

Appendix I: Test Data for E-UTRA Band 7

Product Name: GNSS Receiver

Test Model: Xbase

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	56.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

I.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.56	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.46	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.50	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.55	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.59	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.66	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.63	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.41	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.03	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.84	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.61	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.74	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.77	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.67	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.70	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.74	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.69	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.66	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.57	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.64	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.60	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.17	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.67	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.22	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.59	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.59	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.26	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.68	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.31	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.33	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.27	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.46	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.39	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.35	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.50	PASS
Band7	5MHz	16QAM	21425	1RB#0	20.76	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.55	PASS

Band7	5MHz	16QAM	21425	1RB#24	20.78	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.37	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.43	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.55	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.63	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.68	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.87	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.65	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.71	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.67	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.74	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.72	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.83	PASS
Band7	10MHz	16QAM	20800	1RB#24	23.26	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.78	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.75	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.73	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.77	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.72	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.74	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.94	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.75	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.78	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.74	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.81	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.74	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.61	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.13	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.68	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.76	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.79	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.83	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.78	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.54	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.74	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.59	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.65	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.64	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.71	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.65	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.71	PASS
Band7	10MHz	16QAM	21400	1RB#24	23.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.71	PASS

Band7	10MHz	16QAM	21400	25RB#0	21.61	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.63	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.65	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.55	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.65	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.79	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.58	PASS
Band7	15MHz	QPSK	20825	38RB#0	22.78	PASS
Band7	15MHz	QPSK	20825	38RB#18	22.79	PASS
Band7	15MHz	QPSK	20825	38RB#37	22.81	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.76	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.85	PASS
Band7	15MHz	16QAM	20825	1RB#38	23.03	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.81	PASS
Band7	15MHz	16QAM	20825	38RB#0	21.68	PASS
Band7	15MHz	16QAM	20825	38RB#18	21.80	PASS
Band7	15MHz	16QAM	20825	38RB#37	21.75	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.75	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.68	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.74	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.67	PASS
Band7	15MHz	QPSK	21100	38RB#0	22.84	PASS
Band7	15MHz	QPSK	21100	38RB#18	22.87	PASS
Band7	15MHz	QPSK	21100	38RB#37	22.88	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.88	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.57	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.97	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.56	PASS
Band7	15MHz	16QAM	21100	38RB#0	21.67	PASS
Band7	15MHz	16QAM	21100	38RB#18	21.81	PASS
Band7	15MHz	16QAM	21100	38RB#37	21.81	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.78	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.53	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.58	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.49	PASS
Band7	15MHz	QPSK	21375	38RB#0	22.70	PASS
Band7	15MHz	QPSK	21375	38RB#18	22.70	PASS
Band7	15MHz	QPSK	21375	38RB#37	22.73	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.73	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.67	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.82	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.62	PASS
Band7	15MHz	16QAM	21375	38RB#0	21.65	PASS

Band7	15MHz	16QAM	21375	38RB#18	21.55	PASS
Band7	15MHz	16QAM	21375	38RB#37	21.61	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.53	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.56	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.94	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.52	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.59	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.69	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.76	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.67	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.65	PASS
Band7	20MHz	16QAM	20850	1RB#49	23.24	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.60	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.59	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.68	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.72	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.72	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.43	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.90	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.39	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.62	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.82	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.74	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.77	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.51	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.14	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.48	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.73	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.80	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.81	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.72	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.58	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.85	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.48	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.66	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.65	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.52	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.57	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.64	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.97	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.39	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.66	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.62	PASS

Band7	20MHz	16QAM	21350	50RB#50	21.49	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.59	PASS

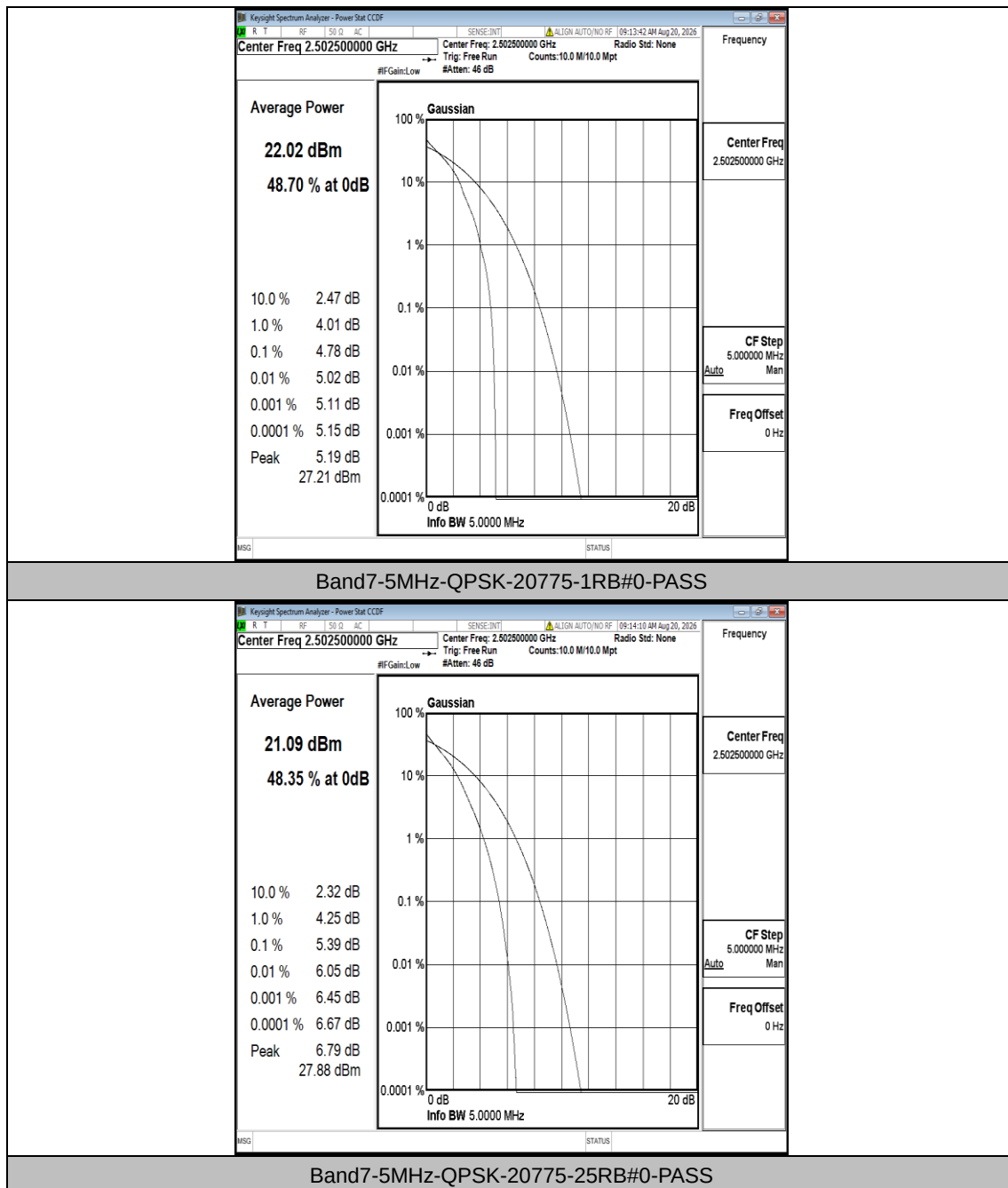
I.2 Peak-to-Average Ratio(CCDF)

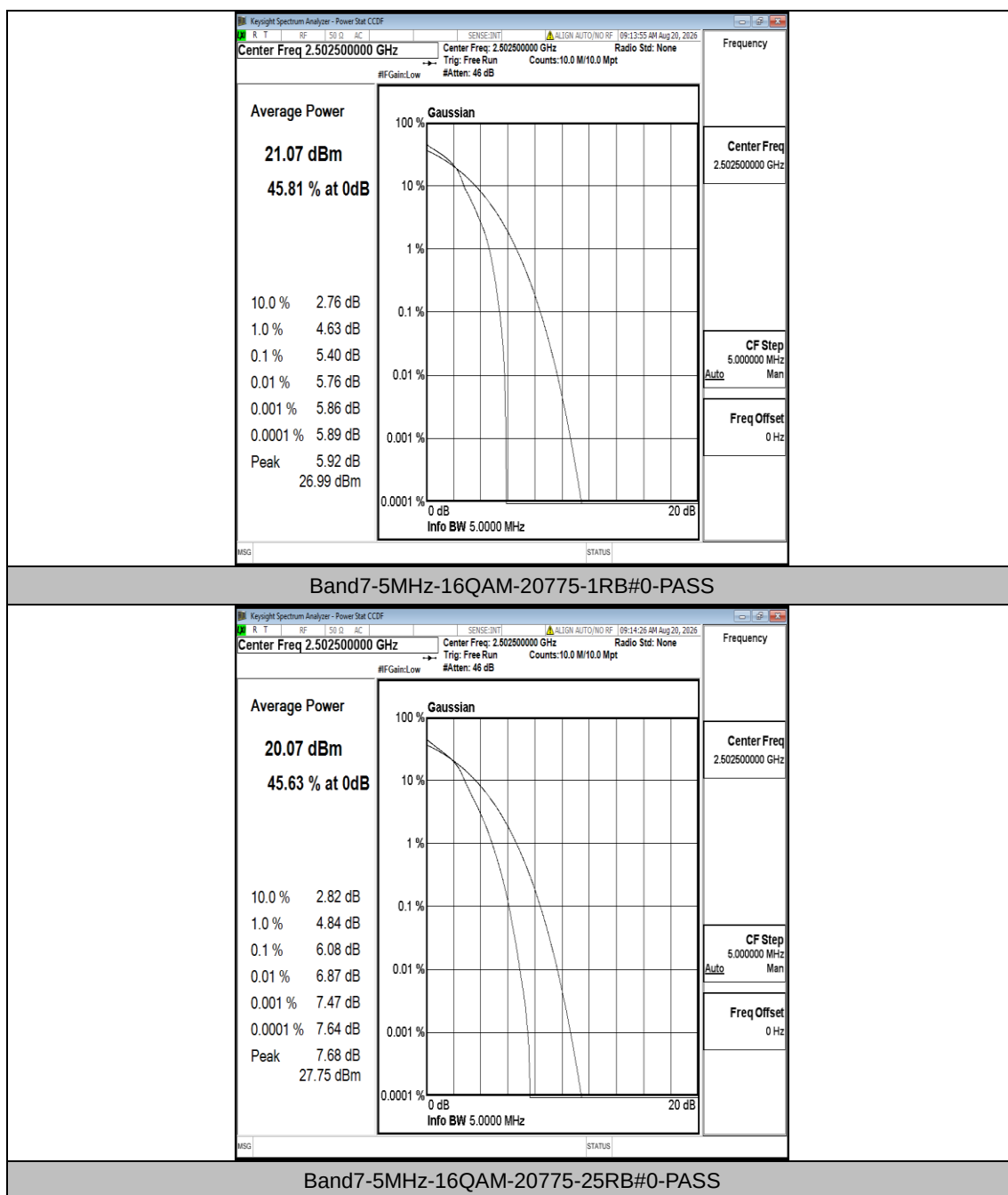
Test Result

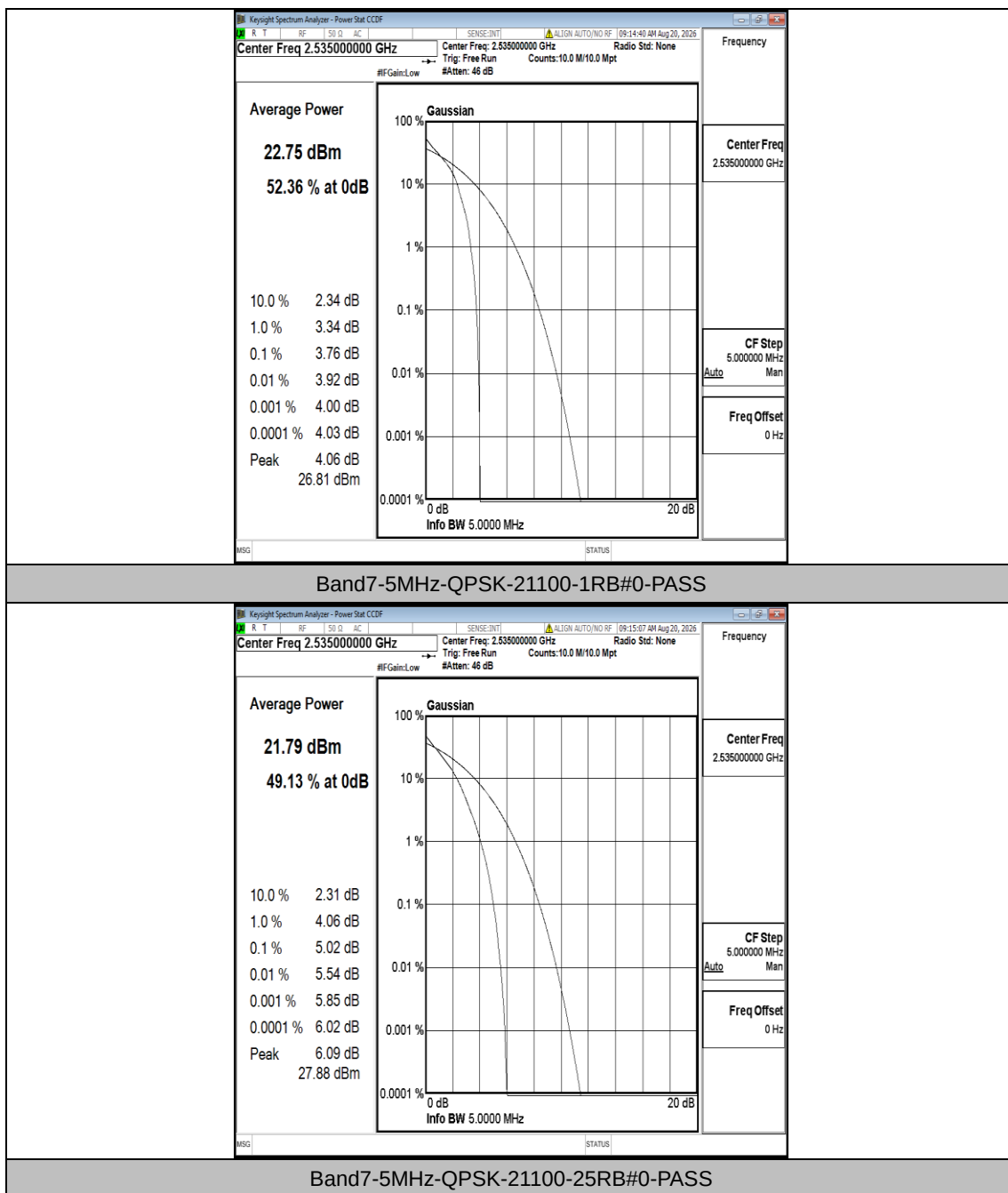
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	4.78	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.39	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	5.40	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.08	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	3.76	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.02	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	4.54	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.72	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	4.54	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.23	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	5.19	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.92	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	4.56	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.37	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	5.45	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.10	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	3.48	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.03	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	4.44	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.78	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	4.49	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.28	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	5.40	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.00	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	4.82	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.25	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	5.70	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.04	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	4.79	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	4.98	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	5.36	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	5.81	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	4.80	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.20	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	5.69	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	5.99	13	PASS

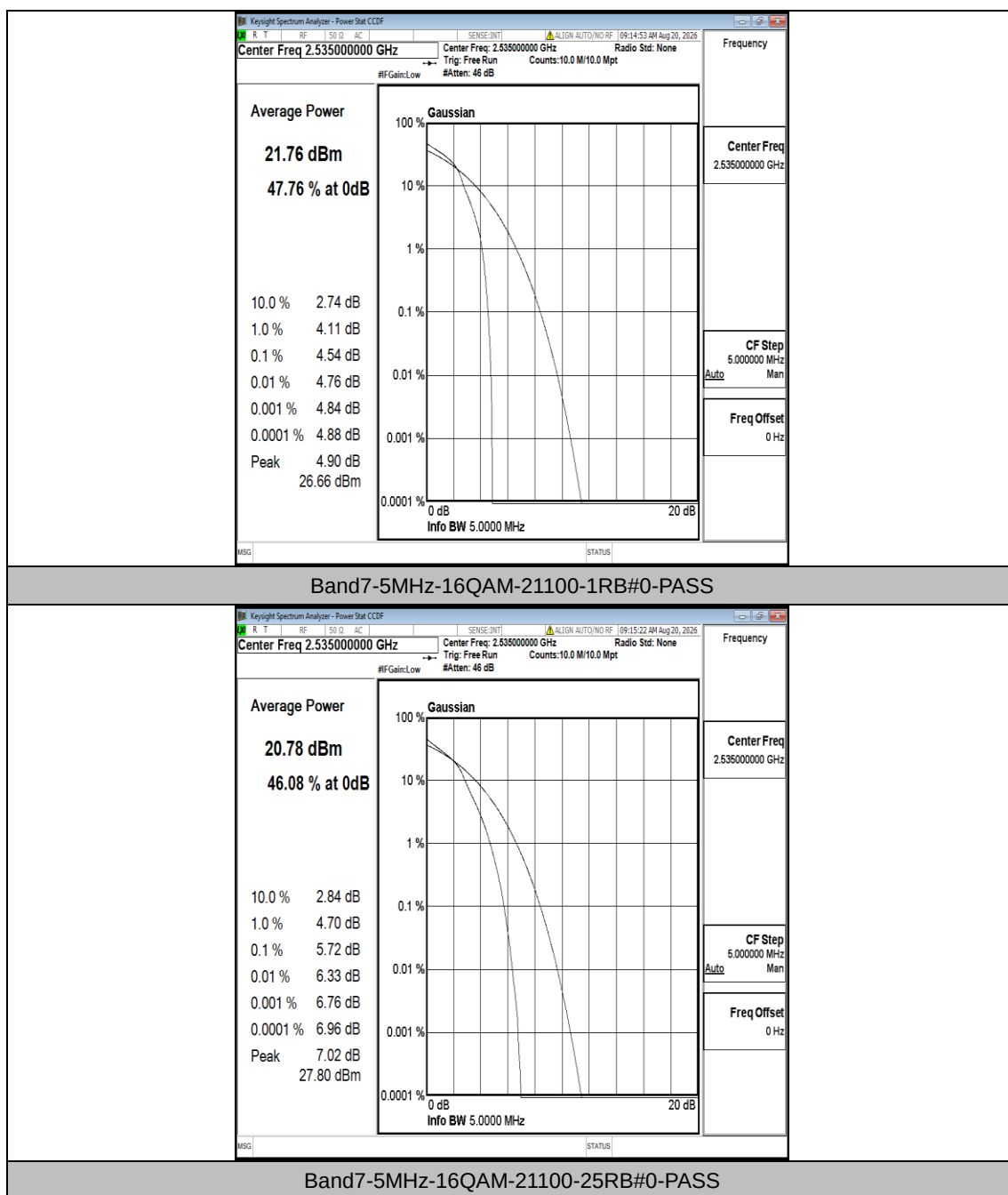
Band7	20MHz	QPSK	20850	1RB#0	4.59	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.32	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	5.20	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.10	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	3.66	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.99	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	4.39	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.80	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.57	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.26	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	5.17	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.04	13	PASS

