

Appendix-A LTE Band 7

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.89	26.89	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.68	26.68	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	24.14	27.14	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	23.04	26.04	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.78	26.78	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.26	26.26	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.51	26.51	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.65	25.65	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.16	26.16	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.61	25.61	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.05	26.05	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.97	24.97	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	24.16	27.16	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	24.28	27.28	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.92	26.92	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	23.38	26.38	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.6	26.6	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.5	26.5	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.41	26.41	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.65	25.65	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.99	25.99	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.9	25.9	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.01	26.01	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.93	24.93	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.94	26.94	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	24	27	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.53	26.53	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	23.33	26.33	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.64	26.64	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.46	26.46	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.31	26.31	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.66	25.66	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.27	26.27	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.98	25.98	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.42	26.42	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.99	24.99	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	24.14	27.14	33.00	PASS

Band7	20MHz	QPSK	20850	1RB#49	24.19	27.19	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.58	26.58	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	23.08	26.08	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.77	26.77	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.57	26.57	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.29	26.29	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.54	25.54	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.42	26.42	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.15	26.15	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.44	26.44	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.96	24.96	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	23.79	26.79	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	23.12	26.12	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	23.82	26.82	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	22.5	25.5	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	23.95	26.95	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	23.55	26.55	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	23.58	26.58	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	22.63	25.63	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	23.88	26.88	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	23.39	26.39	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	23.8	26.8	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	22.68	25.68	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	24.03	27.03	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	23.79	26.79	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	23.81	26.81	33.00	PASS
Band7	10MHz	16QAM	20800	27RB#0	22.89	25.89	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	23.81	26.81	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.76	26.76	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	23.87	26.87	33.00	PASS
Band7	10MHz	16QAM	21100	27RB#0	22.88	25.88	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	23.86	26.86	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	23.69	26.69	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	23.84	26.84	33.00	PASS
Band7	10MHz	16QAM	21400	27RB#0	22.55	25.55	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	24	27	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	23.71	26.71	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	23.79	26.79	33.00	PASS
Band7	15MHz	16QAM	20825	27RB#0	22.55	25.55	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	23.85	26.85	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	23.59	26.59	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	24.1	27.1	33.00	PASS
Band7	15MHz	16QAM	21100	27RB#0	22.89	25.89	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	23.77	26.77	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	23.7	26.7	33.00	PASS

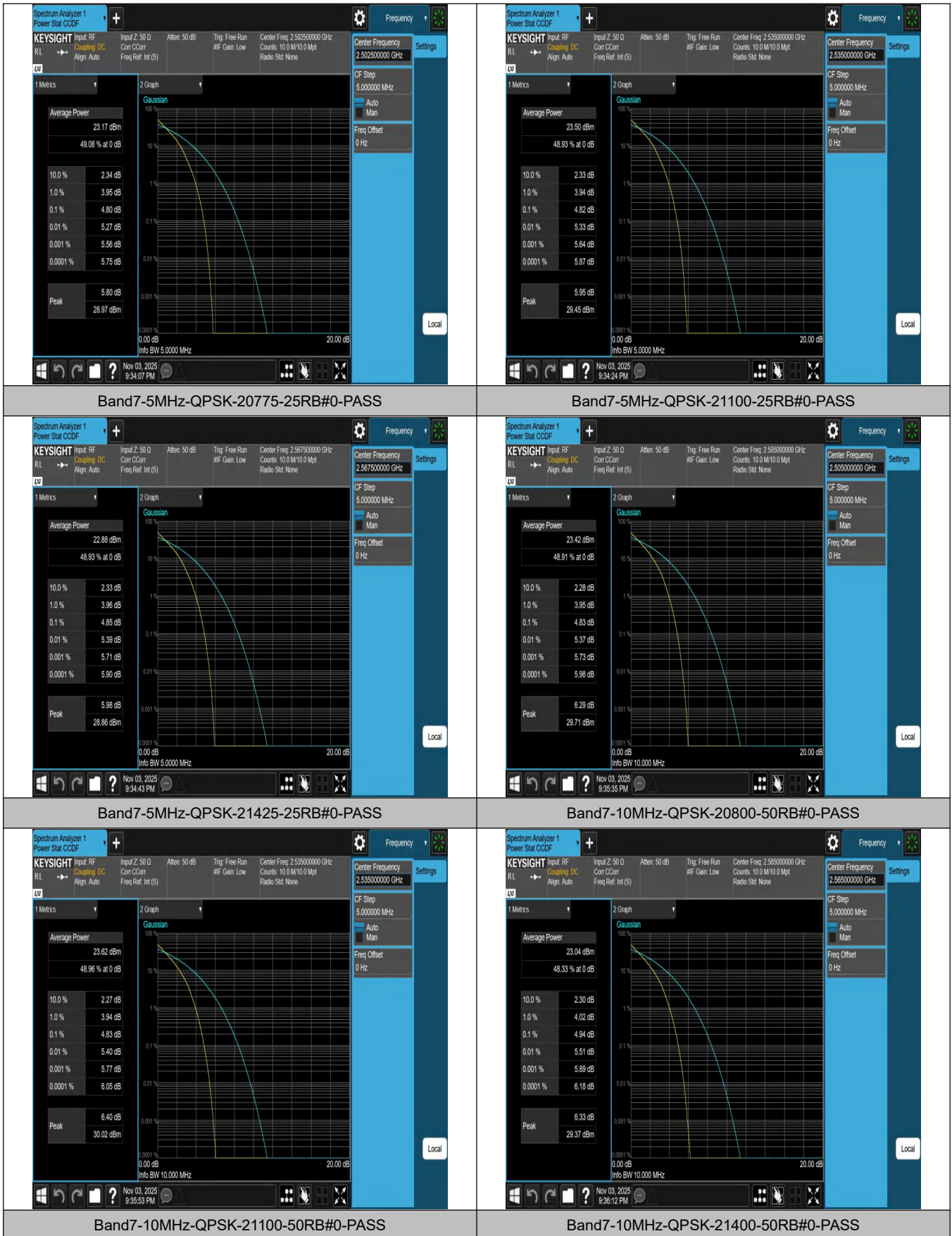
Band7	15MHz	16QAM	21375	1RB#74	24.29	27.29	33.00	PASS
Band7	15MHz	16QAM	21375	27RB#0	22.54	25.54	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	23.78	26.78	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	23.97	26.97	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	23.46	26.46	33.00	PASS
Band7	20MHz	16QAM	20850	27RB#0	22.41	25.41	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	24.04	27.04	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.79	26.79	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	23.98	26.98	33.00	PASS
Band7	20MHz	16QAM	21100	27RB#0	22.86	25.86	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	24.18	27.18	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	24.33	27.33	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	24.2	27.2	33.00	PASS
Band7	20MHz	16QAM	21350	27RB#0	22.12	25.12	33.00	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.80	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.82	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.85	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	4.83	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	4.83	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	4.94	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	4.85	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	4.86	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	4.90	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	4.83	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.79	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.81	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.67	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.75	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.78	13	PASS
Band7	10MHz	16QAM	20800	27RB#0	6.53	13	PASS
Band7	10MHz	16QAM	21100	27RB#0	6.26	13	PASS
Band7	10MHz	16QAM	21400	27RB#0	6.39	13	PASS
Band7	15MHz	16QAM	20825	27RB#0	6.53	13	PASS
Band7	15MHz	16QAM	21100	27RB#0	6.25	13	PASS
Band7	15MHz	16QAM	21375	27RB#0	6.51	13	PASS
Band7	20MHz	16QAM	20850	27RB#0	6.58	13	PASS
Band7	20MHz	16QAM	21100	27RB#0	6.22	13	PASS
Band7	20MHz	16QAM	21350	27RB#0	6.57	13	PASS

