

Appendix-A LTE Cat M1 Band 26

(814-824)

Transmitter Conducted Output Power

Test Result

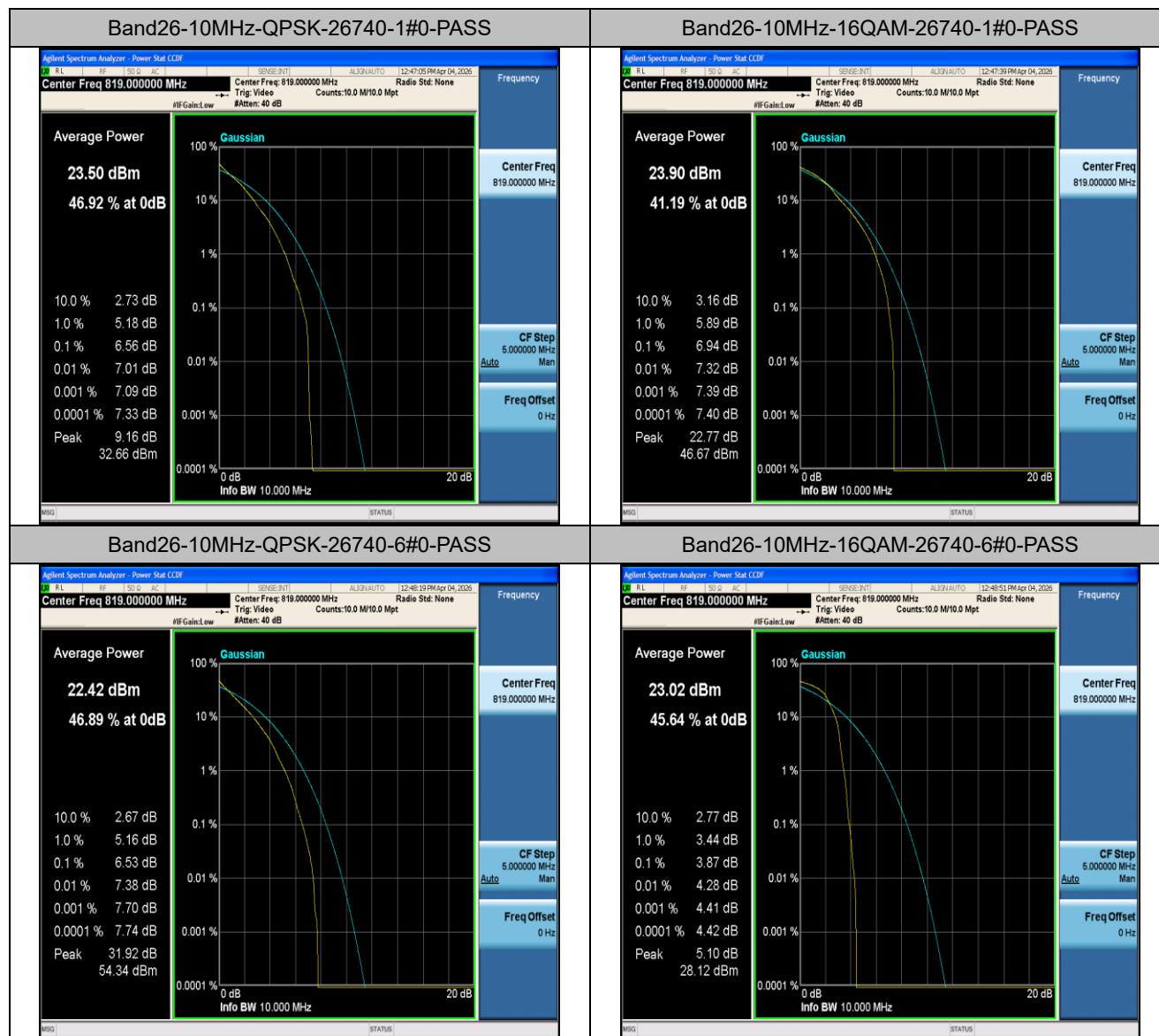
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Power (dBm)	Limit (dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1	0	Low	22.36	50.00	PASS
Band26	1.4MHz	16QAM	26697	1	0	Low	21.32	50.00	PASS
Band26	1.4MHz	QPSK	26697	1	5	Low	22.42	50.00	PASS
Band26	1.4MHz	16QAM	26697	1	5	Low	21.35	50.00	PASS
Band26	1.4MHz	QPSK	26697	6	0	Low	20.13	50.00	PASS
Band26	1.4MHz	16QAM	26697	6	0	Low	15.54	50.00	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	22.88	50.00	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	21.93	50.00	PASS
Band26	1.4MHz	QPSK	26740	1	5	Low	22.92	50.00	PASS
Band26	1.4MHz	16QAM	26740	1	5	Low	22.00	50.00	PASS
Band26	1.4MHz	QPSK	26740	6	0	Low	20.62	50.00	PASS
Band26	1.4MHz	16QAM	26740	6	0	Low	16.04	50.00	PASS
Band26	1.4MHz	QPSK	26783	1	0	High	22.90	50.00	PASS
Band26	1.4MHz	16QAM	26783	1	0	High	21.82	50.00	PASS
Band26	1.4MHz	QPSK	26783	1	5	High	22.94	50.00	PASS
Band26	1.4MHz	16QAM	26783	1	5	High	22.04	50.00	PASS
Band26	1.4MHz	QPSK	26783	6	0	High	20.65	50.00	PASS
Band26	1.4MHz	16QAM	26783	6	0	High	16.02	50.00	PASS
Band26	3MHz	QPSK	26705	1	0	Low	21.62	50.00	PASS
Band26	3MHz	16QAM	26705	1	0	Low	20.69	50.00	PASS
Band26	3MHz	QPSK	26705	1	5	Low	21.64	50.00	PASS
Band26	3MHz	16QAM	26705	1	5	Low	20.67	50.00	PASS
Band26	3MHz	QPSK	26705	6	0	Low	19.95	50.00	PASS
Band26	3MHz	16QAM	26705	6	0	Low	16.55	50.00	PASS
Band26	3MHz	QPSK	26740	1	0	Low	22.85	50.00	PASS
Band26	3MHz	16QAM	26740	1	0	Low	21.86	50.00	PASS
Band26	3MHz	QPSK	26740	1	5	Low	22.88	50.00	PASS
Band26	3MHz	16QAM	26740	1	5	Low	21.92	50.00	PASS
Band26	3MHz	QPSK	26740	6	0	Low	20.60	50.00	PASS
Band26	3MHz	16QAM	26740	6	0	Low	17.81	50.00	PASS
Band26	3MHz	QPSK	26775	1	0	High	21.73	50.00	PASS
Band26	3MHz	16QAM	26775	1	0	High	20.80	50.00	PASS
Band26	3MHz	QPSK	26775	1	5	High	21.79	50.00	PASS
Band26	3MHz	16QAM	26775	1	5	High	20.86	50.00	PASS

