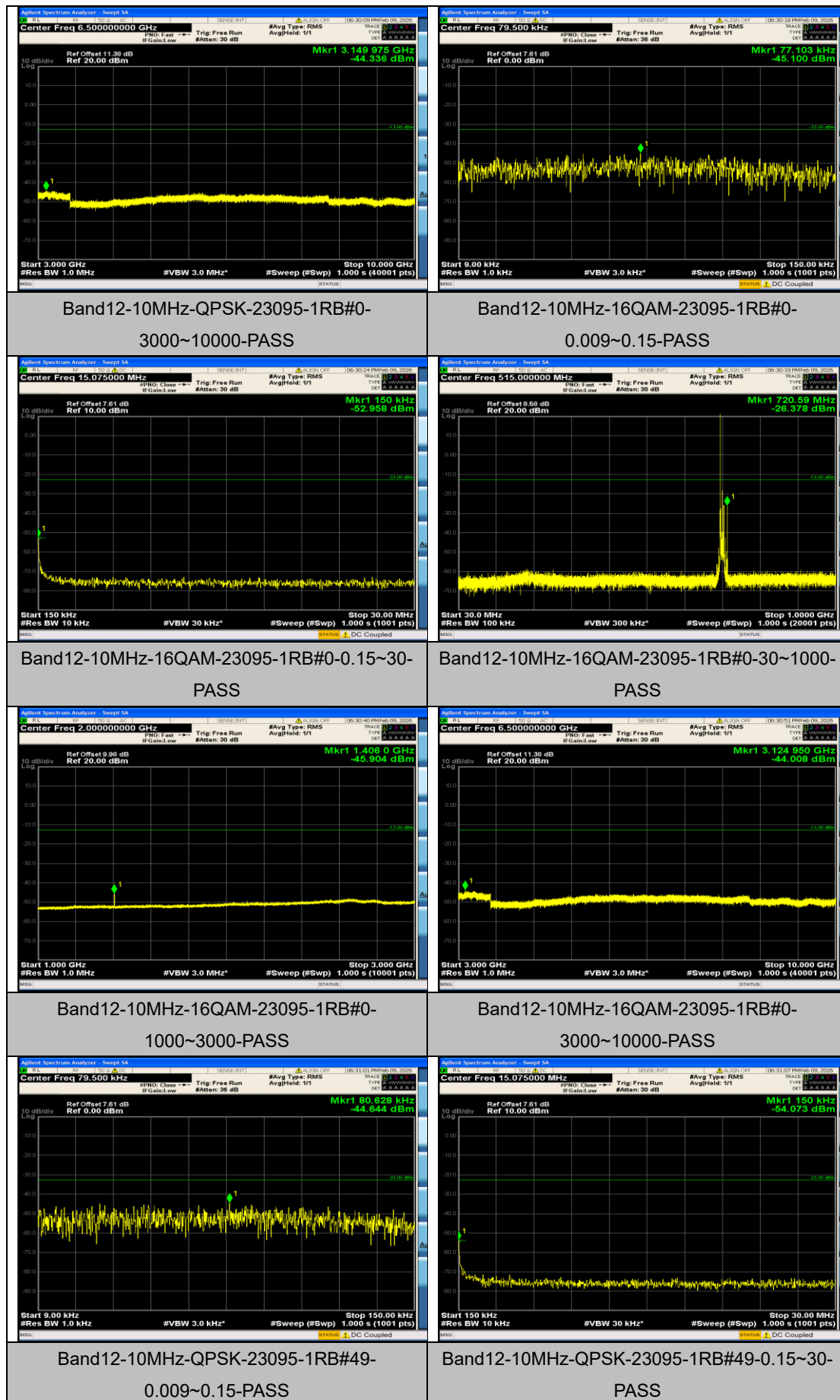
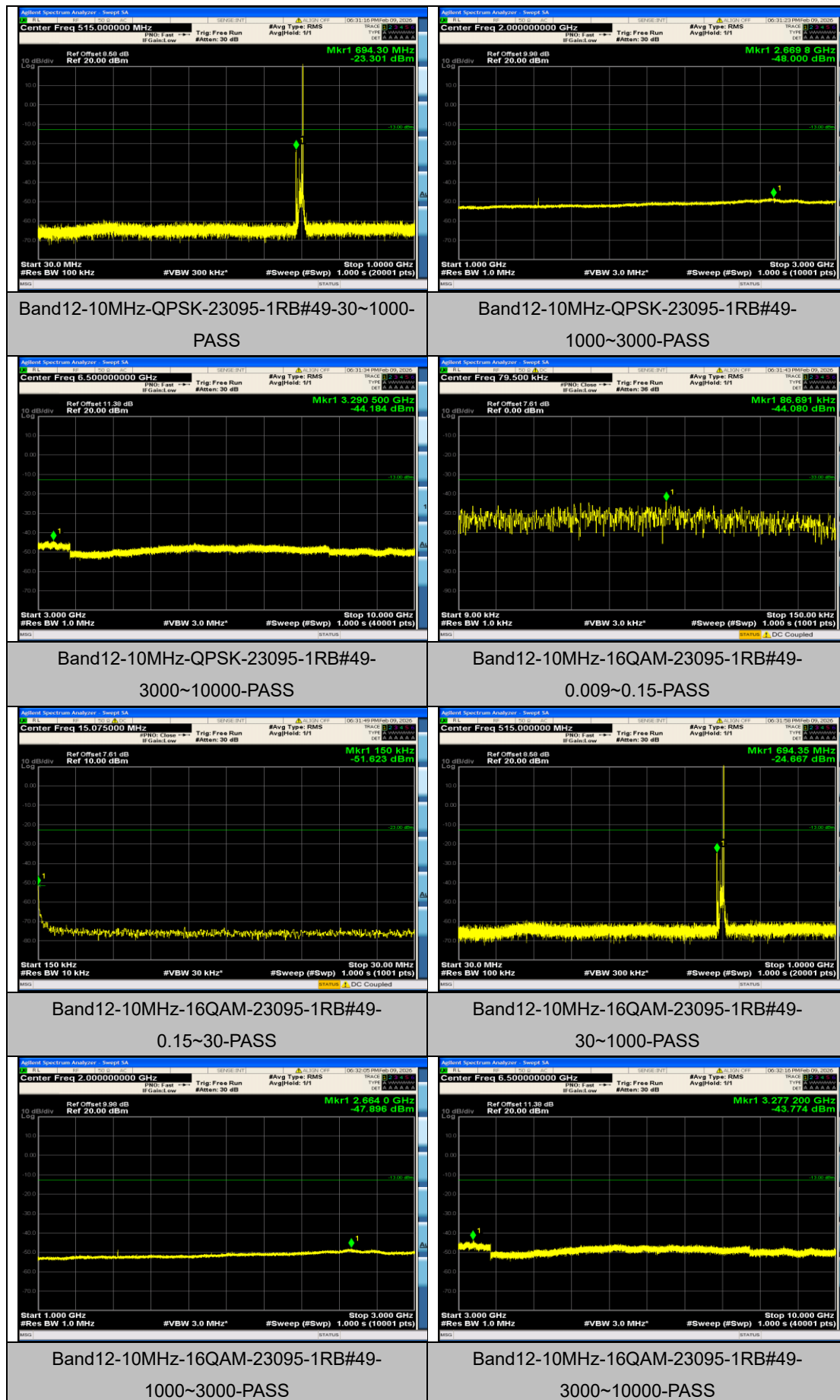
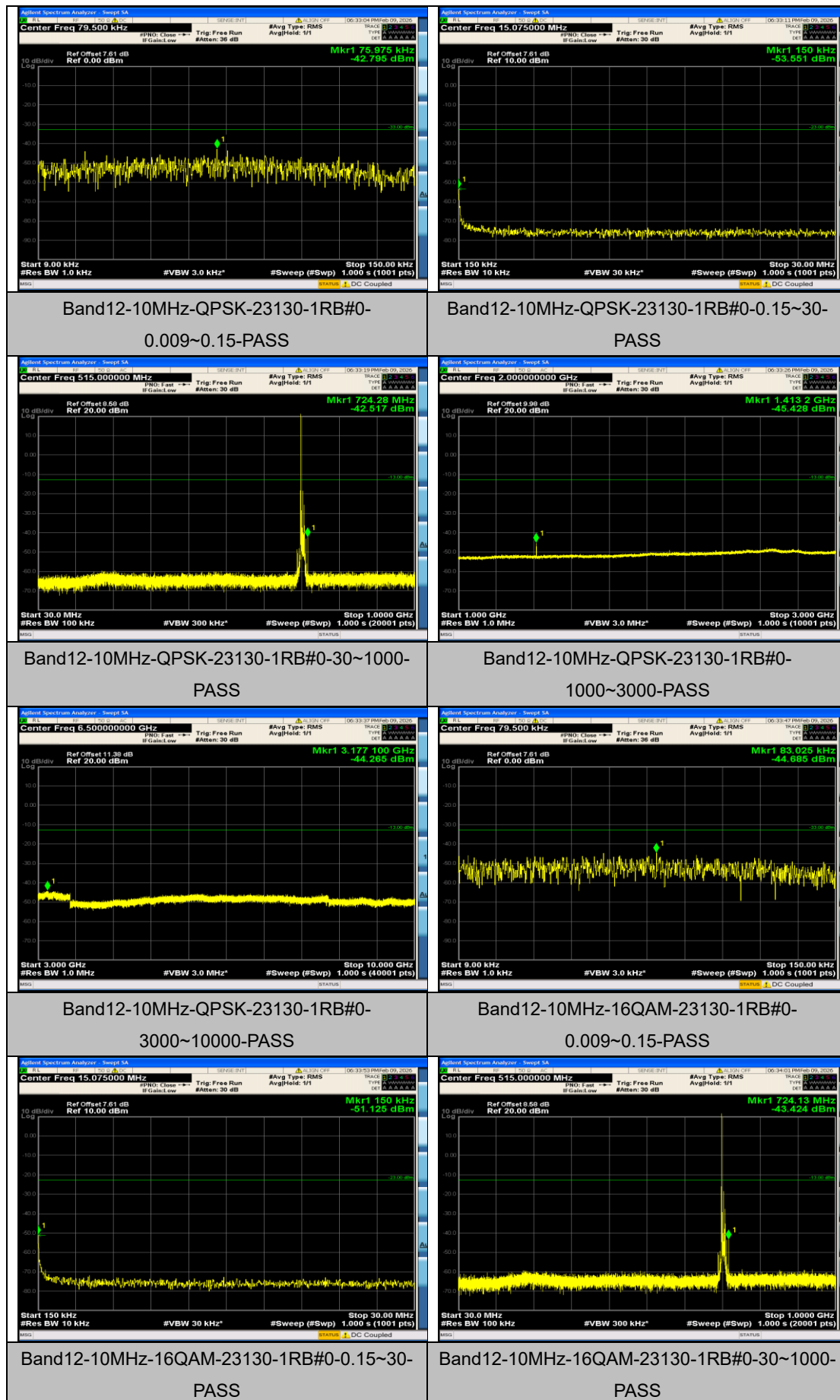
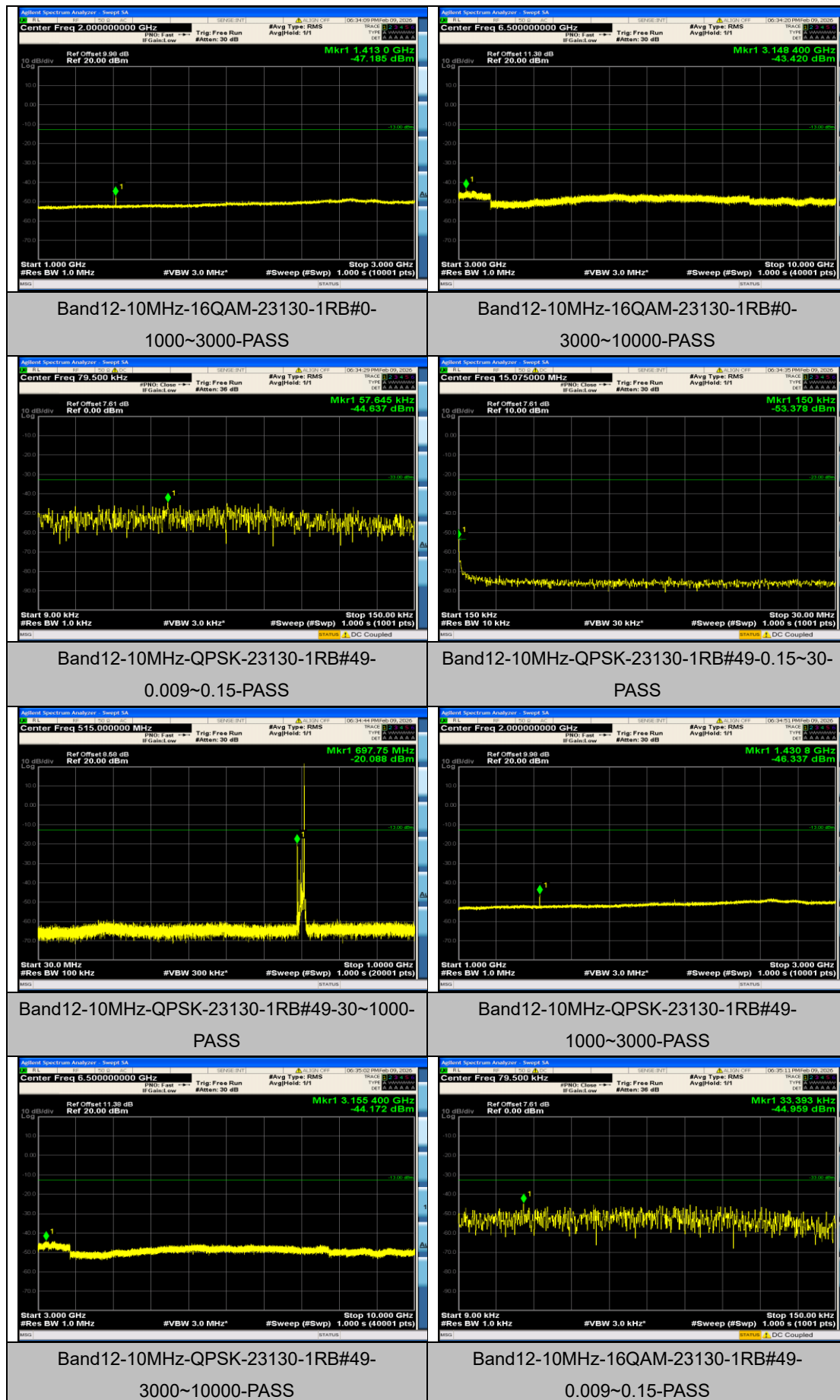
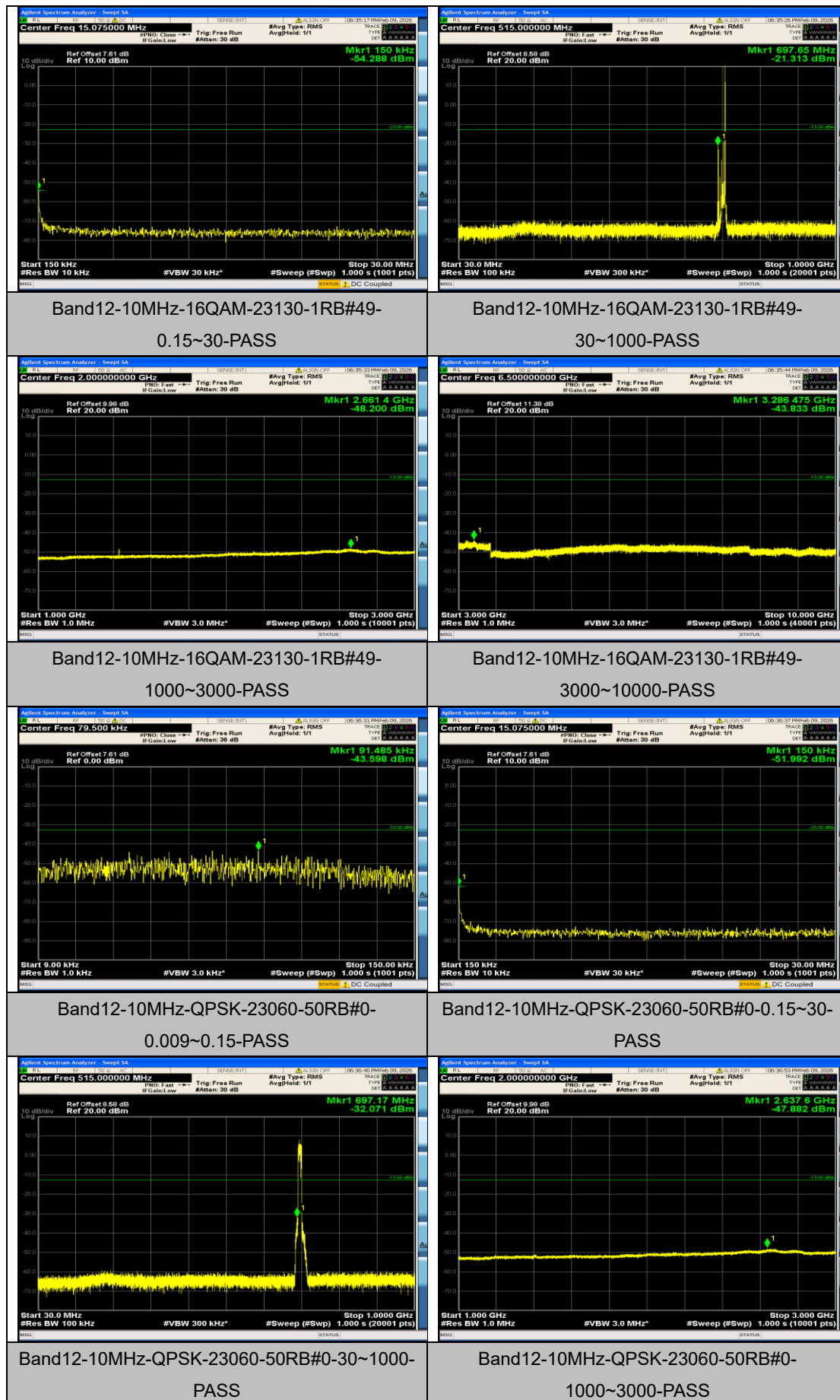


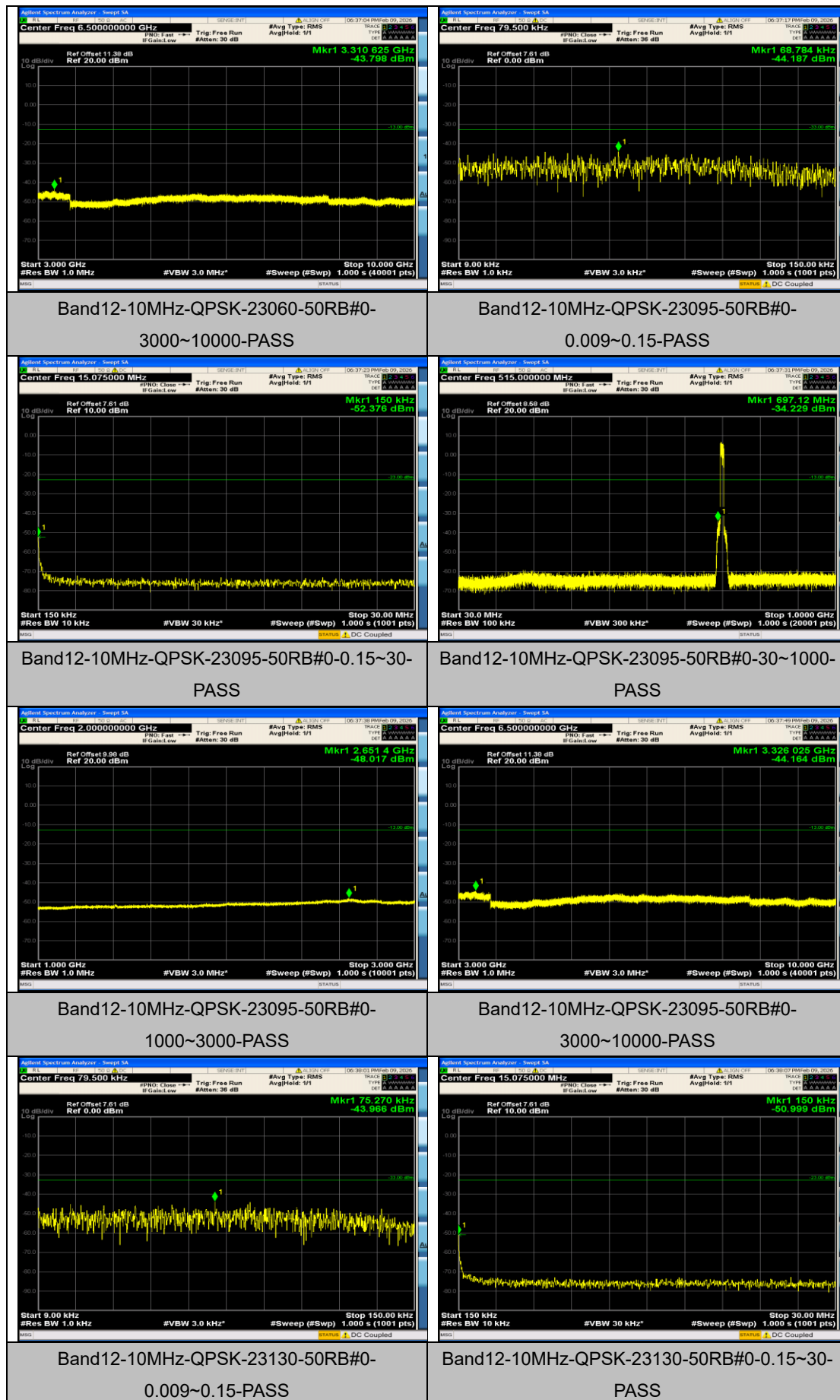


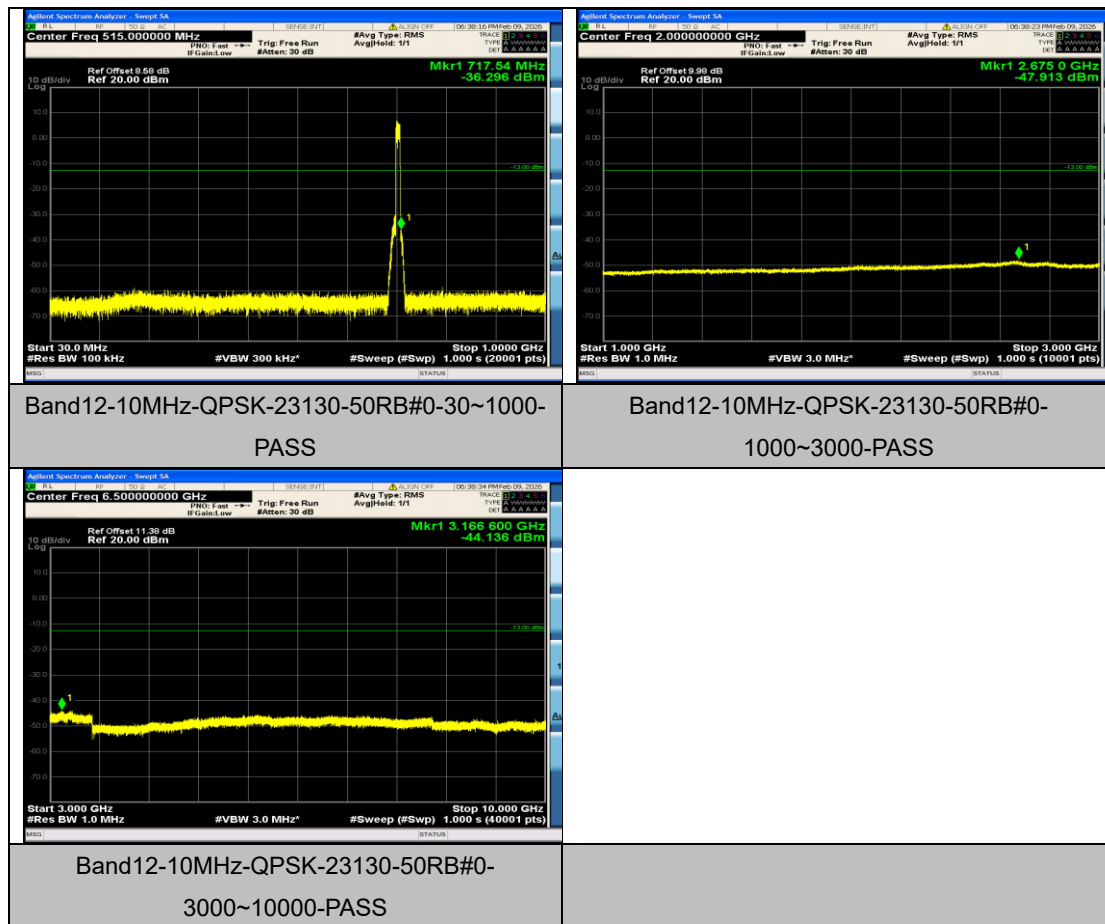












Appendix E: Frequency Stability

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	12.52	0.017893	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	-20	24.09	0.034429	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	-10	9.76	0.013949	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	0	24.50	0.035015	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	10	7.71	0.011019	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	20	25.66	0.036673	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	30	10.80	0.015435	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	40	23.83	0.034057	±2.5	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	NV	50	28.74	0.041075	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	-30	24.63	0.035201	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	-20	12.87	0.018394	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	-10	16.34	0.023353	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	0	17.78	0.025411	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	10	9.43	0.013477	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	20	25.19	0.036001	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	30	9.23	0.013191	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	40	23.37	0.033400	±2.5	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	NV	50	7.68	0.010976	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	-30	20.40	0.028834	