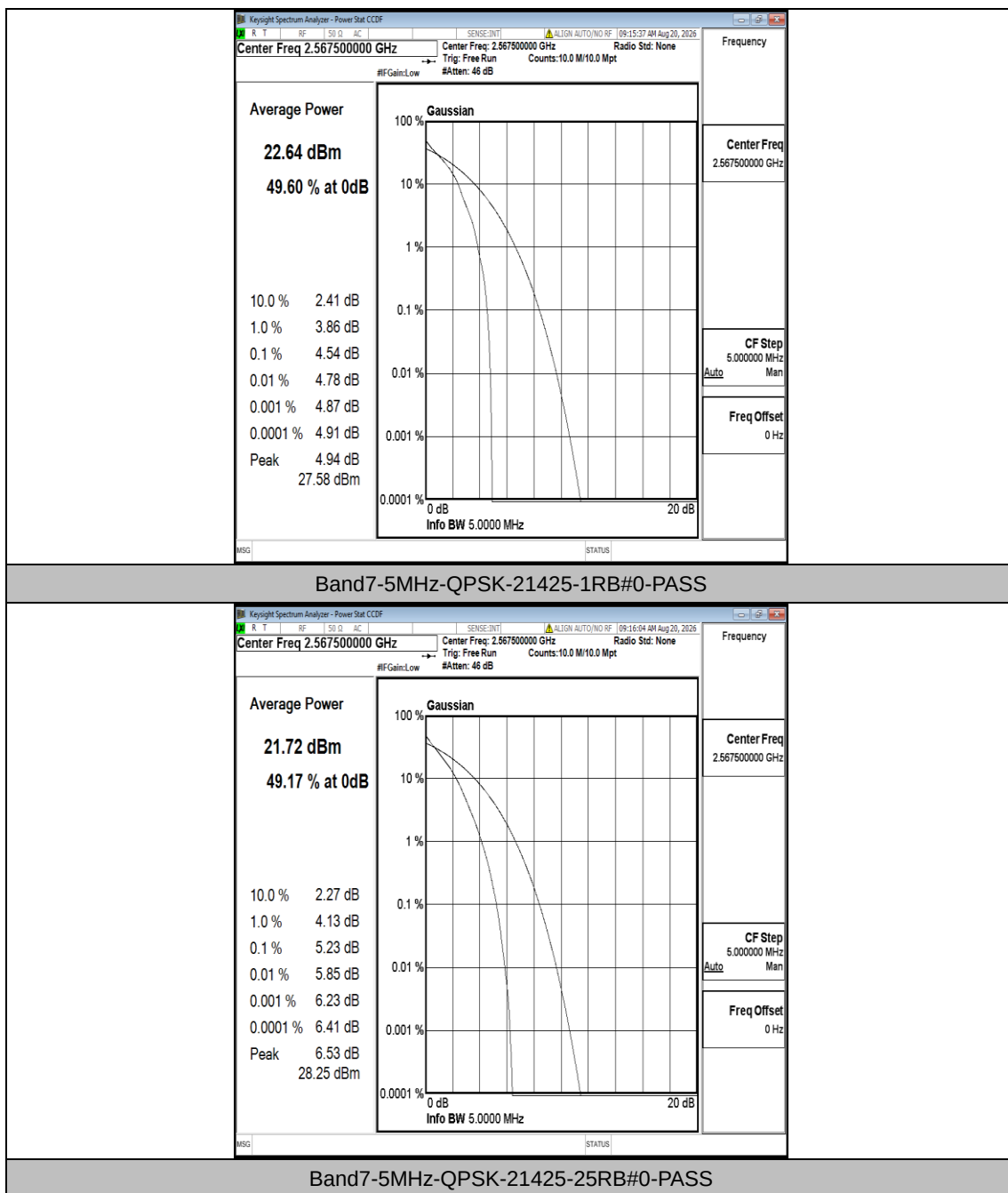
Test Graphs

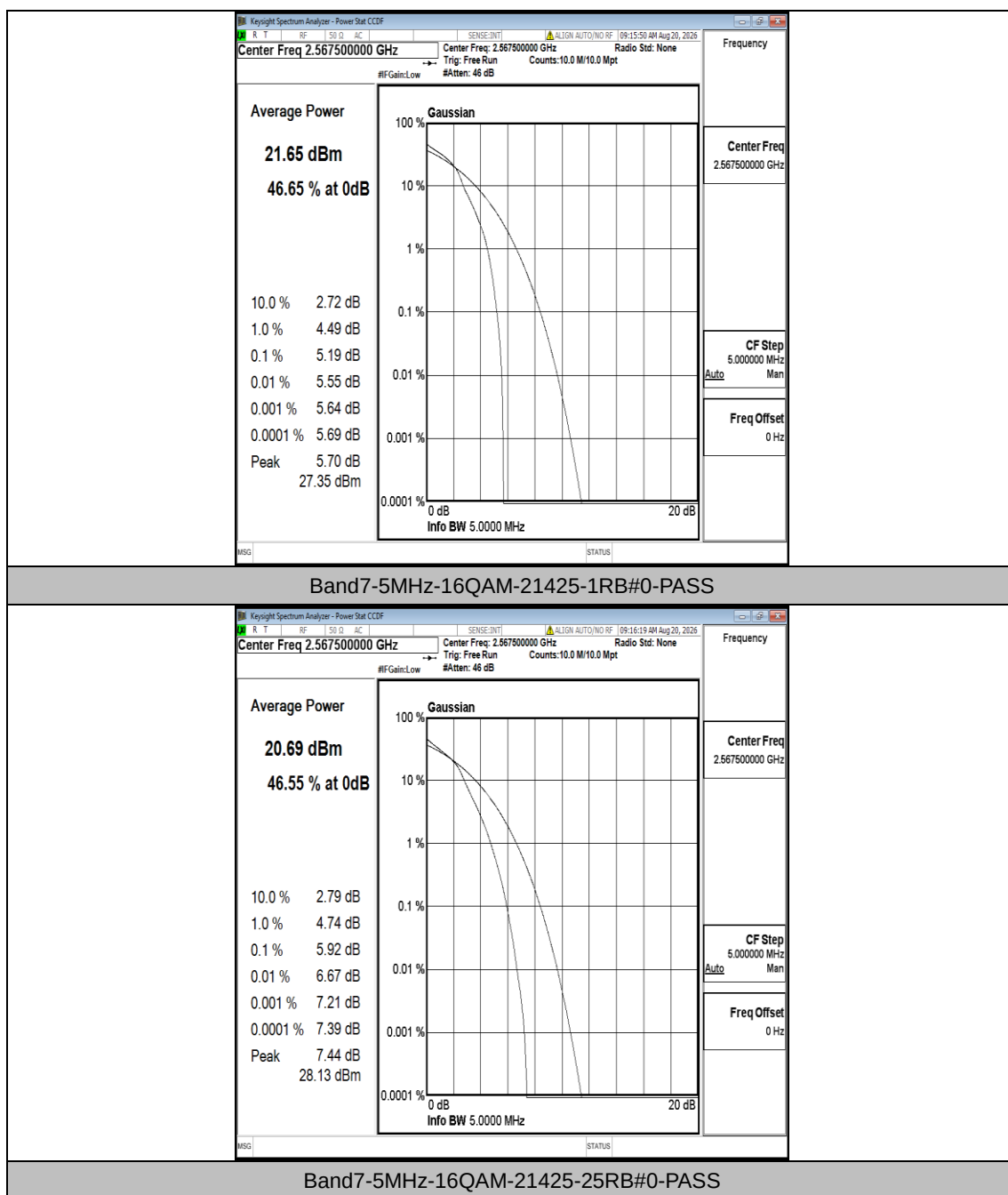


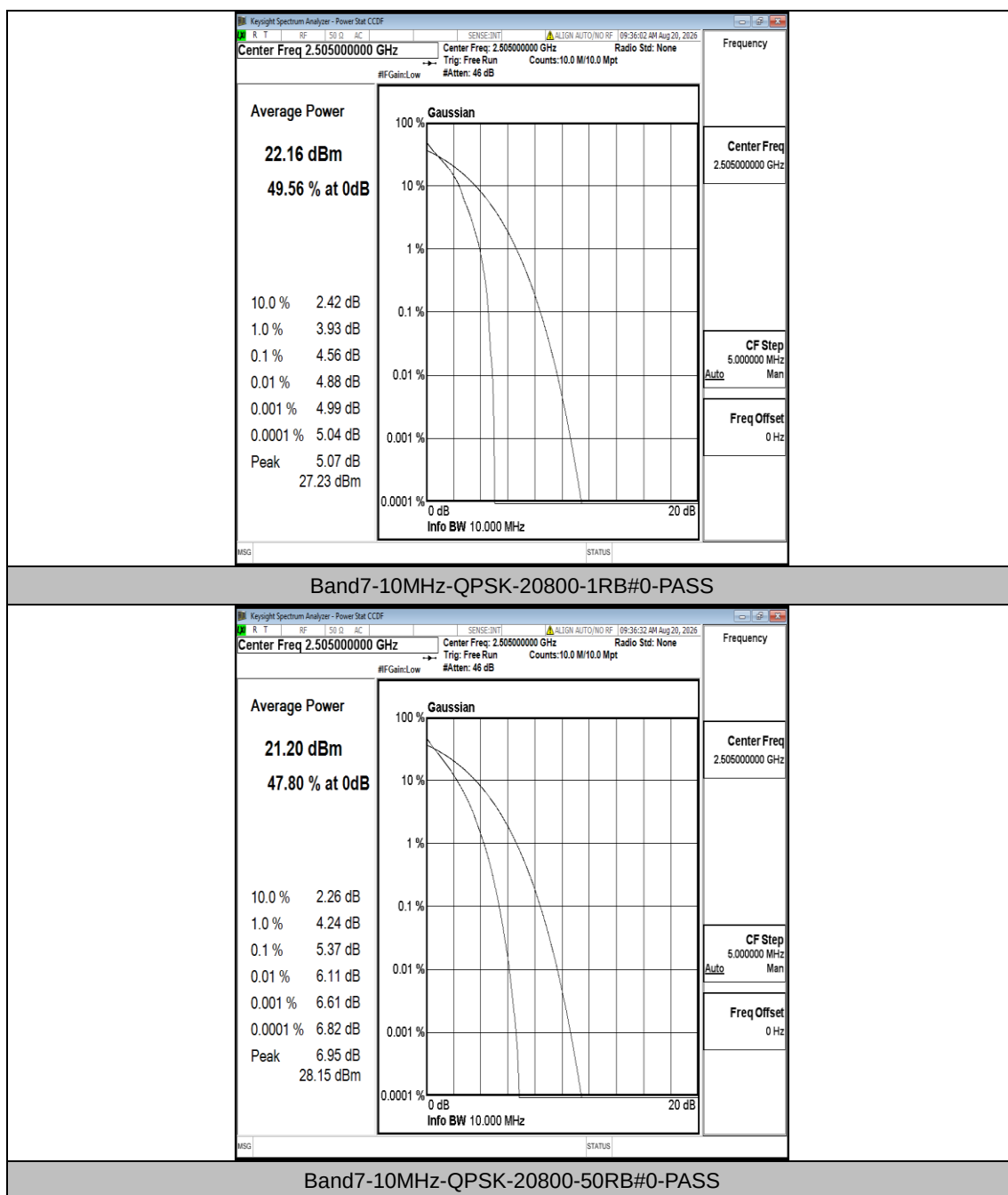


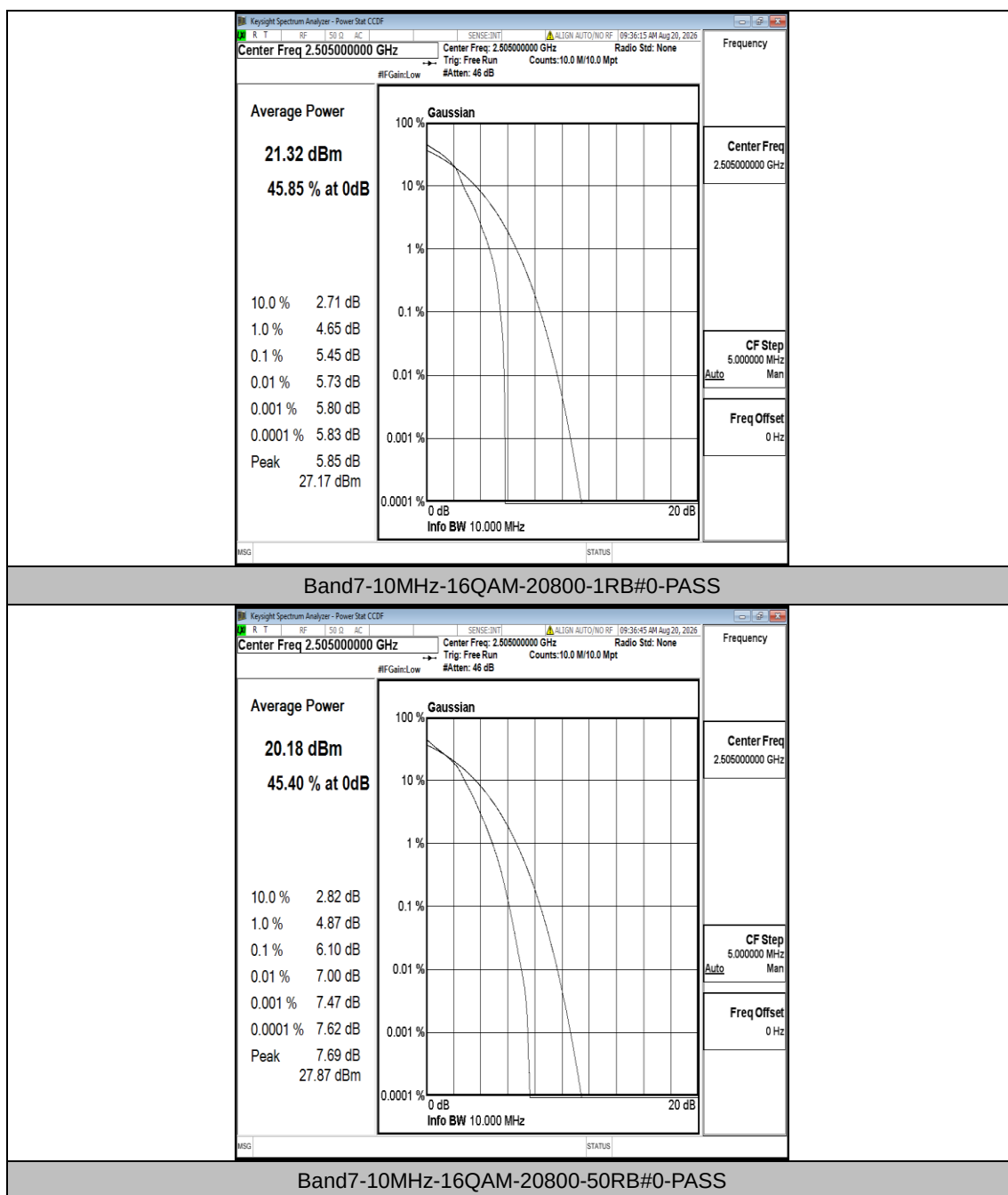


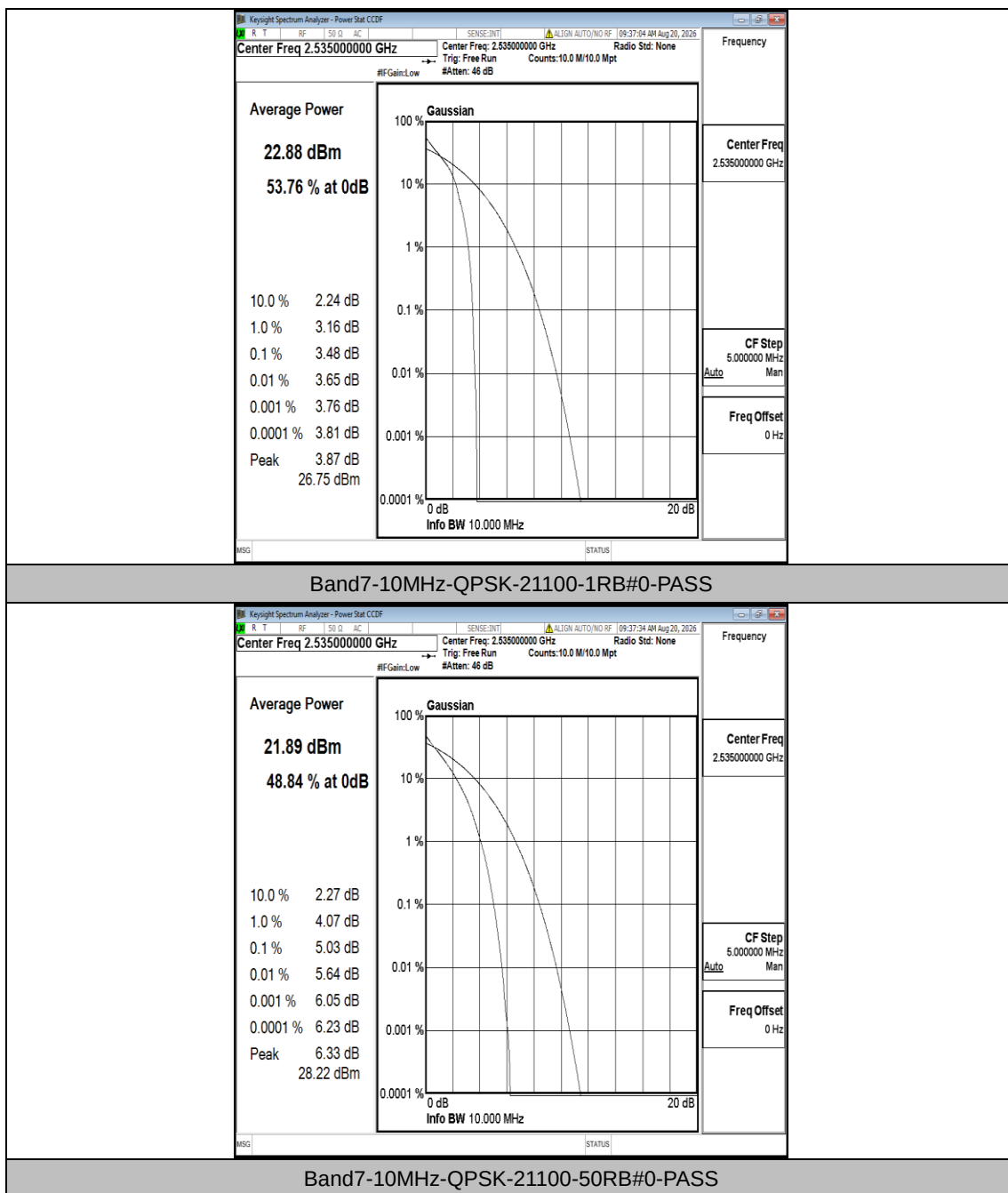


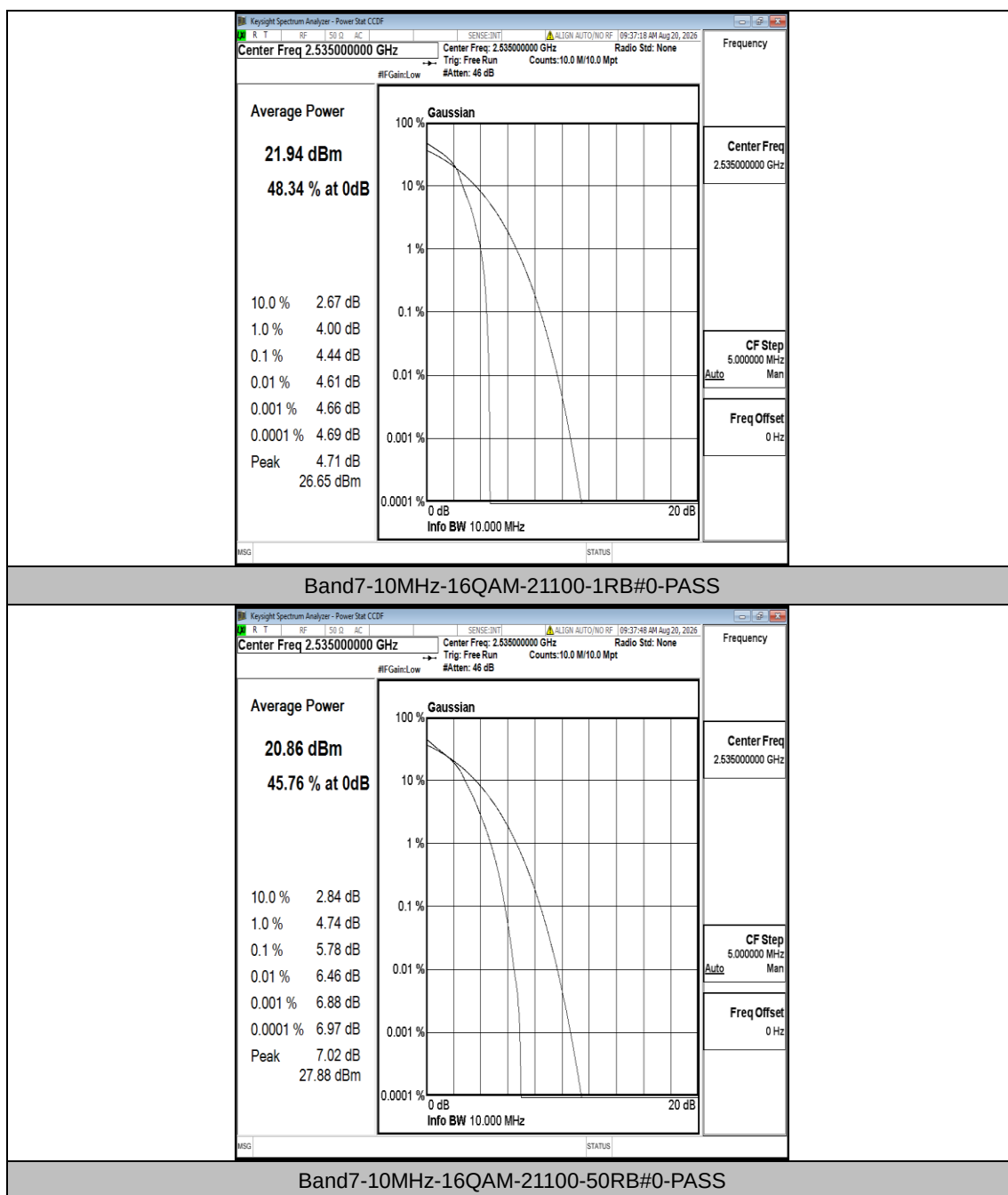


