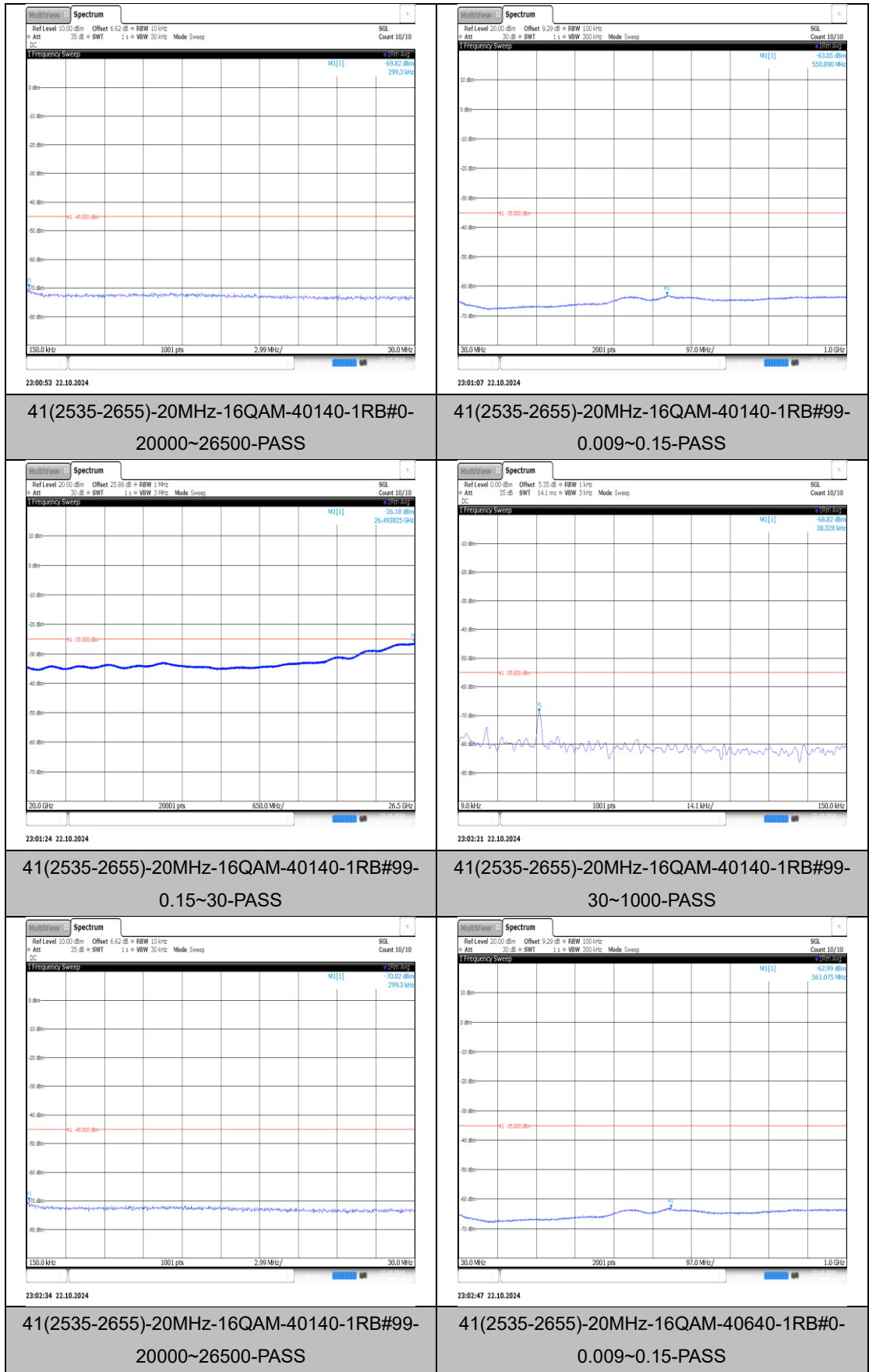
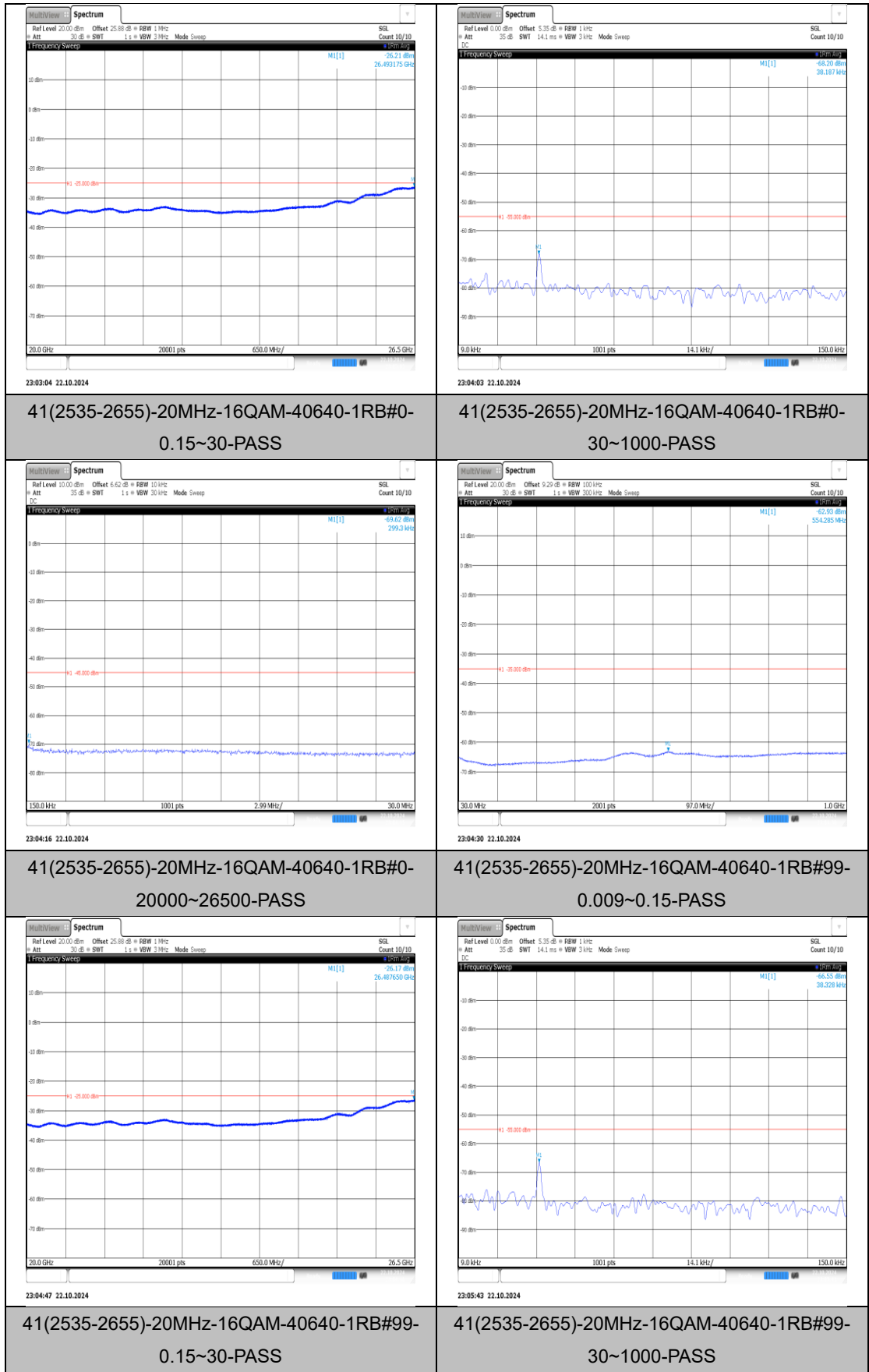
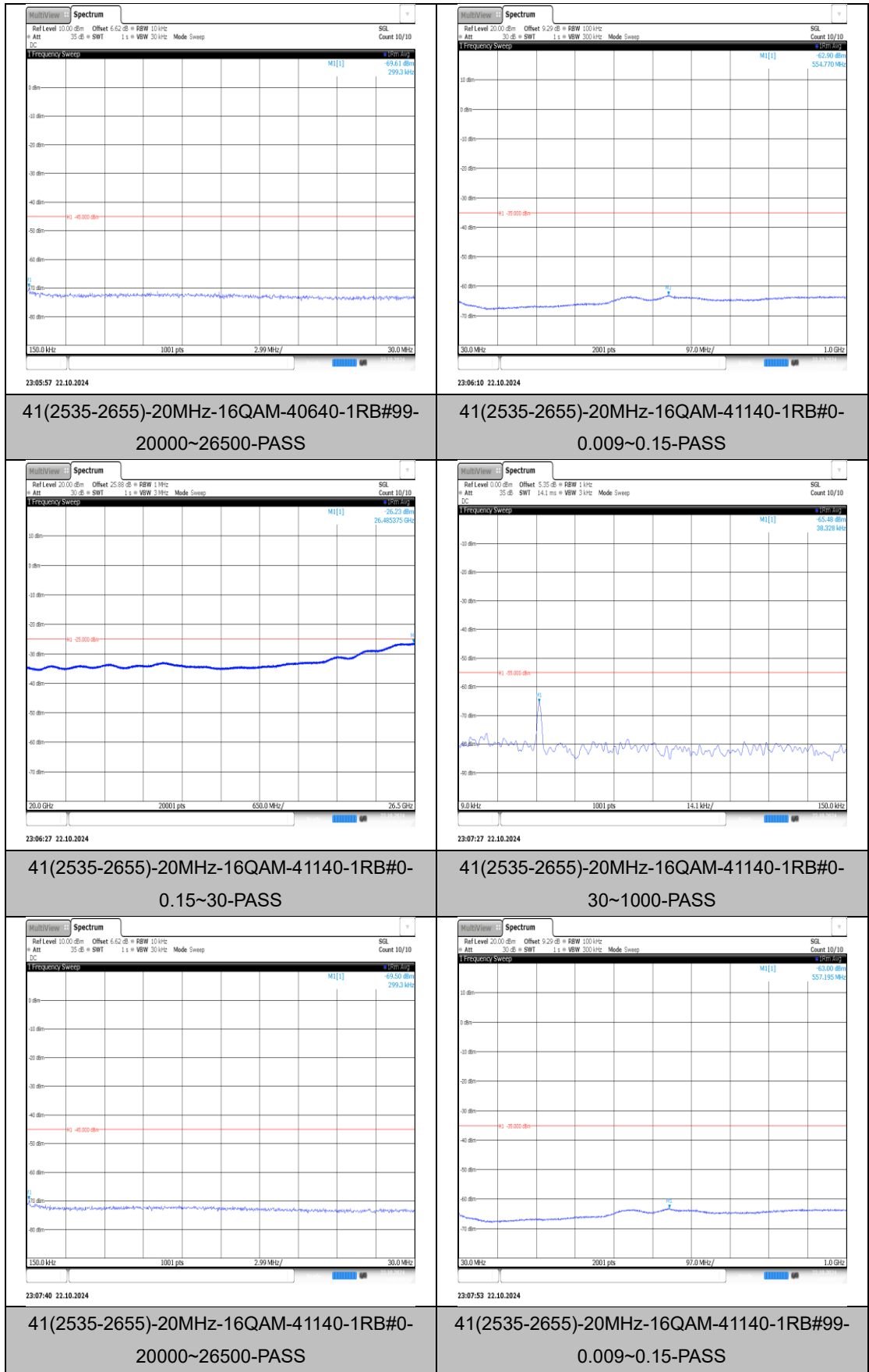
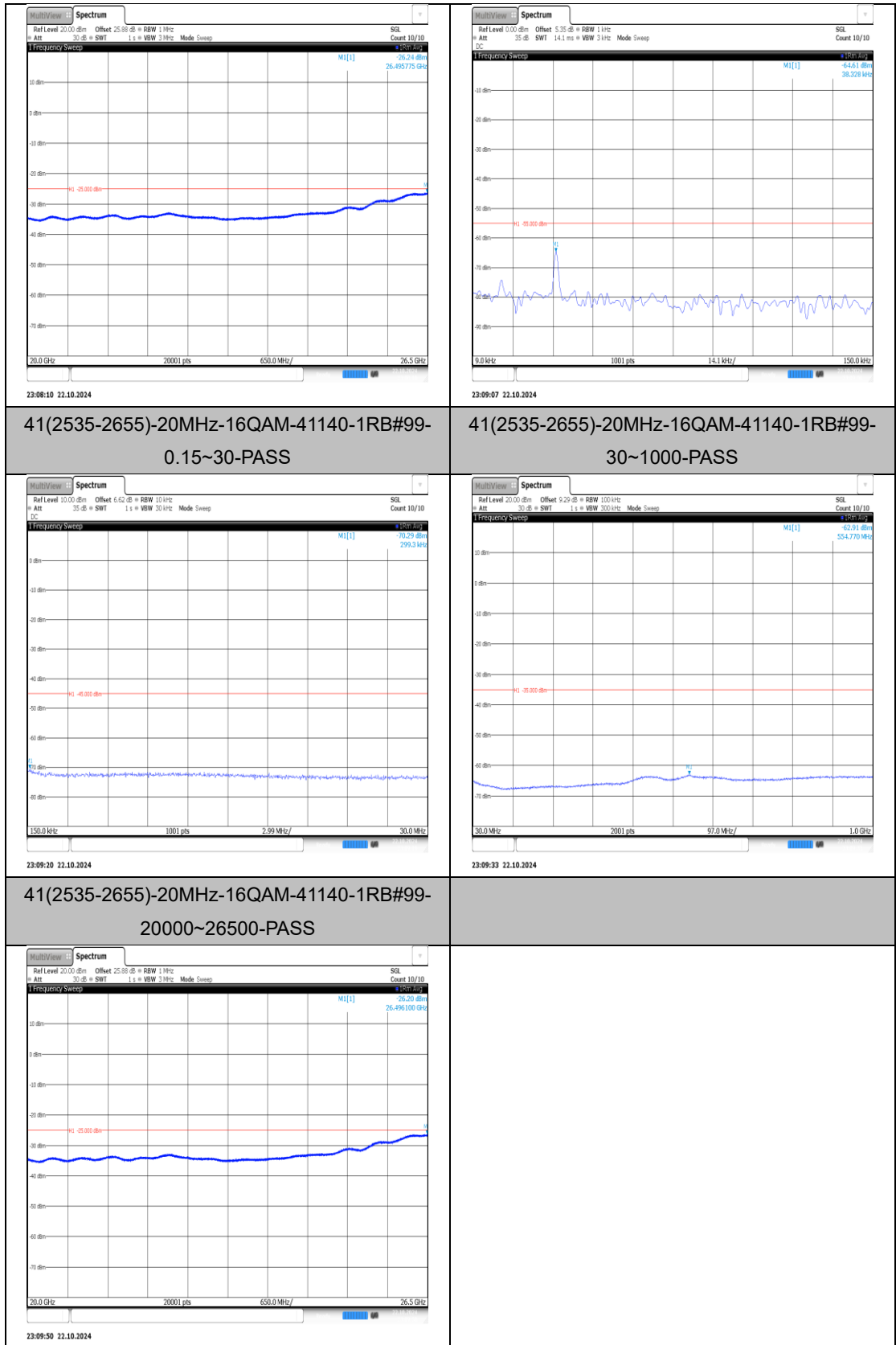










Appendix E: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20525	6RB#0	VN	NT	1.59	0.001901	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VL	NT	-2.92	-0.003491	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VH	NT	-4.68	-0.005595	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VN	NT	4.72	0.005643	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VL	NT	5.31	0.006348	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VH	NT	6.08	0.007268	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VN	NT	-4.33	-0.005176	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VL	NT	-2.85	-0.003407	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VH	NT	-4.43	-0.005296	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	3.82	0.004567	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	3.89	0.004650	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-4.43	-0.005296	±2.5	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	VN	NT	-8.21	-0.003554	±2.5	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	VL	NT	-12.26	-0.005307	±2.5	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	VH	NT	-13.32	-0.005766	±2.5	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	VN	NT	-8.03	-0.003476	±2.5	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	VL	NT	-5.46	-0.002364	±2.5	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	VH	NT	-7.57	-0.003277	±2.5	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	VN	NT	5.18	0.002200	±2.5	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	VL	NT	4.99	0.002119	±2.5	PASS

