

Appendix B: Test Data for CatM1 Band 2

Product Name: GPS 4G Tracker Scout BLE (CATM)

Test Model: GPS 4G Tracker Scout BLE (CATM)

Environmental Conditions

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

B.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Conducted Power(dBm)	Verdict
Band2	1.4MHz	QPSK	18900	1	0	Low	22.99	PASS
Band2	1.4MHz	16QAM	18900	1	0	Low	22.30	PASS
Band2	1.4MHz	QPSK	18900	1	5	Low	23.03	PASS
Band2	1.4MHz	QPSK	18607	1	0	Low	23.12	PASS
Band2	1.4MHz	16QAM	18607	1	0	Low	21.62	PASS
Band2	1.4MHz	QPSK	18607	1	5	Low	22.93	PASS
Band2	1.4MHz	16QAM	18607	1	5	Low	21.58	PASS
Band2	1.4MHz	QPSK	18607	6	0	Low	20.41	PASS
Band2	1.4MHz	16QAM	18607	6	0	Low	20.19	PASS
Band2	1.4MHz	16QAM	18900	1	5	Low	22.25	PASS
Band2	1.4MHz	QPSK	18900	6	0	Low	21.28	PASS
Band2	1.4MHz	16QAM	18900	6	0	Low	20.79	PASS
Band2	1.4MHz	QPSK	19193	1	0	High	22.32	PASS
Band2	1.4MHz	16QAM	19193	1	0	High	21.49	PASS
Band2	1.4MHz	QPSK	19193	1	5	High	22.19	PASS
Band2	1.4MHz	16QAM	19193	1	5	High	21.38	PASS
Band2	1.4MHz	QPSK	19193	6	0	High	20.45	PASS
Band2	1.4MHz	16QAM	19193	6	0	High	19.91	PASS
Band2	3MHz	QPSK	18615	1	0	Low	22.54	PASS
Band2	3MHz	16QAM	18615	1	0	Low	21.60	PASS
Band2	3MHz	16QAM	18615	1	5	Low	21.59	PASS
Band2	3MHz	QPSK	18615	6	0	Low	20.64	PASS
Band2	3MHz	16QAM	18615	6	0	Low	20.15	PASS
Band2	3MHz	QPSK	18615	1	5	Low	22.42	PASS
Band2	3MHz	QPSK	18900	1	0	Low	23.10	PASS
Band2	3MHz	16QAM	18900	1	0	Low	22.22	PASS
Band2	3MHz	QPSK	18900	1	5	Low	23.01	PASS
Band2	3MHz	16QAM	18900	1	5	Low	22.19	PASS
Band2	3MHz	QPSK	18900	6	0	Low	21.14	PASS
Band2	3MHz	16QAM	18900	6	0	Low	20.72	PASS
Band2	3MHz	QPSK	19185	1	0	High	22.34	PASS
Band2	3MHz	16QAM	19185	1	0	High	21.45	PASS
Band2	3MHz	QPSK	19185	1	5	High	22.22	PASS
Band2	3MHz	16QAM	19185	1	5	High	21.37	PASS
Band2	3MHz	QPSK	19185	6	0	High	20.26	PASS

Band2	3MHz	16QAM	19185	6	0	High	19.97	PASS
Band2	5MHz	QPSK	18625	1	0	Low	22.75	PASS
Band2	5MHz	16QAM	18625	1	0	Low	22.77	PASS
Band2	5MHz	QPSK	18625	1	5	Low	22.78	PASS
Band2	5MHz	16QAM	18625	1	5	Low	22.94	PASS
Band2	5MHz	QPSK	18625	6	0	Low	21.82	PASS
Band2	5MHz	16QAM	18625	6	0	Low	20.25	PASS
Band2	5MHz	QPSK	18900	1	0	Low	23.40	PASS
Band2	5MHz	16QAM	18900	1	0	Low	23.37	PASS
Band2	5MHz	QPSK	18900	1	5	Low	23.47	PASS
Band2	5MHz	16QAM	18900	1	5	Low	23.44	PASS
Band2	5MHz	QPSK	18900	6	0	Low	22.33	PASS
Band2	5MHz	16QAM	18900	6	0	Low	20.87	PASS
Band2	5MHz	QPSK	19175	1	0	High	22.62	PASS
Band2	5MHz	16QAM	19175	1	0	High	22.62	PASS
Band2	5MHz	QPSK	19175	1	5	High	22.62	PASS
Band2	5MHz	16QAM	19175	1	5	High	22.64	PASS
Band2	5MHz	QPSK	19175	6	0	High	21.68	PASS
Band2	5MHz	16QAM	19175	6	0	High	20.32	PASS
Band2	10MHz	QPSK	18650	1	0	Low	22.75	PASS
Band2	10MHz	16QAM	18650	1	0	Low	22.76	PASS
Band2	10MHz	QPSK	18650	1	5	Low	22.79	PASS
Band2	10MHz	16QAM	18650	1	5	Low	22.97	PASS
Band2	10MHz	QPSK	18650	6	0	Low	21.82	PASS
Band2	10MHz	16QAM	18650	6	0	Low	20.35	PASS
Band2	10MHz	QPSK	18900	1	0	Low	23.43	PASS
Band2	10MHz	16QAM	18900	1	0	Low	23.41	PASS
Band2	10MHz	QPSK	18900	1	5	Low	23.48	PASS
Band2	10MHz	16QAM	18900	1	5	Low	23.47	PASS
Band2	10MHz	QPSK	18900	6	0	Low	22.48	PASS
Band2	10MHz	16QAM	18900	6	0	Low	20.80	PASS
Band2	10MHz	QPSK	19150	1	0	High	22.81	PASS
Band2	10MHz	16QAM	19150	1	0	High	22.70	PASS
Band2	10MHz	QPSK	19150	1	5	High	22.68	PASS
Band2	10MHz	16QAM	19150	1	5	High	22.69	PASS
Band2	10MHz	QPSK	19150	6	0	High	21.66	PASS
Band2	10MHz	16QAM	19150	6	0	High	20.70	PASS
Band2	15MHz	QPSK	18675	1	0	Low	22.74	PASS
Band2	15MHz	16QAM	18675	1	0	Low	22.76	PASS
Band2	15MHz	QPSK	18675	1	5	Low	22.76	PASS
Band2	15MHz	16QAM	18675	1	5	Low	22.79	PASS

Band2	15MHz	QPSK	18675	6	0	Low	22.71	PASS
Band2	15MHz	16QAM	18675	6	0	Low	22.27	PASS
Band2	15MHz	QPSK	18900	1	0	Low	23.42	PASS
Band2	15MHz	16QAM	18900	1	0	Low	23.39	PASS
Band2	15MHz	QPSK	18900	1	5	Low	23.46	PASS
Band2	15MHz	16QAM	18900	1	5	Low	23.42	PASS
Band2	15MHz	QPSK	18900	6	0	Low	23.28	PASS
Band2	15MHz	16QAM	18900	6	0	Low	22.63	PASS
Band2	15MHz	QPSK	19125	1	0	High	22.75	PASS
Band2	15MHz	16QAM	19125	1	0	High	22.71	PASS
Band2	15MHz	QPSK	19125	1	5	High	22.76	PASS
Band2	15MHz	16QAM	19125	1	5	High	22.68	PASS
Band2	15MHz	QPSK	19125	6	0	High	22.69	PASS
Band2	15MHz	16QAM	19125	6	0	High	22.75	PASS
Band2	20MHz	QPSK	18700	1	0	Low	22.72	PASS
Band2	20MHz	16QAM	18700	1	0	Low	22.74	PASS
Band2	20MHz	QPSK	18700	1	5	Low	22.76	PASS
Band2	20MHz	16QAM	18700	1	5	Low	22.89	PASS
Band2	20MHz	QPSK	18700	6	0	Low	22.72	PASS
Band2	20MHz	16QAM	18700	6	0	Low	22.18	PASS
Band2	20MHz	QPSK	18900	1	0	Low	23.37	PASS
Band2	20MHz	16QAM	18900	1	0	Low	23.32	PASS
Band2	20MHz	QPSK	18900	1	5	Low	23.37	PASS
Band2	20MHz	16QAM	18900	1	5	Low	23.40	PASS
Band2	20MHz	QPSK	18900	6	0	Low	23.34	PASS
Band2	20MHz	16QAM	18900	6	0	Low	22.78	PASS
Band2	20MHz	QPSK	19100	1	0	High	22.92	PASS
Band2	20MHz	16QAM	19100	1	0	High	22.71	PASS
Band2	20MHz	QPSK	19100	1	5	High	22.80	PASS
Band2	20MHz	16QAM	19100	1	5	High	22.74	PASS
Band2	20MHz	QPSK	19100	6	0	High	22.60	PASS
Band2	20MHz	16QAM	19100	6	0	High	23.15	PASS

