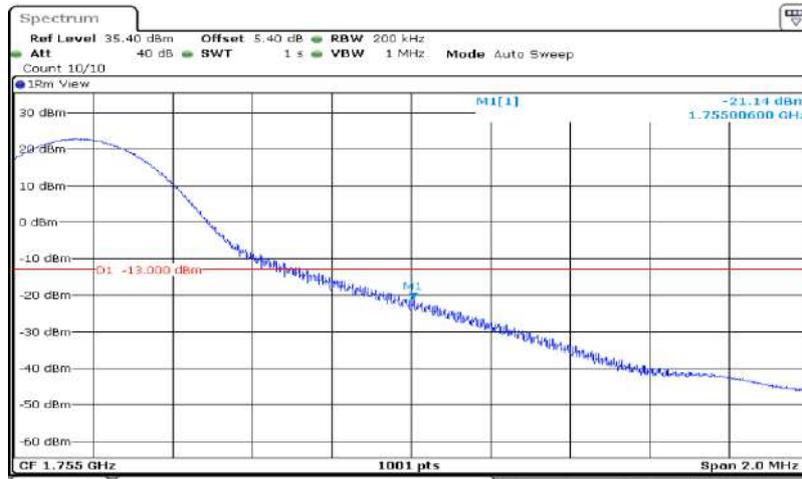


Date: 10.NOV.2019 22:06:02

Band4-15MHz-QPSK-20325-1RB#74

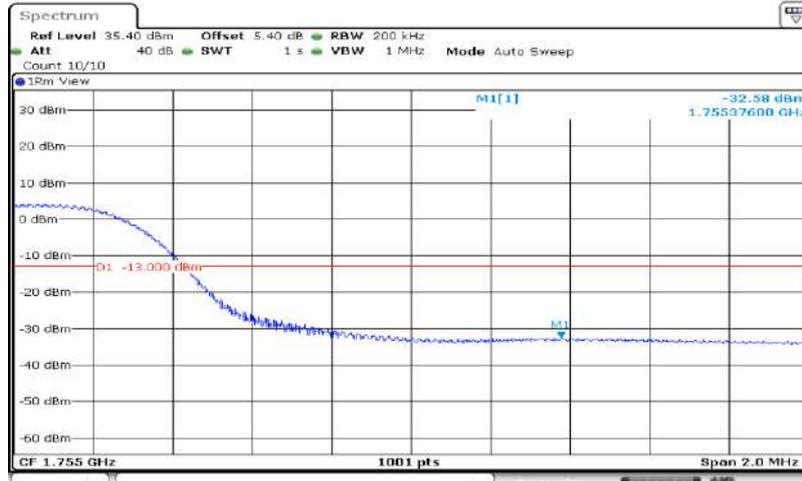


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 22:06:43

Band4-15MHz-QPSK-20325-75RB#0



Date: 10.NOV.2019 22:07:19

Band4-15MHz-64QAM-20025-1RB#0



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



Date: 26 NOV 2019 19:02:01

Band4-15MHz-64QAM-20025-75RB#0

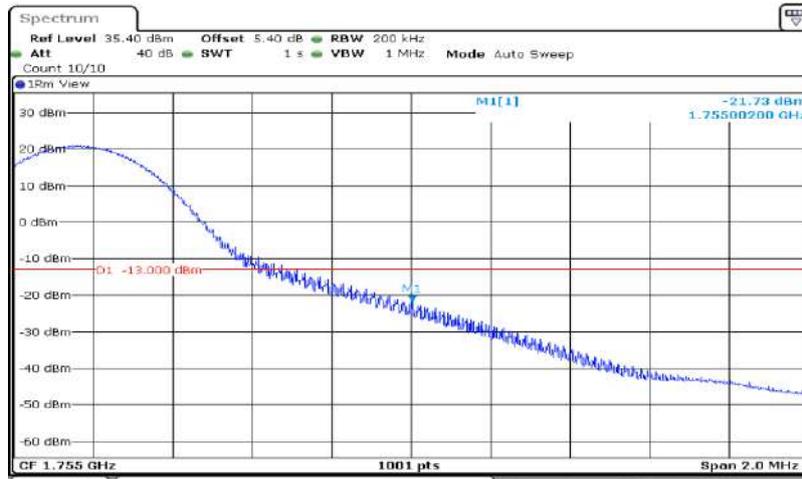


Date: 26 NOV 2019 19:02:20

Band4-15MHz-64QAM-20325-1RB#74

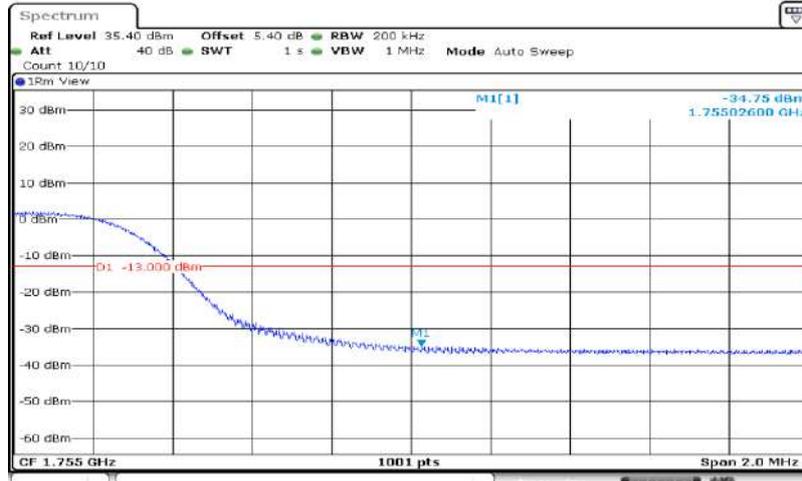


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 26 NOV 2019 19:02:44

Band4-15MHz-64QAM-20325-75RB#0



