



Appendix B.48

LTE Band 48



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Testing and Calibration Laboratory

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	21.18	22.18	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#12	21.24	22.24	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#24	21.16	22.16	23.00	PASS
Band48	5MHz	QPSK	55265	25RB#0	20.23	21.23	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#0	21.06	22.06	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#12	21.12	22.12	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#24	21.08	22.08	23.00	PASS
Band48	5MHz	QPSK	55990	25RB#0	20.07	21.07	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#0	20.89	21.89	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#12	21.08	22.08	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#24	20.98	21.98	23.00	PASS
Band48	5MHz	QPSK	56715	25RB#0	19.99	20.99	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#0	20.06	21.06	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#12	20.09	21.09	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#24	20.15	21.15	23.00	PASS
Band48	5MHz	16QAM	55265	25RB#0	19.21	20.21	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#0	19.96	20.96	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#12	20.11	21.11	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#24	20	21	23.00	PASS
Band48	5MHz	16QAM	55990	25RB#0	19.06	20.06	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#0	19.86	20.86	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#12	20.02	21.02	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#24	20	21	23.00	PASS
Band48	5MHz	16QAM	56715	25RB#0	19.03	20.03	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#0	19.22	20.22	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#12	19.34	20.34	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#24	19.24	20.24	23.00	PASS



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Band48	5MHz	64QAM	55265	25RB#0	18.19	19.19	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#0	19.06	20.06	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#12	19.18	20.18	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#24	19.07	20.07	23.00	PASS
Band48	5MHz	64QAM	55990	25RB#0	18.06	19.06	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#0	19.05	20.05	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#12	19.13	20.13	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#24	19.1	20.1	23.00	PASS
Band48	5MHz	64QAM	56715	25RB#0	17.99	18.99	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#0	16.17	17.17	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#12	16.22	17.22	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#24	16.14	17.14	23.00	PASS
Band48	5MHz	256QAM	55265	25RB#0	16.16	17.16	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#0	15.91	16.91	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#12	16.18	17.18	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#24	16.1	17.1	23.00	PASS
Band48	5MHz	256QAM	55990	25RB#0	16.04	17.04	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#0	15.85	16.85	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#12	16.04	17.04	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#24	15.93	16.93	23.00	PASS
Band48	5MHz	256QAM	56715	25RB#0	16.01	17.01	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#0	21.14	22.14	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#24	21.22	22.22	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#49	21.15	22.15	23.00	PASS
Band48	10MHz	QPSK	55290	50RB#0	20.23	21.23	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#0	21.07	22.07	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#24	21.1	22.1	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#49	21.05	22.05	23.00	PASS
Band48	10MHz	QPSK	55990	50RB#0	20.06	21.06	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#0	21	22	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#24	21.05	22.05	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#49	21.05	22.05	23.00	PASS
Band48	10MHz	QPSK	56690	50RB#0	20.09	21.09	23.00	PASS



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Band48	10MHz	16QAM	55290	1RB#0	20.16	21.16	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#24	20.14	21.14	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#49	20.2	21.2	23.00	PASS
Band48	10MHz	16QAM	55290	50RB#0	19.23	20.23	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#0	20.07	21.07	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#24	20.13	21.13	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#49	19.94	20.94	23.00	PASS
Band48	10MHz	16QAM	55990	50RB#0	19.08	20.08	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#0	20	21	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#24	20.11	21.11	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#49	20.04	21.04	23.00	PASS
Band48	10MHz	16QAM	56690	50RB#0	19.09	20.09	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#0	19.19	20.19	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#24	19.27	20.27	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#49	19.17	20.17	23.00	PASS
Band48	10MHz	64QAM	55290	50RB#0	18.24	19.24	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#0	19.13	20.13	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#24	19.23	20.23	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#49	19.15	20.15	23.00	PASS
Band48	10MHz	64QAM	55990	50RB#0	18.1	19.1	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#0	19.03	20.03	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#24	19.03	20.03	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#49	19.14	20.14	23.00	PASS
Band48	10MHz	64QAM	56690	50RB#0	18.09	19.09	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#0	15.95	16.95	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#24	16.19	17.19	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#49	16.15	17.15	23.00	PASS
Band48	10MHz	256QAM	55290	50RB#0	16.23	17.23	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#0	15.92	16.92	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#24	16.01	17.01	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#49	16.03	17.03	23.00	PASS
Band48	10MHz	256QAM	55990	50RB#0	16.05	17.05	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#0	15.92	16.92	23.00	PASS



