

Appendix L: Test Data for E-UTRA Band 12

Product Name: Smart Phone

Test Model: ULTRA S26

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

L.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Power(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.99	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	25.09	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.94	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	25.06	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	25.10	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	25.05	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	25.00	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	24.71	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	25.46	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	24.63	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	24.18	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	24.72	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	24.21	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	23.56	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.75	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.71	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.51	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	24.53	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	24.66	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.57	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	24.53	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	24.91	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	24.92	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	24.60	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	23.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	24.14	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	23.75	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	23.30	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.07	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.03	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.03	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	24.28	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	24.28	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	24.09	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	24.02	PASS

Band12	1.4MHz	16QAM	23173	1RB#0	23.96	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	24.49	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.81	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	23.34	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	23.58	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	23.18	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.55	PASS
Band12	3MHz	QPSK	23025	1RB#0	25.16	PASS
Band12	3MHz	QPSK	23025	1RB#8	25.18	PASS
Band12	3MHz	QPSK	23025	1RB#14	25.20	PASS
Band12	3MHz	QPSK	23025	8RB#0	25.14	PASS
Band12	3MHz	QPSK	23025	8RB#4	25.08	PASS
Band12	3MHz	QPSK	23025	8RB#7	25.22	PASS
Band12	3MHz	QPSK	23025	15RB#0	25.08	PASS
Band12	3MHz	16QAM	23025	1RB#0	24.33	PASS
Band12	3MHz	16QAM	23025	1RB#8	24.93	PASS
Band12	3MHz	16QAM	23025	1RB#14	24.36	PASS
Band12	3MHz	16QAM	23025	8RB#0	23.70	PASS
Band12	3MHz	16QAM	23025	8RB#4	23.59	PASS
Band12	3MHz	16QAM	23025	8RB#7	24.15	PASS
Band12	3MHz	16QAM	23025	15RB#0	23.50	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.90	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.47	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.53	PASS
Band12	3MHz	QPSK	23095	8RB#0	24.84	PASS
Band12	3MHz	QPSK	23095	8RB#4	24.63	PASS
Band12	3MHz	QPSK	23095	8RB#7	24.55	PASS
Band12	3MHz	QPSK	23095	15RB#0	24.71	PASS
Band12	3MHz	16QAM	23095	1RB#0	24.83	PASS
Band12	3MHz	16QAM	23095	1RB#8	24.69	PASS
Band12	3MHz	16QAM	23095	1RB#14	24.57	PASS
Band12	3MHz	16QAM	23095	8RB#0	23.52	PASS
Band12	3MHz	16QAM	23095	8RB#4	23.53	PASS
Band12	3MHz	16QAM	23095	8RB#7	23.50	PASS
Band12	3MHz	16QAM	23095	15RB#0	23.37	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.25	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.26	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.09	PASS
Band12	3MHz	QPSK	23165	8RB#0	24.19	PASS
Band12	3MHz	QPSK	23165	8RB#4	24.23	PASS
Band12	3MHz	QPSK	23165	8RB#7	24.04	PASS

Band12	3MHz	QPSK	23165	15RB#0	24.19	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.60	PASS
Band12	3MHz	16QAM	23165	1RB#8	24.52	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.41	PASS
Band12	3MHz	16QAM	23165	8RB#0	22.92	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.53	PASS
Band12	3MHz	16QAM	23165	8RB#7	22.70	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.63	PASS
Band12	5MHz	QPSK	23035	1RB#0	25.03	PASS
Band12	5MHz	QPSK	23035	1RB#12	25.04	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.84	PASS
Band12	5MHz	QPSK	23035	12RB#0	24.97	PASS
Band12	5MHz	QPSK	23035	12RB#6	25.28	PASS
Band12	5MHz	QPSK	23035	12RB#13	25.18	PASS
Band12	5MHz	QPSK	23035	25RB#0	25.18	PASS
Band12	5MHz	16QAM	23035	1RB#0	24.71	PASS
Band12	5MHz	16QAM	23035	1RB#12	25.06	PASS
Band12	5MHz	16QAM	23035	1RB#24	24.50	PASS
Band12	5MHz	16QAM	23035	12RB#0	23.59	PASS
Band12	5MHz	16QAM	23035	12RB#6	24.01	PASS
Band12	5MHz	16QAM	23035	12RB#13	24.09	PASS
Band12	5MHz	16QAM	23035	25RB#0	23.91	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.93	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.80	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.72	PASS
Band12	5MHz	QPSK	23095	12RB#0	24.87	PASS
Band12	5MHz	QPSK	23095	12RB#6	24.63	PASS
Band12	5MHz	QPSK	23095	12RB#13	24.64	PASS
Band12	5MHz	QPSK	23095	25RB#0	24.70	PASS
Band12	5MHz	16QAM	23095	1RB#0	24.27	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.65	PASS
Band12	5MHz	16QAM	23095	1RB#24	24.12	PASS
Band12	5MHz	16QAM	23095	12RB#0	23.34	PASS
Band12	5MHz	16QAM	23095	12RB#6	23.29	PASS
Band12	5MHz	16QAM	23095	12RB#13	23.37	PASS
Band12	5MHz	16QAM	23095	25RB#0	23.34	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.33	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.07	PASS
Band12	5MHz	QPSK	23155	1RB#24	24.08	PASS
Band12	5MHz	QPSK	23155	12RB#0	24.36	PASS
Band12	5MHz	QPSK	23155	12RB#6	24.23	PASS

Band12	5MHz	QPSK	23155	12RB#13	24.20	PASS
Band12	5MHz	QPSK	23155	25RB#0	24.23	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.24	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.61	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.89	PASS
Band12	5MHz	16QAM	23155	12RB#0	22.87	PASS
Band12	5MHz	16QAM	23155	12RB#6	22.66	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.61	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.82	PASS
Band12	10MHz	QPSK	23060	1RB#0	25.01	PASS
Band12	10MHz	QPSK	23060	1RB#24	25.10	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.55	PASS
Band12	10MHz	QPSK	23060	25RB#0	25.31	PASS
Band12	10MHz	QPSK	23060	25RB#12	24.88	PASS
Band12	10MHz	QPSK	23060	25RB#25	24.95	PASS
Band12	10MHz	QPSK	23060	50RB#0	24.94	PASS
Band12	10MHz	16QAM	23060	1RB#0	24.34	PASS
Band12	10MHz	16QAM	23060	1RB#24	25.23	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.83	PASS
Band12	10MHz	16QAM	23060	25RB#0	24.18	PASS
Band12	10MHz	16QAM	23060	25RB#12	23.55	PASS
Band12	10MHz	16QAM	23060	25RB#25	23.54	PASS
Band12	10MHz	16QAM	23060	50RB#0	23.41	PASS
Band12	10MHz	QPSK	23095	1RB#0	25.27	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.58	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.53	PASS
Band12	10MHz	QPSK	23095	25RB#0	24.88	PASS
Band12	10MHz	QPSK	23095	25RB#12	24.70	PASS
Band12	10MHz	QPSK	23095	25RB#25	24.66	PASS
Band12	10MHz	QPSK	23095	50RB#0	24.69	PASS
Band12	10MHz	16QAM	23095	1RB#0	24.36	PASS
Band12	10MHz	16QAM	23095	1RB#24	24.18	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.70	PASS
Band12	10MHz	16QAM	23095	25RB#0	23.52	PASS
Band12	10MHz	16QAM	23095	25RB#12	23.46	PASS
Band12	10MHz	16QAM	23095	25RB#25	23.43	PASS
Band12	10MHz	16QAM	23095	50RB#0	23.48	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.88	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.78	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.08	PASS
Band12	10MHz	QPSK	23130	25RB#0	24.68	PASS

Band12	10MHz	QPSK	23130	25RB#12	24.62	PASS
Band12	10MHz	QPSK	23130	25RB#25	24.32	PASS
Band12	10MHz	QPSK	23130	50RB#0	24.66	PASS
Band12	10MHz	16QAM	23130	1RB#0	24.03	PASS
Band12	10MHz	16QAM	23130	1RB#24	24.92	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.22	PASS
Band12	10MHz	16QAM	23130	25RB#0	23.35	PASS
Band12	10MHz	16QAM	23130	25RB#12	23.28	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.68	PASS
Band12	10MHz	16QAM	23130	50RB#0	23.40	PASS

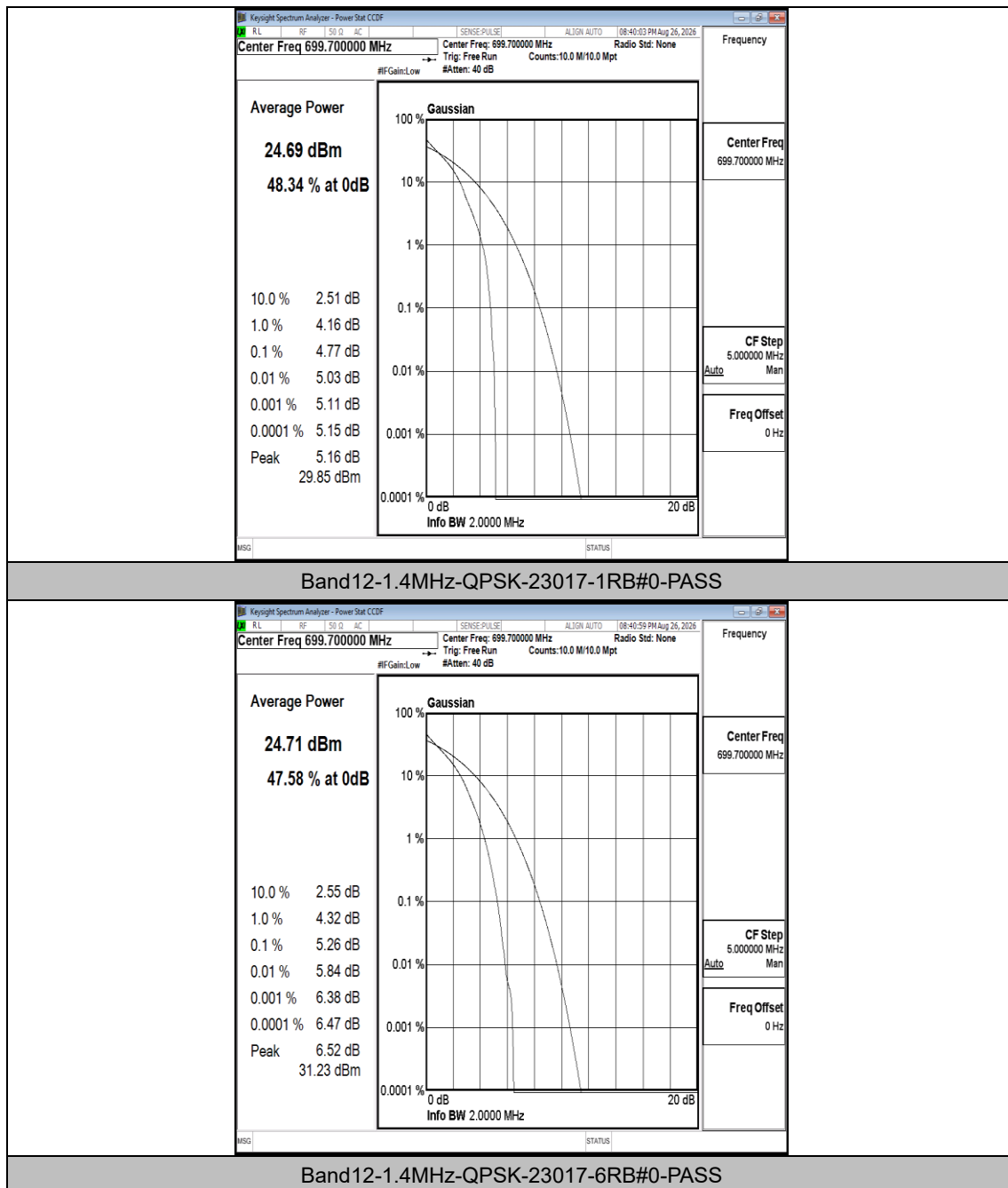
L.2 Peak-to-Average Ratio(CCDF)

