

Appendix K: Test Data for E-UTRA Band 13

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

K.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	25.28	PASS
Band13	5MHz	QPSK	23205	1RB#12	25.28	PASS
Band13	5MHz	QPSK	23205	1RB#24	25.24	PASS
Band13	5MHz	QPSK	23205	12RB#0	24.27	PASS
Band13	5MHz	QPSK	23205	12RB#6	24.20	PASS
Band13	5MHz	QPSK	23205	12RB#13	24.21	PASS
Band13	5MHz	QPSK	23205	25RB#0	24.31	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.88	PASS
Band13	5MHz	16QAM	23205	1RB#12	24.22	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.88	PASS
Band13	5MHz	16QAM	23205	12RB#0	23.37	PASS
Band13	5MHz	16QAM	23205	12RB#6	23.33	PASS
Band13	5MHz	16QAM	23205	12RB#13	23.39	PASS
Band13	5MHz	16QAM	23205	25RB#0	23.52	PASS
Band13	5MHz	QPSK	23230	1RB#0	25.23	PASS
Band13	5MHz	QPSK	23230	1RB#12	25.26	PASS
Band13	5MHz	QPSK	23230	1RB#24	25.25	PASS
Band13	5MHz	QPSK	23230	12RB#0	24.19	PASS
Band13	5MHz	QPSK	23230	12RB#6	24.30	PASS
Band13	5MHz	QPSK	23230	12RB#13	24.30	PASS
Band13	5MHz	QPSK	23230	25RB#0	24.29	PASS
Band13	5MHz	16QAM	23230	1RB#0	24.43	PASS
Band13	5MHz	16QAM	23230	1RB#12	24.91	PASS
Band13	5MHz	16QAM	23230	1RB#24	24.43	PASS
Band13	5MHz	16QAM	23230	12RB#0	23.53	PASS
Band13	5MHz	16QAM	23230	12RB#6	23.46	PASS
Band13	5MHz	16QAM	23230	12RB#13	23.55	PASS
Band13	5MHz	16QAM	23230	25RB#0	23.40	PASS
Band13	5MHz	QPSK	23255	1RB#0	25.55	PASS
Band13	5MHz	QPSK	23255	1RB#12	25.57	PASS
Band13	5MHz	QPSK	23255	1RB#24	25.55	PASS
Band13	5MHz	QPSK	23255	12RB#0	24.29	PASS
Band13	5MHz	QPSK	23255	12RB#6	24.18	PASS
Band13	5MHz	QPSK	23255	12RB#13	24.30	PASS
Band13	5MHz	QPSK	23255	25RB#0	24.30	PASS
Band13	5MHz	16QAM	23255	1RB#0	24.02	PASS
Band13	5MHz	16QAM	23255	1RB#12	24.39	PASS

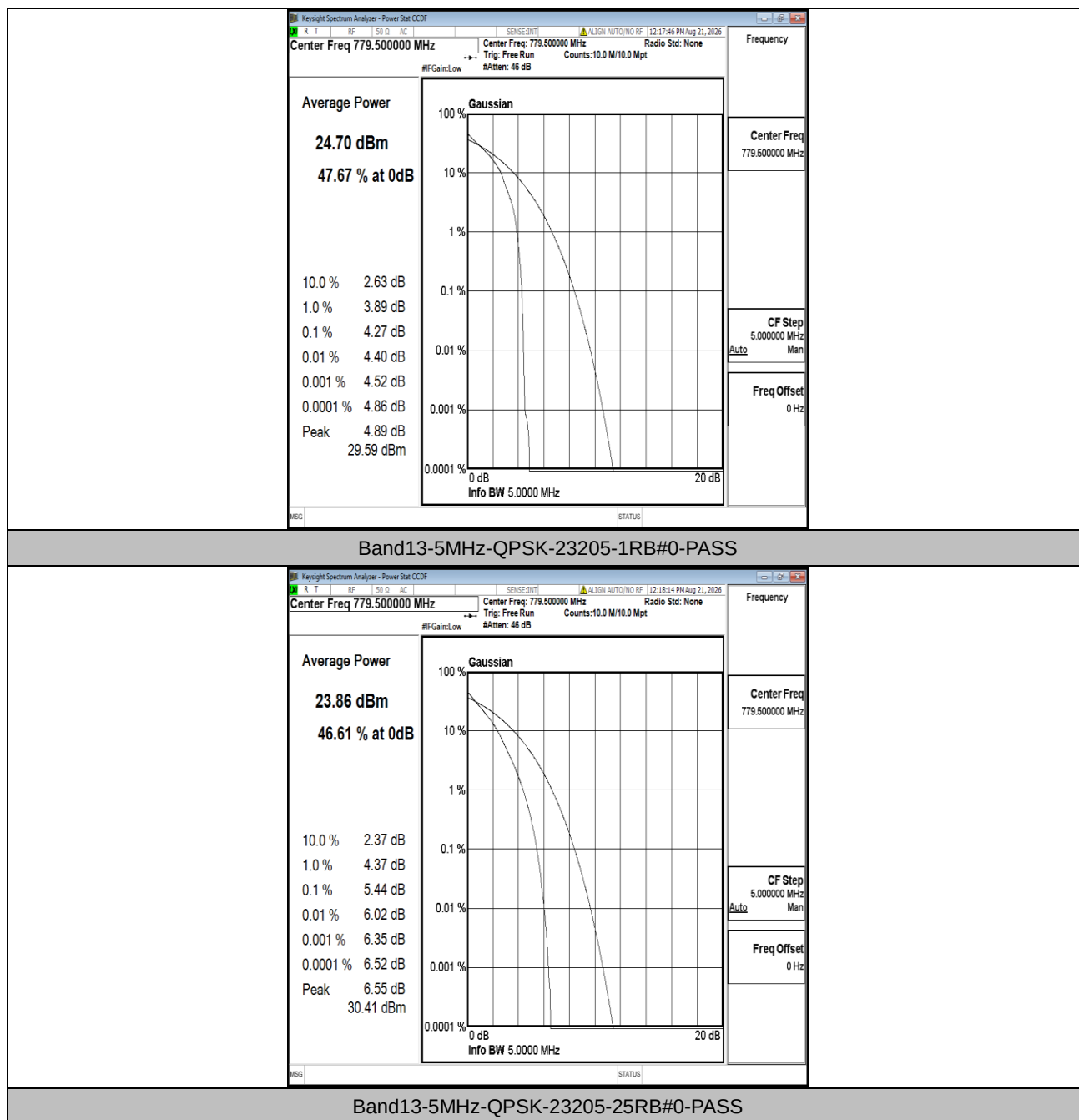
Band13	5MHz	16QAM	23255	1RB#24	24.05	PASS
Band13	5MHz	16QAM	23255	12RB#0	23.35	PASS
Band13	5MHz	16QAM	23255	12RB#6	23.25	PASS
Band13	5MHz	16QAM	23255	12RB#13	23.29	PASS
Band13	5MHz	16QAM	23255	25RB#0	23.42	PASS
Band13	10MHz	QPSK	23230	1RB#0	25.24	PASS
Band13	10MHz	QPSK	23230	1RB#24	25.30	PASS
Band13	10MHz	QPSK	23230	1RB#49	25.22	PASS
Band13	10MHz	QPSK	23230	25RB#0	24.41	PASS
Band13	10MHz	QPSK	23230	25RB#12	24.25	PASS
Band13	10MHz	QPSK	23230	25RB#25	24.29	PASS
Band13	10MHz	QPSK	23230	50RB#0	24.43	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.97	PASS
Band13	10MHz	16QAM	23230	1RB#24	24.99	PASS
Band13	10MHz	16QAM	23230	1RB#49	24.04	PASS
Band13	10MHz	16QAM	23230	25RB#0	23.40	PASS
Band13	10MHz	16QAM	23230	25RB#12	23.32	PASS
Band13	10MHz	16QAM	23230	25RB#25	23.42	PASS
Band13	10MHz	16QAM	23230	50RB#0	23.39	PASS

