

Appendix H: Test Data for E-UTRA Band 5

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

H.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	25.11	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	25.13	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	25.13	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	25.10	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	25.30	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	25.28	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	24.22	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.78	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	24.61	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.70	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	23.85	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	24.05	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	23.97	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	23.75	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	25.34	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	25.37	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	25.34	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	25.41	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	25.34	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	25.41	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	24.42	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	24.20	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	24.56	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	24.28	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	24.34	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	24.37	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	24.33	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	23.59	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	25.32	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	25.35	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	25.28	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	25.41	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	25.25	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	25.30	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	24.29	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	24.68	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	25.44	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	24.63	PASS

Band5	1.4MHz	16QAM	20643	3RB#0	23.92	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	24.53	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	23.92	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	23.44	PASS
Band5	3MHz	QPSK	20415	1RB#0	25.37	PASS
Band5	3MHz	QPSK	20415	1RB#8	25.38	PASS
Band5	3MHz	QPSK	20415	1RB#14	25.30	PASS
Band5	3MHz	QPSK	20415	8RB#0	24.29	PASS
Band5	3MHz	QPSK	20415	8RB#4	24.31	PASS
Band5	3MHz	QPSK	20415	8RB#7	24.39	PASS
Band5	3MHz	QPSK	20415	15RB#0	24.28	PASS
Band5	3MHz	16QAM	20415	1RB#0	24.03	PASS
Band5	3MHz	16QAM	20415	1RB#8	24.84	PASS
Band5	3MHz	16QAM	20415	1RB#14	24.02	PASS
Band5	3MHz	16QAM	20415	8RB#0	23.91	PASS
Band5	3MHz	16QAM	20415	8RB#4	23.82	PASS
Band5	3MHz	16QAM	20415	8RB#7	23.63	PASS
Band5	3MHz	16QAM	20415	15RB#0	23.67	PASS
Band5	3MHz	QPSK	20525	1RB#0	25.42	PASS
Band5	3MHz	QPSK	20525	1RB#8	25.48	PASS
Band5	3MHz	QPSK	20525	1RB#14	25.41	PASS
Band5	3MHz	QPSK	20525	8RB#0	24.42	PASS
Band5	3MHz	QPSK	20525	8RB#4	24.27	PASS
Band5	3MHz	QPSK	20525	8RB#7	24.32	PASS
Band5	3MHz	QPSK	20525	15RB#0	24.33	PASS
Band5	3MHz	16QAM	20525	1RB#0	24.32	PASS
Band5	3MHz	16QAM	20525	1RB#8	24.55	PASS
Band5	3MHz	16QAM	20525	1RB#14	24.20	PASS
Band5	3MHz	16QAM	20525	8RB#0	23.44	PASS
Band5	3MHz	16QAM	20525	8RB#4	23.44	PASS
Band5	3MHz	16QAM	20525	8RB#7	23.41	PASS
Band5	3MHz	16QAM	20525	15RB#0	23.46	PASS
Band5	3MHz	QPSK	20635	1RB#0	25.27	PASS
Band5	3MHz	QPSK	20635	1RB#8	25.38	PASS
Band5	3MHz	QPSK	20635	1RB#14	25.27	PASS
Band5	3MHz	QPSK	20635	8RB#0	24.28	PASS
Band5	3MHz	QPSK	20635	8RB#4	24.37	PASS
Band5	3MHz	QPSK	20635	8RB#7	24.31	PASS
Band5	3MHz	QPSK	20635	15RB#0	24.24	PASS
Band5	3MHz	16QAM	20635	1RB#0	24.23	PASS
Band5	3MHz	16QAM	20635	1RB#8	25.39	PASS
Band5	3MHz	16QAM	20635	1RB#14	24.29	PASS
Band5	3MHz	16QAM	20635	8RB#0	23.33	PASS
Band5	3MHz	16QAM	20635	8RB#4	23.26	PASS

Band5	3MHz	16QAM	20635	8RB#7	23.31	PASS
Band5	3MHz	16QAM	20635	15RB#0	23.36	PASS
Band5	5MHz	QPSK	20425	1RB#0	25.31	PASS
Band5	5MHz	QPSK	20425	1RB#12	25.23	PASS
Band5	5MHz	QPSK	20425	1RB#24	25.28	PASS
Band5	5MHz	QPSK	20425	12RB#0	24.40	PASS
Band5	5MHz	QPSK	20425	12RB#6	24.50	PASS
Band5	5MHz	QPSK	20425	12RB#13	24.37	PASS
Band5	5MHz	QPSK	20425	25RB#0	24.48	PASS
Band5	5MHz	16QAM	20425	1RB#0	24.50	PASS
Band5	5MHz	16QAM	20425	1RB#12	24.99	PASS
Band5	5MHz	16QAM	20425	1RB#24	24.66	PASS
Band5	5MHz	16QAM	20425	12RB#0	23.84	PASS
Band5	5MHz	16QAM	20425	12RB#6	23.51	PASS
Band5	5MHz	16QAM	20425	12RB#13	23.66	PASS
Band5	5MHz	16QAM	20425	25RB#0	23.63	PASS
Band5	5MHz	QPSK	20525	1RB#0	25.60	PASS
Band5	5MHz	QPSK	20525	1RB#12	25.56	PASS
Band5	5MHz	QPSK	20525	1RB#24	25.49	PASS
Band5	5MHz	QPSK	20525	12RB#0	24.41	PASS
Band5	5MHz	QPSK	20525	12RB#6	24.43	PASS
Band5	5MHz	QPSK	20525	12RB#13	24.42	PASS
Band5	5MHz	QPSK	20525	25RB#0	24.38	PASS
Band5	5MHz	16QAM	20525	1RB#0	24.22	PASS
Band5	5MHz	16QAM	20525	1RB#12	24.44	PASS
Band5	5MHz	16QAM	20525	1RB#24	24.22	PASS
Band5	5MHz	16QAM	20525	12RB#0	23.36	PASS
Band5	5MHz	16QAM	20525	12RB#6	23.39	PASS
Band5	5MHz	16QAM	20525	12RB#13	23.34	PASS
Band5	5MHz	16QAM	20525	25RB#0	23.42	PASS
Band5	5MHz	QPSK	20625	1RB#0	25.34	PASS
Band5	5MHz	QPSK	20625	1RB#12	25.35	PASS
Band5	5MHz	QPSK	20625	1RB#24	25.21	PASS
Band5	5MHz	QPSK	20625	12RB#0	24.29	PASS
Band5	5MHz	QPSK	20625	12RB#6	24.34	PASS
Band5	5MHz	QPSK	20625	12RB#13	24.36	PASS
Band5	5MHz	QPSK	20625	25RB#0	24.25	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.80	PASS
Band5	5MHz	16QAM	20625	1RB#12	24.28	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.73	PASS
Band5	5MHz	16QAM	20625	12RB#0	23.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	23.38	PASS
Band5	5MHz	16QAM	20625	12RB#13	23.32	PASS
Band5	5MHz	16QAM	20625	25RB#0	23.44	PASS

Band5	10MHz	QPSK	20450	1RB#0	25.27	PASS
Band5	10MHz	QPSK	20450	1RB#24	25.28	PASS
Band5	10MHz	QPSK	20450	1RB#49	25.16	PASS
Band5	10MHz	QPSK	20450	25RB#0	24.47	PASS
Band5	10MHz	QPSK	20450	25RB#12	24.38	PASS
Band5	10MHz	QPSK	20450	25RB#25	24.47	PASS
Band5	10MHz	QPSK	20450	50RB#0	24.36	PASS
Band5	10MHz	16QAM	20450	1RB#0	24.39	PASS
Band5	10MHz	16QAM	20450	1RB#24	25.28	PASS
Band5	10MHz	16QAM	20450	1RB#49	24.28	PASS
Band5	10MHz	16QAM	20450	25RB#0	23.68	PASS
Band5	10MHz	16QAM	20450	25RB#12	23.64	PASS
Band5	10MHz	16QAM	20450	25RB#25	23.58	PASS
Band5	10MHz	16QAM	20450	50RB#0	23.58	PASS
Band5	10MHz	QPSK	20525	1RB#0	25.40	PASS
Band5	10MHz	QPSK	20525	1RB#24	25.29	PASS
Band5	10MHz	QPSK	20525	1RB#49	25.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	24.46	PASS
Band5	10MHz	QPSK	20525	25RB#12	24.31	PASS
Band5	10MHz	QPSK	20525	25RB#25	24.38	PASS
Band5	10MHz	QPSK	20525	50RB#0	24.44	PASS
Band5	10MHz	16QAM	20525	1RB#0	24.84	PASS
Band5	10MHz	16QAM	20525	1RB#24	25.26	PASS
Band5	10MHz	16QAM	20525	1RB#49	24.85	PASS
Band5	10MHz	16QAM	20525	25RB#0	23.48	PASS
Band5	10MHz	16QAM	20525	25RB#12	23.52	PASS
Band5	10MHz	16QAM	20525	25RB#25	23.51	PASS
Band5	10MHz	16QAM	20525	50RB#0	23.52	PASS
Band5	10MHz	QPSK	20600	1RB#0	25.32	PASS
Band5	10MHz	QPSK	20600	1RB#24	25.28	PASS
Band5	10MHz	QPSK	20600	1RB#49	25.24	PASS
Band5	10MHz	QPSK	20600	25RB#0	24.44	PASS
Band5	10MHz	QPSK	20600	25RB#12	24.24	PASS
Band5	10MHz	QPSK	20600	25RB#25	24.32	PASS
Band5	10MHz	QPSK	20600	50RB#0	24.42	PASS
Band5	10MHz	16QAM	20600	1RB#0	24.46	PASS
Band5	10MHz	16QAM	20600	1RB#24	25.35	PASS
Band5	10MHz	16QAM	20600	1RB#49	24.33	PASS
Band5	10MHz	16QAM	20600	25RB#0	23.42	PASS
Band5	10MHz	16QAM	20600	25RB#12	23.22	PASS
Band5	10MHz	16QAM	20600	25RB#25	23.29	PASS
Band5	10MHz	16QAM	20600	50RB#0	23.39	PASS

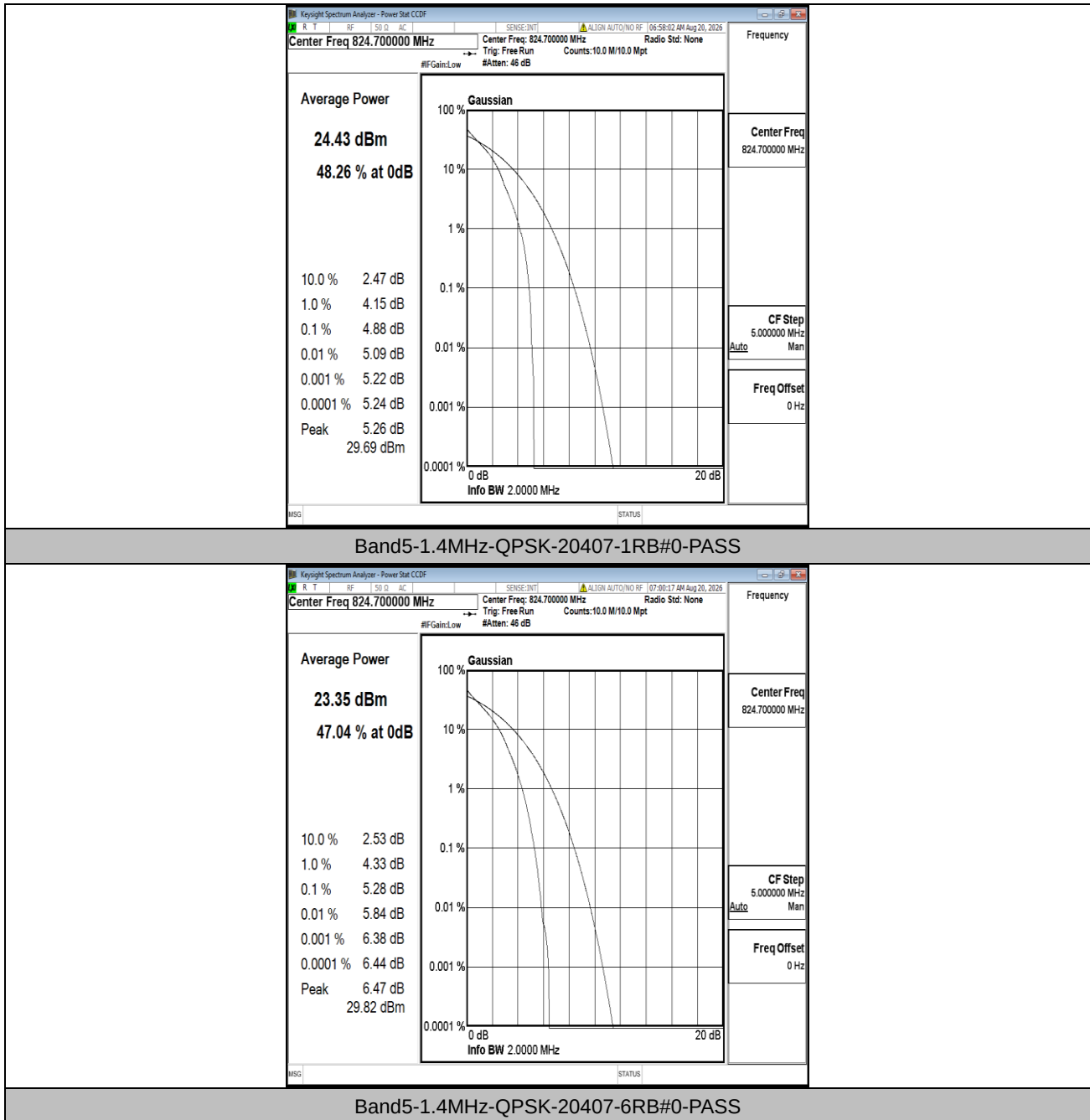
H.2 Peak-to-Average Ratio(CCDF)

