



Appendix B

E-UTRA BAND 4



CONTENT

1. EFFECTIVE (ISOTROPIC) RADIATED POWER	4
1.1. Test Result	4
2. PEAK-TO-AVERAGE RATIO(CCDF)	14
2.1. Test Result	14
2.2. Test Plots.....	14
3. MODULATION CHARACTERISTICS	18
3.1. Test BAND = LTE BAND4	18
3.1.1. Test Mode = LTE /TM1 20MHz.....	18
3.1.1.1. Test Channel = MCH.....	18
3.1.2. Test Mode = LTE /TM2 20MHz.....	19
3.1.2.1. Test Channel = MCH.....	19
3.1.1. Test Mode = LTE /TM3 20MHz.....	20
3.1.1.1. Test Channel = MCH.....	20
4. 26dB BANDWIDTH AND OCCUPIED BANDWIDTH.....	21
4.1. Test Result	21
4.2. Test Plots.....	22
5. BAND EDGE COMPLIANCE	41
5.1. Test Plots.....	41
6. SPURIOUS EMISSION AT ANTENNA TERMINAL	66
6.1. Test Plots.....	66
7. FIELD STRENGTH OF SPURIOUS RADIATION	73
7.1. Test BAND = LTE BAND 4 -Main Antenna	73
7.1.1. Test Mode =LTE/TM1 20MHz	73
7.1.1.1. Test Channel = LCH_H.....	73
7.1.1.2. Test Channel = LCH_V	74
7.1.1.3. Test Channel = MCH_H.....	75
7.1.1.4. Test Channel = MCH_V	76
7.1.1.5. Test Channel = HCH_H	77
7.1.1.6. Test Channel = HCH_V	78
7.2. Test BAND = LTE BAND 4 -Second Antenna.....	79
7.2.1. Test Mode =LTE/TM1 20MHz	79
7.2.1.1. Test Channel = LCH_H.....	79
7.2.1.2. Test Channel = LCH_V	80
7.2.1.3. Test Channel = MCH_H.....	81



7.2.1.4.	Test Channel = MCH_V	82
7.2.1.5.	Test Channel = HCH_H	83
7.2.1.6.	Test Channel = HCH_V	84
8.	FREQUENCY STABILITY	85
8.1.	Frequency Vs Voltage	85
8.2.	Frequency Vs Temperature	85



1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
BAND4	1.4MHz	QPSK	19957	1RB#0	23.92	24.13	30.00	PASS
BAND4	1.4MHz	QPSK	19957	1RB#2	23.60	23.81	30.00	PASS
BAND4	1.4MHz	QPSK	19957	1RB#5	24.00	24.21	30.00	PASS
BAND4	1.4MHz	QPSK	19957	3RB#0	23.89	24.1	30.00	PASS
BAND4	1.4MHz	QPSK	19957	3RB#1	23.65	23.86	30.00	PASS
BAND4	1.4MHz	QPSK	19957	3RB#3	23.90	24.11	30.00	PASS
BAND4	1.4MHz	QPSK	19957	6RB#0	22.36	22.57	30.00	PASS
BAND4	1.4MHz	QPSK	20175	1RB#0	23.81	24.02	30.00	PASS
BAND4	1.4MHz	QPSK	20175	1RB#2	23.73	23.94	30.00	PASS
BAND4	1.4MHz	QPSK	20175	1RB#5	23.88	24.09	30.00	PASS
BAND4	1.4MHz	QPSK	20175	3RB#0	23.83	24.04	30.00	PASS
BAND4	1.4MHz	QPSK	20175	3RB#1	23.64	23.85	30.00	PASS
BAND4	1.4MHz	QPSK	20175	3RB#3	23.85	24.06	30.00	PASS
BAND4	1.4MHz	QPSK	20175	6RB#0	22.34	22.55	30.00	PASS
BAND4	1.4MHz	QPSK	20393	1RB#0	23.86	24.07	30.00	PASS
BAND4	1.4MHz	QPSK	20393	1RB#2	23.73	23.94	30.00	PASS
BAND4	1.4MHz	QPSK	20393	1RB#5	23.94	24.15	30.00	PASS
BAND4	1.4MHz	QPSK	20393	3RB#0	23.87	24.08	30.00	PASS
BAND4	1.4MHz	QPSK	20393	3RB#1	23.78	23.99	30.00	PASS
BAND4	1.4MHz	QPSK	20393	3RB#3	23.82	24.03	30.00	PASS
BAND4	1.4MHz	QPSK	20393	6RB#0	22.35	22.56	30.00	PASS
BAND4	1.4MHz	64QAM	19957	1RB#0	22.99	23.2	30.00	PASS
BAND4	1.4MHz	64QAM	19957	1RB#2	22.71	22.92	30.00	PASS
BAND4	1.4MHz	64QAM	19957	1RB#5	23.01	23.22	30.00	PASS
BAND4	1.4MHz	64QAM	19957	3RB#0	22.87	23.08	30.00	PASS
BAND4	1.4MHz	64QAM	19957	3RB#1	22.71	22.92	30.00	PASS
BAND4	1.4MHz	64QAM	19957	3RB#3	22.87	23.08	30.00	PASS
BAND4	1.4MHz	64QAM	19957	6RB#0	21.85	22.06	30.00	PASS
BAND4	1.4MHz	64QAM	20175	1RB#0	21.99	22.2	30.00	PASS
BAND4	1.4MHz	64QAM	20175	1RB#2	21.66	21.87	30.00	PASS
BAND4	1.4MHz	64QAM	20175	1RB#5	22.08	22.29	30.00	PASS
BAND4	1.4MHz	64QAM	20175	3RB#0	21.68	21.89	30.00	PASS
BAND4	1.4MHz	64QAM	20175	3RB#1	21.59	21.8	30.00	PASS
BAND4	1.4MHz	64QAM	20175	3RB#3	21.92	22.13	30.00	PASS



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

Report No.: SZEM180700654901

Page: 5 of 86

BAND4	1.4MHz	64QAM	20175	6RB#0	20.89	21.1	30.00	PASS
BAND4	1.4MHz	64QAM	20393	1RB#0	22.09	22.3	30.00	PASS
BAND4	1.4MHz	64QAM	20393	1RB#2	21.76	21.97	30.00	PASS
BAND4	1.4MHz	64QAM	20393	1RB#5	22.11	22.32	30.00	PASS
BAND4	1.4MHz	64QAM	20393	3RB#0	21.92	22.13	30.00	PASS
BAND4	1.4MHz	64QAM	20393	3RB#1	21.82	22.03	30.00	PASS
BAND4	1.4MHz	64QAM	20393	3RB#3	21.92	22.13	30.00	PASS
BAND4	1.4MHz	64QAM	20393	6RB#0	20.90	21.11	30.00	PASS
BAND4	1.4MHz	16QAM	19957	1RB#0	23.04	23.25	30.00	PASS
BAND4	1.4MHz	16QAM	19957	1RB#2	22.65	22.86	30.00	PASS
BAND4	1.4MHz	16QAM	19957	1RB#5	23.23	23.44	30.00	PASS
BAND4	1.4MHz	16QAM	19957	3RB#0	22.87	23.08	30.00	PASS
BAND4	1.4MHz	16QAM	19957	3RB#1	22.72	22.93	30.00	PASS
BAND4	1.4MHz	16QAM	19957	3RB#3	22.86	23.07	30.00	PASS
BAND4	1.4MHz	16QAM	19957	6RB#0	21.87	22.08	30.00	PASS
BAND4	1.4MHz	16QAM	20175	1RB#0	22.90	23.11	30.00	PASS
BAND4	1.4MHz	16QAM	20175	1RB#2	22.57	22.78	30.00	PASS
BAND4	1.4MHz	16QAM	20175	1RB#5	23.10	23.31	30.00	PASS
BAND4	1.4MHz	16QAM	20175	3RB#0	22.92	23.13	30.00	PASS
BAND4	1.4MHz	16QAM	20175	3RB#1	22.69	22.9	30.00	PASS
BAND4	1.4MHz	16QAM	20175	3RB#3	22.81	23.02	30.00	PASS
BAND4	1.4MHz	16QAM	20175	6RB#0	21.81	22.02	30.00	PASS
BAND4	1.4MHz	16QAM	20393	1RB#0	23.02	23.23	30.00	PASS
BAND4	1.4MHz	16QAM	20393	1RB#2	22.81	23.02	30.00	PASS
BAND4	1.4MHz	16QAM	20393	1RB#5	23.08	23.29	30.00	PASS
BAND4	1.4MHz	16QAM	20393	3RB#0	22.84	23.05	30.00	PASS
BAND4	1.4MHz	16QAM	20393	3RB#1	22.76	22.97	30.00	PASS
BAND4	1.4MHz	16QAM	20393	3RB#3	22.86	23.07	30.00	PASS
BAND4	1.4MHz	16QAM	20393	6RB#0	21.82	22.03	30.00	PASS
BAND4	3MHz	QPSK	19965	1RB#0	24.02	24.23	30.00	PASS
BAND4	3MHz	QPSK	19965	1RB#8	24.01	24.22	30.00	PASS
BAND4	3MHz	QPSK	19965	1RB#14	23.89	24.1	30.00	PASS
BAND4	3MHz	QPSK	19965	8RB#0	22.32	22.53	30.00	PASS
BAND4	3MHz	QPSK	19965	8RB#4	22.37	22.58	30.00	PASS
BAND4	3MHz	QPSK	19965	8RB#7	22.37	22.58	30.00	PASS
BAND4	3MHz	QPSK	19965	15RB#0	22.35	22.56	30.00	PASS
BAND4	3MHz	QPSK	20175	1RB#0	23.79	24	30.00	PASS
BAND4	3MHz	QPSK	20175	1RB#8	23.85	24.06	30.00	PASS
BAND4	3MHz	QPSK	20175	1RB#14	23.91	24.12	30.00	PASS
BAND4	3MHz	QPSK	20175	8RB#0	22.34	22.55	30.00	PASS
BAND4	3MHz	QPSK	20175	8RB#4	22.43	22.64	30.00	PASS

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.



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

Report No.: SZEM180700654901

Page: 6 of 86

BAND4	3MHz	QPSK	20175	8RB#7	22.41	22.62	30.00	PASS
BAND4	3MHz	QPSK	20175	15RB#0	22.40	22.61	30.00	PASS
BAND4	3MHz	QPSK	20385	1RB#0	23.84	24.05	30.00	PASS
BAND4	3MHz	QPSK	20385	1RB#8	23.88	24.09	30.00	PASS
BAND4	3MHz	QPSK	20385	1RB#14	24.03	24.24	30.00	PASS
BAND4	3MHz	QPSK	20385	8RB#0	22.31	22.52	30.00	PASS
BAND4	3MHz	QPSK	20385	8RB#4	22.39	22.6	30.00	PASS
BAND4	3MHz	QPSK	20385	8RB#7	22.37	22.58	30.00	PASS
BAND4	3MHz	QPSK	20385	15RB#0	22.40	22.61	30.00	PASS
BAND4	3MHz	64QAM	19965	1RB#0	22.92	23.13	30.00	PASS
BAND4	3MHz	64QAM	19965	1RB#8	22.97	23.18	30.00	PASS
BAND4	3MHz	64QAM	19965	1RB#14	23.03	23.24	30.00	PASS
BAND4	3MHz	64QAM	19965	8RB#0	21.80	22.01	30.00	PASS
BAND4	3MHz	64QAM	19965	8RB#4	21.86	22.07	30.00	PASS
BAND4	3MHz	64QAM	19965	8RB#7	21.81	22.02	30.00	PASS
BAND4	3MHz	64QAM	19965	15RB#0	21.84	22.05	30.00	PASS
BAND4	3MHz	64QAM	20175	1RB#0	21.89	22.1	30.00	PASS
BAND4	3MHz	64QAM	20175	1RB#8	22.08	22.29	30.00	PASS
BAND4	3MHz	64QAM	20175	1RB#14	22.15	22.36	30.00	PASS
BAND4	3MHz	64QAM	20175	8RB#0	20.66	20.87	30.00	PASS
BAND4	3MHz	64QAM	20175	8RB#4	20.76	20.97	30.00	PASS
BAND4	3MHz	64QAM	20175	8RB#7	20.72	20.93	30.00	PASS
BAND4	3MHz	64QAM	20175	15RB#0	20.86	21.07	30.00	PASS
BAND4	3MHz	64QAM	20385	1RB#0	22.02	22.23	30.00	PASS
BAND4	3MHz	64QAM	20385	1RB#8	22.06	22.27	30.00	PASS
BAND4	3MHz	64QAM	20385	1RB#14	22.26	22.47	30.00	PASS
BAND4	3MHz	64QAM	20385	8RB#0	20.83	21.04	30.00	PASS
BAND4	3MHz	64QAM	20385	8RB#4	20.86	21.07	30.00	PASS
BAND4	3MHz	64QAM	20385	8RB#7	20.87	21.08	30.00	PASS
BAND4	3MHz	64QAM	20385	15RB#0	20.89	21.1	30.00	PASS
BAND4	3MHz	16QAM	19965	1RB#0	23.21	23.42	30.00	PASS
BAND4	3MHz	16QAM	19965	1RB#8	23.16	23.37	30.00	PASS
BAND4	3MHz	16QAM	19965	1RB#14	23.06	23.27	30.00	PASS
BAND4	3MHz	16QAM	19965	8RB#0	21.84	22.05	30.00	PASS
BAND4	3MHz	16QAM	19965	8RB#4	21.86	22.07	30.00	PASS
BAND4	3MHz	16QAM	19965	8RB#7	21.85	22.06	30.00	PASS
BAND4	3MHz	16QAM	19965	15RB#0	21.82	22.03	30.00	PASS
BAND4	3MHz	16QAM	20175	1RB#0	22.94	23.15	30.00	PASS
BAND4	3MHz	16QAM	20175	1RB#8	22.96	23.17	30.00	PASS
BAND4	3MHz	16QAM	20175	1RB#14	23.10	23.31	30.00	PASS
BAND4	3MHz	16QAM	20175	8RB#0	21.80	22.01	30.00	PASS

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.



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

Report No.: SZEM180700654901

Page: 7 of 86

BAND4	3MHz	16QAM	20175	8RB#4	21.87	22.08	30.00	PASS
BAND4	3MHz	16QAM	20175	8RB#7	21.88	22.09	30.00	PASS
BAND4	3MHz	16QAM	20175	15RB#0	21.86	22.07	30.00	PASS
BAND4	3MHz	16QAM	20385	1RB#0	22.93	23.14	30.00	PASS
BAND4	3MHz	16QAM	20385	1RB#8	23.09	23.3	30.00	PASS
BAND4	3MHz	16QAM	20385	1RB#14	23.13	23.34	30.00	PASS
BAND4	3MHz	16QAM	20385	8RB#0	21.81	22.02	30.00	PASS
BAND4	3MHz	16QAM	20385	8RB#4	21.85	22.06	30.00	PASS
BAND4	3MHz	16QAM	20385	8RB#7	21.84	22.05	30.00	PASS
BAND4	3MHz	16QAM	20385	15RB#0	21.85	22.06	30.00	PASS
BAND4	5MHz	QPSK	19975	1RB#0	23.86	24.07	30.00	PASS
BAND4	5MHz	QPSK	19975	1RB#12	23.32	23.53	30.00	PASS
BAND4	5MHz	QPSK	19975	1RB#24	23.85	24.06	30.00	PASS
BAND4	5MHz	QPSK	19975	12RB#0	22.59	22.8	30.00	PASS
BAND4	5MHz	QPSK	19975	12RB#6	22.29	22.5	30.00	PASS
BAND4	5MHz	QPSK	19975	12RB#13	22.34	22.55	30.00	PASS
BAND4	5MHz	QPSK	19975	25RB#0	22.31	22.52	30.00	PASS
BAND4	5MHz	QPSK	20175	1RB#0	23.87	24.08	30.00	PASS
BAND4	5MHz	QPSK	20175	1RB#12	23.30	23.51	30.00	PASS
BAND4	5MHz	QPSK	20175	1RB#24	23.95	24.16	30.00	PASS
BAND4	5MHz	QPSK	20175	12RB#0	22.38	22.59	30.00	PASS
BAND4	5MHz	QPSK	20175	12RB#6	22.42	22.63	30.00	PASS
BAND4	5MHz	QPSK	20175	12RB#13	22.50	22.71	30.00	PASS
BAND4	5MHz	QPSK	20175	25RB#0	22.39	22.6	30.00	PASS
BAND4	5MHz	QPSK	20375	1RB#0	23.86	24.07	30.00	PASS
BAND4	5MHz	QPSK	20375	1RB#12	23.30	23.51	30.00	PASS
BAND4	5MHz	QPSK	20375	1RB#24	23.86	24.07	30.00	PASS
BAND4	5MHz	QPSK	20375	12RB#0	22.42	22.63	30.00	PASS
BAND4	5MHz	QPSK	20375	12RB#6	22.39	22.6	30.00	PASS
BAND4	5MHz	QPSK	20375	12RB#13	22.41	22.62	30.00	PASS
BAND4	5MHz	QPSK	20375	25RB#0	22.39	22.6	30.00	PASS
BAND4	5MHz	64QAM	19975	1RB#0	22.94	23.15	30.00	PASS
BAND4	5MHz	64QAM	19975	1RB#12	22.42	22.63	30.00	PASS
BAND4	5MHz	64QAM	19975	1RB#24	22.92	23.13	30.00	PASS
BAND4	5MHz	64QAM	19975	12RB#0	21.82	22.03	30.00	PASS
BAND4	5MHz	64QAM	19975	12RB#6	21.71	21.92	30.00	PASS
BAND4	5MHz	64QAM	19975	12RB#13	21.81	22.02	30.00	PASS
BAND4	5MHz	64QAM	19975	25RB#0	21.75	21.96	30.00	PASS
BAND4	5MHz	64QAM	20175	1RB#0	21.97	22.18	30.00	PASS
BAND4	5MHz	64QAM	20175	1RB#12	21.45	21.66	30.00	PASS
BAND4	5MHz	64QAM	20175	1RB#24	22.14	22.35	30.00	PASS

