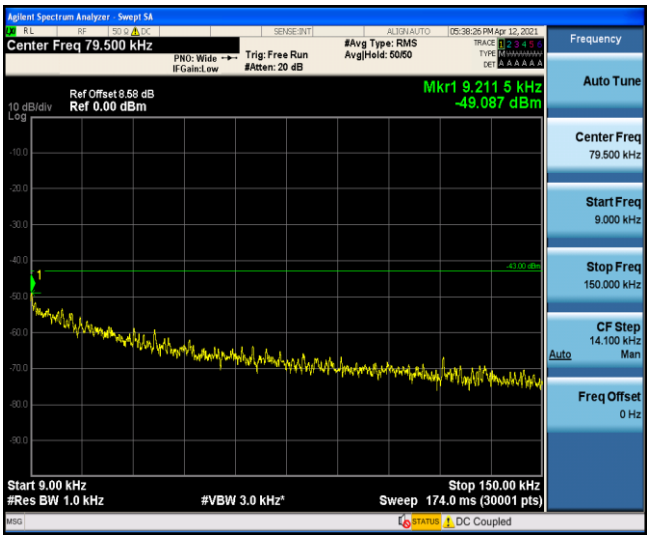
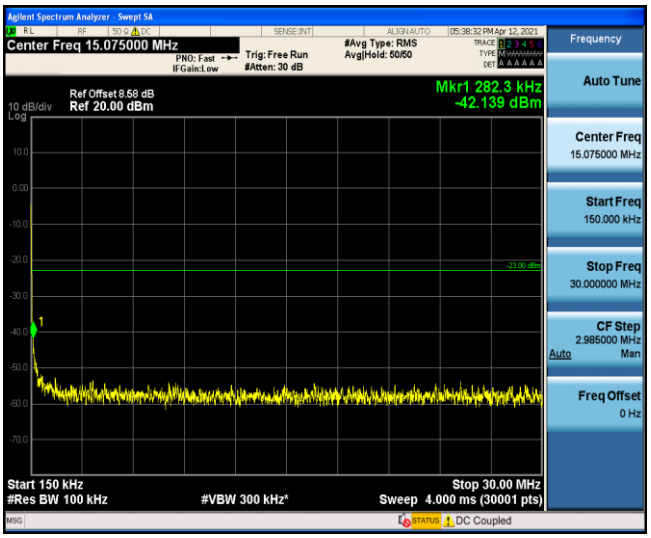
Band5-5MHz-16QAM-20425-1-0-Low-5000-12000--59.2-PASS

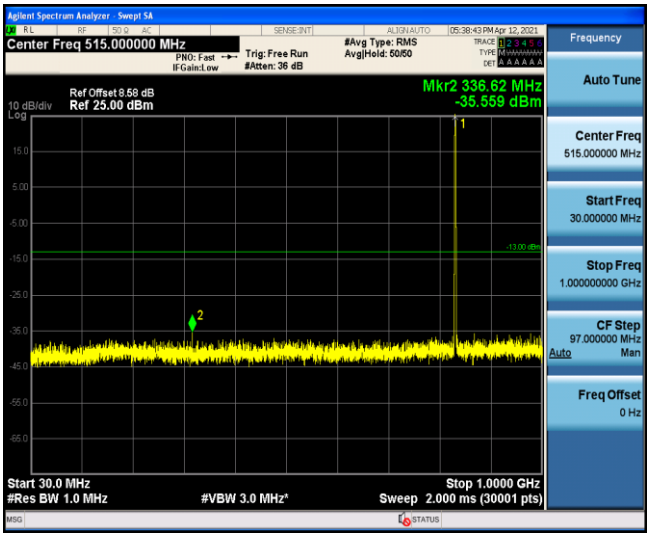
Band5-5MHz-16QAM-20425-1-0-Low-12000-26500--50.84-PASS