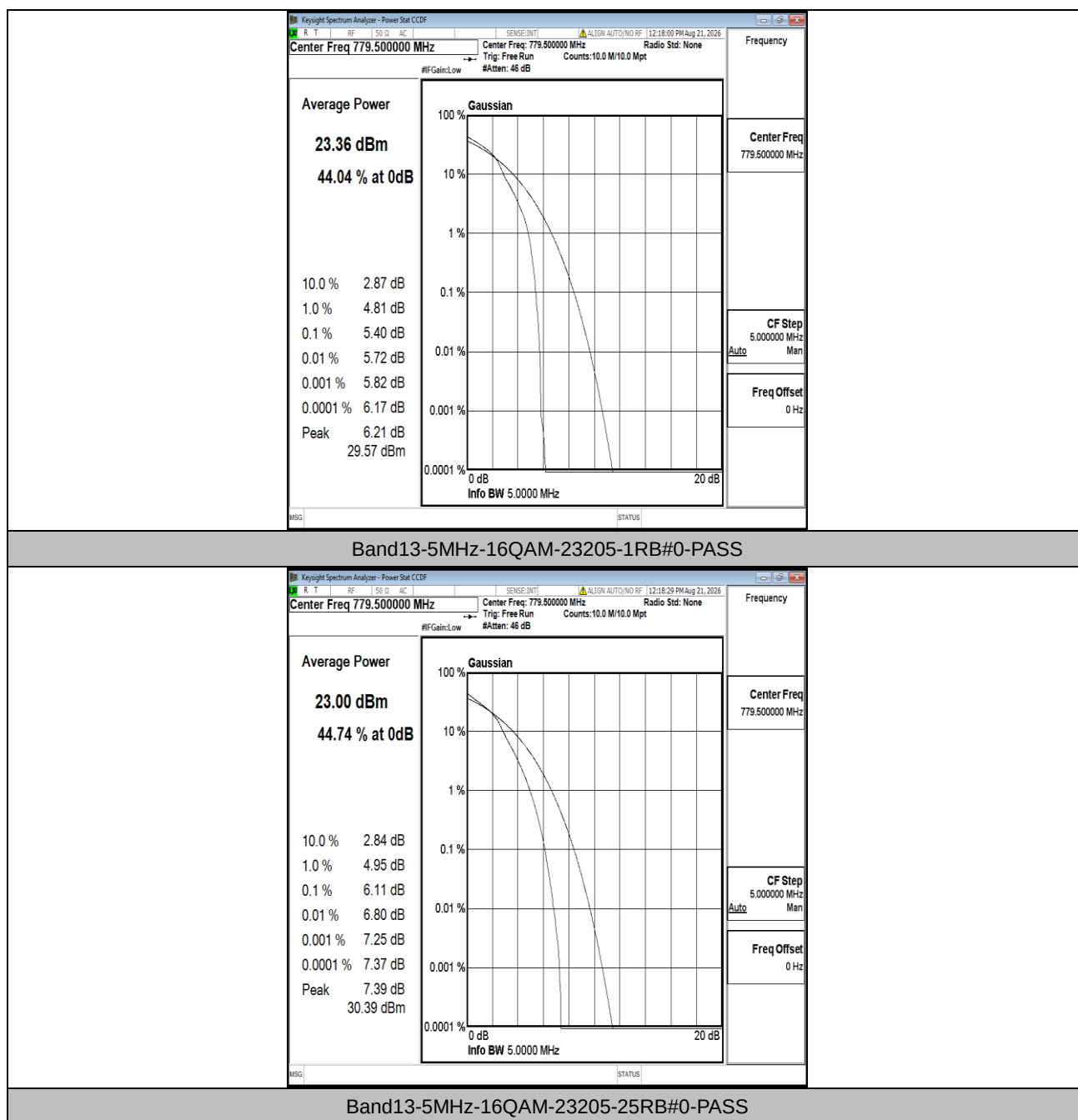
K.2 Peak-to-Average Ratio(CCDF)

