

Appendix-A LTE Band 41

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	24.86	29.42	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	24.67	29.23	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	24.79	29.35	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	23.92	28.48	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	24.76	29.32	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	24.92	29.48	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	24.94	29.5	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	23.97	28.53	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	24.65	29.21	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	24.54	29.1	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	24.59	29.15	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	23.71	28.27	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	23.98	28.54	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	24.13	28.69	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	23.87	28.43	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	22.96	27.52	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	24.15	28.71	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	23.74	28.3	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	24.06	28.62	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	23.07	27.63	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	23.77	28.33	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	23.61	28.17	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	23.75	28.31	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	22.7	27.26	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	25.12	29.68	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	24.79	29.35	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	24.82	29.38	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	23.96	28.52	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	24.78	29.34	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	24.63	29.19	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	24.75	29.31	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	23.83	28.39	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	24.52	29.08	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	24.48	29.04	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	24.39	28.95	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	23.52	28.08	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	23.89	28.45	33.00	PASS

Band41	10MHz	16QAM	39700	1RB#24	23.62	28.18	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	23.72	28.28	33.00	PASS
Band41	10MHz	16QAM	39700	27RB#0	23.06	27.62	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	24.31	28.87	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	23.26	27.82	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	24.09	28.65	33.00	PASS
Band41	10MHz	16QAM	40620	27RB#0	23.13	27.69	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	23.94	28.5	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	23.6	28.16	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	23.64	28.2	33.00	PASS
Band41	10MHz	16QAM	41540	27RB#0	22.61	27.17	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	24.79	29.35	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	24.63	29.19	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	24.46	29.02	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	23.83	28.39	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	24.67	29.23	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	24.57	29.13	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	24.44	29	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	23.78	28.34	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	24.37	28.93	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	24.3	28.86	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	24.03	28.59	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	23.45	28.01	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	24.27	28.83	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	23.91	28.47	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	23.81	28.37	33.00	PASS
Band41	15MHz	16QAM	39725	27RB#0	23.05	27.61	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	23.99	28.55	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	24.03	28.59	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	23.62	28.18	33.00	PASS
Band41	15MHz	16QAM	40620	27RB#0	23.13	27.69	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	23.76	28.32	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.92	27.48	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	23.38	27.94	33.00	PASS
Band41	15MHz	16QAM	41515	27RB#0	22.84	27.4	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	25.22	29.78	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	24.57	29.13	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	24.55	29.11	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	23.63	28.19	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	25.06	29.62	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	24.55	29.11	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	24.61	29.17	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	23.78	28.34	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	24.76	29.32	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	24.31	28.87	33.00	PASS

Band41	20MHz	QPSK	41490	1RB#99	24.2	28.76	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	23.48	28.04	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	24.34	28.9	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	23.42	27.98	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	23.58	28.14	33.00	PASS
Band41	20MHz	16QAM	39750	27RB#0	23.03	27.59	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	24.03	28.59	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	23.56	28.12	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	23.4	27.96	33.00	PASS
Band41	20MHz	16QAM	40620	27RB#0	23.1	27.66	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	23.99	28.55	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	23.07	27.63	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	23.23	27.79	33.00	PASS
Band41	20MHz	16QAM	41490	27RB#0	22.76	27.32	33.00	PASS

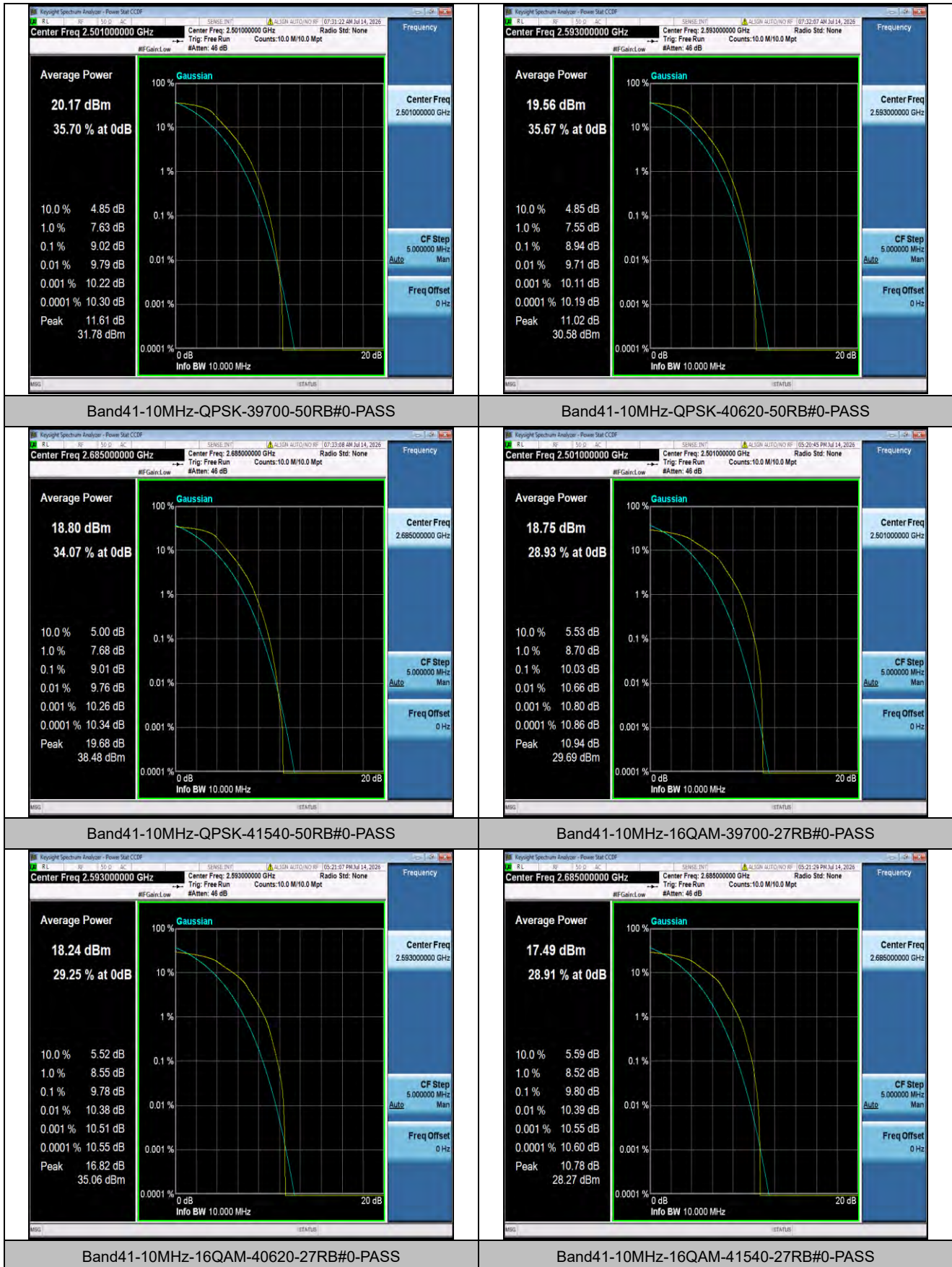
Peak-to-Average Ratio(CCDF)