Band5-5MHz-16QAM-20525-1-0-Low-0.009-0.15--49.09-PASS



Band5-5MHz-16QAM-20525-1-0-Low-0.15-30--42.14-PASS

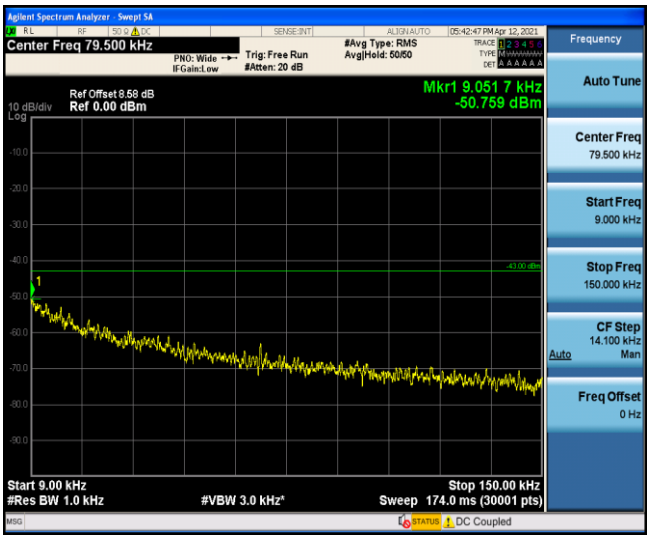


Band5-5MHz-16QAM-20525-1-0-Low-30-1000--35.56-PASS

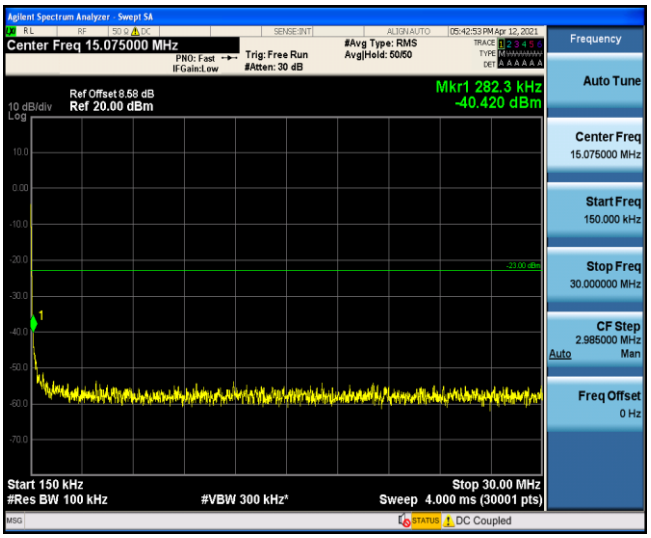
Band5-5MHz-16QAM-20525-1-0-Low-1000-5000--40.52-PASS

Band5-5MHz-16QAM-20525-1-0-Low-5000-12000--59.29-PASS

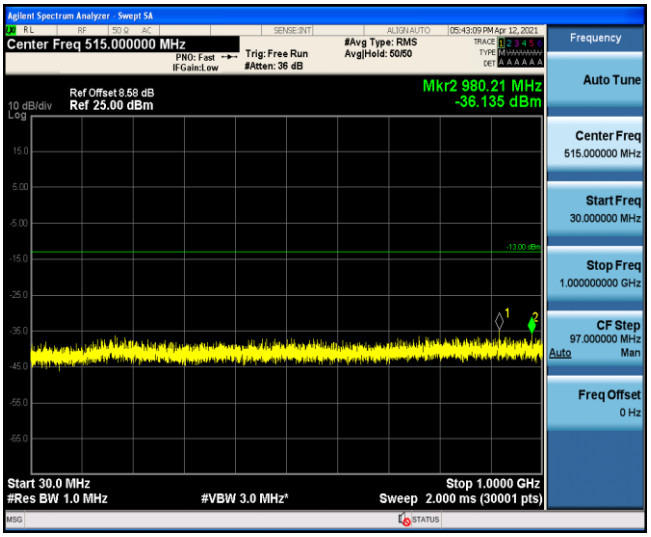
Band5-5MHz-16QAM-20525-1-0-Low-12000-26500--50.96-PASS