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



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

Report No.: SZEM180700654901

Page: 8 of 86

BAND4	5MHz	64QAM	20175	12RB#0	20.91	21.12	30.00	PASS
BAND4	5MHz	64QAM	20175	12RB#6	20.91	21.12	30.00	PASS
BAND4	5MHz	64QAM	20175	12RB#13	20.96	21.17	30.00	PASS
BAND4	5MHz	64QAM	20175	25RB#0	20.85	21.06	30.00	PASS
BAND4	5MHz	64QAM	20375	1RB#0	21.95	22.16	30.00	PASS
BAND4	5MHz	64QAM	20375	1RB#12	21.65	21.86	30.00	PASS
BAND4	5MHz	64QAM	20375	1RB#24	22.27	22.48	30.00	PASS
BAND4	5MHz	64QAM	20375	12RB#0	20.90	21.11	30.00	PASS
BAND4	5MHz	64QAM	20375	12RB#6	20.88	21.09	30.00	PASS
BAND4	5MHz	64QAM	20375	12RB#13	20.91	21.12	30.00	PASS
BAND4	5MHz	64QAM	20375	25RB#0	20.86	21.07	30.00	PASS
BAND4	5MHz	16QAM	19975	1RB#0	23.06	23.27	30.00	PASS
BAND4	5MHz	16QAM	19975	1RB#12	22.34	22.55	30.00	PASS
BAND4	5MHz	16QAM	19975	1RB#24	22.98	23.19	30.00	PASS
BAND4	5MHz	16QAM	19975	12RB#0	22.09	22.3	30.00	PASS
BAND4	5MHz	16QAM	19975	12RB#6	21.70	21.91	30.00	PASS
BAND4	5MHz	16QAM	19975	12RB#13	21.81	22.02	30.00	PASS
BAND4	5MHz	16QAM	19975	25RB#0	21.74	21.95	30.00	PASS
BAND4	5MHz	16QAM	20175	1RB#0	22.91	23.12	30.00	PASS
BAND4	5MHz	16QAM	20175	1RB#12	22.37	22.58	30.00	PASS
BAND4	5MHz	16QAM	20175	1RB#24	23.00	23.21	30.00	PASS
BAND4	5MHz	16QAM	20175	12RB#0	21.90	22.11	30.00	PASS
BAND4	5MHz	16QAM	20175	12RB#6	21.83	22.04	30.00	PASS
BAND4	5MHz	16QAM	20175	12RB#13	21.94	22.15	30.00	PASS
BAND4	5MHz	16QAM	20175	25RB#0	21.84	22.05	30.00	PASS
BAND4	5MHz	16QAM	20375	1RB#0	23.09	23.3	30.00	PASS
BAND4	5MHz	16QAM	20375	1RB#12	22.48	22.69	30.00	PASS
BAND4	5MHz	16QAM	20375	1RB#24	23.16	23.37	30.00	PASS
BAND4	5MHz	16QAM	20375	12RB#0	21.84	22.05	30.00	PASS
BAND4	5MHz	16QAM	20375	12RB#6	21.85	22.06	30.00	PASS
BAND4	5MHz	16QAM	20375	12RB#13	21.90	22.11	30.00	PASS
BAND4	5MHz	16QAM	20375	25RB#0	21.82	22.03	30.00	PASS
BAND4	10MHz	QPSK	20000	1RB#0	23.96	24.17	30.00	PASS
BAND4	10MHz	QPSK	20000	1RB#24	23.73	23.94	30.00	PASS
BAND4	10MHz	QPSK	20000	1RB#49	23.90	24.11	30.00	PASS
BAND4	10MHz	QPSK	20000	25RB#0	22.64	22.85	30.00	PASS
BAND4	10MHz	QPSK	20000	25RB#12	22.50	22.71	30.00	PASS
BAND4	10MHz	QPSK	20000	25RB#25	22.52	22.73	30.00	PASS
BAND4	10MHz	QPSK	20000	50RB#0	22.45	22.66	30.00	PASS
BAND4	10MHz	QPSK	20175	1RB#0	23.84	24.05	30.00	PASS
BAND4	10MHz	QPSK	20175	1RB#24	23.80	24.01	30.00	PASS

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



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

Report No.: SZEM180700654901

Page: 9 of 86

BAND4	10MHz	QPSK	20175	1RB#49	23.99	24.2	30.00	PASS
BAND4	10MHz	QPSK	20175	25RB#0	22.36	22.57	30.00	PASS
BAND4	10MHz	QPSK	20175	25RB#12	22.35	22.56	30.00	PASS
BAND4	10MHz	QPSK	20175	25RB#25	22.49	22.7	30.00	PASS
BAND4	10MHz	QPSK	20175	50RB#0	22.37	22.58	30.00	PASS
BAND4	10MHz	QPSK	20350	1RB#0	23.87	24.08	30.00	PASS
BAND4	10MHz	QPSK	20350	1RB#24	23.76	23.97	30.00	PASS
BAND4	10MHz	QPSK	20350	1RB#49	23.92	24.13	30.00	PASS
BAND4	10MHz	QPSK	20350	25RB#0	22.55	22.76	30.00	PASS
BAND4	10MHz	QPSK	20350	25RB#12	22.51	22.72	30.00	PASS
BAND4	10MHz	QPSK	20350	25RB#25	22.42	22.63	30.00	PASS
BAND4	10MHz	QPSK	20350	50RB#0	22.54	22.75	30.00	PASS
BAND4	10MHz	64QAM	20000	1RB#0	23.03	23.24	30.00	PASS
BAND4	10MHz	64QAM	20000	1RB#24	22.93	23.14	30.00	PASS
BAND4	10MHz	64QAM	20000	1RB#49	22.93	23.14	30.00	PASS
BAND4	10MHz	64QAM	20000	25RB#0	22.00	22.21	30.00	PASS
BAND4	10MHz	64QAM	20000	25RB#12	21.94	22.15	30.00	PASS
BAND4	10MHz	64QAM	20000	25RB#25	21.92	22.13	30.00	PASS
BAND4	10MHz	64QAM	20000	50RB#0	21.90	22.11	30.00	PASS
BAND4	10MHz	64QAM	20175	1RB#0	22.16	22.37	30.00	PASS
BAND4	10MHz	64QAM	20175	1RB#24	21.89	22.1	30.00	PASS
BAND4	10MHz	64QAM	20175	1RB#49	22.07	22.28	30.00	PASS
BAND4	10MHz	64QAM	20175	25RB#0	20.91	21.12	30.00	PASS
BAND4	10MHz	64QAM	20175	25RB#12	20.89	21.1	30.00	PASS
BAND4	10MHz	64QAM	20175	25RB#25	20.96	21.17	30.00	PASS
BAND4	10MHz	64QAM	20175	50RB#0	20.86	21.07	30.00	PASS
BAND4	10MHz	64QAM	20350	1RB#0	22.18	22.39	30.00	PASS
BAND4	10MHz	64QAM	20350	1RB#24	21.89	22.1	30.00	PASS
BAND4	10MHz	64QAM	20350	1RB#49	22.14	22.35	30.00	PASS
BAND4	10MHz	64QAM	20350	25RB#0	20.87	21.08	30.00	PASS
BAND4	10MHz	64QAM	20350	25RB#12	20.97	21.18	30.00	PASS
BAND4	10MHz	64QAM	20350	25RB#25	20.92	21.13	30.00	PASS
BAND4	10MHz	64QAM	20350	50RB#0	21.02	21.23	30.00	PASS
BAND4	10MHz	16QAM	20000	1RB#0	23.07	23.28	30.00	PASS
BAND4	10MHz	16QAM	20000	1RB#24	22.69	22.9	30.00	PASS
BAND4	10MHz	16QAM	20000	1RB#49	23.13	23.34	30.00	PASS
BAND4	10MHz	16QAM	20000	25RB#0	21.99	22.2	30.00	PASS
BAND4	10MHz	16QAM	20000	25RB#12	21.91	22.12	30.00	PASS
BAND4	10MHz	16QAM	20000	25RB#25	21.93	22.14	30.00	PASS
BAND4	10MHz	16QAM	20000	50RB#0	21.92	22.13	30.00	PASS
BAND4	10MHz	16QAM	20175	1RB#0	23.08	23.29	30.00	PASS

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



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

Report No.: SZEM180700654901

Page: 10 of 86

BAND4	10MHz	16QAM	20175	1RB#24	22.77	22.98	30.00	PASS
BAND4	10MHz	16QAM	20175	1RB#49	23.26	23.47	30.00	PASS
BAND4	10MHz	16QAM	20175	25RB#0	21.85	22.06	30.00	PASS
BAND4	10MHz	16QAM	20175	25RB#12	21.83	22.04	30.00	PASS
BAND4	10MHz	16QAM	20175	25RB#25	21.92	22.13	30.00	PASS
BAND4	10MHz	16QAM	20175	50RB#0	21.82	22.03	30.00	PASS
BAND4	10MHz	16QAM	20350	1RB#0	23.04	23.25	30.00	PASS
BAND4	10MHz	16QAM	20350	1RB#24	22.87	23.08	30.00	PASS
BAND4	10MHz	16QAM	20350	1RB#49	23.16	23.37	30.00	PASS
BAND4	10MHz	16QAM	20350	25RB#0	22.00	22.21	30.00	PASS
BAND4	10MHz	16QAM	20350	25RB#12	21.94	22.15	30.00	PASS
BAND4	10MHz	16QAM	20350	25RB#25	21.87	22.08	30.00	PASS
BAND4	10MHz	16QAM	20350	50RB#0	21.97	22.18	30.00	PASS
BAND4	15MHz	QPSK	20025	1RB#0	23.83	24.04	30.00	PASS
BAND4	15MHz	QPSK	20025	1RB#38	23.87	24.08	30.00	PASS
BAND4	15MHz	QPSK	20025	1RB#74	23.82	24.03	30.00	PASS
BAND4	15MHz	QPSK	20025	36RB#0	22.63	22.84	30.00	PASS
BAND4	15MHz	QPSK	20025	36RB#18	22.35	22.56	30.00	PASS
BAND4	15MHz	QPSK	20025	36RB#39	22.37	22.58	30.00	PASS
BAND4	15MHz	QPSK	20025	75RB#0	22.43	22.64	30.00	PASS
BAND4	15MHz	QPSK	20175	1RB#0	23.76	23.97	30.00	PASS
BAND4	15MHz	QPSK	20175	1RB#38	23.84	24.05	30.00	PASS
BAND4	15MHz	QPSK	20175	1RB#74	23.83	24.04	30.00	PASS
BAND4	15MHz	QPSK	20175	36RB#0	22.37	22.58	30.00	PASS
BAND4	15MHz	QPSK	20175	36RB#18	22.33	22.54	30.00	PASS
BAND4	15MHz	QPSK	20175	36RB#39	22.54	22.75	30.00	PASS
BAND4	15MHz	QPSK	20175	75RB#0	22.35	22.56	30.00	PASS
BAND4	15MHz	QPSK	20325	1RB#0	23.68	23.89	30.00	PASS
BAND4	15MHz	QPSK	20325	1RB#38	23.93	24.14	30.00	PASS
BAND4	15MHz	QPSK	20325	1RB#74	24.01	24.22	30.00	PASS
BAND4	15MHz	QPSK	20325	36RB#0	22.55	22.76	30.00	PASS
BAND4	15MHz	QPSK	20325	36RB#18	22.49	22.7	30.00	PASS
BAND4	15MHz	QPSK	20325	36RB#39	22.40	22.61	30.00	PASS
BAND4	15MHz	QPSK	20325	75RB#0	22.52	22.73	30.00	PASS
BAND4	15MHz	64QAM	20025	1RB#0	22.98	23.19	30.00	PASS
BAND4	15MHz	64QAM	20025	1RB#38	22.94	23.15	30.00	PASS
BAND4	15MHz	64QAM	20025	1RB#74	22.94	23.15	30.00	PASS
BAND4	15MHz	64QAM	20025	36RB#0	21.82	22.03	30.00	PASS
BAND4	15MHz	64QAM	20025	36RB#18	21.78	21.99	30.00	PASS
BAND4	15MHz	64QAM	20025	36RB#39	21.79	22	30.00	PASS
BAND4	15MHz	64QAM	20025	75RB#0	21.92	22.13	30.00	PASS

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



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

Report No.: SZEM180700654901

Page: 11 of 86

BAND4	15MHz	64QAM	20175	1RB#0	21.96	22.17	30.00	PASS
BAND4	15MHz	64QAM	20175	1RB#38	22.13	22.34	30.00	PASS
BAND4	15MHz	64QAM	20175	1RB#74	21.95	22.16	30.00	PASS
BAND4	15MHz	64QAM	20175	36RB#0	20.78	20.99	30.00	PASS
BAND4	15MHz	64QAM	20175	36RB#18	20.87	21.08	30.00	PASS
BAND4	15MHz	64QAM	20175	36RB#39	21.00	21.21	30.00	PASS
BAND4	15MHz	64QAM	20175	75RB#0	20.84	21.05	30.00	PASS
BAND4	15MHz	64QAM	20325	1RB#0	22.17	22.38	30.00	PASS
BAND4	15MHz	64QAM	20325	1RB#38	22.08	22.29	30.00	PASS
BAND4	15MHz	64QAM	20325	1RB#74	22.14	22.35	30.00	PASS
BAND4	15MHz	64QAM	20325	36RB#0	21.07	21.28	30.00	PASS
BAND4	15MHz	64QAM	20325	36RB#18	20.98	21.19	30.00	PASS
BAND4	15MHz	64QAM	20325	36RB#39	20.90	21.11	30.00	PASS
BAND4	15MHz	64QAM	20325	75RB#0	21.02	21.23	30.00	PASS
BAND4	15MHz	16QAM	20025	1RB#0	22.94	23.15	30.00	PASS
BAND4	15MHz	16QAM	20025	1RB#38	23.01	23.22	30.00	PASS
BAND4	15MHz	16QAM	20025	1RB#74	23.02	23.23	30.00	PASS
BAND4	15MHz	16QAM	20025	36RB#0	21.84	22.05	30.00	PASS
BAND4	15MHz	16QAM	20025	36RB#18	21.77	21.98	30.00	PASS
BAND4	15MHz	16QAM	20025	36RB#39	21.83	22.04	30.00	PASS
BAND4	15MHz	16QAM	20025	75RB#0	21.92	22.13	30.00	PASS
BAND4	15MHz	16QAM	20175	1RB#0	22.84	23.05	30.00	PASS
BAND4	15MHz	16QAM	20175	1RB#38	23.06	23.27	30.00	PASS
BAND4	15MHz	16QAM	20175	1RB#74	22.96	23.17	30.00	PASS
BAND4	15MHz	16QAM	20175	36RB#0	21.77	21.98	30.00	PASS
BAND4	15MHz	16QAM	20175	36RB#18	21.83	22.04	30.00	PASS
BAND4	15MHz	16QAM	20175	36RB#39	22.00	22.21	30.00	PASS
BAND4	15MHz	16QAM	20175	75RB#0	21.78	21.99	30.00	PASS
BAND4	15MHz	16QAM	20325	1RB#0	23.07	23.28	30.00	PASS
BAND4	15MHz	16QAM	20325	1RB#38	23.03	23.24	30.00	PASS
BAND4	15MHz	16QAM	20325	1RB#74	23.21	23.42	30.00	PASS
BAND4	15MHz	16QAM	20325	36RB#0	22.02	22.23	30.00	PASS
BAND4	15MHz	16QAM	20325	36RB#18	21.95	22.16	30.00	PASS
BAND4	15MHz	16QAM	20325	36RB#39	21.85	22.06	30.00	PASS
BAND4	15MHz	16QAM	20325	75RB#0	21.95	22.16	30.00	PASS
BAND4	20MHz	QPSK	20050	1RB#0	23.71	23.92	30.00	PASS
BAND4	20MHz	QPSK	20050	1RB#49	23.74	23.95	30.00	PASS
BAND4	20MHz	QPSK	20050	1RB#99	24.18	24.39	30.00	PASS
BAND4	20MHz	QPSK	20050	50RB#0	22.58	22.79	30.00	PASS
BAND4	20MHz	QPSK	20050	50RB#25	22.39	22.6	30.00	PASS
BAND4	20MHz	QPSK	20050	50RB#50	22.57	22.78	30.00	PASS

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



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

Report No.: SZEM180700654901

Page: 12 of 86

BAND4	20MHz	QPSK	20050	100RB#0	22.43	22.64	30.00	PASS
BAND4	20MHz	QPSK	20175	1RB#0	23.48	23.69	30.00	PASS
BAND4	20MHz	QPSK	20175	1RB#49	23.81	24.02	30.00	PASS
BAND4	20MHz	QPSK	20175	1RB#99	23.99	24.2	30.00	PASS
BAND4	20MHz	QPSK	20175	50RB#0	22.34	22.55	30.00	PASS
BAND4	20MHz	QPSK	20175	50RB#25	22.31	22.52	30.00	PASS
BAND4	20MHz	QPSK	20175	50RB#50	22.51	22.72	30.00	PASS
BAND4	20MHz	QPSK	20175	100RB#0	22.33	22.54	30.00	PASS
BAND4	20MHz	QPSK	20300	1RB#0	23.46	23.67	30.00	PASS
BAND4	20MHz	QPSK	20300	1RB#49	23.74	23.95	30.00	PASS
BAND4	20MHz	QPSK	20300	1RB#99	23.99	24.2	30.00	PASS
BAND4	20MHz	QPSK	20300	50RB#0	22.58	22.79	30.00	PASS
BAND4	20MHz	QPSK	20300	50RB#25	22.51	22.72	30.00	PASS
BAND4	20MHz	QPSK	20300	50RB#50	22.45	22.66	30.00	PASS
BAND4	20MHz	QPSK	20300	100RB#0	22.42	22.63	30.00	PASS
BAND4	20MHz	64QAM	20050	1RB#0	22.52	22.73	30.00	PASS
BAND4	20MHz	64QAM	20050	1RB#49	22.68	22.89	30.00	PASS
BAND4	20MHz	64QAM	20050	1RB#99	23.22	23.43	30.00	PASS
BAND4	20MHz	64QAM	20050	50RB#0	21.97	22.18	30.00	PASS
BAND4	20MHz	64QAM	20050	50RB#25	21.77	21.98	30.00	PASS
BAND4	20MHz	64QAM	20050	50RB#50	21.98	22.19	30.00	PASS
BAND4	20MHz	64QAM	20050	100RB#0	21.86	22.07	30.00	PASS
BAND4	20MHz	64QAM	20175	1RB#0	21.59	21.8	30.00	PASS
BAND4	20MHz	64QAM	20175	1RB#49	21.82	22.03	30.00	PASS
BAND4	20MHz	64QAM	20175	1RB#99	22.24	22.45	30.00	PASS
BAND4	20MHz	64QAM	20175	50RB#0	20.83	21.04	30.00	PASS
BAND4	20MHz	64QAM	20175	50RB#25	20.79	21	30.00	PASS
BAND4	20MHz	64QAM	20175	50RB#50	21.01	21.22	30.00	PASS
BAND4	20MHz	64QAM	20175	100RB#0	20.83	21.04	30.00	PASS
BAND4	20MHz	64QAM	20300	1RB#0	21.59	21.8	30.00	PASS
BAND4	20MHz	64QAM	20300	1RB#49	21.82	22.03	30.00	PASS
BAND4	20MHz	64QAM	20300	1RB#99	22.37	22.58	30.00	PASS
BAND4	20MHz	64QAM	20300	50RB#0	20.83	21.04	30.00	PASS
BAND4	20MHz	64QAM	20300	50RB#25	20.93	21.14	30.00	PASS
BAND4	20MHz	64QAM	20300	50RB#50	20.93	21.14	30.00	PASS
BAND4	20MHz	64QAM	20300	100RB#0	20.89	21.1	30.00	PASS
BAND4	20MHz	16QAM	20050	1RB#0	22.87	23.08	30.00	PASS
BAND4	20MHz	16QAM	20050	1RB#49	22.73	22.94	30.00	PASS
BAND4	20MHz	16QAM	20050	1RB#99	23.34	23.55	30.00	PASS
BAND4	20MHz	16QAM	20050	50RB#0	22.00	22.21	30.00	PASS
BAND4	20MHz	16QAM	20050	50RB#25	21.79	22	30.00	PASS

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



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

Report No.: SZEM180700654901

Page: 13 of 86

BAND4	20MHz	16QAM	20050	50RB#50	21.97	22.18	30.00	PASS
BAND4	20MHz	16QAM	20050	100RB#0	21.84	22.05	30.00	PASS
BAND4	20MHz	16QAM	20175	1RB#0	22.69	22.9	30.00	PASS
BAND4	20MHz	16QAM	20175	1RB#49	22.75	22.96	30.00	PASS
BAND4	20MHz	16QAM	20175	1RB#99	23.11	23.32	30.00	PASS
BAND4	20MHz	16QAM	20175	50RB#0	21.78	21.99	30.00	PASS
BAND4	20MHz	16QAM	20175	50RB#25	21.77	21.98	30.00	PASS
BAND4	20MHz	16QAM	20175	50RB#50	21.96	22.17	30.00	PASS
BAND4	20MHz	16QAM	20175	100RB#0	21.73	21.94	30.00	PASS
BAND4	20MHz	16QAM	20300	1RB#0	22.61	22.82	30.00	PASS
BAND4	20MHz	16QAM	20300	1RB#49	22.65	22.86	30.00	PASS
BAND4	20MHz	16QAM	20300	1RB#99	23.36	23.57	30.00	PASS
BAND4	20MHz	16QAM	20300	50RB#0	22.05	22.26	30.00	PASS
BAND4	20MHz	16QAM	20300	50RB#25	21.96	22.17	30.00	PASS
BAND4	20MHz	16QAM	20300	50RB#50	21.90	22.11	30.00	PASS
BAND4	20MHz	16QAM	20300	100RB#0	21.85	22.06	30.00	PASS

