

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Gain(dBi)	EIRP/ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.08	3.26	24.19	34.8	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.27	3.26	23.38	34.8	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.25	3.26	24.36	34.8	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.21	3.26	24.32	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.22	3.26	24.33	34.8	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.33	3.26	23.44	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.51	3.26	24.62	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.35	3.26	24.46	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.24	3.26	24.35	34.8	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.36	3.26	23.47	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.58	3.26	24.69	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.24	3.26	24.35	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.32	3.26	23.43	34.8	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.27	3.26	22.38	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.28	3.26	23.39	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.37	3.26	23.48	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.3	3.26	23.41	34.8	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.45	3.26	22.56	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.9	3.26	24.01	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.32	3.26	23.43	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.8	3.26	23.91	34.8	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.58	3.26	22.69	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.17	3.26	23.28	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.76	3.26	23.87	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.14	3.26	24.25	34.8	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.4	3.26	23.51	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.11	3.26	24.22	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.4	3.26	24.51	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.55	3.26	24.66	34.8	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.4	3.26	23.51	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.5	3.26	24.61	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.52	3.26	24.63	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.51	3.26	24.62	34.8	PASS

Band12	3MHz	QPSK	23165	15RB#0	22.47	3.26	23.58	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.34	3.26	24.45	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.64	3.26	24.75	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.15	3.26	23.26	34.8	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.43	3.26	22.54	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.21	3.26	23.32	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.31	3.26	23.42	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.3	3.26	23.41	34.8	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.32	3.26	22.43	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.15	3.26	23.26	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.17	3.26	23.28	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.56	3.26	23.67	34.8	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.43	3.26	22.54	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.71	3.26	23.82	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.56	3.26	23.67	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.13	3.26	24.24	34.8	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.32	3.26	23.43	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.32	3.26	24.43	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.23	3.26	24.34	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.38	3.26	24.49	34.8	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.38	3.26	23.49	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.4	3.26	24.51	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.23	3.26	24.34	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.22	3.26	24.33	34.8	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.37	3.26	23.48	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.35	3.26	24.46	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.15	3.26	24.26	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#0	22	3.26	23.11	34.8	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.45	3.26	22.56	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.27	3.26	23.38	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.27	3.26	23.38	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.37	3.26	23.48	34.8	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.28	3.26	22.39	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.48	3.26	23.59	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.41	3.26	23.52	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.27	3.26	23.38	34.8	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.29	3.26	22.4	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.48	3.26	23.59	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.21	3.26	23.32	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.93	3.26	24.04	34.8	PASS

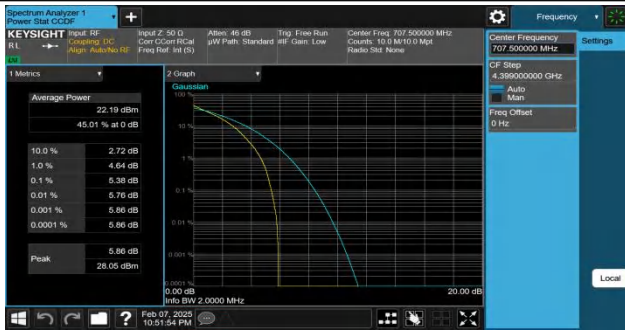
Band12	10MHz	QPSK	23060	50RB#0	22.33	3.26	23.44	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.56	3.26	24.67	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.17	3.26	24.28	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.03	3.26	24.14	34.8	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.36	3.26	23.47	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.48	3.26	24.59	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.25	3.26	24.36	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.34	3.26	24.45	34.8	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.4	3.26	23.51	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.76	3.26	24.87	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.12	3.26	24.23	34.8	PASS
Band12	10MHz	16QAM	23060	27RB#0	21.35	3.26	22.46	34.8	PASS
Band12	10MHz	16QAM	23095	27RB#0	21.42	3.26	22.53	34.8	PASS
Band12	10MHz	16QAM	23130	27RB#0	21.53	3.26	22.64	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.15	3.26	23.26	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.49	3.26	23.6	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.49	3.26	23.6	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.12	3.26	23.23	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.65	3.26	23.76	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.4	3.26	23.51	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.78	3.26	23.89	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.41	3.26	24.52	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.67	3.26	23.78	34.8	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	5.38	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.27	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.36	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.32	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.27	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.18	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.27	13	PASS
Band12	10MHz	16QAM	23095	27RB#0	6.03	13	PASS

