

Appendix-B LTE Band 14

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	23.86	19.45	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.79	19.38	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.7	19.29	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	23.79	19.38	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.76	19.35	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.71	19.3	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.6	19.19	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	23.68	19.27	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.64	19.23	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.62	19.21	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.54	19.13	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	23.59	19.18	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.74	19.33	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.77	19.36	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.67	19.26	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.79	18.38	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.65	19.24	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.61	19.2	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.58	19.17	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	22.7	18.29	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.68	19.27	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.74	19.33	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	23.42	19.01	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	22.65	18.24	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	23.31	18.9	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	23	18.59	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	22.53	18.12	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	21.78	17.37	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	22.86	18.45	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.94	18.53	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.66	18.25	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	21.61	17.2	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	22.84	18.43	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	22.92	18.51	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	22.39	17.98	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	21.52	17.11	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	19.93	15.52	34.77	PASS

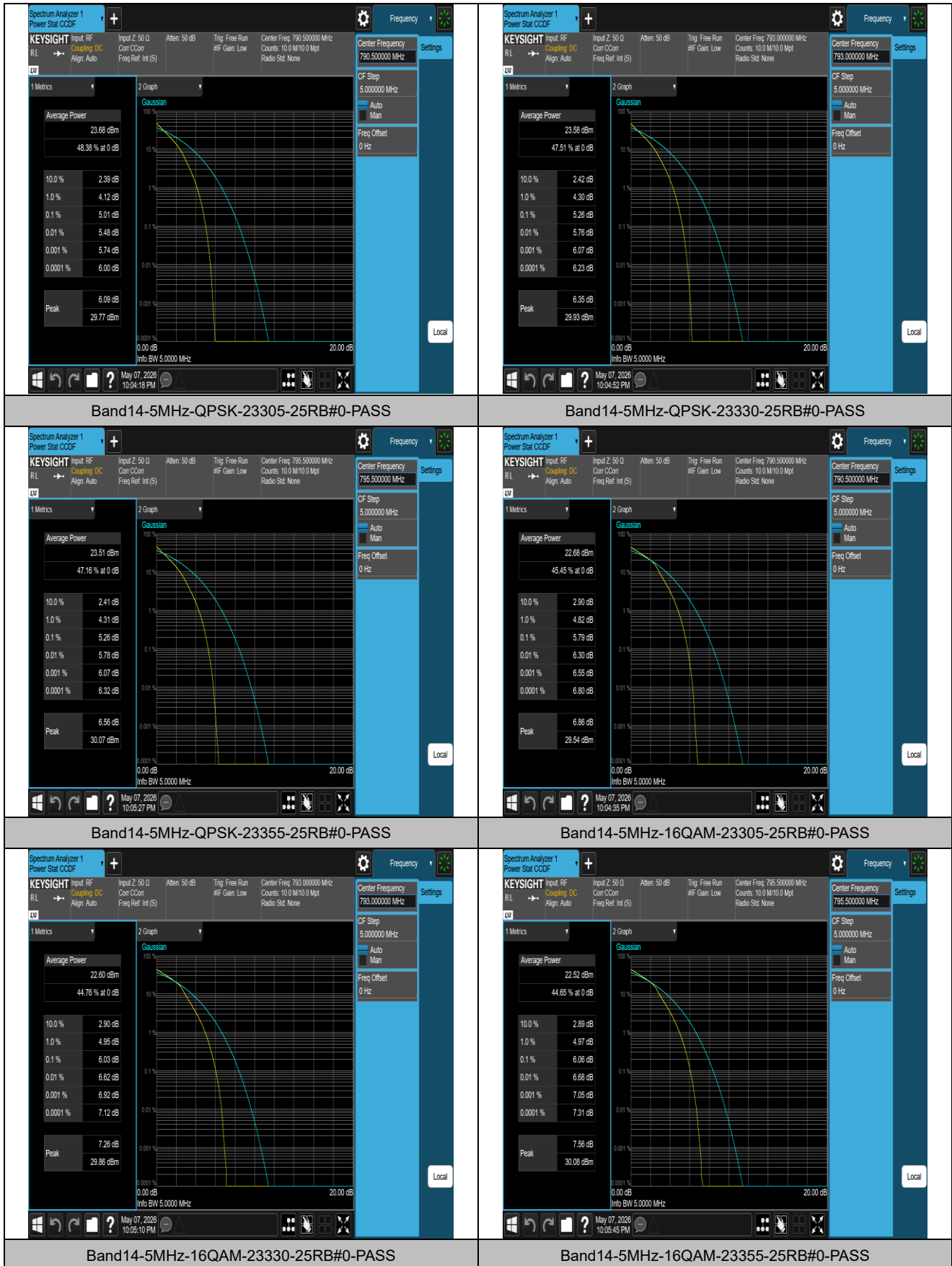
Band14	5MHz	256QAM	23305	1RB#12	19.75	15.34	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	19.76	15.35	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	19.76	15.35	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	19.8	15.39	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	19.96	15.55	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	19.57	15.16	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	19.66	15.25	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	19.48	15.07	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	19.53	15.12	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	19.4	14.99	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	19.52	15.11	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.78	19.37	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.71	19.3	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.54	19.13	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	23.69	19.28	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.79	19.38	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.51	19.1	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	23.32	18.91	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	22.71	18.3	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	23.05	18.64	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	23.1	18.69	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	22.59	18.18	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	21.7	17.29	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	20.06	15.65	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	19.82	15.41	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	19.65	15.24	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	19.64	15.23	34.77	PASS