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Band48	10MHz	256QAM	56690	1RB#24	16.04	17.04	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#49	15.95	16.95	23.00	PASS
Band48	10MHz	256QAM	56690	50RB#0	16.08	17.08	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#0	20.88	21.88	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#38	20.92	21.92	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#74	20.93	21.93	23.00	PASS
Band48	15MHz	QPSK	55315	75RB#0	20.07	21.07	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#0	20.81	21.81	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#38	21.01	22.01	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#74	20.84	21.84	23.00	PASS
Band48	15MHz	QPSK	55990	75RB#0	19.93	20.93	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#0	20.75	21.75	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#38	20.81	21.81	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#74	20.79	21.79	23.00	PASS
Band48	15MHz	QPSK	56665	75RB#0	19.88	20.88	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#0	19.9	20.9	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#38	19.96	20.96	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#74	20	21	23.00	PASS
Band48	15MHz	16QAM	55315	75RB#0	19.05	20.05	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#0	19.67	20.67	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#38	19.86	20.86	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#74	19.86	20.86	23.00	PASS
Band48	15MHz	16QAM	55990	75RB#0	18.88	19.88	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#0	19.77	20.77	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#38	19.88	20.88	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#74	19.84	20.84	23.00	PASS
Band48	15MHz	16QAM	56665	75RB#0	18.87	19.87	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#0	19.11	20.11	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#38	19.15	20.15	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#74	18.96	19.96	23.00	PASS
Band48	15MHz	64QAM	55315	75RB#0	18.05	19.05	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#0	18.98	19.98	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#38	19.13	20.13	23.00	PASS



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Band48	15MHz	64QAM	55990	1RB#74	19.06	20.06	23.00	PASS
Band48	15MHz	64QAM	55990	75RB#0	17.9	18.9	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#0	18.9	19.9	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#38	19.01	20.01	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#74	19.03	20.03	23.00	PASS
Band48	15MHz	64QAM	56665	75RB#0	17.89	18.89	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#0	16	17	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#38	16.03	17.03	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#74	15.88	16.88	23.00	PASS
Band48	15MHz	256QAM	55315	75RB#0	16.06	17.06	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#0	15.74	16.74	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#38	15.92	16.92	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#74	15.84	16.84	23.00	PASS
Band48	15MHz	256QAM	55990	75RB#0	15.91	16.91	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#0	15.73	16.73	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#38	15.84	16.84	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#74	15.82	16.82	23.00	PASS
Band48	15MHz	256QAM	56665	75RB#0	15.87	16.87	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#0	20.82	21.82	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#49	20.94	21.94	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#99	20.9	21.9	23.00	PASS
Band48	20MHz	QPSK	55340	100RB#0	20.07	21.07	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#0	20.89	21.89	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#49	20.9	21.9	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#99	20.82	21.82	23.00	PASS
Band48	20MHz	QPSK	55990	100RB#0	19.95	20.95	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#0	20.78	21.78	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#49	20.85	21.85	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#99	20.8	21.8	23.00	PASS
Band48	20MHz	QPSK	56640	100RB#0	19.98	20.98	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#0	19.92	20.92	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#49	20.09	21.09	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#99	19.83	20.83	23.00	PASS



