

Appendix-A LTE Band 66

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	22.84	24.34	30	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	22.88	24.38	30	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	23.02	24.52	30	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	22.03	23.53	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	22.04	23.54	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	22.38	23.88	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	22.13	23.63	30	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	20.97	22.47	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	22.87	24.37	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	23.19	24.69	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	22.86	24.36	30	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	22.06	23.56	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	21.73	23.23	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	21.85	23.35	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	21.66	23.16	30	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	21.08	22.58	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	22.22	23.72	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	22.23	23.73	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	22.07	23.57	30	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	21.38	22.88	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	21.67	23.17	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	21.6	23.1	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	20.95	22.45	30	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	20.28	21.78	30	PASS
Band66	3MHz	QPSK	131987	1RB#0	23	24.5	30	PASS
Band66	3MHz	QPSK	131987	1RB#8	23	24.5	30	PASS
Band66	3MHz	QPSK	131987	1RB#14	22	23.5	30	PASS
Band66	3MHz	QPSK	131987	15RB#0	21.94	23.44	30	PASS
Band66	3MHz	16QAM	131987	1RB#0	23	24.5	30	PASS
Band66	3MHz	16QAM	131987	1RB#8	22	23.5	30	PASS
Band66	3MHz	16QAM	131987	1RB#14	23	24.5	30	PASS
Band66	3MHz	16QAM	131987	15RB#0	21.02	22.52	30	PASS
Band66	3MHz	QPSK	132322	1RB#0	22.88	24.38	30	PASS
Band66	3MHz	QPSK	132322	1RB#8	22.89	24.39	30	PASS
Band66	3MHz	QPSK	132322	1RB#14	22.95	24.45	30	PASS
Band66	3MHz	QPSK	132322	15RB#0	22.08	23.58	30	PASS
Band66	3MHz	16QAM	132322	1RB#0	22.06	23.56	30	PASS

Band66	3MHz	16QAM	132322	1RB#8	21.82	23.32	30	PASS
Band66	3MHz	16QAM	132322	1RB#14	21.9	23.4	30	PASS
Band66	3MHz	16QAM	132322	15RB#0	20.94	22.44	30	PASS
Band66	3MHz	QPSK	132657	1RB#0	22.33	23.83	30	PASS
Band66	3MHz	QPSK	132657	1RB#8	22.47	23.97	30	PASS
Band66	3MHz	QPSK	132657	1RB#14	22.23	23.73	30	PASS
Band66	3MHz	QPSK	132657	15RB#0	21.38	22.88	30	PASS
Band66	3MHz	16QAM	132657	1RB#0	21.06	22.56	30	PASS
Band66	3MHz	16QAM	132657	1RB#8	21.3	22.8	30	PASS
Band66	3MHz	16QAM	132657	1RB#14	21.21	22.71	30	PASS
Band66	3MHz	16QAM	132657	15RB#0	20.36	21.86	30	PASS
Band66	5MHz	QPSK	131997	1RB#0	22.91	24.41	30	PASS
Band66	5MHz	QPSK	131997	1RB#12	23.1	24.6	30	PASS
Band66	5MHz	QPSK	131997	1RB#24	22.87	24.37	30	PASS
Band66	5MHz	QPSK	131997	25RB#0	22.11	23.61	30	PASS
Band66	5MHz	16QAM	131997	1RB#0	22.03	23.53	30	PASS
Band66	5MHz	16QAM	131997	1RB#12	21.92	23.42	30	PASS
Band66	5MHz	16QAM	131997	1RB#24	22.02	23.52	30	PASS
Band66	5MHz	16QAM	131997	25RB#0	21.01	22.51	30	PASS
Band66	5MHz	QPSK	132322	1RB#0	22.91	24.41	30	PASS
Band66	5MHz	QPSK	132322	1RB#12	22.85	24.35	30	PASS
Band66	5MHz	QPSK	132322	1RB#24	22.68	24.18	30	PASS
Band66	5MHz	QPSK	132322	25RB#0	22.01	23.51	30	PASS
Band66	5MHz	16QAM	132322	1RB#0	21.39	22.89	30	PASS
Band66	5MHz	16QAM	132322	1RB#12	21.59	23.09	30	PASS
Band66	5MHz	16QAM	132322	1RB#24	21.41	22.91	30	PASS
Band66	5MHz	16QAM	132322	25RB#0	20.6	22.1	30	PASS
Band66	5MHz	QPSK	132647	1RB#0	22.29	23.79	30	PASS
Band66	5MHz	QPSK	132647	1RB#12	22.69	24.19	30	PASS
Band66	5MHz	QPSK	132647	1RB#24	22.21	23.71	30	PASS
Band66	5MHz	QPSK	132647	25RB#0	21.48	22.98	30	PASS
Band66	5MHz	16QAM	132647	1RB#0	21.33	22.83	30	PASS
Band66	5MHz	16QAM	132647	1RB#12	20.96	22.46	30	PASS
Band66	5MHz	16QAM	132647	1RB#24	21.01	22.51	30	PASS
Band66	5MHz	16QAM	132647	25RB#0	20.52	22.02	30	PASS
Band66	10MHz	QPSK	132022	1RB#0	23.09	24.59	30	PASS
Band66	10MHz	QPSK	132022	1RB#24	22.94	24.44	30	PASS
Band66	10MHz	QPSK	132022	1RB#49	22.9	24.4	30	PASS
Band66	10MHz	QPSK	132022	50RB#0	22	23.5	30	PASS
Band66	10MHz	16QAM	132022	1RB#0	21.99	23.49	30	PASS
Band66	10MHz	16QAM	132022	1RB#24	21.75	23.25	30	PASS
Band66	10MHz	16QAM	132022	1RB#49	21.6	23.1	30	PASS
Band66	10MHz	16QAM	132022	50RB#0	21.03	22.53	30	PASS
Band66	10MHz	QPSK	132322	1RB#0	23.05	24.55	30	PASS
Band66	10MHz	QPSK	132322	1RB#24	22.98	24.48	30	PASS

Band66	10MHz	QPSK	132322	1RB#49	22.79	24.29	30	PASS
Band66	10MHz	QPSK	132322	50RB#0	21.96	23.46	30	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.83	23.33	30	PASS
Band66	10MHz	16QAM	132322	1RB#24	21.54	23.04	30	PASS
Band66	10MHz	16QAM	132322	1RB#49	21.89	23.39	30	PASS
Band66	10MHz	16QAM	132322	50RB#0	20.83	22.33	30	PASS
Band66	10MHz	QPSK	132622	1RB#0	22.42	23.92	30	PASS
Band66	10MHz	QPSK	132622	1RB#24	22.33	23.83	30	PASS
Band66	10MHz	QPSK	132622	1RB#49	22.23	23.73	30	PASS
Band66	10MHz	QPSK	132622	50RB#0	21.41	22.91	30	PASS
Band66	10MHz	16QAM	132622	1RB#0	21.36	22.86	30	PASS
Band66	10MHz	16QAM	132622	1RB#24	21.35	22.85	30	PASS
Band66	10MHz	16QAM	132622	1RB#49	21.72	23.22	30	PASS
Band66	10MHz	16QAM	132622	50RB#0	20.29	21.79	30	PASS
Band66	15MHz	QPSK	132047	1RB#0	22.94	24.44	30	PASS
Band66	15MHz	QPSK	132047	1RB#38	22.96	24.46	30	PASS
Band66	15MHz	QPSK	132047	1RB#74	22.83	24.33	30	PASS
Band66	15MHz	QPSK	132047	75RB#0	22.14	23.64	30	PASS
Band66	15MHz	16QAM	132047	1RB#0	22.08	23.58	30	PASS
Band66	15MHz	16QAM	132047	1RB#38	21.62	23.12	30	PASS
Band66	15MHz	16QAM	132047	1RB#74	21.71	23.21	30	PASS
Band66	15MHz	16QAM	132047	75RB#0	21.03	22.53	30	PASS
Band66	15MHz	QPSK	132322	1RB#0	22.93	24.43	30	PASS
Band66	15MHz	QPSK	132322	1RB#38	23.26	24.76	30	PASS
Band66	15MHz	QPSK	132322	1RB#74	22.62	24.12	30	PASS
Band66	15MHz	QPSK	132322	75RB#0	22.01	23.51	30	PASS
Band66	15MHz	16QAM	132322	1RB#0	21.94	23.44	30	PASS
Band66	15MHz	16QAM	132322	1RB#38	21.77	23.27	30	PASS
Band66	15MHz	16QAM	132322	1RB#74	21.7	23.2	30	PASS
Band66	15MHz	16QAM	132322	75RB#0	20.94	22.44	30	PASS
Band66	15MHz	QPSK	132597	1RB#0	22.26	23.76	30	PASS
Band66	15MHz	QPSK	132597	1RB#38	22.49	23.99	30	PASS
Band66	15MHz	QPSK	132597	1RB#74	22.34	23.84	30	PASS
Band66	15MHz	QPSK	132597	75RB#0	21.5	23	30	PASS
Band66	15MHz	16QAM	132597	1RB#0	21.34	22.84	30	PASS
Band66	15MHz	16QAM	132597	1RB#38	21.49	22.99	30	PASS
Band66	15MHz	16QAM	132597	1RB#74	21.04	22.54	30	PASS
Band66	15MHz	16QAM	132597	75RB#0	20.58	22.08	30	PASS
Band66	20MHz	QPSK	132072	1RB#0	22.97	24.47	30	PASS
Band66	20MHz	QPSK	132072	1RB#49	22.91	24.41	30	PASS
Band66	20MHz	QPSK	132072	1RB#99	22.62	24.12	30	PASS
Band66	20MHz	QPSK	132072	100RB#0	21.88	23.38	30	PASS
Band66	20MHz	16QAM	132072	1RB#0	21.63	23.13	30	PASS
Band66	20MHz	16QAM	132072	1RB#49	21.74	23.24	30	PASS
Band66	20MHz	16QAM	132072	1RB#99	21.27	22.77	30	PASS