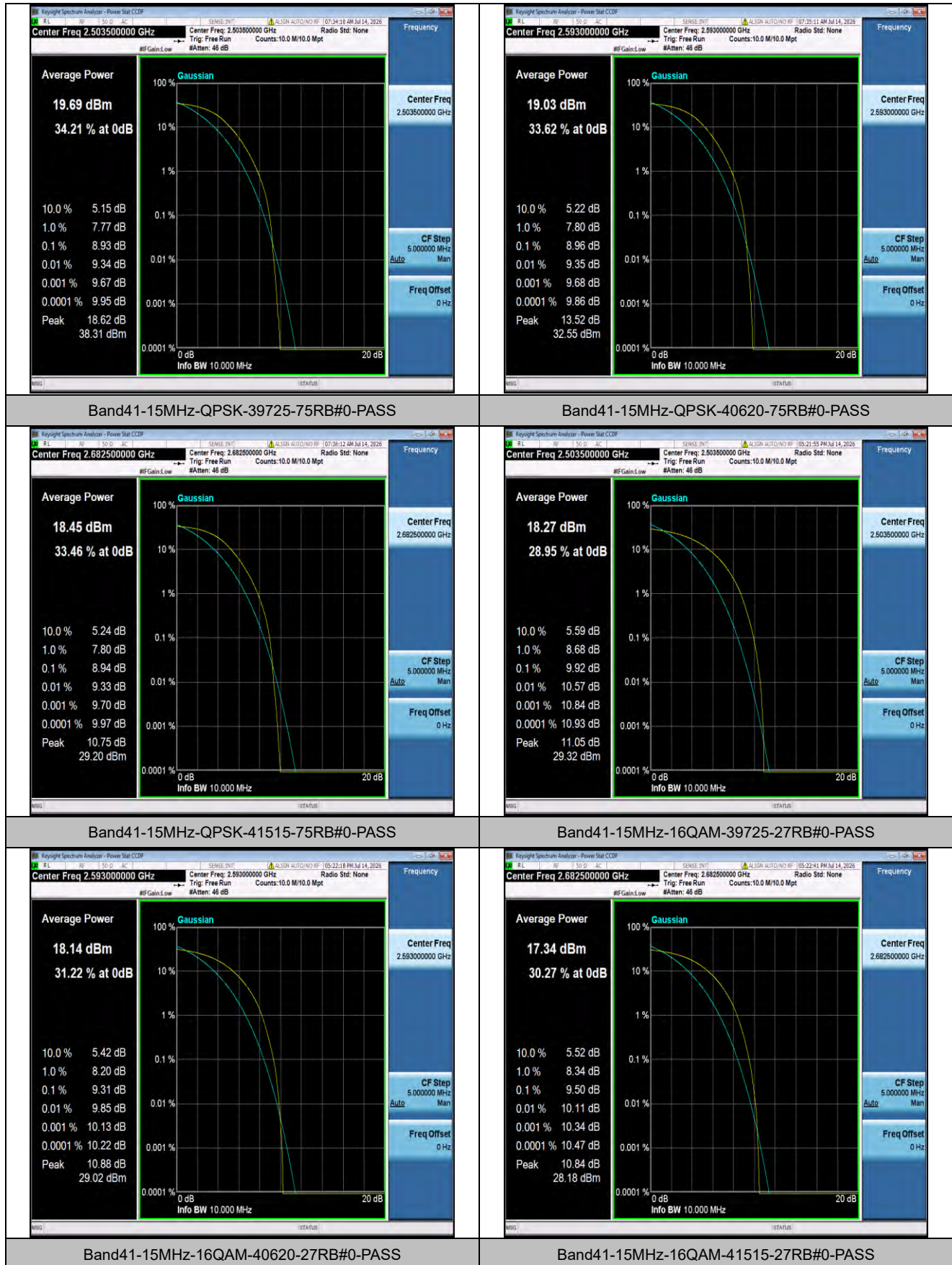
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	9.42	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	8.97	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	8.84	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	9.94	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	9.72	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	9.75	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.02	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.94	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.01	13	PASS
Band41	10MHz	16QAM	39700	27RB#0	10.03	13	PASS
Band41	10MHz	16QAM	40620	27RB#0	9.78	13	PASS
Band41	10MHz	16QAM	41540	27RB#0	9.80	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	8.93	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	8.96	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	8.94	13	PASS
Band41	15MHz	16QAM	39725	27RB#0	9.92	13	PASS
Band41	15MHz	16QAM	40620	27RB#0	9.31	13	PASS
Band41	15MHz	16QAM	41515	27RB#0	9.50	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	9.72	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.77	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.55	13	PASS
Band41	20MHz	16QAM	39750	27RB#0	10.28	13	PASS
Band41	20MHz	16QAM	40620	27RB#0	9.48	13	PASS
Band41	20MHz	16QAM	41490	27RB#0	9.19	13	PASS