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Band48	20MHz	16QAM	55340	100RB#0	19.04	20.04	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#0	19.77	20.77	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#49	19.9	20.9	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#99	19.83	20.83	23.00	PASS
Band48	20MHz	16QAM	55990	100RB#0	18.93	19.93	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#0	19.69	20.69	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#49	20.04	21.04	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#99	19.83	20.83	23.00	PASS
Band48	20MHz	16QAM	56640	100RB#0	18.98	19.98	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#0	19.14	20.14	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#49	19.07	20.07	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#99	19	20	23.00	PASS
Band48	20MHz	64QAM	55340	100RB#0	18.07	19.07	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#0	18.9	19.9	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#49	19.04	20.04	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#99	18.99	19.99	23.00	PASS
Band48	20MHz	64QAM	55990	100RB#0	17.9	18.9	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#0	18.9	19.9	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#49	18.96	19.96	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#99	18.96	19.96	23.00	PASS
Band48	20MHz	64QAM	56640	100RB#0	17.95	18.95	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#0	15.85	16.85	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#49	15.82	16.82	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#99	15.89	16.89	23.00	PASS
Band48	20MHz	256QAM	55340	100RB#0	16.05	17.05	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#0	15.8	16.8	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#49	15.87	16.87	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#99	15.88	16.88	23.00	PASS
Band48	20MHz	256QAM	55990	100RB#0	15.94	16.94	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#0	15.75	16.75	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#49	15.82	16.82	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#99	15.97	16.97	23.00	PASS
Band48	20MHz	256QAM	56640	100RB#0	15.95	16.95	23.00	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band 48_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7675.875	43.41	-45.08	36.59	-60.34	-40.00	20.34	Horizontal
2	9305.5208	41.81	-42.93	37.87	-58.51	-40.00	18.51	Horizontal
3	10740.625	39.49	-40.66	39.17	-57.27	-40.00	17.27	Horizontal
4	11997.9583	38.01	-38.59	39.20	-56.64	-40.00	16.64	Horizontal
5	14179.6042	37.44	-38.27	40.76	-55.33	-40.00	15.33	Horizontal
6	17296.1042	36.79	-37.11	40.80	-54.79	-40.00	14.79	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7825.8542	43.46	-44.92	36.41	-60.31	-40.00	20.31	Vertical
2	9222.1458	40.90	-42.96	37.80	-59.52	-40.00	19.52	Vertical
3	10442.1042	39.26	-40.96	38.90	-58.07	-40.00	18.07	Vertical
4	12020.4792	38.09	-38.73	39.19	-56.71	-40.00	16.71	Vertical
5	13868.625	37.65	-38.40	40.60	-55.41	-40.00	15.41	Vertical
6	17449.4375	35.65	-36.67	41.78	-54.50	-40.00	14.50	Vertical



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Test Band = LTE Band 48_TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7912.5833	42.27	-44.88	36.30	-61.57	-40.00	21.57	Horizontal
2	9524.9792	41.28	-42.42	38.07	-58.33	-40.00	18.33	Horizontal
3	10793.8125	39.39	-40.47	39.21	-57.13	-40.00	17.13	Horizontal
4	13354.9583	38.03	-38.81	39.42	-56.62	-40.00	16.62	Horizontal
5	14705.7292	37.40	-38.13	40.34	-55.66	-40.00	15.66	Horizontal
6	17789.1667	36.48	-37.99	43.95	-52.82	-40.00	12.82	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7370.6458	43.73	-45.69	36.49	-60.73	-40.00	20.73	Vertical
2	8870.9167	41.87	-43.64	37.42	-59.61	-40.00	19.61	Vertical
3	10750.2083	39.39	-40.63	39.18	-57.32	-40.00	17.32	Vertical
4	12029.1042	38.00	-38.80	39.18	-56.88	-40.00	16.88	Vertical
5	14307.5417	37.46	-38.77	40.65	-55.92	-40.00	15.92	Vertical
6	17643.0208	35.62	-37.20	43.02	-53.83	-40.00	13.83	Vertical



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Test Band = LTE Band 48_ TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7397.4792	43.59	-45.57	36.55	-60.69	-40.00	20.69	Horizontal
2	8606.4167	41.67	-44.10	37.05	-60.64	-40.00	20.64	Horizontal
3	11105.75	38.51	-40.10	39.38	-57.47	-40.00	17.47	Horizontal
4	12069.3542	38.25	-39.14	39.16	-56.99	-40.00	16.99	Horizontal
5	13829.8125	38.04	-38.47	40.51	-55.18	-40.00	15.18	Horizontal
6	17625.2917	36.03	-37.01	42.90	-53.34	-40.00	13.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7683.0625	43.43	-45.10	36.58	-60.35	-40.00	20.35	Vertical
2	9261.9167	41.05	-42.95	37.84	-59.33	-40.00	19.33	Vertical
3	10396.1042	39.53	-41.24	38.86	-58.12	-40.00	18.12	Vertical
4	12061.6875	38.04	-39.08	39.16	-57.14	-40.00	17.14	Vertical
5	13723.9167	37.57	-38.09	40.27	-55.51	-40.00	15.51	Vertical
6	17874.4583	35.22	-37.45	44.50	-53.00	-40.00	13.00	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---

