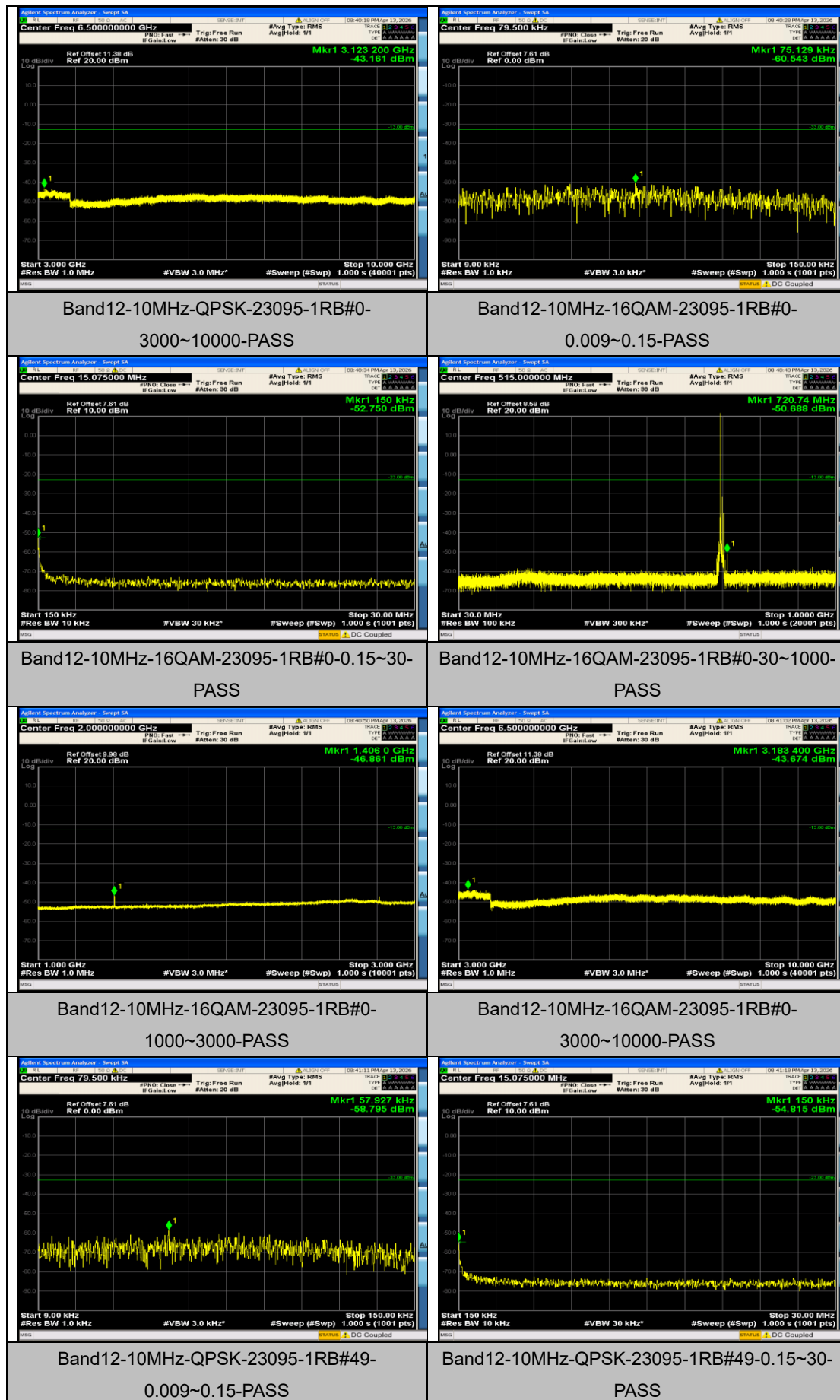
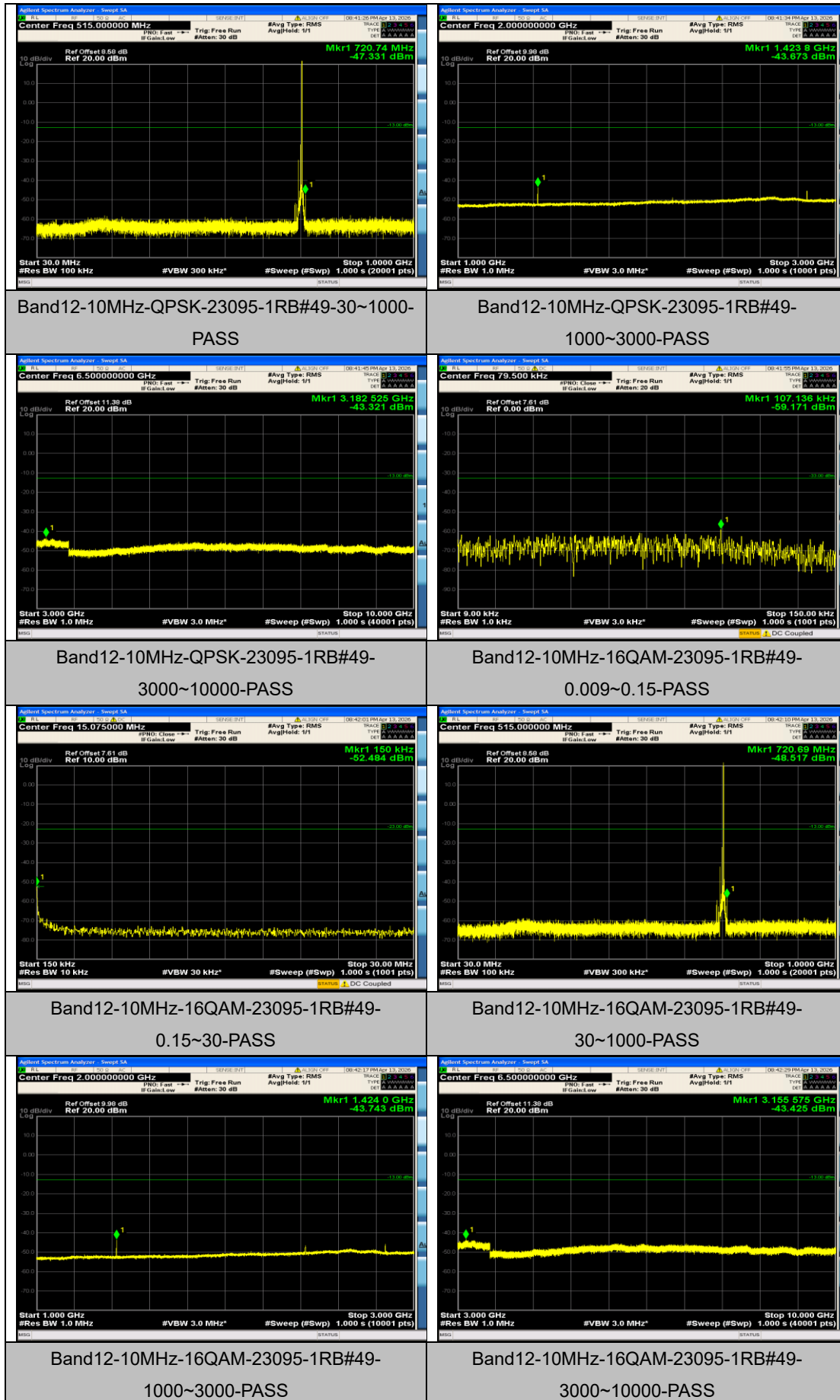
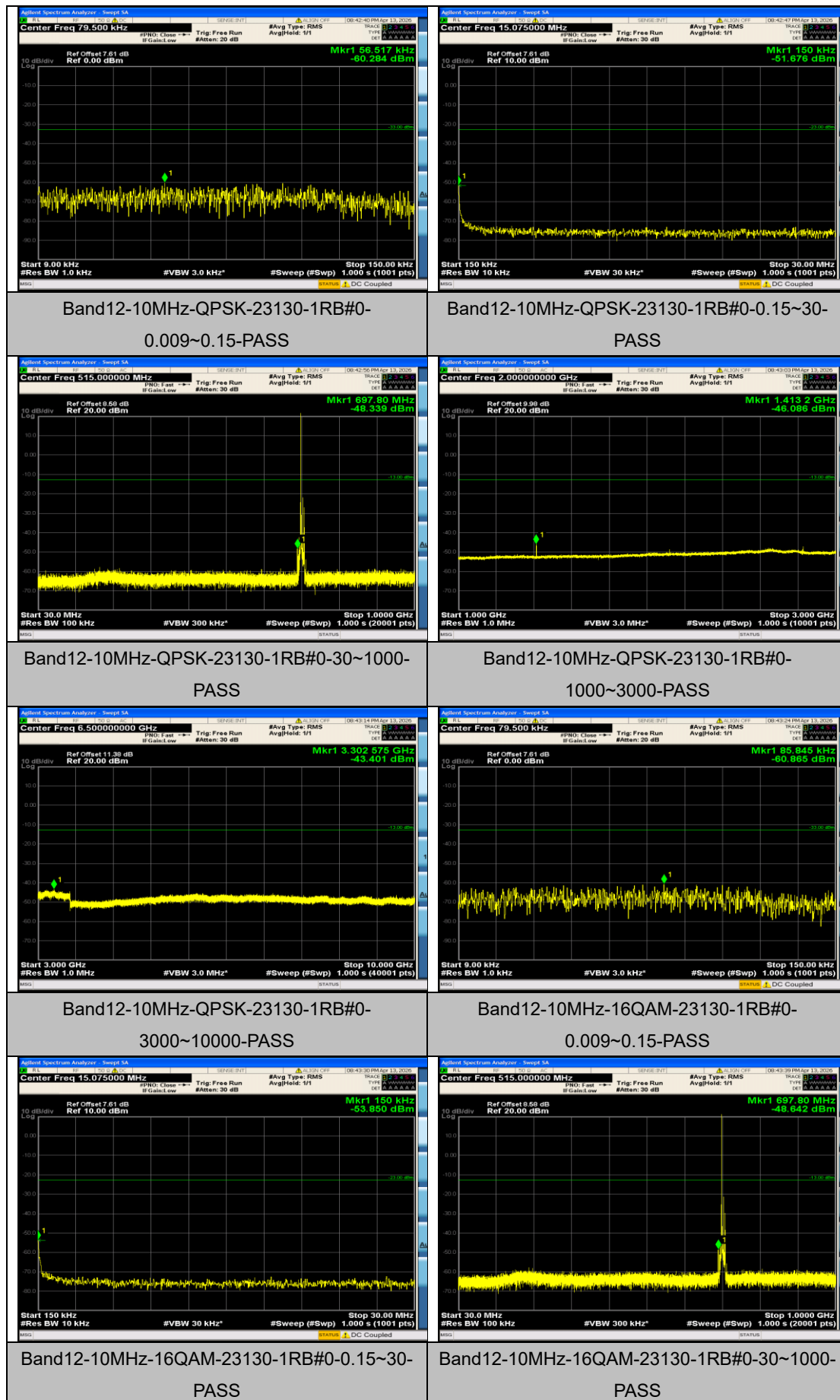
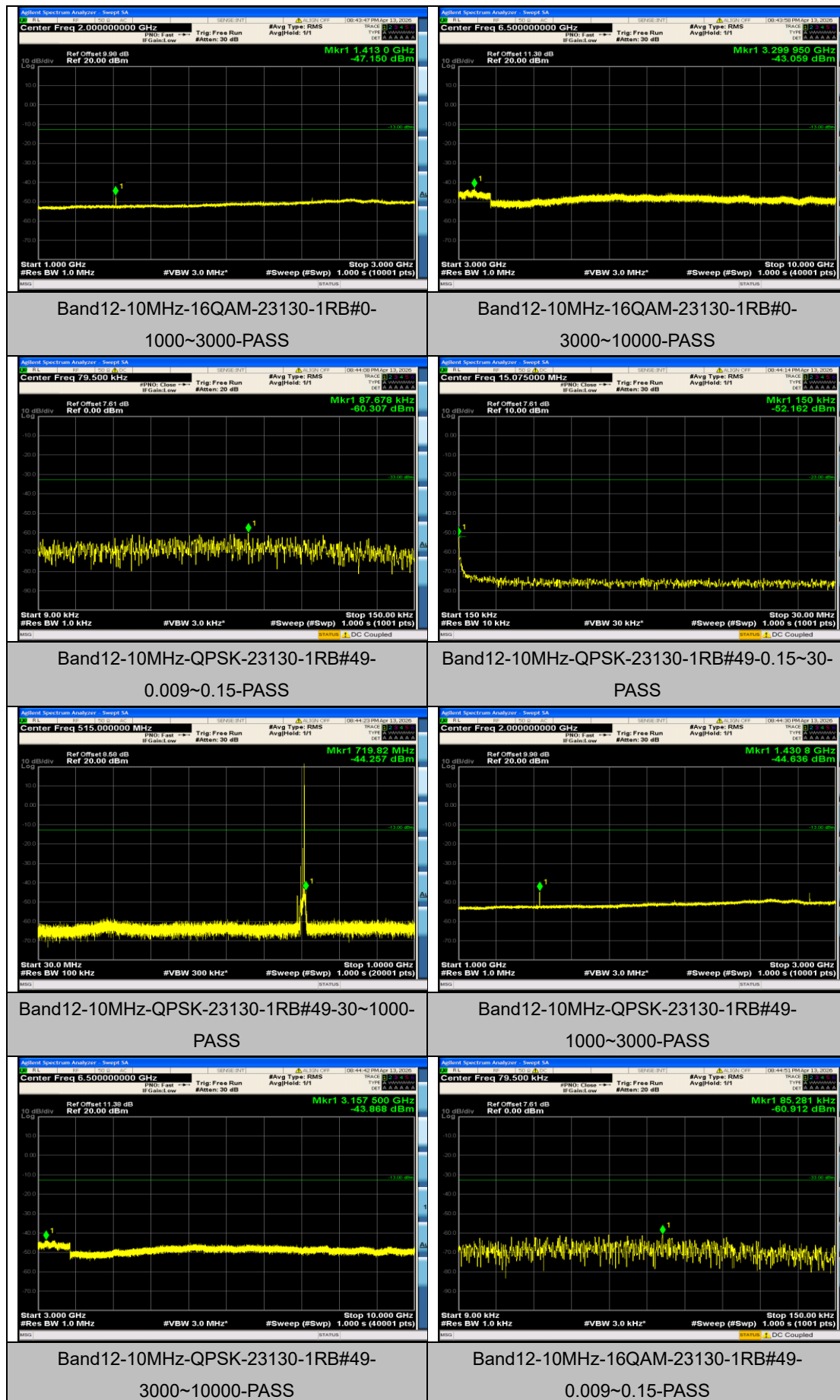
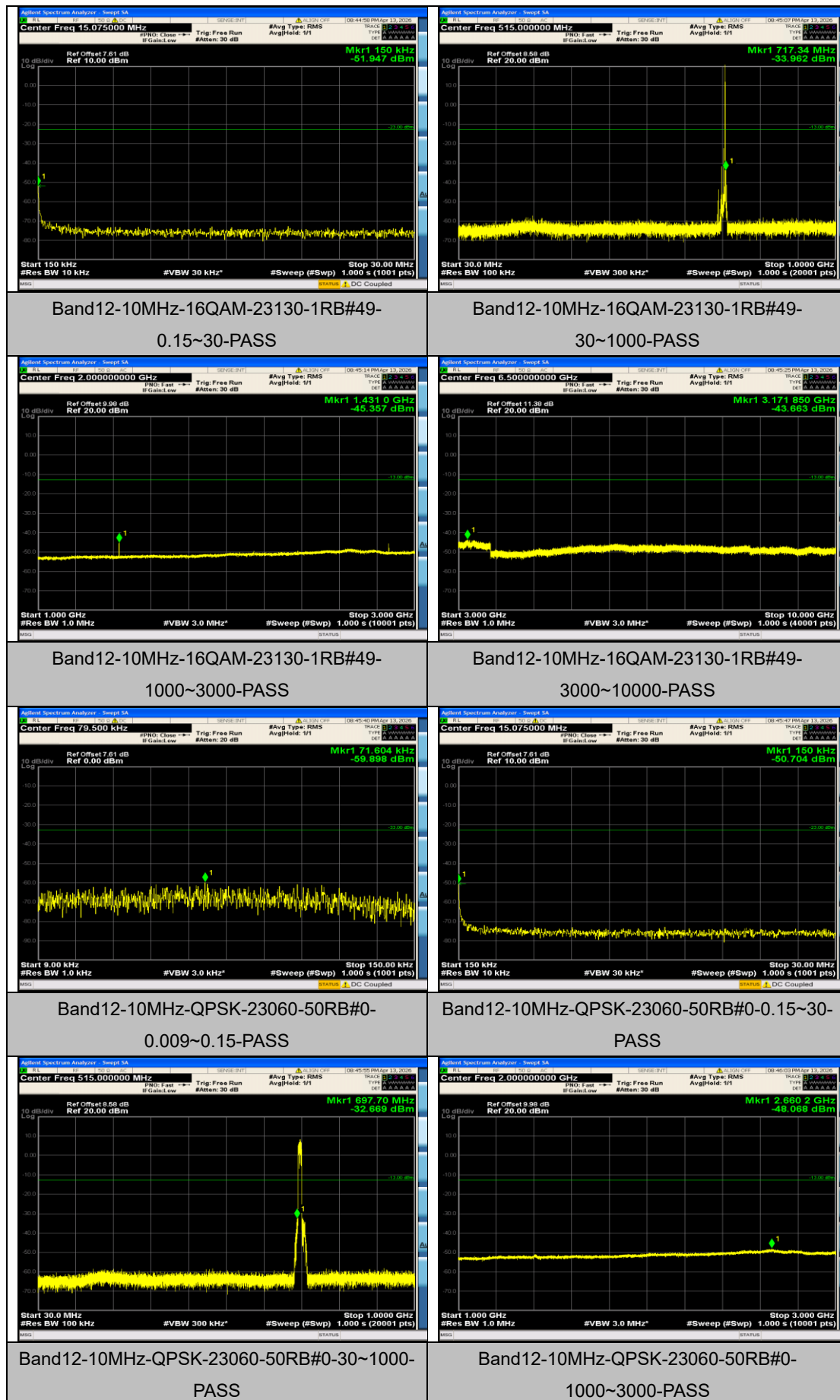


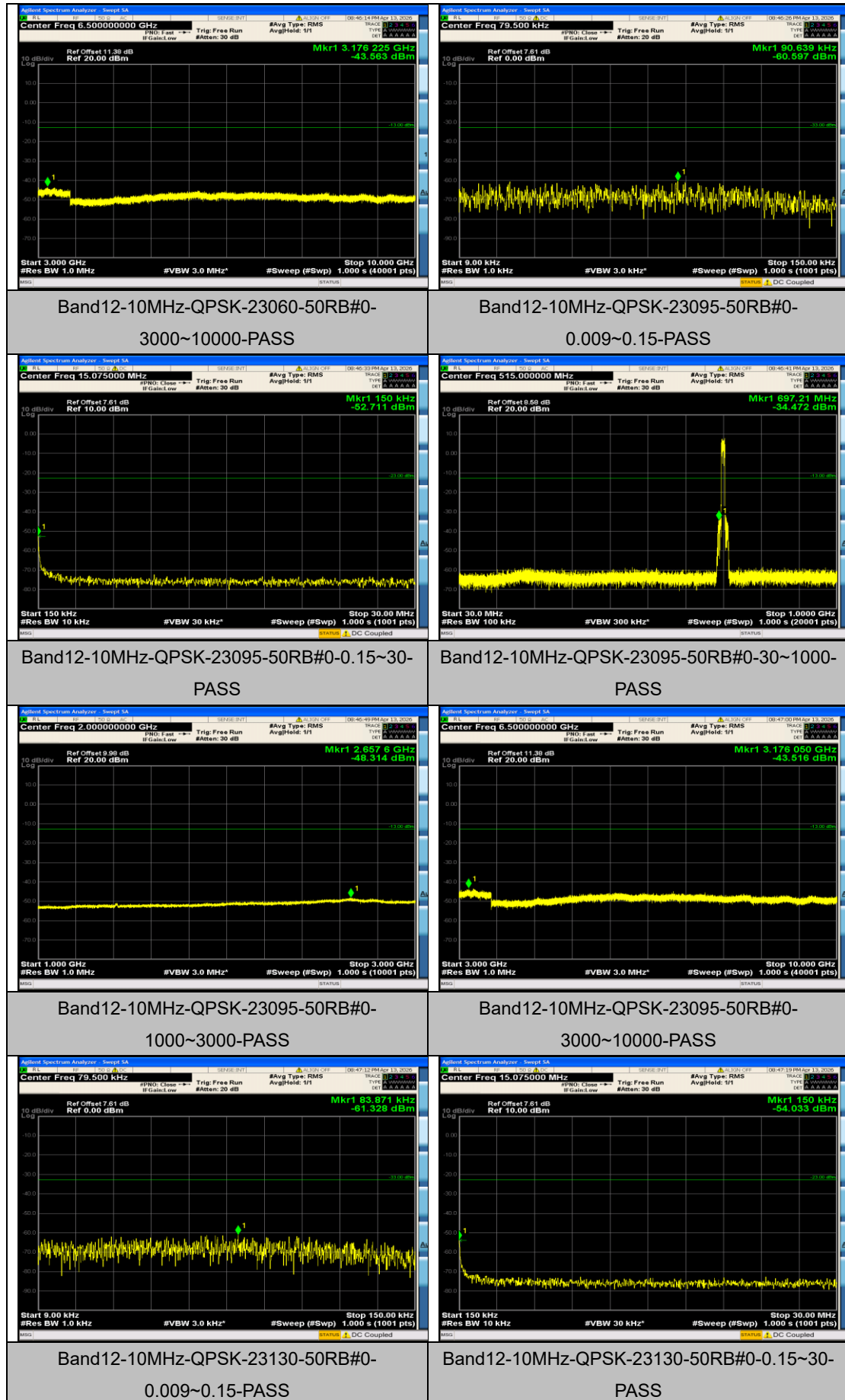


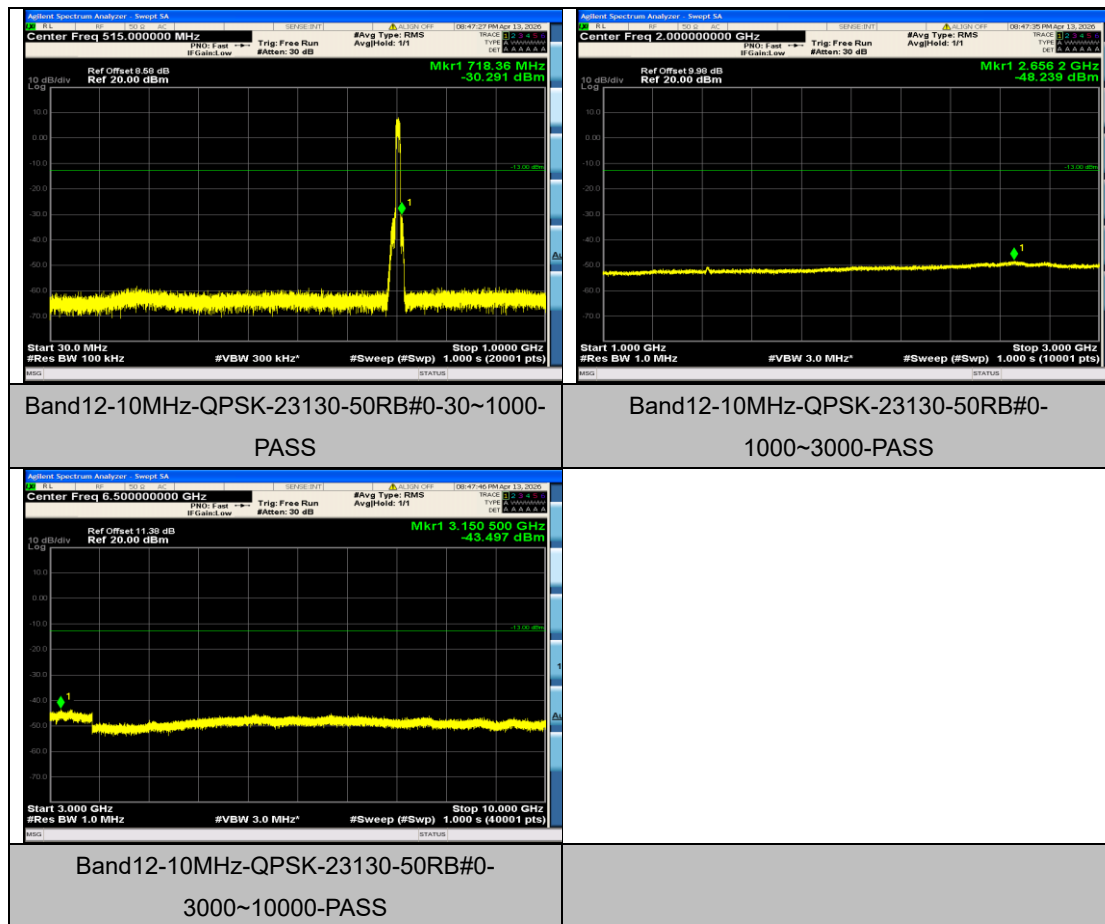












Appendix E: Frequency Stability

Test Result

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	NV	-30	-6.09	-0.008704	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	-20	-3.52	-0.005031	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	-10	-3.20	-0.004573	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	0	-2.75	-0.003930	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	10	-3.46	-0.004945	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	20	-2.07	-0.002958	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	30	-3.35	-0.004788	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	40	-4.51	-0.006446	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	50	-3.19	-0.004559	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	-30	-5.22	-0.007460	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	-20	-2.86	-0.004087	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	-10	1.63	0.002330	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	0	-2.66	-0.003802	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	10	3.03	0.004330	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	20	-3.28	-0.004688	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	30	-2.25	-0.003216	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	40	-2.55	-0.003644	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	50	-2.69	-0.003845	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	-30	