

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	23.14	3.26	24.25	34.8	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.48	3.26	23.59	34.8	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.7	3.26	24.81	34.8	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.32	3.26	24.43	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.48	3.26	24.59	34.8	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.42	3.26	23.53	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.75	3.26	24.86	34.8	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.48	3.26	24.59	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.43	3.26	24.54	34.8	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.53	3.26	23.64	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.64	3.26	24.75	34.8	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.28	3.26	24.39	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.3	3.26	23.41	34.8	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.45	3.26	22.56	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.71	3.26	23.82	34.8	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.29	3.26	23.4	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.56	3.26	23.67	34.8	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.43	3.26	22.54	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.32	3.26	23.43	34.8	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.55	3.26	23.66	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.33	3.26	23.44	34.8	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.57	3.26	22.68	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.88	3.26	23.99	34.8	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.63	3.26	23.74	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.3	3.26	24.41	34.8	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.52	3.26	23.63	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.34	3.26	24.45	34.8	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.5	3.26	24.61	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.59	3.26	24.7	34.8	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.48	3.26	23.59	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.47	3.26	24.58	34.8	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.34	3.26	24.45	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.53	3.26	24.64	34.8	PASS

Band12	3MHz	QPSK	23165	15RB#0	22.56	3.26	23.67	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.45	3.26	24.56	34.8	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.35	3.26	24.46	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.24	3.26	23.35	34.8	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.55	3.26	22.66	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.36	3.26	23.47	34.8	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.44	3.26	23.55	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.46	3.26	23.57	34.8	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.2	3.26	22.31	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.54	3.26	23.65	34.8	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.3	3.26	23.41	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.93	3.26	24.04	34.8	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.42	3.26	22.53	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.8	3.26	23.91	34.8	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.61	3.26	23.72	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.31	3.26	24.42	34.8	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.53	3.26	23.64	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.74	3.26	24.85	34.8	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.4	3.26	24.51	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.49	3.26	24.6	34.8	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.37	3.26	23.48	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.67	3.26	24.78	34.8	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.28	3.26	24.39	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.57	3.26	24.68	34.8	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.38	3.26	23.49	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.6	3.26	24.71	34.8	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.24	3.26	24.35	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.03	3.26	23.14	34.8	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.45	3.26	22.56	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.17	3.26	23.28	34.8	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.35	3.26	23.46	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.56	3.26	23.67	34.8	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.37	3.26	22.48	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.46	3.26	23.57	34.8	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.46	3.26	23.57	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.35	3.26	23.46	34.8	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.44	3.26	22.55	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.62	3.26	23.73	34.8	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.33	3.26	23.44	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.06	3.26	24.17	34.8	PASS

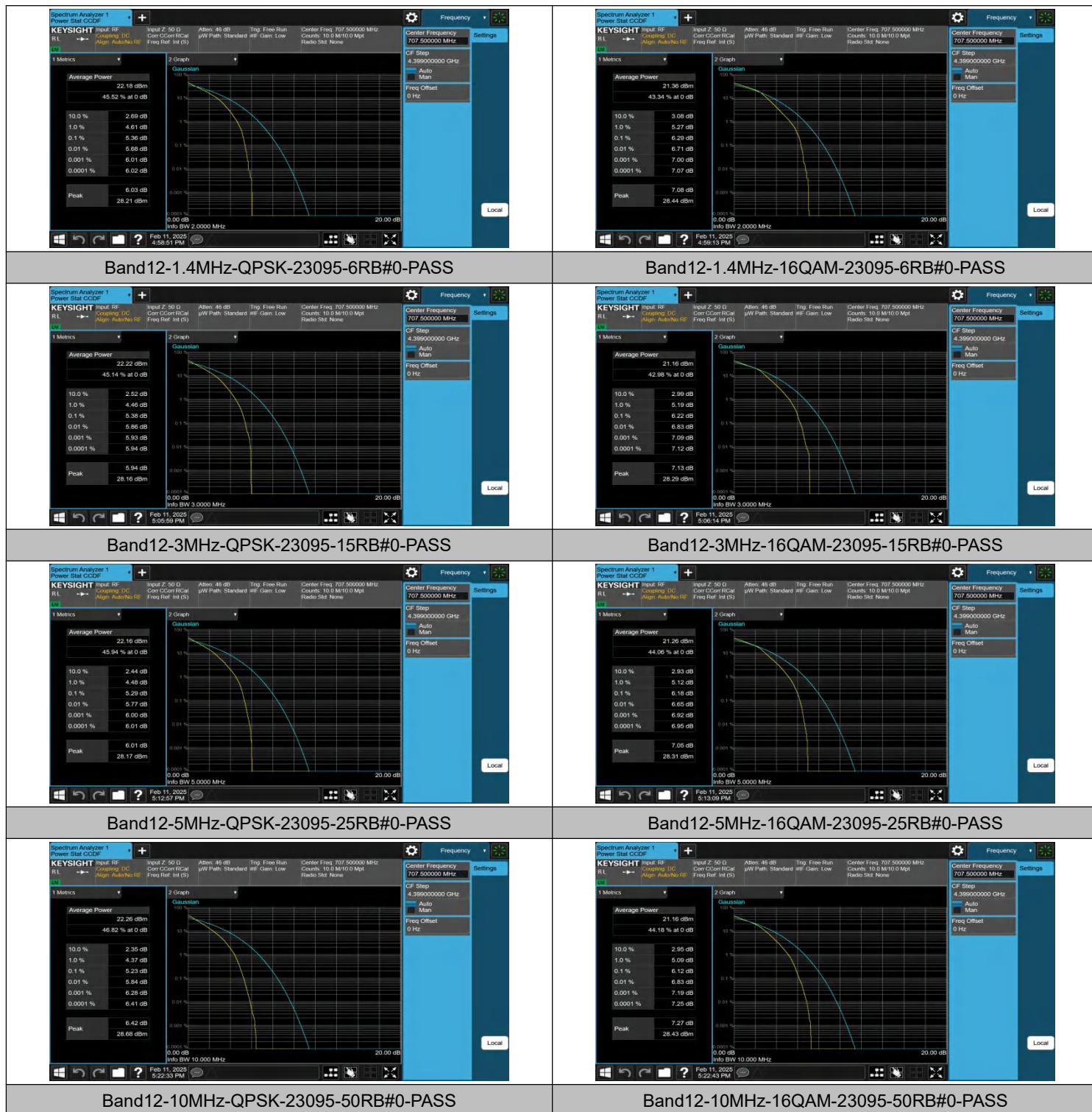
Band12	10MHz	QPSK	23060	50RB#0	22.5	3.26	23.61	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.39	3.26	24.5	34.8	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.28	3.26	24.39	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.19	3.26	24.3	34.8	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.43	3.26	23.54	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.36	3.26	24.47	34.8	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.44	3.26	24.55	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.52	3.26	24.63	34.8	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.51	3.26	23.62	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.03	3.26	25.14	34.8	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.23	3.26	24.34	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.32	3.26	23.43	34.8	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.4	3.26	22.51	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.81	3.26	23.92	34.8	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.33	3.26	23.44	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.22	3.26	23.33	34.8	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.36	3.26	22.47	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.73	3.26	23.84	34.8	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.4	3.26	23.51	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.88	3.26	23.99	34.8	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.44	3.26	22.55	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.43	3.26	24.54	34.8	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.92	3.26	24.03	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	5.36	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.29	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.38	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.22	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.29	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.18	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.23	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.12	13	PASS