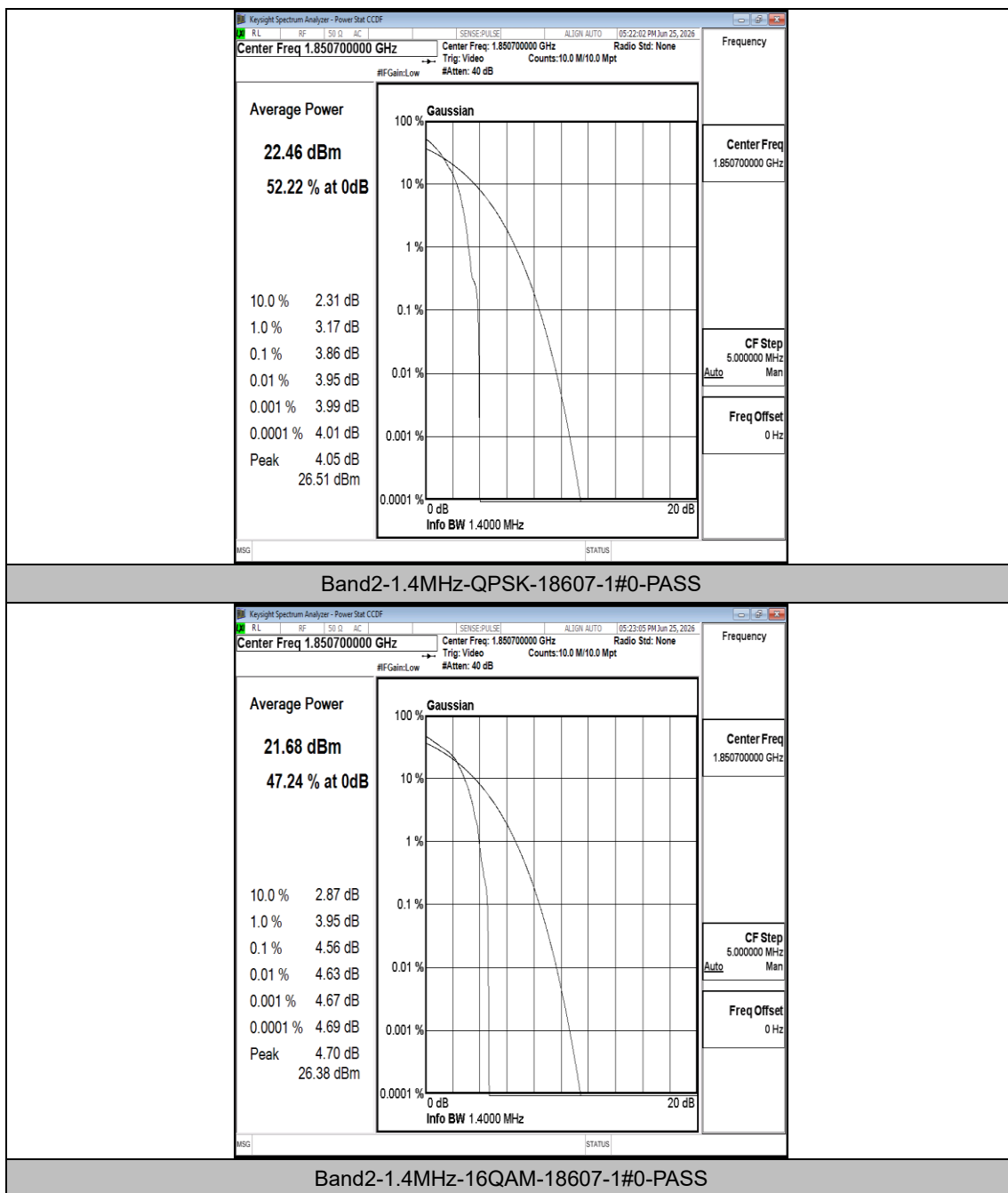
B.2 Peak-to-Average Ratio (CCDF) for M1

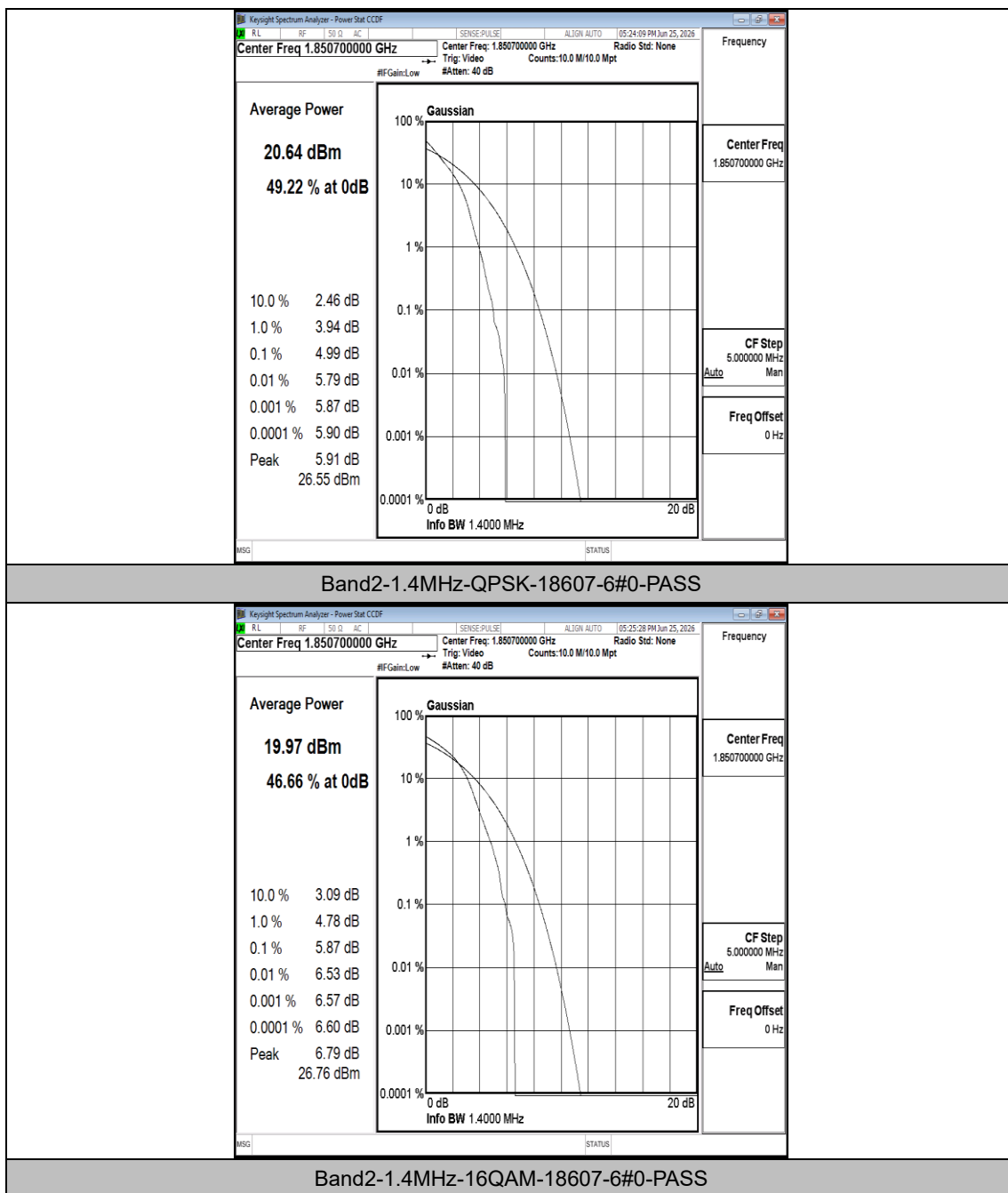
Test Result

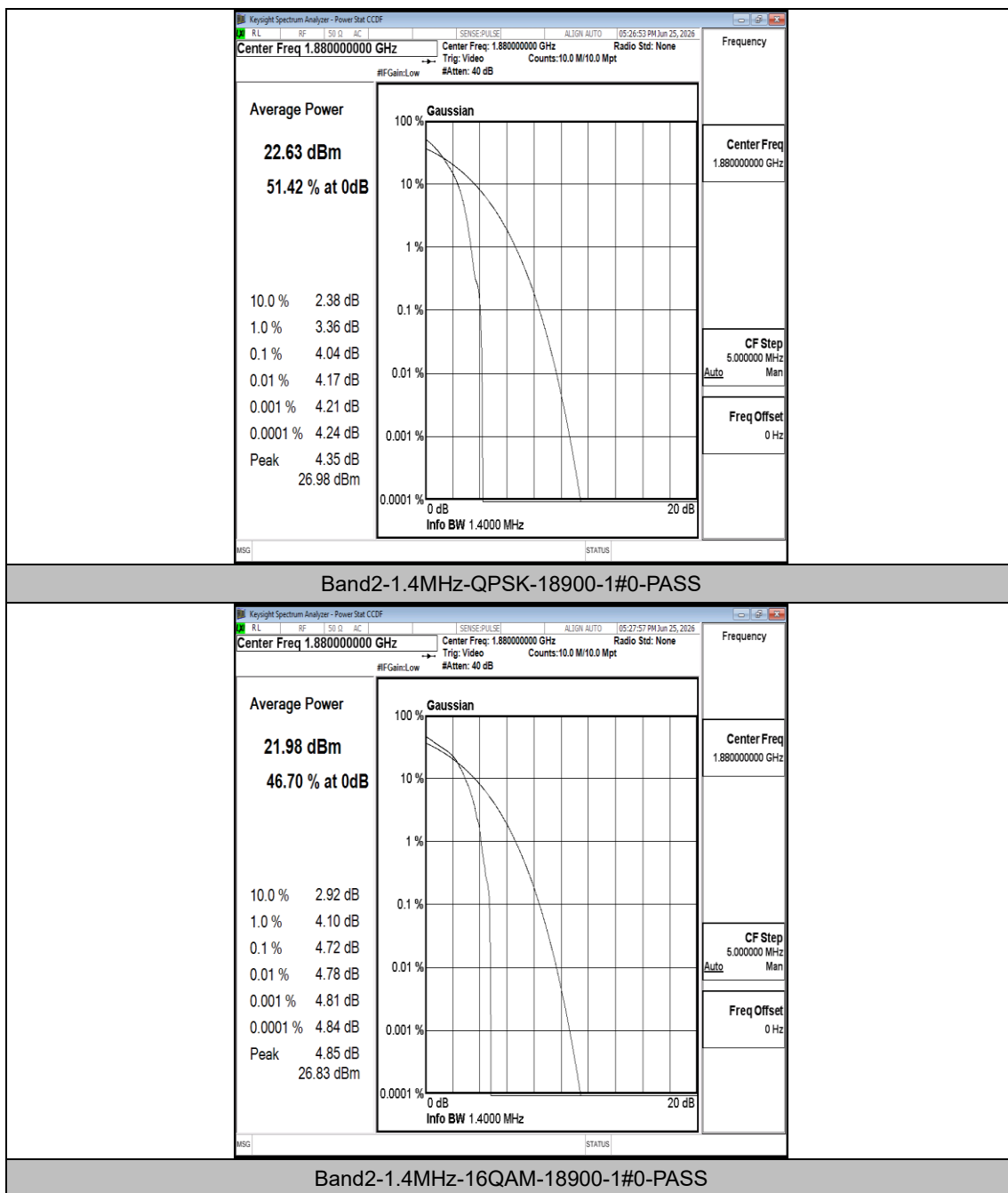
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	1	0	Low	3.86	<=13	PASS
Band2	1.4MHz	16QAM	18607	1	0	Low	4.56	<=13	PASS
Band2	1.4MHz	QPSK	18607	6	0	Low	4.99	<=13	PASS
Band2	1.4MHz	16QAM	18607	6	0	Low	5.87	<=13	PASS
Band2	1.4MHz	QPSK	18900	1	0	Low	4.04	<=13	PASS
Band2	1.4MHz	16QAM	18900	1	0	Low	4.72	<=13	PASS
Band2	1.4MHz	QPSK	18900	6	0	Low	5.05	<=13	PASS
Band2	1.4MHz	16QAM	18900	6	0	Low	5.95	<=13	PASS
Band2	1.4MHz	QPSK	19193	1	5	High	4.12	<=13	PASS
Band2	1.4MHz	16QAM	19193	1	5	High	4.90	<=13	PASS
Band2	1.4MHz	16QAM	19193	6	0	High	5.99	<=13	PASS
Band2	3MHz	QPSK	18615	1	0	Low	3.80	<=13	PASS
Band2	1.4MHz	QPSK	19193	6	0	High	5.18	<=13	PASS
Band2	3MHz	16QAM	18615	1	0	Low	4.57	<=13	PASS
Band2	3MHz	QPSK	18615	6	0	Low	4.90	<=13	PASS
Band2	3MHz	16QAM	18615	6	0	Low	5.74	<=13	PASS
Band2	3MHz	QPSK	18900	1	0	Low	4.02	<=13	PASS
Band2	3MHz	16QAM	18900	1	0	Low	4.69	<=13	PASS
Band2	3MHz	QPSK	18900	6	0	Low	5.21	<=13	PASS
Band2	3MHz	16QAM	18900	6	0	Low	5.83	<=13	PASS
Band2	3MHz	QPSK	19185	1	5	High	4.07	<=13	PASS
Band2	3MHz	16QAM	19185	1	5	High	4.90	<=13	PASS
Band2	3MHz	QPSK	19185	6	0	High	5.41	<=13	PASS
Band2	3MHz	16QAM	19185	6	0	High	5.92	<=13	PASS
Band2	5MHz	QPSK	18625	1	0	Low	3.58	<=13	PASS
Band2	5MHz	16QAM	18625	1	0	Low	3.79	<=13	PASS
Band2	5MHz	QPSK	18625	6	0	Low	4.44	<=13	PASS
Band2	5MHz	16QAM	18625	6	0	Low	6.32	<=13	PASS
Band2	5MHz	QPSK	18900	1	0	Low	3.72	<=13	PASS
Band2	5MHz	16QAM	18900	1	0	Low	3.89	<=13	PASS
Band2	5MHz	QPSK	18900	6	0	Low	4.57	<=13	PASS
Band2	5MHz	16QAM	18900	6	0	Low	6.20	<=13	PASS
Band2	5MHz	QPSK	19175	1	5	High	3.97	<=13	PASS
Band2	5MHz	16QAM	19175	1	5	High	3.97	<=13	PASS
Band2	5MHz	QPSK	19175	6	0	High	4.67	<=13	PASS

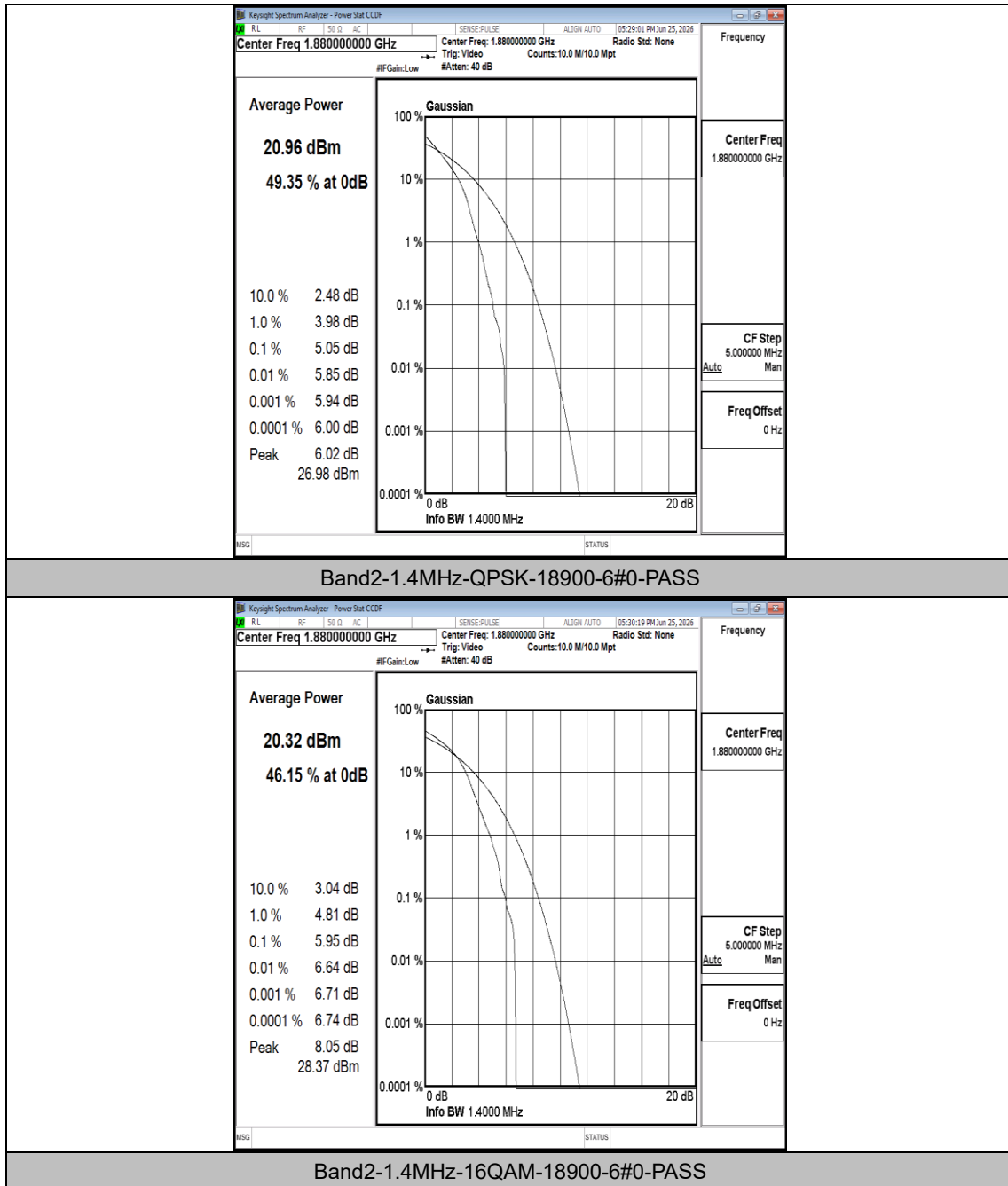
Band2	5MHz	16QAM	19175	6	0	High	6.41	<=13	PASS
Band2	10MHz	QPSK	18650	1	0	Low	3.55	<=13	PASS
Band2	10MHz	16QAM	18650	1	0	Low	3.74	<=13	PASS
Band2	10MHz	QPSK	18650	6	0	Low	4.16	<=13	PASS
Band2	10MHz	16QAM	18650	6	0	Low	5.74	<=13	PASS
Band2	10MHz	QPSK	18900	1	0	Low	3.66	<=13	PASS
Band2	10MHz	16QAM	18900	1	0	Low	3.84	<=13	PASS
Band2	10MHz	QPSK	18900	6	0	Low	4.33	<=13	PASS
Band2	10MHz	16QAM	18900	6	0	Low	6.14	<=13	PASS
Band2	10MHz	QPSK	19150	1	5	High	3.85	<=13	PASS
Band2	10MHz	16QAM	19150	1	5	High	3.88	<=13	PASS
Band2	10MHz	QPSK	19150	6	0	High	4.38	<=13	PASS
Band2	10MHz	16QAM	19150	6	0	High	6.56	<=13	PASS
Band2	15MHz	QPSK	18675	1	0	Low	3.36	<=13	PASS
Band2	15MHz	16QAM	18675	1	0	Low	3.72	<=13	PASS
Band2	15MHz	QPSK	18675	6	0	Low	3.58	<=13	PASS
Band2	15MHz	16QAM	18675	6	0	Low	4.39	<=13	PASS
Band2	15MHz	QPSK	18900	1	0	Low	3.67	<=13	PASS
Band2	15MHz	16QAM	18900	1	0	Low	3.87	<=13	PASS
Band2	15MHz	QPSK	18900	6	0	Low	3.72	<=13	PASS
Band2	15MHz	16QAM	18900	6	0	Low	4.60	<=13	PASS
Band2	15MHz	QPSK	19125	1	5	High	3.90	<=13	PASS
Band2	15MHz	16QAM	19125	1	5	High	3.86	<=13	PASS
Band2	15MHz	QPSK	19125	6	0	High	3.85	<=13	PASS
Band2	15MHz	16QAM	19125	6	0	High	4.64	<=13	PASS
Band2	20MHz	QPSK	18700	1	0	Low	3.52	<=13	PASS
Band2	20MHz	16QAM	18700	1	0	Low	3.70	<=13	PASS
Band2	20MHz	QPSK	18700	6	0	Low	3.85	<=13	PASS
Band2	20MHz	16QAM	18700	6	0	Low	4.70	<=13	PASS
Band2	20MHz	QPSK	18900	1	0	Low	3.72	<=13	PASS
Band2	20MHz	16QAM	18900	1	0	Low	3.86	<=13	PASS
Band2	20MHz	QPSK	18900	6	0	Low	3.83	<=13	PASS
Band2	20MHz	16QAM	18900	6	0	Low	5.07	<=13	PASS
Band2	20MHz	QPSK	19100	1	5	High	4.38	<=13	PASS
Band2	20MHz	16QAM	19100	1	5	High	3.89	<=13	PASS
Band2	20MHz	QPSK	19100	6	0	High	4.10	<=13	PASS
Band2	20MHz	16QAM	19100	6	0	High	4.97	<=13	PASS