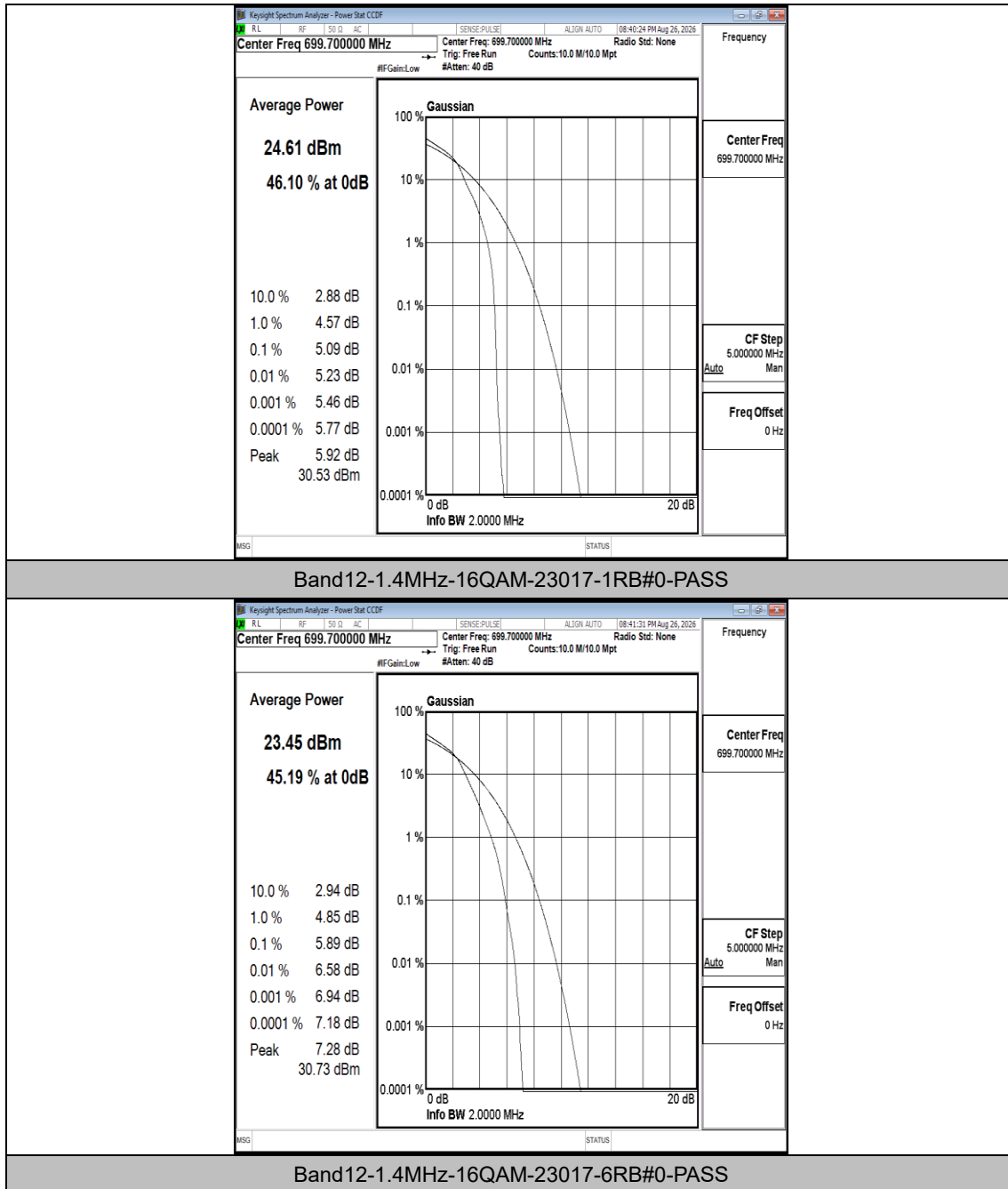
Test Result

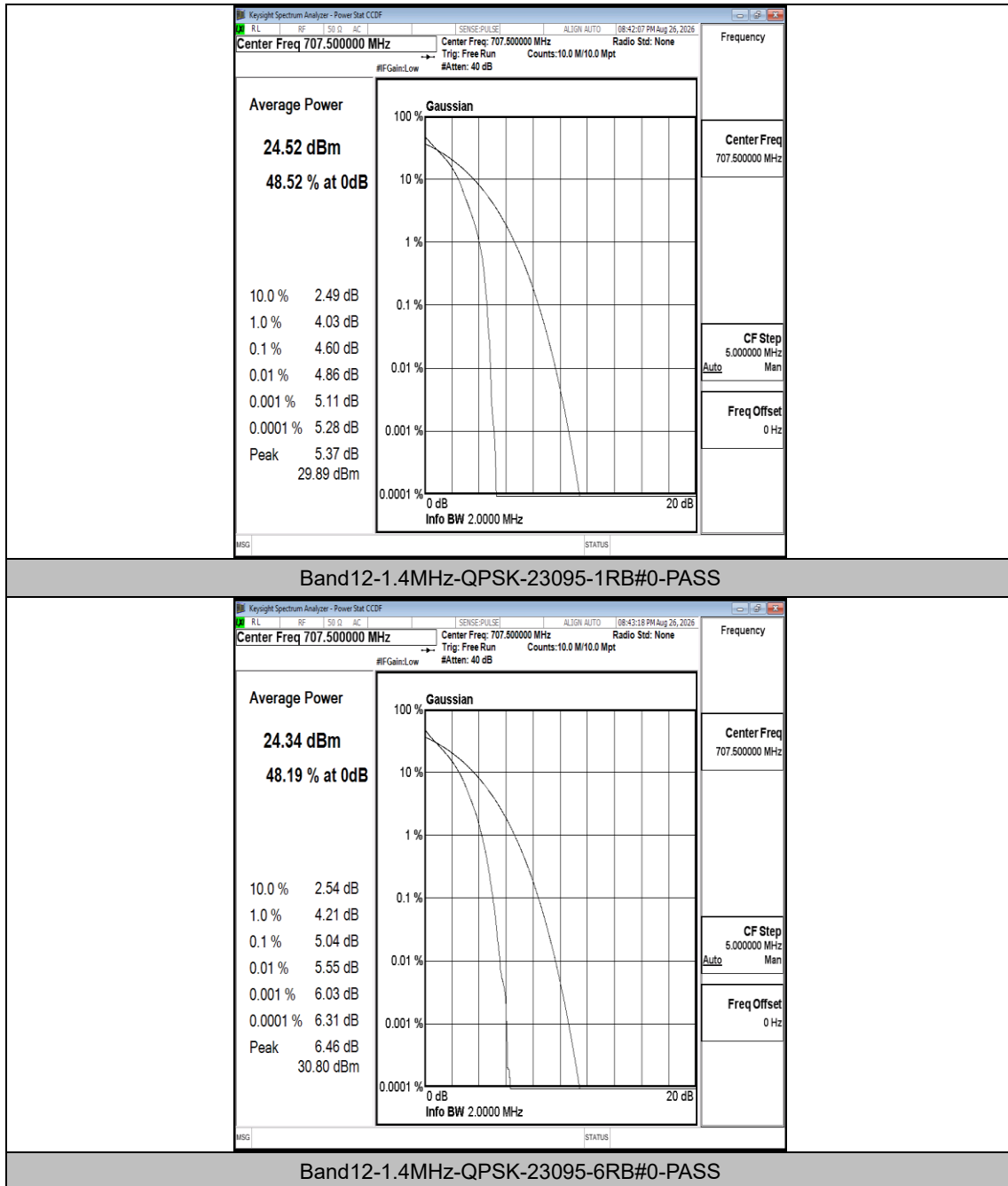
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.77	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.26	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.09	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.89	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.60	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.04	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	4.88	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.84	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.55	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.84	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.03	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.69	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.87	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.26	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.59	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.18	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.65	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.34	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.50	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.16	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	5.11	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.25	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.94	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.21	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.00	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.21	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.70	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.94	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.80	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.36	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.48	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.08	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.50	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.38	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.98	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.18	13	PASS

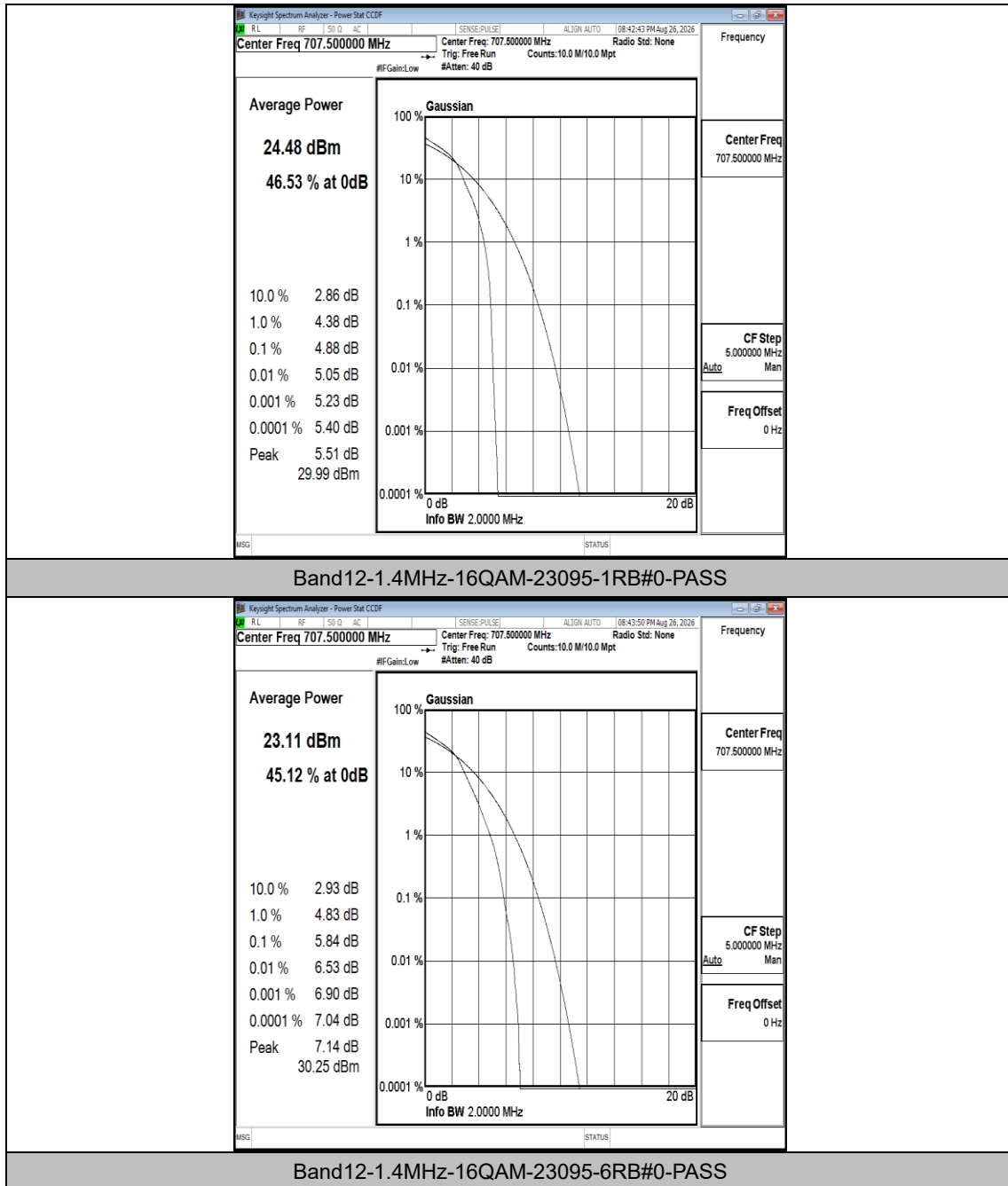
Band12	10MHz	QPSK	23060	1RB#0	4.80	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.28	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.63	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.10	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.54	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.37	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.40	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.12	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.65	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.26	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.33	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.09	13	PASS

