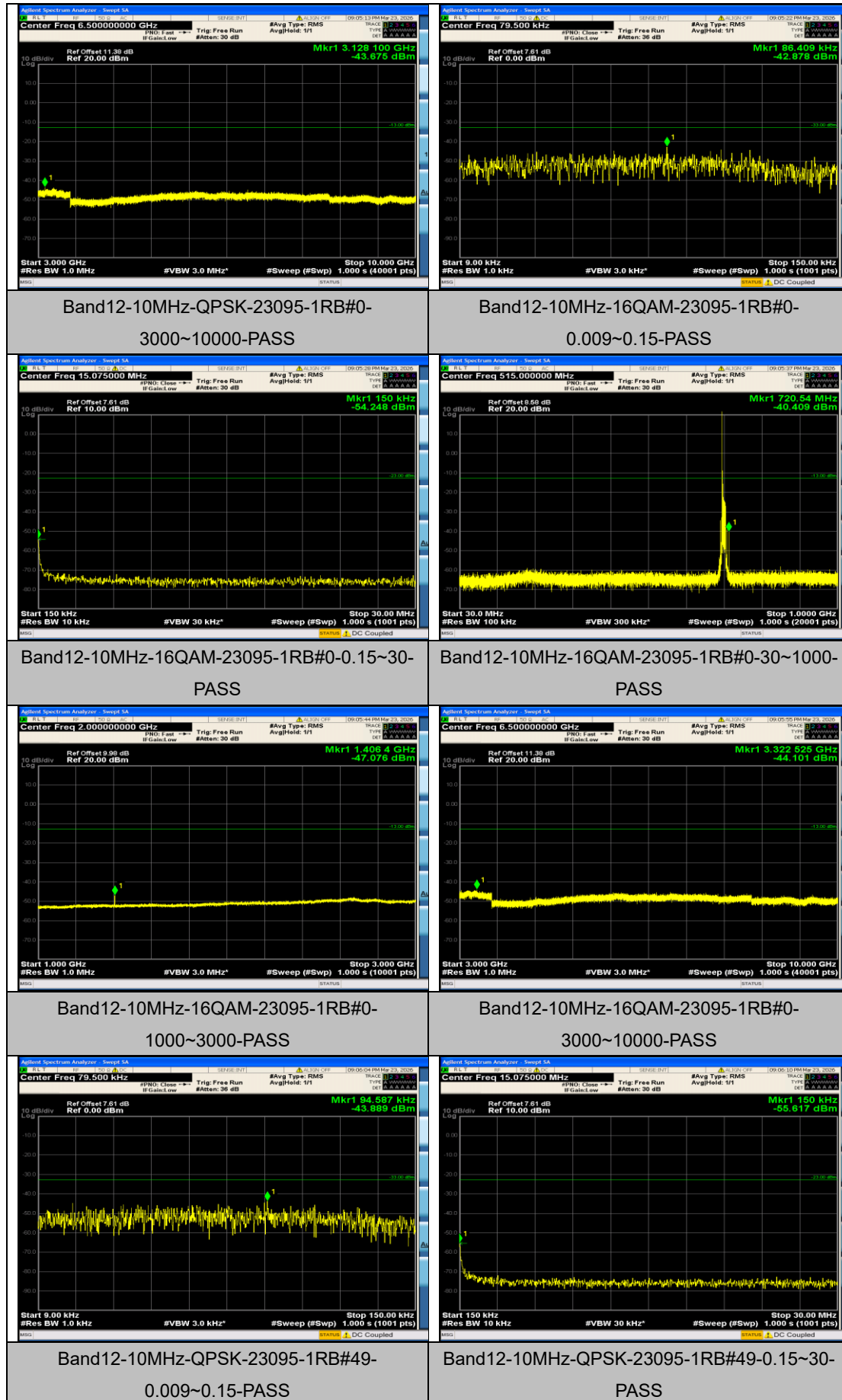
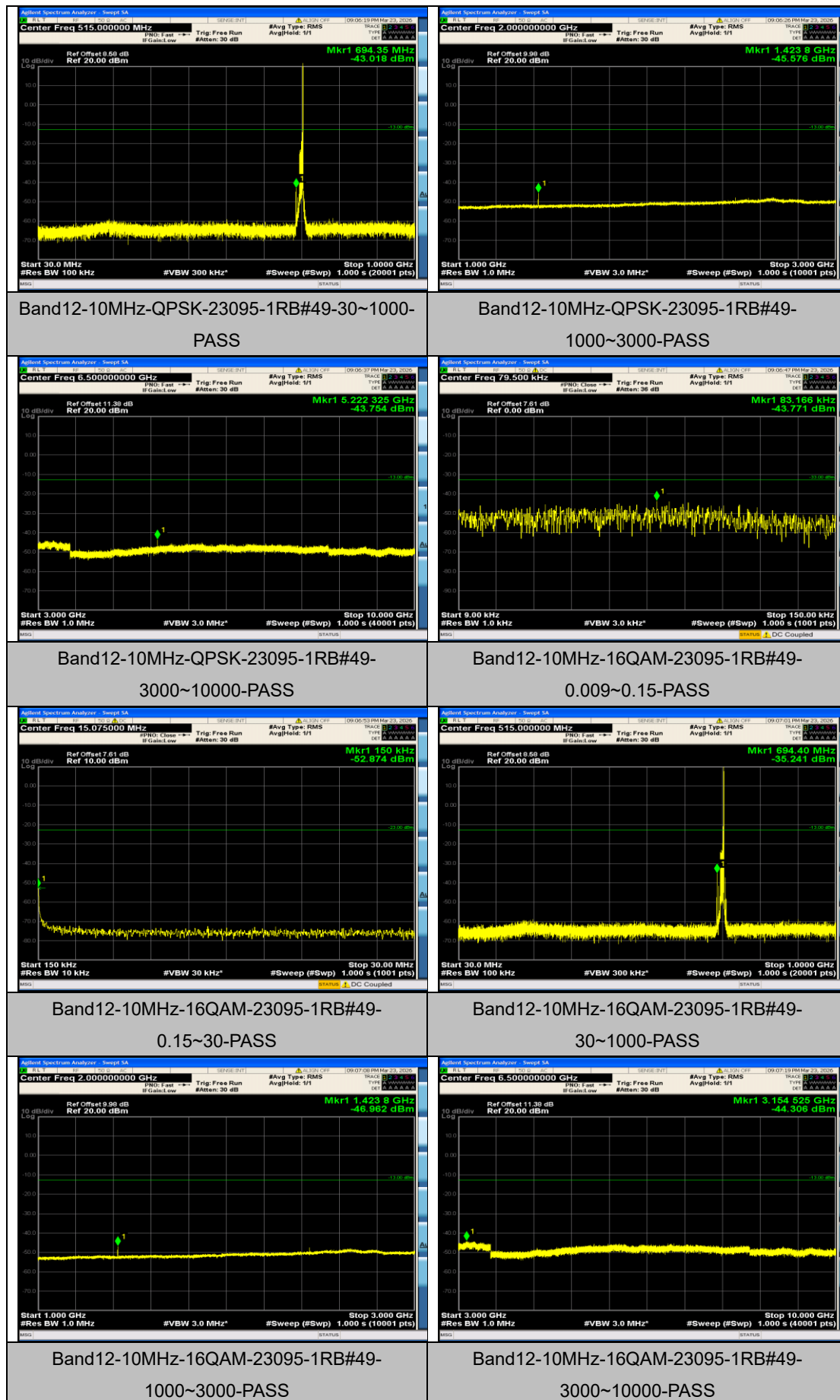
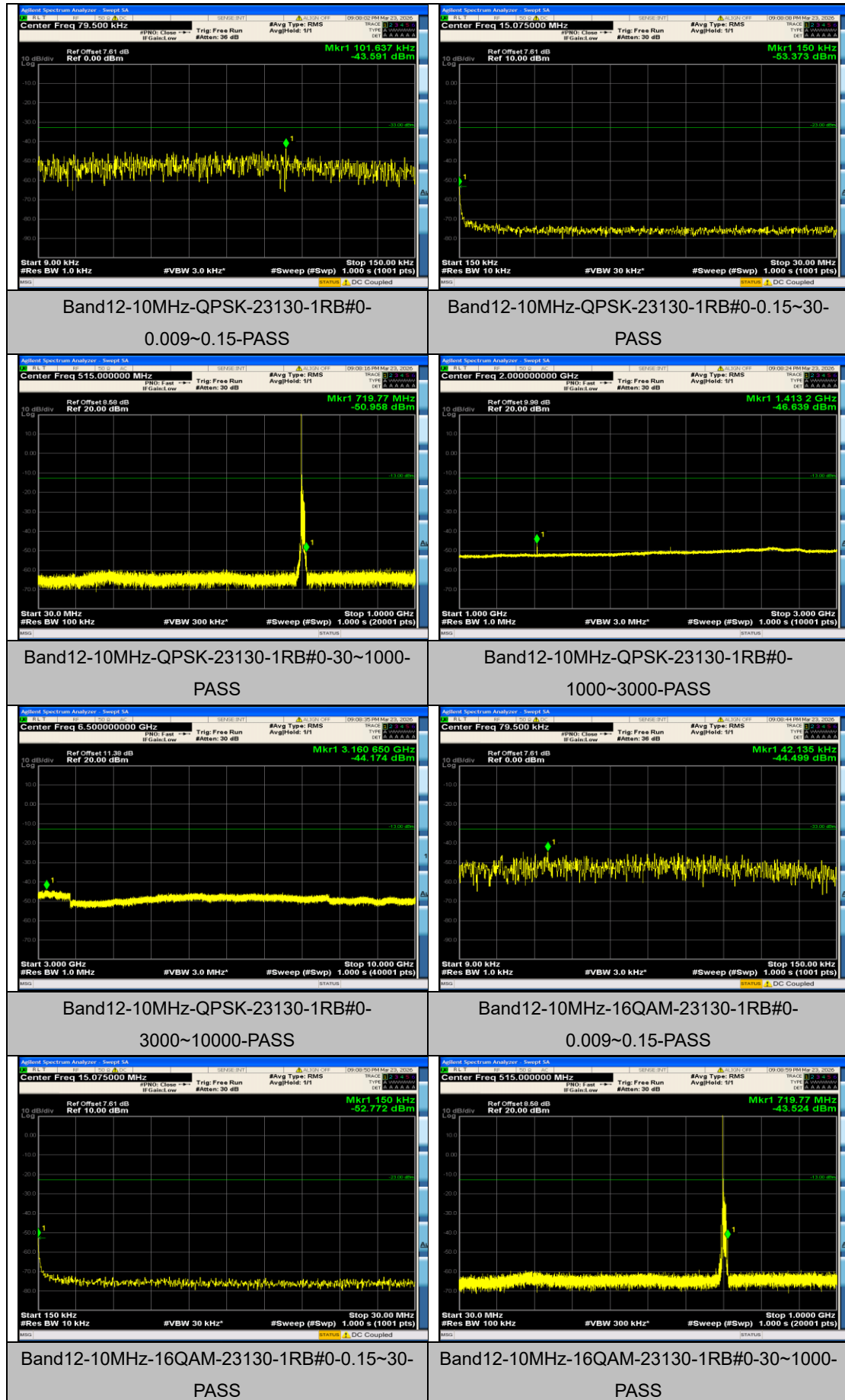
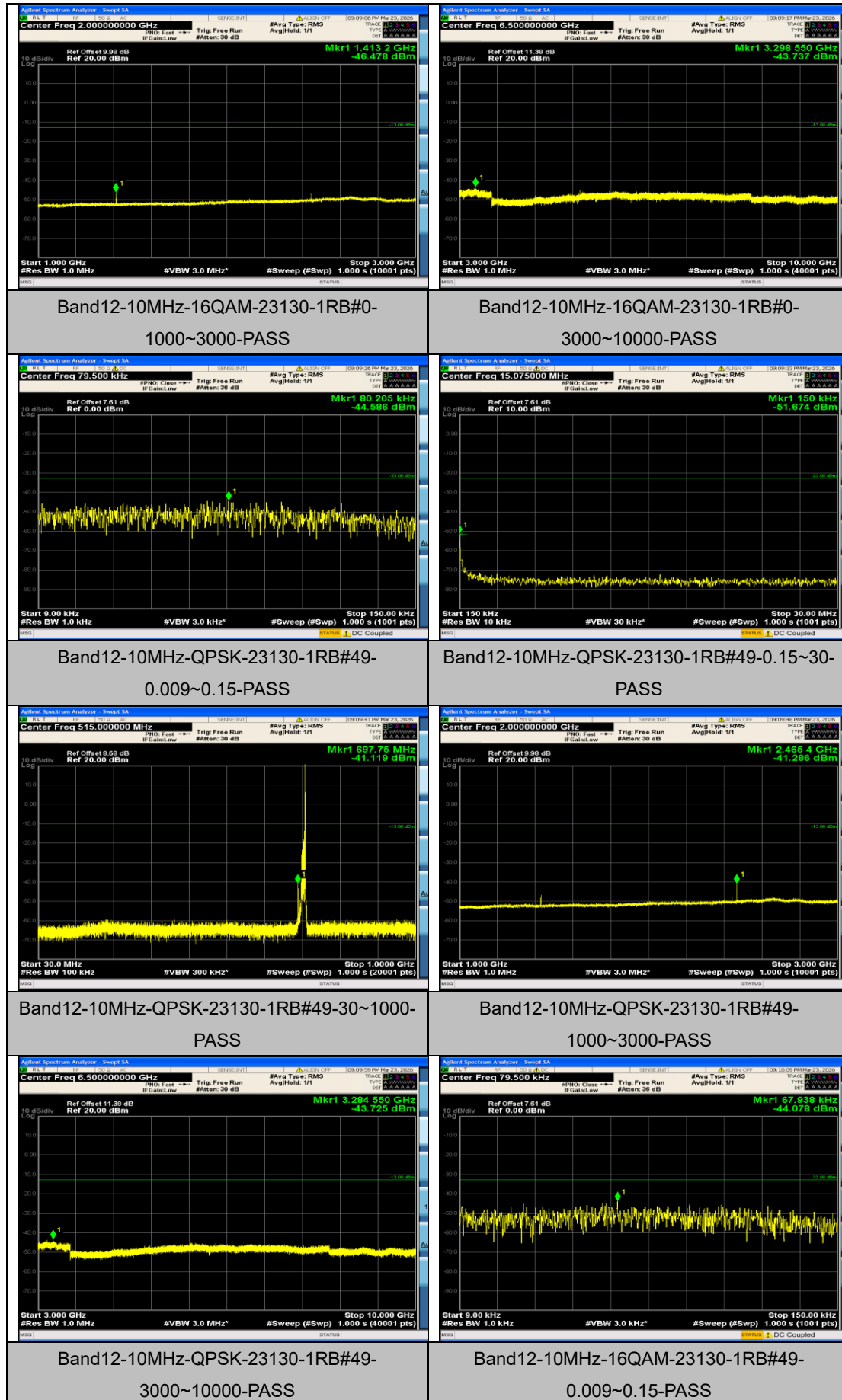
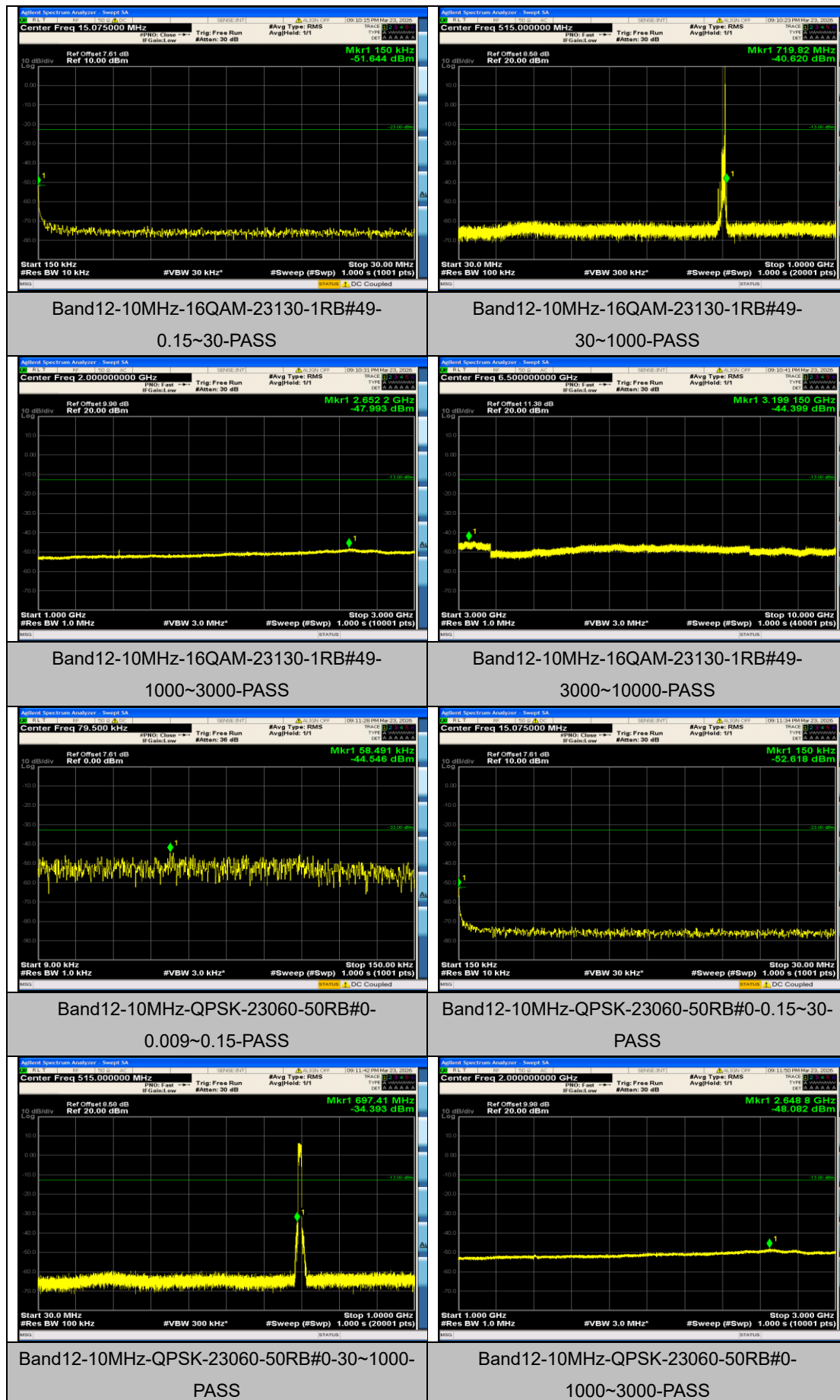


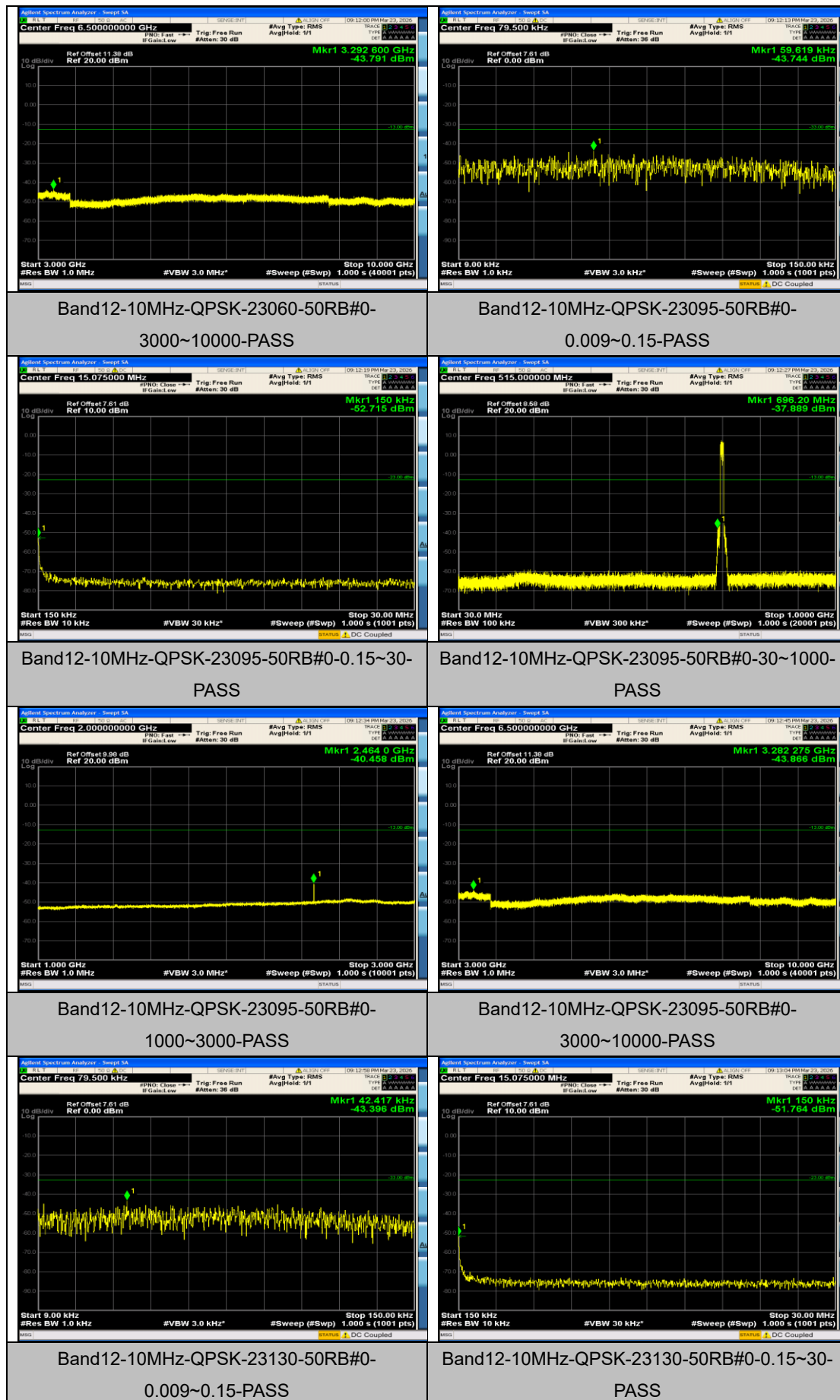


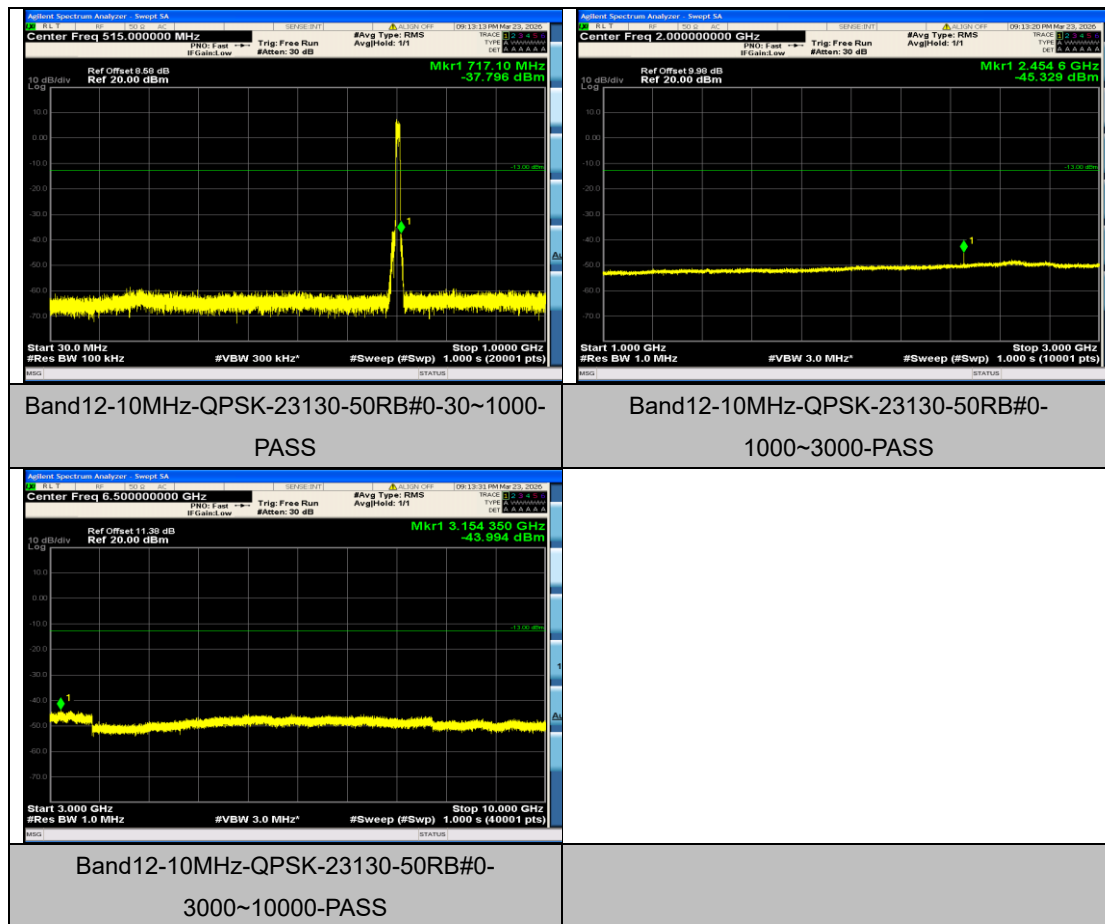












Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	Temperature						
				RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	NV	-30	-2.90	-0.004145	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	-20	-2.89	-0.004130	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	-10	-2.57	-0.003673	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	0	-3.89	-0.005560	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	10	-4.23	-0.006045	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	20	-3.19	-0.004559	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	30	-4.12	-0.005888	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	40	-2.63	-0.003759	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	50	-2.95	-0.004216	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	-30	-8.28	-0.011834	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	-20	-8.88	-0.012691	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	-10	-3.72	-0.005317	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	0	-8.60	-0.012291	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	10	-7.71	-0.011019	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	20	-4.25	-0.006074	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	30	-8.05	-0.011505	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	40	-6.87	-0.009818	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	50	-8.94	-0.012777	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	