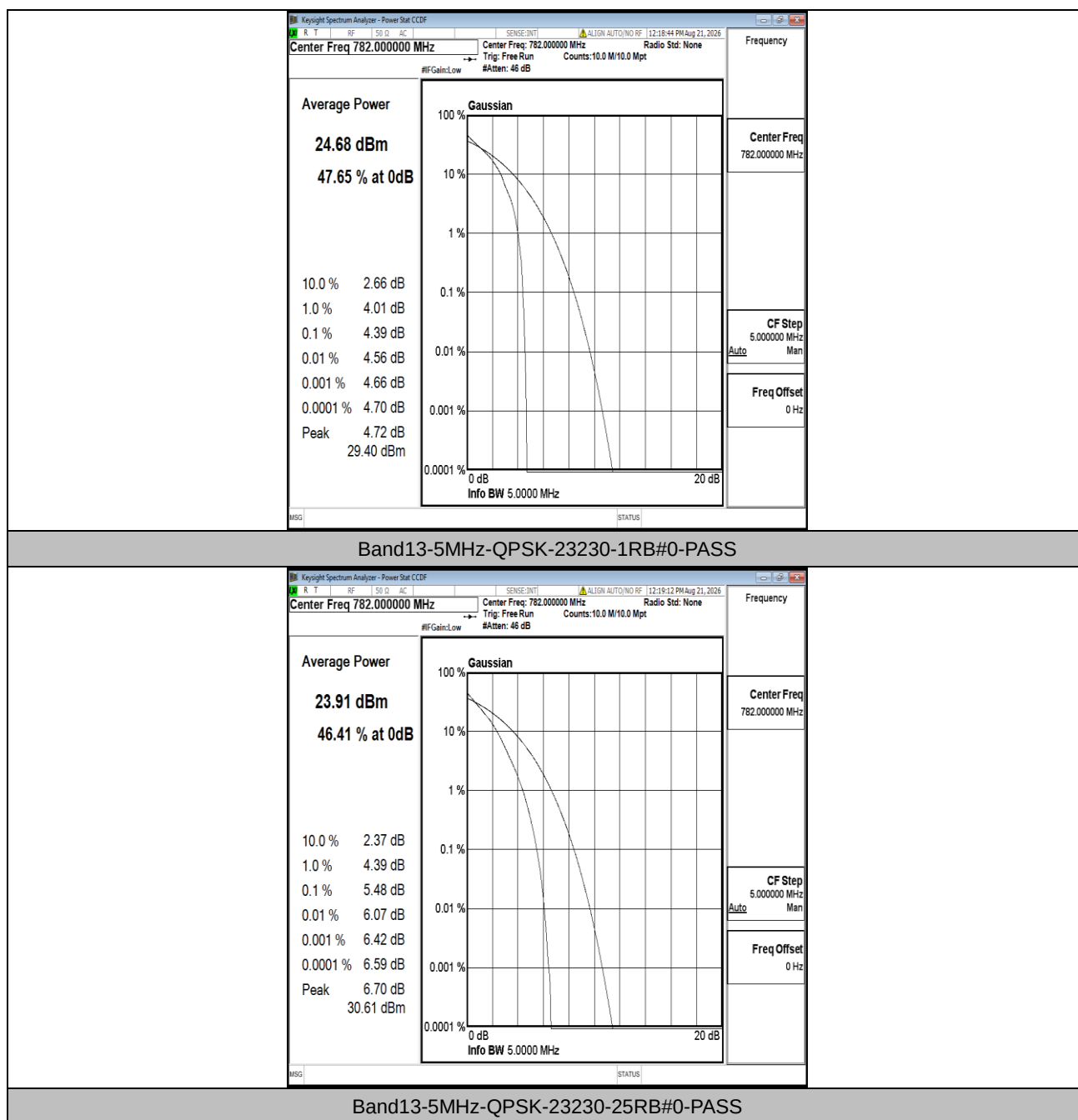
Test Result

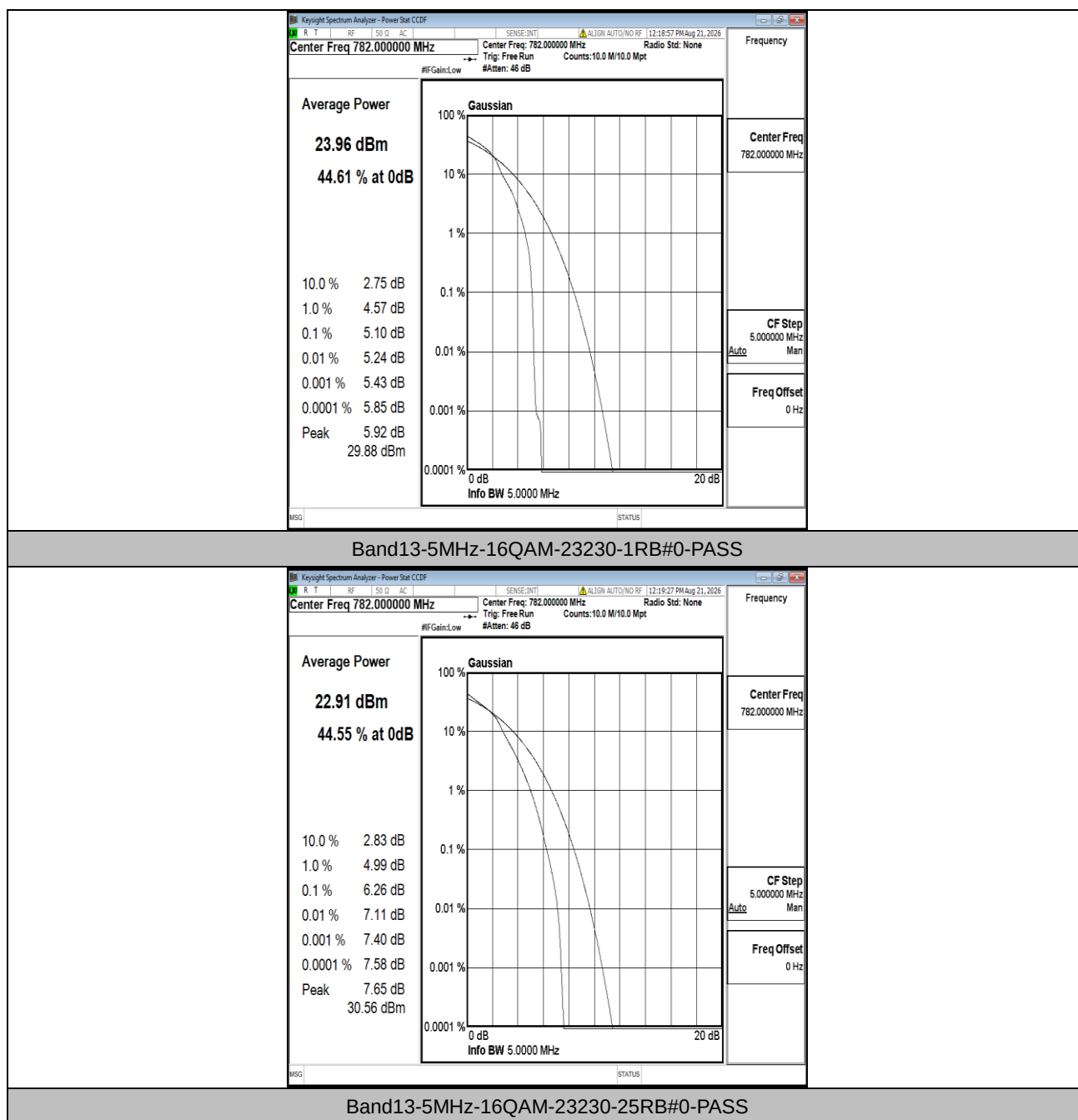
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.27	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.44	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.40	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.11	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.39	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.48	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.10	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.26	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.31	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.54	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.43	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.24	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.95	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.48	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.96	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.26	13	PASS