2360)										
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	VH	NT	-10.53	-0.004471	±2.5	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	VN	NT	-9.41	-0.003996	±2.5	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	VL	NT	-5.31	-0.002255	±2.5	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	VH	NT	3.62	0.001537	±2.5	PASS
41(2535-2655)	5MHz	QPSK	40640	25RB#0	VN	NT	-11.94	-0.004601	±2.5	PASS
41(2535-2655)	5MHz	QPSK	40640	25RB#0	VL	NT	4.85	0.001869	±2.5	PASS
41(2535-2655)	5MHz	QPSK	40640	25RB#0	VH	NT	-6.52	-0.002513	±2.5	PASS
41(2535-2655)	10MHz	QPSK	40640	50RB#0	VN	NT	6.77	0.002609	±2.5	PASS
41(2535-2655)	10MHz	QPSK	40640	50RB#0	VL	NT	9.76	0.003761	±2.5	PASS
41(2535-2655)	10MHz	QPSK	40640	50RB#0	VH	NT	11.04	0.004254	±2.5	PASS
41(2535-2655)	15MHz	QPSK	40640	75RB#0	VN	NT	11.74	0.004524	±2.5	PASS
41(2535-2655)	15MHz	QPSK	40640	75RB#0	VL	NT	10.26	0.003954	±2.5	PASS
41(2535-2655)	15MHz	QPSK	40640	75RB#0	VH	NT	16.05	0.006185	±2.5	PASS
41(2535-2655)	20MHz	QPSK	40640	100RB#0	VN	NT	12.42	0.004786	±2.5	PASS
41(2535-2655)	20MHz	QPSK	40640	100RB#0	VL	NT	14.03	0.005407	±2.5	PASS
41(2535-2655)	20MHz	QPSK	40640	100RB#0	VH	NT	11.24	0.004331	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	3.20	0.003825	±2.5	PASS

Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	5.49	0.006563	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-10	-5.54	-0.006623	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	3.26	0.003897	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	3.06	0.003658	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	4.58	0.005475	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	30	2.37	0.002833	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	40	3.96	0.004734	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	50	-2.16	-0.002582	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	3.03	0.003622	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	3.63	0.004340	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-10	3.73	0.004459	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	5.36	0.006408	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	10	-3.98	-0.004758	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	3.35	0.004005	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	30	3.69	0.004411	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	40	2.78	0.003323	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	50	6.67	0.007974	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	-3.76	-0.004495	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	1.96	0.002343	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-10	-3.35	-0.004005	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	1.57	0.001877	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	3.02	0.003610	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	3.96	0.004734	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	30	-4.92	-0.005882	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	40	2.03	0.002427	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	50	2.50	0.002989	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	1.33	0.001590	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-6.37	-0.007615	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	4.13	0.004937	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-2.92	-0.003491	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	3.06	0.003658	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	2.27	0.002714	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	3.62	0.004328	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-2.23	-0.002666	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-3.93	-0.004698	±2.5	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	NV	-30	-3.20	-0.001385	±2.5	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	NV	-20	-10.34	-0.004476	±2.5	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	NV	-10	-5.58	-0.002416	±2.5	PASS

2305-2315)										
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	NV	0	-9.58	-0.004147	±2.5	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	NV	10	-8.47	-0.003667	±2.5	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	NV	20	-7.77	-0.003364	±2.5	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	NV	30	7.72	0.003342	±2.5	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	NV	40	5.91	0.002558	±2.5	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	NV	50	-12.30	-0.005325	±2.5	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	