

Appendix-A LTE Cat M1 Band 26

(814-824)

Transmitter Conducted Output Power for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Power (dBm)	Limit (dBm)	Verdict
Band26(814-824)	1.4MHz	QPSK	26697	1	0	Low	21.28	50	PASS
Band26(814-824)	1.4MHz	QPSK	26697	1	5	Low	20.93	50	PASS
Band26(814-824)	1.4MHz	QPSK	26697	6	0	Low	19.07	50	PASS
Band26(814-824)	1.4MHz	QPSK	26740	1	0	Low	21.27	50	PASS
Band26(814-824)	1.4MHz	QPSK	26740	1	5	Low	21.05	50	PASS
Band26(814-824)	1.4MHz	QPSK	26740	6	0	Low	19.17	50	PASS
Band26(814-824)	1.4MHz	QPSK	26783	1	0	High	21.25	50	PASS
Band26(814-824)	1.4MHz	QPSK	26783	1	5	High	20.84	50	PASS
Band26(814-824)	1.4MHz	QPSK	26783	6	0	High	19.07	50	PASS
Band26(814-824)	3MHz	QPSK	26705	1	0	Low	21.26	50	PASS
Band26(814-824)	3MHz	QPSK	26705	1	5	Low	20.95	50	PASS
Band26(814-824)	3MHz	QPSK	26705	6	0	Low	19.17	50	PASS
Band26(814-824)	3MHz	QPSK	26740	1	0	Low	21.32	50	PASS
Band26(814-824)	3MHz	QPSK	26740	1	5	Low	21.00	50	PASS
Band26(814-824)	3MHz	QPSK	26740	6	0	Low	19.14	50	PASS
Band26(814-824)	3MHz	QPSK	26775	1	0	High	21.10	50	PASS
Band26(814-824)	3MHz	QPSK	26775	1	5	High	20.79	50	PASS
Band26(814-824)	3MHz	QPSK	26775	6	0	High	19.04	50	PASS
Band26(814-824)	5MHz	QPSK	26715	1	0	Low	21.32	50	PASS
Band26(814-824)	5MHz	QPSK	26715	1	5	Low	21.00	50	PASS
Band26(814-824)	5MHz	QPSK	26715	6	0	Low	20.25	50	PASS
Band26(814-824)	5MHz	QPSK	26740	1	0	Low	21.41	50	PASS
Band26(814-824)	5MHz	QPSK	26740	1	5	Low	20.92	50	PASS
Band26(814-824)	5MHz	QPSK	26740	6	0	Low	20.22	50	PASS
Band26(814-824)	5MHz	QPSK	26785	1	0	High	21.20	50	PASS
Band26(814-824)	5MHz	QPSK	26785	1	5	High	20.90	50	PASS
Band26(814-824)	5MHz	QPSK	26785	6	0	High	20.12	50	PASS
Band26(814-824)	1.4MHz	16QAM	26697	1	0	Low	20.39	50	PASS
Band26(814-824)	1.4MHz	16QAM	26697	1	5	Low	19.84	50	PASS
Band26(814-824)	1.4MHz	16QAM	26697	5	0	Low	19.40	50	PASS
Band26(814-824)	1.4MHz	16QAM	26740	1	0	Low	20.35	50	PASS
Band26(814-824)	1.4MHz	16QAM	26740	1	5	Low	19.94	50	PASS
Band26(814-824)	1.4MHz	16QAM	26740	5	0	Low	19.44	50	PASS
Band26(814-824)	1.4MHz	16QAM	26783	1	0	High	20.06	50	PASS

Band26(814-824)	1.4MHz	16QAM	26783	1	5	High	19.75	50	PASS
Band26(814-824)	1.4MHz	16QAM	26783	5	0	High	19.27	50	PASS
Band26(814-824)	3MHz	16QAM	26705	1	0	Low	20.28	50	PASS
Band26(814-824)	3MHz	16QAM	26705	1	5	Low	19.84	50	PASS
Band26(814-824)	3MHz	16QAM	26705	5	0	Low	19.44	50	PASS
Band26(814-824)	3MHz	16QAM	26740	1	0	Low	20.34	50	PASS
Band26(814-824)	3MHz	16QAM	26740	1	5	Low	20.01	50	PASS
Band26(814-824)	3MHz	16QAM	26740	5	0	Low	19.43	50	PASS
Band26(814-824)	3MHz	16QAM	26775	1	0	High	20.18	50	PASS
Band26(814-824)	3MHz	16QAM	26775	1	5	High	19.81	50	PASS
Band26(814-824)	3MHz	16QAM	26775	5	0	High	19.28	50	PASS
Band26(814-824)	5MHz	16QAM	26715	1	0	Low	21.53	50	PASS
Band26(814-824)	5MHz	16QAM	26715	1	5	Low	21.21	50	PASS
Band26(814-824)	5MHz	16QAM	26715	5	0	Low	20.35	50	PASS
Band26(814-824)	5MHz	16QAM	26740	1	0	Low	21.63	50	PASS
Band26(814-824)	5MHz	16QAM	26740	1	5	Low	21.17	50	PASS
Band26(814-824)	5MHz	16QAM	26740	5	0	Low	20.34	50	PASS
Band26(814-824)	5MHz	16QAM	26785	1	0	High	21.36	50	PASS
Band26(814-824)	5MHz	16QAM	26785	1	5	High	21.07	50	PASS
Band26(814-824)	5MHz	16QAM	26785	5	0	High	20.08	50	PASS
Band26(814-824)	10MHz	QPSK	26740	1	0	Low	21.50	50	PASS
Band26(814-824)	10MHz	QPSK	26740	1	5	Low	21.21	50	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	20.39	50	PASS
Band26(814-824)	10MHz	16QAM	26740	1	0	Low	21.93	50	PASS
Band26(814-824)	10MHz	16QAM	26740	1	5	Low	21.31	50	PASS
Band26(814-824)	10MHz	16QAM	26740	5	0	Low	21.40	50	PASS