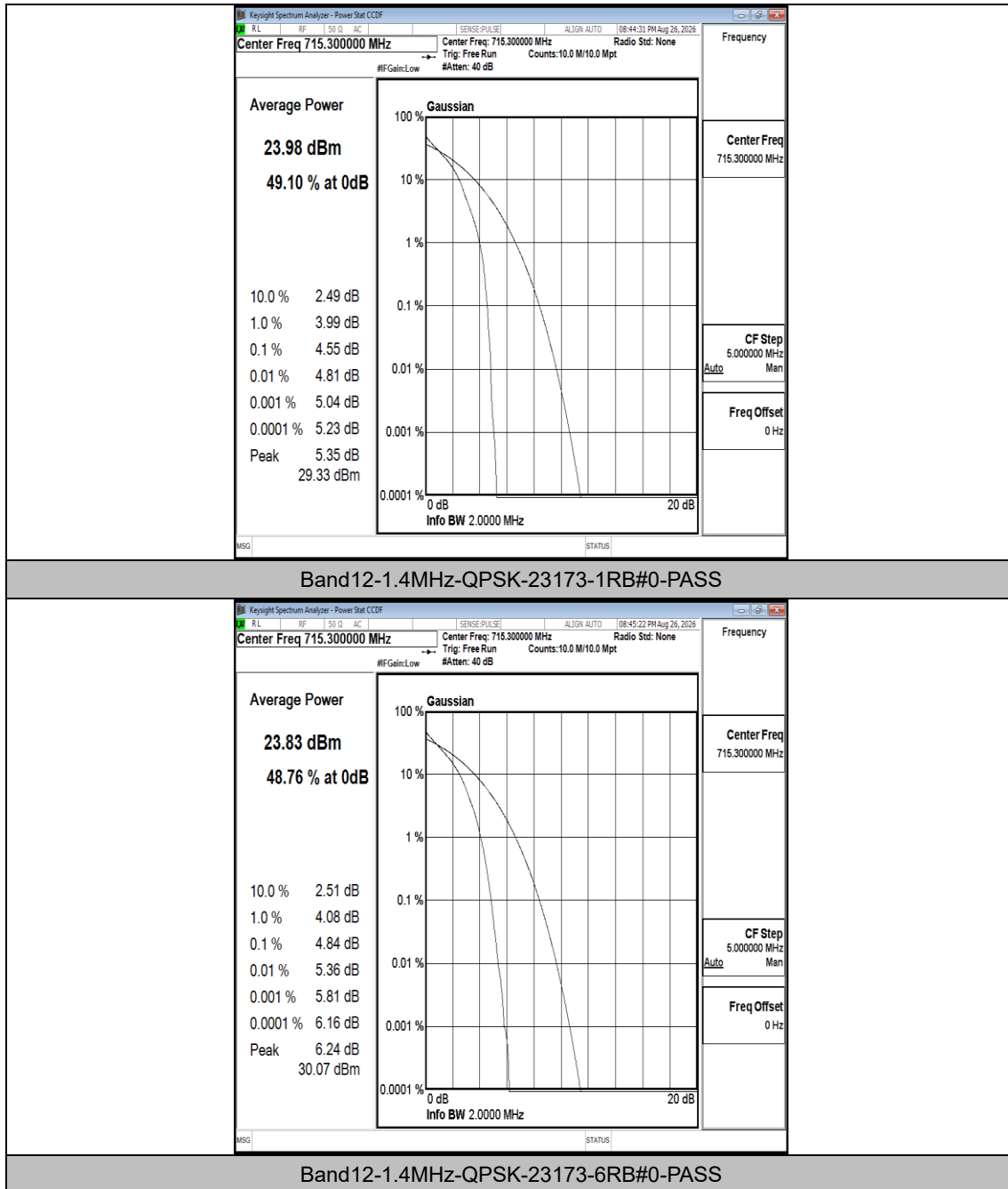
Test Graphs

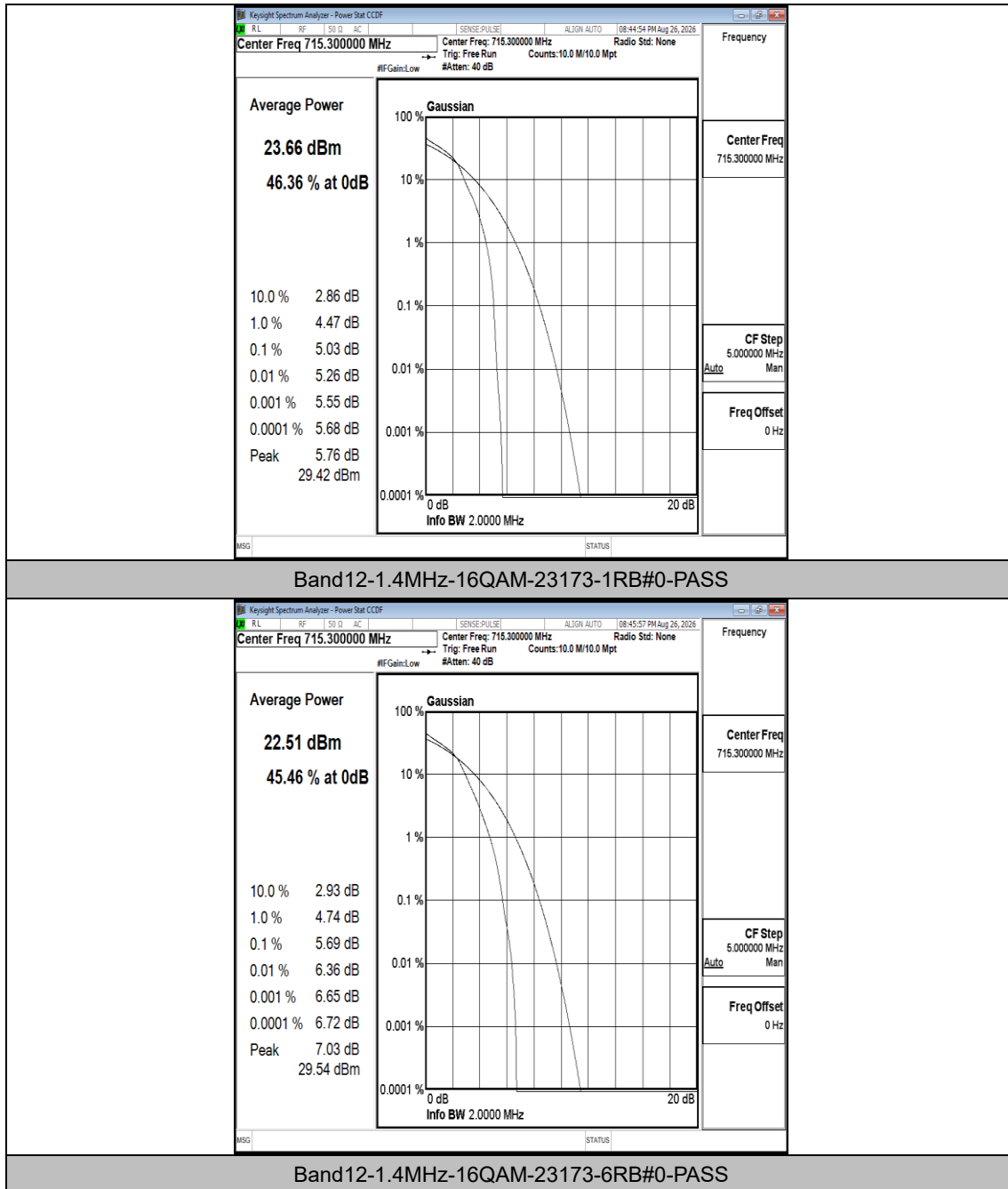


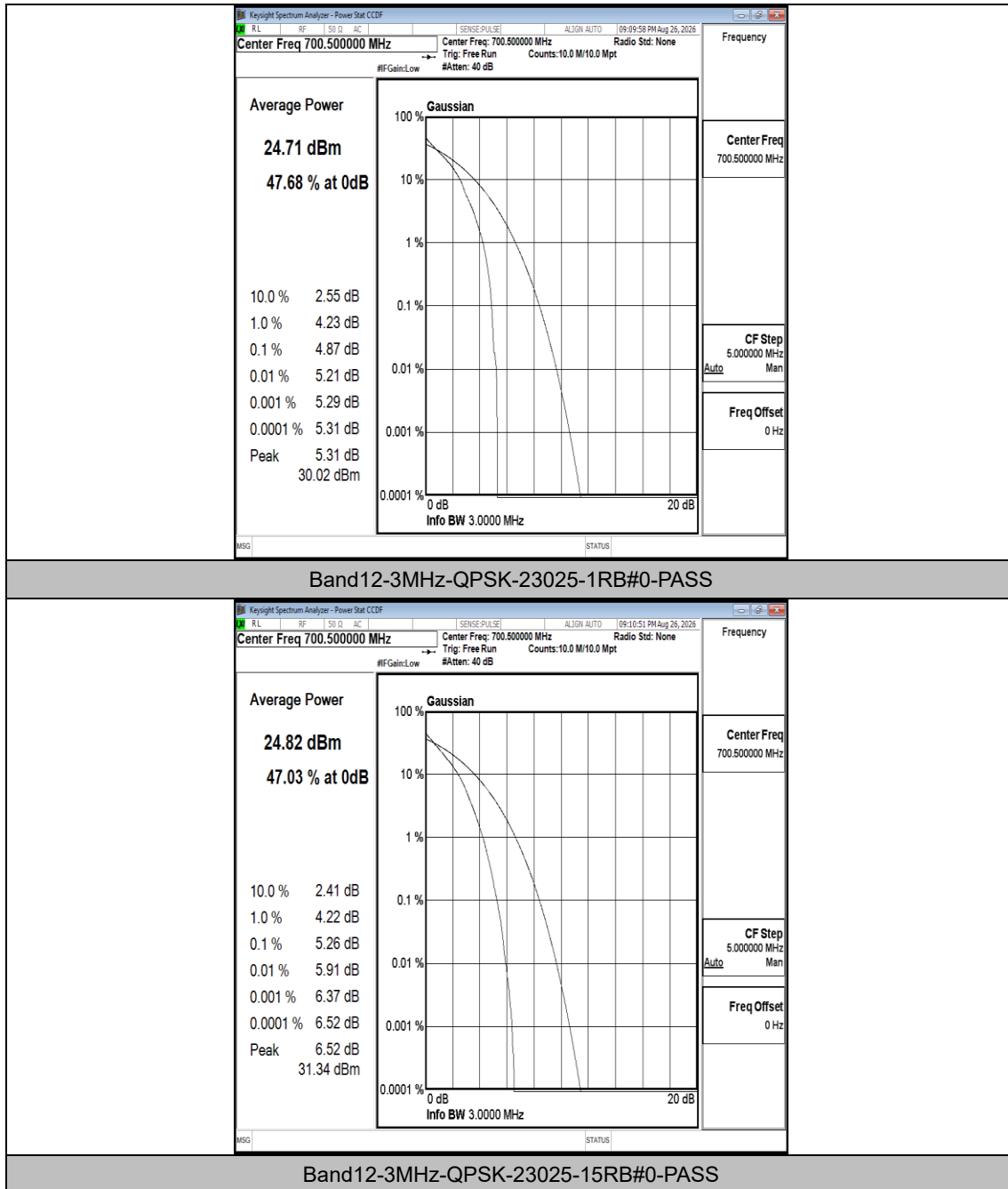


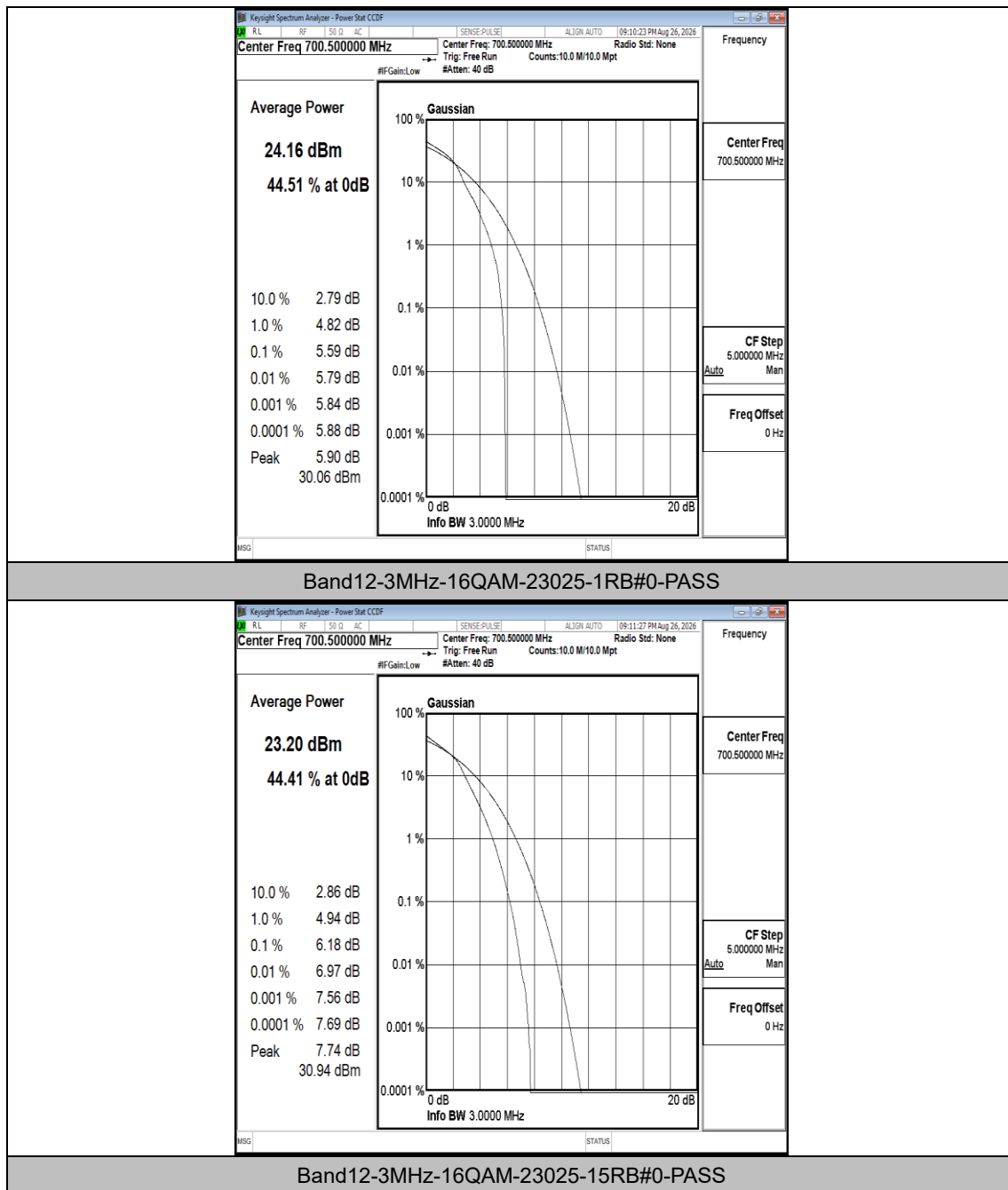


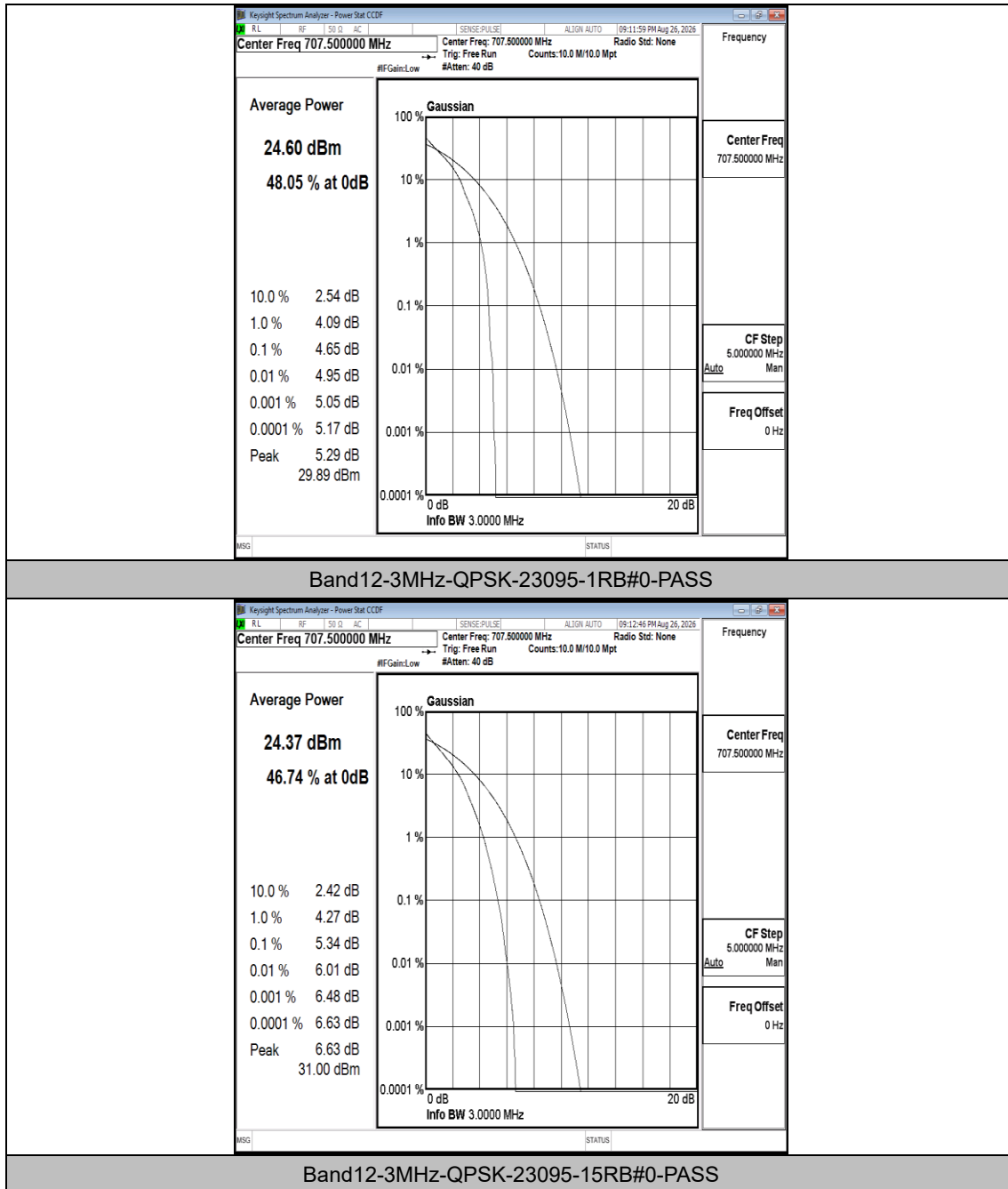


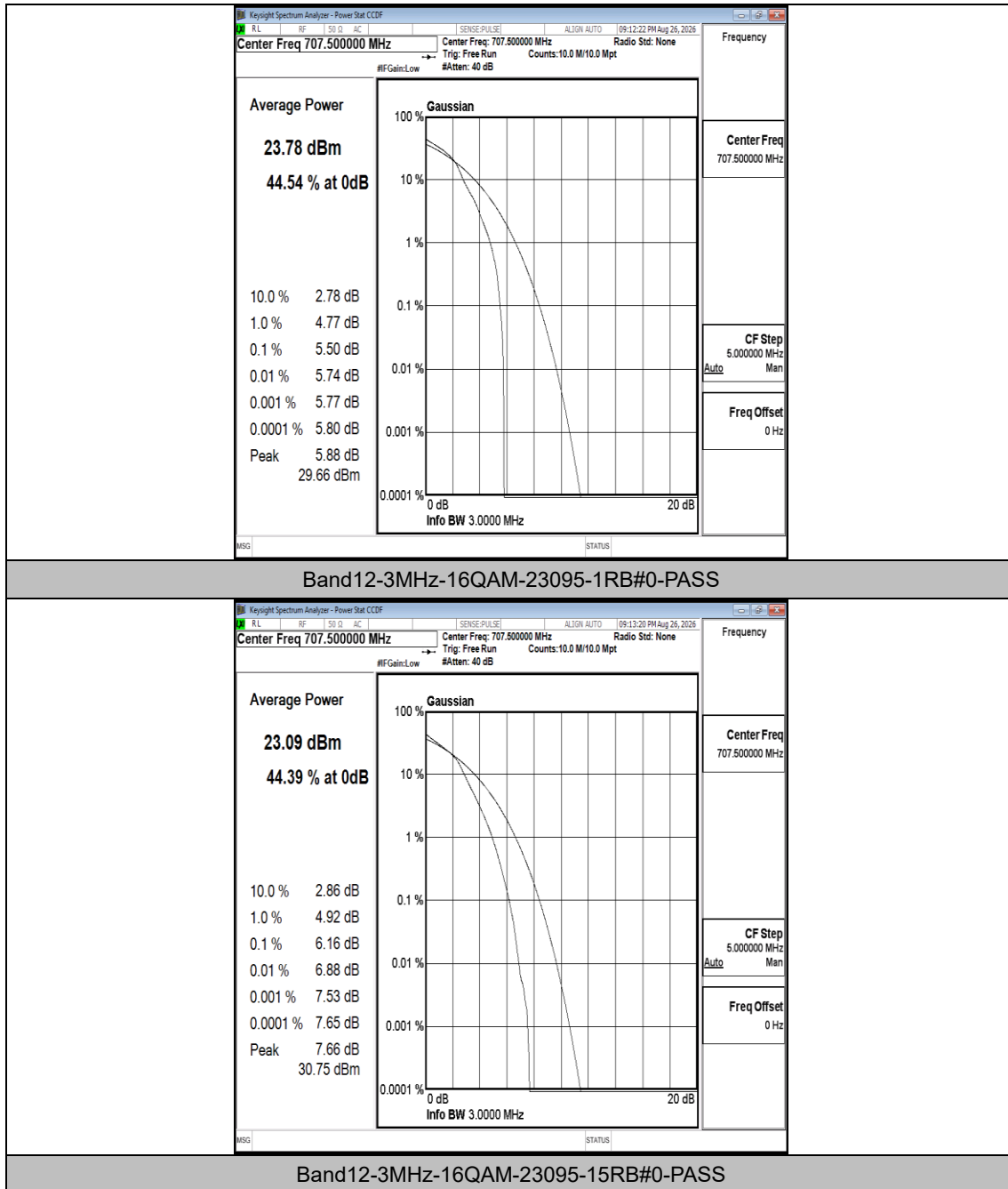


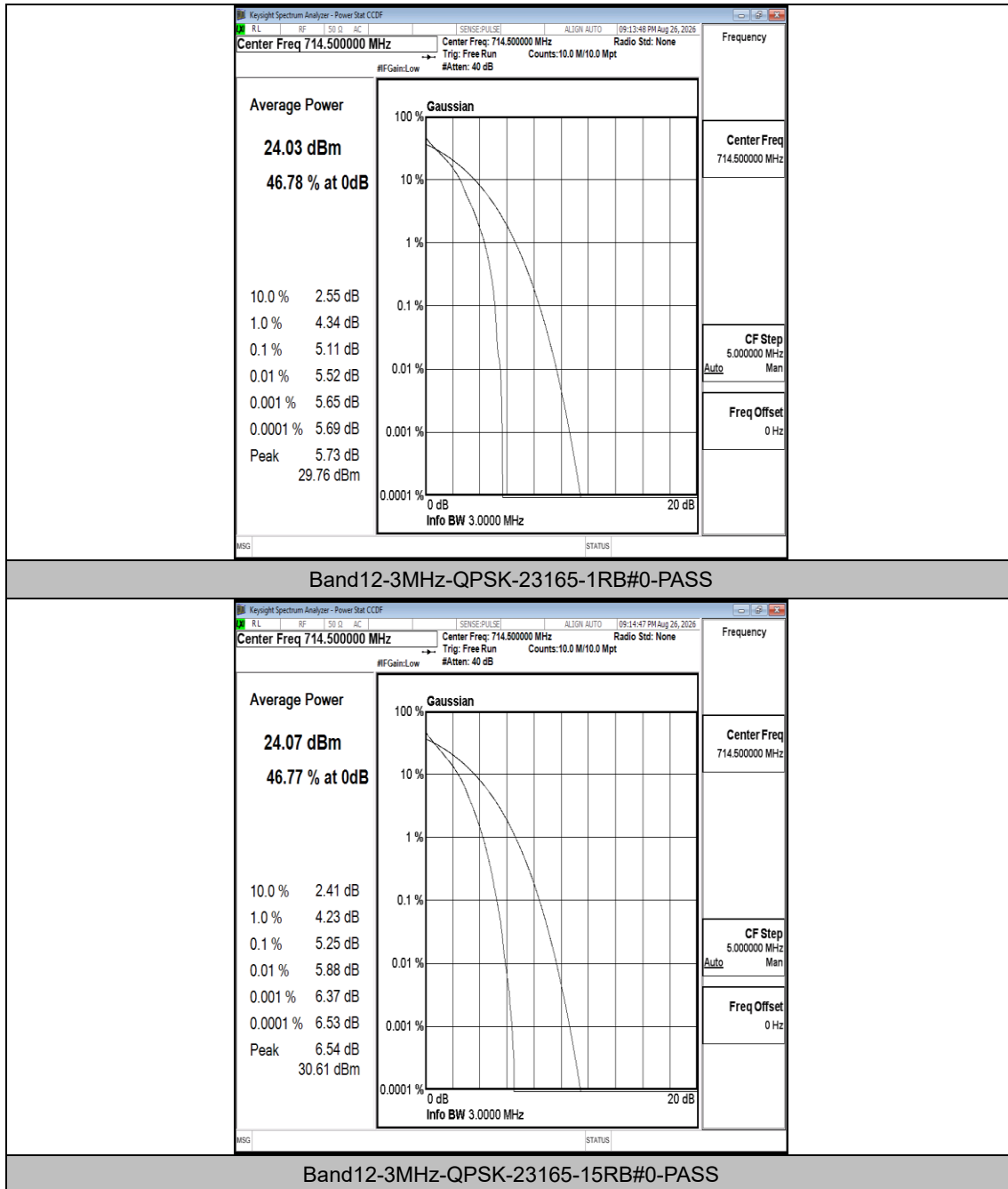


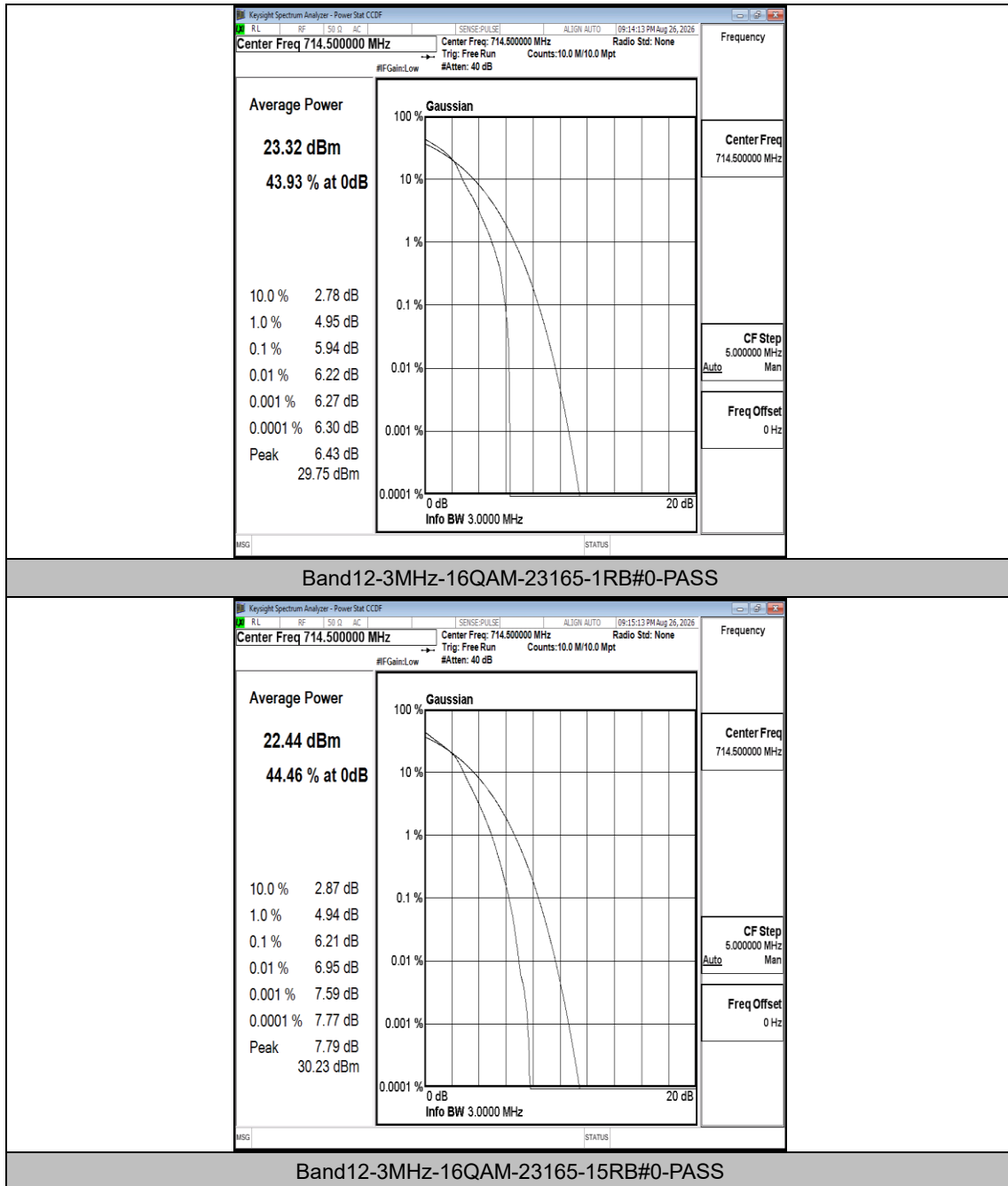


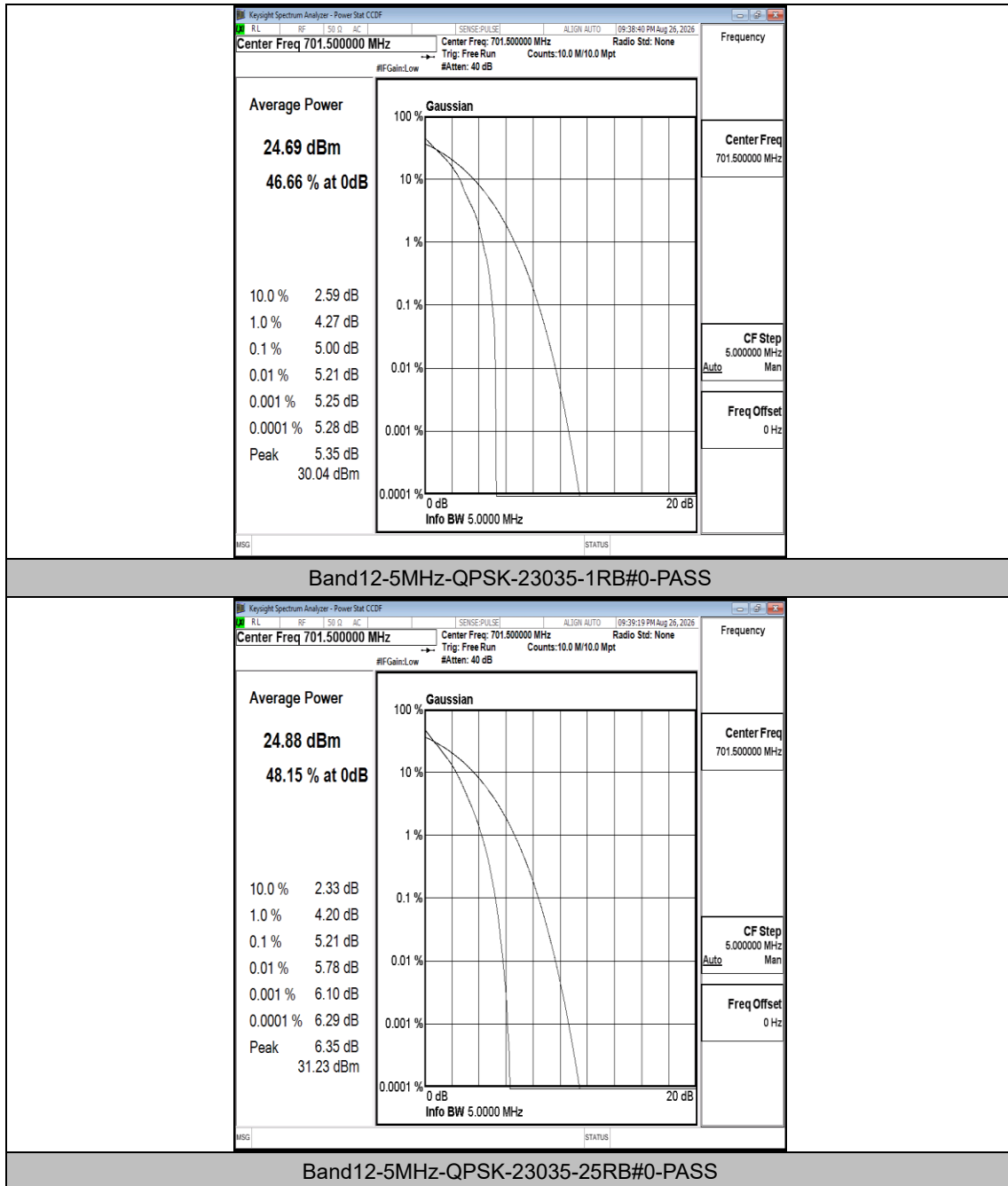