NV	-30	-9.51	-0.004117	±2.5	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	NV	-20	-8.38	-0.003628	±2.5	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	NV	-10	-8.00	-0.003463	±2.5	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	NV	0	4.33	0.001874	±2.5	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	NV	10	-9.01	-0.003900	±2.5	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	NV	20	-7.55	-0.003268	±2.5	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	NV	30	-8.90	-0.003853	±2.5	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	NV	40	-2.79	-0.001208	±2.5	PASS

2315)										
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	NV	50	6.39	0.002766	±2.5	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	NV	-30	-6.11	-0.002594	±2.5	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	NV	-20	-7.62	-0.003236	±2.5	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	NV	-10	-7.68	-0.003261	±2.5	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	NV	0	-7.87	-0.003342	±2.5	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	NV	10	-9.11	-0.003868	±2.5	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	NV	20	-5.89	-0.002501	±2.5	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	NV	30	-9.91	-0.004208	±2.5	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	NV	40	-8.54	-0.003626	±2.5	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	NV	50	-7.58	-0.003219	±2.5	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	NV	-30	-6.91	-0.002934	±2.5	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	NV	-20	-7.91	-0.003359	±2.5	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	NV	-10	7.72	0.003278	±2.5	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	NV	0	-7.41	-0.003146	±2.5	PASS