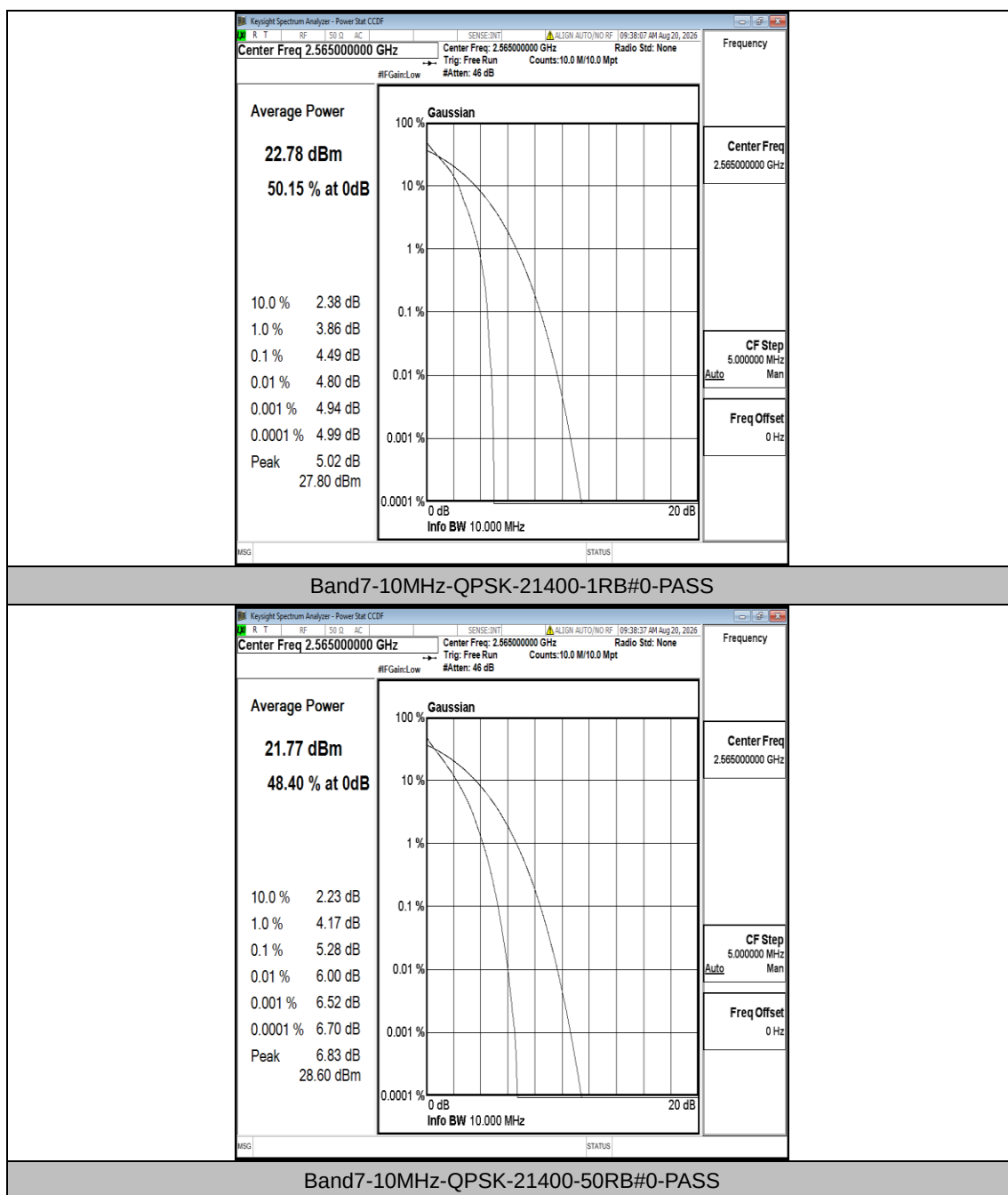


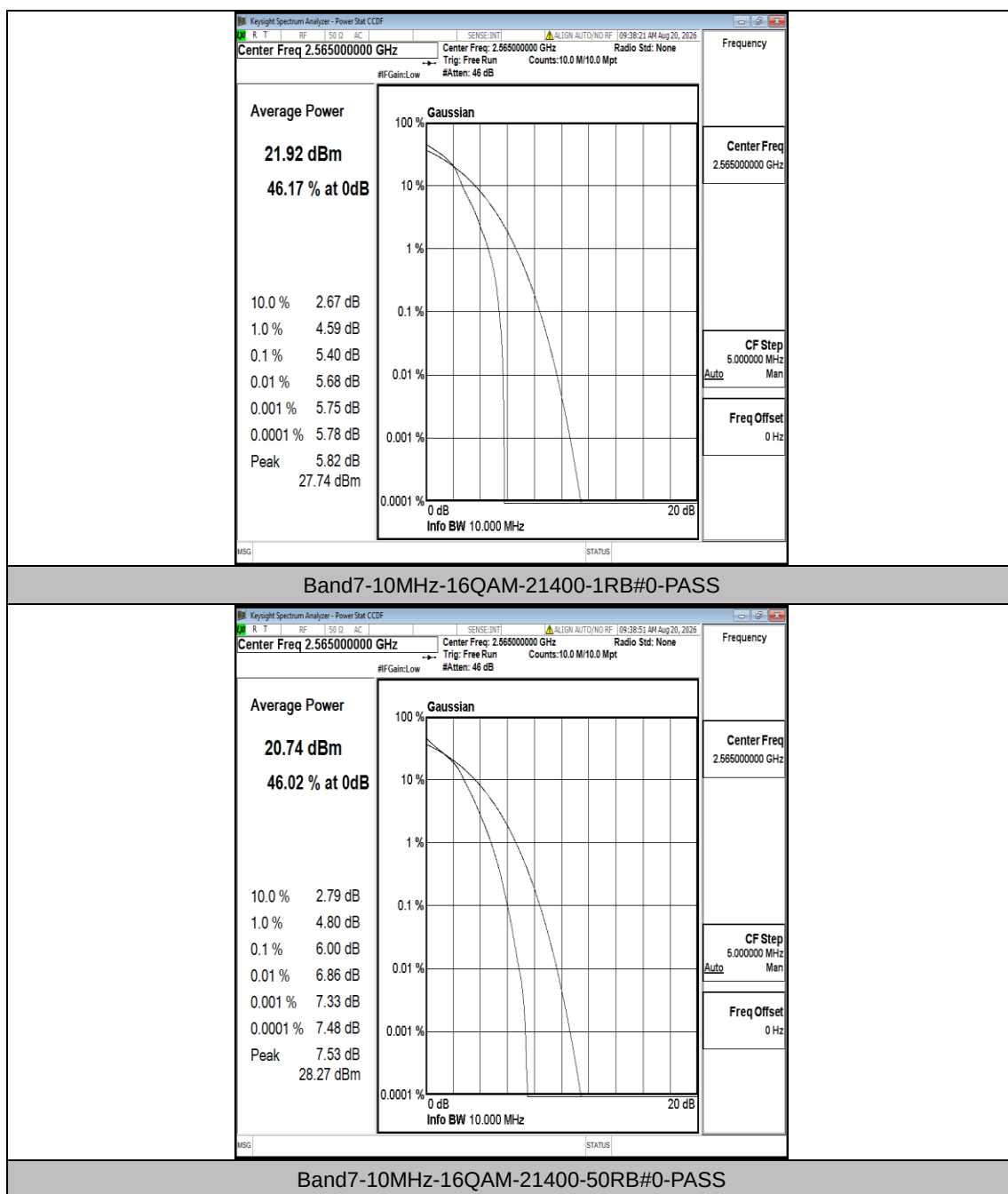


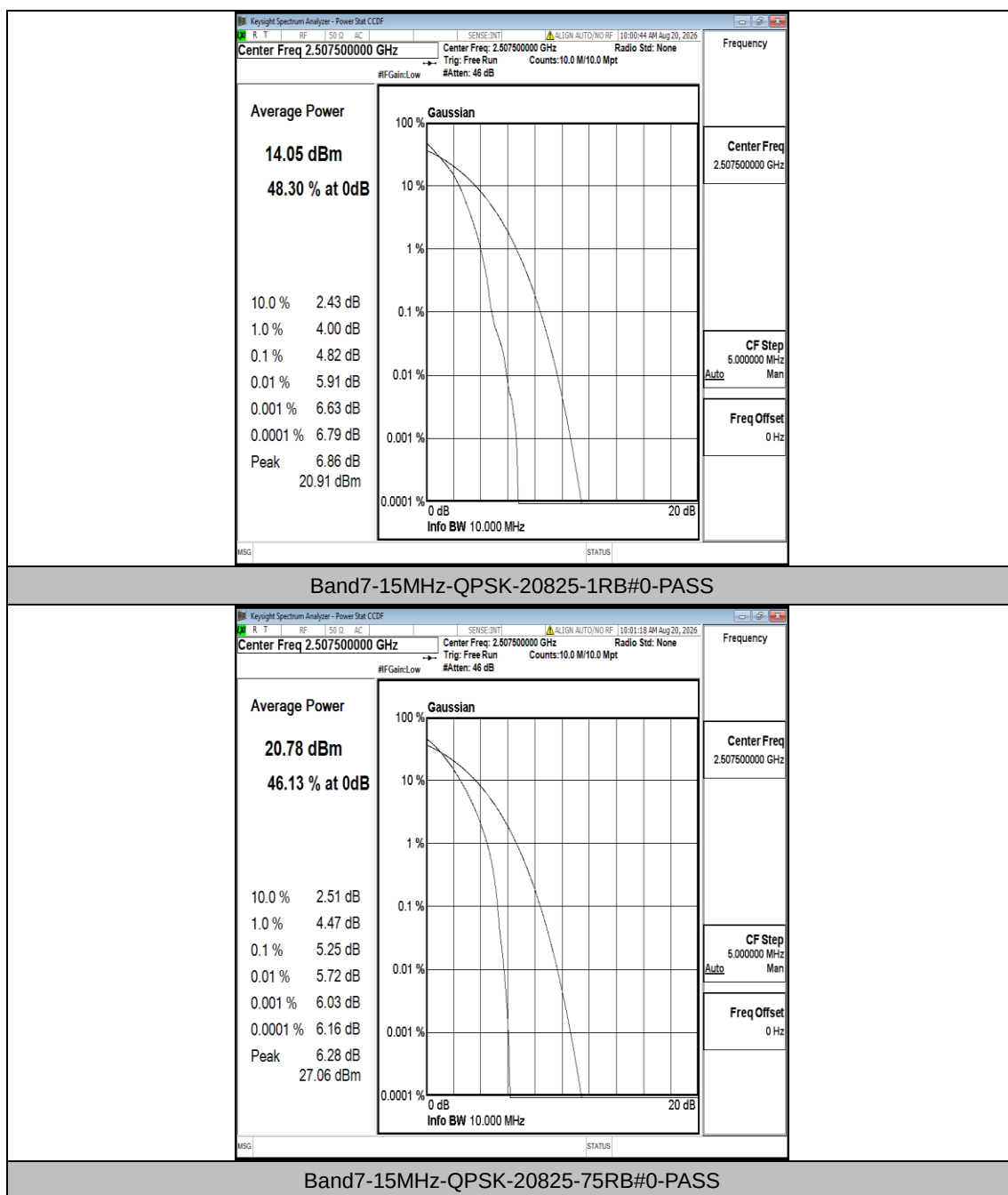


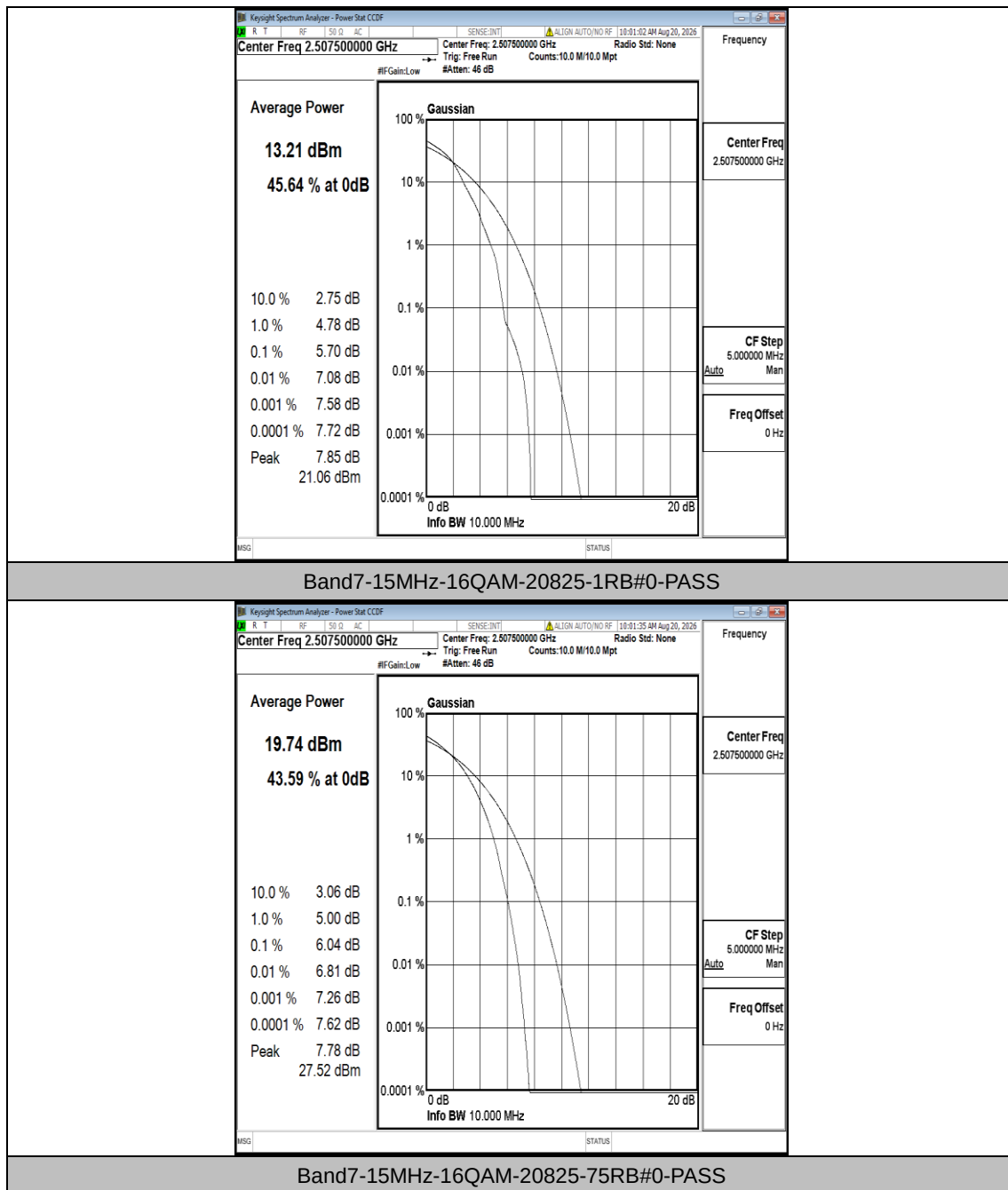


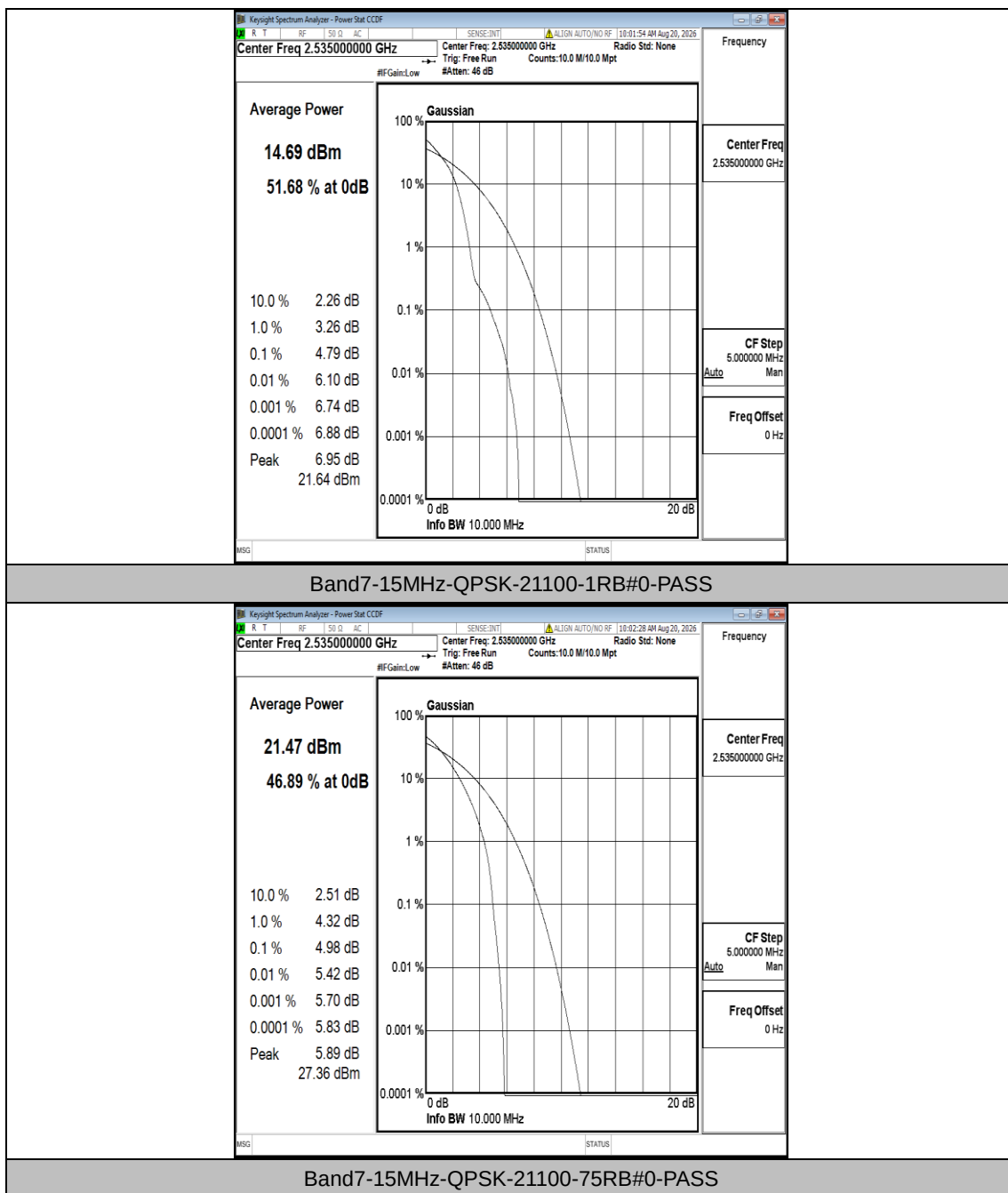