Test Graphs





Band7-15MHz-QPSK-20825-75RB#0-PASS



Band7-15MHz-QPSK-21100-75RB#0-PASS



Band7-15MHz-QPSK-21375-75RB#0-PASS



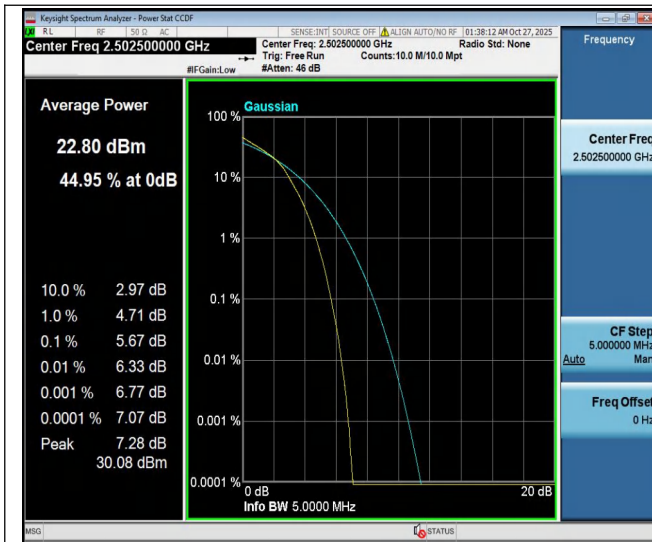
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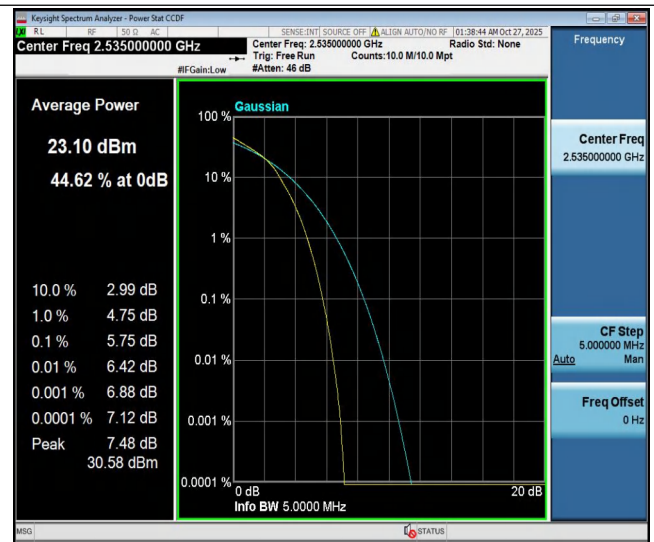
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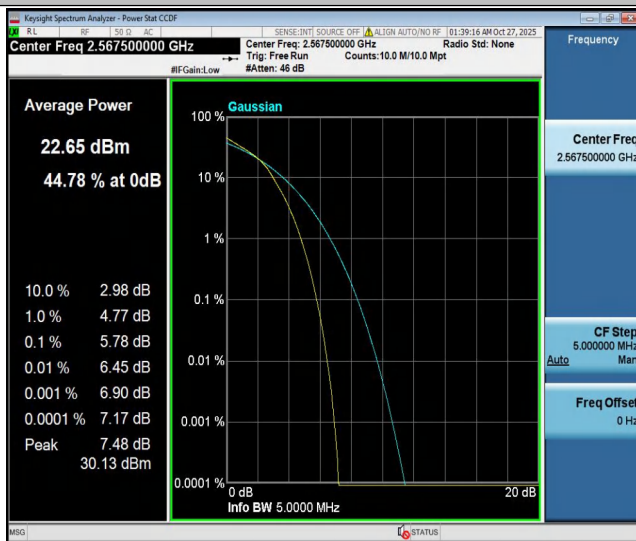
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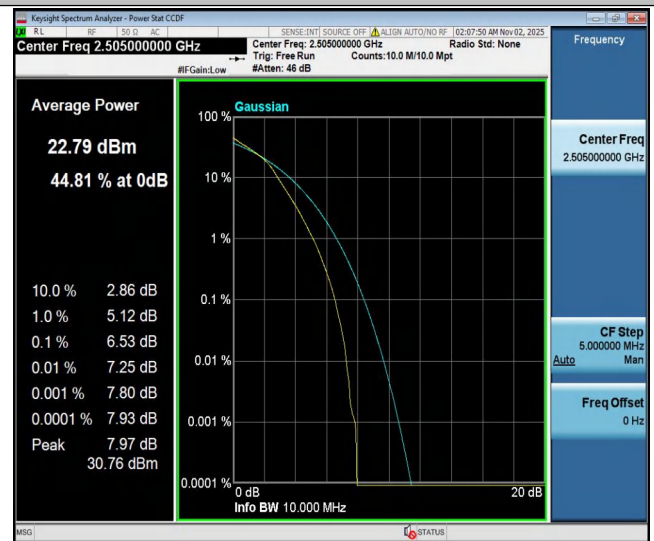
Band7-5MHz-16QAM-20775-25RB#0-PASS