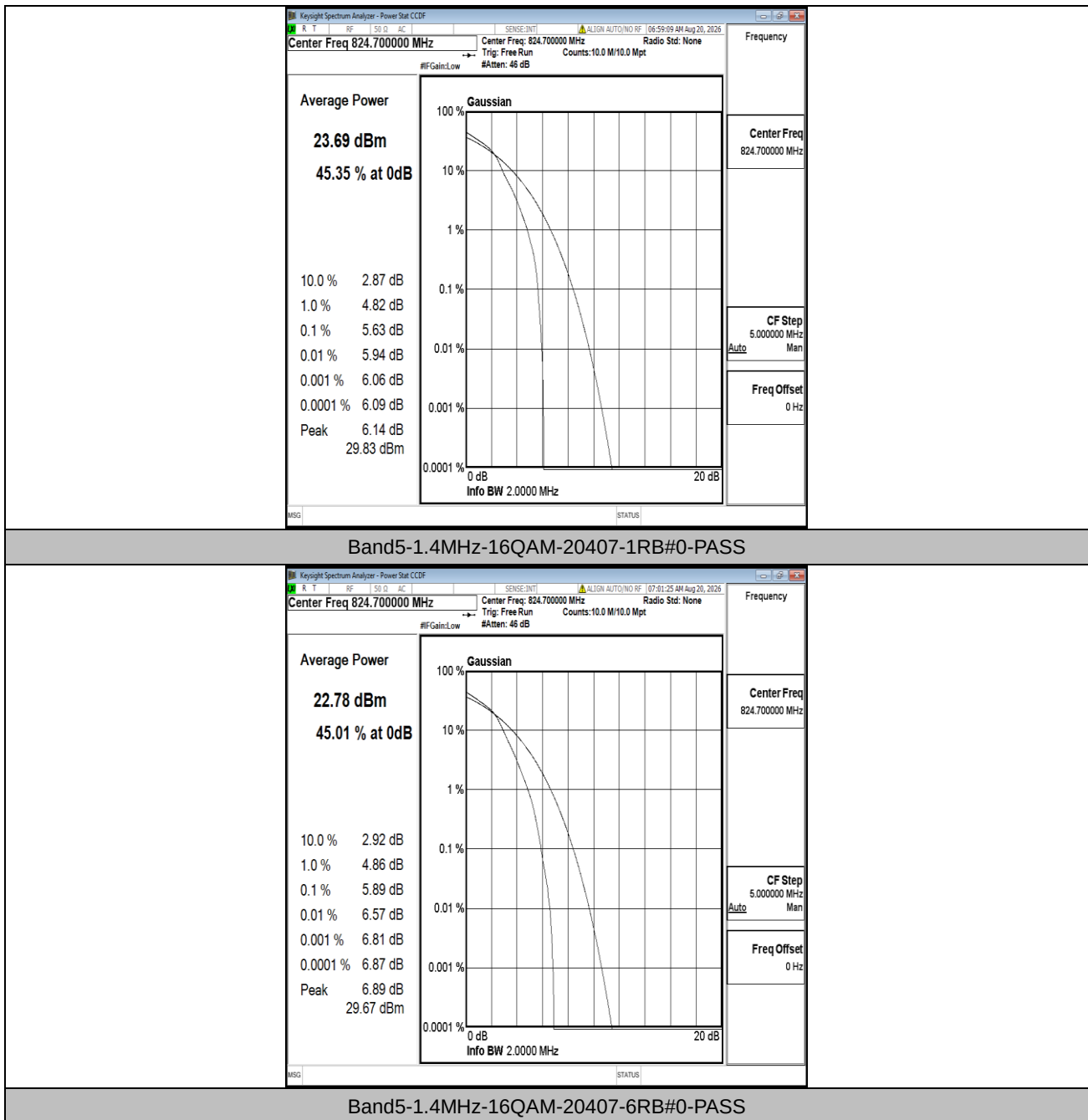
Test Result

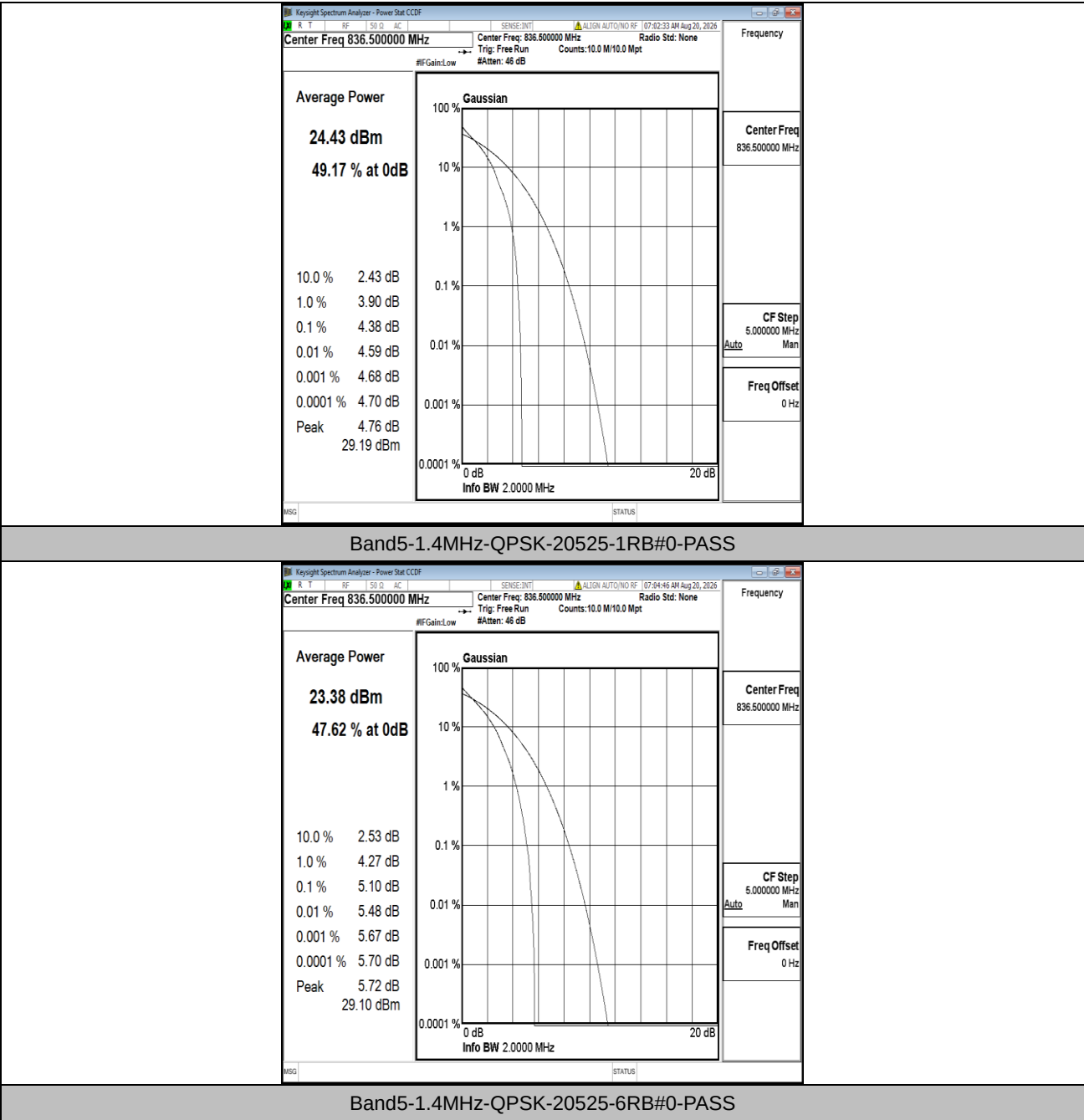
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.88	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.28	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.63	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.89	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.38	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.10	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.41	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.79	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.32	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.95	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.04	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.73	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.79	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.37	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.83	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.05	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.47	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.15	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.44	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.94	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.51	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.03	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.34	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.90	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.89	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.48	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.84	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.13	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.66	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.27	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.31	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.00	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.60	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.35	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.42	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.05	13	PASS

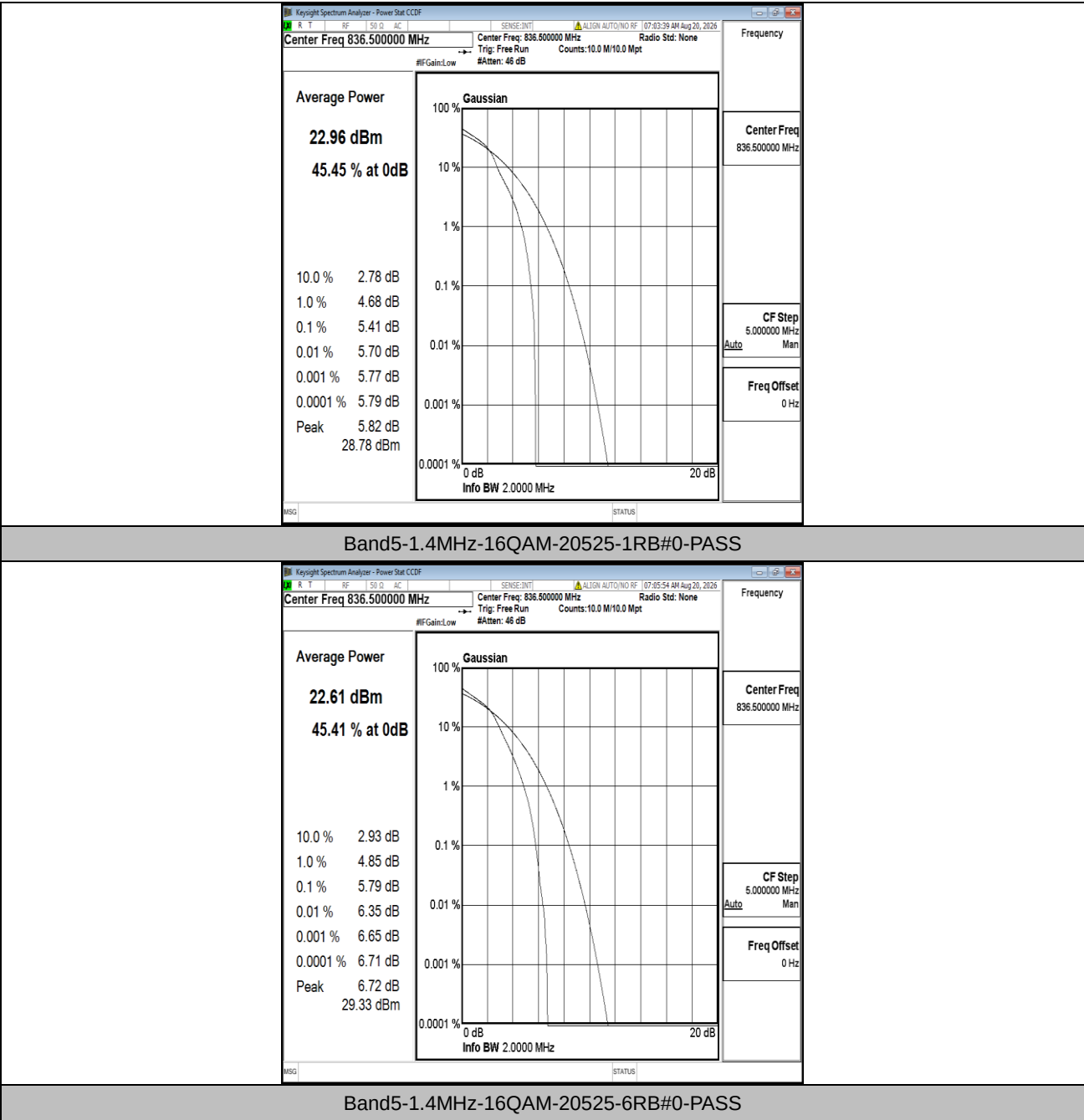
Band5	10MHz	QPSK	20450	1RB#0	4.79	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.52	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.72	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.20	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.69	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.40	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.44	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.10	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.60	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.41	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.22	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.14	13	PASS

