

Appendix for LTE Band 4

Product Name: EcoFlow 4G Dongle SEP
Model No: EF-WM-001

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.16	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.11	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.06	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.98	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.06	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.04	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.12	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.90	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.04	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.85	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.88	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.83	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.92	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	24.17	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	24.18	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	24.16	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	24.14	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	24.13	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	24.14	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	23.04	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.29	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.79	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.93	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.80	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	22.03	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.19	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.08	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.16	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.18	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.99	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.97	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.99	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.08	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.04	PASS

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Band4	1.4MHz	16QAM	20393	1RB#5	22.05	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.89	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.87	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.75	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.03	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.74	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.95	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.73	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.90	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.96	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.86	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.85	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.80	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.15	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.68	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.90	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.85	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.95	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.98	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.92	PASS
Band4	3MHz	QPSK	20175	1RB#8	24.32	PASS
Band4	3MHz	QPSK	20175	1RB#14	24.18	PASS
Band4	3MHz	QPSK	20175	8RB#0	23.14	PASS
Band4	3MHz	QPSK	20175	8RB#4	23.25	PASS
Band4	3MHz	QPSK	20175	8RB#7	23.31	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.10	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.72	PASS
Band4	3MHz	16QAM	20175	1RB#8	23.39	PASS
Band4	3MHz	16QAM	20175	1RB#14	23.06	PASS
Band4	3MHz	16QAM	20175	8RB#0	22.12	PASS
Band4	3MHz	16QAM	20175	8RB#4	22.15	PASS
Band4	3MHz	16QAM	20175	8RB#7	22.28	PASS
Band4	3MHz	16QAM	20175	15RB#0	22.22	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.23	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.34	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.03	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.36	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.32	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.28	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.31	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.20	PASS

Band4	3MHz	16QAM	20385	1RB#8	22.45	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.96	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.38	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.37	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.35	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.20	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.56	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.10	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.28	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.31	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.06	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.09	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.90	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.13	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.70	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.37	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.31	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.17	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.22	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.61	PASS
Band4	5MHz	QPSK	20175	1RB#12	24.20	PASS
Band4	5MHz	QPSK	20175	1RB#24	24.11	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.92	PASS
Band4	5MHz	QPSK	20175	12RB#6	23.19	PASS
Band4	5MHz	QPSK	20175	12RB#13	23.14	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.92	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.16	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.92	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.72	PASS
Band4	5MHz	16QAM	20175	12RB#0	22.01	PASS
Band4	5MHz	16QAM	20175	12RB#6	22.17	PASS
Band4	5MHz	16QAM	20175	12RB#13	22.16	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.92	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.50	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.06	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.31	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.41	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.22	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.29	PASS

Band4	5MHz	16QAM	20375	1RB#0	21.90	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.13	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.66	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.40	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.40	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.29	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.27	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.22	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.57	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.38	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.29	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.29	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.32	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.27	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.34	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.36	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.51	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.51	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.50	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.53	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.26	PASS
Band4	10MHz	QPSK	20175	1RB#24	24.33	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.95	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.72	PASS
Band4	10MHz	QPSK	20175	25RB#12	23.13	PASS
Band4	10MHz	QPSK	20175	25RB#25	23.24	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.02	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.17	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.12	PASS
Band4	10MHz	16QAM	20175	1RB#49	23.03	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.86	PASS
Band4	10MHz	16QAM	20175	25RB#12	22.21	PASS
Band4	10MHz	16QAM	20175	25RB#25	22.39	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.03	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.11	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.64	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.12	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.09	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.91	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.04	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.23	PASS

Band4	10MHz	16QAM	20350	1RB#24	22.14	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.72	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.34	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.24	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.04	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.55	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.76	PASS
Band4	15MHz	QPSK	20025	1RB#74	24.04	PASS
Band4	15MHz	QPSK	20025	38RB#0	22.60	PASS
Band4	15MHz	QPSK	20025	38RB#18	22.54	PASS
Band4	15MHz	QPSK	20025	38RB#37	22.66	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.63	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.76	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.64	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.13	PASS
Band4	15MHz	16QAM	20025	38RB#0	22.64	PASS
Band4	15MHz	16QAM	20025	38RB#37	22.63	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.54	PASS
Band4	15MHz	QPSK	20175	1RB#38	24.53	PASS
Band4	15MHz	QPSK	20175	1RB#74	24.27	PASS
Band4	15MHz	QPSK	20175	38RB#0	23.04	PASS
Band4	15MHz	QPSK	20175	38RB#18	23.17	PASS
Band4	15MHz	QPSK	20175	38RB#37	23.05	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.05	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.58	PASS
Band4	15MHz	16QAM	20175	1RB#38	23.22	PASS
Band4	15MHz	16QAM	20175	1RB#74	23.31	PASS
Band4	15MHz	16QAM	20175	38RB#0	22.98	PASS
Band4	15MHz	16QAM	20175	38RB#37	22.98	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.71	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.21	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.80	PASS
Band4	15MHz	QPSK	20325	38RB#0	22.24	PASS
Band4	15MHz	QPSK	20325	38RB#18	22.18	PASS
Band4	15MHz	QPSK	20325	38RB#37	22.20	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.21	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.93	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.23	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.03	PASS
Band4	15MHz	16QAM	20325	38RB#0	22.26	PASS
Band4	15MHz	16QAM	20325	38RB#37	22.27	PASS

Band4	20MHz	QPSK	20050	1RB#0	23.41	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.85	PASS
Band4	20MHz	QPSK	20050	1RB#99	24.14	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.55	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.78	PASS
Band4	20MHz	QPSK	20050	50RB#50	23.09	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.79	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.59	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.90	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.57	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.05	PASS
Band4	20MHz	QPSK	20175	1RB#49	24.43	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.97	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.63	PASS
Band4	20MHz	QPSK	20175	50RB#25	23.18	PASS
Band4	20MHz	QPSK	20175	50RB#50	23.50	PASS
Band4	20MHz	QPSK	20175	100RB#0	23.13	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.18	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.33	PASS
Band4	20MHz	16QAM	20175	1RB#99	23.33	PASS
Band4	20MHz	QPSK	20300	1RB#0	24.01	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.83	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.03	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.95	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.60	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.29	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.65	PASS
Band4	20MHz	16QAM	20300	1RB#0	23.09	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.70	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.19	PASS

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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	4.32	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	4.81	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	5.07	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	5.74	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	4.03	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	4.67	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	5.10	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.45	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	3.80	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	4.49	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	4.78	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	5.30	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	4.41	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	5.04	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	5.16	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	5.86	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	4.46	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	4.84	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	5.25	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.74	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	3.65	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	4.49	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	4.52	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	5.28	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	4.17	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.90	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	5.10	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	5.59	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	4.46	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.75	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	5.42	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.51	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	3.45	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.32	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	4.43	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	5.13	13	PASS

Band4	10MHz	QPSK	20000	1RB#0	4.20	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	4.99	13	PASS
Band4	10MHz	16QAM	20000	1RB#0	5.07	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.46	13	PASS
Band4	10MHz	QPSK	20175	1RB#0	4.93	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	4.67	13	PASS
Band4	10MHz	16QAM	20175	1RB#0	5.62	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.46	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	3.68	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	4.38	13	PASS
Band4	10MHz	16QAM	20350	1RB#0	4.55	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.46	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	4.06	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	5.25	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	4.93	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	4.87	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	4.90	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	6.00	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	3.48	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	4.43	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	4.35	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	4.20	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.04	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	5.19	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	5.01	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.75	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	5.62	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	3.77	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.38	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	4.96	13	PASS

Test Graphs