Note:

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

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

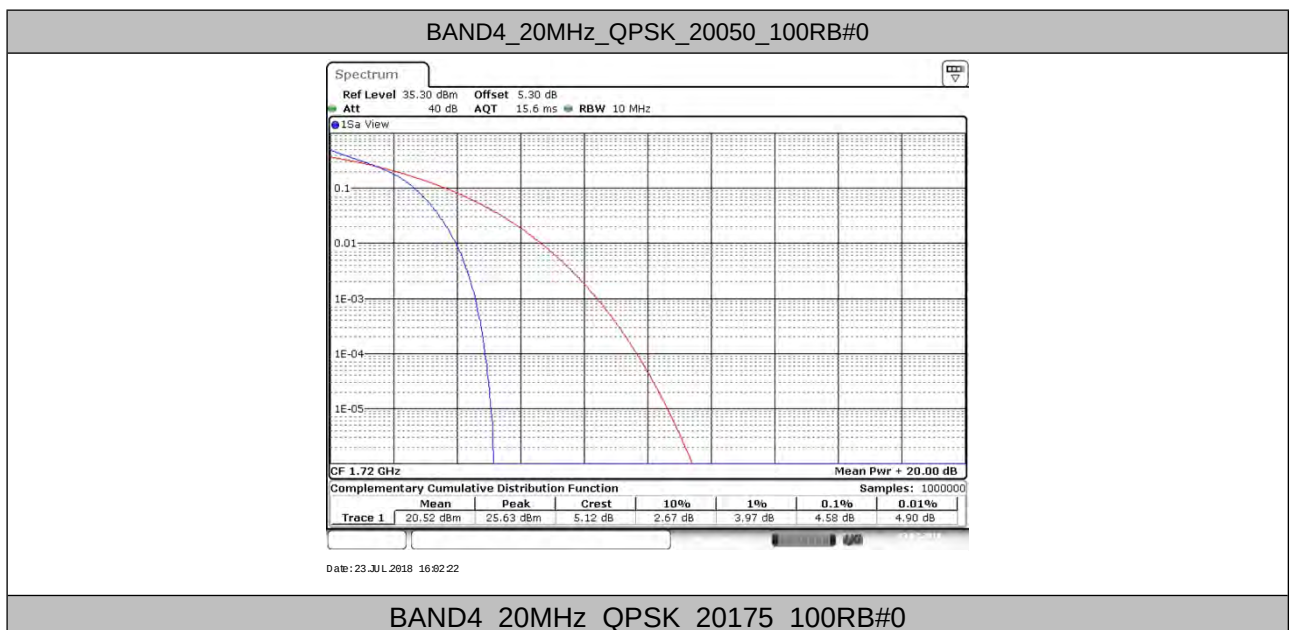


2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND4	20MHz	QPSK	20050	100RB#0	4.58	13	PASS
BAND4	20MHz	QPSK	20175	100RB#0	4.14	13	PASS
BAND4	20MHz	QPSK	20300	100RB#0	4.00	13	PASS
BAND4	20MHz	64QAM	20050	100RB#0	5.91	13	PASS
BAND4	20MHz	64QAM	20175	100RB#0	6.03	13	PASS
BAND4	20MHz	64QAM	20300	100RB#0	5.94	13	PASS
BAND4	20MHz	16QAM	20050	100RB#0	5.94	13	PASS
BAND4	20MHz	16QAM	20175	100RB#0	5.68	13	PASS
BAND4	20MHz	16QAM	20300	100RB#0	5.57	13	PASS

2.2. Test Plots

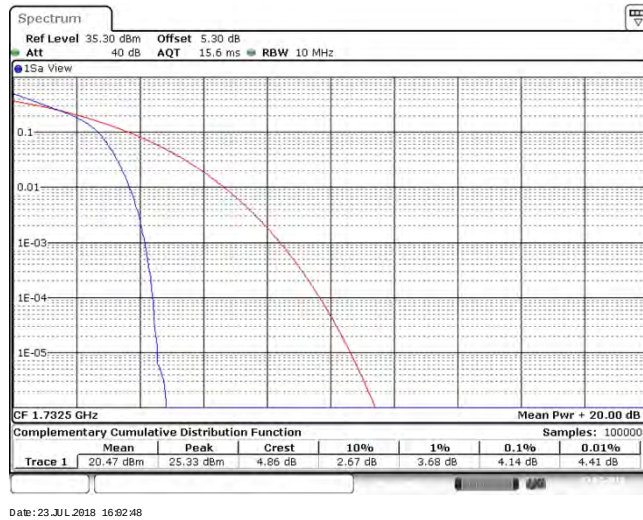




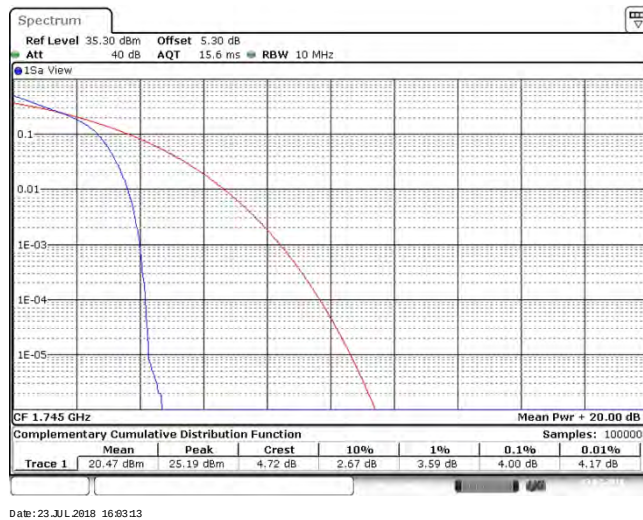
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM180700654901

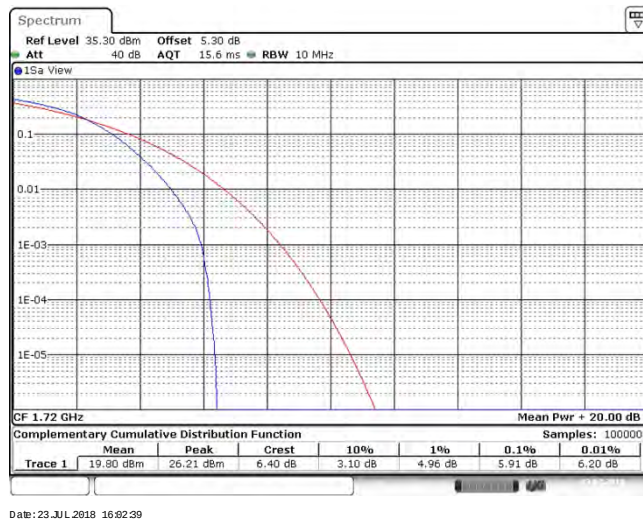
Page: 15 of 86



BAND4_20MHz_QPSK_20300_100RB#0



BAND4_20MHz_64QAM_20050_100RB#0



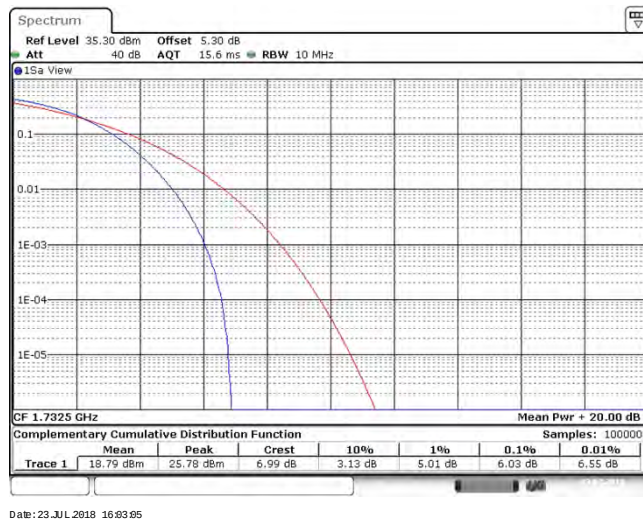
BAND4_20MHz_64QAM_20175_100RB#0



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

Report No.: SZEM180700654901

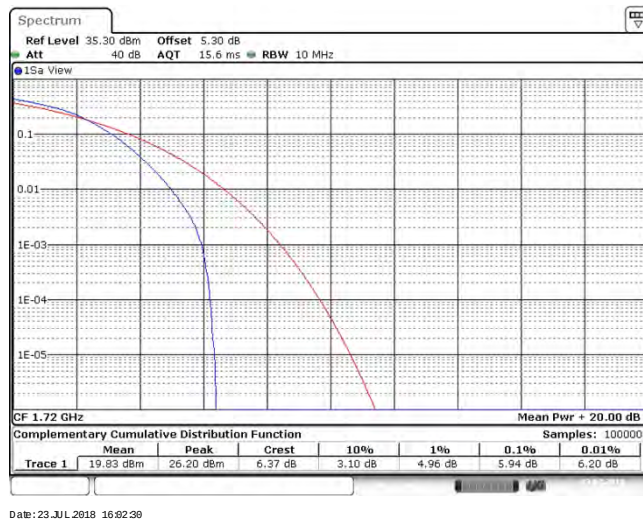
Page: 16 of 86



BAND4_20MHz_64QAM_20300_100RB#0



BAND4_20MHz_16QAM_20050_100RB#0



BAND4_20MHz_16QAM_20175_100RB#0



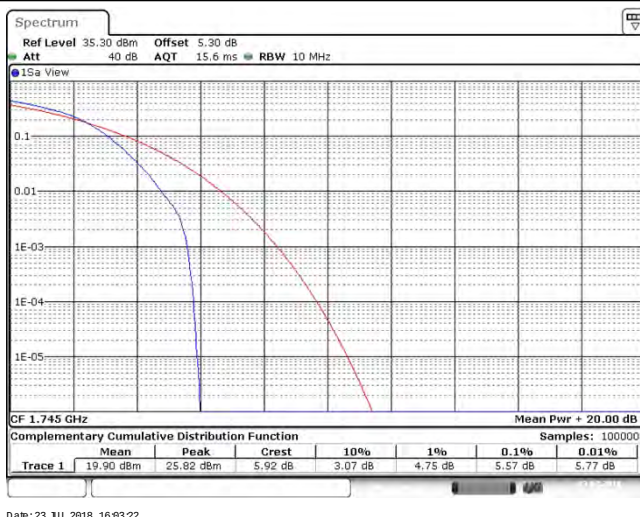
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM180700654901

