







Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandName	Bandwidth	Modulation	Channel	RBcfg	VolValue	TempValue	ValueHz	ValuePpm	Limit	Verdict

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-30	30.54	0.037032	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-20	30.00	0.036377	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-10	20.53	0.024894	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	0	29.25	0.035467	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	10	25.39	0.030787	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	20	27.68	0.033564	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	30	23.22	0.028156	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	40	30.16	0.036571	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	50	30.77	0.037311	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	19.63	0.023467	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	20.00	0.023909	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-10	29.21	0.034919	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	15.49	0.018518	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	31.26	0.037370	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	22.34	0.026707	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	30	30.38	0.036318	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	40	28.92	0.034573	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	50	29.07	0.034752	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-30	31.39	0.037003	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-20	31.26	0.036850	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-10	30.07	0.035447	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	0	31.13	0.036697	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	10	23.47	0.027667	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	20	32.01	0.037734	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	30	23.65	0.027879	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	40	30.13	0.035518	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	50	26.62	0.031380	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-30	14.25	0.017279	±2.5	PASS

Band5	1.4MHz	16QAM	20407	6RB#0	NV	-20	22.34	0.027089	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-10	-4.72	-0.005723	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	0	9.08	0.011010	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	10	11.26	0.013653	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	20	10.70	0.012974	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	30	13.00	0.015763	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	40	20.47	0.024821	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	50	14.53	0.017619	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	-7.45	-0.008906	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	-5.91	-0.007065	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-10	-7.77	-0.009289	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	-24.62	-0.029432	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	-19.74	-0.023598	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	2.59	0.003096	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	30	-9.38	-0.011213	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	40	-10.66	-0.012744	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	50	-11.24	-0.013437	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-30	7.98	0.009407	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-20	20.08	0.023671	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-10	6.69	0.007886	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	0	9.81	0.011564	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	10	-5.48	-0.006460	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	20	-25.91	-0.030543	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	30	-9.91	-0.011682	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	40	9.93	0.011706	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	50	12.20	0.014382	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-30	31.39	0.038025	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-20	28.57	0.034609	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-10	30.67	0.037153	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	0	29.80	0.036099	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	10	27.62	0.033459	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	20	27.24	0.032998	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	30	9.24	0.011193	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	40	16.14	0.019552	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	50	15.68	0.018995	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	31.50	0.037657	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	31.24	0.037346	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-10	26.71	0.031931	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	20.00	0.023909	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	10	29.33	0.035063	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	28.00	0.033473	±2.5	PASS

Band5	3MHz	QPSK	20525	15RB#0	NV	30	29.41	0.035158	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	40	15.76	0.018840	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	50	26.98	0.032253	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-30	32.47	0.038313	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-20	28.67	0.033829	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-10	32.54	0.038395	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	0	24.55	0.028968	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	10	30.47	0.035953	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	20	28.54	0.033676	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	30	27.38	0.032307	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	40	26.85	0.031681	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	50	24.86	0.029333	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-30	-17.70	-0.021442	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-20	-25.21	-0.030539	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-10	-22.04	-0.026699	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	0	-18.10	-0.021926	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	10	-21.43	-0.025960	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	20	-29.15	-0.035312	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	30	-15.18	-0.018389	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	40	-17.62	-0.021345	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	50	-27.68	-0.033531	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-30	-26.91	-0.032170	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	-18.78	-0.022451	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-10	-14.75	-0.017633	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	-14.99	-0.017920	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	-29.90	-0.035744	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	-24.19	-0.028918	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	30	1.67	0.001996	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	40	12.42	0.014848	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	50	21.21	0.025356	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-30	12.85	0.015162	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-20	-23.02	-0.027162	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-10	-16.88	-0.019917	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	0	28.54	0.033676	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	10	16.19	0.019103	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	20	7.54	0.008897	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	30	18.34	0.021640	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	40	11.10	0.013097	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	50	29.38	0.034667	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-30	26.78	0.032402	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-20	21.82	0.026400	±2.5	PASS