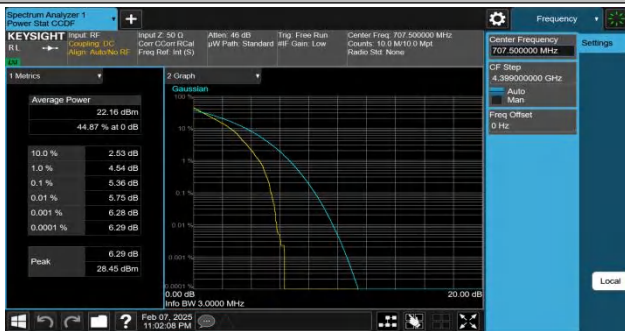
Test Graphs



Band12-1.4MHz-QPSK-23095-6RB#0-PASS



Band12-1.4MHz-16QAM-23095-6RB#0-PASS



Band12-3MHz-QPSK-23095-15RB#0-PASS



Band12-3MHz-16QAM-23095-15RB#0-PASS



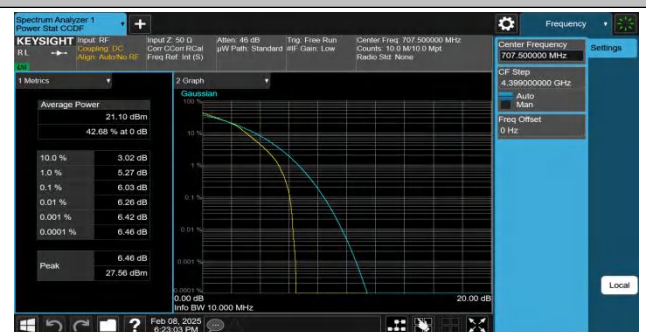
Band12-5MHz-QPSK-23095-25RB#0-PASS



Band12-5MHz-16QAM-23095-25RB#0-PASS



Band12-10MHz-QPSK-23095-50RB#0-PASS



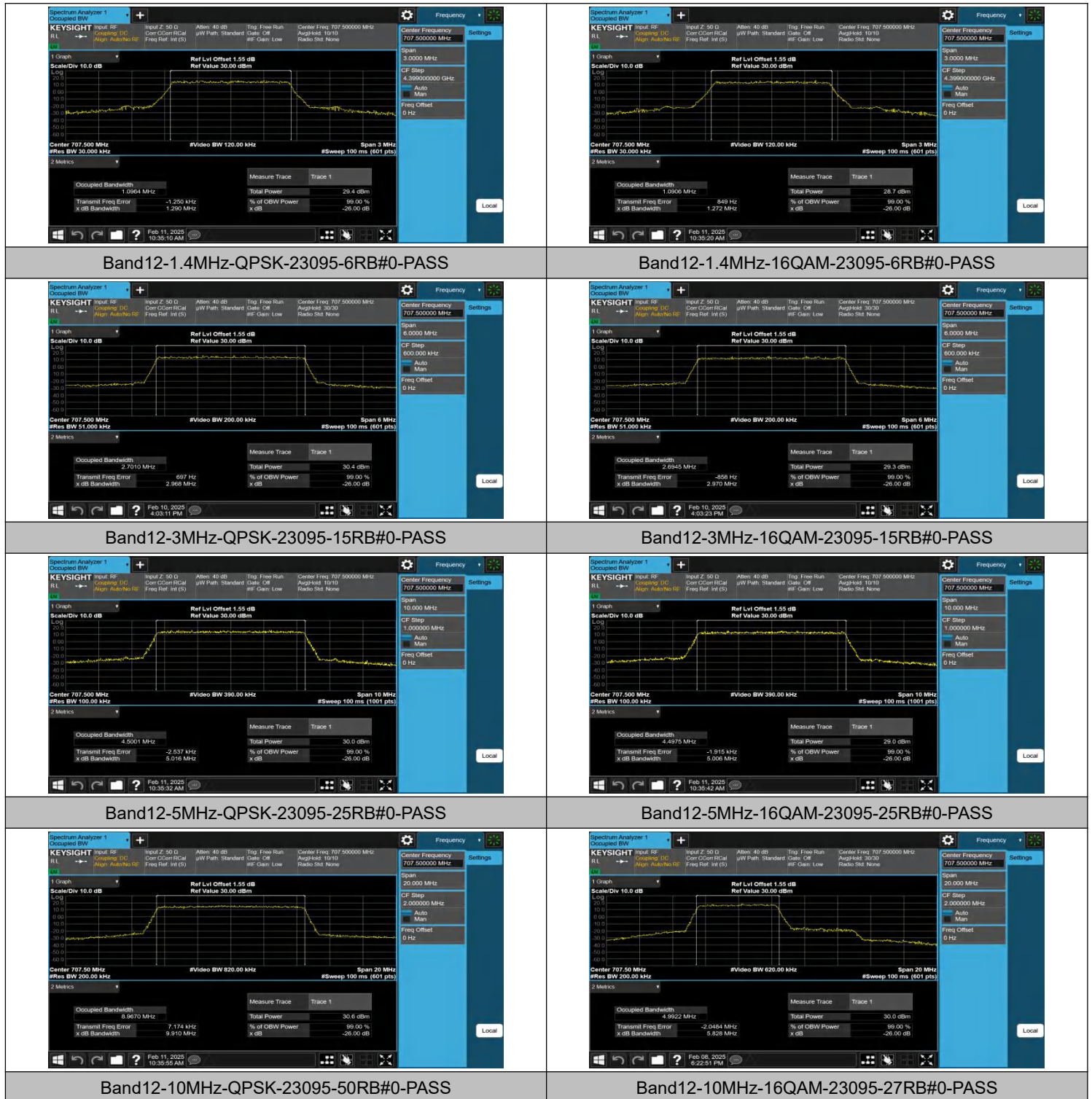
Band12-10MHz-16QAM-23095-27RB#0-PASS

26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	1.0964	1.290	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0906	1.272	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7010	2.968	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6945	2.970	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5001	5.016	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4975	5.006	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9670	9.910	PASS
Band12	10MHz	16QAM	23095	27RB#0	4.9922	5.828	PASS

Test Graphs



Band Edge

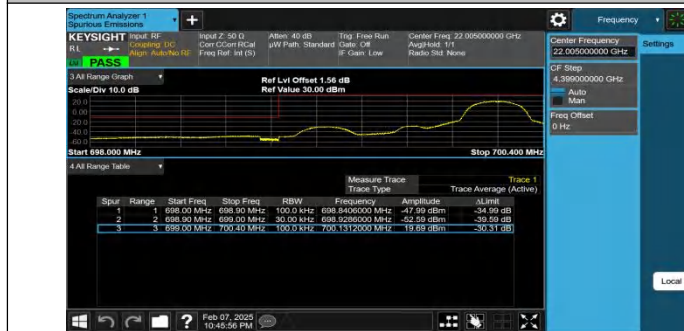
Test Graphs



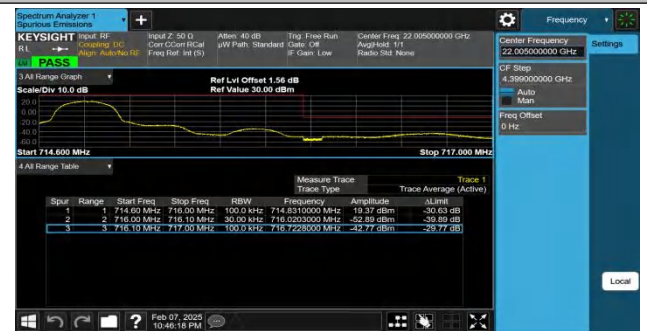
Band12-1.4MHz-QPSK-23017-1RB#0-PASS



Band12-1.4MHz-QPSK-23017-6RB#0-PASS



Band12-1.4MHz-QPSK-23017-1RB#5-PASS



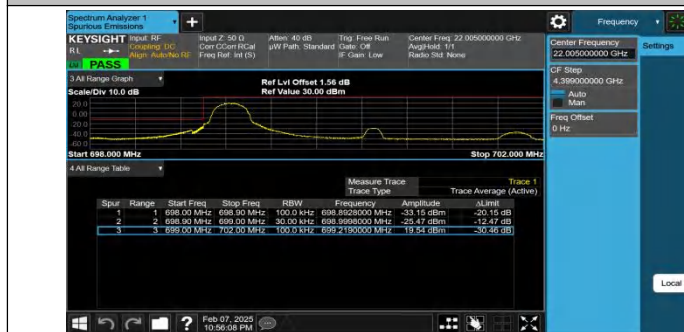
Band12-1.4MHz-QPSK-23173-1RB#0-PASS



Band12-1.4MHz-QPSK-23017-1RB#5-PASS



Band12-1.4MHz-QPSK-23173-1RB#0-PASS



Band12-3MHz-QPSK-23025-1RB#0-PASS



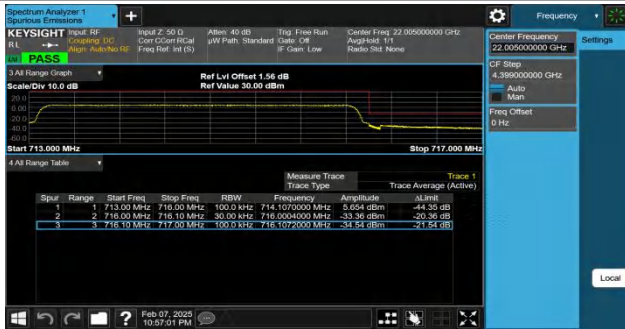
Band12-3MHz-QPSK-23025-15RB#0-PASS



Band12-3MHz-QPSK-23025-1RB#14-PASS



Band12-3MHz-QPSK-23165-1RB#0-PASS



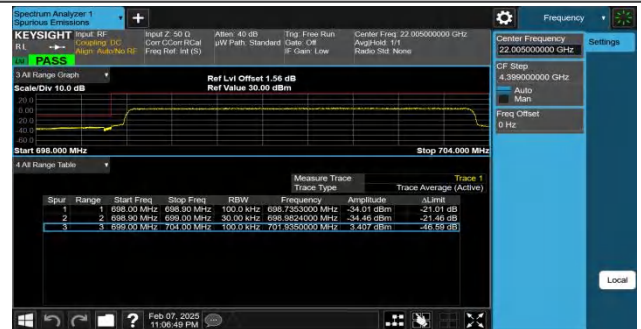
Band12-3MHz-QPSK-23165-15RB#0-PASS



Band12-3MHz-QPSK-23165-1RB#14-PASS



Band12-5MHz-QPSK-23035-1RB#0-PASS



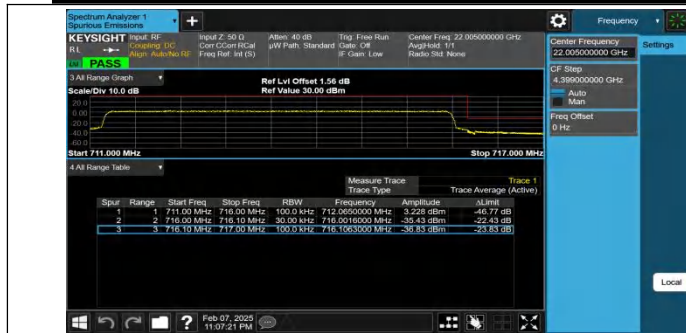
Band12-5MHz-QPSK-23035-25RB#0-PASS



Band12-5MHz-QPSK-23035-1RB#24-PASS



Band12-5MHz-QPSK-23155-1RB#0-PASS



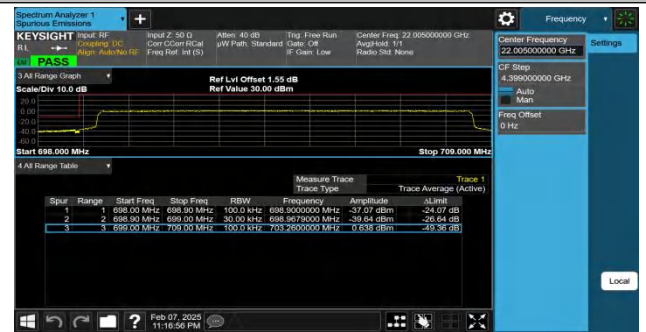
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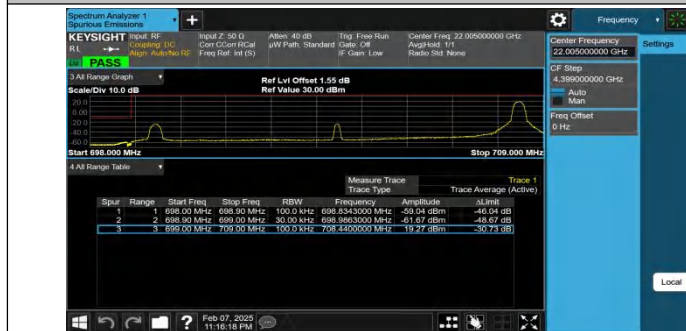
Band12-5MHz-QPSK-23155-1RB#24-PASS