Page: 17 of 86



BAND4_20MHz_16QAM_20300_100RB#0



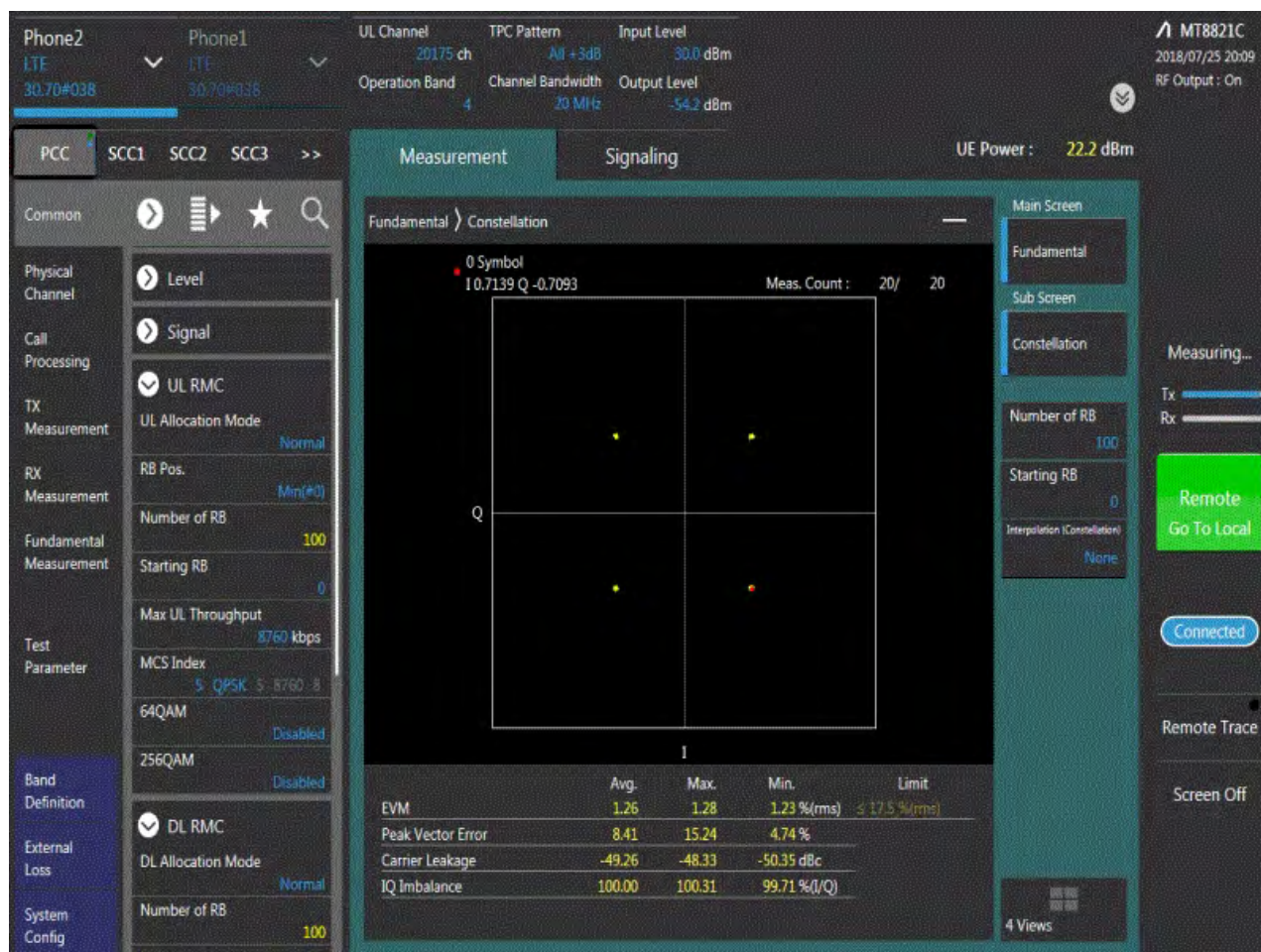


3. Modulation Characteristics

3.1. Test BAND = LTE BAND4

3.1.1. Test Mode = LTE /TM1 20MHz

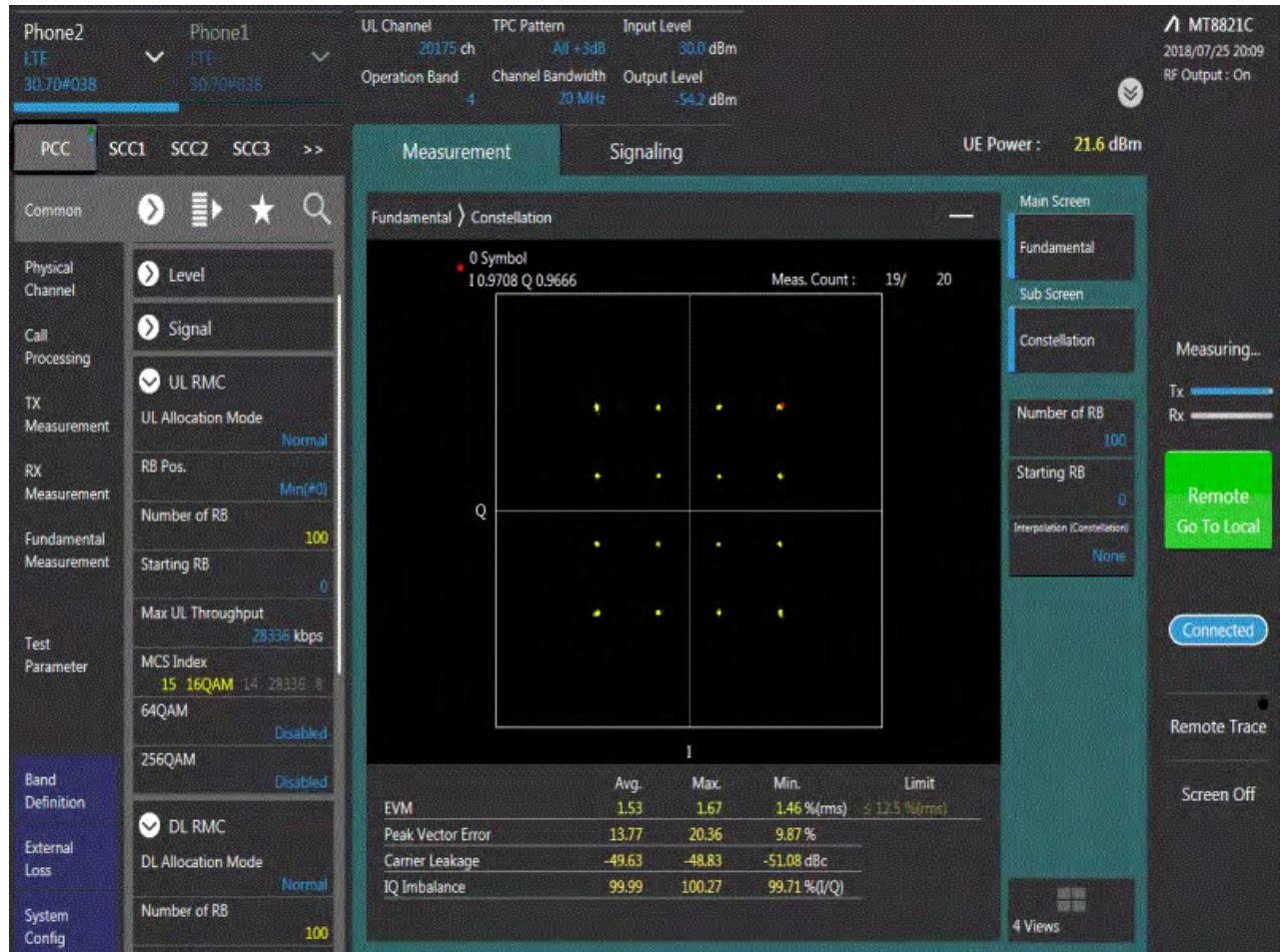
3.1.1.1. Test Channel = MCH





3.1.2. Test Mode = LTE /TM2 20MHz

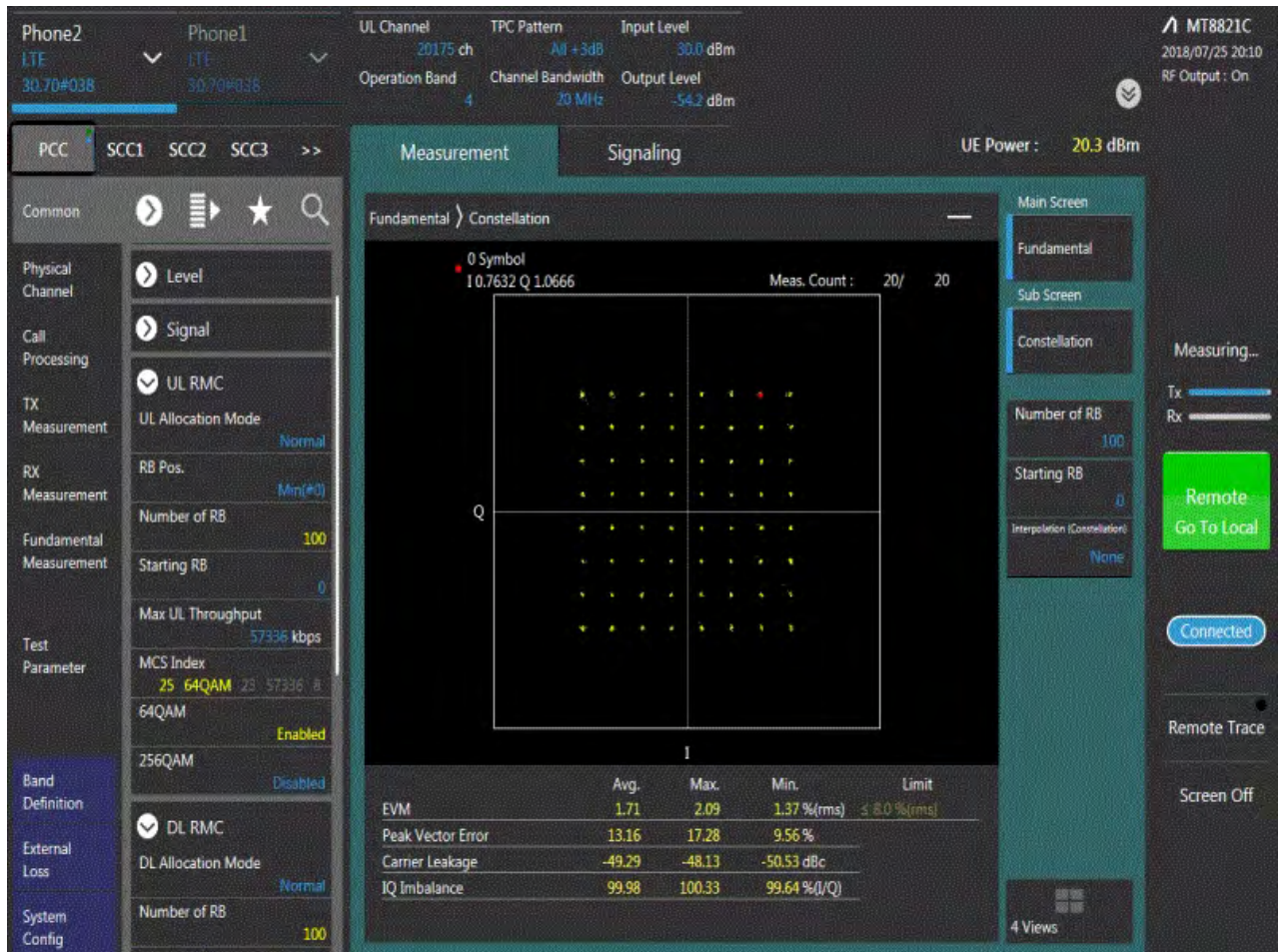
3.1.2.1. Test Channel = MCH





3.1.1. Test Mode = LTE /TM3 20MHz

3.1.1.1. Test Channel = MCH





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	1.100	1.245	PASS
BAND4	1.4MHz	QPSK	20175	6RB#0	1.097	1.242	PASS
BAND4	1.4MHz	QPSK	20393	6RB#0	1.097	1.248	PASS
BAND4	1.4MHz	64QAM	19957	6RB#0	1.097	1.248	PASS
BAND4	1.4MHz	64QAM	20175	6RB#0	1.097	1.242	PASS
BAND4	1.4MHz	64QAM	20393	6RB#0	1.094	1.242	PASS
BAND4	1.4MHz	16QAM	19957	6RB#0	1.094	1.248	PASS
BAND4	1.4MHz	16QAM	20175	6RB#0	1.091	1.245	PASS
BAND4	1.4MHz	16QAM	20393	6RB#0	1.094	1.251	PASS
BAND4	3MHz	QPSK	19965	15RB#0	2.697	2.988	PASS
BAND4	3MHz	QPSK	20175	15RB#0	2.697	2.970	PASS
BAND4	3MHz	QPSK	20385	15RB#0	2.697	2.988	PASS
BAND4	3MHz	64QAM	19965	15RB#0	2.697	2.970	PASS
BAND4	3MHz	64QAM	20175	15RB#0	2.697	2.964	PASS
BAND4	3MHz	64QAM	20385	15RB#0	2.703	2.982	PASS
BAND4	3MHz	16QAM	19965	15RB#0	2.697	2.982	PASS
BAND4	3MHz	16QAM	20175	15RB#0	2.691	2.964	PASS
BAND4	3MHz	16QAM	20385	15RB#0	2.697	2.970	PASS
BAND4	5MHz	QPSK	19975	25RB#0	4.476	4.910	PASS
BAND4	5MHz	QPSK	20175	25RB#0	4.466	4.900	PASS
BAND4	5MHz	QPSK	20375	25RB#0	4.476	4.900	PASS
BAND4	5MHz	64QAM	19975	25RB#0	4.476	4.900	PASS
BAND4	5MHz	64QAM	20175	25RB#0	4.486	4.920	PASS
BAND4	5MHz	64QAM	20375	25RB#0	4.486	4.930	PASS
BAND4	5MHz	16QAM	19975	25RB#0	4.476	4.910	PASS
BAND4	5MHz	16QAM	20175	25RB#0	4.476	4.910	PASS
BAND4	5MHz	16QAM	20375	25RB#0	4.476	4.910	PASS
BAND4	10MHz	QPSK	20000	50RB#0	8.931	9.800	PASS
BAND4	10MHz	QPSK	20175	50RB#0	8.951	9.800	PASS
BAND4	10MHz	QPSK	20350	50RB#0	8.931	9.800	PASS
BAND4	10MHz	64QAM	20000	50RB#0	8.951	9.800	PASS
BAND4	10MHz	64QAM	20175	50RB#0	8.951	9.800	PASS
BAND4	10MHz	64QAM	20350	50RB#0	8.951	9.760	PASS



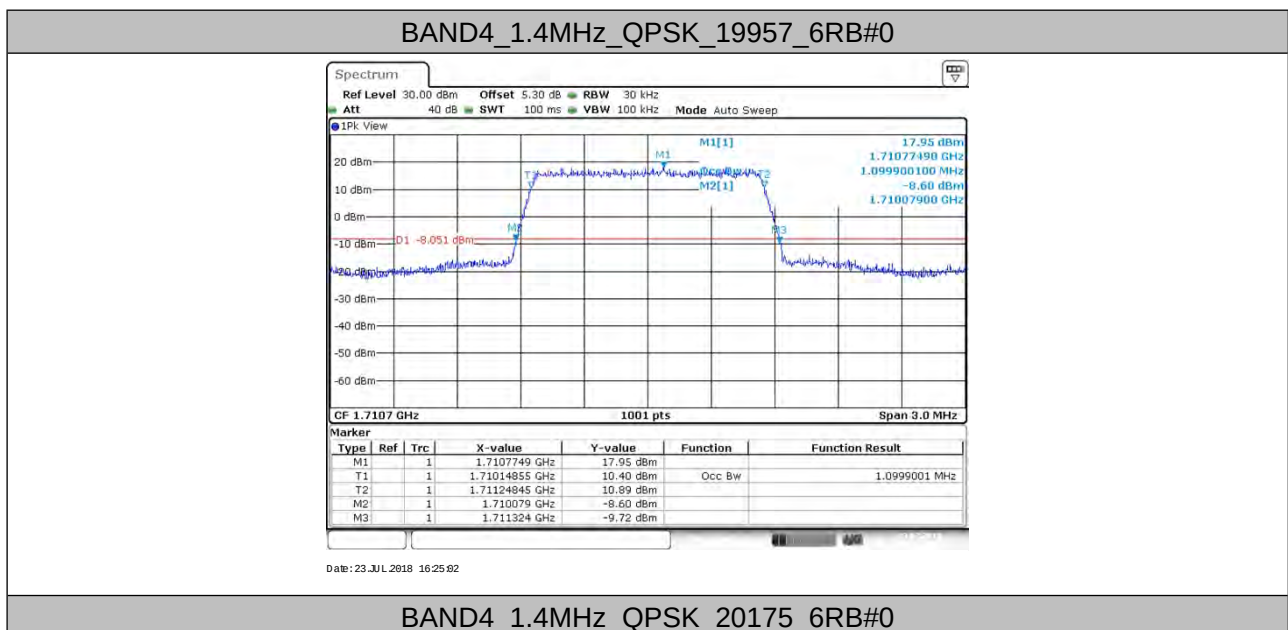
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM180700654901

Page: 22 of 86

BAND4	10MHz	16QAM	20000	50RB#0	8.931	9.760	PASS
BAND4	10MHz	16QAM	20175	50RB#0	8.951	9.800	PASS
BAND4	10MHz	16QAM	20350	50RB#0	8.971	9.760	PASS
BAND4	15MHz	QPSK	20025	75RB#0	13.487	15.030	PASS
BAND4	15MHz	QPSK	20175	75RB#0	13.516	15.030	PASS
BAND4	15MHz	QPSK	20325	75RB#0	13.457	15.090	PASS
BAND4	15MHz	64QAM	20025	75RB#0	13.516	15.030	PASS
BAND4	15MHz	64QAM	20175	75RB#0	13.457	14.970	PASS
BAND4	15MHz	64QAM	20325	75RB#0	13.516	15.090	PASS
BAND4	15MHz	16QAM	20025	75RB#0	13.487	15.000	PASS
BAND4	15MHz	16QAM	20175	75RB#0	13.487	14.820	PASS
BAND4	15MHz	16QAM	20325	75RB#0	13.516	15.030	PASS
BAND4	20MHz	QPSK	20050	100RB#0	17.942	19.760	PASS
BAND4	20MHz	QPSK	20175	100RB#0	17.942	19.760	PASS
BAND4	20MHz	QPSK	20300	100RB#0	17.902	19.720	PASS
BAND4	20MHz	64QAM	20050	100RB#0	17.942	19.800	PASS
BAND4	20MHz	64QAM	20175	100RB#0	17.942	19.680	PASS
BAND4	20MHz	64QAM	20300	100RB#0	17.942	19.800	PASS
BAND4	20MHz	16QAM	20050	100RB#0	17.982	19.760	PASS
BAND4	20MHz	16QAM	20175	100RB#0	17.942	19.760	PASS
BAND4	20MHz	16QAM	20300	100RB#0	17.982	19.760	PASS

4.2. Test Plots

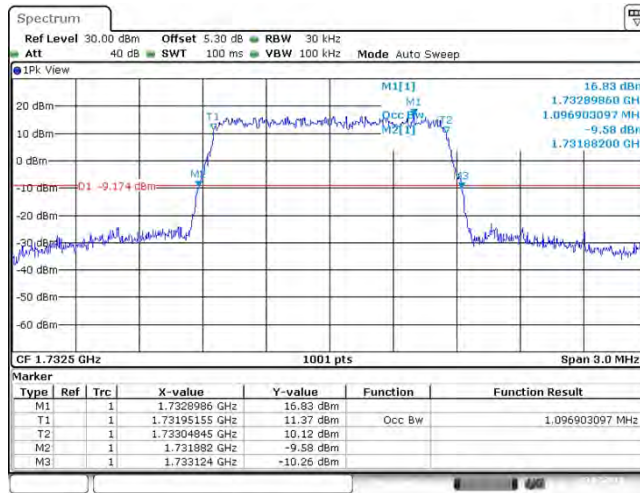




SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

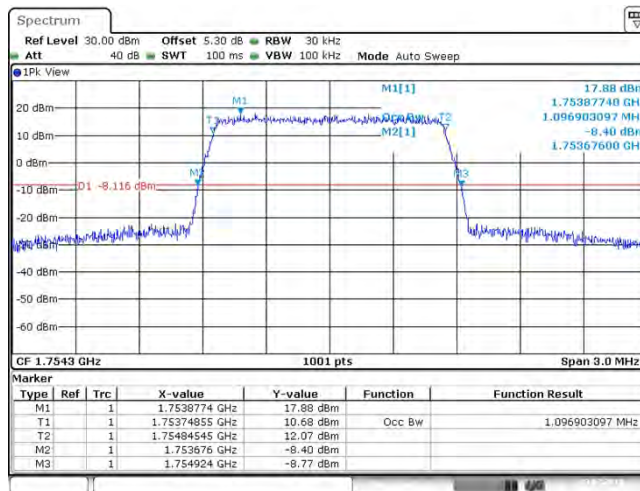
Report No.: SZEM180700654901

Page: 23 of 86



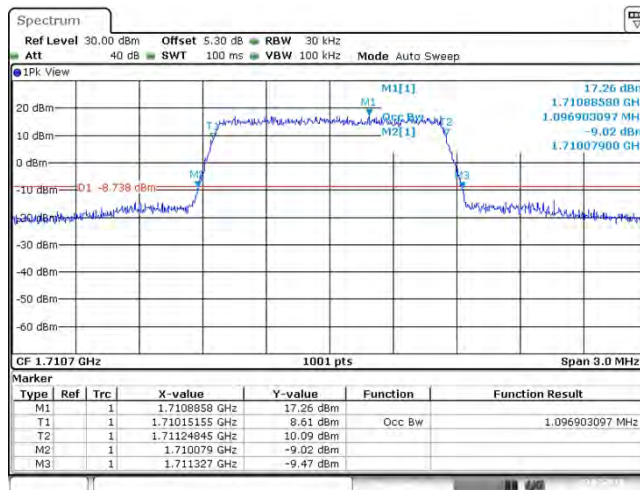
Date: 23 JUL 2018 16:25:41

BAND4_1.4MHz_QPSK_20393_6RB#0



Date: 23 JUL 2018 16:26:19

BAND4_1.4MHz_64QAM_19957_6RB#0



Date: 23 JUL 2018 16:25:28

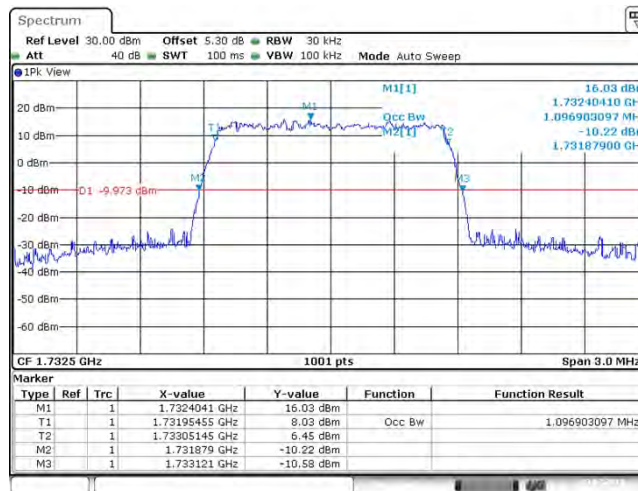
BAND4_1.4MHz_64QAM_20175_6RB#0



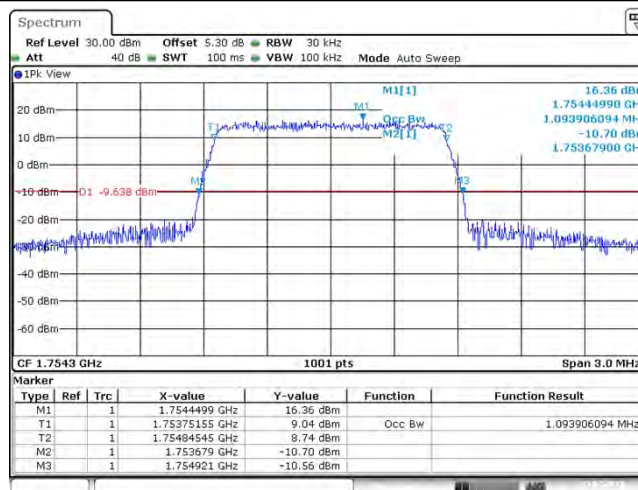
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM180700654901

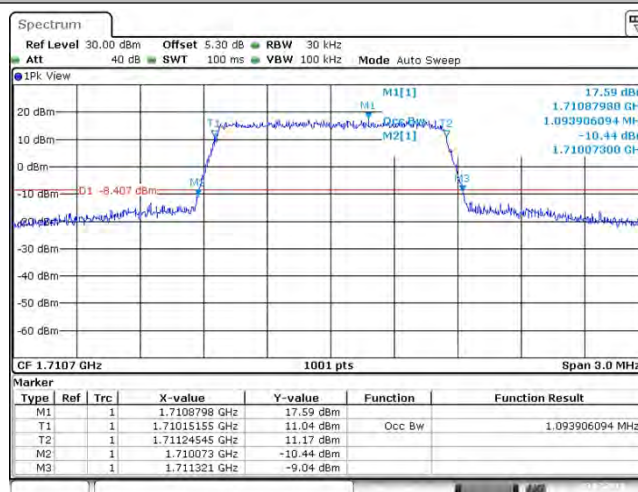
Page: 24 of 86



BAND4_1.4MHz_64QAM_20393_6RB#0



BAND4_1.4MHz_16QAM_19957_6RB#0



BAND4_1.4MHz_16QAM_20175_6RB#0

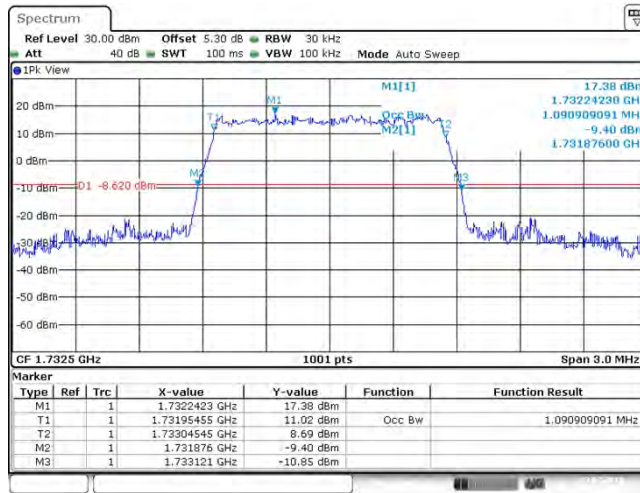
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>.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



