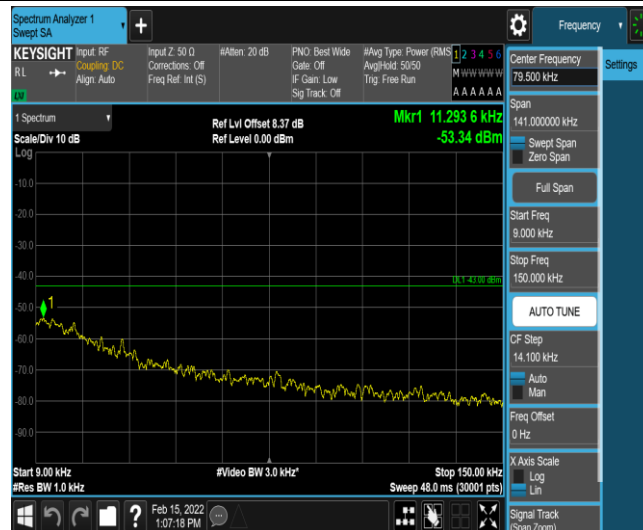




Band13-5MHz-16QAM-23205-1-0-Low-12000-26500--52.26-PASS



Band13-5MHz-16QAM-23230-1-0-Low-0.009-0.15--53.34-PASS



Band13-5MHz-16QAM-23230-1-0-Low-0.15-30--51.12-PASS



Band13-5MHz-16QAM-23230-1-0-Low-30-1000--34.08-PASS



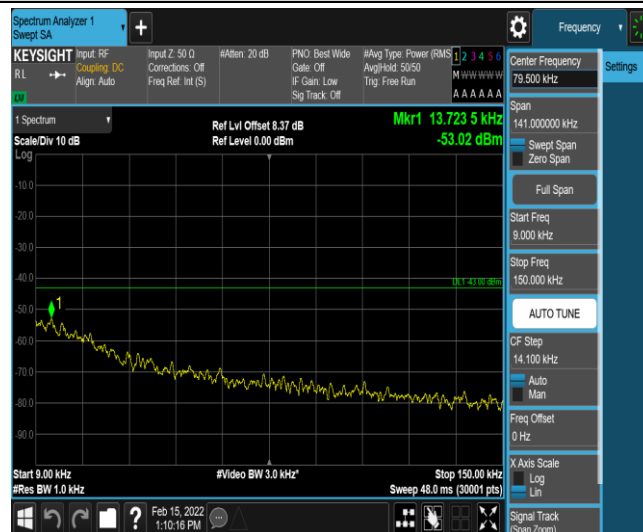
Band13-5MHz-16QAM-23230-1-0-Low-1000-5000--36.65-PASS



Band13-5MHz-16QAM-23230-1-0-Low-5000-12000--57.95-PASS



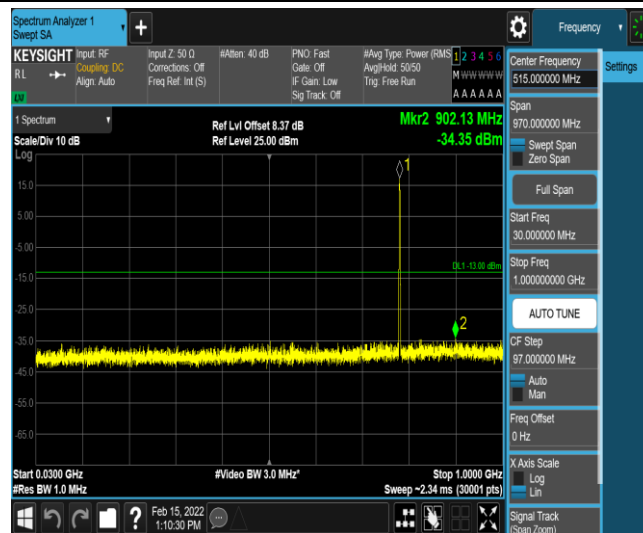
Band13-5MHz-16QAM-23230-1-0-Low-12000-26500--52.39-PASS



