



4G Cloud Dashcam Driving Recorder

M/N:D01

FCC ID:2BM95-D01

Applicant:AIPLUS INNOVATION INC.

Appendix for LTE Band 12



Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.15	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.05	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.16	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	24.06	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	24.12	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	24.02	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.06	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.82	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.88	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.86	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	23.04	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.98	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	23.10	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.32	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.95	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.99	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.04	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	24.12	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	24.18	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.15	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.17	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.20	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.06	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.18	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.96	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.95	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.90	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.71	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.99	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.99	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.92	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.90	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.90	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.95	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.95	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.23	PASS



Band12	1.4MHz	16QAM	23173	1RB#2	23.24	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.21	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.55	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.45	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.53	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.13	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.05	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.04	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.12	PASS
Band12	3MHz	QPSK	23025	8RB#0	23.05	PASS
Band12	3MHz	QPSK	23025	8RB#4	23.07	PASS
Band12	3MHz	QPSK	23025	8RB#7	23.14	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.08	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.76	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.80	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.82	PASS
Band12	3MHz	16QAM	23025	8RB#0	22.26	PASS
Band12	3MHz	16QAM	23025	8RB#4	22.26	PASS
Band12	3MHz	16QAM	23025	8RB#7	22.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.11	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.13	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.23	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.13	PASS
Band12	3MHz	QPSK	23095	8RB#0	23.11	PASS
Band12	3MHz	QPSK	23095	8RB#4	23.21	PASS
Band12	3MHz	QPSK	23095	8RB#7	23.11	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.04	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.52	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.55	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.60	PASS
Band12	3MHz	16QAM	23095	8RB#0	22.15	PASS
Band12	3MHz	16QAM	23095	8RB#4	22.12	PASS
Band12	3MHz	16QAM	23095	8RB#7	22.65	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.46	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.04	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.99	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.02	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.96	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.97	PASS
Band12	3MHz	QPSK	23165	8RB#7	23.02	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.94	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.23	PASS



Band12	3MHz	16QAM	23165	1RB#8	23.17	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.21	PASS
Band12	3MHz	16QAM	23165	8RB#0	22.10	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.03	PASS
Band12	3MHz	16QAM	23165	8RB#7	22.13	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.99	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.12	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.18	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.26	PASS
Band12	5MHz	QPSK	23035	12RB#0	23.07	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.99	PASS
Band12	5MHz	QPSK	23035	12RB#13	23.12	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.14	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.56	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.57	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.51	PASS
Band12	5MHz	16QAM	23035	12RB#0	22.12	PASS
Band12	5MHz	16QAM	23035	12RB#6	22.12	PASS
Band12	5MHz	16QAM	23035	12RB#13	22.53	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.74	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.07	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.10	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.09	PASS
Band12	5MHz	QPSK	23095	12RB#0	23.07	PASS
Band12	5MHz	QPSK	23095	12RB#6	23.16	PASS
Band12	5MHz	QPSK	23095	12RB#13	23.08	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.06	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.27	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.23	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.29	PASS
Band12	5MHz	16QAM	23095	12RB#0	22.13	PASS
Band12	5MHz	16QAM	23095	12RB#6	22.19	PASS
Band12	5MHz	16QAM	23095	12RB#13	22.72	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.66	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.95	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.99	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.99	PASS
Band12	5MHz	QPSK	23155	12RB#0	23.03	PASS
Band12	5MHz	QPSK	23155	12RB#6	23.02	PASS
Band12	5MHz	QPSK	23155	12RB#13	23.07	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.12	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.62	PASS



Band12	5MHz	16QAM	23155	1RB#12	22.76	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.63	PASS
Band12	5MHz	16QAM	23155	12RB#0	22.39	PASS
Band12	5MHz	16QAM	23155	12RB#6	22.39	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.05	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.19	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.02	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.00	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.00	PASS
Band12	10MHz	QPSK	23060	25RB#0	23.17	PASS
Band12	10MHz	QPSK	23060	25RB#12	23.13	PASS
Band12	10MHz	QPSK	23060	25RB#25	23.12	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.01	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.23	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.22	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.20	PASS
Band12	10MHz	16QAM	23060	25RB#0	22.54	PASS
Band12	10MHz	16QAM	23060	25RB#12	22.53	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.99	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.11	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.21	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.30	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.32	PASS
Band12	10MHz	QPSK	23095	25RB#0	23.13	PASS
Band12	10MHz	QPSK	23095	25RB#12	23.15	PASS
Band12	10MHz	QPSK	23095	25RB#25	23.23	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.15	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.88	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.99	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.91	PASS
Band12	10MHz	16QAM	23095	25RB#0	22.22	PASS
Band12	10MHz	16QAM	23095	25RB#12	22.23	PASS
Band12	10MHz	16QAM	23095	25RB#25	22.23	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.62	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.90	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.05	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.07	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.94	PASS
Band12	10MHz	QPSK	23130	25RB#12	23.00	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.14	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.04	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.65	PASS