Band12-10MHz-QPSK-23060-1RB#0-PASS



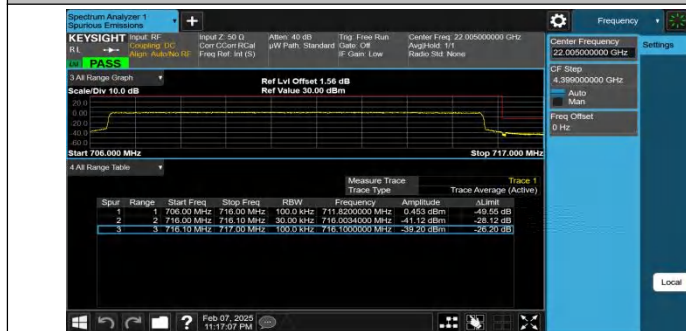
Band12-10MHz-QPSK-23060-50RB#0-PASS



Band12-10MHz-QPSK-23060-1RB#49-PASS



Band12-10MHz-QPSK-23130-1RB#0-PASS



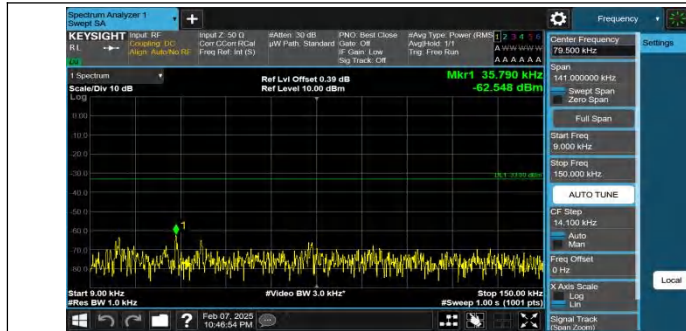
Band12-10MHz-QPSK-23130-50RB#0-PASS



Band12-10MHz-QPSK-23130-1RB#49-PASS

Conducted Spurious Emission

Test Graphs



Band12-1.4MHz-QPSK-23017-1RB#0-0.009~0.15-PASS



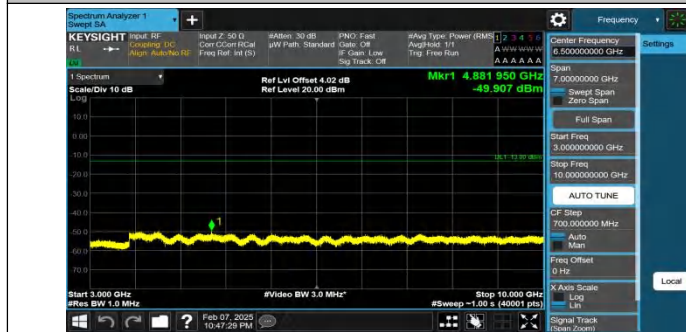
Band12-1.4MHz-QPSK-23017-1RB#0-0.15~30-PASS



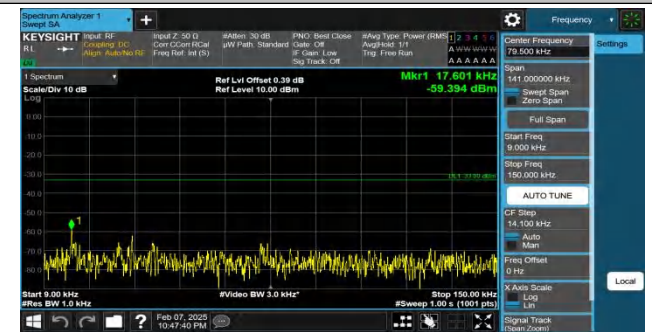
Band12-1.4MHz-QPSK-23017-1RB#0-30~1000-PASS



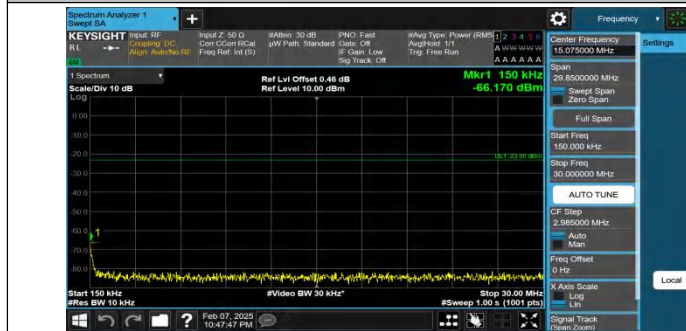
Band12-1.4MHz-QPSK-23017-1RB#0-1000~3000-PASS



Band12-1.4MHz-QPSK-23017-1RB#0-3000~10000-PASS



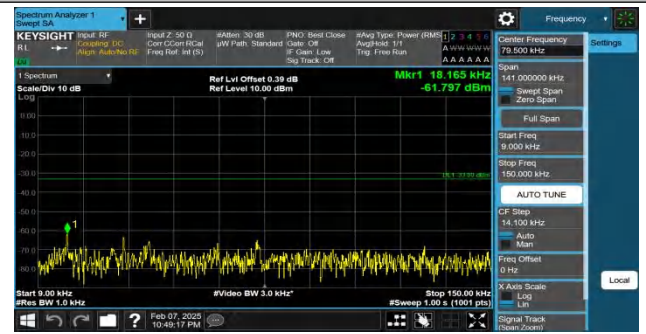
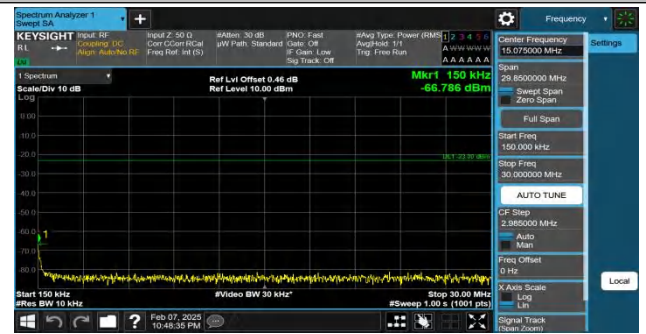
Band12-1.4MHz-QPSK-23017-1RB#5-0.009~0.15-PASS

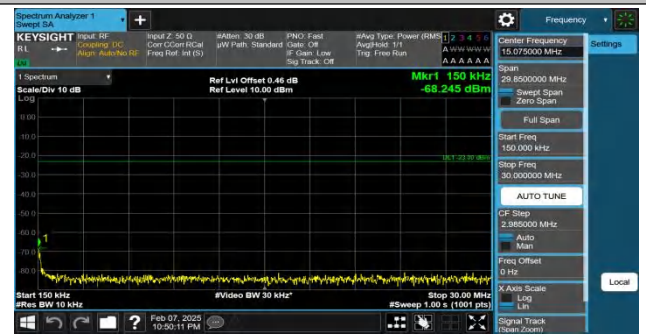
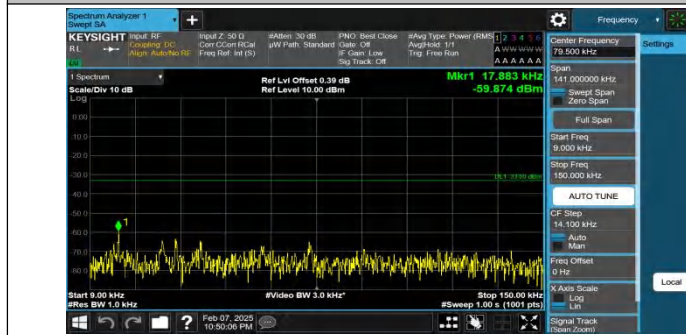
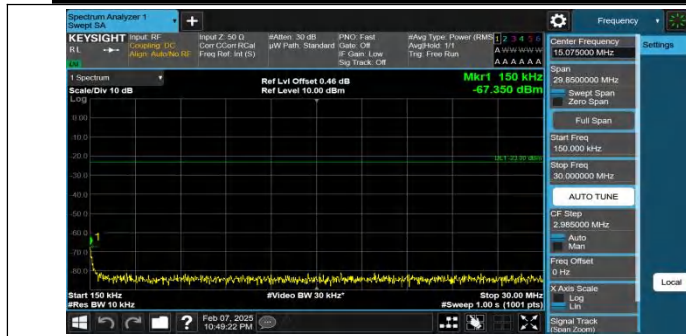