Band26	3MHz	QPSK	26775	6	0	High	20.05	50.00	PASS
Band26	3MHz	16QAM	26775	6	0	High	16.73	50.00	PASS
Band26	5MHz	QPSK	26715	1	0	Low	21.63	50.00	PASS
Band26	5MHz	16QAM	26715	1	0	Low	21.98	50.00	PASS
Band26	5MHz	QPSK	26715	1	5	Low	21.60	50.00	PASS
Band26	5MHz	16QAM	26715	1	5	Low	22.03	50.00	PASS
Band26	5MHz	QPSK	26715	6	0	Low	21.03	50.00	PASS
Band26	5MHz	16QAM	26715	6	0	Low	22.12	50.00	PASS
Band26	5MHz	QPSK	26740	1	0	Low	22.82	50.00	PASS
Band26	5MHz	16QAM	26740	1	0	Low	23.00	50.00	PASS
Band26	5MHz	QPSK	26740	1	5	Low	22.77	50.00	PASS
Band26	5MHz	16QAM	26740	1	5	Low	23.12	50.00	PASS
Band26	5MHz	QPSK	26740	6	0	Low	21.63	50.00	PASS
Band26	5MHz	16QAM	26740	6	0	Low	22.68	50.00	PASS
Band26	5MHz	QPSK	26785	1	0	High	22.75	50.00	PASS
Band26	5MHz	16QAM	26785	1	0	High	23.02	50.00	PASS
Band26	5MHz	QPSK	26785	1	5	High	22.77	50.00	PASS
Band26	5MHz	16QAM	26785	1	5	High	23.03	50.00	PASS
Band26	5MHz	QPSK	26785	6	0	High	21.58	50.00	PASS
Band26	5MHz	16QAM	26785	6	0	High	22.68	50.00	PASS
Band26	10MHz	QPSK	26740	1	0	Low	22.80	50.00	PASS
Band26	10MHz	16QAM	26740	1	0	Low	23.23	50.00	PASS
Band26	10MHz	QPSK	26740	1	5	Low	22.86	50.00	PASS
Band26	10MHz	16QAM	26740	1	5	Low	23.15	50.00	PASS
Band26	10MHz	QPSK	26740	6	0	Low	21.66	50.00	PASS
Band26	10MHz	16QAM	26740	6	0	Low	22.63	50.00	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	10MHz	QPSK	26740	1	0	Low	6.56	<=13	PASS
Band26	10MHz	16QAM	26740	1	0	Low	6.94	<=13	PASS
Band26	10MHz	QPSK	26740	6	0	Low	6.53	<=13	PASS
Band26	10MHz	16QAM	26740	6	0	Low	3.87	<=13	PASS