Band12	10MHz	16QAM	23130	1RB#24	23.67	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.68	PASS
Band12	10MHz	16QAM	23130	25RB#0	22.64	PASS
Band12	10MHz	16QAM	23130	25RB#12	22.60	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.25	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.16	PASS



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

Test Result

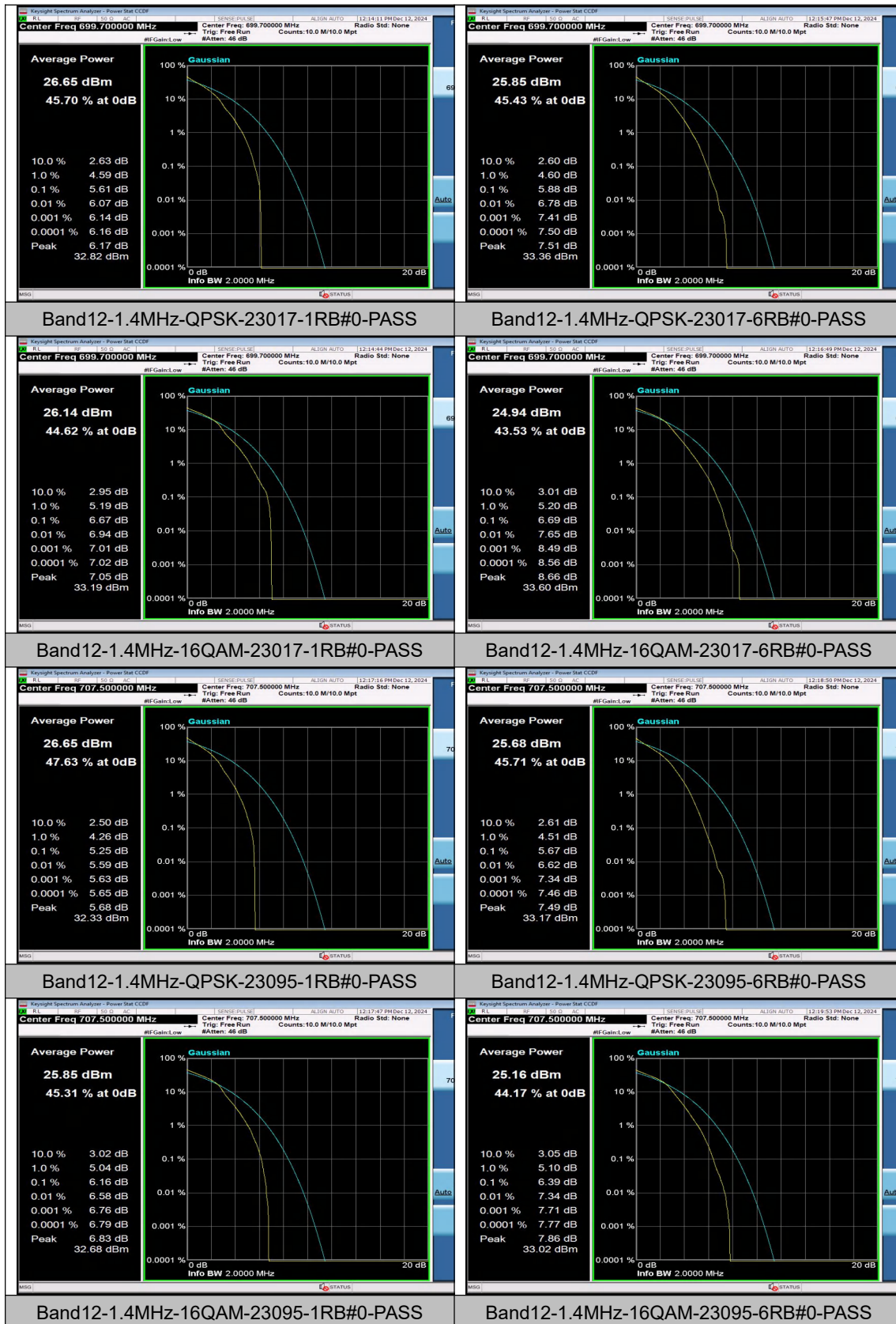
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	5.61	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.88	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	6.67	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.69	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	5.25	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.67	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	6.16	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.39	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	5.09	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.57	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	6.08	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.34	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	5.63	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.80	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	6.66	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.67	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	5.38	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.67	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	6.36	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.41	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	5.41	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.70	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	6.23	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.47	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.51	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.88	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	6.12	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.54	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.45	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.65	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	6.07	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.32	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.56	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.75	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	6.21	13	PASS