Date: 26 NOV 2019 19:03:04

Band4-15MHz-16QAM-20025-1RB#0

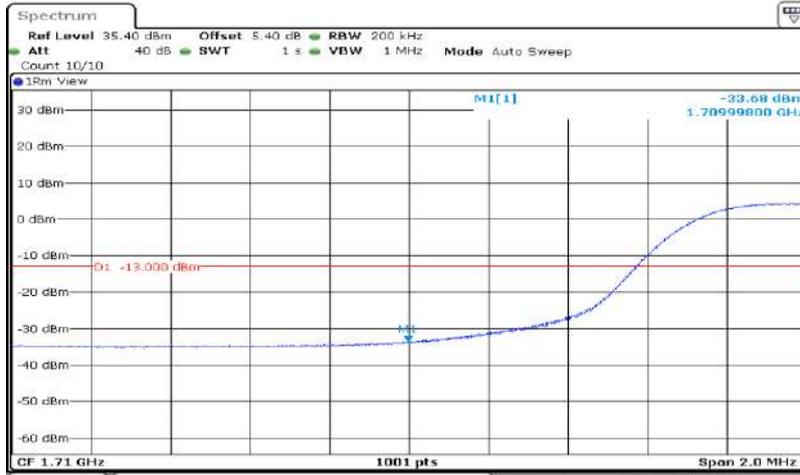


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 22:05:45

Band4-15MHz-16QAM-20025-75RB#0

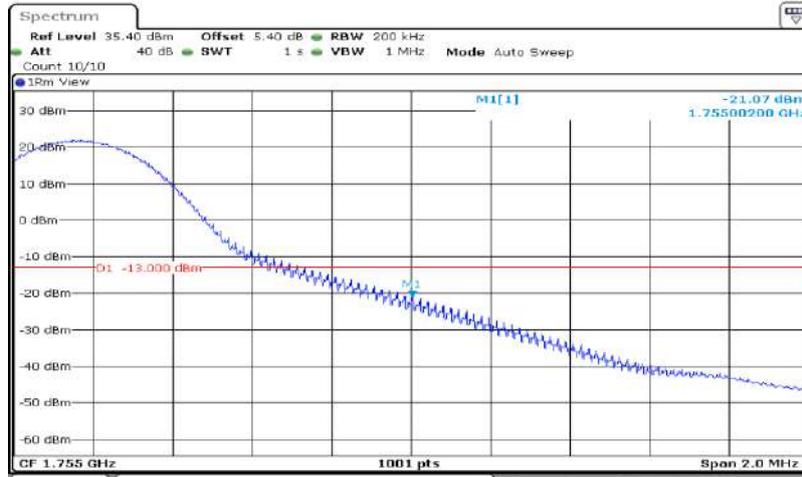


Date: 10.NOV.2019 22:06:20

Band4-15MHz-16QAM-20325-1RB#74

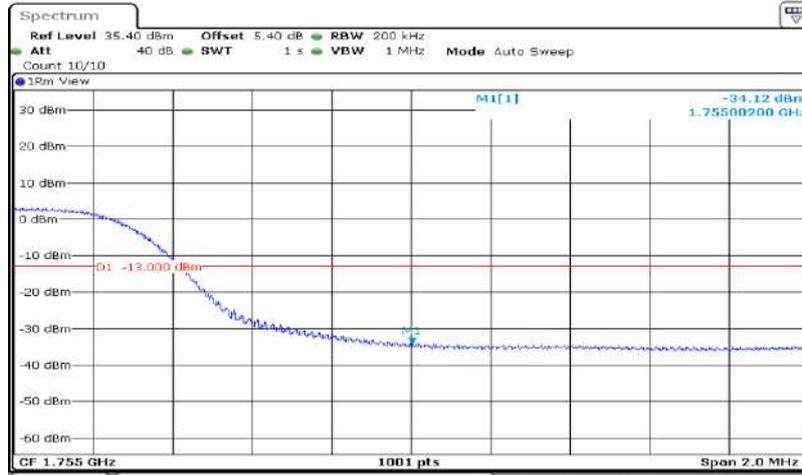


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 10.NOV.2019 22:07:01

Band4-15MHz-16QAM-20325-75RB#0



Date: 10.NOV.2019 22:07:37

Band4-20MHz-QPSK-20050-1RB#0

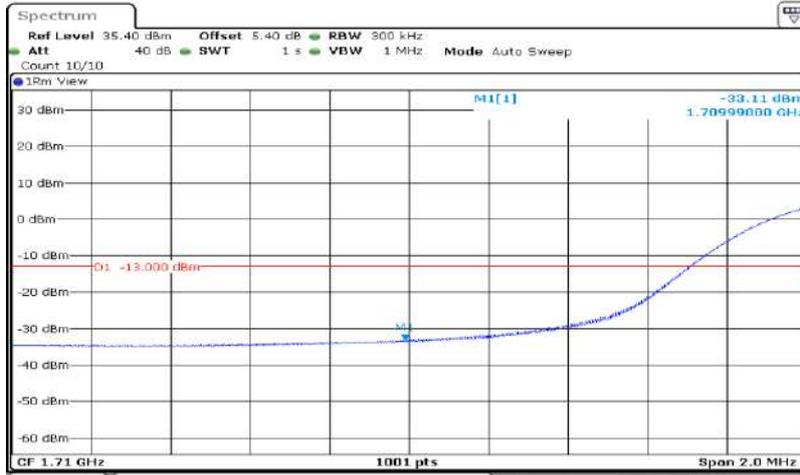


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 22:08:38

Band4-20MHz-QPSK-20050-100RB#0

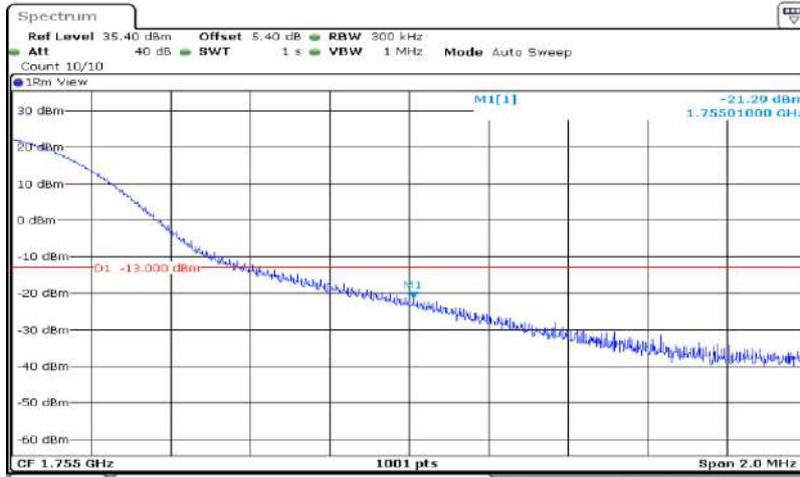