Test Graphs

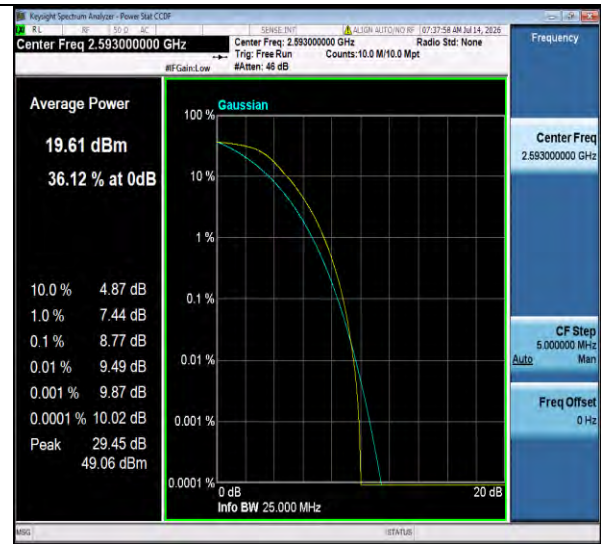




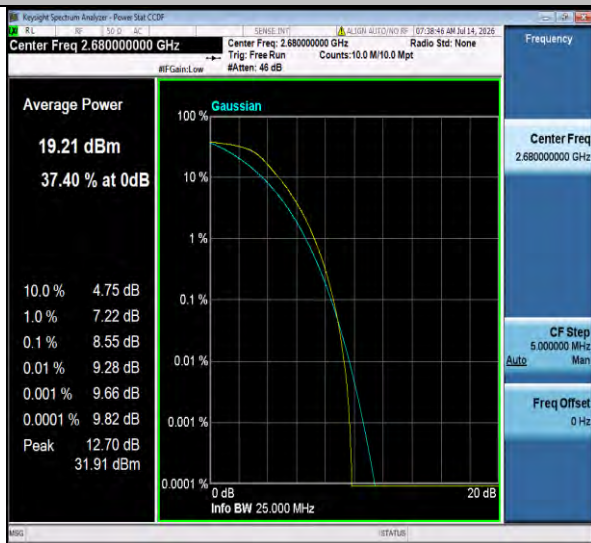




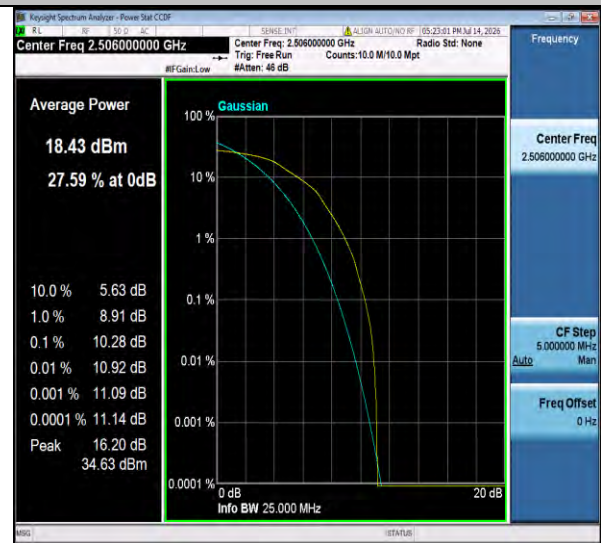
Band41-20MHz-QPSK-39750-100RB#0-PASS



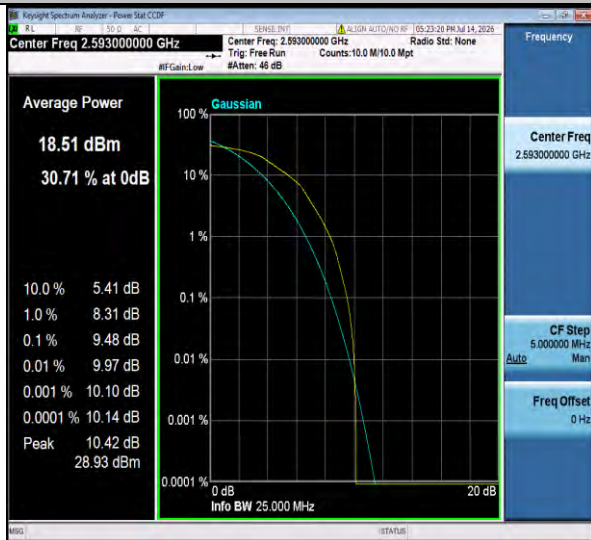
Band41-20MHz-QPSK-40620-100RB#0-PASS



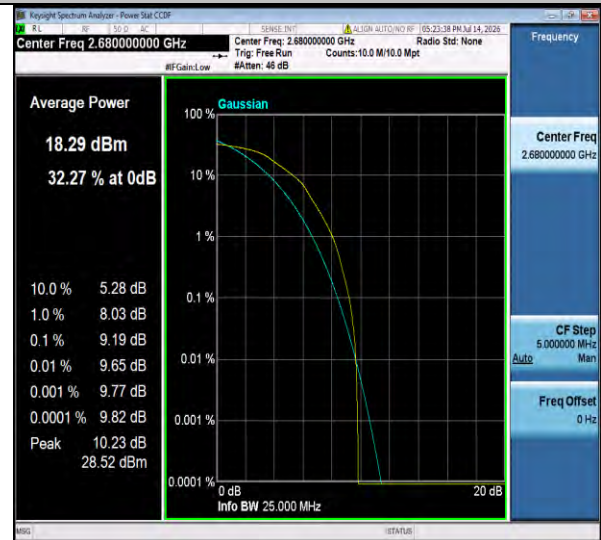
Band41-20MHz-QPSK-41490-100RB#0-PASS



Band41-20MHz-16QAM-39750-27RB#0-PASS



Band41-20MHz-16QAM-40620-27RB#0-PASS



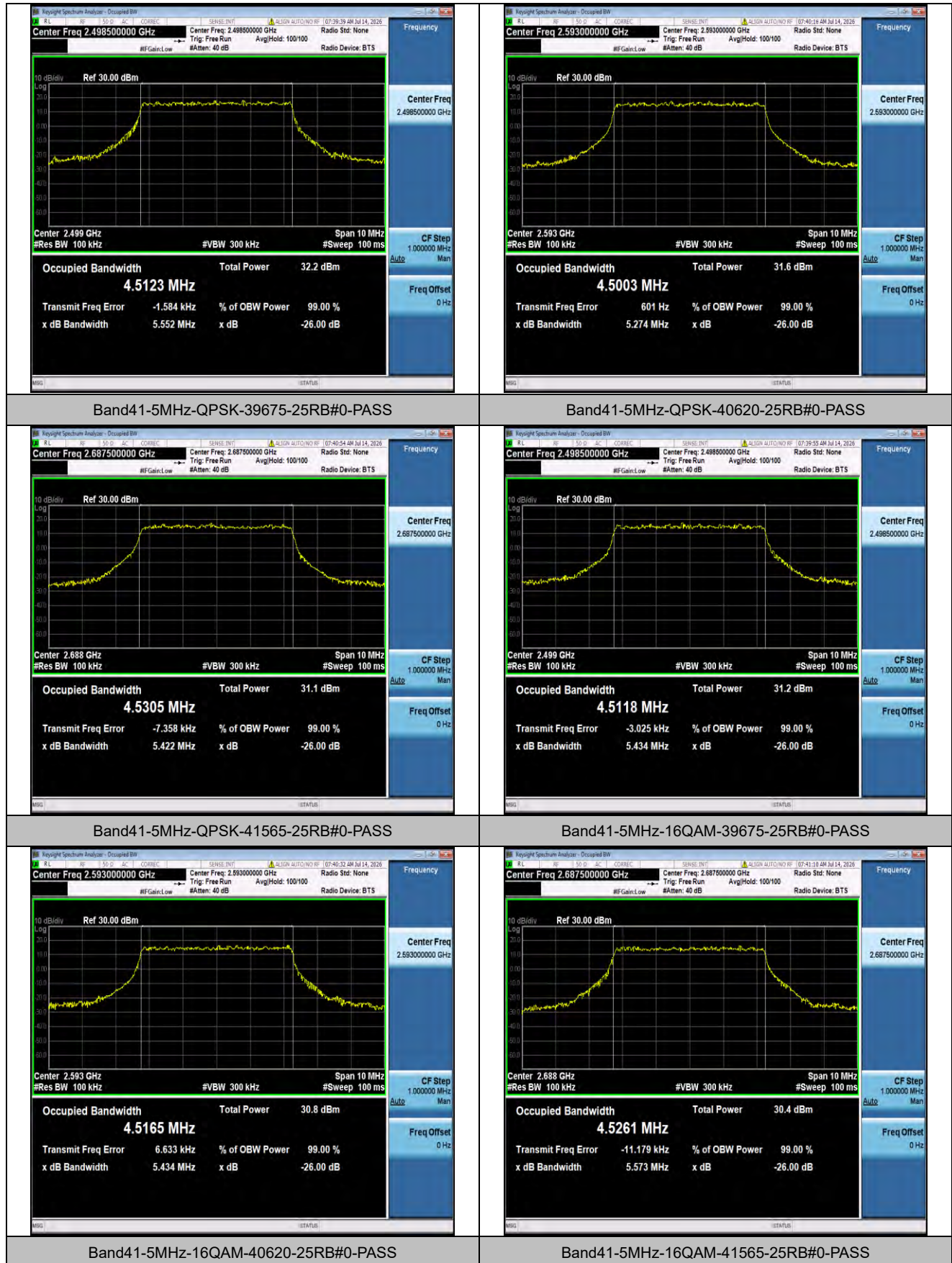
Band41-20MHz-16QAM-41490-27RB#0-PASS

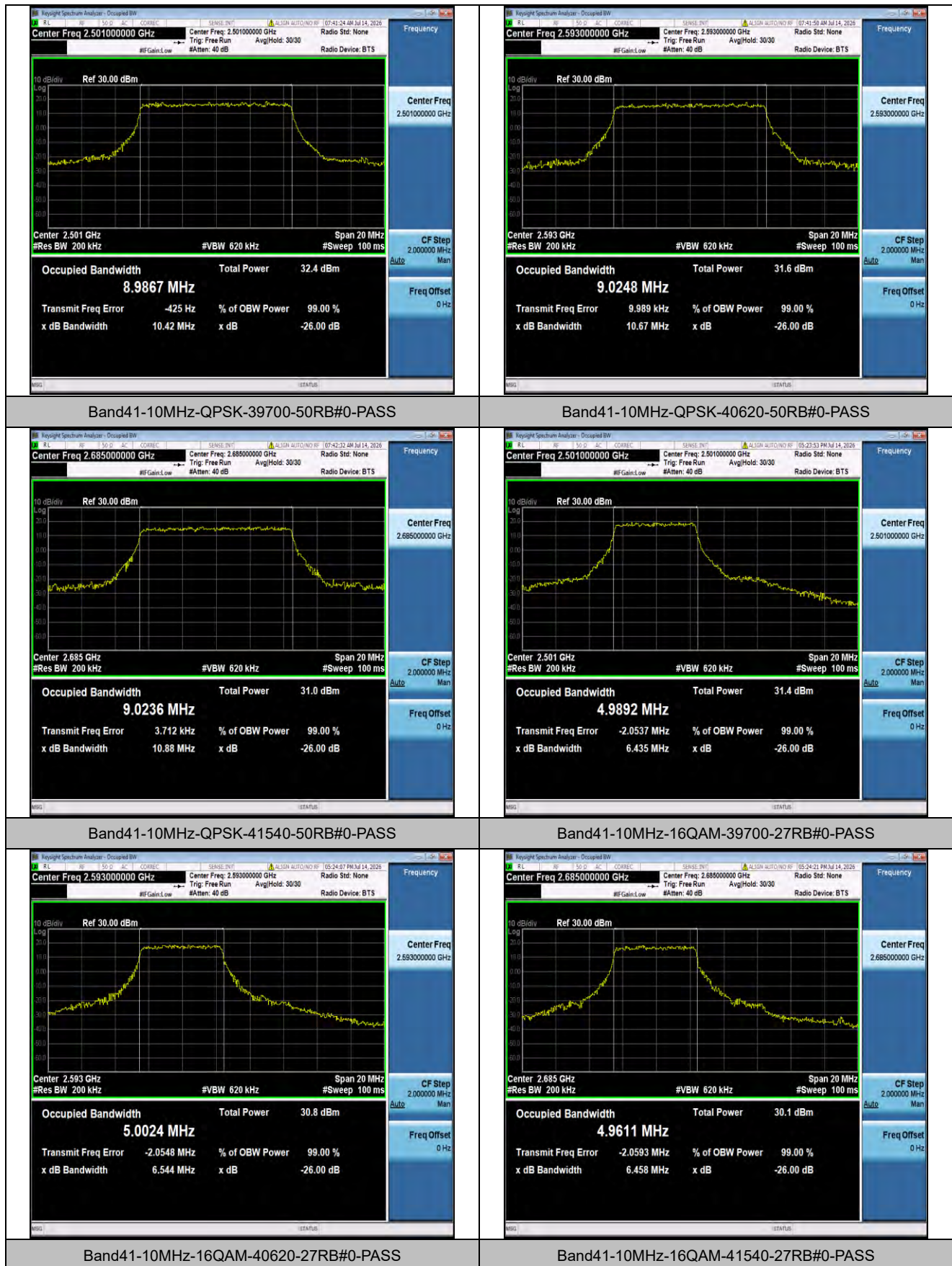
26dB Bandwidth and Occupied Bandwidth

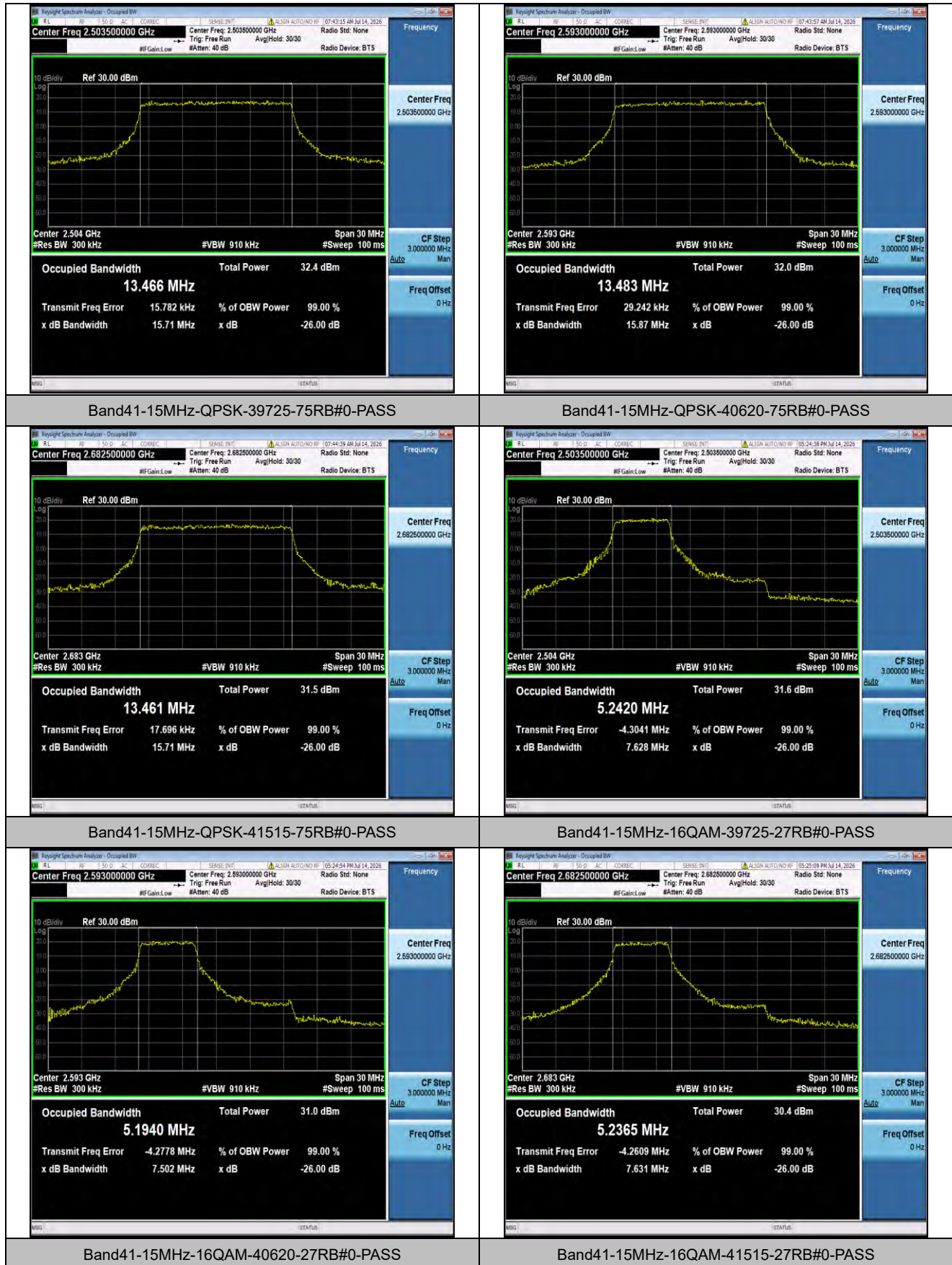
Test Result

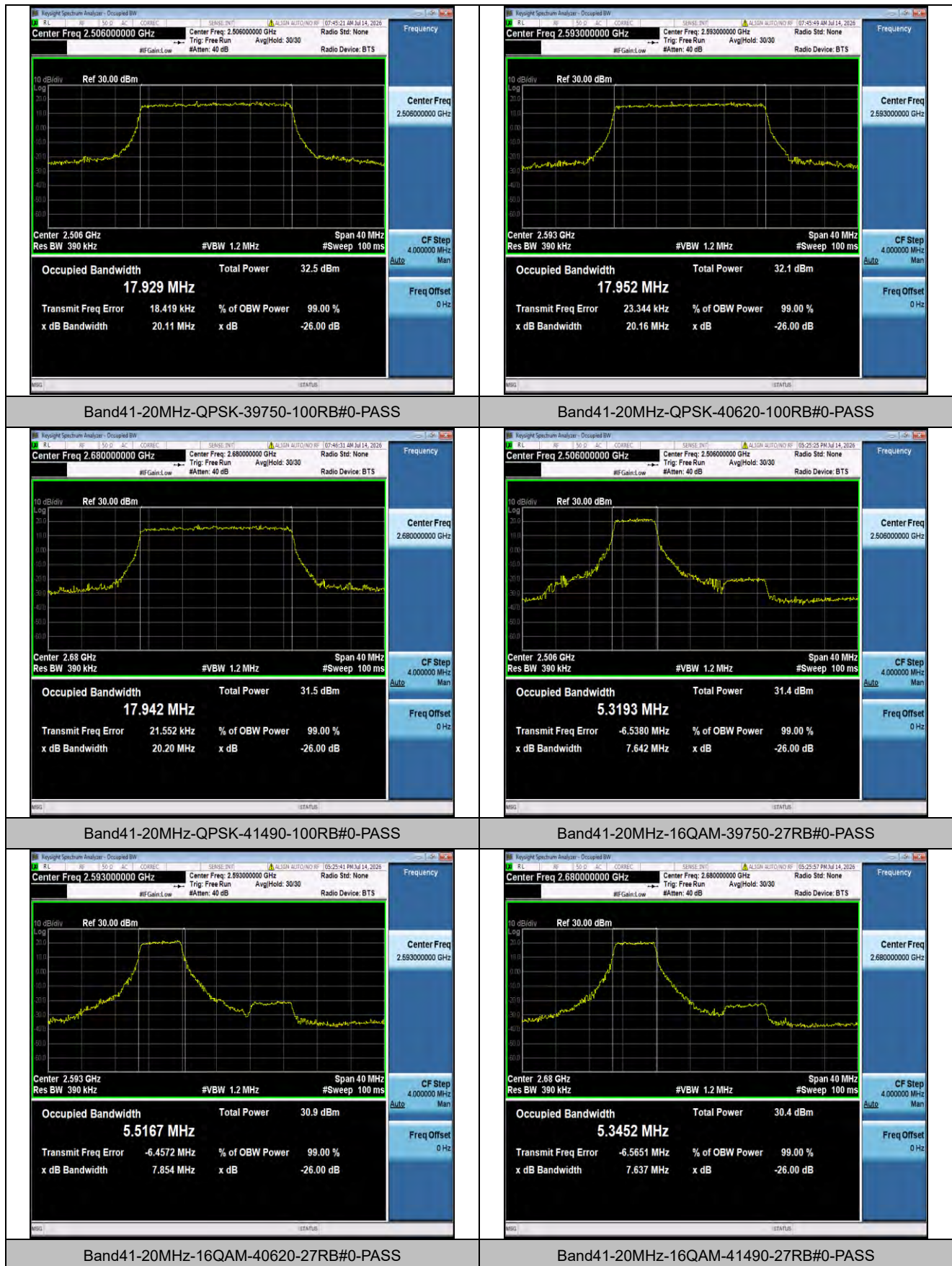
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5123	5.552	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5003	5.274	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.5305	5.422	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5118	5.434	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.5165	5.434	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.5261	5.573	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9867	10.42	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.0248	10.67	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.0236	10.88	PASS
Band41	10MHz	16QAM	39700	27RB#0	4.9892	6.435	PASS
Band41	10MHz	16QAM	40620	27RB#0	5.0024	6.544	PASS
Band41	10MHz	16QAM	41540	27RB#0	4.9611	6.458	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.466	15.71	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.483	15.87	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.461	15.71	PASS
Band41	15MHz	16QAM	39725	27RB#0	5.2420	7.628	PASS
Band41	15MHz	16QAM	40620	27RB#0	5.1940	7.502	PASS
Band41	15MHz	16QAM	41515	27RB#0	5.2365	7.631	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.929	20.11	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.952	20.16	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.942	20.20	PASS
Band41	20MHz	16QAM	39750	27RB#0	5.3193	7.642	PASS
Band41	20MHz	16QAM	40620	27RB#0	5.5167	7.854	PASS
Band41	20MHz	16QAM	41490	27RB#0	5.3452	7.637	PASS