-4.98	-0.007039	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	-20	-5.72	-0.008085	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	-10	-7.07	-0.009993	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	0	-3.26	-0.004608	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	10	-3.40	-0.004806	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	20	-5.08	-0.007180	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	30	-2.37	-0.003350	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	40	-2.68	-0.003788	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	50	-4.58	-0.006473	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	-30	-2.62	-0.003703	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	-20	-5.05	-0.007138	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	-10	-2.37	-0.003350	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	0	-2.20	-0.003110	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	10	-3.03	-0.004283	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	20	-3.25	-0.004594	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	30	-3.69	-0.005216	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	40	-3.33	-0.004707	±2.5	PASS

Band12	1.4MHz	16QAM	23095	6RB#0	NV	50	-4.01	-0.005668	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	-30	-13.70	-0.019153	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	-20	-14.73	-0.020593	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	-10	-14.22	-0.019880	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	0	-13.33	-0.018636	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	10	-9.11	-0.012736	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	20	-6.47	-0.009045	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	30	-5.51	-0.007703	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	40	-3.18	-0.004446	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	50	3.46	0.004837	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	-30	-5.26	-0.007354	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	-20	-2.47	-0.003453	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	-10	-1.59	-0.002223	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	0	2.33	0.003257	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	10	-2.49	-0.003481	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	20	-2.92	-0.004082	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	30	-3.95	-0.005522	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	40	-4.81	-0.006724	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	50	-3.71	-0.005187	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-30	2.37	0.003383	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-20	-1.52	-0.002170	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-10	2.90	0.004140	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	0	1.90	0.002712	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	10	2.52	0.003597	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	20	2.09	0.002984	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	30	3.09	0.004411	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	40	3.45	0.004925	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	50	1.57	0.002241	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-30	2.10	0.002998	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-20	2.06	0.002941	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-10	2.95	0.004211	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	