Date: 10.NOV.2019 22:09:12

Band4-20MHz-QPSK-20300-1RB#99

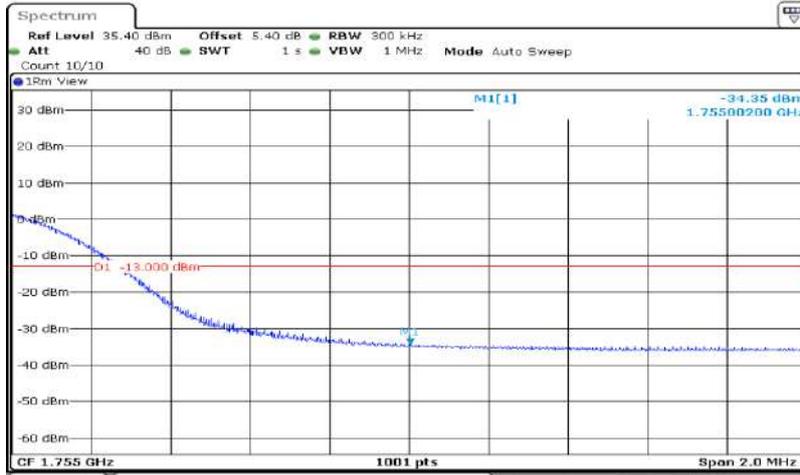


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 10.NOV.2019 22:09:54

Band4-20MHz-QPSK-20300-100RB#0

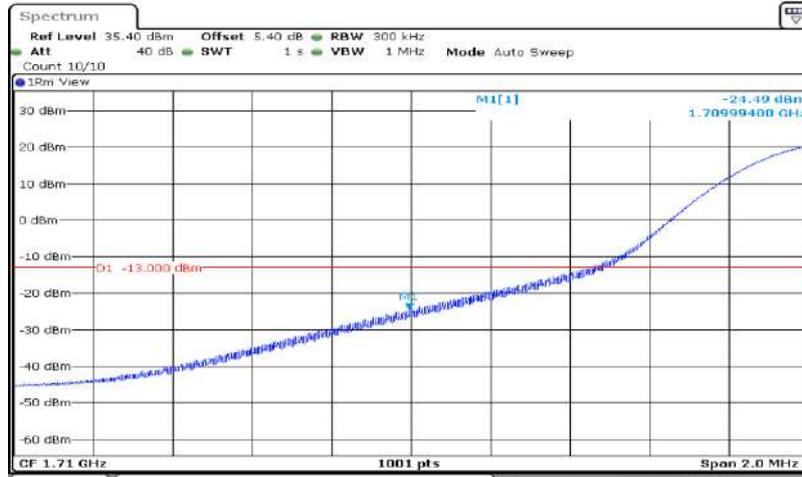


Date: 10.NOV.2019 22:10:30

Band4-20MHz-64QAM-20050-1RB#0

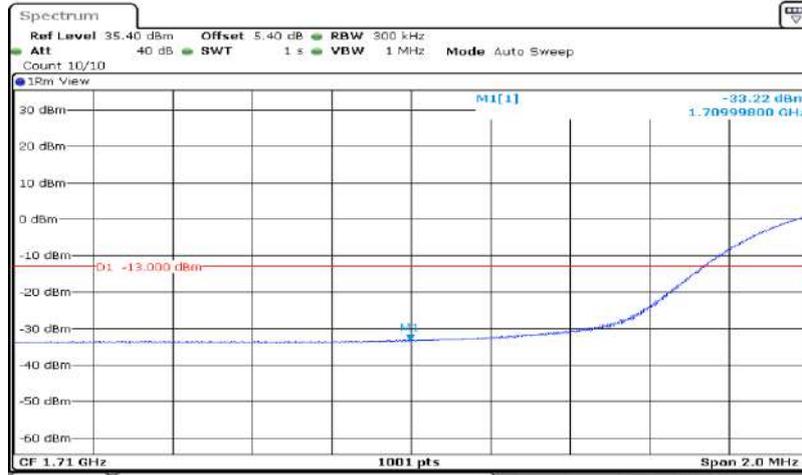


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 26 NOV 2019 19:03:29

Band4-20MHz-64QAM-20050-100RB#0

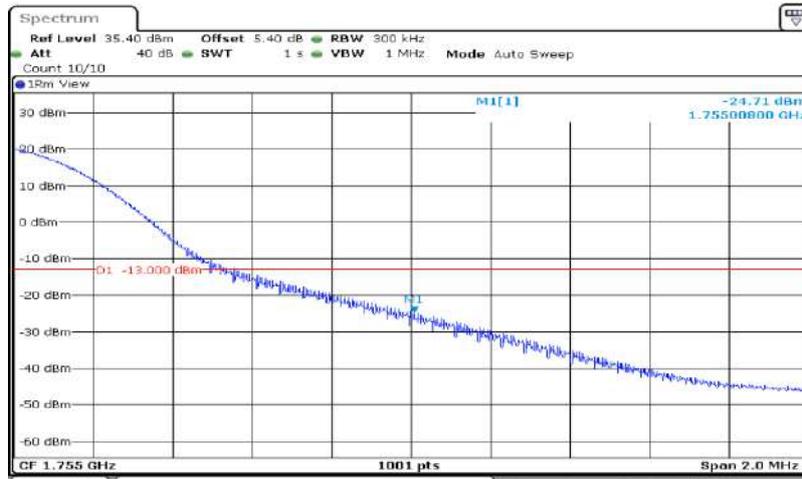


Date: 26 NOV 2019 19:03:49

Band4-20MHz-64QAM-20300-1RB#99

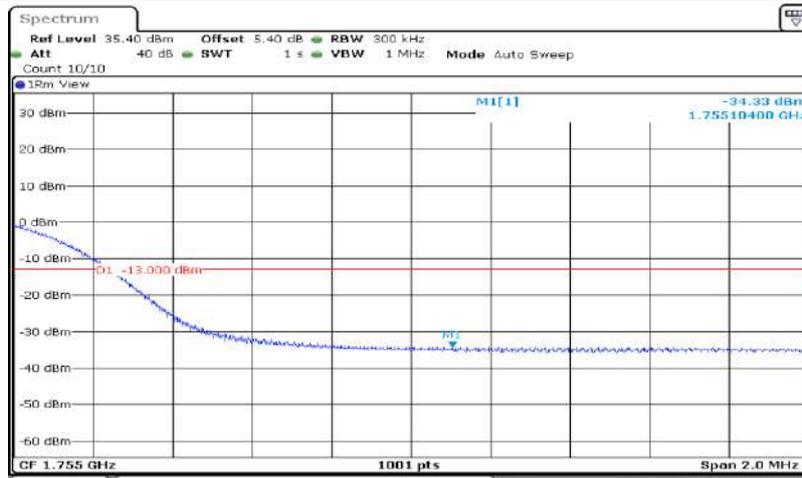


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 26 NOV 2019 19:04:14

