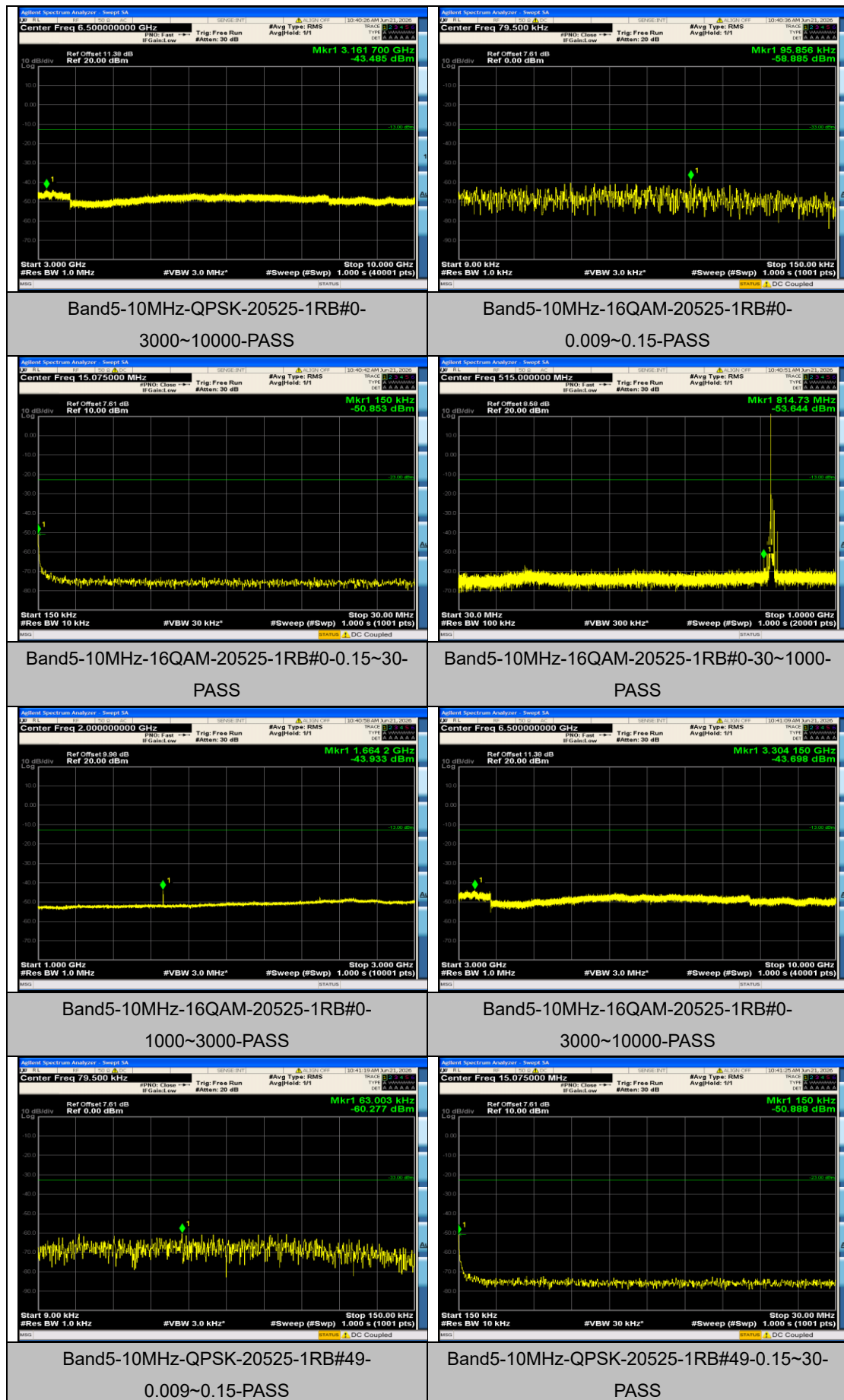
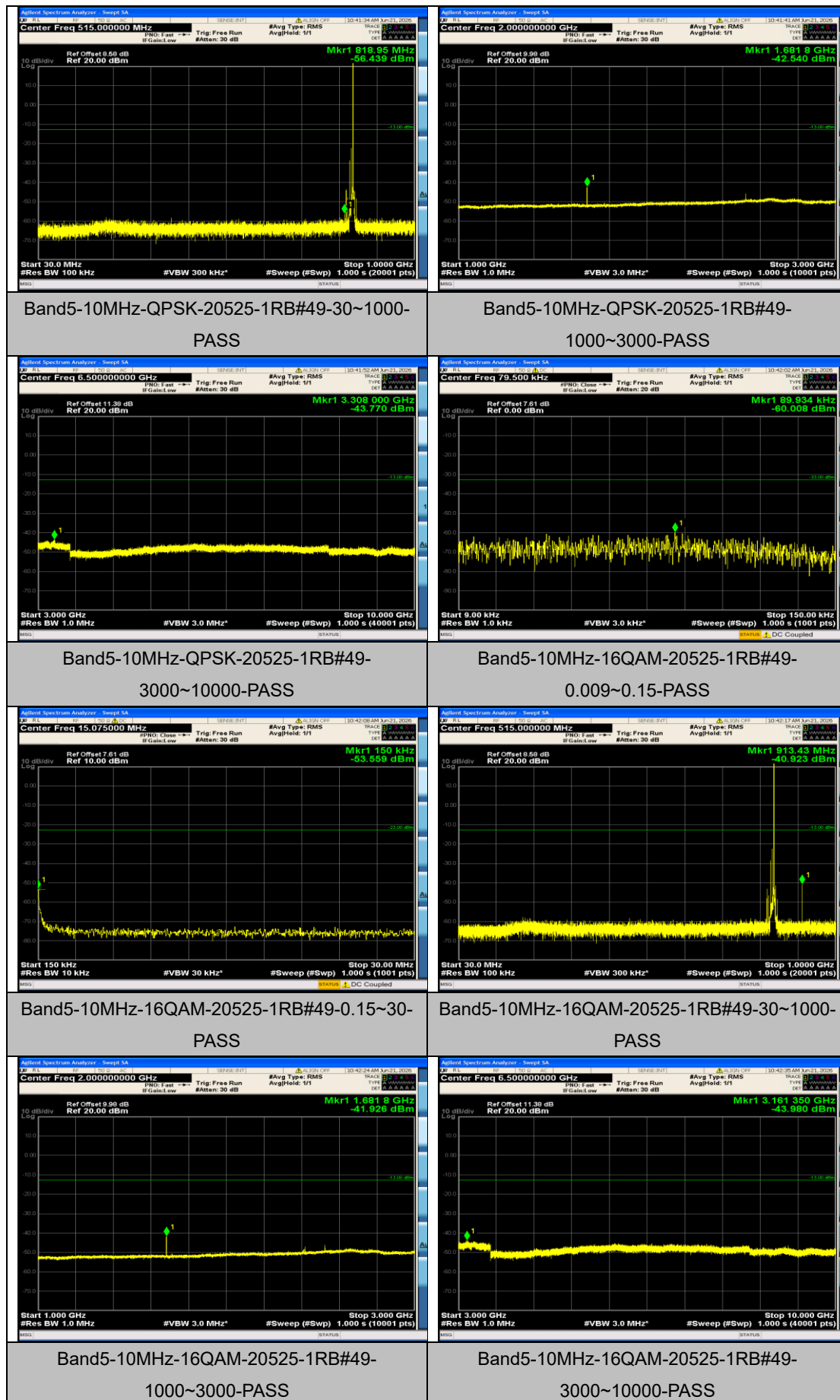
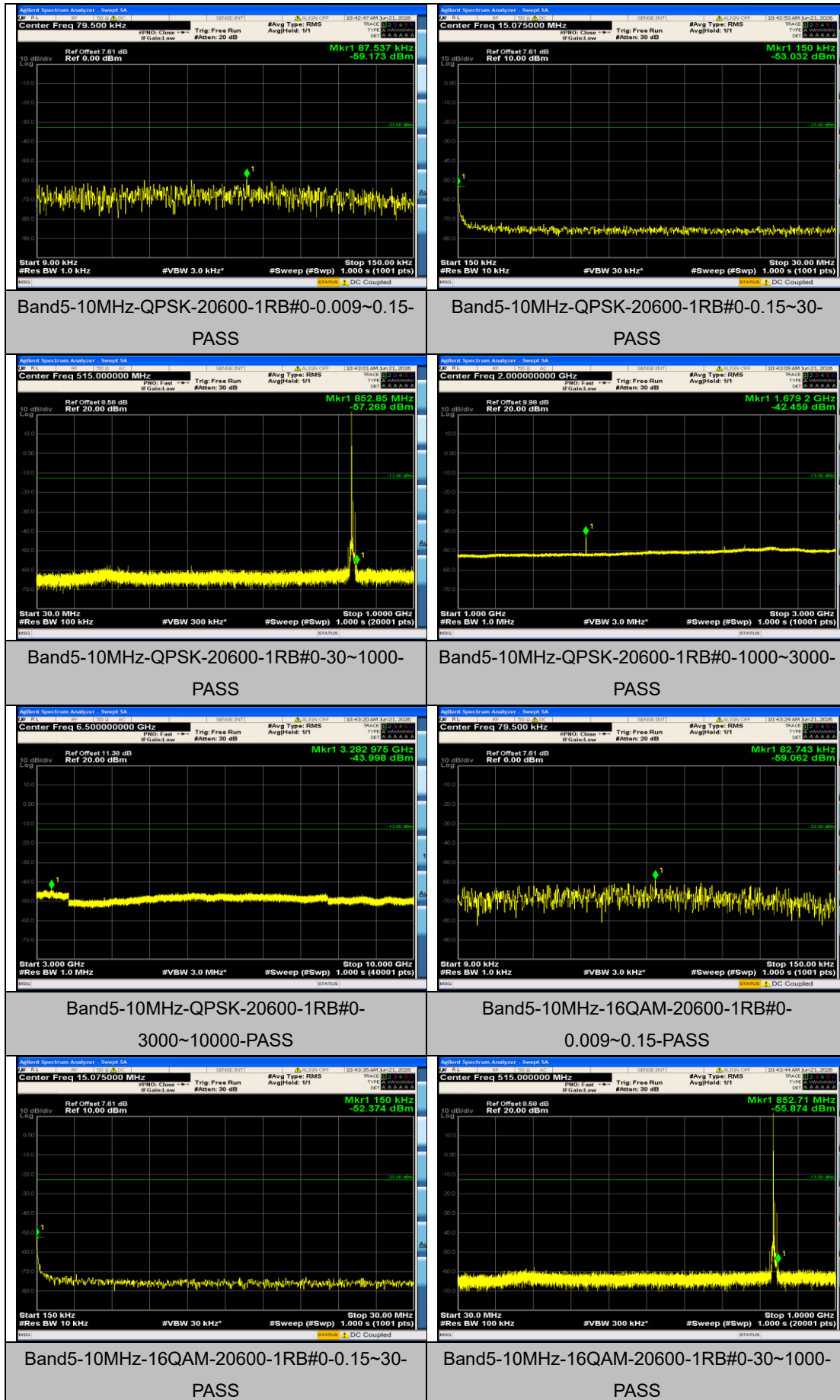
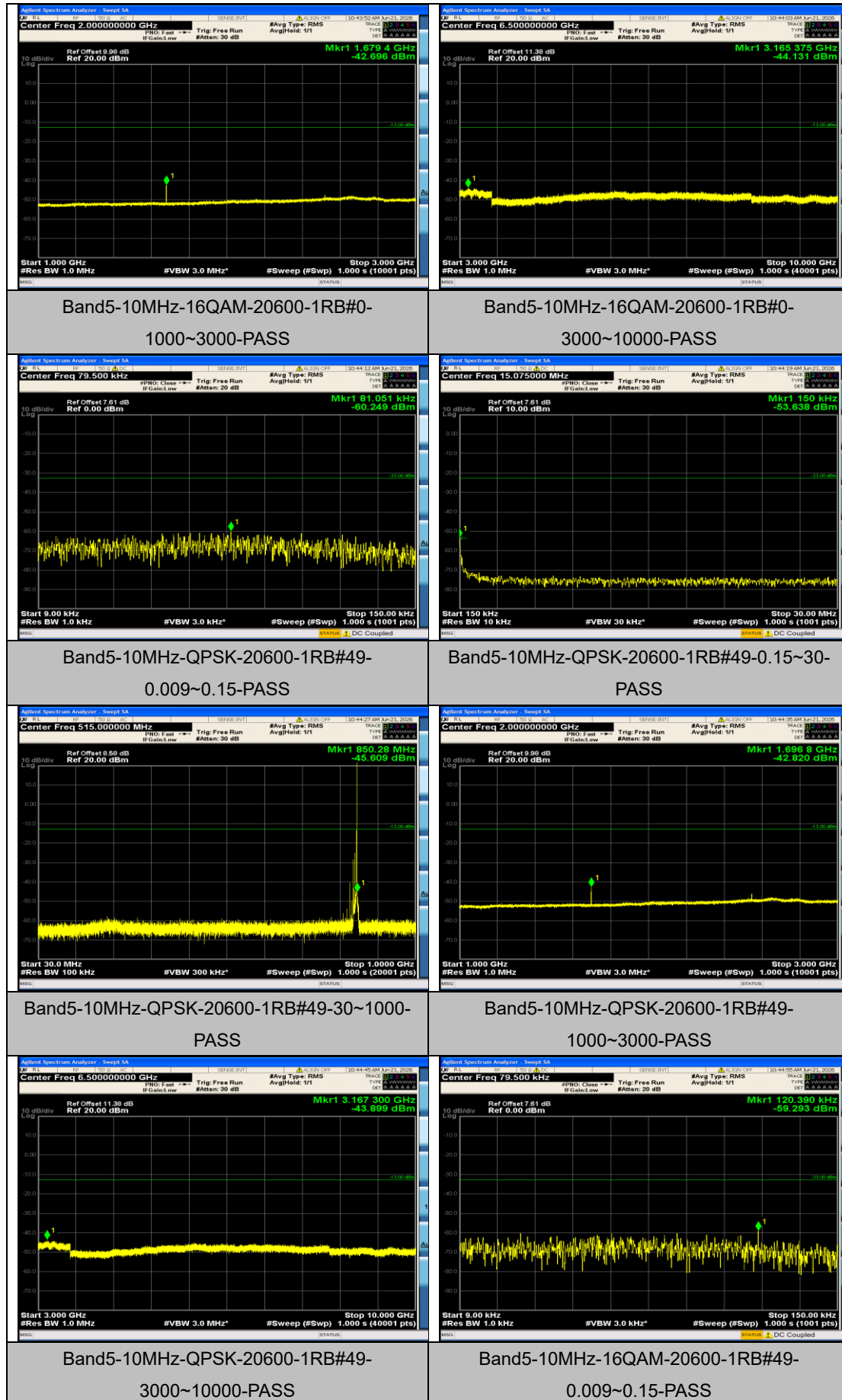
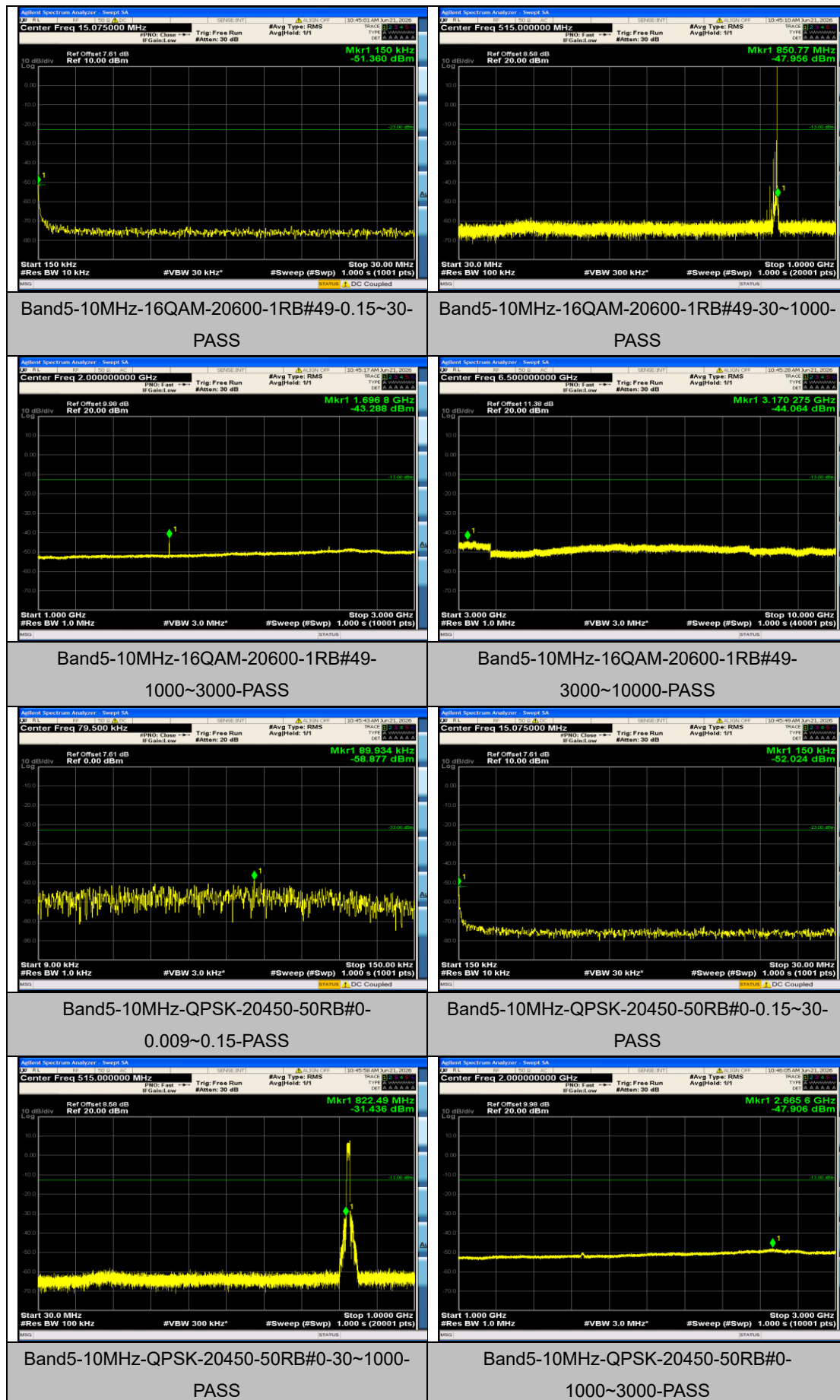


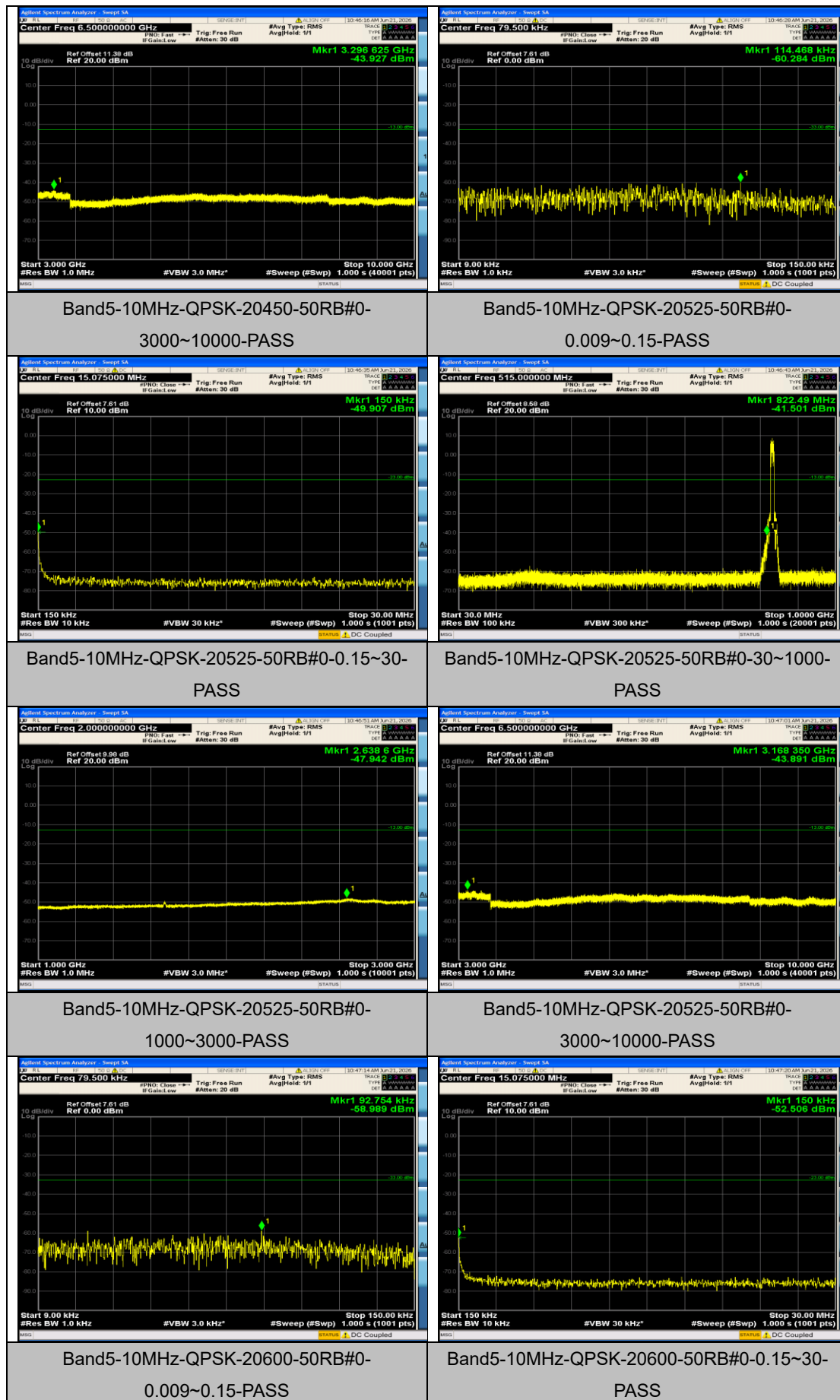


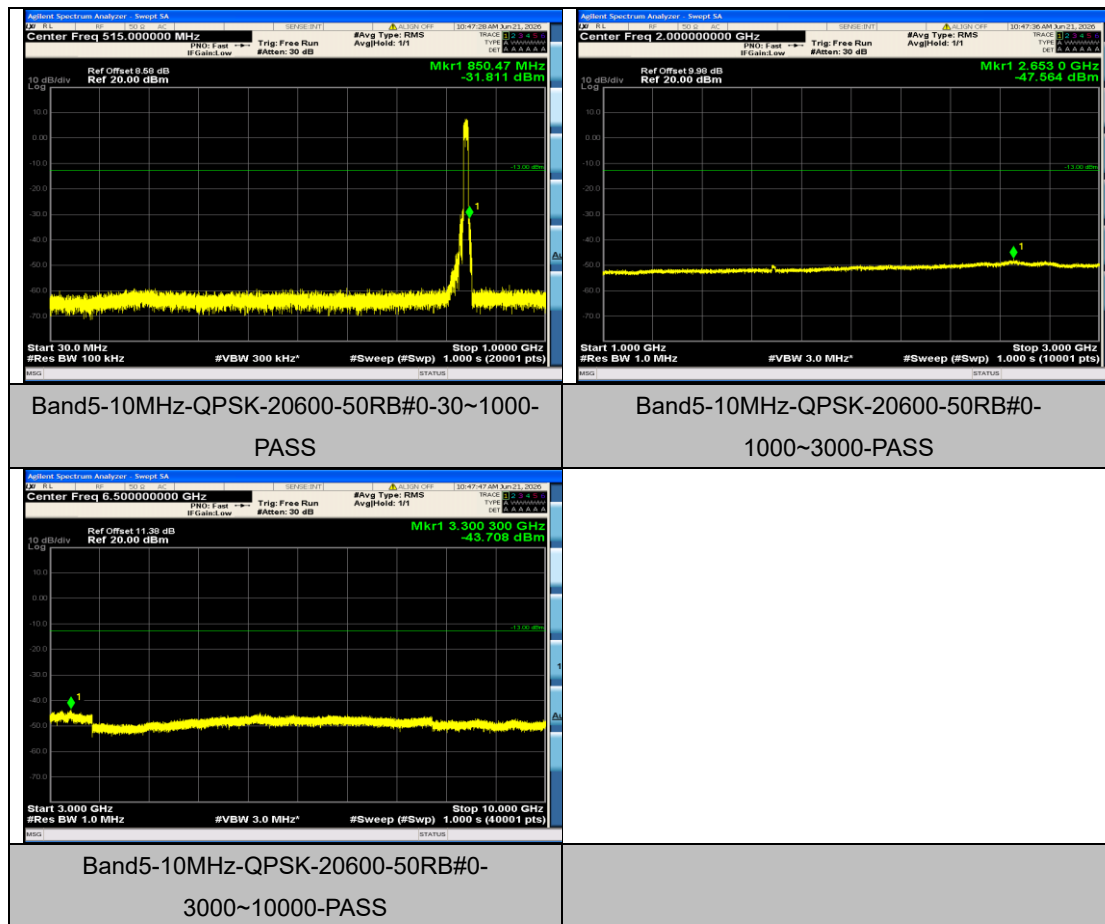












Appendix F: Frequency Stability

Test Result

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-30	-13.90	-0.016855	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-20	-4.19	-0.005081	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-10	-14.95	-0.018128	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	0	-24.36	-0.029538	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	10	-7.05	-0.008549	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	20	-3.32	-0.004026	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	30	-11.76	-0.014260	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	40	-6.97	-0.008452	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	50	-12.23	-0.014830	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-30	-6.69	-0.008112	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-20	18.20	0.022069	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-10	-10.16	-0.012320	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	0	-10.69	-0.012962	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	10	9.84	0.011932	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	20	-11.43	-0.013860	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	30	15.05	0.018249	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	40	12.33	0.014951	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	50	21.74	0.026361	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	