Test Graphs

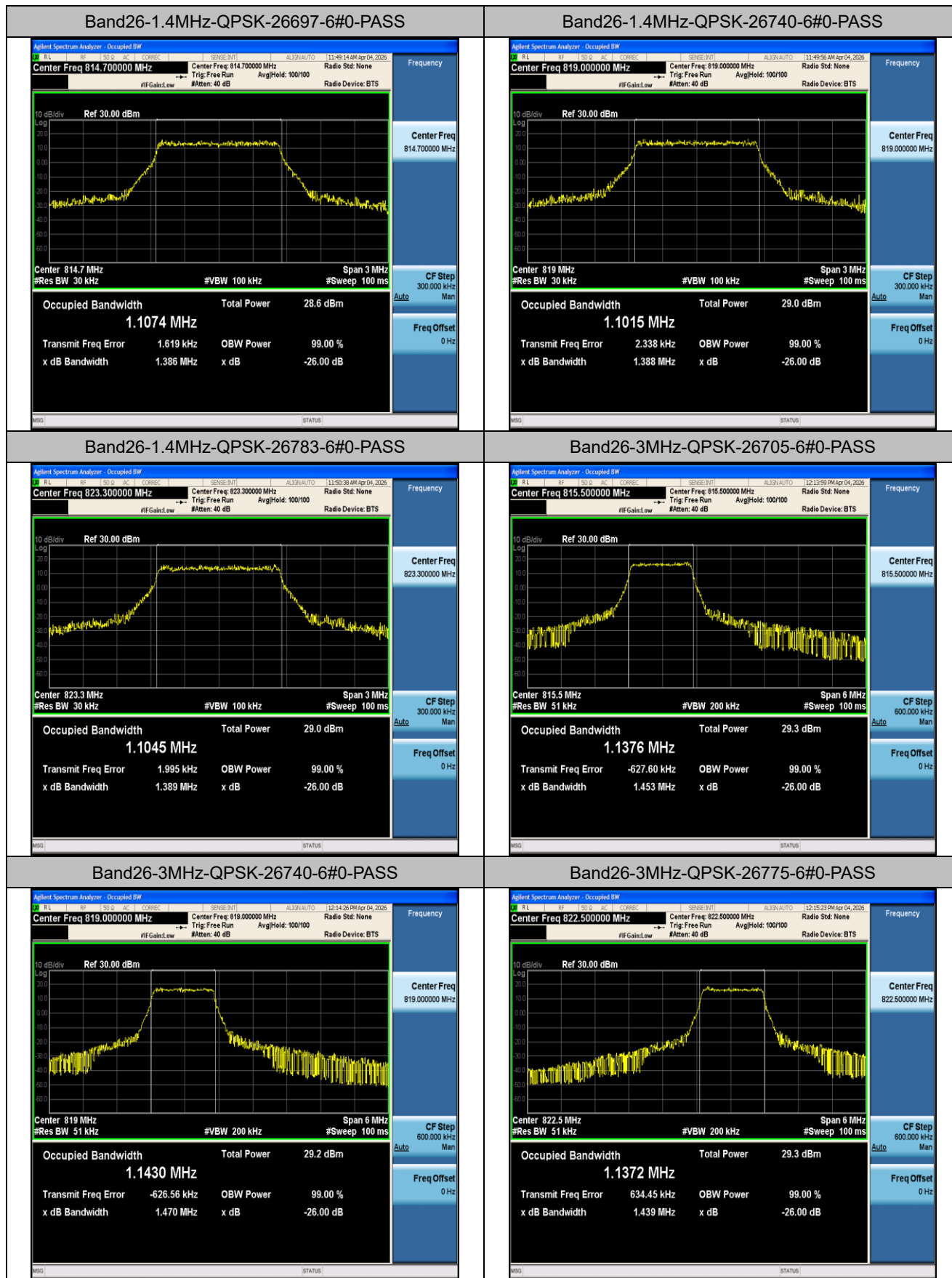


26dB Bandwidth and Occupied Bandwidth for M1

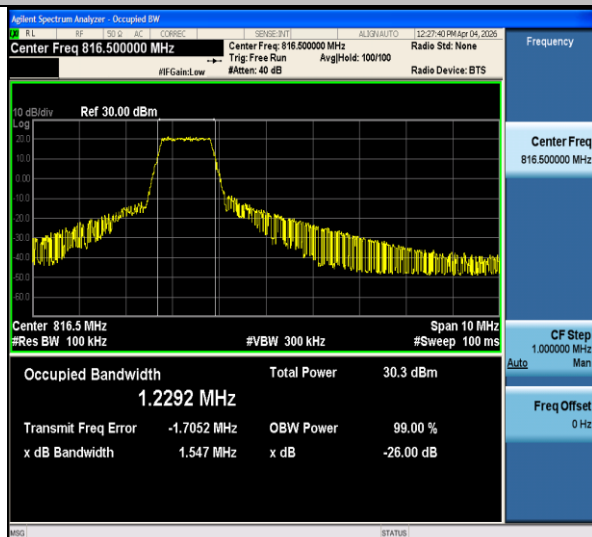
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6	0	Low	1.1074	1.386	PASS
Band26	1.4MHz	QPSK	26740	6	0	Low	1.1015	1.388	PASS
Band26	1.4MHz	QPSK	26783	6	0	High	1.1045	1.389	PASS
Band26	3MHz	QPSK	26705	6	0	Low	1.1376	1.453	PASS
Band26	3MHz	QPSK	26740	6	0	Low	1.1430	1.470	PASS
Band26	3MHz	QPSK	26775	6	0	High	1.1372	1.439	PASS
Band26	5MHz	QPSK	26715	6	0	Low	1.2292	1.547	PASS
Band26	5MHz	QPSK	26740	6	0	Low	1.2410	1.571	PASS
Band26	5MHz	QPSK	26785	6	0	High	1.2335	1.574	PASS
Band26	10MHz	QPSK	26740	6	0	Low	1.3507	1.804	PASS

