

































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	-0.009878	± 2.5	PASS
		VN	TN	-0.001982	± 2.5	PASS
		VH	TN	-0.007518	± 2.5	PASS
	MCH	VL	TN	-0.004523	± 2.5	PASS
		VN	TN	-0.010738	± 2.5	PASS
		VH	TN	-0.010848	± 2.5	PASS
	HCH	VL	TN	-0.004257	± 2.5	PASS
		VN	TN	-0.010996	± 2.5	PASS
		VH	TN	-0.001976	± 2.5	PASS
16QAM	LCH	VL	TN	-0.002354	± 2.5	PASS
		VN	TN	-0.007543	± 2.5	PASS
		VH	TN	-0.011927	± 2.5	PASS
	MCH	VL	TN	-0.004224	± 2.5	PASS
		VN	TN	-0.006951	± 2.5	PASS
		VH	TN	-0.005234	± 2.5	PASS
	HCH	VL	TN	-0.003146	± 2.5	PASS
		VN	TN	-0.005562	± 2.5	PASS
		VH	TN	-0.004431	± 2.5	PASS
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.011159	± 2.5	PASS
		VN	-20	-0.009073	± 2.5	PASS
		VN	-10	-0.008488	± 2.5	PASS
		VN	0	-0.010921	± 2.5	PASS
		VN	10	-0.05463	± 2.5	PASS
		VN	20	-0.005230	± 2.5	PASS
		VN	30	-0.004459	± 2.5	PASS
		VN	40	-0.006368	± 2.5	PASS
		VN	50	-0.009653	± 2.5	PASS
	MCH	VN	-30	-0.007445	± 2.5	PASS
		VN	-20	-0.009457	± 2.5	PASS
		VN	-10	-0.001039	± 2.5	PASS

		VN	0	-0.008707	± 2.5	PASS
		VN	10	-0.004545	± 2.5	PASS
		VN	20	-0.005524	± 2.5	PASS
		VN	30	-0.004189	± 2.5	PASS
		VN	40	-0.004006	± 2.5	PASS
		VN	50	-0.002543	± 2.5	PASS
	HCH	VN	-30	-0.008781	± 2.5	PASS
		VN	-20	-0.008744	± 2.5	PASS
		VN	-10	-0.007811	± 2.5	PASS
		VN	0	-0.010207	± 2.5	PASS
		VN	10	-0.005752	± 2.5	PASS
		VN	20	-0.009209	± 2.5	PASS
		VN	30	-0.018454	± 2.5	PASS
		VN	40	-0.015700	± 2.5	PASS
		VN	50	-0.011688	± 2.5	PASS
		16QAM	LCH	VN	-30	-0.007335
VN	-20			-0.006896	± 2.5	PASS
VN	-10			-0.013189	± 2.5	PASS
VN	0			-0.007848	± 2.5	PASS
VN	10			-0.006453	± 2.5	PASS
VN	20			-0.004588	± 2.5	PASS
VN	30			0.000587	± 2.5	PASS
VN	40			-0.003377	± 2.5	PASS
VN	50			-0.004900	± 2.5	PASS
MCH	VN		-30	-0.006274	± 2.5	PASS
	VN		-20	-0.011061	± 2.5	PASS
	VN		-10	-0.005799	± 2.5	PASS
	VN		0	-0.011067	± 2.5	PASS
	VN		10	-0.005347	± 2.5	PASS
	VN		20	-0.006787	± 2.5	PASS
	VN		30	-0.002982	± 2.5	PASS
	VN		40	-0.011232	± 2.5	PASS
	VN		50	-0.007390	± 2.5	PASS
HCH	VN		-30	-0.012238	± 2.5	PASS
	VN		-20	-0.007079	± 2.5	PASS
	VN		-10	-0.011708	± 2.5	PASS
	VN		0	-0.004482	± 2.5	PASS
	VN		10	-0.004245	± 2.5	PASS
	VN		20	-0.008953	± 2.5	PASS
	VN	30	-0.009920	± 2.5	PASS	
	VN	40	-0.004395	± 2.5	PASS	
VN	50	-0.007294	± 2.5	PASS		