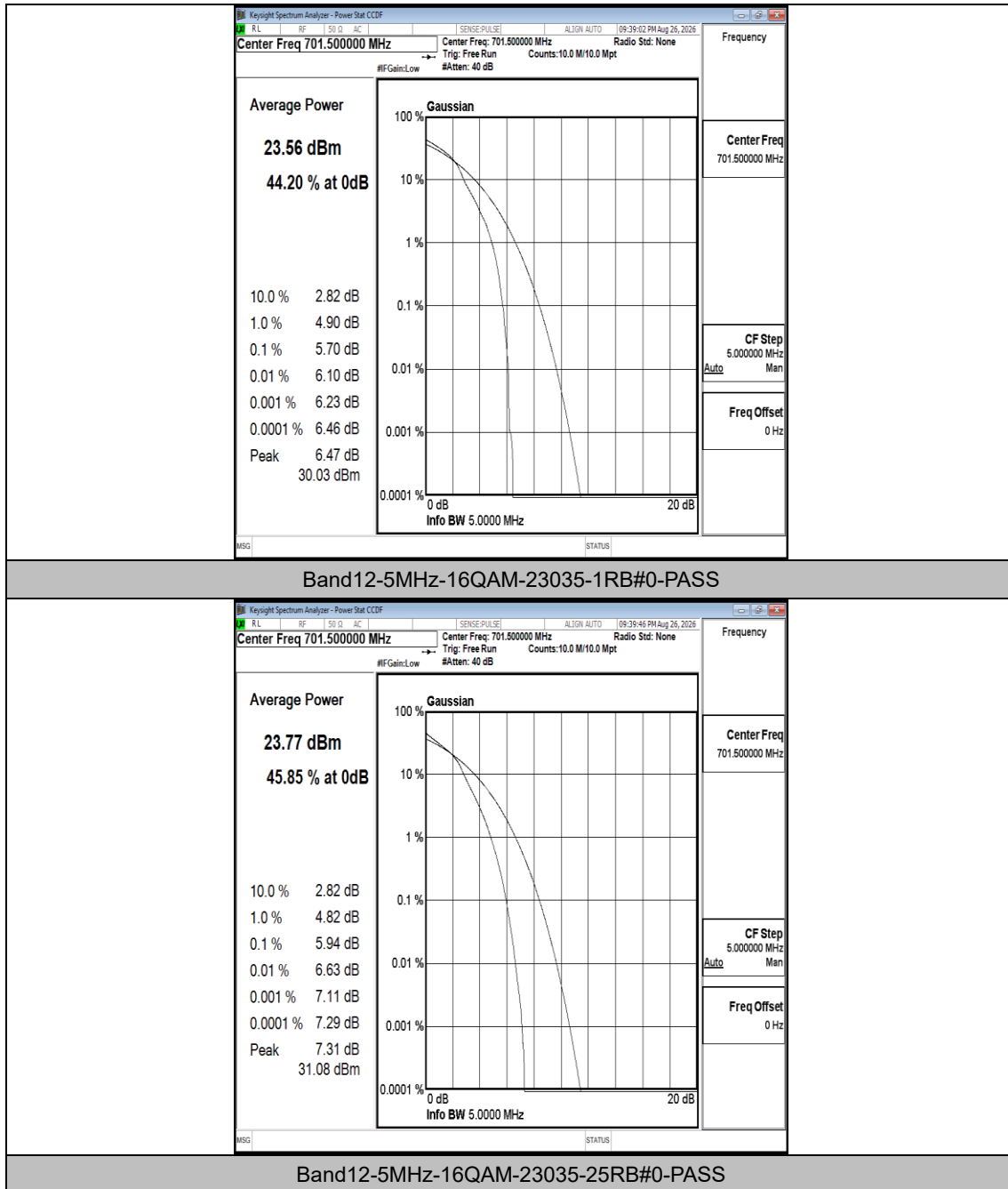


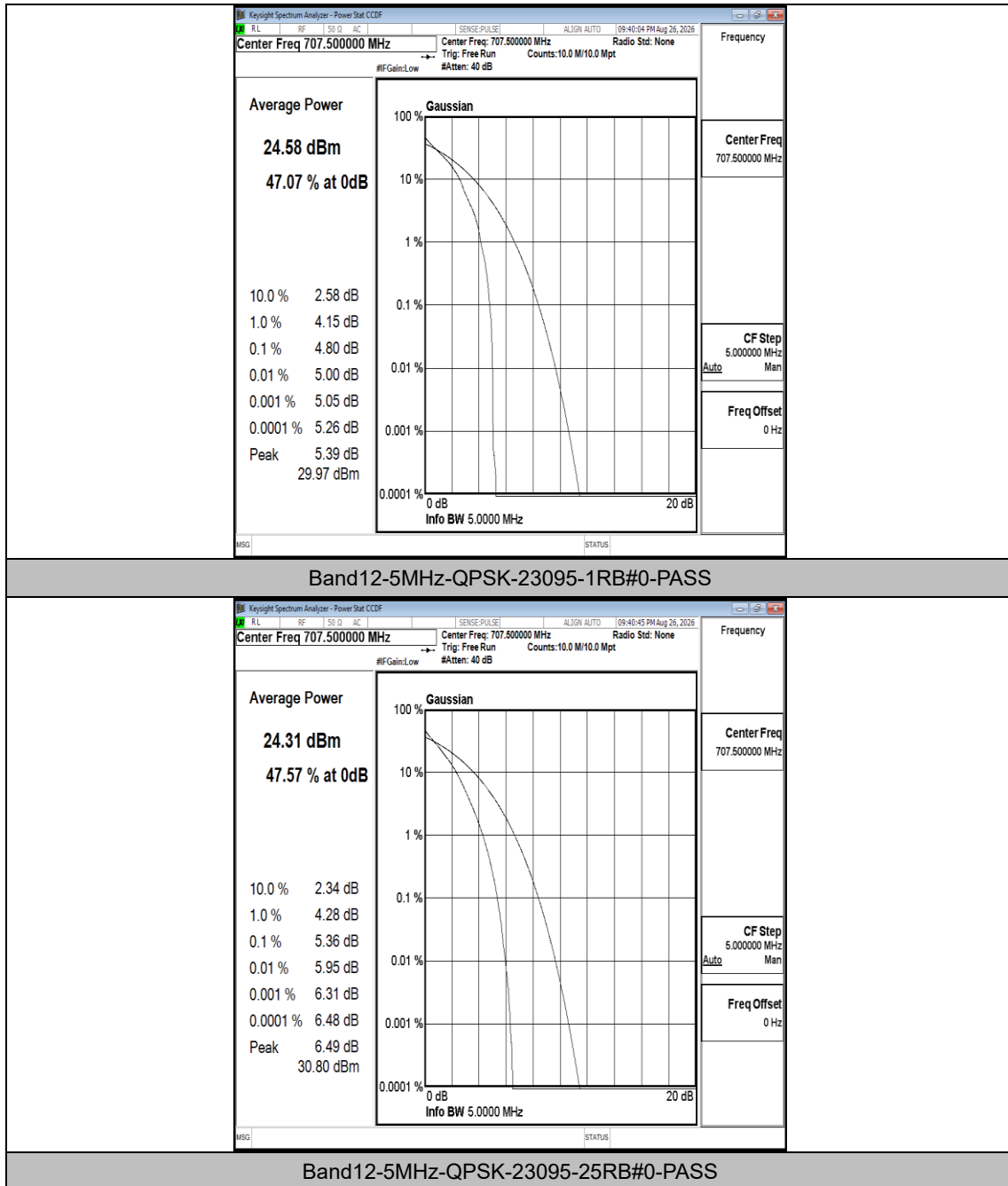


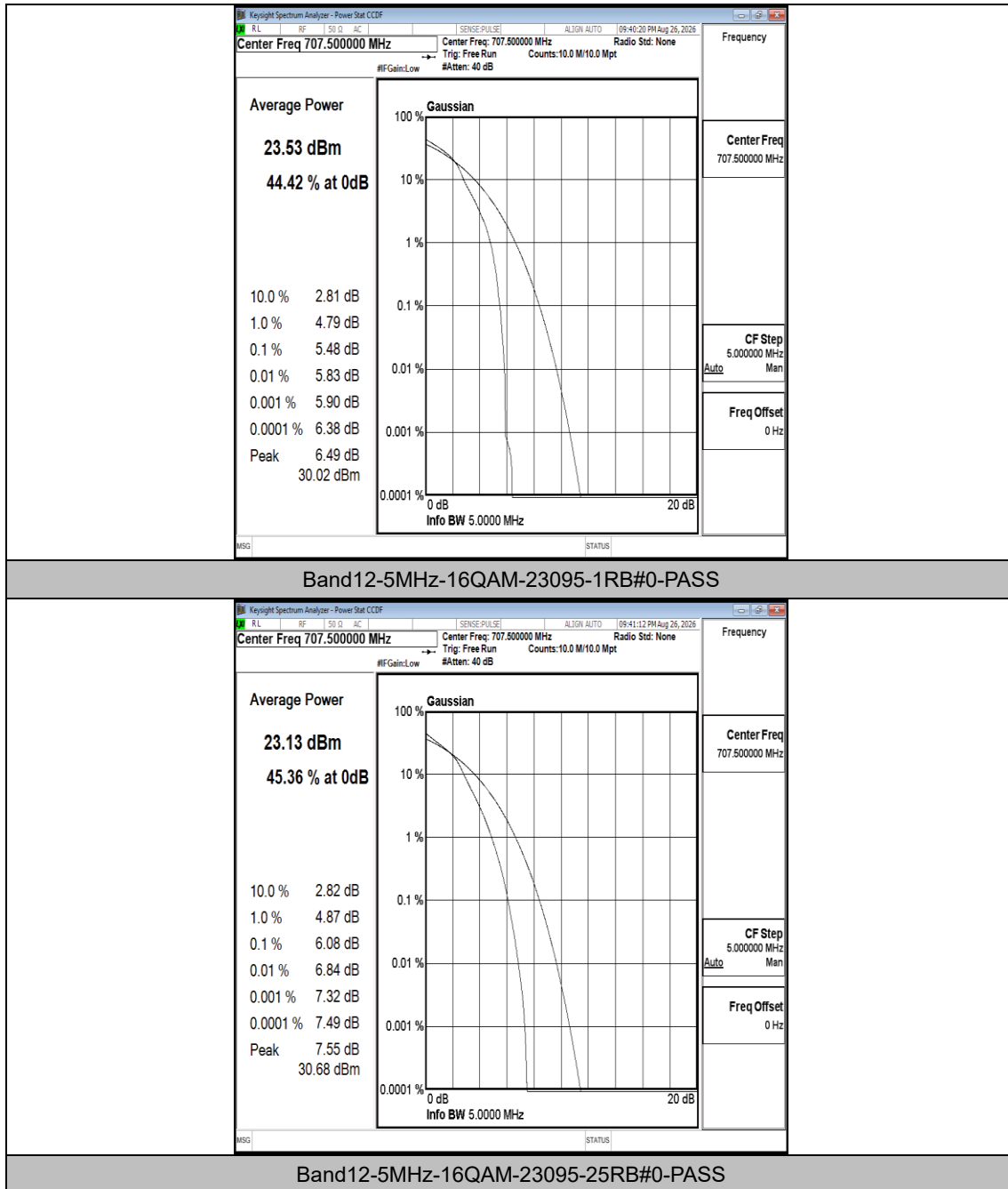


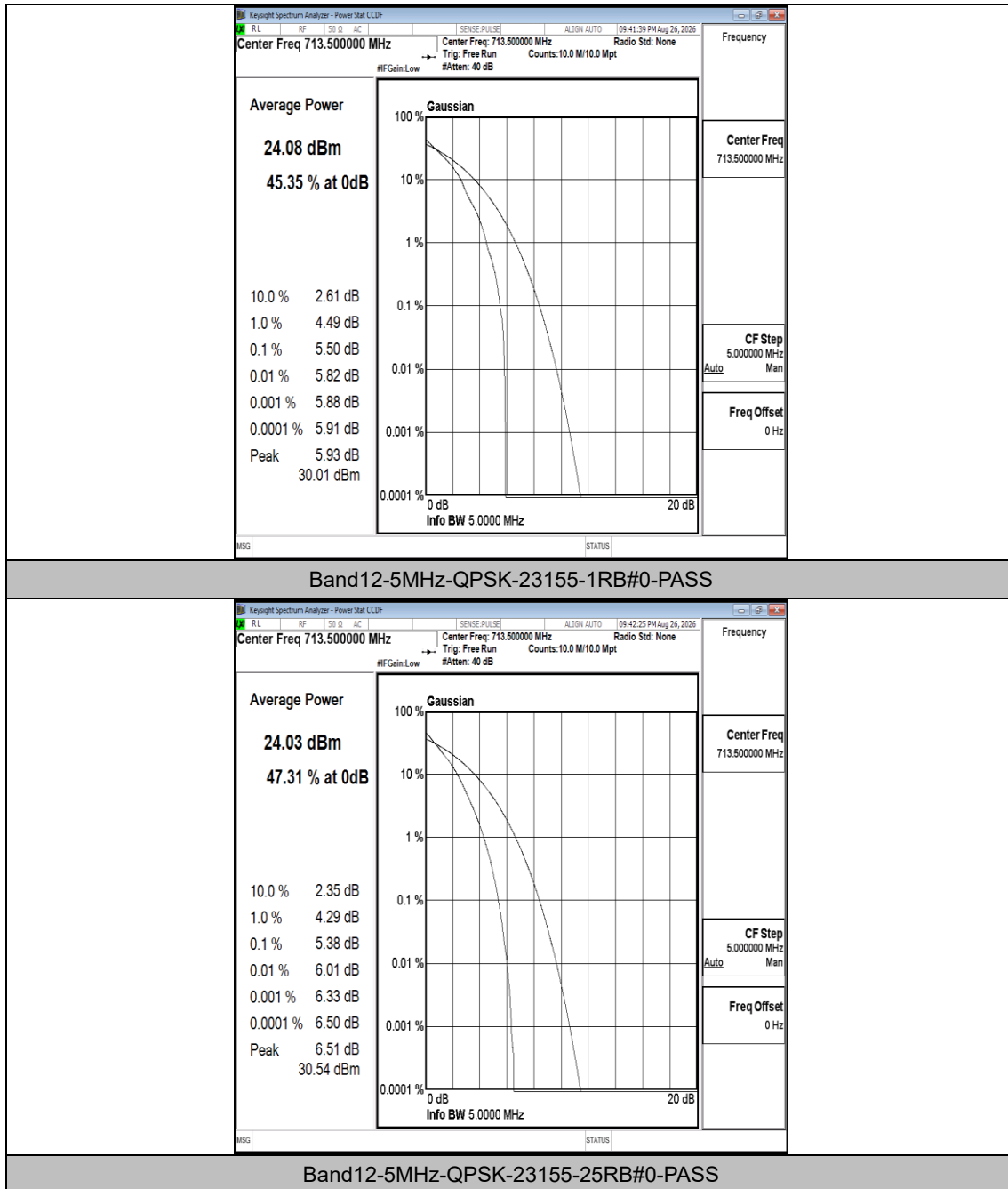


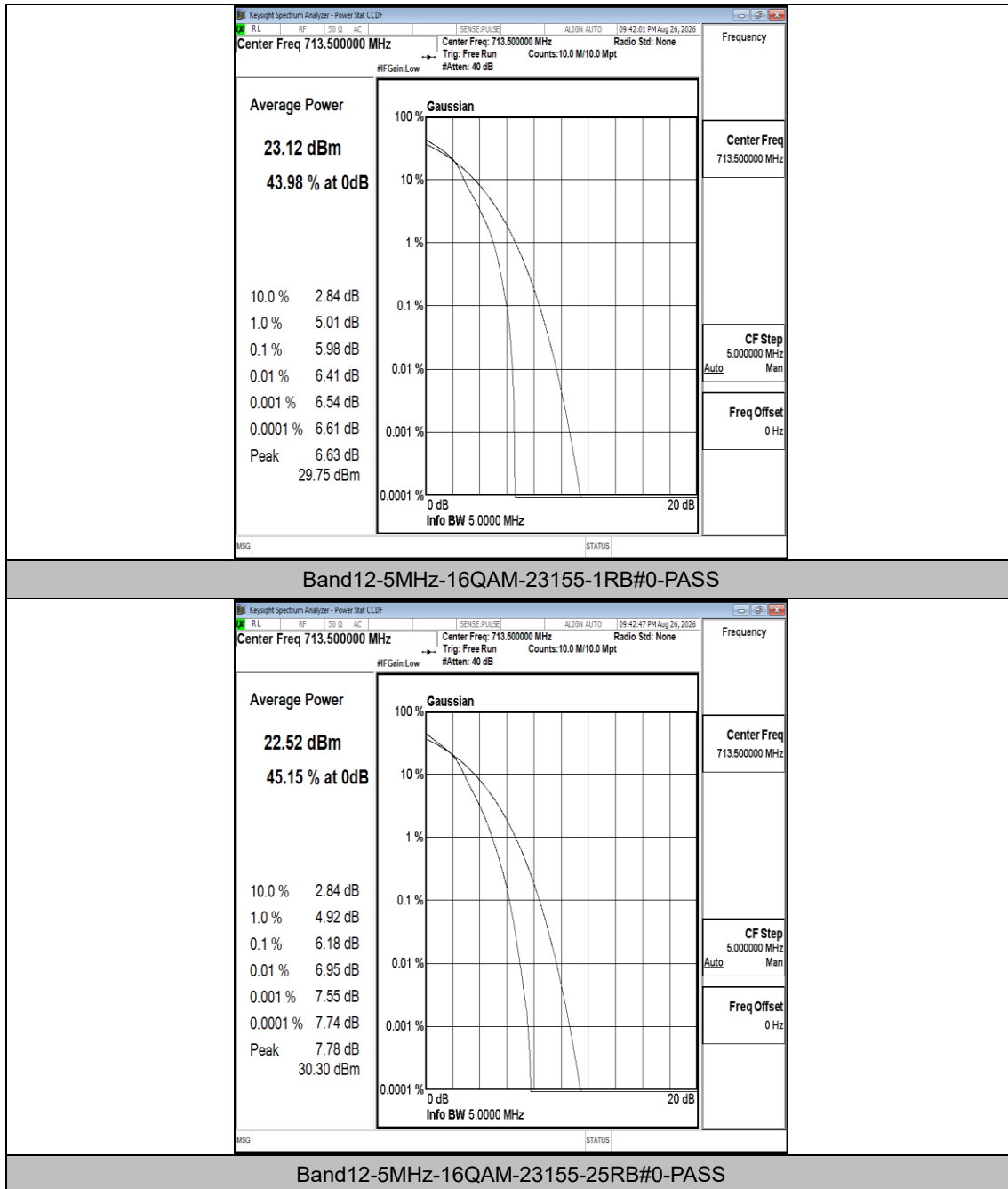


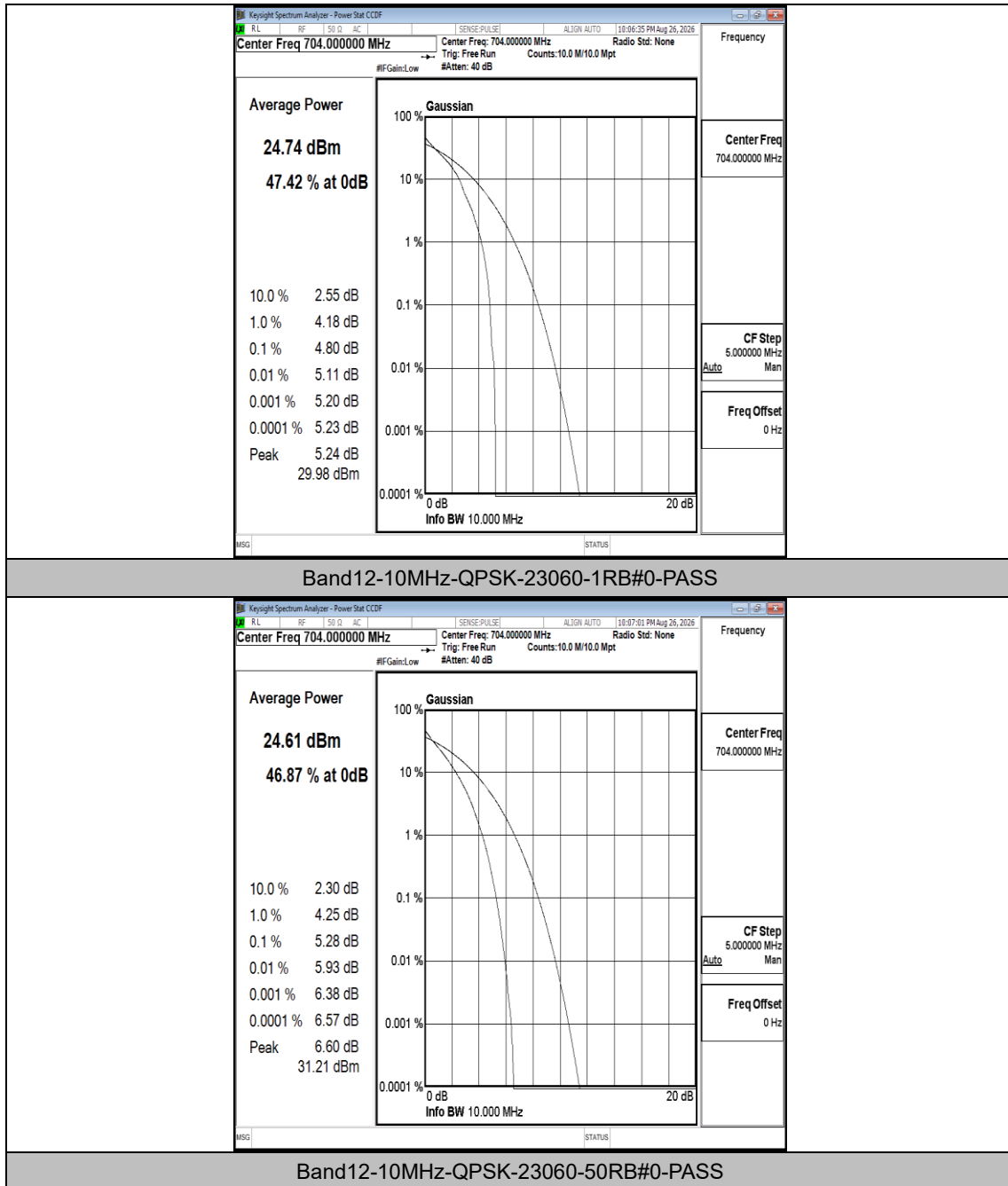


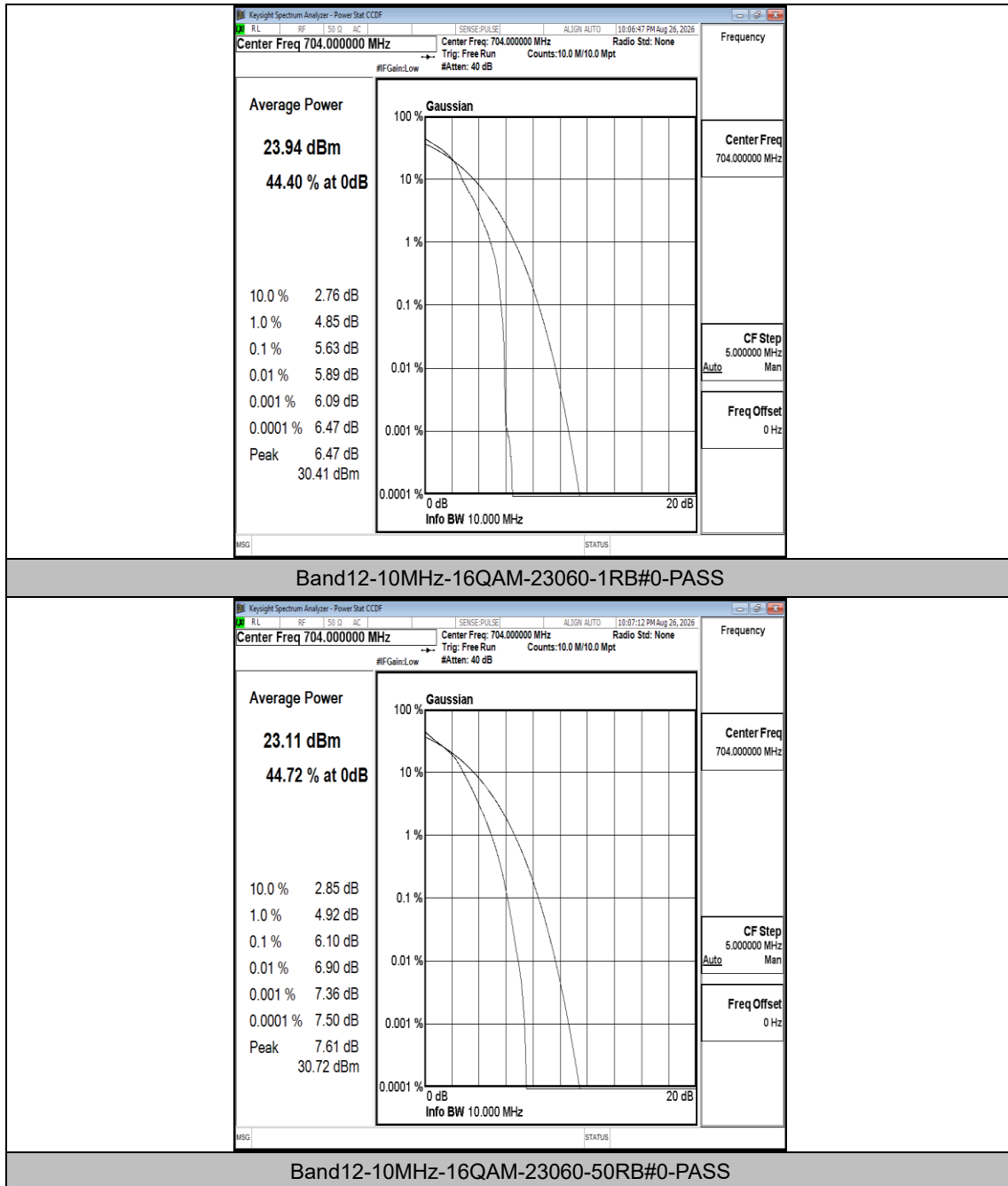


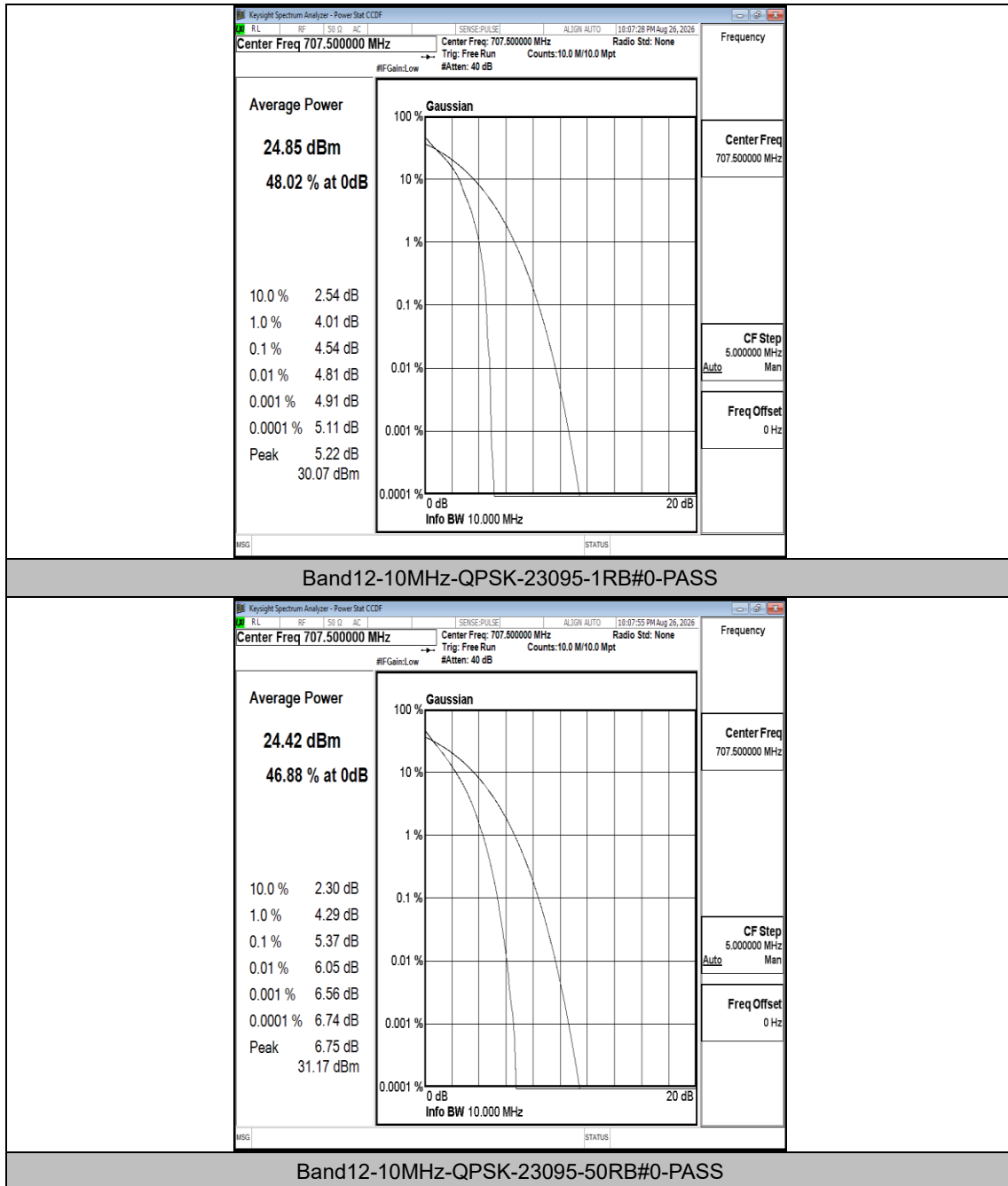


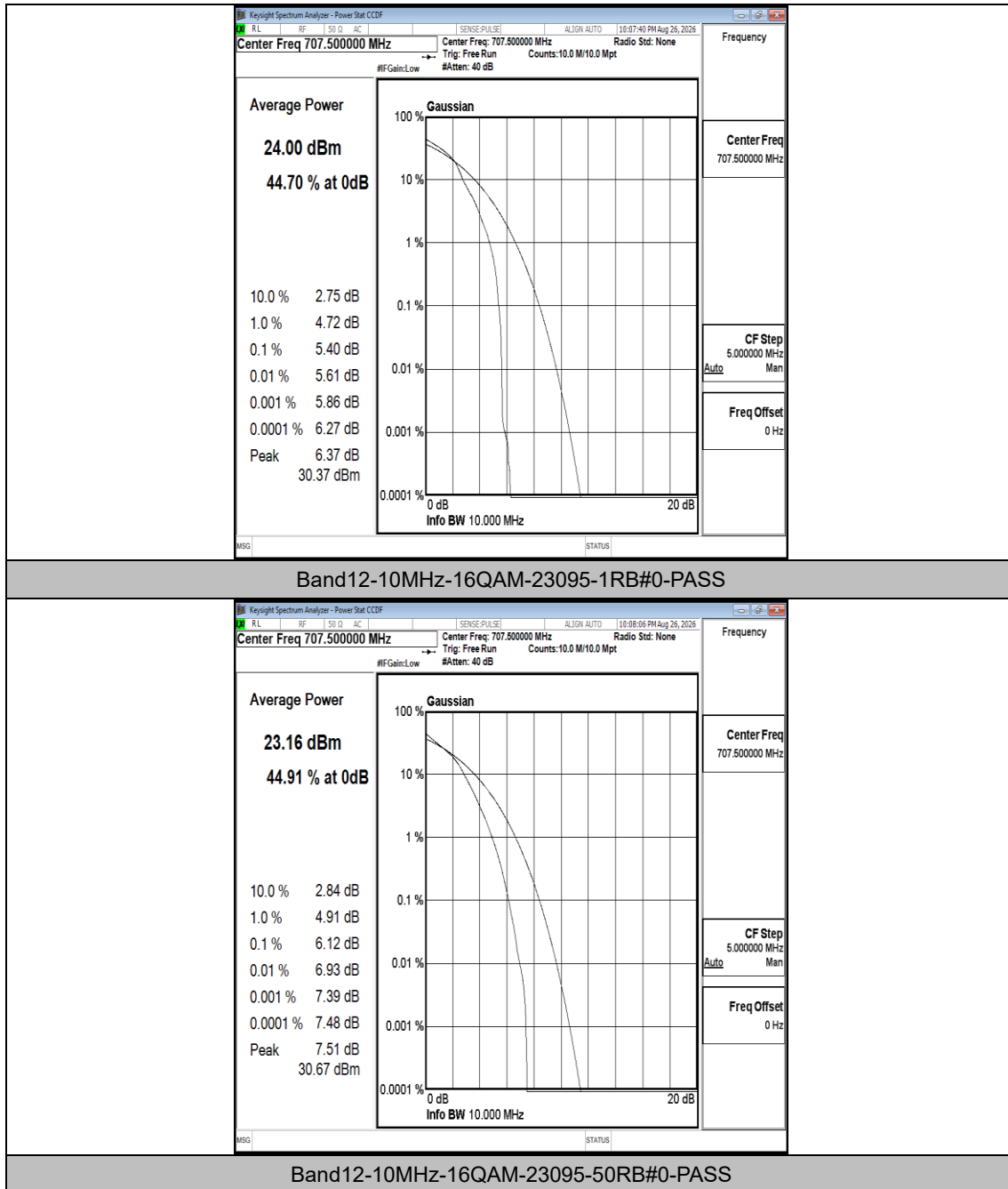


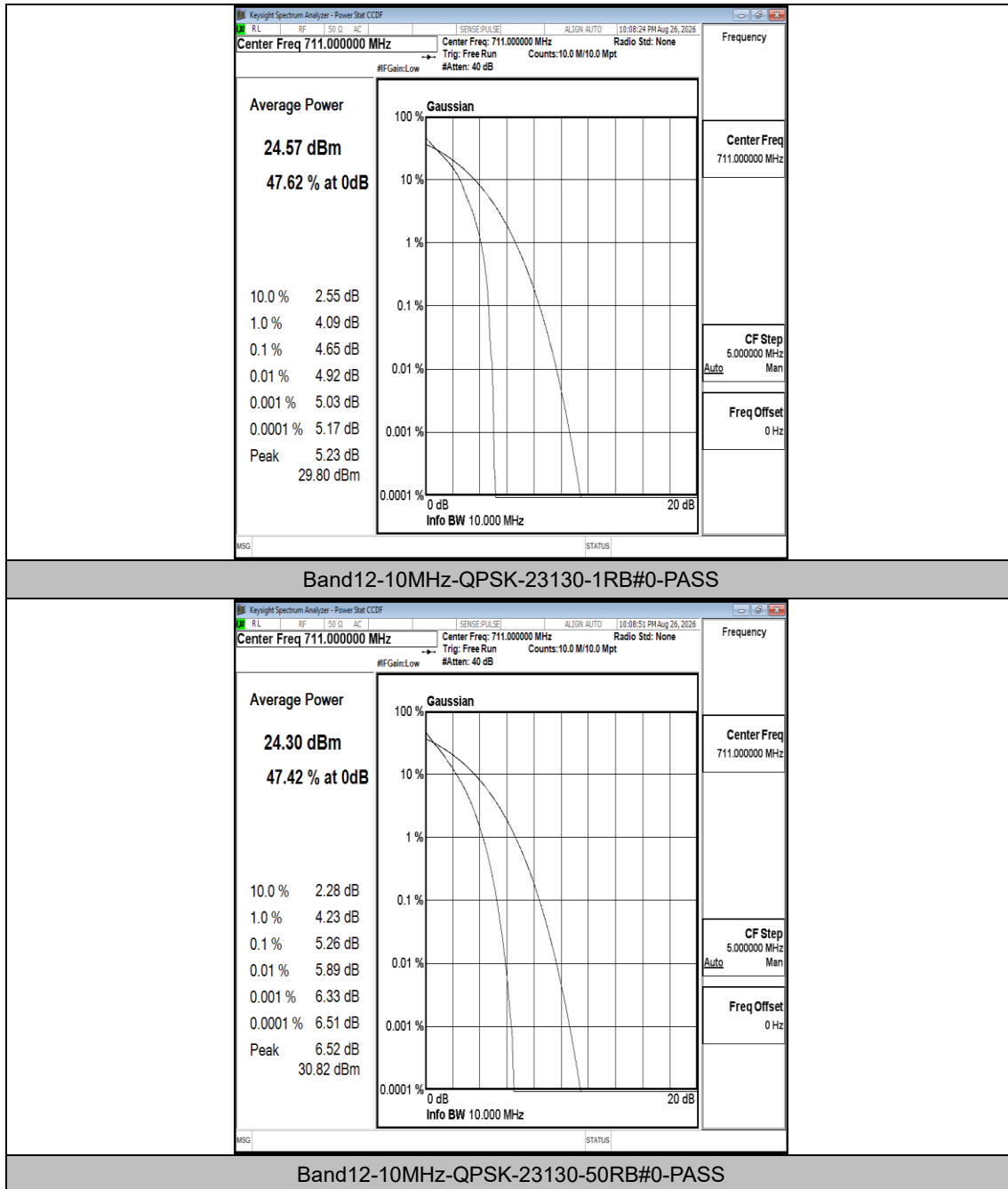