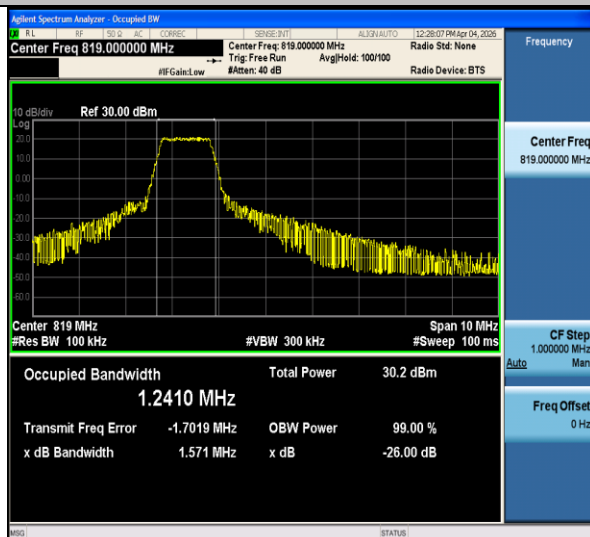
Test Graphs



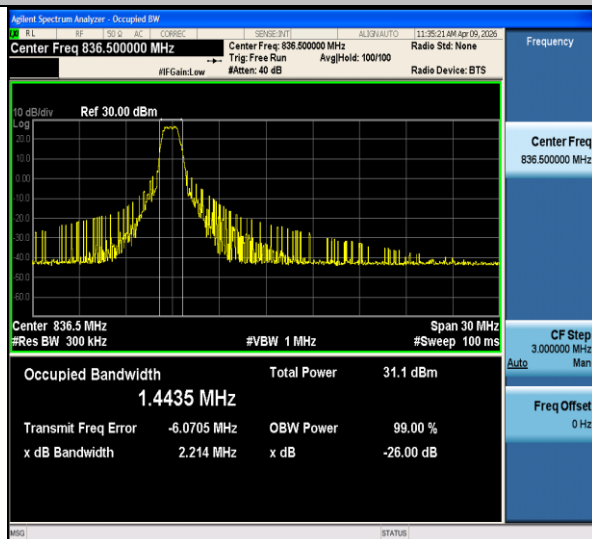
Band26-5MHz-QPSK-26715-6#0-PASS



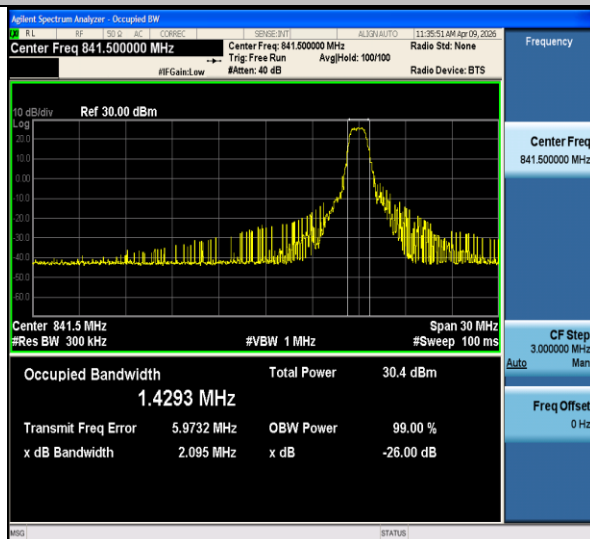
Band26-5MHz-QPSK-26740-6#0-PASS