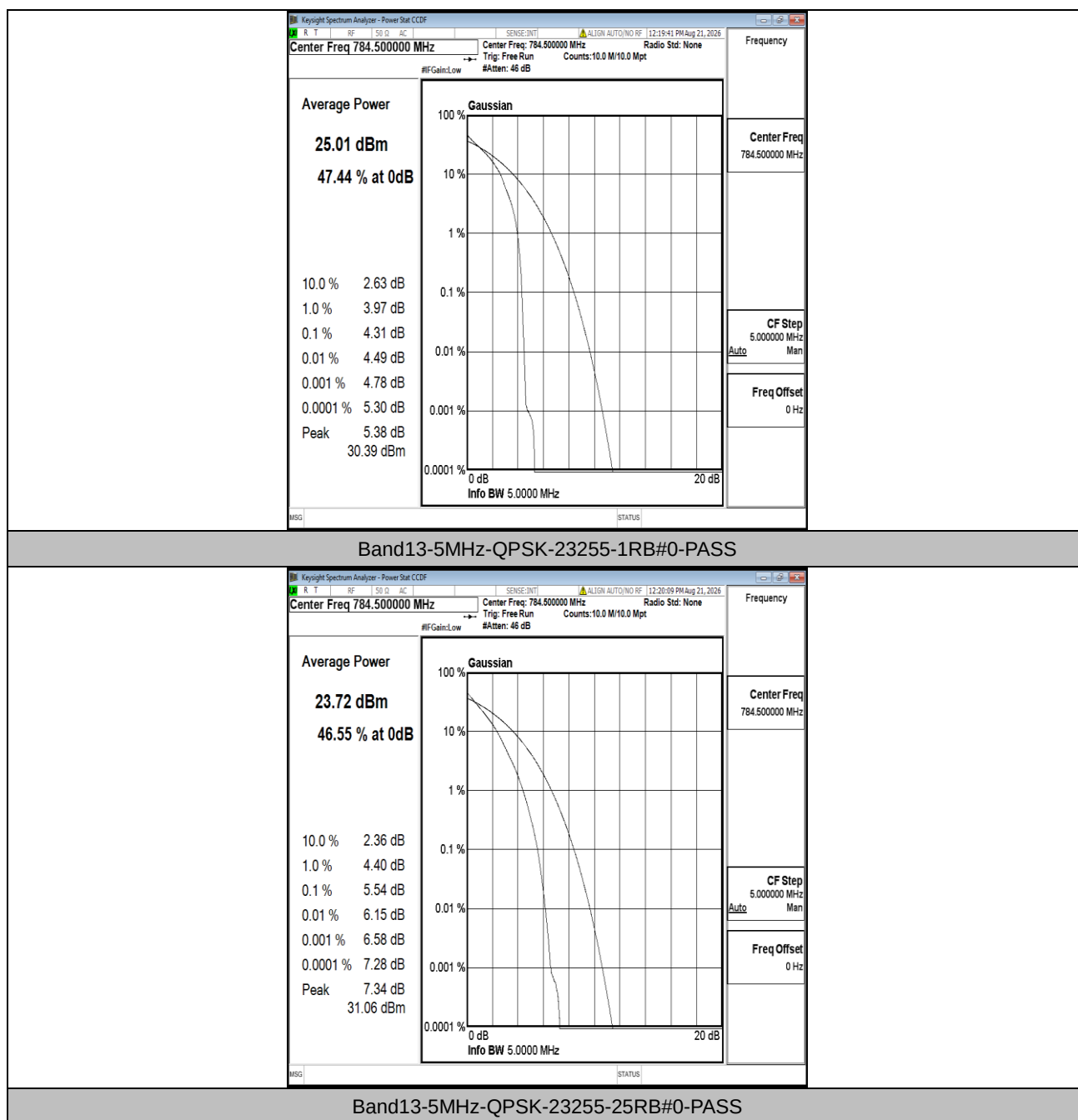
Test Graphs

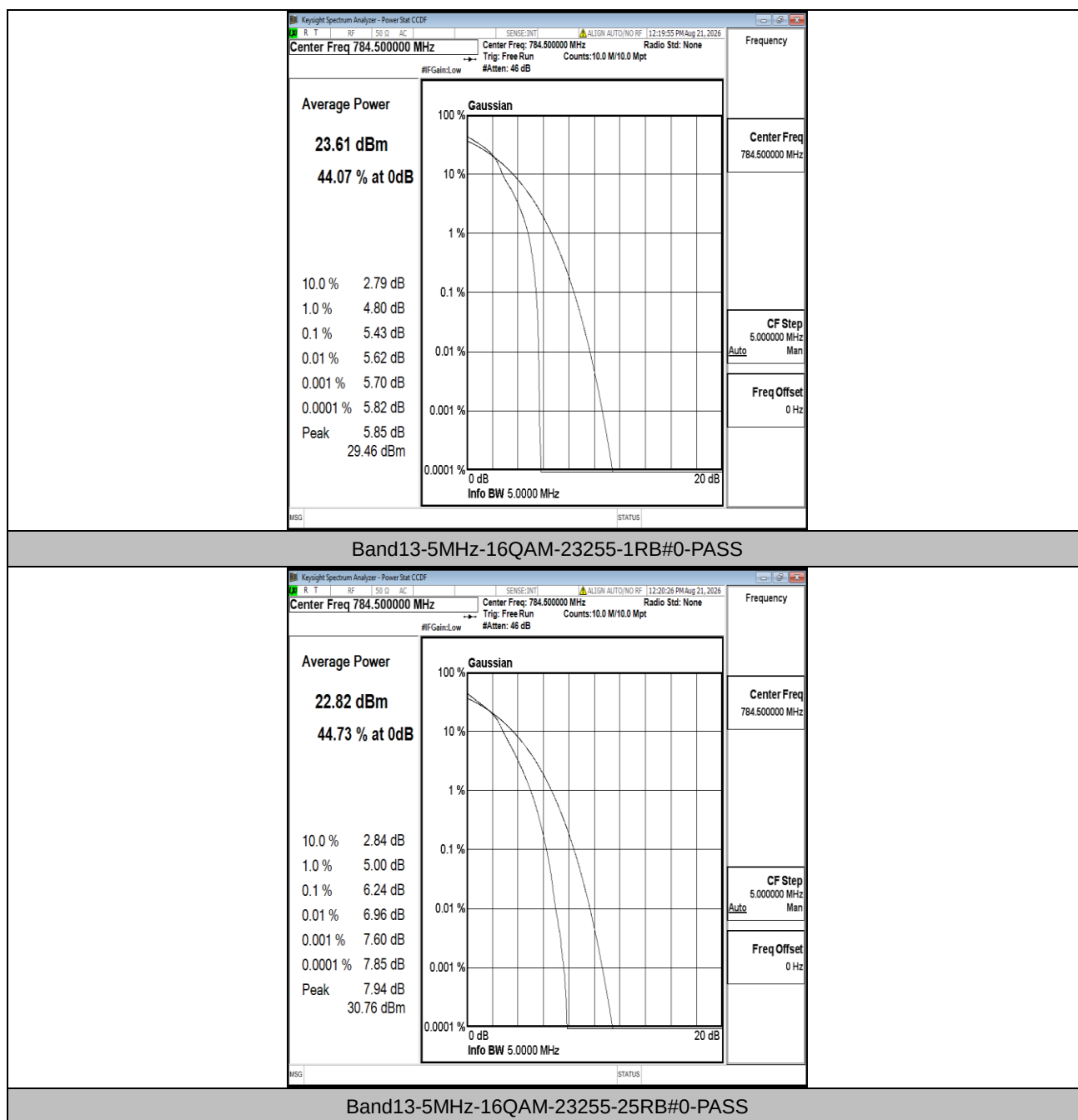


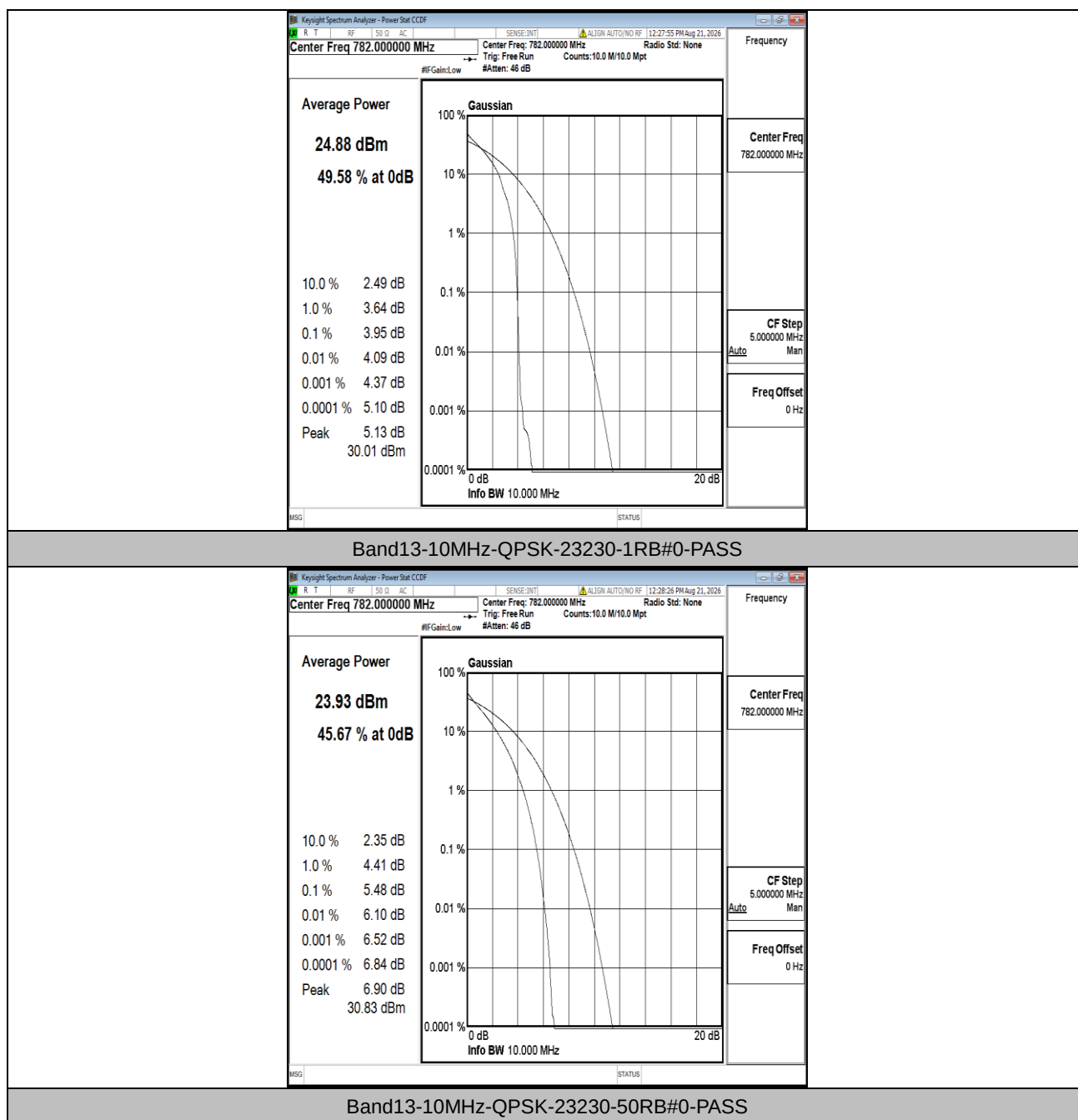


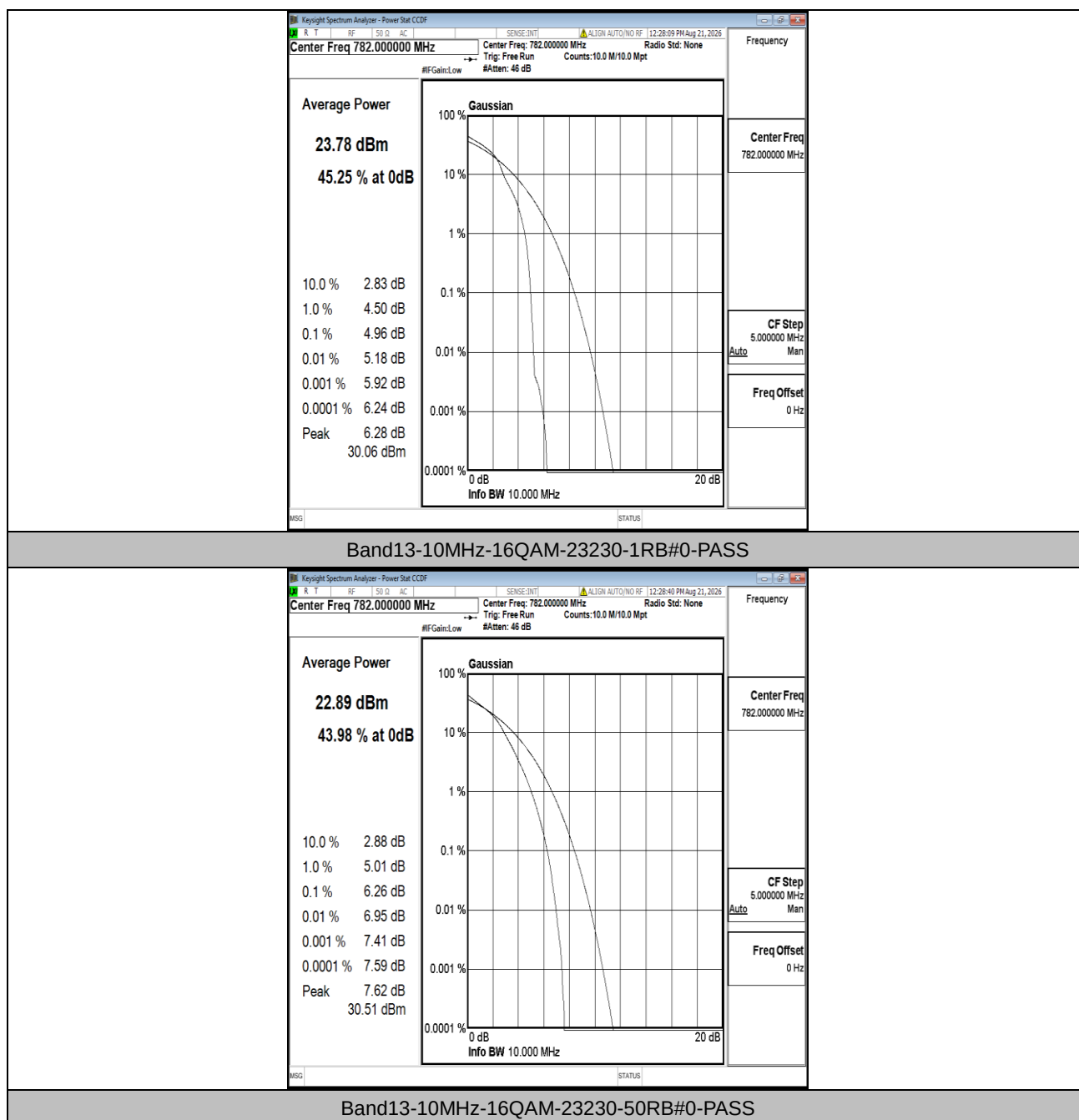










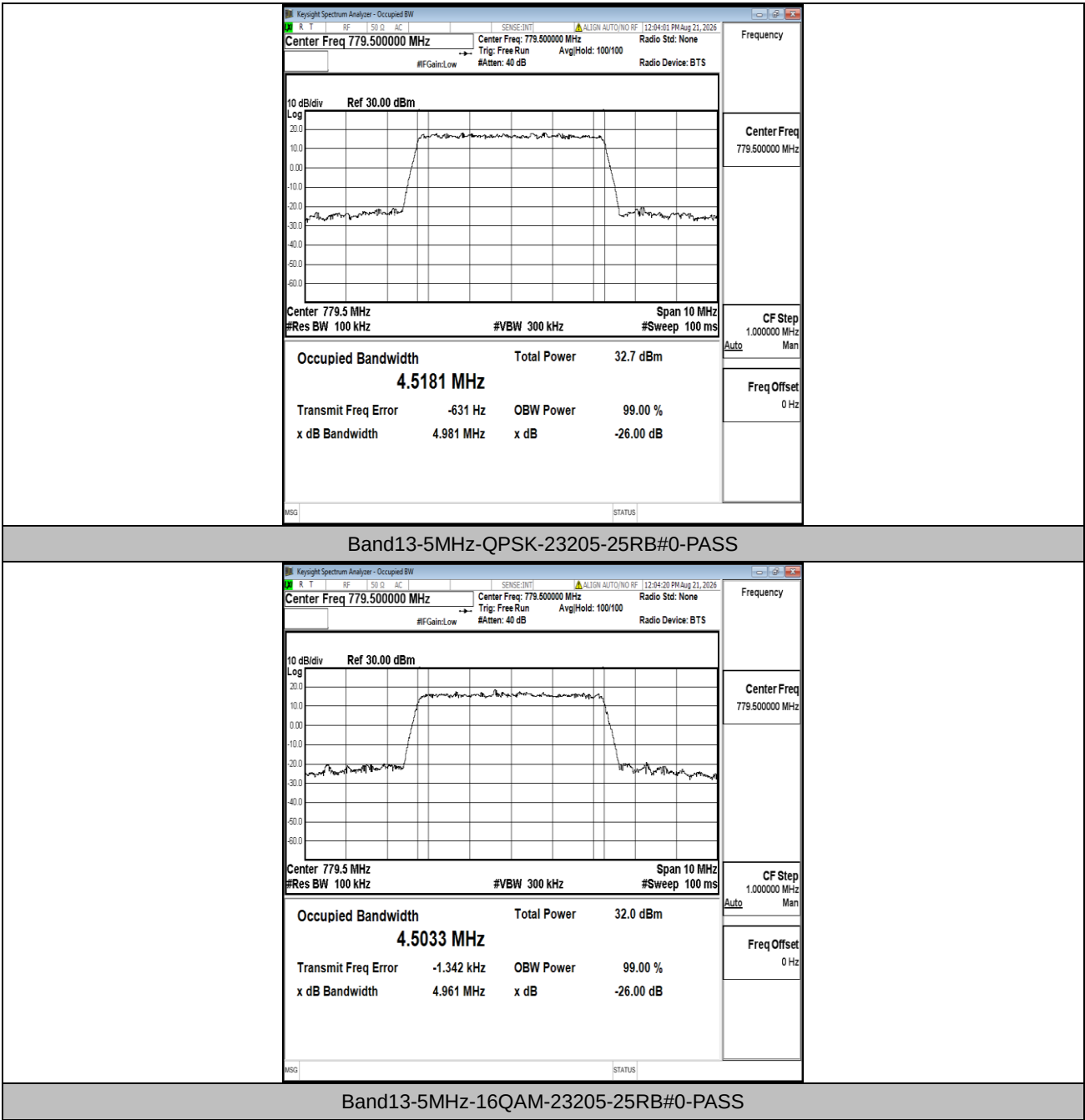