-8.30	-0.009922	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	10.54	0.012600	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-10	-25.01	-0.029898	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	-14.48	-0.017310	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	-19.11	-0.022845	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	-25.12	-0.030030	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	30	-12.27	-0.014668	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	40	-17.97	-0.021482	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	50	-19.70	-0.023551	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	-11.90	-0.014226	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	-9.58	-0.011452	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-10	-16.44	-0.019653	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	-12.39	-0.014812	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	14.10	0.016856	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	-21.50	-0.025702	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	30	-15.05	-0.017992	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	40	-11.12	-0.013293	±2.5	PASS

Band5	1.4MHz	16QAM	20525	6RB#0	NV	50	-10.33	-0.012349	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-30	-15.61	-0.018402	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-20	-14.23	-0.016775	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-10	-18.41	-0.021702	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	0	-12.92	-0.015230	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	10	-17.95	-0.021160	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	20	-18.31	-0.021584	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	30	-14.56	-0.017164	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	40	-24.15	-0.028469	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	50	-19.56	-0.023058	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-30	13.05	0.015384	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-20	-5.84	-0.006884	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-10	-12.33	-0.014535	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	0	-10.91	-0.012861	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	10	-9.03	-0.010645	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	20	-14.56	-0.017164	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	30	-15.62	-0.018413	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	40	-17.04	-0.020087	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	50	-19.54	-0.023034	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-30	5.64	0.006832	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-20	6.95	0.008419	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-10	8.88	0.010757	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	0	5.24	0.006348	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	10	2.88	0.003489	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	20	7.34	0.008892	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	30	5.98	0.007244	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	40	2.82	0.003416	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	50	4.01	0.004858	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-30	6.38	0.007729	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-20	33.70	0.040824	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-10	3.86	0.004676	