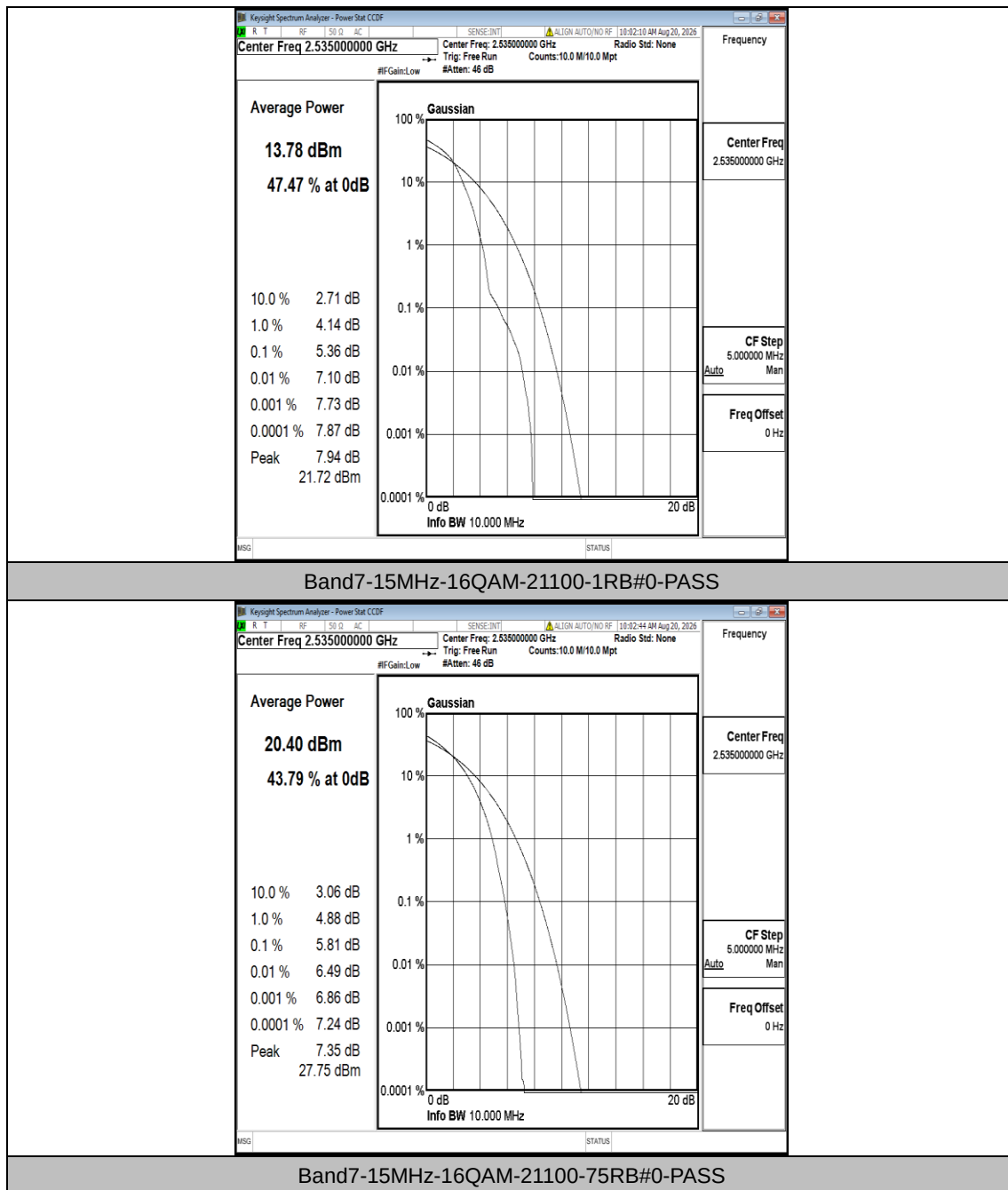


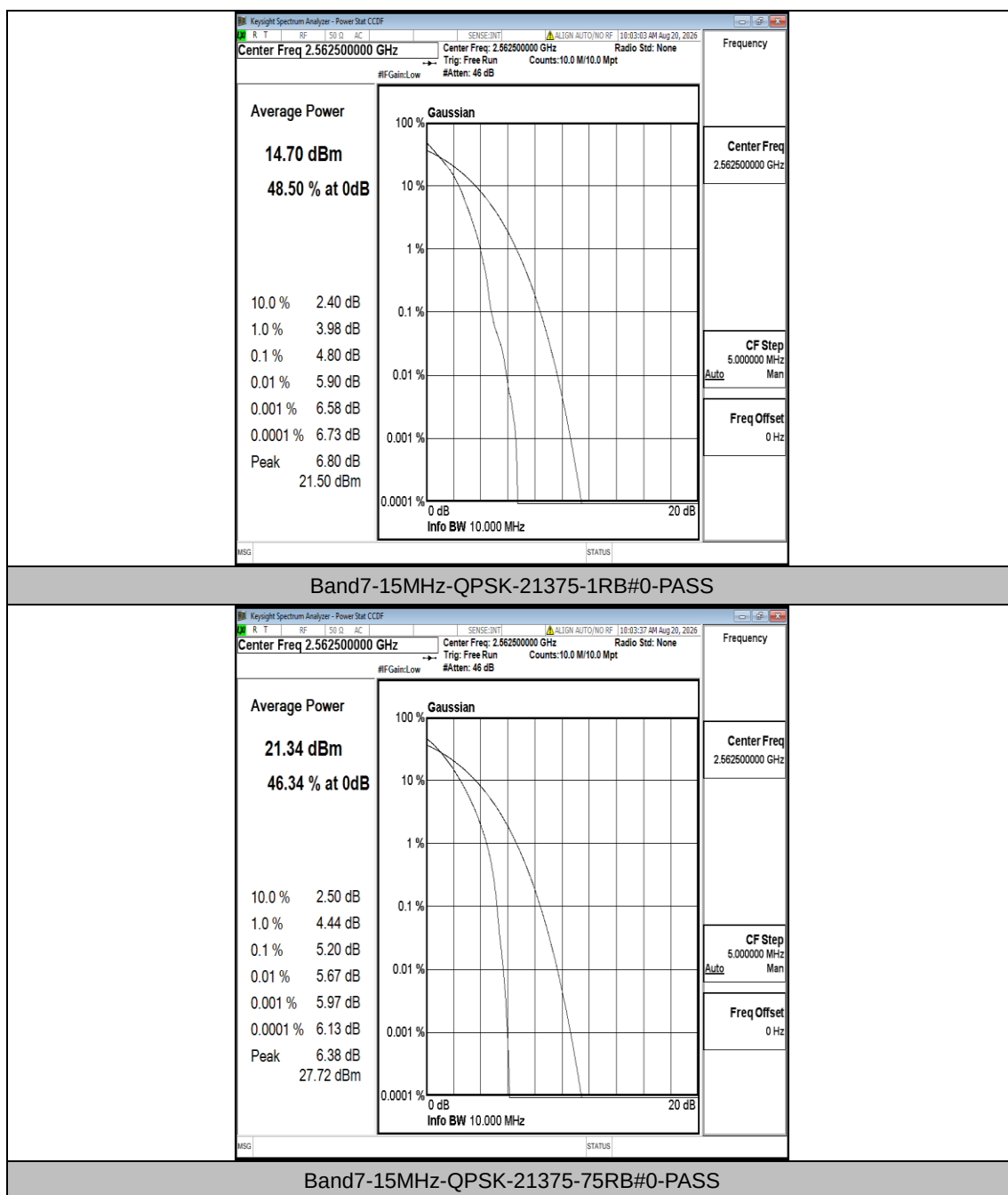


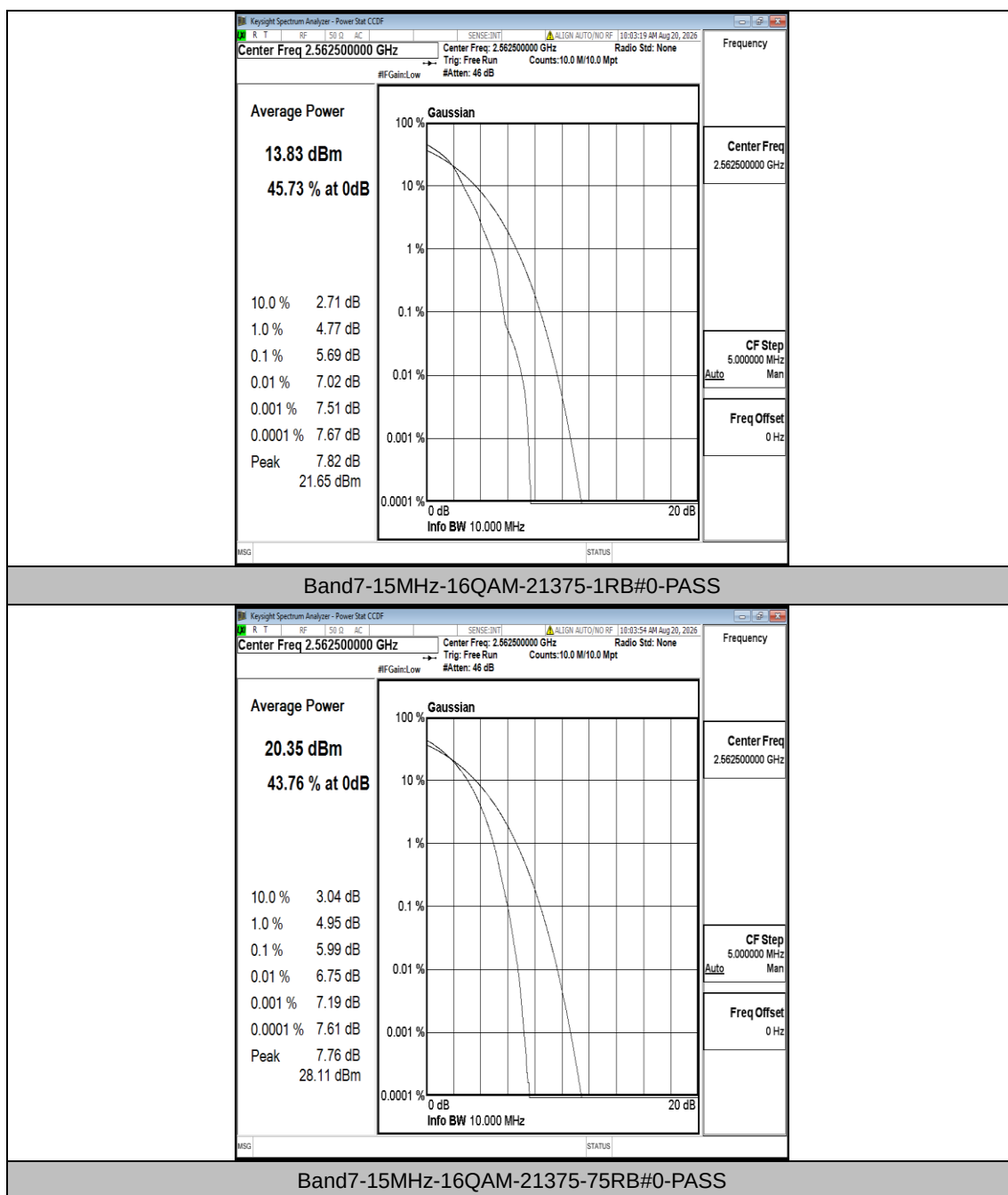


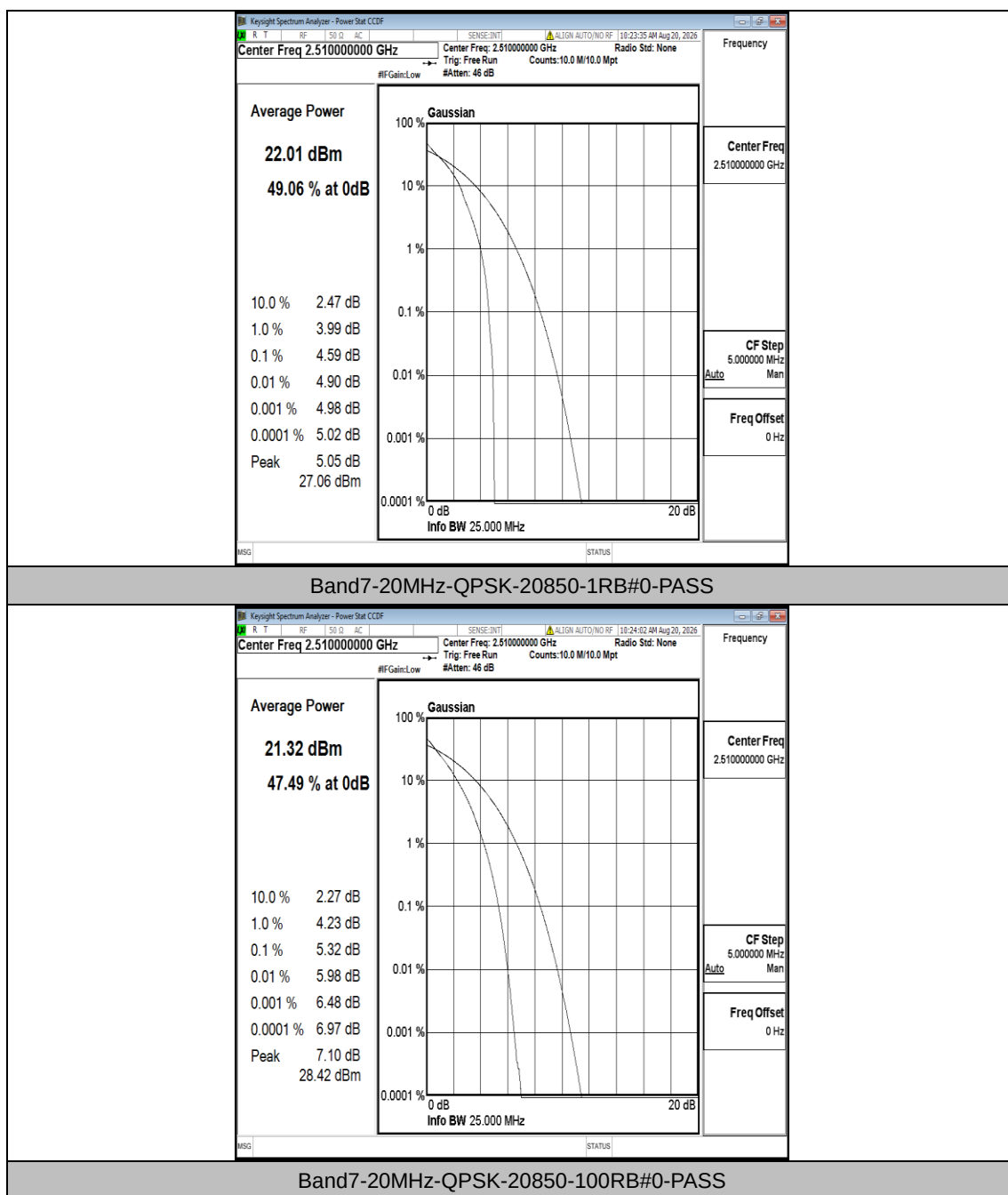


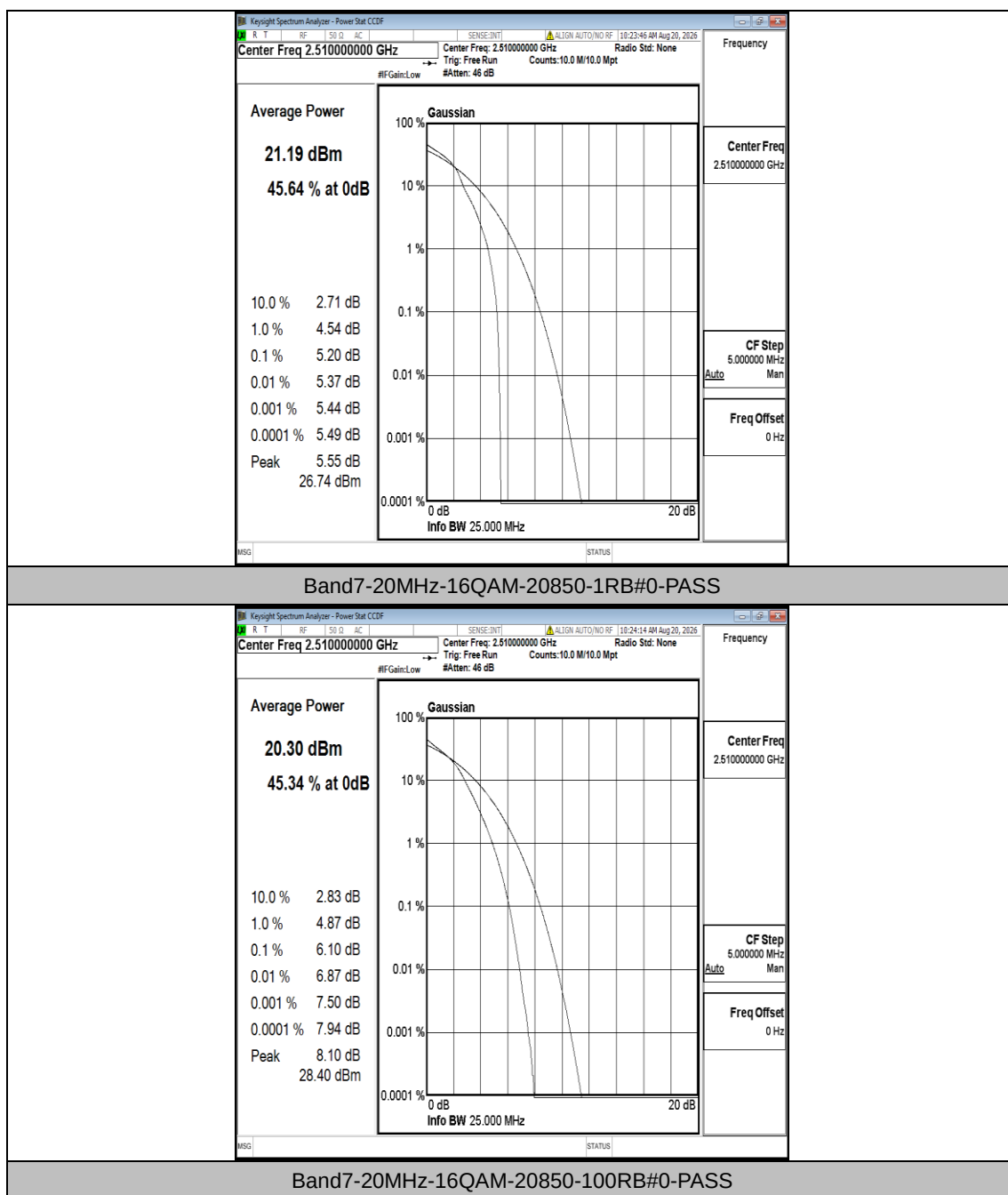


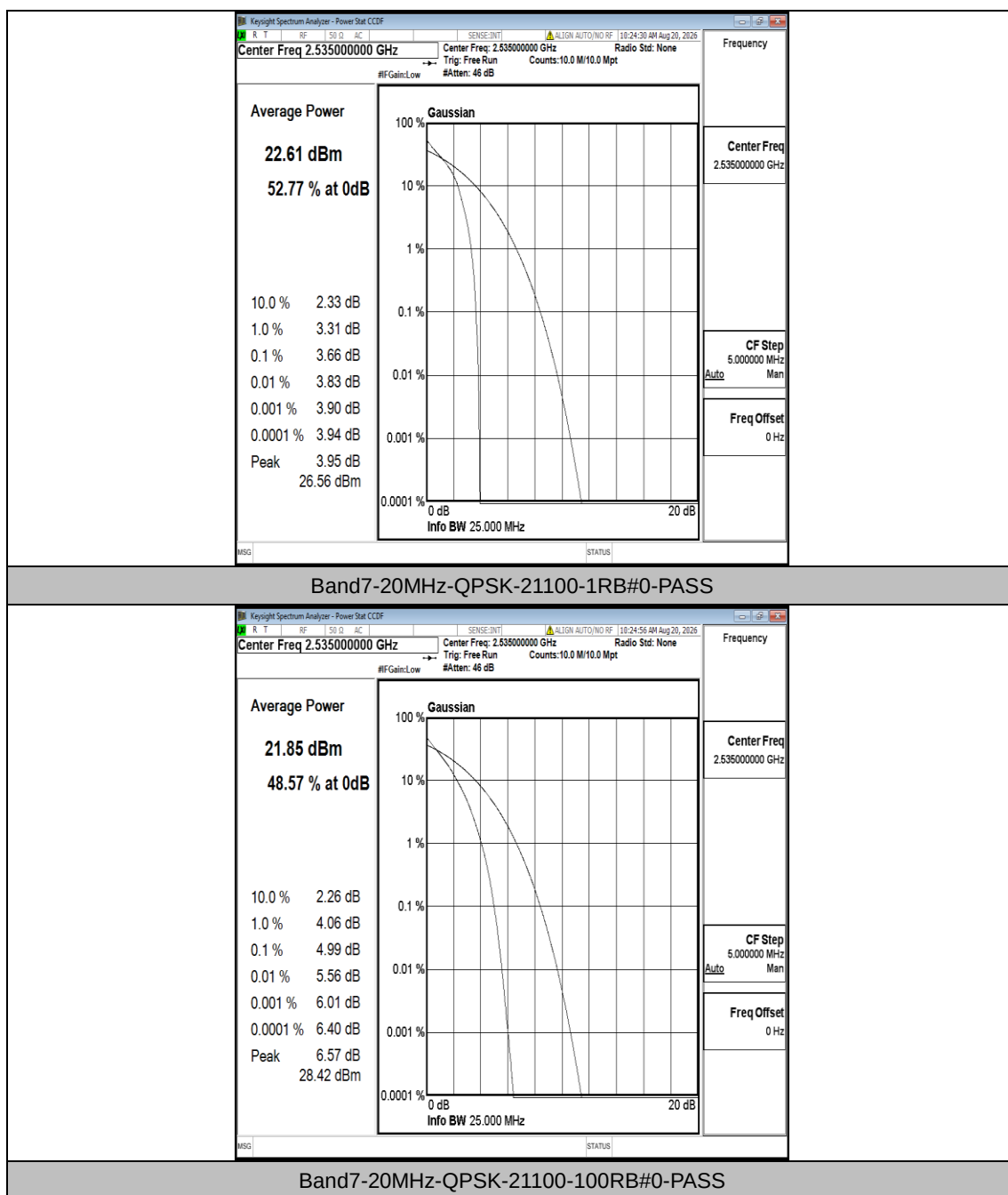