Test Graphs

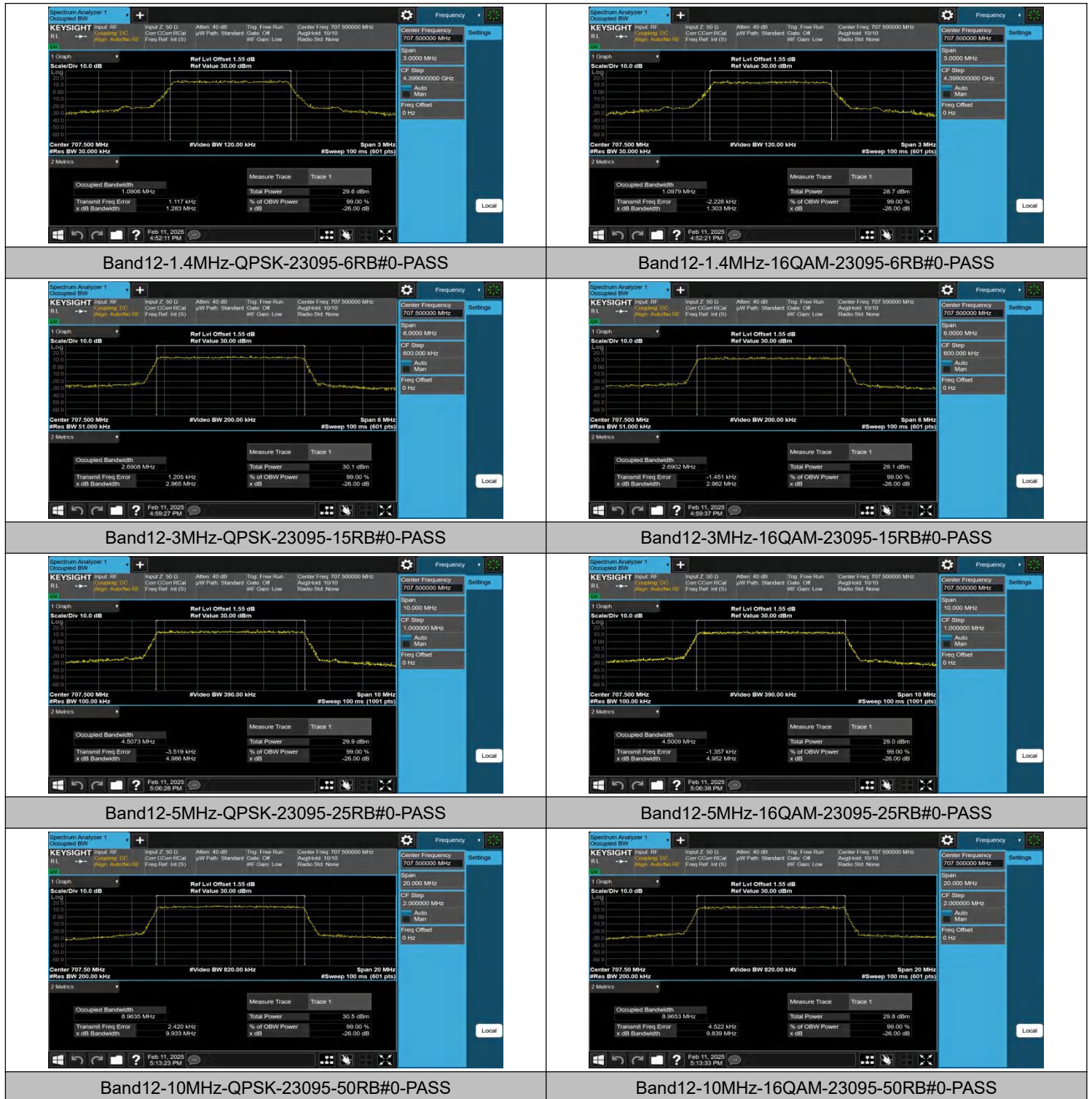


26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	1.0906	1.283	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0979	1.303	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6908	2.965	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6902	2.962	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5073	4.986	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5009	4.952	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9635	9.933	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9653	9.839	PASS

Test Graphs



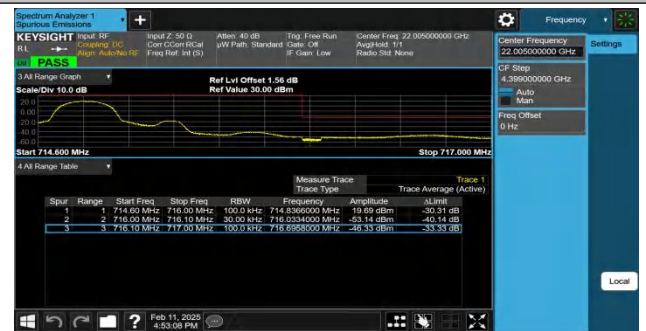
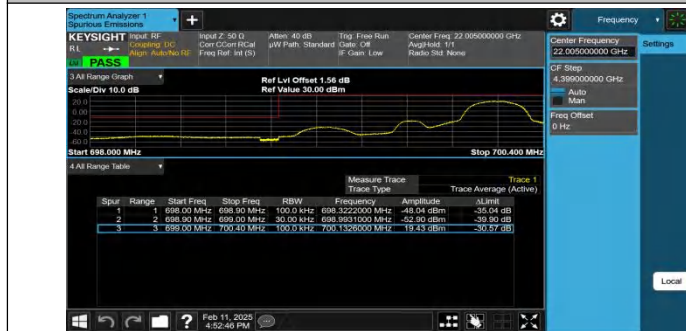
Band Edge

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-23173-1RB#5-PASS

Band12-1.4MHz-QPSK-23173-6RB#0-PASS



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

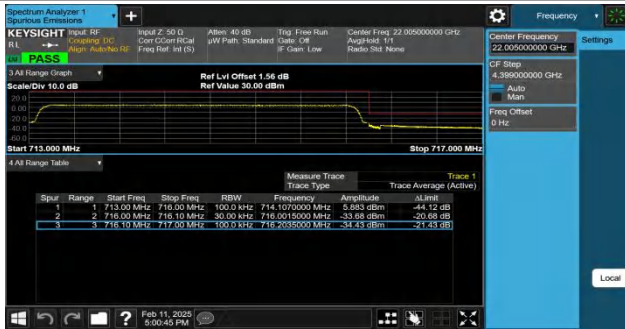
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Band12-3MHz-QPSK-23025-1RB#14-PASS



