

Appendix for LTE Band 7

Product Name: Smart POS

Model No: Z92

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.42	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.77	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.44	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.42	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.58	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.40	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.44	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.41	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.53	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.42	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.37	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.49	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.39	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.48	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.76	PASS
Band7	5MHz	QPSK	21100	1RB#12	24.03	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.72	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.83	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.87	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.76	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.78	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.78	PASS
Band7	5MHz	16QAM	21100	1RB#12	23.08	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.78	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.80	PASS
Band7	5MHz	16QAM	21100	12RB#6	21.86	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.78	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.77	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.92	PASS
Band7	5MHz	QPSK	21425	1RB#12	24.21	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.92	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.97	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.95	PASS
Band7	5MHz	QPSK	21425	12RB#13	22.83	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.90	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.78	PASS

Band7	5MHz	16QAM	21425	1RB#12	22.87	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.76	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.95	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.95	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.87	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.95	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.48	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.68	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.54	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.57	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.53	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.58	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.58	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.47	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.68	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.52	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.52	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.51	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.53	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.53	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.84	PASS
Band7	10MHz	QPSK	21100	1RB#24	24.06	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.82	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.96	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.89	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.86	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.84	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.62	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.14	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.65	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.92	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.87	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.81	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.82	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.99	PASS
Band7	10MHz	QPSK	21400	1RB#24	24.20	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.93	PASS
Band7	10MHz	QPSK	21400	25RB#0	23.10	PASS
Band7	10MHz	QPSK	21400	25RB#12	23.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	23.01	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.95	PASS

Band7	10MHz	16QAM	21400	1RB#0	22.78	PASS
Band7	10MHz	16QAM	21400	1RB#24	23.13	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.69	PASS
Band7	10MHz	16QAM	21400	25RB#0	22.11	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.98	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.97	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.96	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.31	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.47	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.32	PASS
Band7	15MHz	QPSK	20825	38RB#0	22.52	PASS
Band7	15MHz	QPSK	20825	38RB#18	22.52	PASS
Band7	15MHz	QPSK	20825	38RB#37	22.51	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.53	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.34	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.45	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.33	PASS
Band7	15MHz	16QAM	20825	38RB#0	22.51	PASS
Band7	15MHz	16QAM	20825	38RB#18	21.53	PASS
Band7	15MHz	16QAM	20825	38RB#37	22.52	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.48	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.57	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.76	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.58	PASS
Band7	15MHz	QPSK	21100	38RB#0	22.85	PASS
Band7	15MHz	QPSK	21100	38RB#18	22.89	PASS
Band7	15MHz	QPSK	21100	38RB#37	22.83	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.86	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.74	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.90	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.70	PASS
Band7	15MHz	16QAM	21100	38RB#0	22.84	PASS
Band7	15MHz	16QAM	21100	38RB#18	21.84	PASS
Band7	15MHz	16QAM	21100	38RB#37	22.83	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.79	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.84	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.98	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.75	PASS
Band7	15MHz	QPSK	21375	38RB#0	22.99	PASS
Band7	15MHz	QPSK	21375	38RB#18	23.06	PASS
Band7	15MHz	QPSK	21375	38RB#37	23.01	PASS

Band7	15MHz	QPSK	21375	75RB#0	22.99	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.56	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.99	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.49	PASS
Band7	15MHz	16QAM	21375	38RB#0	22.99	PASS
Band7	15MHz	16QAM	21375	38RB#18	21.92	PASS
Band7	15MHz	16QAM	21375	38RB#37	22.96	PASS
Band7	15MHz	16QAM	21375	75RB#0	22.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.24	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.77	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.28	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.52	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.52	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.49	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.50	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.20	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.68	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.22	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.49	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.45	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.49	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.48	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.50	PASS
Band7	20MHz	QPSK	21100	1RB#49	24.01	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.61	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.85	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.87	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.61	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.75	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.61	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.11	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.70	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.79	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.83	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.66	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.72	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.69	PASS
Band7	20MHz	QPSK	21350	1RB#49	24.24	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.57	PASS
Band7	20MHz	QPSK	21350	50RB#0	23.01	PASS
Band7	20MHz	QPSK	21350	50RB#25	23.01	PASS

Band7	20MHz	QPSK	21350	50RB#50	22.87	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.98	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.59	PASS
Band7	20MHz	16QAM	21350	1RB#49	23.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.41	PASS
Band7	20MHz	16QAM	21350	50RB#0	22.10	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.97	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.88	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.93	PASS

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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	5.04	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.45	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	5.68	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.17	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	4.49	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.13	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	5.25	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.91	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	4.75	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.39	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	5.48	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.17	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	4.93	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.39	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	5.83	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.20	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	4.32	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.07	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	5.28	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.94	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	4.87	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.33	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	6.03	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.17	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	4.99	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.65	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	5.88	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.29	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	4.46	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.28	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	5.42	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	5.97	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	4.93	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.59	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	6.09	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.20	13	PASS

Band7	20MHz	QPSK	20850	1RB#0	4.90	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.36	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	5.59	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.23	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	4.64	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.13	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	5.62	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.97	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.96	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.28	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	6.00	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.14	13	PASS

Test Graphs