Band7-5MHz-16QAM-21100-25RB#0-PASS



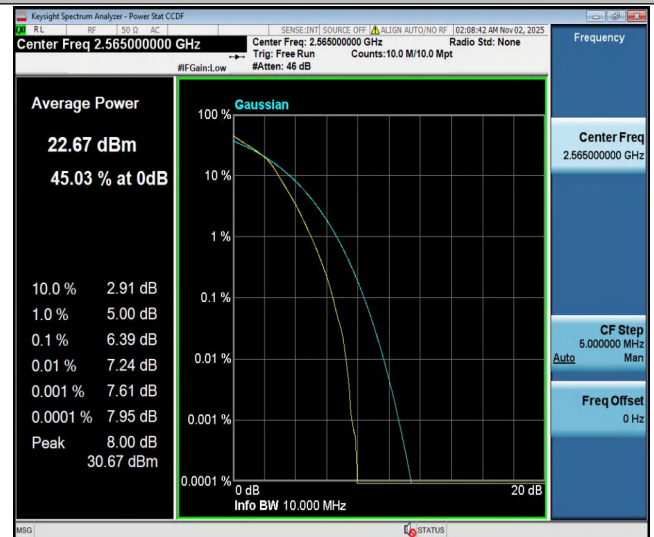
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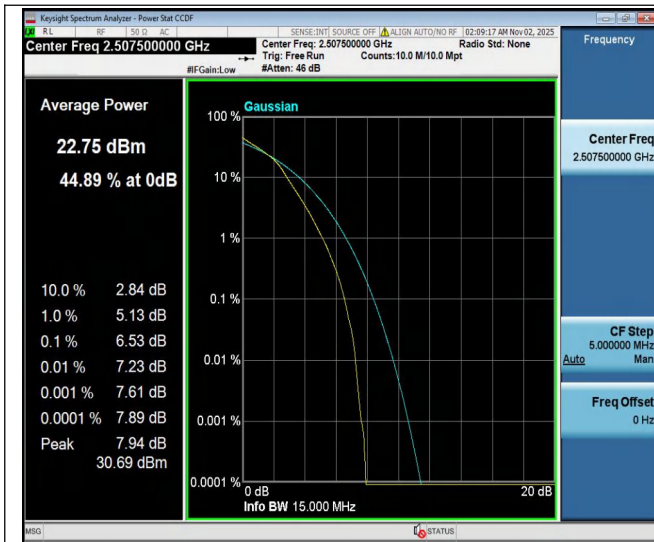
Band7-10MHz-16QAM-20800-27RB#0-PASS