Band5-5MHz-16QAM-20625-1-0-High-0.009-0.15--50.76-PASS



Band5-5MHz-16QAM-20625-1-0-High-0.15-30--40.42-PASS

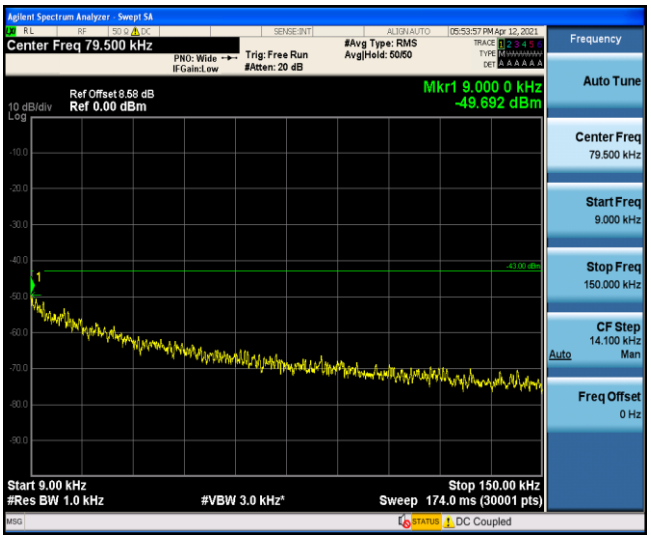


Band5-5MHz-16QAM-20625-1-0-High-30-1000--36.14-PASS

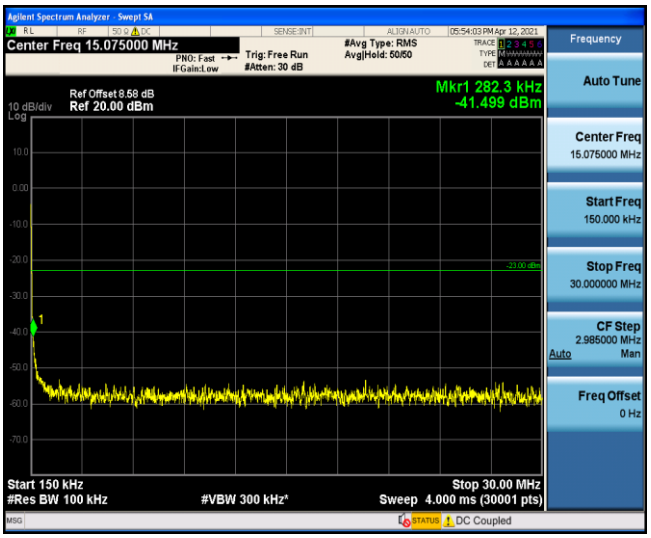
Band5-5MHz-16QAM-20625-1-0-High-1000-5000--42.71-PASS

Band5-5MHz-16QAM-20625-1-0-High-5000-12000--59.31-PASS

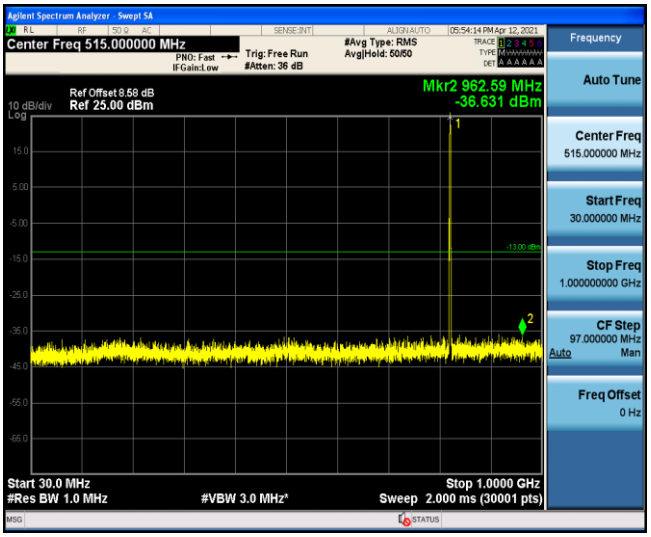
Band5-5MHz-16QAM-20625-1-0-High-12000-26500--50.83-PASS



Band5-10MHz-QPSK-20450-1-0-Low-0.009-0.15--49.69-PASS



Band5-10MHz-QPSK-20450-1-0-Low-0.15-30--41.5-PASS

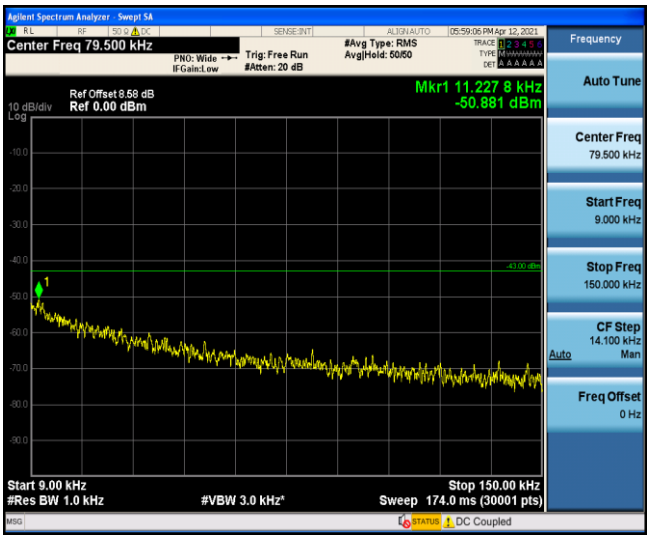


Band5-10MHz-QPSK-20450-1-0-Low-30-1000--36.63-PASS

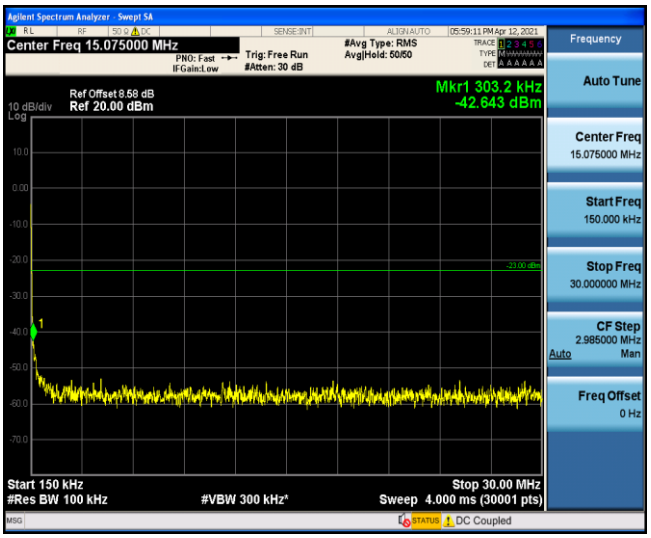
Band5-10MHz-QPSK-20450-1-0-Low-1000-5000--42.34-PASS