Band13-5MHz-16QAM-23255-1-0-High-0.009-0.15--53.02-PASS



Band13-5MHz-16QAM-23255-1-0-High-0.15-30--50.05-PASS



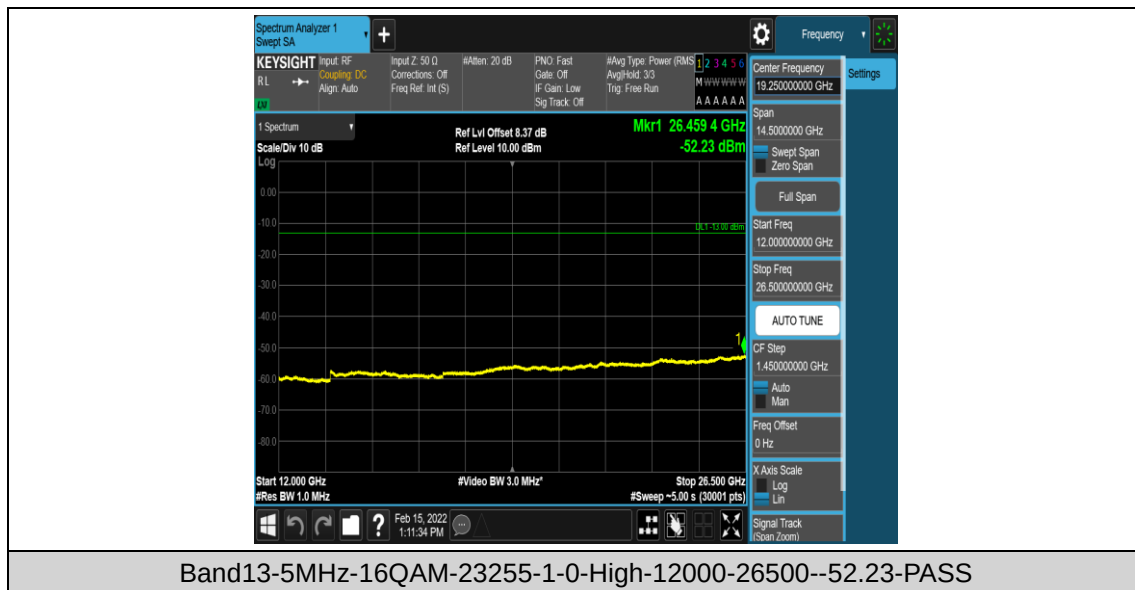
Band13-5MHz-16QAM-23255-1-0-High-30-1000--34.35-PASS



Band13-5MHz-16QAM-23255-1-0-High-1000-5000--36.6-PASS



Band13-5MHz-16QAM-23255-1-0-High-5000-12000--57.94-PASS



Appendix F: Frequency Stability for M1

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.44	0.000564	± 2.5	PASS
		VN	TN	4.35	0.005581	± 2.5	PASS
		VH	TN	4.1	0.005260	± 2.5	PASS
	MCH	VL	TN	-1.38	-0.001765	± 2.5	PASS
		VN	TN	3.42	0.004373	± 2.5	PASS
		VH	TN	2.79	0.003568	± 2.5	PASS
	HCH	VL	TN	-0.21	-0.000268	± 2.5	PASS
		VN	TN	0.25	0.000319	± 2.5	PASS
		VH	TN	3.05	0.003888	± 2.5	PASS
16QAM	LCH	VL	TN	2.84	0.003643	± 2.5	PASS
		VN	TN	-0.69	-0.000885	± 2.5	PASS
		VH	TN	4.4	0.005645	± 2.5	PASS
	MCH	VL	TN	2.26	0.002890	± 2.5	PASS
		VN	TN	-0.85	-0.001087	± 2.5	PASS
		VH	TN	2.9	0.003708	± 2.5	PASS
	HCH	VL	TN	0.59	0.000752	± 2.5	PASS
		VN	TN	1.73	0.002205	± 2.5	PASS
		VH	TN	4.3	0.005481	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.86	0.006235	± 2.5	PASS
		VN	-20	0.97	0.001244	± 2.5	PASS
		VN	-10	3.52	0.004516	± 2.5	PASS
		VN	0	-0.09	-0.000115	± 2.5	PASS
		VN	10	2.74	0.003515	± 2.5	PASS
		VN	20	2.8	0.003592	± 2.5	PASS
		VN	30	2.67	0.003425	± 2.5	PASS
		VN	40	1.83	0.002348	± 2.5	PASS
		VN	50	1.42	0.001822	± 2.5	PASS
	MCH	VN	-30	0.16	0.000205	± 2.5	PASS

