

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	23.34	24.74	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.31	24.71	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.25	24.65	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.57	23.97	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.66	23.06	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.55	22.95	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.66	23.06	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.59	22.99	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.22	24.62	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.25	24.65	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.15	24.55	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.49	23.89	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.53	22.93	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.5	22.9	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.46	22.86	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.73	23.13	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.11	24.51	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.2	24.6	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.01	24.41	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.21	23.61	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.41	22.81	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.55	22.95	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.21	22.61	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.56	22.96	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.35	24.75	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.4	24.8	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.42	24.82	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.59	23.99	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.69	23.09	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.66	23.06	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.76	23.16	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.61	23.01	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.36	24.76	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.45	24.85	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.2	24.6	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.37	23.77	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.67	23.07	33.00	PASS

Band41	10MHz	16QAM	40620	1RB#24	21.52	22.92	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.43	22.83	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.3	22.7	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.25	24.65	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.23	24.63	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.14	24.54	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.27	23.67	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.45	22.85	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.37	22.77	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.44	22.84	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.35	22.75	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.21	24.61	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.26	24.66	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.39	24.79	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.54	23.94	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.52	22.92	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	21.63	23.03	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.47	22.87	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.43	22.83	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.31	24.71	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.14	24.54	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.22	24.62	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.41	23.81	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.65	23.05	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.47	22.87	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.43	22.83	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.42	22.82	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.04	24.44	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.03	24.43	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	22.99	24.39	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.15	23.55	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.38	22.78	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.27	22.67	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.2	22.6	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.2	22.6	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.03	24.43	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.28	24.68	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.18	24.58	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.49	23.89	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.36	22.76	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.54	22.94	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.4	22.8	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.42	22.82	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.41	24.81	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.4	24.8	33.00	PASS

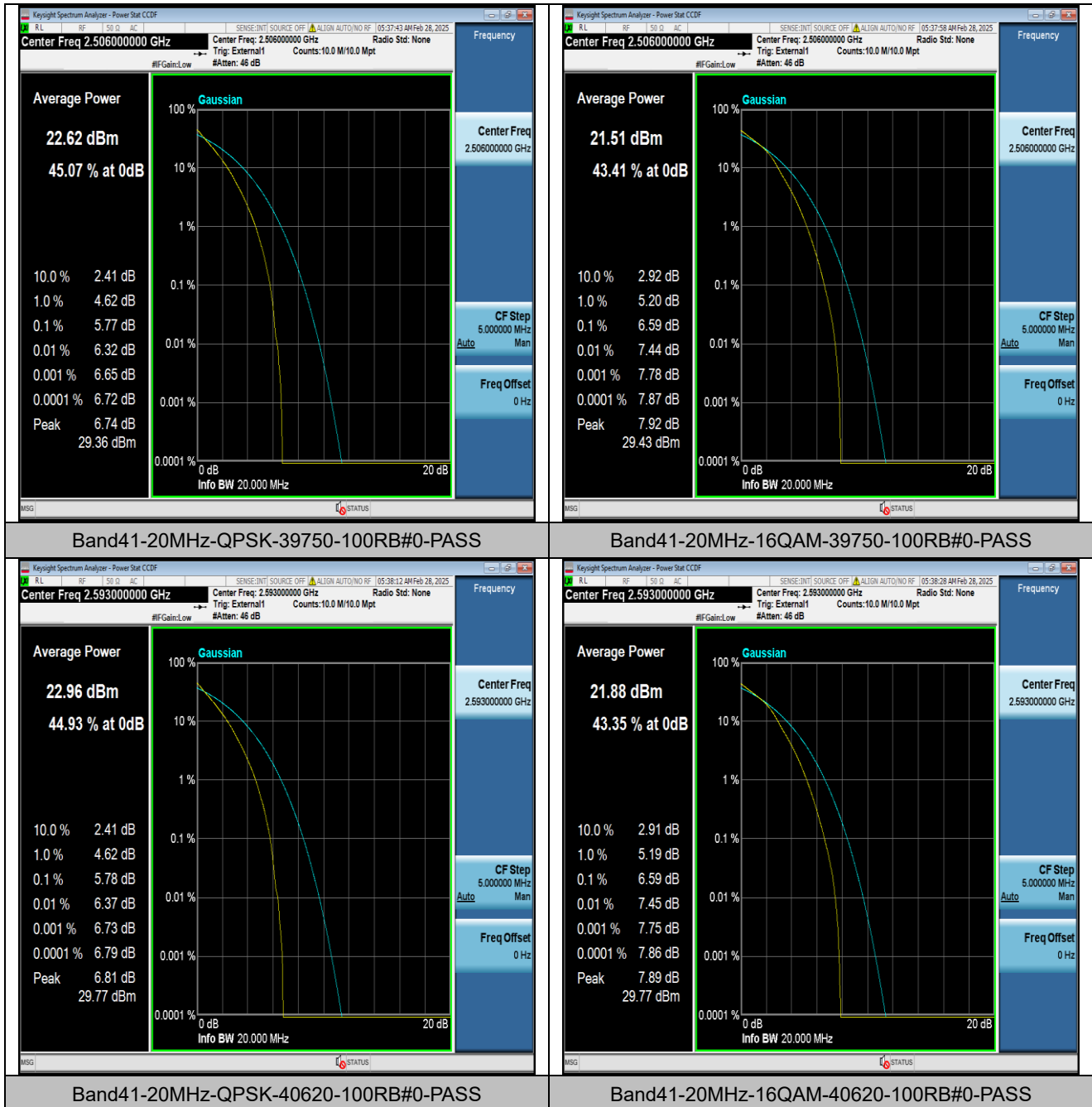
Band41	20MHz	QPSK	40620	1RB#99	23.17	24.57	33.00	PASS
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Band41	20MHz	16QAM	40620	1RB#0	21.55	22.95	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.47	22.87	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.49	22.89	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.42	22.82	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.07	24.47	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.27	24.67	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.91	24.31	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.19	23.59	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	21.39	22.79	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.31	22.71	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.24	22.64	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.26	22.66	33.00	PASS

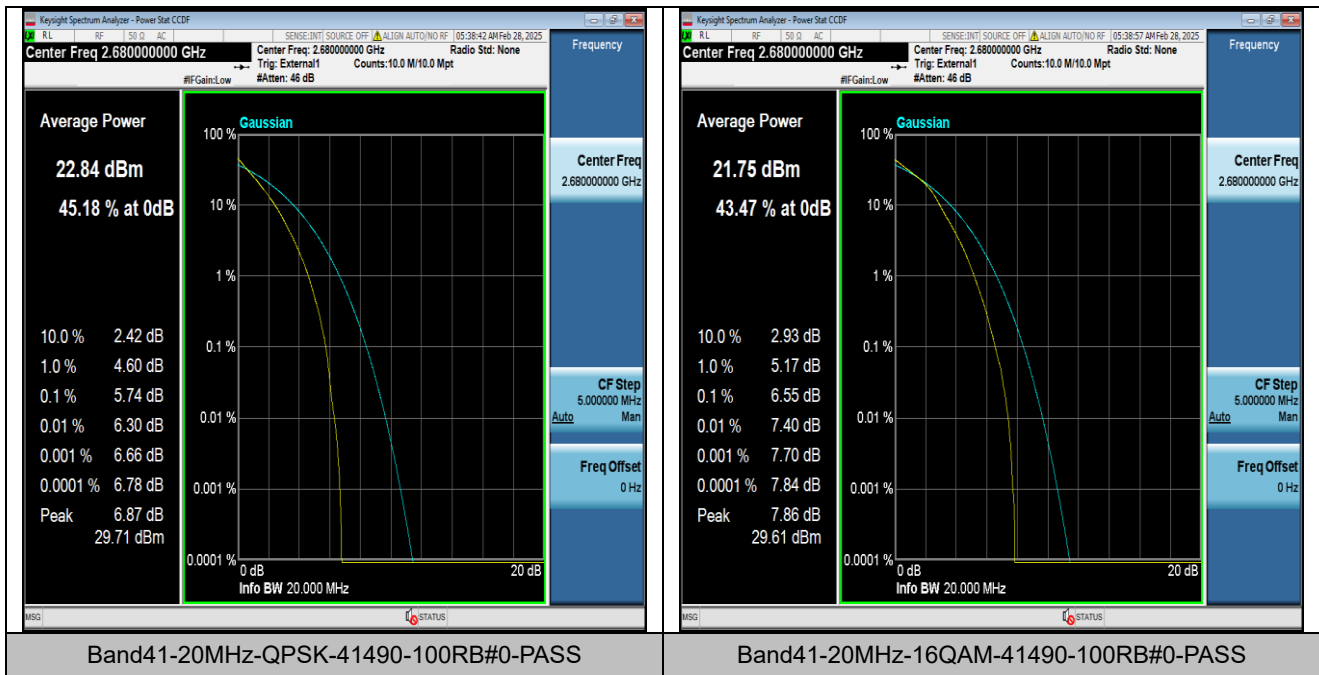
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	5.77	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	6.59	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.78	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.59	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.74	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	6.55	13	PASS

