

Appendix for LTE Band 5

Product Name: Smart POS

Model No: Z92

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.44	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.59	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.35	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	24.47	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	24.49	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	24.48	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.48	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.35	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.56	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.25	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	23.24	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	23.41	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	23.24	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.42	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.00	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.12	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.94	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	24.09	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	24.08	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	24.04	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.08	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.89	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.17	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.85	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.86	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.01	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.83	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.04	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.93	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.15	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.93	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	24.01	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	24.03	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.98	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.03	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.82	PASS

Band5	1.4MHz	16QAM	20643	1RB#2	23.05	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.79	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.77	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.88	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.77	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.95	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.52	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.43	PASS
Band5	3MHz	QPSK	20415	8RB#0	23.54	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.47	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.47	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.43	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.52	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.38	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.37	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.51	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.51	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.47	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.19	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.07	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.05	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.14	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.18	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.09	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.04	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.13	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.04	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.04	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.14	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.17	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.08	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.10	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.04	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.07	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.05	PASS
Band5	3MHz	QPSK	20635	8RB#0	23.11	PASS
Band5	3MHz	QPSK	20635	8RB#4	23.11	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.05	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.06	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.04	PASS

Band5	3MHz	16QAM	20635	1RB#8	22.96	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.98	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.04	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.08	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.06	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.03	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.43	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.66	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.30	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.43	PASS
Band5	5MHz	QPSK	20425	12RB#13	23.29	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.33	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.35	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.46	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.21	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.32	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.37	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.24	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.35	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.04	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.17	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.90	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.05	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.07	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.95	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.01	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.07	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.29	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.99	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.05	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.10	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.96	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.97	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.97	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.13	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.94	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.94	PASS
Band5	5MHz	QPSK	20625	12RB#6	23.06	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.96	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.94	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.90	PASS

Band5	5MHz	16QAM	20625	1RB#12	22.98	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.87	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.90	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.98	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.86	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.94	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.40	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.48	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.09	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.39	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.35	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.33	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.32	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.41	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.39	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.11	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.36	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.29	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.28	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.28	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.16	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.26	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.91	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.17	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.13	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.93	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.02	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.15	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.18	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.89	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.09	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.11	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.94	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.01	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.93	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.73	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.96	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.07	PASS
Band5	10MHz	QPSK	20600	25RB#12	23.03	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.02	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.04	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.95	PASS

Band5	10MHz	16QAM	20600	1RB#24	23.09	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.90	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.01	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.03	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.98	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.03	PASS

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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.58	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.01	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.62	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.86	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.64	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.16	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.48	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.00	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.00	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.58	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.10	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.48	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.55	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.04	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.42	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.88	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.41	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.19	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.25	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.00	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.12	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.72	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.04	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.59	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.72	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.10	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.39	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.86	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.38	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.25	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.13	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.00	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.46	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.87	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.22	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.68	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.61	13	PASS

Band5	10MHz	QPSK	20450	50RB#0	4.99	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.51	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.77	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	3.91	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.10	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	4.87	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.97	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.81	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.07	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.68	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.88	13	PASS

Test Graphs



