

Appendix-A LTE Band 7

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.19	24.19	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.19	24.19	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.29	24.29	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.68	23.68	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.96	23.96	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.62	23.62	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.86	23.86	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.72	22.72	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.82	22.82	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#12	22.07	23.07	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.88	22.88	33.00	PASS
Band7	5MHz	64QAM	20775	25RB#0	20.67	21.67	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.14	24.14	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.22	24.22	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.11	24.11	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.65	23.65	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.75	23.75	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.89	23.89	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.7	23.7	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.72	22.72	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.83	22.83	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.86	22.86	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.83	22.83	33.00	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.64	21.64	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.99	23.99	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.12	24.12	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.97	23.97	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.63	23.63	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.58	23.58	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.54	23.54	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.59	23.59	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.59	22.59	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.89	22.89	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.82	22.82	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.92	22.92	33.00	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.57	21.57	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.29	24.29	33.00	PASS

Band7	10MHz	QPSK	20800	1RB#24	23.31	24.31	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.3	24.3	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.79	23.79	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.73	23.73	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.87	23.87	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.48	23.48	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.75	22.75	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.73	22.73	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#24	22.1	23.1	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#49	22.08	23.08	33.00	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.76	21.76	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.17	24.17	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.21	24.21	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.15	24.15	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.63	23.63	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.82	23.82	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.61	23.61	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.58	23.58	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.72	22.72	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.63	22.63	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#24	22.11	23.11	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.79	22.79	33.00	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.75	21.75	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.03	24.03	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.05	24.05	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.02	24.02	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.65	23.65	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.72	23.72	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.61	23.61	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.39	23.39	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.62	22.62	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.67	22.67	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.92	22.92	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.62	22.62	33.00	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.51	21.51	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.24	24.24	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.25	24.25	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.14	24.14	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.7	23.7	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.75	23.75	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	23.04	24.04	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.99	23.99	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.63	22.63	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.99	22.99	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.91	22.91	33.00	PASS

Band7	15MHz	64QAM	20825	1RB#74	21.62	22.62	33.00	PASS
Band7	15MHz	64QAM	20825	75RB#0	20.7	21.7	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23	24	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.07	24.07	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.97	23.97	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.59	23.59	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.83	23.83	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.75	23.75	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.32	23.32	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.64	22.64	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.68	22.68	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.93	22.93	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#74	21.65	22.65	33.00	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.53	21.53	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.95	23.95	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.99	23.99	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.94	23.94	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.59	23.59	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.55	23.55	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.68	23.68	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.5	23.5	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.6	22.6	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.75	22.75	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.64	22.64	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.43	22.43	33.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.57	21.57	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.14	24.14	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.27	24.27	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.23	24.23	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.78	23.78	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.9	23.9	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	23.06	24.06	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.83	23.83	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.85	22.85	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.94	22.94	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.88	22.88	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#99	22.06	23.06	33.00	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.7	21.7	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.05	24.05	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.19	24.19	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.03	24.03	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.72	23.72	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.66	23.66	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.71	23.71	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.67	23.67	33.00	PASS

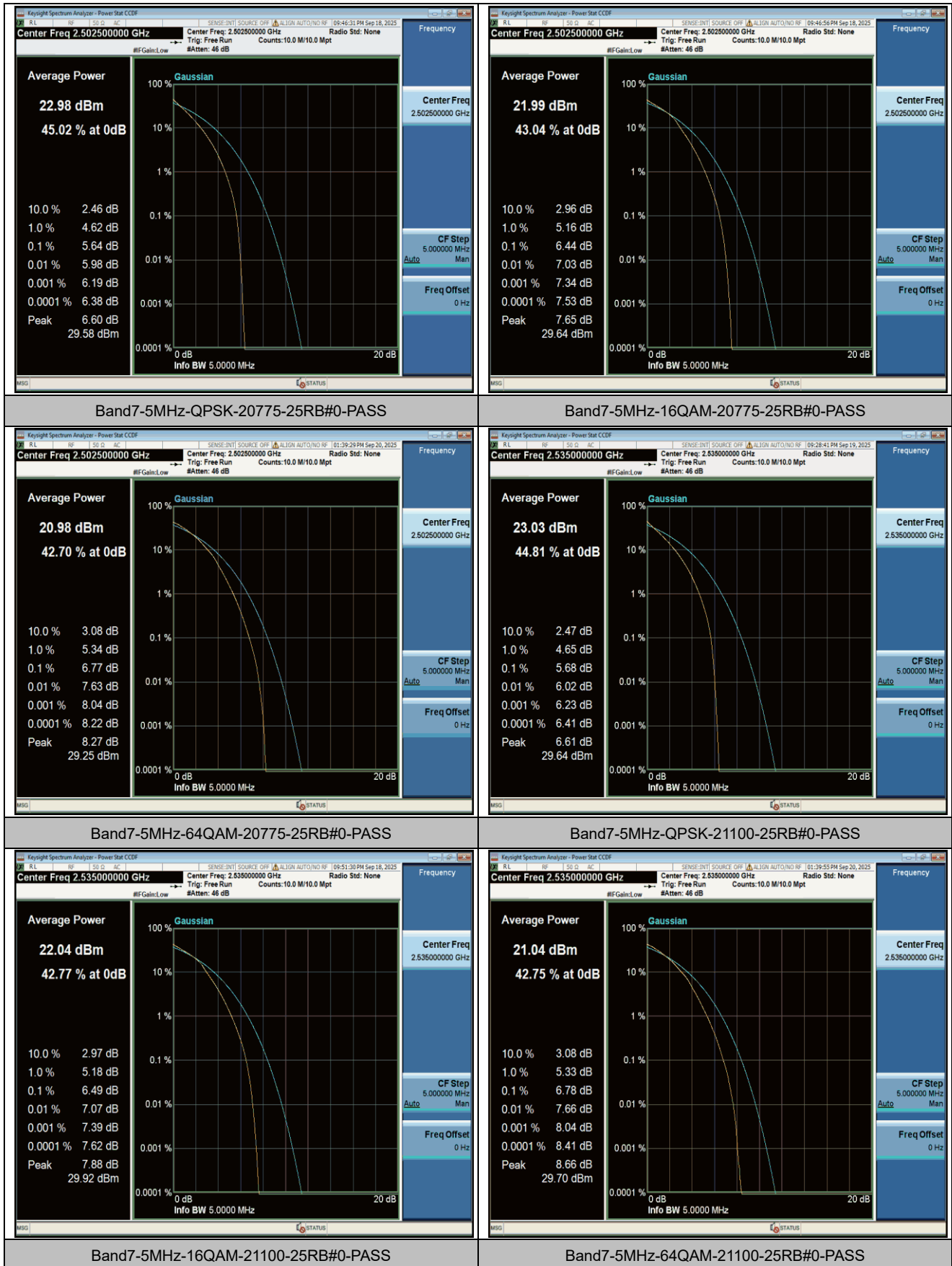
Band7	20MHz	16QAM	21100	100RB#0	21.68	22.68	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.65	22.65	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#49	22.04	23.04	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.98	22.98	33.00	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.54	21.54	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.07	24.07	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.13	24.13	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.89	23.89	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.62	23.62	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.7	23.7	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.75	23.75	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.42	23.42	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.61	22.61	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.59	22.59	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.75	22.75	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.75	22.75	33.00	PASS
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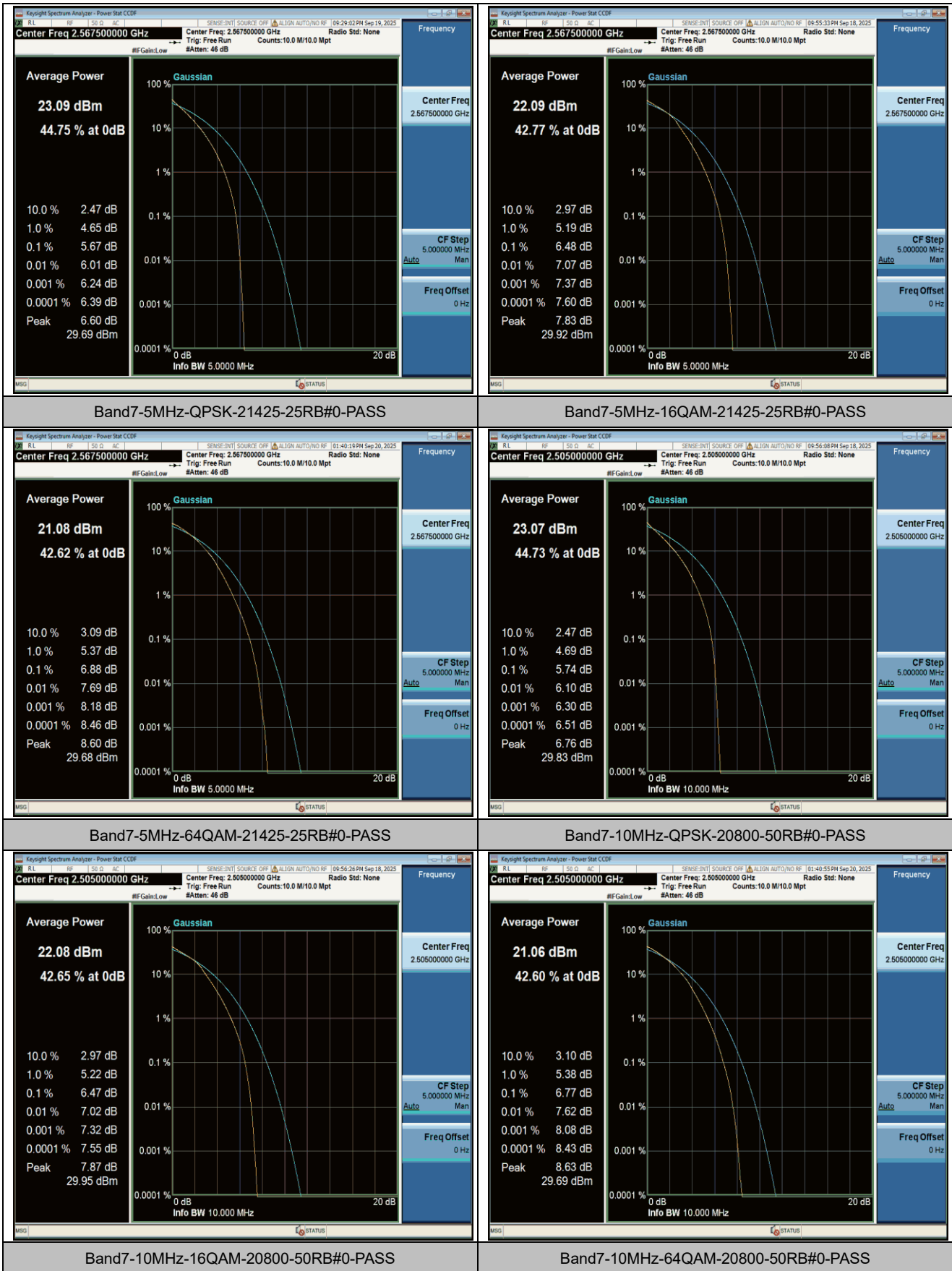
Peak-to-Average Ratio(CCDF)