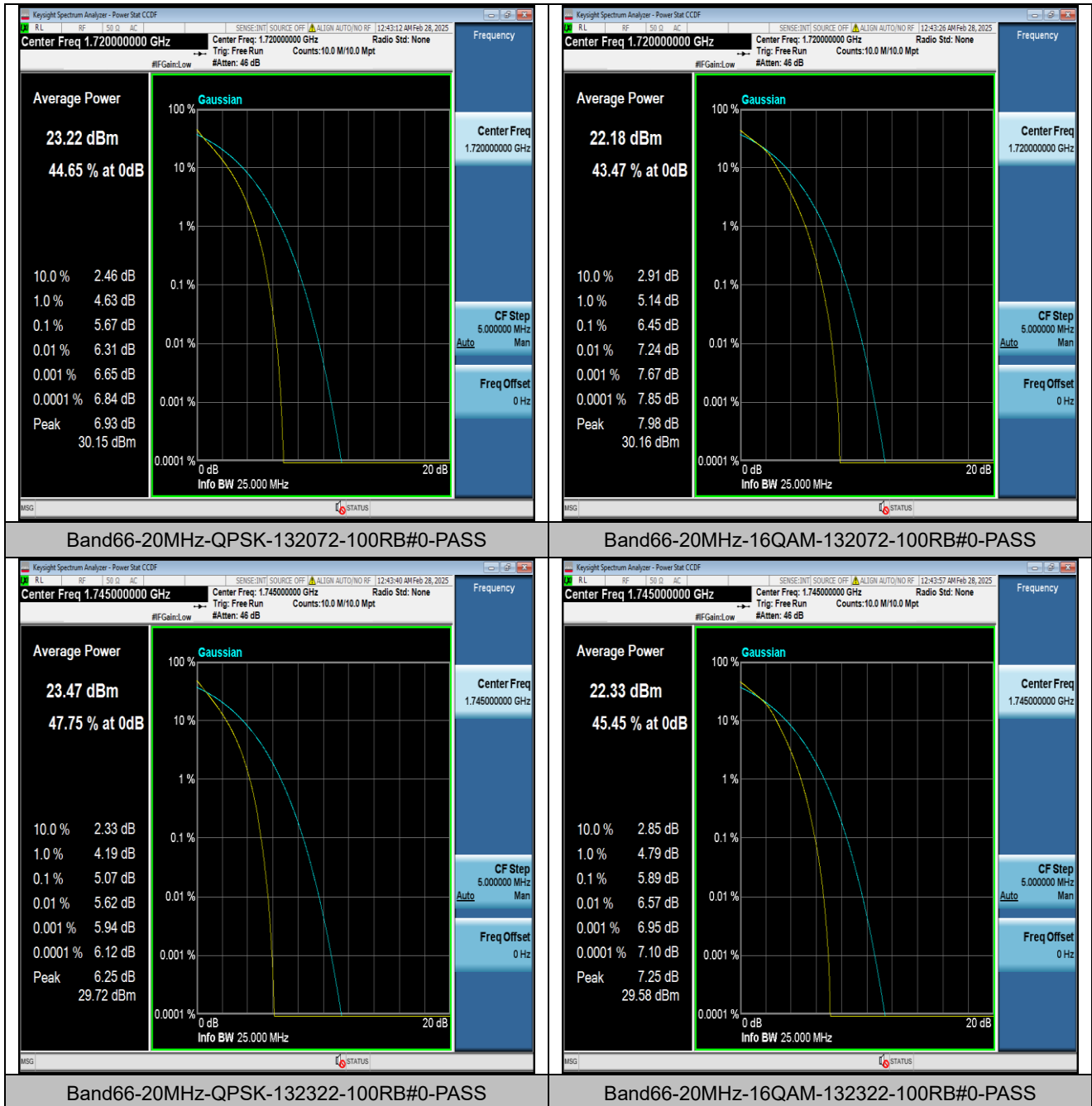
Band66	20MHz	16QAM	132072	100RB#0	20.75	22.25	30	PASS
Band66	20MHz	QPSK	132322	1RB#0	22.77	24.27	30	PASS
Band66	20MHz	QPSK	132322	1RB#49	23.23	24.73	30	PASS
Band66	20MHz	QPSK	132322	1RB#99	22.71	24.21	30	PASS
Band66	20MHz	QPSK	132322	100RB#0	21.91	23.41	30	PASS
Band66	20MHz	16QAM	132322	1RB#0	21.64	23.14	30	PASS
Band66	20MHz	16QAM	132322	1RB#49	21.62	23.12	30	PASS
Band66	20MHz	16QAM	132322	1RB#99	21.94	23.44	30	PASS
Band66	20MHz	16QAM	132322	100RB#0	20.74	22.24	30	PASS
Band66	20MHz	QPSK	132572	1RB#0	22.08	23.58	30	PASS
Band66	20MHz	QPSK	132572	1RB#49	22.52	24.02	30	PASS
Band66	20MHz	QPSK	132572	1RB#99	22.48	23.98	30	PASS
Band66	20MHz	QPSK	132572	100RB#0	21.45	22.95	30	PASS
Band66	20MHz	16QAM	132572	1RB#0	21.14	22.64	30	PASS
Band66	20MHz	16QAM	132572	1RB#49	20.91	22.41	30	PASS
Band66	20MHz	16QAM	132572	1RB#99	20.98	22.48	30	PASS
Band66	20MHz	16QAM	132572	100RB#0	20.35	21.85	30	PASS

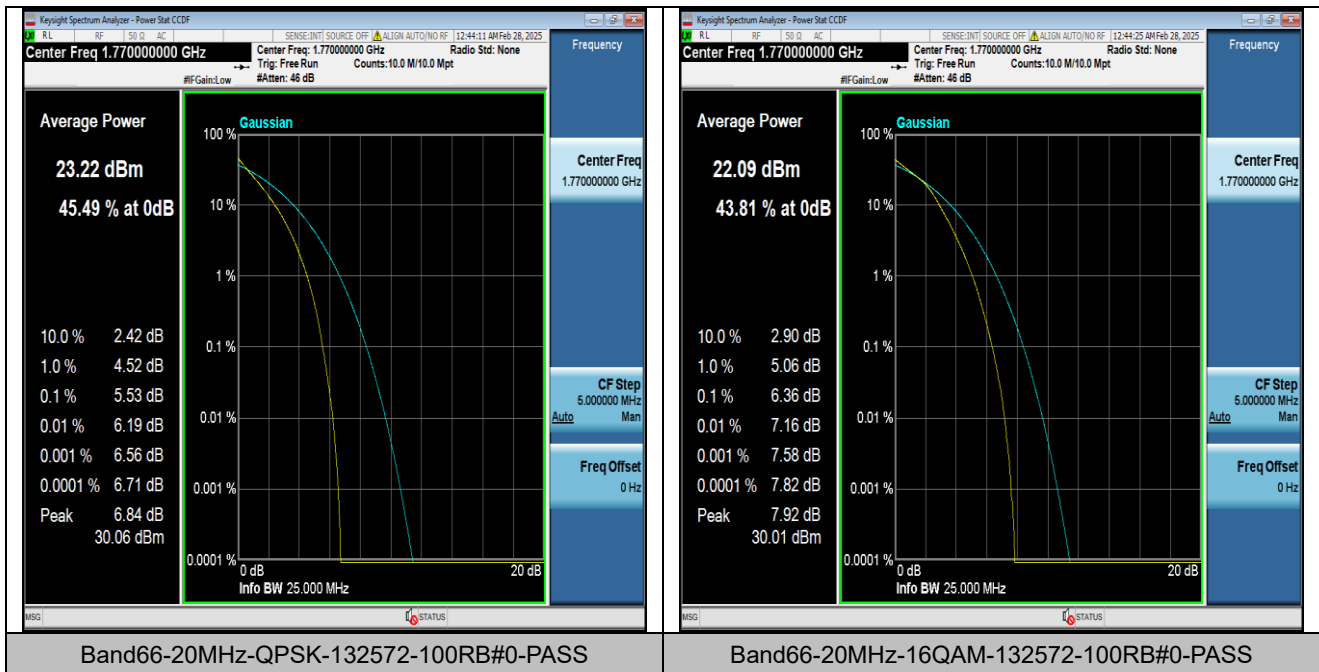
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	5.67	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	6.45	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.07	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	5.89	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.53	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	6.36	13	PASS