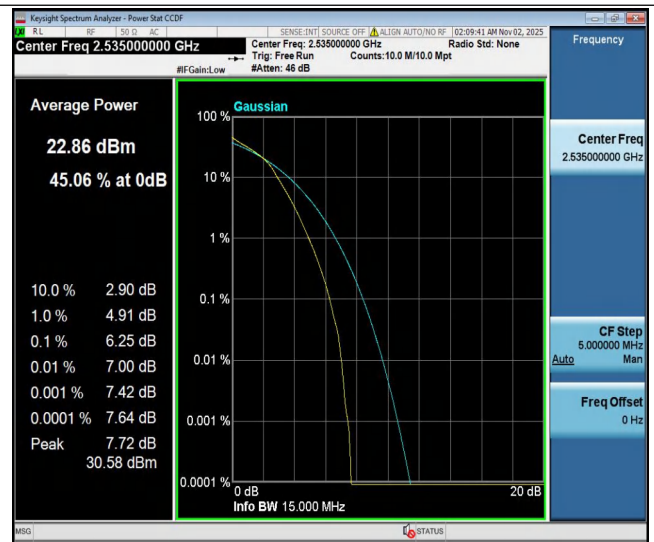
Band7-10MHz-16QAM-21100-27RB#0-PASS



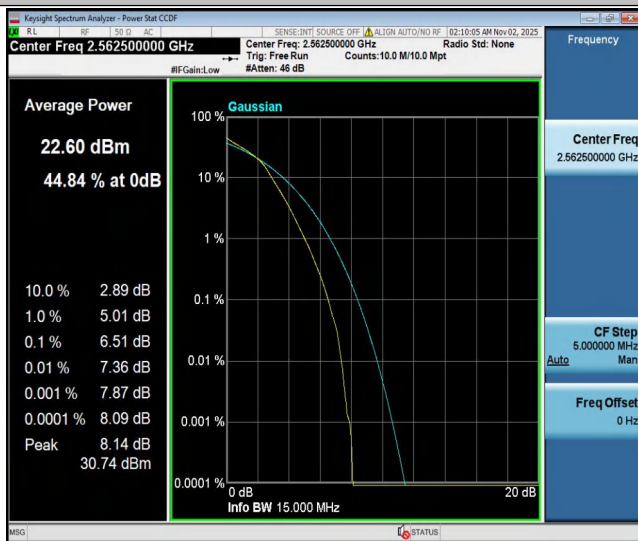
Band7-10MHz-16QAM-21400-27RB#0-PASS



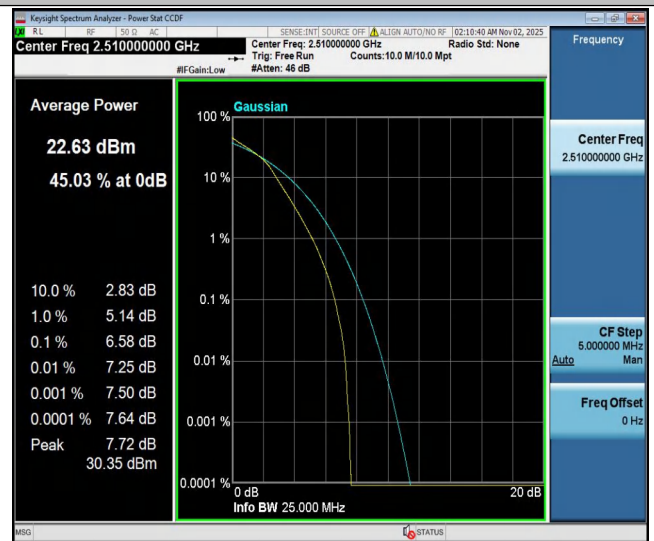
Band7-15MHz-16QAM-20825-27RB#0-PASS



Band7-15MHz-16QAM-21100-27RB#0-PASS



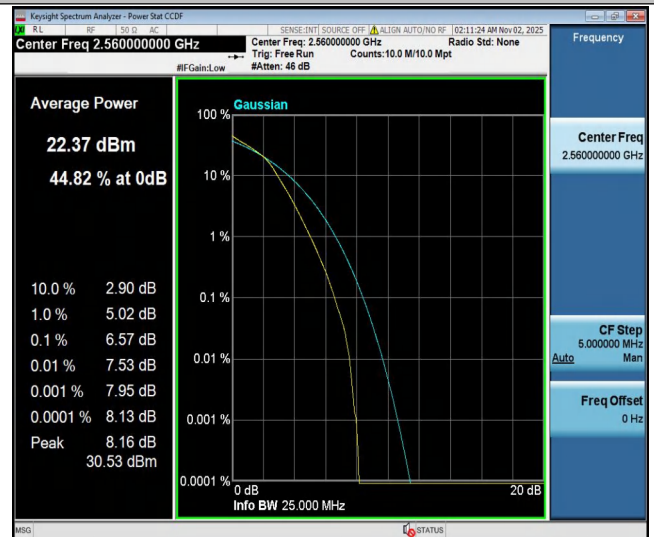
Band7-15MHz-16QAM-21375-27RB#0-PASS



Band7-20MHz-16QAM-20850-27RB#0-PASS



Band7-20MHz-16QAM-21100-27RB#0-PASS



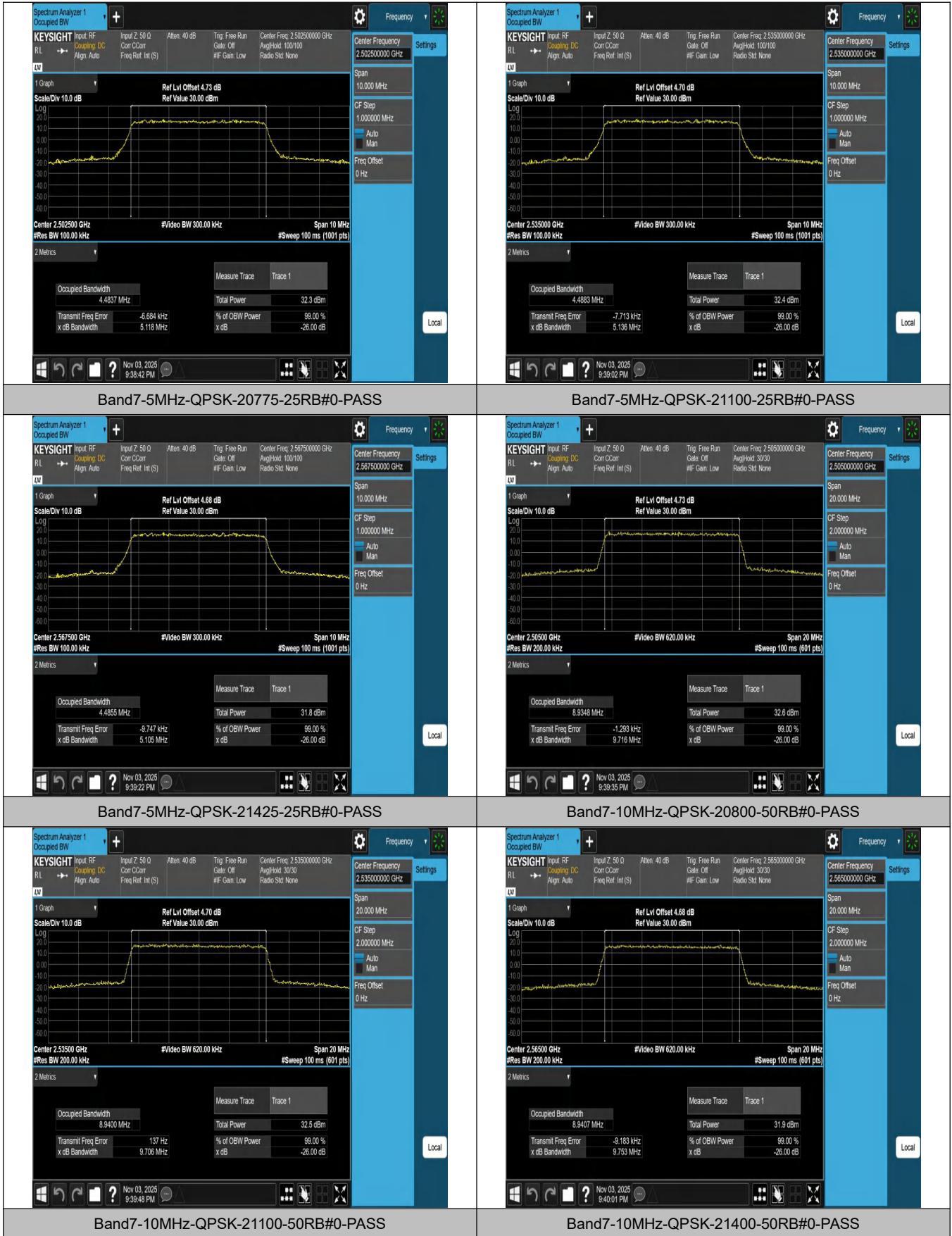
Band7-20MHz-16QAM-21350-27RB#0-PASS

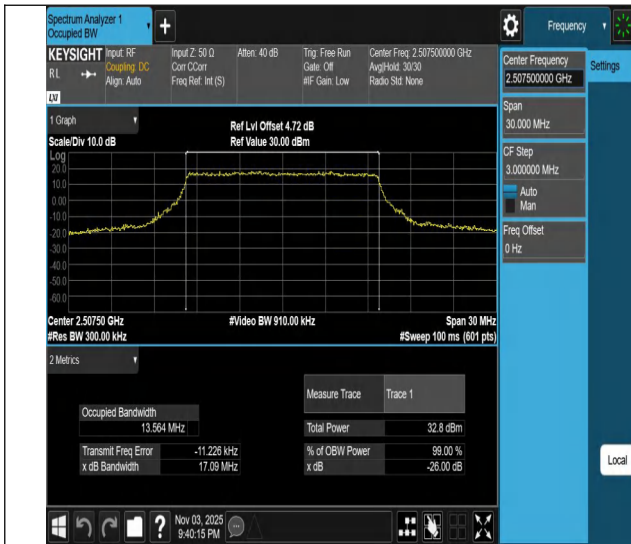
26dB Bandwidth and Occupied Bandwidth

Test Result

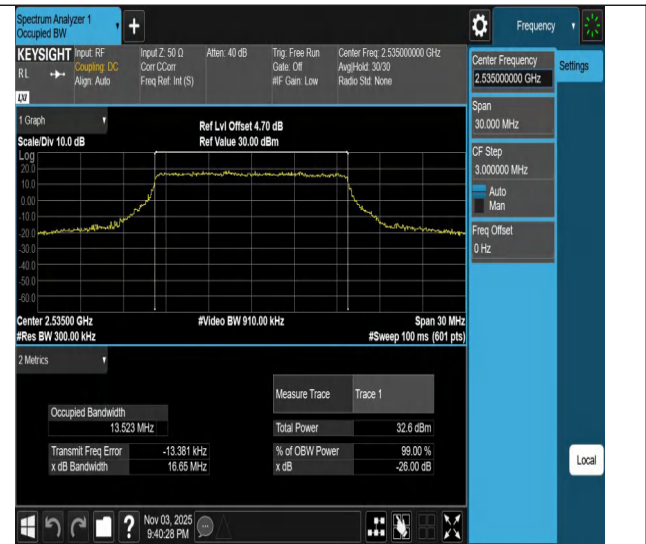
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.4837	5.118	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4883	5.136	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4855	5.105	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9348	9.716	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9400	9.706	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9407	9.753	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.564	17.09	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.523	16.65	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.544	16.60	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.031	21.14	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.029	21.16	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.027	21.16	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4754	5.126	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.4750	5.117	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.4812	5.151	PASS
Band7	10MHz	16QAM	20800	27RB#0	4.9445	5.688	PASS
Band7	10MHz	16QAM	21100	27RB#0	4.9483	5.663	PASS
Band7	10MHz	16QAM	21400	27RB#0	4.9575	5.706	PASS
Band7	15MHz	16QAM	20825	27RB#0	5.0629	5.919	PASS
Band7	15MHz	16QAM	21100	27RB#0	5.0527	5.874	PASS
Band7	15MHz	16QAM	21375	27RB#0	5.0682	5.875	PASS
Band7	20MHz	16QAM	20850	27RB#0	5.2008	6.040	PASS
Band7	20MHz	16QAM	21100	27RB#0	5.1690	6.136	PASS
Band7	20MHz	16QAM	21350	27RB#0	5.2252	6.154	PASS