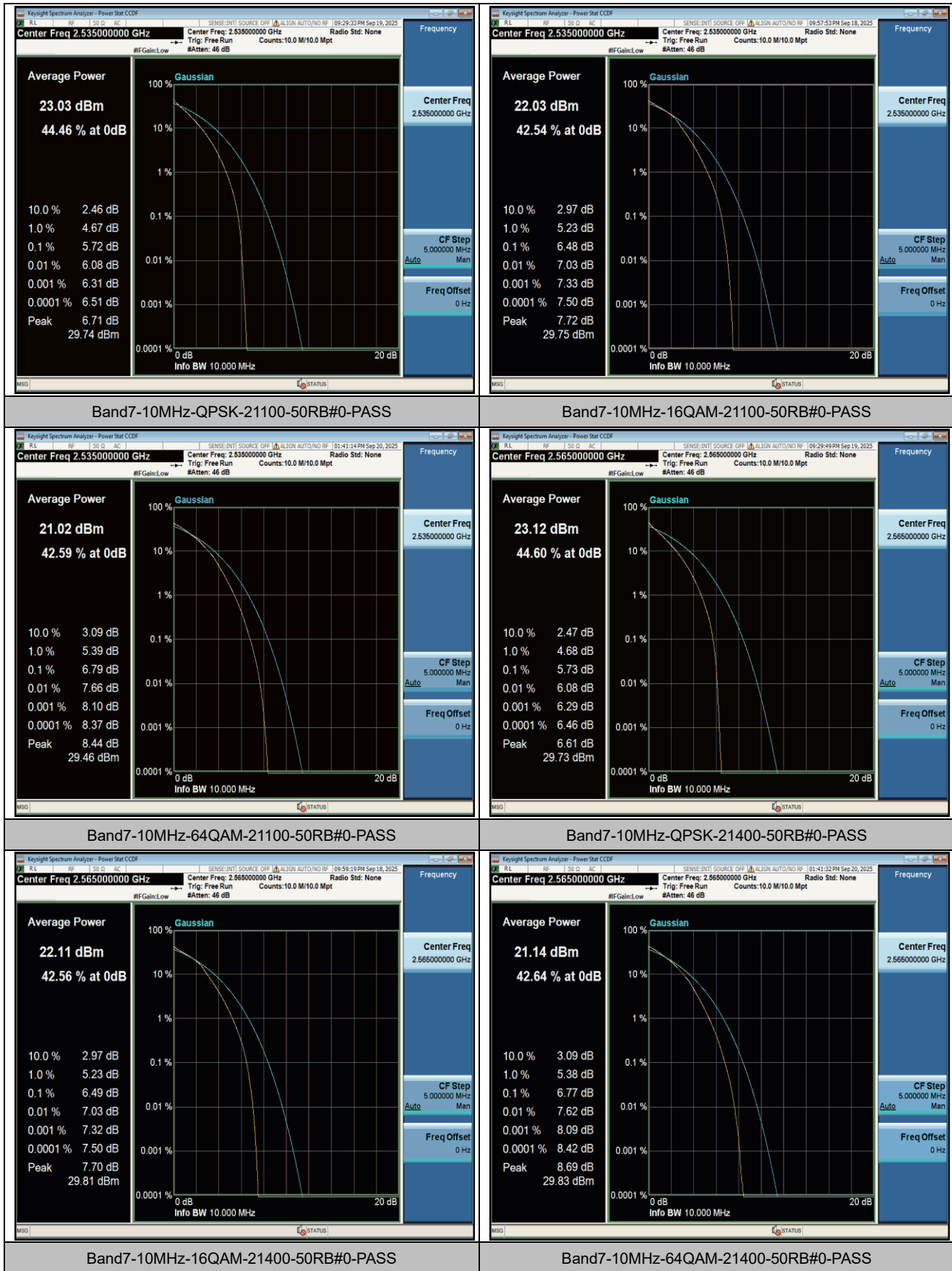
Test Result

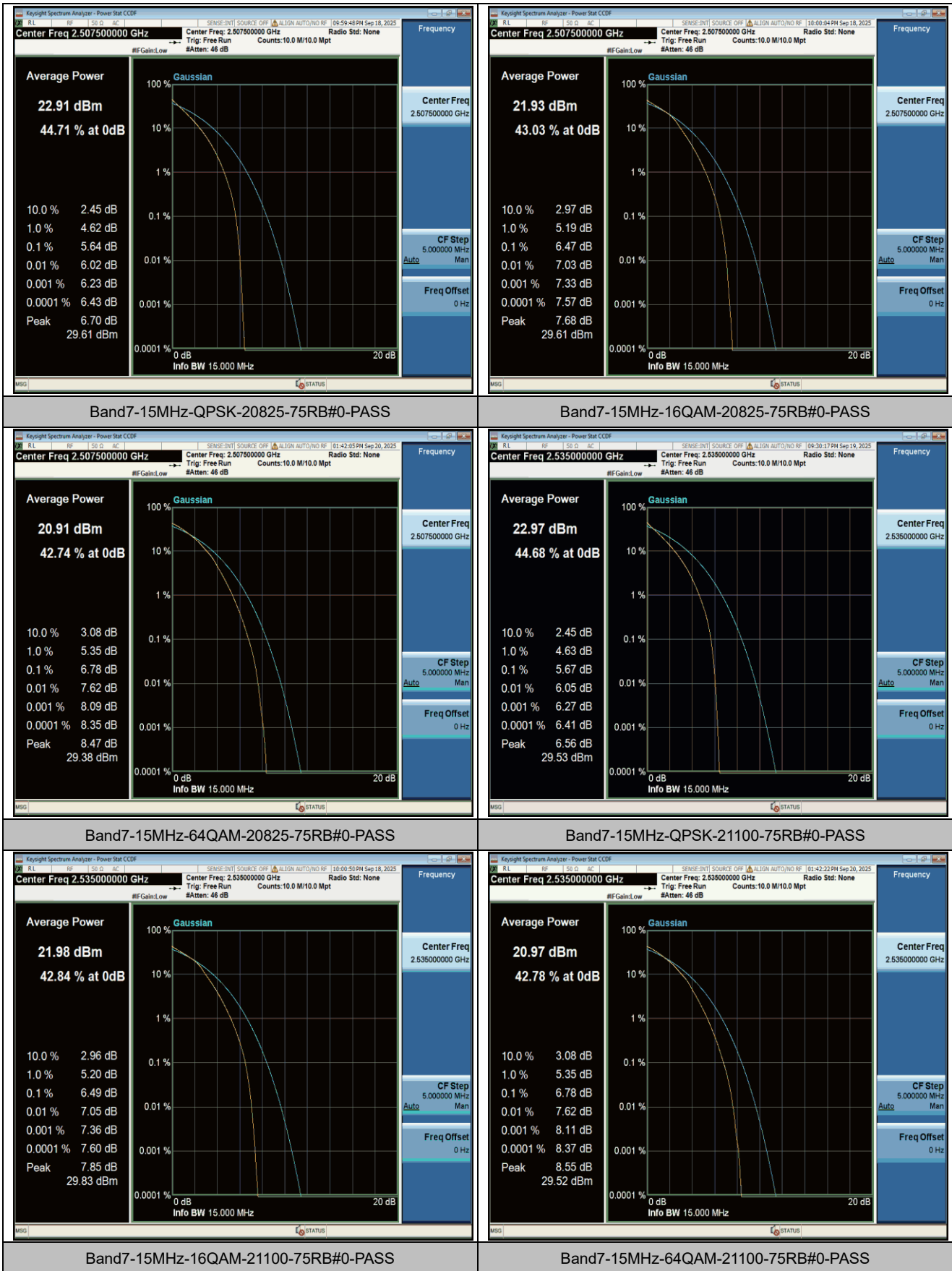
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	5.64	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.44	13	PASS
Band7	5MHz	64QAM	20775	25RB#0	6.77	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.68	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.49	13	PASS
Band7	5MHz	64QAM	21100	25RB#0	6.78	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.67	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	6.48	13	PASS
Band7	5MHz	64QAM	21425	25RB#0	6.88	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.74	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.47	13	PASS
Band7	10MHz	64QAM	20800	50RB#0	6.77	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.72	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.48	13	PASS
Band7	10MHz	64QAM	21100	50RB#0	6.79	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.73	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.49	13	PASS
Band7	10MHz	64QAM	21400	50RB#0	6.77	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.64	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.47	13	PASS
Band7	15MHz	64QAM	20825	75RB#0	6.78	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.67	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.49	13	PASS
Band7	15MHz	64QAM	21100	75RB#0	6.78	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.65	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.49	13	PASS
Band7	15MHz	64QAM	21375	75RB#0	6.77	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.54	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.44	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.77	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.61	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.49	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.83	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.58	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.48	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.80	13	PASS

