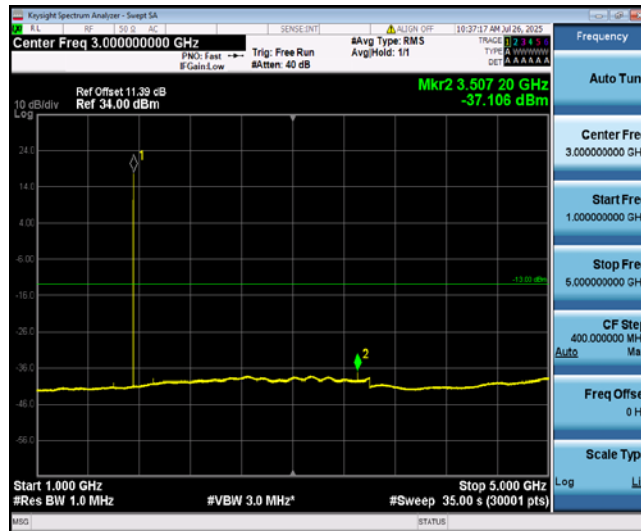
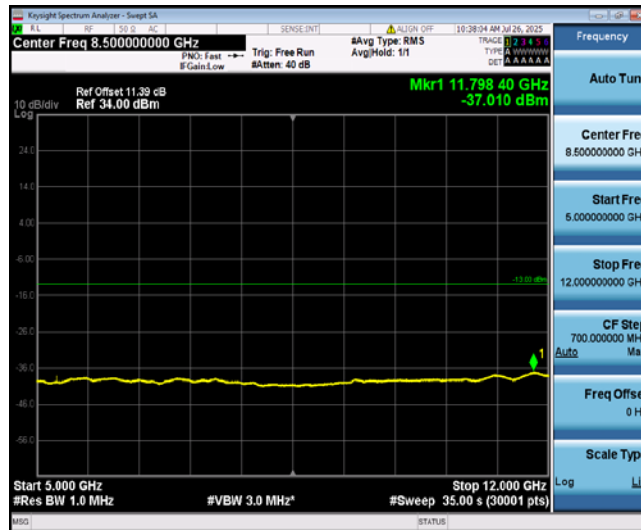




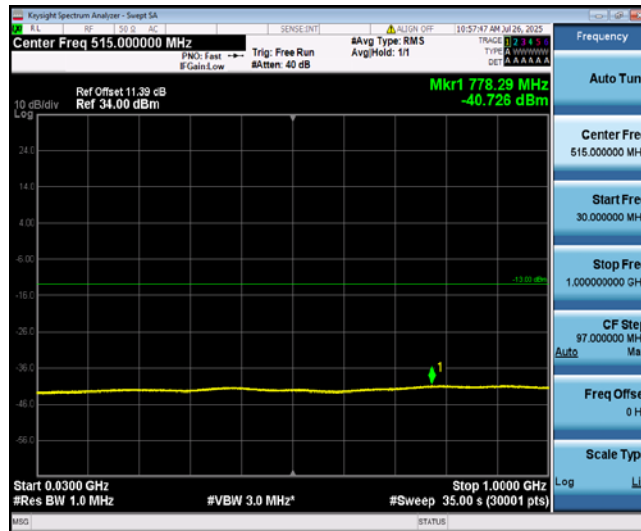
Band4-5MHz-16QAM-20375-1-0-High-1000-5000--37.11-PASS



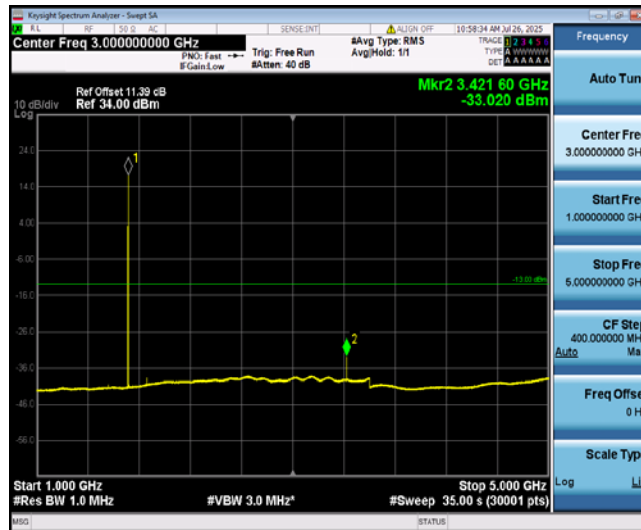
Band4-5MHz-16QAM-20375-1-0-High-5000-12000--37.01-PASS