Band26-5MHz-QPSK-26785-6#0-PASS

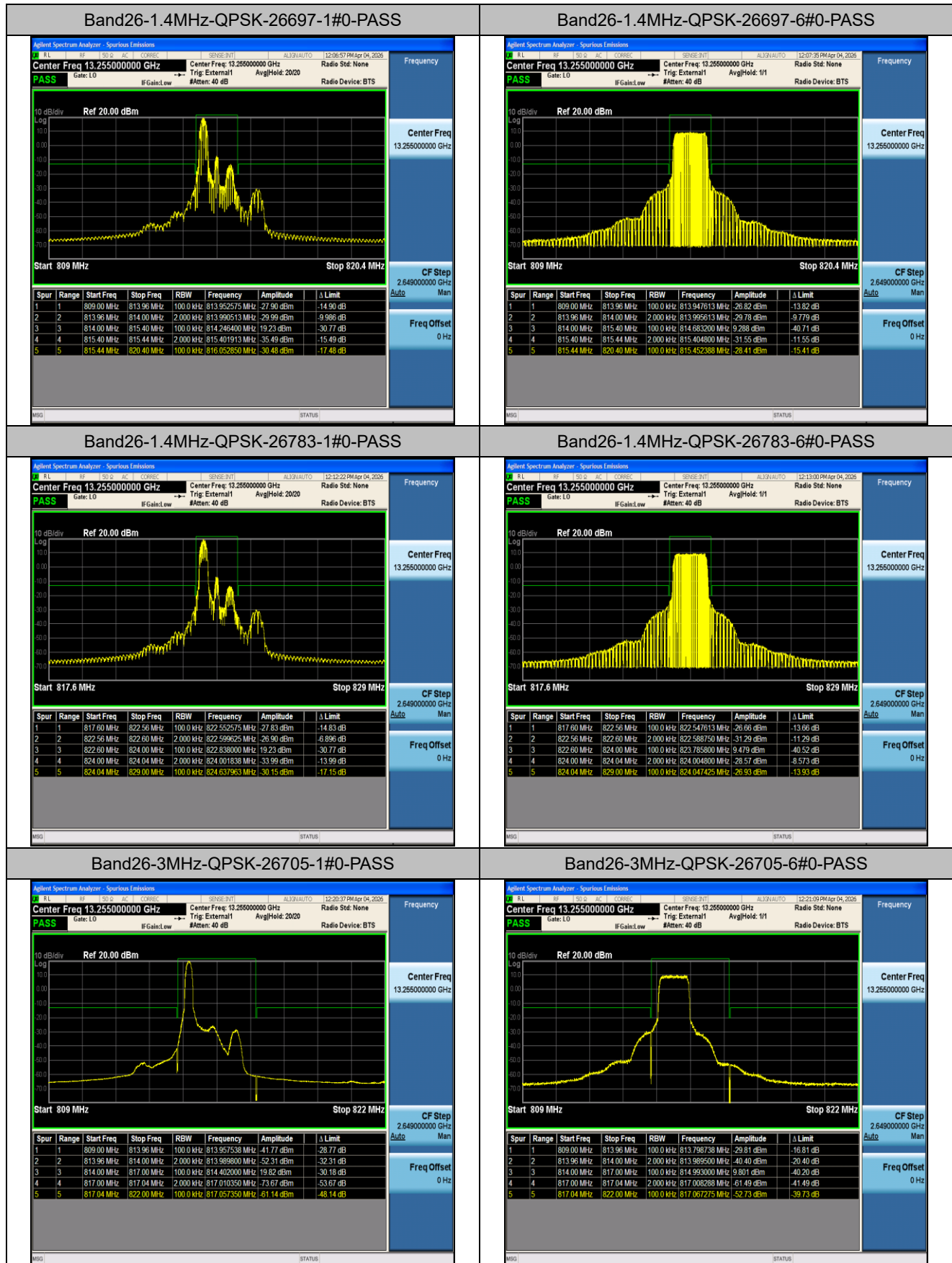


Band26-10MHz-QPSK-26740-6#0-PASS

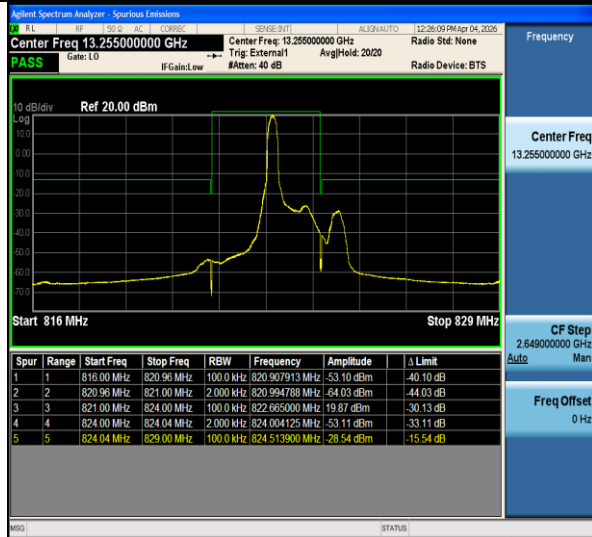


Band Edge for M1

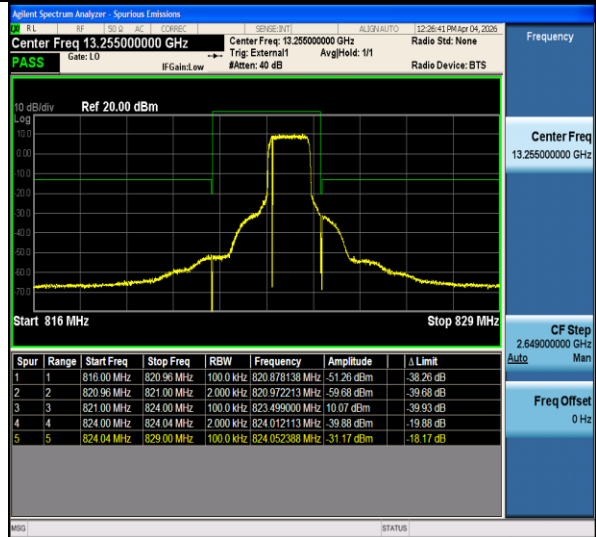