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	-20	21.04	0.029739	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	-10	11.87	0.016777	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	0	27.54	0.038926	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	10	11.39	0.016099	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	20	5.54	0.007830	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	30	20.34	0.028749	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	40	10.00	0.014134	±2.5	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	NV	50	27.94	0.039491	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	-30	27.41	0.038742	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	-20	21.53	0.030431	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	-10	9.04	0.012777	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	0	24.30	0.034346	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	10	11.76	0.016622	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	20	29.35	0.041484	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	30	5.34	0.007548	±2.5	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	NV	40	15.22	0.021512	±2.5	PASS

Band12	1.4MHz	16QAM	23095	6RB#0	NV	50	25.13	0.035519	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	-30	20.56	0.028743	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	-20	17.47	0.024423	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	-10	29.30	0.040962	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	0	10.84	0.015154	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	10	21.26	0.029722	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	20	5.01	0.007004	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	30	17.29	0.024172	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	40	30.26	0.042304	±2.5	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	NV	50	14.10	0.019712	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	-30	3.58	0.005005	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	-20	10.01	0.013994	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	-10	12.33	0.017238	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	0	26.56	0.037131	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	10	5.95	0.008318	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	20	14.73	0.020593	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	30	20.57	0.028757	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	40	29.75	0.041591	±2.5	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	NV	50	14.89	0.020816	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-30	18.67	0.026652	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-20	5.69	0.008123	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-10	3.19	0.004554	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	0	28.78	0.041085	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	10	6.64	0.009479	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	20	3.09	0.004411	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	30	28.00	0.039971	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	40	5.35	0.007637	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	50	26.04	0.037173	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-30	-23.89	-0.034104	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-20	-10.97	-0.015660	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-10	-29.48	-0.042084	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	0	-7.57	-0.010807	