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



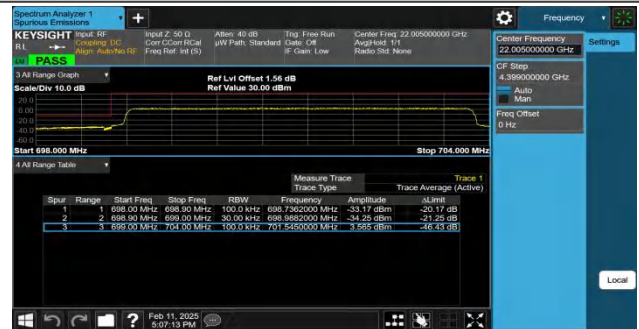
Band12-3MHz-QPSK-23165-15RB#0-PASS



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



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



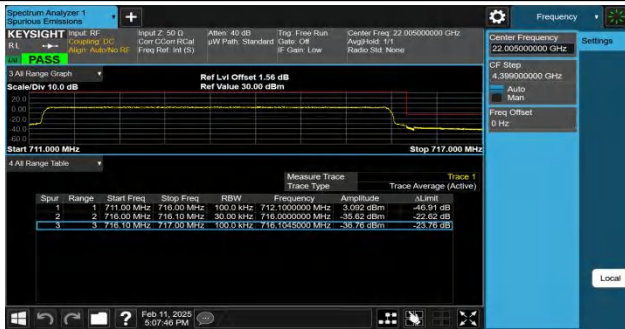
Band12-5MHz-QPSK-23035-25RB#0-PASS



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



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



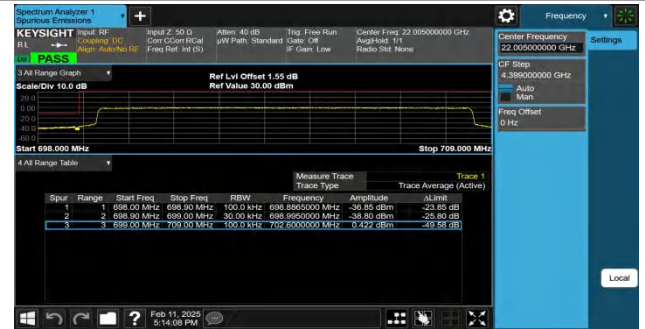
Band12-5MHz-QPSK-23155-25RB#0-PASS



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



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



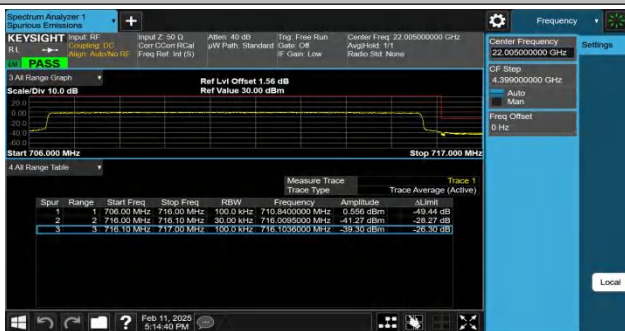
Band12-10MHz-QPSK-23060-50RB#0-PASS



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



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



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



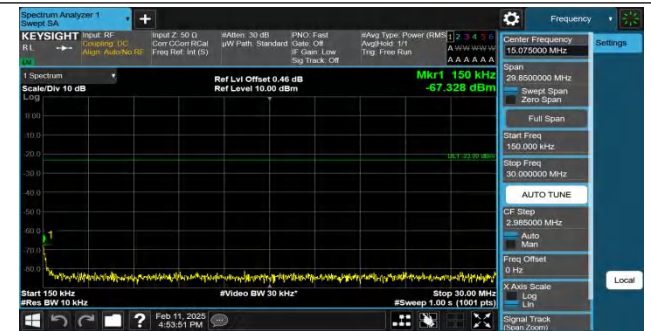
Band12-10MHz-QPSK-23130-1RB#49-PASS

Conducted Spurious Emission

Test Graphs



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



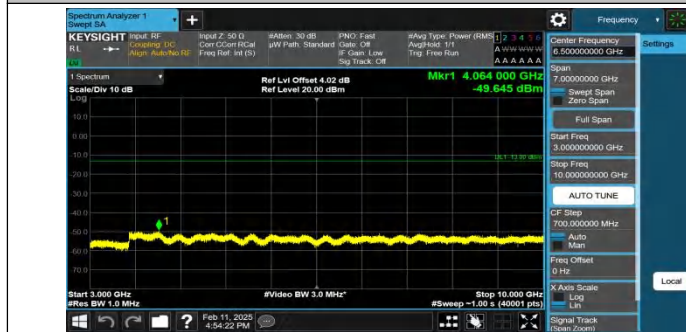
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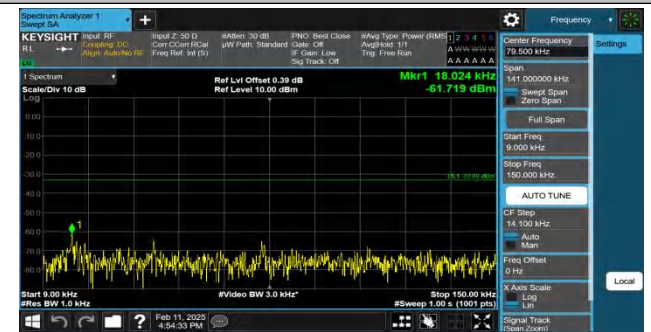
Band12-1.4MHz-QPSK-23017-1RB#0-30~1000-PASS



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



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



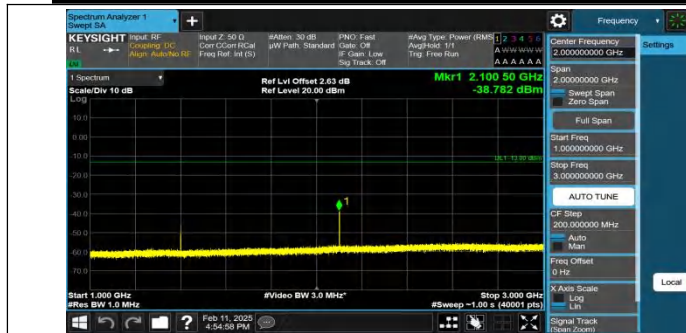
Band12-1.4MHz-QPSK-23017-1RB#5-0.009~0.15-PASS



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



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



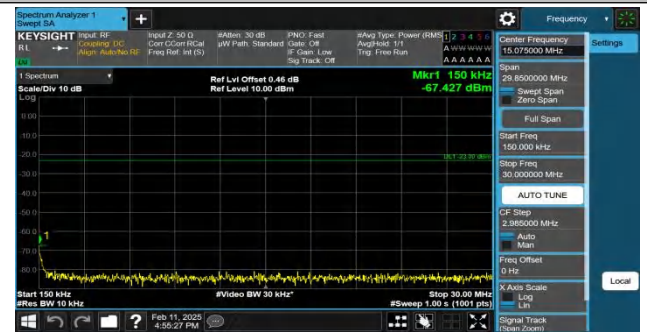
Band12-1.4MHz-QPSK-23017-1RB#5-1000~3000-PASS



Band12-1.4MHz-QPSK-23017-1RB#5-3000~10000-PASS



Band12-1.4MHz-QPSK-23095-1RB#0-0.009~0.15-PASS



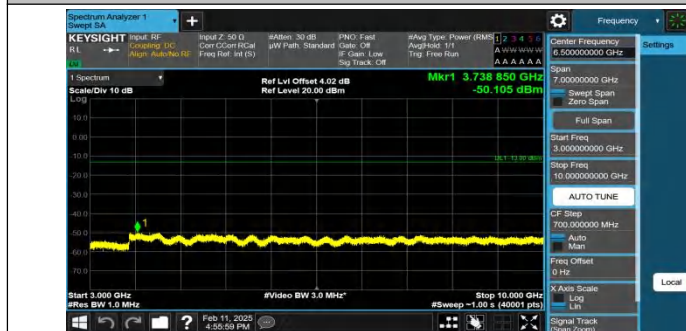
Band12-1.4MHz-QPSK-23095-1RB#0-0.15~30-PASS



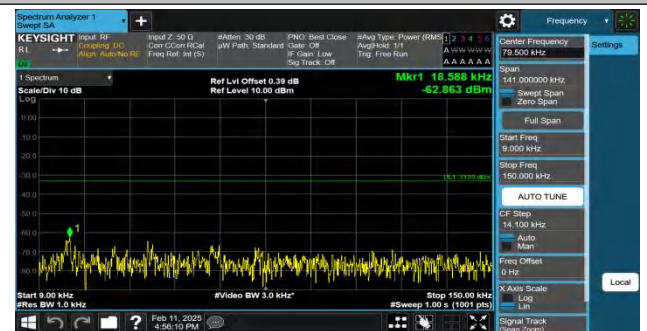
Band12-1.4MHz-QPSK-23095-1RB#0-30~1000-PASS



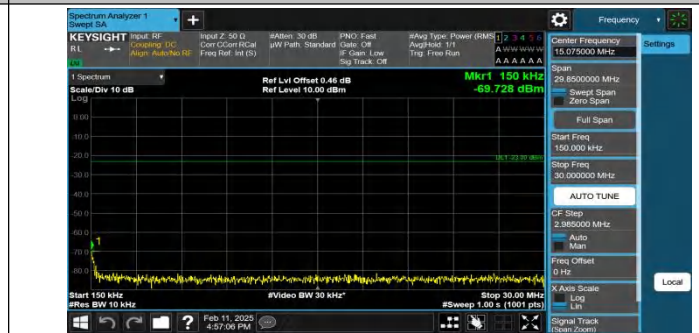
Band12-1.4MHz-QPSK-23095-1RB#0-1000~3000-PASS