Peak-to-Average Ratio(CCDF) for M1**Test Result**

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	5.37	<=13	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	High	5.04	<=13	PASS
Band26(814-824)	10MHz	16QAM	26740	5	0	Low	5.36	<=13	PASS
Band26(814-824)	10MHz	16QAM	26740	5	0	High	5.26	<=13	PASS

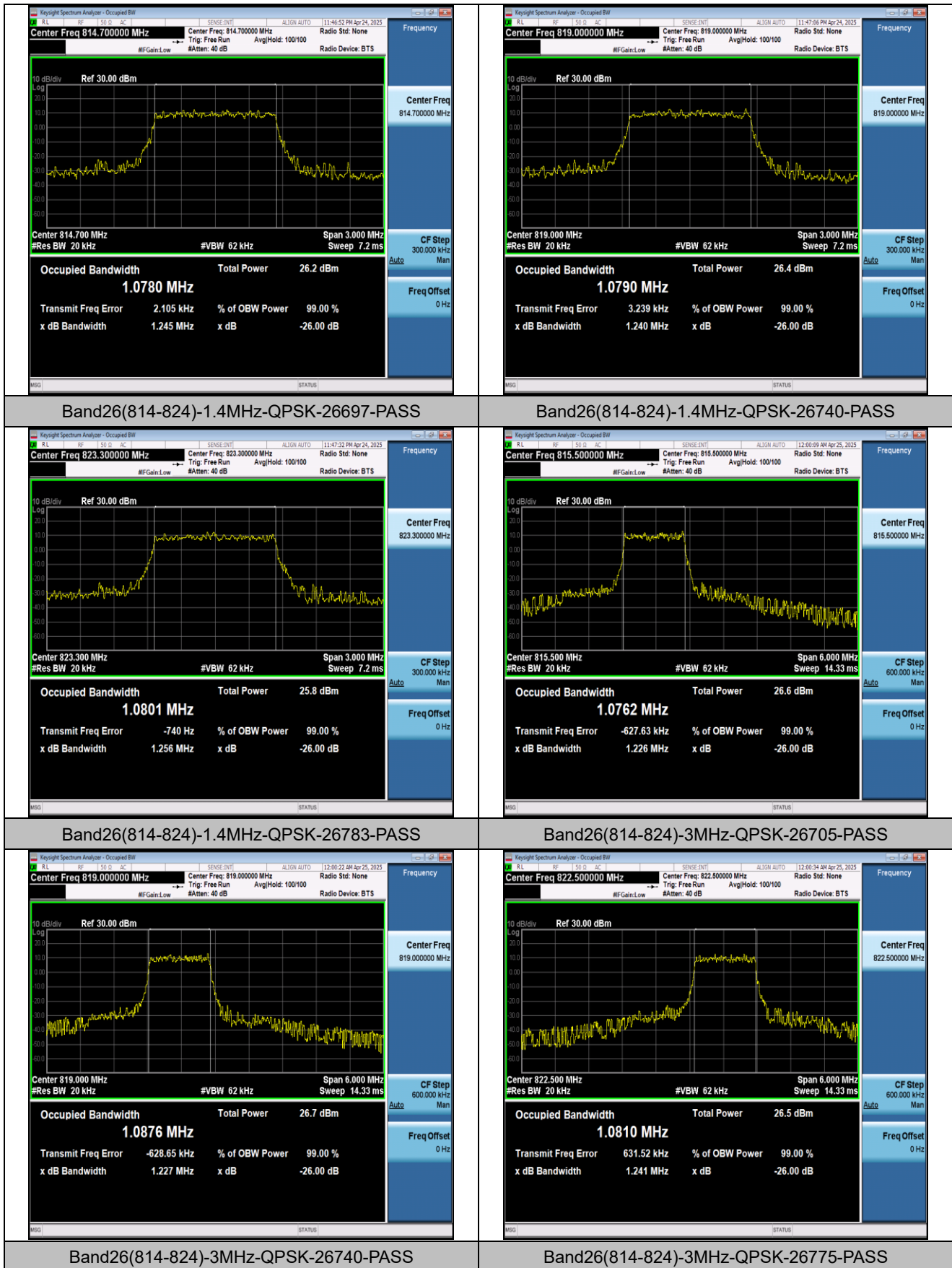