Band4-5MHz-16QAM-20375-1-0-High-12000-26500--24.88-PASS



Band4-10MHz-QPSK-20000-1-0-Low-30-1000--40.73-PASS



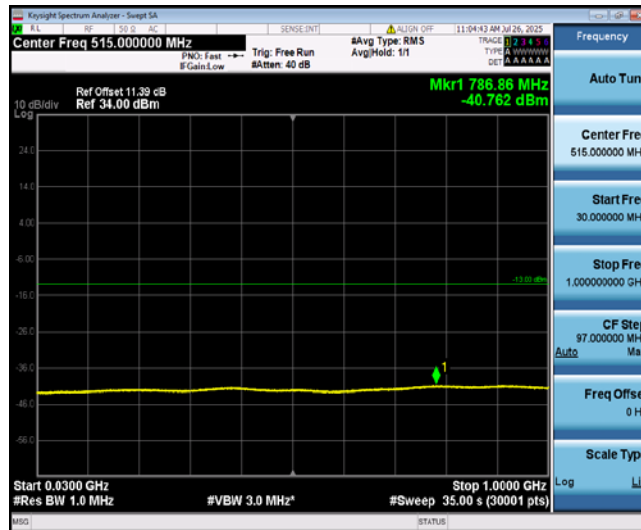
Band4-10MHz-QPSK-20000-1-0-Low-1000-5000--33.02-PASS



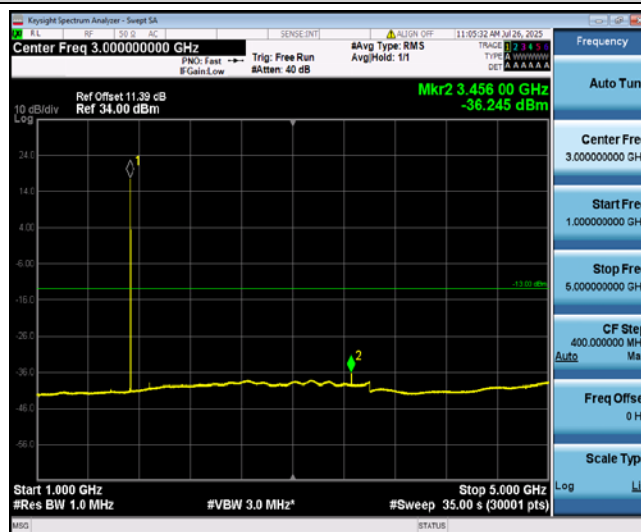
Band4-10MHz-QPSK-20000-1-0-Low-5000-12000--36.96-PASS



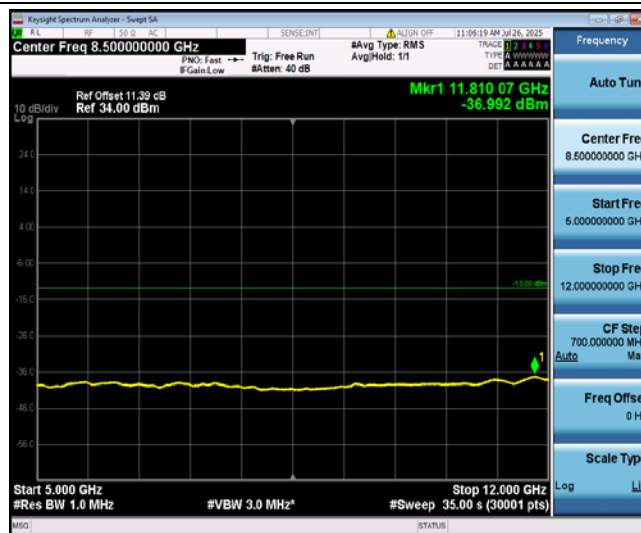
Band4-10MHz-QPSK-20000-1-0-Low-12000-26500--24.95-PASS



Band4-10MHz-QPSK-20175-1-0-Low-30-1000--40.76-PASS



Band4-10MHz-QPSK-20175-1-0-Low-1000-5000--36.25-PASS



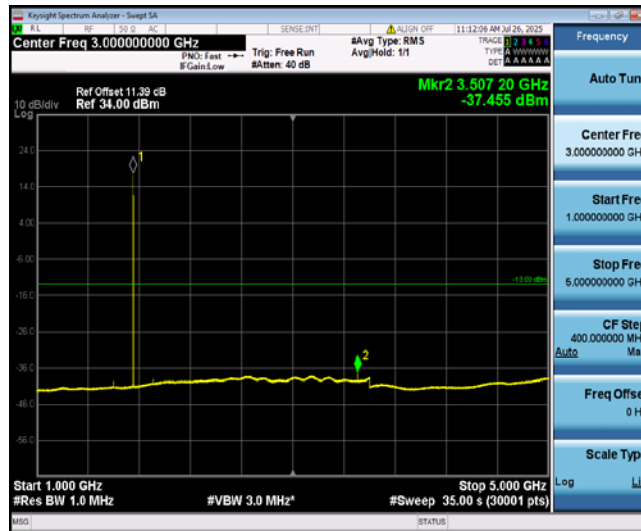
Band4-10MHz-QPSK-20175-1-0-Low-5000-12000--36.99-PASS