Test Graphs



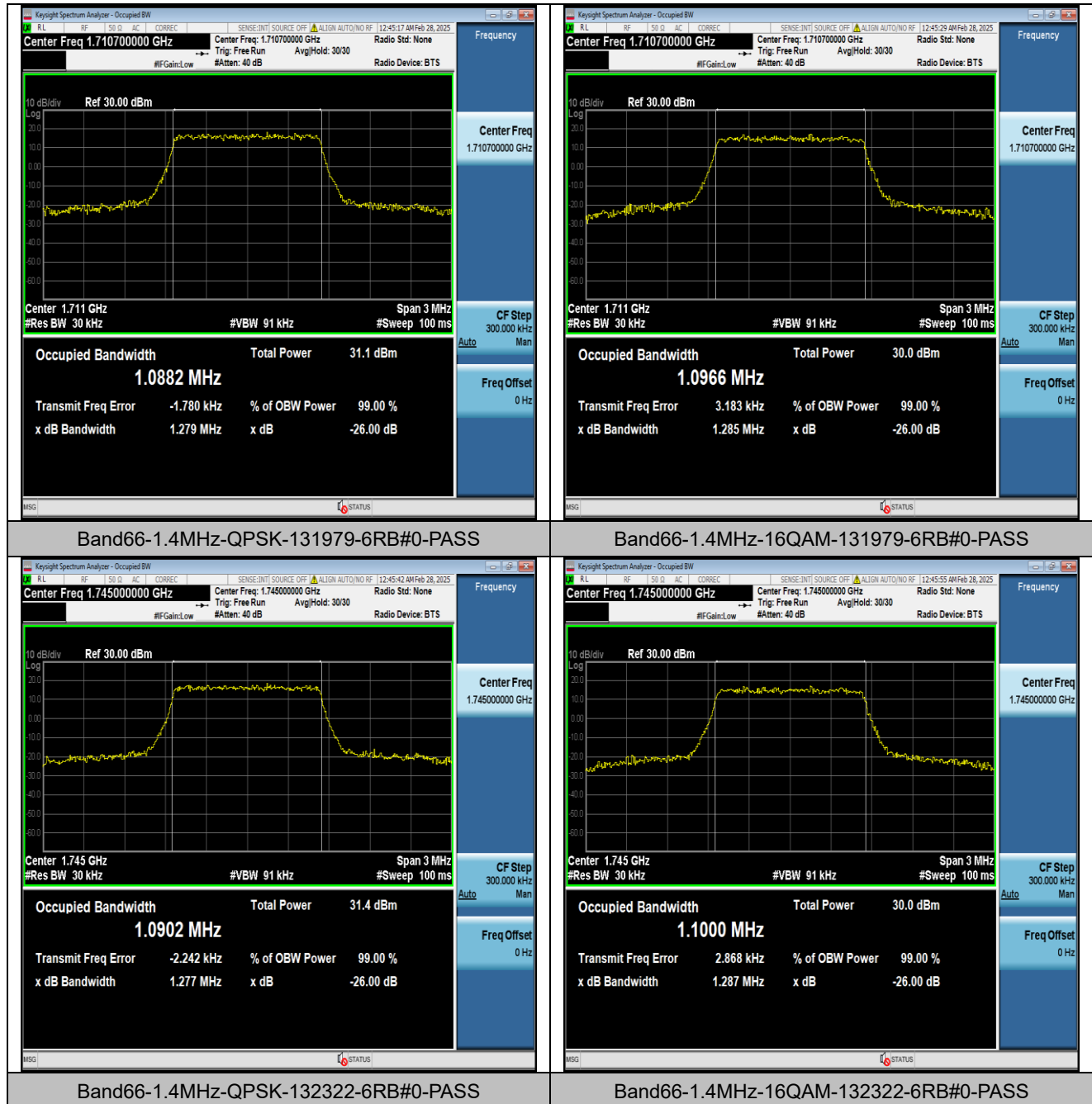


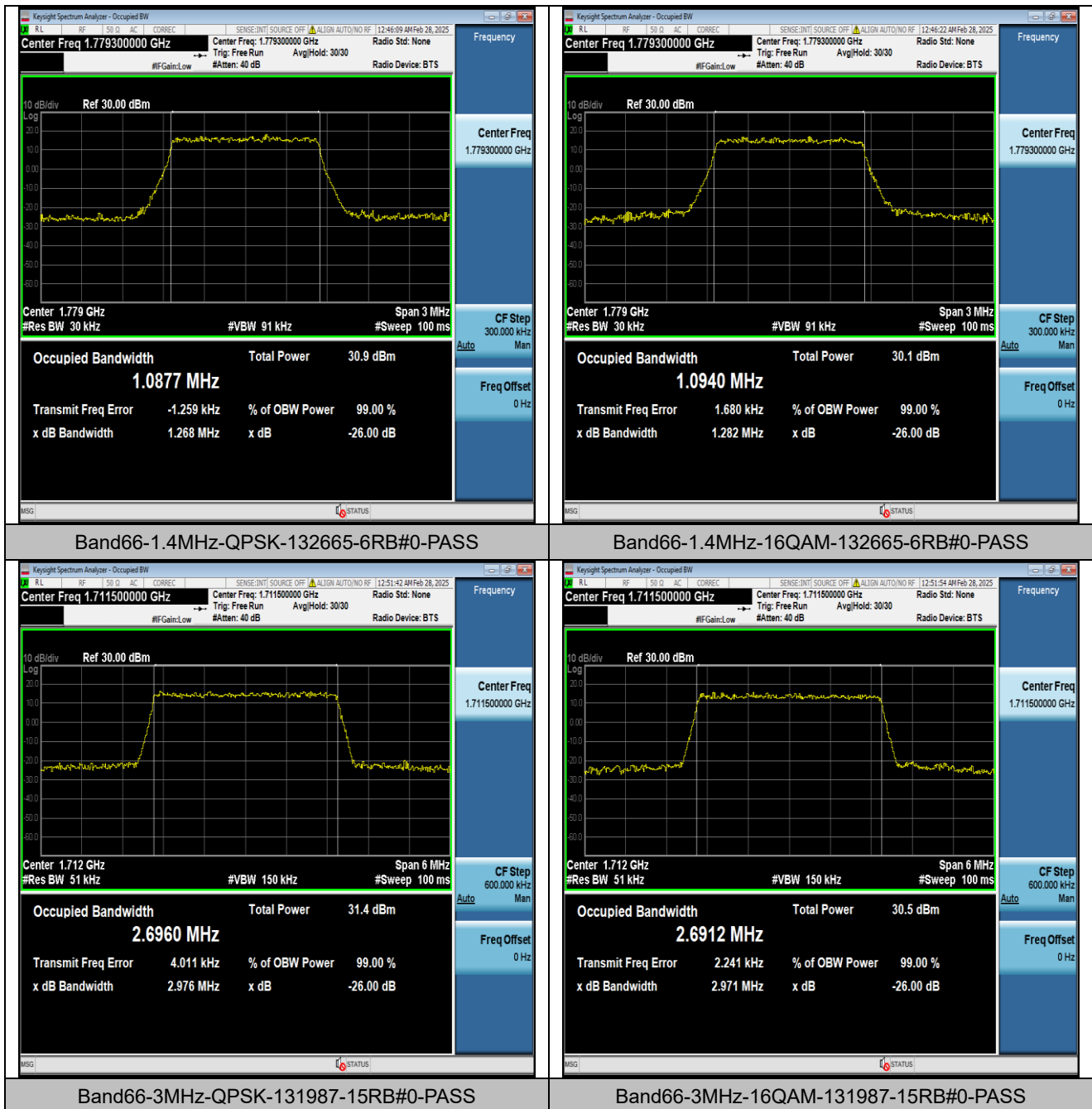
26dB Bandwidth and Occupied Bandwidth

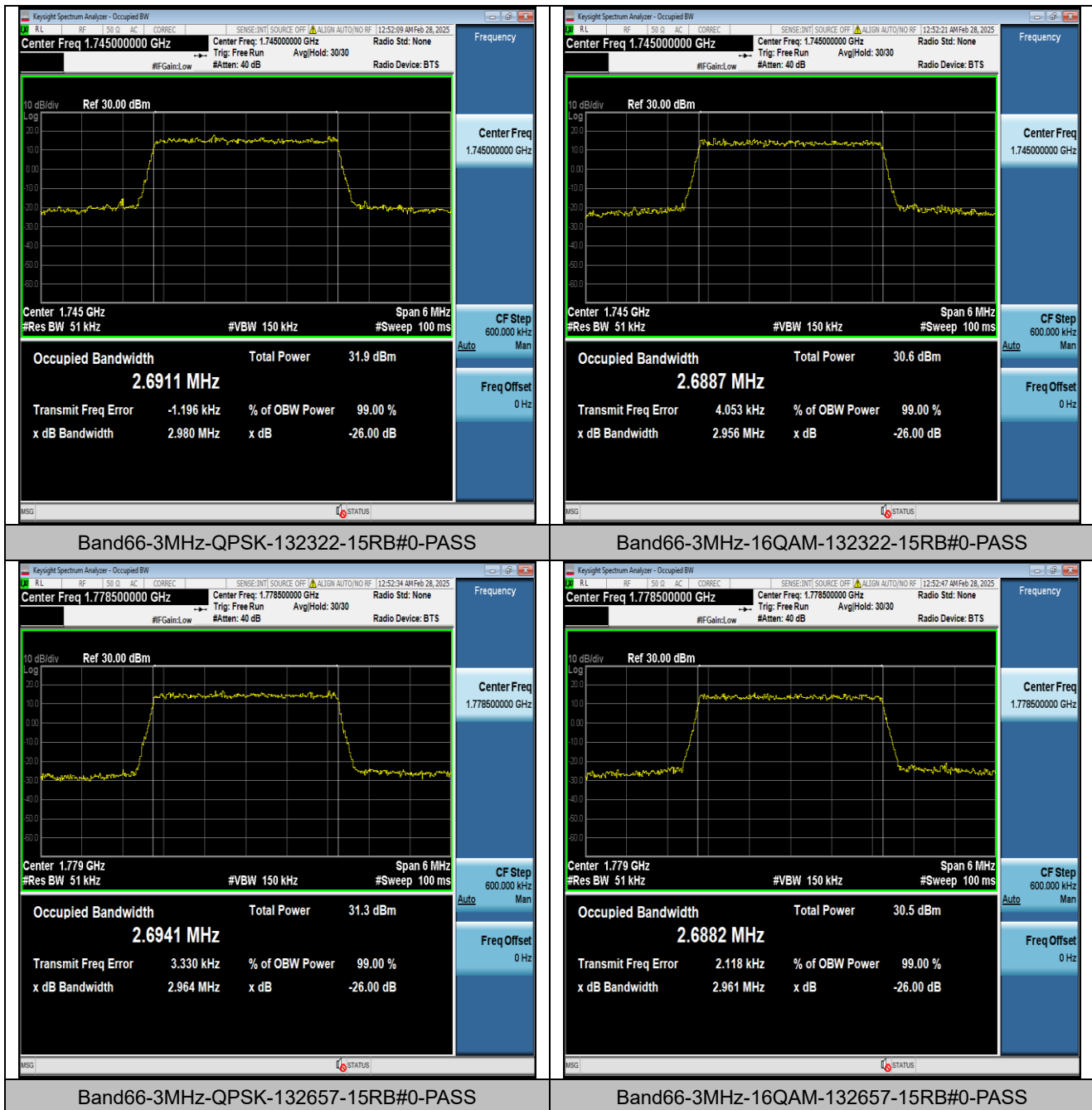
Test Result

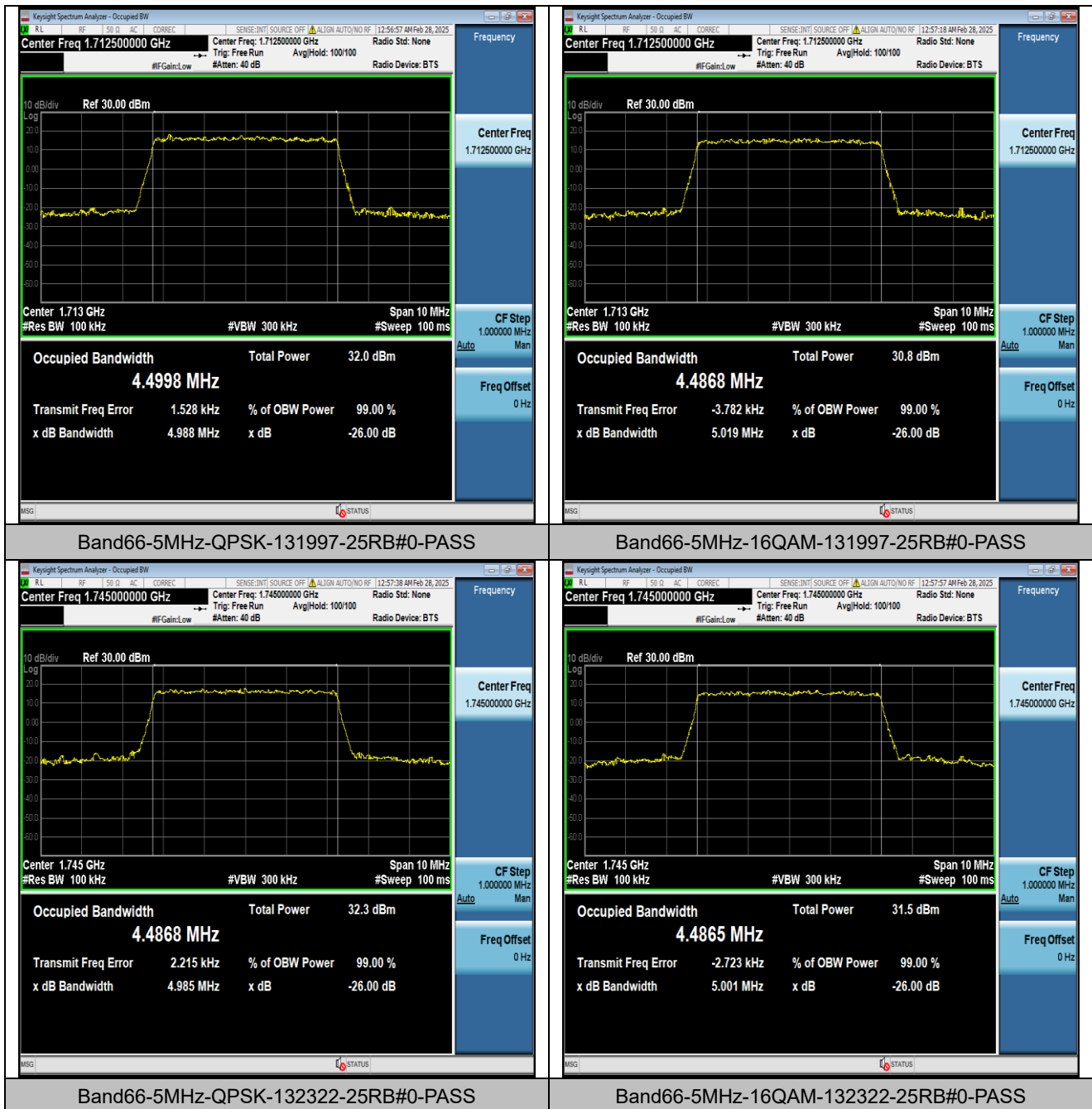
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.0882	1.279	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.0966	1.285	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.0902	1.277	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.1000	1.287	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.0877	1.268	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.0940	1.282	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.6960	2.976	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.6912	2.971	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.6911	2.980	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.6887	2.956	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.6941	2.964	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.6882	2.961	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.4998	4.988	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.4868	5.019	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.4868	4.985	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.4865	5.001	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.4808	4.976	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.4864	4.999	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.9755	9.798	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.9405	9.836	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.9614	9.815	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.9532	9.851	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.9884	9.855	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.9419	9.818	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.457	14.73	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.436	14.72	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.432	14.62	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.407	14.61	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.451	14.72	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.414	14.74	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.978	19.61	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.947	19.51	PASS
Band66	20MHz	QPSK	132322	100RB#0	17.925	19.55	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.860	19.39	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.998	19.47	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.931	19.46	PASS