Band5-10MHz-QPSK-20450-1-0-Low-5000-12000--59.21-PASS

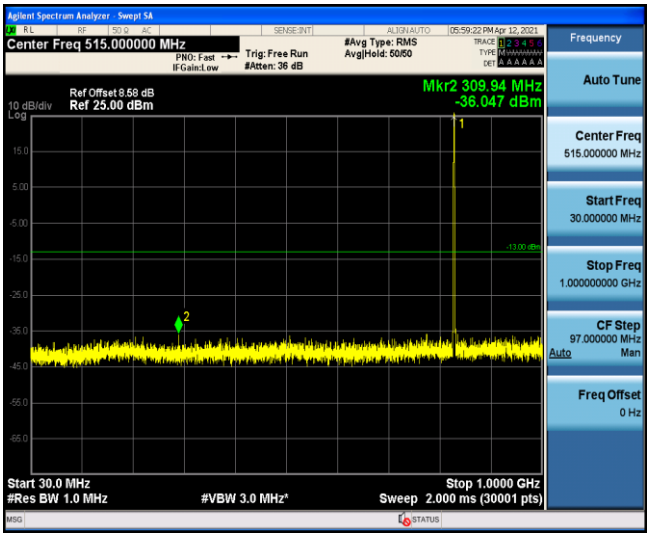
Band5-10MHz-QPSK-20450-1-0-Low-12000-26500--50.78-PASS



Band5-10MHz-QPSK-20525-1-0-Low-0.009-0.15--50.88-PASS



Band5-10MHz-QPSK-20525-1-0-Low-0.15-30--42.64-PASS

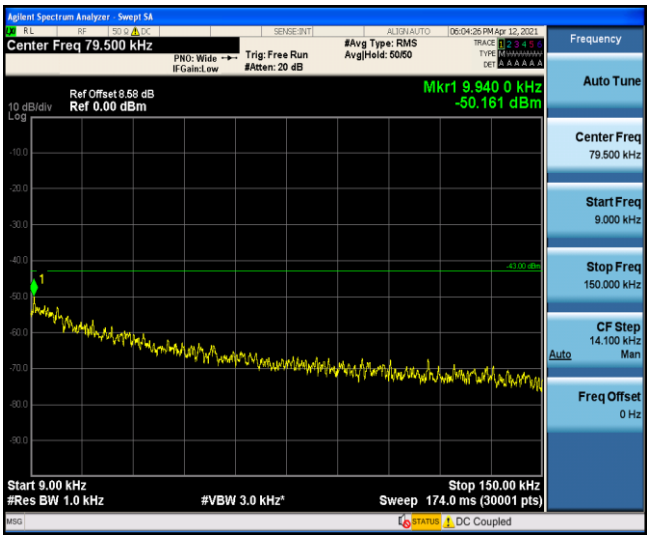


Band5-10MHz-QPSK-20525-1-0-Low-30-1000--36.05-PASS

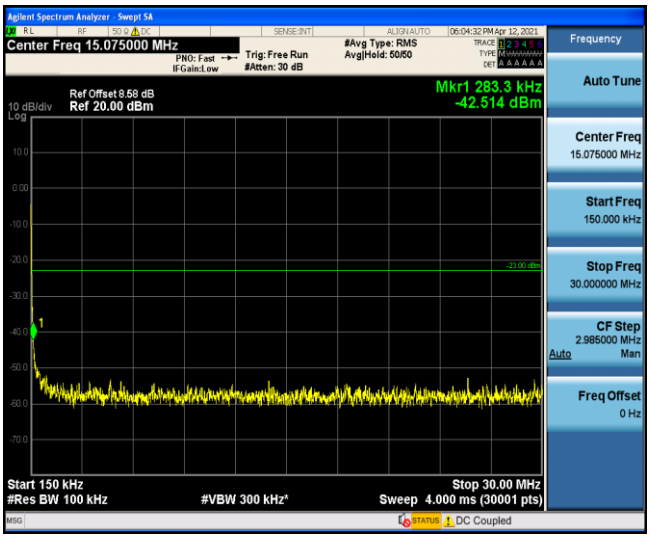
Band5-10MHz-QPSK-20525-1-0-Low-1000-5000--38.19-PASS