Band4-10MHz-QPSK-20175-1-0-Low-12000-26500--24.92-PASS



Band4-10MHz-QPSK-20350-1-0-High-30-1000--40.7-PASS



Band4-10MHz-QPSK-20350-1-0-High-1000-5000--37.46-PASS



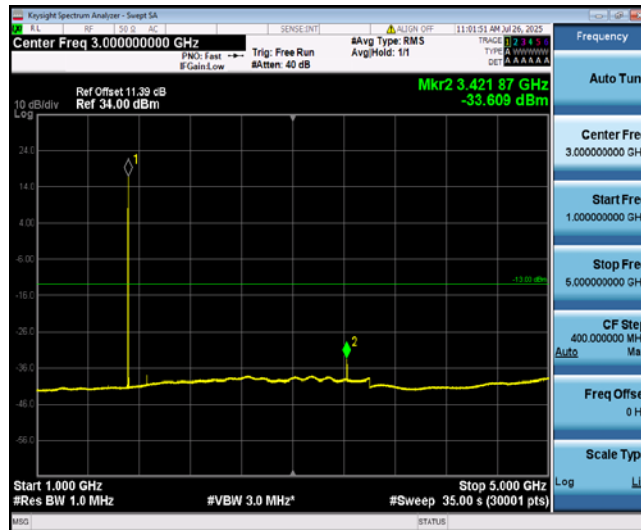
Band4-10MHz-QPSK-20350-1-0-High-5000-12000--37-PASS



Band4-10MHz-QPSK-20350-1-0-High-12000-26500--24.85-PASS



Band4-10MHz-16QAM-20000-1-0-Low-30-1000--40.68-PASS



Band4-10MHz-16QAM-20000-1-0-Low-1000-5000--33.61-PASS



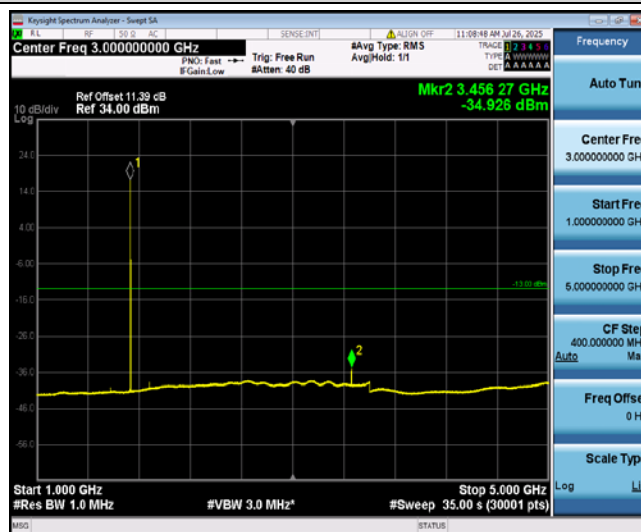
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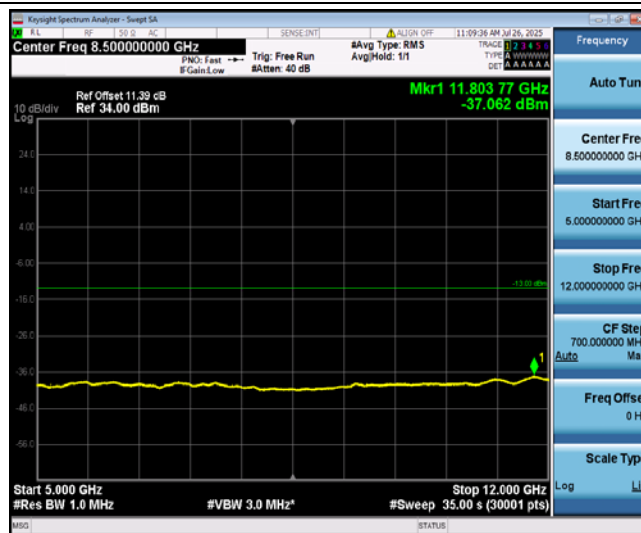
Band4-10MHz-16QAM-20000-1-0-Low-12000-26500--24.88-PASS



Band4-10MHz-16QAM-20175-1-0-Low-30-1000--40.69-PASS



Band4-10MHz-16QAM-20175-1-0-Low-1000-5000--34.93-PASS



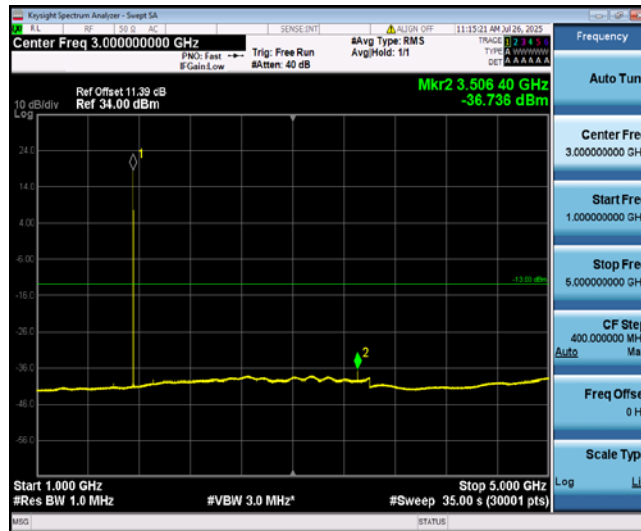
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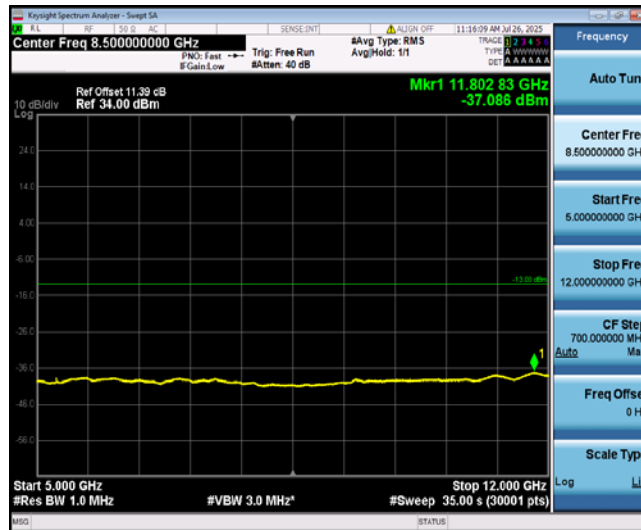
Band4-10MHz-16QAM-20175-1-0-Low-12000-26500--25-PASS