Test Graphs



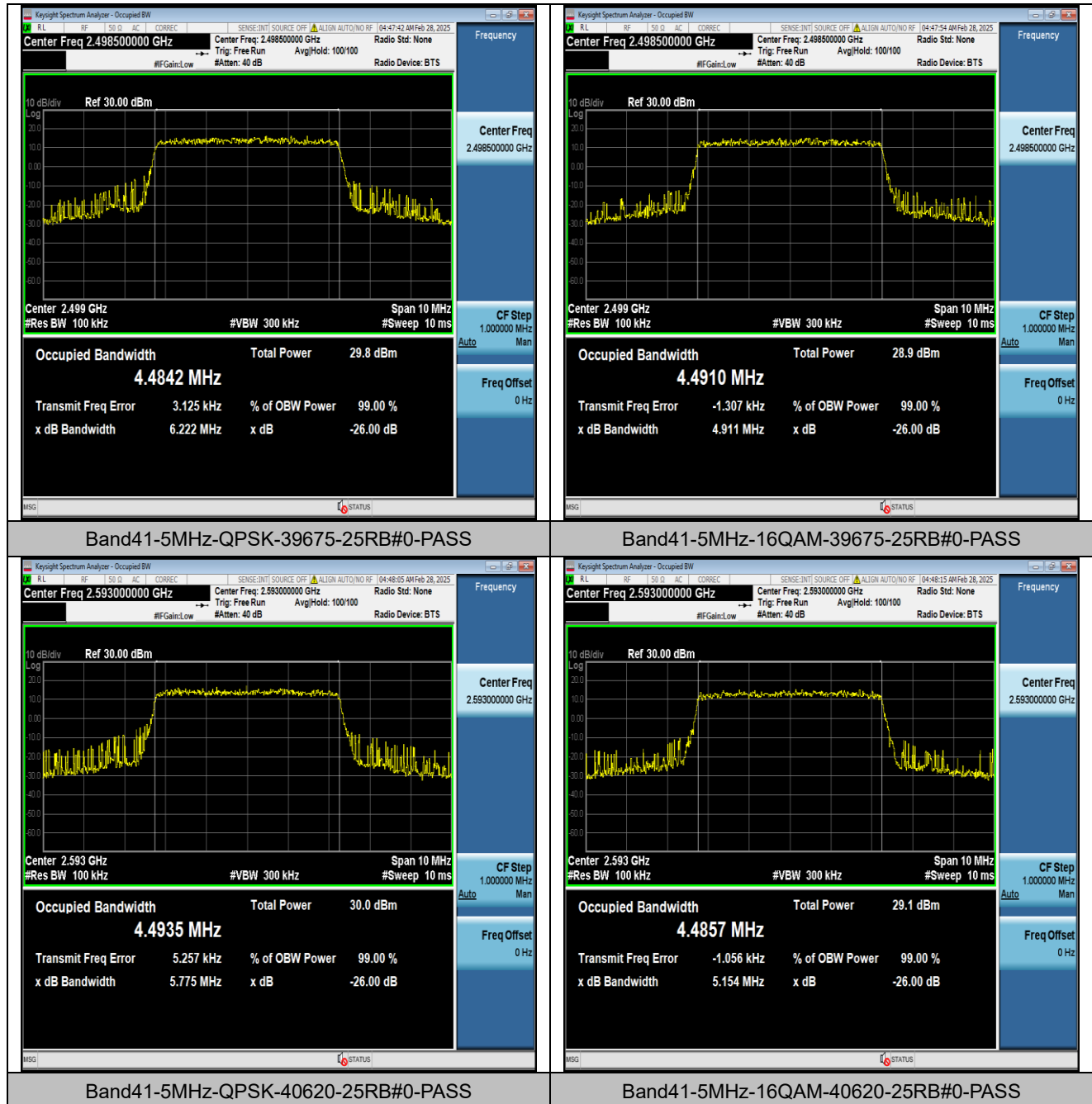


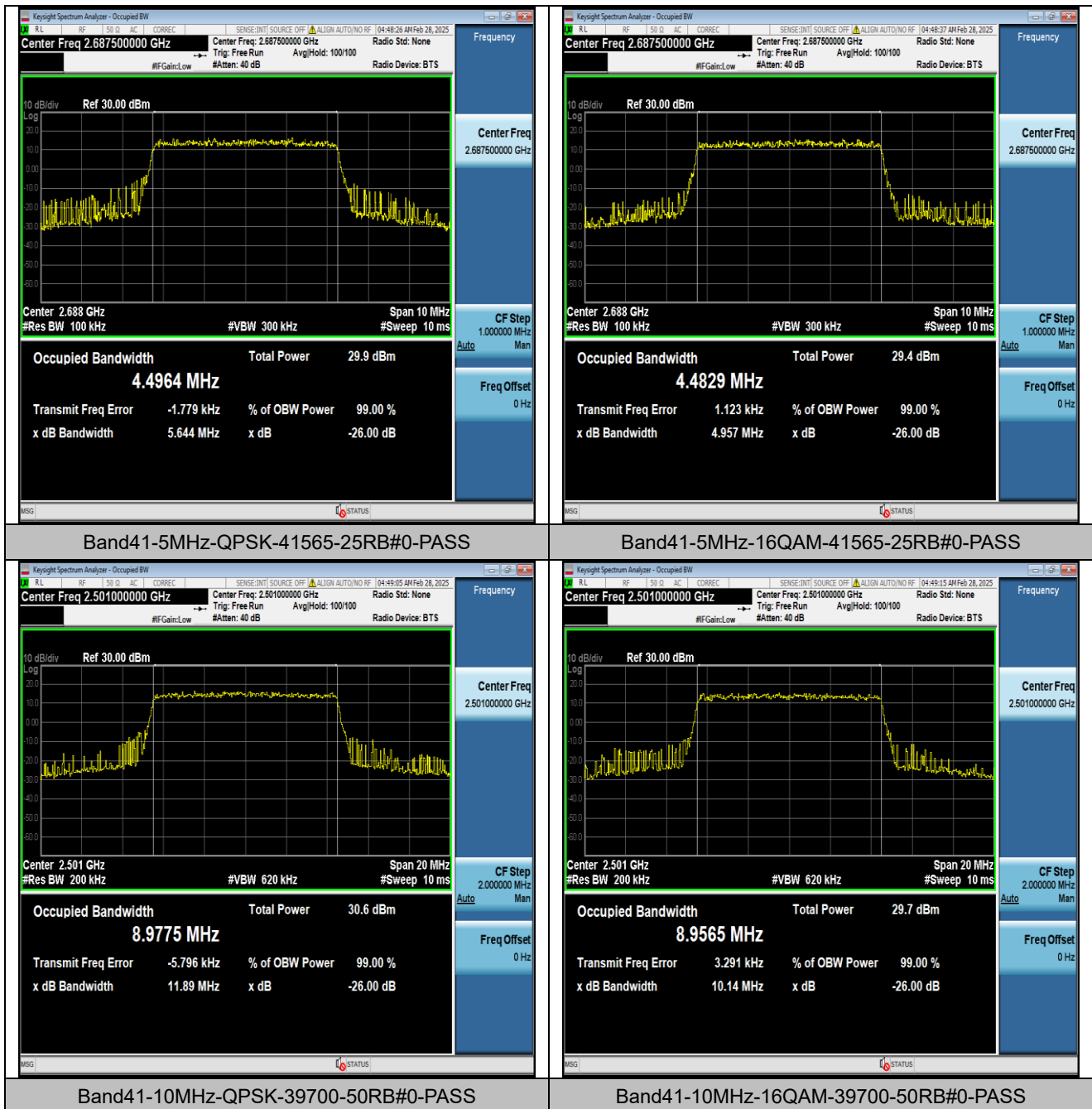
26dB Bandwidth and Occupied Bandwidth

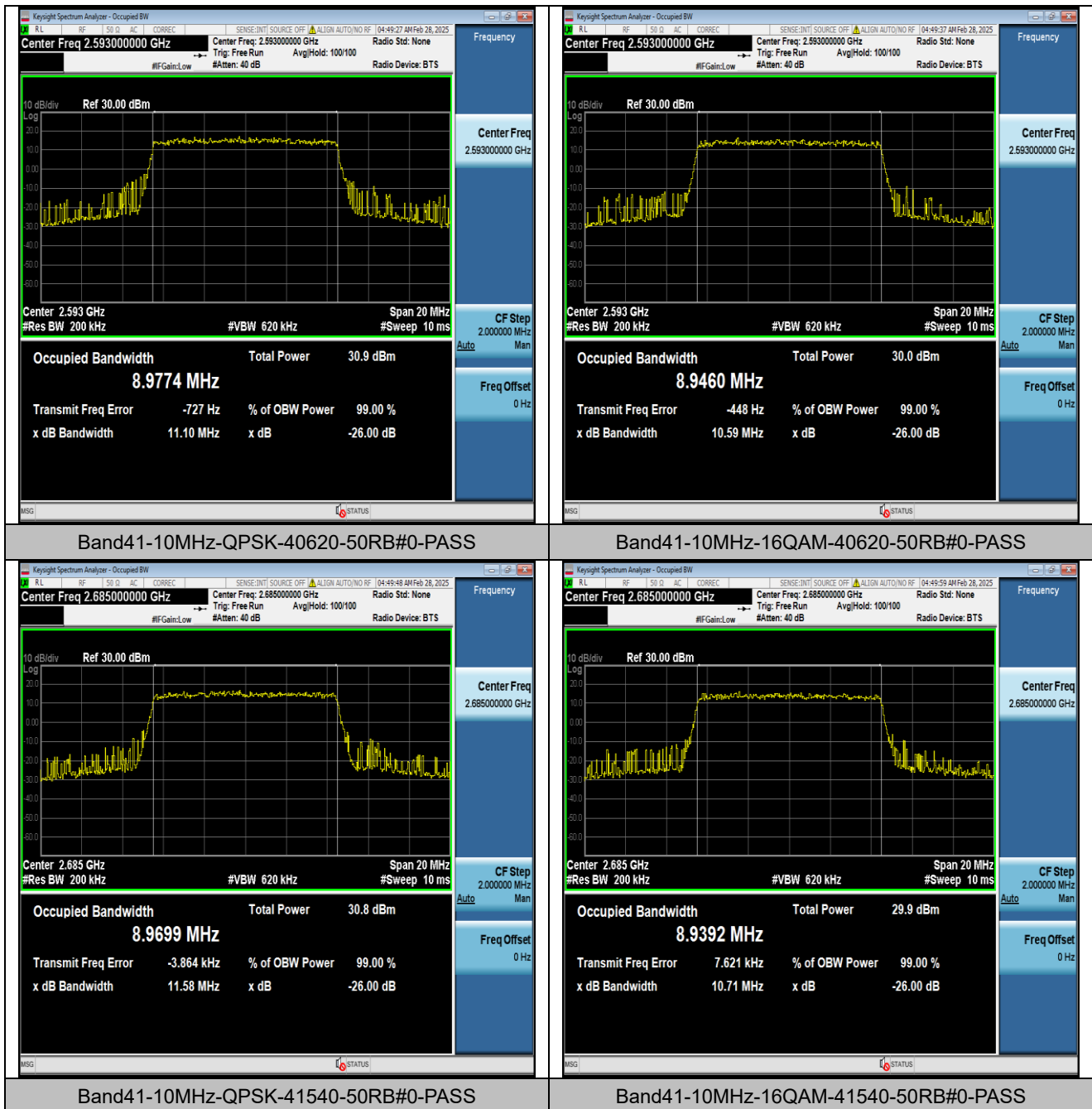
Test Result

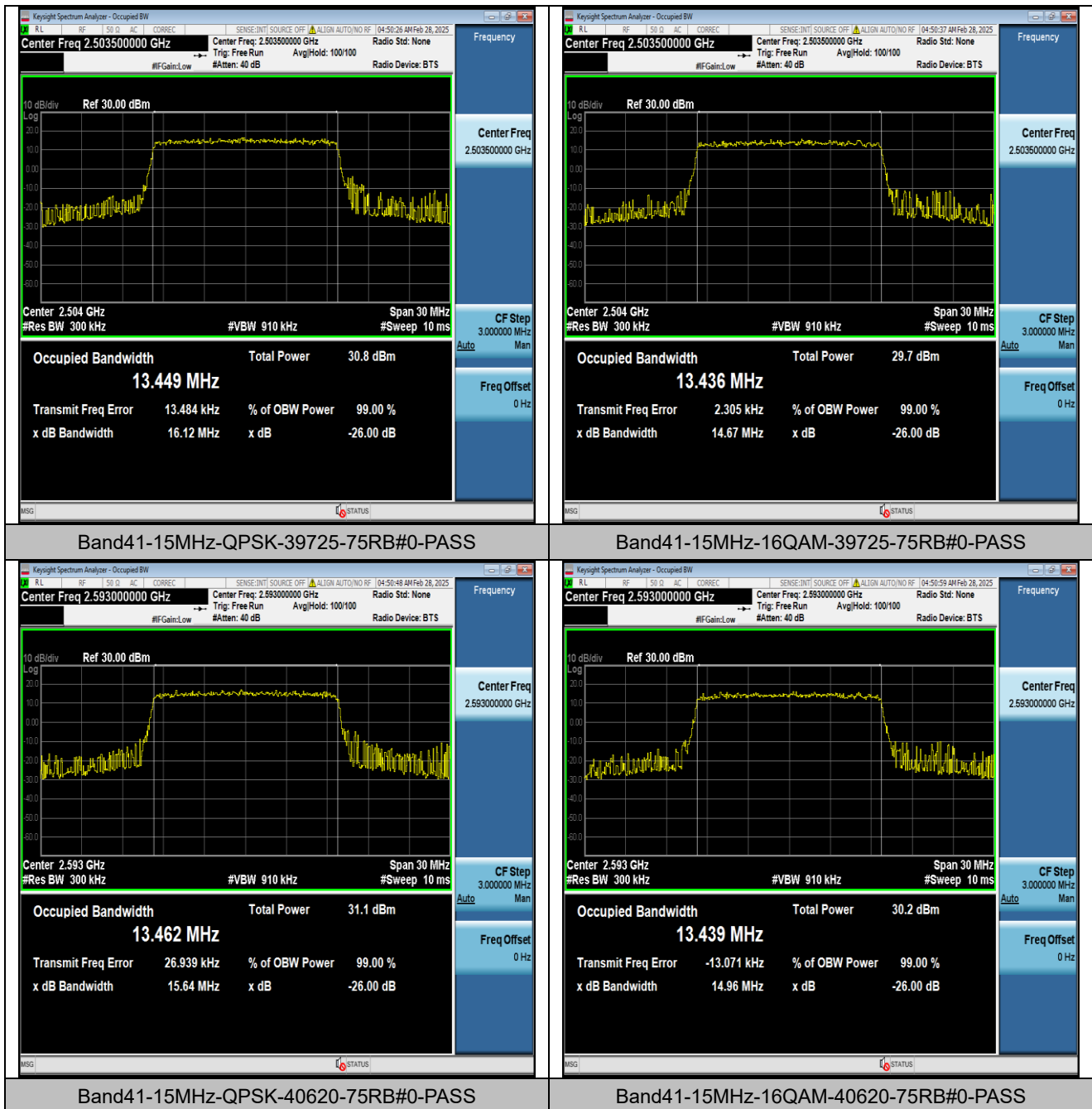
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4842	6.222	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4910	4.911	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4935	5.775	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4857	5.154	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4964	5.644	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4829	4.957	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9775	11.89	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9565	10.14	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9774	11.10	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9460	10.59	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9699	11.58	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9392	10.71	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.449	16.12	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.436	14.67	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.462	15.64	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.439	14.96	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.449	15.47	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.442	14.64	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.889	19.43	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.874	20.49	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.913	19.54	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.876	20.66	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.936	19.32	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.894	20.87	PASS