Test Graphs



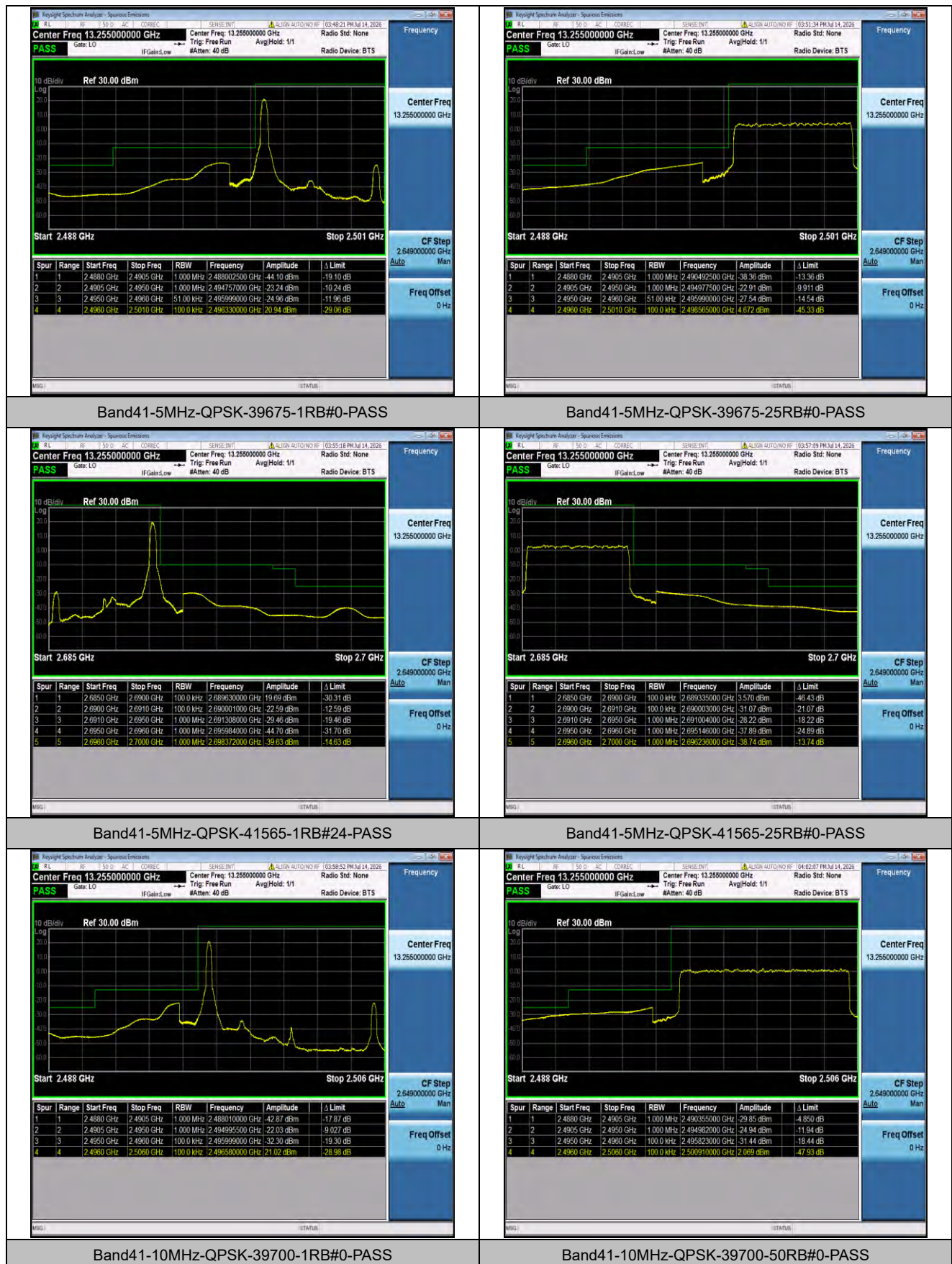


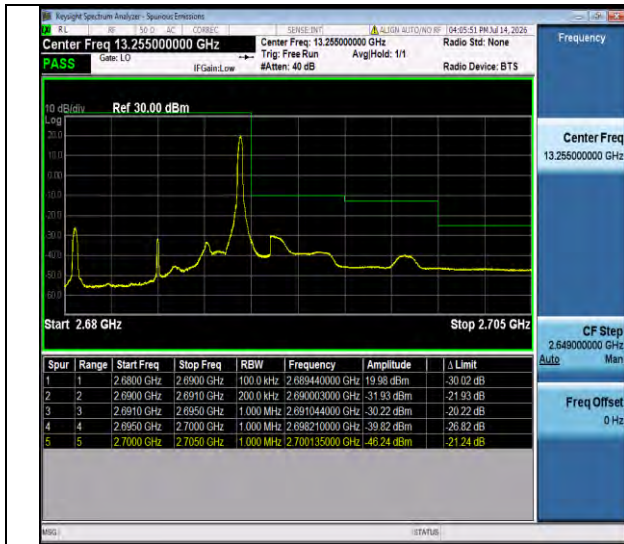




Band Edge

Test Graphs





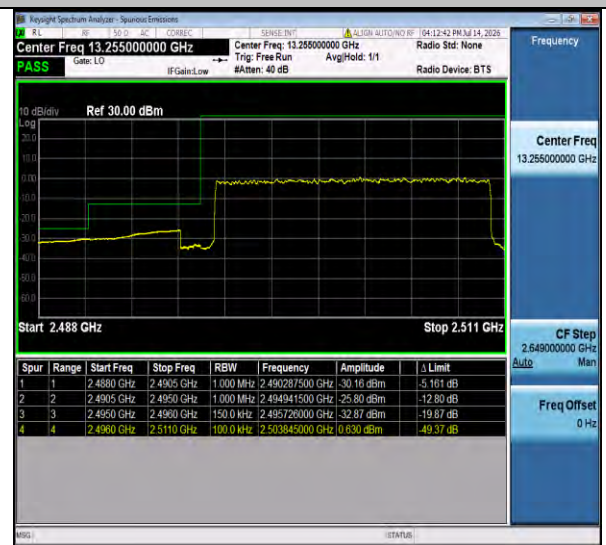
Band41-10MHz-QPSK-41540-1RB#49-PASS



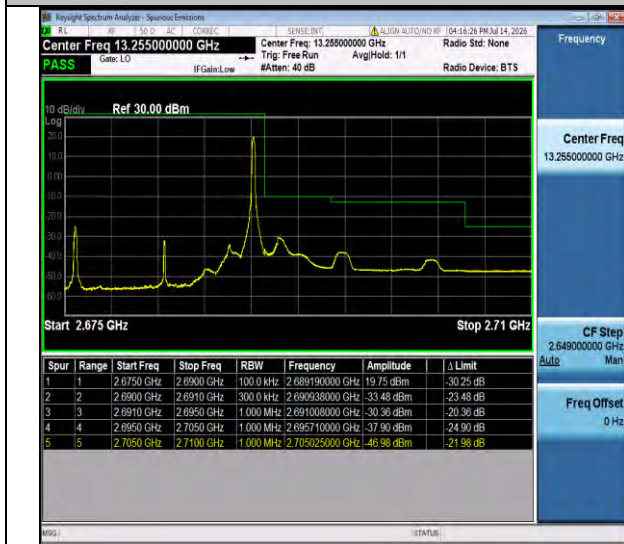
Band41-10MHz-QPSK-41540-50RB#0-PASS



Band41-15MHz-QPSK-39725-1RB#0-PASS



Band41-15MHz-QPSK-39725-75RB#0-PASS



Band41-15MHz-QPSK-41515-1RB#74-PASS



Band41-15MHz-QPSK-41515-75RB#0-PASS