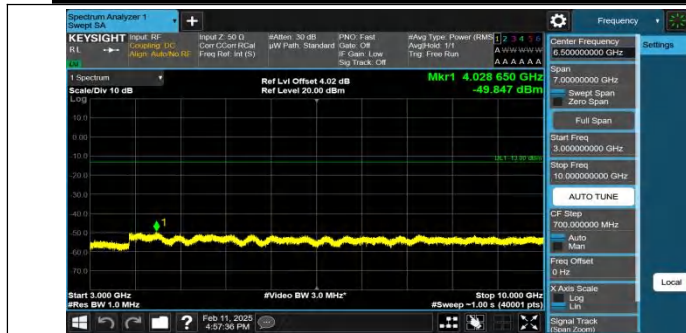


Band12-1.4MHz-QPSK-23095-1RB#0-3000~10000-PASS

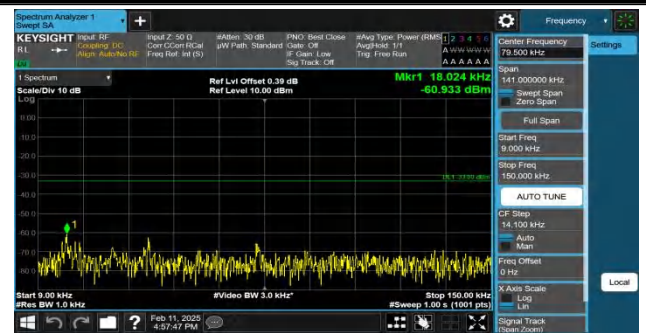


Band12-1.4MHz-QPSK-23095-1RB#5-0.009~0.15-PASS

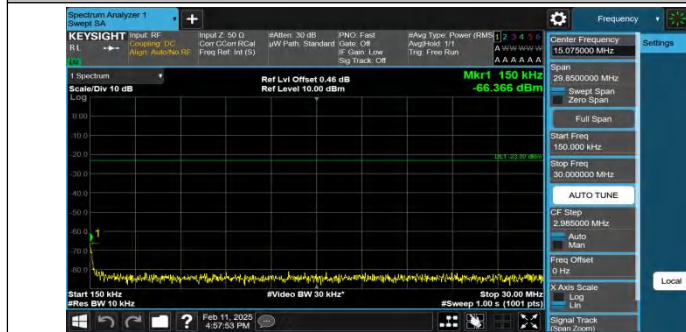




Band12-1.4MHz-QPSK-23173-1RB#0-3000~10000-PASS



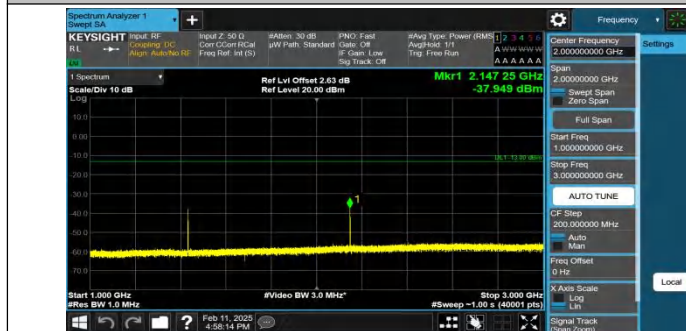
Band12-1.4MHz-QPSK-23173-1RB#5-0.009~0.15-PASS



Band12-1.4MHz-QPSK-23173-1RB#5-0.15~30-PASS



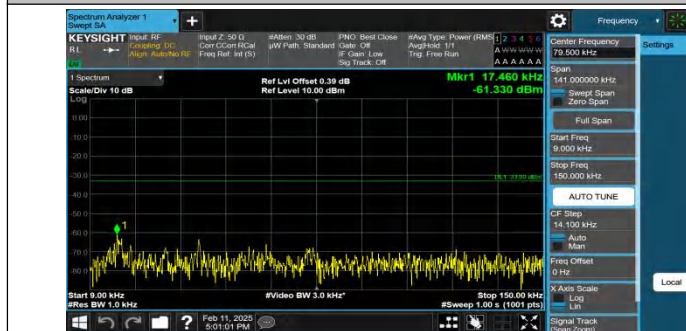
Band12-1.4MHz-QPSK-23173-1RB#5-30~1000-PASS



Band12-1.4MHz-QPSK-23173-1RB#5-1000~3000-PASS



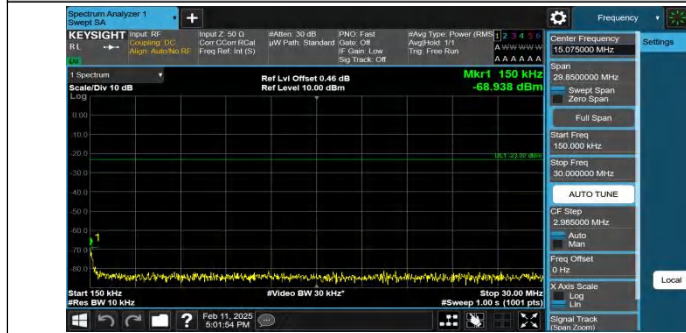
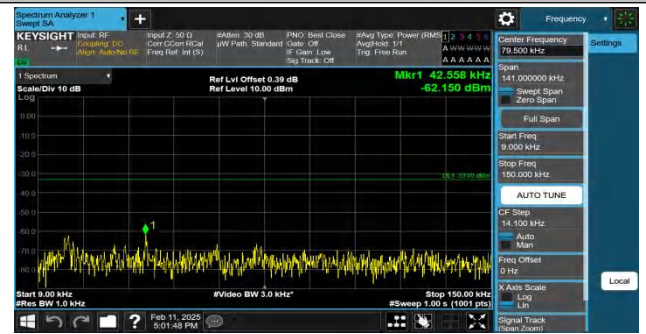
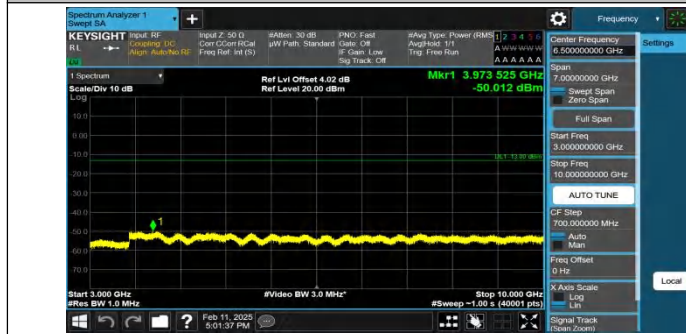
Band12-1.4MHz-QPSK-23173-1RB#5-3000~10000-PASS



Band12-3MHz-QPSK-23025-1RB#0-0.009~0.15-PASS

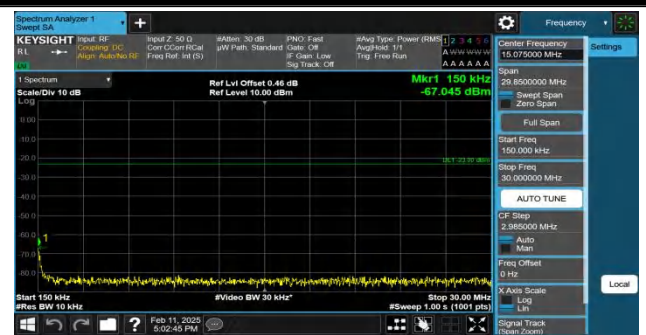


Band12-3MHz-QPSK-23025-1RB#0-0.15~30-PASS

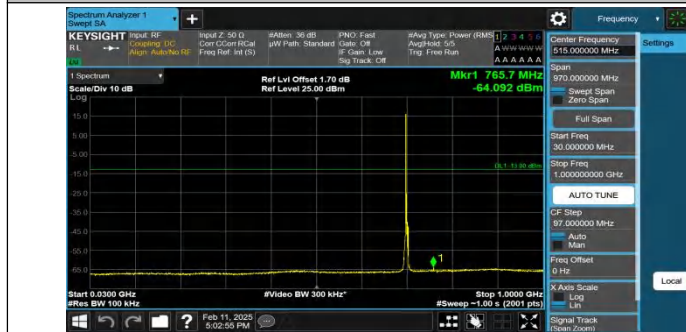




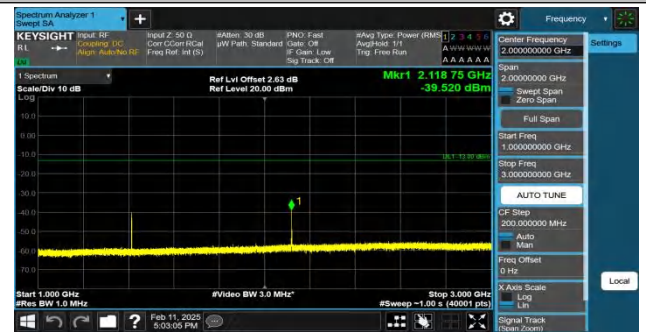
Band12-3MHz-QPSK-23095-1RB#0-0.009~0.15-PASS