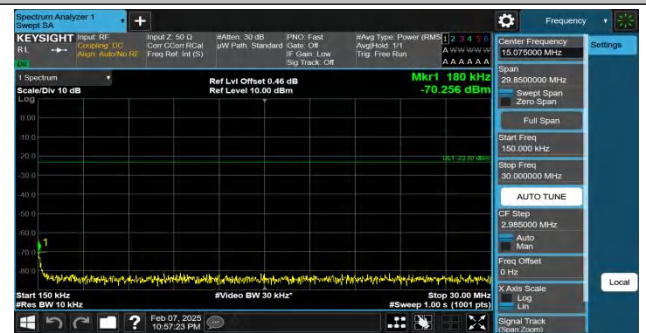
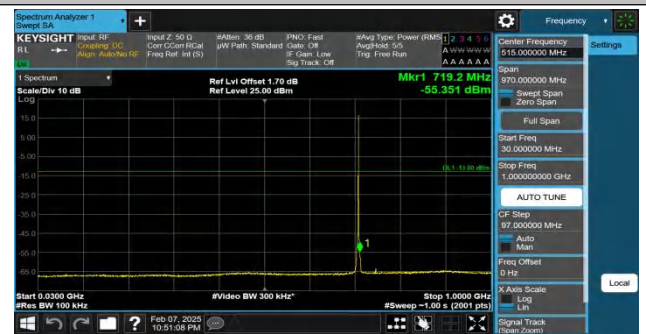
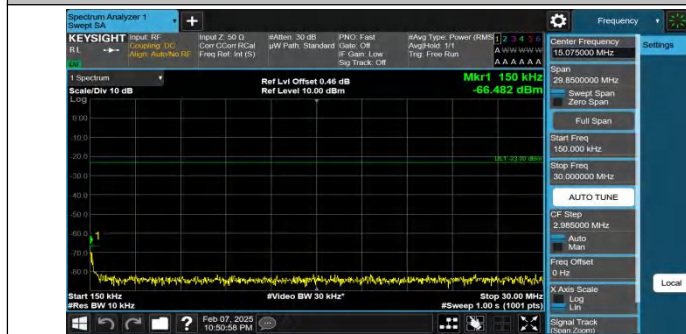
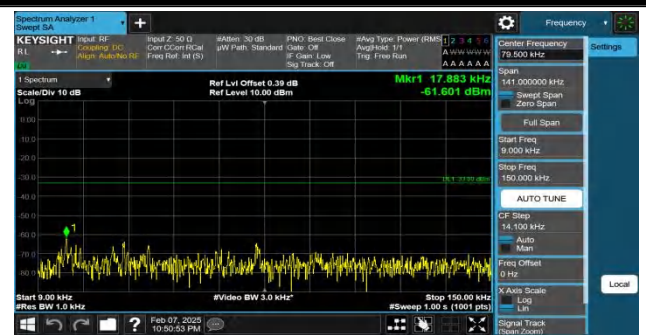
Band12-1.4MHz-QPSK-23017-1RB#5-0.15~30-PASS

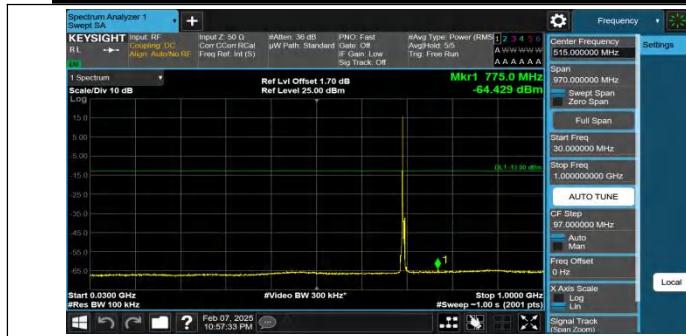


Band12-1.4MHz-QPSK-23017-1RB#5-30~1000-PASS









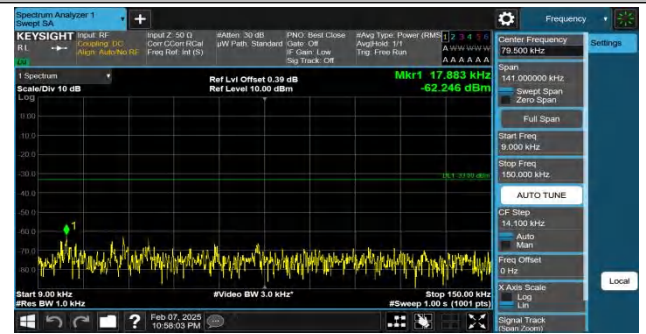
Band12-3MHz-QPSK-23025-1RB#0-30~1000-PASS



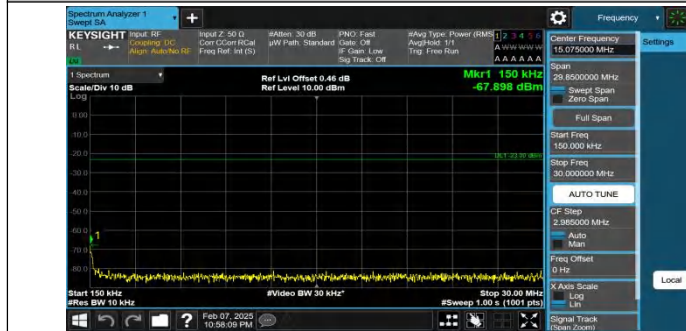
Band12-3MHz-QPSK-23025-1RB#0-1000~3000-PASS



Band12-3MHz-QPSK-23025-1RB#0-3000~10000-PASS



Band12-3MHz-QPSK-23025-1RB#14-0.009~0.15-PASS



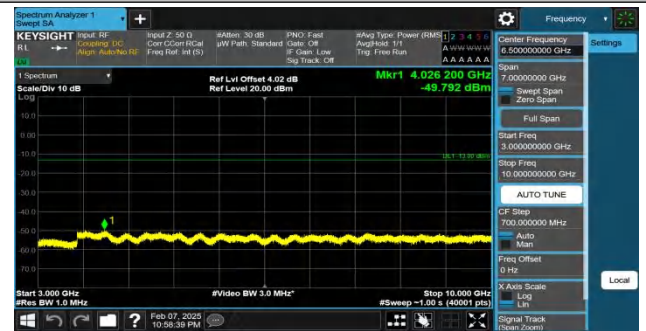
Band12-3MHz-QPSK-23025-1RB#14-0.15~30-PASS



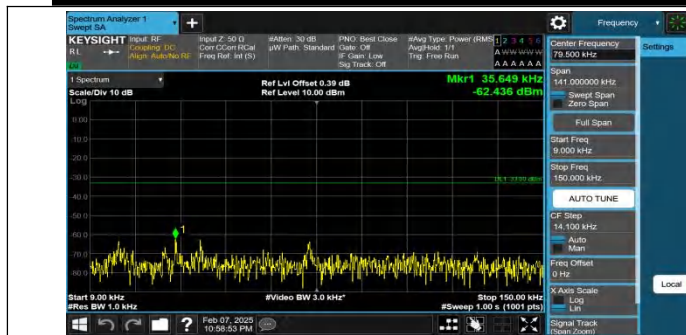
Band12-3MHz-QPSK-23025-1RB#14-30~1000-PASS



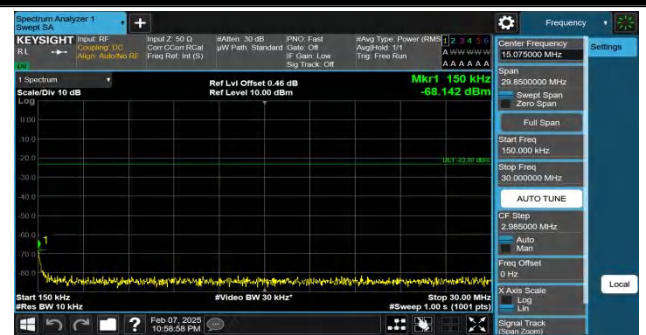
Band12-3MHz-QPSK-23025-1RB#14-1000~3000-PASS