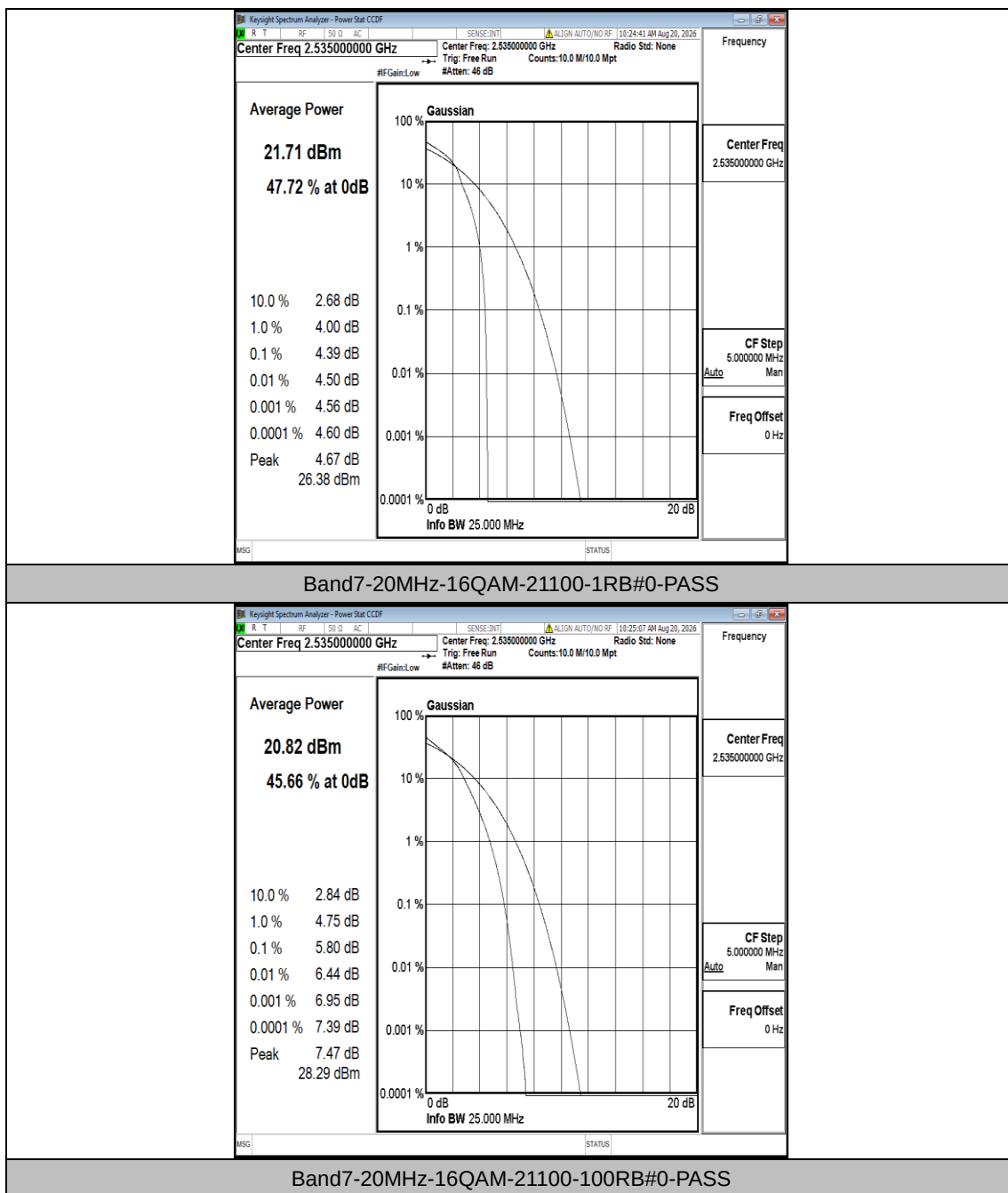


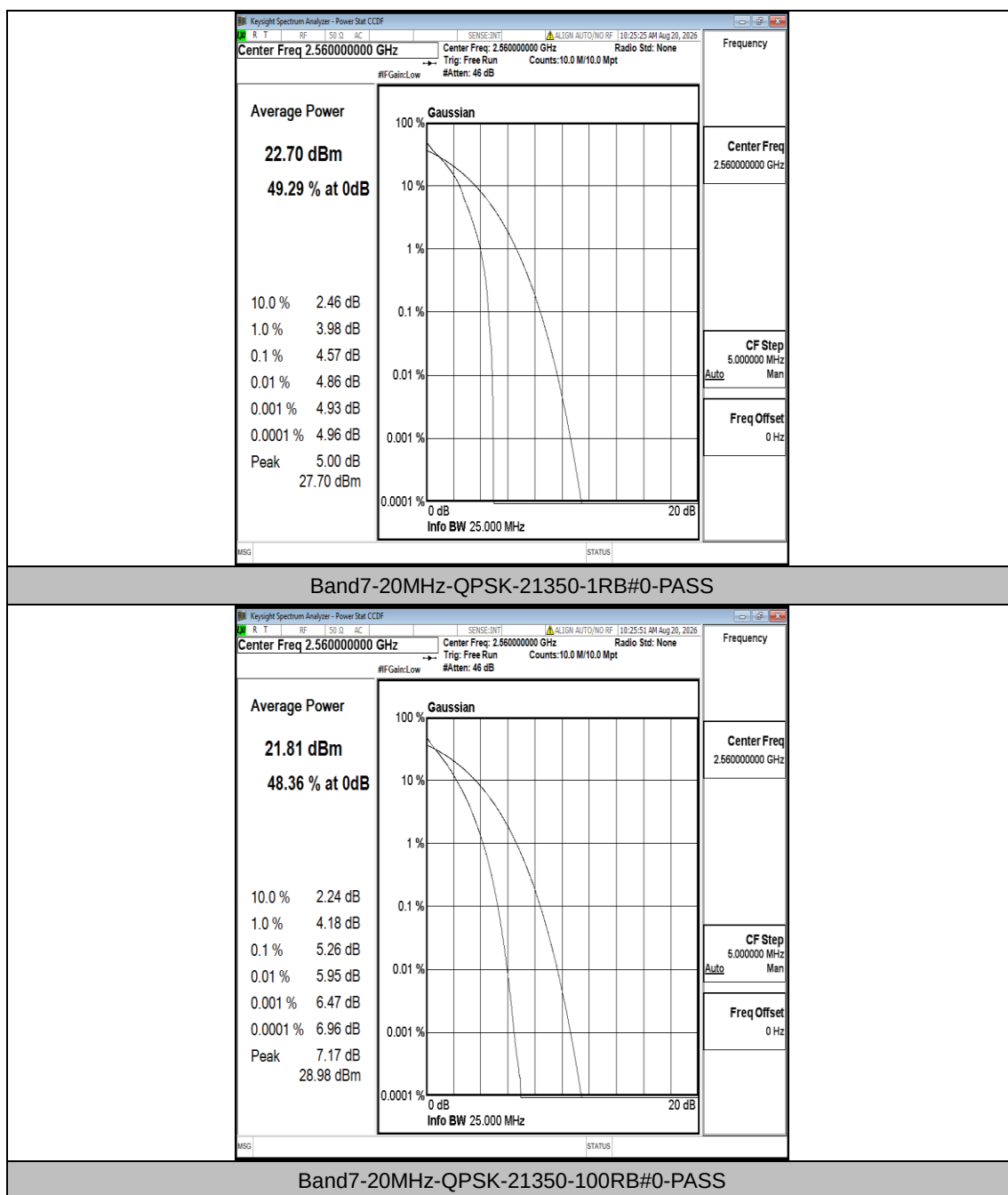


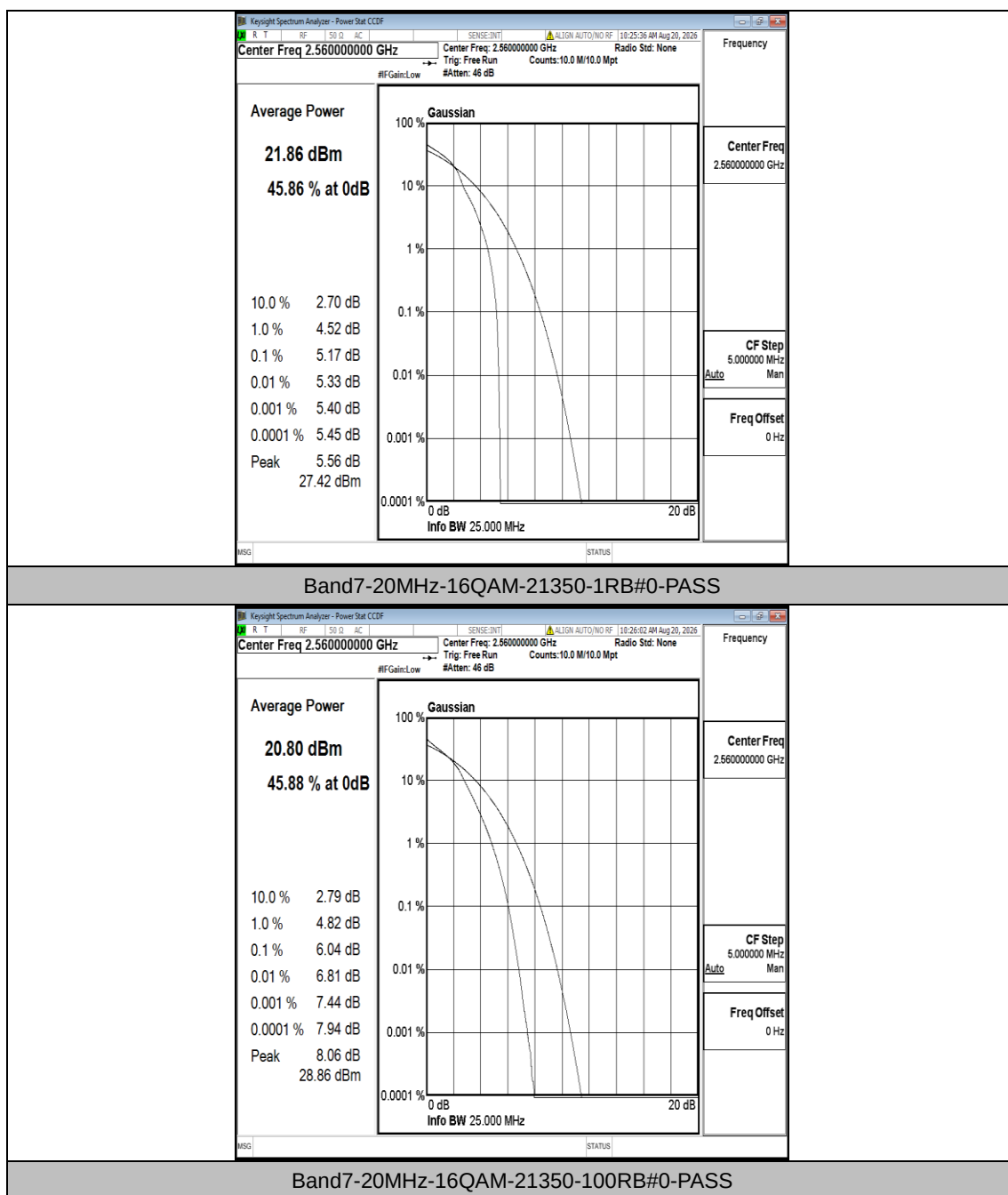










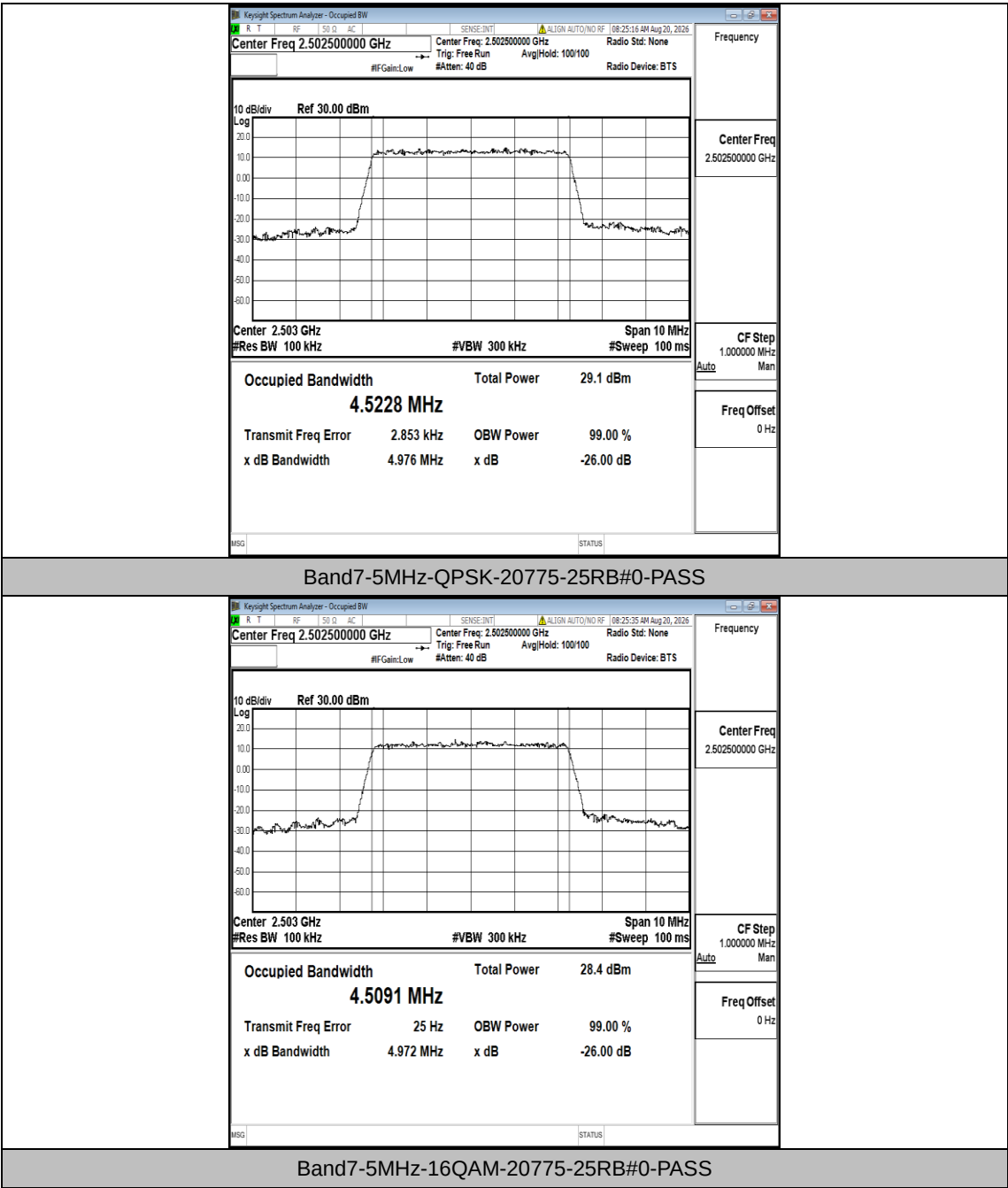


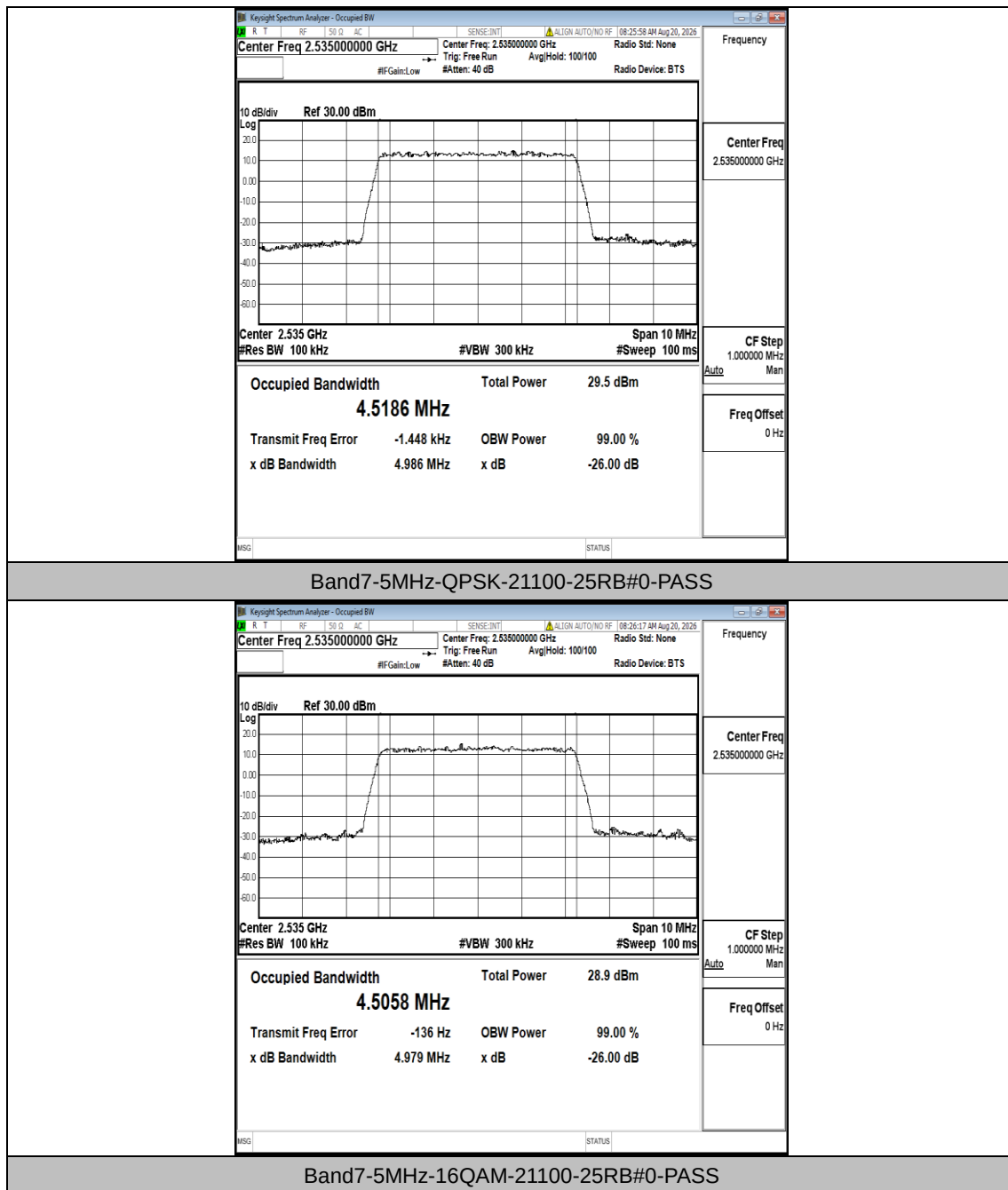
I.3 26dB Bandwidth and Occupied Bandwidth