0	4.42	0.006310	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	10	4.22	0.006024	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	20	2.73	0.003897	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	30	1.89	0.002698	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	40	2.53	0.003612	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	50	3.22	0.004597	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-30	3.68	0.005201	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-20	3.98	0.005625	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-10	2.13	0.003011	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	0	2.32	0.003279	±2.5	PASS

Band12	3MHz	QPSK	23095	15RB#0	NV	10	3.55	0.005018	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	20	3.03	0.004283	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	30	2.03	0.002869	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	40	4.19	0.005922	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	50	3.66	0.005173	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-30	2.80	0.003958	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-20	3.42	0.004834	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-10	5.14	0.007265	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	0	2.95	0.004170	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	10	3.98	0.005625	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	20	3.92	0.005541	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	30	3.66	0.005173	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	40	4.02	0.005682	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	50	1.75	0.002473	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-30	6.45	0.009027	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-20	4.02	0.005626	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-10	4.02	0.005626	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	0	3.33	0.004661	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	10	4.31	0.006032	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	20	4.73	0.006620	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	30	3.52	0.004927	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	40	4.51	0.006312	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	50	3.66	0.005122	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-30	3.33	0.004661	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-20	4.38	0.006130	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-10	3.96	0.005542	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	0	4.58	0.006410	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	10	3.18	0.004451	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	20	3.88	0.005430	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	30	3.29	0.004605	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	40	4.08	0.005710	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	50	3.96	0.005542	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-30	-2.92	-0.004163	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-20	-1.43	-0.002038	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-10	-2.19	-0.003122	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	0	2.52	0.003592	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	10	-1.44	-0.002053	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	20	2.00	0.002851	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	30	1.40	0.001996	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	40	1.85	0.002637	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	50	-2.09	-0.002979	±2.5	PASS