Test Graphs



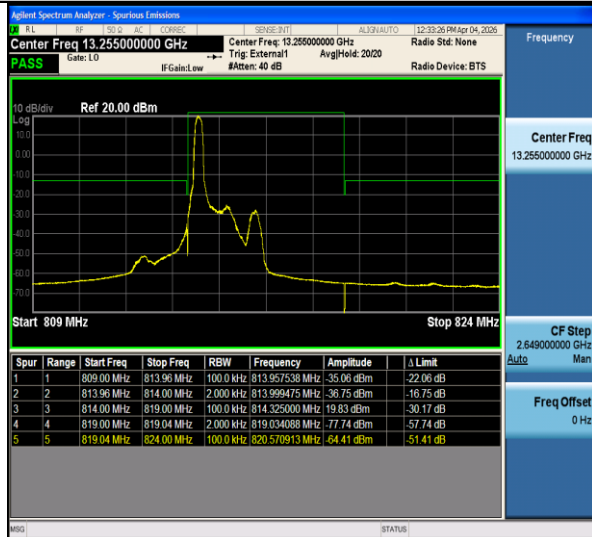
Band26-3MHz-QPSK-26775-1#0-PASS



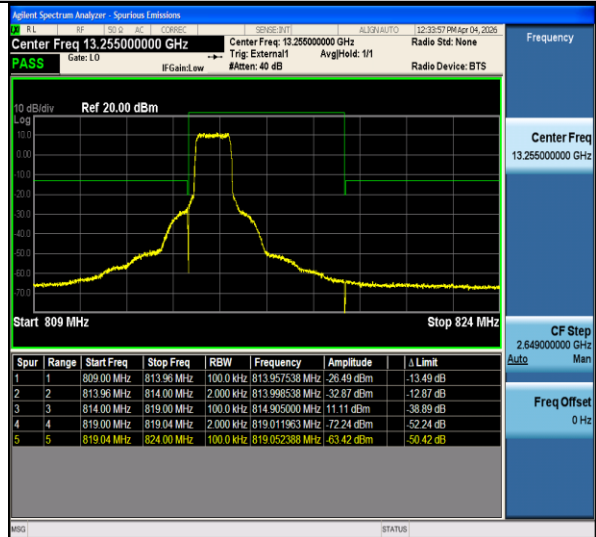
Band26-3MHz-QPSK-26775-6#0-PASS