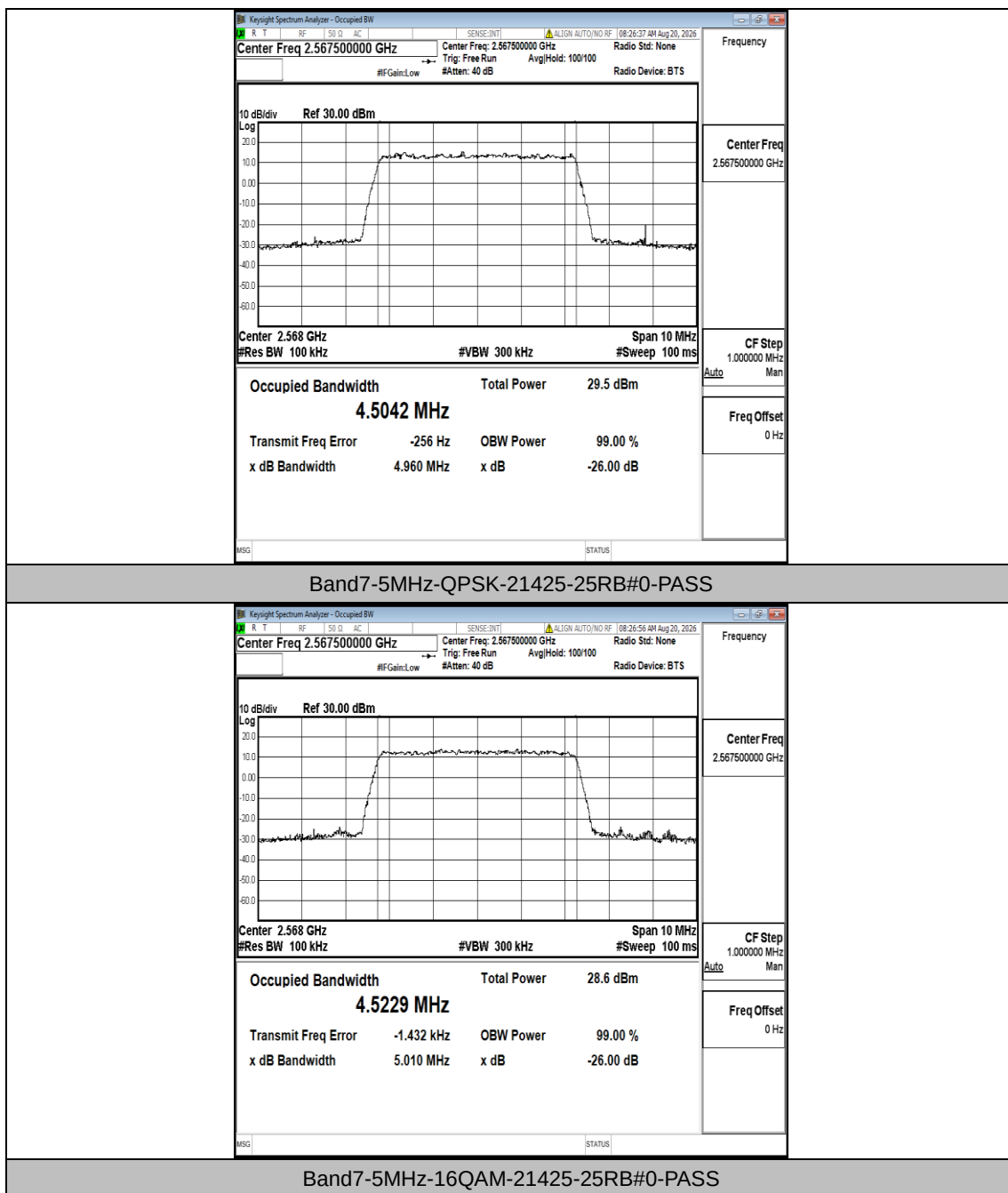
Test Result

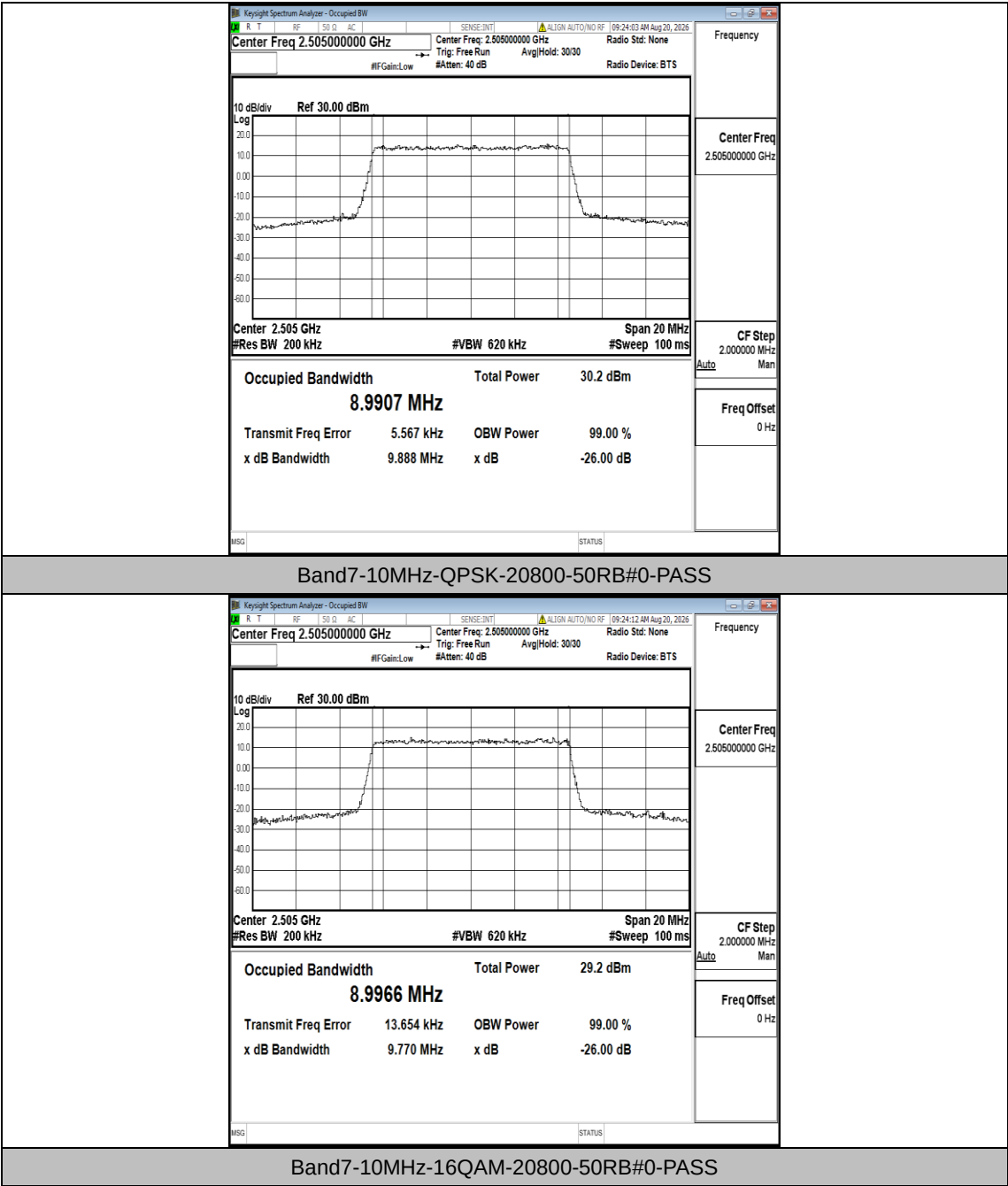
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5228	4.976	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5091	4.972	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5186	4.986	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5058	4.979	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5042	4.960	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5229	5.010	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9907	9.888	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9966	9.770	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9885	9.872	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9659	9.753	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9946	9.788	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9789	9.804	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.503	14.66	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.482	14.70	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.474	14.73	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.476	14.62	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.473	14.72	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.490	14.66	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.976	19.30	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.018	19.43	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.914	19.22	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.987	19.38	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.982	19.55	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.964	19.38	PASS