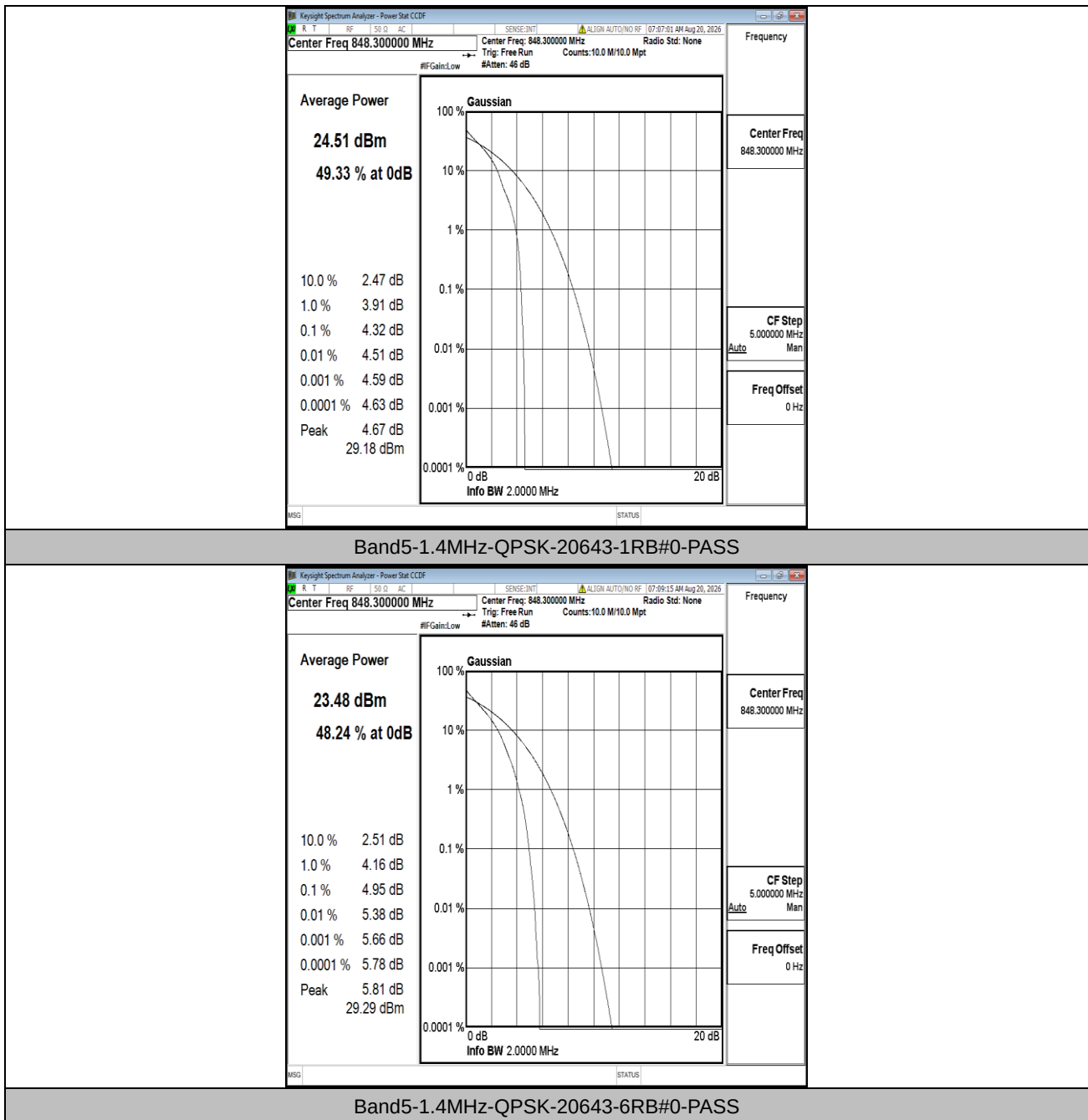
Test Graphs

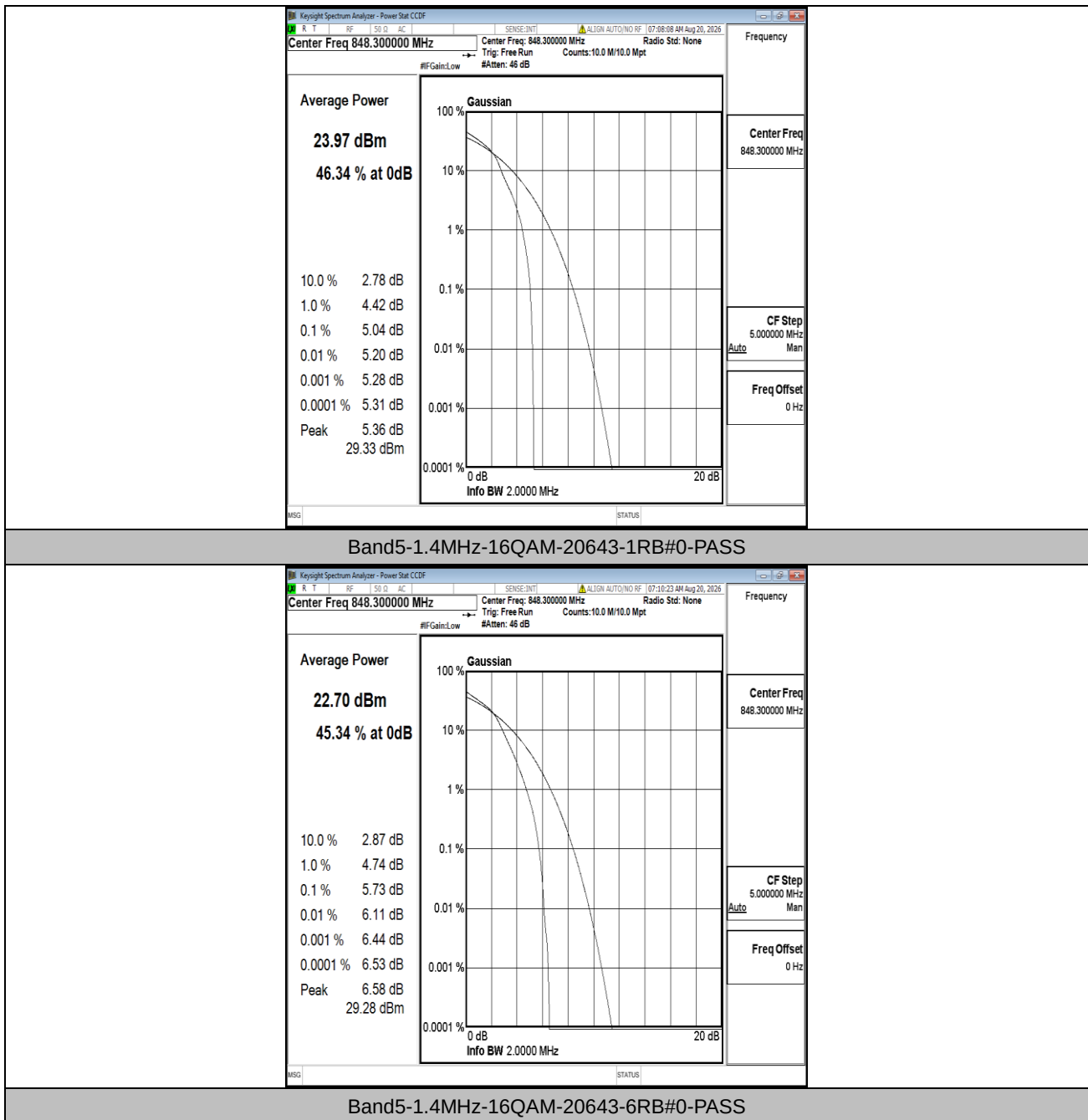


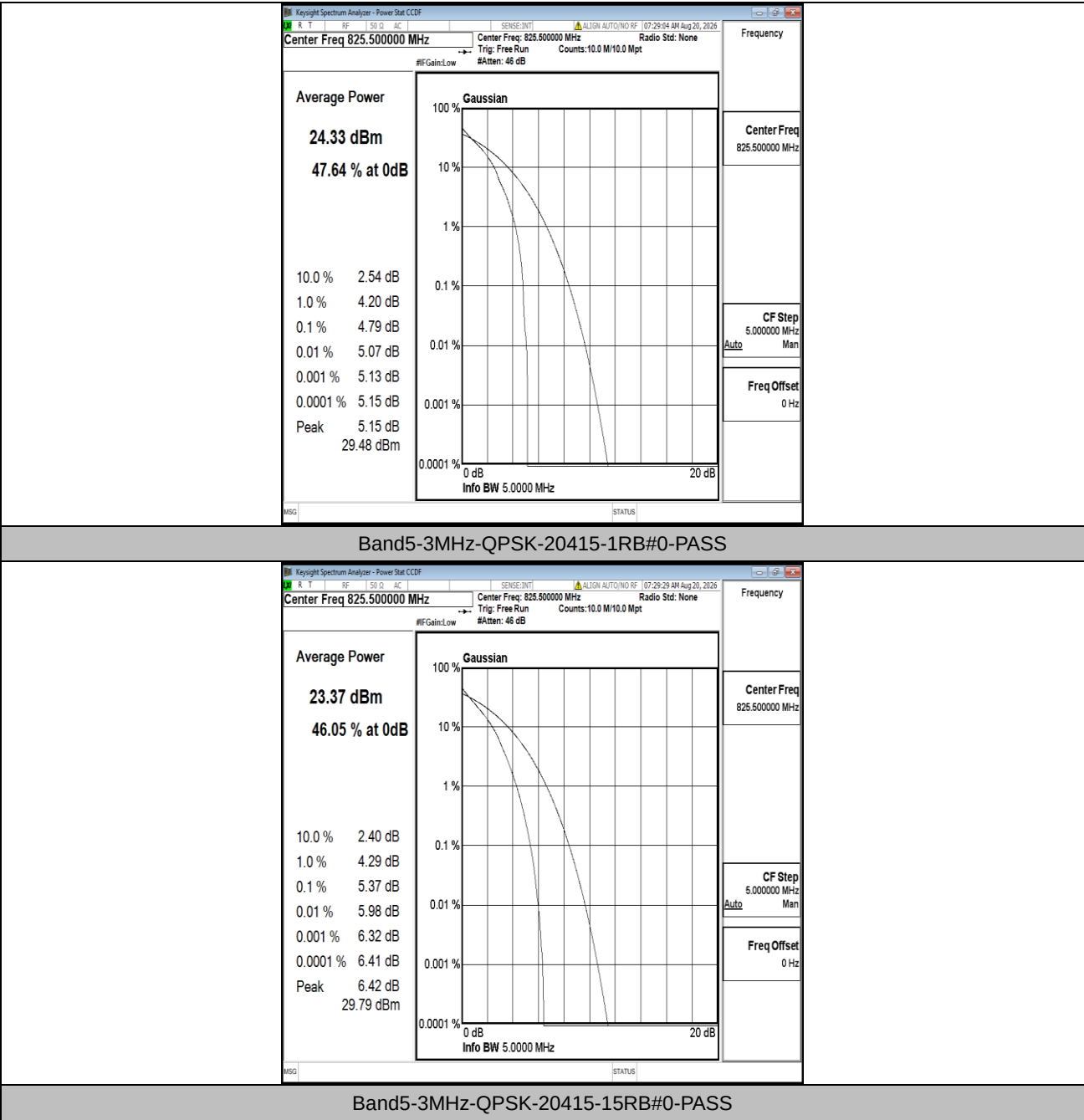


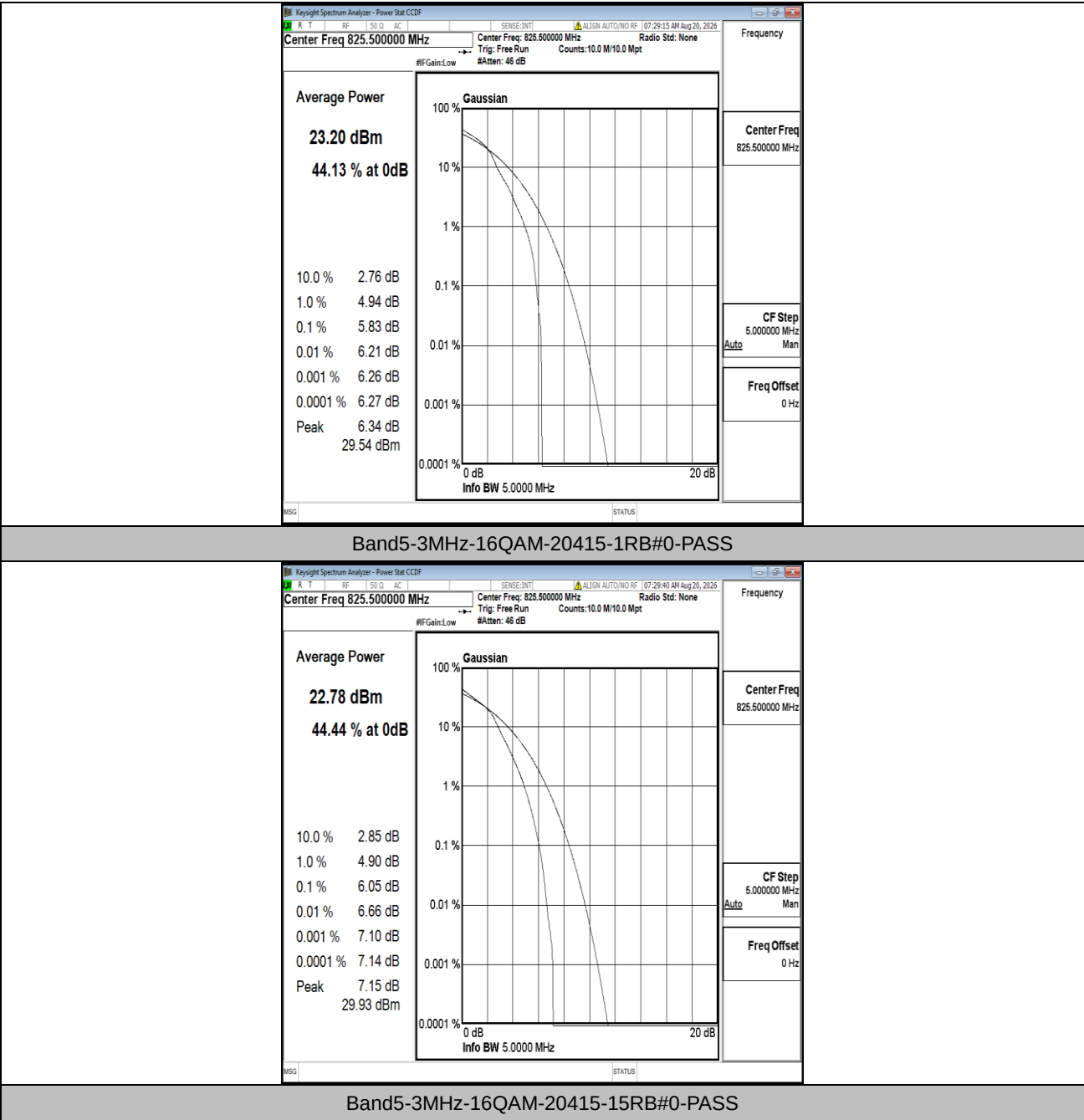


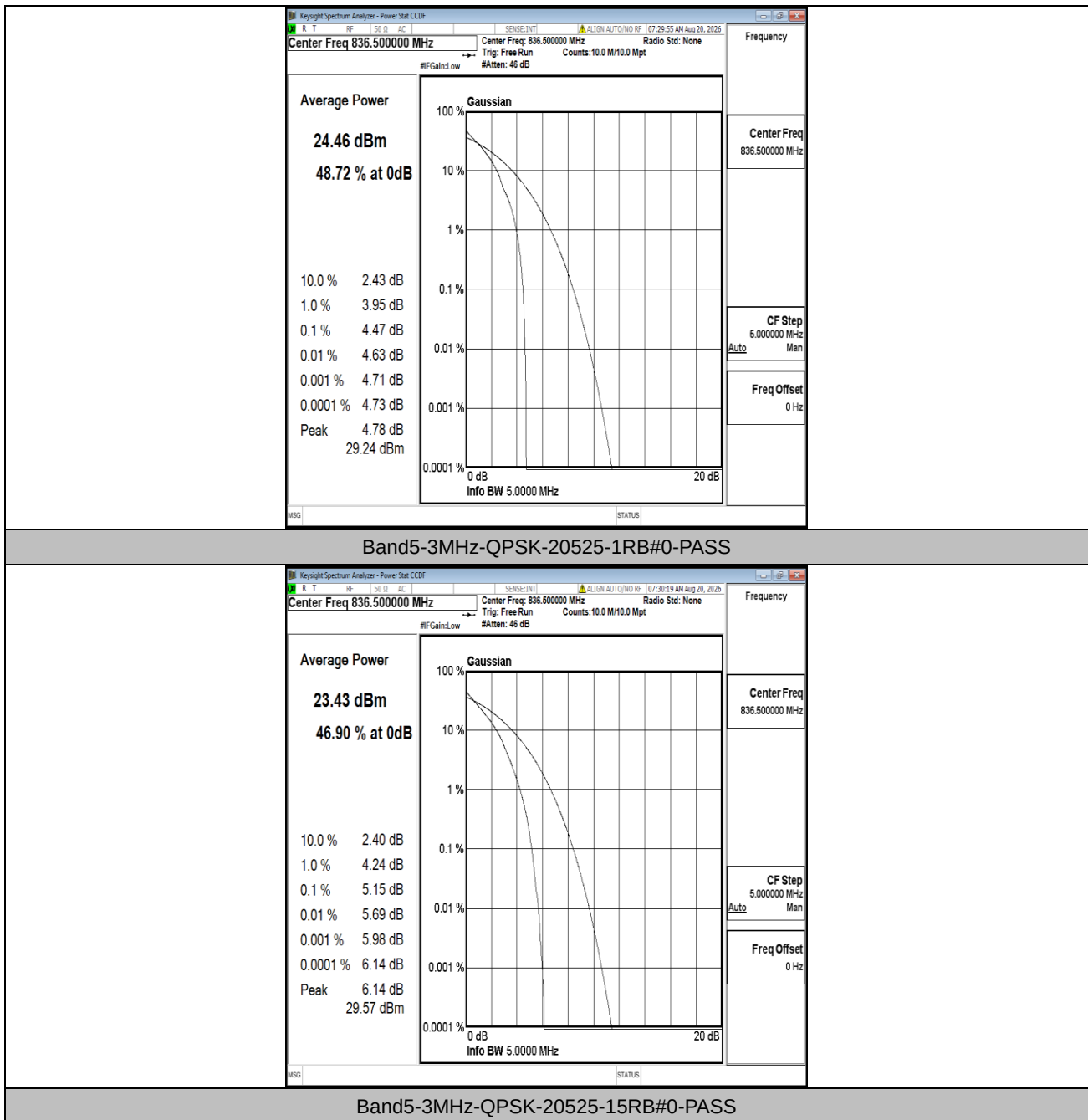


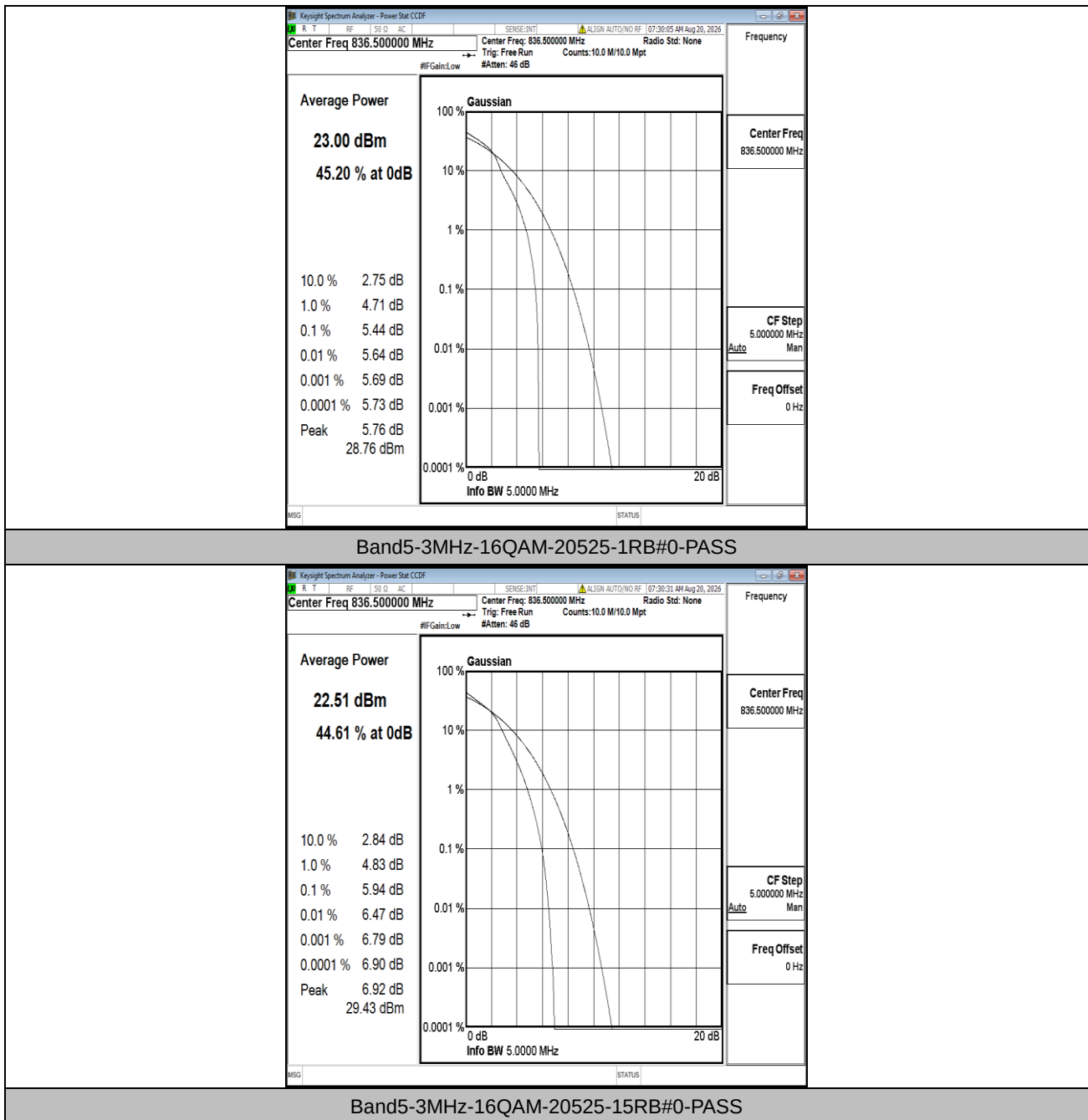


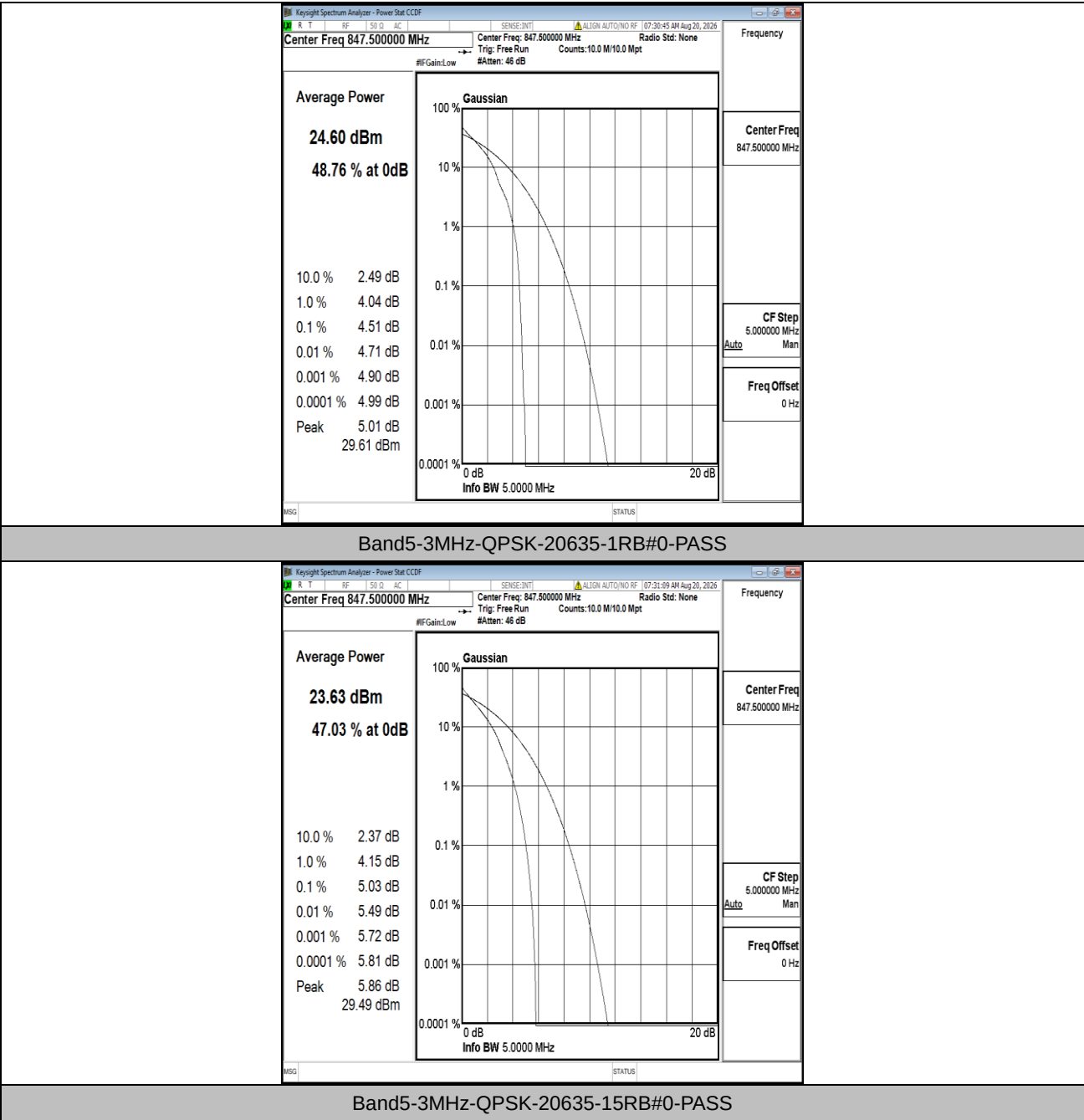


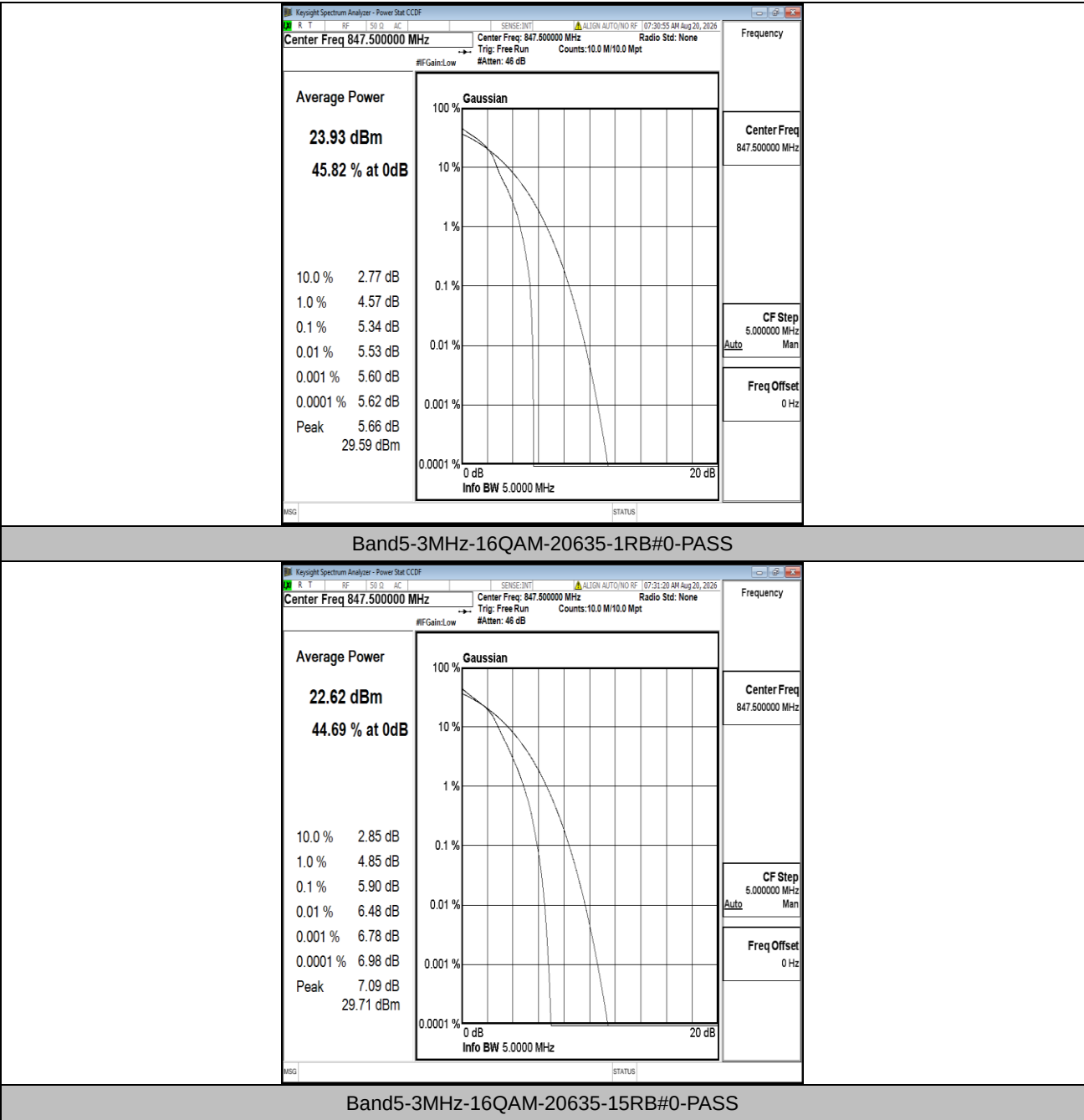


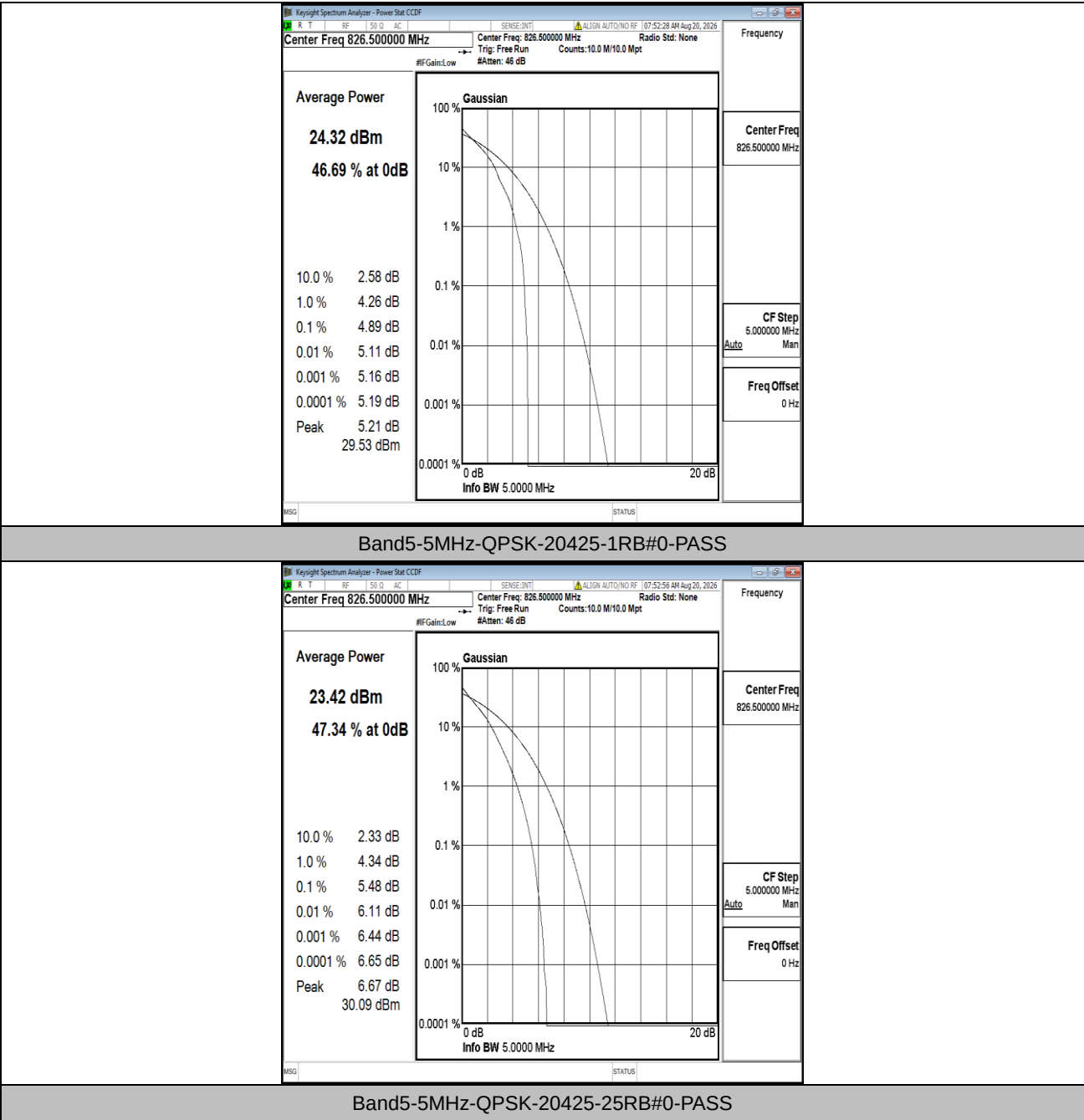


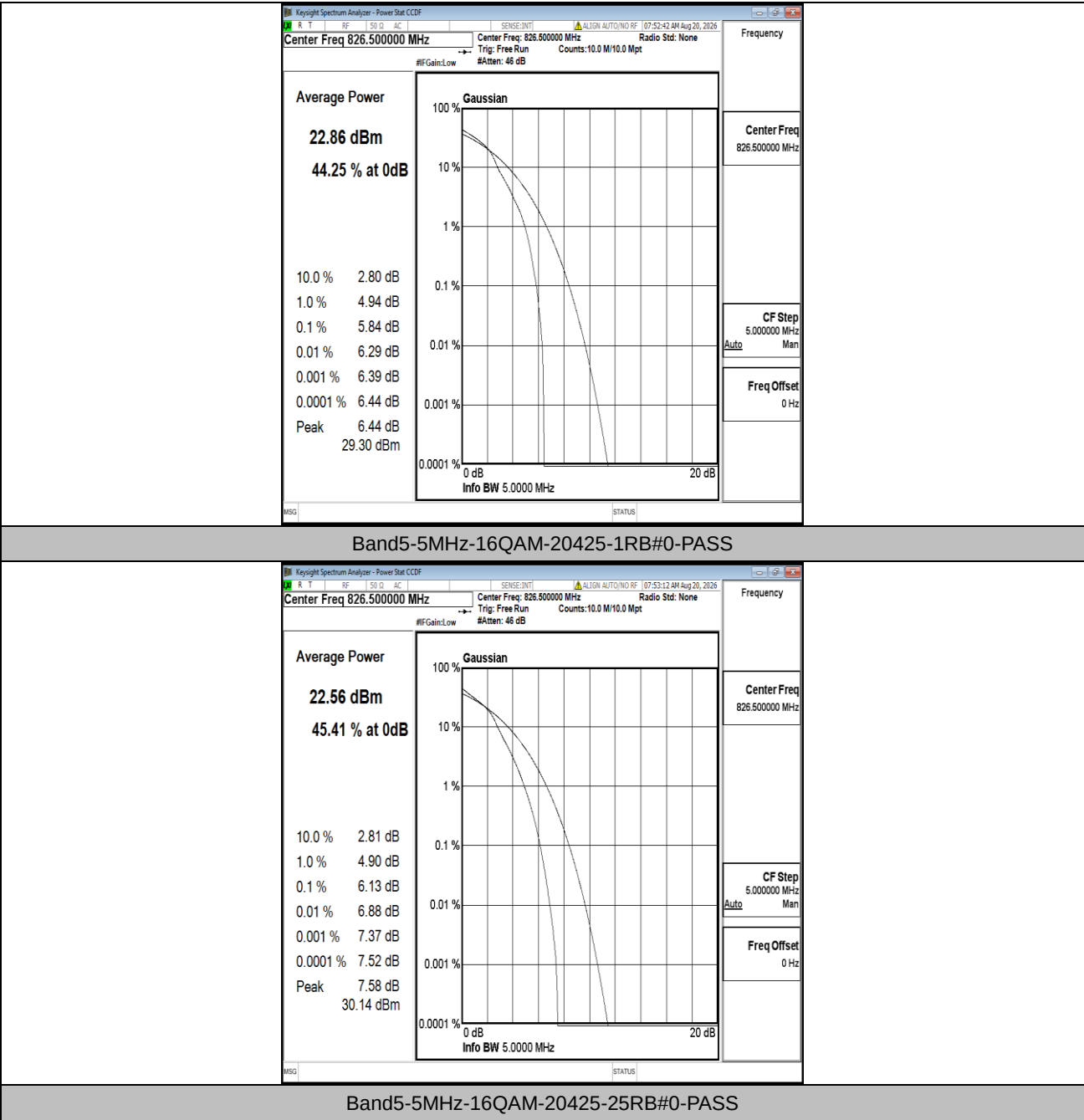


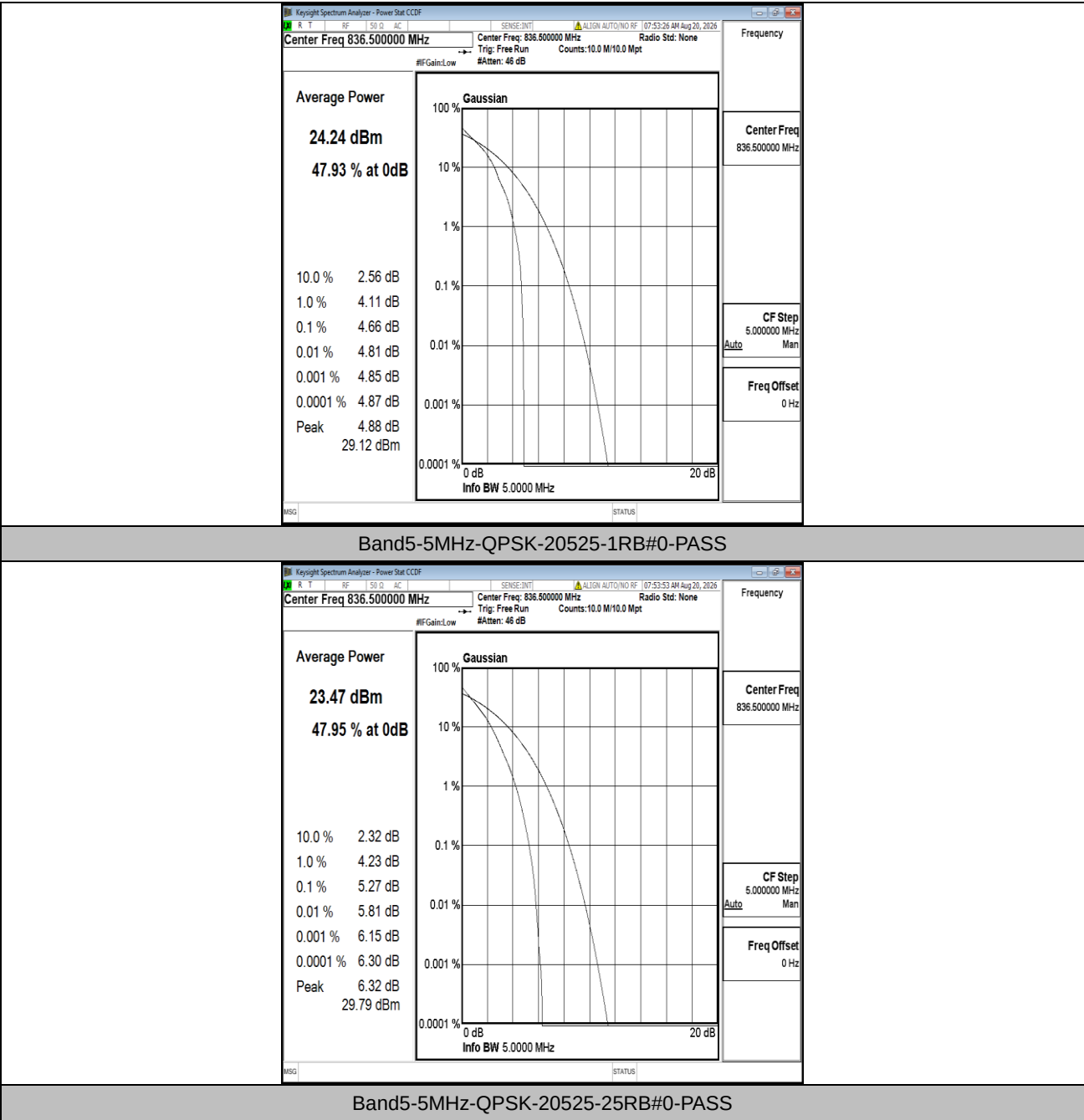


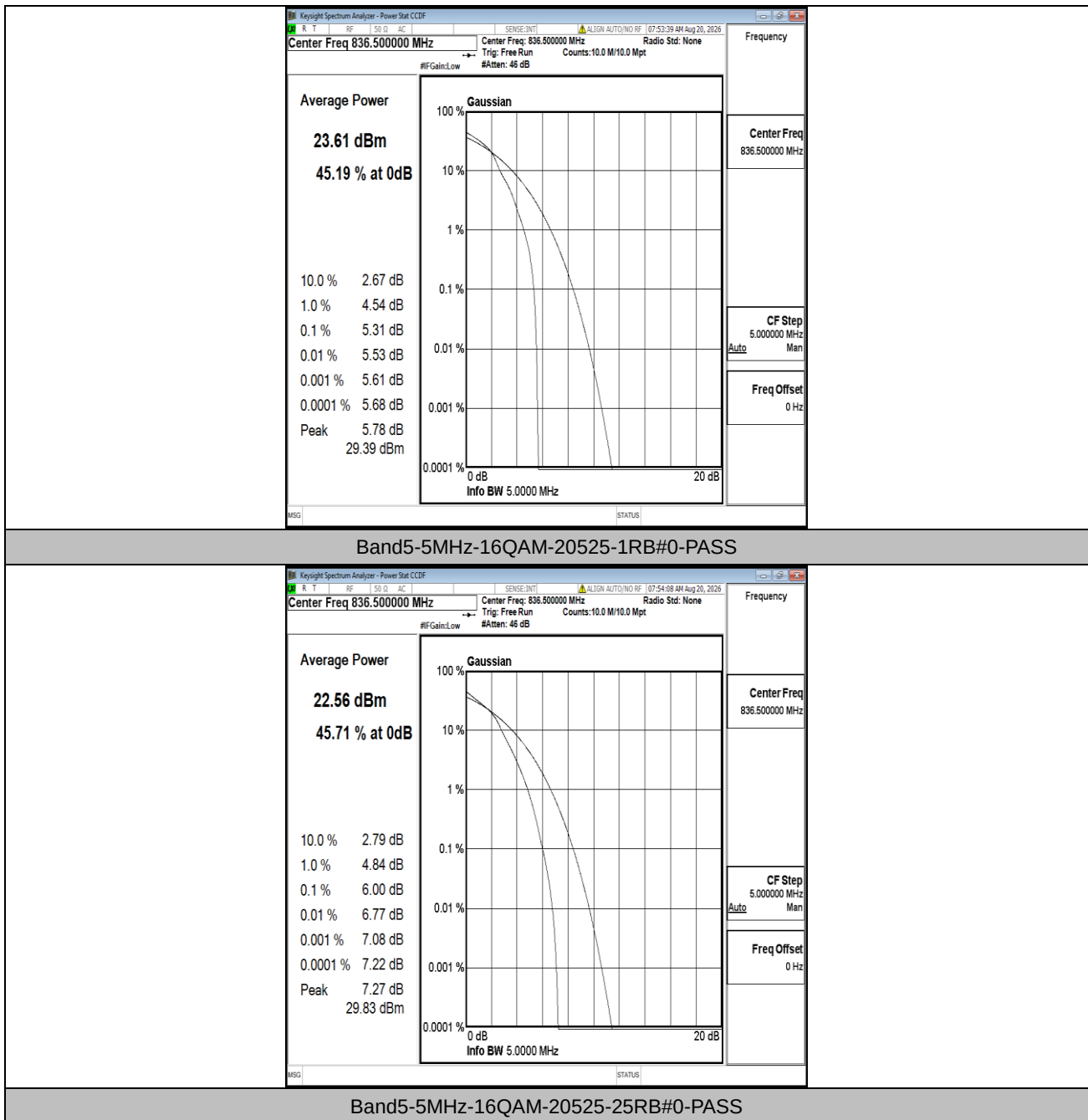


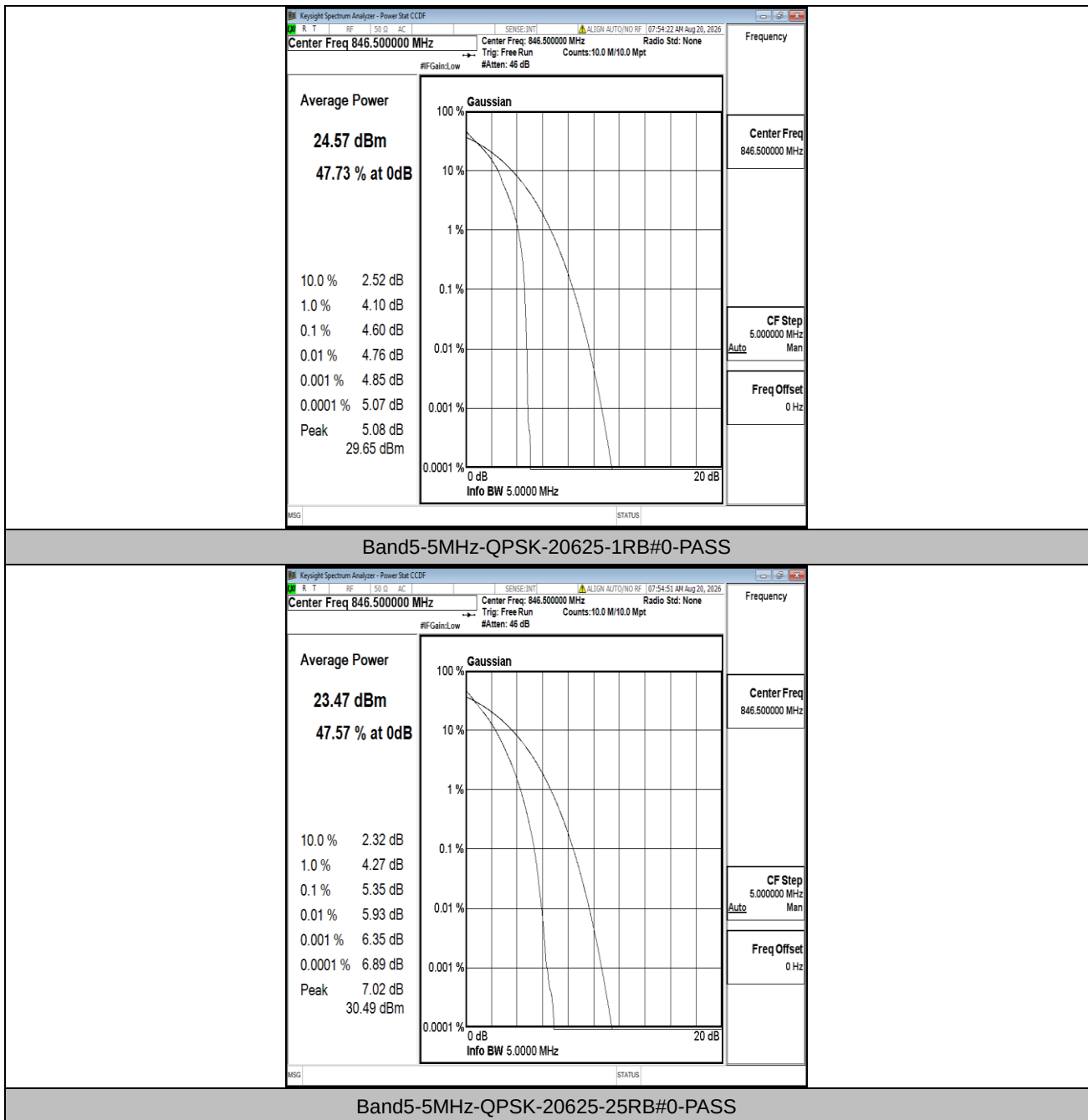


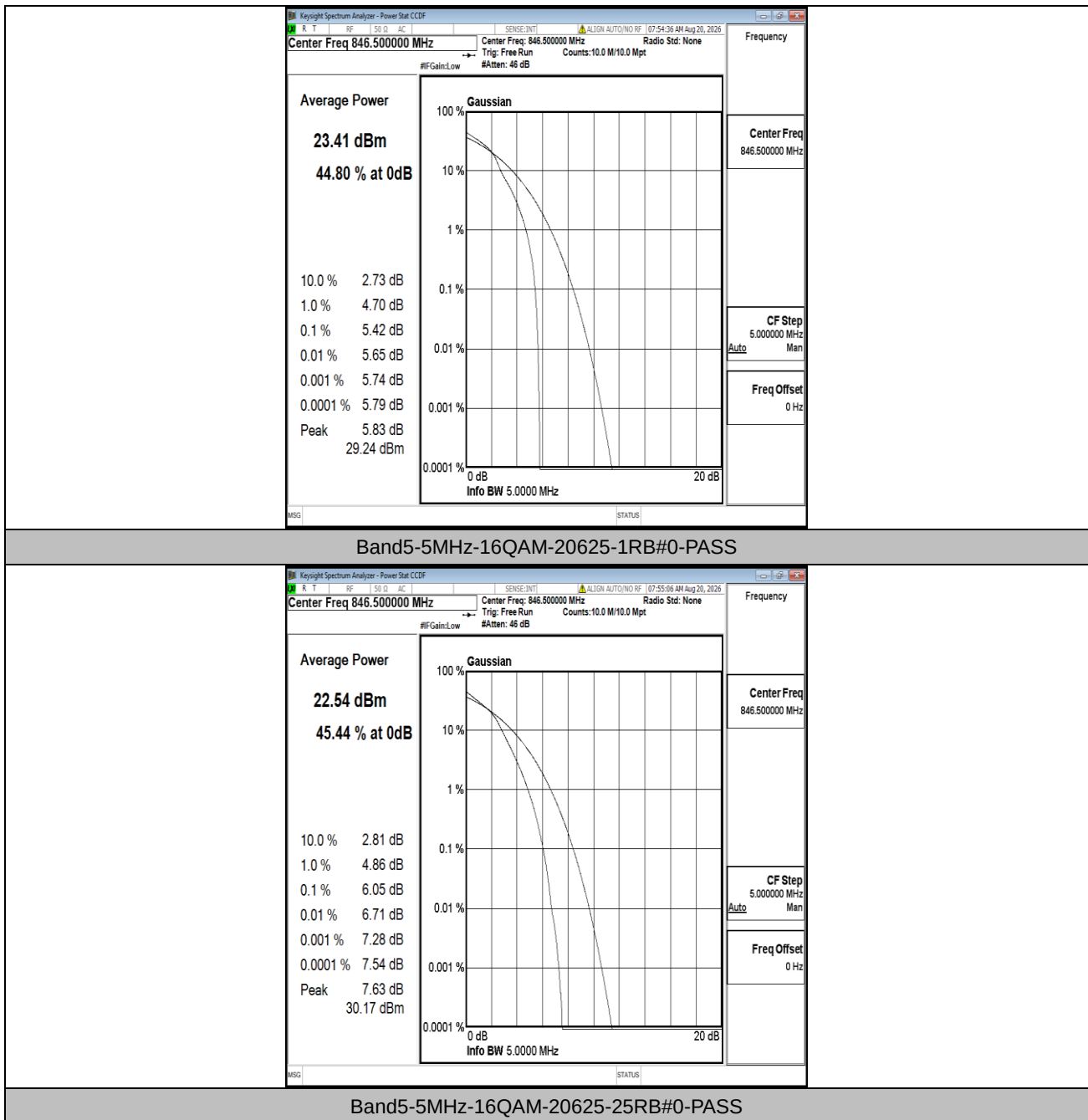


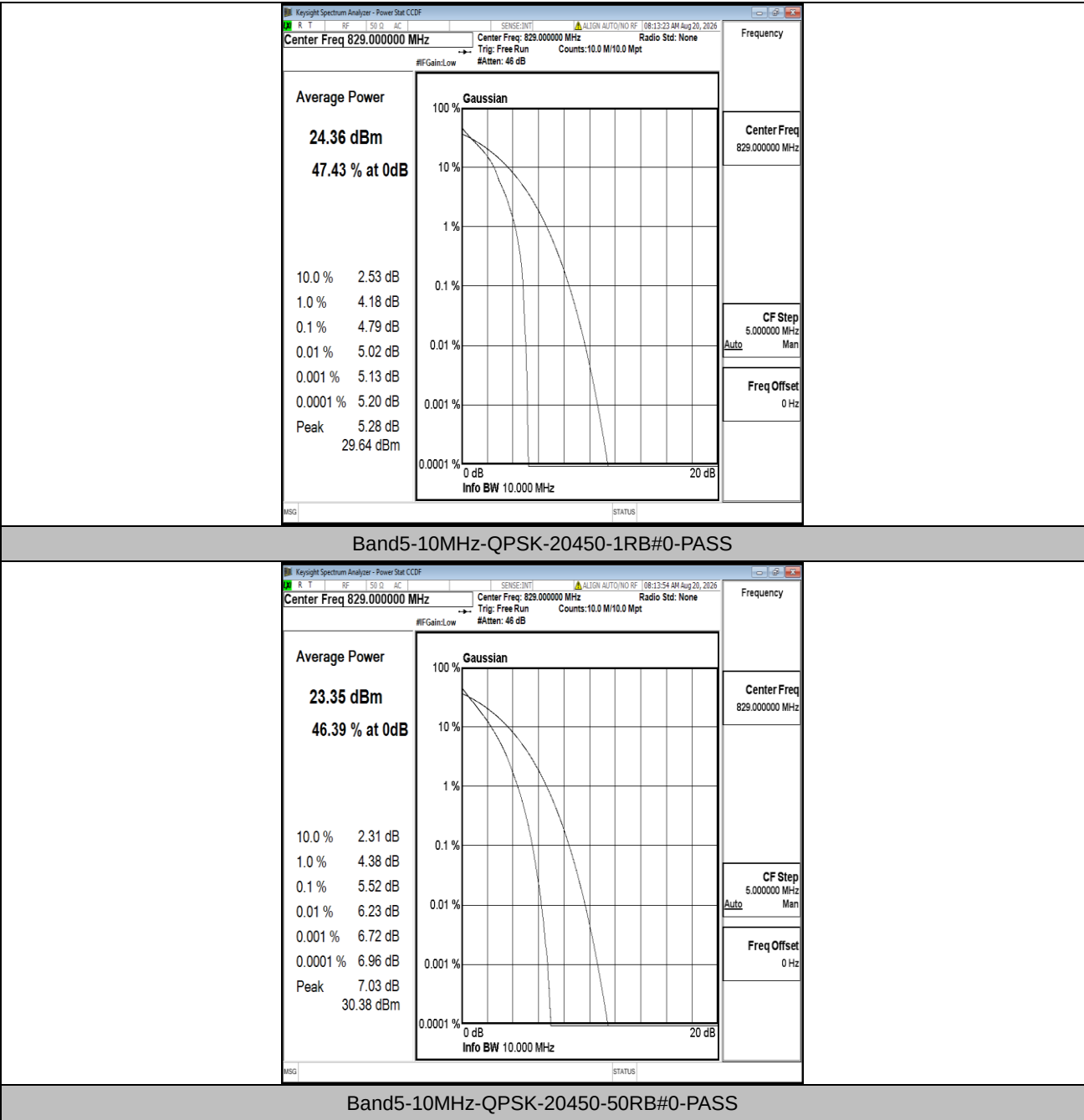