Test Graphs

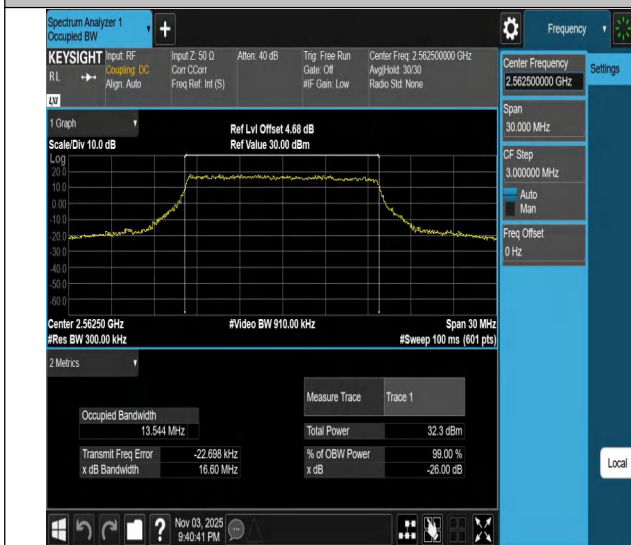




Band7-15MHz-QPSK-20825-75RB#0-PASS



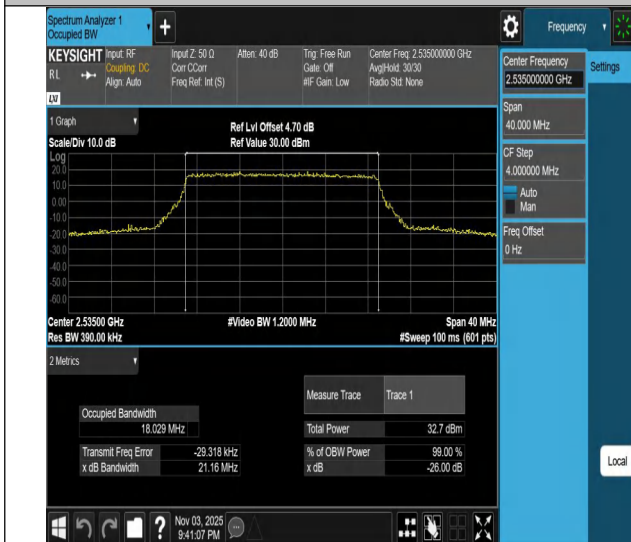
Band7-15MHz-QPSK-21100-75RB#0-PASS



Band7-15MHz-QPSK-21375-75RB#0-PASS



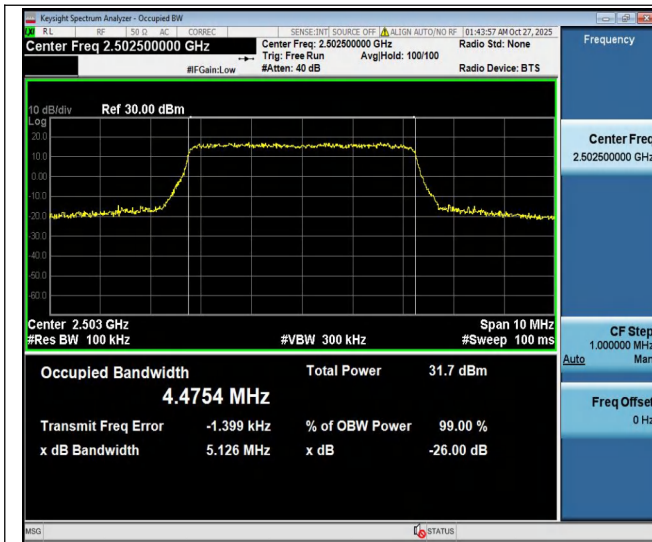
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Band7-20MHz-QPSK-21100-100RB#0-PASS



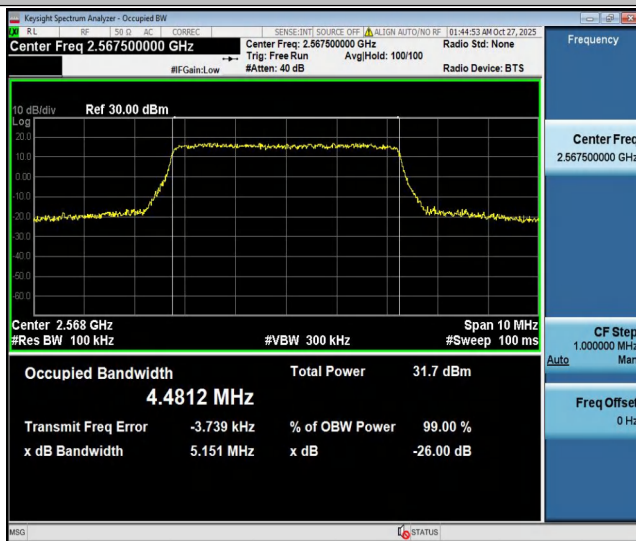
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Band7-5MHz-16QAM-20775-25RB#0-PASS



Band7-5MHz-16QAM-21100-25RB#0-PASS



Band7-5MHz-16QAM-21425-25RB#0-PASS



Band7-10MHz-16QAM-20800-27RB#0-PASS



Band7-10MHz-16QAM-21100-27RB#0-PASS



Band7-10MHz-16QAM-21400-27RB#0-PASS



Band7-15MHz-16QAM-20825-27RB#0-PASS



Band7-15MHz-16QAM-21100-27RB#0-PASS



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Band7-20MHz-16QAM-20850-27RB#0-PASS