Band4-20MHz-64QAM-20300-100RB#0



Date: 26 NOV 2019 19:04:33

Band4-20MHz-16QAM-20050-1RB#0

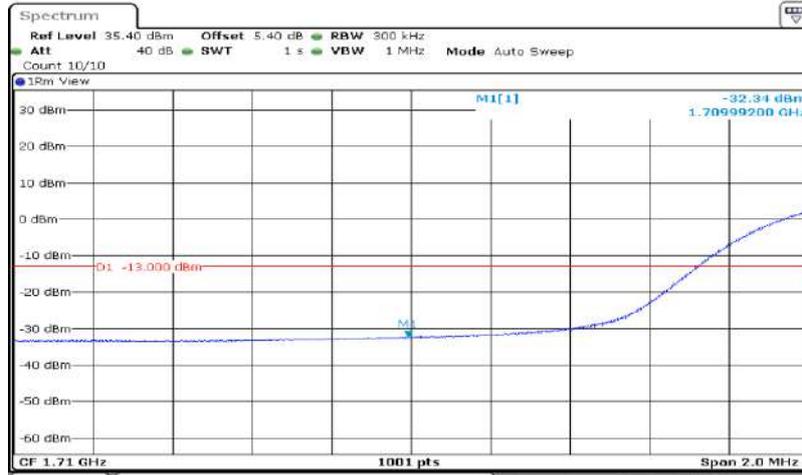


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 22:08:54

Band4-20MHz-16QAM-20050-100RB#0

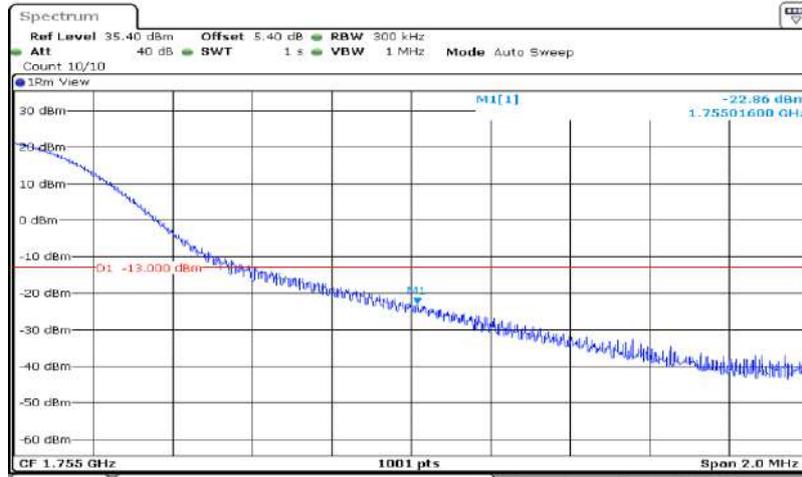


Date: 10.NOV.2019 22:09:30

Band4-20MHz-16QAM-20300-1RB#99

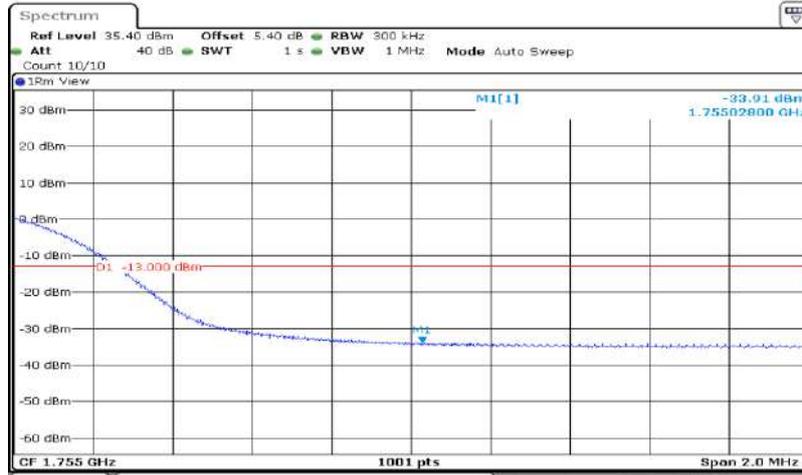


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 10.NOV.2019 22:10:12

Band4-20MHz-16QAM-20300-100RB#0



Date: 10.NOV.2019 22:10:49



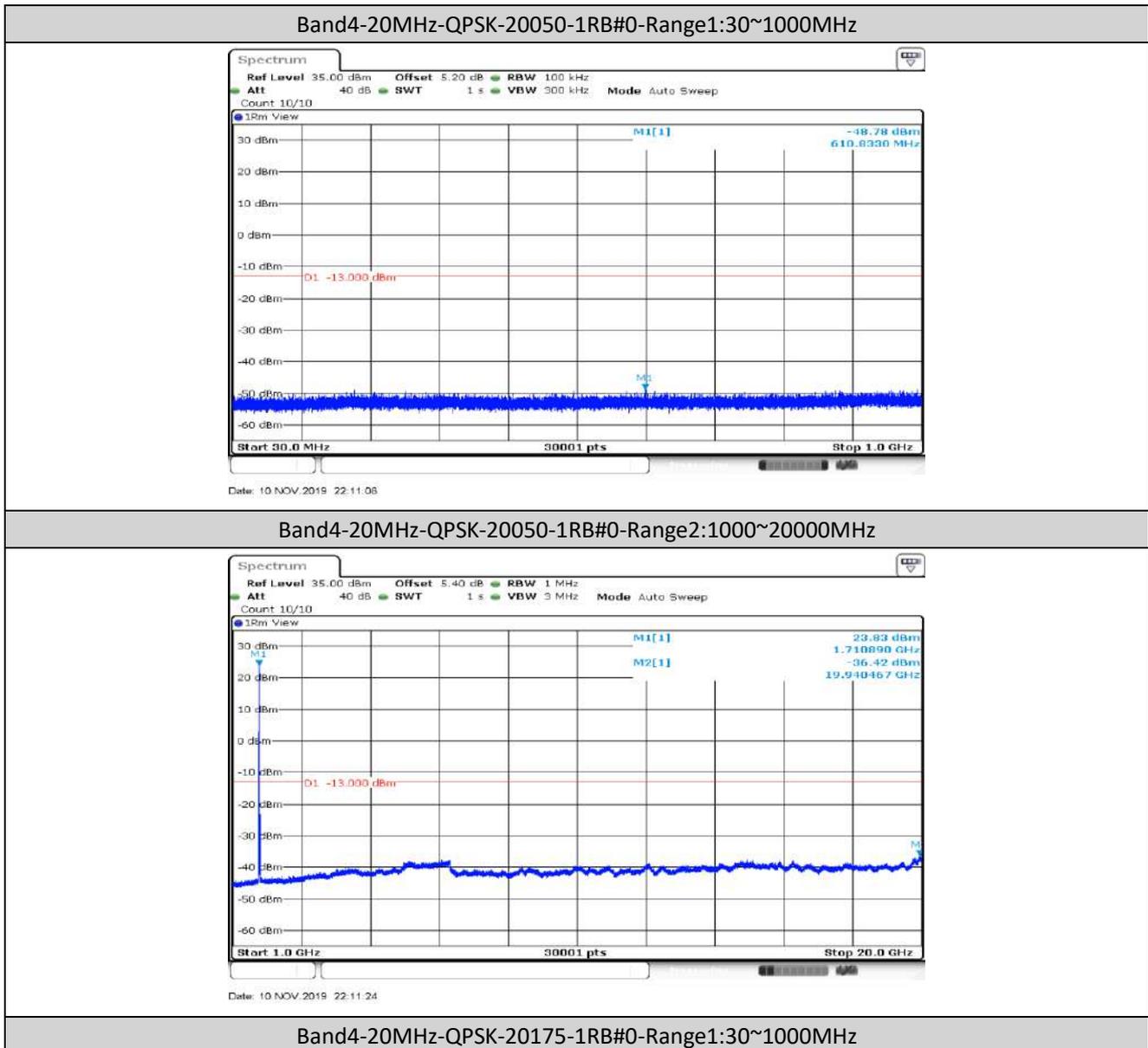
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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.