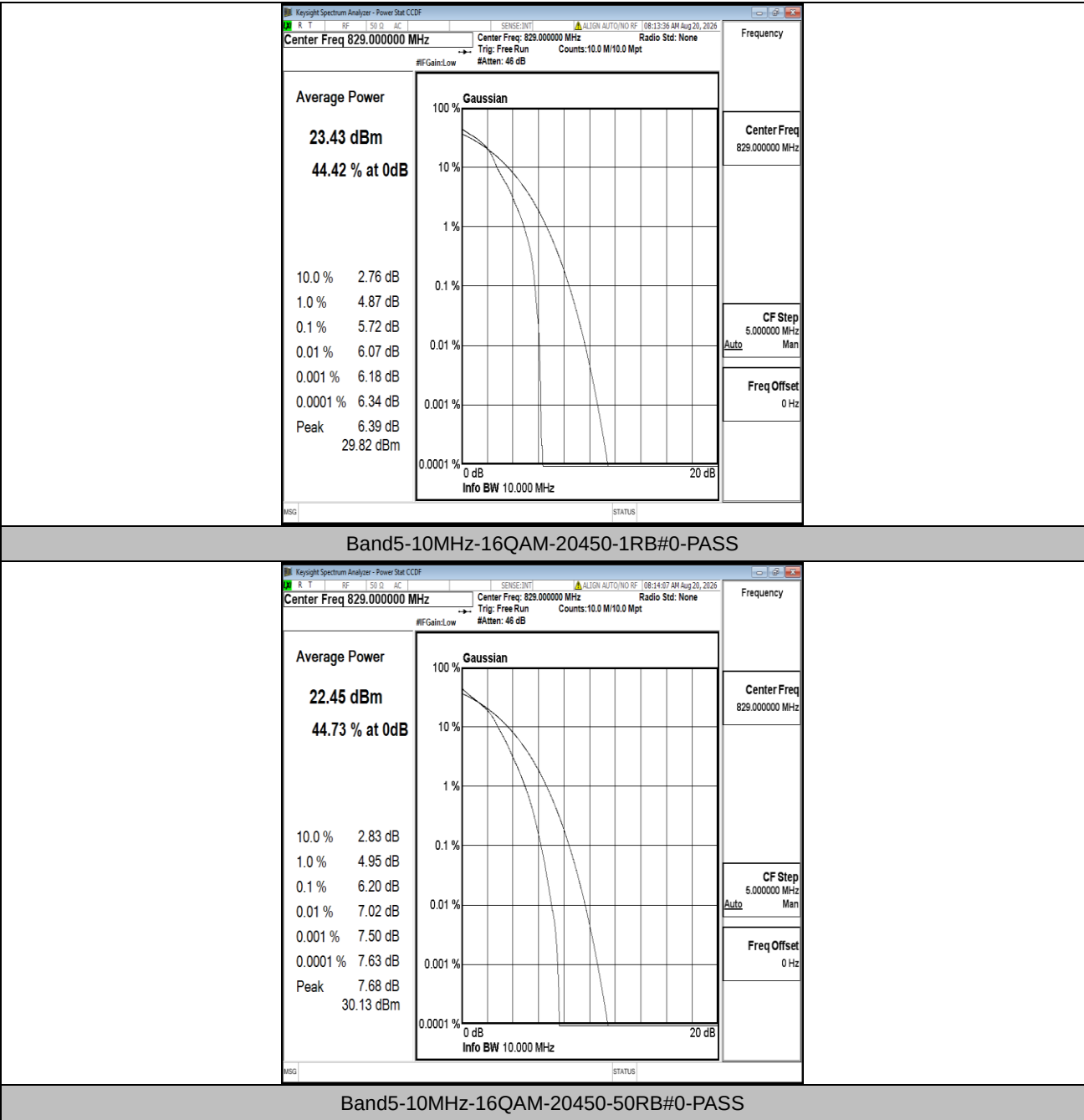


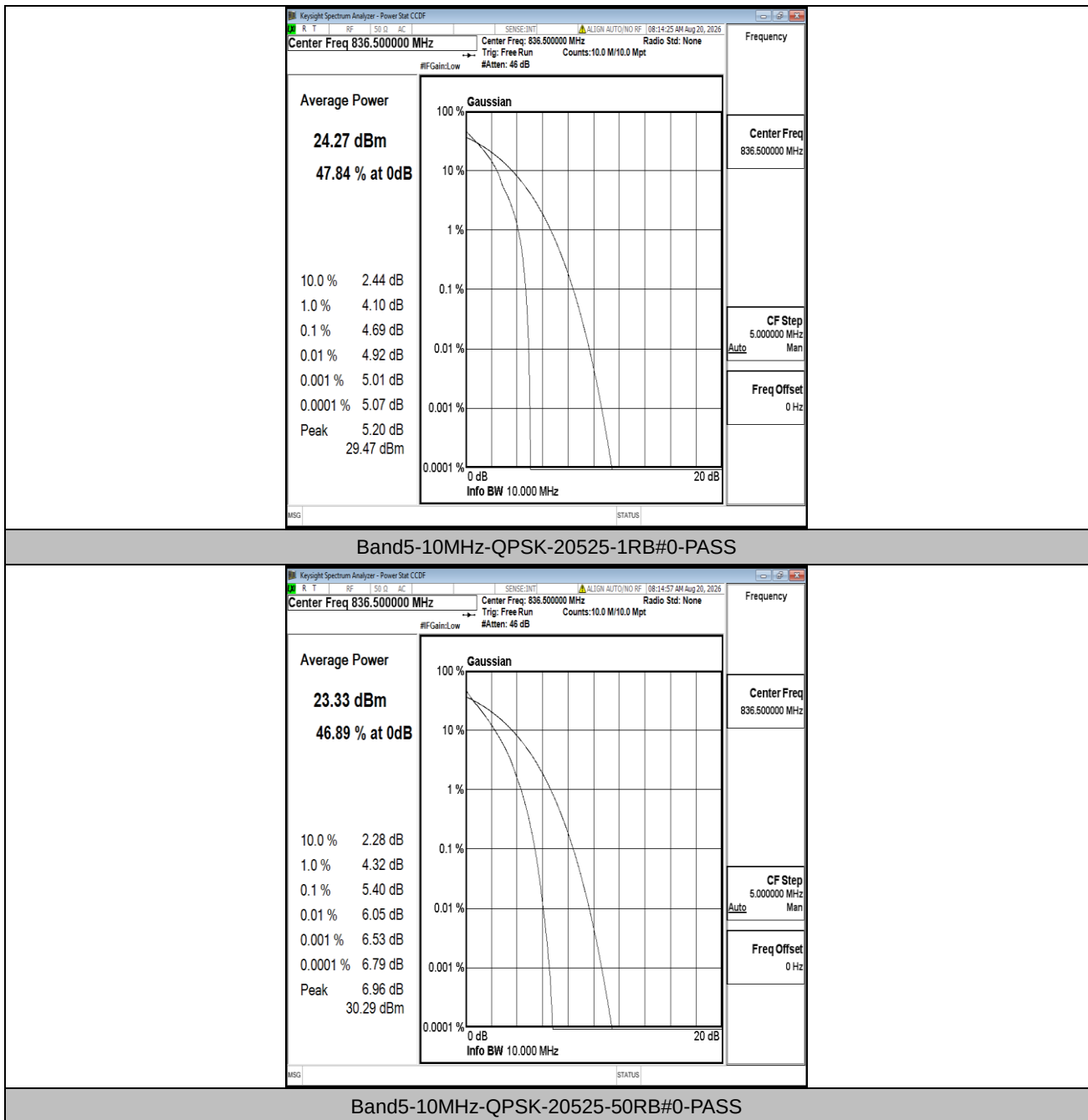


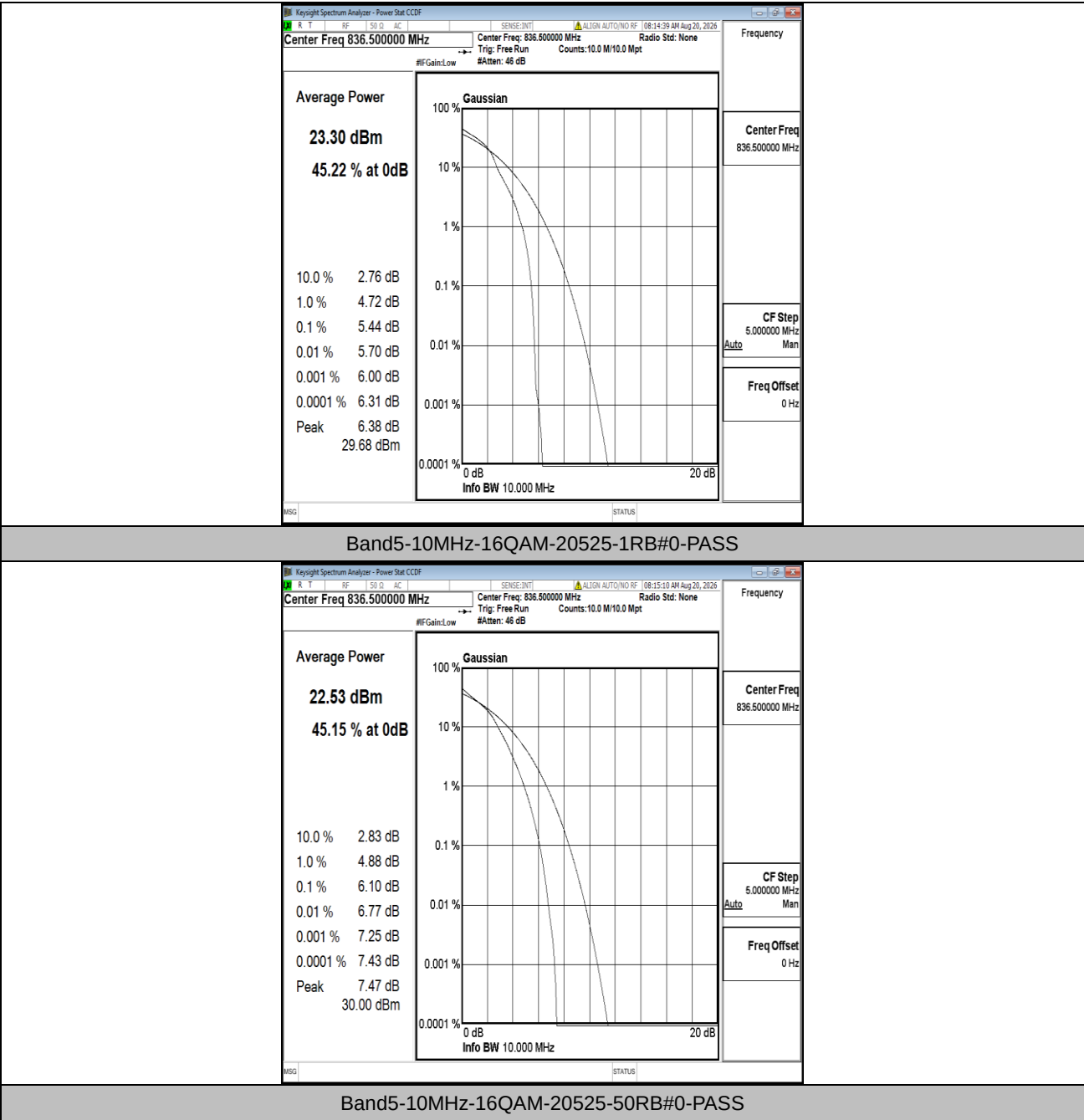


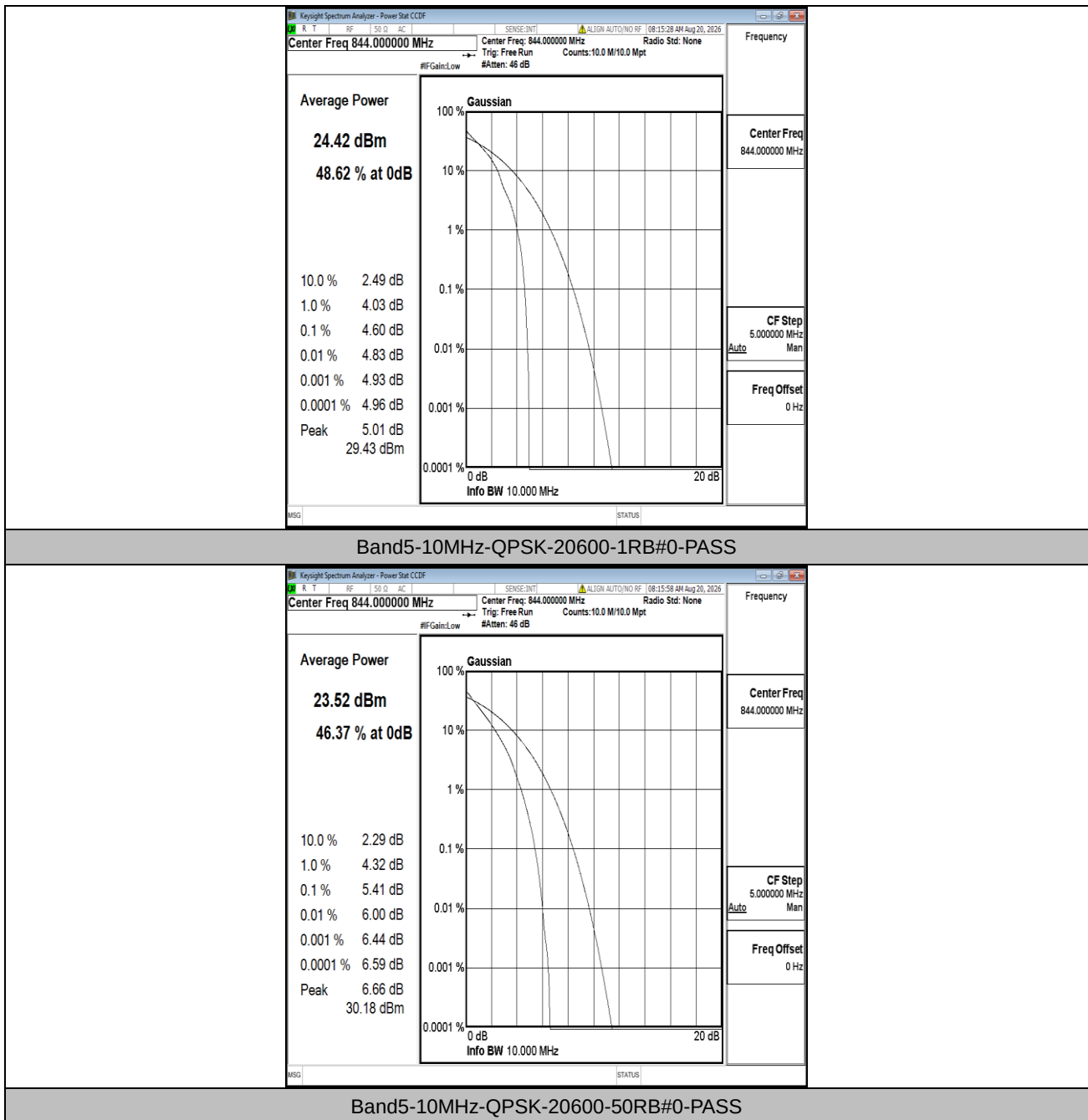


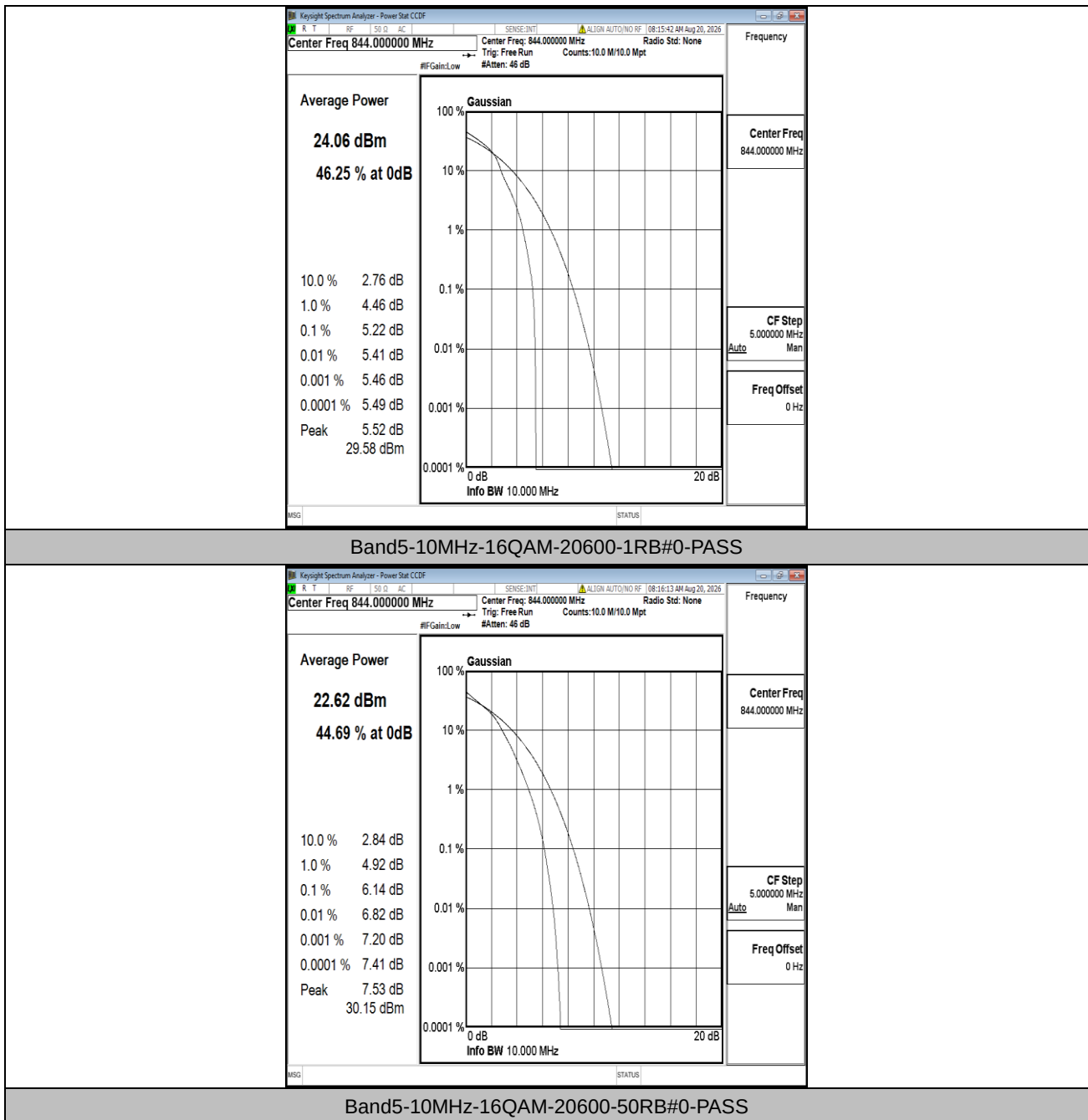










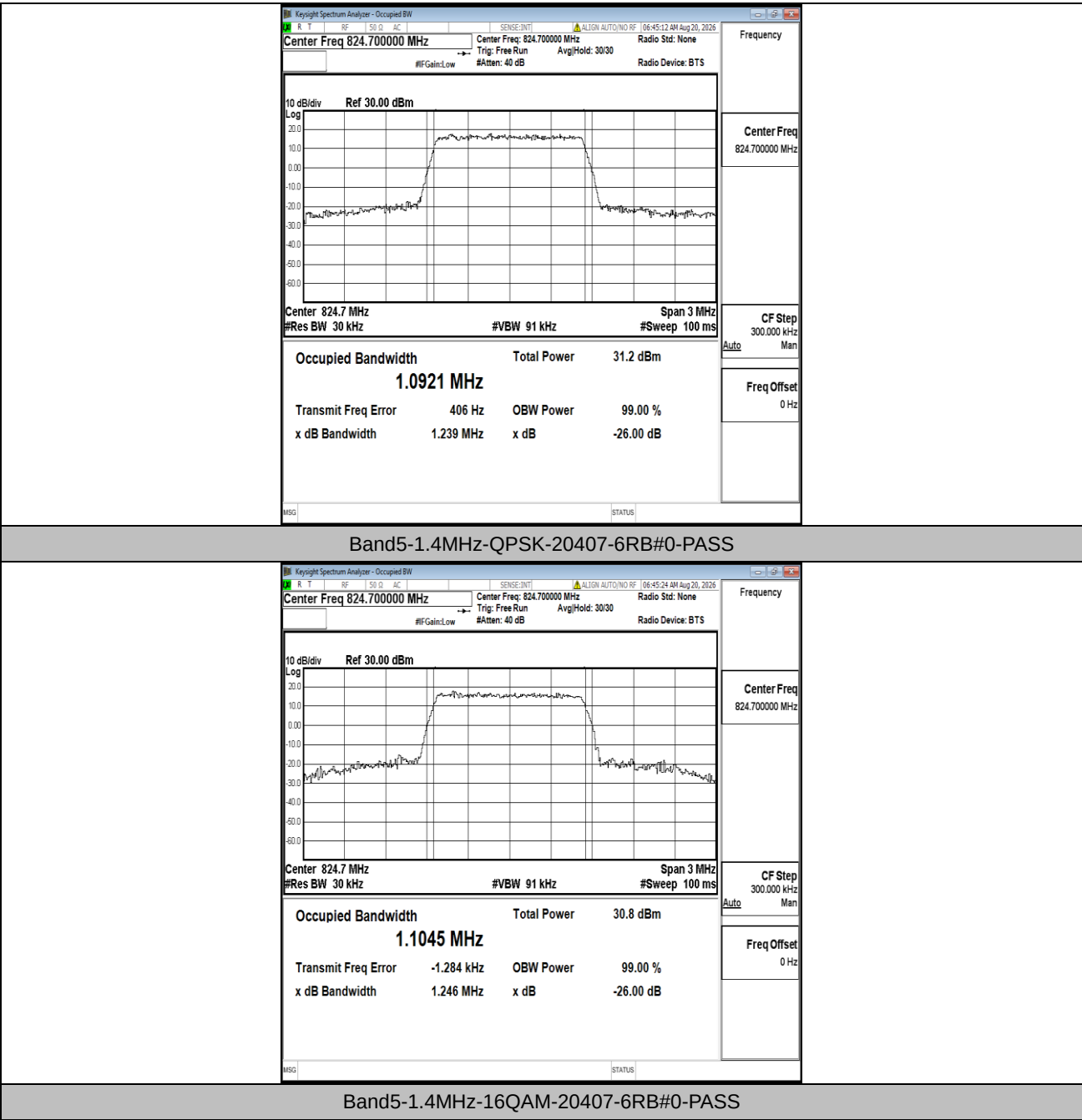


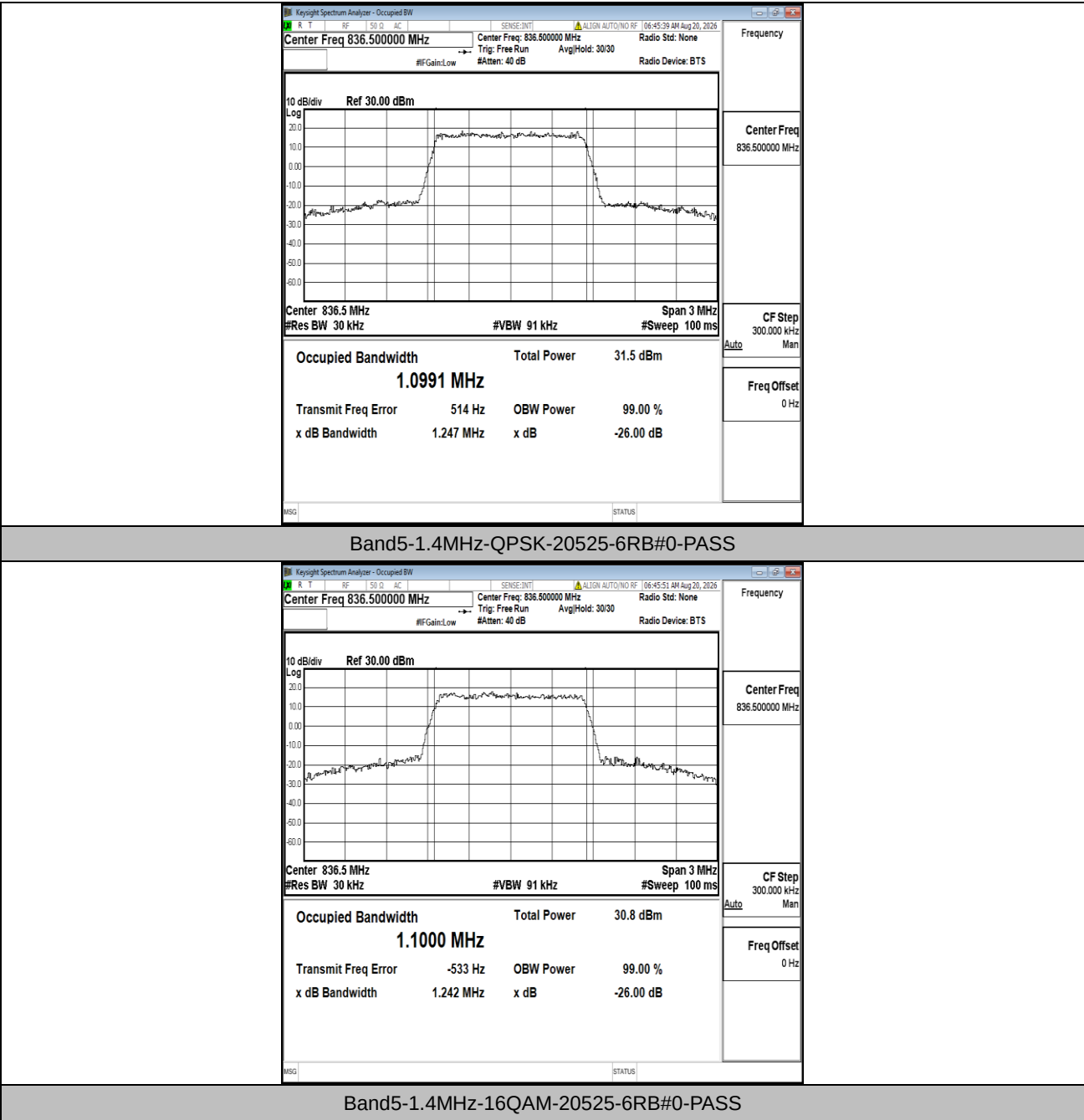
H.3 26dB Bandwidth and Occupied Bandwidth

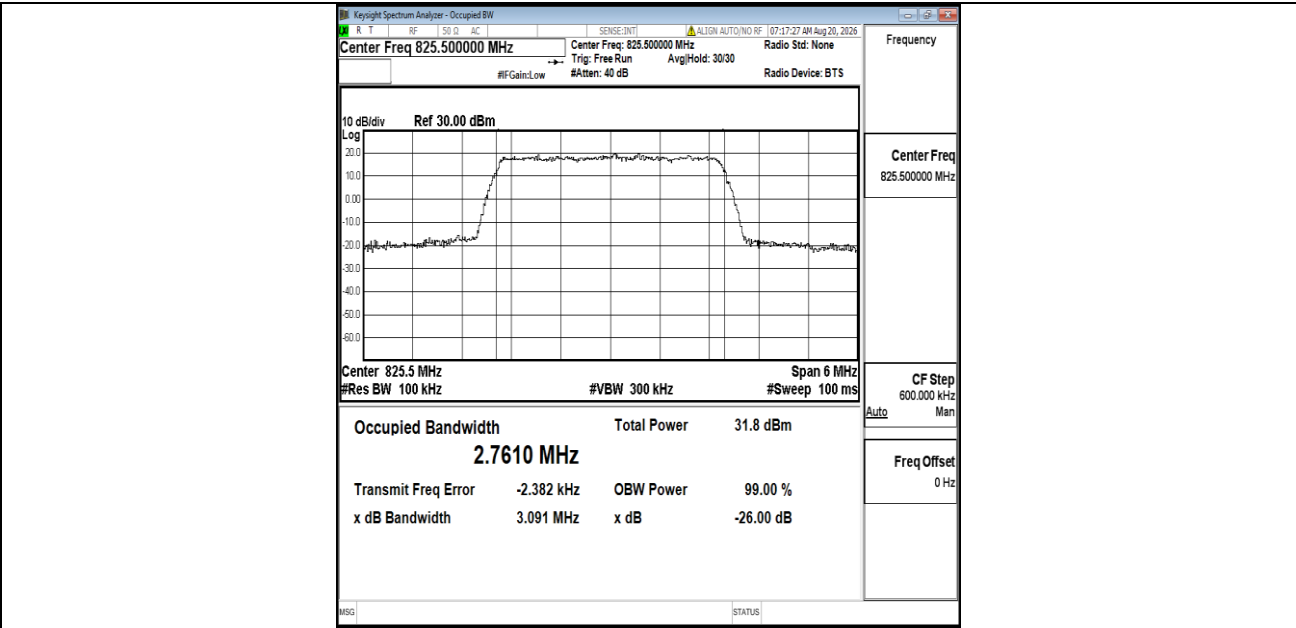
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0921	1.239	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1045	1.246	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0991	1.247	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1000	1.242	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0969	1.248	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0910	1.245	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7610	3.091	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7617	3.090	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7536	3.106	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7529	3.115	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7464	3.088	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7448	3.091	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5195	4.974	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5102	4.968	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4981	4.980	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5274	4.988	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5085	4.996	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5279	4.990	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.0208	9.921	PASS
Band5	10MHz	16QAM	20450	50RB#0	9.0033	9.936	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0077	9.914	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9959	9.944	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9807	9.923	PASS
Band5	10MHz	16QAM	20600	50RB#0	9.0197	9.919	PASS