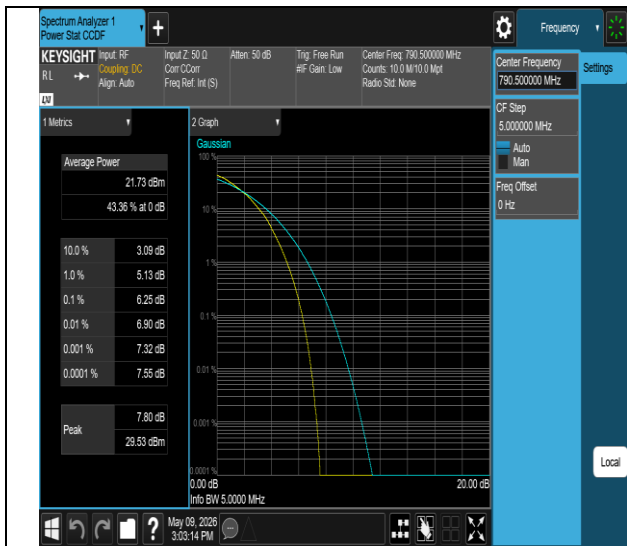
Peak-to-Average Ratio(CCDF)

Test Result

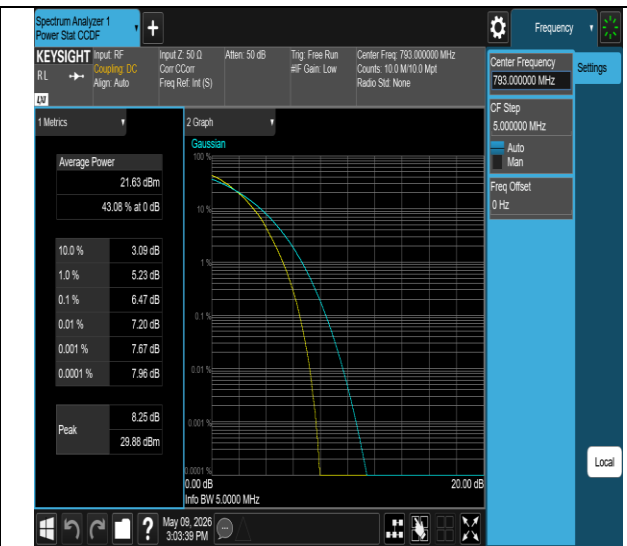
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	5.01	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	5.26	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	5.26	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	5.79	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	6.03	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	6.06	13	PASS
Band14	5MHz	64QAM	23305	25RB#0	6.25	13	PASS
Band14	5MHz	64QAM	23330	25RB#0	6.47	13	PASS
Band14	5MHz	64QAM	23355	25RB#0	6.49	13	PASS
Band14	5MHz	256QAM	23305	25RB#0	6.75	13	PASS
Band14	5MHz	256QAM	23330	25RB#0	6.86	13	PASS
Band14	5MHz	256QAM	23355	25RB#0	6.84	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	5.11	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.94	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.38	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	6.78	13	PASS