Band40(2350- 2360)	10MHz	QPSK	39200	50RB#0	NV	10	-10.04	-0.004263	±2.5	PASS
Band40(2350- 2360)	10MHz	QPSK	39200	50RB#0	NV	20	-8.80	-0.003737	±2.5	PASS
Band40(2350- 2360)	10MHz	QPSK	39200	50RB#0	NV	30	-9.04	-0.003839	±2.5	PASS
Band40(2350- 2360)	10MHz	QPSK	39200	50RB#0	NV	40	-7.98	-0.003389	±2.5	PASS
Band40(2350- 2360)	10MHz	QPSK	39200	50RB#0	NV	50	-7.84	-0.003329	±2.5	PASS
41(2535- 2655)	5MHz	QPSK	40640	25RB#0	NV	-30	-17.62	-0.006790	±2.5	PASS
41(2535- 2655)	5MHz	QPSK	40640	25RB#0	NV	-20	-27.98	-0.010782	±2.5	PASS
41(2535- 2655)	5MHz	QPSK	40640	25RB#0	NV	-10	-29.23	-0.011264	±2.5	PASS
41(2535- 2655)	5MHz	QPSK	40640	25RB#0	NV	0	-27.91	-0.010755	±2.5	PASS
41(2535- 2655)	5MHz	QPSK	40640	25RB#0	NV	10	-19.25	-0.007418	±2.5	PASS
41(2535- 2655)	5MHz	QPSK	40640	25RB#0	NV	20	-30.20	-0.011638	±2.5	PASS
41(2535- 2655)	5MHz	QPSK	40640	25RB#0	NV	30	-16.57	-0.006385	±2.5	PASS
41(2535- 2655)	5MHz	QPSK	40640	25RB#0	NV	40	-29.00	-0.011175	±2.5	PASS
41(2535- 2655)	5MHz	QPSK	40640	25RB#0	NV	50	-14.65	-0.005645	±2.5	PASS
41(2535- 2655)	10MHz	QPSK	40640	50RB#0	NV	-30	5.97	0.002301	±2.5	PASS
41(2535- 2655)	10MHz	QPSK	40640	50RB#0	NV	-20	9.84	0.003792	±2.5	PASS
41(2535- 2655)	10MHz	QPSK	40640	50RB#0	NV	-10	7.64	0.002944	±2.5	PASS
41(2535- 2655)	10MHz	QPSK	40640	50RB#0	NV	0	5.05	0.001946	±2.5	PASS
41(2535- 2655)	10MHz	QPSK	40640	50RB#0	NV	10	15.76	0.006073	±2.5	PASS