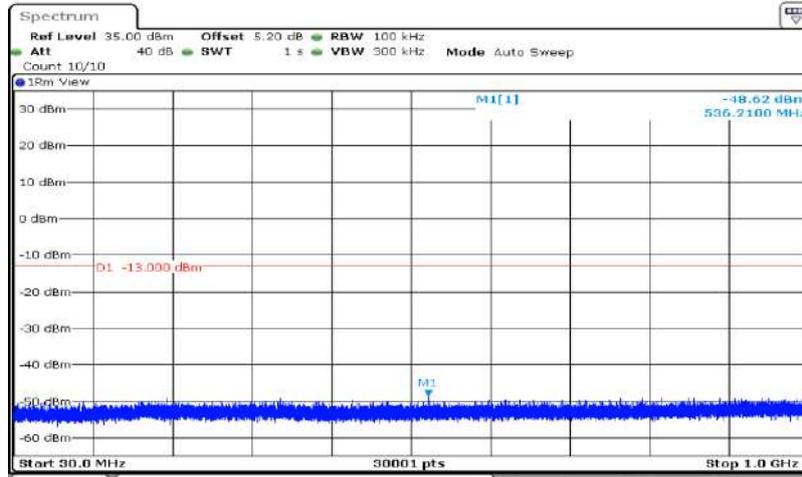
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



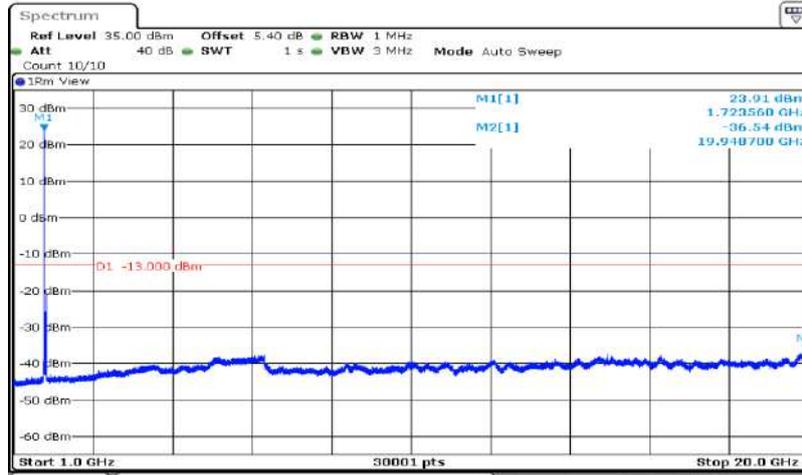
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 10.NOV.2019 22:12:15

Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



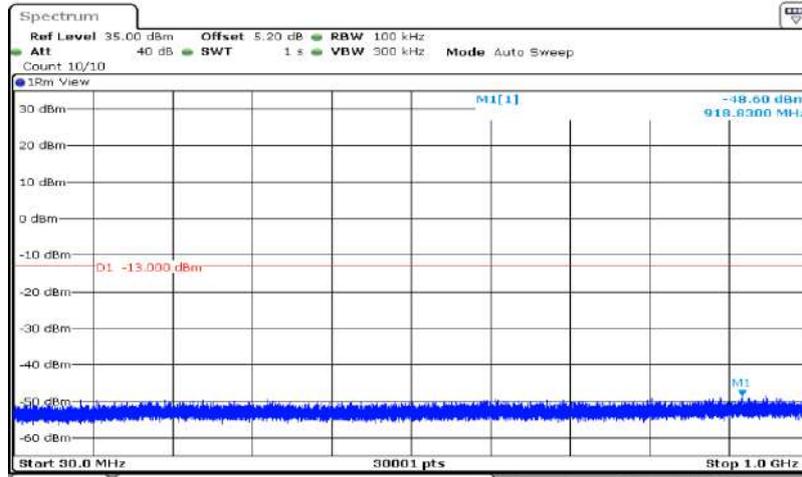
Date: 10.NOV.2019 22:12:32

Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



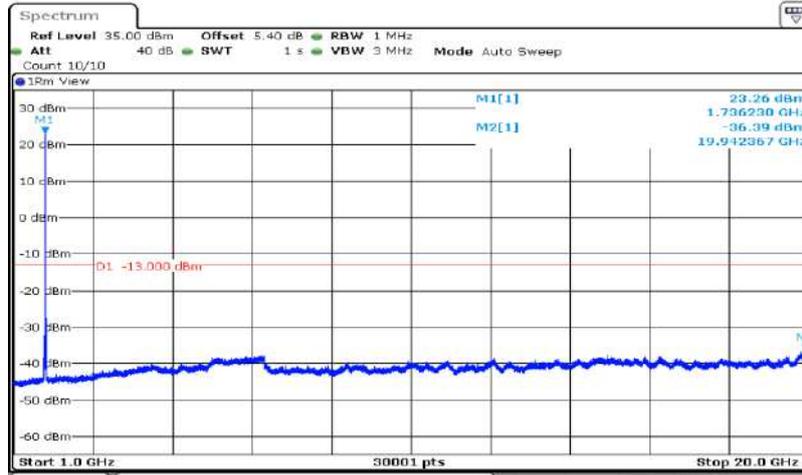
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 10.NOV.2019 22:15:58

Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz

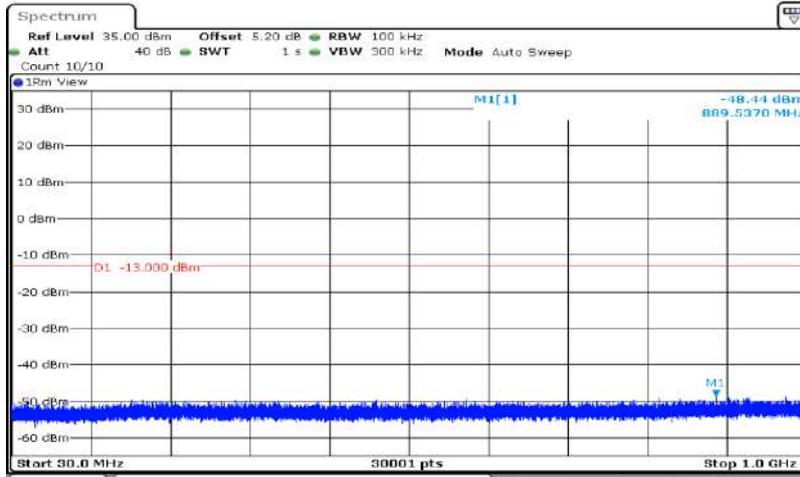


Date: 10.NOV.2019 22:16:14

Band4-20MHz-64QAM-20050-1RB#0-Range1:30~1000MHz

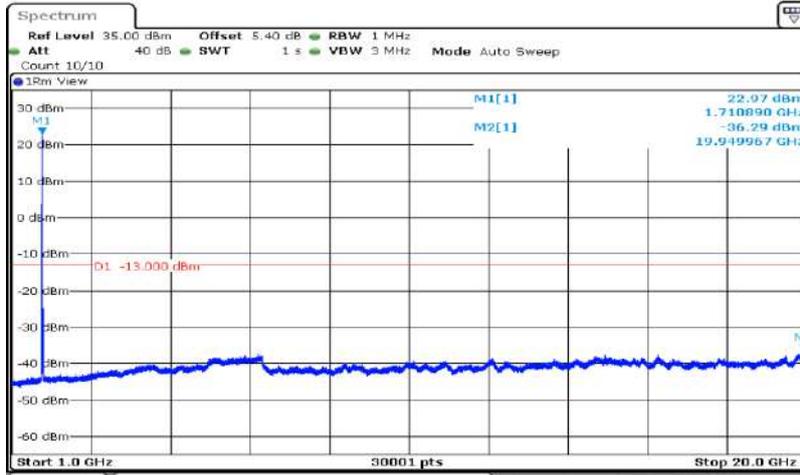


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 26 NOV 2019 19:04:58

Band4-20MHz-64QAM-20050-1RB#0-Range2:1000~20000MHz

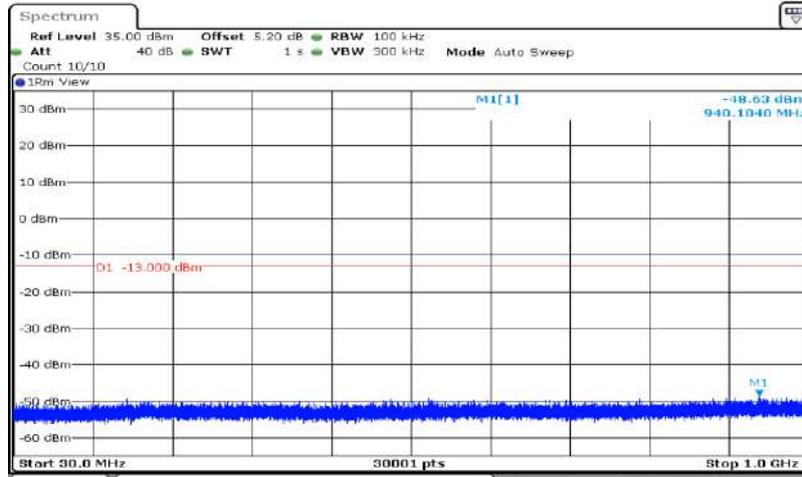


Date: 26 NOV 2019 19:05:12

Band4-20MHz-64QAM-20175-1RB#0-Range1:30~1000MHz

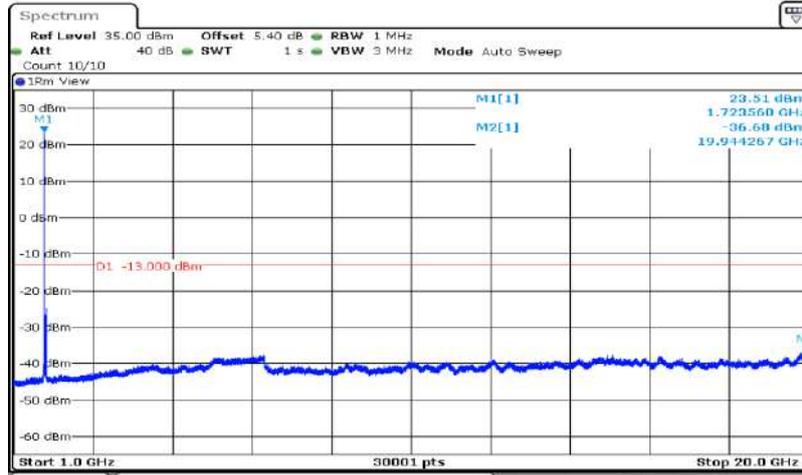


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 26 NOV 2019 19:05:31

Band4-20MHz-64QAM-20175-1RB#0-Range2:1000~20000MHz

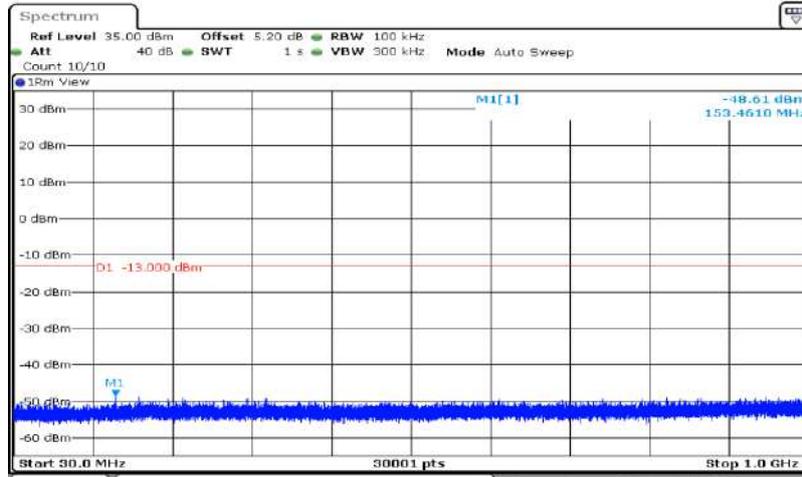


Date: 26 NOV 2019 19:05:47

Band4-20MHz-64QAM-20300-1RB#0-Range1:30~1000MHz

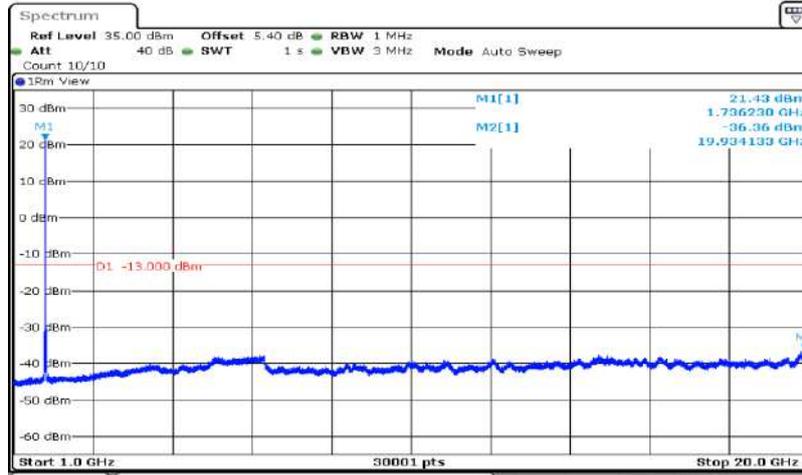


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 26 NOV 2019 19:06:06

Band4-20MHz-64QAM-20300-1RB#0-Range2:1000~20000MHz

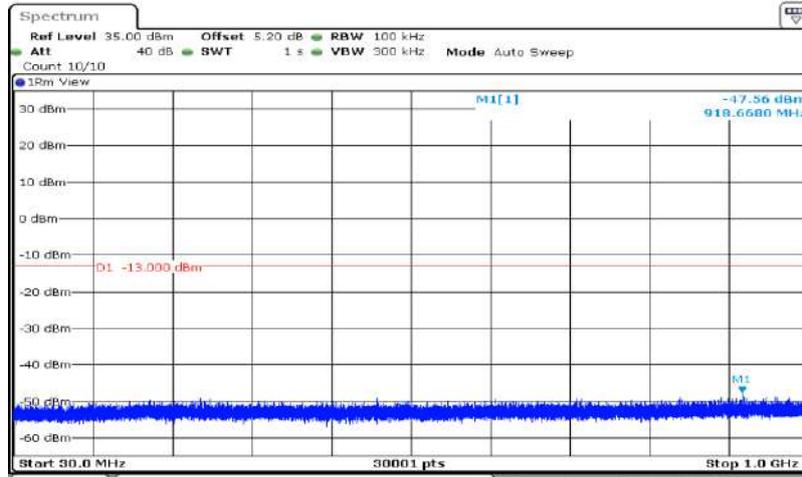


Date: 26 NOV 2019 19:06:22

Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz

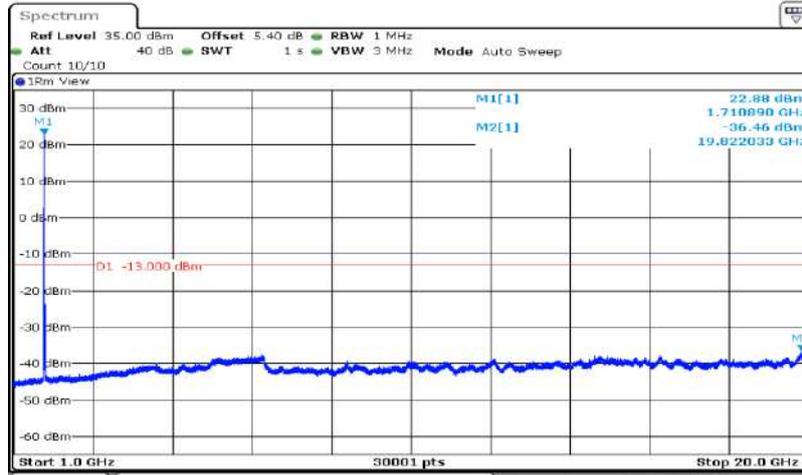


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 10.NOV.2019 22:11:40

Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz

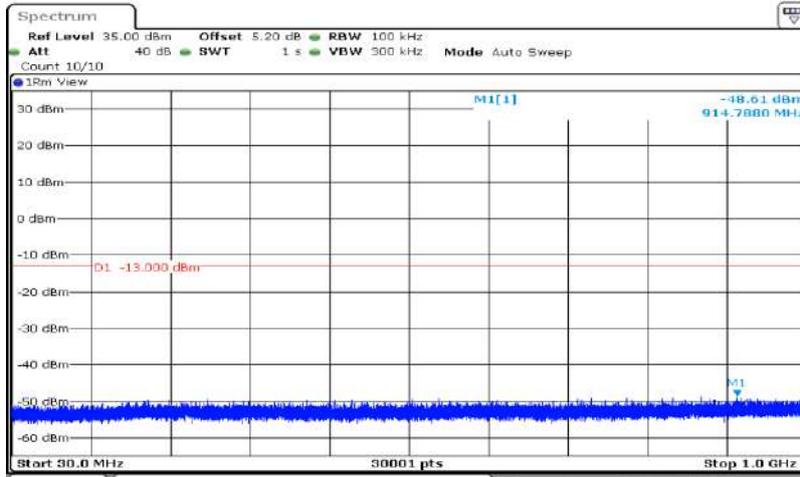


Date: 10.NOV.2019 22:11:57

Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz

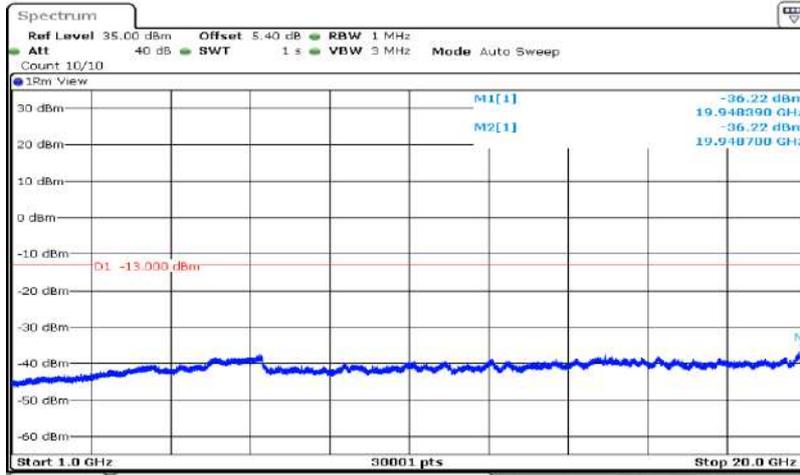


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 10.NOV.2019 22:12:48

Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz

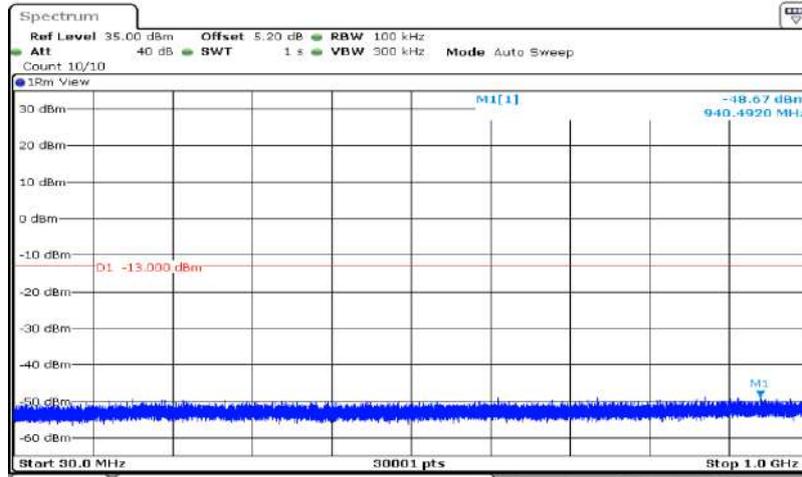


Date: 10.NOV.2019 22:13:04

Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz

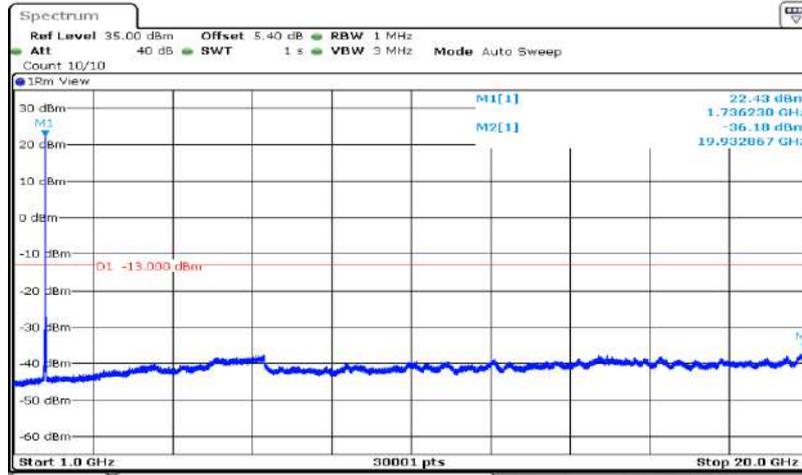


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 10.NOV.2019 22:16:31

Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



Date: 10.NOV.2019 22:16:47



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
66.6193	-68.62	-13.00	55.62	258	204	Vertical
112.7451	-65.05	-13.00	52.05	174	44	Vertical
712.7201	-63.09	-13.00	50.09	196	141	Vertical
2701.9404	-37.54	-13.00	24.54	231	95	Vertical
8545.1848	-52.14	-13.00	39.14	262	109	Vertical
17994.4998	-34.59	-13.00	21.59	261	239	Vertical
37.1299	-64.60	-13.00	51.60	196	258	Horizontal
236.5233	-68.05	-13.00	55.05	185	99	Horizontal
547.1814	-65.64	-13.00	52.64	321	322	Horizontal
2698.7397	-36.28	-13.00	23.28	262	236	Horizontal
10043.2348	-48.96	-13.00	35.96	261	322	Horizontal
16399.9467	-38.96	-13.00	25.96	184	35	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
66.6193	-68.56	-13.00	55.56	169	322	Vertical
114.1517	-65.59	-13.00	52.59	258	227	Vertical
509.3495	-66.38	-13.00	53.38	274	36	Vertical
2699.9400	-37.53	-13.00	24.53	196	205	Vertical
9291.2097	-48.60	-13.00	35.60	231	163	Vertical
17996.4999	-35.05	-13.00	22.05	262	355	Vertical
43.1442	-63.36	-13.00	50.36	169	322	Horizontal
242.7801	-68.75	-13.00	55.75	258	227	Horizontal
522.2996	-65.44	-13.00	52.44	274	36	Horizontal
2699.1398	-36.27	-13.00	23.27	196	205	Horizontal
9309.2103	-48.86	-13.00	35.86	231	163	Horizontal
16393.9465	-38.50	-13.00	25.50	262	355	Horizontal



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

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

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
56.1913	-72.56	-13.00	59.56	156	259	Vertical
112.1146	-64.86	-13.00	51.86	196	131	Vertical
516.0913	-66.02	-13.00	53.02	231	163	Vertical
2700.3401	-37.20	-13.00	24.20	252	113	Vertical
9879.7293	-48.73	-13.00	35.73	219	99	Vertical
17987.9996	-34.11	-13.00	21.11	184	259	Vertical
43.0957	-63.30	-13.00	50.30	156	259	Horizontal
238.1239	-68.02	-13.00	55.02	196	131	Horizontal
609.0220	-63.03	-13.00	50.03	231	163	Horizontal
2701.1402	-36.09	-13.00	23.09	252	113	Horizontal