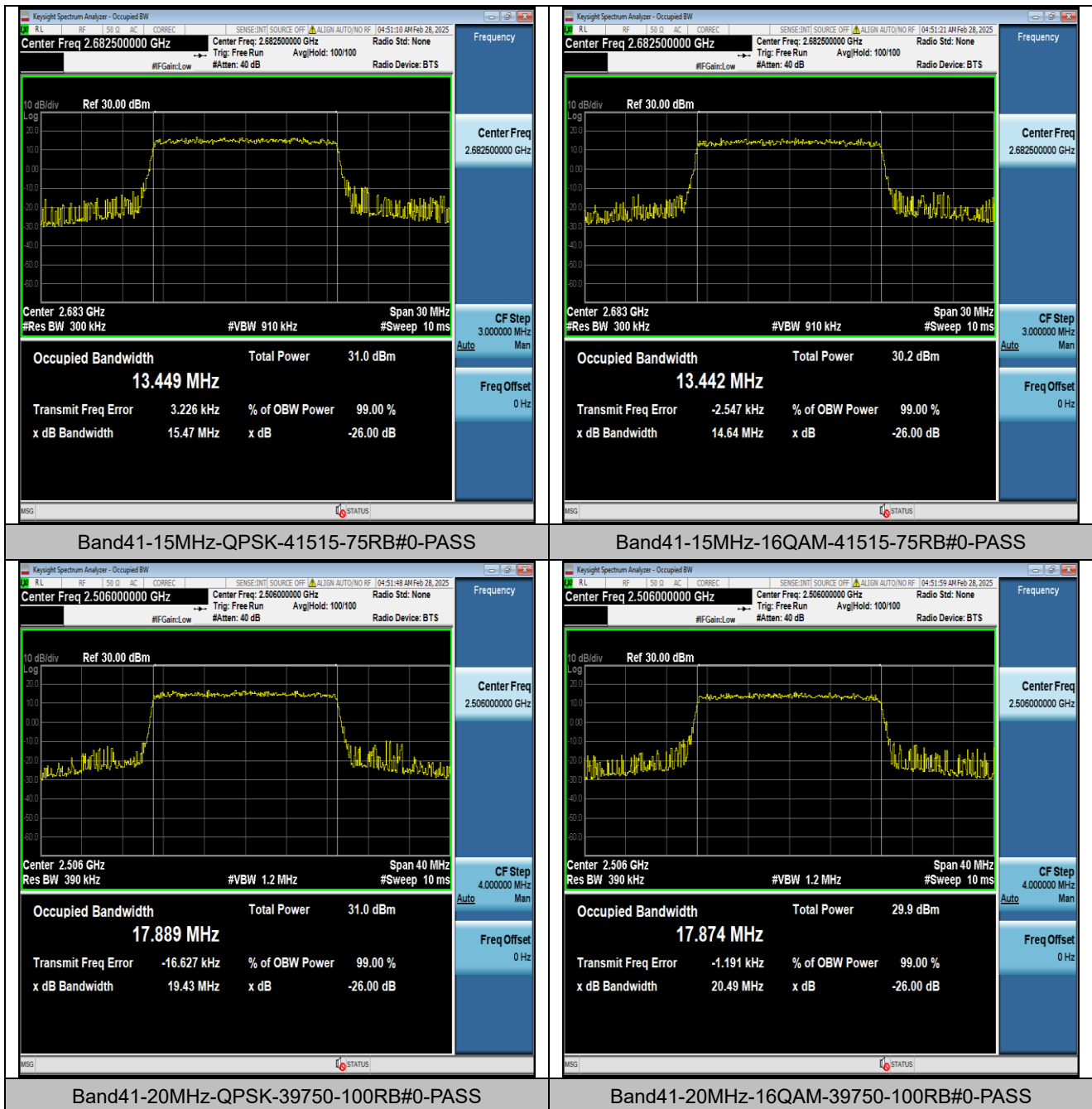
Test Graphs

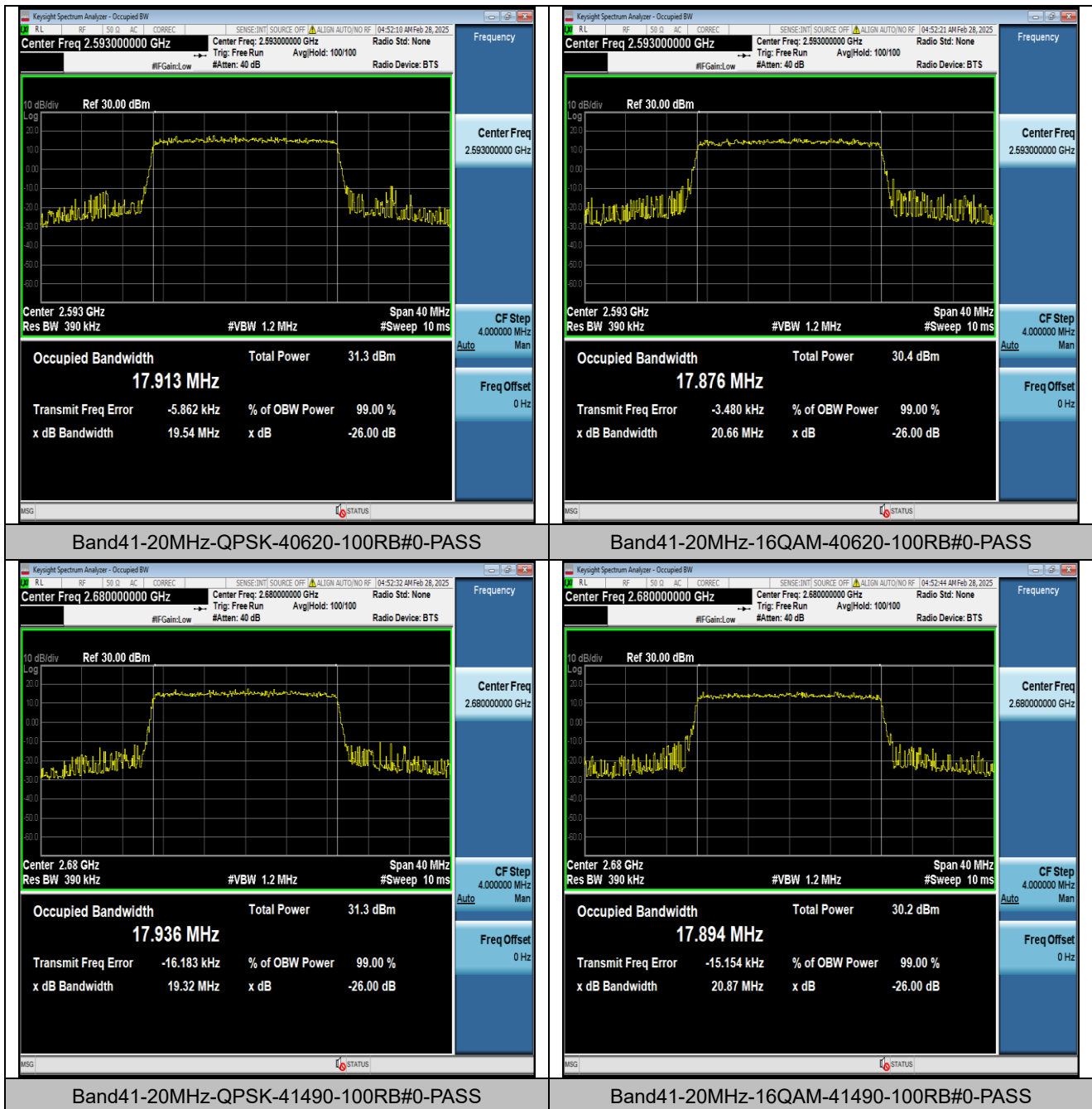






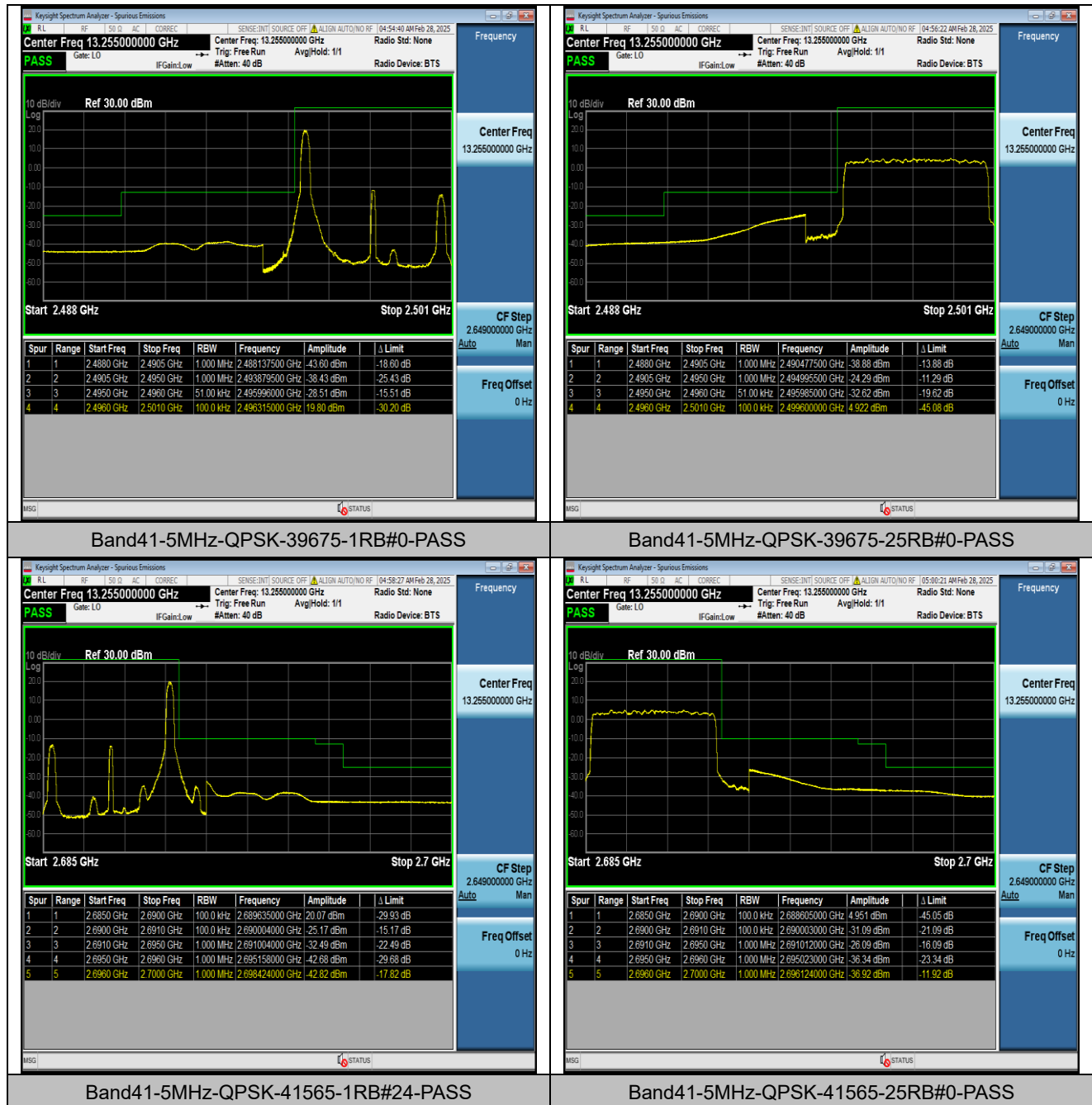


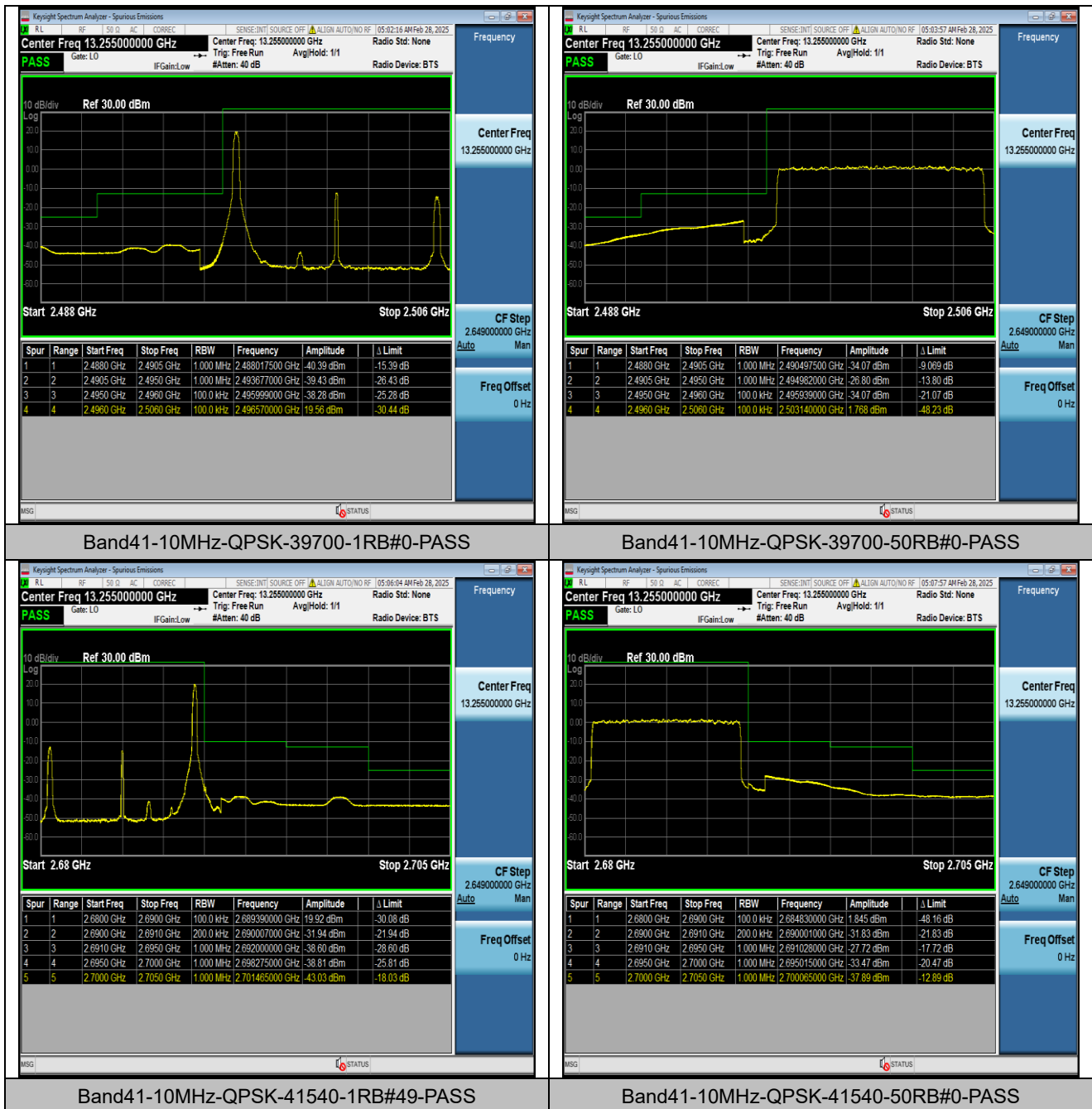