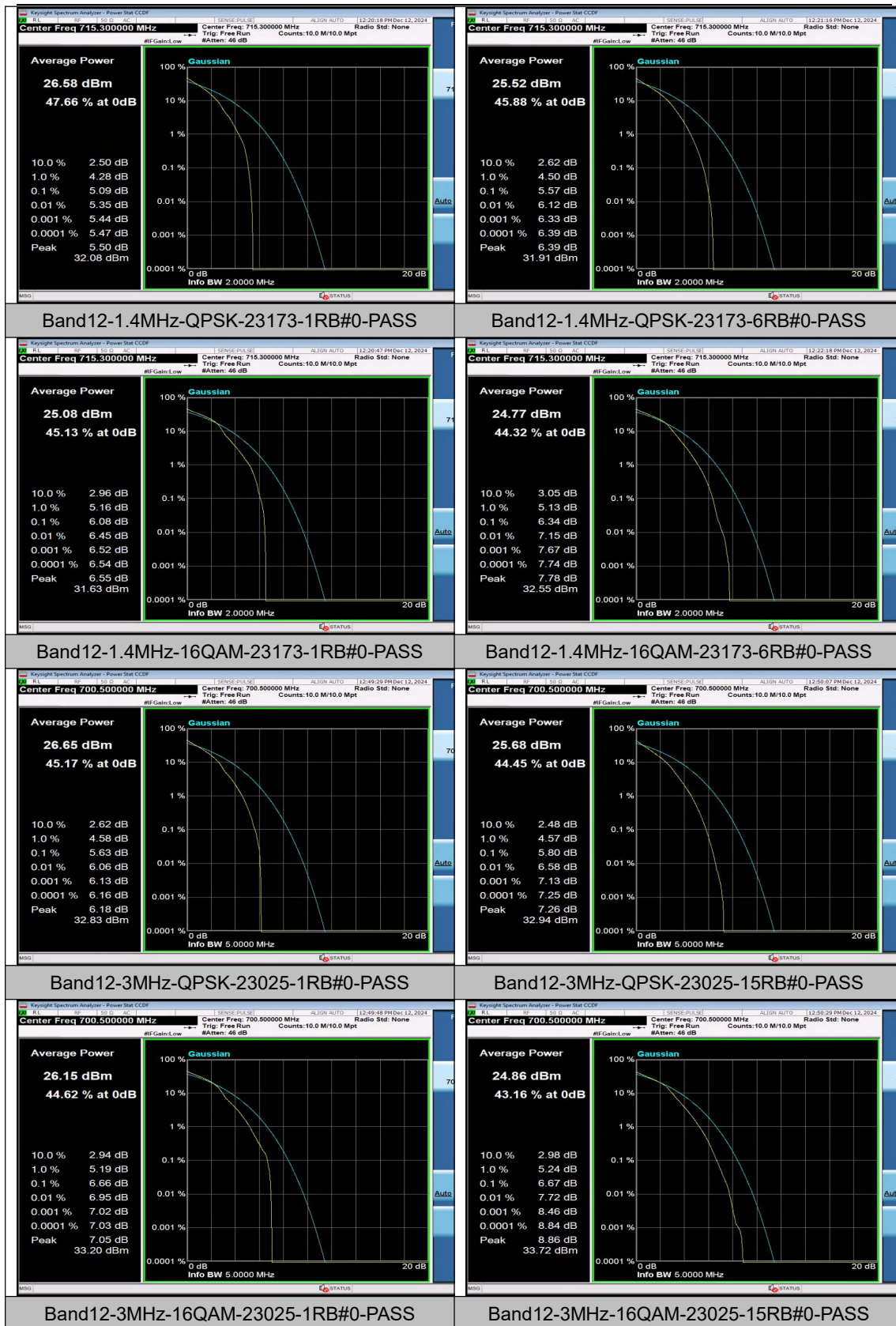


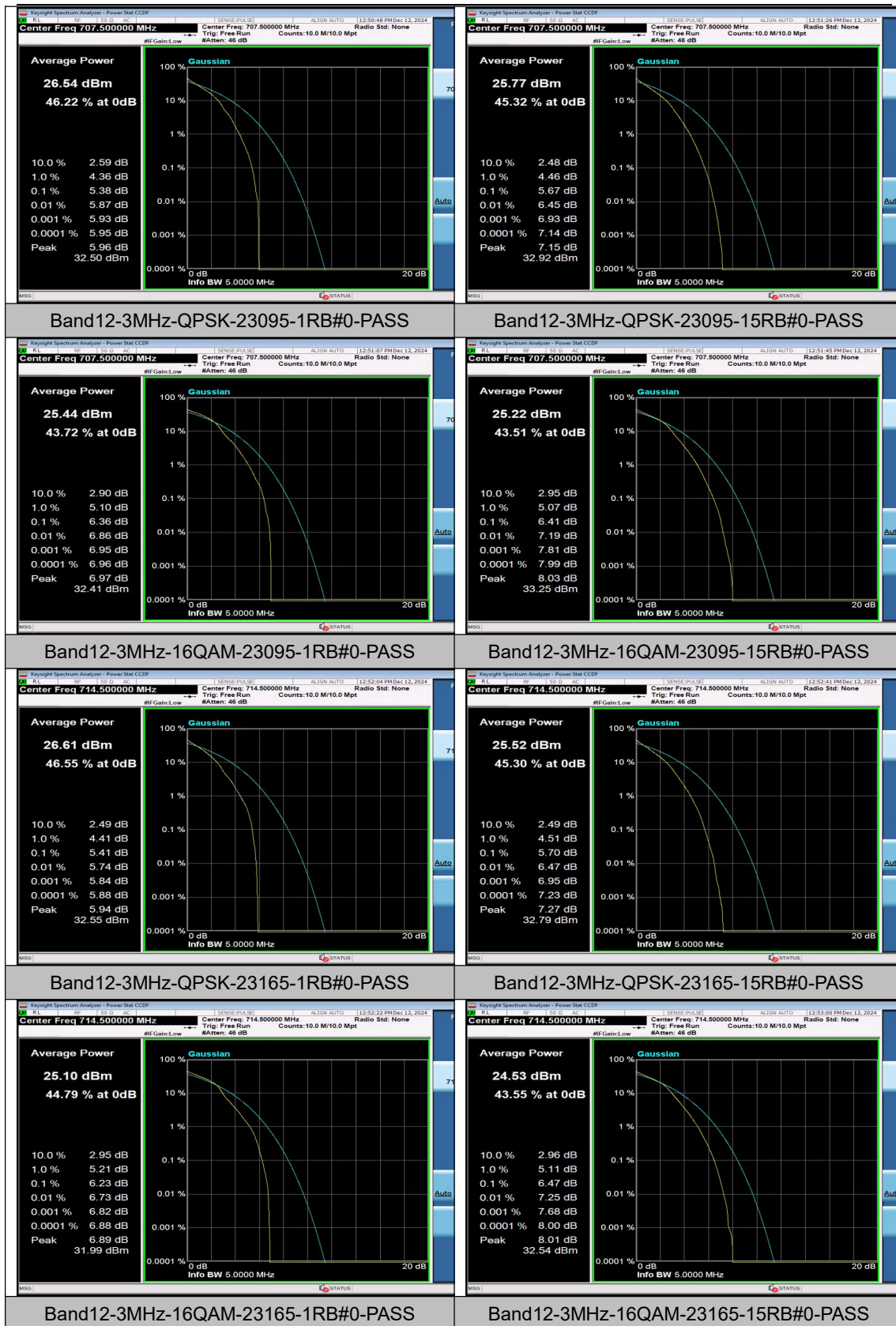
Band12	5MHz	16QAM	23155	25RB#0	6.42	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	5.61	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.73	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	6.43	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.53	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	5.58	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.60	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	6.40	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.38	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.17	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.84	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	6.01	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.55	13	PASS