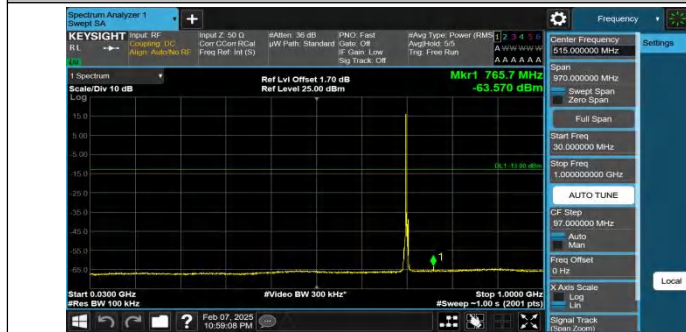
Band12-3MHz-QPSK-23025-1RB#14-3000~10000-PASS



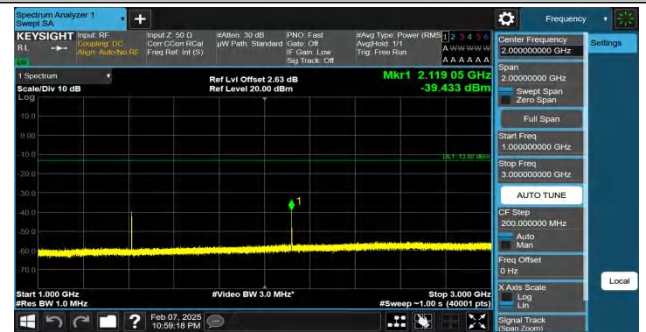
Band12-3MHz-QPSK-23095-1RB#0-0.009~0.15-PASS



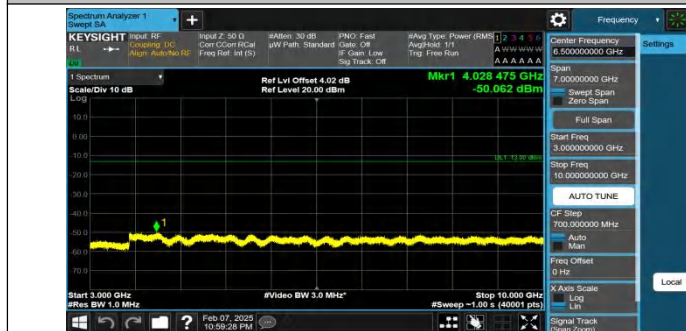
Band12-3MHz-QPSK-23095-1RB#0-0.15~30-PASS



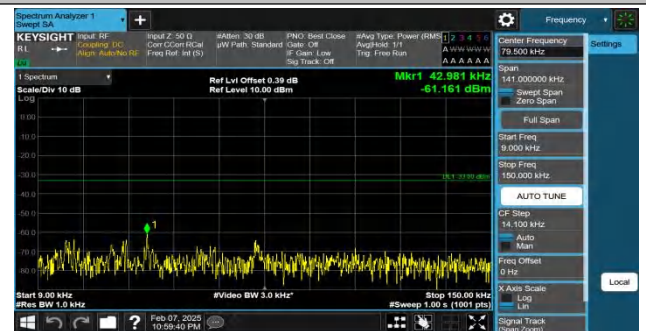
Band12-3MHz-QPSK-23095-1RB#0-30~1000-PASS



Band12-3MHz-QPSK-23095-1RB#0-1000~3000-PASS



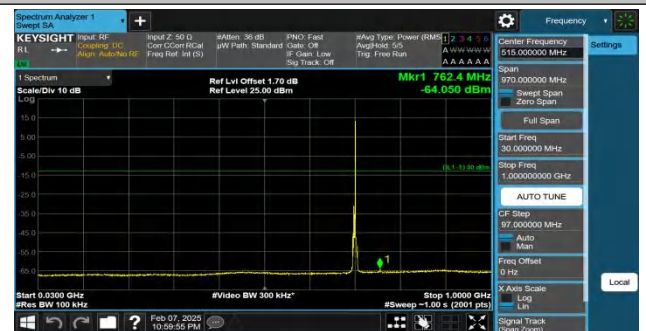
Band12-3MHz-QPSK-23095-1RB#0-3000~10000-PASS



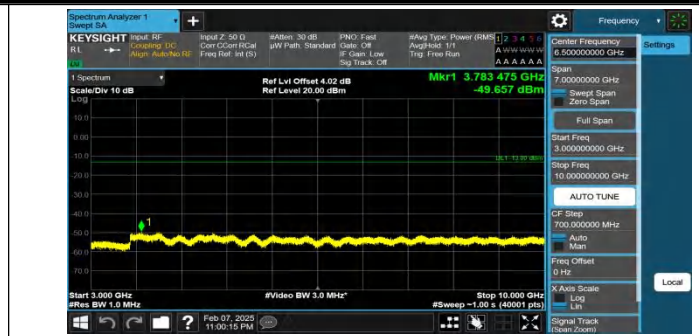
Band12-3MHz-QPSK-23095-1RB#14-0.009~0.15-PASS

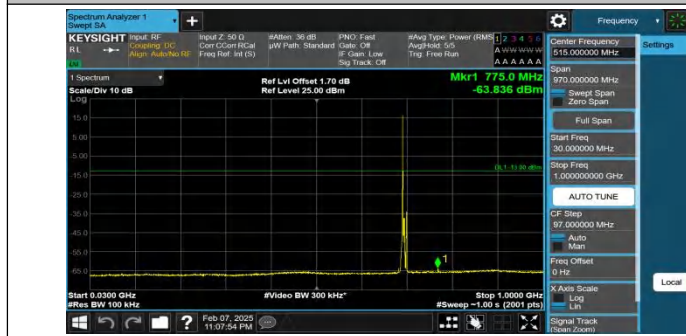
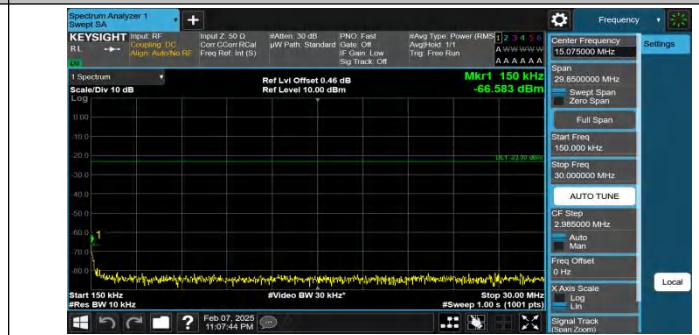
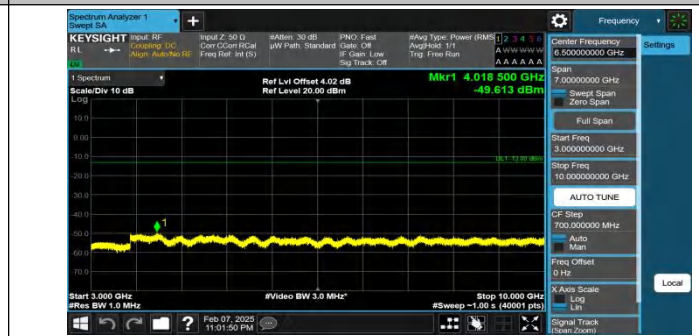
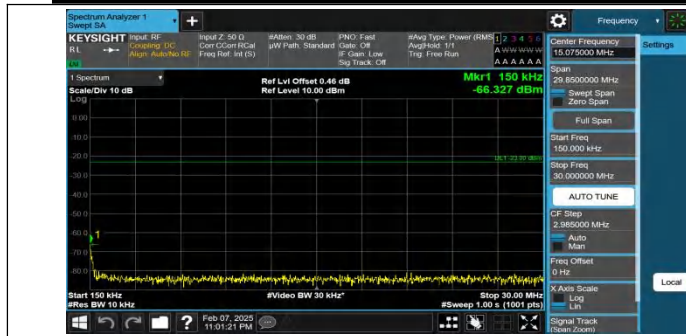