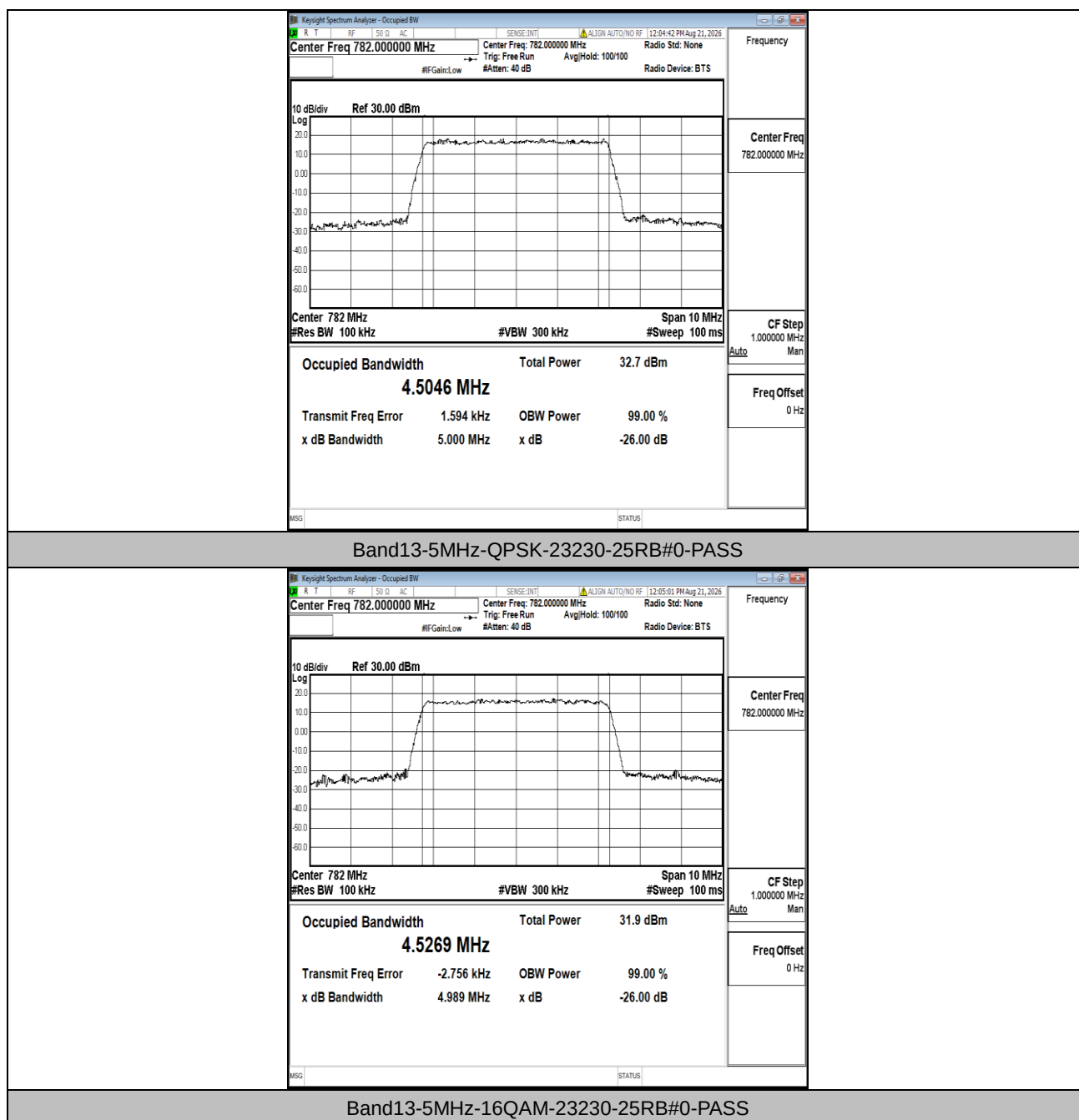
K.3 26dB Bandwidth and Occupied Bandwidth

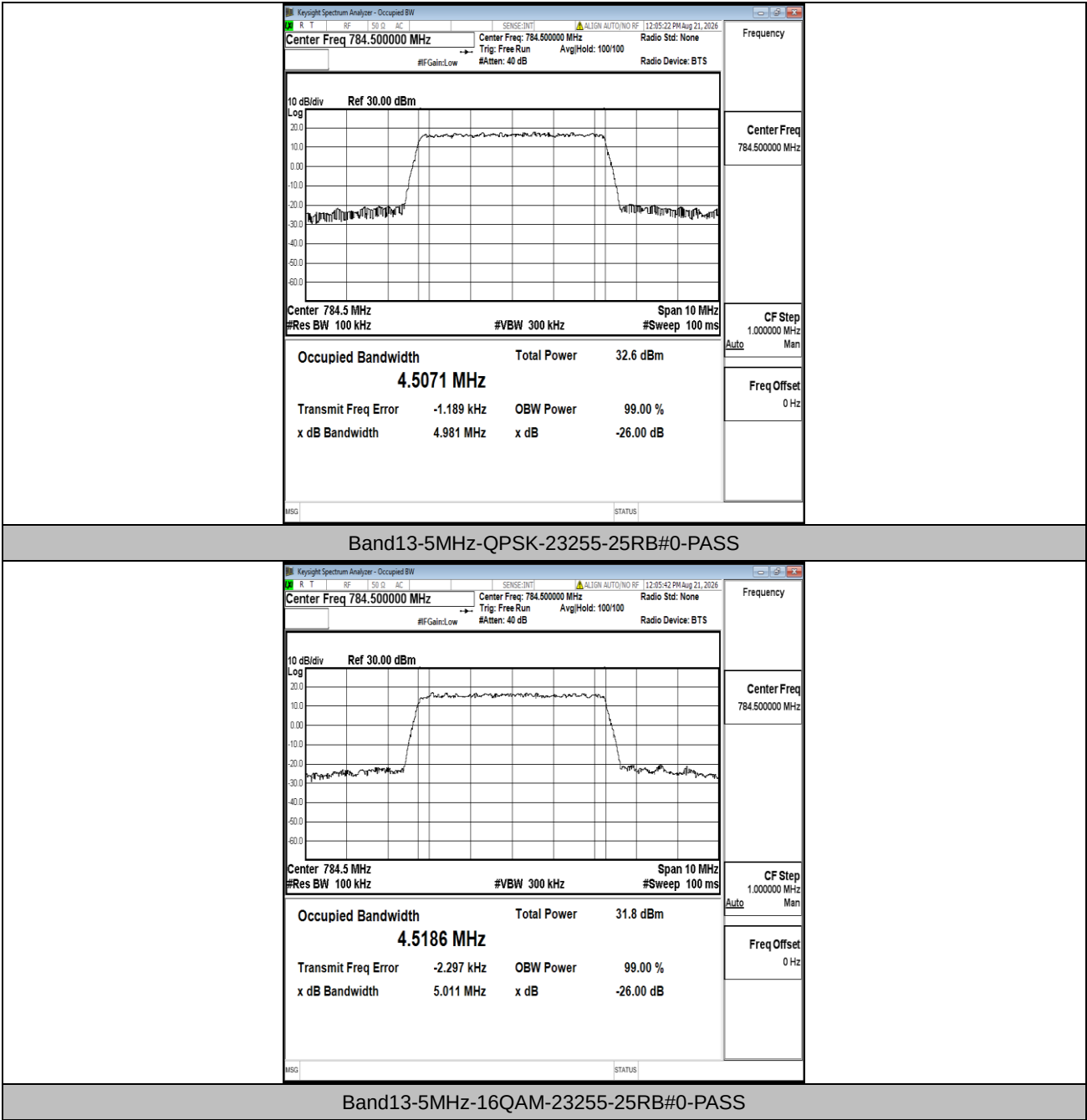
Test Result

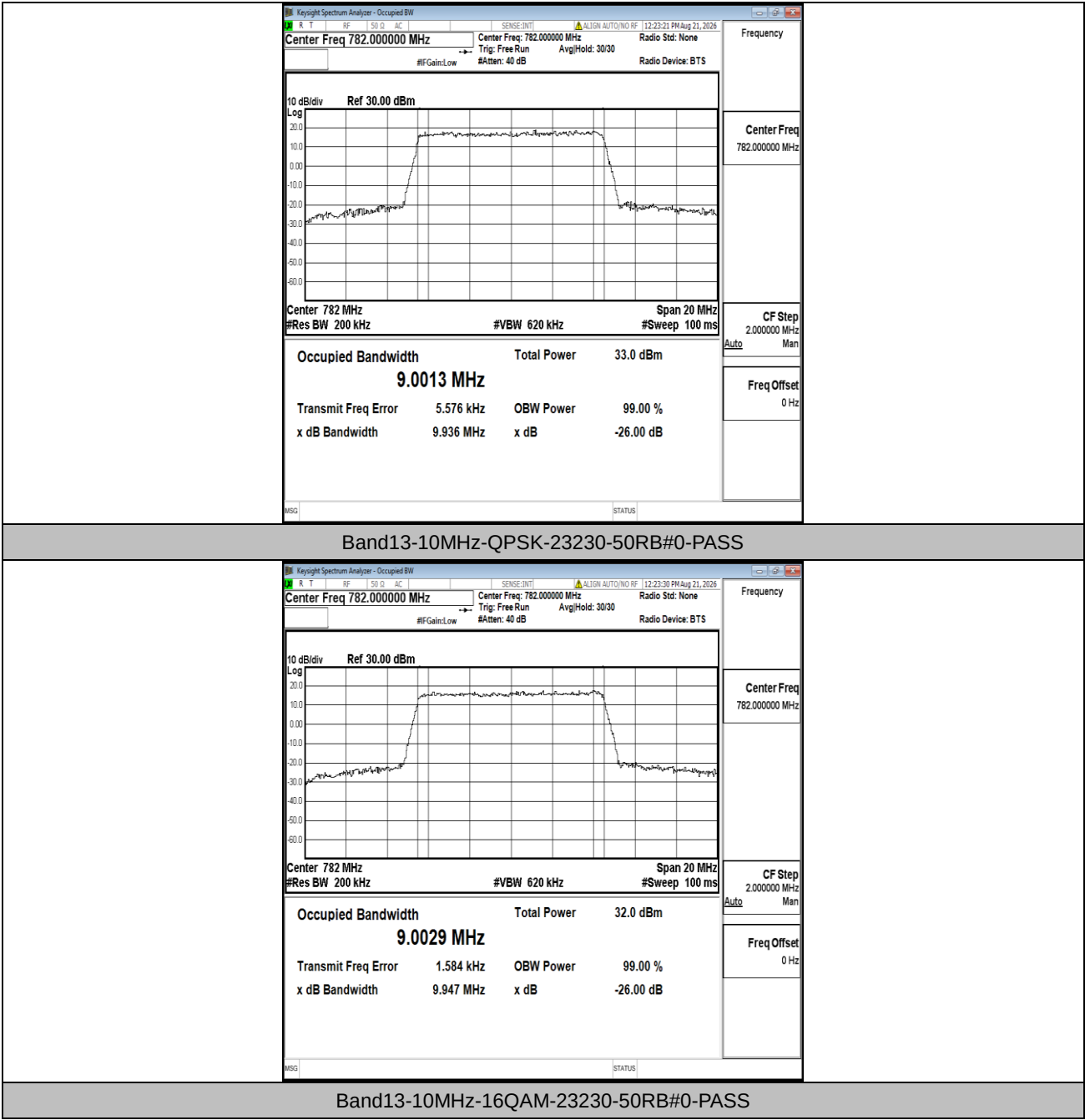
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5181	4.981	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5033	4.961	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5046	5.000	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5269	4.989	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5071	4.981	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5186	5.011	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0013	9.936	PASS
Band13	10MHz	16QAM	23230	50RB#0	9.0029	9.947	PASS