9311.2104	-48.34	-13.00	35.34	219	99	Horizontal
16395.9465	-38.73	-13.00	25.73	184	259	Horizontal

Remark:

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



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

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



8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	-14.81	-0.008610	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	-15.25	-0.008866	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-17.41	-0.010122	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-12.26	-0.007076	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-17.15	-0.009899	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-11.74	-0.006776	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-13.98	-0.008011	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-13.19	-0.007559	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-10.09	-0.005782	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	-3.20	-0.001860	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	-9.70	-0.005640	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	-11.30	-0.006570	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	-8.00	-0.004618	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	-6.10	-0.003521	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	-8.40	-0.004848	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-7.70	-0.004413	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-5.60	-0.003209	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-2.70	-0.001547	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-12.12	-0.007047	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	-12.66	-0.007360	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-13.28	-0.007721	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-13.29	-0.007671	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-14.68	-0.008473	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-11.04	-0.006372	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-12.19	-0.006986	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-11.42	-0.006544	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-15.46	-0.008860	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	-12.96	-0.007535	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-15.15	-0.008808	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-12.76	-0.007419	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-22.65	-0.013169	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-13.79	-0.008017	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	-10.57	-0.006145	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-13.38	-0.007779	±2.5	PASS



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

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



Band4	20MHz	QPSK	20050	100RB#0	NV	50	-13.76	-0.008000	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-14.63	-0.008444	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-14.39	-0.008306	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-13.63	-0.007867	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-18.35	-0.010592	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-14.22	-0.008208	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-12.65	-0.007302	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-15.55	-0.008975	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-15.39	-0.008883	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-11.57	-0.006630	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-9.54	-0.005467	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-10.66	-0.006109	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-12.04	-0.006900	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-10.64	