Band4-10MHz-16QAM-20350-1-0-High-30-1000--40.72-PASS



Band4-10MHz-16QAM-20350-1-0-High-1000-5000--36.74-PASS



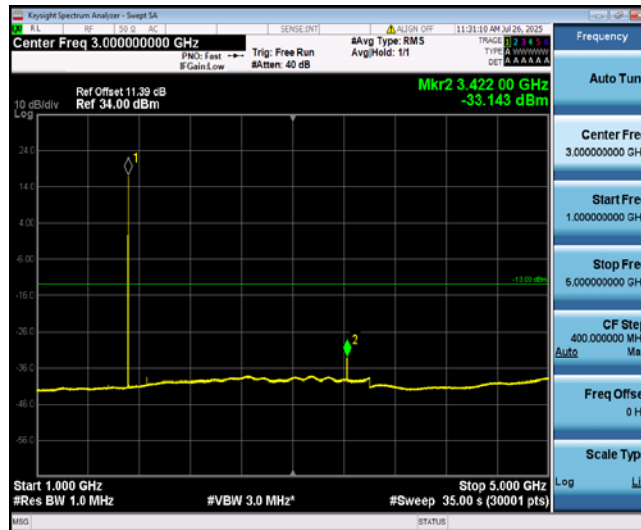
Band4-10MHz-16QAM-20350-1-0-High-5000-12000--37.09-PASS



Band4-10MHz-16QAM-20350-1-0-High-12000-26500--24.93-PASS



Band4-15MHz-QPSK-2025-1-0-Low-30-1000--40.69-PASS



Band4-15MHz-QPSK-2025-1-0-Low-1000-5000--33.14-PASS



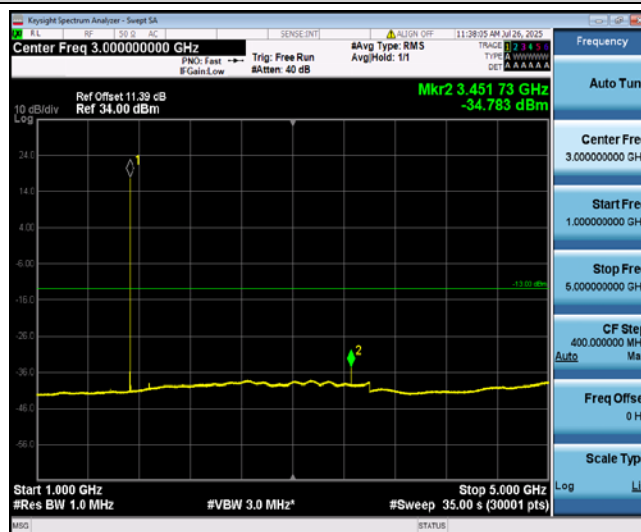
Band4-15MHz-QPSK-2025-1-0-Low-5000-12000--37-PASS



Band4-15MHz-QPSK-20025-1-0-Low-12000-26500--24.96-PASS



Band4-15MHz-QPSK-20175-1-0-Low-30-1000--40.71-PASS



Band4-15MHz-QPSK-20175-1-0-Low-1000-5000--34.78-PASS



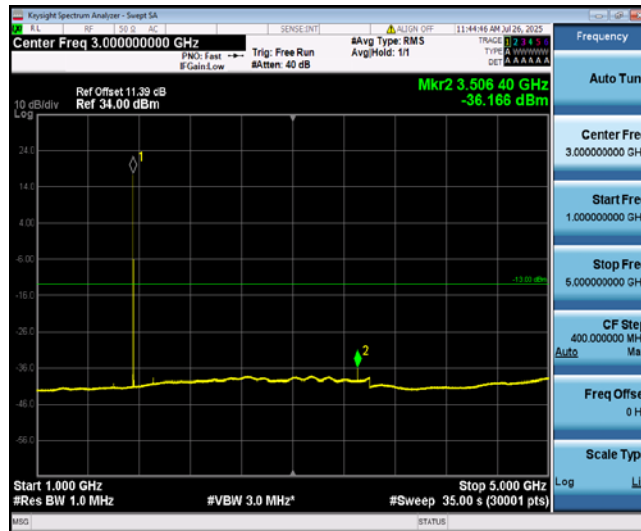
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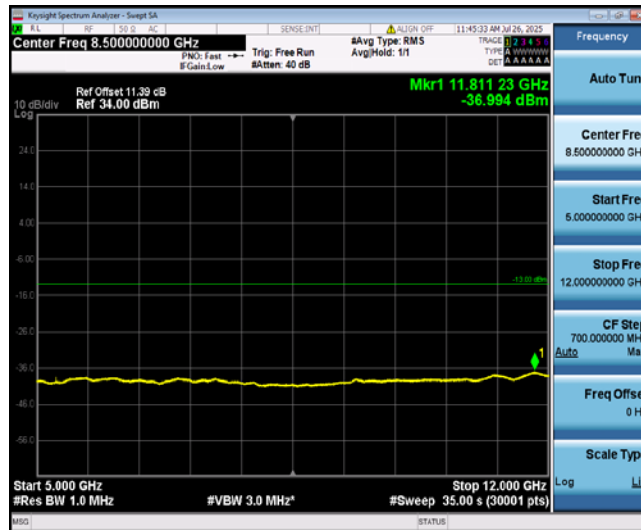
Band4-15MHz-QPSK-20175-1-0-Low-12000-26500--24.92-PASS