Band41-20MHz-QPSK-39750-1RB#0-PASS



Band41-20MHz-QPSK-39750-100RB#0-PASS



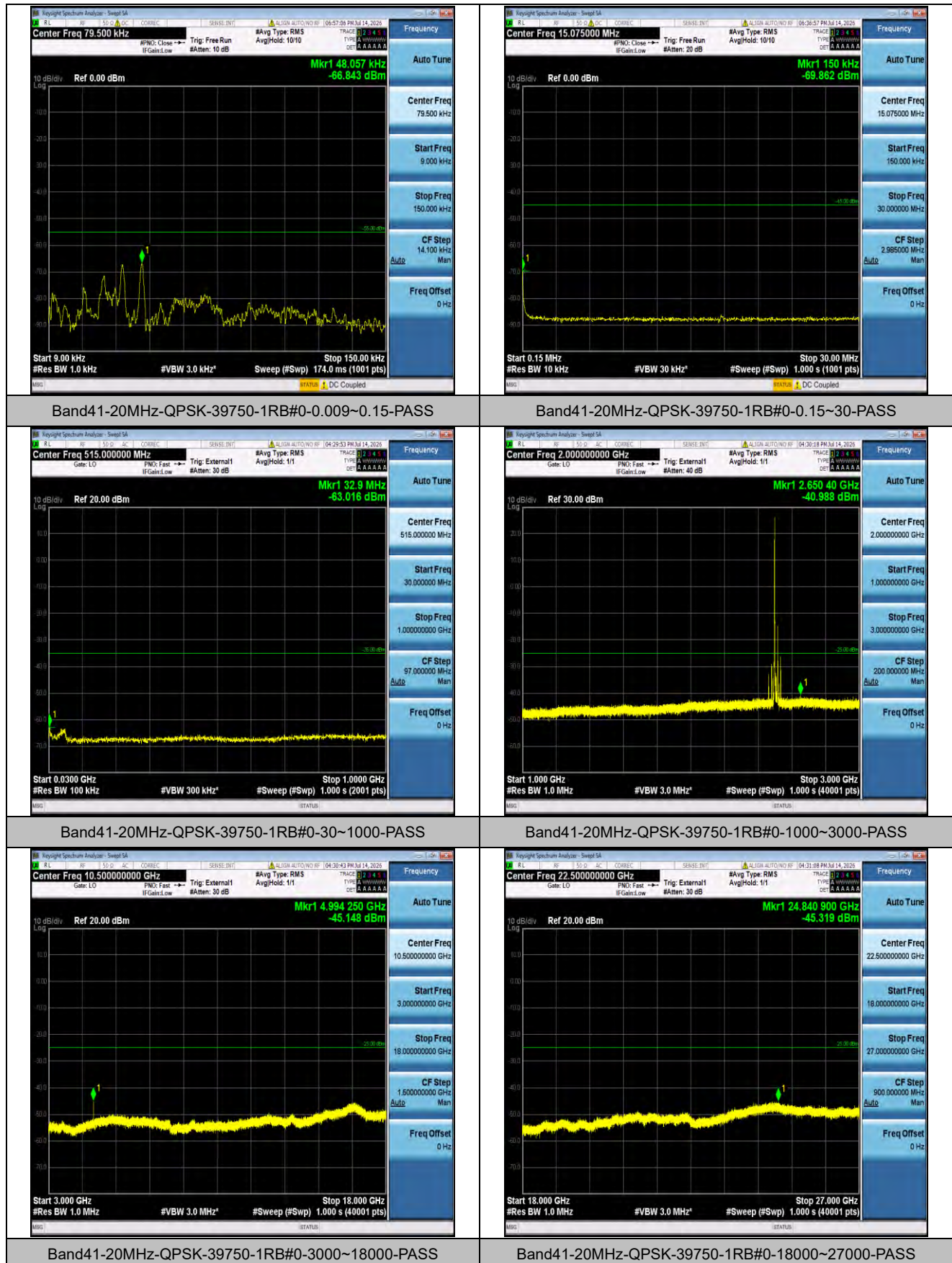
Band41-20MHz-QPSK-41490-1RB#99-PASS

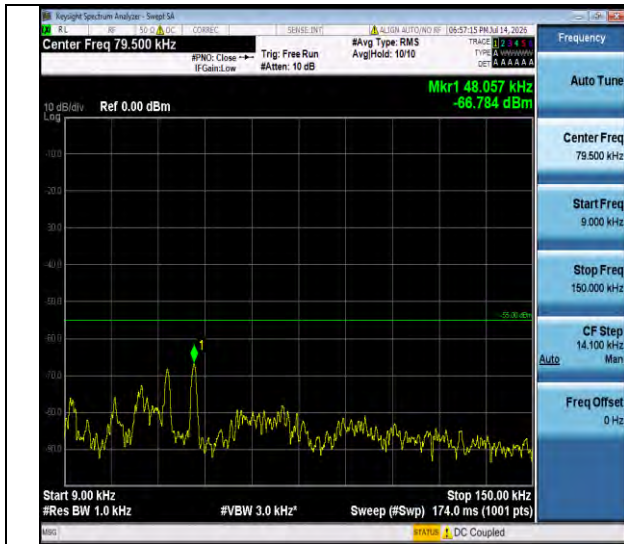


Band41-20MHz-QPSK-41490-100RB#0-PASS

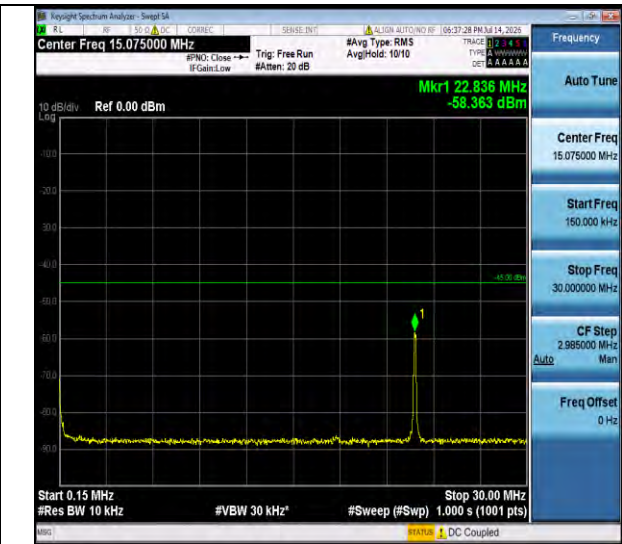
Conducted Spurious Emission

Test Graphs

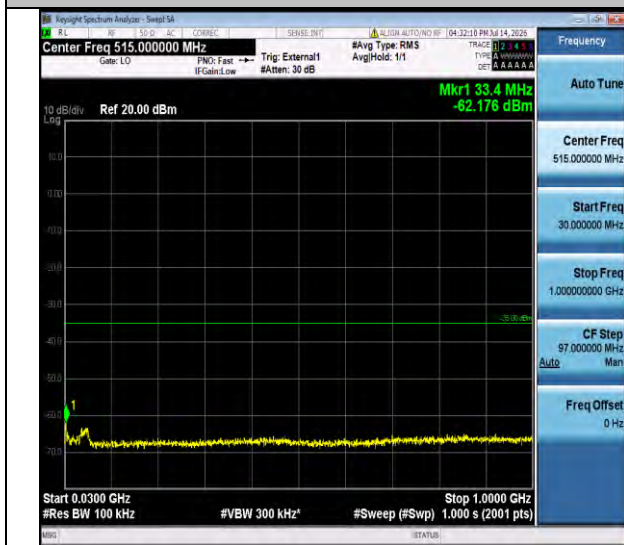




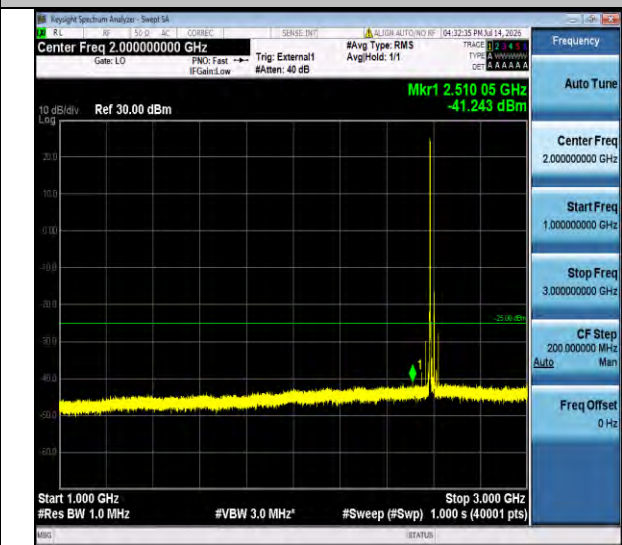
Band41-20MHz-QPSK-40620-1RB#0-0.009~0.15-PASS



