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## Appendix F: Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
40(2345-2360)	5MHz	QPSK	39125	25RB#0	VN	NT	-8.97	-0.003821	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39125	25RB#0	VL	NT	-8.24	-0.003510	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39125	25RB#0	VH	NT	-8.44	-0.003595	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39125	25RB#0	VN	NT	6.37	0.002714	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39125	25RB#0	VL	NT	-2.03	-0.000865	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39125	25RB#0	VH	NT	-2.73	-0.001163	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39175	25RB#0	VN	NT	-9.08	-0.003860	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39175	25RB#0	VL	NT	-4.58	-0.001947	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39175	25RB#0	VH	NT	-3.19	-0.001356	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39175	25RB#0	VN	NT	-9.76	-0.004149	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39175	25RB#0	VL	NT	-12.65	-0.005377	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39175	25RB#0	VH	NT	-11.59	-0.004927	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39225	25RB#0	VN	NT	-12.00	-0.005090	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39225	25RB#0	VL	NT	-12.09	-0.005128	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39225	25RB#0	VH	NT	-8.97	-0.003805	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39225	25RB#0	VN	NT	-2.76	-0.001171	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39225	25RB#0	VL	NT	-7.58	-0.003215	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39225	25RB#0	VH	NT	-7.35	-0.003118	±2.5	PASS

-2360)										
40(2345 -2360)	10MHz	QPSK	39150	50RB#0	VN	NT	-13.96	-0.005940	±2.5	PASS
40(2345 -2360)	10MHz	QPSK	39150	50RB#0	VL	NT	-12.67	-0.005391	±2.5	PASS
40(2345 -2360)	10MHz	QPSK	39150	50RB#0	VH	NT	-8.90	-0.003787	±2.5	PASS
40(2345 -2360)	10MHz	16QAM	39150	50RB#0	VN	NT	-8.25	-0.003511	±2.5	PASS
40(2345 -2360)	10MHz	16QAM	39150	50RB#0	VL	NT	-9.27	-0.003945	±2.5	PASS
40(2345 -2360)	10MHz	16QAM	39150	50RB#0	VH	NT	-7.17	-0.003051	±2.5	PASS
40(2345 -2360)	10MHz	QPSK	39175	50RB#0	VN	NT	3.43	0.001458	±2.5	PASS
40(2345 -2360)	10MHz	QPSK	39175	50RB#0	VL	NT	-12.77	-0.005428	±2.5	PASS
40(2345 -2360)	10MHz	QPSK	39175	50RB#0	VH	NT	-13.49	-0.005734	±2.5	PASS
40(2345 -2360)	10MHz	16QAM	39175	50RB#0	VN	NT	-2.26	-0.000961	±2.5	PASS
40(2345 -2360)	10MHz	16QAM	39175	50RB#0	VL	NT	-2.55	-0.001084	±2.5	PASS
40(2345 -2360)	10MHz	16QAM	39175	50RB#0	VH	NT	-9.41	-0.004000	±2.5	PASS
40(2345 -2360)	10MHz	QPSK	39200	50RB#0	VN	NT	-3.55	-0.001507	±2.5	PASS
40(2345 -2360)	10MHz	QPSK	39200	50RB#0	VL	NT	3.49	0.001482	±2.5	PASS
40(2345 -2360)	10MHz	QPSK	39200	50RB#0	VH	NT	6.95	0.002951	±2.5	PASS
40(2345 -2360)	10MHz	16QAM	39200	50RB#0	VN	NT	-3.69	-0.001567	±2.5	PASS
40(2345 -2360)	10MHz	16QAM	39200	50RB#0	VL	NT	-5.58	-0.002369	±2.5	PASS
40(2345 -2360)	10MHz	16QAM	39200	50RB#0	VH	NT	-6.48	-0.002752	±2.5	PASS
40(2345 -2360)	15MHz	QPSK	39175	75RB#0	VN	NT	-7.85	-0.003337	±2.5	PASS
40(2345 -2360)	15MHz	QPSK	39175	75RB#0	VL	NT	-7.81	-0.003320	±2.5	PASS
40(2345	15MHz	QPSK	39175	75RB#0	VH	NT	-8.50	-0.003613	±2.5	PASS