-0.006097	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-8.27	-0.004739	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-9.98	-0.005719	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-14.12	-0.008092	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	-9.10	-0.005291	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	-7.00	-0.004070	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	-8.00	-0.004651	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	-3.60	-0.002093	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	-2.50	-0.001453	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	-4.60	-0.002674	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	40	-2.20	-0.001279	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	50	-6.10	-0.003547	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	-14.10	-0.008139	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	-7.90	-0.004560	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	-9.90	-0.005714	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	-11.50	-0.006638	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	-4.00	-0.002309	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	-8.80	-0.005079	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	-4.70	-0.002713	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	-8.70	-0.005022	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	-7.00	-0.004011	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	-5.00	-0.002865	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	-10.10	-0.005788	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	-5.10	-0.002923	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-6.10	-0.003496	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	-4.00	-0.002292	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-11.16	-0.006488	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	-10.53	-0.006122	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-14.32	-0.008326	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	-10.93	-0.006355	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	-14.32	-0.008326	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	-11.60	-0.006744	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	-15.02	-0.008733	±2.5	PASS



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

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

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	20MHz	16QAM	20050	100RB#0	NV	50	-13.33	-0.007750	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-15.91	-0.009183	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-8.08	-0.004664	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	-9.54	-0.005506	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-9.83	-0.005674	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	8.17	0.004716	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-10.71	-0.006182	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	-13.07	-0.007544	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	-11.20	-0.006465	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-12.12	-0.006946	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-13.23	-0.007582	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-11.77	-0.006745	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-11.46	-0.006567	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-9.83	-0.005633	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-16.29	-0.009335	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-10.14	-0.005811	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-12.45	-0.007135	±2.5	PASS



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

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