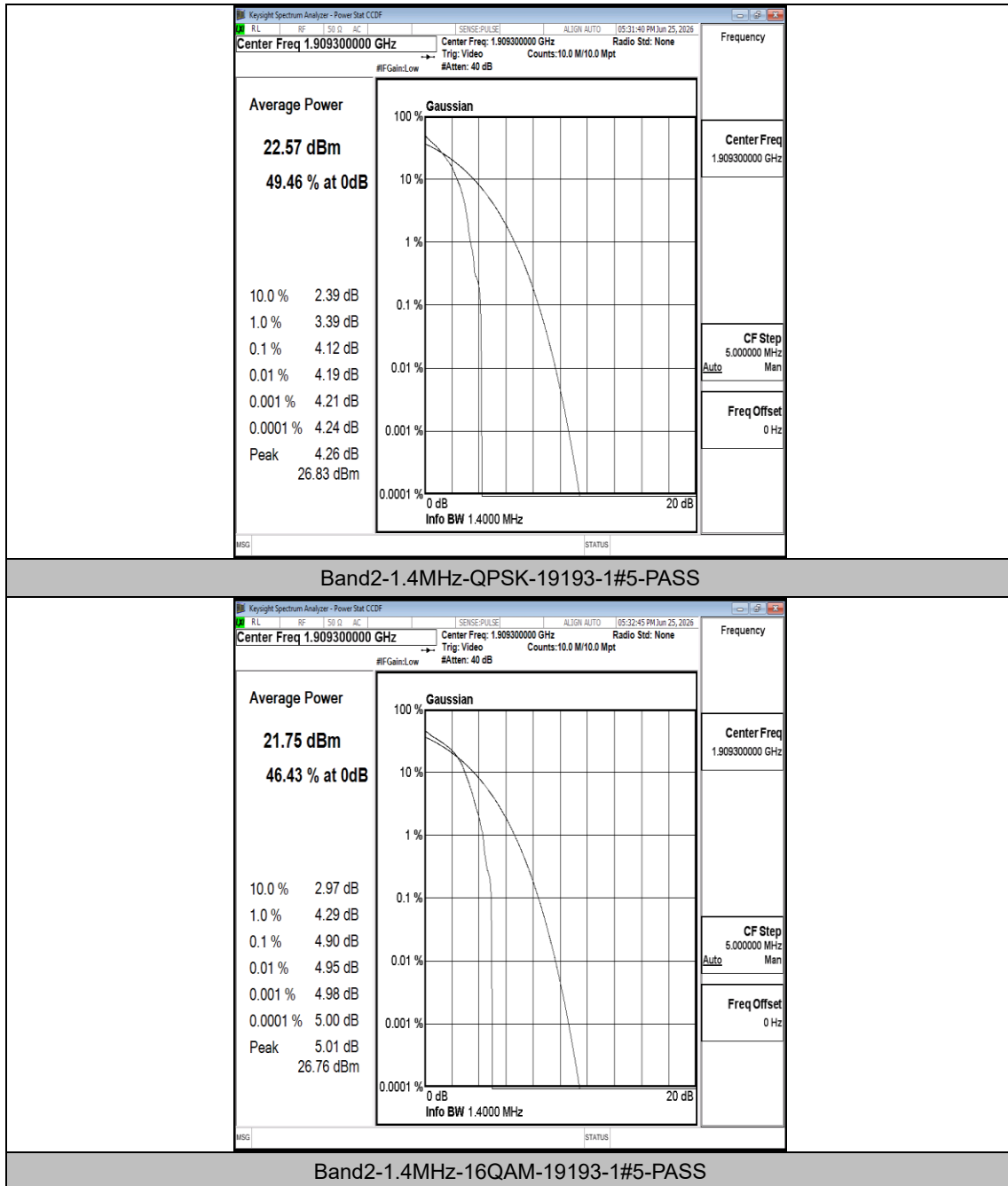
Test Graphs

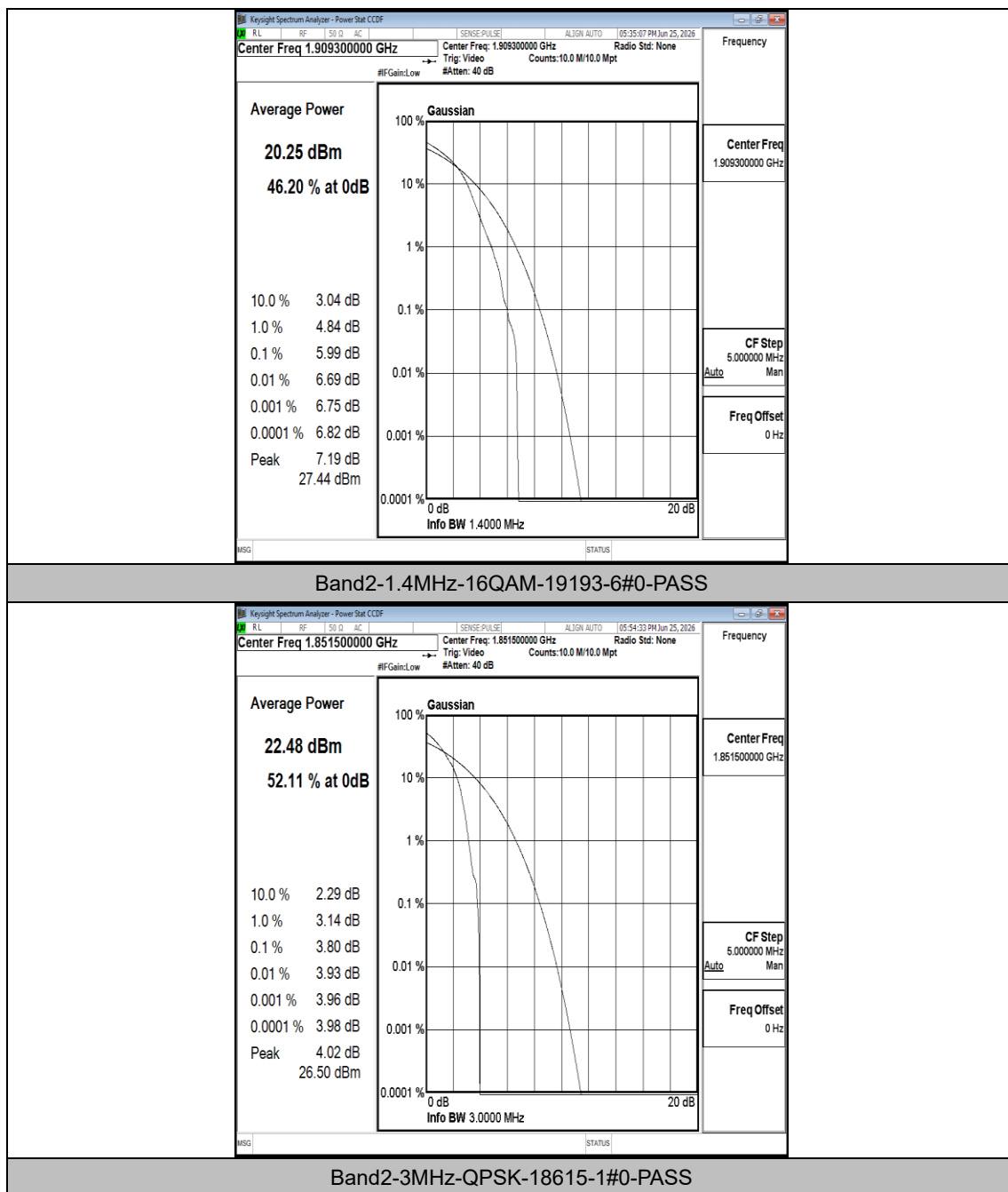


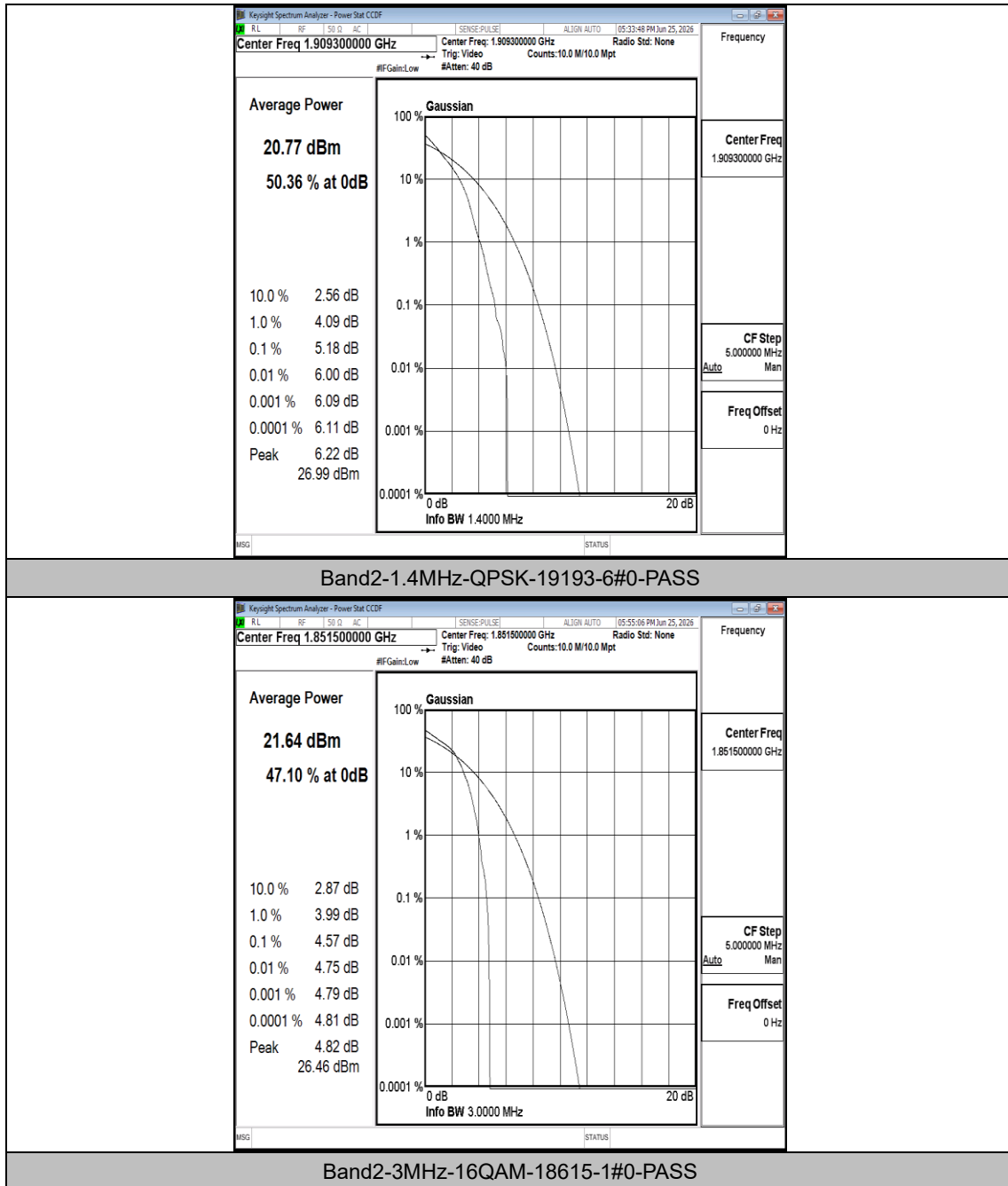


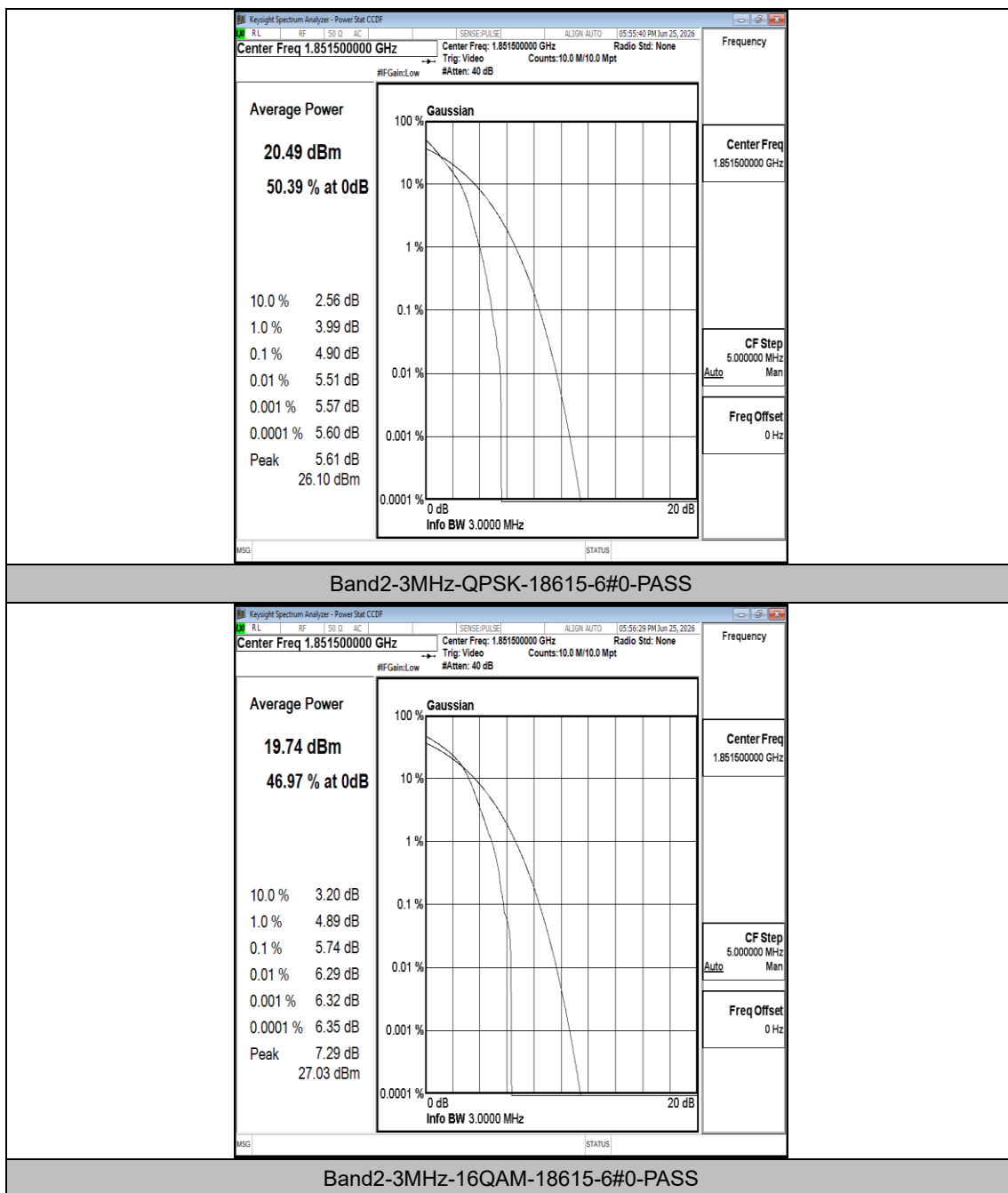


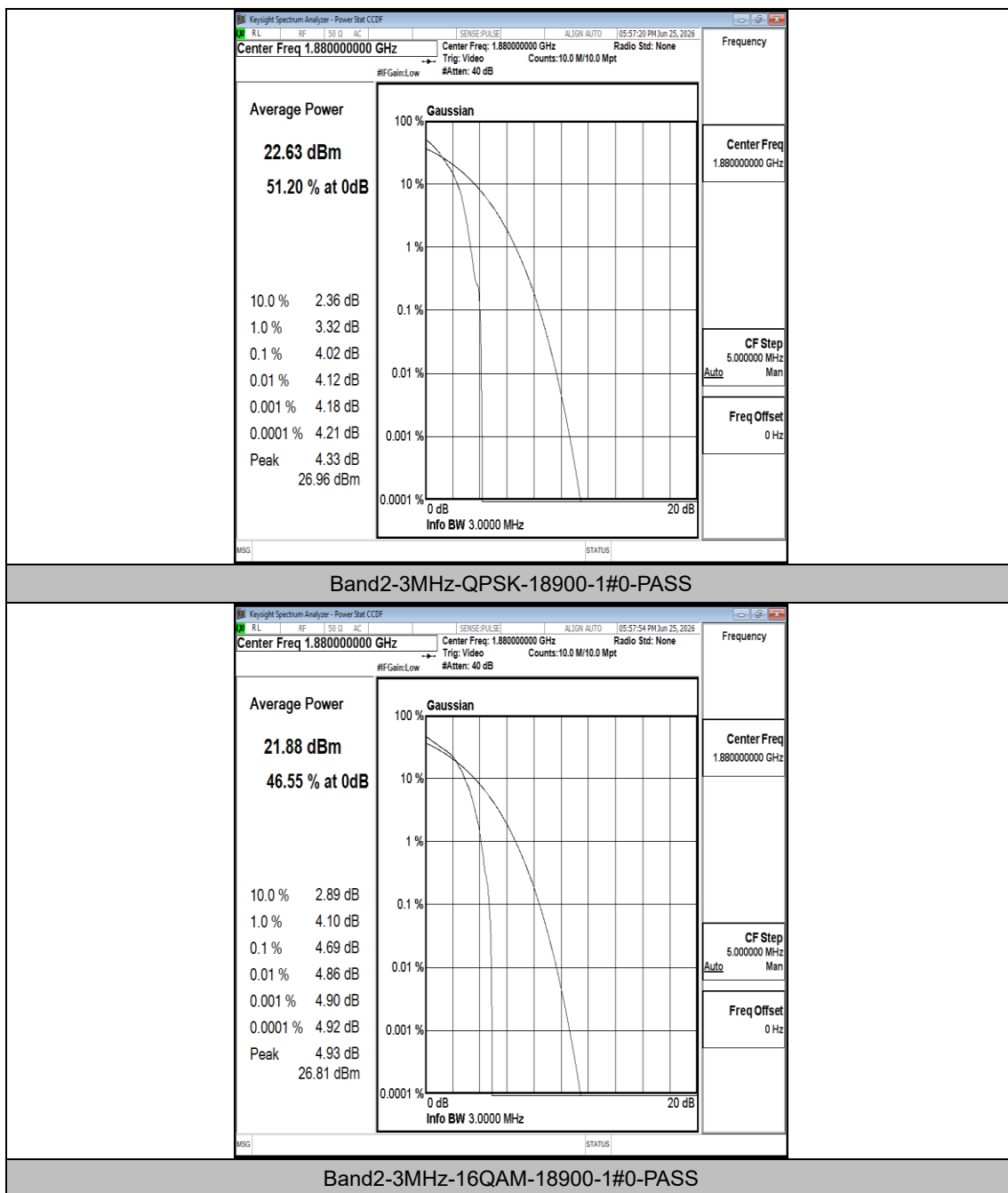


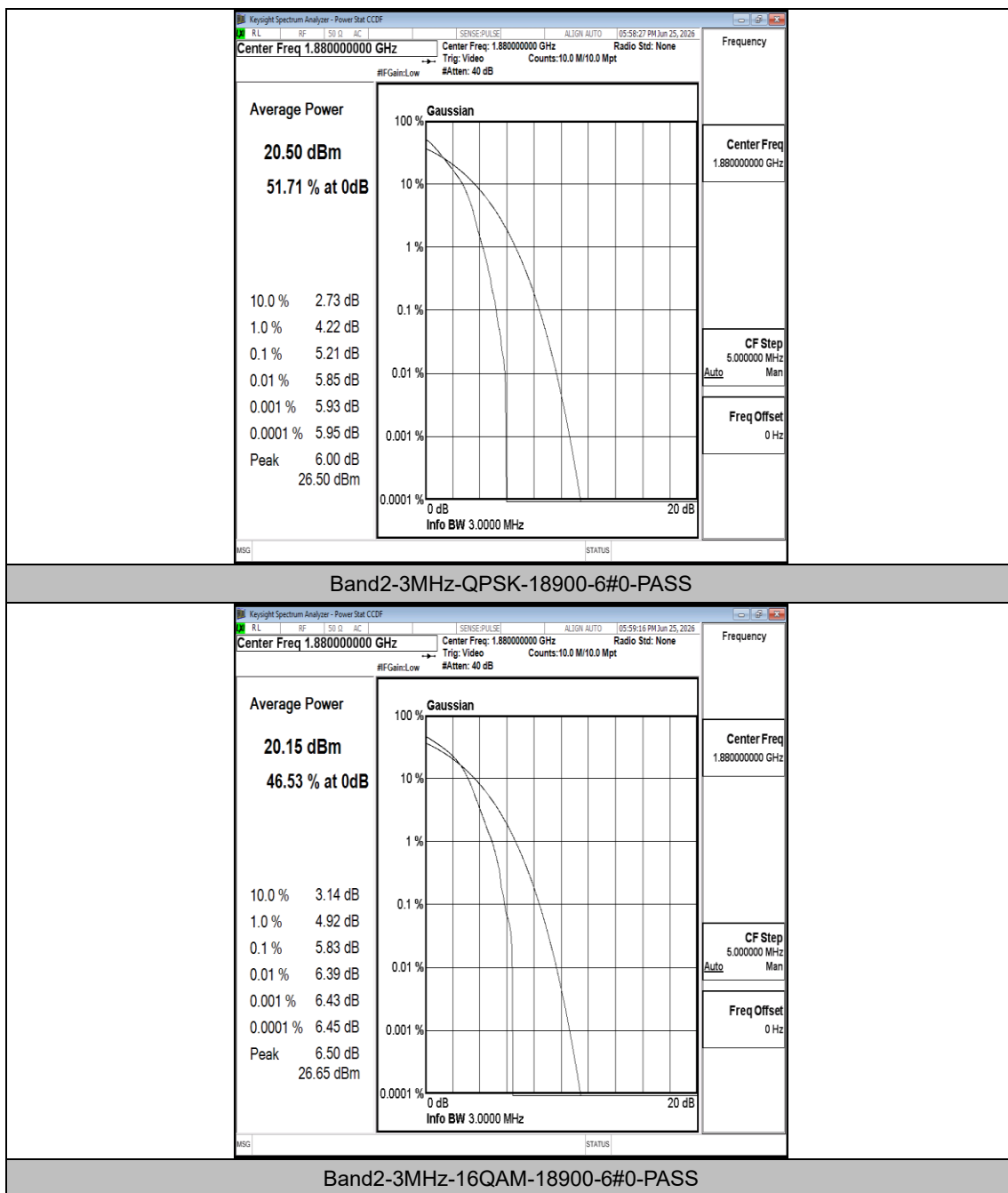


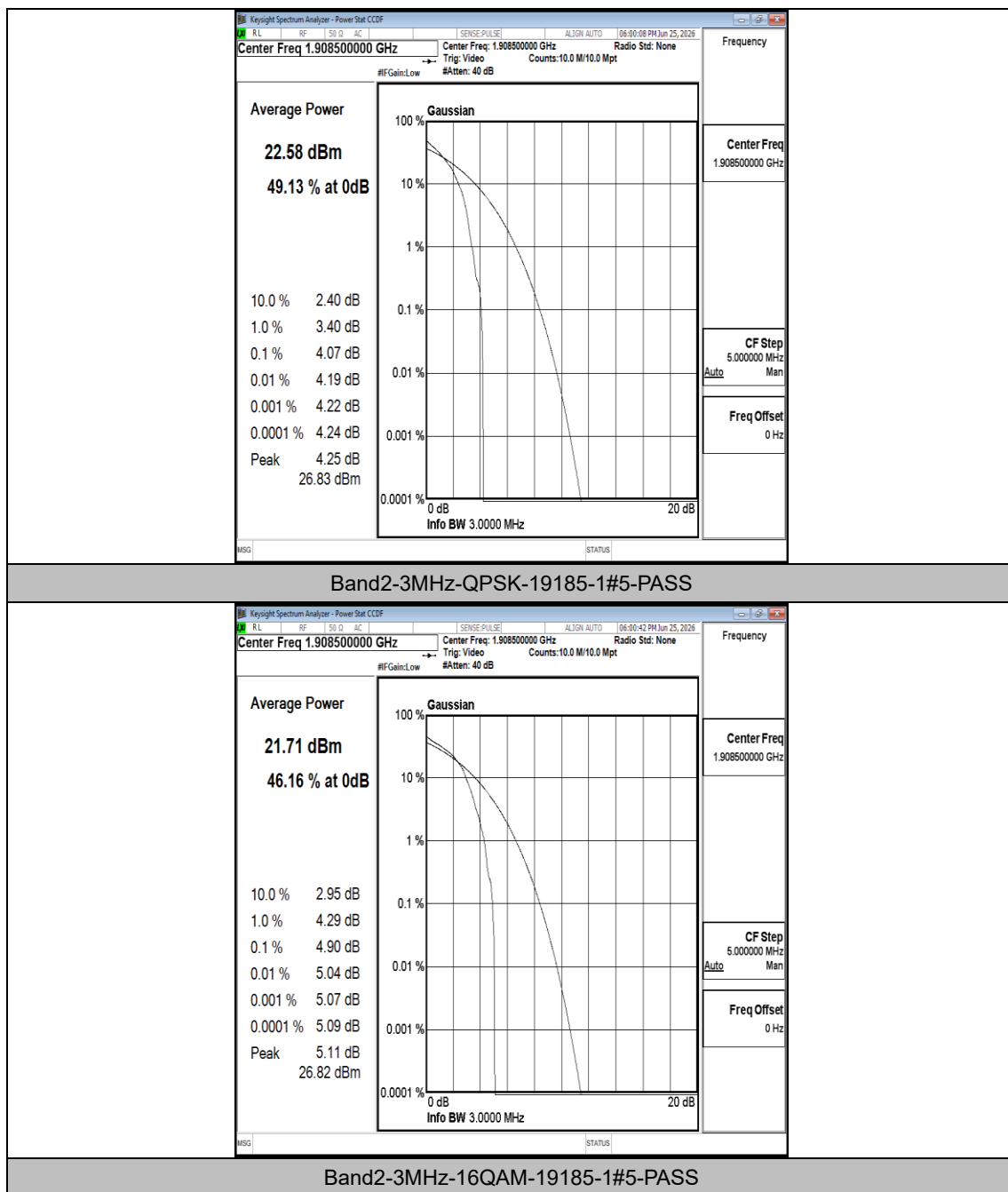


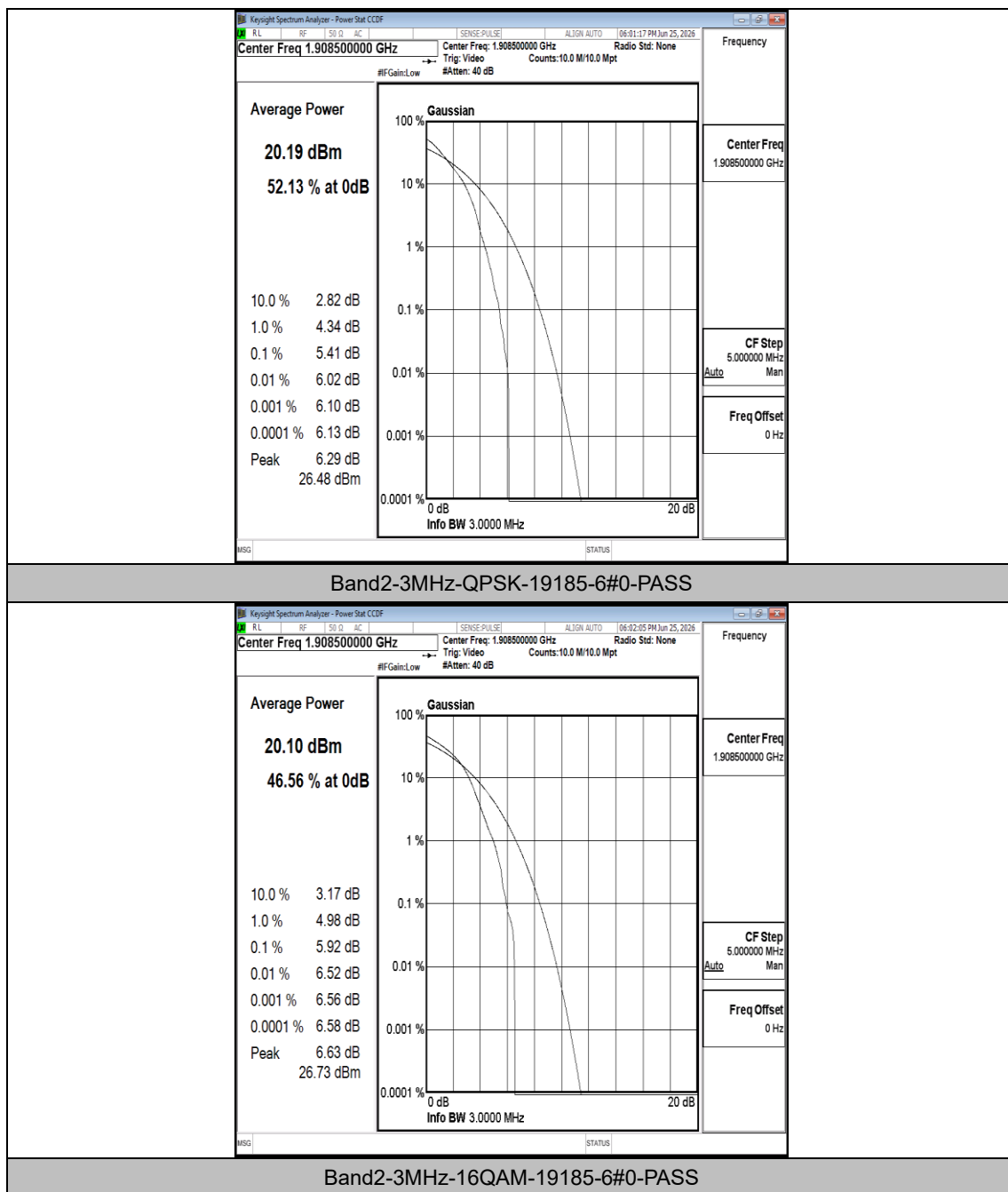


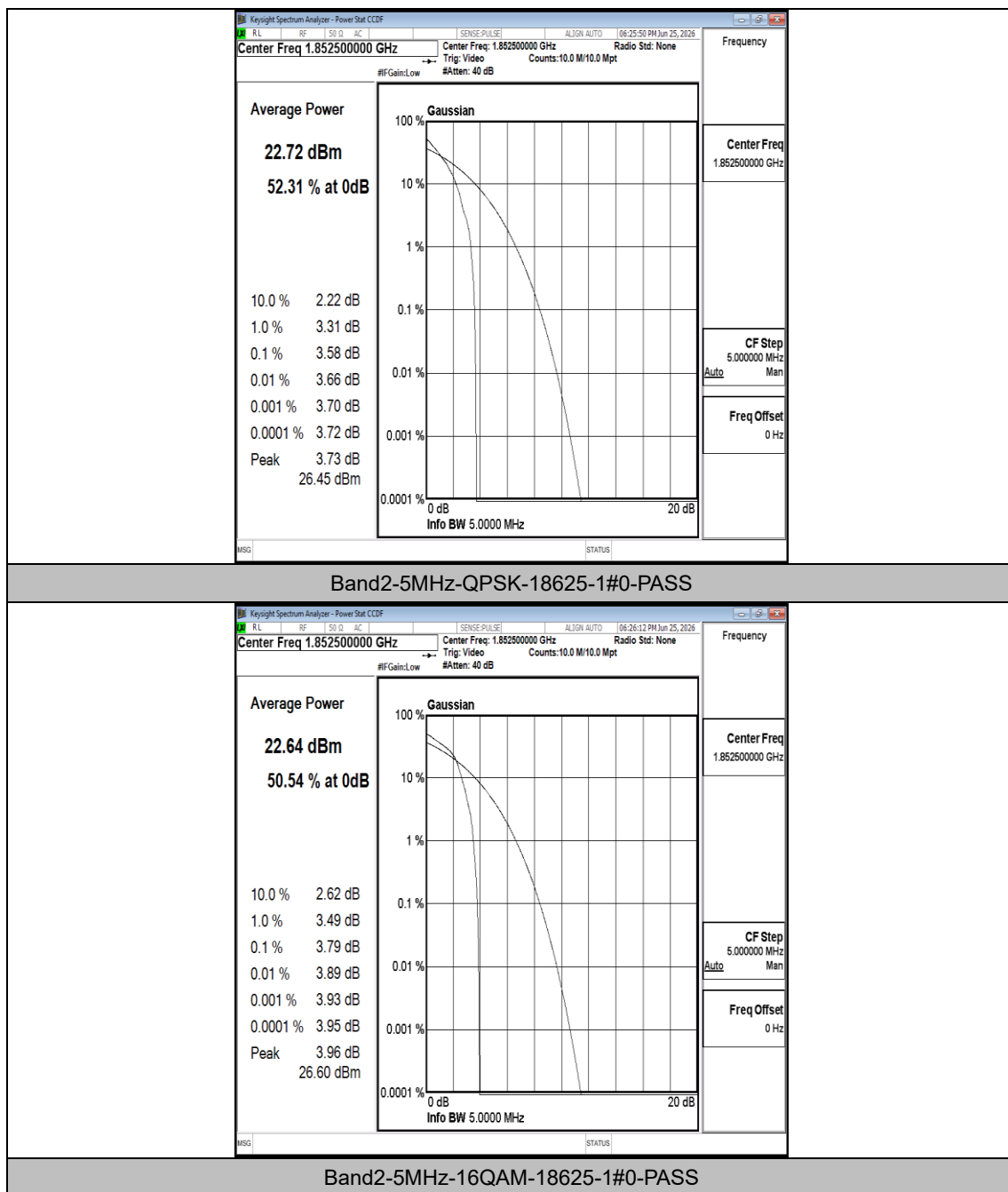


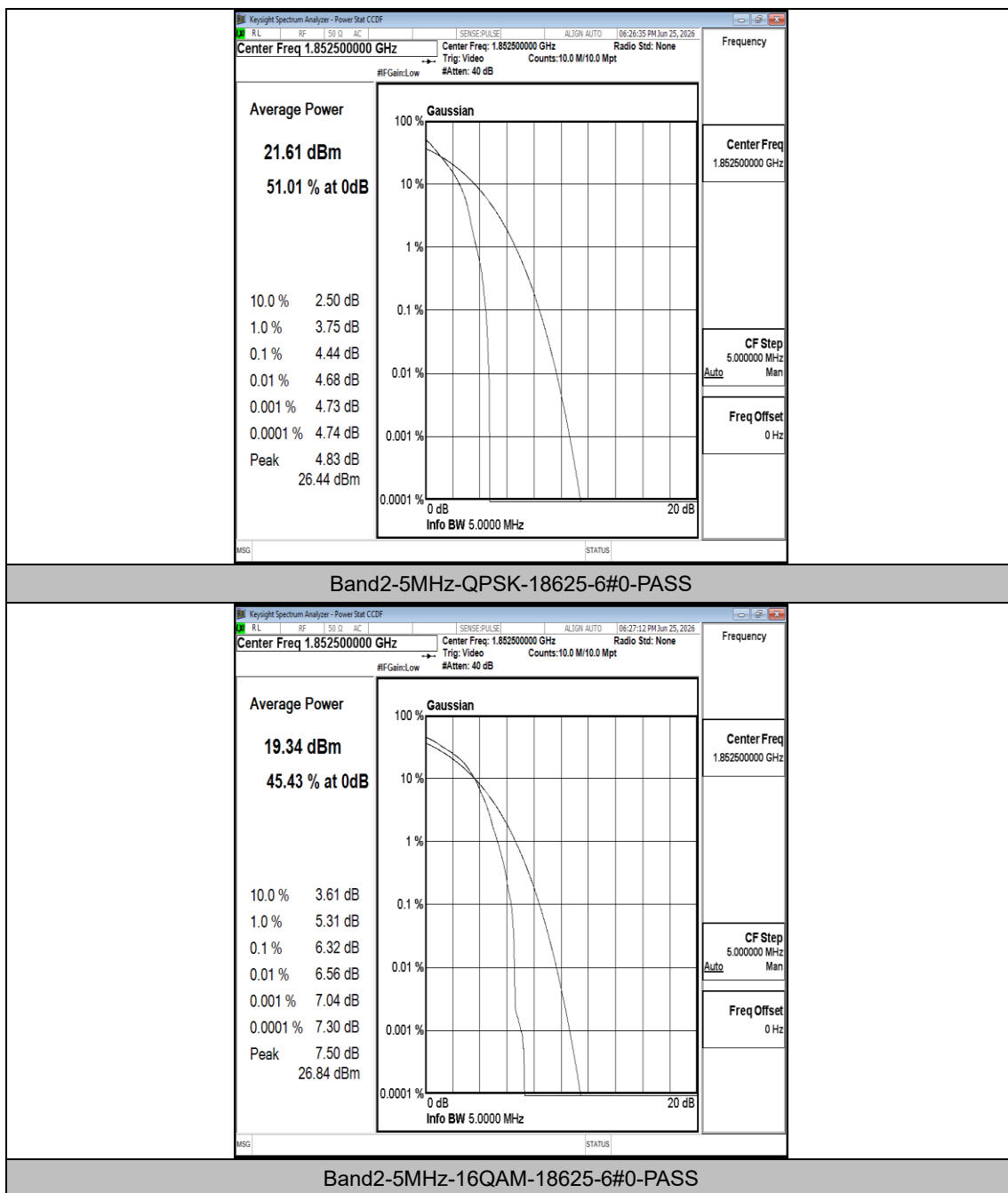


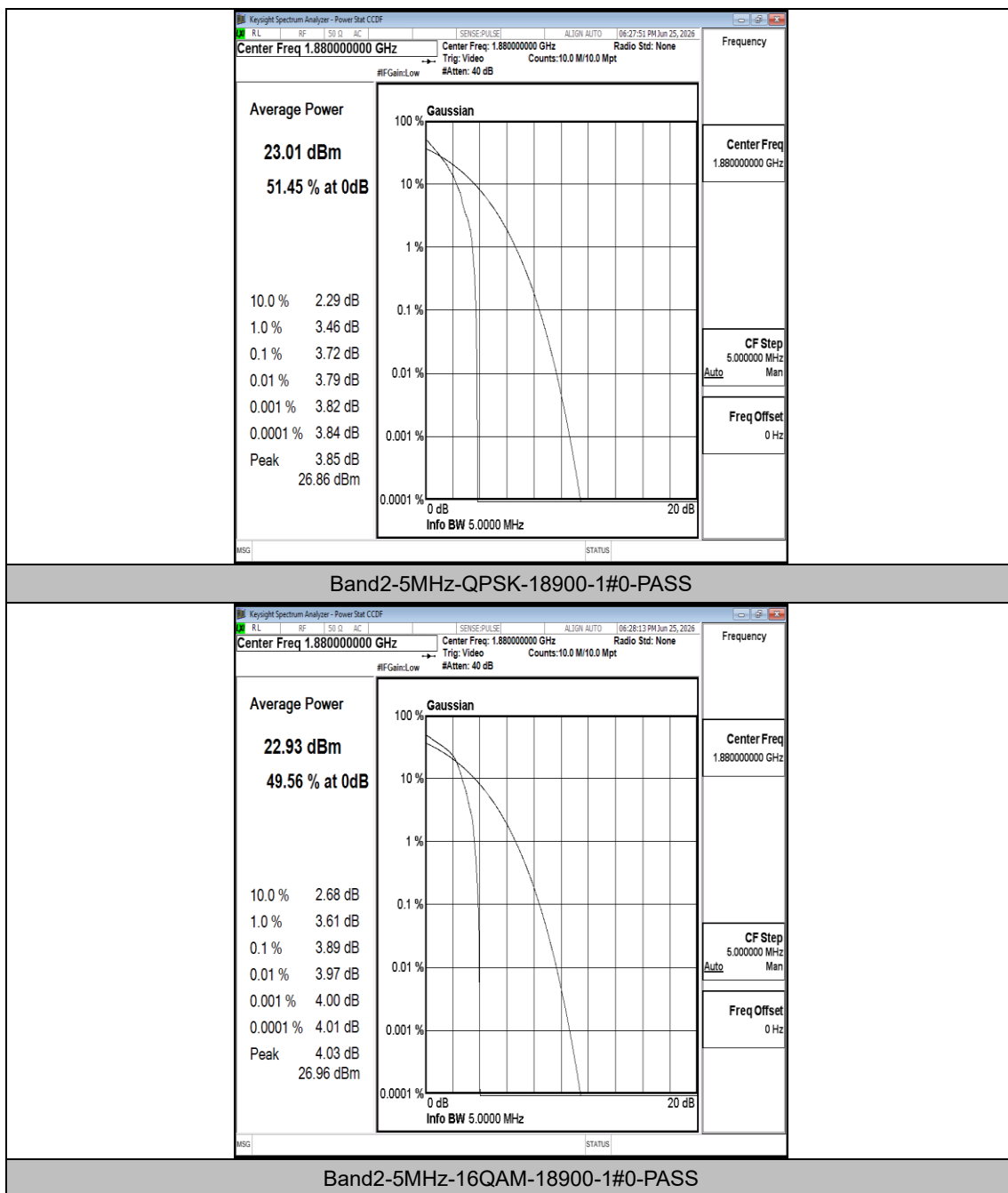


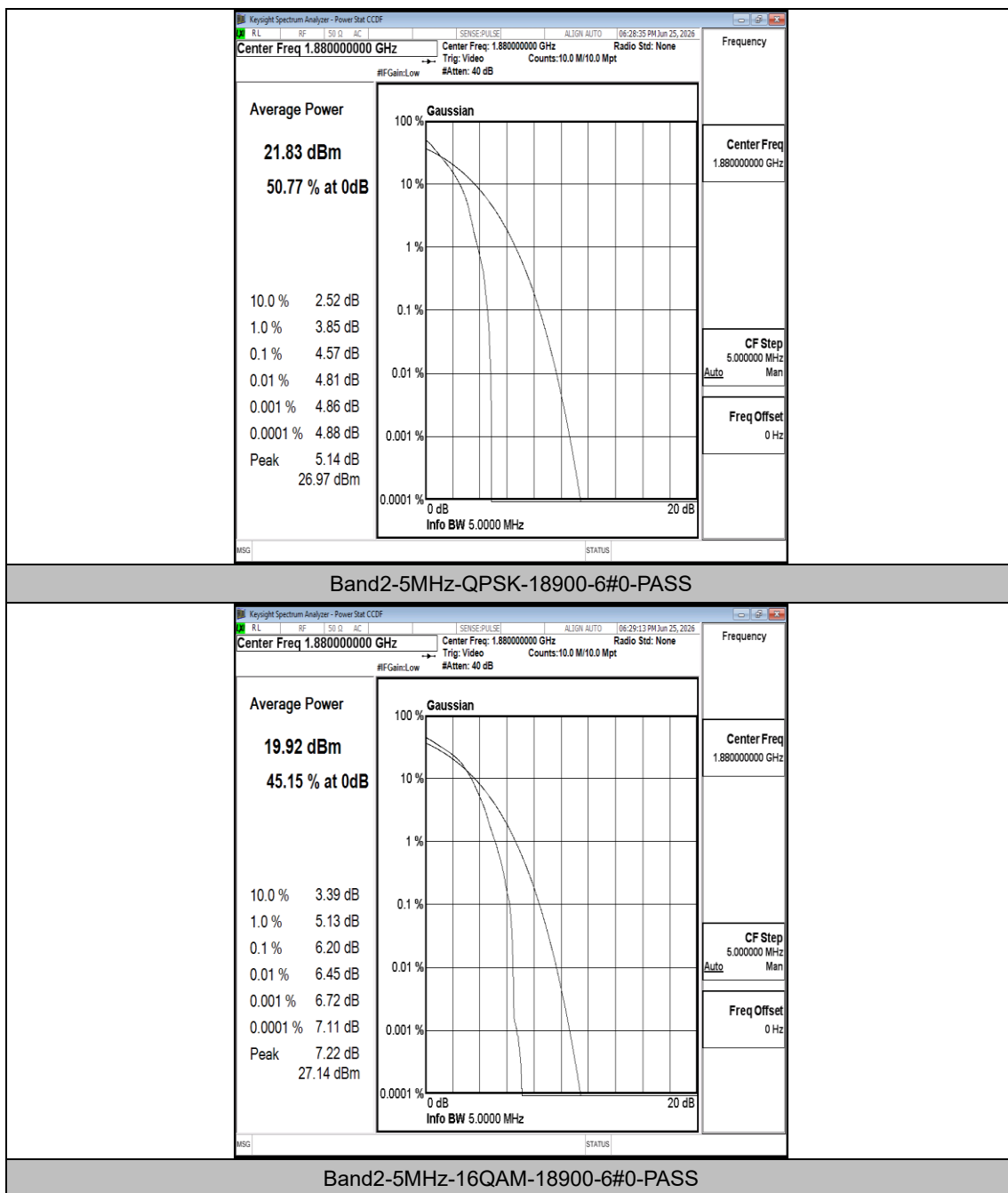