-2360)										
40(2345-2360)	15MHz	16QAM	39175	75RB#0	VN	NT	4.69	0.001994	±2.5	PASS
40(2345-2360)	15MHz	16QAM	39175	75RB#0	VL	NT	8.60	0.003656	±2.5	PASS
40(2345-2360)	15MHz	16QAM	39175	75RB#0	VH	NT	-14.20	-0.006036	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
40(2345-2360)	5MHz	QPSK	39125	25RB#0	NV	-30	-9.54	-0.004064	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39125	25RB#0	NV	-20	10.86	0.004626	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39125	25RB#0	NV	-10	-11.64	-0.004958	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39125	25RB#0	NV	0	6.98	0.002973	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39125	25RB#0	NV	10	6.84	0.002914	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39125	25RB#0	NV	20	2.80	0.001193	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39125	25RB#0	NV	30	-5.02	-0.002138	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39125	25RB#0	NV	40	-6.95	-0.002961	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39125	25RB#0	NV	50	-9.84	-0.004192	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39125	25RB#0	NV	-30	-4.43	-0.001887	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39125	25RB#0	NV	-20	-4.16	-0.001772	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39125	25RB#0	NV	-10	-3.48	-0.001482	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39125	25RB#0	NV	0	2.09	0.000890	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39125	25RB#0	NV	10	-2.12	-0.000903	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39125	25RB#0	NV	20	-2.65	-0.001129	±2.5	PASS

40(2345-2360)	5MHz	16QAM	39125	25RB#0	NV	30	2.03	0.000865	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39125	25RB#0	NV	40	2.47	0.001052	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39125	25RB#0	NV	50	4.33	0.001845	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39175	25RB#0	NV	-30	-2.53	-0.001075	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39175	25RB#0	NV	-20	1.57	0.000667	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39175	25RB#0	NV	-10	-5.01	-0.002130	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39175	25RB#0	NV	0	-9.46	-0.004021	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39175	25RB#0	NV	10	-12.53	-0.005326	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39175	25RB#0	NV	20	-12.96	-0.005509	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39175	25RB#0	NV	30	3.10	0.001318	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39175	25RB#0	NV	40	-6.51	-0.002767	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39175	25RB#0	NV	50	-8.15	-0.003464	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39175	25RB#0	NV	-30	-13.90	-0.005909	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39175	25RB#0	NV	-20	9.46	0.004021	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39175	25RB#0	NV	-10	-13.38	-0.005688	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39175	25RB#0	NV	0	-13.07	-0.005556	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39175	25RB#0	NV	10	-12.92	-0.005492	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39175	25RB#0	NV	20	-10.94	-0.004650	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39175	25RB#0	NV	30	-8.20	-0.003486	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39175	25RB#0	NV	40	-6.94	-0.002950	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39175	25RB#0	NV	50	-6.11	-0.002597	±2.5	PASS

40(2345-2360)	5MHz	QPSK	39225	25RB#0	NV	-30	-12.00	-0.005090	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39225	25RB#0	NV	-20	-15.31	-0.006494	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39225	25RB#0	NV	-10	7.04	0.002986	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39225	25RB#0	NV	0	-2.70	-0.001145	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39225	25RB#0	NV	10	-4.69	-0.001989	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39225	25RB#0	NV	20	-8.23	-0.003491	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39225	25RB#0	NV	30	-12.99	-0.005510	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39225	25RB#0	NV	40	9.83	0.004170	±2.5	PASS
40(2345-2360)	5MHz	QPSK	39225	25RB#0	NV	50	4.12	0.001748	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39225	25RB#0	NV	-30	-10.19	-0.004322	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39225	25RB#0	NV	-20	-9.18	-0.003894	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39225	25RB#0	NV	-10	-8.05	-0.003415	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39225	25RB#0	NV	0	-8.63	-0.003661	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39225	25RB#0	NV	10	-6.67	-0.002829	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39225	25RB#0	NV	20	-8.94	-0.003792	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39225	25RB#0	NV	30	-8.08	-0.003427	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39225	25RB#0	NV	40	-6.87	-0.002914	±2.5	PASS
40(2345-2360)	5MHz	16QAM	39225	25RB#0	NV	50	-9.07	-0.003847	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39150	50RB#0	NV	-30	-10.44	-0.004443	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39150	50RB#0	NV	-20	-9.06	-0.003855	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39150	50RB#0	NV	-10	-9.44	-0.004017	±2.5	PASS

40(2345-2360)	10MHz	QPSK	39150	50RB#0	NV	0	-10.20	-0.004340	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39150	50RB#0	NV	10	-8.35	-0.003553	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39150	50RB#0	NV	20	-7.80	-0.003319	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39150	50RB#0	NV	30	-6.88	-0.002928	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39150	50RB#0	NV	40	-9.54	-0.004060	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39150	50RB#0	NV	50	-10.43	-0.004438	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39150	50RB#0	NV	-30	-8.57	-0.003647	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39150	50RB#0	NV	-20	-3.99	-0.001698	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39150	50RB#0	NV	-10	-4.56	-0.001940	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39150	50RB#0	NV	0	4.08	0.001736	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39150	50RB#0	NV	10	8.04	0.003421	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39150	50RB#0	NV	20	-13.96	-0.005940	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39150	50RB#0	NV	30	-13.32	-0.005668	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39150	50RB#0	NV	40	-8.91	-0.003791	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39150	50RB#0	NV	50	-9.04	-0.003847	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39175	50RB#0	NV	-30	-10.91	-0.004638	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39175	50RB#0	NV	-20	-12.82	-0.005450	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39175	50RB#0	NV	-10	-14.33	-0.006091	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39175	50RB#0	NV	0	-13.78	-0.005858	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39175	50RB#0	NV	10	-14.69	-0.006244	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39175	50RB#0	NV	20	6.29	0.002674	±2.5	PASS