-30	1.89	0.002671	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	-20	-1.30	-0.001837	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	-10	-1.96	-0.002770	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	0	-1.95	-0.002756	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	10	-1.93	-0.002728	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	20	1.72	0.002431	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	30	-2.60	-0.003675	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	40	-1.65	-0.002332	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	50	-2.16	-0.003053	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	-30	-7.62	-0.010770	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	-20	-8.34	-0.011788	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	-10	-3.76	-0.005314	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	0	-3.35	-0.004735	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	10	-8.35	-0.011802	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	20	-6.79	-0.009597	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	30	-6.02	-0.008509	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	40	-4.55	-0.006431	±2.5	PASS

Band12	1.4MHz	16QAM	23095	6RB#0	NV	50	-5.49	-0.007760	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	-30	-2.62	-0.003663	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	-20	2.46	0.003439	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	-10	-3.46	-0.004837	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	0	-3.05	-0.004264	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	10	-2.30	-0.003215	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	20	-2.99	-0.004180	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	30	-1.60	-0.002237	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	40	-2.49	-0.003481	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	50	-2.75	-0.003845	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	-30	-7.81	-0.010918	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	-20	-5.01	-0.007004	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	-10	-7.95	-0.011114	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	0	-5.87	-0.008206	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	10	-4.48	-0.006263	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	20	-5.85	-0.008178	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	30	-7.25	-0.010136	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	40	-4.75	-0.006641	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	50	-7.20	-0.010066	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-30	-2.57	-0.003669	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-20	-1.87	-0.002670	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-10	2.25	0.003212	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	0	-2.10	-0.002998	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	10	-2.96	-0.004226	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	20	-1.95	-0.002784	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	30	2.90	0.004140	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	40	2.40	0.003426	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	50	-3.89	-0.005553	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-30	-7.82	-0.011163	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-20	-8.37	-0.011949	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-10	-9.53	-0.013605	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	0	-7.58	