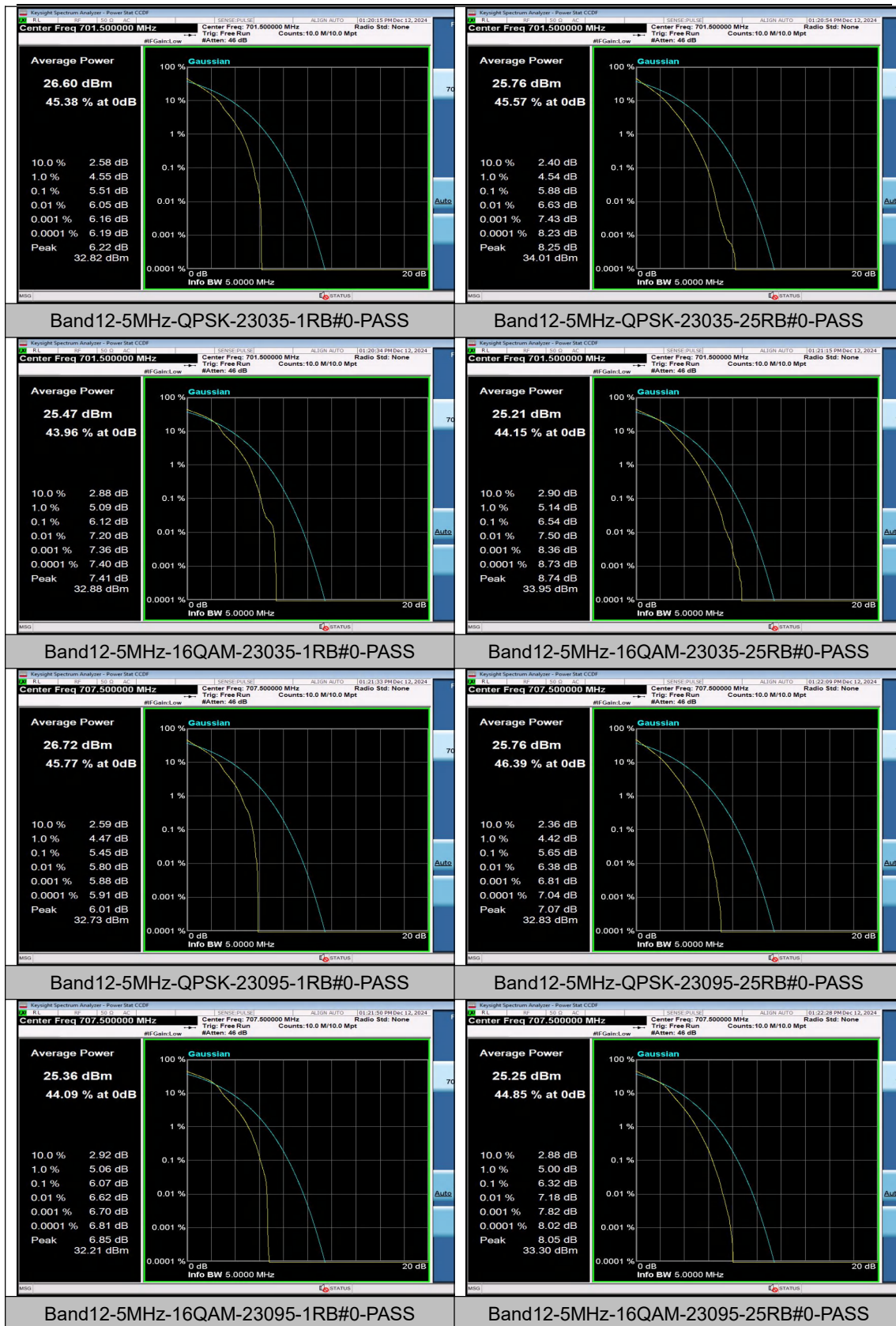


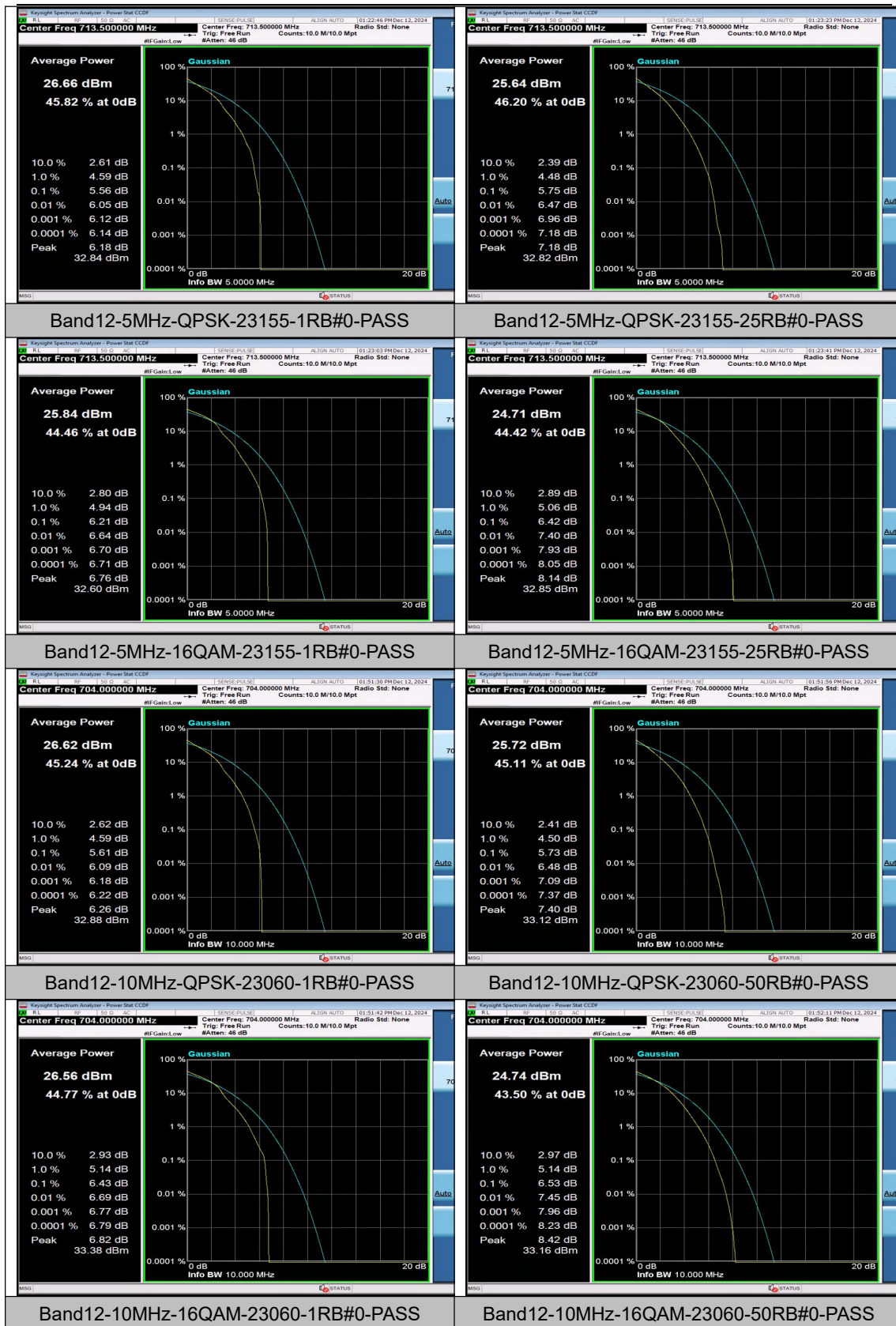
Test Graphs

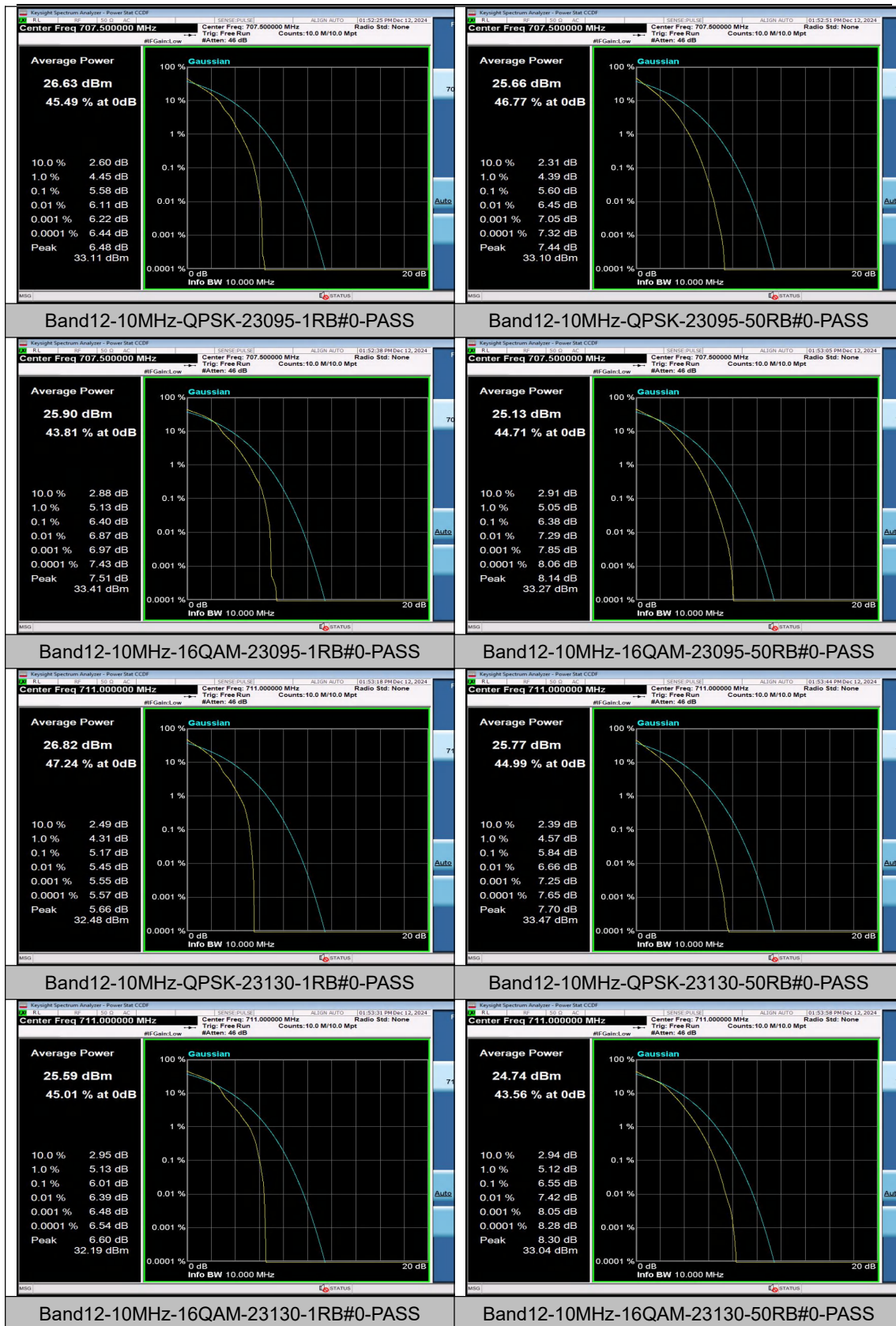














Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0930	1.240	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1003	1.251	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0911	1.253	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0954	1.246	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0981	1.243	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0894	1.241	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7114	3.021	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6957	3.013	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7037	3.023	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7049	3.026	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7172	3.038	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7040	3.026	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5164	4.985	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5105	4.976	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4962	4.969	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4998	4.977	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5174	5.003	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5364	5.020	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9792	9.838	PASS
Band12	10MHz	16QAM	23060	27RB#0	5.4414	8.412	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9785	9.888	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9714	9.896	PASS
Band12	10MHz	16QAM	23095	27RB#0	5.2308	7.113	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9474	9.848	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9966	9.899	PASS
Band12	10MHz	16QAM	23130	27RB#0	5.0753	7.036	PASS
Band12	10MHz	16QAM	23130	50RB#0	9.0230	9.909	PASS



Test Graphs