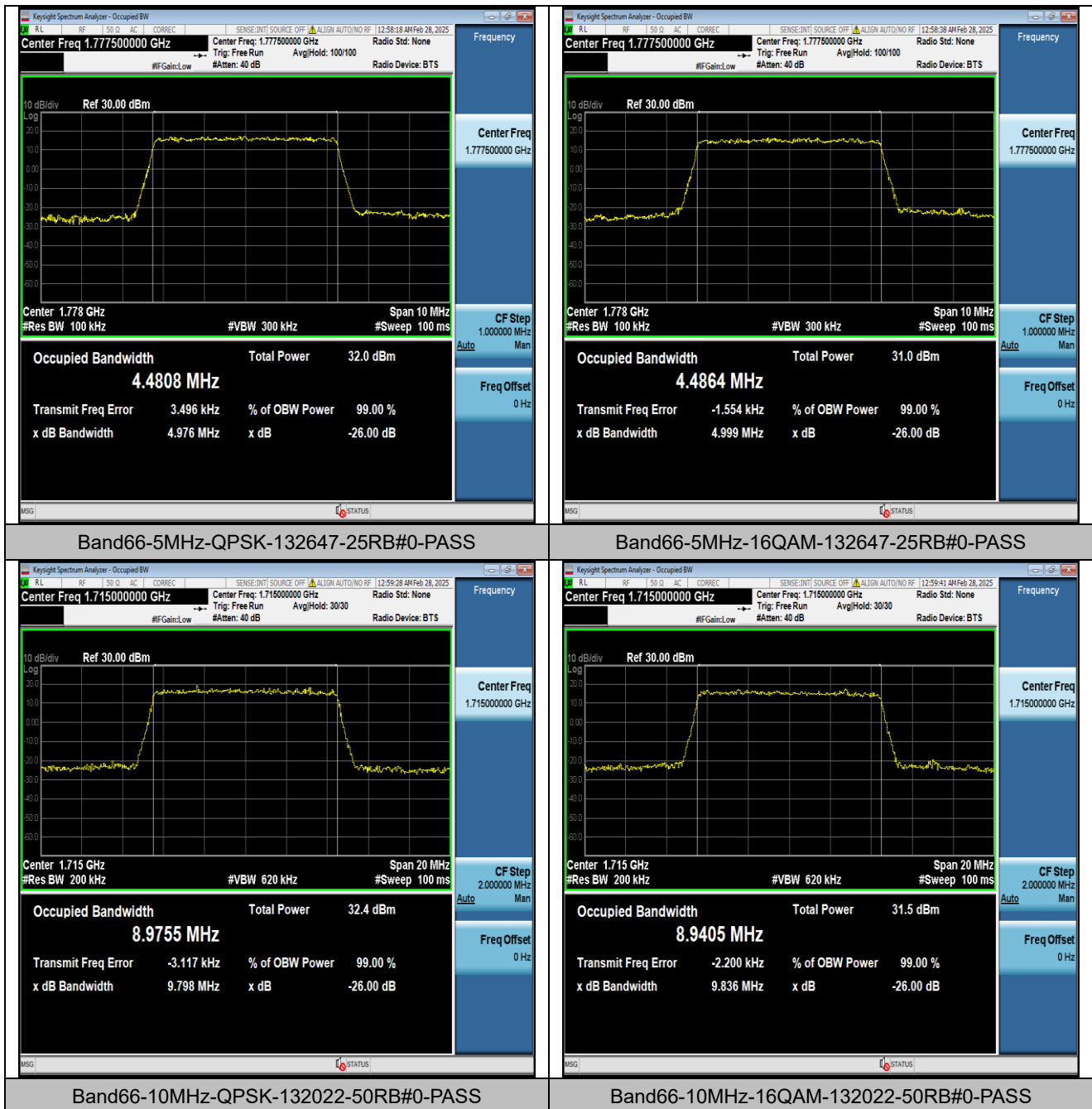
Test Graphs

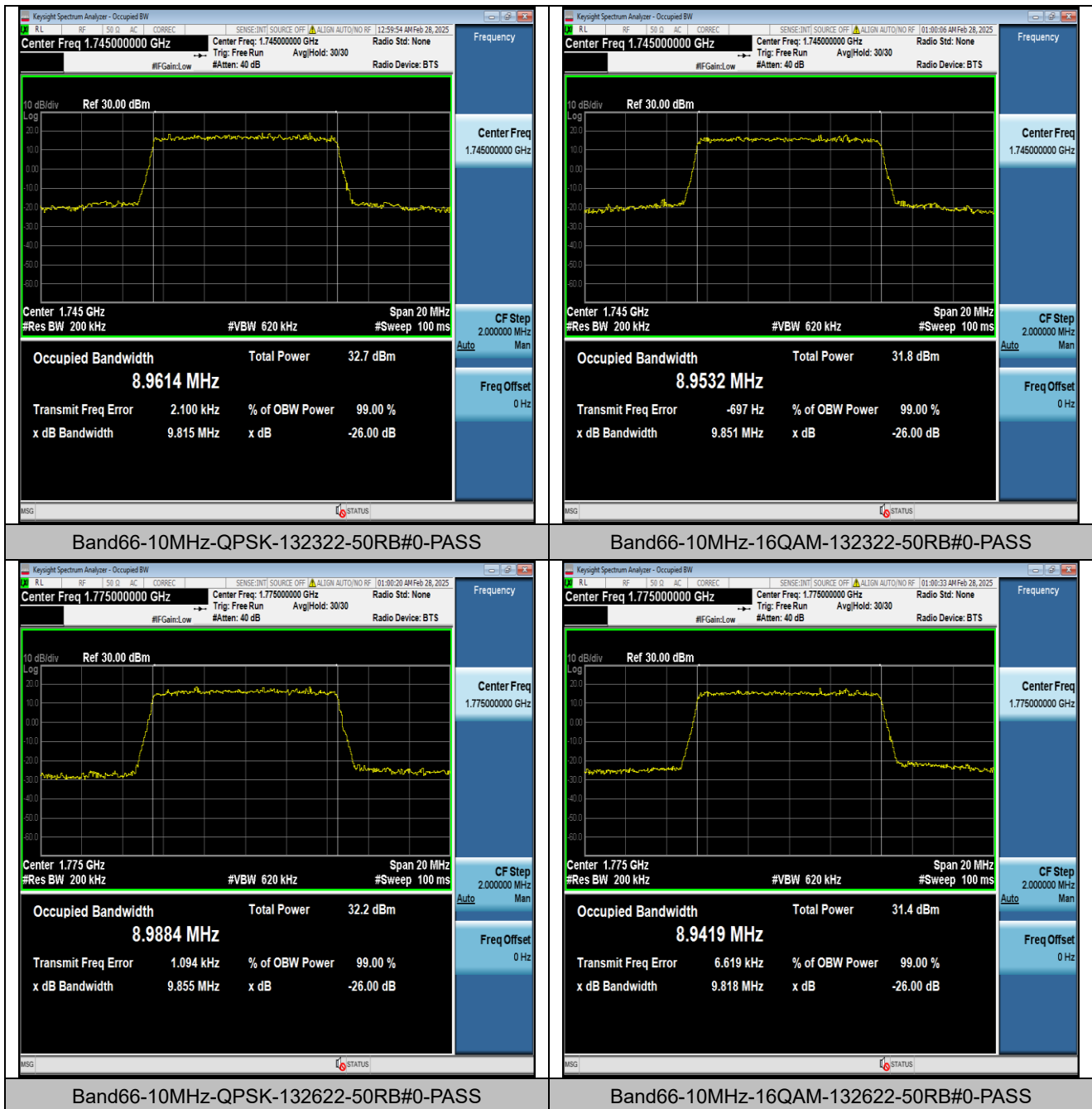


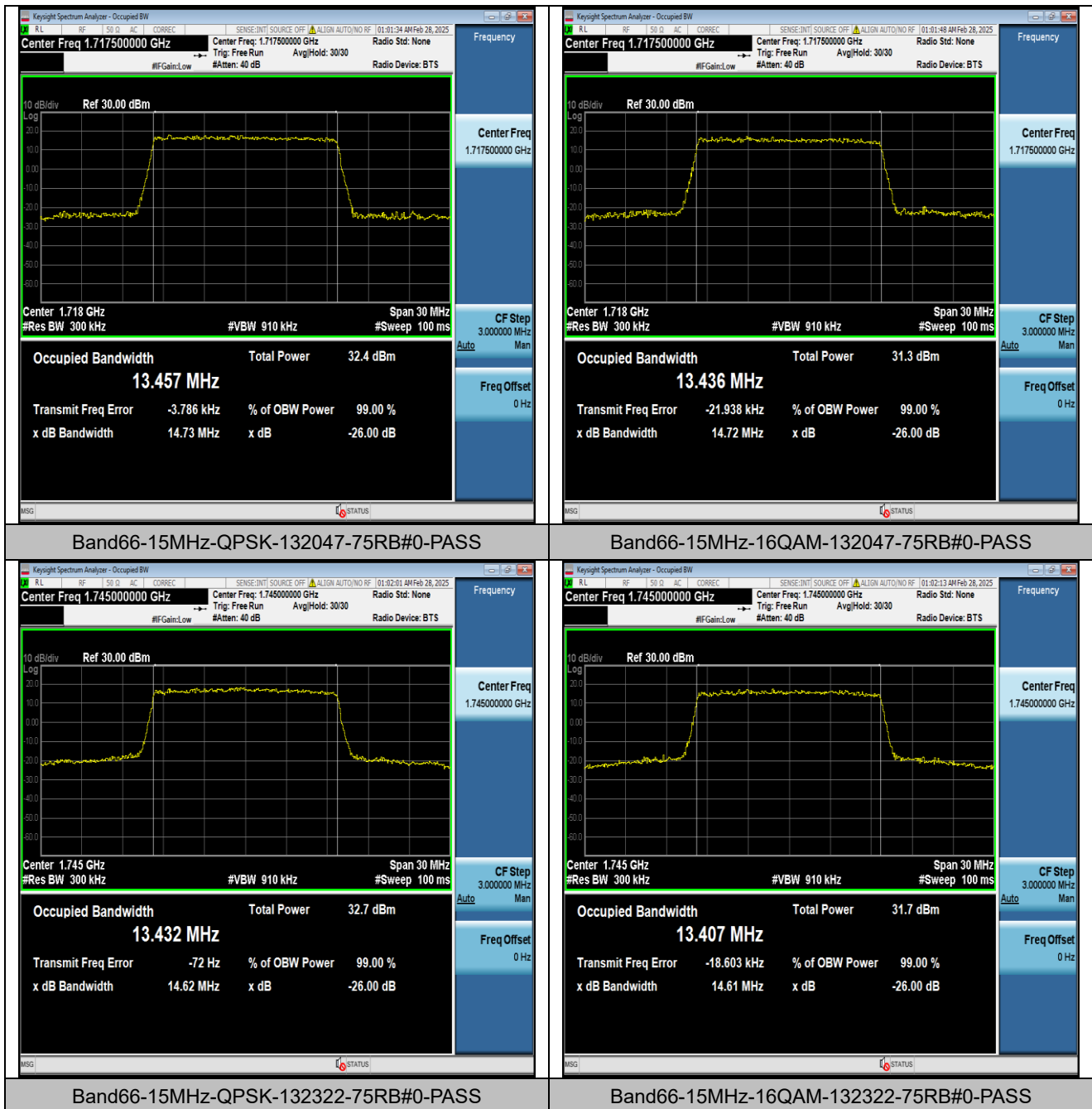


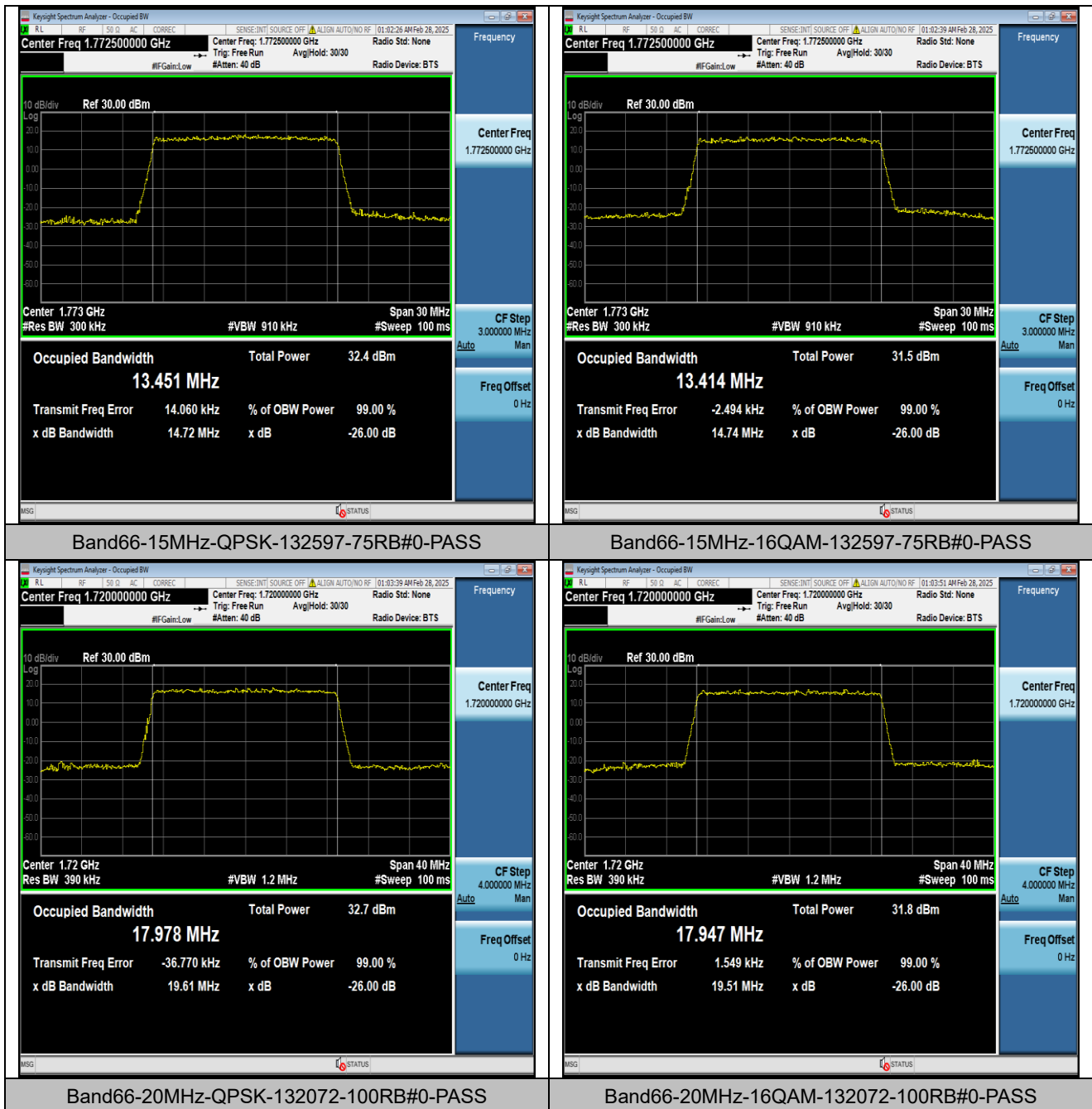


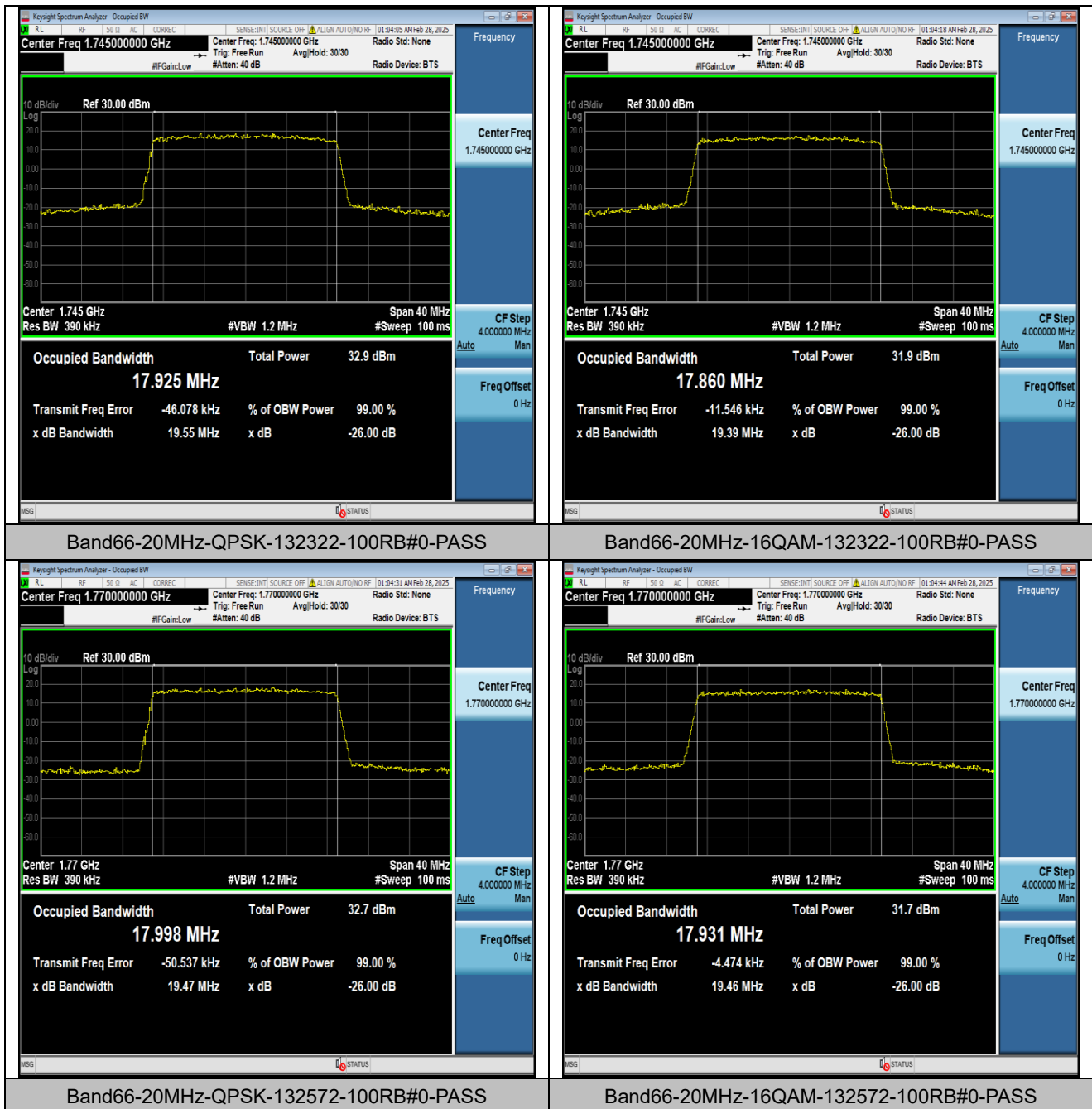






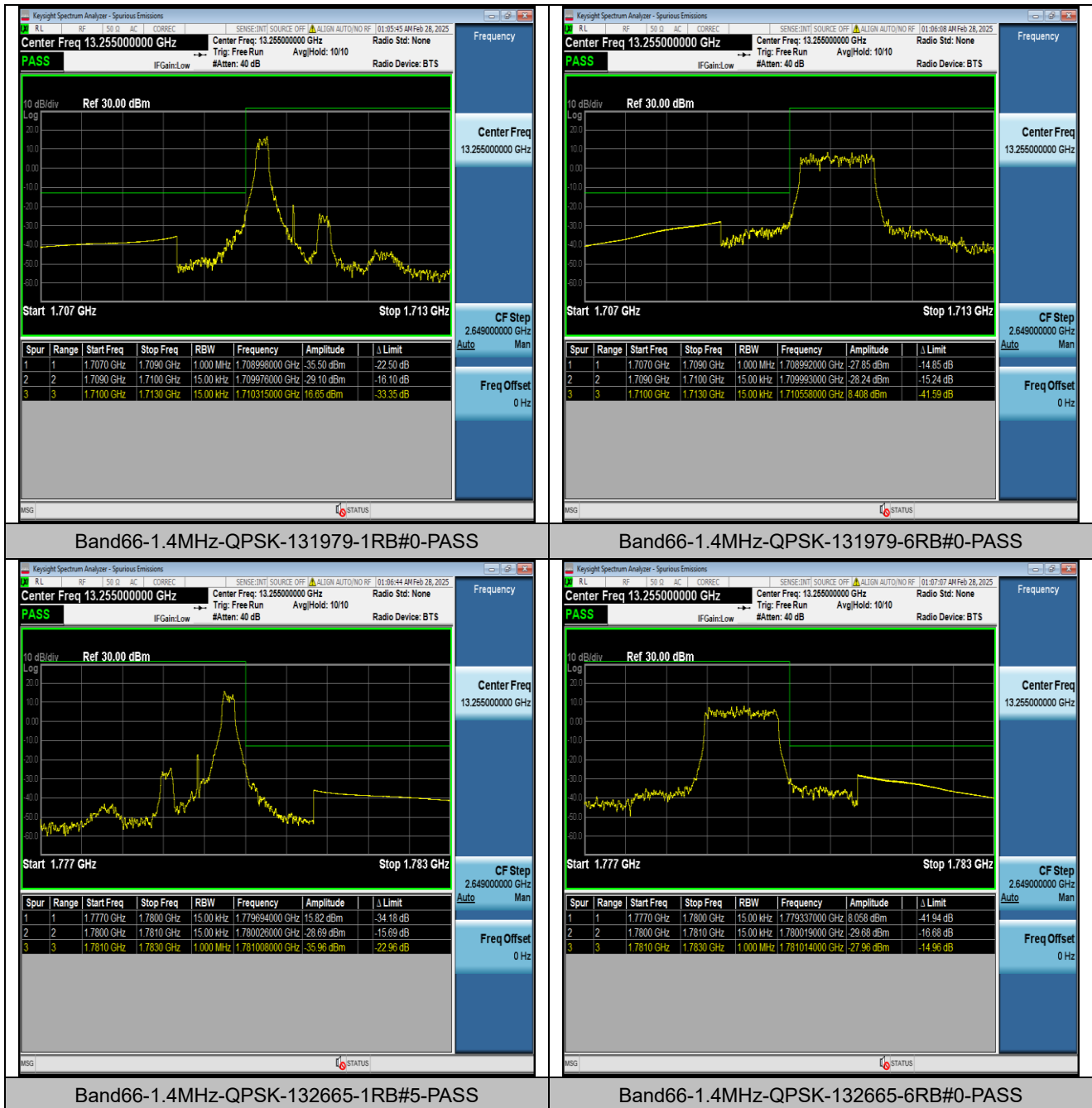


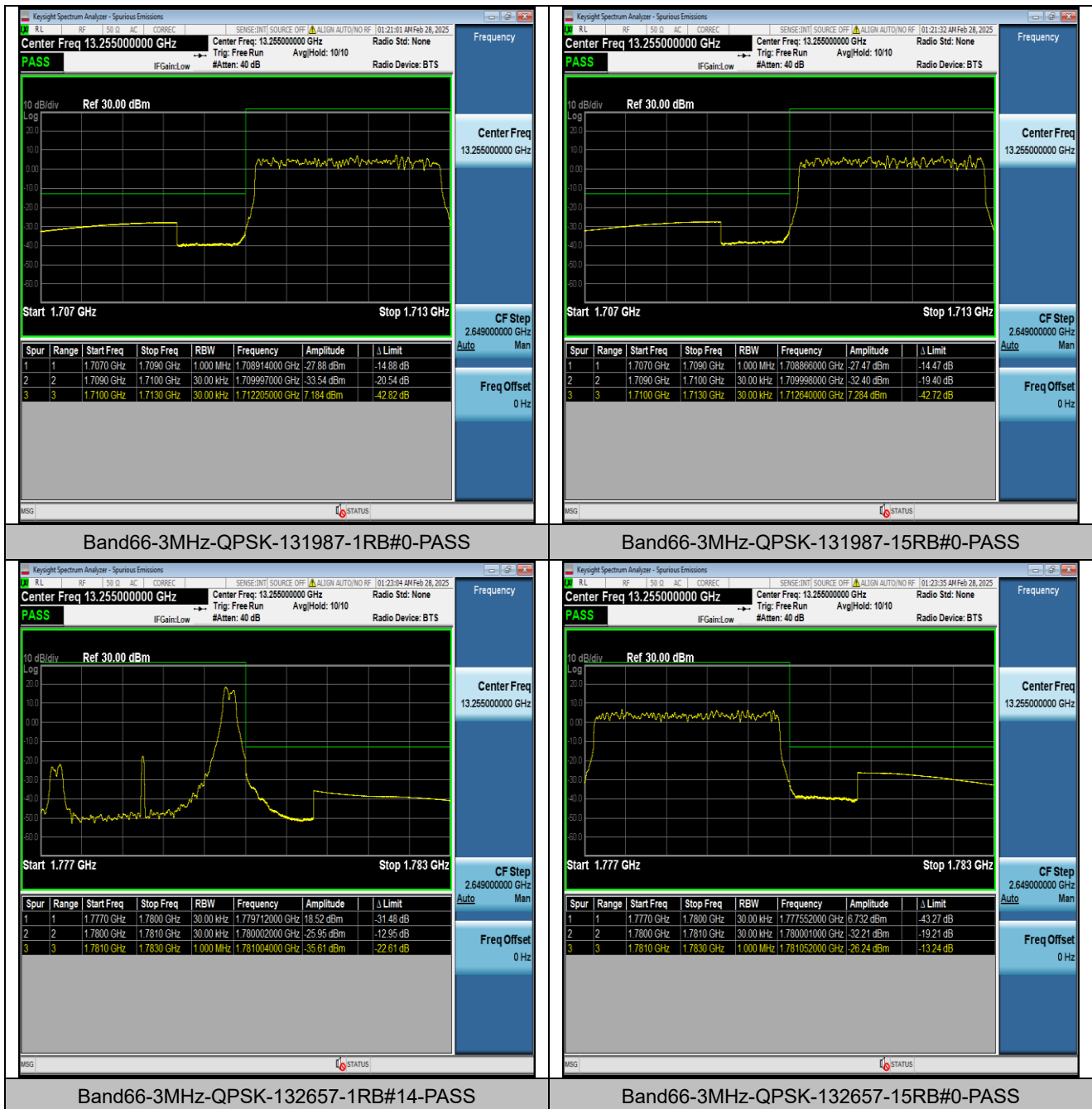


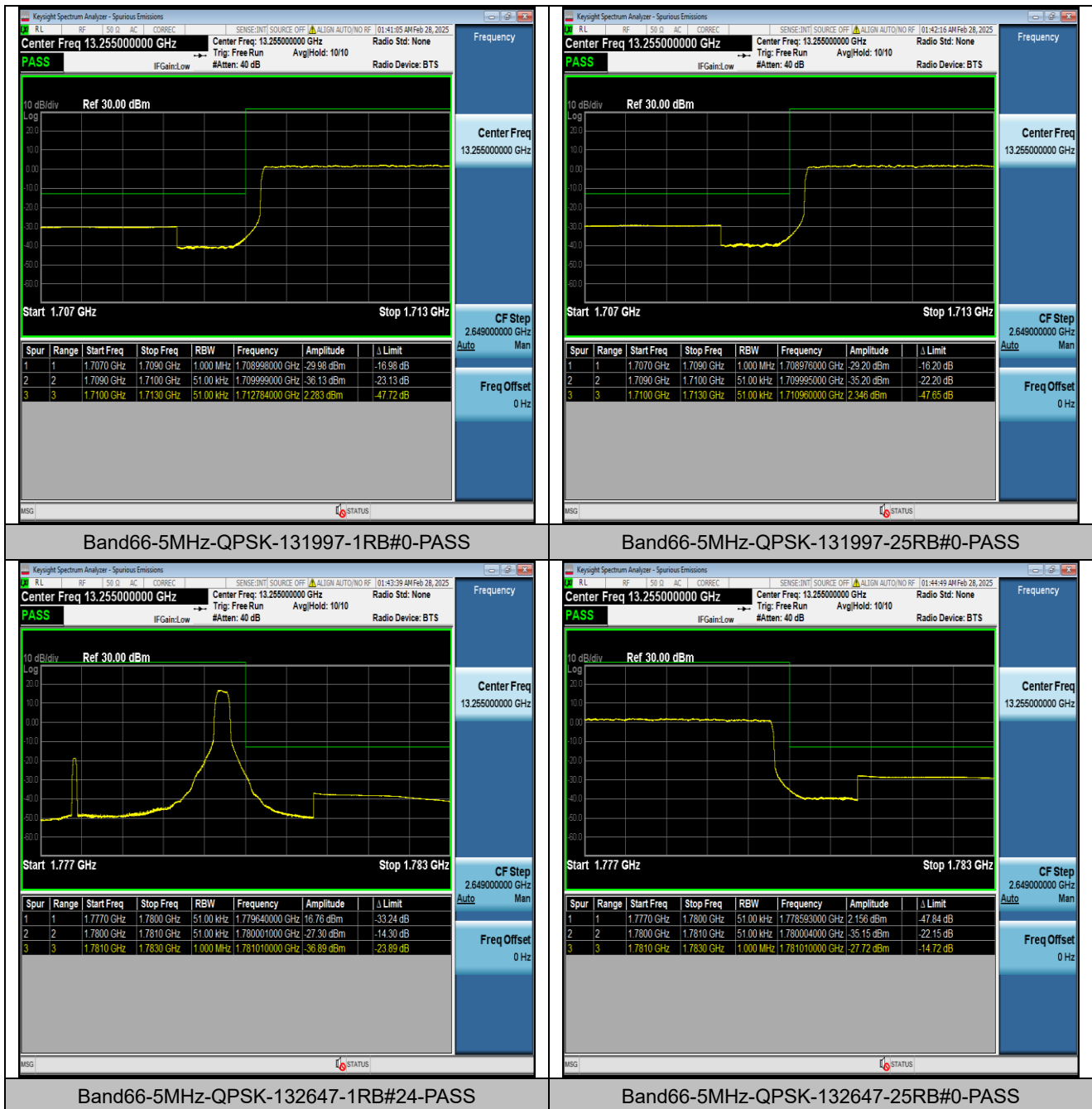