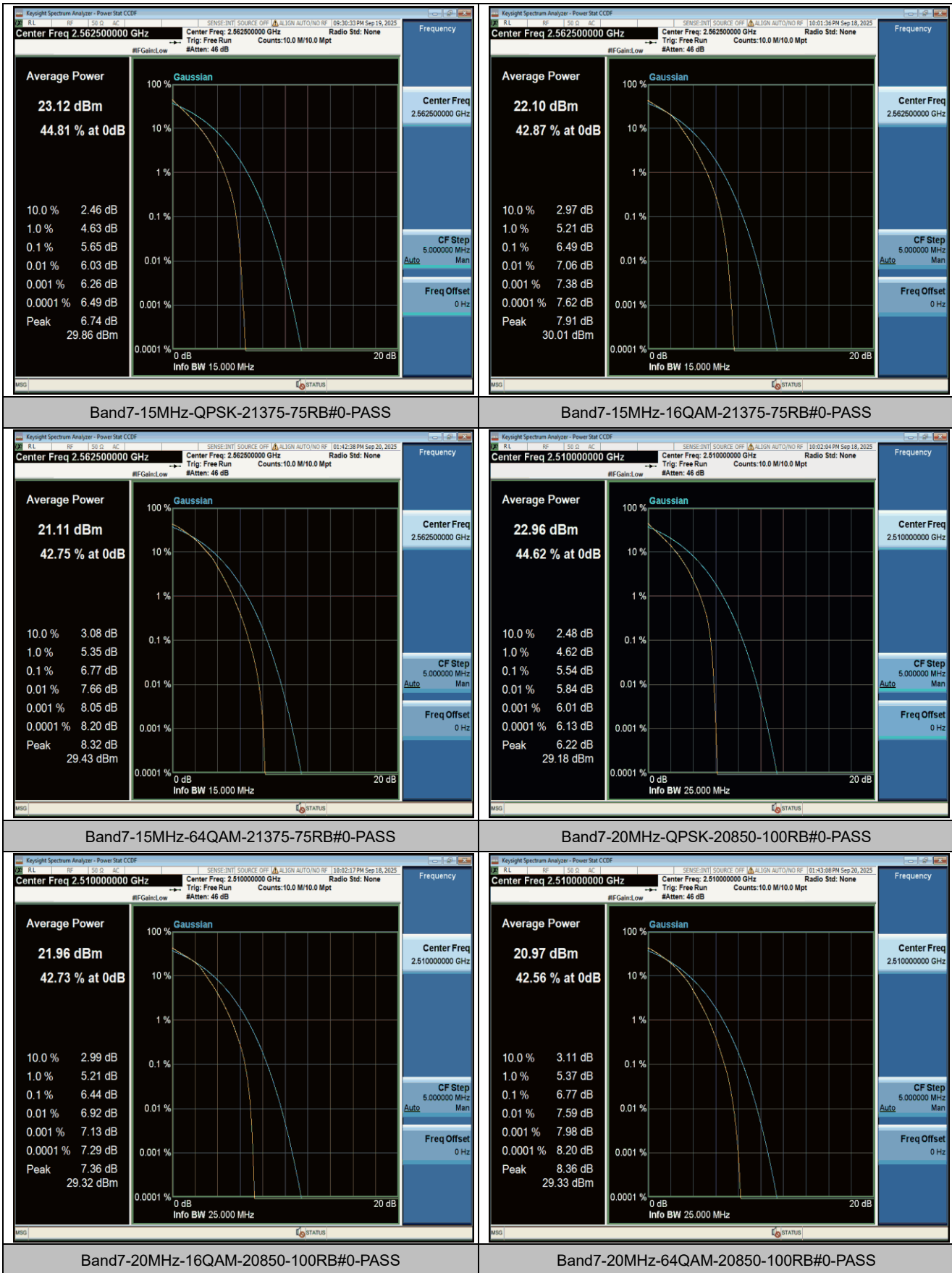
Test Graphs

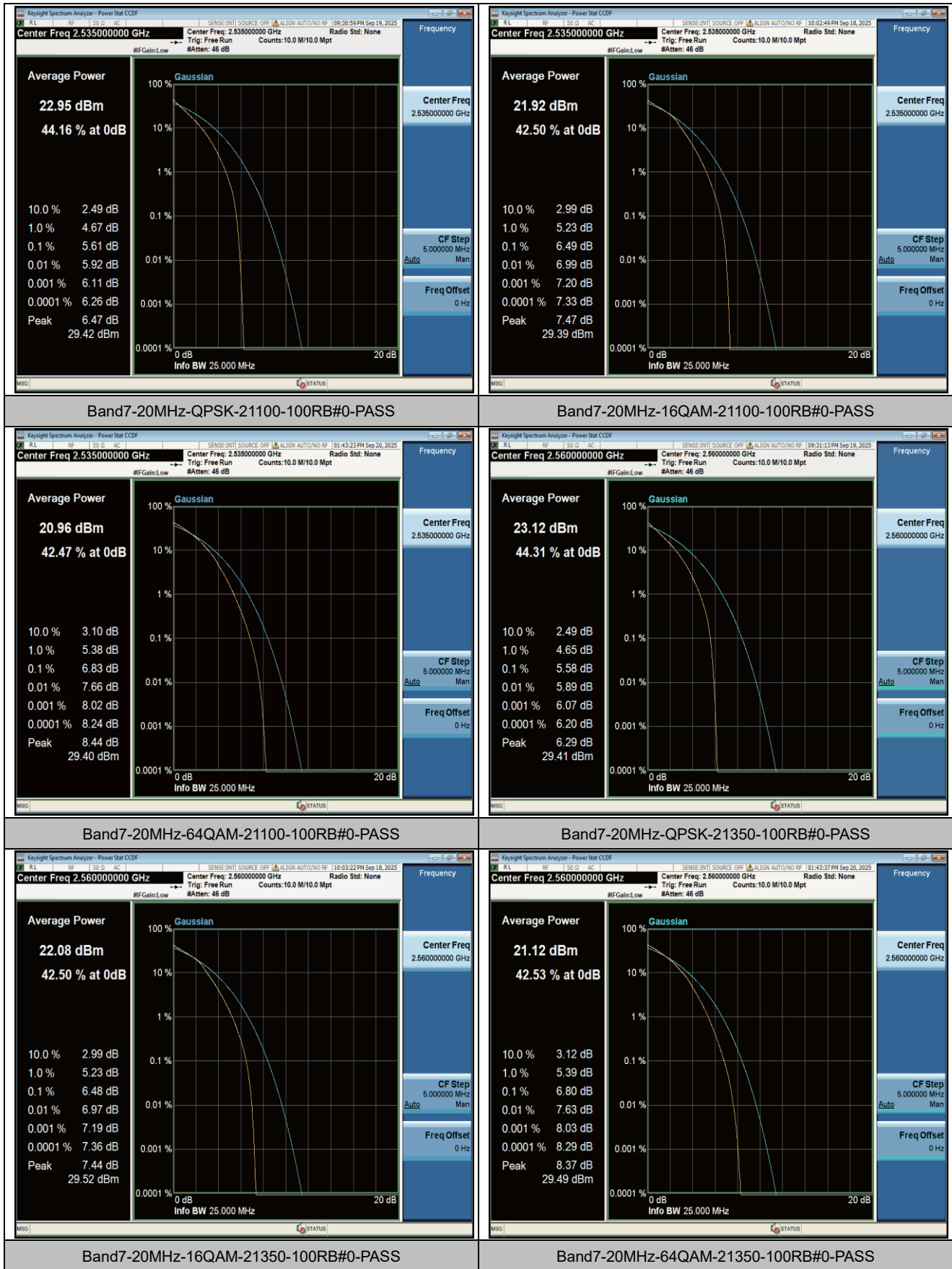










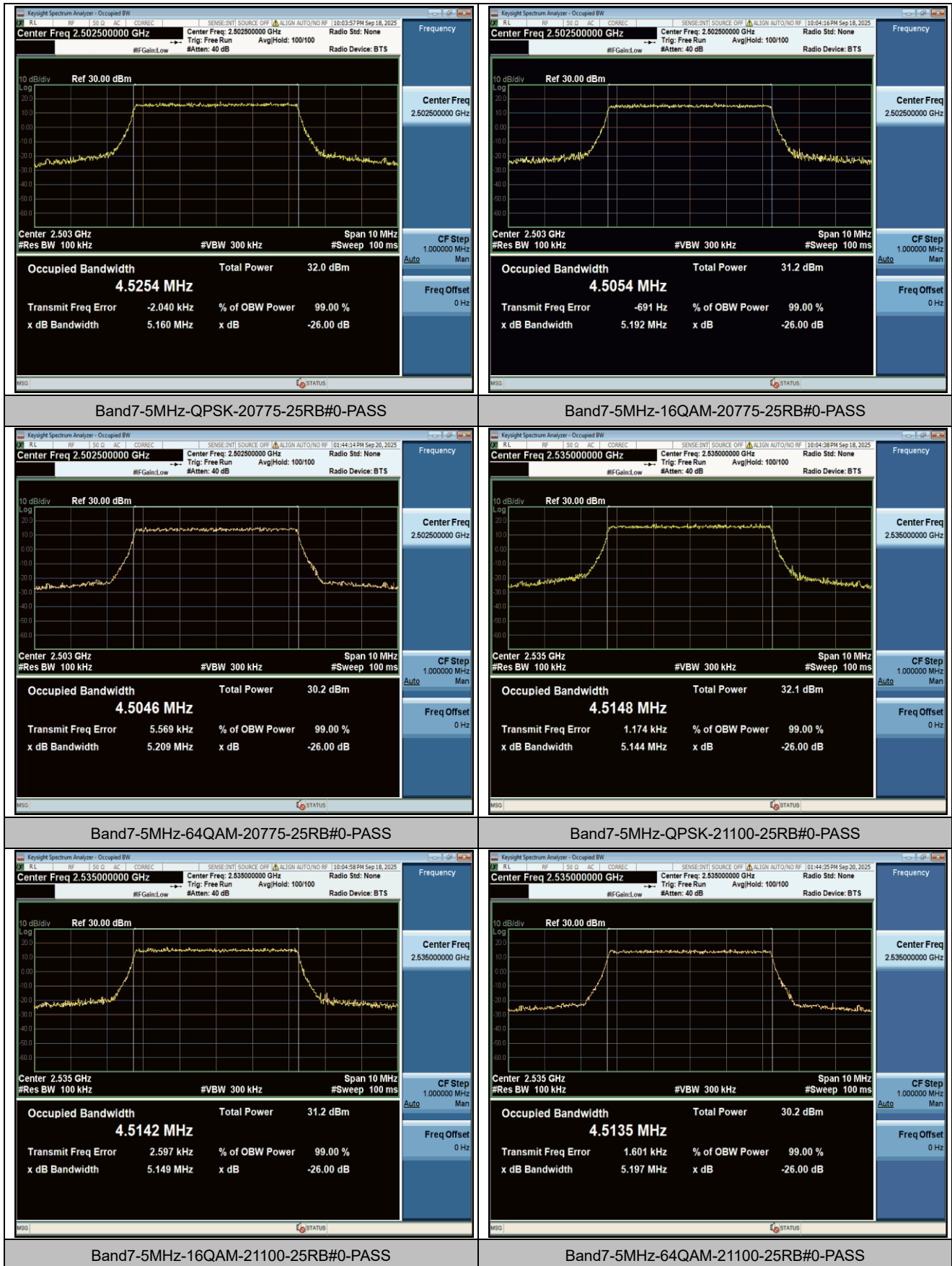


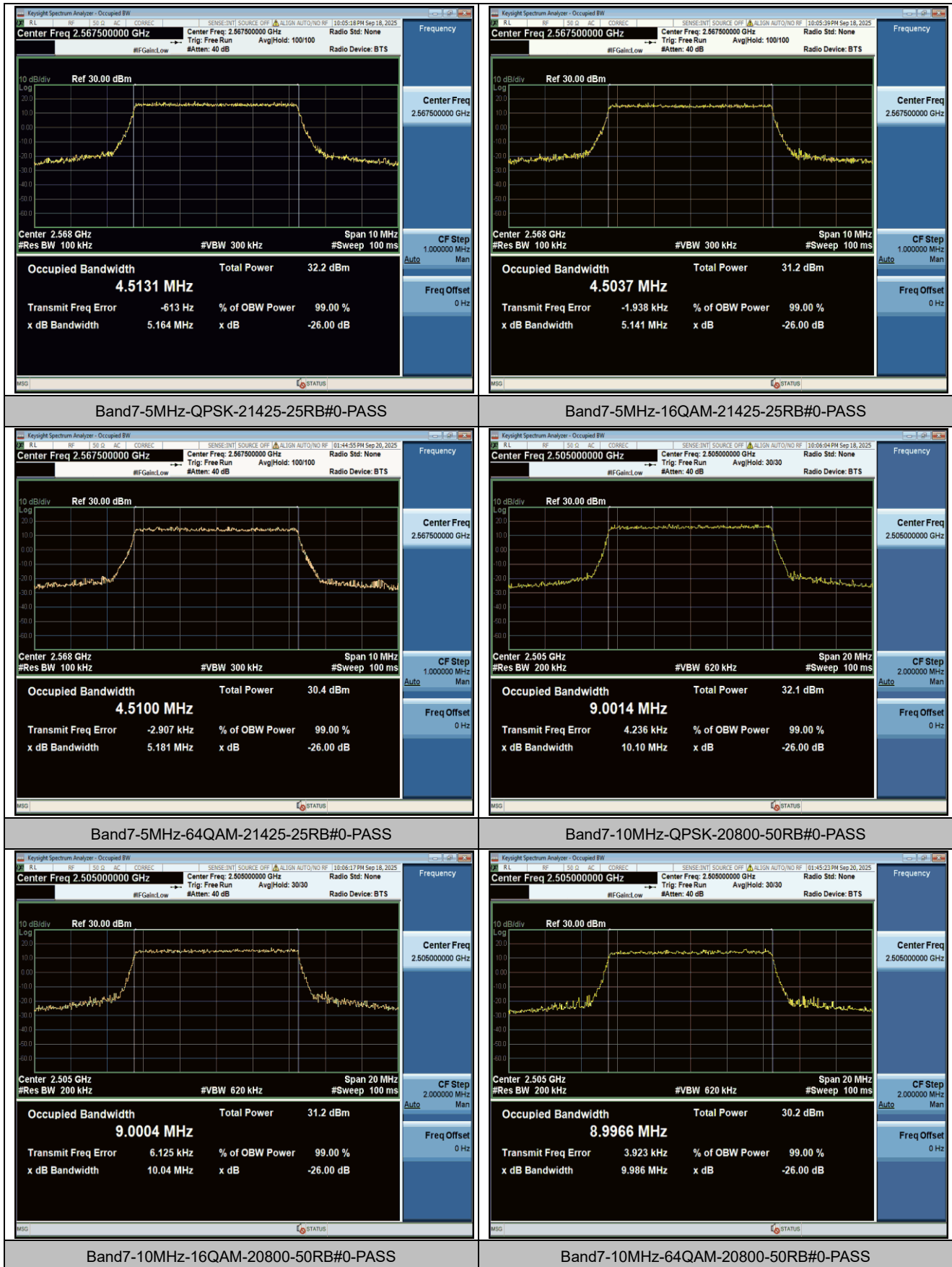
26dB Bandwidth and Occupied Bandwidth

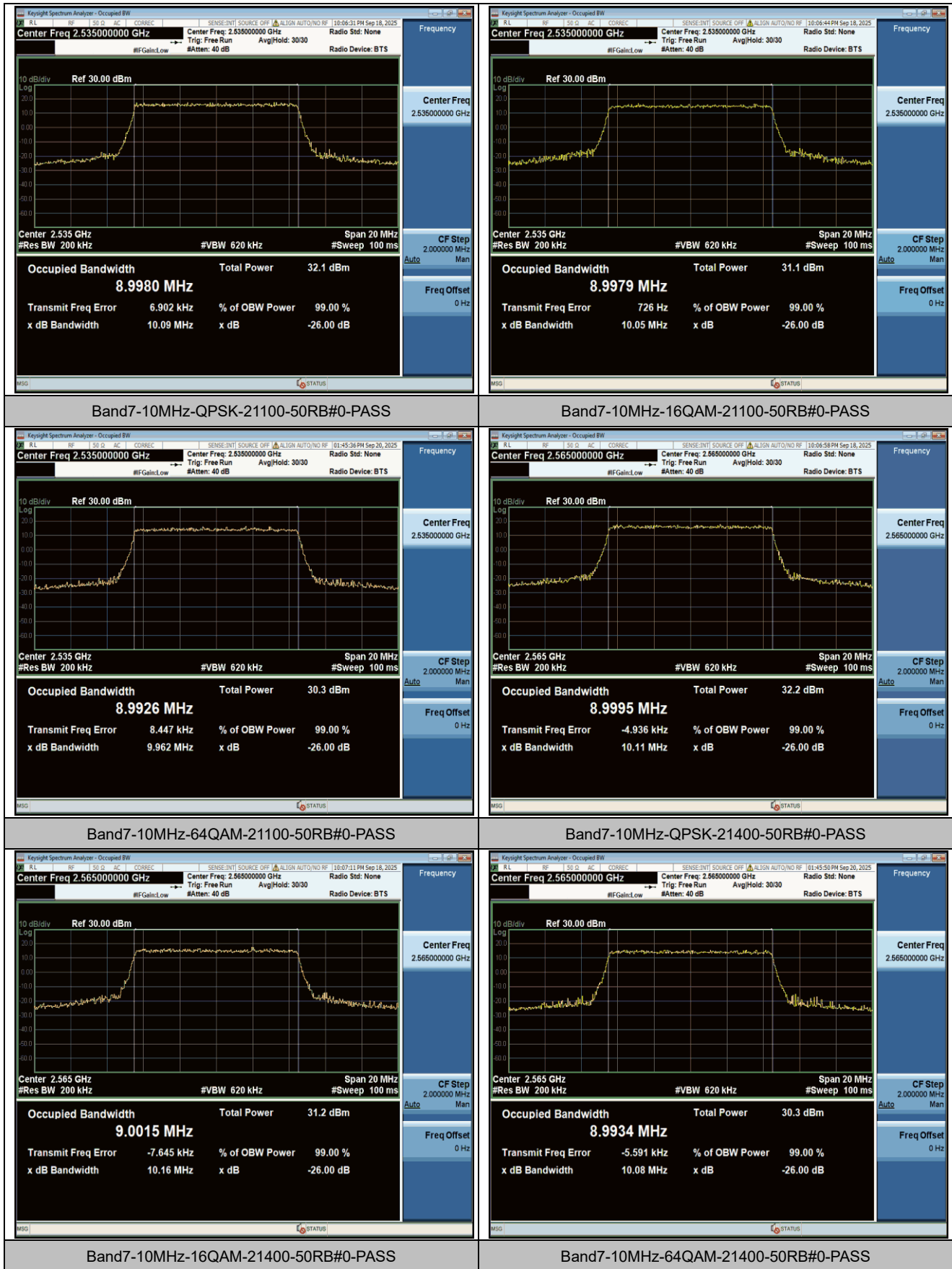
Test Result

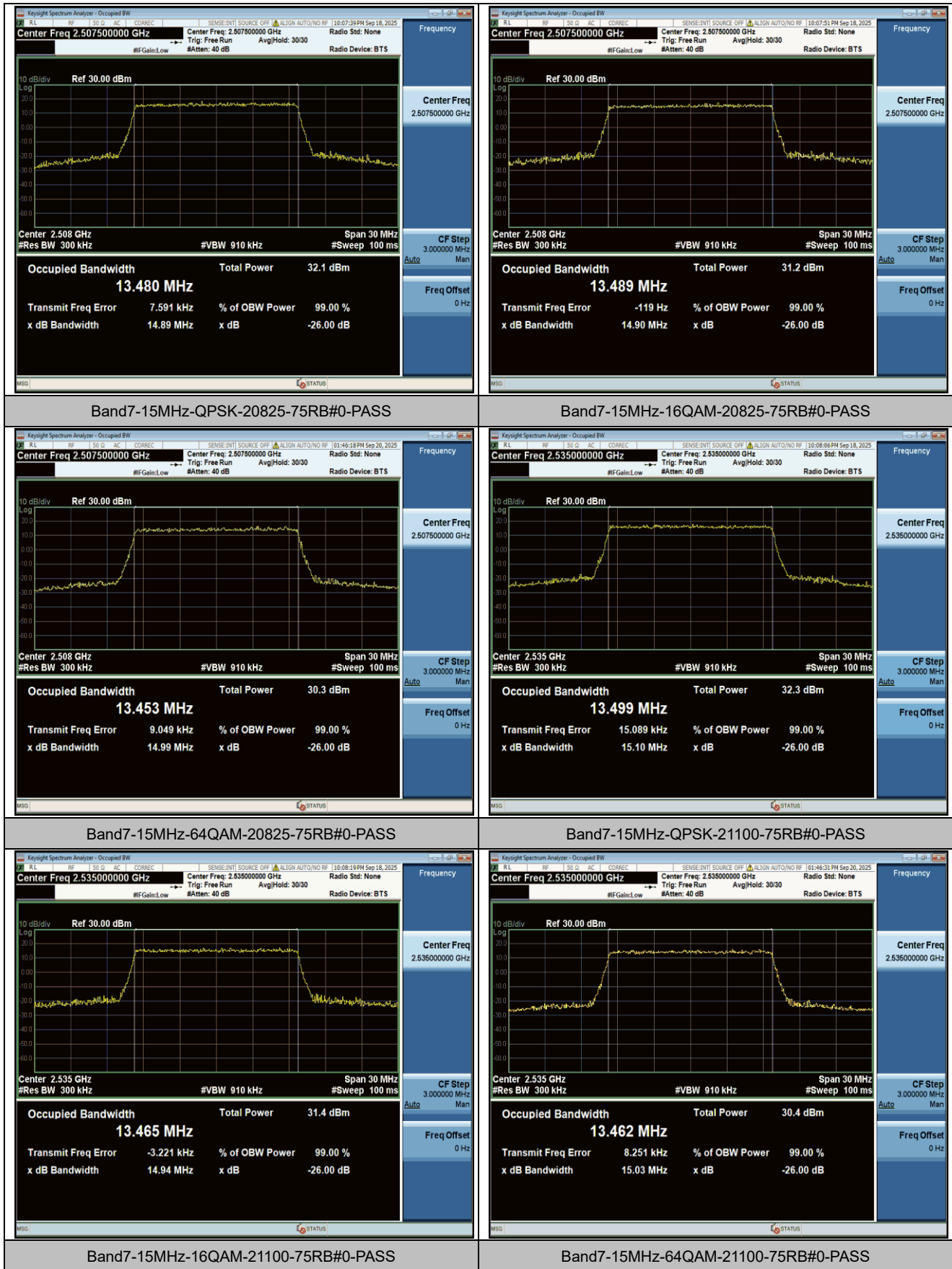
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5254	5.160	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5054	5.192	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.5046	5.209	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5148	5.144	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5142	5.149	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.5135	5.197	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5131	5.164	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5037	5.141	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.5100	5.181	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.0014	10.10	PASS
Band7	10MHz	16QAM	20800	50RB#0	9.0004	10.04	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.9966	9.986	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9980	10.09	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9979	10.05	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.9926	9.962	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9995	10.11	PASS
Band7	10MHz	16QAM	21400	50RB#0	9.0015	10.16	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.9934	10.08	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.480	14.89	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.489	14.90	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.453	14.99	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.499	15.10	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.465	14.94	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.462	15.03	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.490	14.93	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.490	15.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.478	15.01	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.988	19.70	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.945	19.68	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.958	19.88	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.979	19.96	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.981	19.78	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.982	19.90	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.944	19.80	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.980	19.81	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.926	19.93	PASS