Test Graphs







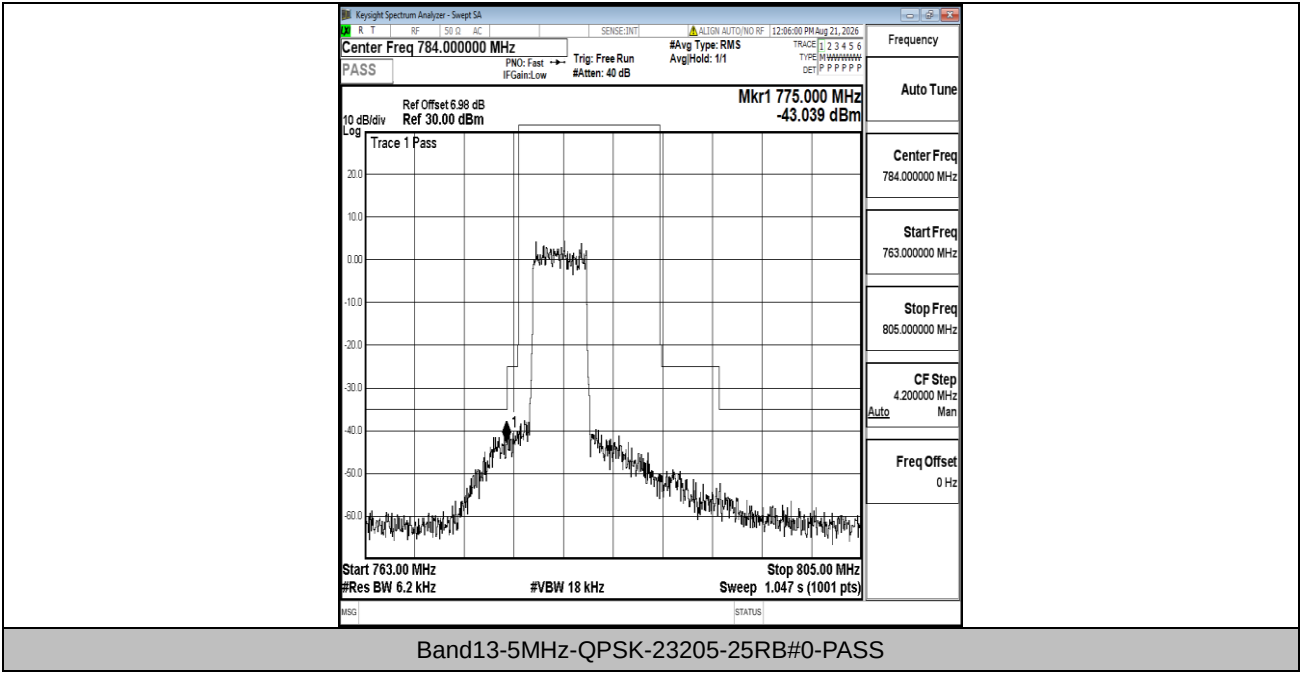


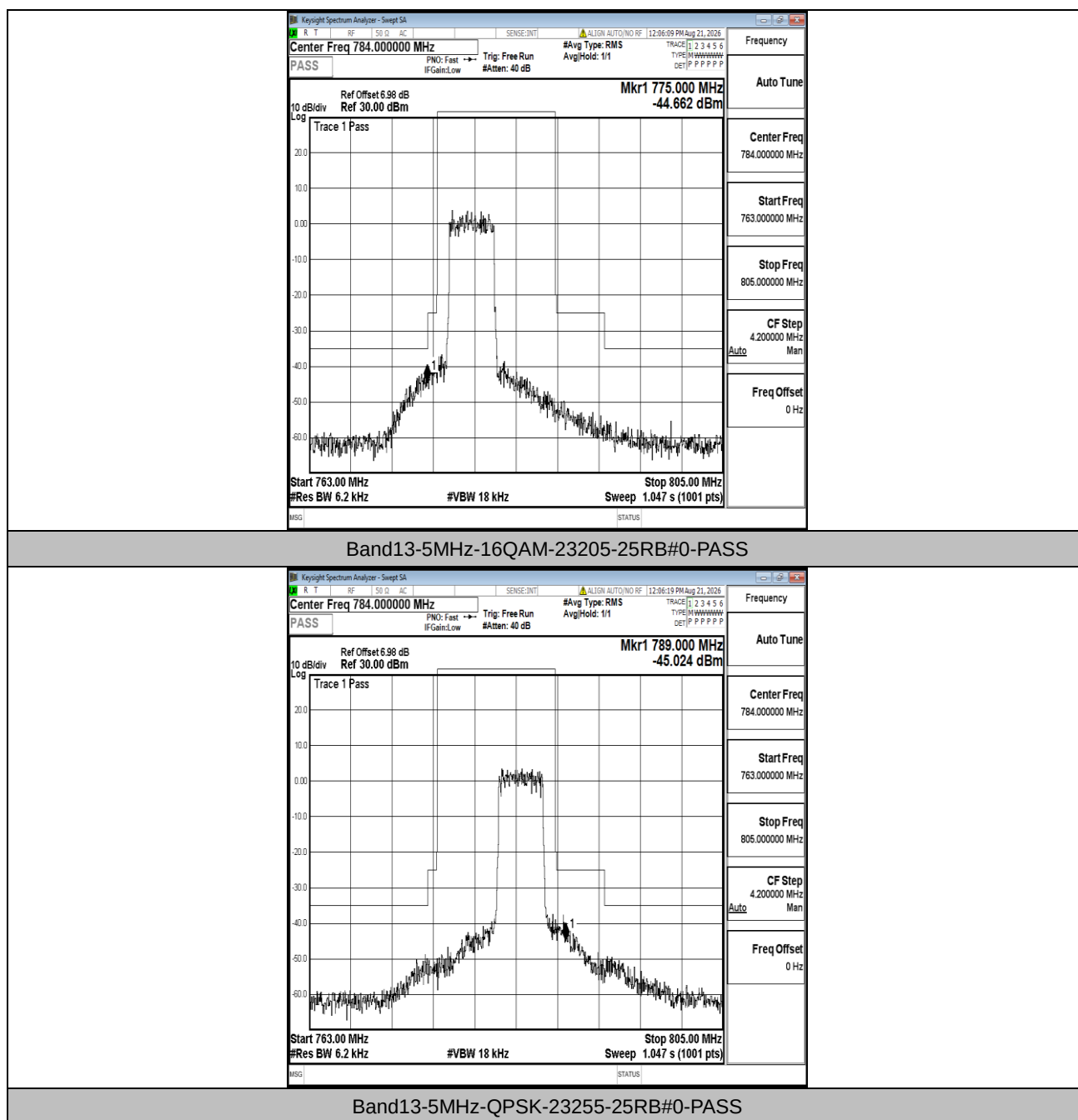
K.4 Band Edge

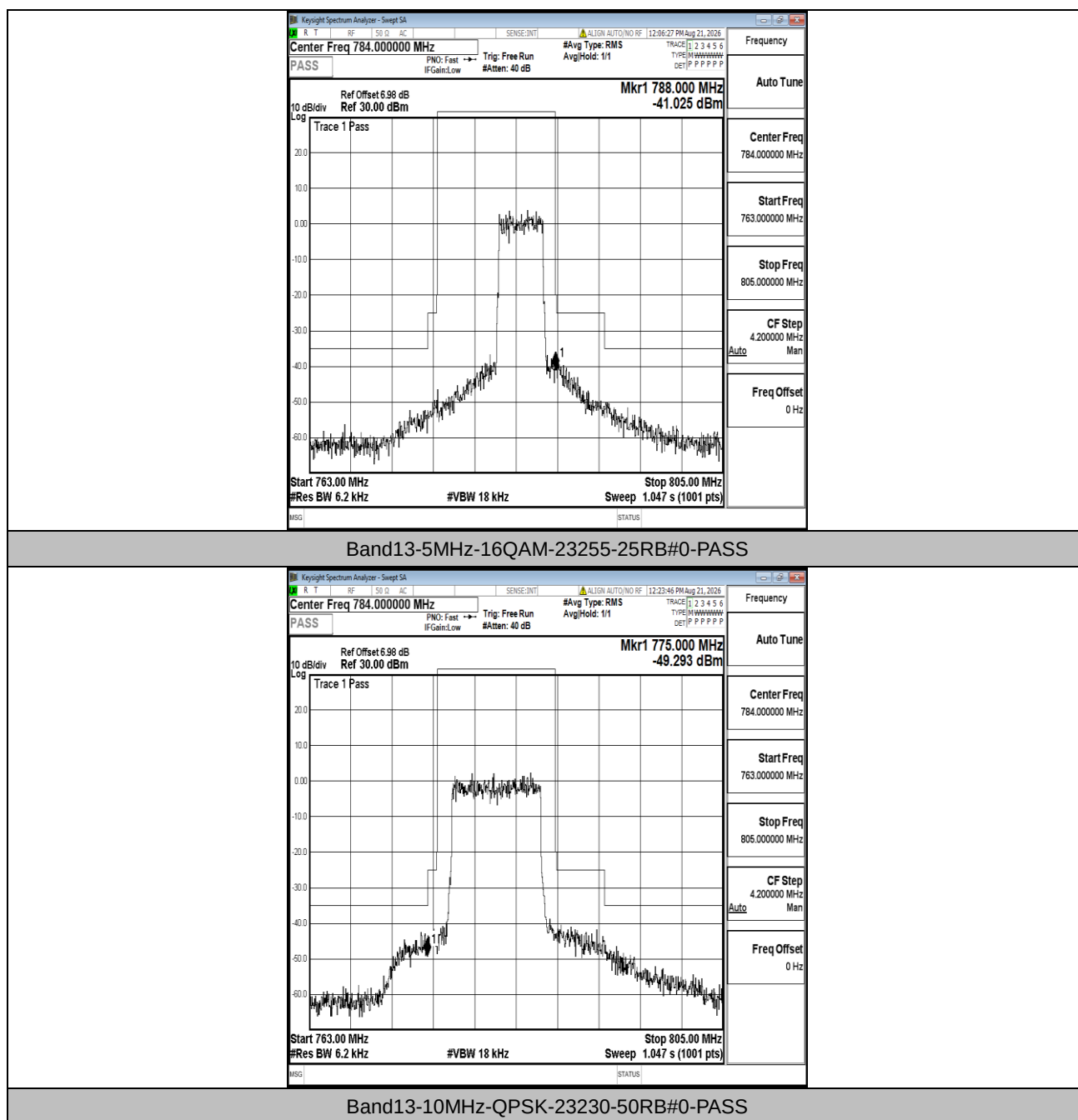
Test Result

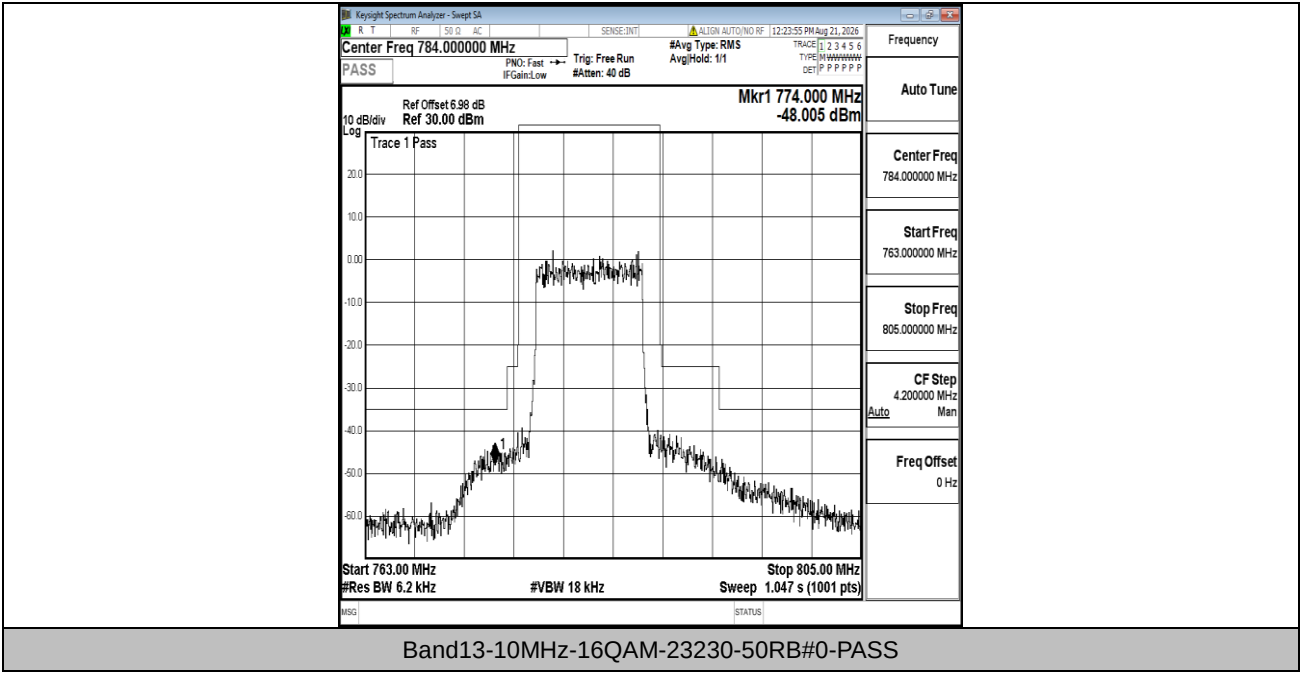
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frenquency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	775.00	-39.00	PASS
Band13	5MHz	16QAM	23205	25RB#0	775.00	-42.00	PASS
Band13	5MHz	QPSK	23255	25RB#0	789.00	-38.00	PASS
Band13	5MHz	16QAM	23255	25RB#0	788.00	-38.00	PASS
Band13	10MHz	QPSK	23230	50RB#0	775.00	-43.00	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.00	-43.00	PASS

Test Graphs









K.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-56.63	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-27.89	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-53.21	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-38.00	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-35.06	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-55.62	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-24.73	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-52.98	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-37.40	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-34.59	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-57.49	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-27.29	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-53.47	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-37.86	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-34.65	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-56.09	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-26.36	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-52.89	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-38.15	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-35.29	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-58.03	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-29.25	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-52.73	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-38.45	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-35.31	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-56.18	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-30.04	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-53.01	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-38.66	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-35.05	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-54.87	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-25.86	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-51.31	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-34.47	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-34.84	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-51.63	PASS

Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-24.95	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-52.95	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-33.73	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-34.95	PASS

Test Graphs