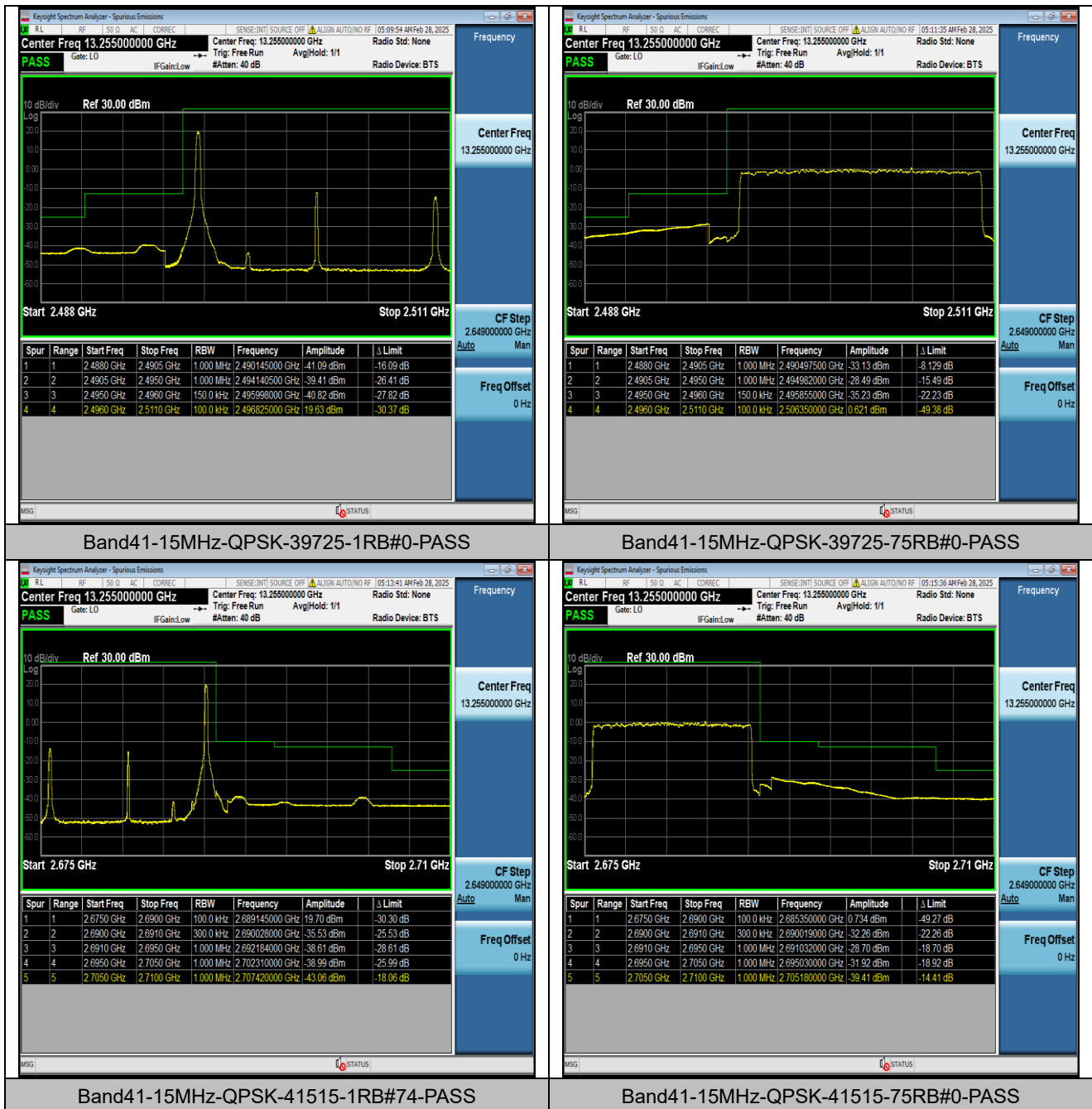


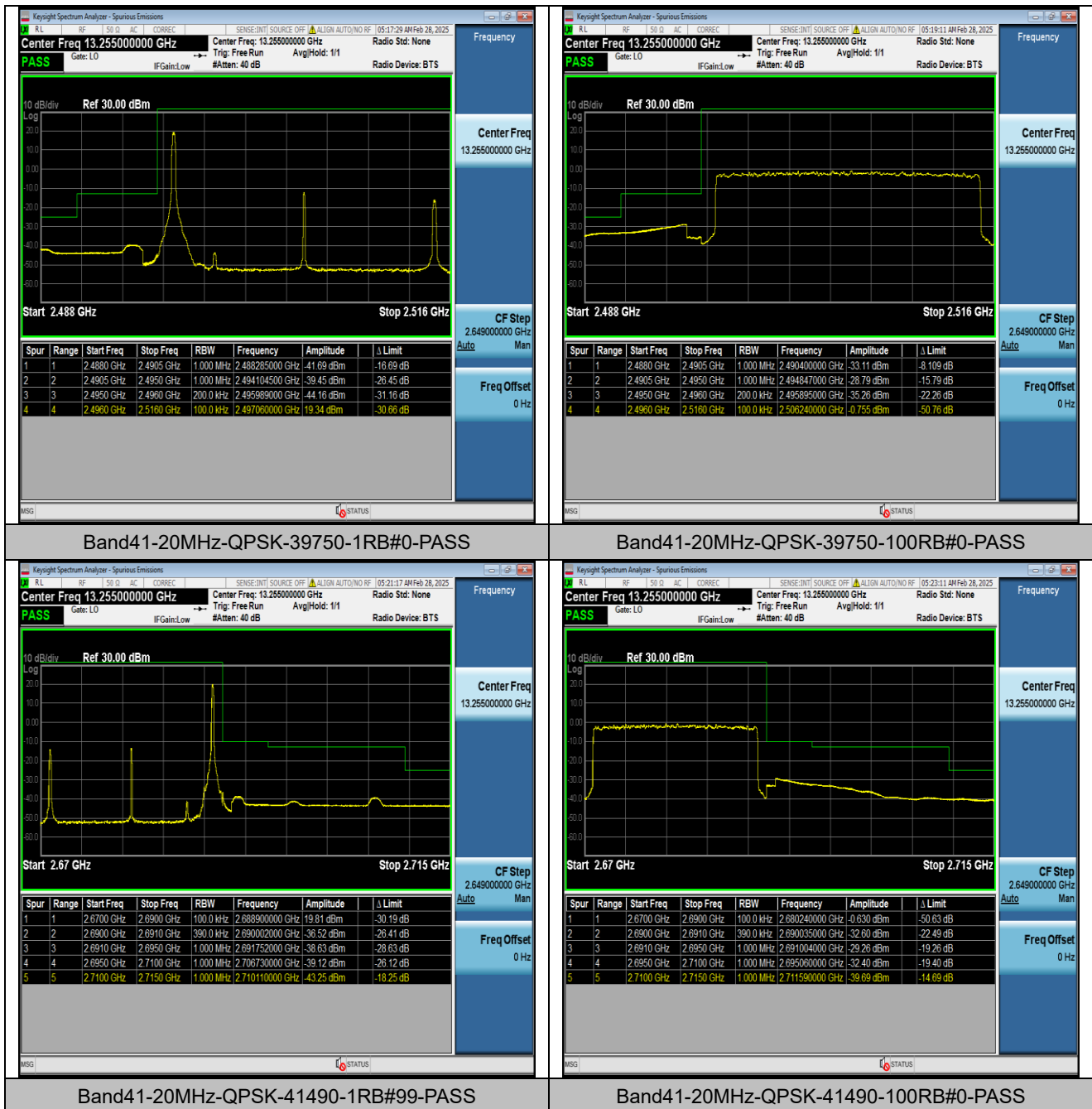
Band Edge

Test Graphs



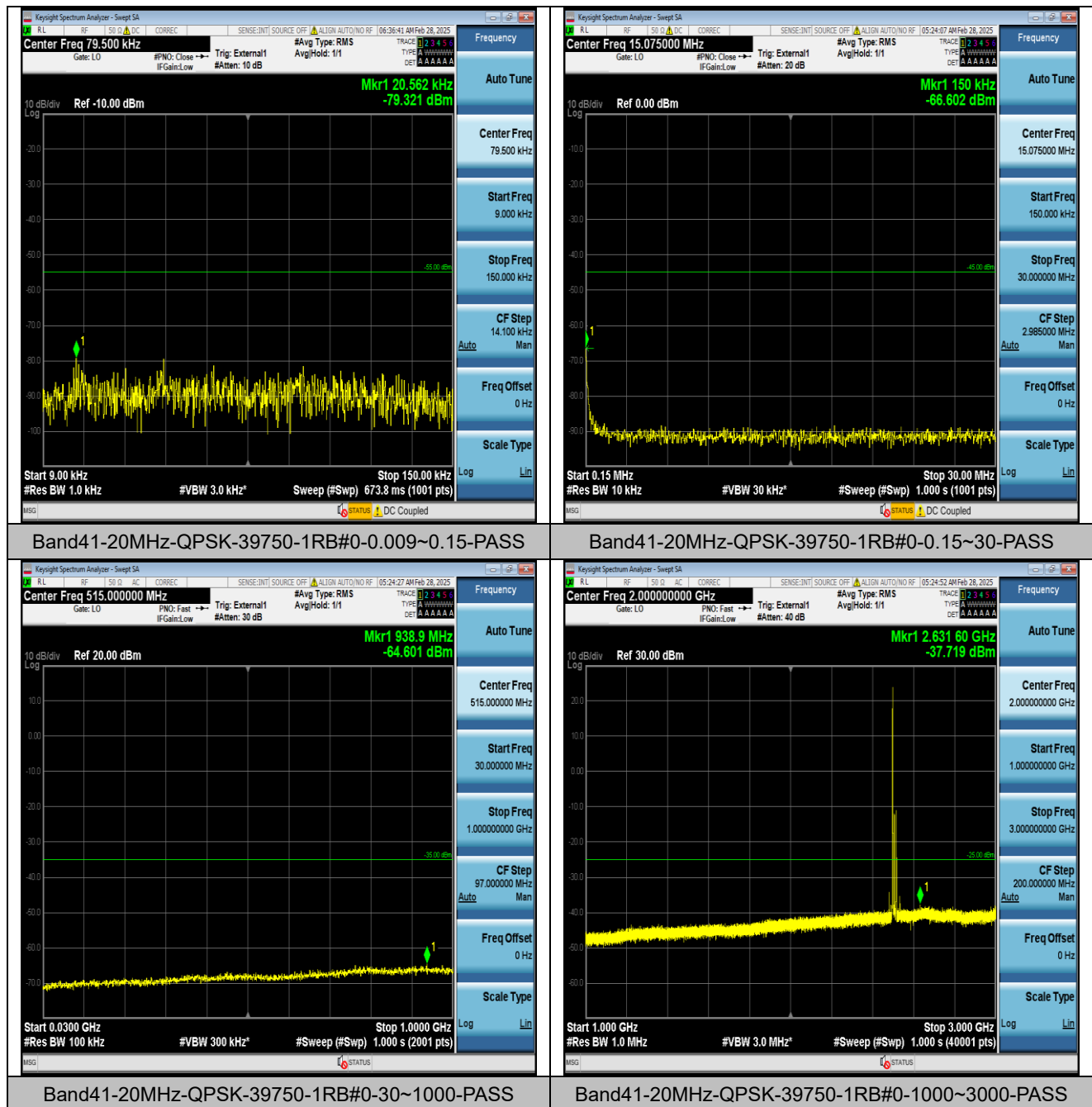