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	0	4.72	0.005718	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	10	4.99	0.006045	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	20	4.05	0.004906	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	30	4.81	0.005827	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	40	5.06	0.006130	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	50	4.32	0.005233	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	3.95	0.004722	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	3.16	0.003778	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-10	4.58	0.005475	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	4.45	0.005320	±2.5	PASS

Band5	3MHz	QPSK	20525	15RB#0	NV	10	4.09	0.004889	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	5.41	0.006467	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	30	5.87	0.007017	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	40	4.09	0.004889	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	50	4.36	0.005212	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-30	4.25	0.005081	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	4.75	0.005678	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-10	3.55	0.004244	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	3.20	0.003825	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	4.15	0.004961	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	3.28	0.003921	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	30	3.55	0.004244	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	40	4.55	0.005439	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	50	2.59	0.003096	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-30	15.09	0.017805	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-20	12.13	0.014313	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-10	5.65	0.006667	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	0	-6.64	-0.007835	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	10	-5.62	-0.006631	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	20	10.20	0.012035	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	30	5.26	0.006206	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	40	4.65	0.005487	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	50	6.29	0.007422	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-30	6.29	0.007422	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-20	4.91	0.005794	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-10	8.51	0.010041	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	0	5.12	0.006041	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	10	5.51	0.006501	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	20	4.91	0.005794	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	30	9.76	0.011516	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	40	-8.31	-0.009805	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	50	5.01	0.005912	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-30	-2.78	-0.003364	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-20	-3.00	-0.003630	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-10	-1.42	-0.001718	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	0	2.85	0.003448	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	10	2.09	0.002529	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	20	1.99	0.002408	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	30	-2.57	-0.003109	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	40	-1.95	-0.002359	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	50	-1.65	-0.001996	±2.5	PASS