Test Graphs

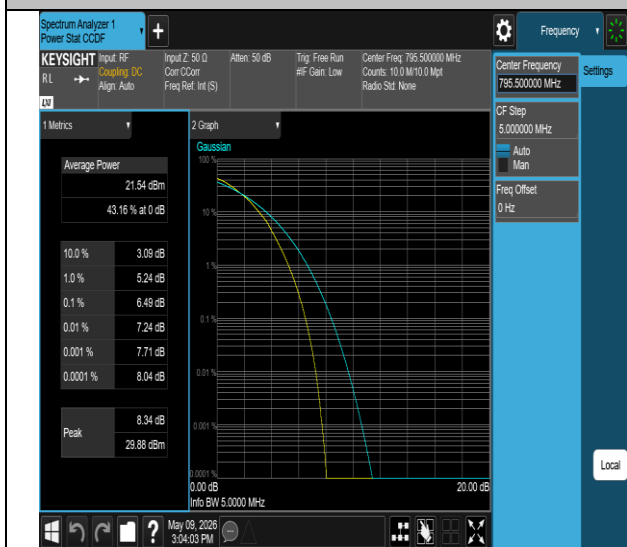




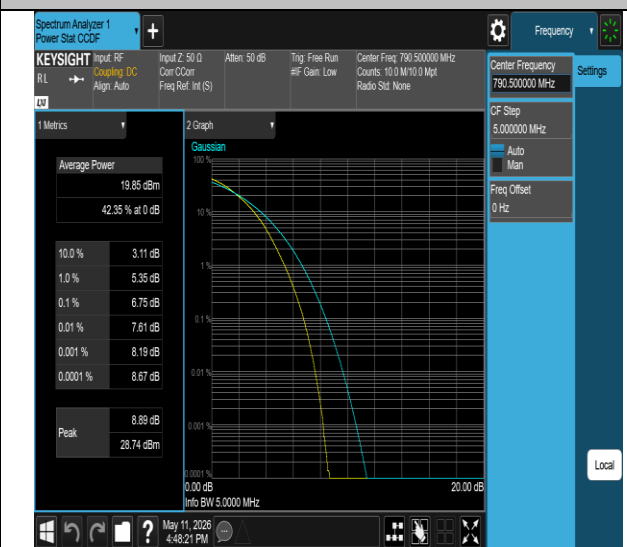
Band14-5MHz-64QAM-23305-25RB#0-PASS



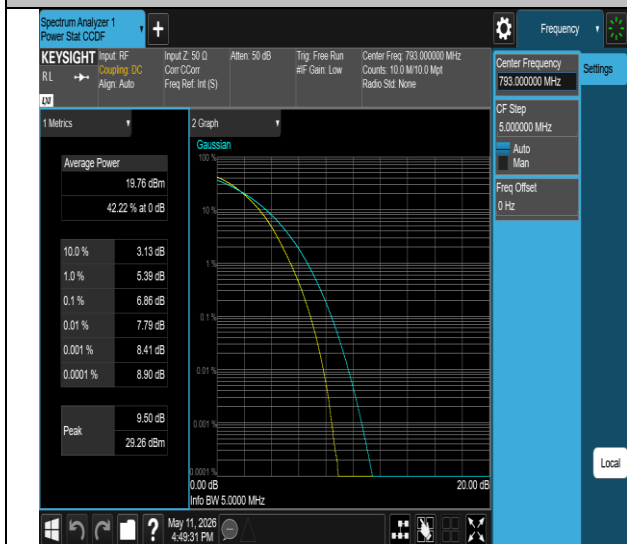
Band14-5MHz-64QAM-23330-25RB#0-PASS



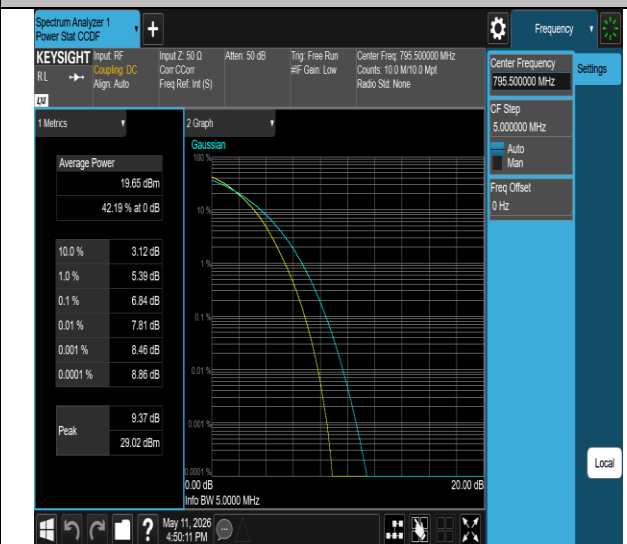
Band14-5MHz-64QAM-23355-25RB#0-PASS