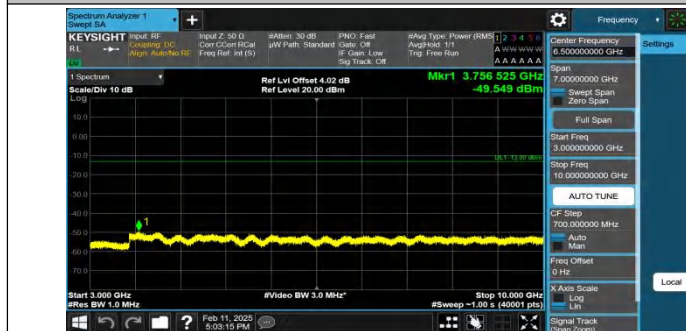
Band12-3MHz-QPSK-23095-1RB#0-0.15~30-PASS



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



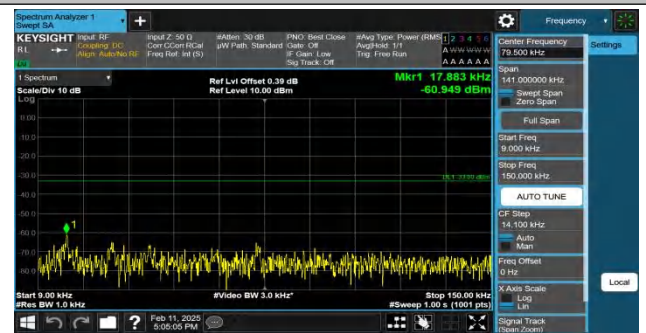
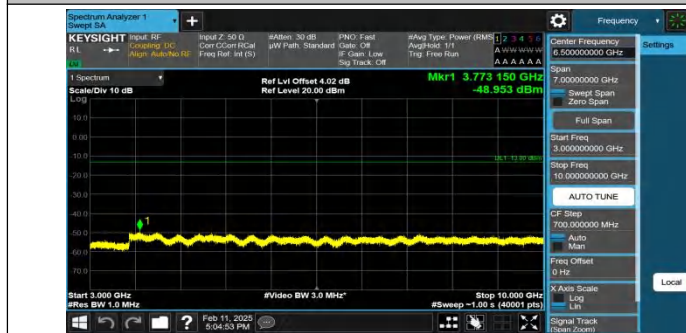
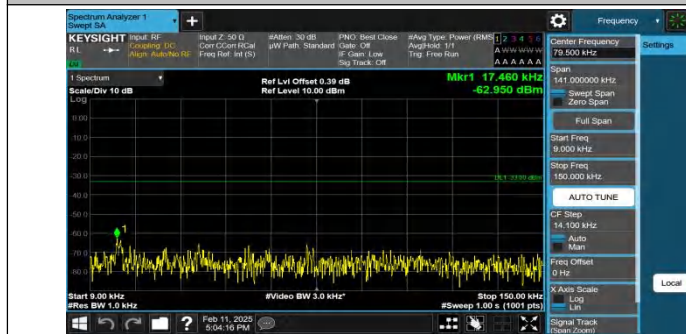
Band12-3MHz-QPSK-23095-1RB#14-0.009~0.15-PASS

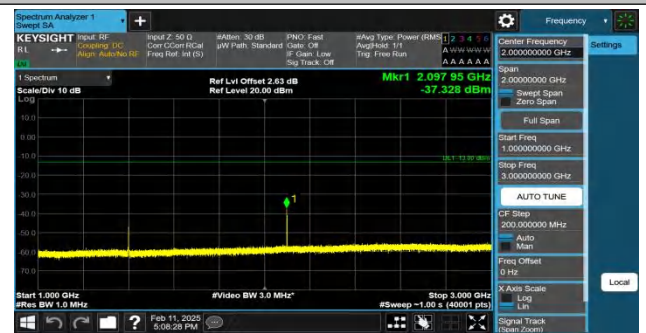
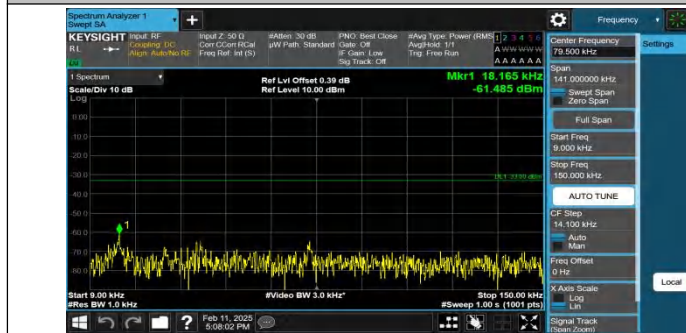
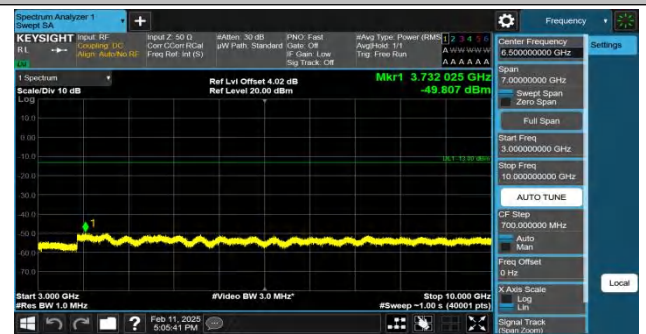
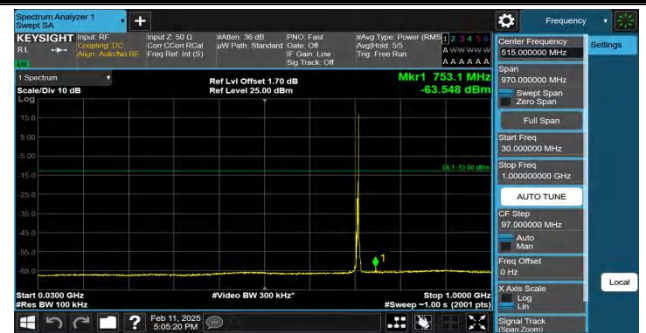


