

Appendix for LTE BAND 12

Product Name: Mobile Phone

Model No: HERO

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.11	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.43	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.10	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.39	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.04	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.34	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.16	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.46	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.15	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.45	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.11	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.42	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.53	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.94	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.12	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.48	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.12	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.52	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.22	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.54	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.28	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.41	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.26	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.28	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.18	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.32	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.61	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.86	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.12	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.41	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.12	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.49	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.13	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.40	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.05	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.11	PASS

Band12	1.4MHz	QPSK	23173	3RB#1	22.07	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.12	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.16	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.17	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.70	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.08	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.87	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.09	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.82	PASS
Band12	3MHz	QPSK	23025	1RB#14	21.99	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.74	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.74	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.94	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.76	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.95	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.74	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.87	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.54	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.70	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.12	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.46	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.28	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.57	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.14	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.52	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.46	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.80	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.58	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.68	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.91	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.65	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.62	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.22	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.98	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.15	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.88	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.16	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.97	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.67	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.72	PASS

Band12	3MHz	QPSK	23165	8RB#4	21.70	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.00	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.71	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.02	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.70	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.72	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.20	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.65	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.02	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.57	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.04	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.54	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	20.73	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.81	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.74	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.63	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.56	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.51	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.78	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.09	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.33	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.21	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.36	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.20	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.81	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.57	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.66	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.57	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.73	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.68	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.74	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.66	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.70	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.17	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.66	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.08	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.69	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.22	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.69	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.74	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.76	PASS

Band12	5MHz	QPSK	23155	12RB#6	21.65	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.78	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.69	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.66	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.72	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.75	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.14	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.35	PASS
Band12	10MHz	QPSK	23060	1RB#24	21.94	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.12	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.07	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.23	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.65	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.60	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.68	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.71	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.66	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.65	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.60	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.50	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.12	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.96	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.21	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.08	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.25	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.00	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.60	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.84	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.60	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.85	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.58	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.82	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.71	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.75	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.13	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.11	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.79	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.25	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.79	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.68	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.80	PASS

Band12	10MHz	QPSK	23130	25RB#12	21.59	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.83	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.62	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.73	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.69	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.78	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	5.04	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.16	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.42	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.29	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	5.22	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	6.29	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	5.13	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.28	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.48	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.20	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	5.13	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.45	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.71	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.49	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	5.25	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.88	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.57	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.38	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	5.30	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.74	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.62	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.46	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.13	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.42	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.88	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.49	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.48	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.57	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.51	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.29	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.28	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.57	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.65	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.32	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.90	13	PASS

Band12	10MHz	16QAM	23060	1RB#0	5.13	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.65	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.52	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	5.62	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.94	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.57	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.32	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.16	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.33	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.51	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.32	13	PASS

Test Graphs