Test Graphs

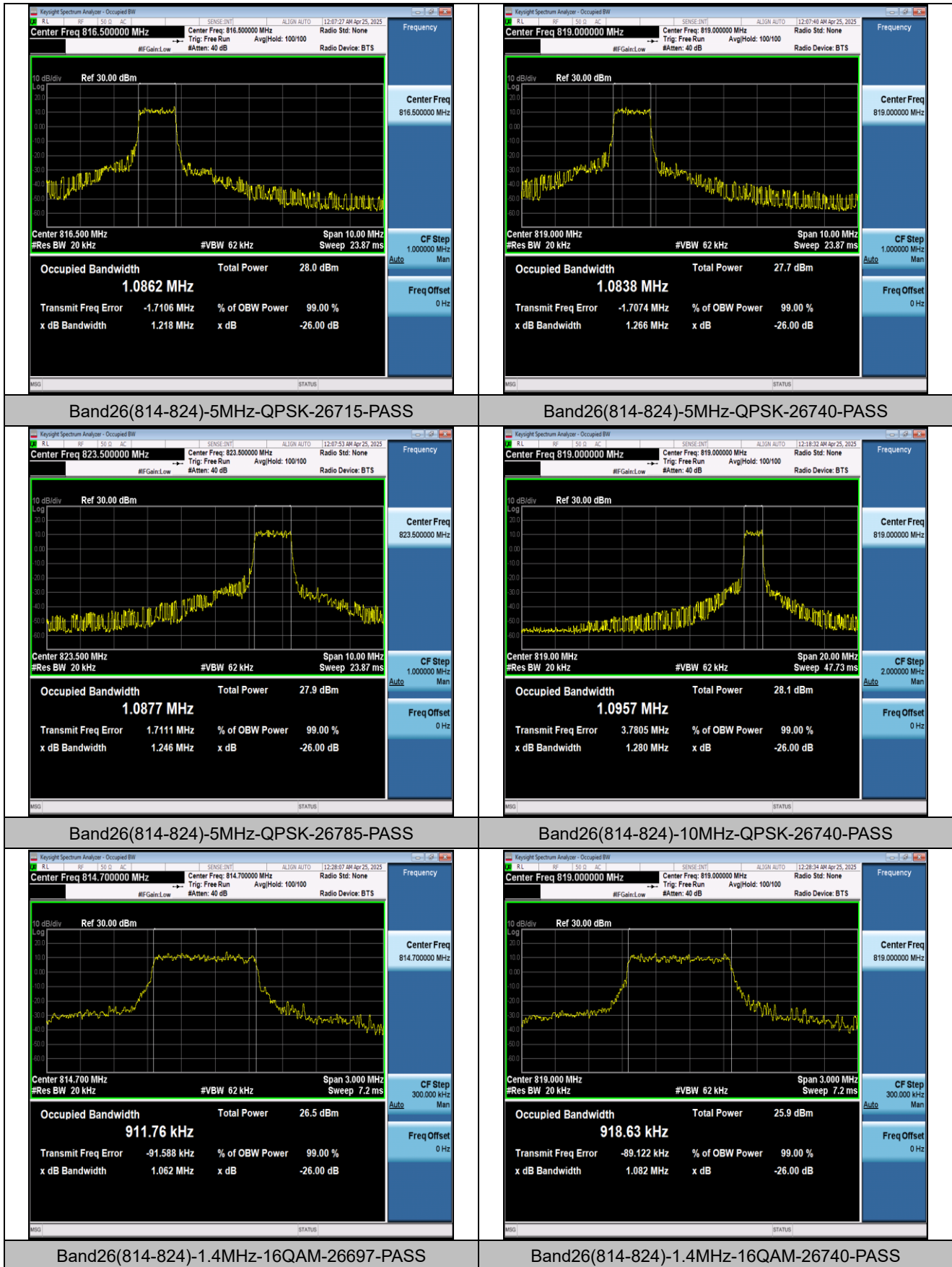


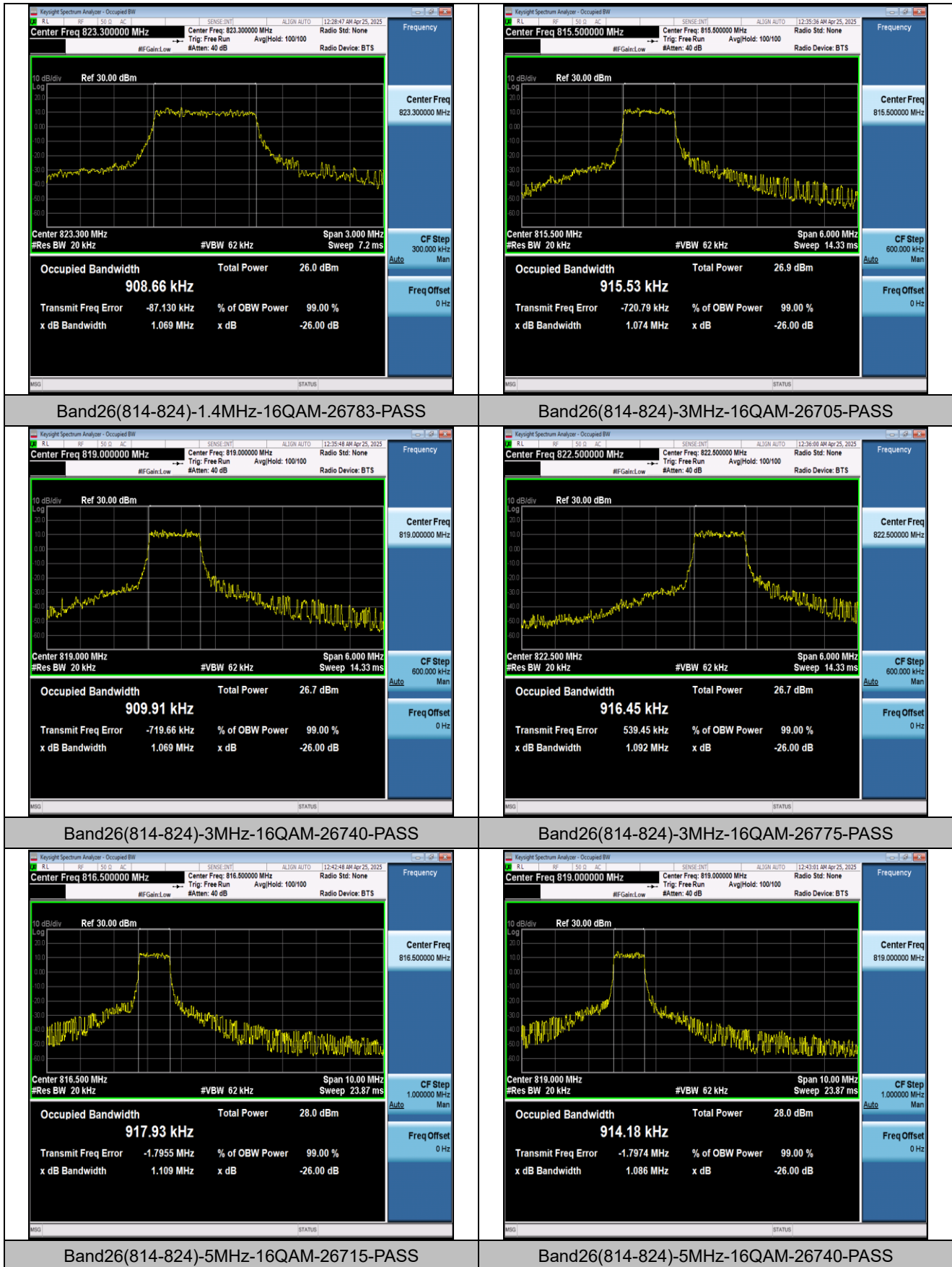
26dB Bandwidth and Occupied Bandwidth for M1**Test Result**