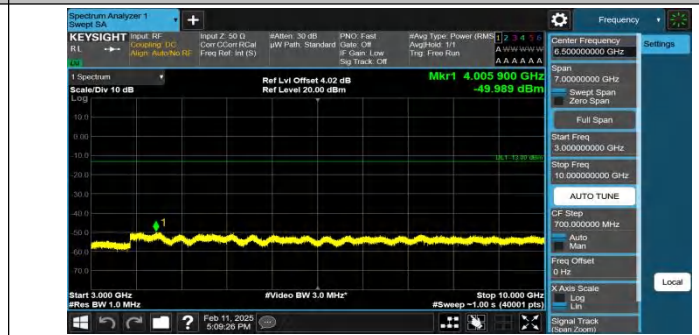
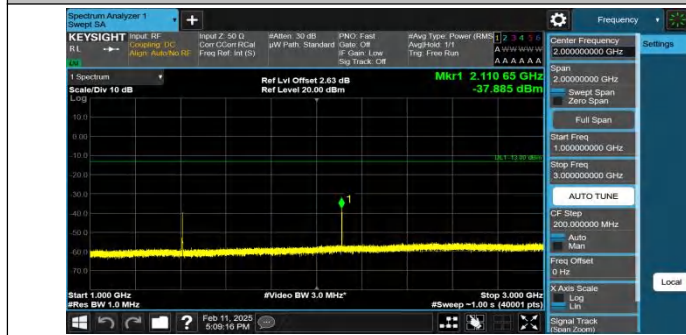
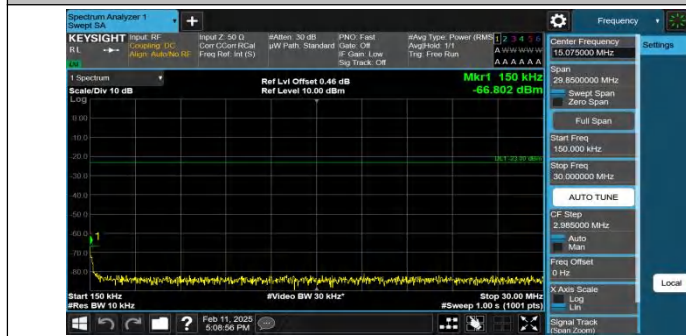
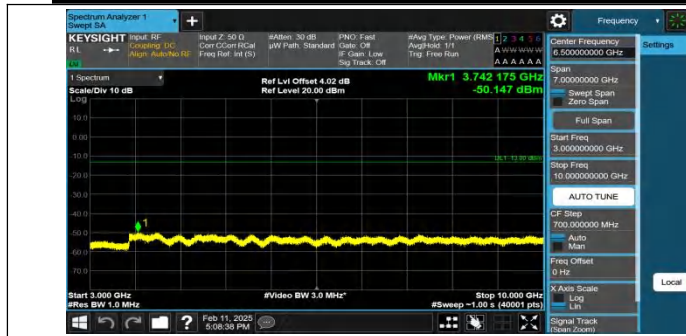
Band12-3MHz-QPSK-23095-1RB#14-0.15~30-PASS

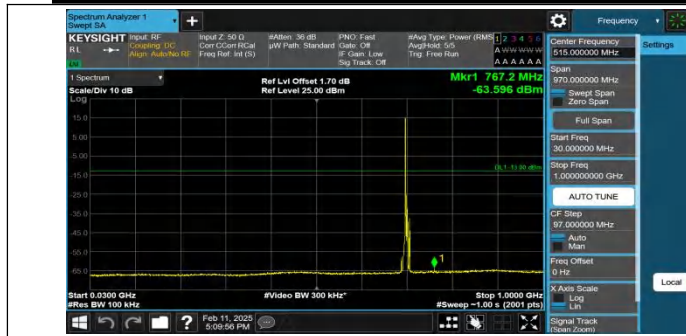


Band12-3MHz-QPSK-23095-1RB#14-30~1000-PASS









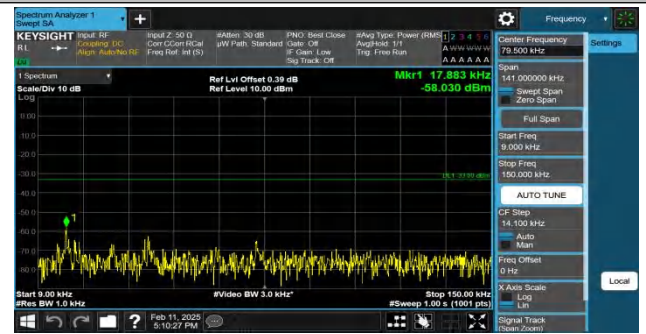
Band12-5MHz-QPSK-23095-1RB#0-30~1000-PASS



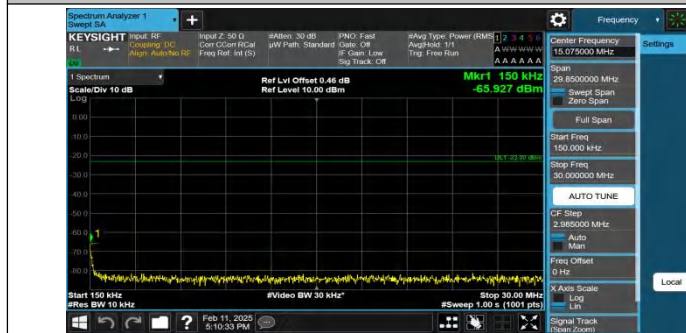
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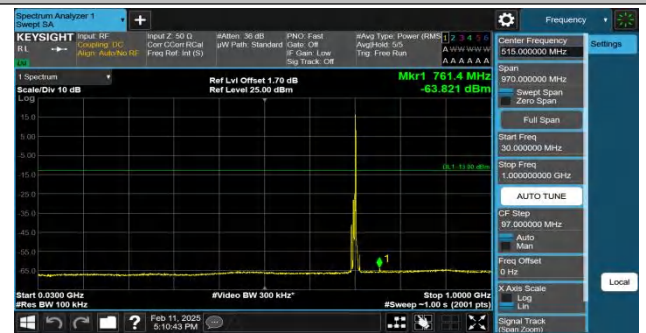
Band12-5MHz-QPSK-23095-1RB#0-3000~10000-PASS



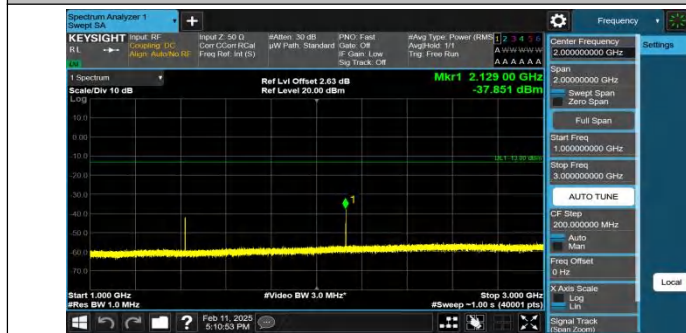
Band12-5MHz-QPSK-23095-1RB#24-0.009~0.15-PASS



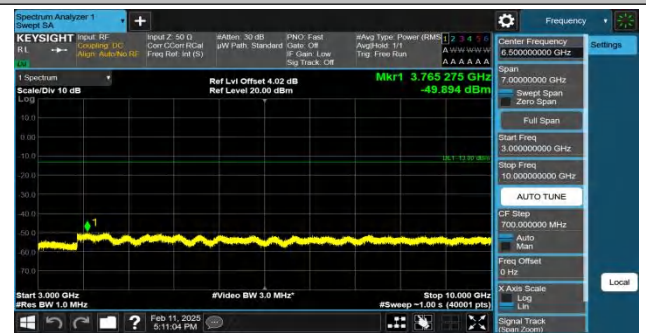
Band12-5MHz-QPSK-23095-1RB#24-0.15~30-PASS