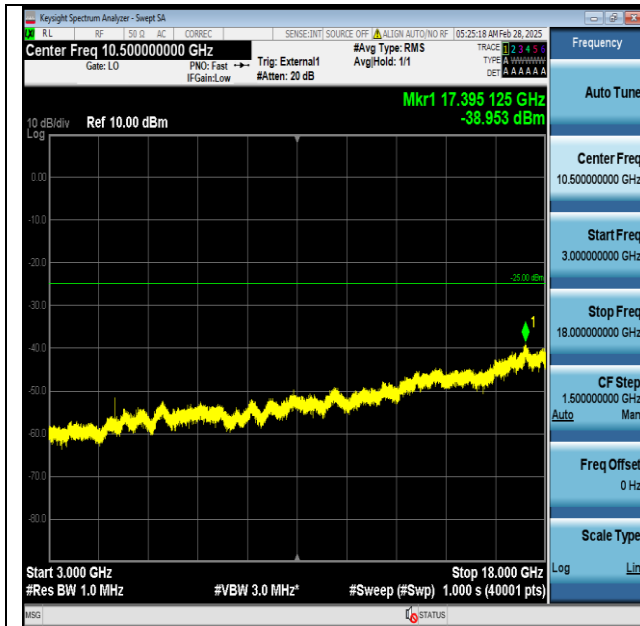




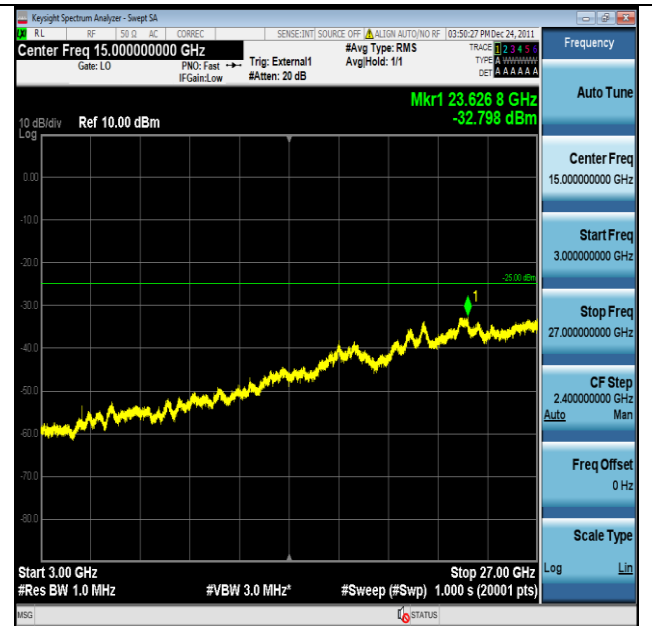
Conducted Spurious Emission

Test Graphs

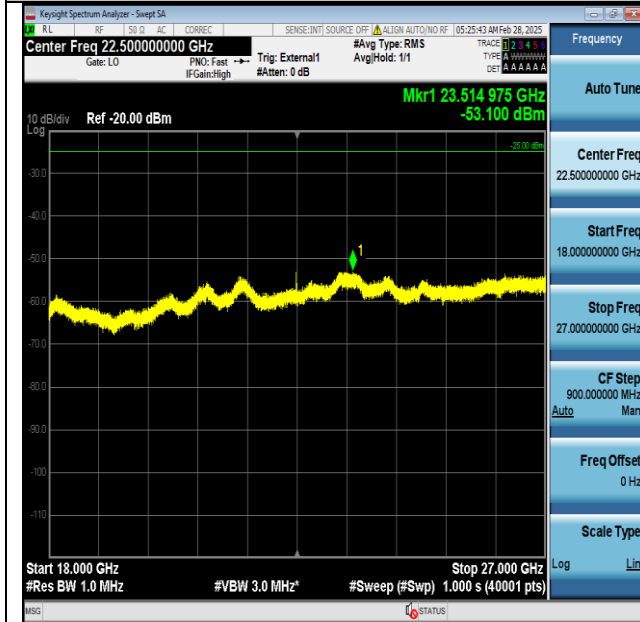