Test Graphs



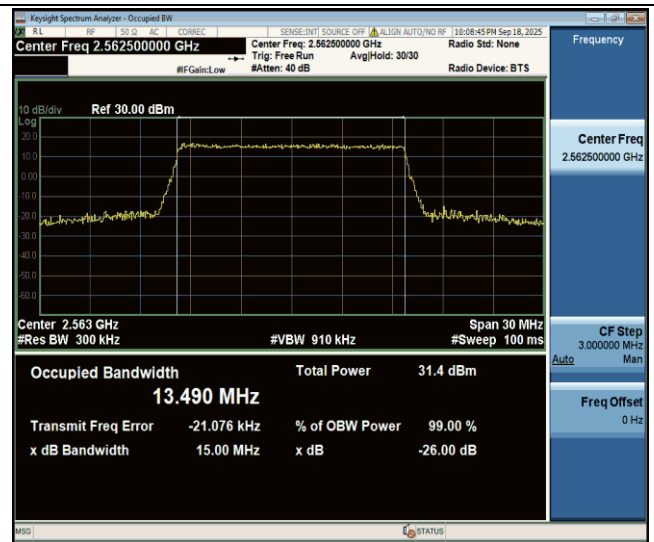




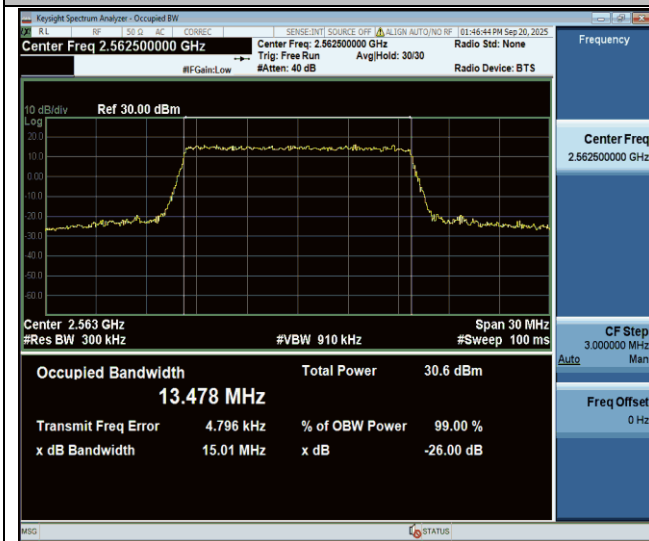




Band7-15MHz-QPSK-21375-75RB#0-PASS



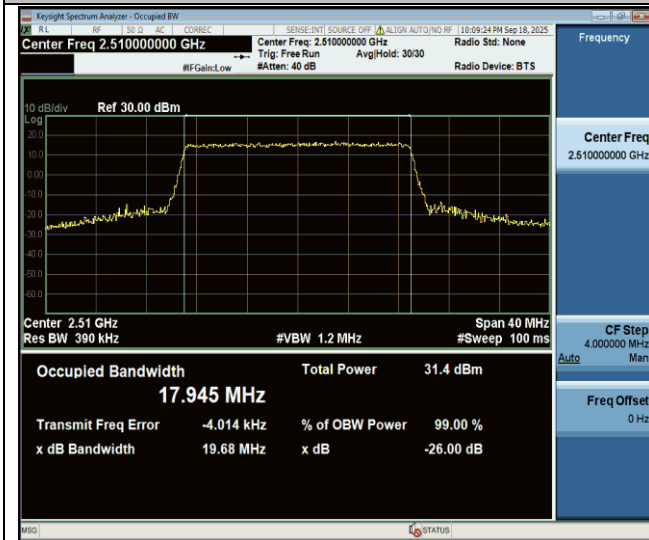
Band7-15MHz-16QAM-21375-75RB#0-PASS



Band7-15MHz-64QAM-21375-75RB#0-PASS



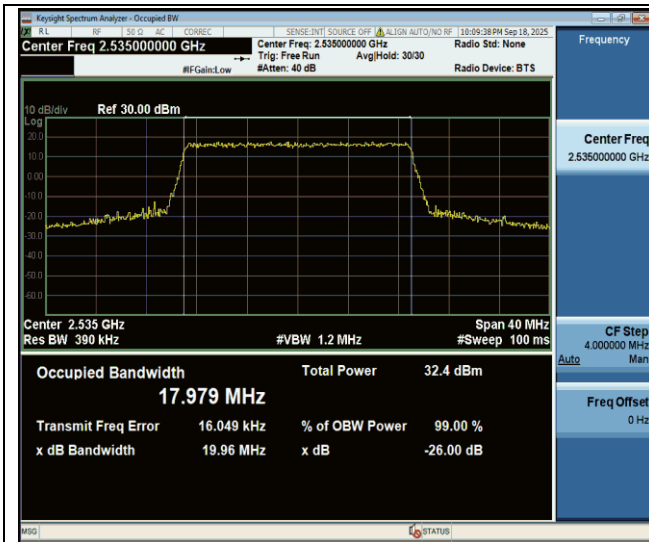
Band7-20MHz-QPSK-20850-100RB#0-PASS



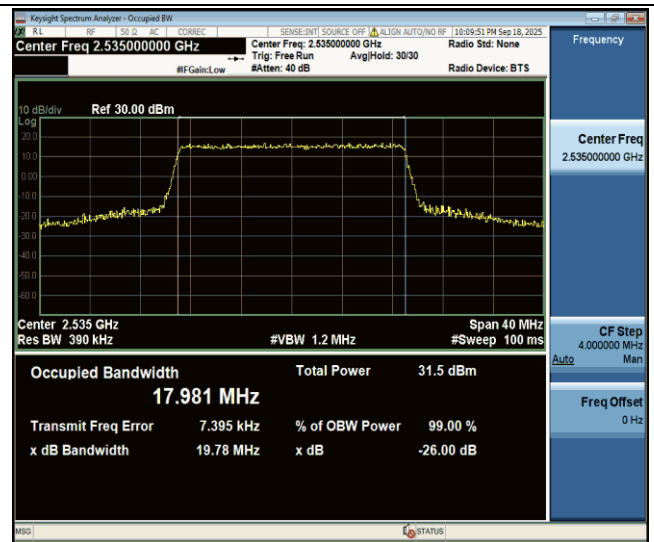
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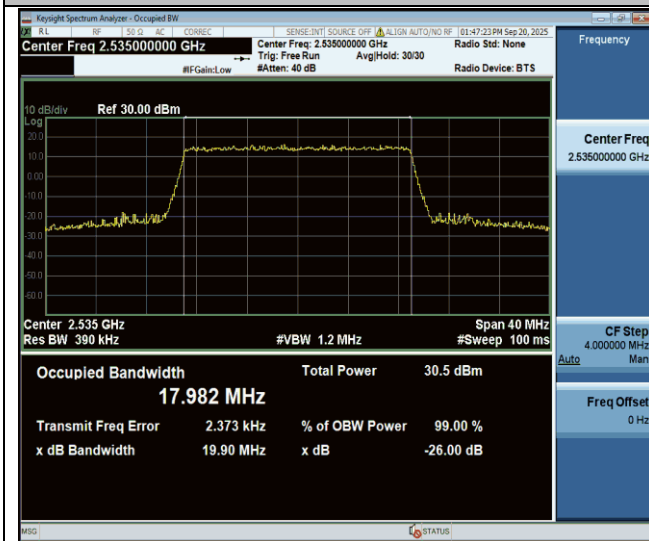
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Band7-20MHz-QPSK-21100-100RB#0-PASS



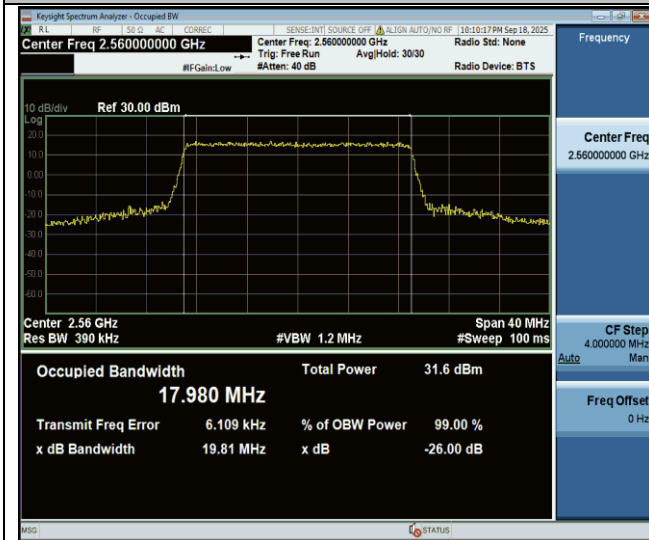
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Band7-20MHz-64QAM-21100-100RB#0-PASS