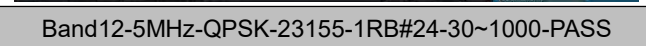
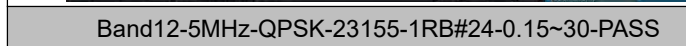
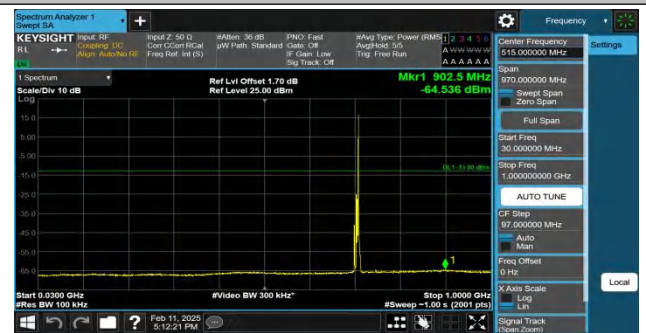
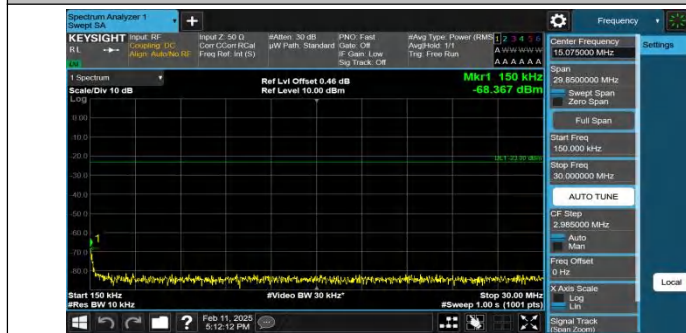
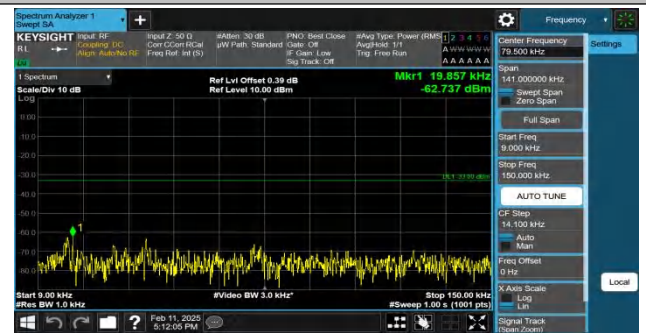
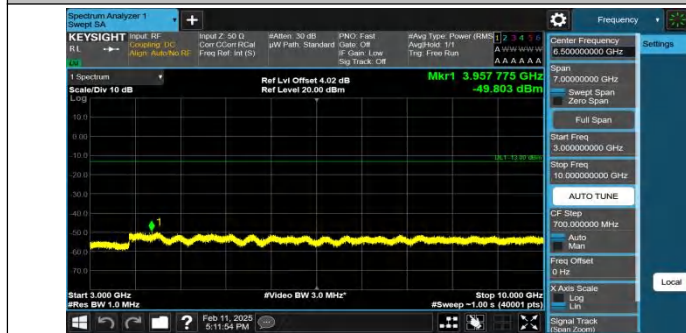
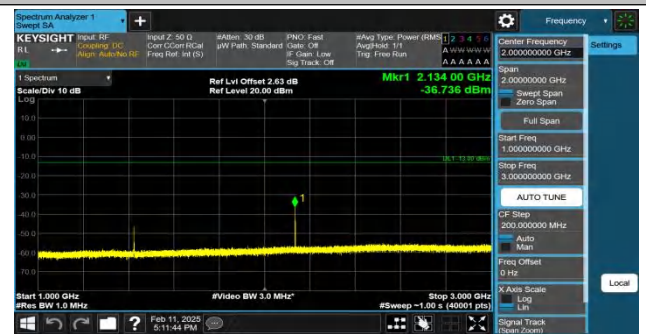
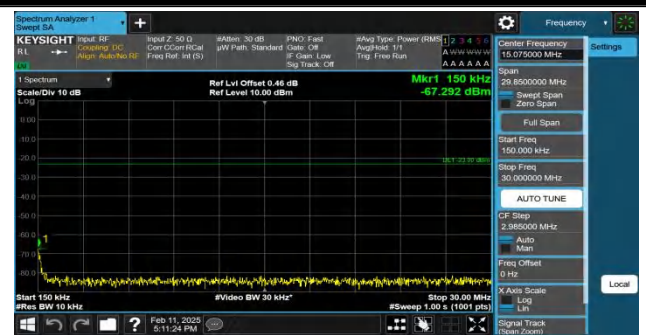
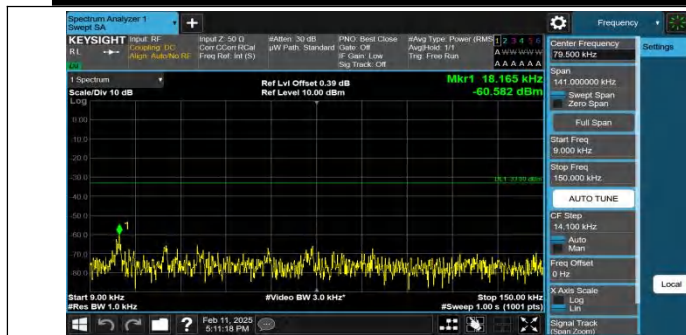
Band12-5MHz-QPSK-23095-1RB#24-30~1000-PASS

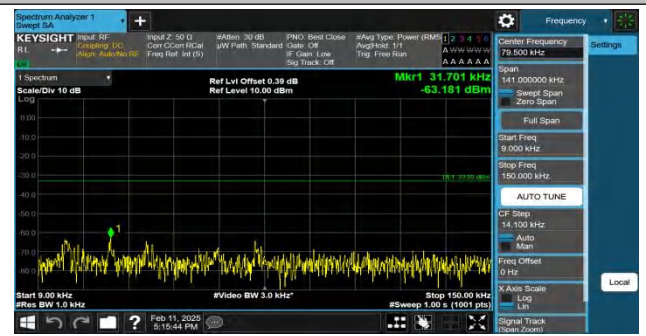
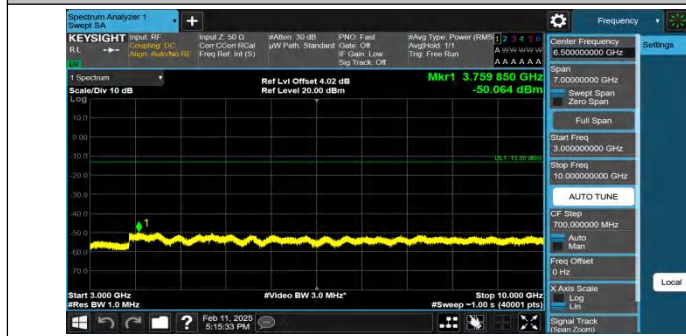
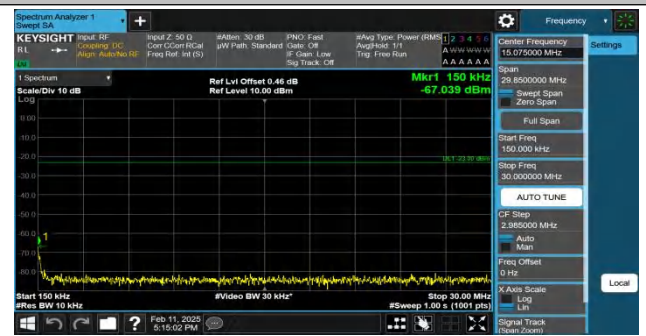
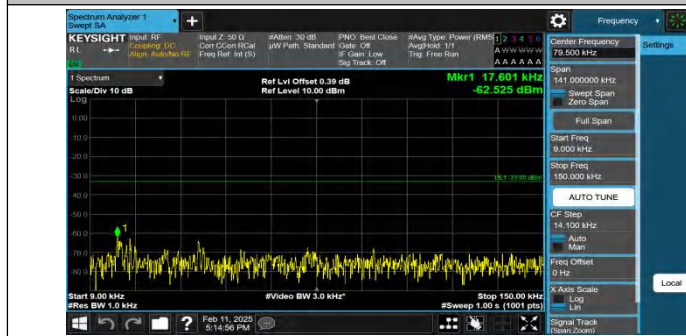