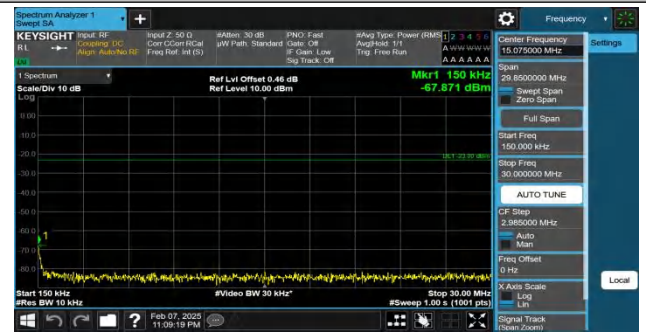
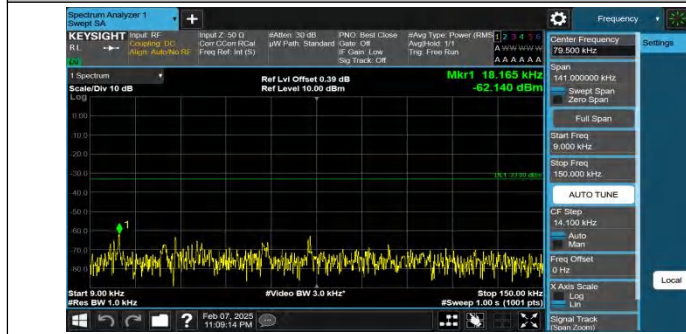
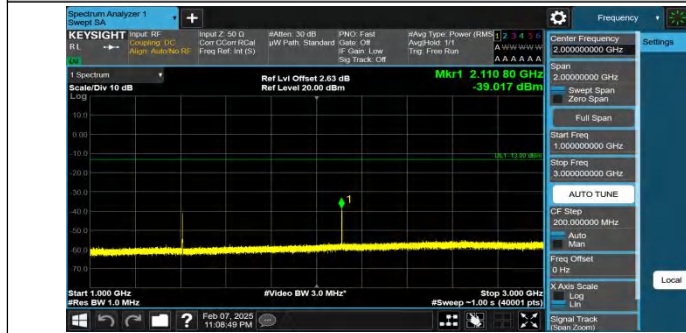
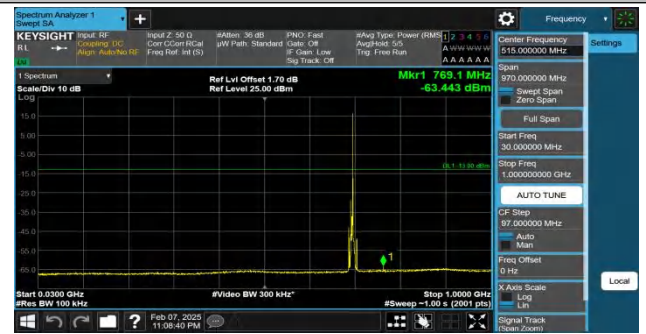
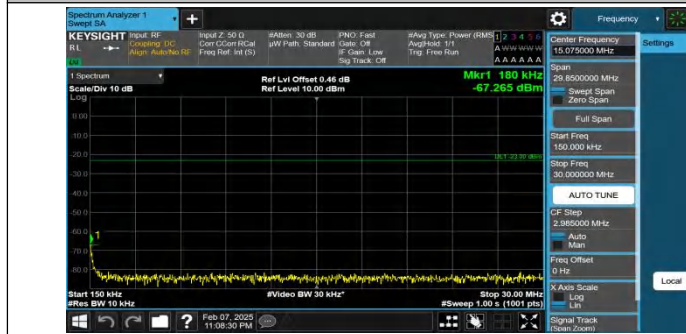
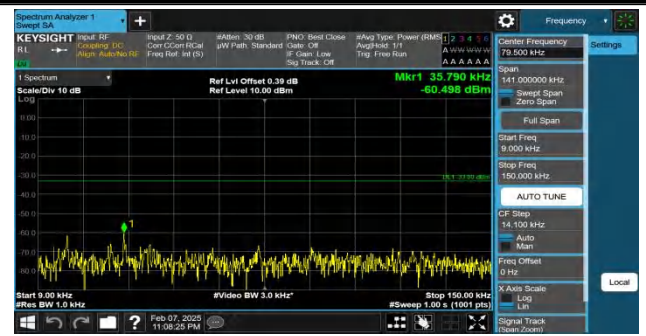
Band12-3MHz-QPSK-23095-1RB#14-0.15~30-PASS

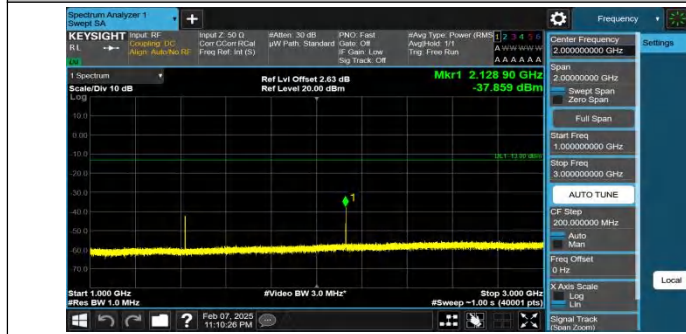
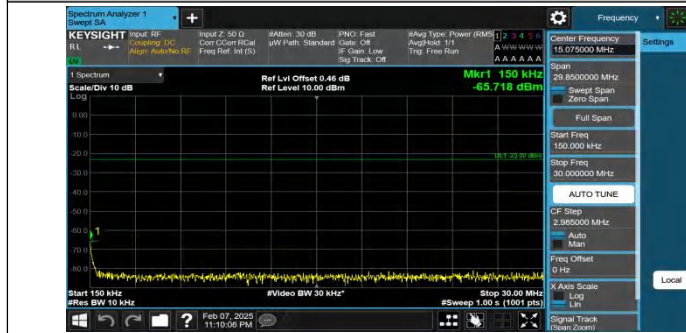
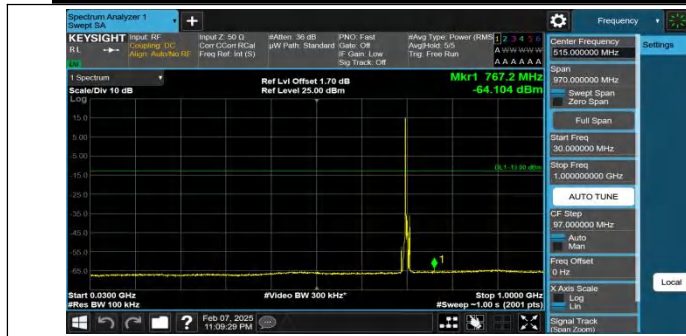