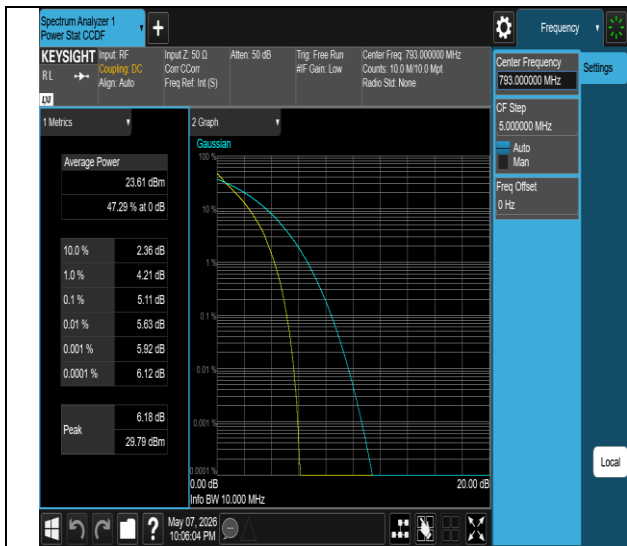
Band14-5MHz-256QAM-23305-25RB#0-PASS



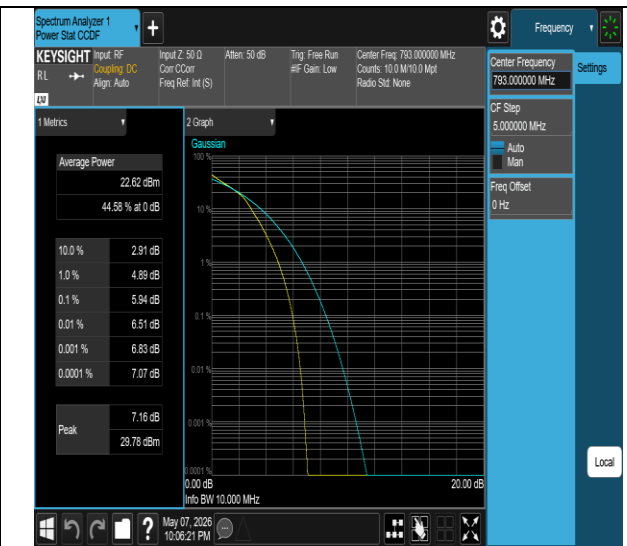
Band14-5MHz-256QAM-23330-25RB#0-PASS



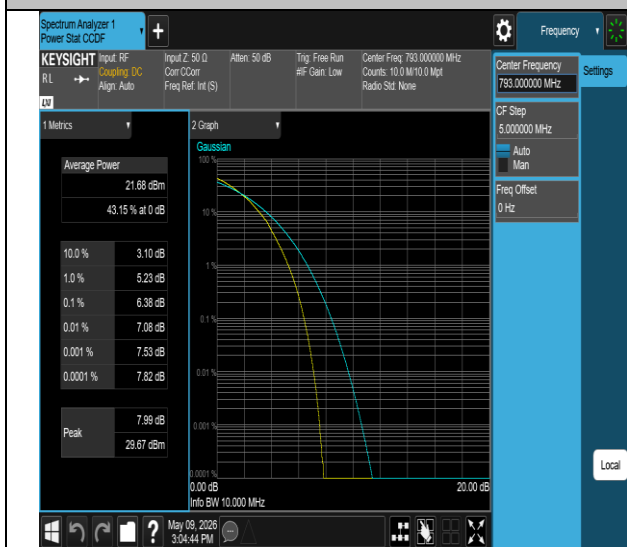
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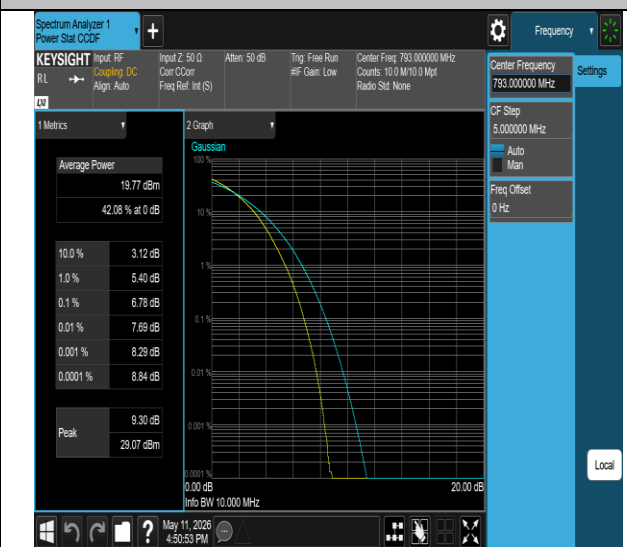
Band14-10MHz-QPSK-23330-50RB#0-PASS