		VN	-20	-1.21	-0.001547	± 2.5	PASS
		VN	-10	4.18	0.005345	± 2.5	PASS
		VN	0	3.46	0.004425	± 2.5	PASS
		VN	10	4.5	0.005754	± 2.5	PASS
		VN	20	-1.28	-0.001637	± 2.5	PASS
		VN	30	2.41	0.003082	± 2.5	PASS
		VN	40	1.79	0.002289	± 2.5	PASS
		VN	50	1.45	0.001854	± 2.5	PASS
	HCH	VN	-30	4.07	0.005188	± 2.5	PASS
		VN	-20	-0.68	-0.000867	± 2.5	PASS
		VN	-10	0.11	0.000140	± 2.5	PASS
		VN	0	3.3	0.004207	± 2.5	PASS
		VN	10	3.74	0.004767	± 2.5	PASS
		VN	20	0.79	0.001007	± 2.5	PASS
		VN	30	0.64	0.000816	± 2.5	PASS
		VN	40	0.84	0.001071	± 2.5	PASS
		VN	50	-1.27	-0.001619	± 2.5	PASS
16QAM	LCH	VN	-30	-0.49	-0.000629	± 2.5	PASS
		VN	-20	3.41	0.004375	± 2.5	PASS
		VN	-10	-1.98	-0.002540	± 2.5	PASS
		VN	0	2.77	0.003554	± 2.5	PASS
		VN	10	3.44	0.004413	± 2.5	PASS
		VN	20	-1.18	-0.001514	± 2.5	PASS
		VN	30	0.54	0.000693	± 2.5	PASS
		VN	40	0.69	0.000885	± 2.5	PASS
		VN	50	-0.28	-0.000359	± 2.5	PASS
	MCH	VN	-30	1.75	0.002238	± 2.5	PASS
		VN	-20	-1.64	-0.002097	± 2.5	PASS
		VN	-10	-0.46	-0.000588	± 2.5	PASS
		VN	0	2.18	0.002788	± 2.5	PASS
		VN	10	3.04	0.003887	± 2.5	PASS
		VN	20	1.18	0.001509	± 2.5	PASS
		VN	30	4.46	0.005703	± 2.5	PASS
		VN	40	0.53	0.000678	± 2.5	PASS
		VN	50	1.15	0.001471	± 2.5	PASS
	HCH	VN	-30	0.01	0.000013	± 2.5	PASS
		VN	-20	2.85	0.003633	± 2.5	PASS
		VN	-10	3.1	0.003952	± 2.5	PASS
		VN	0	-1.24	-0.001581	± 2.5	PASS
		VN	10	1.77	0.002256	± 2.5	PASS
		VN	20	-0.84	-0.001071	± 2.5	PASS

		VN	30	0.03	0.000038	± 2.5	PASS
		VN	40	0.76	0.000969	± 2.5	PASS
		VN	50	-0.59	-0.000752	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	MCH	VL	TN	-1.63	-0.002084	± 2.5	PASS
		VN	TN	2.17	0.002775	± 2.5	PASS
		VH	TN	2.93	0.003747	± 2.5	PASS
16QAM	MCH	VL	TN	4.18	0.005345	± 2.5	PASS
		VN	TN	3.44	0.004399	± 2.5	PASS
		VH	TN	1.18	0.001509	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	MCH	VN	-30	0.84	0.001074	± 2.5	PASS
		VN	-20	2.54	0.003248	± 2.5	PASS
		VN	-10	3.71	0.004744	± 2.5	PASS
		VN	0	-1	-0.001279	± 2.5	PASS
		VN	10	0.37	0.000473	± 2.5	PASS
		VN	20	2.02	0.002583	± 2.5	PASS
		VN	30	0.78	0.000997	± 2.5	PASS
		VN	40	0.92	0.001176	± 2.5	PASS
		VN	50	4.33	0.005537	± 2.5	PASS
16QAM	MCH	VN	-30	0.51	0.000652	± 2.5	PASS
		VN	-20	3.31	0.004233	± 2.5	PASS
		VN	-10	-0.54	-0.000691	± 2.5	PASS
		VN	0	1.25	0.001598	± 2.5	PASS
		VN	10	0.87	0.001113	± 2.5	PASS
		VN	20	4.41	0.005639	± 2.5	PASS
		VN	30	3.6	0.004604	± 2.5	PASS
		VN	40	1.25	0.001598	± 2.5	PASS
		VN	50	0.3	0.000384	± 2.5	PASS