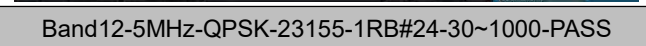
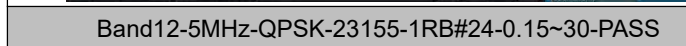
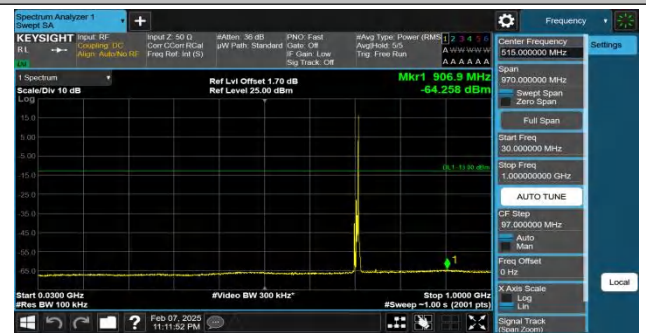
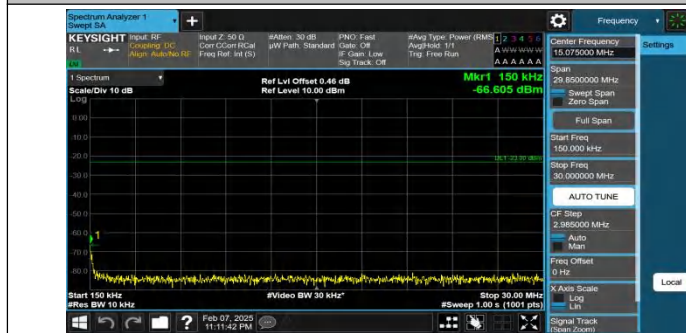
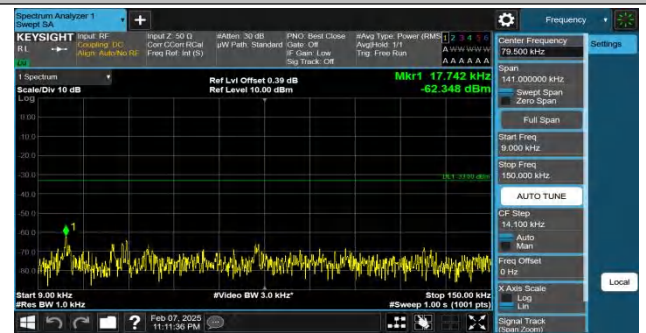
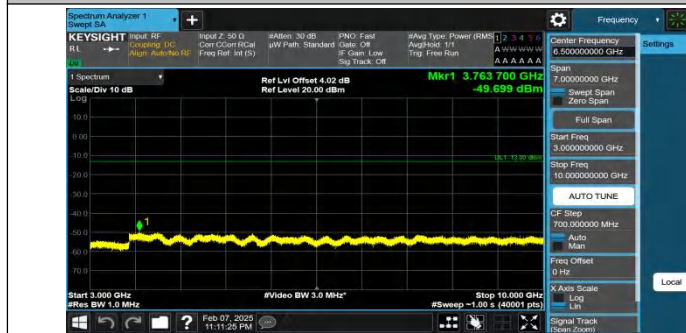
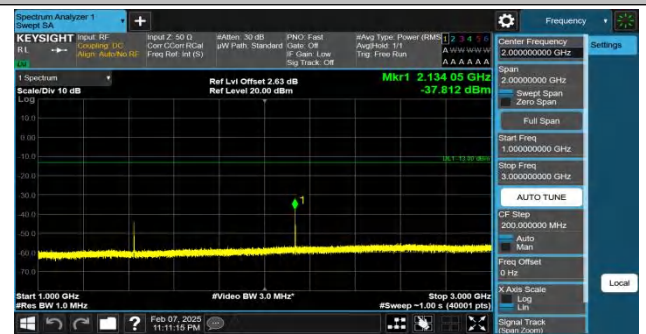
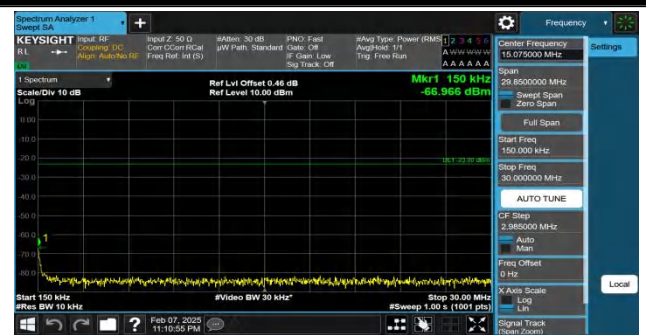
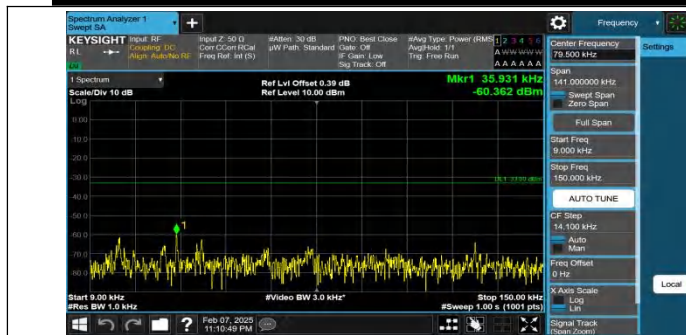
Band12-3MHz-QPSK-23095-1RB#14-30~1000-PASS

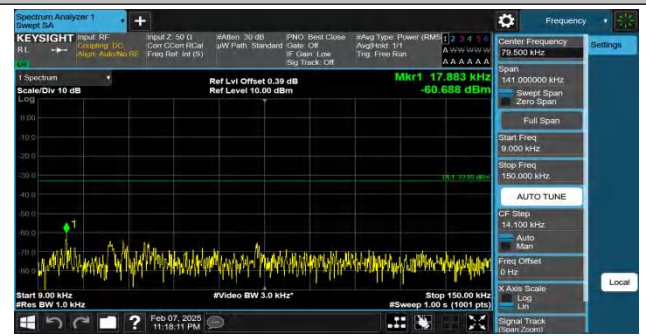
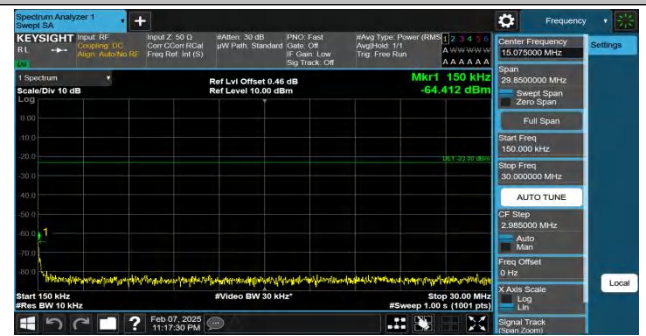


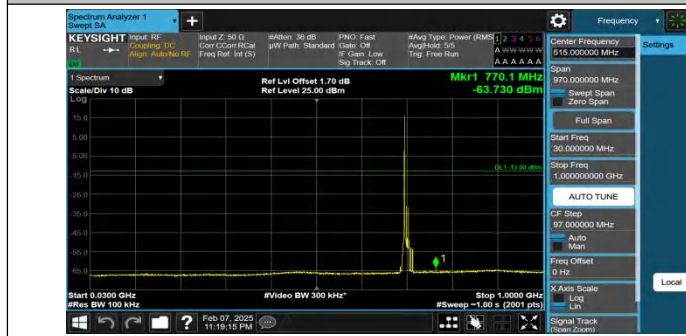
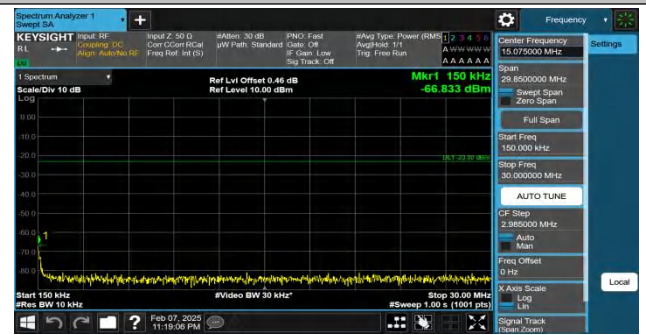
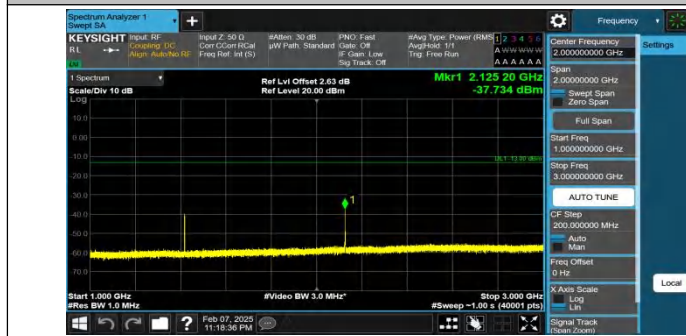
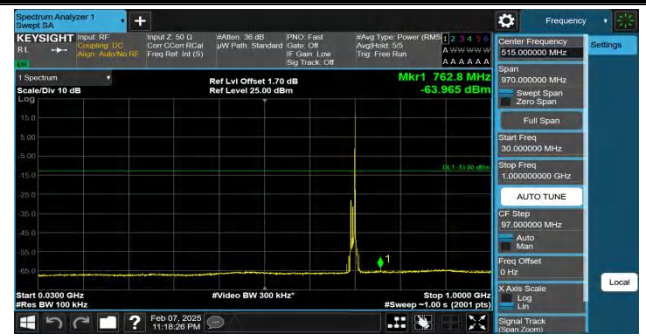
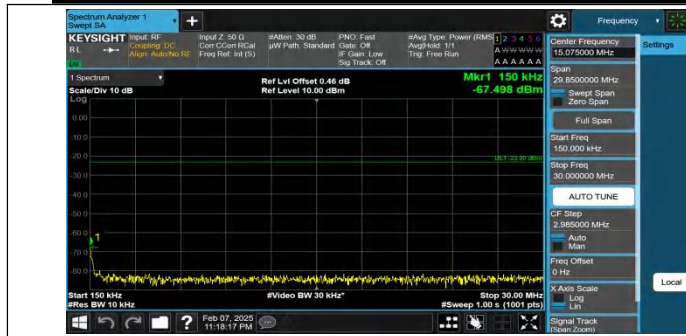