Band5-10MHz-QPSK-20525-1-0-Low-5000-12000--59.05-PASS

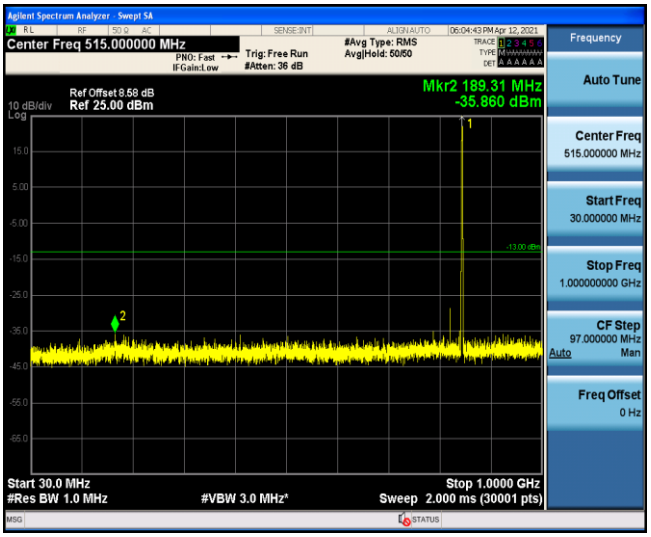
Band5-10MHz-QPSK-20525-1-0-Low-12000-26500--50.78-PASS



Band5-10MHz-QPSK-20600-1-0-High-0.009-0.15--50.16-PASS

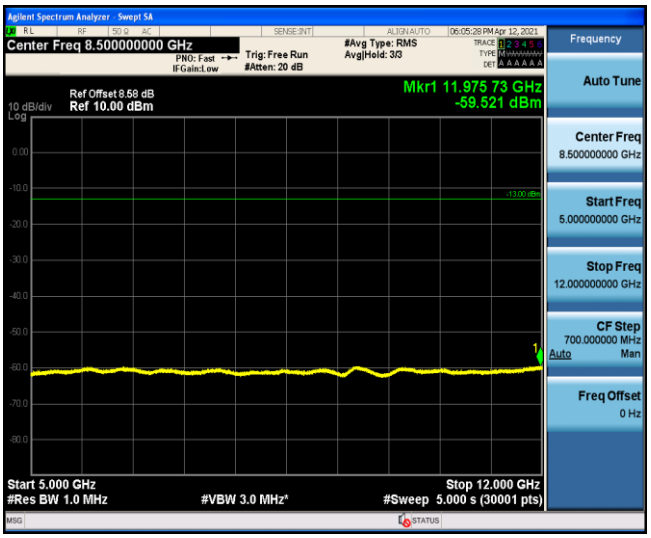


Band5-10MHz-QPSK-20600-1-0-High-0.15-30--42.51-PASS



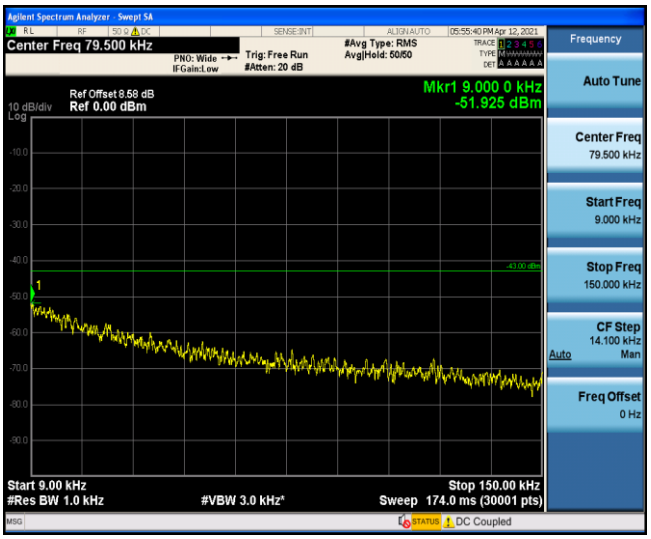
Band5-10MHz-QPSK-20600-1-0-High-30-1000--35.86-PASS