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	10	-15.44	-0.022041	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	20	-9.33	-0.013319	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	30	-25.33	-0.036160	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	40	-20.38	-0.029094	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	50	-14.06	-0.020071	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-30	22.59	0.031929	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-20	18.98	0.026827	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-10	18.67	0.026389	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	0	24.08	0.034035	±2.5	PASS

Band12	3MHz	QPSK	23095	15RB#0	NV	10	30.04	0.042459	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	20	20.30	0.028693	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	30	27.77	0.039251	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	40	13.05	0.018445	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	50	22.47	0.031760	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-30	8.87	0.012537	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-20	7.70	0.010883	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-10	8.68	0.012269	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	0	4.84	0.006841	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	10	3.75	0.005300	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	20	29.58	0.041809	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	30	24.43	0.034530	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	40	15.32	0.021654	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	50	7.22	0.010205	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-30	7.57	0.010595	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-20	18.97	0.026550	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-10	12.13	0.016977	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	0	18.73	0.026214	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	10	19.73	0.027614	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	20	18.64	0.026088	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	30	10.10	0.014136	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	40	28.08	0.039300	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	50	17.90	0.025052	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-30	-14.52	-0.020322	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-20	-15.75	-0.022043	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-10	-5.56	-0.007782	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	0	28.82	0.040336	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	10	26.79	0.037495	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	20	18.11	0.025346	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	30	6.74	0.009433	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	40	7.82	0.010945	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	50	20.14	0.028188	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-30	13.79	0.019658	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-20	18.85	0.026871	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-10	17.95	0.025588	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	0	9.06	0.012915	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	10	18.75	0.026728	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	20	6.37	0.009081	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	30	22.32	0.031818	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	40	27.32	0.038945	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	50	10.77	0.015353	±2.5	PASS