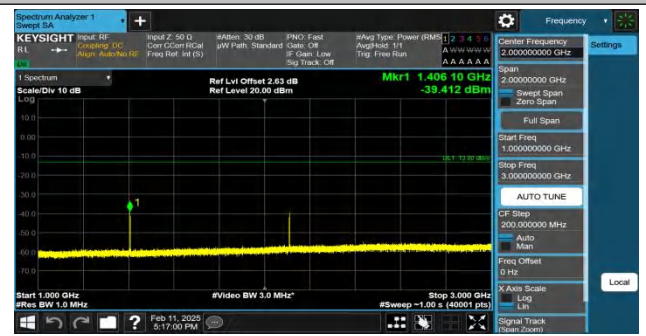
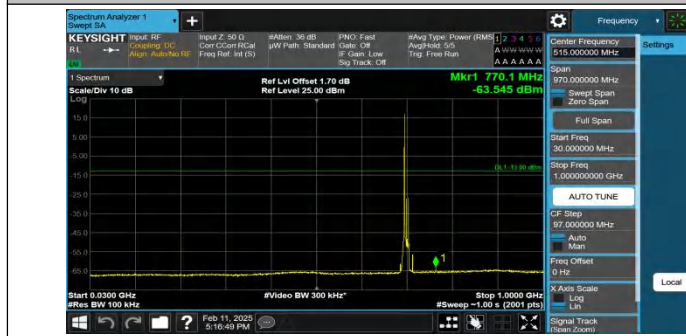
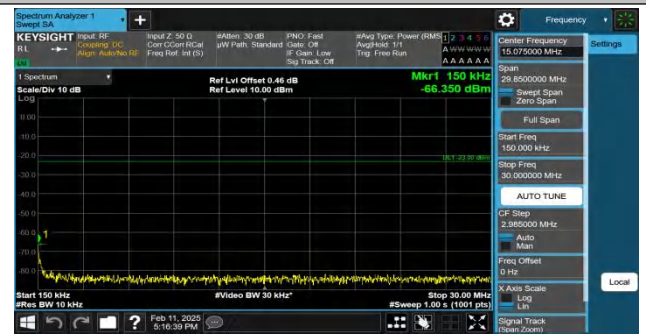
Band12-5MHz-QPSK-23095-1RB#24-1000~3000-PASS

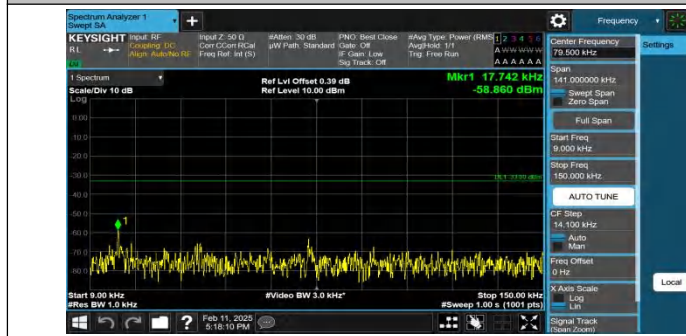
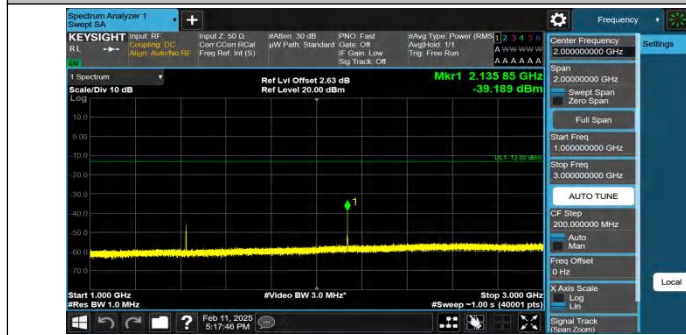
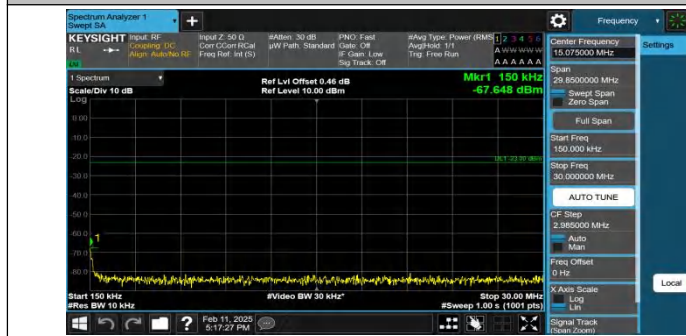


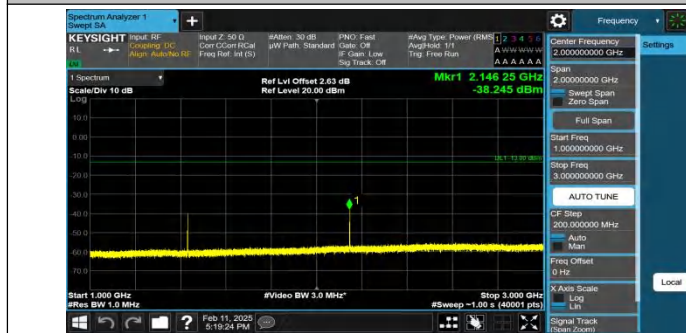
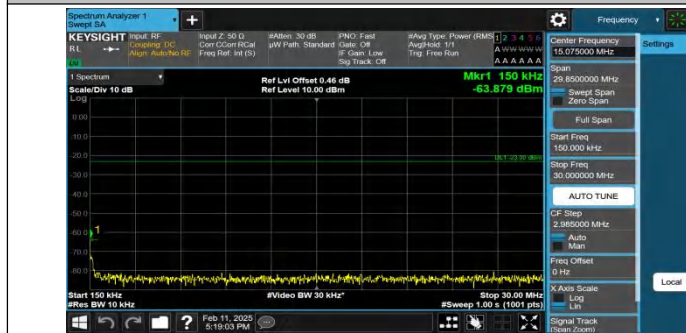
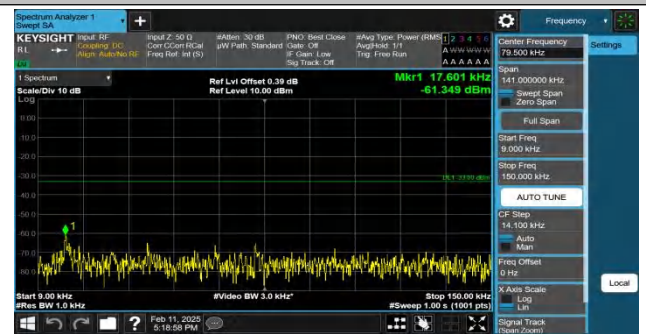
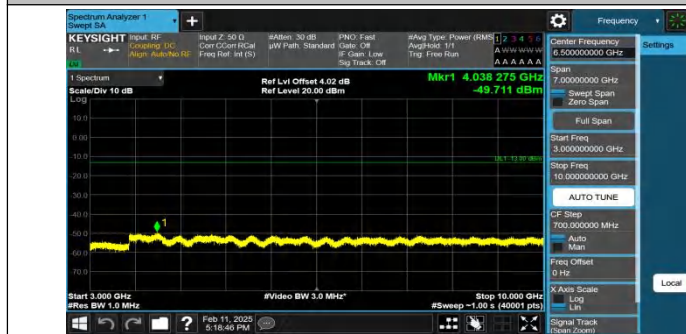
Band12-5MHz-QPSK-23095-1RB#24-3000~10000-PASS











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	2430.00	3.434629	±NA	703.03693	711.96793	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	VL	NT	-1000.00	-1.413428	±NA	703.03595	711.96205	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	VH	NT	370.00	0.522968	±NA	703.03392	711.96682	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	-440.00	-0.621908	±NA	703.03491	711.96421	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	-20	-2690.00	-3.802120	±NA	703.03231	711.96231	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	-10	-2520.00	-3.561837	±NA	703.03118	711.96378	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	0	-190.00	-0.268551	±NA	703.03536	711.96426	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	10	2590.00	3.660777	±NA	703.03699	711.96819	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	20	860.00	1.215548	±NA	703.03476	711.96696	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	30	-170.00	-0.240283	±NA	703.03393	711.96573	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	40	980.00	1.385159	±NA	703.03893	711.96303	699-716	PASS
Band 12	10MHz	QPSK	23095	50RB#0	NV	50	-1780.00	-2.515901	±NA	703.03562	711.96082	699-716	PASS

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