Band12	5MHz	16QAM	23035	25RB#0	NV	-30	1.87	0.002666	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-20	1.56	0.002224	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-10	2.89	0.004120	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	0	2.00	0.002851	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	10	3.50	0.004989	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	20	1.59	0.002267	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	30	2.82	0.004020	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	40	2.19	0.003122	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	50	3.46	0.004932	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-30	1.92	0.002714	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-20	1.72	0.002431	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-10	-1.69	-0.002389	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	0	0.87	0.001230	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	10	2.12	0.002996	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	20	1.75	0.002473	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	30	3.08	0.004353	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	40	2.60	0.003675	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	50	3.78	0.005343	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-30	2.13	0.003011	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-20	3.12	0.004410	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-10	3.89	0.005498	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	0	3.93	0.005555	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	10	4.05	0.005724	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	20	3.75	0.005300	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	30	3.05	0.004311	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	40	4.32	0.006106	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	50	3.92	0.005541	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-30	-3.03	-0.004247	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-20	-3.09	-0.004331	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-10	2.15	0.003013	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	0	-2.42	-0.003392	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	10	2.25	0.003153	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	20	-2.33	-0.003266	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	30	2.88	0.004036	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	40	1.10	0.001542	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	50	2.02	0.002831	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-30	-1.60	-0.002242	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-20	-2.16	-0.003027	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-10	2.37	0.003322	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	0	1.67	0.002341	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	10	2.13	0.002985	±2.5	PASS

Band12	5MHz	16QAM	23155	25RB#0	NV	20	1.36	0.001906	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	30	3.29	0.004611	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	40	3.43	0.004807	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	50	3.96	0.005550	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	1.85	0.002628	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-1.65	-0.002344	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	0.79	0.001122	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	2.66	0.003778	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-2.66	-0.003778	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	3.05	0.004332	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	1.57	0.002230	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-2.22	-0.003153	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	1.79	0.002543	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	2.56	0.003618	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	2.15	0.003039	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	1.89	0.002671	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	2.13	0.003011	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-1.50	-0.002120	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-1.63	-0.002304	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	2.40	0.003392	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	1.42	0.002007	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-2.65	-0.003746	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-2.49	-0.003502	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-1.65	-0.002321	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-1.34	-0.001885	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-2.73	-0.003840	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-2.05	-0.002883	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-2.19	-0.003080	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	1.24	0.001744	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-1.82	-0.002560	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-1.99	-0.002799	±2.5	PASS