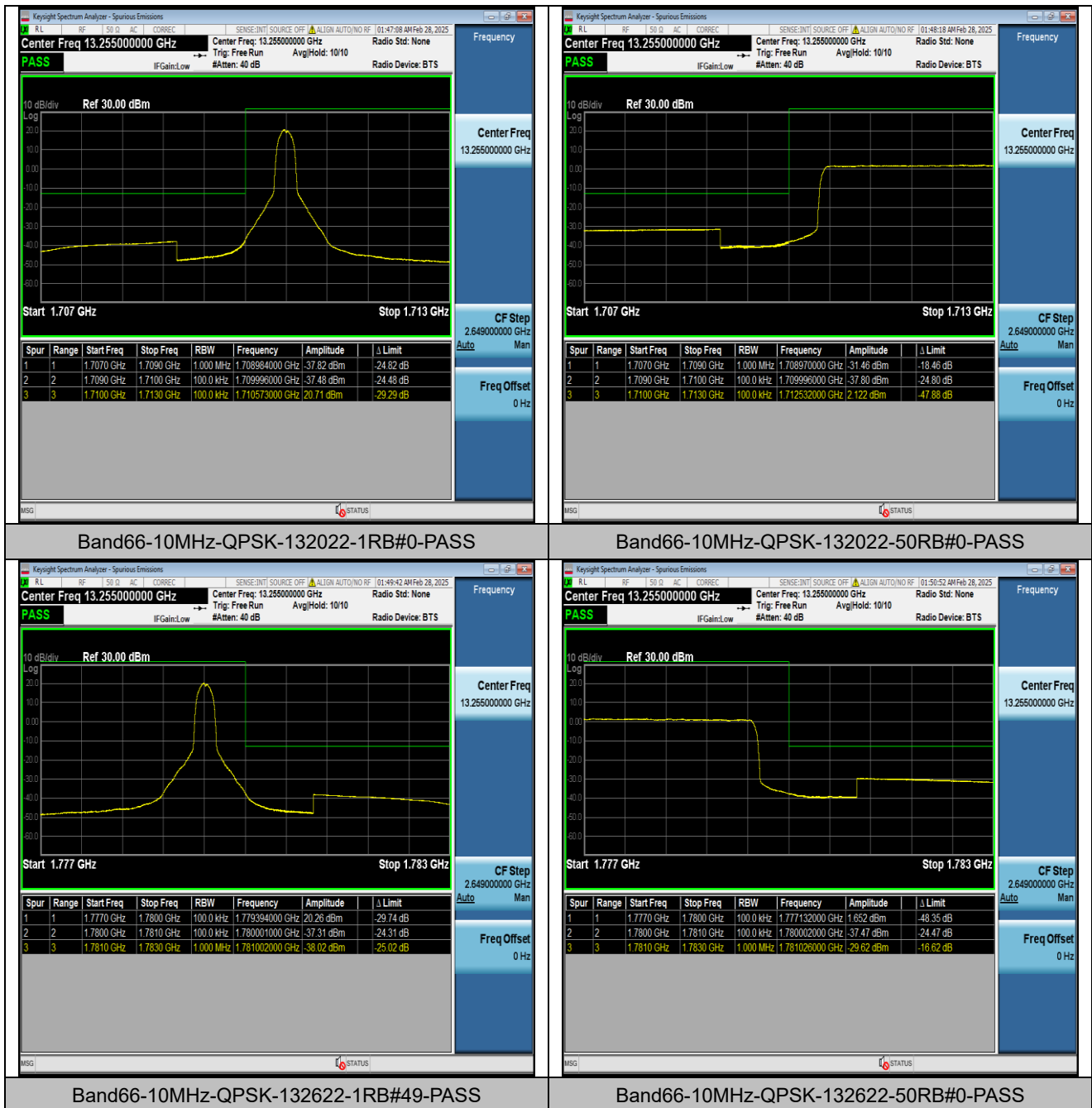
Band Edge

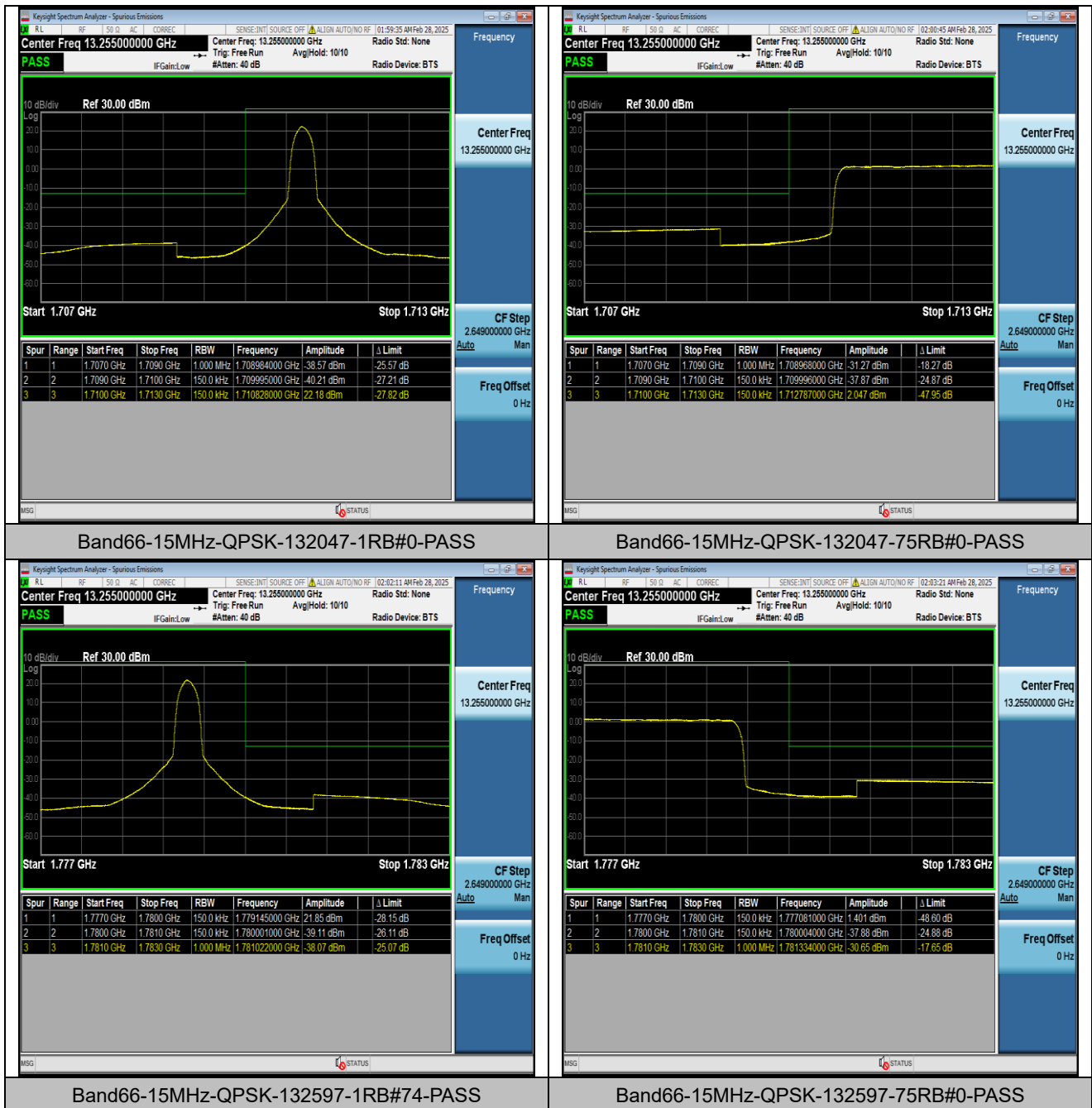
Test Graphs

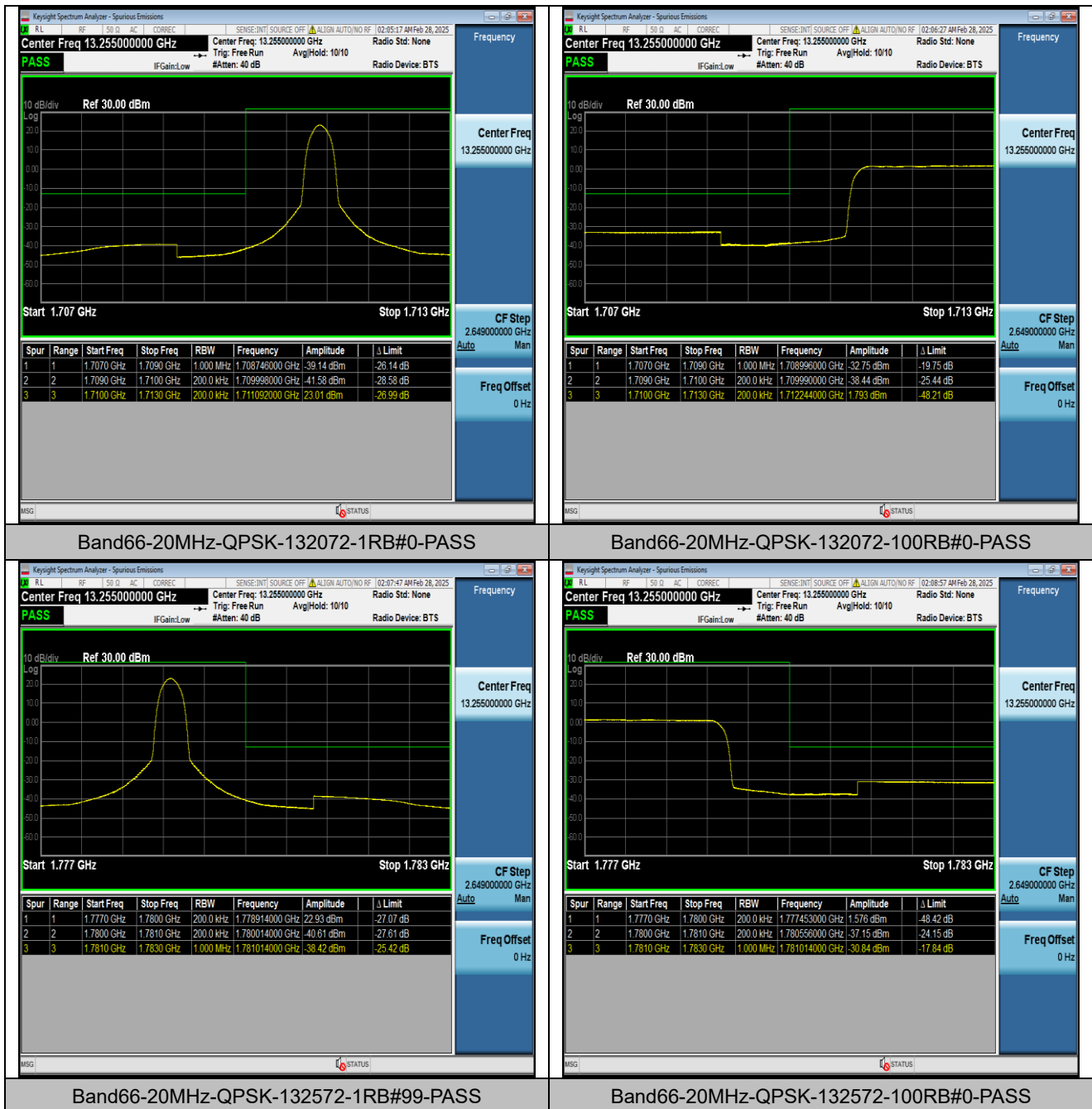






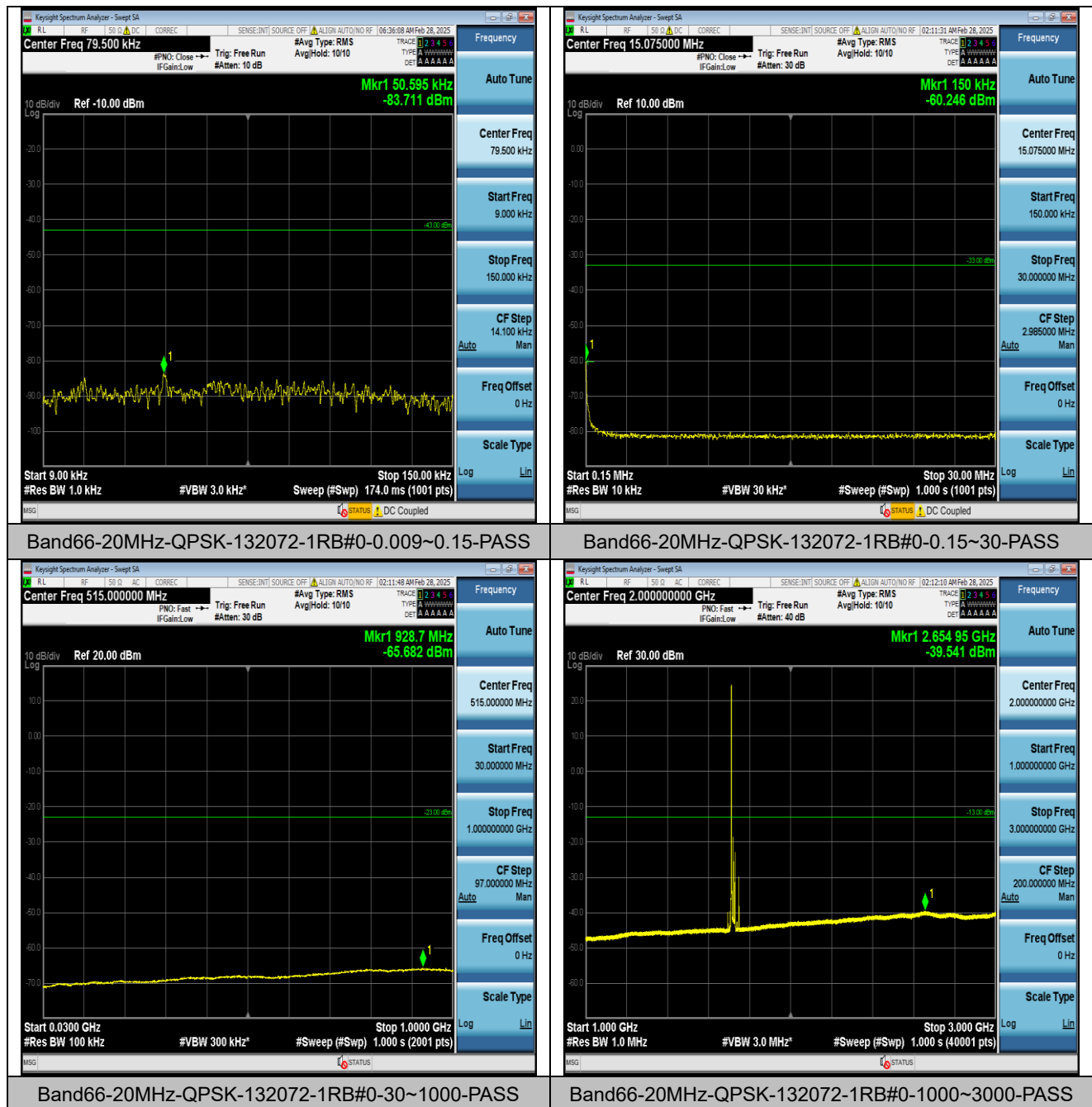


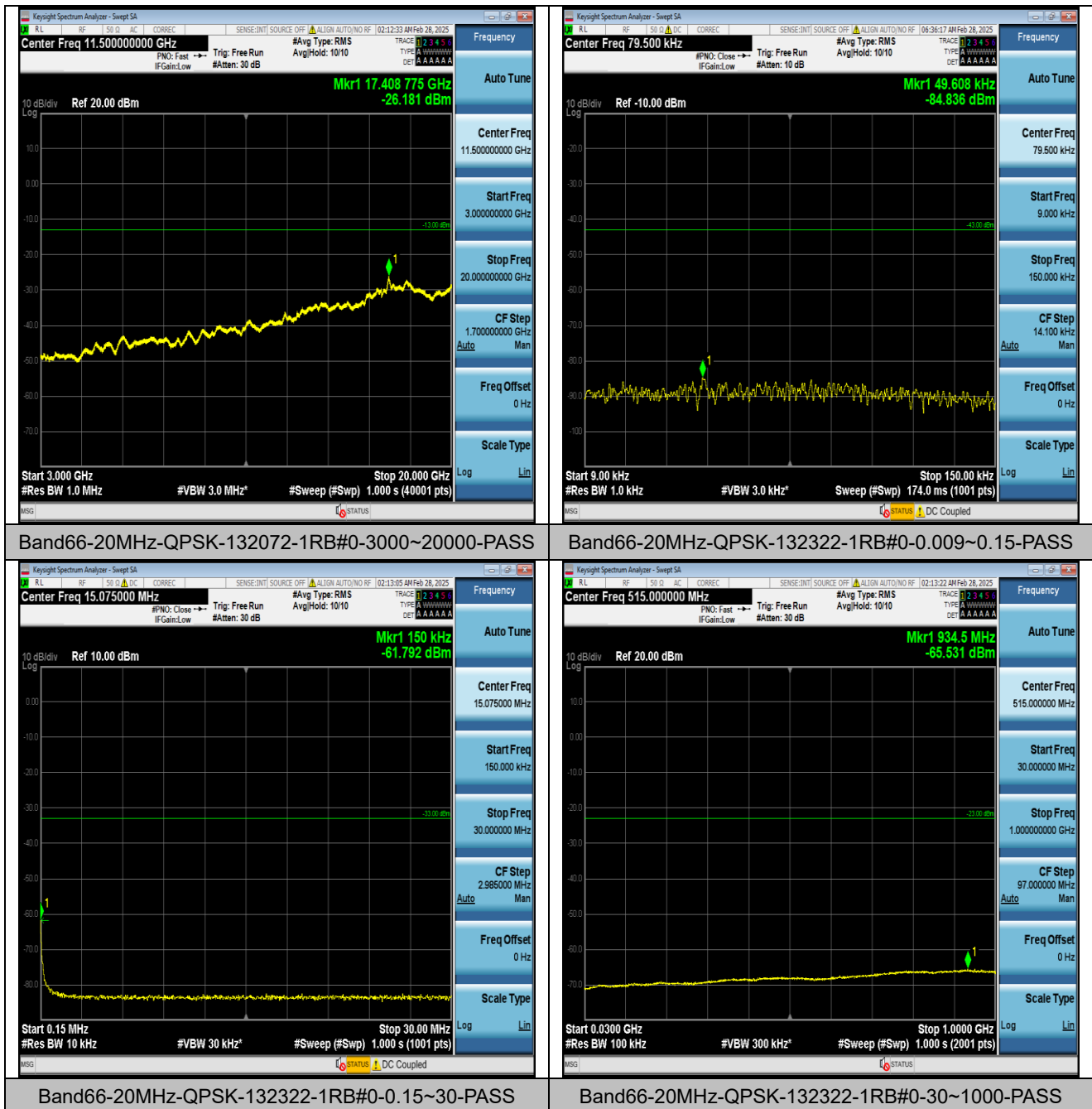


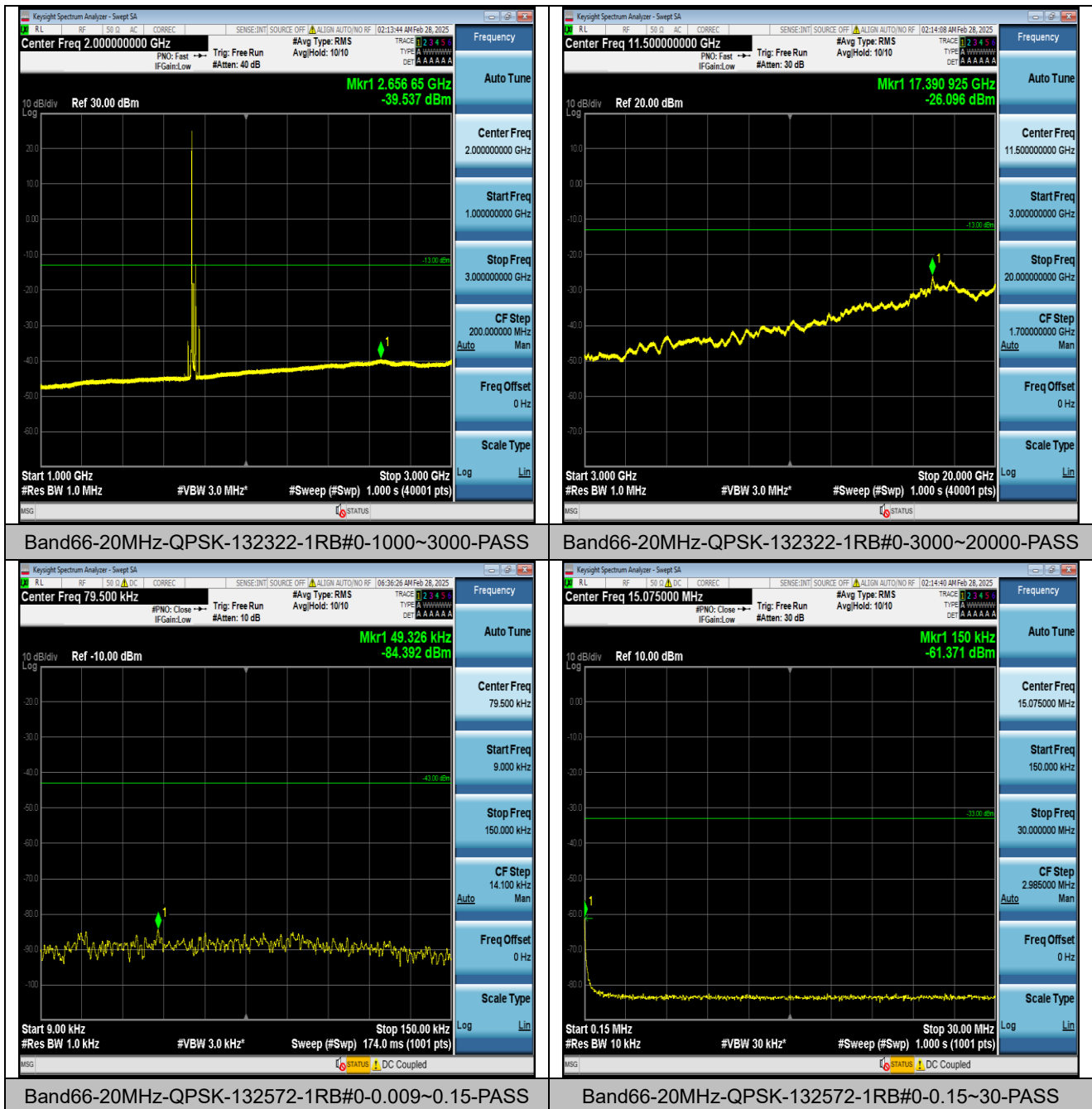


Conducted Spurious Emission

Test Graphs