Band7-20MHz-QPSK-21350-100RB#0-PASS



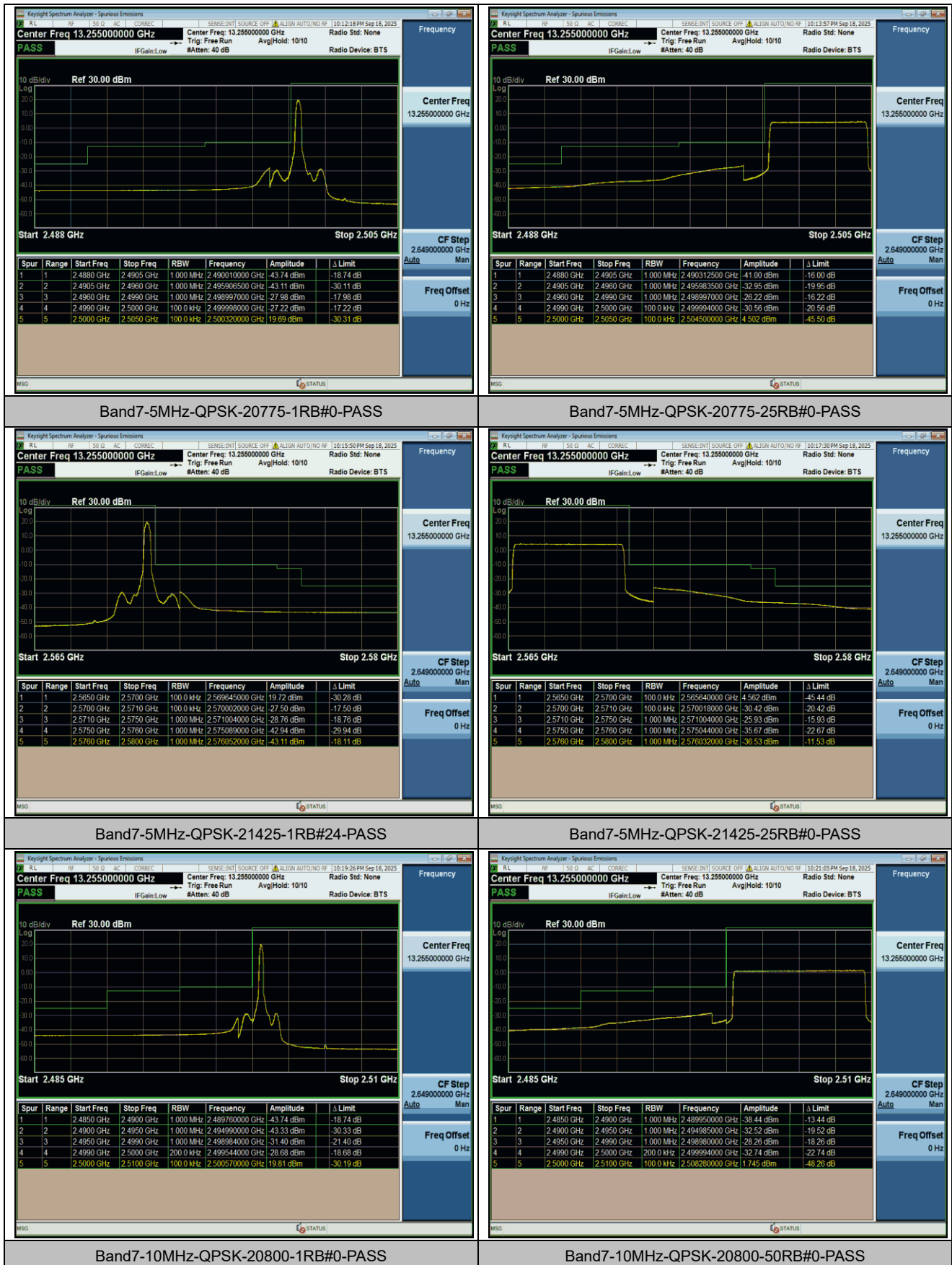
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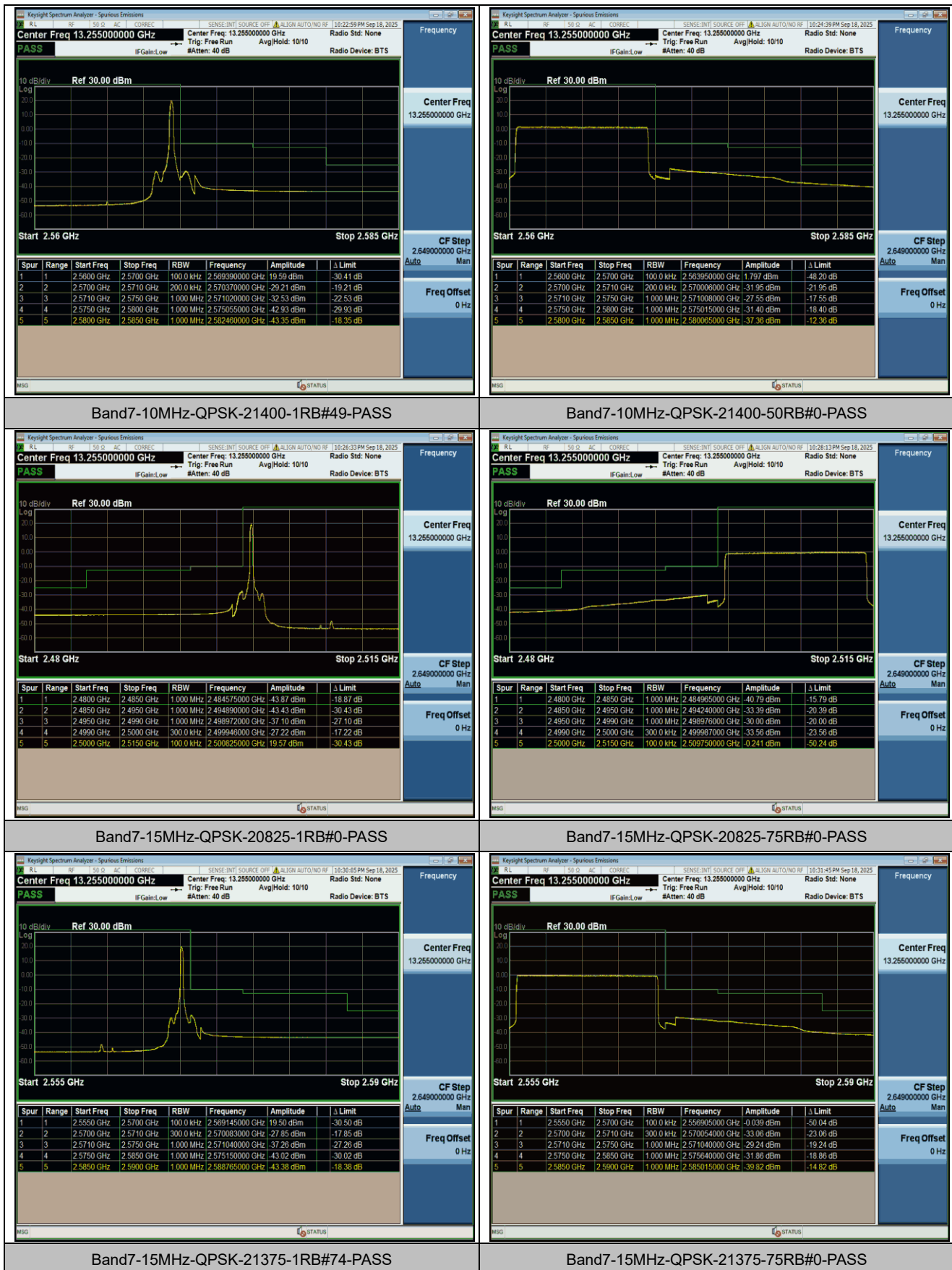


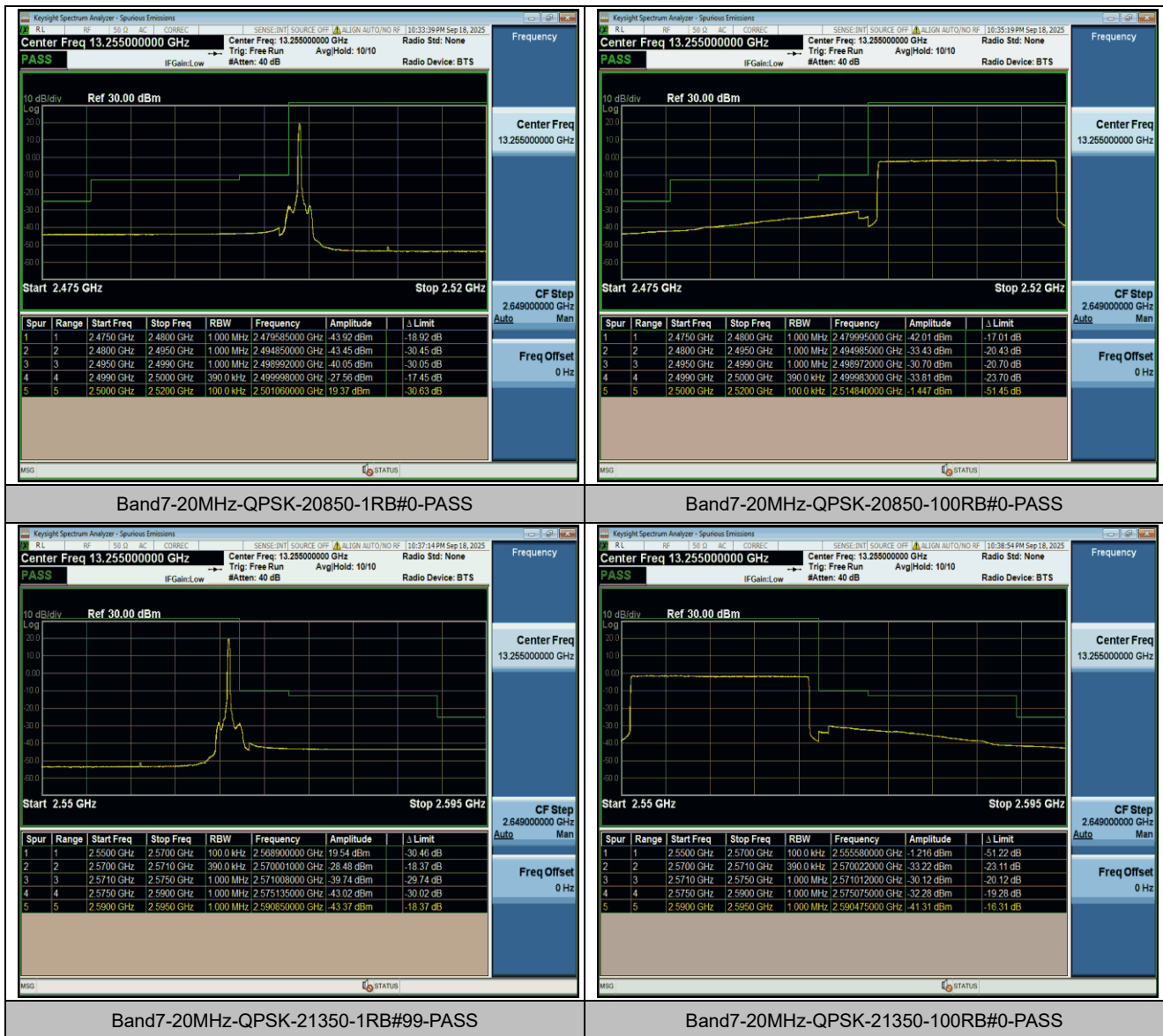
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Band Edge