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

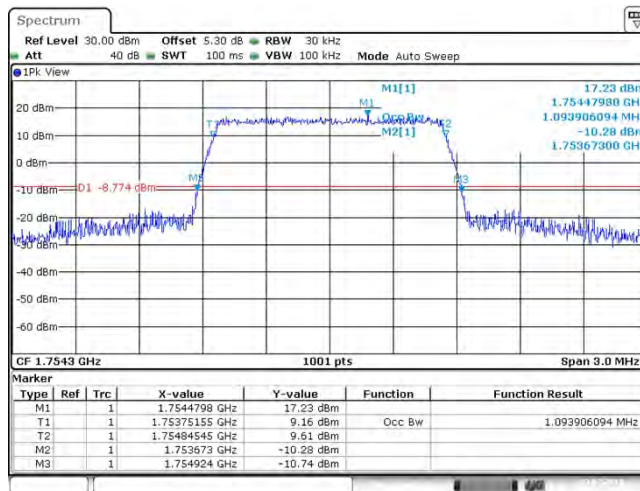
Report No.: SZEM180700654901

Page: 25 of 86



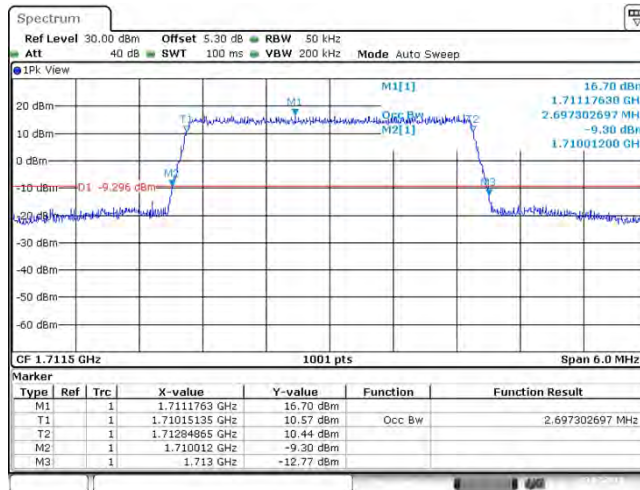
Date: 23.JUL 2018 16:25:53

BAND4_1.4MHz_16QAM_20393_6RB#0



Date: 23.JUL 2018 16:26:32

BAND4_3MHz_QPSK_19965_15RB#0



Date: 23.JUL 2018 16:27:83

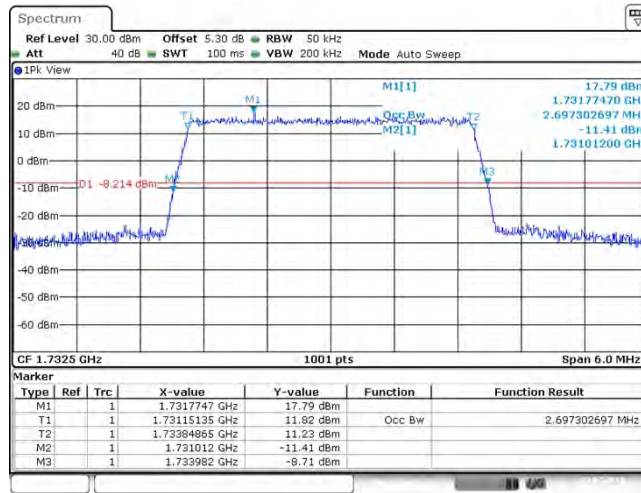
BAND4_3MHz_QPSK_20175_15RB#0



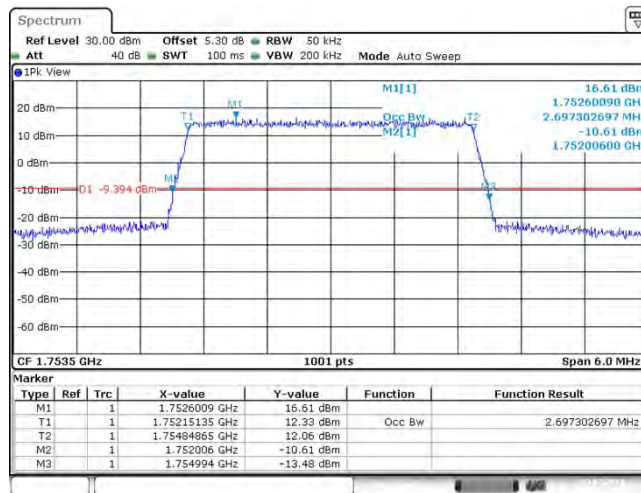
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM180700654901

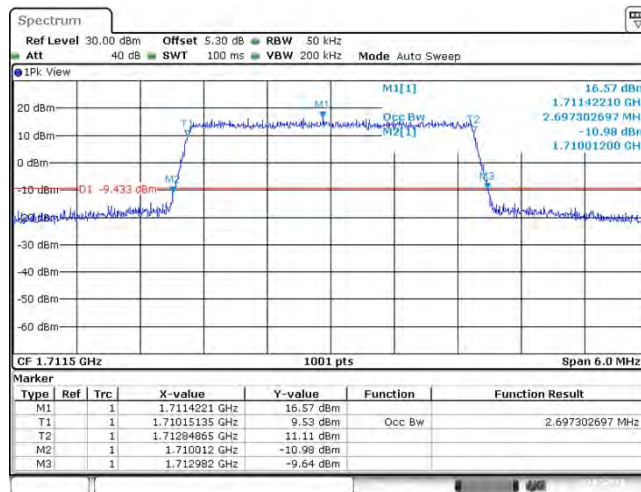
Page: 26 of 86



BAND4_3MHz_QPSK_20385_15RB#0



BAND4_3MHz_64QAM_19965_15RB#0



BAND4_3MHz_64QAM_20175_15RB#0

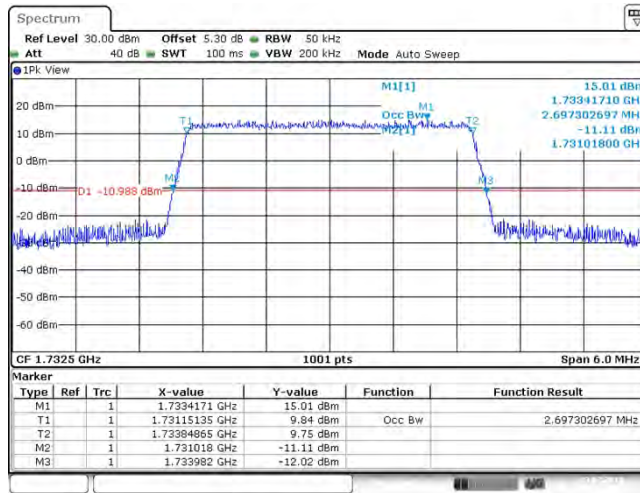
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>.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



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

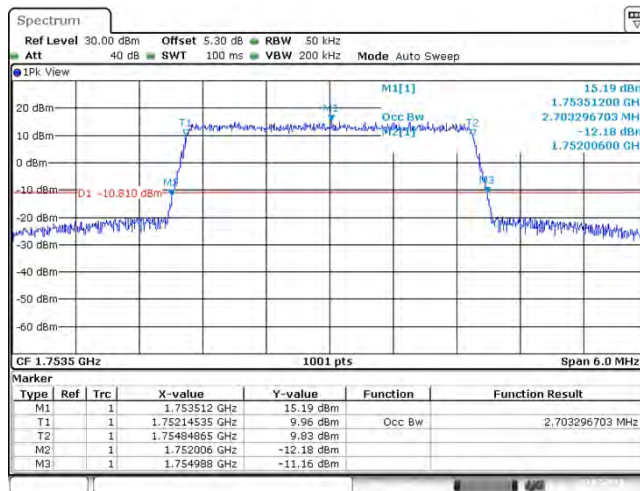
Report No.: SZEM180700654901

Page: 27 of 86



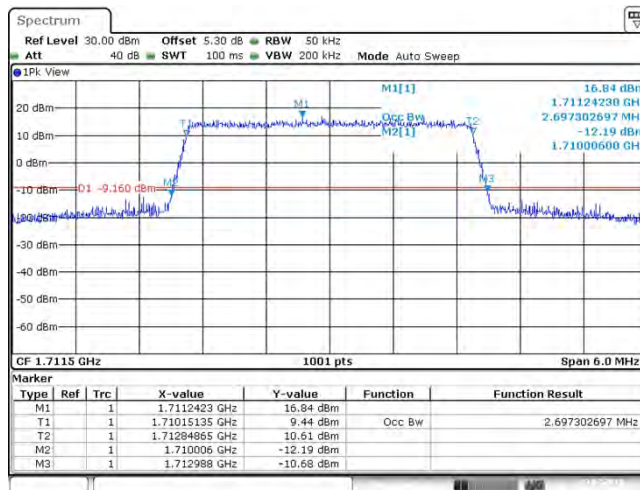
Date: 23 JUL 2018 16:28:97

BAND4_3MHz_64QAM_20385_15RB#0



Date: 23 JUL 2018 16:28:46

BAND4_3MHz_16QAM_19965_15RB#0



Date: 23 JUL 2018 16:27:46

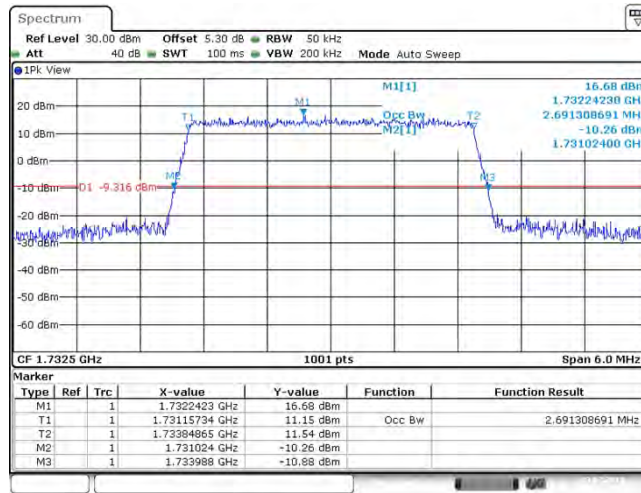
BAND4_3MHz_16QAM_20175_15RB#0



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

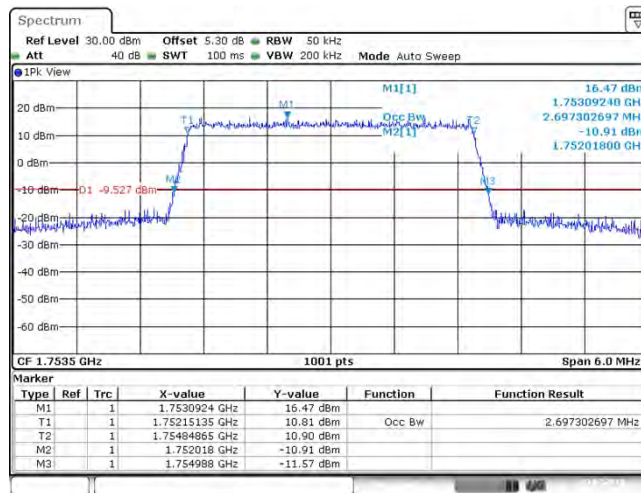
Report No.: SZEM180700654901

Page: 28 of 86



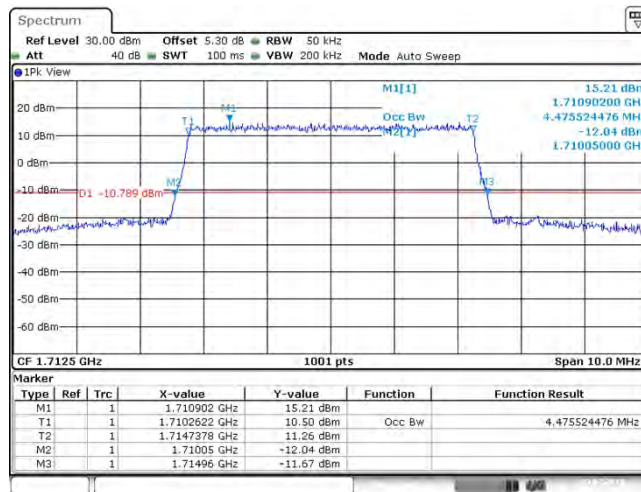
Date: 23 JUL 2018 16:27:54

BAND4_3MHz_16QAM_20385_15RB#0



Date: 23 JUL 2018 16:28:33

BAND4_5MHz_QPSK_19975_25RB#0



Date: 23 JUL 2018 16:29:11

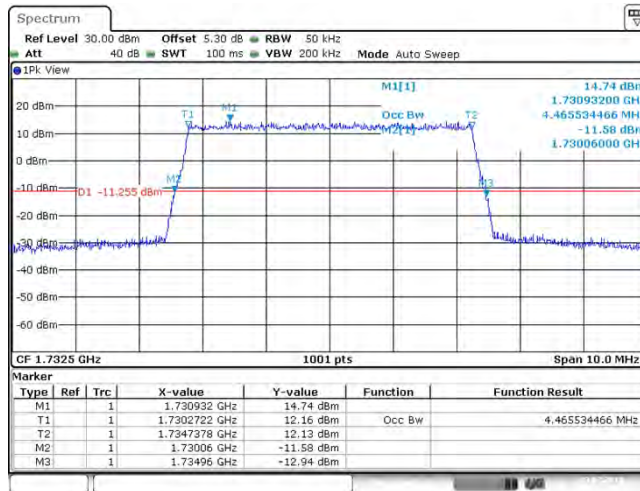
BAND4_5MHz_QPSK_20175_25RB#0



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

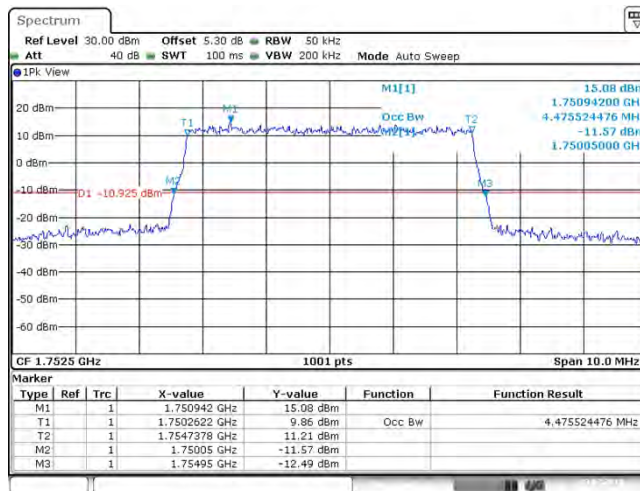
Report No.: SZEM180700654901

Page: 29 of 86



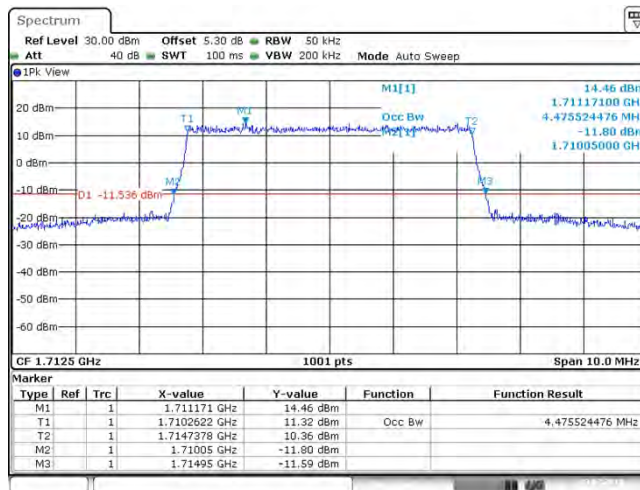
Date: 23 JUL 2018 16:39:11

BAND4_5MHz_QPSK_20375_25RB#0



Date: 23 JUL 2018 16:31:11

BAND4_5MHz_64QAM_19975_25RB#0



Date: 23 JUL 2018 16:29:58

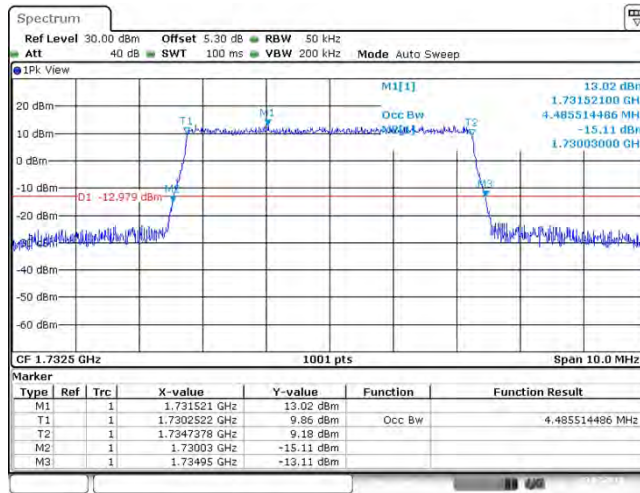
BAND4_5MHz_64QAM_20175_25RB#0



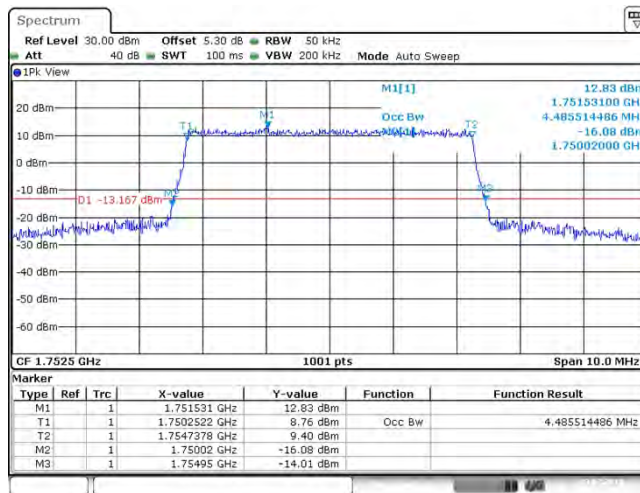
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM180700654901

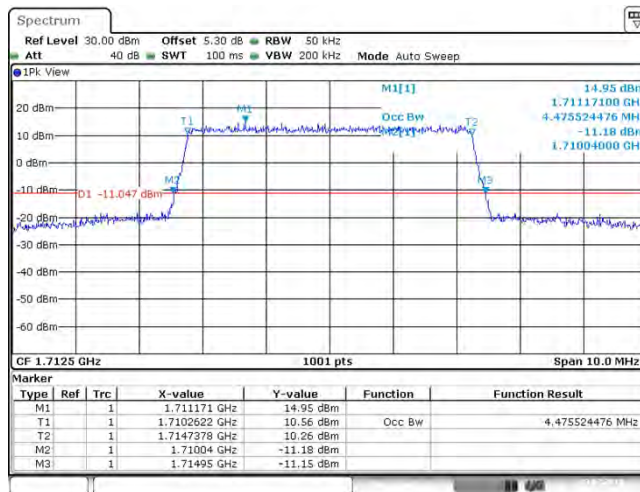
Page: 30 of 86



BAND4_5MHz_64QAM_20375_25RB#0



BAND4_5MHz_16QAM_19975_25RB#0



BAND4_5MHz_16QAM_20175_25RB#0

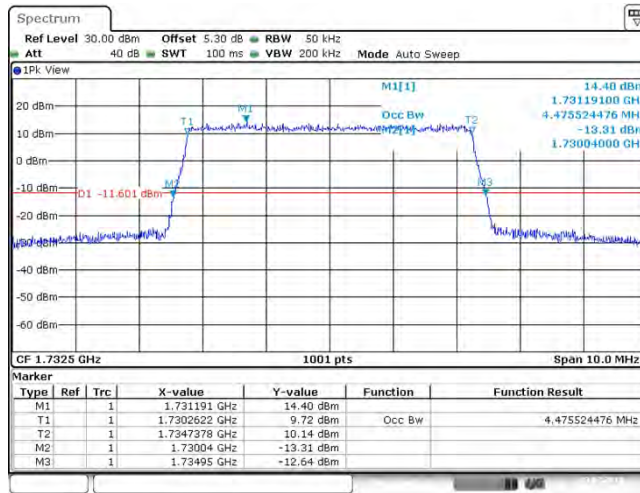
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>.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