Band5	5MHz	16QAM	20425	25RB#0	NV	-30	-1.62	-0.001960	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-20	2.85	0.003448	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-10	1.60	0.001936	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	0	-2.63	-0.003182	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	10	1.77	0.002142	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	20	-2.46	-0.002976	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	30	-2.63	-0.003182	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	40	2.66	0.003218	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	50	-2.60	-0.003146	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	-1.19	-0.001423	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	2.45	0.002929	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-10	1.57	0.001877	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	1.87	0.002236	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	3.48	0.004160	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	3.05	0.003646	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	30	1.79	0.002140	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	40	1.37	0.001638	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	50	3.02	0.003610	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-30	3.09	0.003694	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	2.63	0.003144	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-10	3.33	0.003981	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	3.76	0.004495	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	4.18	0.004997	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	20	5.68	0.006790	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	30	3.88	0.004638	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	40	6.18	0.007388	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	50	5.85	0.006993	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-30	2.49	0.002942	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-20	2.06	0.002434	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-10	2.62	0.003095	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	0	2.15	0.002540	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	10	2.43	0.002871	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	20	2.95	0.003485	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	30	2.63	0.003107	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	40	2.69	0.003178	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	50	4.51	0.005328	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-30	4.16	0.004914	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-20	3.96	0.004678	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-10	4.76	0.005623	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	0	4.25	0.005021	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	10	4.38	0.005174	±2.5	PASS

Band5	5MHz	16QAM	20625	25RB#0	NV	20	5.01	0.005918	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	30	3.88	0.004584	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	40	3.38	0.003993	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	50	3.81	0.004501	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-3.66	-0.004415	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-1.99	-0.002400	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-2.09	-0.002521	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-2.45	-0.002955	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-2.37	-0.002859	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	1.52	0.001834	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-2.93	-0.003534	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	2.16	0.002606	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-2.53	-0.003052	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	2.59	0.003096	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	2.25	0.002690	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	3.93	0.004698	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	2.23	0.002666	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	1.44	0.001721	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	1.44	0.001721	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-1.67	-0.001996	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	3.10	0.003706	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-1.96	-0.002322	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	1.47	0.001742	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	3.60	0.004265	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-1.99	-0.002358	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	2.69	0.003187	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-1.67	-0.001979	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	3.89	0.004609	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-1.72	-0.002038	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	1.96	0.002322	±2.5	PASS