Band14-10MHz-16QAM-23330-50RB#0-PASS



Band14-10MHz-64QAM-23330-50RB#0-PASS



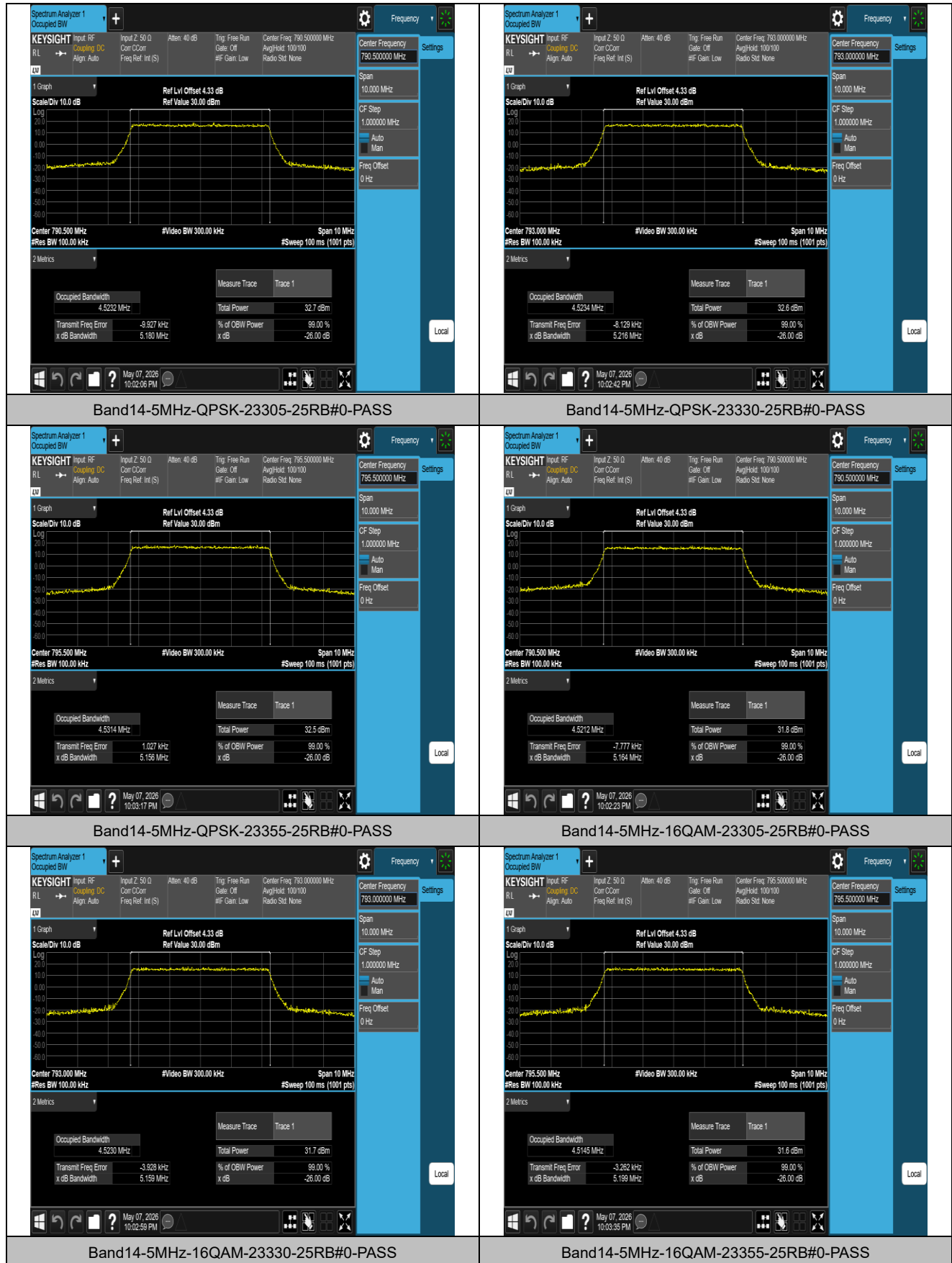
Band14-10MHz-256QAM-23330-50RB#0-PASS

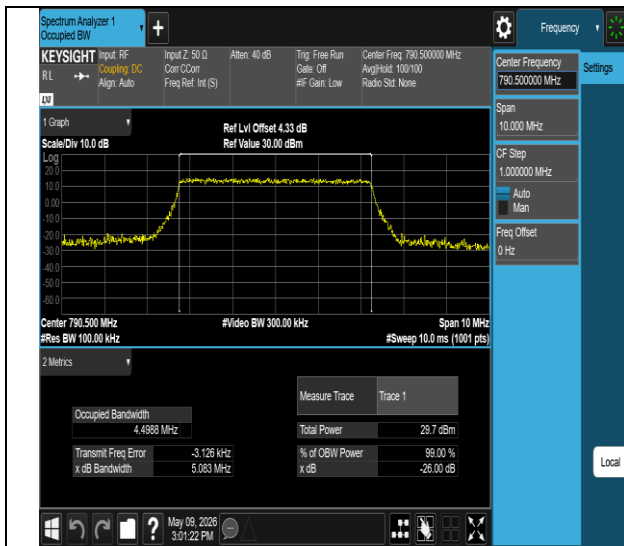
26dB Bandwidth and Occupied Bandwidth

Test Result

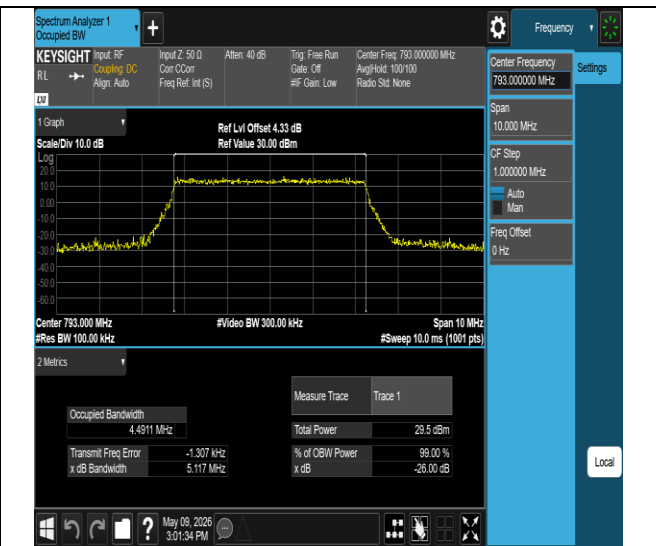
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.5232	5.180	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.5234	5.216	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.5314	5.156	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.5212	5.164	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.5230	5.159	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.5145	5.199	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.4988	5.083	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.4911	5.117	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.5001	5.181	PASS
Band14	5MHz	256QAM	23305	25RB#0	4.5086	5.097	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.4982	5.049	PASS
Band14	5MHz	256QAM	23355	25RB#0	4.5062	5.147	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.9955	10.05	PASS
Band14	10MHz	16QAM	23330	50RB#0	9.0142	10.07	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.9561	9.905	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.9504	10.04	PASS