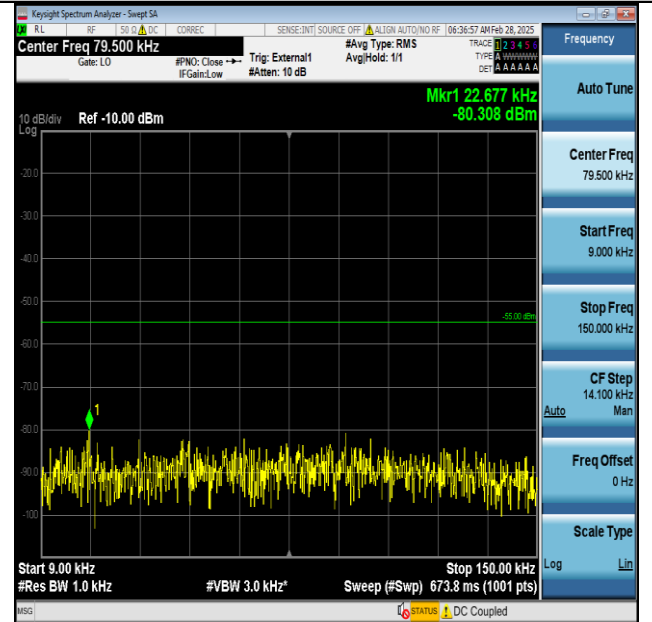
Band41-20MHz-QPSK-39750-1RB#0-3000~18000-PASS



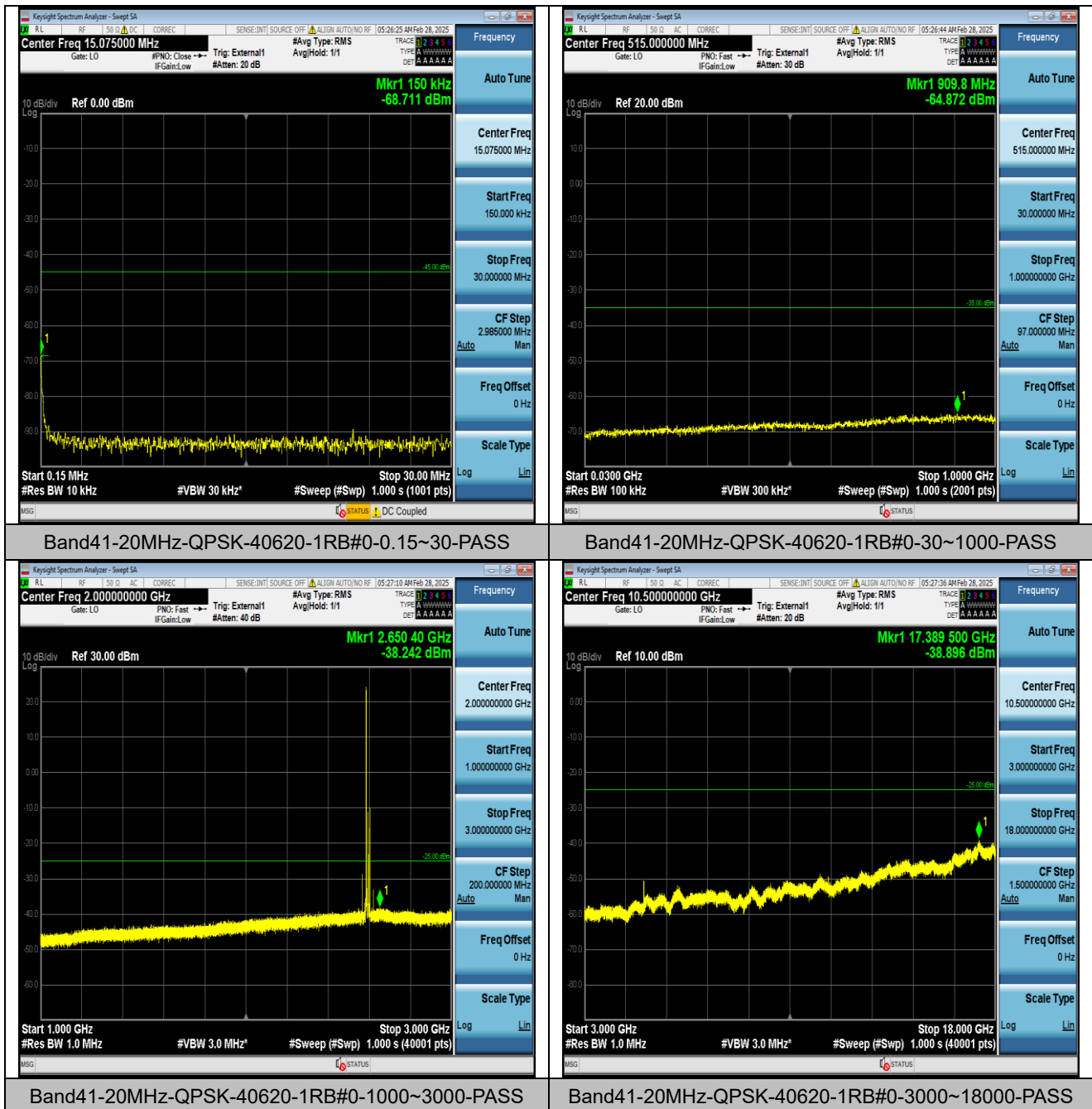
Band41-20MHz-QPSK-39750-1RB#0-3000~27000-PASS