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

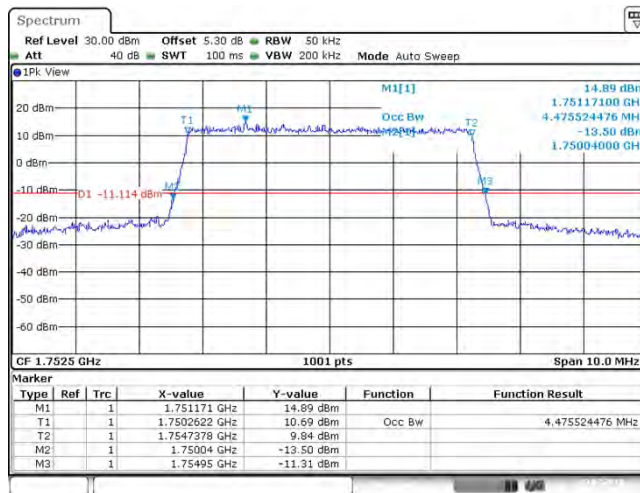
Report No.: SZEM180700654901

Page: 31 of 86



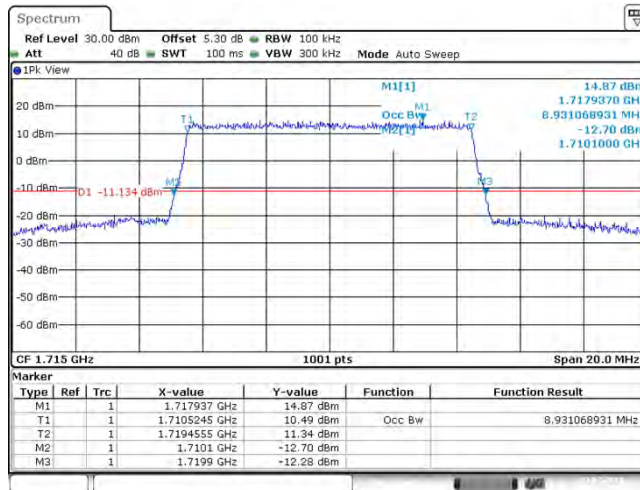
Date: 23 JUL 2018 16:39:31

BAND4_5MHz_16QAM_20375_25RB#0



Date: 23 JUL 2018 16:31:31

BAND4_10MHz_QPSK_20000_50RB#0



Date: 23 JUL 2018 16:32:09

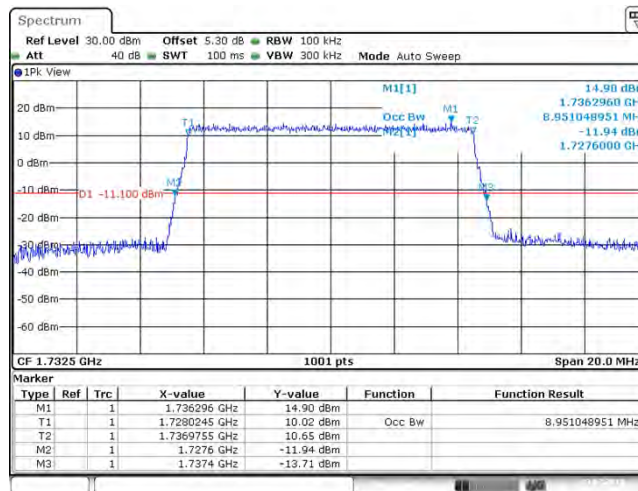
BAND4_10MHz_QPSK_20175_50RB#0



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

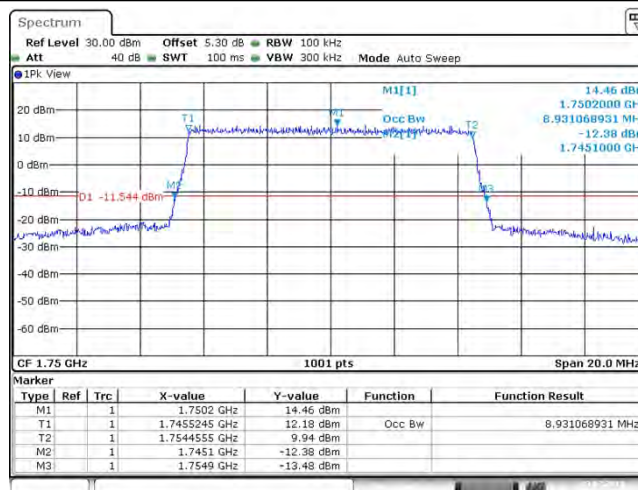
Report No.: SZEM180700654901

Page: 32 of 86



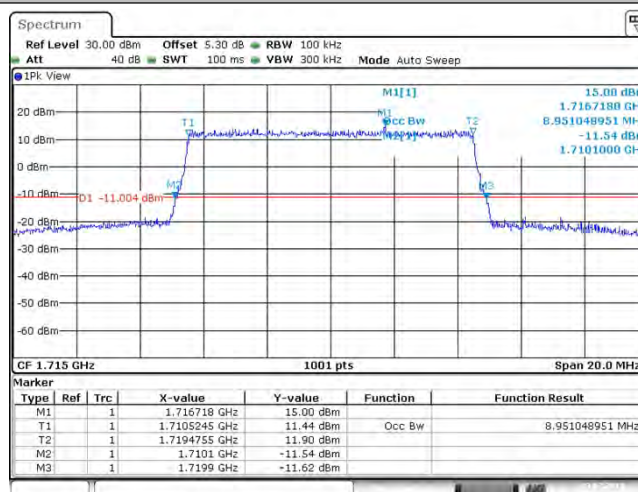
Date: 23 JUL 2018 16:32:48

BAND4_10MHz_QPSK_20350_50RB#0



Date: 23 JUL 2018 16:33:27

BAND4_10MHz_64QAM_20000_50RB#0



Date: 23 JUL 2018 16:32:35

BAND4_10MHz_64QAM_20175_50RB#0

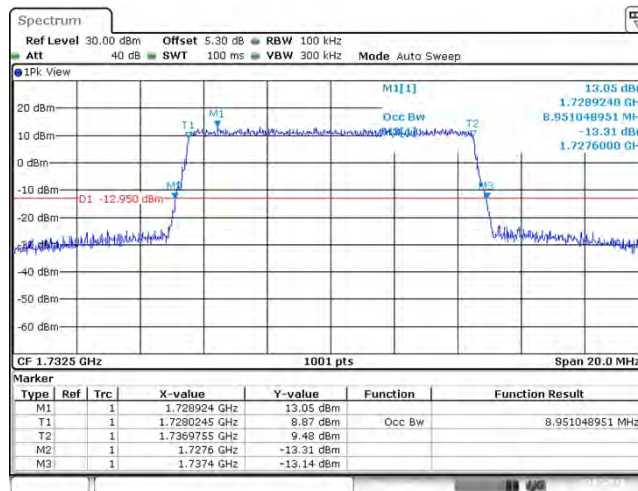
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>.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



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

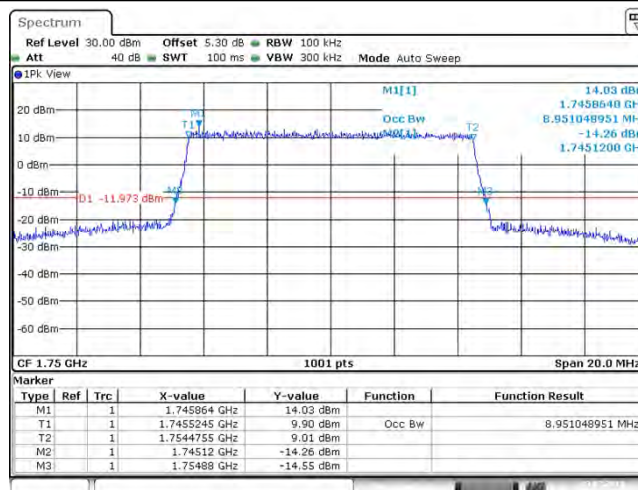
Report No.: SZEM180700654901

Page: 33 of 86



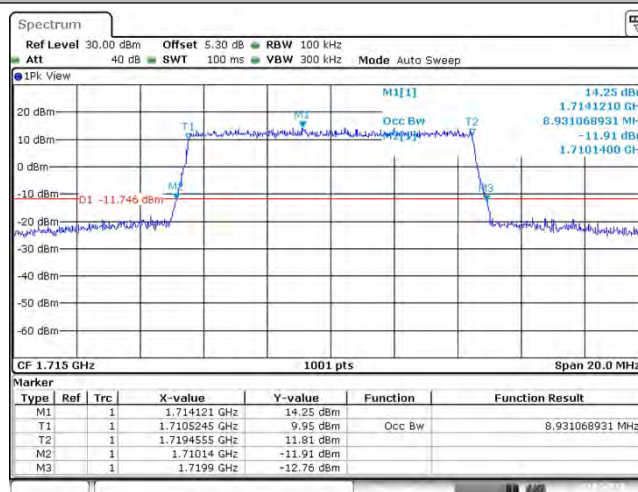
Date: 23 JUL 2018 16:33:14

BAND4_10MHz_64QAM_20350_50RB#0



Date: 23 JUL 2018 16:46:29

BAND4_10MHz_16QAM_20000_50RB#0



Date: 23 JUL 2018 16:32:22

BAND4_10MHz_16QAM_20175_50RB#0

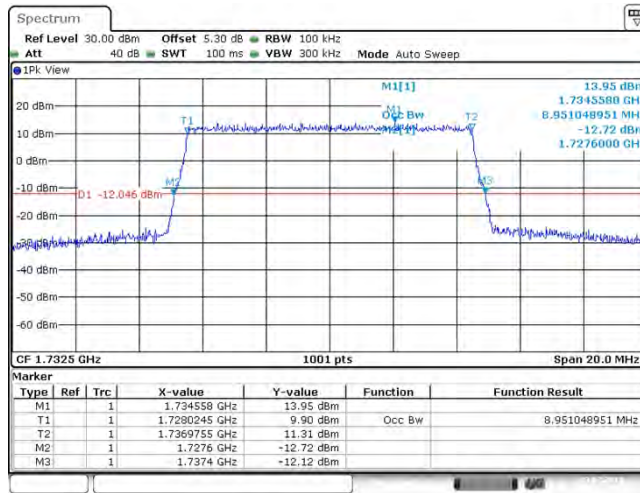
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>.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



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

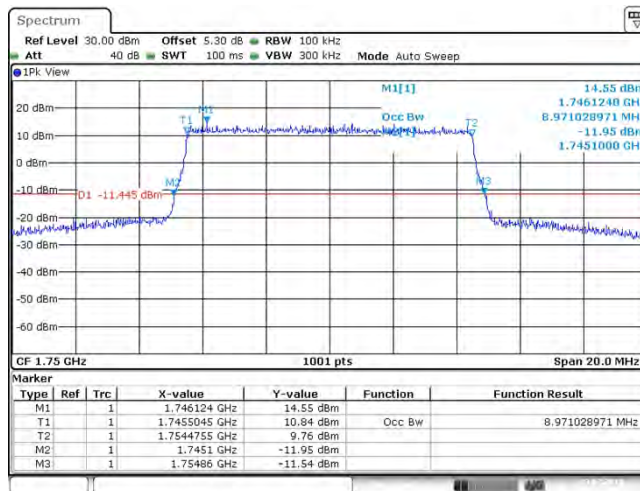
Report No.: SZEM180700654901

Page: 34 of 86



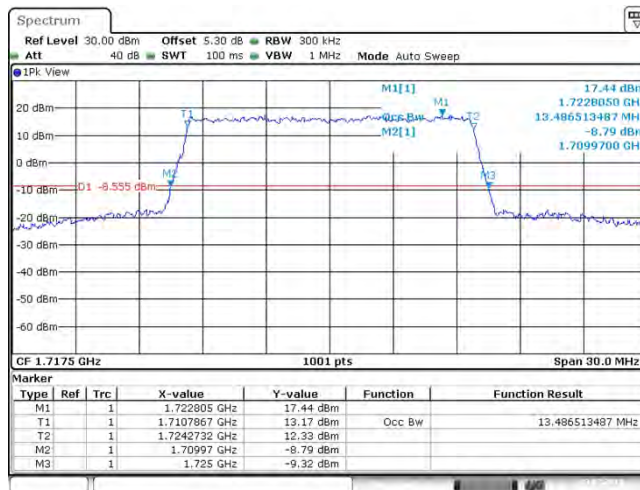
Date: 23 JUL 2018 16:33:01

BAND4_10MHz_16QAM_20350_50RB#0



Date: 23 JUL 2018 16:33:40

BAND4_15MHz_QPSK_20025_75RB#0



Date: 23 JUL 2018 16:46:38

BAND4_15MHz_QPSK_20175_75RB#0

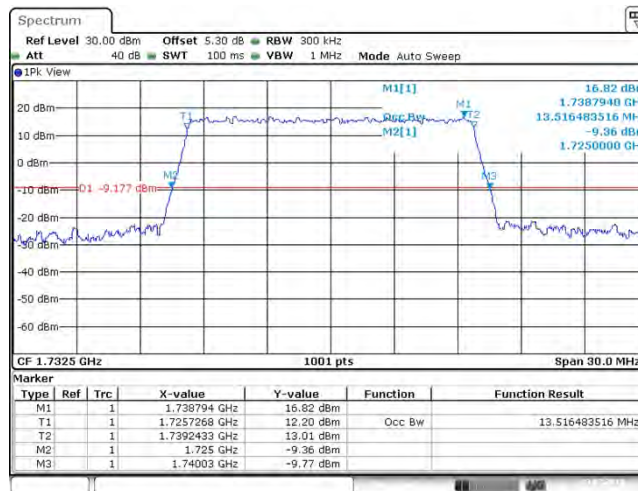
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>.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