Band12	5MHz	16QAM	23035	25RB#0	NV	-30	16.19	0.023079	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-20	20.69	0.029494	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-10	28.34	0.040399	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	0	20.46	0.029166	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	10	9.50	0.013542	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	20	17.85	0.025445	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	30	23.69	0.033770	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	40	5.52	0.007869	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	50	14.33	0.020428	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-30	-22.62	-0.031972	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-20	-14.58	-0.020608	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-10	13.60	0.019223	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	0	25.71	0.036339	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	10	18.91	0.026728	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	20	22.09	0.031223	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	30	7.60	0.010742	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	40	27.31	0.038601	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	50	19.45	0.027491	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-30	14.29	0.020198	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-20	15.45	0.021837	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-10	22.14	0.031293	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	0	25.99	0.036735	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	10	27.64	0.039067	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	20	12.83	0.018134	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	30	18.01	0.025456	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	40	12.37	0.017484	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	50	17.52	0.024763	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-30	29.30	0.041065	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-20	15.81	0.022158	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-10	9.57	0.013413	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	0	19.03	0.026671	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	10	22.63	0.031717	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	20	14.03	0.019664	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	30	28.77	0.040322	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	40	17.28	0.024219	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	50	23.72	0.033245	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-30	-7.07	-0.009909	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-20	17.08	0.023938	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-10	20.17	0.028269	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	0	11.44	0.016034	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	10	27.78	0.038935	±2.5	PASS

Band12	5MHz	16QAM	23155	25RB#0	NV	20	14.98	0.020995	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	30	20.33	0.028493	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	40	3.32	0.004653	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	50	28.45	0.039874	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	-29.04	-0.041250	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-27.17	-0.038594	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-15.85	-0.022514	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-12.72	-0.018068	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-16.41	-0.023310	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-6.78	-0.009631	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-12.82	-0.018210	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-5.52	-0.007841	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	9.91	0.014077	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	20.53	0.029018	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	7.18	0.010148	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	20.03	0.028311	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	6.12	0.008650	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	19.45	0.027491	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	9.63	0.013611	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	24.40	0.034488	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	19.00	0.026855	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	15.09	0.021329	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	16.19	0.022771	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	18.81	0.026456	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	19.53	0.027468	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	28.08	0.039494	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	29.01	0.040802	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	18.02	0.025345	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	12.36	0.017384	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	25.38	0.035696	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	13.38	0.018819	±2.5	PASS