

Appendix for LTE BAND 12

Product Name: Smart Phone

Model No: X68

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.84	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.71	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.00	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.89	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.88	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.81	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.91	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.67	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.89	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.69	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.91	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.68	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.96	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.92	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.09	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.89	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.18	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.10	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.09	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.86	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	24.11	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.96	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	24.13	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.99	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.07	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.92	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.07	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.93	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.96	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.85	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.10	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.02	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.94	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.90	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	24.05	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.83	PASS

Band12	1.4MHz	QPSK	23173	3RB#1	24.07	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.84	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	24.01	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.83	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.09	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.04	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.89	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.88	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.94	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.95	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.96	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.94	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.94	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.93	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.94	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.97	PASS
Band12	3MHz	QPSK	23025	8RB#7	23.02	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.97	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.94	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.92	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.13	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.98	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.13	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.92	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.17	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.92	PASS
Band12	3MHz	QPSK	23095	8RB#0	23.12	PASS
Band12	3MHz	16QAM	23095	8RB#0	22.06	PASS
Band12	3MHz	QPSK	23095	8RB#4	23.11	PASS
Band12	3MHz	16QAM	23095	8RB#4	22.08	PASS
Band12	3MHz	QPSK	23095	8RB#7	23.09	PASS
Band12	3MHz	16QAM	23095	8RB#7	22.05	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.07	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.98	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.04	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.03	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.96	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.97	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.98	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.99	PASS
Band12	3MHz	QPSK	23165	8RB#0	23.07	PASS
Band12	3MHz	16QAM	23165	8RB#0	22.08	PASS

Band12	3MHz	QPSK	23165	8RB#4	23.08	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.03	PASS
Band12	3MHz	QPSK	23165	8RB#7	23.05	PASS
Band12	3MHz	16QAM	23165	8RB#7	22.02	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.03	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.02	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.88	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.81	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.05	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.98	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.03	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.98	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.93	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.85	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.87	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.87	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.98	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.92	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.95	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.01	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.05	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.14	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.11	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.17	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.04	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.07	PASS
Band12	5MHz	QPSK	23095	12RB#0	23.16	PASS
Band12	5MHz	16QAM	23095	12RB#0	22.19	PASS
Band12	5MHz	QPSK	23095	12RB#6	23.18	PASS
Band12	5MHz	16QAM	23095	12RB#6	22.12	PASS
Band12	5MHz	QPSK	23095	12RB#13	23.06	PASS
Band12	5MHz	16QAM	23095	12RB#13	22.14	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.11	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.10	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.04	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.97	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.15	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.01	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.99	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.93	PASS
Band12	5MHz	QPSK	23155	12RB#0	23.03	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.98	PASS

Band12	5MHz	QPSK	23155	12RB#6	23.08	PASS
Band12	5MHz	16QAM	23155	12RB#6	22.01	PASS
Band12	5MHz	QPSK	23155	12RB#13	23.02	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.96	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.05	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.08	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.94	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.92	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.13	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.22	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.09	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.04	PASS
Band12	10MHz	QPSK	23060	25RB#0	23.00	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.98	PASS
Band12	10MHz	QPSK	23060	25RB#12	23.02	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.96	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.99	PASS
Band12	10MHz	16QAM	23060	25RB#25	22.00	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.04	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.00	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.10	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.86	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.21	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.08	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.08	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.91	PASS
Band12	10MHz	QPSK	23095	25RB#0	23.18	PASS
Band12	10MHz	16QAM	23095	25RB#0	22.21	PASS
Band12	10MHz	QPSK	23095	25RB#12	23.20	PASS
Band12	10MHz	16QAM	23095	25RB#12	22.17	PASS
Band12	10MHz	QPSK	23095	25RB#25	23.13	PASS
Band12	10MHz	16QAM	23095	25RB#25	22.15	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.17	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.16	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.08	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.91	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.20	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.94	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.00	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.78	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.20	PASS
Band12	10MHz	16QAM	23130	25RB#0	22.28	PASS

Band12	10MHz	QPSK	23130	25RB#12	23.20	PASS
Band12	10MHz	16QAM	23130	25RB#12	22.25	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.08	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.14	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.15	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.15	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.84	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.88	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.30	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.12	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.93	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.77	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.42	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.26	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.38	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.42	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.93	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.80	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.84	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.74	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.33	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.17	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.90	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.71	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.48	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.26	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.67	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.57	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.13	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.97	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.93	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.59	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.42	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.14	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.04	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.74	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.54	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.23	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.04	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.65	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.30	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.06	13	PASS

Band12	10MHz	QPSK	23060	1RB#0	4.78	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.68	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.42	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.20	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.78	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.62	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.45	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.26	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.96	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.83	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.42	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.20	13	PASS

Test Graphs