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

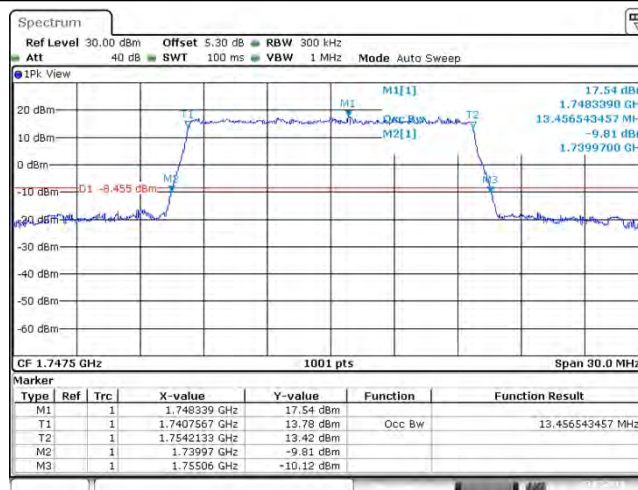
Report No.: SZEM180700654901

Page: 35 of 86



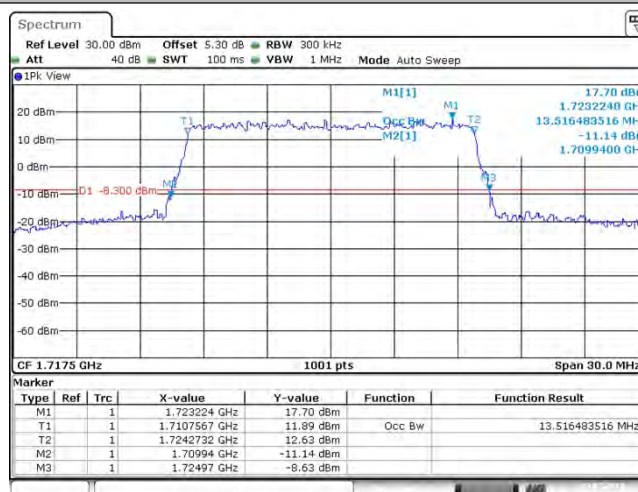
Date: 23 JUL 2018 16:47:16

BAND4_15MHz_QPSK_20325_75RB#0



Date: 23 JUL 2018 16:47:54

BAND4_15MHz_64QAM_20025_75RB#0



Date: 23 JUL 2018 16:47:83

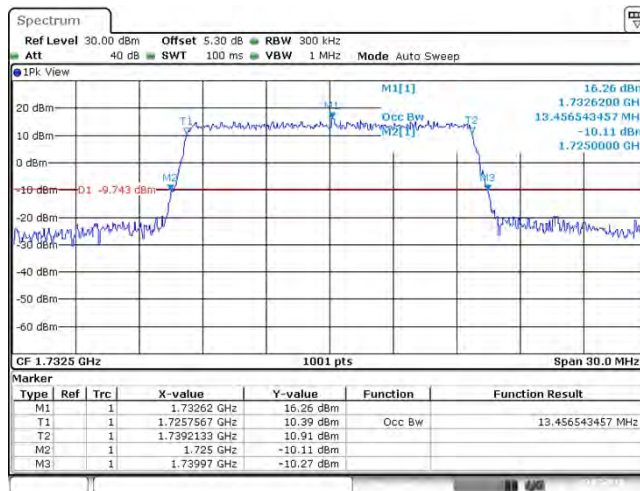
BAND4_15MHz_64QAM_20175_75RB#0



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

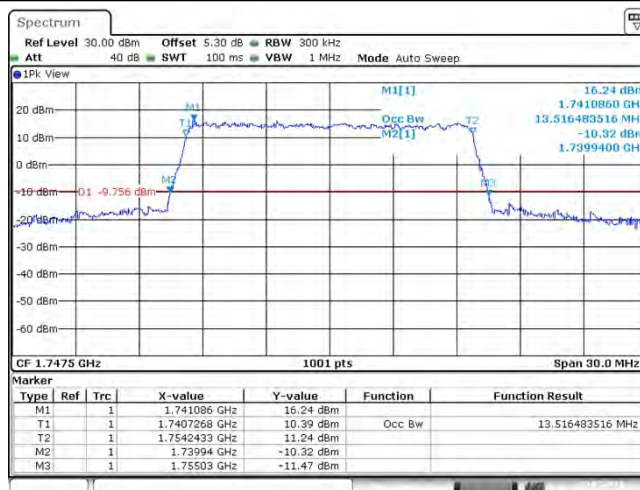
Report No.: SZEM180700654901

Page: 36 of 86



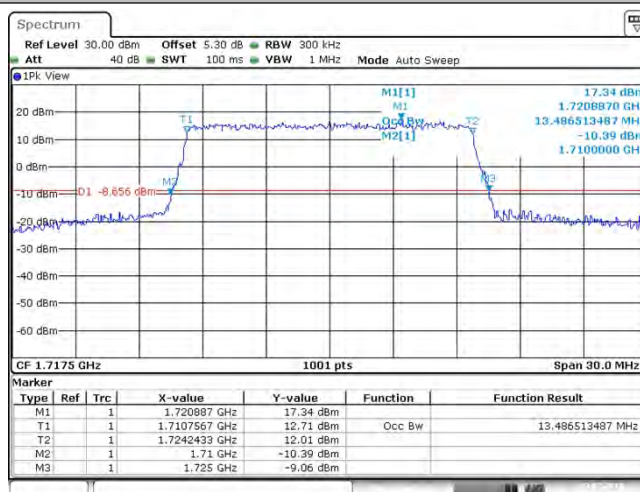
Date: 23 JUL 2018 16:47:41

BAND4_15MHz_64QAM_20325_75RB#0



Date: 23 JUL 2018 16:48:29

BAND4_15MHz_16QAM_20025_75RB#0



Date: 23 JUL 2018 16:46:51

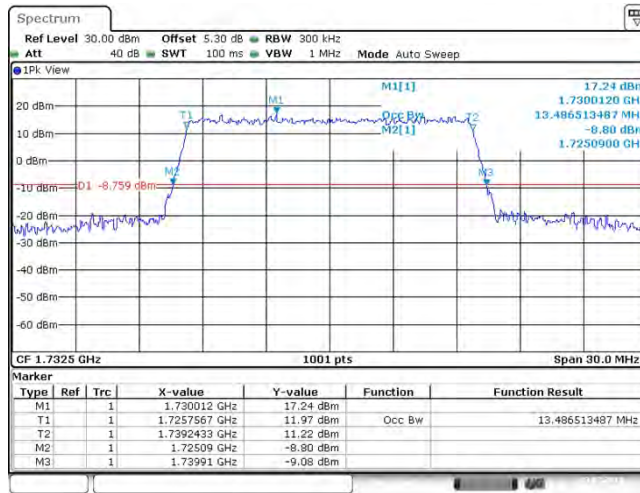
BAND4_15MHz_16QAM_20175_75RB#0



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

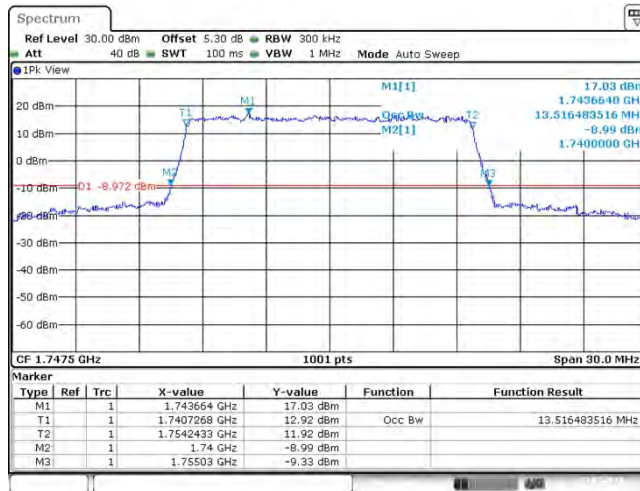
Report No.: SZEM180700654901

Page: 37 of 86



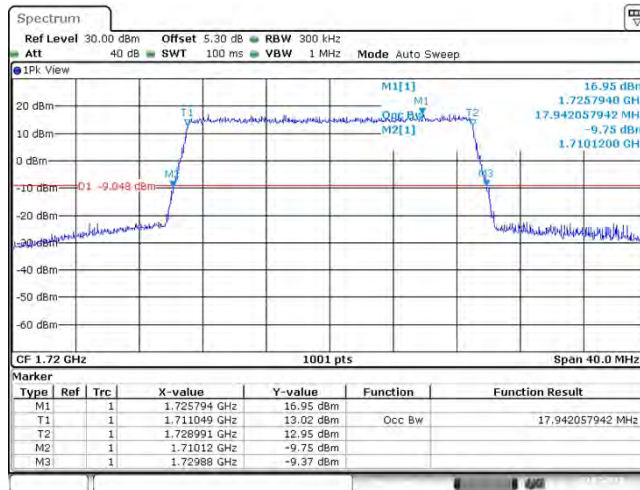
Date: 23 JUL 2018 16:47:29

BAND4_15MHz_16QAM_20325_75RB#0



Date: 23 JUL 2018 16:48:97

BAND4_20MHz_QPSK_20050_100RB#0



Date: 23 JUL 2018 16:48:37

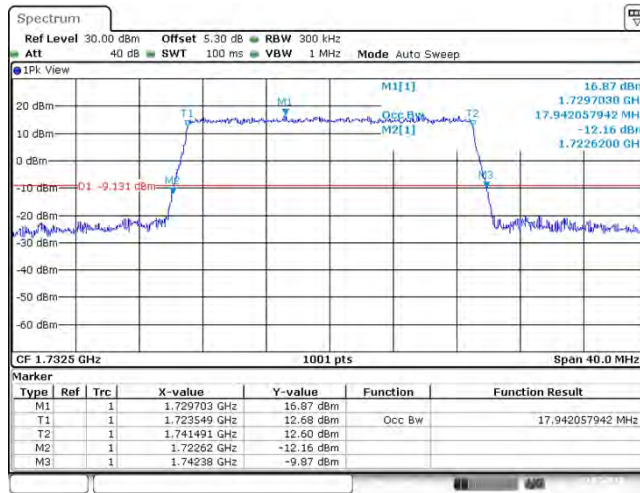
BAND4_20MHz_QPSK_20175_100RB#0



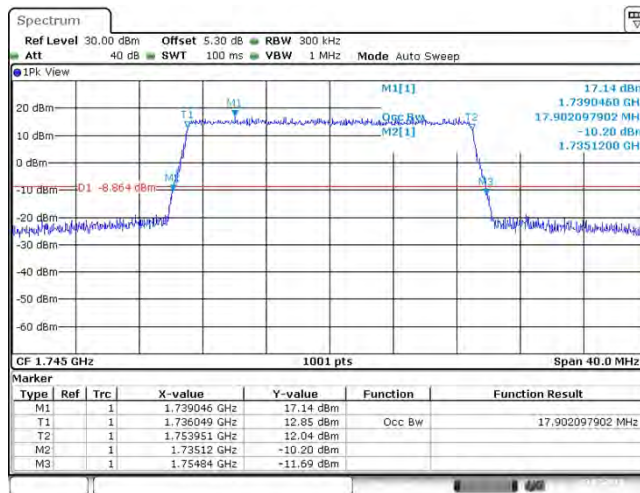
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM180700654901

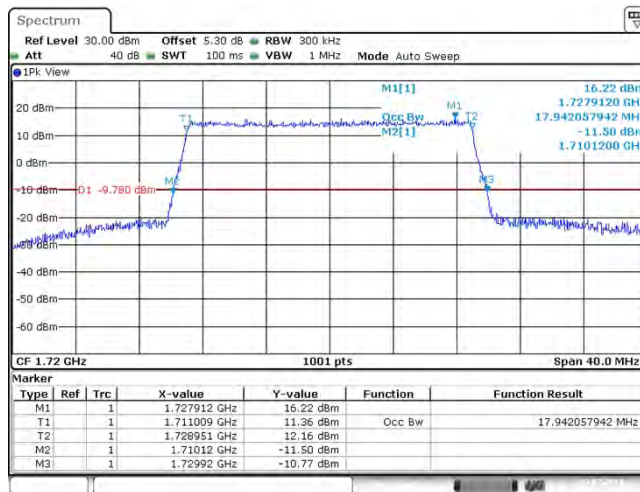
Page: 38 of 86



BAND4_20MHz_QPSK_20300_100RB#0



BAND4_20MHz_64QAM_20050_100RB#0



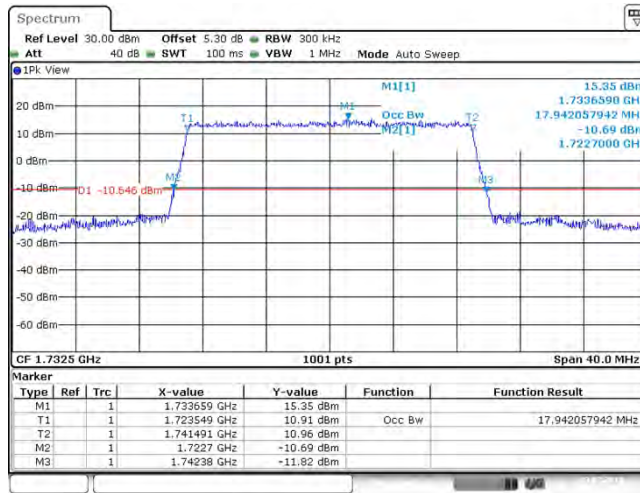
BAND4_20MHz_64QAM_20175_100RB#0



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

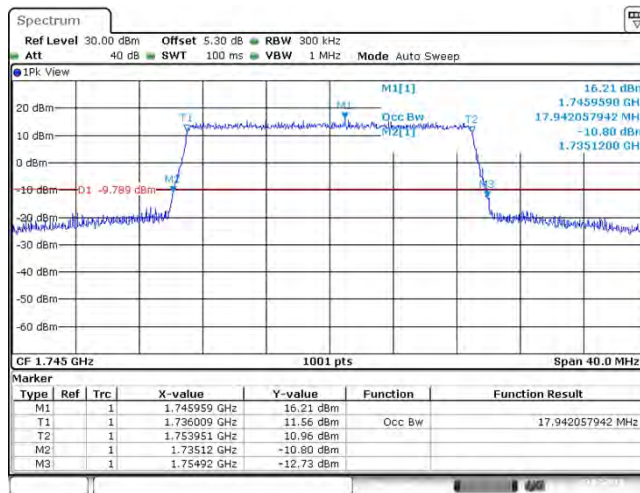
Report No.: SZEM180700654901

Page: 39 of 86



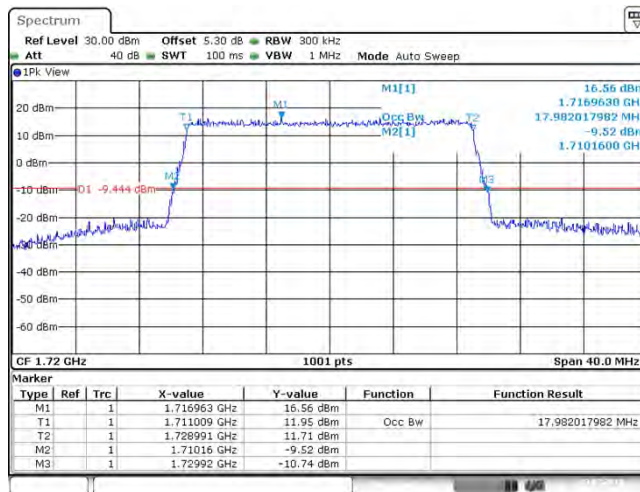
Date: 23 JUL 2018 16:49:41

BAND4_20MHz_64QAM_20300_100RB#0



Date: 23 JUL 2018 16:50:29

BAND4_20MHz_16QAM_20050_100RB#0



Date: 23 JUL 2018 16:48:59

BAND4_20MHz_16QAM_20175_100RB#0

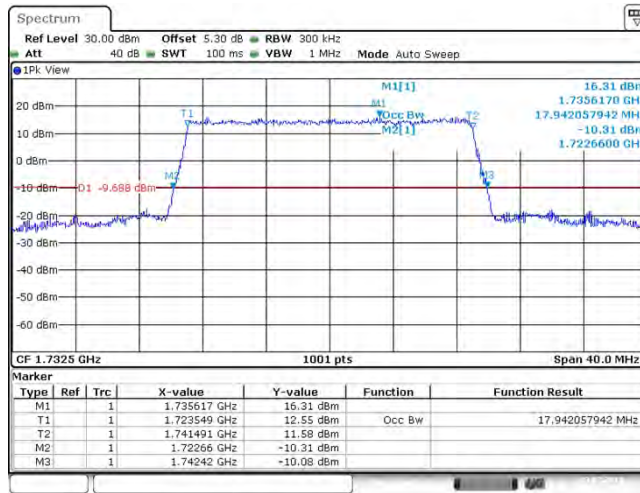
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>.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



