

































Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.001824	± 2.5	PASS
		VN	TN	-0.003057	± 2.5	PASS
		VH	TN	-0.002312	± 2.5	PASS
	MCH	VL	TN	-0.001423	± 2.5	PASS
		VN	TN	-0.000463	± 2.5	PASS
		VH	TN	-0.000826	± 2.5	PASS
	HCH	VL	TN	-0.001257	± 2.5	PASS
		VN	TN	-0.001684	± 2.5	PASS
		VH	TN	-0.001311	± 2.5	PASS
16QAM	LCH	VL	TN	-0.001530	± 2.5	PASS
		VN	TN	-0.002511	± 2.5	PASS
		VH	TN	0.000524	± 2.5	PASS
	MCH	VL	TN	0.000961	± 2.5	PASS
		VN	TN	0.000040	± 2.5	PASS
		VH	TN	-0.001911	± 2.5	PASS
	HCH	VL	TN	-0.001735	± 2.5	PASS
		VN	TN	-0.0001801	± 2.5	PASS
		VH	TN	-0.000785	± 2.5	PASS
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.000827	± 2.5	PASS
		VN	-20	-0.001937	± 2.5	PASS
		VN	-10	0.000323	± 2.5	PASS
		VN	0	-0.000545	± 2.5	PASS
		VN	10	-0.001494	± 2.5	PASS
		VN	20	-0.001600	± 2.5	PASS
		VN	30	-0.001924	± 2.5	PASS
		VN	40	-0.001134	± 2.5	PASS
	MCH	VN	50	-0.001924	± 2.5	PASS
		VN	-30	-0.000604	± 2.5	PASS
		VN	-20	-0.000282	± 2.5	PASS
		VN	-10	-0.000242	± 2.5	PASS
		VN	0	-0.001672	± 2.5	PASS
		VN	10	-0.000681	± 2.5	PASS
VN	20	-0.000625	± 2.5	PASS		
VN	30	-0.001975	± 2.5	PASS		

		VN	40	0.000060	± 2.5	PASS
		VN	50	-0.001169	± 2.5	PASS
	HCH	VN	-30	-0.001931	± 2.5	PASS
		VN	-20	-0.002213	± 2.5	PASS
		VN	-10	-0.002354	± 2.5	PASS
		VN	0	-0.001328	± 2.5	PASS
		VN	10	-0.0001245	± 2.5	PASS
		VN	20	-0.000441	± 2.5	PASS
		VN	30	-0.001323	± 2.5	PASS
		VN	40	-0.000261	± 2.5	PASS
		VN	50	-0.000682	± 2.5	PASS
16QAM	LCH	VN	-30	-0.000444	± 2.5	PASS
		VN	-20	-0.001291	± 2.5	PASS
		VN	-10	-0.001675	± 2.5	PASS
		VN	0	-0.000545	± 2.5	PASS
		VN	10	-0.002501	± 2.5	PASS
		VN	20	-0.003118	± 2.5	PASS
		VN	30	-0.002733	± 2.5	PASS
		VN	40	-0.002551	± 2.5	PASS
		VN	50	-0.002005	± 2.5	PASS
	MCH	VN	-30	-0.000101	± 2.5	PASS
		VN	-20	0.000403	± 2.5	PASS
		VN	-10	-0.000725	± 2.5	PASS
		VN	0	-0.001209	± 2.5	PASS
		VN	10	-0.001247	± 2.5	PASS
		VN	20	0.001128	± 2.5	PASS
		VN	30	-0.001229	± 2.5	PASS
		VN	40	0.000564	± 2.5	PASS
		VN	50	-0.000242	± 2.5	PASS
	HCH	VN	-30	-0.000443	± 2.5	PASS
		VN	-20	-0.000765	± 2.5	PASS
		VN	-10	-0.001569	± 2.5	PASS
		VN	0	-0.001449	± 2.5	PASS
		VN	10	-0.001145	± 2.5	PASS
		VN	20	-0.000501	± 2.5	PASS
		VN	30	-0.000261	± 2.5	PASS
		VN	40	-0.003308	± 2.5	PASS
		VN	50	-0.000822	± 2.5	PASS