Band5-10MHz-QPSK-20600-1-0-High-1000-5000--42.87-PASS

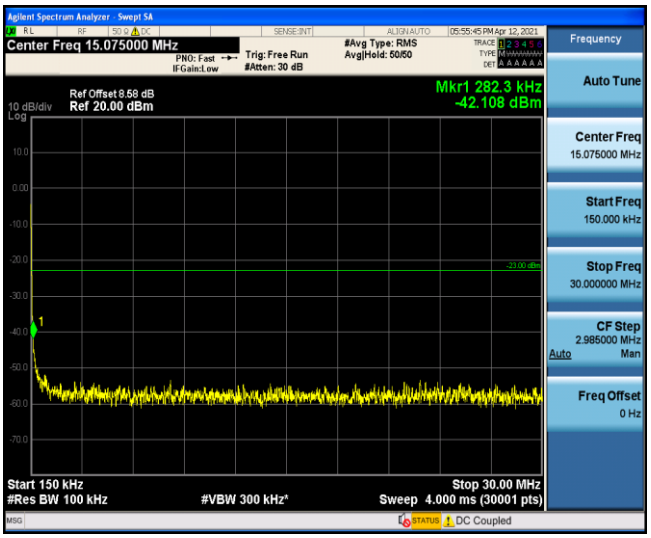


Band5-10MHz-QPSK-20600-1-0-High-5000-12000--59.52-PASS

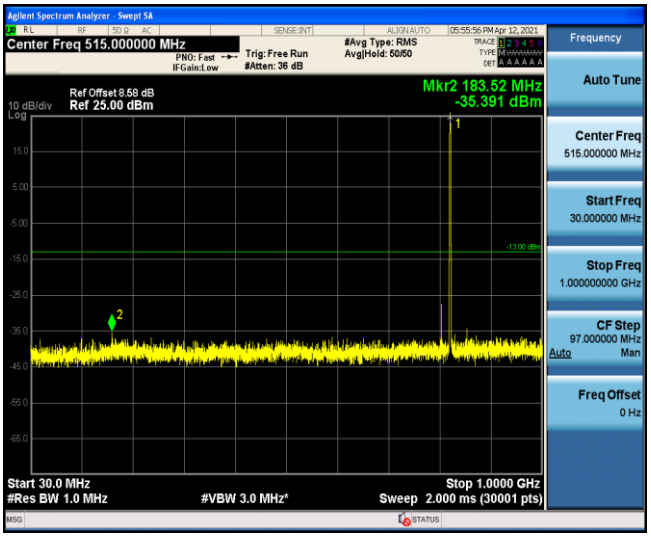
Band5-10MHz-QPSK-20600-1-0-High-12000-26500--50.72-PASS



Band5-10MHz-16QAM-20450-1-0-Low-0.009-0.15--51.93-PASS



Band5-10MHz-16QAM-20450-1-0-Low-0.15-30--42.11-PASS

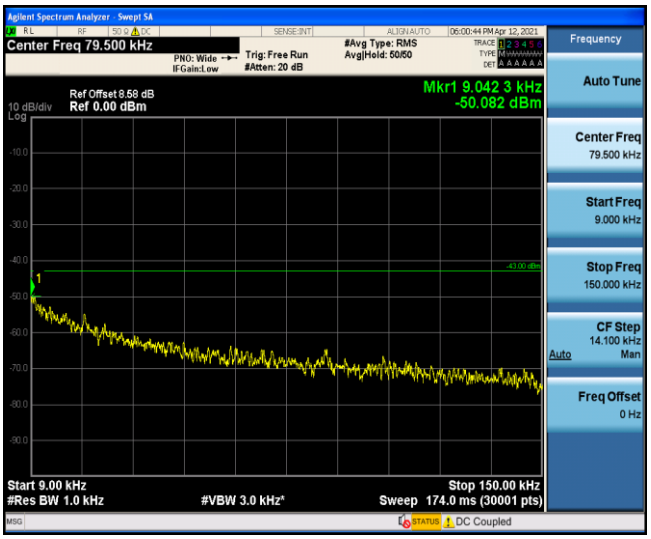


Band5-10MHz-16QAM-20450-1-0-Low-30-1000--35.39-PASS

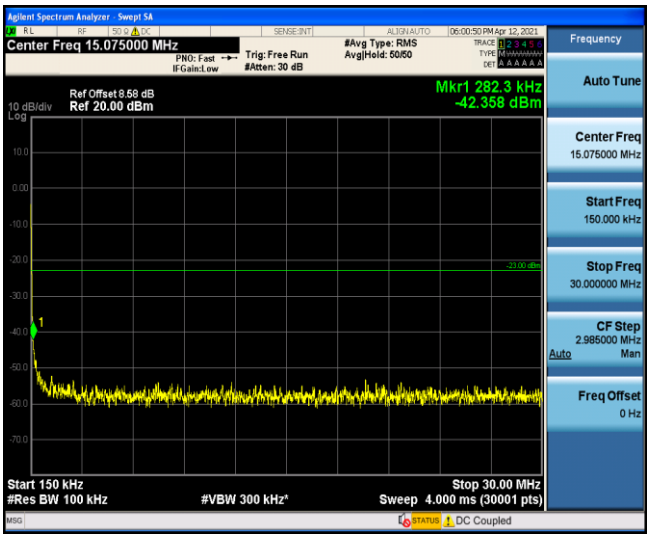
Band5-10MHz-16QAM-20450-1-0-Low-1000-5000--42.53-PASS

Band5-10MHz-16QAM-20450-1-0-Low-5000-12000--59.44-PASS

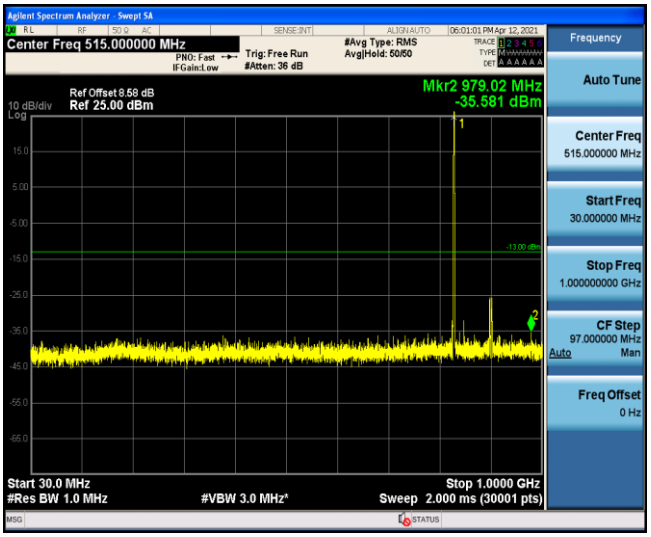
Band5-10MHz-16QAM-20450-1-0-Low-12000-26500--50.72-PASS