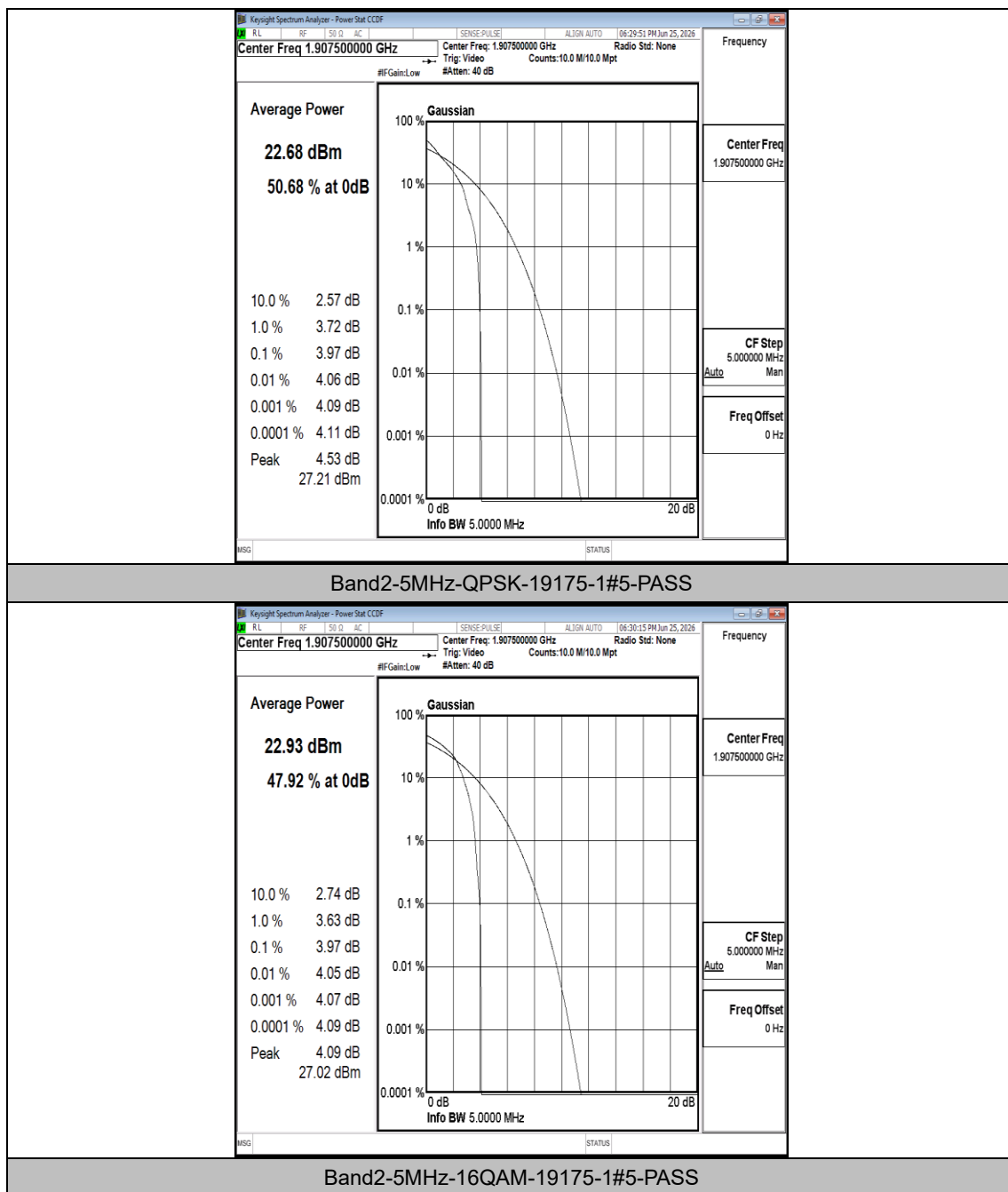


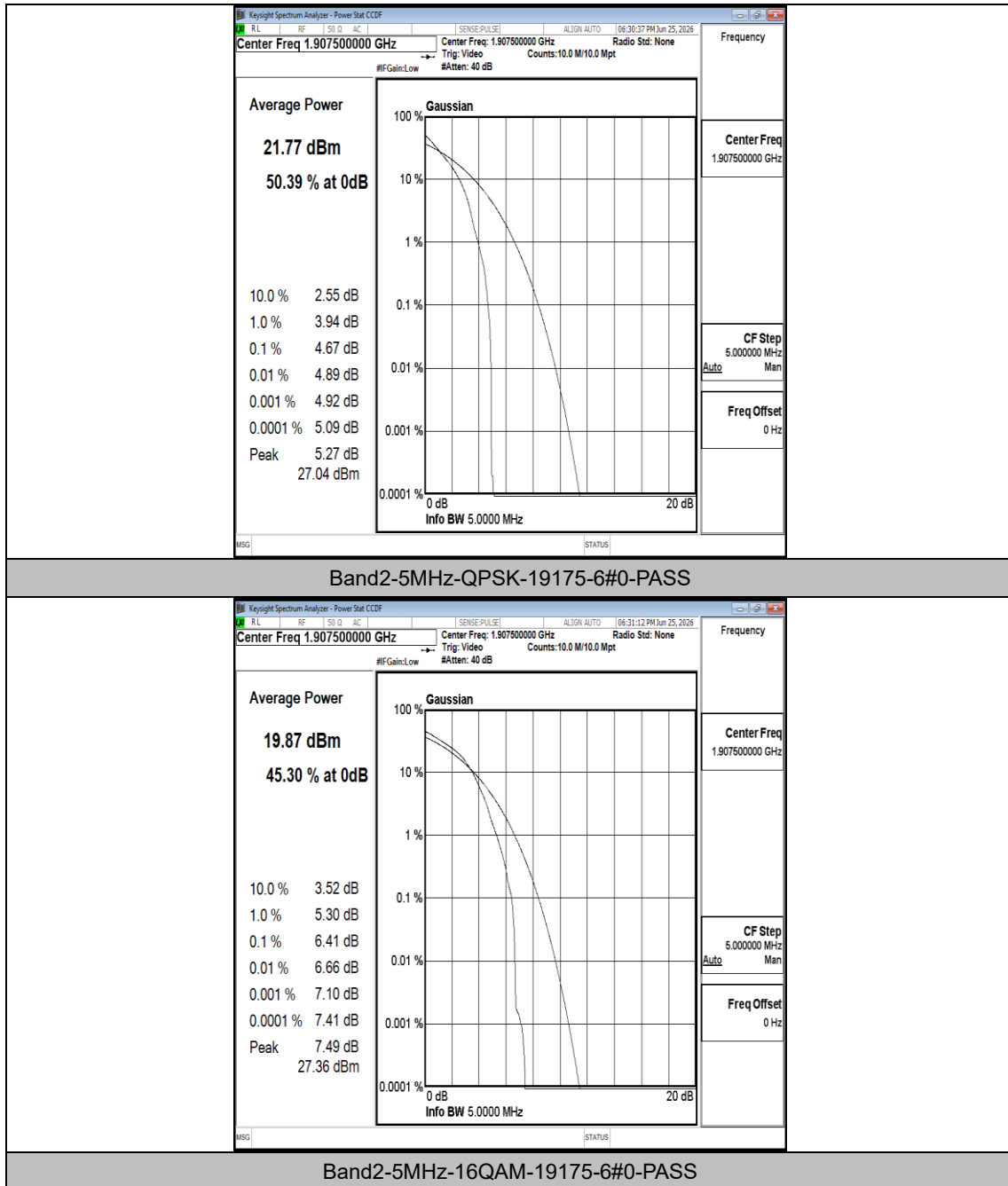


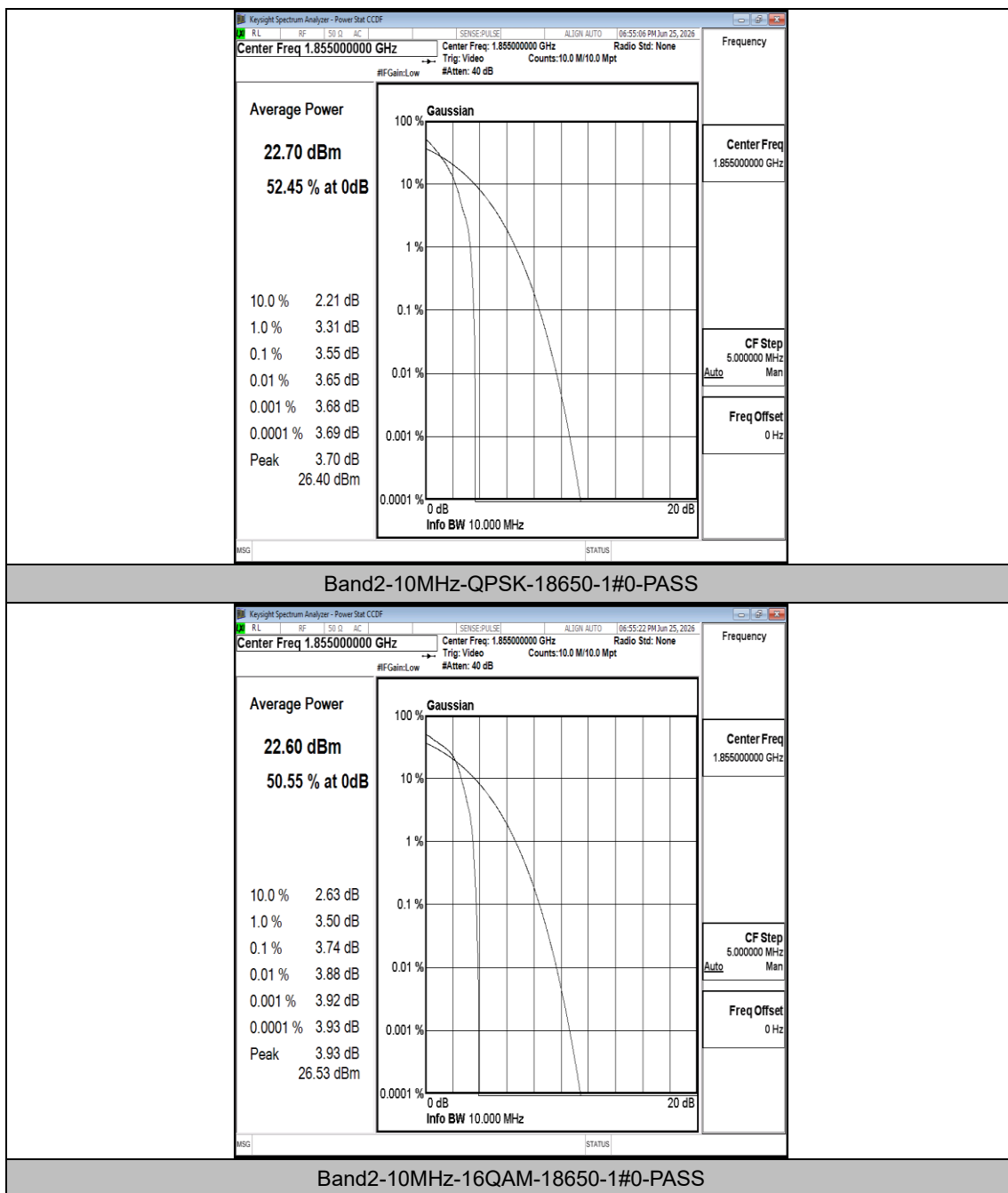


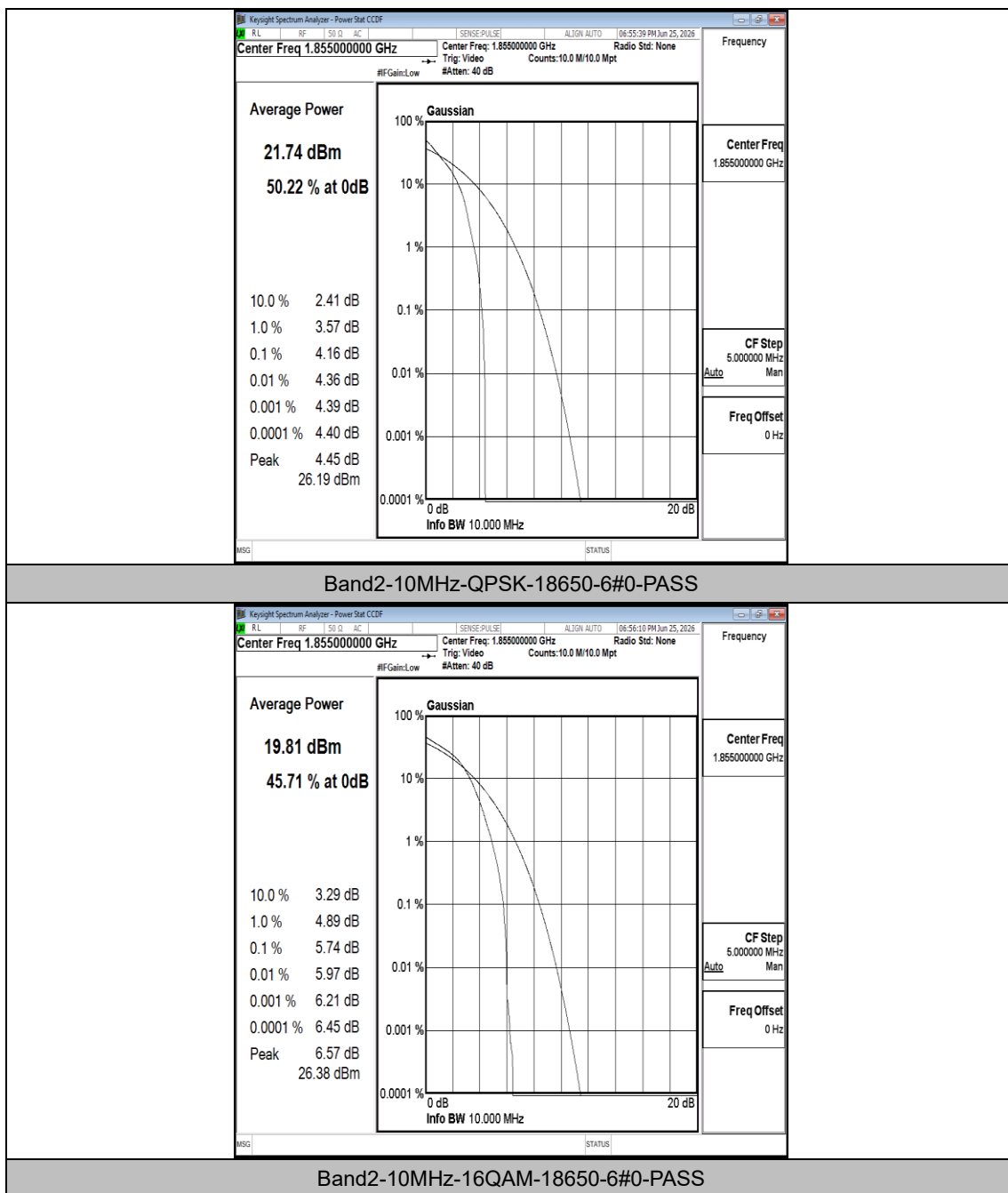


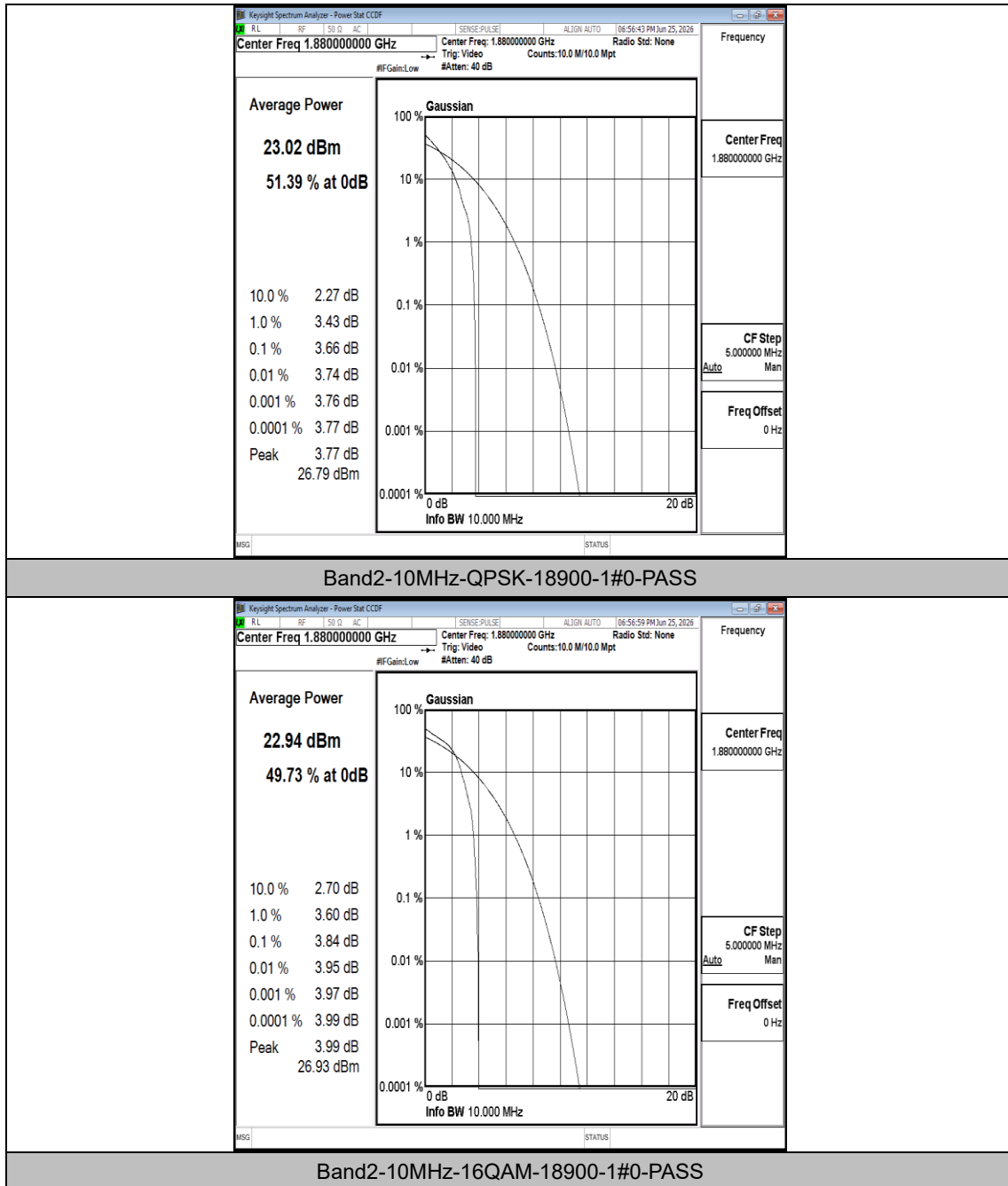


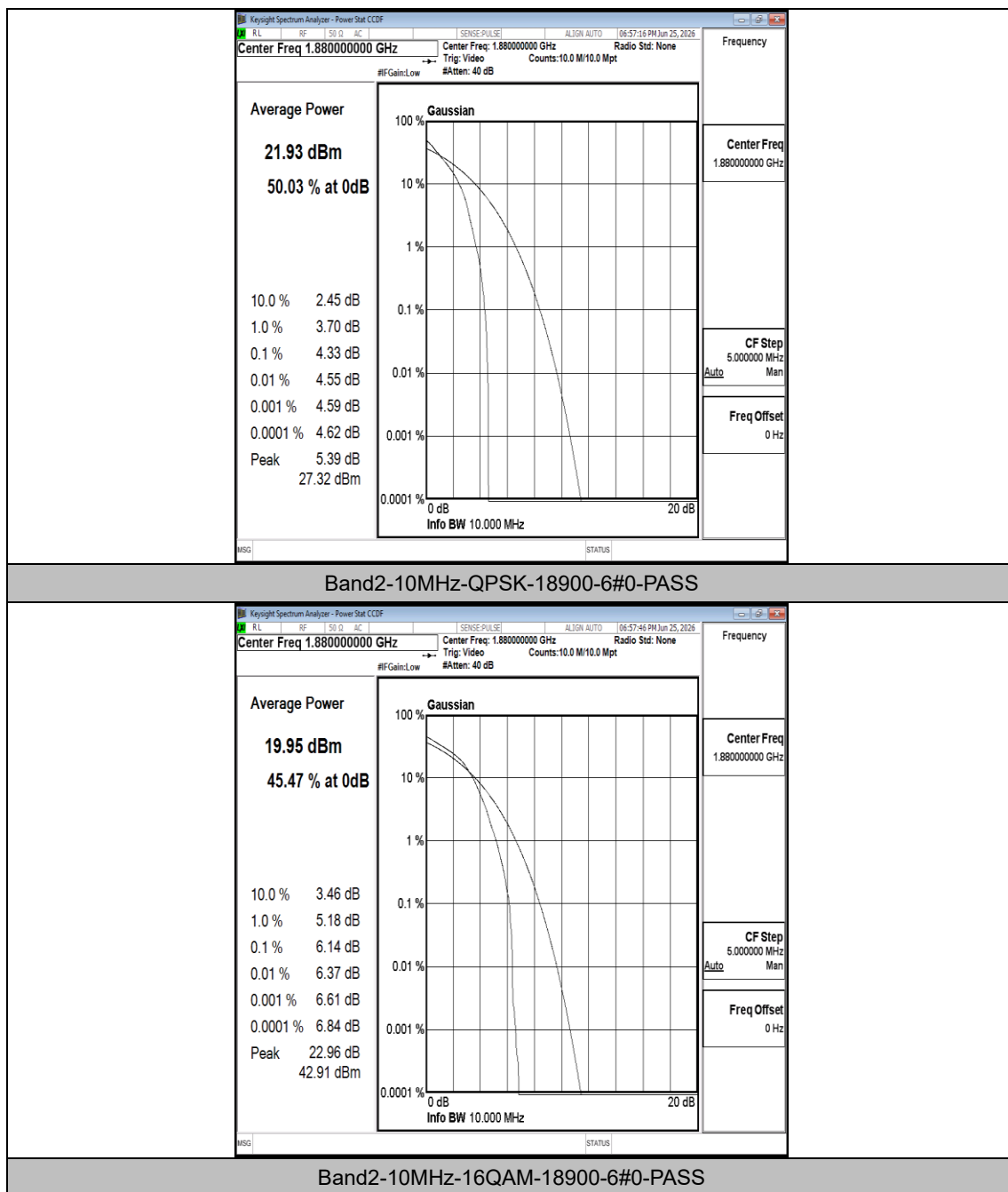


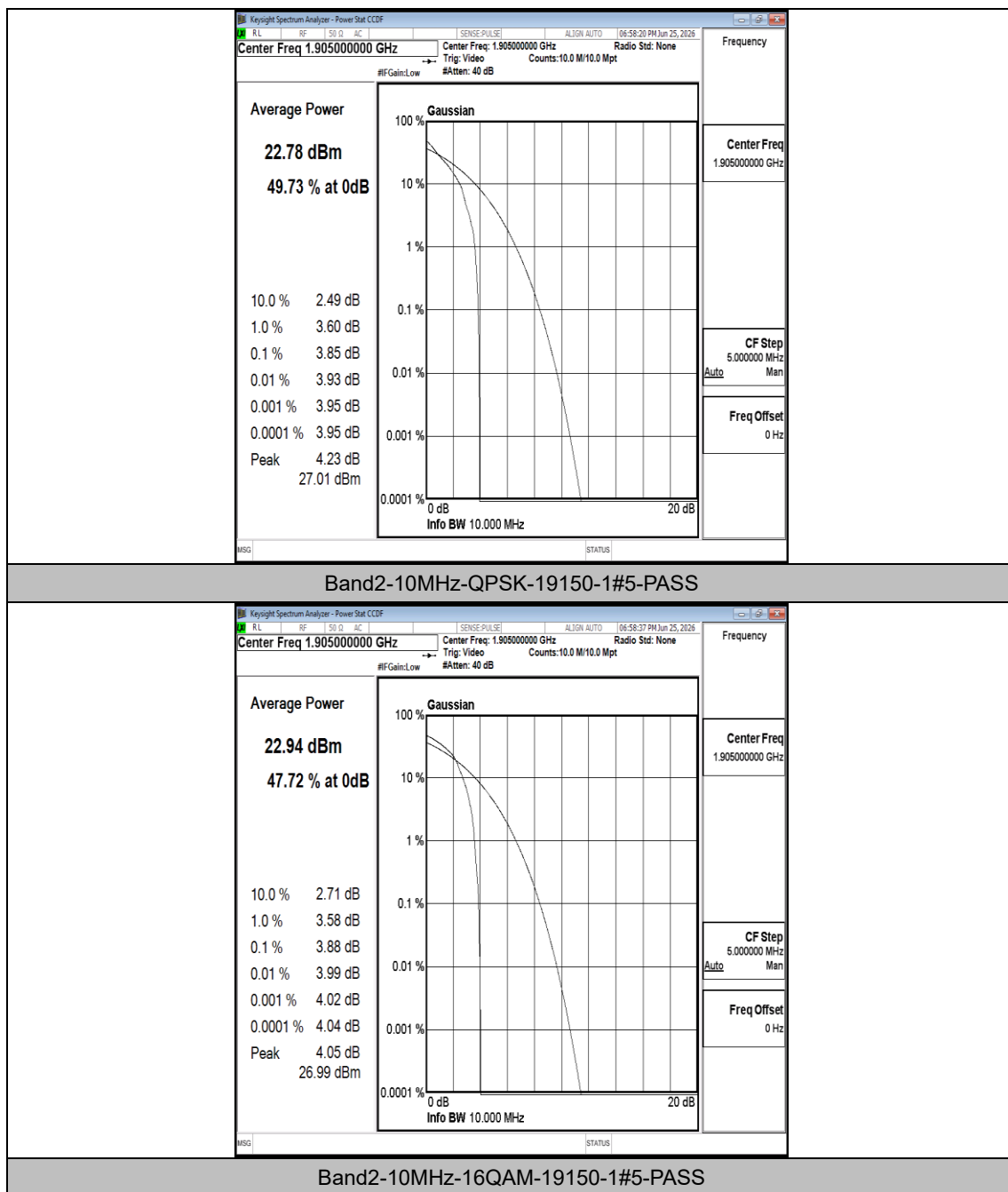


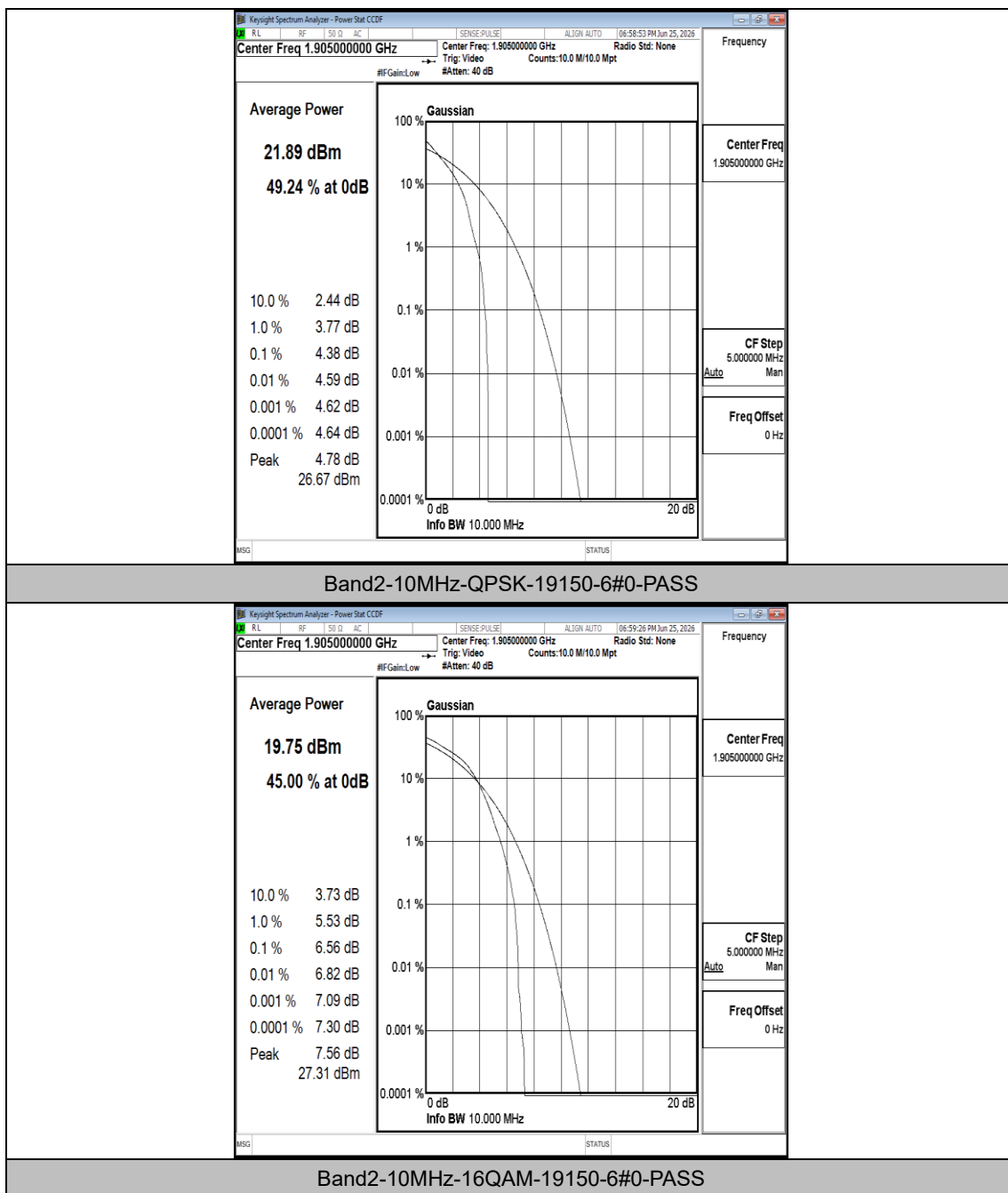


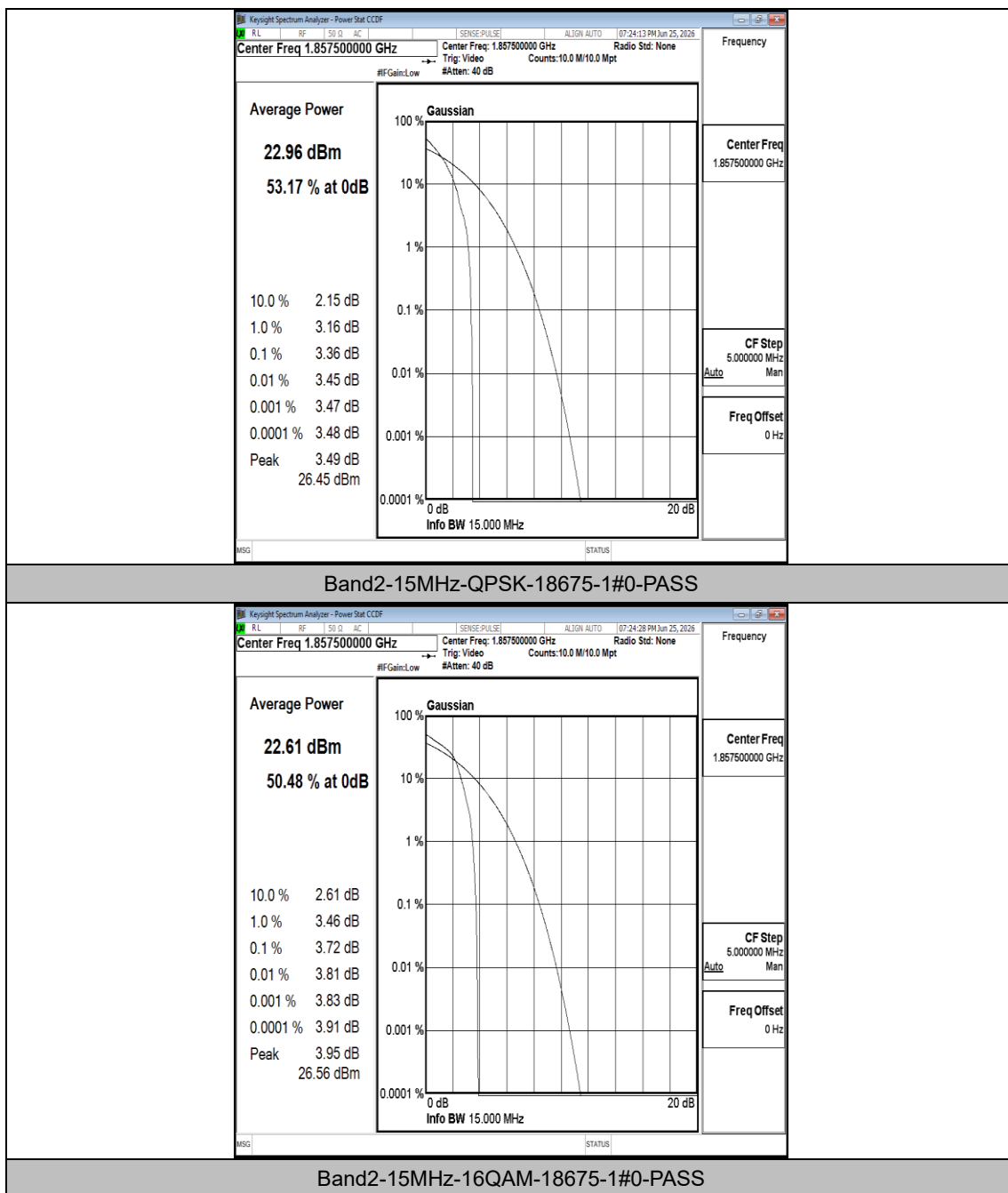


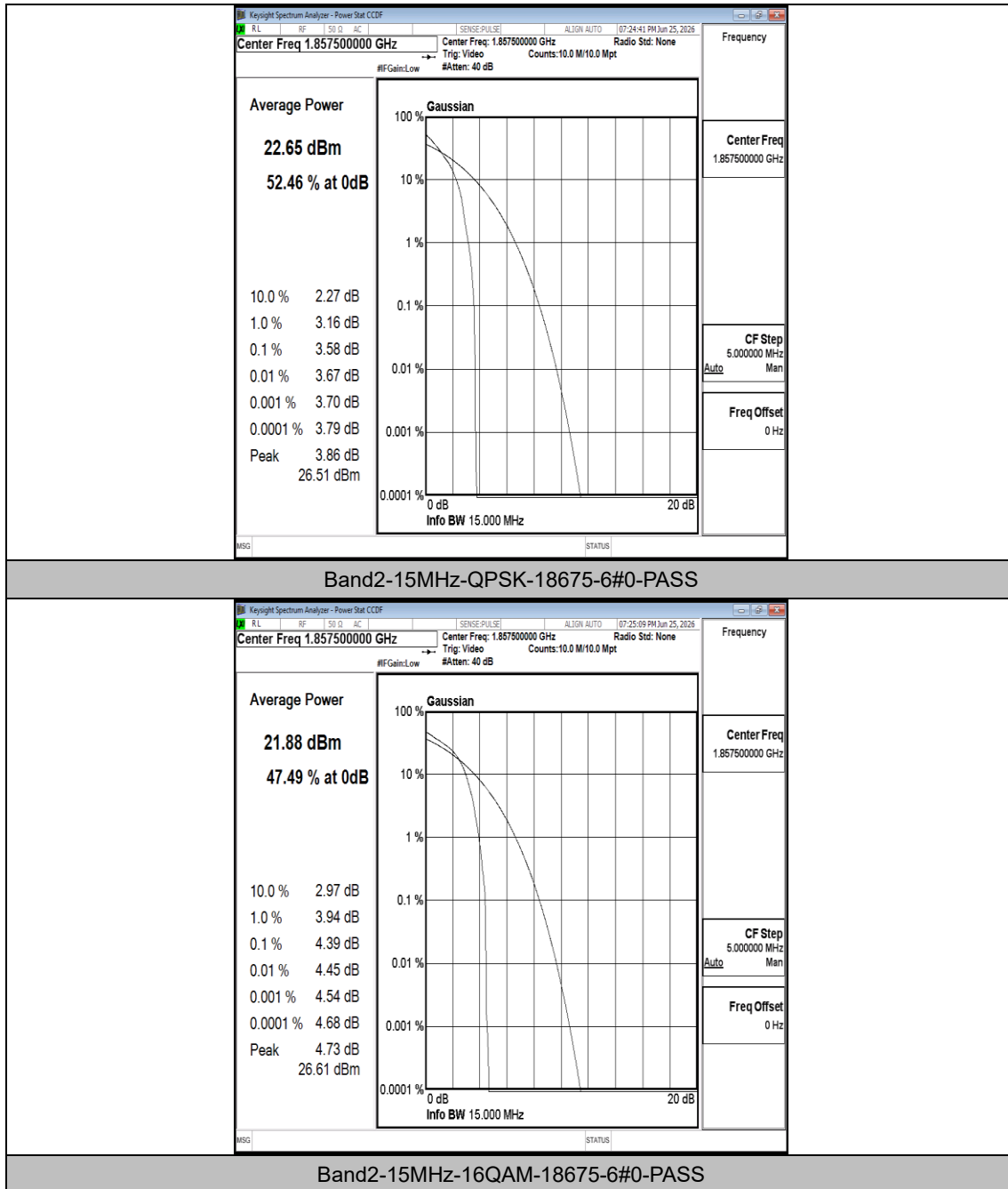


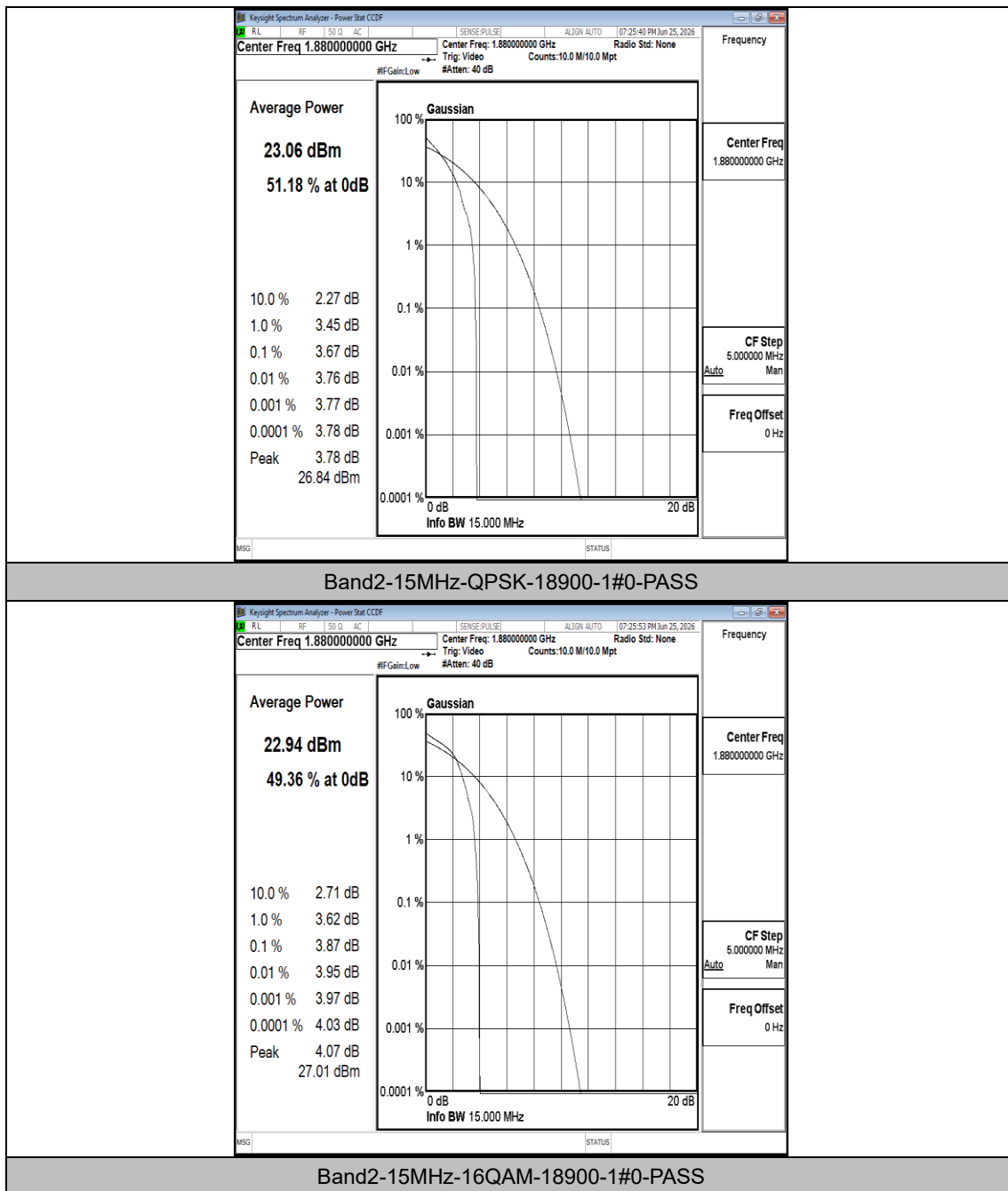


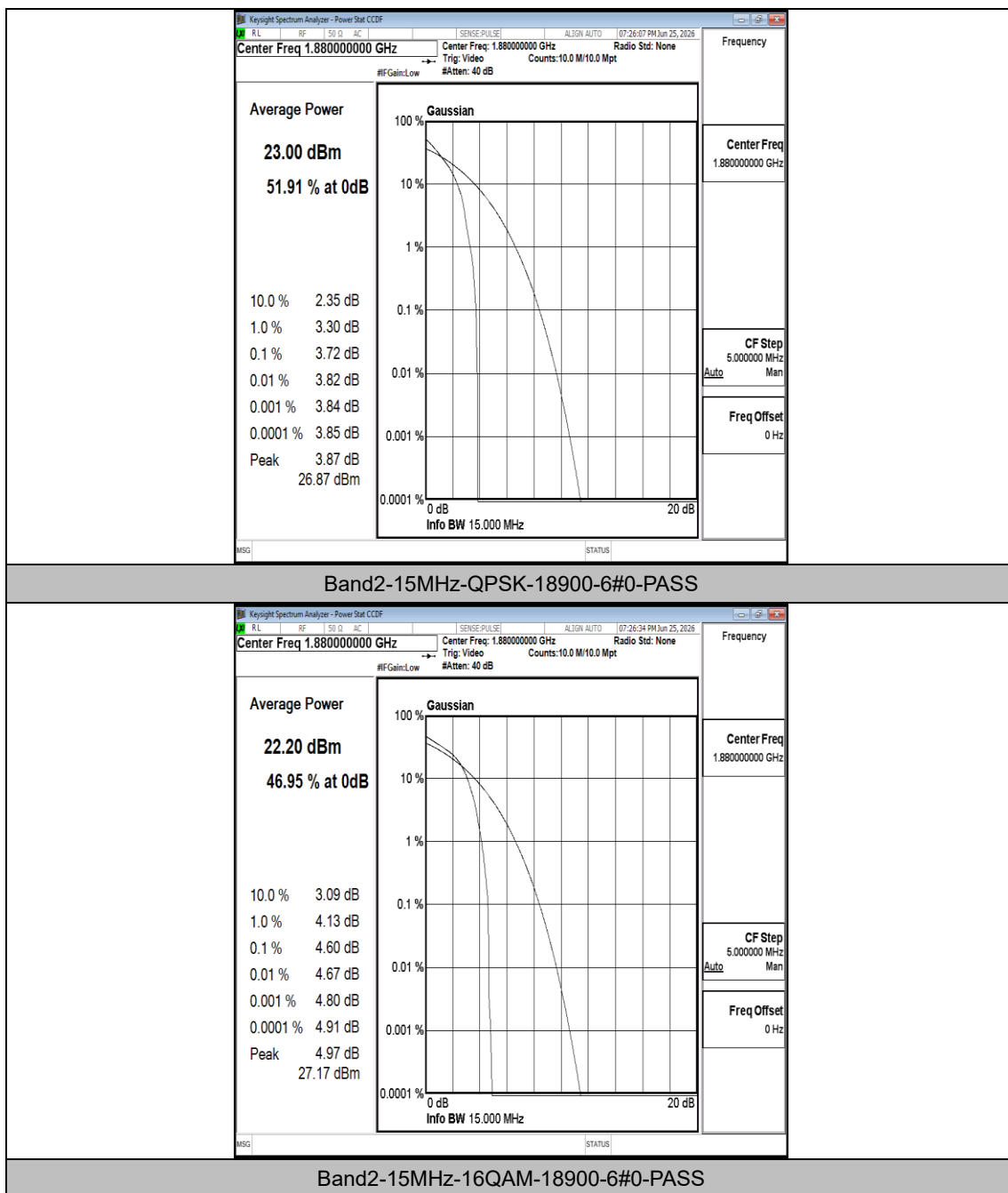


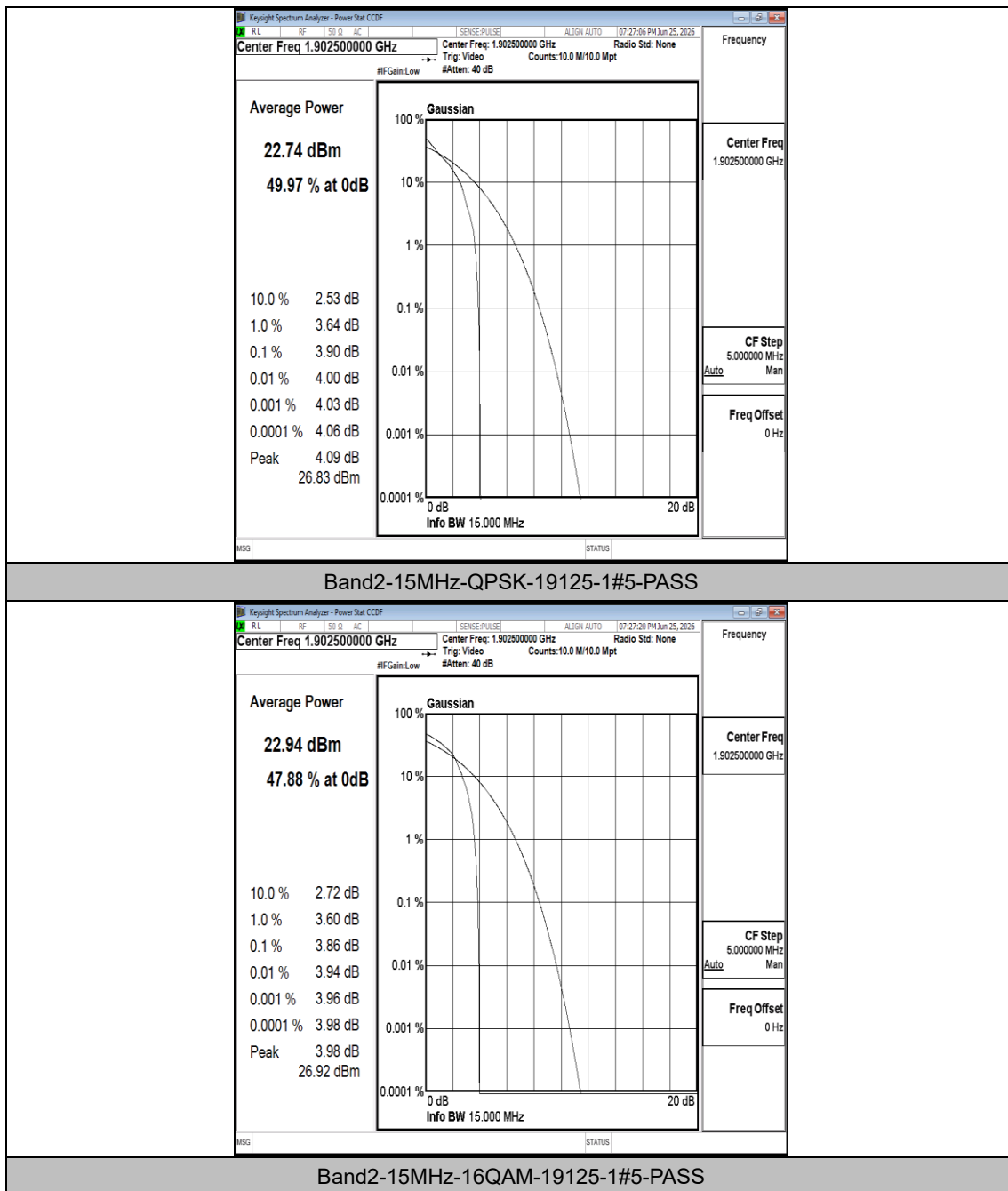