Band5	5MHz	QPSK	20425	25RB#0	NV	-10	29.77	0.036019	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	0	18.54	0.022432	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	10	14.31	0.017314	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	20	27.04	0.032716	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	30	30.07	0.036382	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	40	30.14	0.036467	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	50	12.50	0.015124	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	18.31	0.021889	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	17.92	0.021423	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-10	11.60	0.013867	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	12.43	0.014860	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	22.56	0.026970	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	24.48	0.029265	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	30	28.22	0.033736	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	40	20.21	0.024160	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	50	7.27	0.008691	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-30	31.81	0.037578	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-20	27.22	0.032156	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-10	28.48	0.033644	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	0	28.81	0.034034	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	10	26.46	0.031258	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	20	30.33	0.035830	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	30	25.78	0.030455	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	40	25.38	0.029982	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	50	23.85	0.028175	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-30	-16.38	-0.019819	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-20	-23.55	-0.028494	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-10	-20.43	-0.024719	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	0	-25.32	-0.030635	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	10	-29.18	-0.035306	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	20	-7.77	-0.009401	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	30	-7.57	-0.009159	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	40	5.64	0.006824	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	50	-26.16	-0.031652	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-30	-17.98	-0.021494	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	-14.71	-0.017585	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-10	-15.69	-0.018757	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	-12.04	-0.014393	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	-26.89	-0.032146	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	20	-19.10	-0.022833	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	30	-12.90	-0.015421	±2.5	PASS

Band5	5MHz	16QAM	20525	25RB#0	NV	40	-16.52	-0.019749	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	50	-28.92	-0.034573	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-30	-6.74	-0.007962	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-20	26.25	0.031010	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-10	12.83	0.015157	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	0	29.07	0.034341	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	10	4.53	0.005351	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	20	-7.67	-0.009061	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	30	-14.18	-0.016751	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	40	-28.97	-0.034223	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	50	-22.44	-0.026509	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	27.41	0.033064	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	29.97	0.036152	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	25.08	0.030253	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	26.97	0.032533	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	26.99	0.032557	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	27.92	0.033679	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	27.92	0.033679	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	25.94	0.031291	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	25.38	0.030615	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	24.79	0.029635	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	29.14	0.034836	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	23.47	0.028057	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	26.74	0.031967	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	9.44	0.011285	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	27.89	0.033341	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	29.27	0.034991	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	26.88	0.032134	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	28.07	0.033556	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	27.02	0.032014	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	30.71	0.036386	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	26.88	0.031848	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	29.31	0.034727	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	25.94	0.030735	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	28.98	0.034336	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	29.41	0.034846	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	24.45	0.028969	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	22.76	0.026967	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	PASS
Band5	3MHz	QPSK	20415	15RB#0	PASS
Band5	3MHz	QPSK	20525	15RB#0	PASS
Band5	3MHz	QPSK	20635	15RB#0	PASS
Band5	3MHz	16QAM	20415	15RB#0	PASS
Band5	3MHz	16QAM	20525	15RB#0	PASS
Band5	3MHz	16QAM	20635	15RB#0	PASS
Band5	5MHz	QPSK	20425	25RB#0	PASS
Band5	5MHz	QPSK	20525	25RB#0	PASS
Band5	5MHz	QPSK	20625	25RB#0	PASS
Band5	5MHz	16QAM	20425	25RB#0	PASS
Band5	5MHz	16QAM	20525	25RB#0	PASS
Band5	5MHz	16QAM	20625	25RB#0	PASS
Band5	10MHz	QPSK	20450	50RB#0	PASS
Band5	10MHz	QPSK	20525	50RB#0	PASS
Band5	10MHz	QPSK	20600	50RB#0	PASS
Band5	10MHz	16QAM	20450	1RB#0	PASS
Band5	10MHz	16QAM	20525	1RB#0	PASS
Band5	10MHz	16QAM	20600	1RB#0	PASS

Test Graphs