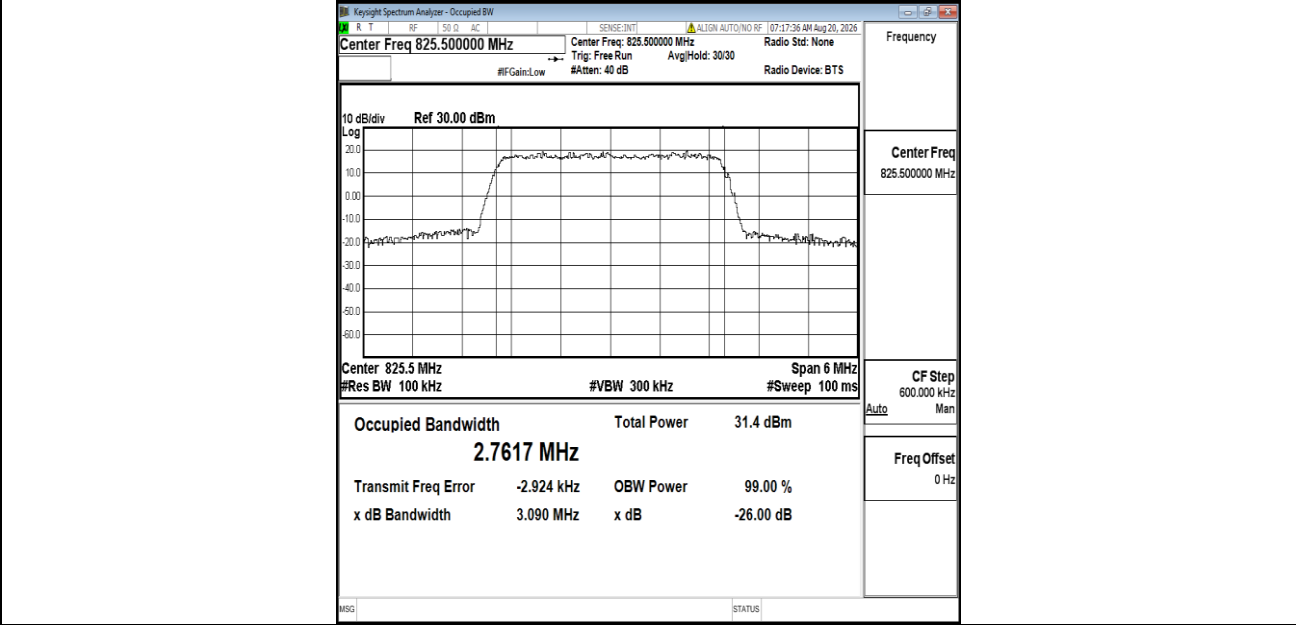
Test Graphs



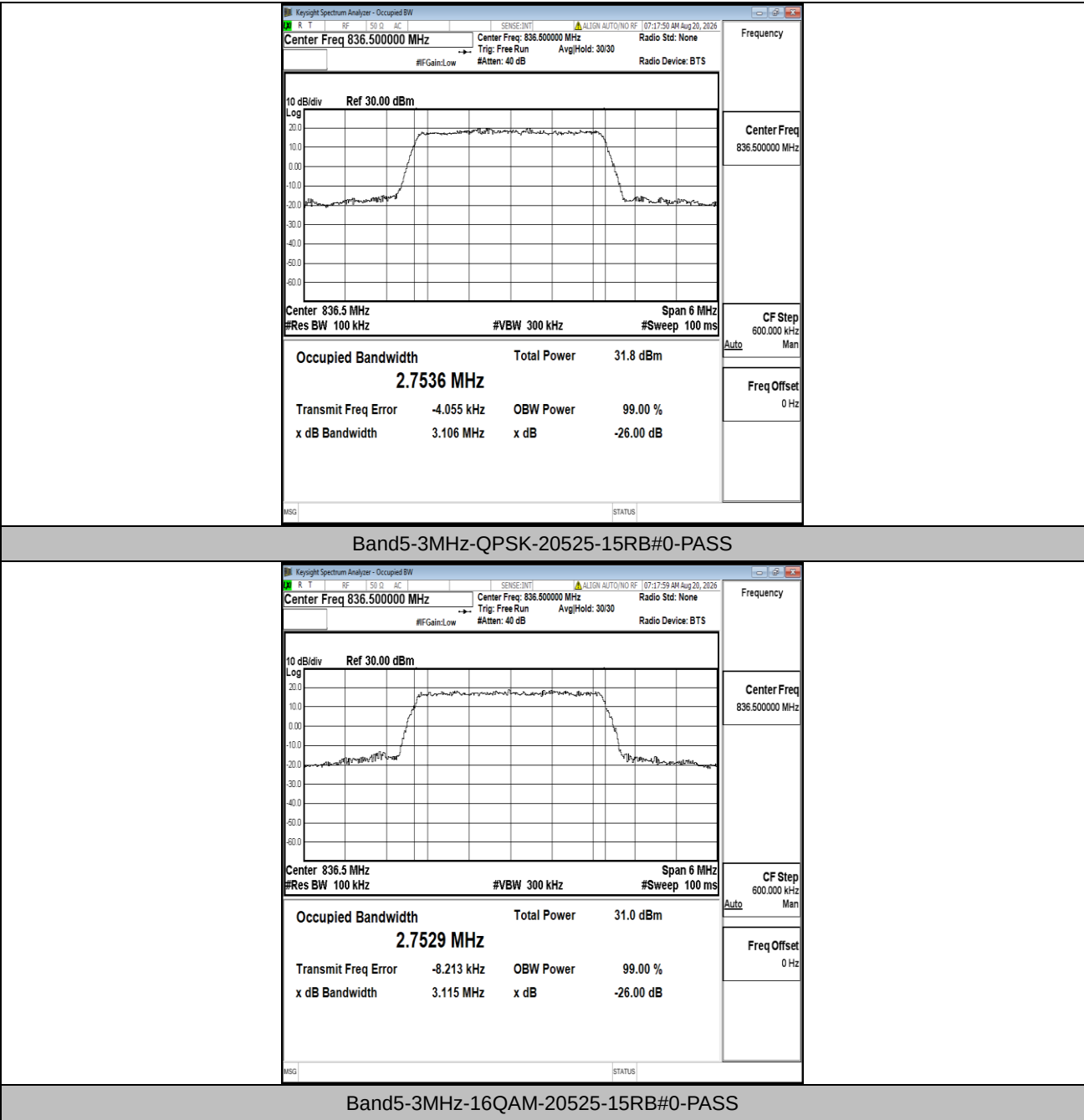


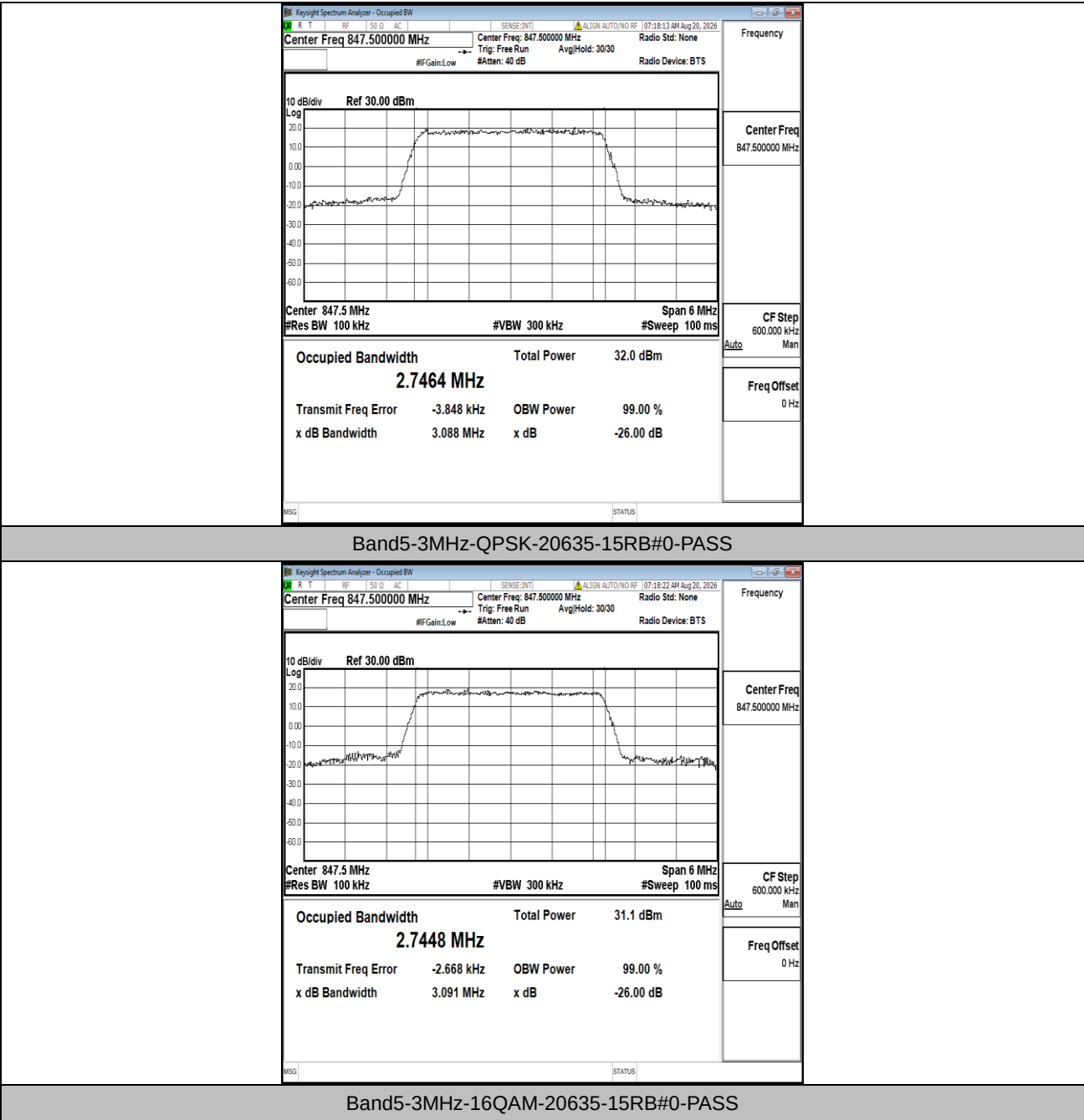


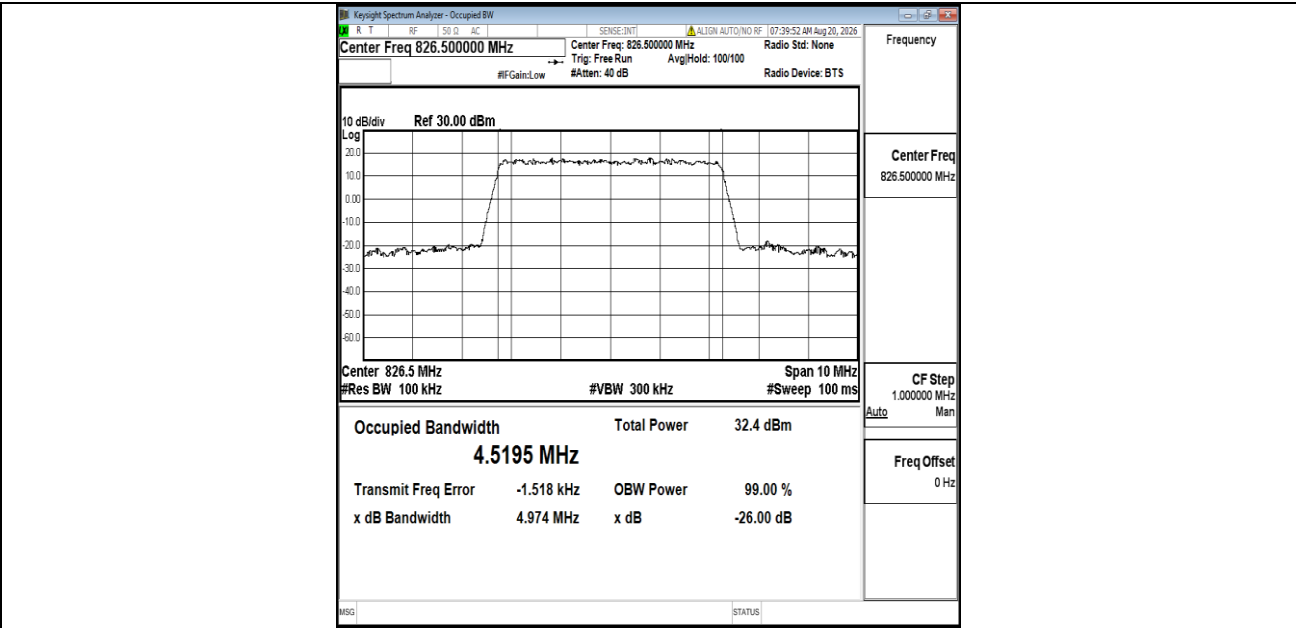
Band5-3MHz-QPSK-20415-15RB#0-PASS



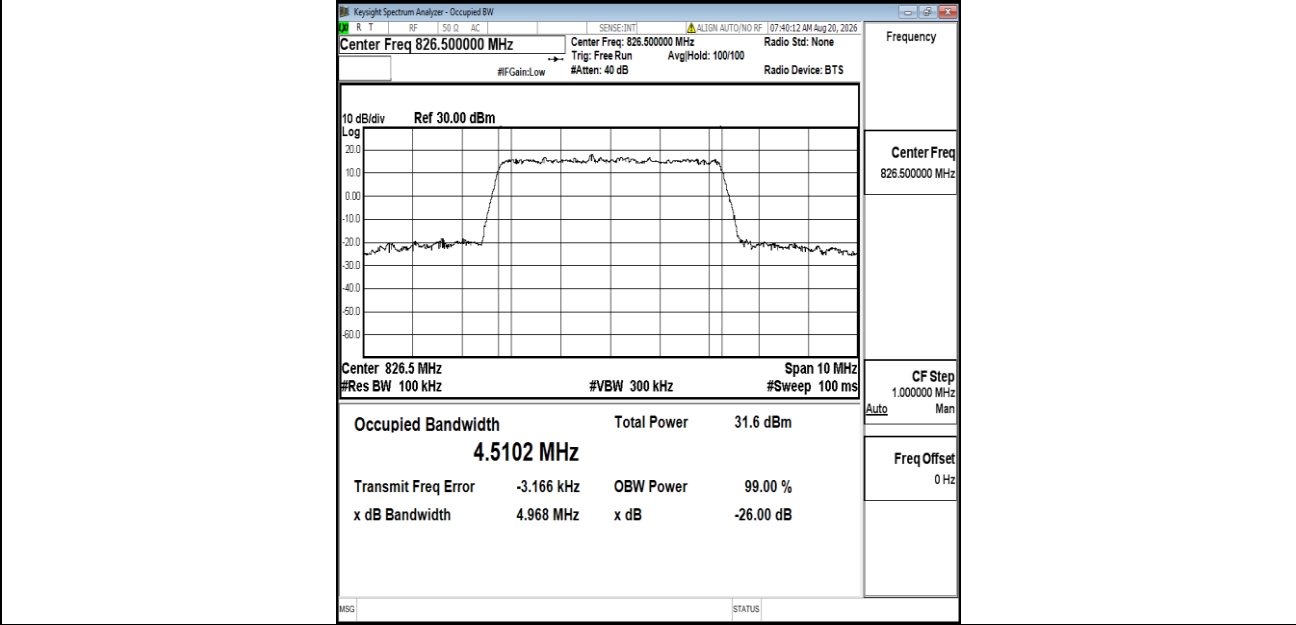
Band5-3MHz-16QAM-20415-15RB#0-PASS



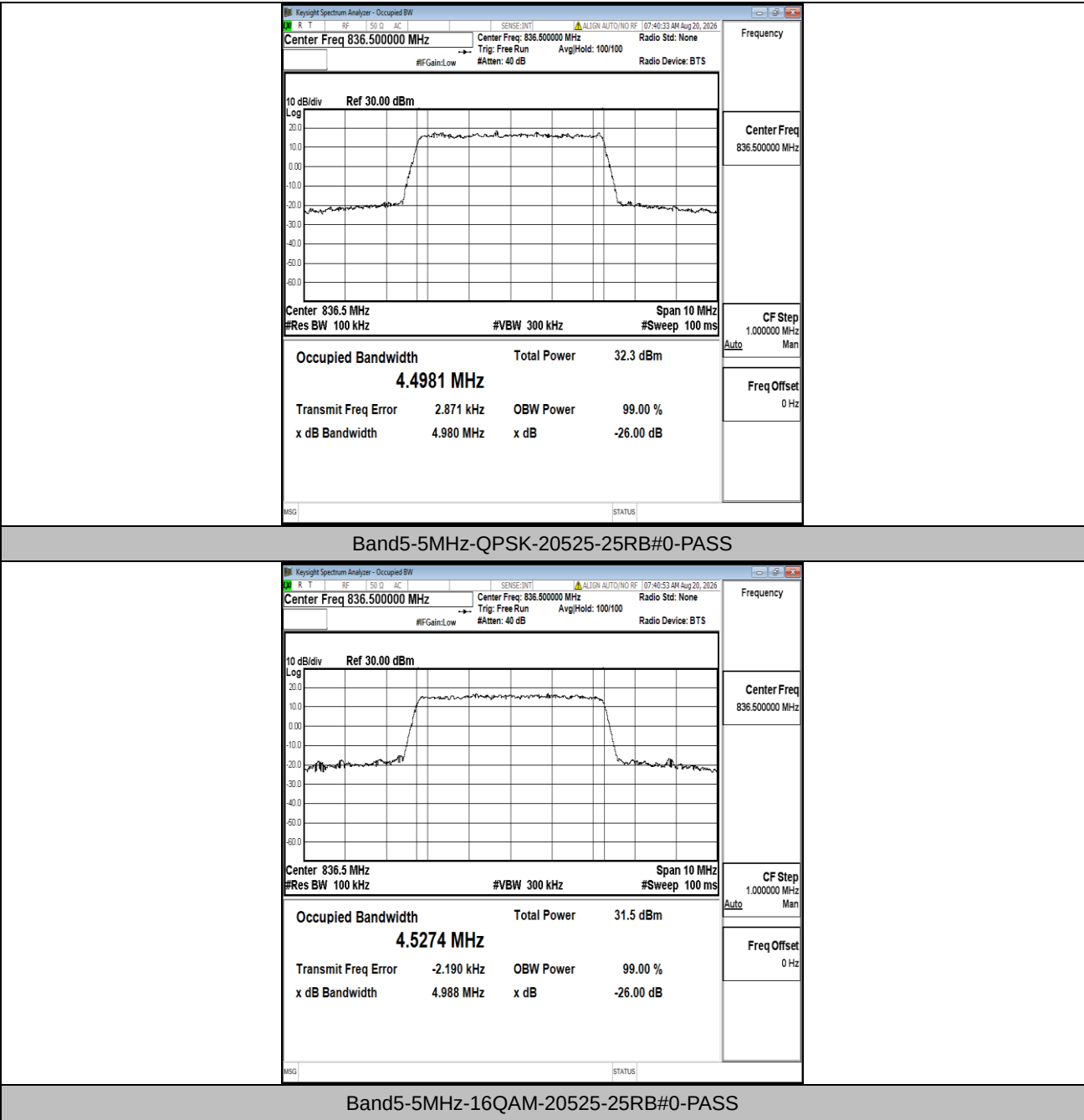


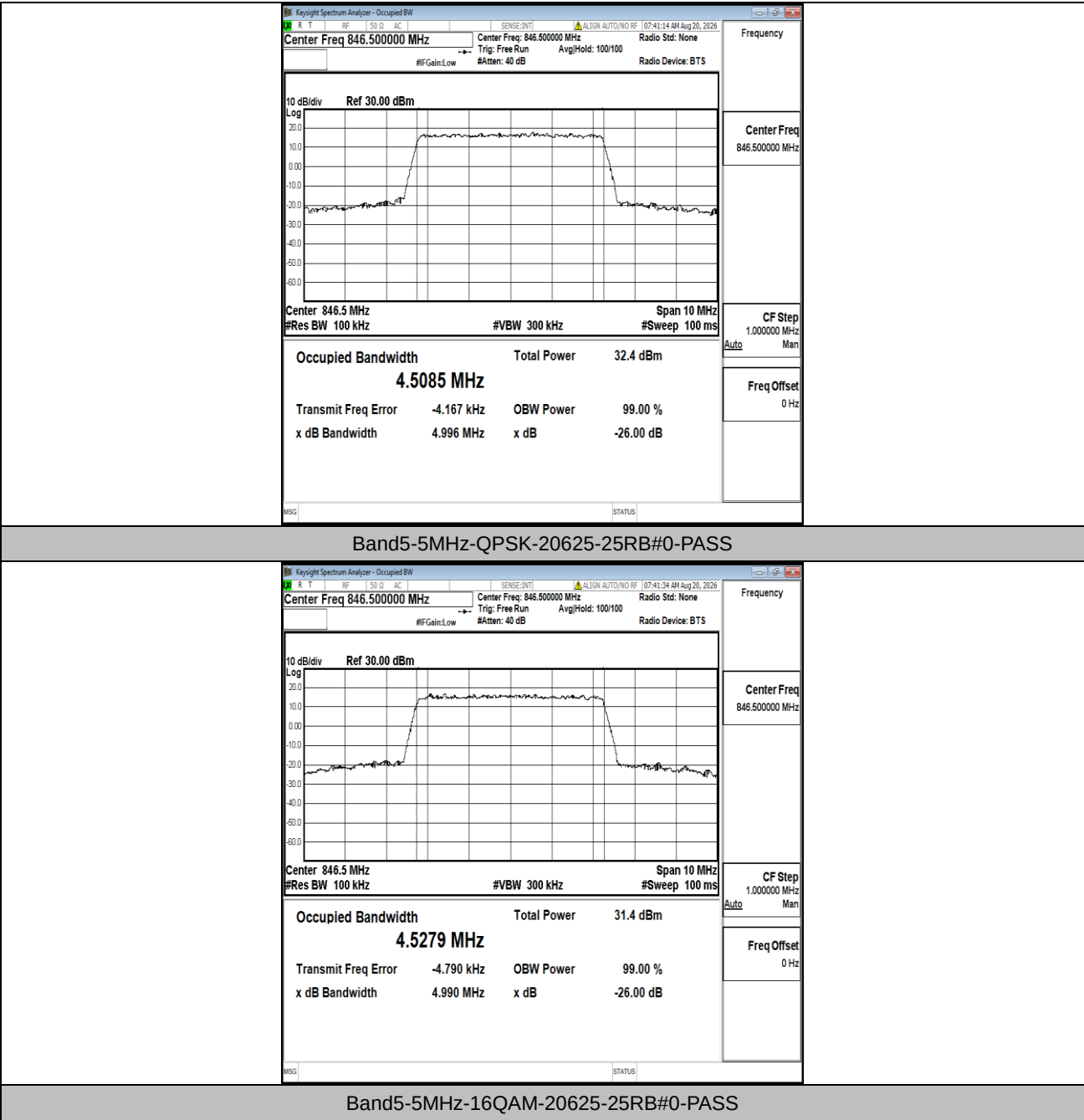


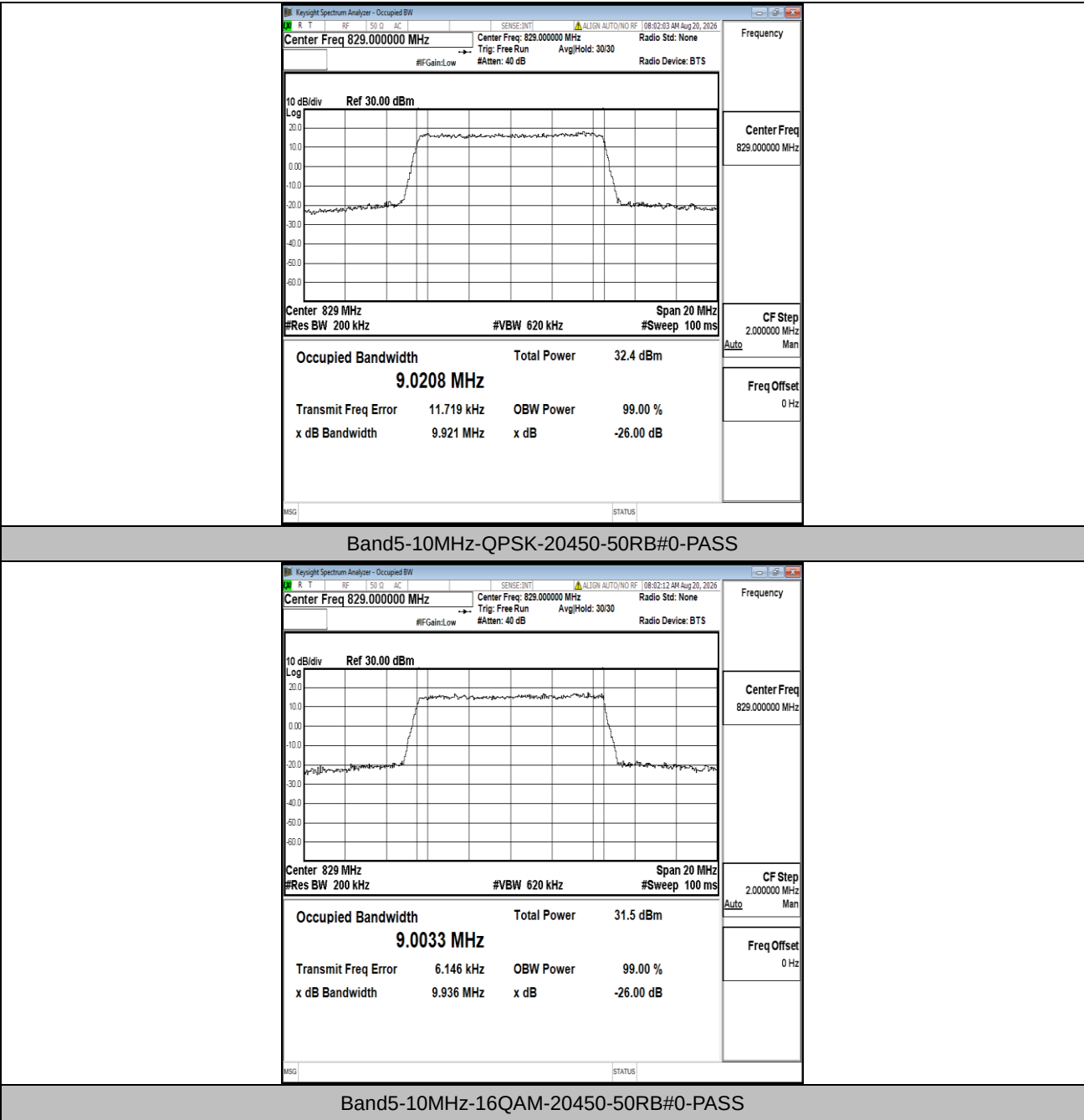
Band5-5MHz-QPSK-20425-25RB#0-PASS

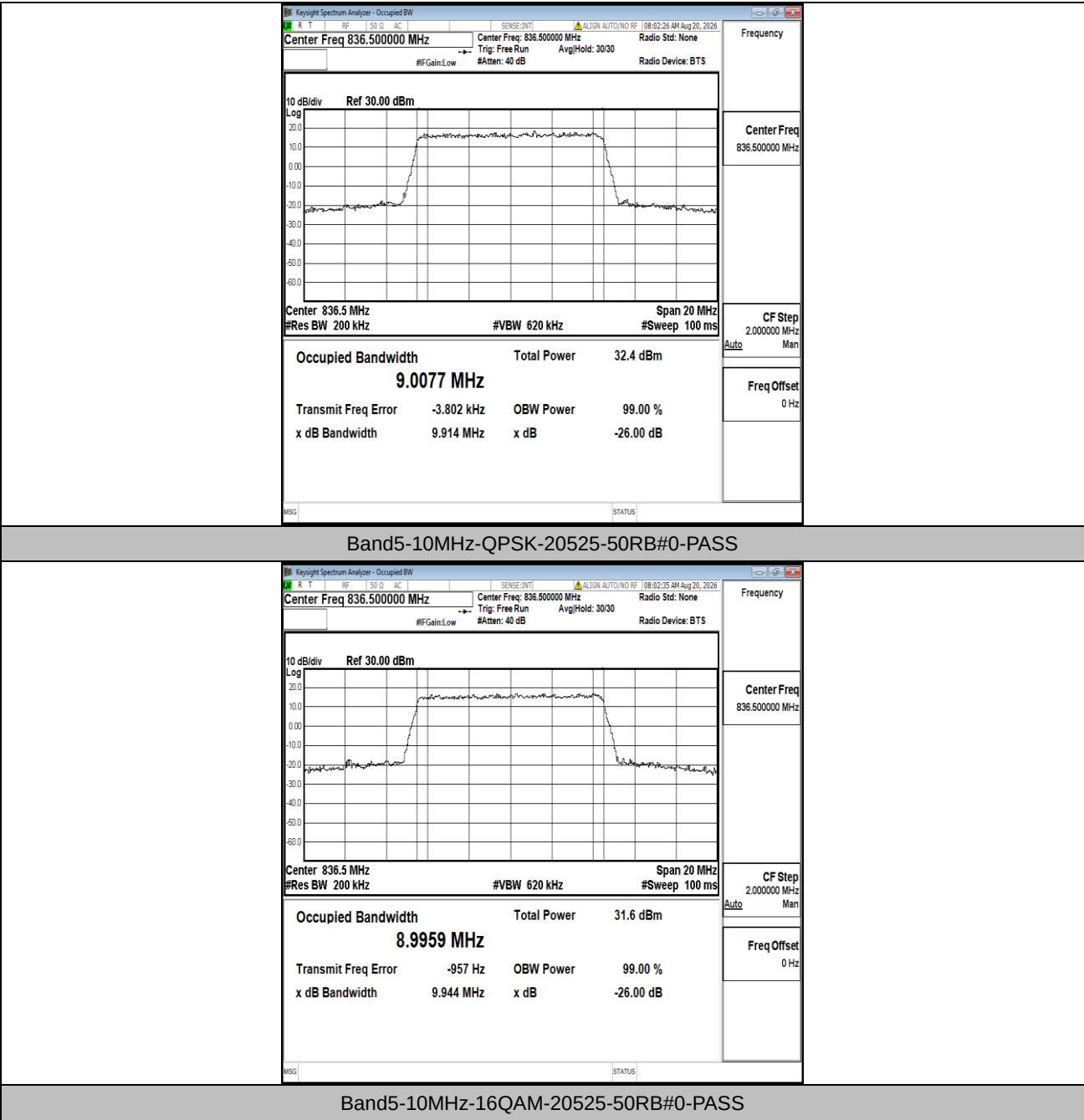


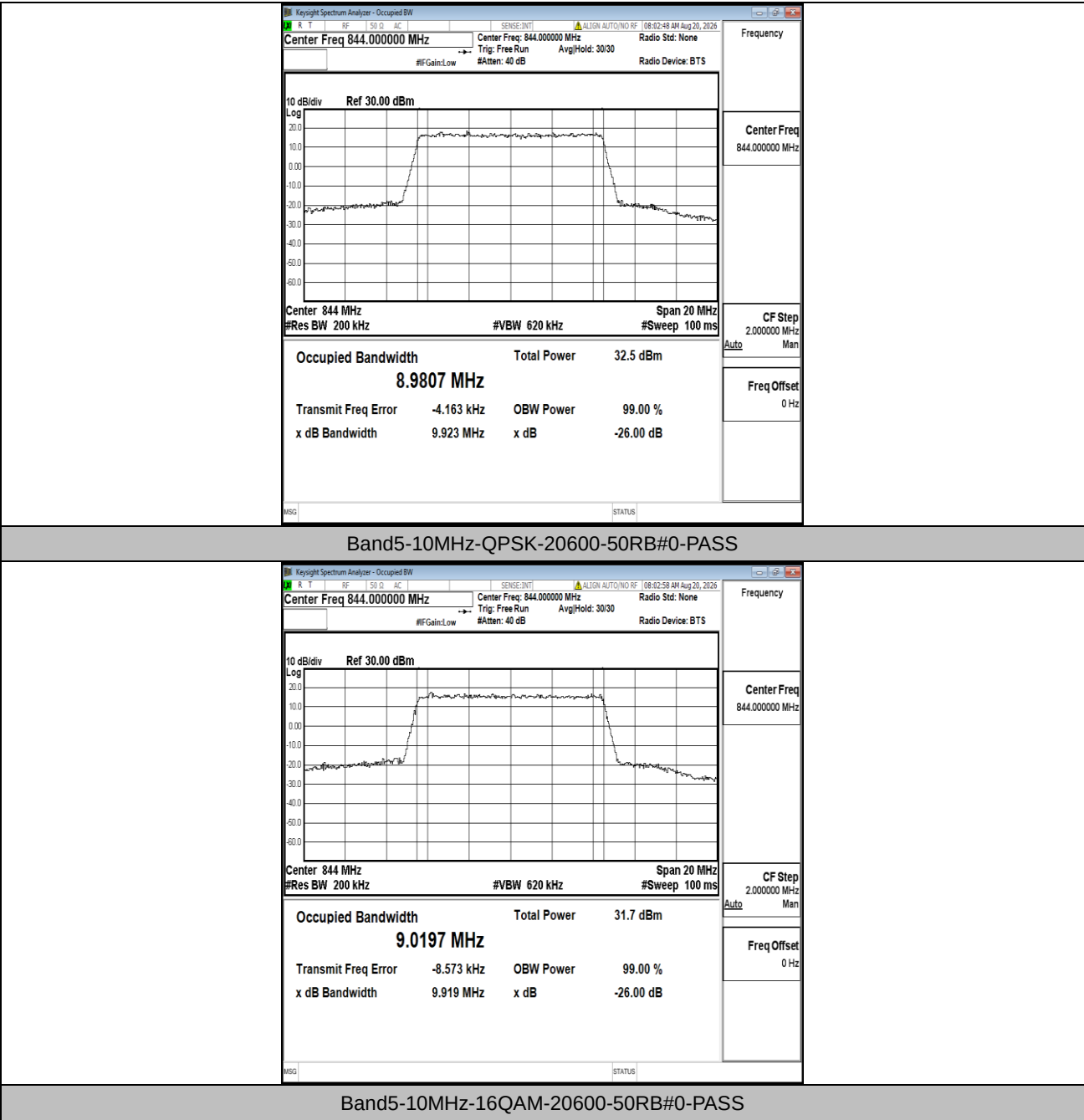
Band5-5MHz-16QAM-20425-25RB#0-PASS











H.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	824.00	-21.00	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	824.00	-21.00	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	849.00	-21.00	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	849.00	-21.00	PASS
Band5	3MHz	QPSK	20415	15RB#0	824.00	-20.00	PASS
Band5	3MHz	16QAM	20415	15RB#0	824.00	-22.00	PASS
Band5	3MHz	QPSK	20635	15RB#0	849.00	-21.00	PASS
Band5	3MHz	16QAM	20635	15RB#0	849.00	-22.00	PASS
Band5	5MHz	QPSK	20425	25RB#0	824.00	-16.00	PASS
Band5	5MHz	16QAM	20425	25RB#0	824.00	-17.00	PASS
Band5	5MHz	QPSK	20625	25RB#0	849.00	-17.00	PASS
Band5	5MHz	16QAM	20625	25RB#0	849.00	-19.00	PASS
Band5	10MHz	QPSK	20450	50RB#0	824.00	-18.00	PASS
Band5	10MHz	16QAM	20450	50RB#0	824.00	-19.00	PASS
Band5	10MHz	QPSK	20600	50RB#0	849.00	-18.00	PASS
Band5	10MHz	16QAM	20600	50RB#0	849.00	-19.00	PASS

Test Graphs