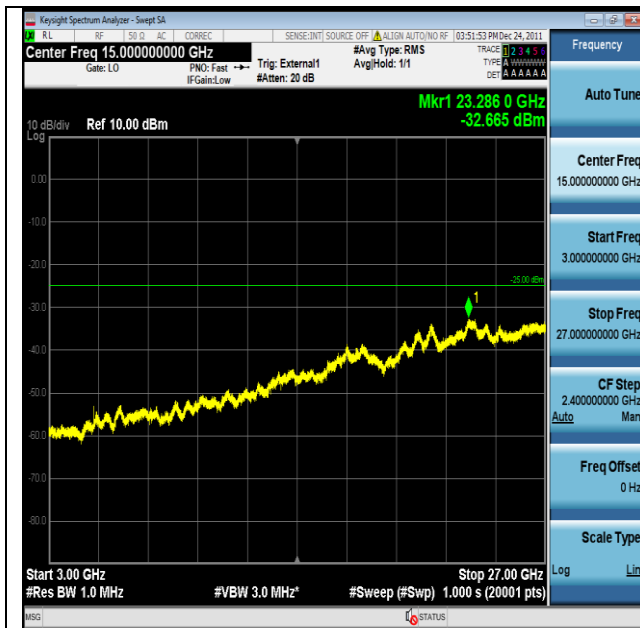


Band41-20MHz-QPSK-39750-1RB#0-18000~27000-PASS

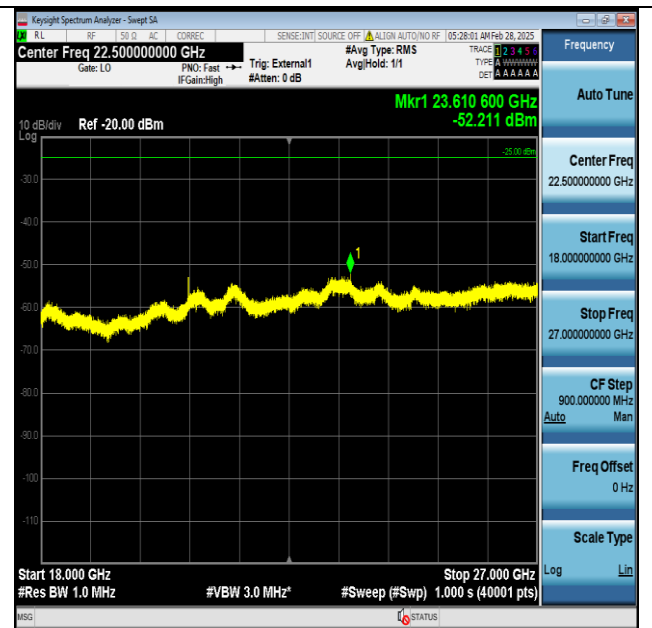


Band41-20MHz-QPSK-40620-1RB#0-0.009~0.15-PASS

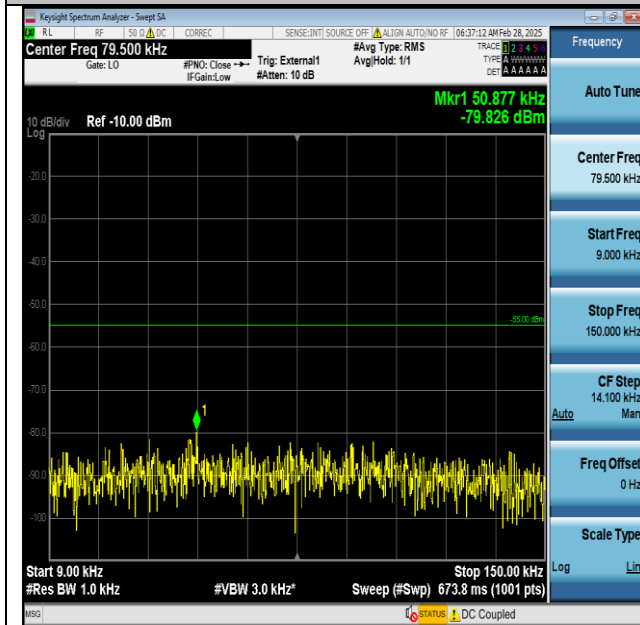




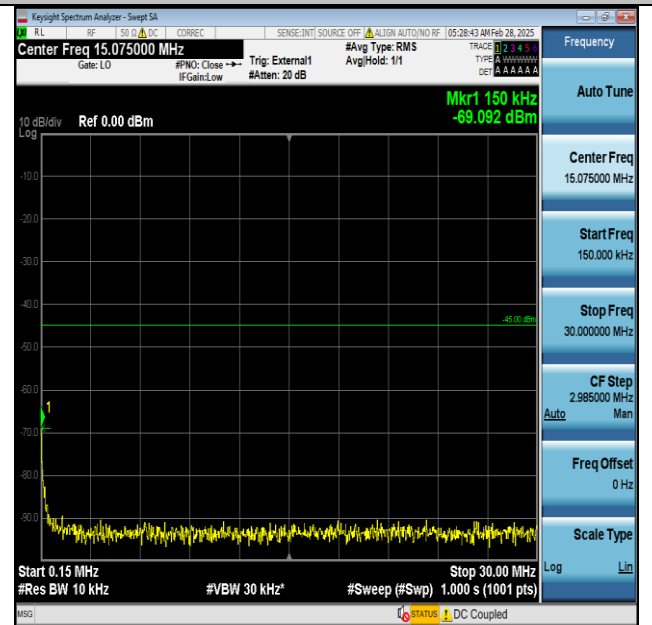
Band41-20MHz-QPSK-40620-1RB#0-3000~27000-PASS



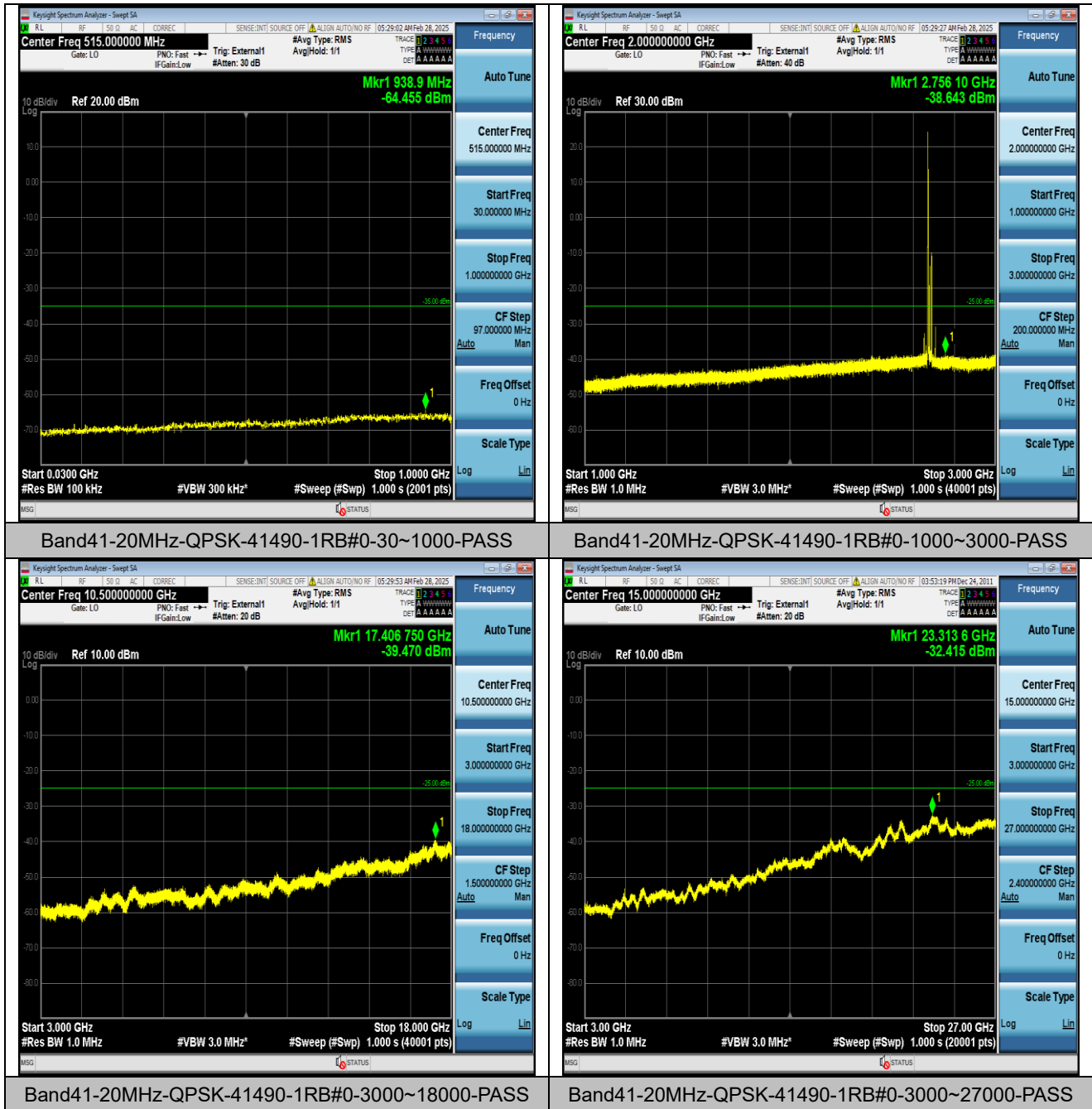
Band41-20MHz-QPSK-40620-1RB#0-18000~27000-PASS

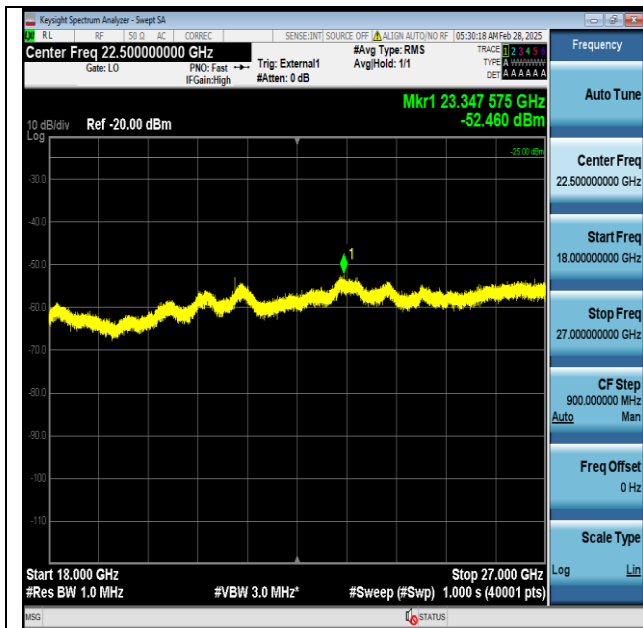


Band41-20MHz-QPSK-41490-1RB#0-0.009~0.15-PASS



Band41-20MHz-QPSK-41490-1RB#0-0.15~30-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	3.10	0.001196	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	0.40	0.000154	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	4.10	0.001581	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	3.40	0.001311	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	4.20	0.001620	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	4.70	0.001813	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	4.30	0.001658	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-0.20	-0.000077	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	1.50	0.000578	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	2.70	0.001041	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	3.10	0.001196	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	3.40	0.001311	PASS

~The End~