Test Graphs

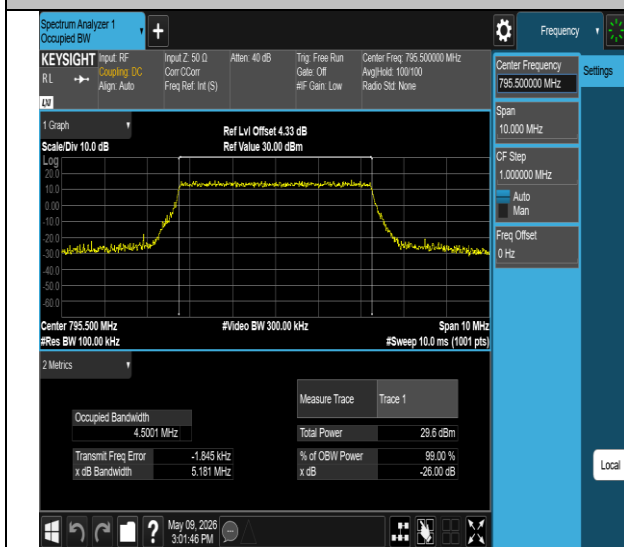




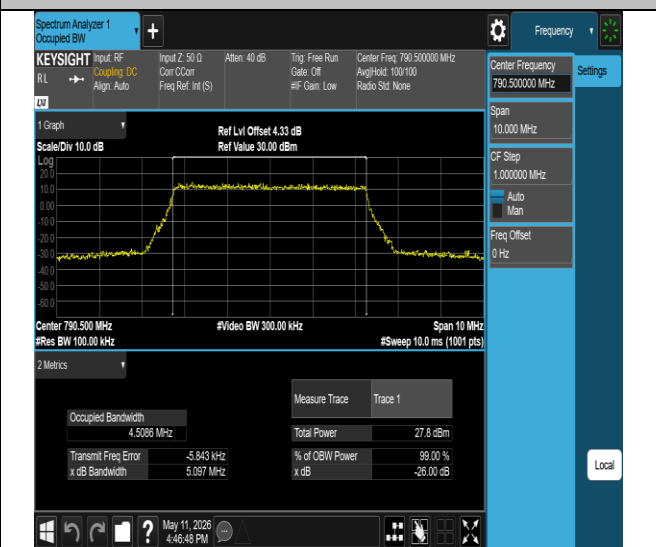
Band14-5MHz-64QAM-23305-25RB#0-PASS



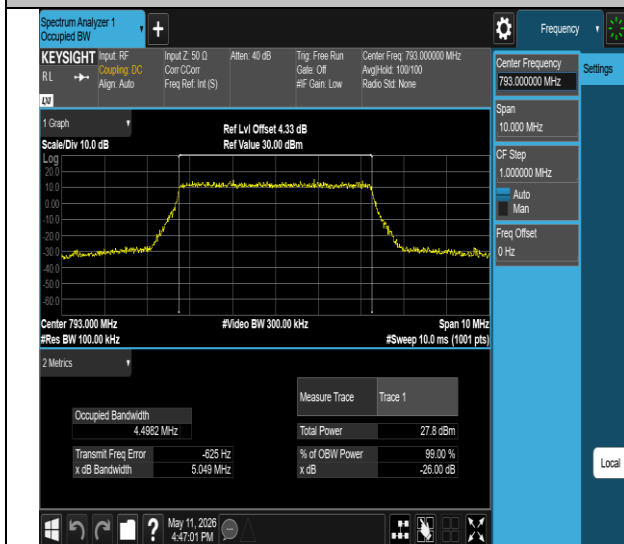
Band14-5MHz-64QAM-23330-25RB#0-PASS



Band14-5MHz-64QAM-23355-25RB#0-PASS



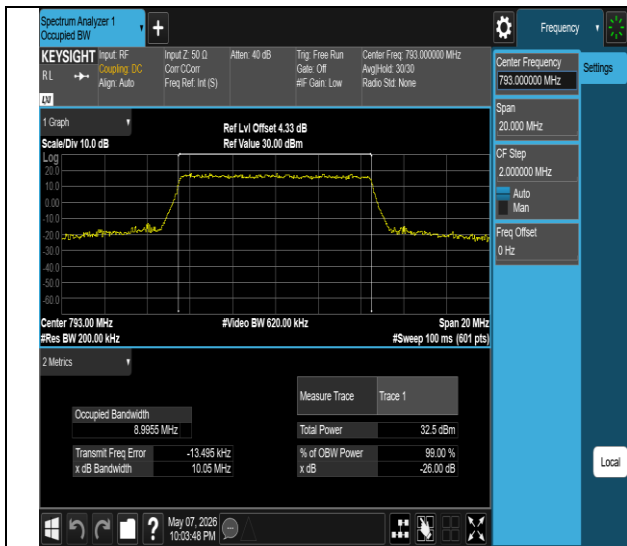
Band14-5MHz-256QAM-23305-25RB#0-PASS



Band14-5MHz-256QAM-23330-25RB#0-PASS



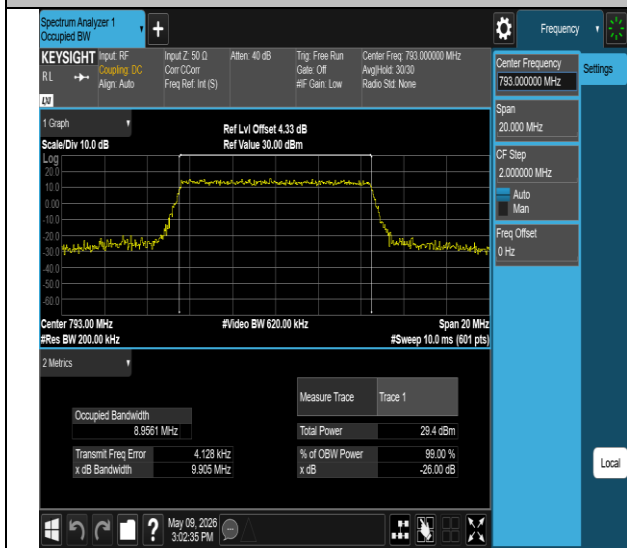
Band14-5MHz-256QAM-23355-25RB#0-PASS



Band14-10MHz-QPSK-23330-50RB#0-PASS



Band14-10MHz-16QAM-23330-50RB#0-PASS



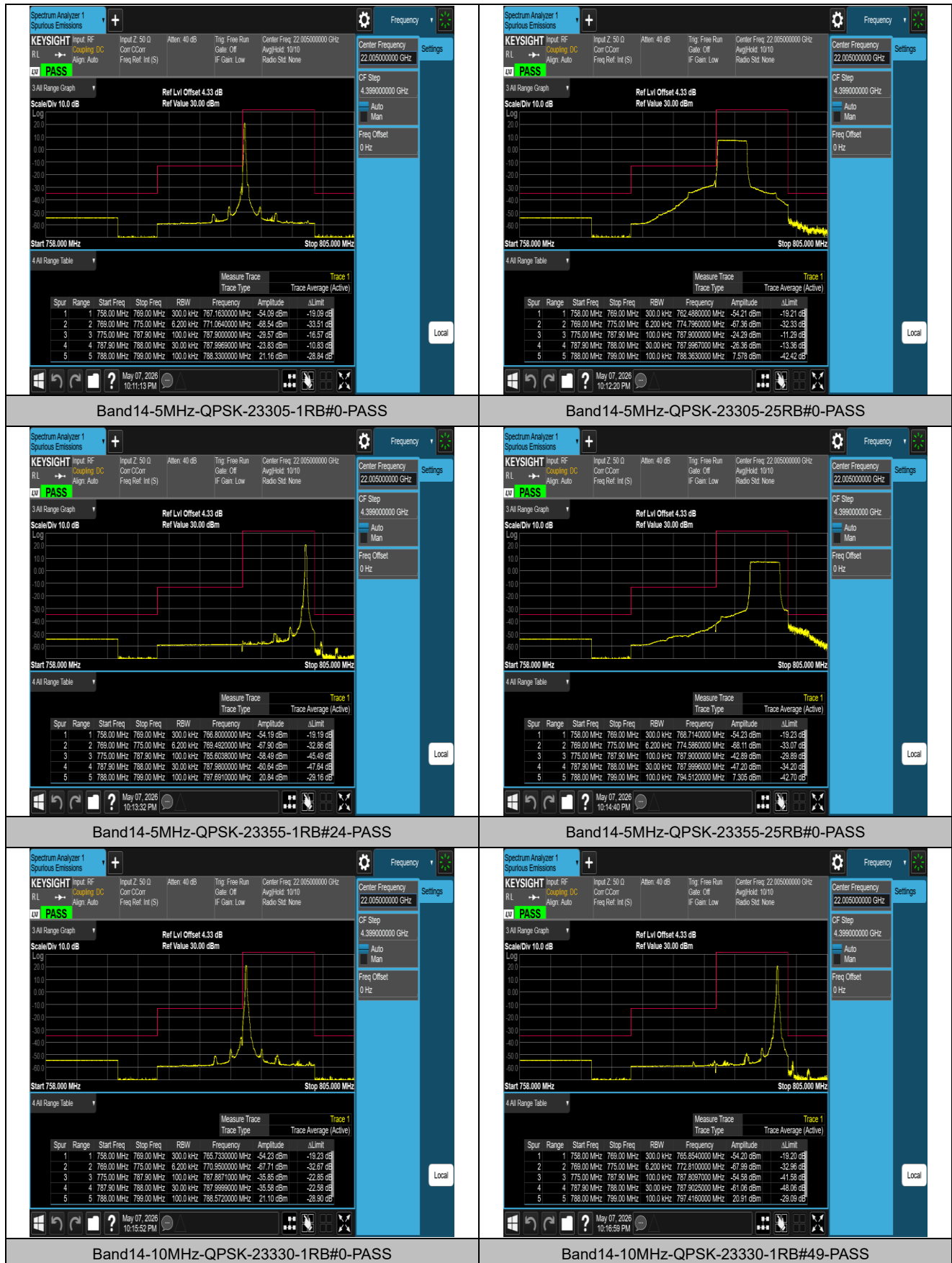