40(2345-2360)	10MHz	QPSK	39175	50RB#0	NV	30	6.19	0.002631	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39175	50RB#0	NV	40	3.81	0.001620	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39175	50RB#0	NV	50	-1.69	-0.000718	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39175	50RB#0	NV	-30	-3.42	-0.001454	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39175	50RB#0	NV	-20	-2.33	-0.000990	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39175	50RB#0	NV	-10	4.69	0.001994	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39175	50RB#0	NV	0	3.46	0.001471	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39175	50RB#0	NV	10	7.24	0.003078	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39175	50RB#0	NV	20	-15.35	-0.006525	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39175	50RB#0	NV	30	-13.62	-0.005790	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39175	50RB#0	NV	40	-9.04	-0.003843	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39175	50RB#0	NV	50	-10.76	-0.004574	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39200	50RB#0	NV	-30	-12.52	-0.005316	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39200	50RB#0	NV	-20	-12.96	-0.005503	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39200	50RB#0	NV	-10	-12.42	-0.005274	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39200	50RB#0	NV	0	-11.76	-0.004994	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39200	50RB#0	NV	10	-14.00	-0.005945	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39200	50RB#0	NV	20	4.38	0.001860	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39200	50RB#0	NV	30	5.21	0.002212	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39200	50RB#0	NV	40	1.96	0.000832	±2.5	PASS
40(2345-2360)	10MHz	QPSK	39200	50RB#0	NV	50	-3.03	-0.001287	±2.5	PASS

40(2345-2360)	10MHz	16QAM	39200	50RB#0	NV	-30	-6.22	-0.002641	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39200	50RB#0	NV	-20	-3.32	-0.001410	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39200	50RB#0	NV	-10	-2.63	-0.001117	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39200	50RB#0	NV	0	3.98	0.001690	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39200	50RB#0	NV	10	4.92	0.002089	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39200	50RB#0	NV	20	5.85	0.002484	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39200	50RB#0	NV	30	-11.66	-0.004951	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39200	50RB#0	NV	40	-13.46	-0.005715	±2.5	PASS
40(2345-2360)	10MHz	16QAM	39200	50RB#0	NV	50	7.82	0.003321	±2.5	PASS
40(2345-2360)	15MHz	QPSK	39175	75RB#0	NV	-30	-6.19	-0.002631	±2.5	PASS
40(2345-2360)	15MHz	QPSK	39175	75RB#0	NV	-20	-4.63	-0.001968	±2.5	PASS
40(2345-2360)	15MHz	QPSK	39175	75RB#0	NV	-10	-4.26	-0.001811	±2.5	PASS
40(2345-2360)	15MHz	QPSK	39175	75RB#0	NV	0	-3.13	-0.001330	±2.5	PASS
40(2345-2360)	15MHz	QPSK	39175	75RB#0	NV	10	3.23	0.001373	±2.5	PASS
40(2345-2360)	15MHz	QPSK	39175	75RB#0	NV	20	2.85	0.001211	±2.5	PASS
40(2345-2360)	15MHz	QPSK	39175	75RB#0	NV	30	3.52	0.001496	±2.5	PASS
40(2345-2360)	15MHz	QPSK	39175	75RB#0	NV	40	2.17	0.000922	±2.5	PASS
40(2345-2360)	15MHz	QPSK	39175	75RB#0	NV	50	4.85	0.002062	±2.5	PASS
40(2345-2360)	15MHz	16QAM	39175	75RB#0	NV	-30	-10.99	-0.004672	±2.5	PASS
40(2345-2360)	15MHz	16QAM	39175	75RB#0	NV	-20	-7.65	-0.003252	±2.5	PASS
40(2345-2360)	15MHz	16QAM	39175	75RB#0	NV	-10	-3.92	-0.001666	±2.5	PASS



40(2345-2360)	15MHz	16QAM	39175	75RB#0	NV	0	2.47	0.001050	±2.5	PASS
40(2345-2360)	15MHz	16QAM	39175	75RB#0	NV	10	6.77	0.002878	±2.5	PASS
40(2345-2360)	15MHz	16QAM	39175	75RB#0	NV	20	-13.95	-0.005930	±2.5	PASS
40(2345-2360)	15MHz	16QAM	39175	75RB#0	NV	30	-7.61	-0.003235	±2.5	PASS
40(2345-2360)	15MHz	16QAM	39175	75RB#0	NV	40	-3.60	-0.001530	±2.5	PASS
40(2345-2360)	15MHz	16QAM	39175	75RB#0	NV	50	3.95	0.001679	±2.5	PASS