Band4-15MHz-QPSK-20325-1-0-High-30-1000--40.76-PASS



Band4-15MHz-QPSK-20325-1-0-High-1000-5000--36.17-PASS



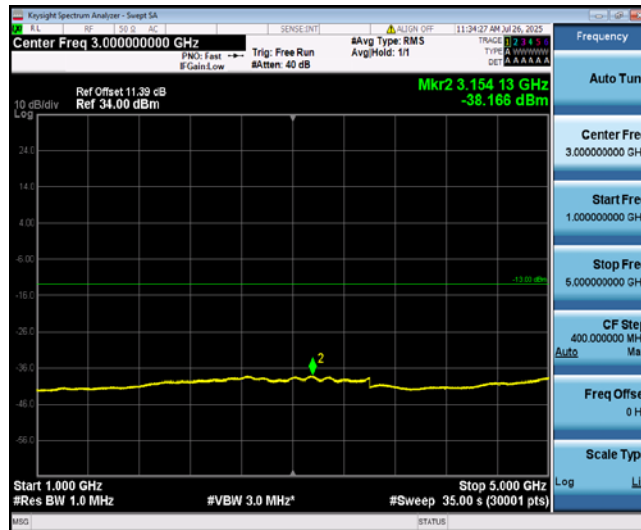
Band4-15MHz-QPSK-20325-1-0-High-5000-12000--36.99-PASS



Band4-15MHz-QPSK-20325-1-0-High-12000-26500--24.95-PASS



Band4-15MHz-16QAM-20025-1-0-Low-30-1000--40.76-PASS



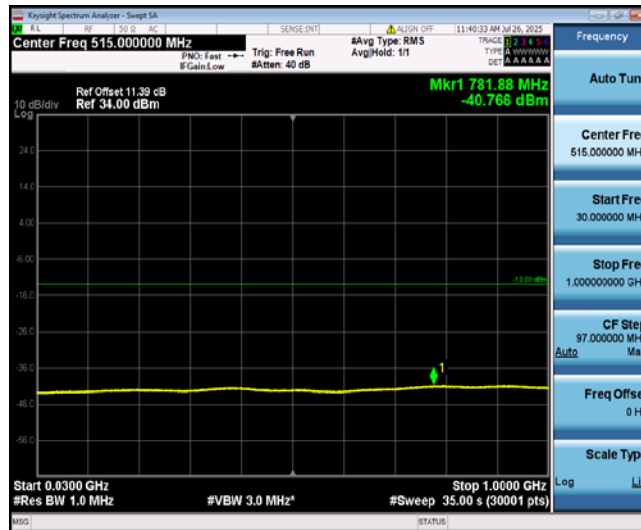
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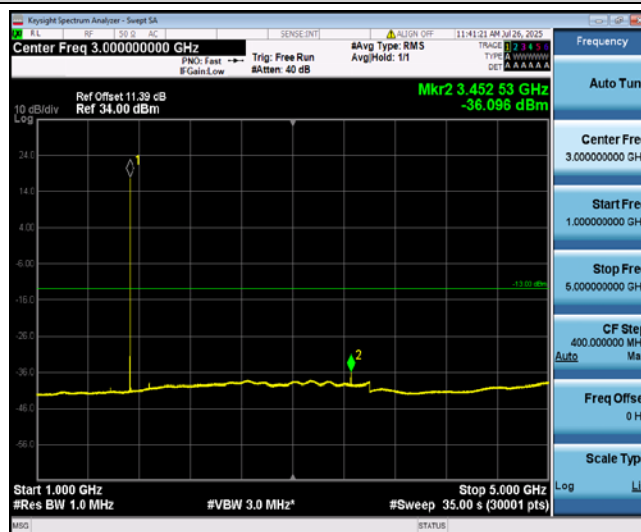
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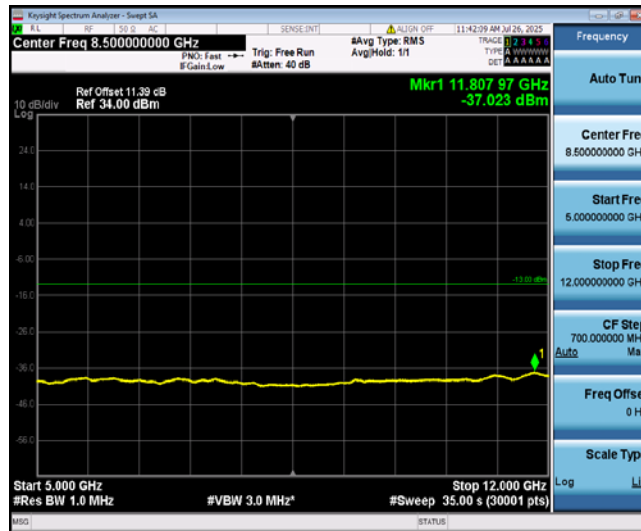
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Band4-15MHz-16QAM-20175-1-0-Low-30-1000--40.77-PASS