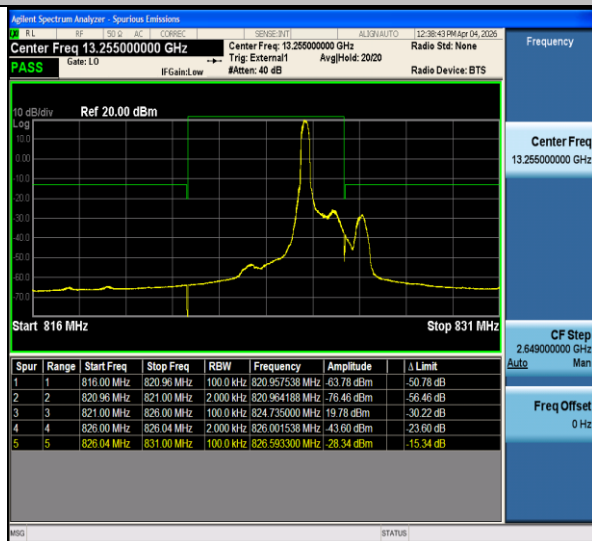
Band26-5MHz-QPSK-26715-1#0-PASS



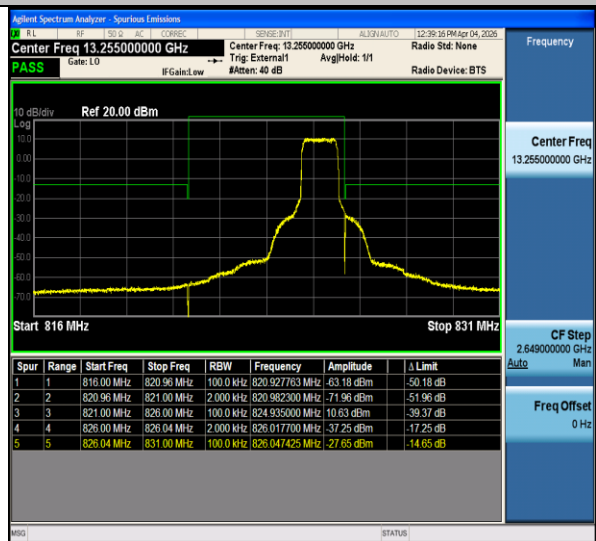
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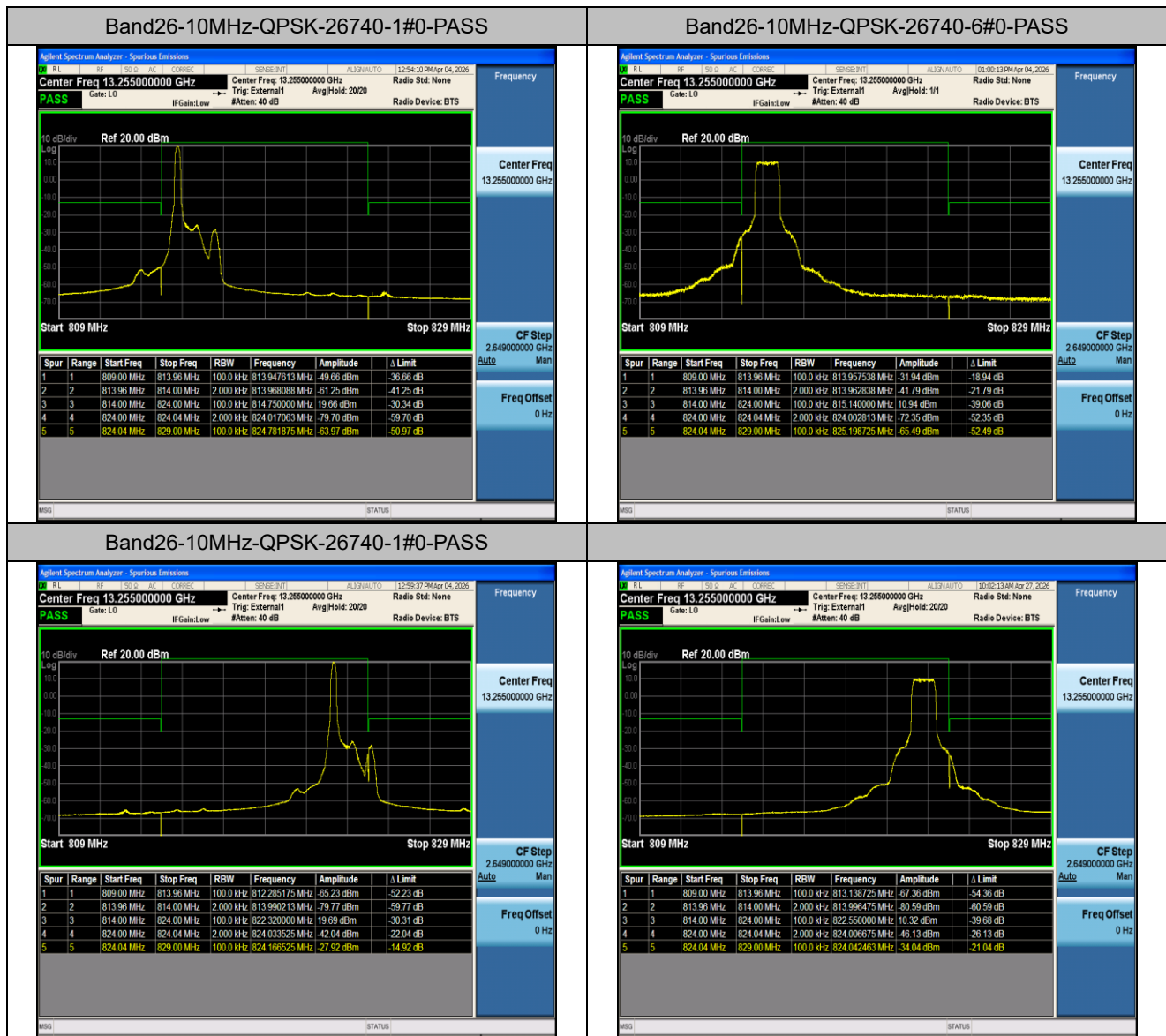