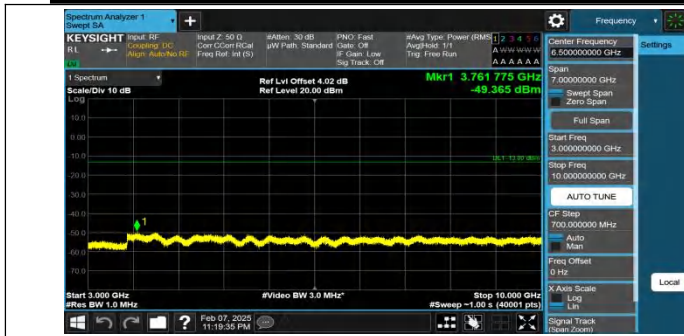




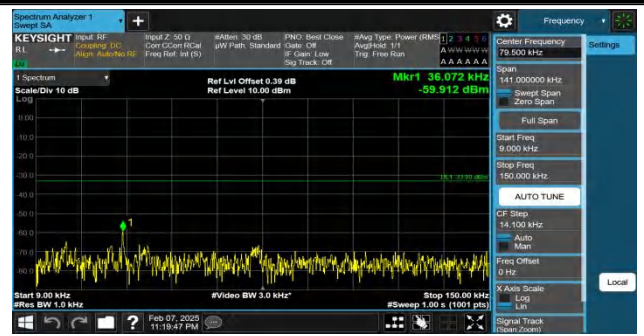








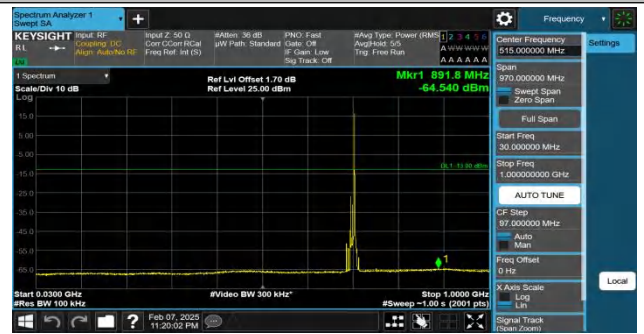
Band12-10MHz-QPSK-23095-1RB#0-3000~10000-PASS



Band12-10MHz-QPSK-23095-1RB#49-0.009~0.15-PASS



Band12-10MHz-QPSK-23095-1RB#49-0.15~30-PASS



Band12-10MHz-QPSK-23095-1RB#49-30~1000-PASS



Band12-10MHz-QPSK-23095-1RB#49-1000~3000-PASS



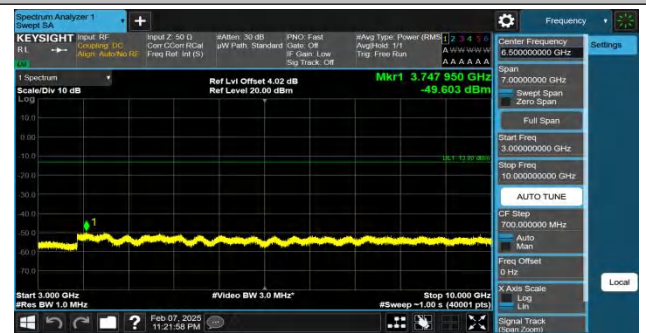
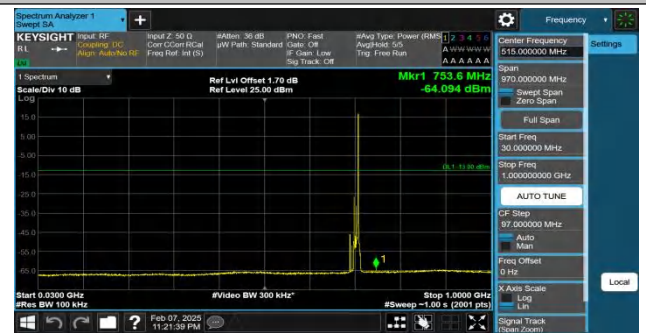
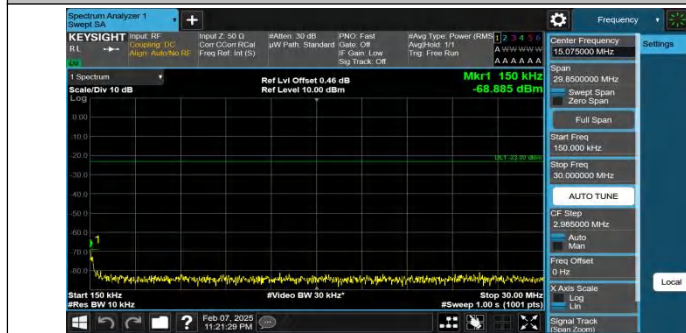
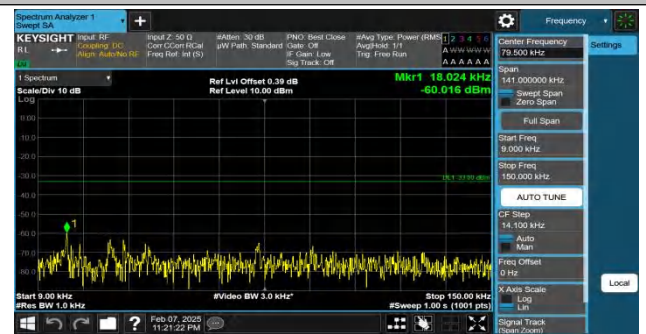
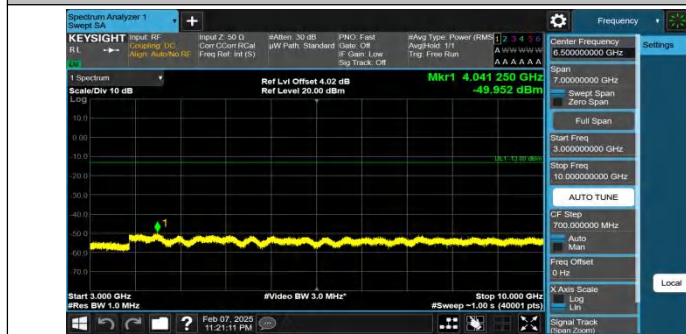
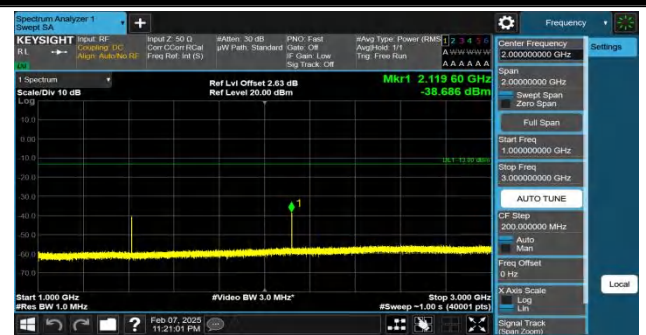
Band12-10MHz-QPSK-23095-1RB#49-3000~10000-PASS



Band12-10MHz-QPSK-23130-1RB#0-0.009~0.15-PASS



Band12-10MHz-QPSK-23130-1RB#0-0.15~30-PASS



Frequency Stability

Test Result

Voltage													
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band 12	10MHz	QPSK	23095	50RB#0	VN	NT	1460.00	2.063604	±NA	703.04046	711.96246	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	VL	NT	2450.00	3.462898	±NA	703.04115	711.96375	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	VH	NT	900.00	1.272085	±NA	703.0417	711.9601	699-716	PASS

Temperature													
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band 12	10MHz	QPSK	23095	50RB#0	NV	-30	2070.00	2.925795	±NA	703.04372	711.96042	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	-20	-750.00	-1.060071	±NA	703.04055	711.95795	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	-10	2230.00	3.151943	±NA	703.04168	711.96278	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	0	-340.00	-0.480565	±NA	703.04176	711.95756	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	10	810.00	1.144876	±NA	703.04146	711.96016	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	20	-3520.00	-4.975265	±NA	703.03968	711.95328	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	30	730.00	1.031802	±NA	703.03913	711.96233	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	40	-280.00	-0.395760	±NA	703.03947	711.95997	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	50	-3170.00	-4.480565	±NA	703.03628	711.95738	699-716	PASS

----- THE END -----