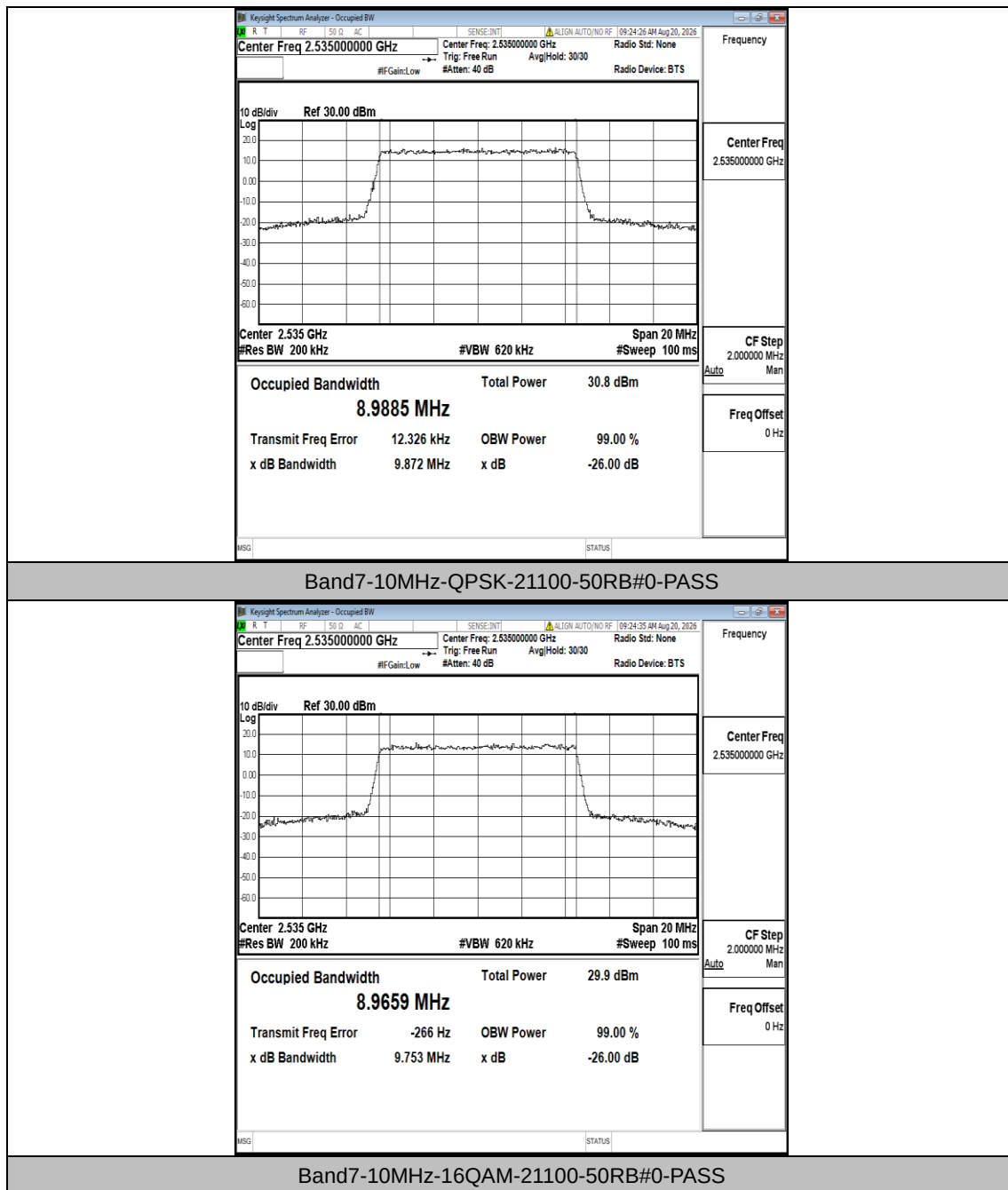
Test Graphs

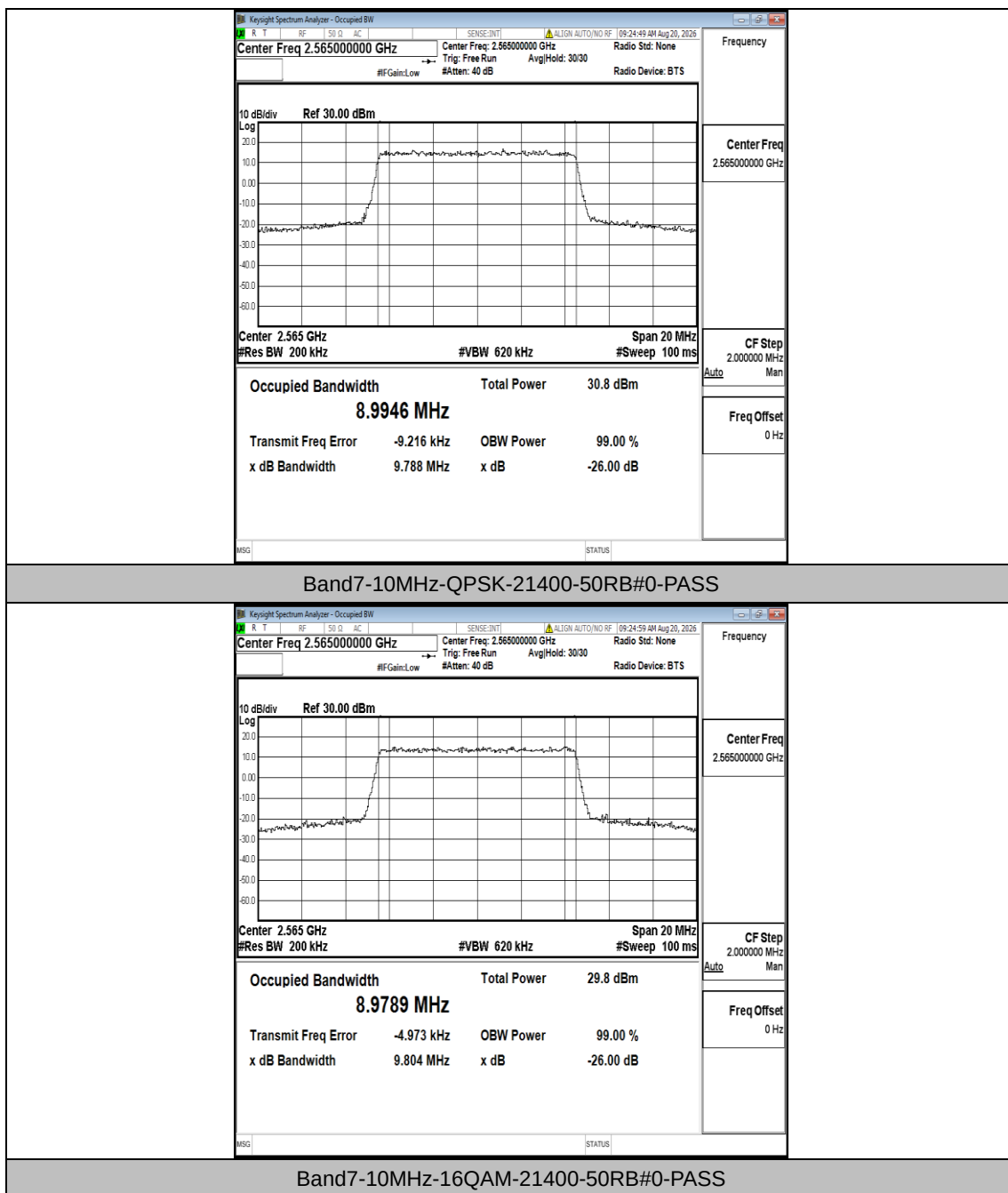


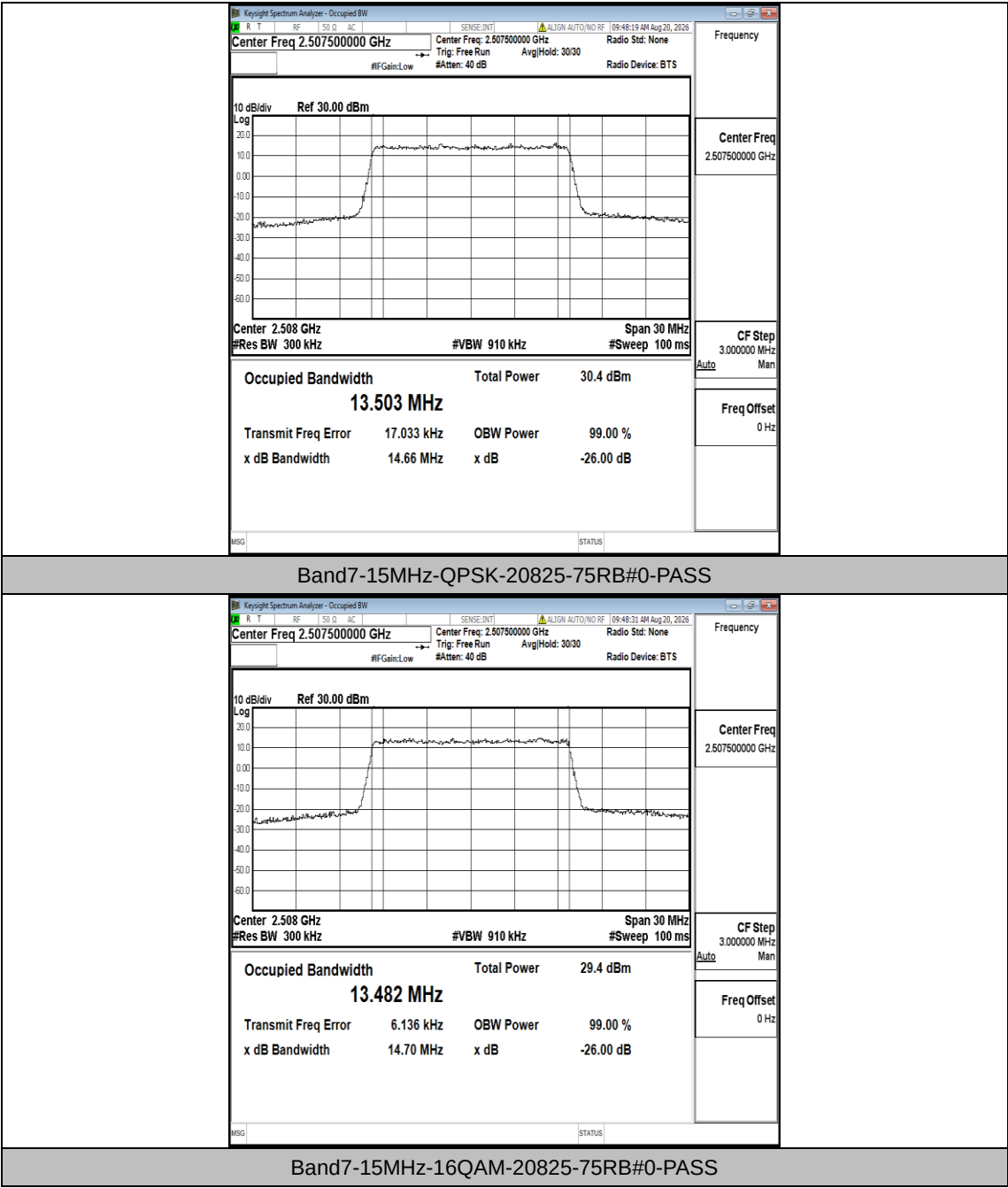


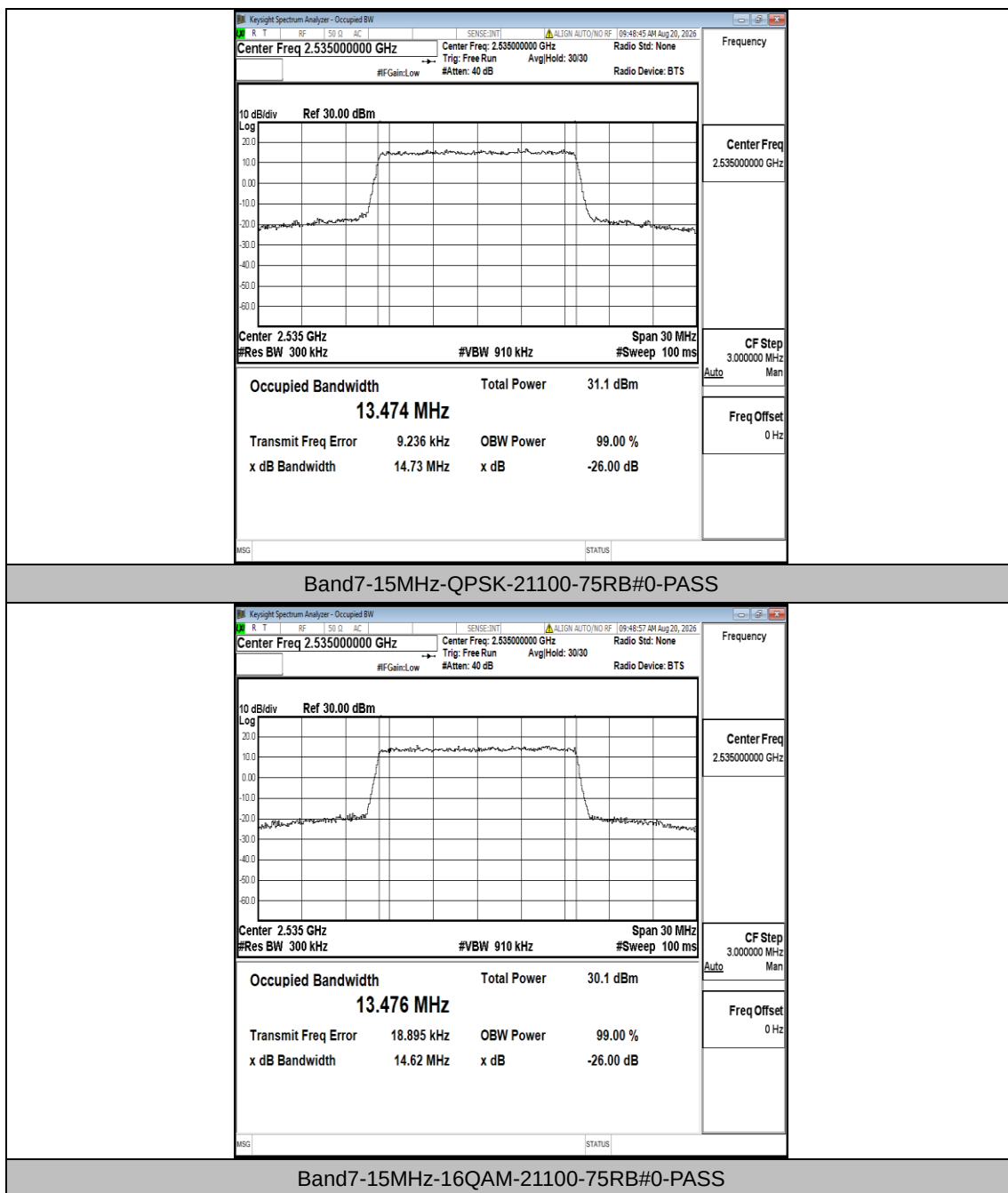


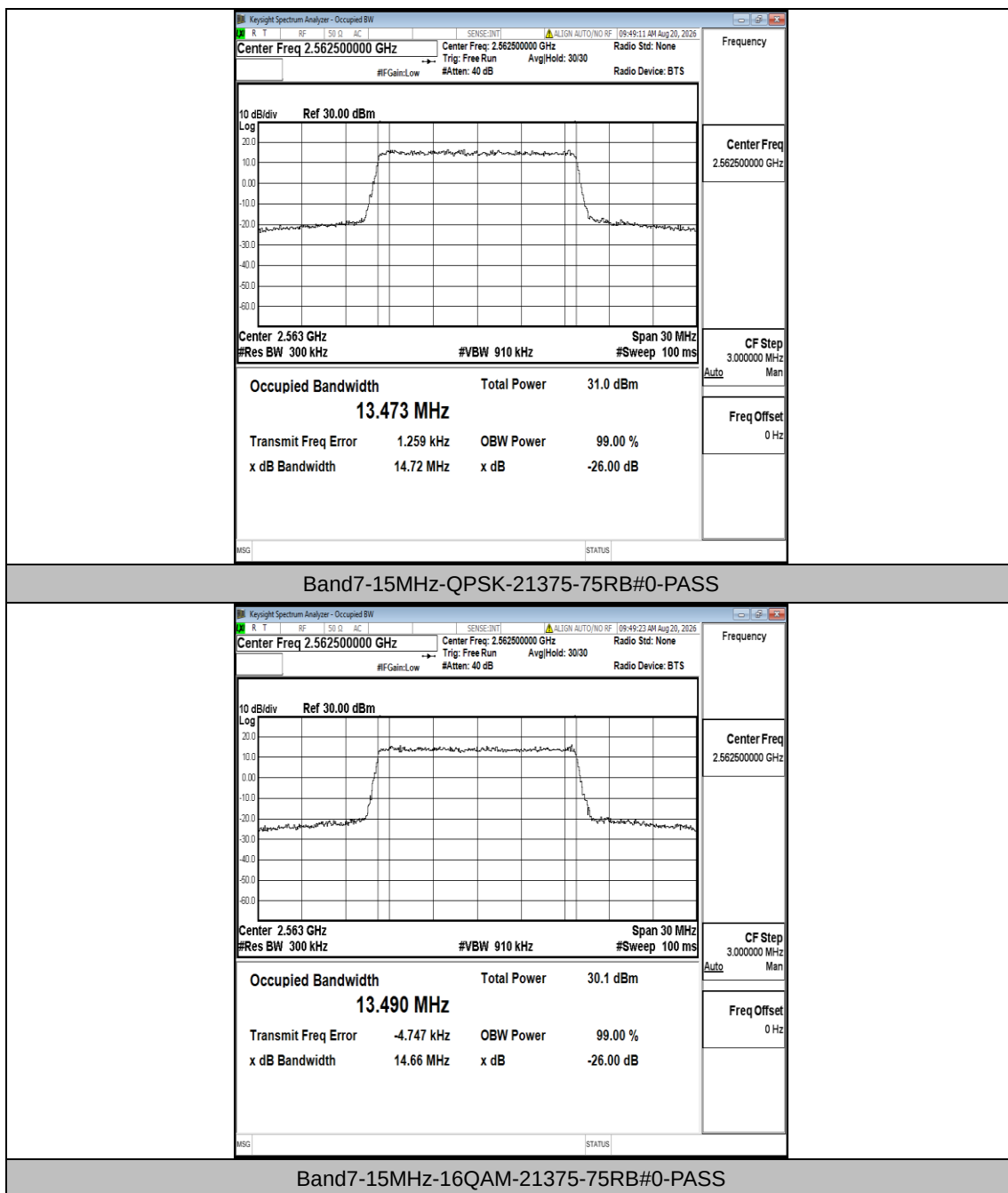


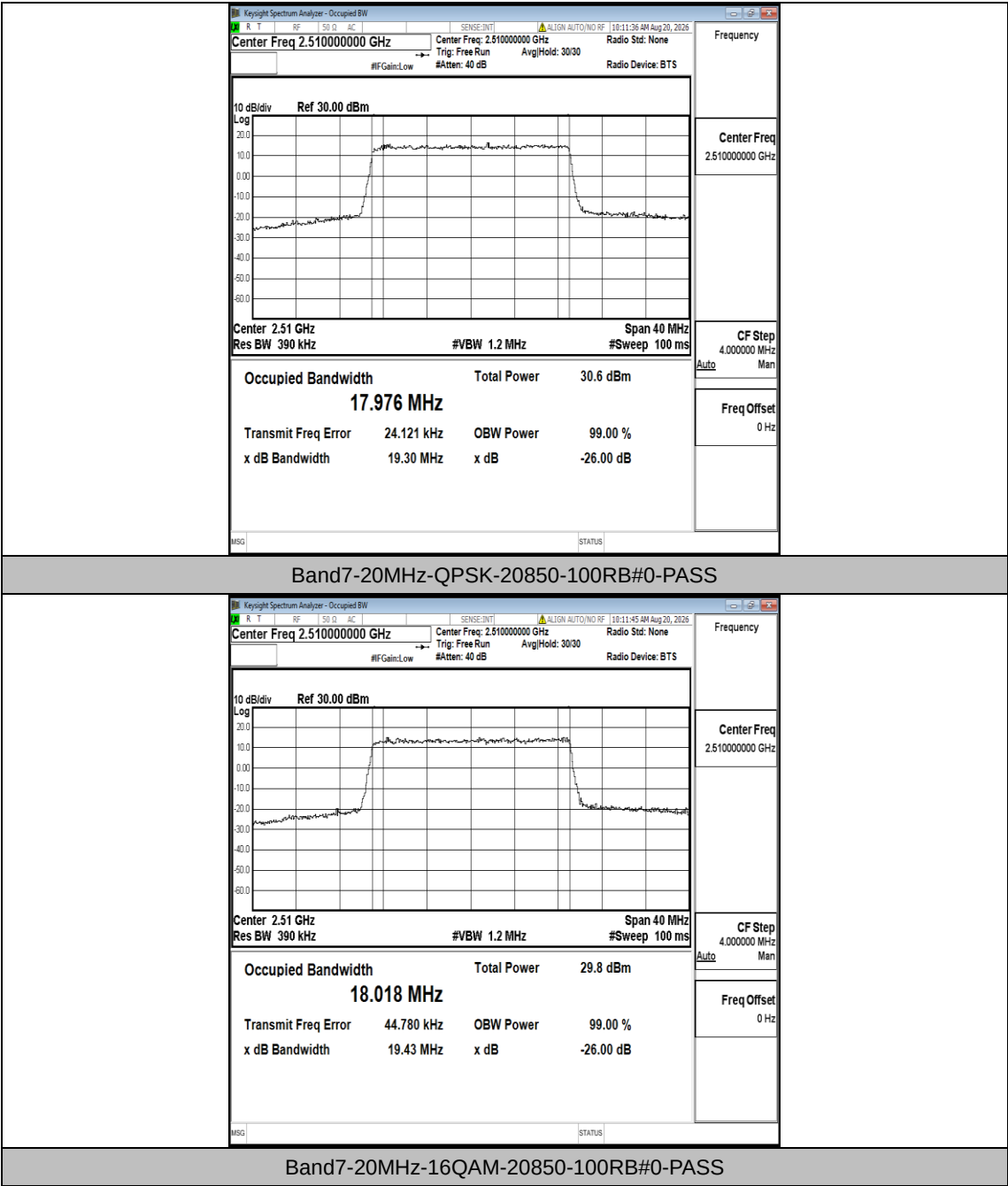


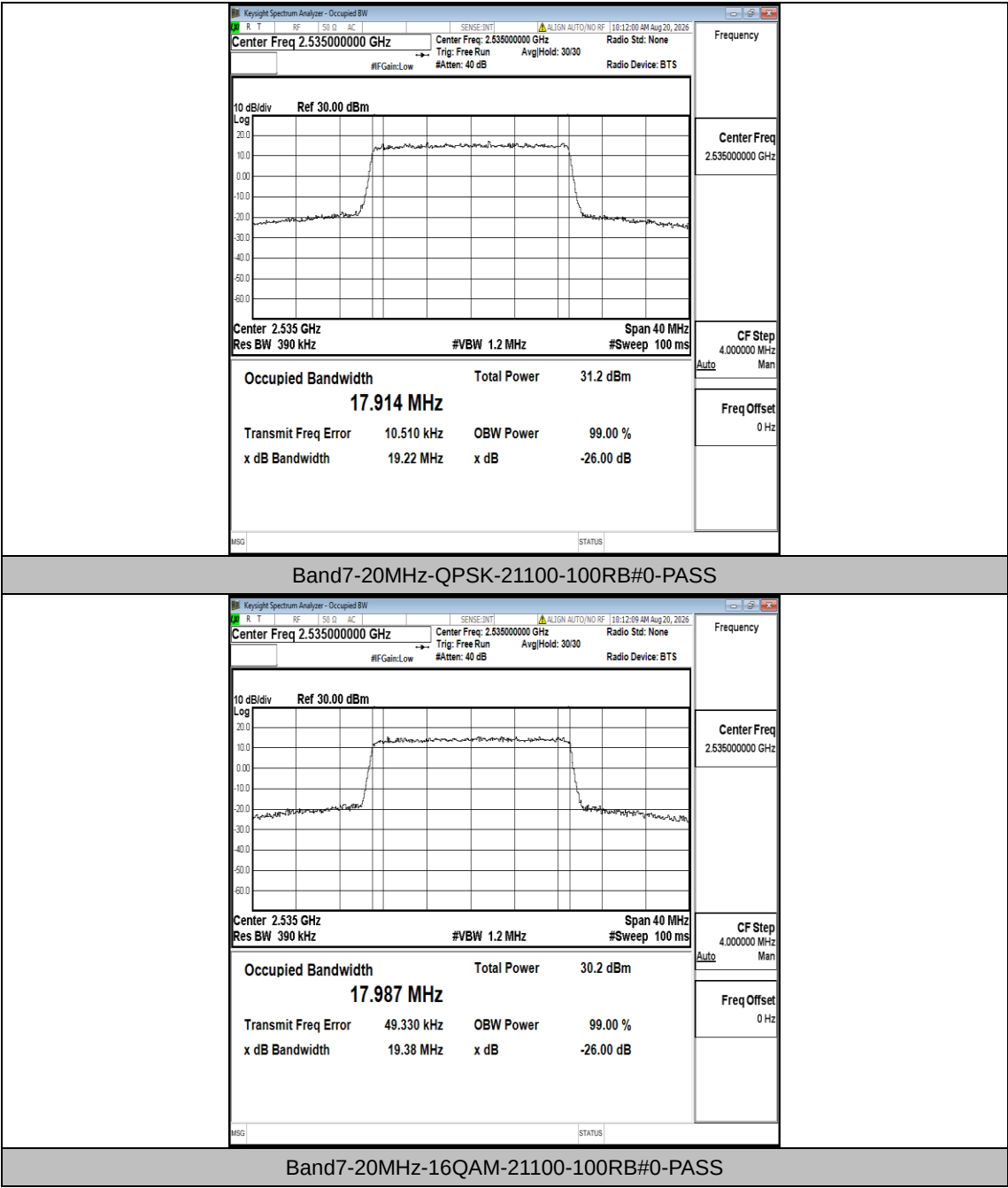


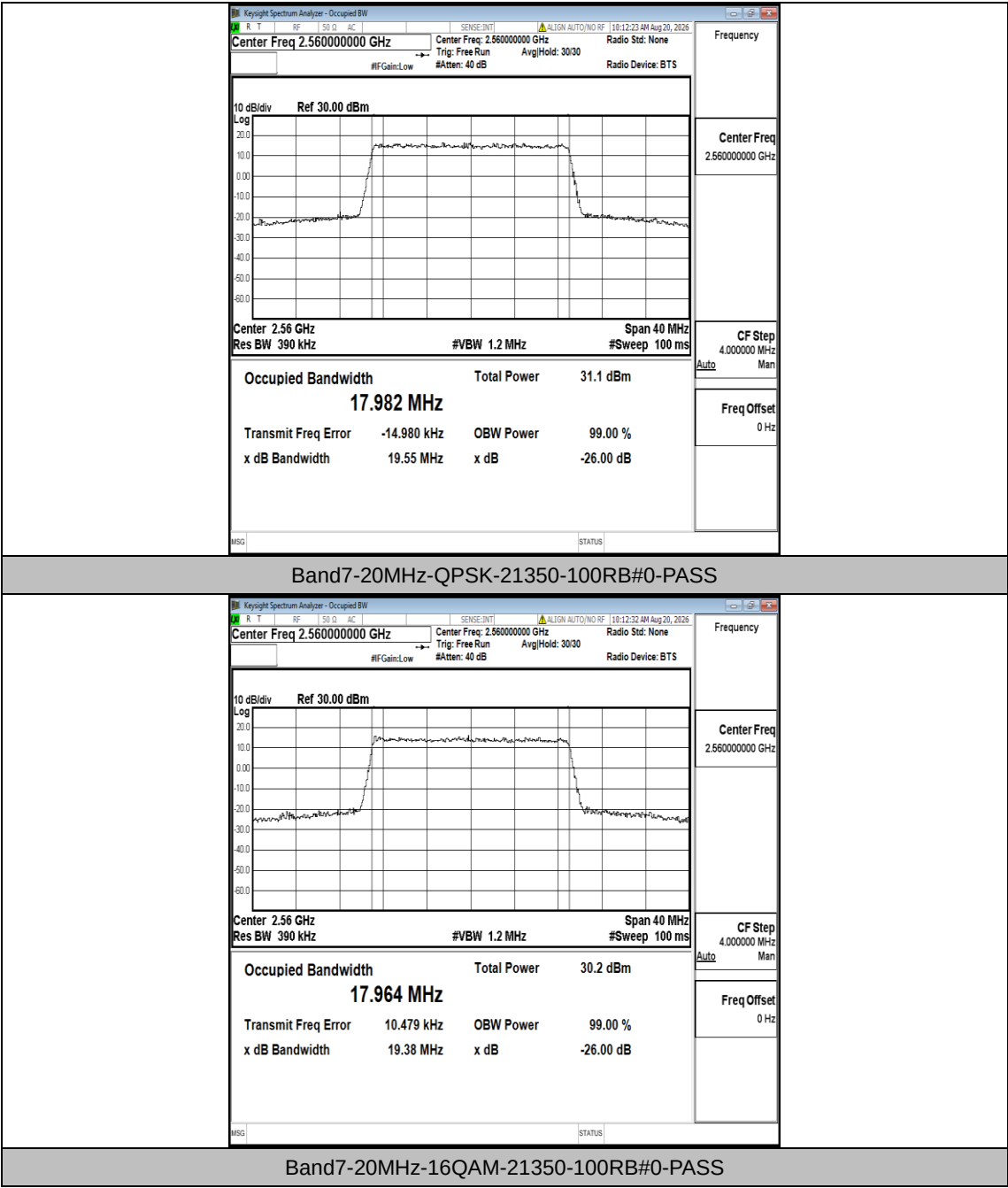












I.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	2499.00	-24.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	2490.00	-40.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	2576.00	-38.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	2579.00	-38.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	2488.00	-35.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	2489.00	-35.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	2571.00	-18.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	2580.00	-33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	2484.00	-34.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	2481.00	-34.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	2573.00	-18.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	2586.00	-34.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	2478.00	-34.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	2477.00	-33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	2576.00	-21.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	2576.00	-22.00	PASS

Test Graphs