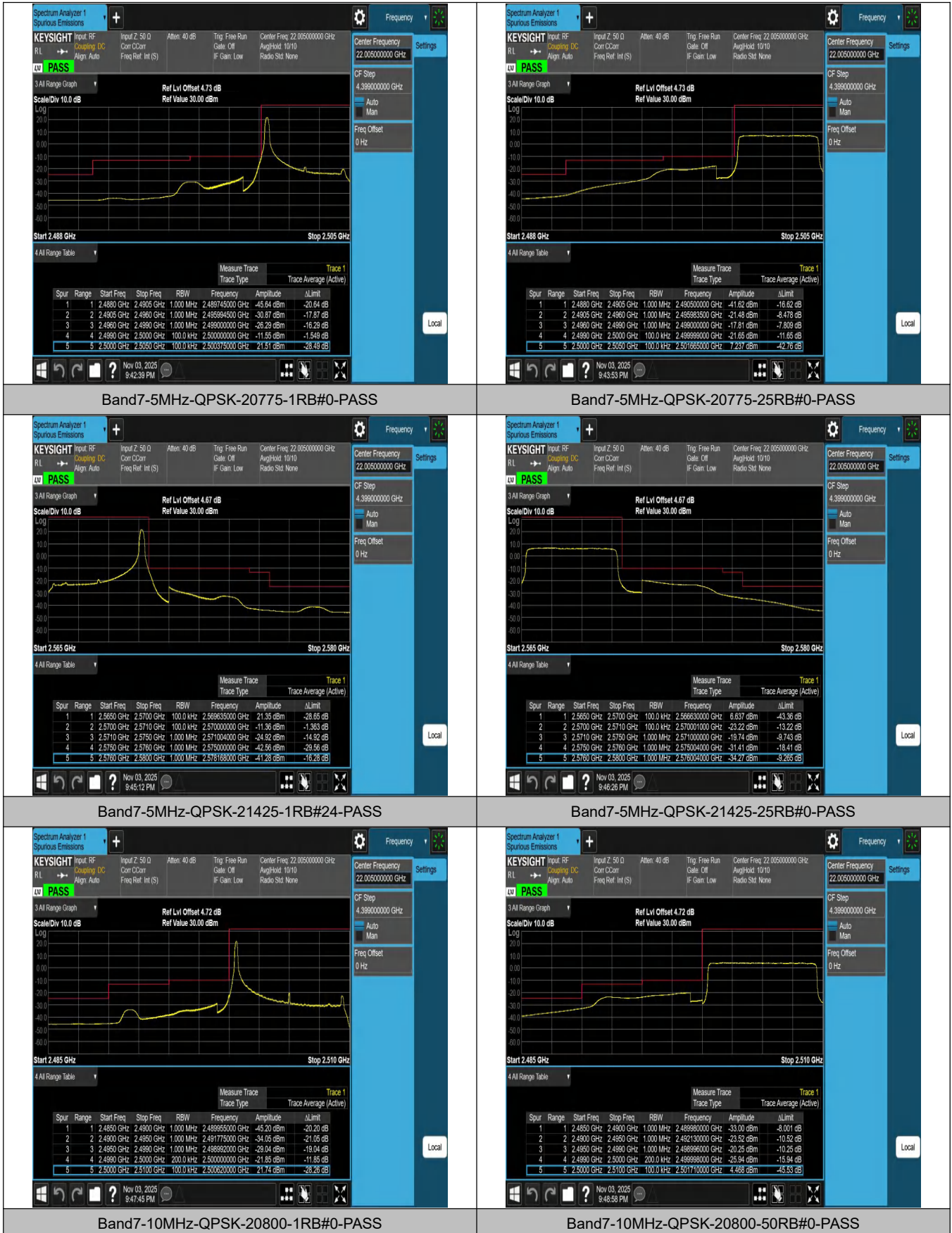
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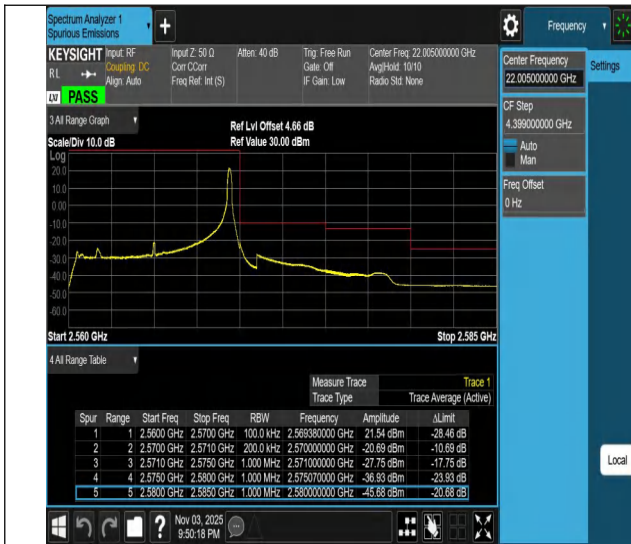


