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Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band17	5MHz	QPSK	23755	25RB#0	VN	NT	1.42	0.002010	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	VL	NT	1.14	0.001614	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	VH	NT	-1.46	-0.002067	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VN	NT	0.87	0.001231	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VL	NT	1.80	0.002548	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VH	NT	-2.69	-0.003808	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VN	NT	-1.59	-0.002239	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VL	NT	-1.10	-0.001549	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VH	NT	2.95	0.004155	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VN	NT	5.34	0.007521	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VL	NT	5.15	0.007254	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VH	NT	-6.52	-0.009183	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VN	NT	5.82	0.008157	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VL	NT	-3.30	-0.004625	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VH	NT	-1.90	-0.002663	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VN	NT	2.62	0.003672	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VL	NT	1.54	0.002158	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VH	NT	1.29	0.001808	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-2.03	-0.002863	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	1.59	0.002243	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-8.70	-0.012271	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-8.43	-0.011890	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-8.58	-0.012102	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	-5.38	-0.007588	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	1.04	0.001465	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	3.62	0.005099	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	4.21	0.005930	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-5.75	-0.008099	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-5.94	-0.008366	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-5.05	-0.007113	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-3.85	-0.005415	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-3.23	-0.004543	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-1.10	-0.001547	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-2.55	-0.003586	±2.5	PASS

Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-3.00	-0.004219	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-1.69	-0.002377	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	NV	-30	-1.26	-0.001783	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	-20	-1.96	-0.002774	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	-10	-3.42	-0.004841	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	0	-3.56	-0.005039	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	10	-4.68	-0.006624	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	20	-6.19	-0.008762	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	30	4.16	0.005888	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	40	4.05	0.005732	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	50	1.99	0.002817	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-30	-2.27	-0.003213	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-20	-1.67	-0.002364	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-10	-1.13	-0.001599	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	0	0.93	0.001316	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	10	2.80	0.003963	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	20	2.86	0.004048	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	30	3.48	0.004926	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	40	3.66	0.005180	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	50	4.33	0.006129	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-30	2.39	0.003366	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-20	4.19	0.005901	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-10	3.69	0.005197	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	0	4.65	0.006549	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	10	3.85	0.005423	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	20	5.62	0.007915	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	30	4.28	0.006028	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	40	5.16	0.007268	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	50	6.22	0.008761	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-30	-4.62	-0.006507	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-20	-4.46	-0.006282	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-10	-2.47	-0.003479	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	0	1.73	0.002437	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	10	2.55	0.003592	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	20	4.15	0.005845	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	30	-7.12	-0.010028	±2.5	PASS

Band17	5MHz	16QAM	23790	25RB#0	NV	40	-6.17	-0.008690	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	50	-4.99	-0.007028	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-30	-2.42	-0.003392	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-20	-1.99	-0.002789	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-10	-2.73	-0.003826	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	0	-3.38	-0.004737	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	10	-4.46	-0.006251	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	20	-5.38	-0.007540	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	30	-7.25	-0.010161	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	40	-6.37	-0.008928	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	50	2.90	0.004064	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-30	1.87	0.002621	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-20	2.07	0.002901	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-10	2.53	0.003546	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	0	5.21	0.007302	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	10	4.15	0.005816	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	20	-7.05	-0.009881	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	30	-4.92	-0.006896	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	40	-5.09	-0.007134	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	50	-3.66	-0.005130	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-7.27	-0.010254	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-6.82	-0.009619	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	-5.78	-0.008152	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-4.73	-0.006671	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-4.03	-0.005684	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-2.92	-0.004118	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-2.15	-0.003032	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	1.10	0.001551	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-9.26	-0.013061	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-4.15	-0.005853	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-2.00	-0.002821	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	-1.82	-0.002567	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	3.05	0.004302	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	-5.99	-0.008449	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-4.11	-0.005797	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-2.35	-0.003315	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	1.99	0.002807	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-8.47	-0.011946	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	4.84	0.006817	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	5.42	0.007634	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	6.45	0.009085	±2.5	PASS

Band17	10MHz	QPSK	23790	50RB#0	NV	0	-6.90	-0.009718	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-6.48	-0.009127	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-6.19	-0.008718	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	6.32	0.008901	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	7.01	0.009873	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-5.98	-0.008423	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	-3.91	-0.005507	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-2.76	-0.003887	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	-2.27	-0.003197	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	3.29	0.004634	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	3.76	0.005296	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-7.90	-0.011127	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-7.15	-0.010070	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	-5.09	-0.007169	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-4.45	-0.006268	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	1.60	0.002250	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	2.49	0.003502	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	1.59	0.002236	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	1.16	0.001632	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-2.09	-0.002940	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-1.32	-0.001857	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-1.43	-0.002011	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-2.30	-0.003235	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-2.22	-0.003122	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-2.00	-0.002813	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	1.47	0.002068	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-10	2.35	0.003305	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	3.60	0.005063	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	4.89	0.006878	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-6.64	-0.009339	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-4.82	-0.006779	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-3.79	-0.005331	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-2.50	-0.003516	±2.5	PASS