Band14-10MHz-64QAM-23330-50RB#0-PASS

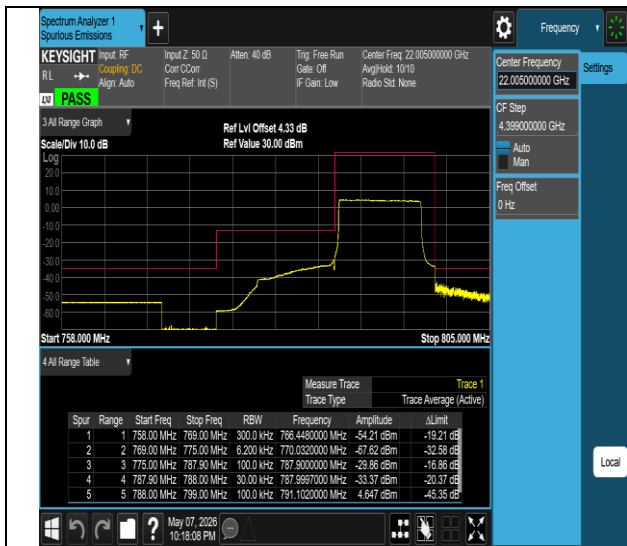


Band14-10MHz-256QAM-23330-50RB#0-PASS

Band Edge

Test Graphs

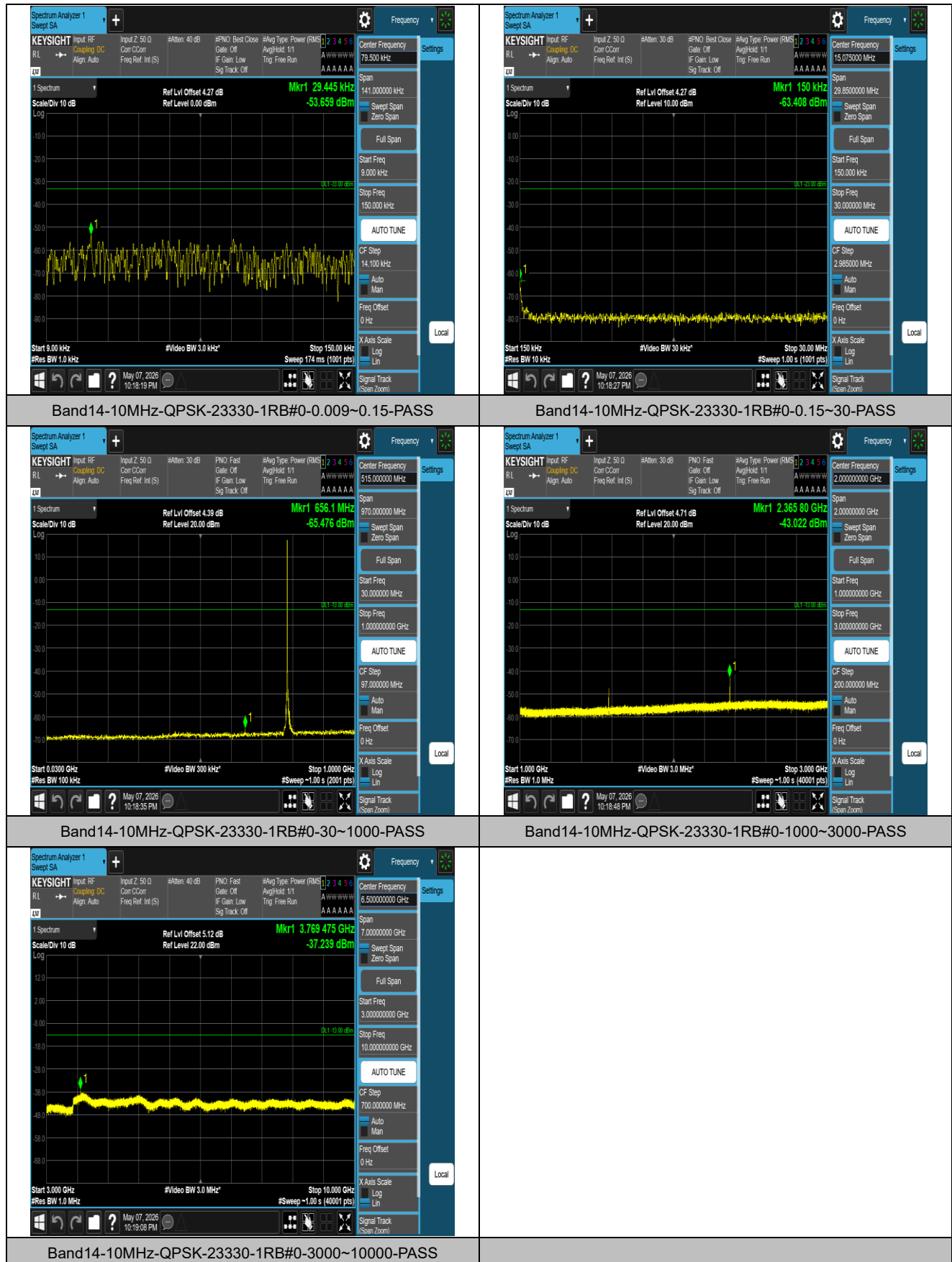




Band14-10MHz-QPSK-23330-50RB#0-PASS

Conducted Spurious Emission

Test Graphs



Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-2.15	-0.002711	PASS
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-2.88	-0.003632	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	1.37	0.001728	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-3.33	-0.004199	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	1.27	0.001602	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-2.05	-0.002585	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-2.76	-0.003480	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-1.96	-0.002472	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-1.50	-0.001892	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-1.96	-0.002472	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	2.70	0.003405	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-4.36	-0.005498	PASS

~The End~