41(2535-2655)	10MHz	QPSK	40640	50RB#0	NV	20	4.02	0.001549	±2.5	PASS
41(2535-2655)	10MHz	QPSK	40640	50RB#0	NV	30	8.51	0.003279	±2.5	PASS
41(2535-2655)	10MHz	QPSK	40640	50RB#0	NV	40	12.63	0.004867	±2.5	PASS
41(2535-2655)	10MHz	QPSK	40640	50RB#0	NV	50	11.16	0.004301	±2.5	PASS
41(2535-2655)	15MHz	QPSK	40640	75RB#0	NV	-30	14.51	0.005592	±2.5	PASS
41(2535-2655)	15MHz	QPSK	40640	75RB#0	NV	-20	11.22	0.004324	±2.5	PASS
41(2535-2655)	15MHz	QPSK	40640	75RB#0	NV	-10	12.42	0.004786	±2.5	PASS
41(2535-2655)	15MHz	QPSK	40640	75RB#0	NV	0	7.97	0.003071	±2.5	PASS
41(2535-2655)	15MHz	QPSK	40640	75RB#0	NV	10	14.91	0.005746	±2.5	PASS
41(2535-2655)	15MHz	QPSK	40640	75RB#0	NV	20	11.22	0.004324	±2.5	PASS
41(2535-2655)	15MHz	QPSK	40640	75RB#0	NV	30	12.19	0.004697	±2.5	PASS
41(2535-2655)	15MHz	QPSK	40640	75RB#0	NV	40	4.69	0.001807	±2.5	PASS
41(2535-2655)	15MHz	QPSK	40640	75RB#0	NV	50	6.29	0.002424	±2.5	PASS
41(2535-2655)	20MHz	QPSK	40640	100RB#0	NV	-30	7.70	0.002967	±2.5	PASS
41(2535-2655)	20MHz	QPSK	40640	100RB#0	NV	-20	11.60	0.004470	±2.5	PASS
41(2535-2655)	20MHz	QPSK	40640	100RB#0	NV	-10	12.04	0.004640	±2.5	PASS
41(2535-2655)	20MHz	QPSK	40640	100RB#0	NV	0	7.64	0.002944	±2.5	PASS
41(2535-2655)	20MHz	QPSK	40640	100RB#0	NV	10	11.49	0.004428	±2.5	PASS
41(2535-2655)	20MHz	QPSK	40640	100RB#0	NV	20	11.37	0.004382	±2.5	PASS
41(2535-2655)	20MHz	QPSK	40640	100RB#0	NV	30	10.31	0.003973	±2.5	PASS
41(2535-2655)	20MHz	QPSK	40640	100RB#0	NV	40	5.14	0.001981	±2.5	PASS
41(2535-2655)	20MHz	QPSK	40640	100RB#0	NV	50	4.82	0.001857	±2.5	PASS

[illegible]