Band26-5MHz-QPSK-26785-1#0-PASS



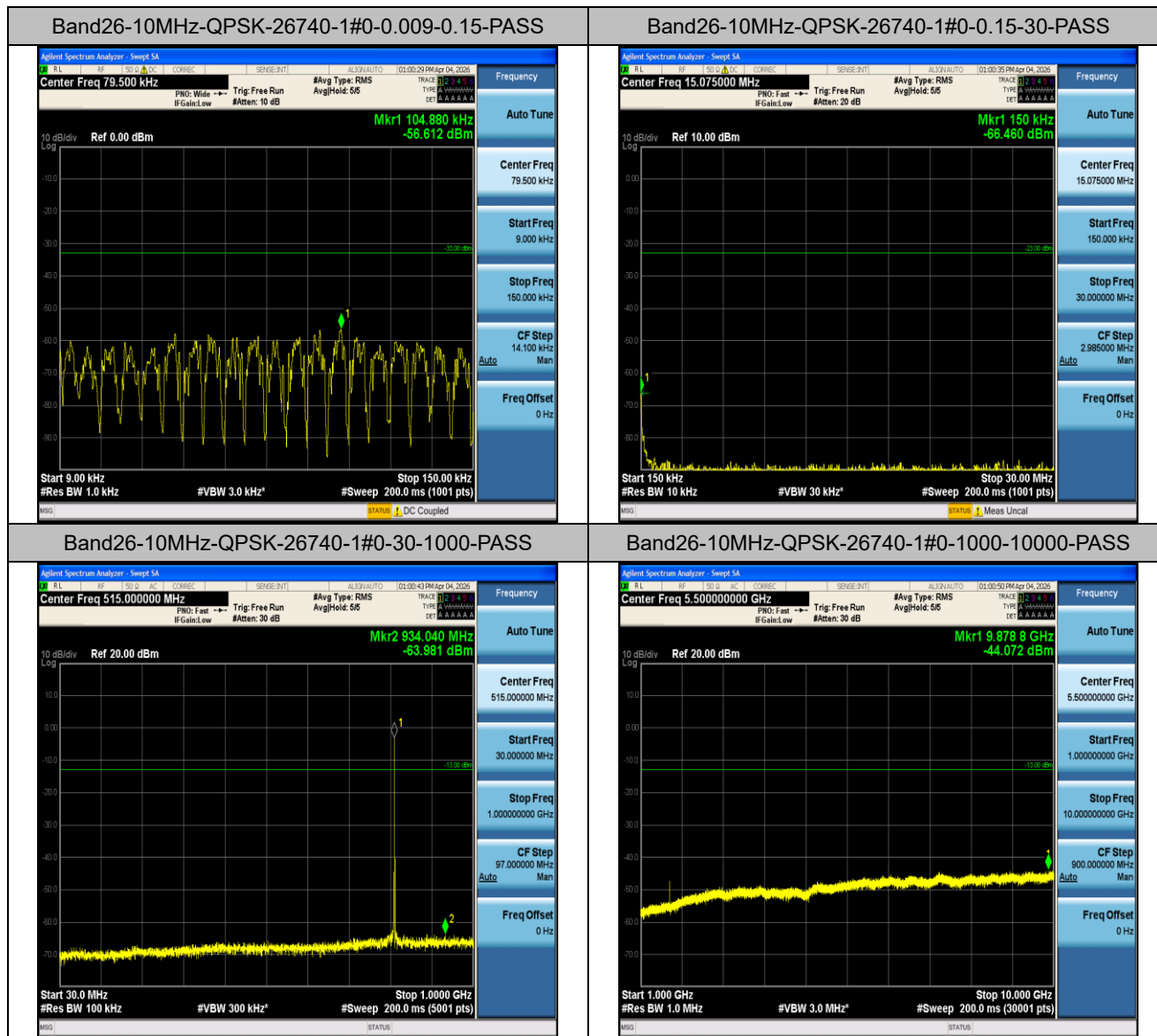
Band26-5MHz-QPSK-26785-6#0-PASS





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	10MHz	QPSK	26740	6	0	Low	VN	NT	-3.10	-0.003785	PASS
Band26	10MHz	QPSK	26740	6	0	Low	VL	NT	-3.80	-0.004640	PASS
Band26	10MHz	QPSK	26740	6	0	Low	VH	NT	-3.20	-0.003907	PASS

Temperature											
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	6	0	Low	NV	-30	-3.00	-0.003663	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	-20	-4.50	-0.005495	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	-10	-4.00	-0.004884	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	0	-3.70	-0.004518	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	10	-3.90	-0.004762	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	20	-4.10	-0.005006	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	30	-3.60	-0.004396	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	40	-2.70	-0.003297	PASS
Band26	10MHz	QPSK	26740	6	0	Low	NV	50	-2.00	-0.002442	PASS

~The End~