Band5-10MHz-16QAM-20525-1-0-Low-0.009-0.15--50.08-PASS



Band5-10MHz-16QAM-20525-1-0-Low-0.15-30--42.36-PASS

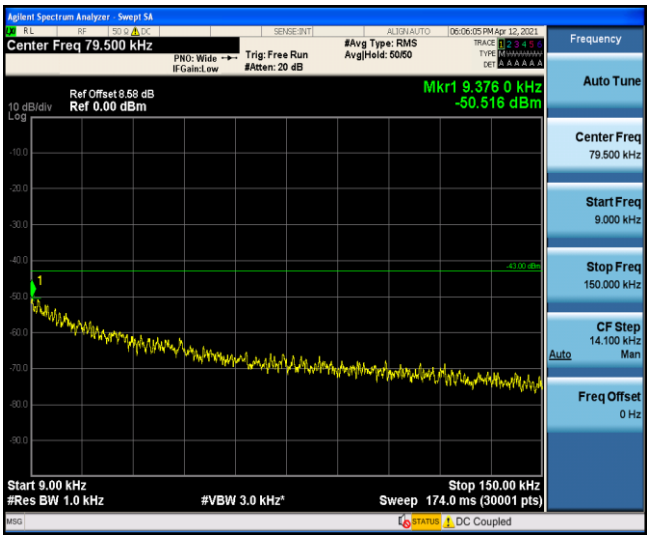


Band5-10MHz-16QAM-20525-1-0-Low-30-1000--35.58-PASS

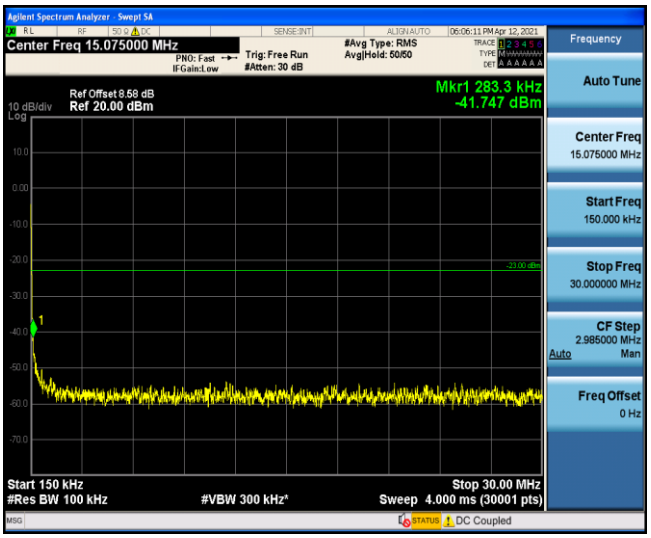
Band5-10MHz-16QAM-20525-1-0-Low-1000-5000--42.98-PASS

Band5-10MHz-16QAM-20525-1-0-Low-5000-12000--59.32-PASS

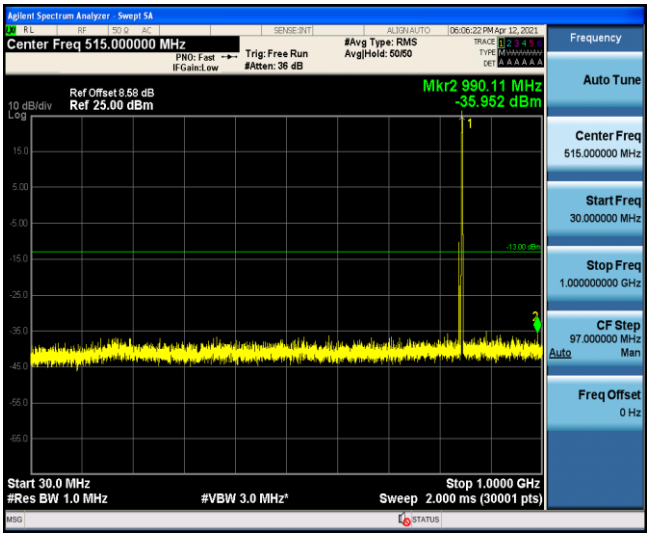
Band5-10MHz-16QAM-20525-1-0-Low-12000-26500--50.84-PASS