Band41-20MHz-QPSK-40620-1RB#0-0.15~30-PASS



Band41-20MHz-QPSK-40620-1RB#0-30~1000-PASS



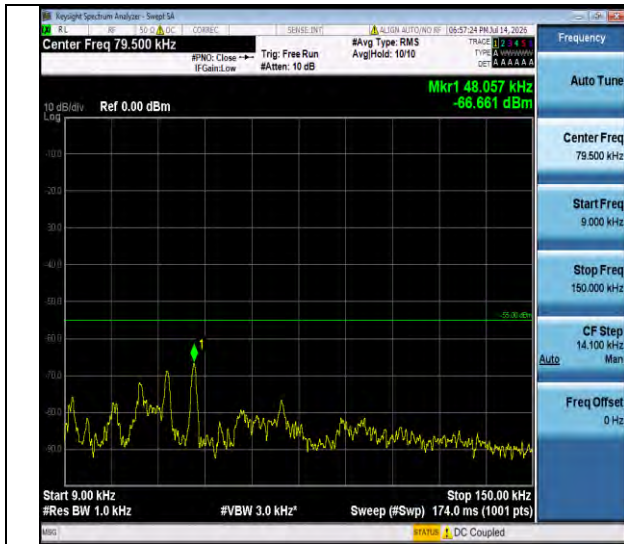
Band41-20MHz-QPSK-40620-1RB#0-1000~3000-PASS



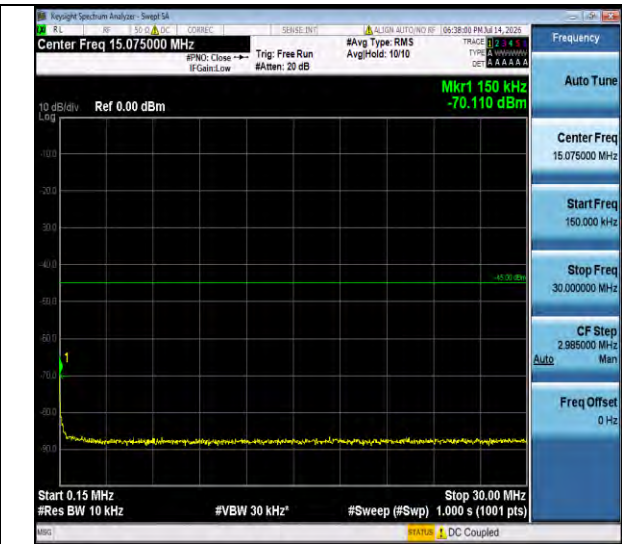
Band41-20MHz-QPSK-40620-1RB#0-3000~18000-PASS



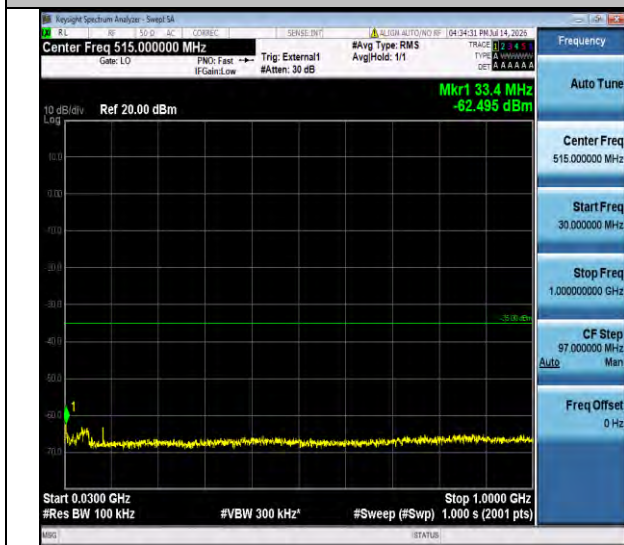
Band41-20MHz-QPSK-40620-1RB#0-18000~27000-PASS



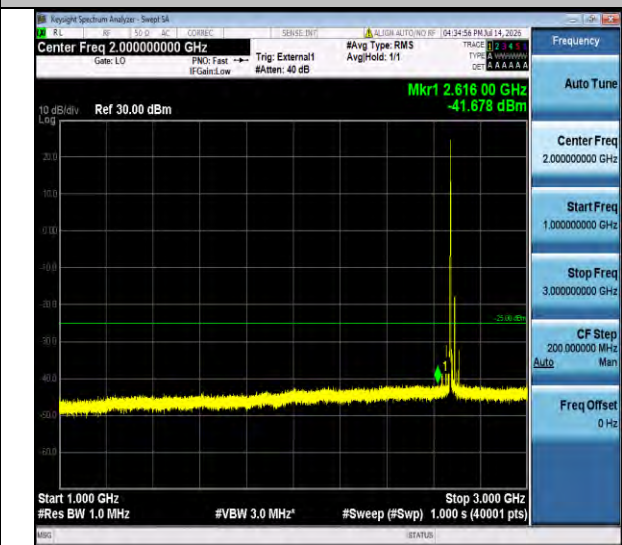
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Band41-20MHz-QPSK-41490-1RB#0-0.15~30-PASS



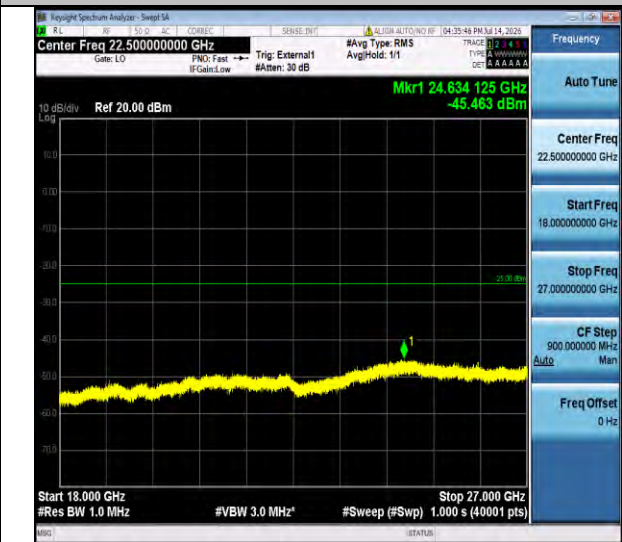
Band41-20MHz-QPSK-41490-1RB#0-30~1000-PASS



Band41-20MHz-QPSK-41490-1RB#0-1000~3000-PASS



Band41-20MHz-QPSK-41490-1RB#0-3000~18000-PASS



Band41-20MHz-QPSK-41490-1RB#0-18000~27000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-26.88	-0.010366	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-25.89	-0.009985	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-27.90	-0.010760	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-30.23	-0.011658	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-25.45	-0.009815	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-28.96	-0.011169	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-29.60	-0.011415	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-24.26	-0.009356	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-26.00	-0.010027	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-24.87	-0.009591	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-29.50	-0.011377	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-22.70	-0.008754	PASS

~The End~