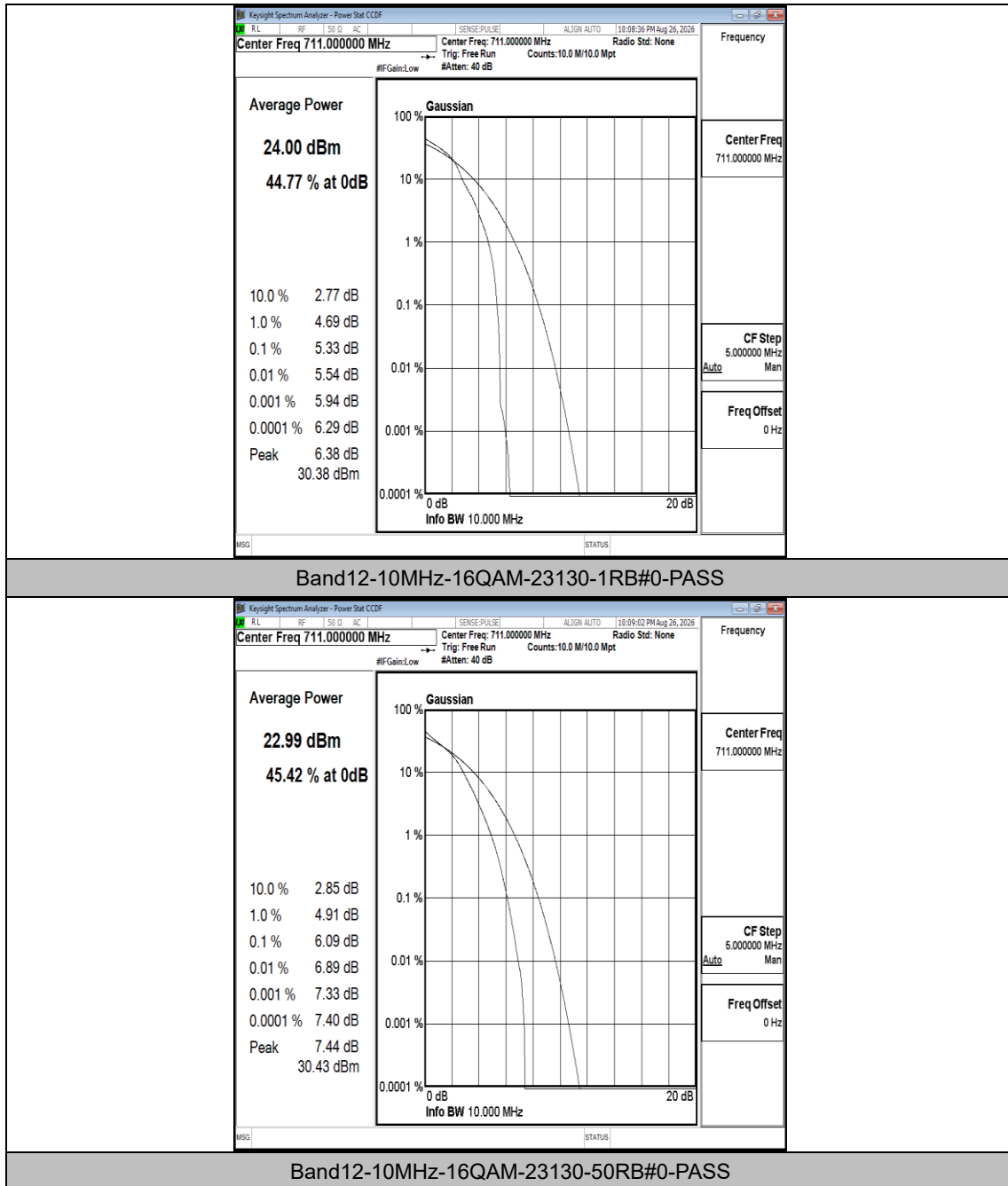












L.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0972	1.245	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1006	1.253	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0969	1.243	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.1032	1.252	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0981	1.244	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.1022	1.248	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7179	3.031	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.7107	3.023	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7098	3.022	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7009	3.007	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7147	3.049	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7079	3.037	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5200	4.979	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5004	4.963	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5130	4.964	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5095	4.962	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5259	4.971	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4991	4.977	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9886	9.928	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9785	9.911	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9959	9.863	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9711	9.922	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9789	9.881	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9630	9.880	PASS

Test Graphs