Band4-15MHz-16QAM-20175-1-0-Low-1000-5000--36.1-PASS



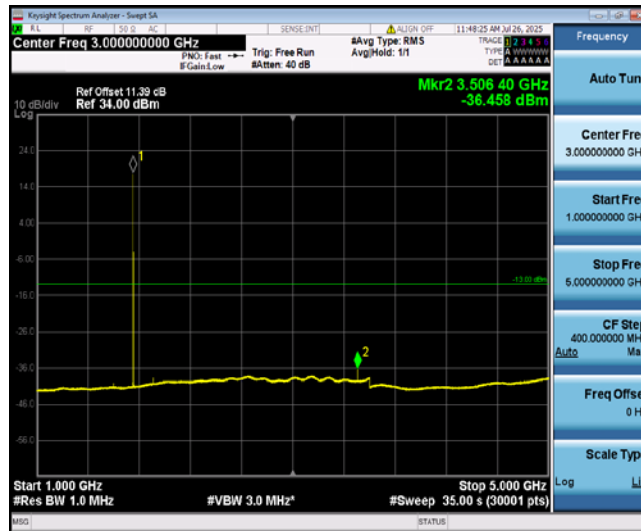
Band4-15MHz-16QAM-20175-1-0-Low-5000-12000--37.02-PASS



Band4-15MHz-16QAM-20175-1-0-Low-12000-26500--24.87-PASS



Band4-15MHz-16QAM-20325-1-0-High-30-1000--40.74-PASS



Band4-15MHz-16QAM-20325-1-0-High-1000-5000--36.46-PASS



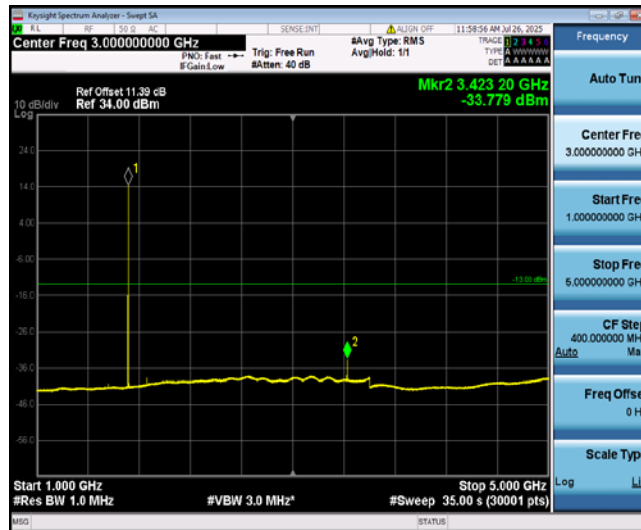
Band4-15MHz-16QAM-20325-1-0-High-5000-12000--37.04-PASS



Band4-15MHz-16QAM-20325-1-0-High-12000-26500--24.95-PASS



Band4-20MHz-QPSK-20050-1-0-Low-30-1000--40.67-PASS



Band4-20MHz-QPSK-20050-1-0-Low-1000-5000--33.78-PASS



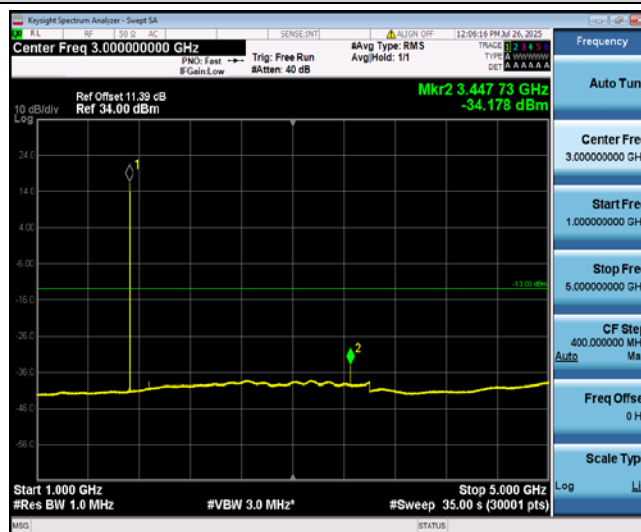
Band4-20MHz-QPSK-20050-1-0-Low-5000-12000--37.06-PASS