Band7-20MHz-16QAM-21350-27RB#0-PASS

Band Edge

Test Graphs

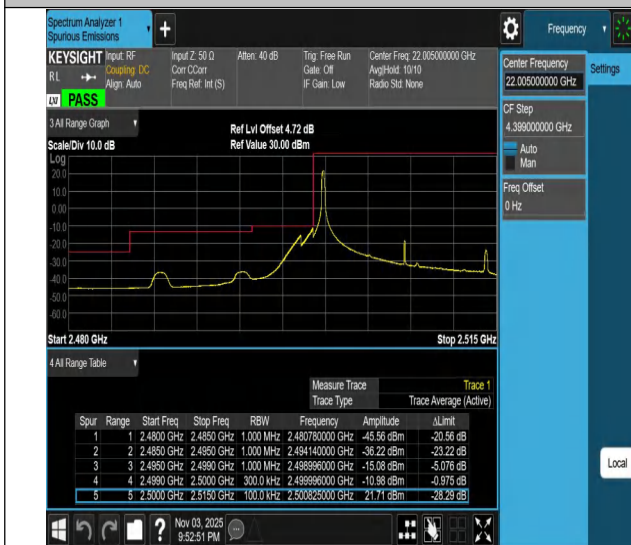




Band7-10MHz-QPSK-21400-1RB#49-PASS



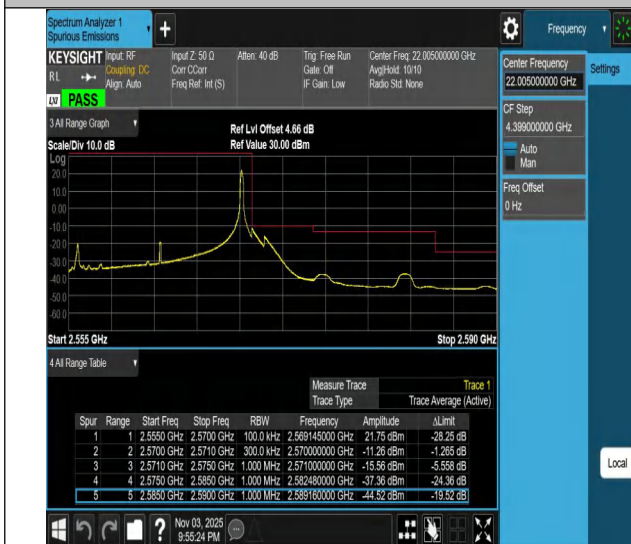
Band7-10MHz-QPSK-21400-50RB#0-PASS



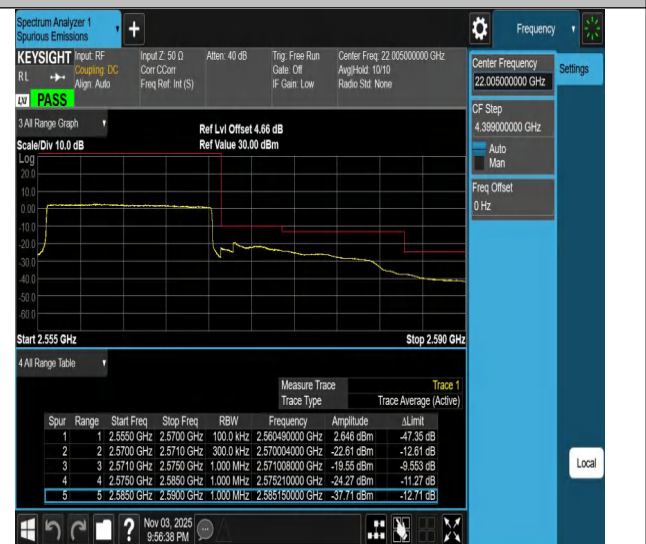
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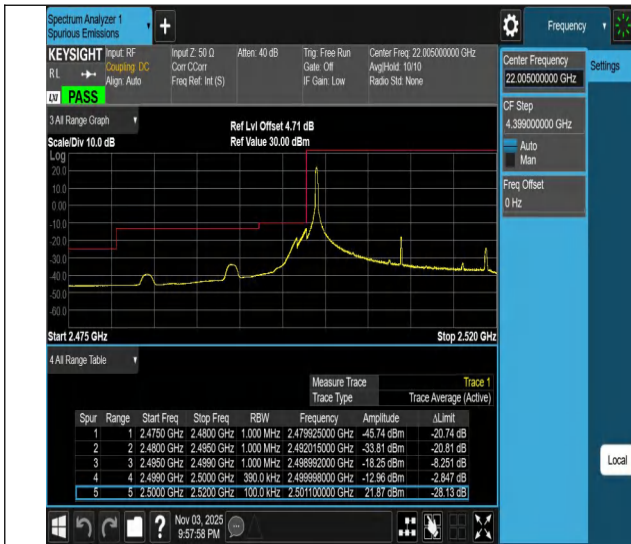
Band7-15MHz-QPSK-20825-75RB#0-PASS



Band7-15MHz-QPSK-21375-1RB#74-PASS



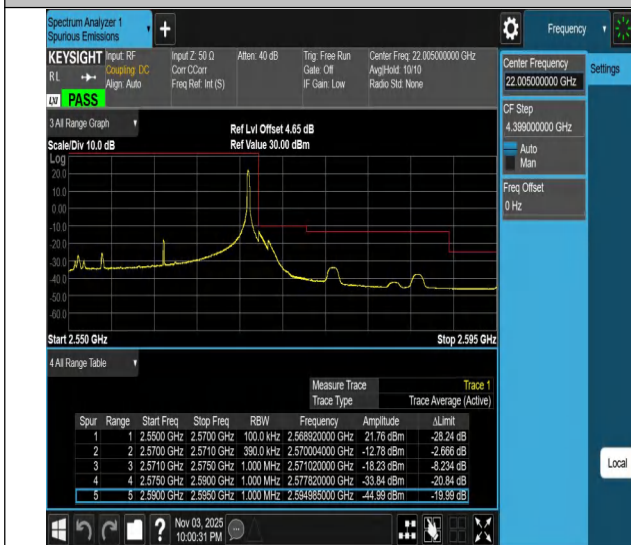
Band7-15MHz-QPSK-21375-75RB#0-PASS



Band7-20MHz-QPSK-20850-1RB#0-PASS



Band7-20MHz-QPSK-20850-100RB#0-PASS



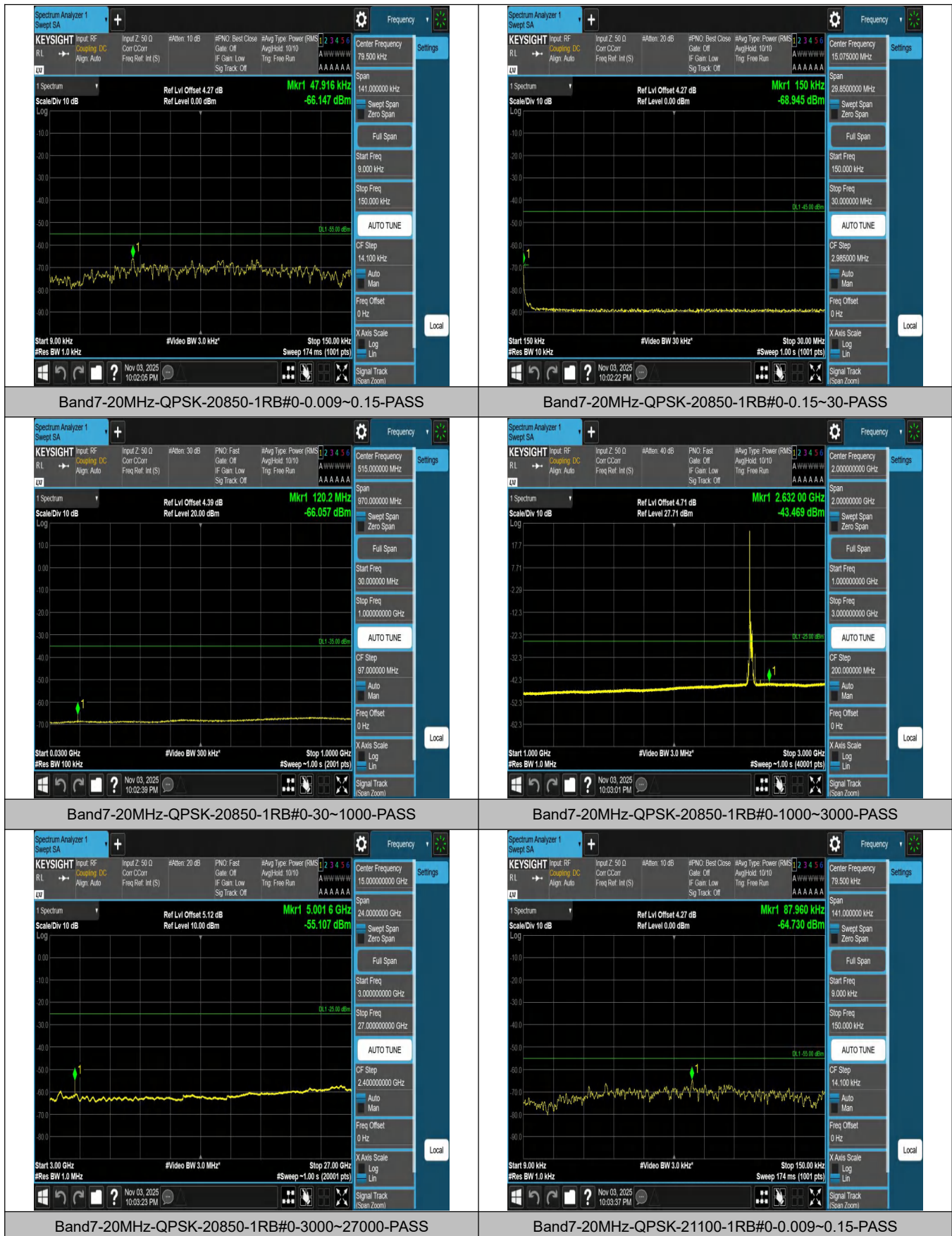
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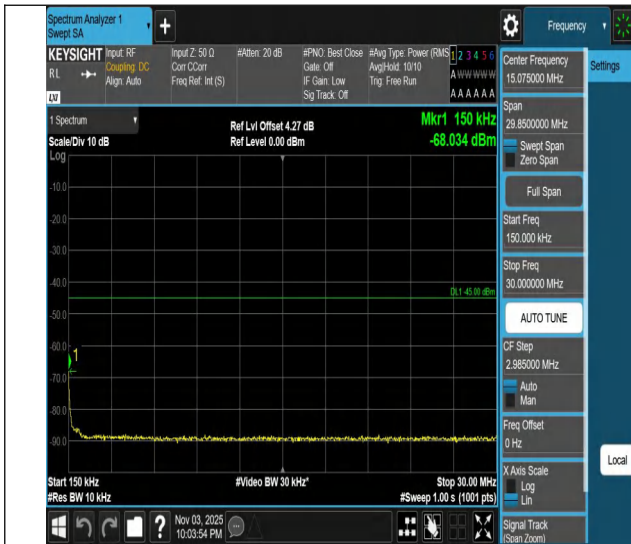