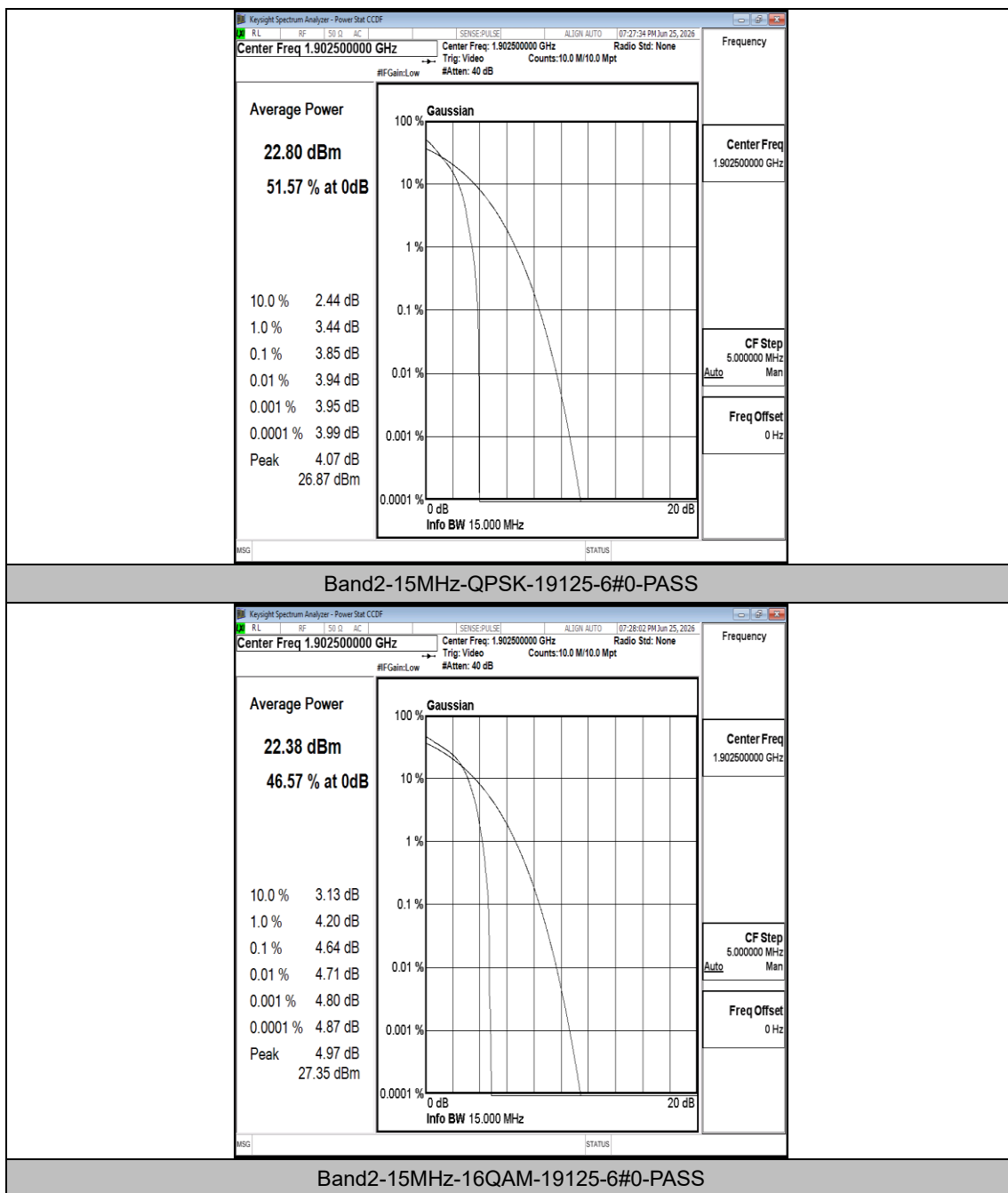


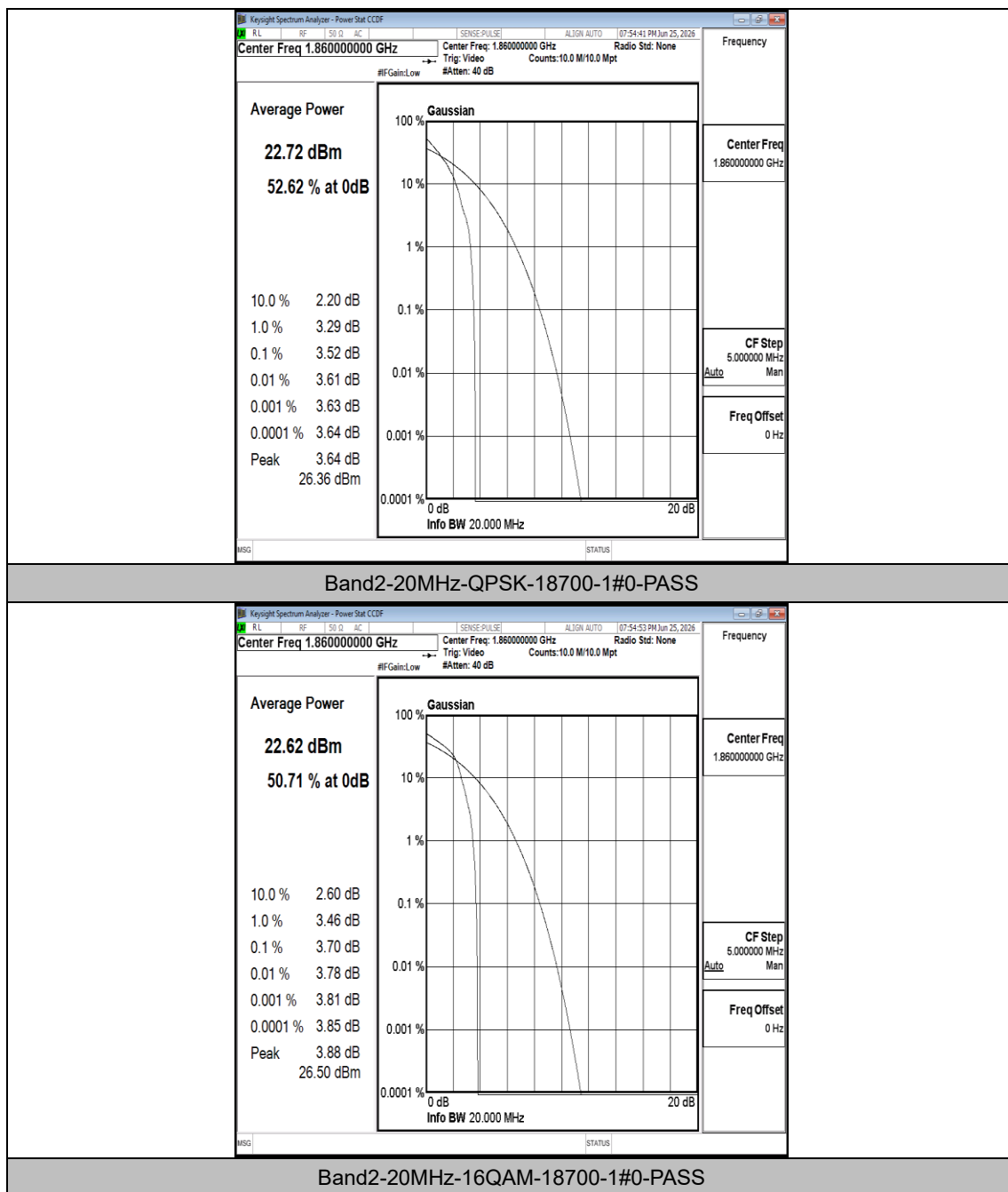


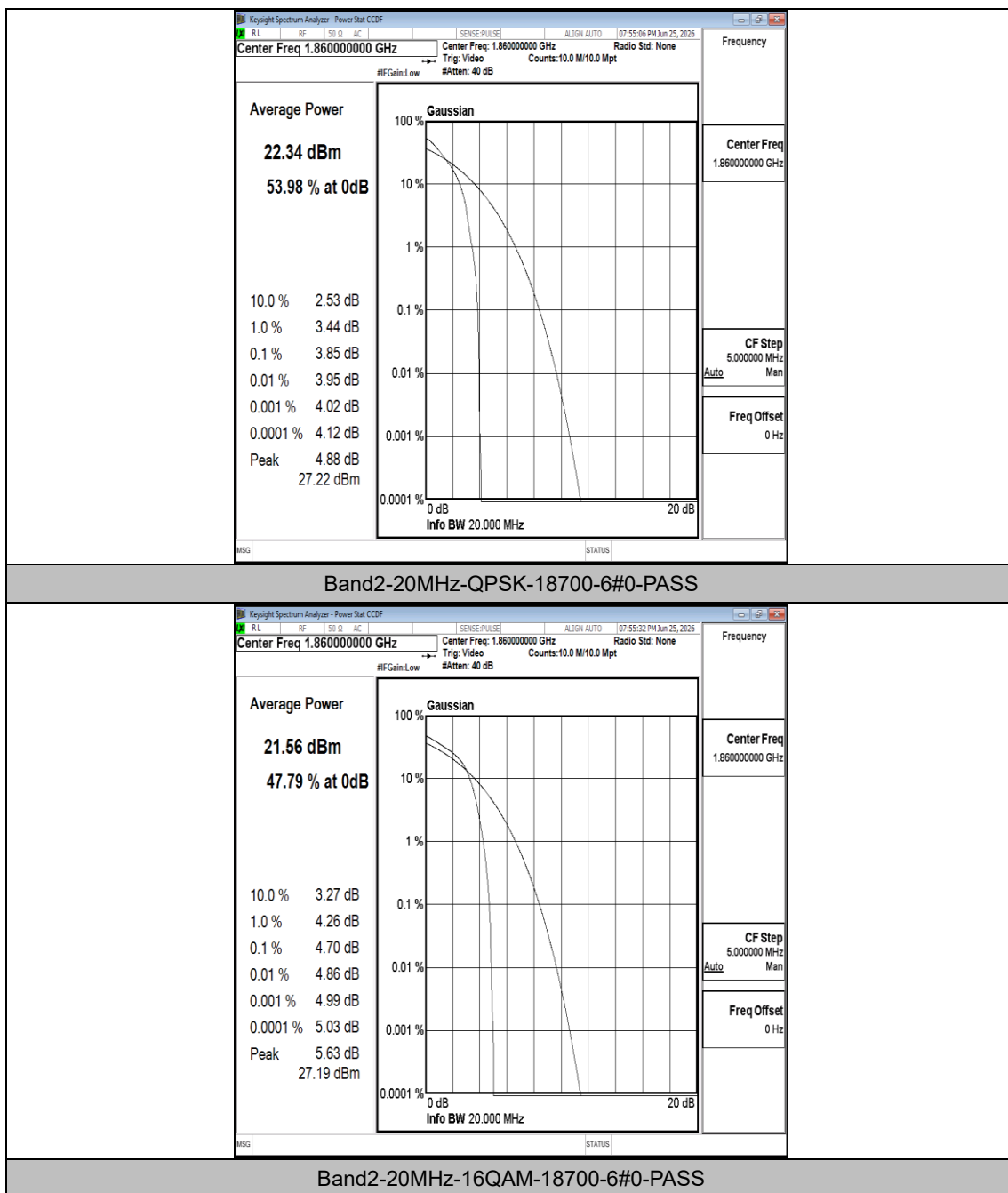


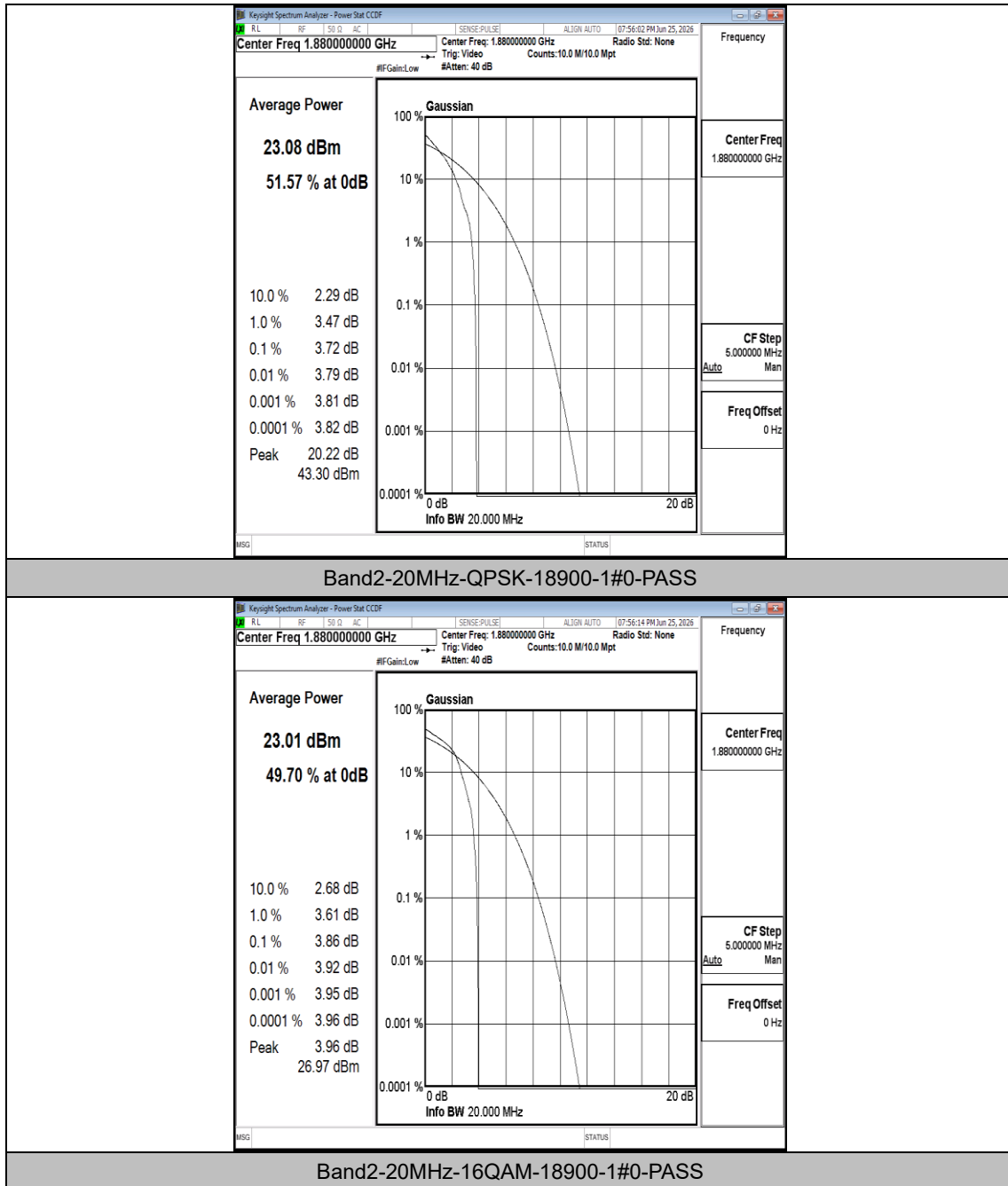


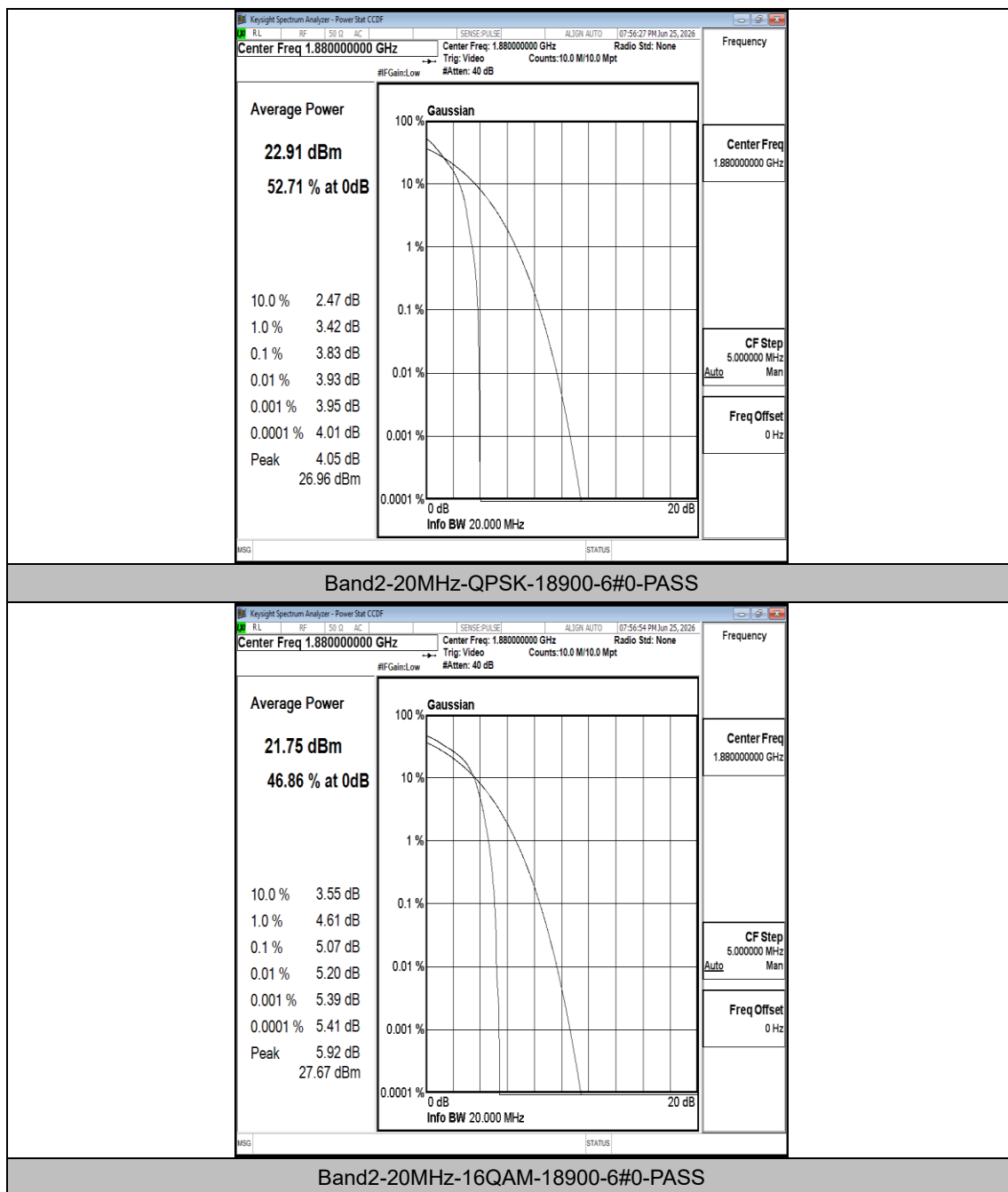


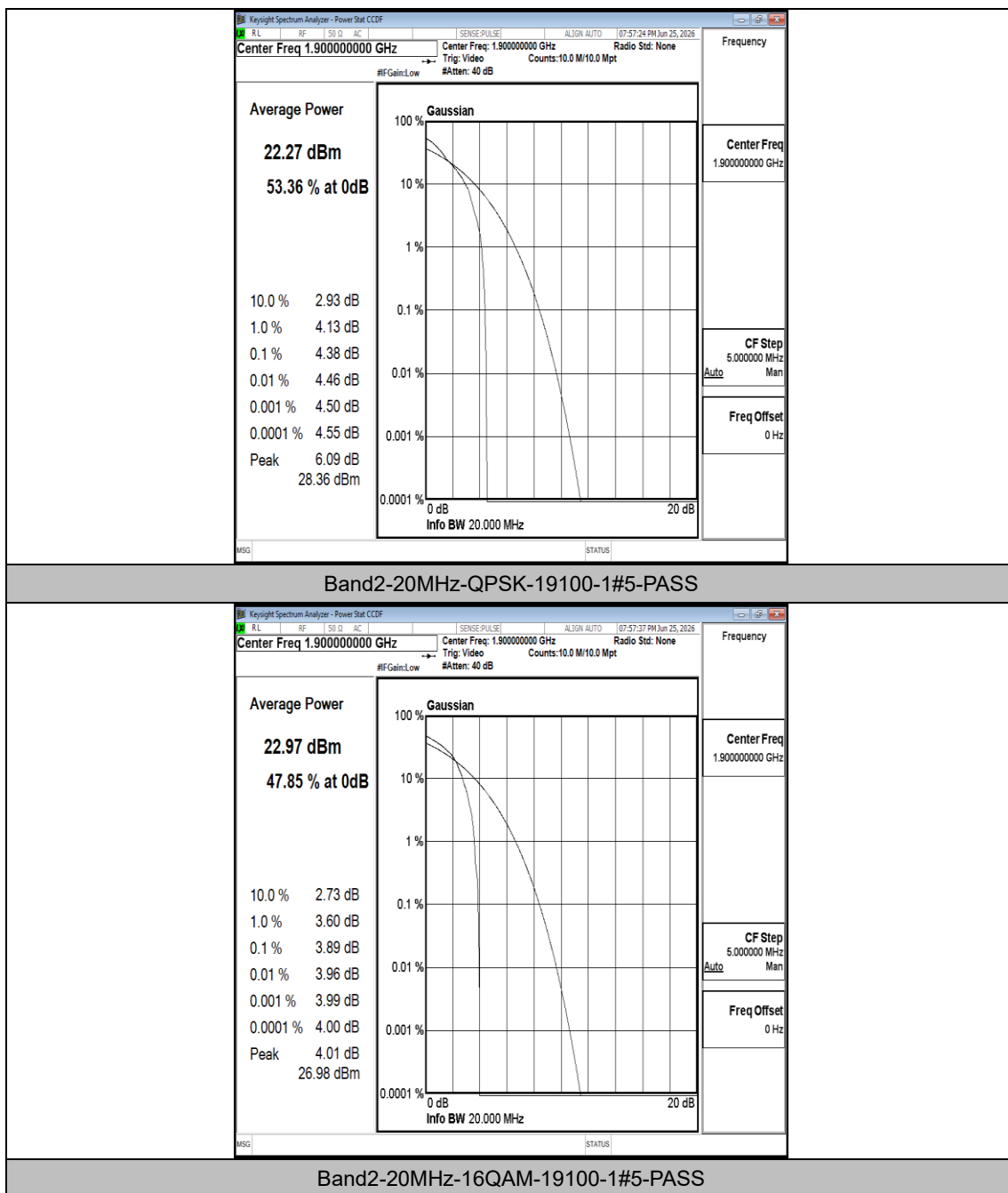


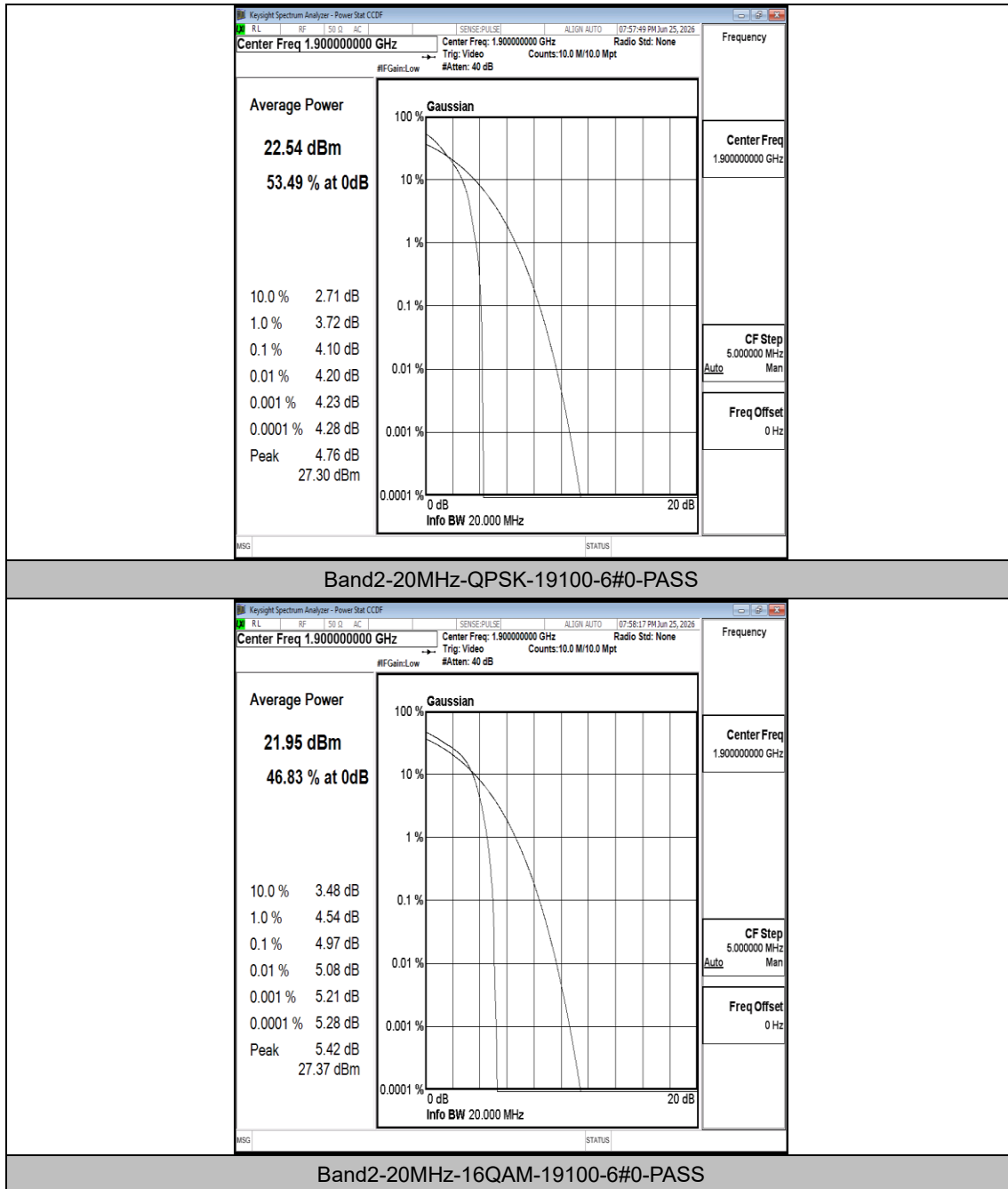












B.3 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6	0	Low	1.0907	1.297	PASS
Band2	1.4MHz	16QAM	18607	6	0	Low	1.0875	1.287	PASS
Band2	1.4MHz	QPSK	18900	6	0	Low	1.0915	1.304	PASS
Band2	1.4MHz	16QAM	18900	6	0	Low	1.0885	1.289	PASS