Band4-20MHz-QPSK-20050-1-0-Low-12000-26500--24.8-PASS



Band4-20MHz-QPSK-20175-1-0-Low-30-1000--40.73-PASS



Band4-20MHz-QPSK-20175-1-0-Low-1000-5000--34.18-PASS



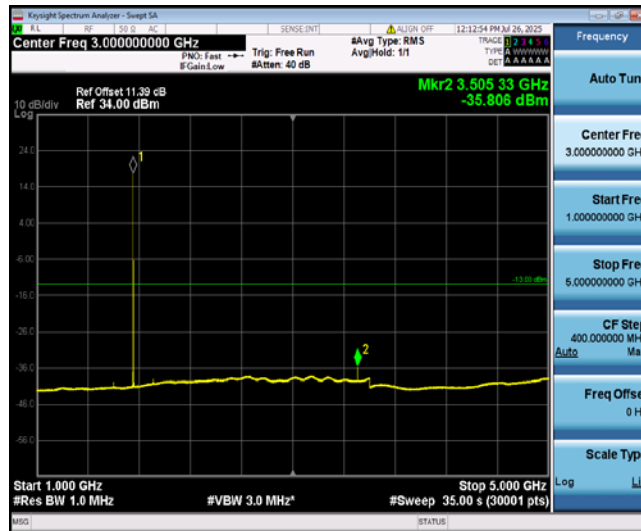
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Band4-20MHz-QPSK-20175-1-0-Low-12000-26500--24.84-PASS



Band4-20MHz-QPSK-20300-1-0-High-30-1000--40.74-PASS



Band4-20MHz-QPSK-20300-1-0-High-1000-5000--35.81-PASS



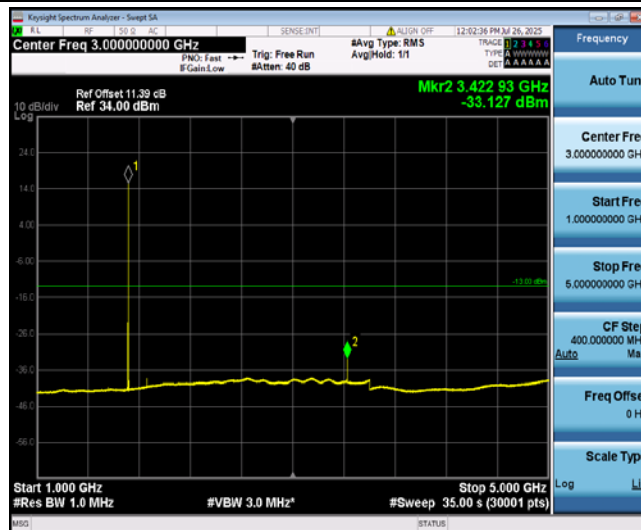
Band4-20MHz-QPSK-20300-1-0-High-5000-12000--37.01-PASS



Band4-20MHz-QPSK-20300-1-0-High-12000-26500--24.96-PASS



Band4-20MHz-16QAM-20050-1-0-Low-30-1000--40.66-PASS



Band4-20MHz-16QAM-20050-1-0-Low-1000-5000--33.13-PASS



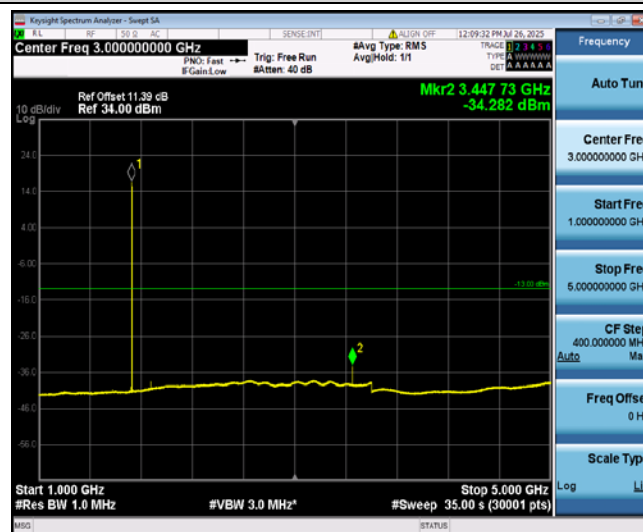
Band4-20MHz-16QAM-20050-1-0-Low-5000-12000--37.01-PASS



Band4-20MHz-16QAM-20050-1-0-Low-12000-26500--24.97-PASS



Band4-20MHz-16QAM-20175-1-0-Low-30-1000--40.74-PASS



Band4-20MHz-16QAM-20175-1-0-Low-1000-5000--34.28-PASS



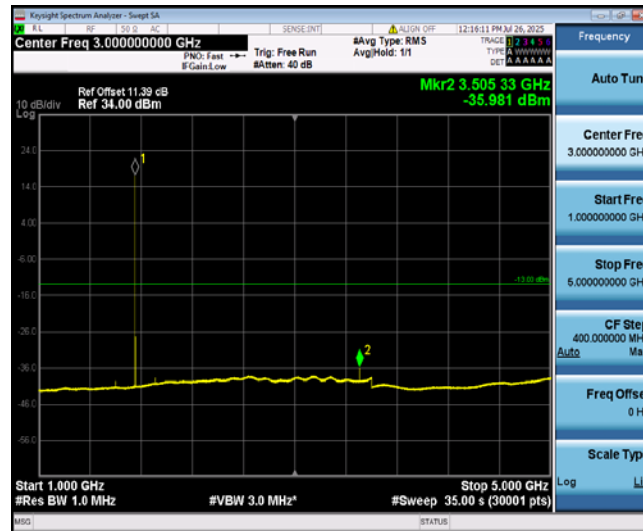
Band4-20MHz-16QAM-20175-1-0-Low-5000-12000--37.01-PASS