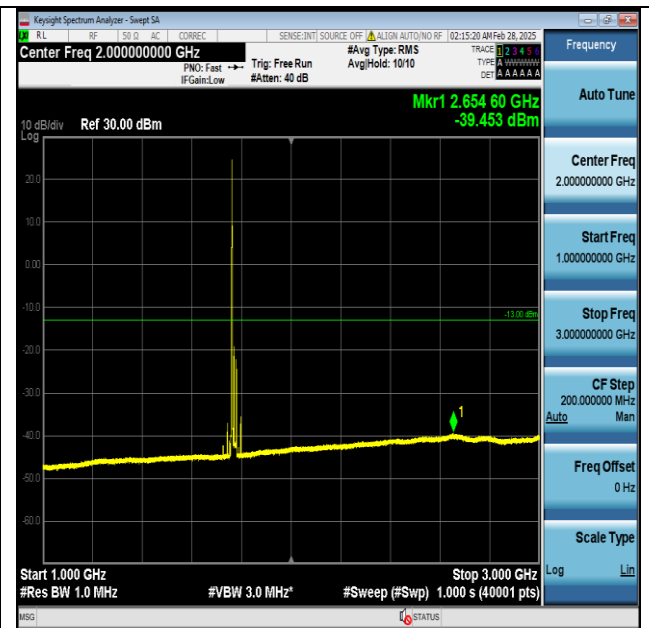








Band66-20MHz-QPSK-132572-1RB#0-30~1000-PASS



Band66-20MHz-QPSK-132572-1RB#0-1000~3000-PASS



Band66-20MHz-QPSK-132572-1RB#0-3000~20000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-2.20	-0.001261	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-3.40	-0.001948	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-2.30	-0.001318	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-0.70	-0.000401	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-2.10	-0.001203	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-10	-1.50	-0.000860	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-2.50	-0.001433	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	-4.40	-0.002521	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	-1.20	-0.000688	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	30	-2.10	-0.001203	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	40	-2.50	-0.001433	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	50	-3.50	-0.002006	PASS

~The End~