Band7-20MHz-QPSK-21350-100RB#0-PASS

Conducted Spurious Emission

Test Graphs





Band7-20MHz-QPSK-21100-1RB#0-0.15~30-PASS



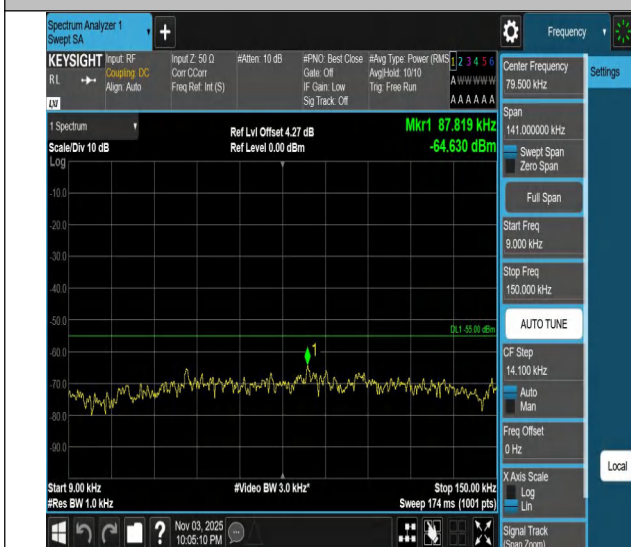
Band7-20MHz-QPSK-21100-1RB#0-30~1000-PASS



Band7-20MHz-QPSK-21100-1RB#0-1000~3000-PASS



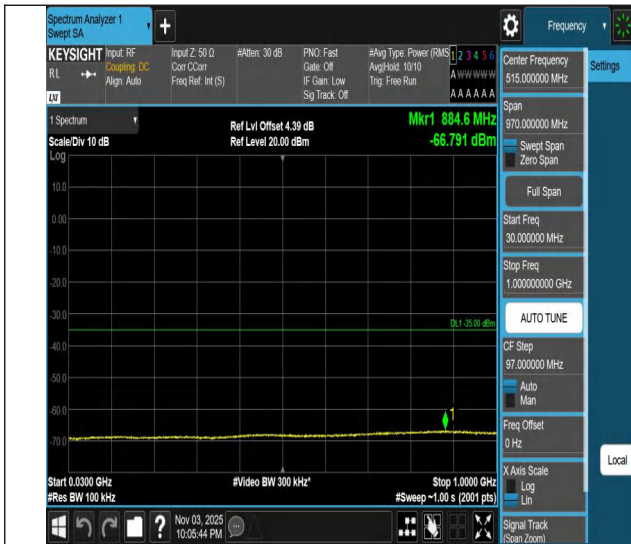
Band7-20MHz-QPSK-21100-1RB#0-3000~27000-PASS



Band7-20MHz-QPSK-21350-1RB#0-0.009~0.15-PASS



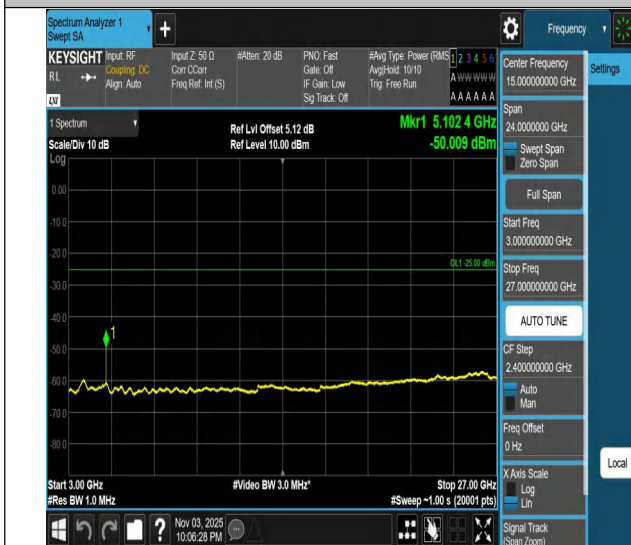
Band7-20MHz-QPSK-21350-1RB#0-0.15~30-PASS



Band7-20MHz-QPSK-21350-1RB#0-30~1000-PASS



Band7-20MHz-QPSK-21350-1RB#0-1000~3000-PASS



Band7-20MHz-QPSK-21350-1RB#0-3000~27000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-8.34	-0.003290	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	10.66	0.004205	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	8.20	0.003235	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	6.61	0.002607	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	6.25	0.002465	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	7.00	0.002761	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	9.03	0.003562	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-7.80	-0.003077	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	7.85	0.003097	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-11.32	-0.004465	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-5.64	-0.002225	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-6.14	-0.002422	PASS

~The End~