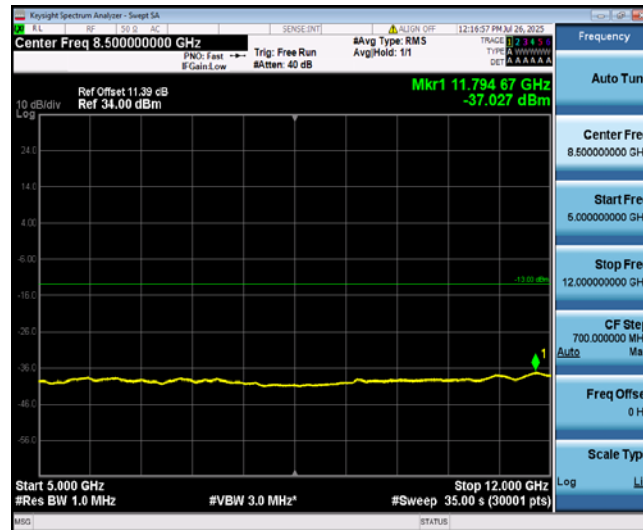
Band4-20MHz-16QAM-20175-1-0-Low-12000-26500--24.93-PASS



Band4-20MHz-16QAM-20300-1-0-High-30-1000--40.75-PASS



Band4-20MHz-16QAM-20300-1-0-High-1000-5000--35.98-PASS



Band4-20MHz-16QAM-20300-1-0-High-5000-12000--37.03-PASS



Band4-20MHz-16QAM-20300-1-0-High-12000-26500--24.95-PASS

Appendix F: Frequency stability

Frequency Error VS. Voltage

Test Band	Test mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band4	QPSK/ 20MHz	LCH	TN	VL	-0.17	-0.0001	PASS
				VN	0.76	0.0004	PASS
				VH	1.88	0.0011	PASS
		MCH	TN	VL	1.59	0.0009	PASS
				VN	1.54	0.0009	PASS
				VH	1.96	0.0011	PASS
		HCH	TN	VL	1.88	0.0011	PASS
				VN	1.82	0.0010	PASS
				VH	1.48	0.0008	PASS
	16QAM/ 20MHz	LCH	TN	VL	-0.11	-0.0001	PASS
				VN	1.2	0.0007	PASS
				VH	0.92	0.0005	PASS
		MCH	TN	VL	1.21	0.0007	PASS
				VN	1.31	0.0008	PASS
				VH	-1.68	-0.0010	PASS
		HCH	TN	VL	1.09	0.0006	PASS
				VN	1.03	0.0006	PASS
				VH	0.82	0.0005	PASS

Frequency Error VS. Temperature

Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band4	QPSK/ 20MHz	LCH	VN	-30	0.36	0.0002	PASS
				-20	0.86	0.0005	PASS
				-10	-0.01	-0.0000	PASS
				0	-2.38	-0.0014	PASS
				10	1.07	0.0006	PASS
				20	0.94	0.0005	PASS
				30	1.48	0.0009	PASS
				40	0.99	0.0006	PASS
				50	1.14	0.0007	PASS
		MCH	VN	-30	-0.6	-0.0003	PASS
				-20	-1.14	-0.0007	PASS
				-10	-0.28	-0.0002	PASS
				0	-0.74	-0.0004	PASS
				10	0.02	0.0000	PASS
				20	-1.4	-0.0008	PASS
				30	-0.28	-0.0002	PASS
				40	0.07	0.0000	PASS
				50	0.02	0.0000	PASS
		HCH	VN	-30	-1.08	-0.0006	PASS
				-20	-1.09	-0.0006	PASS
				-10	1.56	0.0009	PASS
				0	0.4	0.0002	PASS
				10	0.16	0.0001	PASS
				20	1.68	0.0010	PASS
				30	1.02	0.0006	PASS
				40	0.37	0.0002	PASS
				50	-1.54	-0.0009	PASS

Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band4	16QAM/ 20MHz	LCH	VN	-30	-0.49	-0.0003	PASS
				-20	-0.5	-0.0003	PASS
				-10	0.71	0.0004	PASS
				0	-1.72	-0.0010	PASS
				10	0.7	0.0004	PASS
				20	0.53	0.0003	PASS
				30	1.13	0.0007	PASS
				40	0.36	0.0002	PASS
				50	0.55	0.0003	PASS
		MCH	VN	-30	1.15	0.0007	PASS
				-20	1.14	0.0007	PASS
				-10	-0.64	-0.0004	PASS
				0	-1.11	-0.0006	PASS
				10	-0.18	-0.0001	PASS
				20	1.4	0.0008	PASS
				30	2.48	0.0014	PASS
				40	1.2	0.0007	PASS
				50	1.92	0.0011	PASS
		HCH	VN	-30	-1.09	-0.0006	PASS
				-20	-1.08	-0.0006	PASS
				-10	-0.98	-0.0006	PASS
				0	1.52	0.0009	PASS
				10	1.67	0.0010	PASS
				20	-0.94	-0.0005	PASS
				30	-1.09	-0.0006	PASS
				40	1.91	0.0011	PASS
				50	-1.5	-0.0009	PASS

- End of the Appendix -