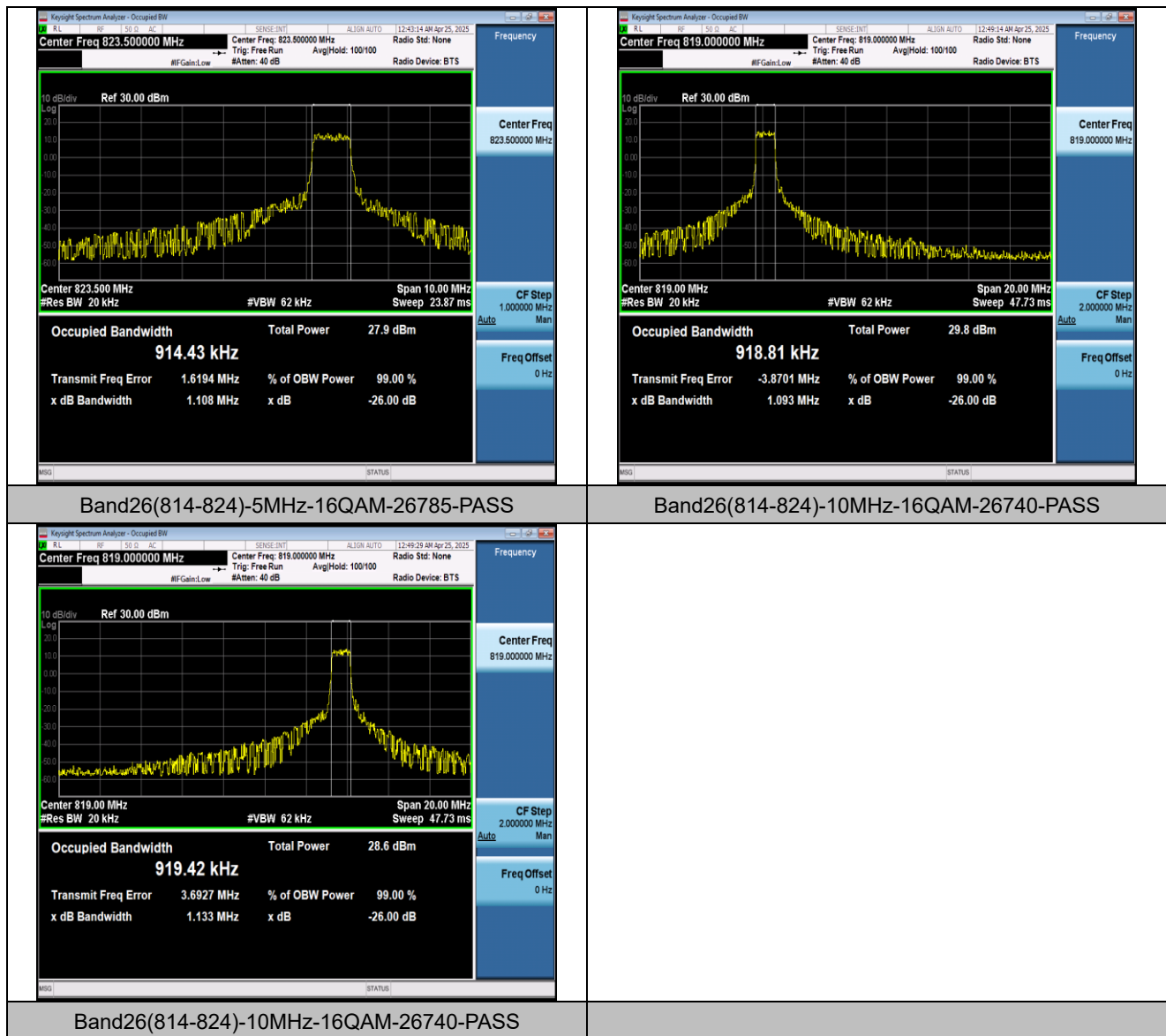
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26(814-824)	1.4MHz	QPSK	26697	6	0	Low	1.0780	1.245	PASS
Band26(814-824)	1.4MHz	QPSK	26740	6	0	Low	1.0790	1.240	PASS
Band26(814-824)	1.4MHz	QPSK	26783	6	0	High	1.0801	1.256	PASS
Band26(814-824)	3MHz	QPSK	26705	6	0	Low	1.0762	1.226	PASS
Band26(814-824)	3MHz	QPSK	26740	6	0	Low	1.0876	1.227	PASS
Band26(814-824)	3MHz	QPSK	26775	6	0	High	1.0810	1.241	PASS
Band26(814-824)	5MHz	QPSK	26715	6	0	Low	1.0862	1.218	PASS
Band26(814-824)	5MHz	QPSK	26740	6	0	Low	1.0838	1.266	PASS
Band26(814-824)	5MHz	QPSK	26785	6	0	High	1.0877	1.246	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	High	1.0957	1.280	PASS
Band26(814-824)	1.4MHz	16QAM	26697	5	0	Low	0.91176	1.062	PASS
Band26(814-824)	1.4MHz	16QAM	26740	5	0	Low	0.91863	1.082	PASS
Band26(814-824)	1.4MHz	16QAM	26783	5	0	High	0.90866	1.069	PASS
Band26(814-824)	3MHz	16QAM	26705	5	0	Low	0.91553	1.074	PASS
Band26(814-824)	3MHz	16QAM	26740	5	0	Low	0.90991	1.069	PASS
Band26(814-824)	3MHz	16QAM	26775	5	0	High	0.91645	1.092	PASS
Band26(814-824)	5MHz	16QAM	26715	5	0	Low	0.91793	1.109	PASS
Band26(814-824)	5MHz	16QAM	26740	5	0	Low	0.91418	1.086	PASS
Band26(814-824)	5MHz	16QAM	26785	5	0	High	0.91443	1.108	PASS
Band26(814-824)	10MHz	16QAM	26740	5	0	Low	0.91881	1.093	PASS
Band26(814-824)	10MHz	16QAM	26740	5	0	High	0.91942	1.133	PASS