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

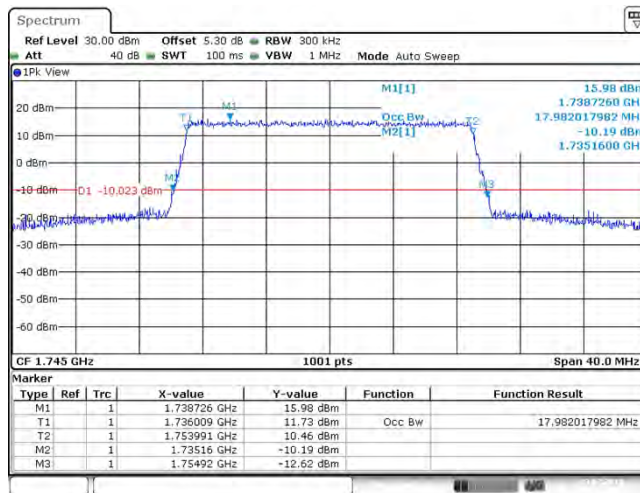
Report No.: SZEM180700654901

Page: 40 of 86



Date: 23 JUL 2018 16:49:29

BAND4_20MHz_16QAM_20300_100RB#0



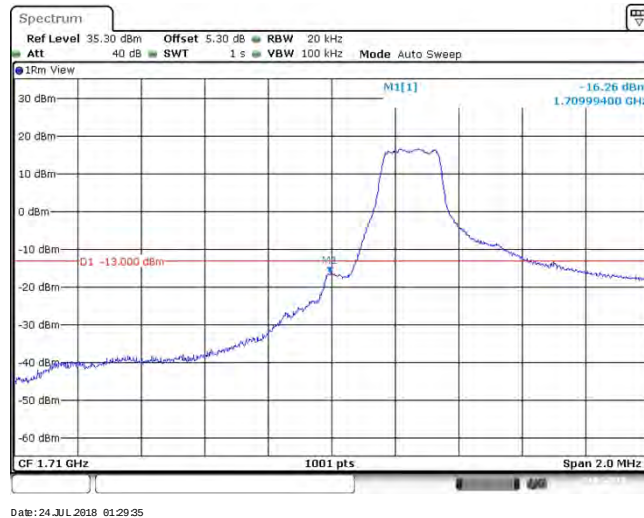
Date: 23 JUL 2018 16:50:07



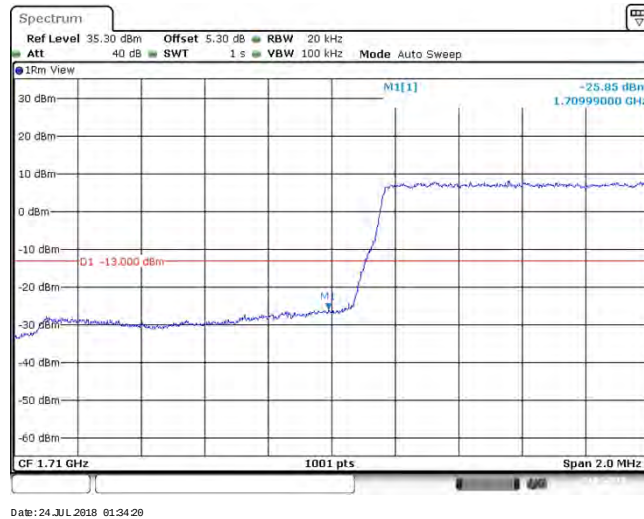
5. Band Edge Compliance

5.1. Test Plots

BAND4_1.4MHz_QPSK_19957_1RB#0



BAND4_1.4MHz_QPSK_19957_6RB#0



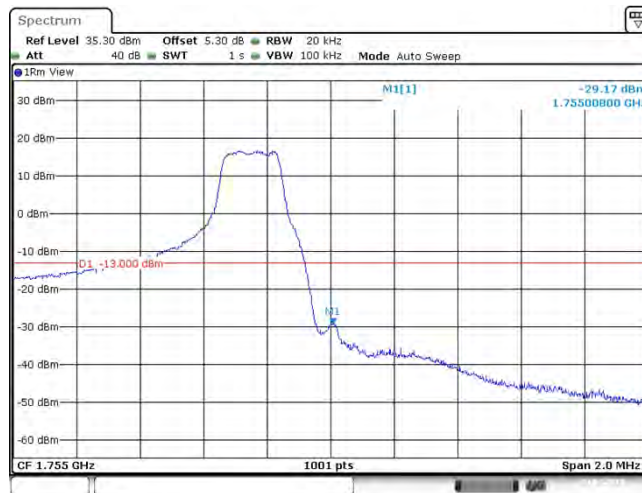
BAND4_1.4MHz_QPSK_20393_1RB#5



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

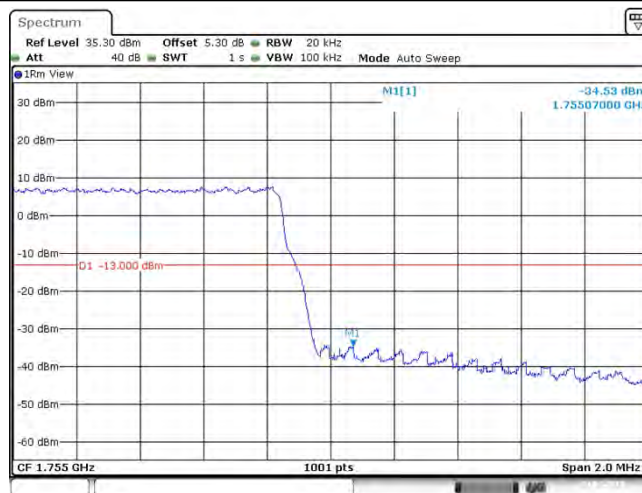
Report No.: SZEM180700654901

Page: 42 of 86



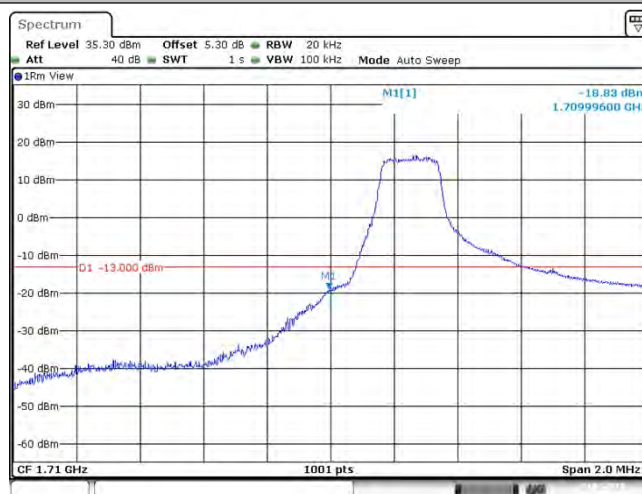
Date: 24 JUL 2018 01:31:58

BAND4_1.4MHz_QPSK_20393_6RB#0



Date: 24 JUL 2018 01:36:38

BAND4_1.4MHz_64QAM_19957_1RB#0



Date: 24 JUL 2018 01:31:07

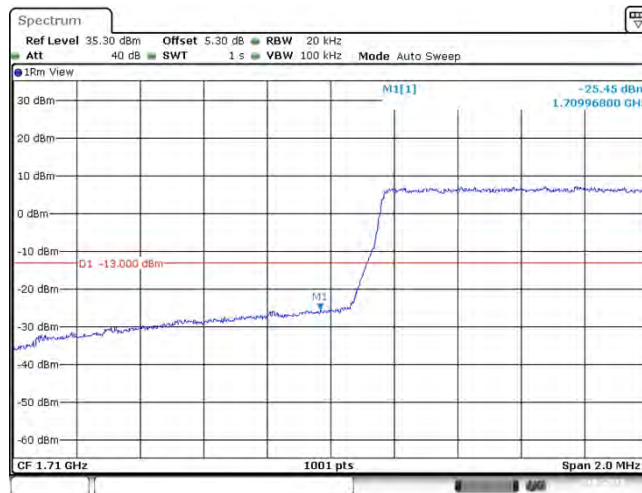
BAND4_1.4MHz_64QAM_19957_6RB#0



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

Report No.: SZEM180700654901

Page: 43 of 86



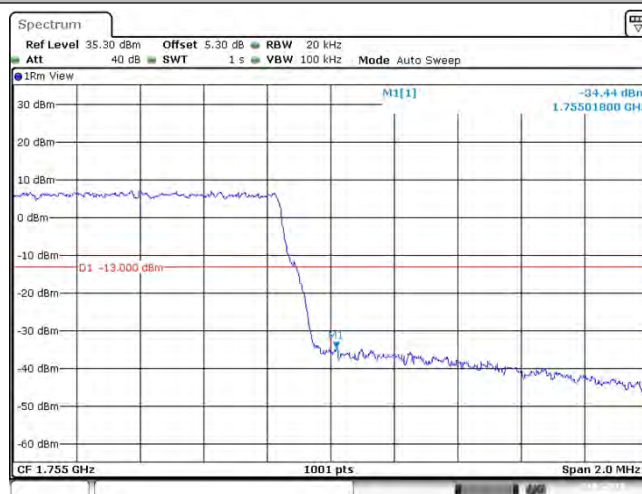
Date: 24 JUL 2018 01:35:52

BAND4_1.4MHz_64QAM_20393_1RB#5



Date: 24 JUL 2018 01:33:29

BAND4_1.4MHz_64QAM_20393_6RB#0



Date: 24 JUL 2018 01:38:10

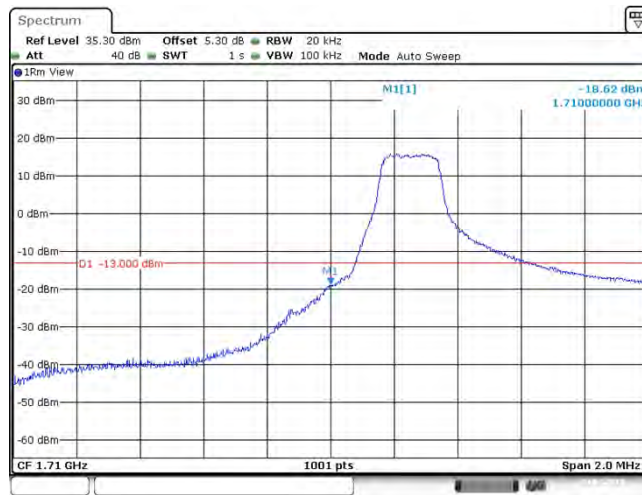
BAND4_1.4MHz_16QAM_19957_1RB#0



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

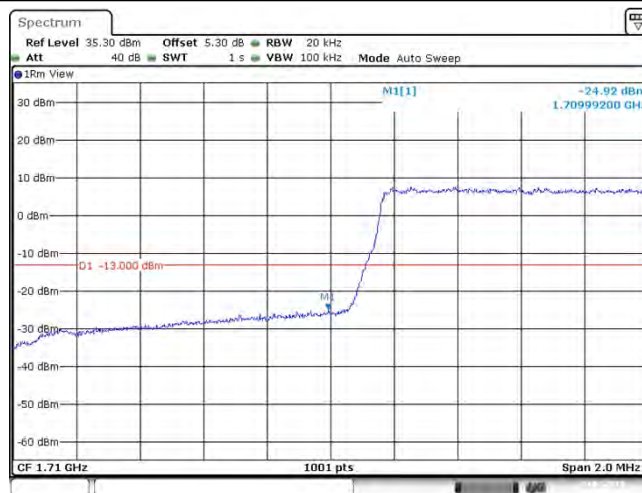
Report No.: SZEM180700654901

Page: 44 of 86



Date: 24 JUL 2018 01:39:21

BAND4_1.4MHz_16QAM_19957_6RB#0



Date: 24 JUL 2018 01:35:56

BAND4_1.4MHz_16QAM_20393_1RB#5



Date: 24 JUL 2018 01:32:43

BAND4_1.4MHz_16QAM_20393_6RB#0

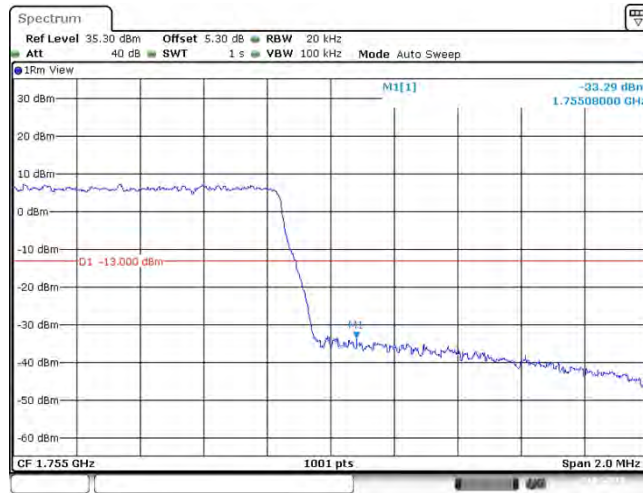
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>.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



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

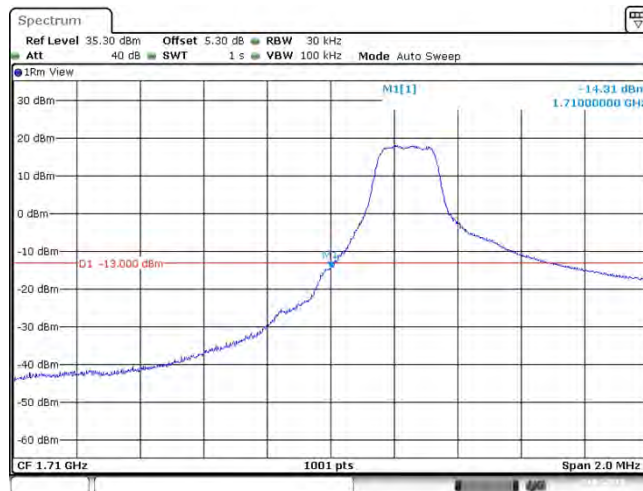
Report No.: SZEM180700654901

Page: 45 of 86



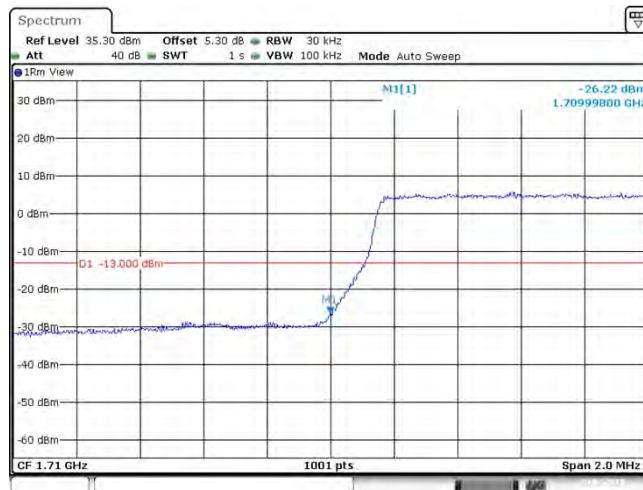
Date: 24 JUL 2018 01:37:24

BAND4_3MHz_QPSK_19965_1RB#0



Date: 24 JUL 2018 01:39:02

BAND4_3MHz_QPSK_19965_15RB#0



Date: 24 JUL 2018 01:43:47

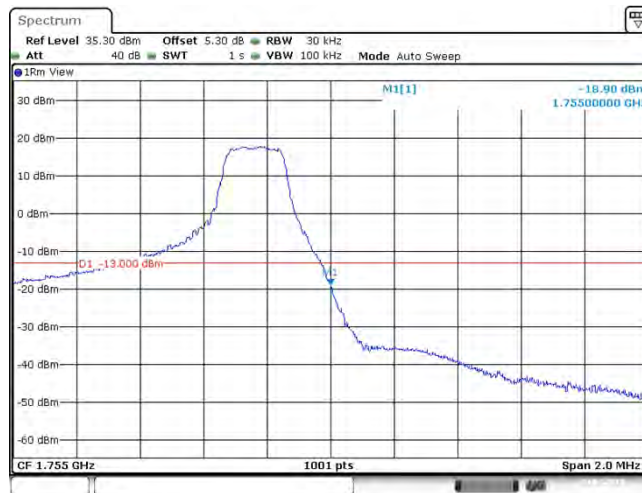
BAND4_3MHz_QPSK_20385_1RB#14



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

Report No.: SZEM180700654901

Page: 46 of 86



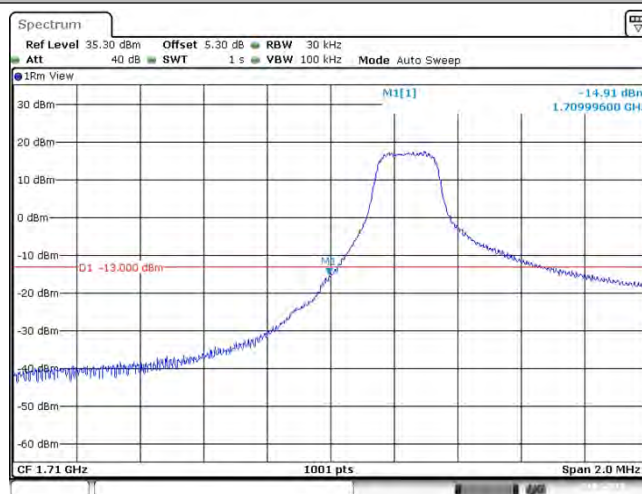
Date: 24 JUL 2018 01:41:25

BAND4_3MHz_QPSK_20385_15RB#0



Date: 24 JUL 2018 01:46:05

BAND4_3MHz_64QAM_19965_1RB#0



Date: 24 JUL 2018 01:46:34

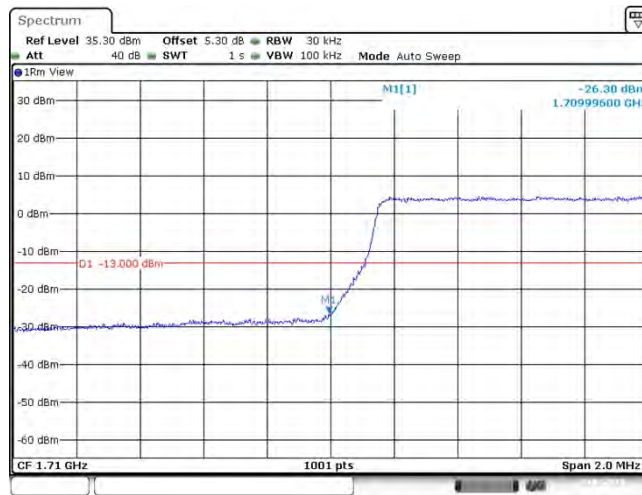
BAND4_3MHz_64QAM_19965_15RB#0



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

Report No.: SZEM180700654901

Page: 47 of 86



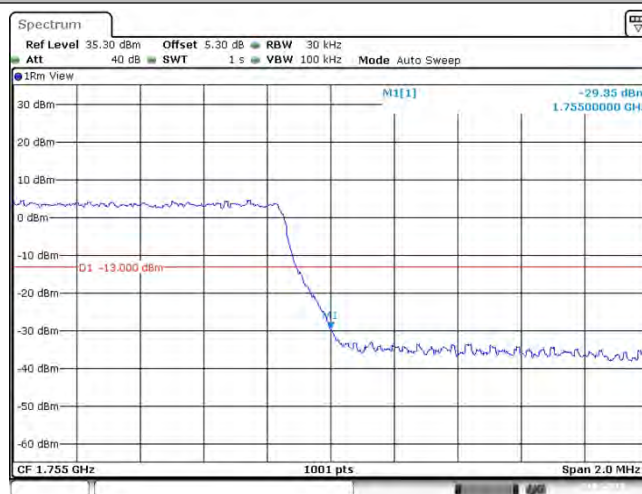
Date: 24 JUL 2018 01:45:19

BAND4_3MHz_64QAM_20385_1RB#14



Date: 24 JUL 2018 01:42:56

BAND4_3MHz_64QAM_20385_15RB#0



Date: 24 JUL 2018 01:47:36

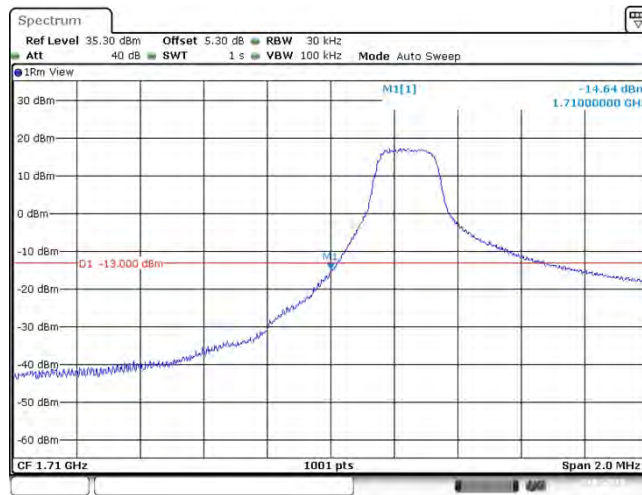
BAND4_3MHz_16QAM_19965_1RB#0



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

Report No.: SZEM180700654901

Page: 48 of 86



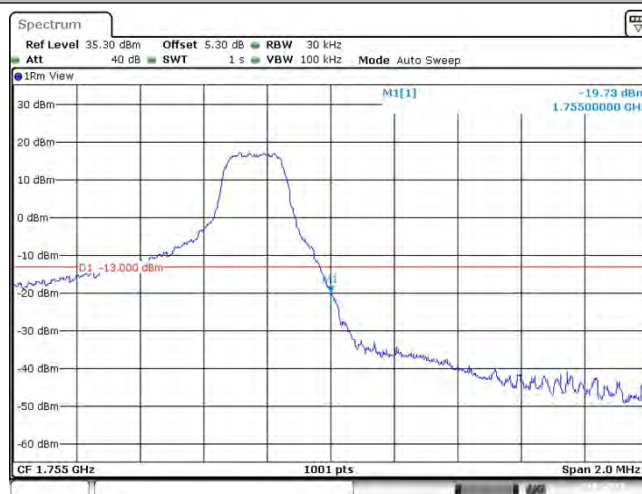
Date: 24 JUL 2018 01:39:48

BAND4_3MHz_16QAM_19965_15RB#0



Date: 24 JUL 2018 01:44:33

BAND4_3MHz_16QAM_20385_1RB#14



Date: 24 JUL 2018 01:42:10

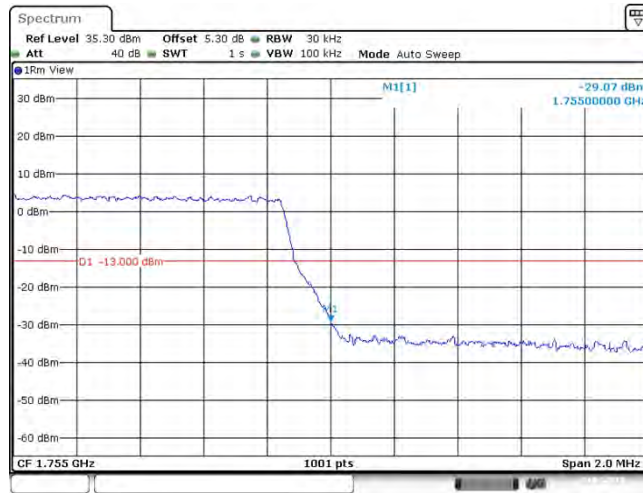
BAND4_3MHz_16QAM_20385_15RB#0



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

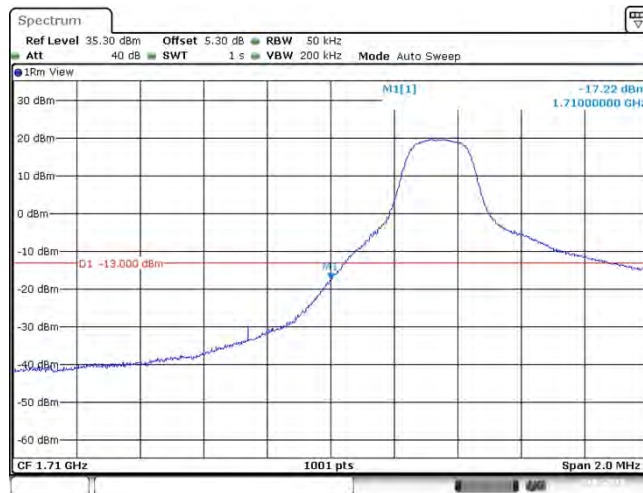
Report No.: SZEM180700654901

Page: 49 of 86



Date: 24 JUL 2018 01:46:51

BAND4_5MHz_QPSK_19975_1RB#0



Date: 24 JUL 2018 01:48:28

BAND4_5MHz_QPSK_19975_25RB#0



Date: 24 JUL 2018 01:53:12

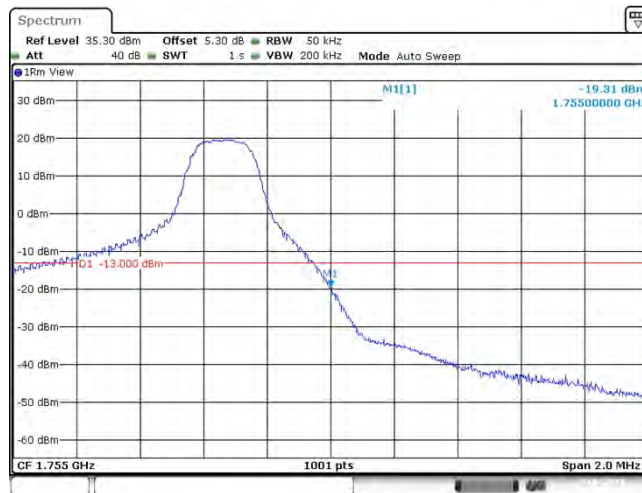
BAND4_5MHz_QPSK_20375_1RB#24



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

Report No.: SZEM180700654901

Page: 50 of 86



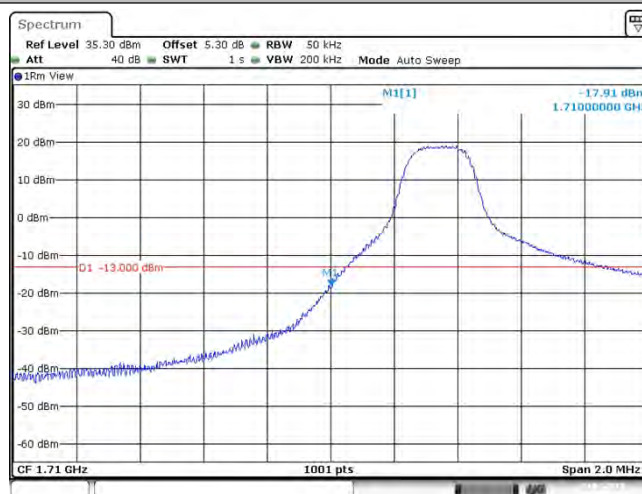
Date: 24 JUL 2018 01:50:50

BAND4_5MHz_QPSK_20375_25RB#0



Date: 24 JUL 2018 01:55:30

BAND4_5MHz_64QAM_19975_1RB#0



Date: 24 JUL 2018 01:49:59

BAND4_5MHz_64QAM_19975_25RB#0



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

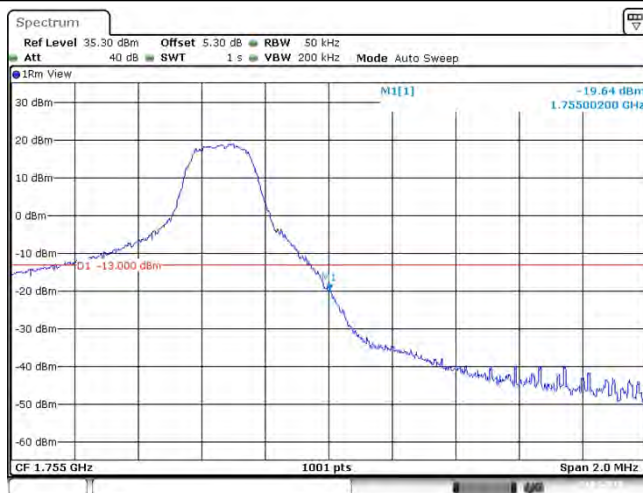
Report No.: SZEM180700654901

Page: 51 of 86



Date: 24 JUL 2018 01:54:44

BAND4_5MHz_64QAM_20375_1RB#24



Date: 24 JUL 2018 01:52:22

BAND4_5MHz_64QAM_20375_25RB#0



Date: 24 JUL 2018 01:57:02

BAND4_5MHz_16QAM_19975_1RB#0