-0.010821	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	10	-8.14	-0.011620	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	20	-8.37	-0.011949	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	30	-9.71	-0.013862	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	40	-8.68	-0.012391	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	50	-7.88	-0.011249	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-30	-1.77	-0.002502	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-20	1.75	0.002473	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-10	2.45	0.003463	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	0	-1.54	-0.002177	±2.5	PASS

Band12	3MHz	QPSK	23095	15RB#0	NV	10	-1.82	-0.002572	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	20	-1.86	-0.002629	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	30	4.65	0.006572	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	40	-2.63	-0.003717	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	50	-2.82	-0.003986	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-30	-5.66	-0.008000	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-20	-9.88	-0.013965	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-10	-3.15	-0.004452	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	0	-8.96	-0.012664	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	10	-8.35	-0.011802	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	20	-3.36	-0.004749	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	30	-5.91	-0.008353	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	40	-8.43	-0.011915	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	50	-8.24	-0.011647	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-30	2.82	0.003947	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-20	1.73	0.002421	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-10	-3.12	-0.004367	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	0	-2.23	-0.003121	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	10	6.15	0.008607	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	20	-3.78	-0.005290	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	30	-3.65	-0.005108	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	40	-2.82	-0.003947	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	50	-2.52	-0.003527	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-30	-8.53	-0.011938	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-20	-6.98	-0.009769	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-10	-3.75	-0.005248	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	0	-7.27	-0.010175	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	10	-8.96	-0.012540	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	20	-3.72	-0.005206	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	30	-8.25	-0.011547	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	40	-3.76	-0.005262	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	50	-5.09	-0.007124	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-30	1.82	0.002594	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-20	-3.23	-0.004604	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-10	-2.47	-0.003521	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	0	-6.87	-0.009793	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	10	-3.20	-0.004562	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	20	2.06	0.002937	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	30	-6.57	-0.009366	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	40	-2.70	-0.003849	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	50	-3.66	-0.005217	±2.5	PASS