Test Graphs



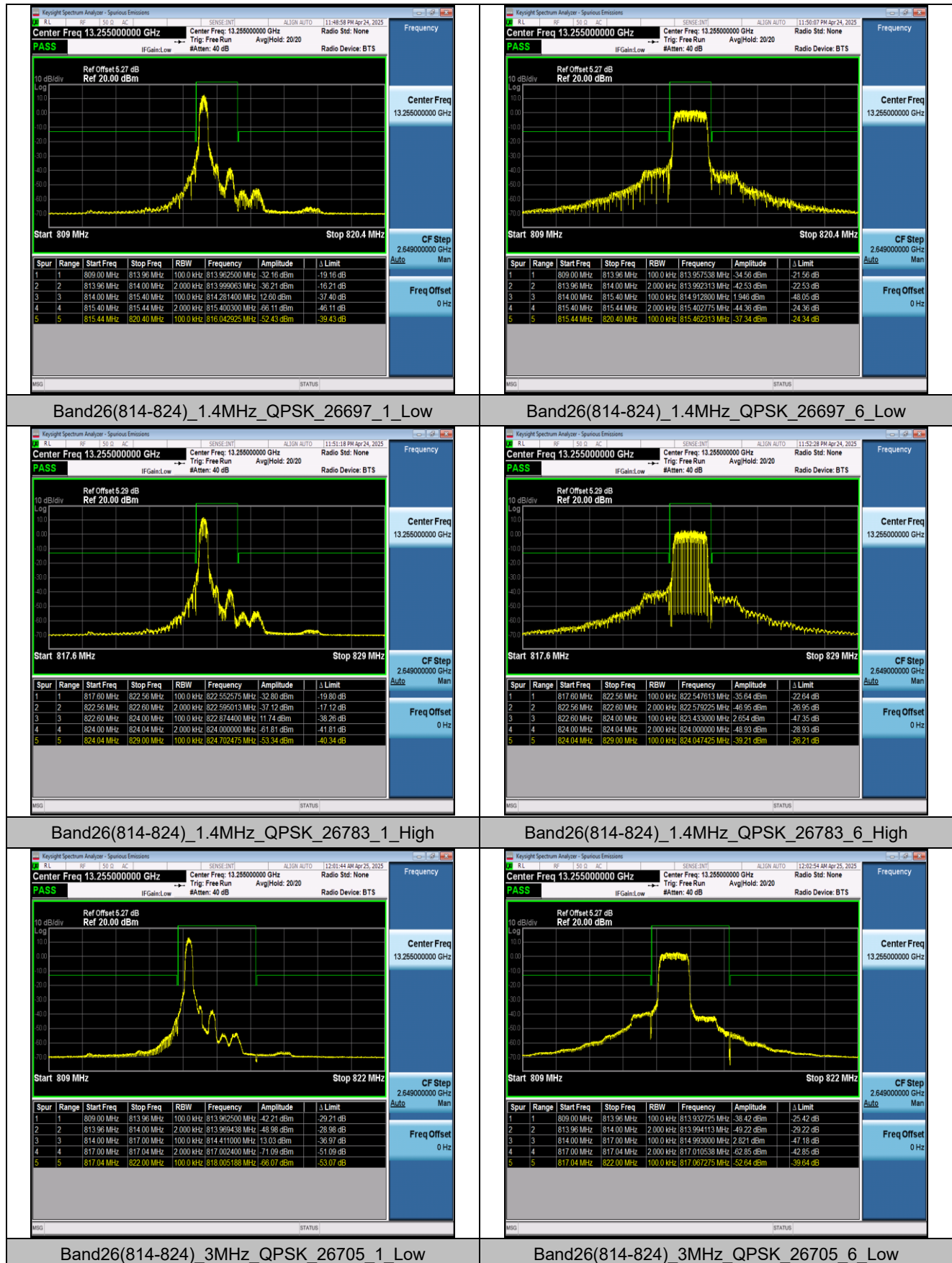


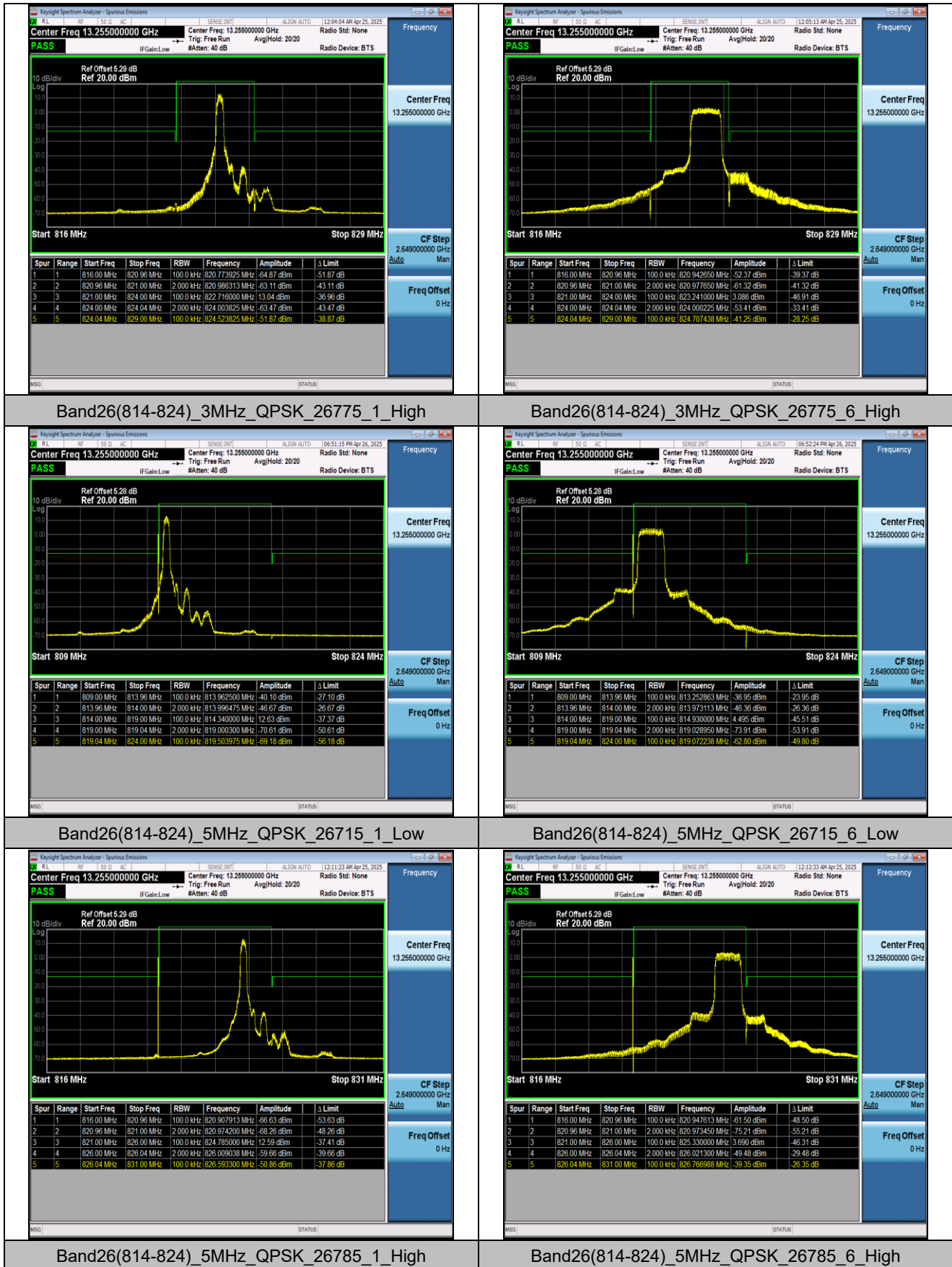


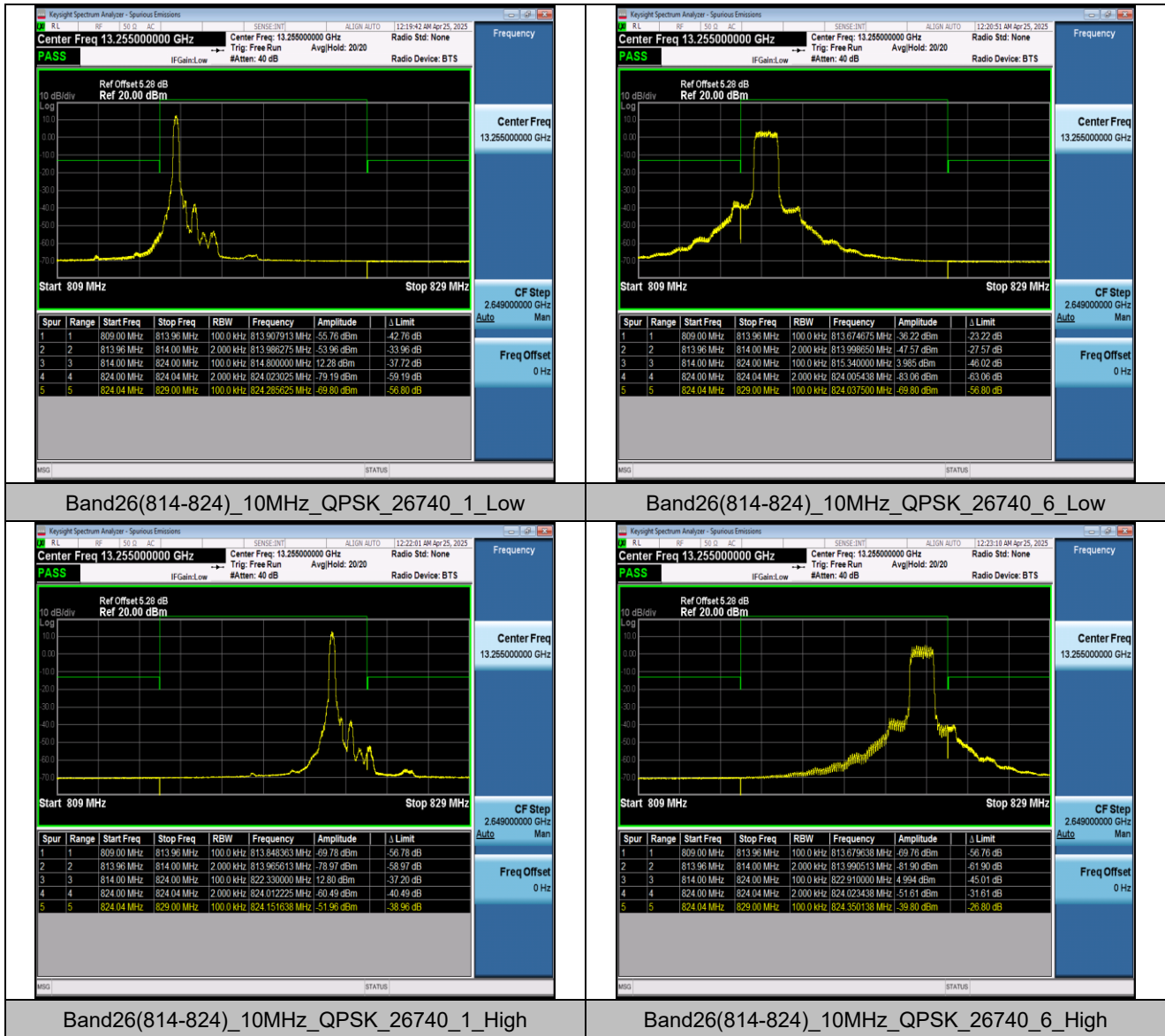


Band Edge for M1

Test Graphs

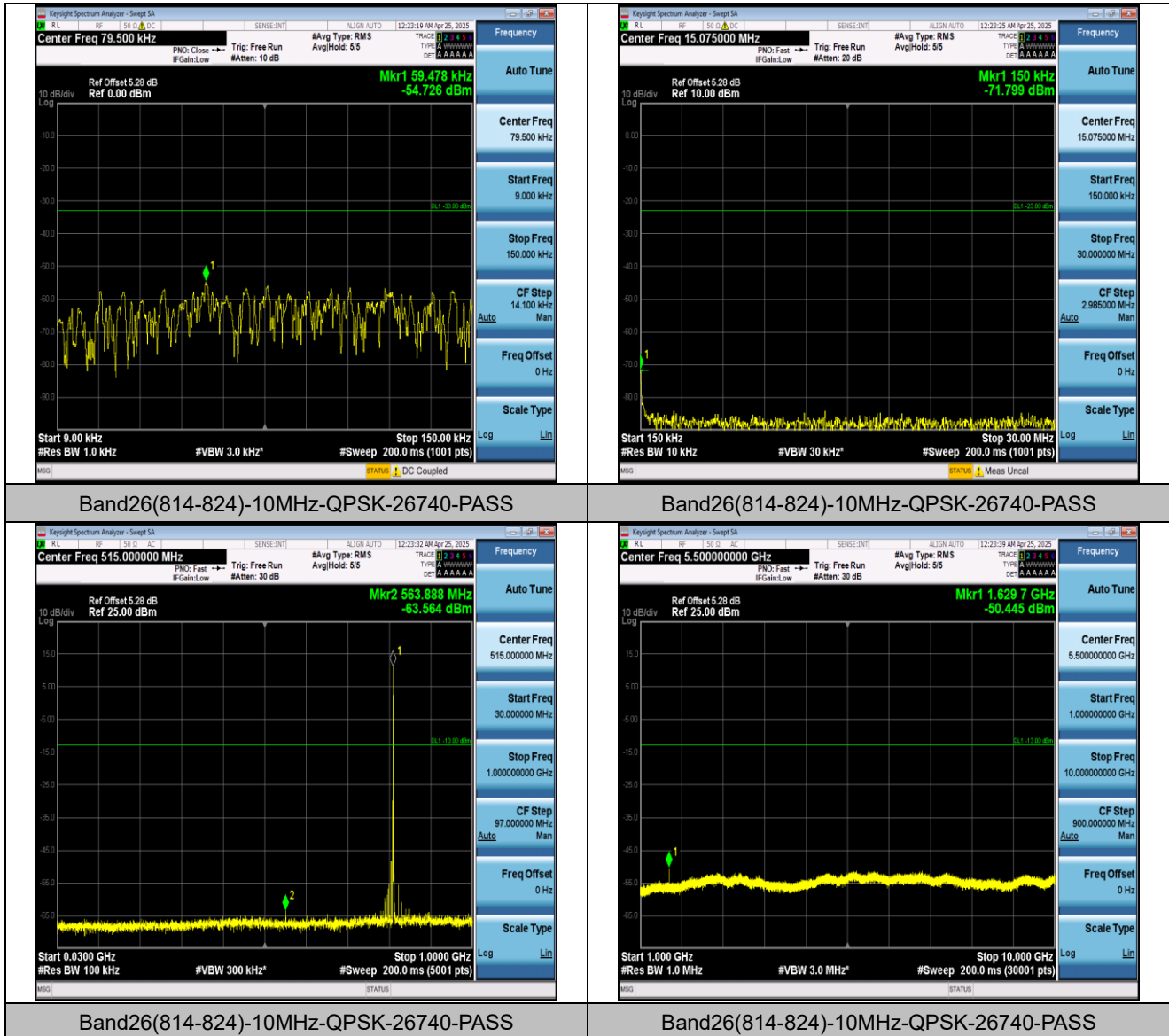






Conducted Spurious Emission for M1

Test Graphs



Frequency Stability for M1

Test Result

Voltage											
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	VN	NT	-5.60	-0.006838	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	VL	NT	-5.40	-0.006593	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	VH	NT	-7.60	-0.009280	PASS

Temperature											
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	-30	-5.50	-0.006716	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	-20	-6.90	-0.008425	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	-10	-6.50	-0.007937	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	0	-6.90	-0.008425	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	10	-6.60	-0.008059	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	20	-6.80	-0.008303	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	30	-6.10	-0.007448	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	40	-5.80	-0.007082	PASS
Band26(814-824)	10MHz	QPSK	26740	6	0	Low	NV	50	-7.30	-0.008913	PASS

~The End~