Test Graphs

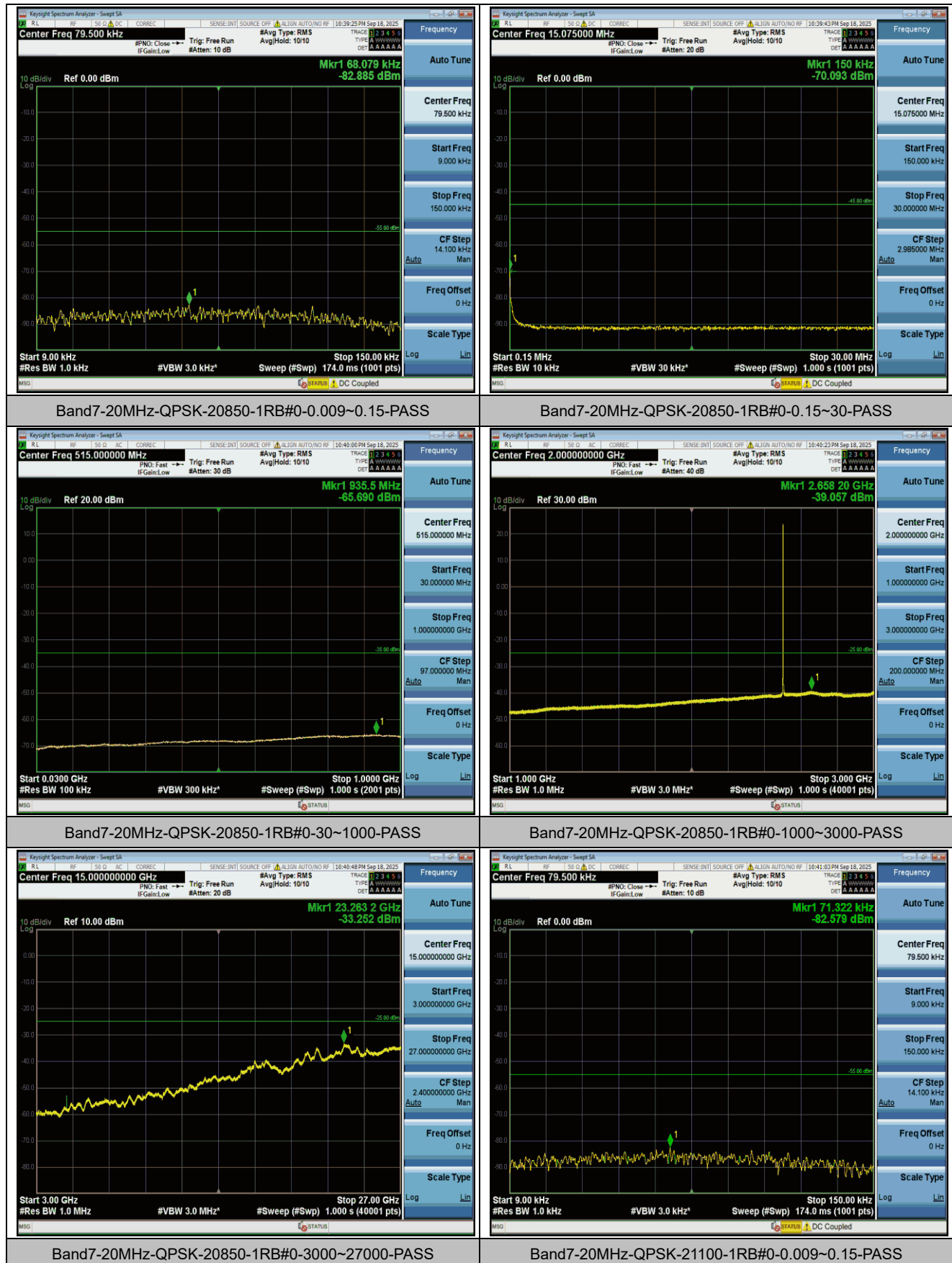


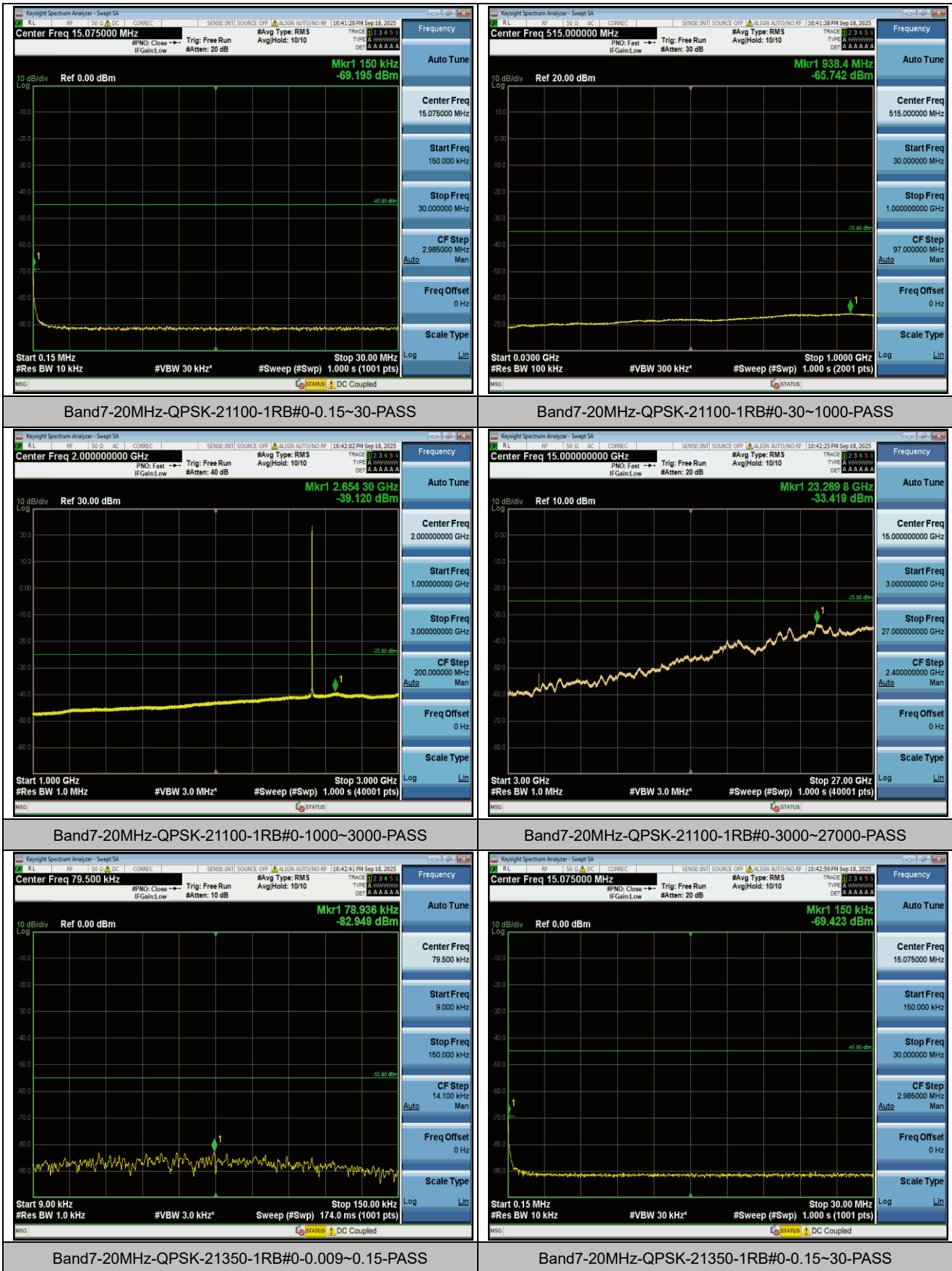




Conducted Spurious Emission

Test Graphs







Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-0.10	-0.000039	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-1.40	-0.000552	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-3.40	-0.001341	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-2.00	-0.000789	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-3.30	-0.001302	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-2.60	-0.001026	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-3.00	-0.001183	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-1.90	-0.000750	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-1.20	-0.000473	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-3.40	-0.001341	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-1.60	-0.000631	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-2.60	-0.001026	PASS

~The End~