Band12	5MHz	16QAM	23035	25RB#0	NV	-30	-9.06	-0.012915	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-20	-9.30	-0.013257	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-10	-8.30	-0.011832	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	0	-8.67	-0.012359	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	10	-26.99	-0.038475	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	20	-8.28	-0.011803	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	30	-7.15	-0.010192	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	40	-7.68	-0.010948	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	50	-7.48	-0.010663	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-30	2.02	0.002855	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-20	-2.72	-0.003845	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-10	2.13	0.003011	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	0	1.93	0.002728	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	10	2.72	0.003845	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	20	3.39	0.004792	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	30	-2.59	-0.003661	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	40	-1.43	-0.002021	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	50	2.06	0.002912	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-30	-8.28	-0.011703	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-20	-7.55	-0.010671	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-10	-9.93	-0.014035	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	0	-7.30	-0.010318	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	10	-8.10	-0.011449	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	20	-7.38	-0.010431	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	30	-6.92	-0.009781	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	40	-6.08	-0.008594	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	50	-8.64	-0.012212	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-30	-3.26	-0.004569	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-20	-3.56	-0.004989	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-10	-4.18	-0.005858	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	0	3.66	0.005130	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	10	-2.50	-0.003504	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	20	-3.73	-0.005228	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	30	-1.97	-0.002761	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	40	-3.68	-0.005158	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	50	-3.03	-0.004247	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-30	-7.71	-0.010806	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-20	-5.05	-0.007078	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-10	-7.77	-0.010890	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	0	-5.88	-0.008241	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	10	-7.48	-0.010484	±2.5	PASS

Band12	5MHz	16QAM	23155	25RB#0	NV	20	-5.85	-0.008199	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	30	-7.62	-0.010680	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	40	-5.04	-0.007064	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	50	-7.38	-0.010343	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	-2.53	-0.003594	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	2.23	0.003168	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-1.53	-0.002173	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-3.53	-0.005014	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-2.22	-0.003153	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-4.33	-0.006151	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-3.43	-0.004872	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-2.50	-0.003551	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	-1.66	-0.002358	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	2.32	0.003279	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	2.89	0.004085	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	2.63	0.003717	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-1.82	-0.002572	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-2.85	-0.004028	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-2.03	-0.002869	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-2.30	-0.003251	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-3.62	-0.005117	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-2.79	-0.003943	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-4.61	-0.006484	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-2.33	-0.003277	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-2.79	-0.003924	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-2.23	-0.003136	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-3.82	-0.005373	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-2.53	-0.003558	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-5.05	-0.007103	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-3.08	-0.004332	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-5.95	-0.008368	±2.5	PASS