Band2	1.4MHz	QPSK	19193	6	0	High	1.0907	1.299	PASS
Band2	1.4MHz	16QAM	19193	6	0	High	1.0881	1.301	PASS
Band2	3MHz	QPSK	18615	6	0	Low	1.1105	1.336	PASS
Band2	3MHz	16QAM	18615	6	0	Low	1.1198	1.376	PASS
Band2	3MHz	QPSK	18900	6	0	Low	1.1199	1.337	PASS
Band2	3MHz	16QAM	18900	6	0	Low	1.1183	1.417	PASS
Band2	3MHz	QPSK	19185	6	0	High	1.1040	1.333	PASS
Band2	3MHz	16QAM	19185	6	0	High	1.1184	1.412	PASS
Band2	5MHz	QPSK	18625	6	0	Low	1.1927	1.437	PASS
Band2	5MHz	16QAM	18625	6	0	Low	1.1792	1.624	PASS
Band2	5MHz	QPSK	18900	6	0	Low	1.1963	1.462	PASS
Band2	5MHz	16QAM	18900	6	0	Low	1.1802	1.532	PASS
Band2	5MHz	QPSK	19175	6	0	High	1.1942	1.442	PASS
Band2	5MHz	16QAM	19175	6	0	High	1.1786	1.505	PASS
Band2	10MHz	QPSK	18650	6	0	Low	1.3455	1.846	PASS
Band2	10MHz	16QAM	18650	6	0	Low	1.3364	2.116	PASS
Band2	10MHz	QPSK	18900	6	0	Low	1.3575	1.889	PASS
Band2	10MHz	16QAM	18900	6	0	Low	1.3380	2.047	PASS
Band2	10MHz	QPSK	19150	6	0	High	1.3489	1.768	PASS
Band2	10MHz	16QAM	19150	6	0	High	1.3262	2.026	PASS
Band2	15MHz	QPSK	18675	6	0	Low	1.5666	2.586	PASS
Band2	15MHz	16QAM	18675	6	0	Low	1.5926	2.616	PASS
Band2	15MHz	QPSK	18900	6	0	Low	1.5563	2.503	PASS
Band2	15MHz	16QAM	18900	6	0	Low	1.5869	2.589	PASS
Band2	15MHz	QPSK	19125	6	0	High	1.5479	2.562	PASS
Band2	15MHz	16QAM	19125	6	0	High	1.6126	2.588	PASS
Band2	20MHz	QPSK	18700	6	0	Low	1.9694	2.915	PASS
Band2	20MHz	16QAM	18700	6	0	Low	2.0727	3.127	PASS
Band2	20MHz	QPSK	18900	6	0	Low	1.9539	2.880	PASS
Band2	20MHz	16QAM	18900	6	0	Low	2.0051	2.972	PASS

Band2	20MHz	QPSK	19100	6	0	High	1.9715	2.911	PASS
Band2	20MHz	16QAM	19100	6	0	High	2.0178	3.059	PASS

Test Graphs