Band5-10MHz-16QAM-20600-1-0-High-0.009-0.15--50.52-PASS



Band5-10MHz-16QAM-20600-1-0-High-0.15-30--41.75-PASS



Band5-10MHz-16QAM-20600-1-0-High-30-1000--35.95-PASS

Band5-10MHz-16QAM-20600-1-0-High-1000-5000--42.9-PASS

Band5-10MHz-16QAM-20600-1-0-High-5000-12000--59.33-PASS

Band5-10MHz-16QAM-20600-1-0-High-12000-26500--50.86-PASS

Appendix F: Frequency Stability for M1

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.77	0.003359	± 2.5	PASS
		VN	TN	-1.56	-0.001892	± 2.5	PASS
		VH	TN	-0.32	-0.000388	± 2.5	PASS
	MCH	VL	TN	2.91	0.003479	± 2.5	PASS
		VN	TN	2.47	0.002953	± 2.5	PASS
		VH	TN	-1.36	-0.001626	± 2.5	PASS
	HCH	VL	TN	1.31	0.001544	± 2.5	PASS
		VN	TN	-0.92	-0.001085	± 2.5	PASS
		VH	TN	2.41	0.002841	± 2.5	PASS
16QAM	LCH	VL	TN	-1.51	-0.001831	± 2.5	PASS
		VN	TN	-1.66	-0.002013	± 2.5	PASS
		VH	TN	1.02	0.001237	± 2.5	PASS
	MCH	VL	TN	3.44	0.004112	± 2.5	PASS
		VN	TN	0.68	0.000813	± 2.5	PASS
		VH	TN	1.61	0.001925	± 2.5	PASS
	HCH	VL	TN	2.05	0.002417	± 2.5	PASS
		VN	TN	3.3	0.003890	± 2.5	PASS
		VH	TN	-1.12	-0.001320	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.38	0.000461	± 2.5	PASS
		VN	-20	2.16	0.002619	± 2.5	PASS
		VN	-10	0.1	0.000121	± 2.5	PASS
		VN	0	3.09	0.003747	± 2.5	PASS
		VN	10	3.07	0.003723	± 2.5	PASS
		VN	20	0.26	0.000315	± 2.5	PASS
		VN	30	1.04	0.001261	± 2.5	PASS
		VN	40	3.24	0.003929	± 2.5	PASS
		VN	50	4.94	0.005990	± 2.5	PASS
	MCH	VN	-30	-0.62	-0.000741	± 2.5	PASS

		VN	-20	-1.6	-0.001913	± 2.5	PASS
		VN	-10	0.48	0.000574	± 2.5	PASS
		VN	0	3	0.003586	± 2.5	PASS
		VN	10	-1.23	-0.001470	± 2.5	PASS
		VN	20	2.13	0.002546	± 2.5	PASS
		VN	30	-0.93	-0.001112	± 2.5	PASS
		VN	40	3.52	0.004208	± 2.5	PASS
		VN	50	2.95	0.003527	± 2.5	PASS
	HCH	VN	-30	-1.79	-0.002110	± 2.5	PASS
		VN	-20	-0.47	-0.000554	± 2.5	PASS
		VN	-10	3.1	0.003654	± 2.5	PASS
		VN	0	1.12	0.001320	± 2.5	PASS
		VN	10	4.02	0.004739	± 2.5	PASS
		VN	20	-0.76	-0.000896	± 2.5	PASS
		VN	30	2.51	0.002959	± 2.5	PASS
		VN	40	0.58	0.000684	± 2.5	PASS
		VN	50	1.33	0.001568	± 2.5	PASS
16QAM	LCH	VN	-30	0.5	0.000606	± 2.5	PASS
		VN	-20	2.51	0.003044	± 2.5	PASS
		VN	-10	1.63	0.001976	± 2.5	PASS
		VN	0	2.26	0.002740	± 2.5	PASS
		VN	10	-0.48	-0.000582	± 2.5	PASS
		VN	20	4.56	0.005529	± 2.5	PASS
		VN	30	1.72	0.002086	± 2.5	PASS
		VN	40	-1.65	-0.002001	± 2.5	PASS
		VN	50	3.98	0.004826	± 2.5	PASS
	MCH	VN	-30	-1.78	-0.002098	± 2.5	PASS
		VN	-20	1.32	0.001556	± 2.5	PASS
		VN	-10	-1.95	-0.002299	± 2.5	PASS
		VN	0	2.62	0.003089	± 2.5	PASS
		VN	10	0.4	0.000472	± 2.5	PASS
		VN	20	4.44	0.005234	± 2.5	PASS
		VN	30	-1.44	-0.001698	± 2.5	PASS
		VN	40	-0.09	-0.000106	± 2.5	PASS
		VN	50	0.53	0.000625	± 2.5	PASS
	HCH	VN	-30	4.92	0.005800	± 2.5	PASS
		VN	-20	0.07	0.000083	± 2.5	PASS
		VN	-10	0.91	0.001073	± 2.5	PASS
		VN	0	3.34	0.003937	± 2.5	PASS
		VN	10	0.21	0.000248	± 2.5	PASS
		VN	20	-1.23	-0.001450	± 2.5	PASS