

Appendix-A LTE Band 14

Effective (Isotropic) Radiated Power Output Data

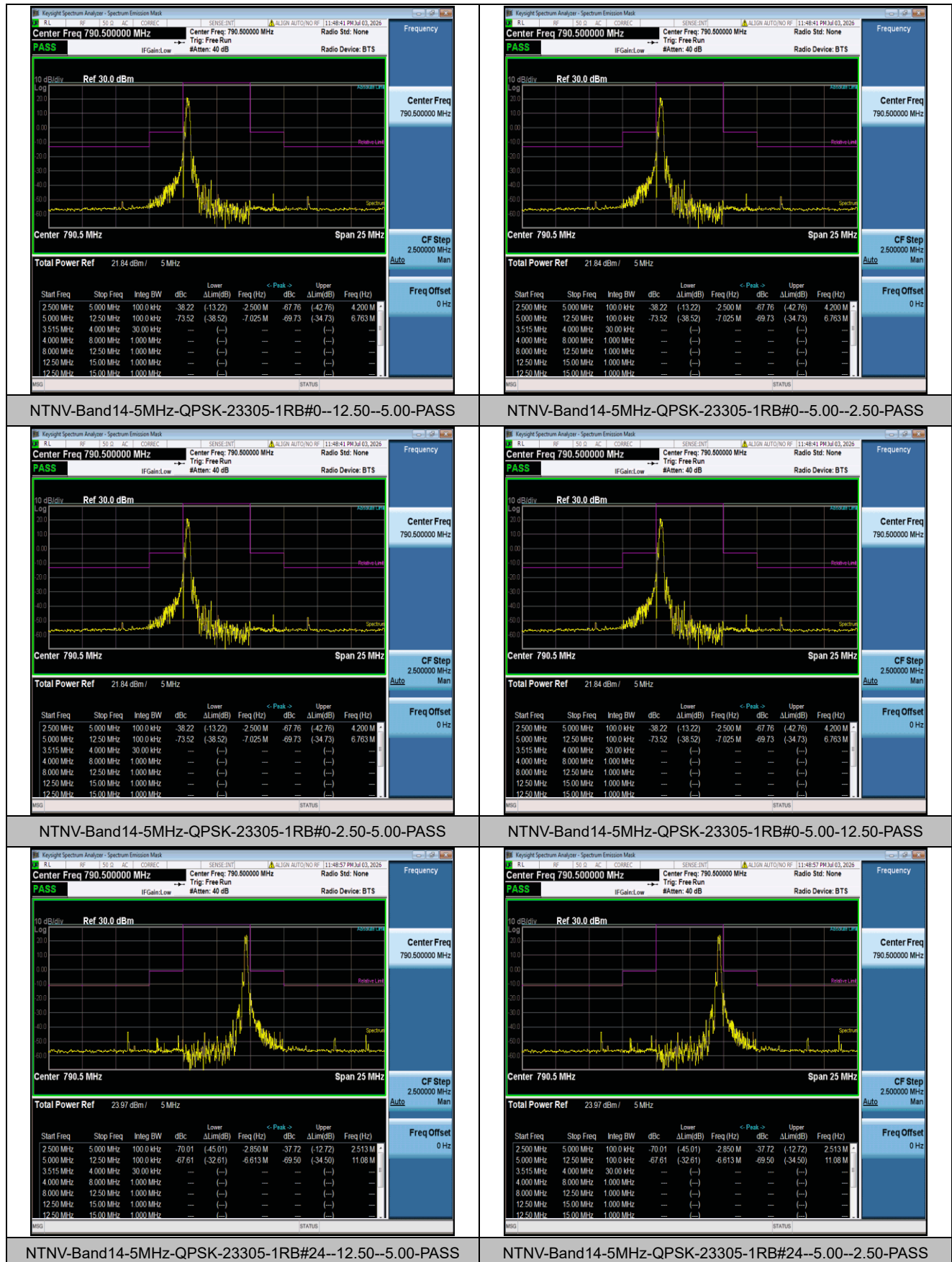
Test Result

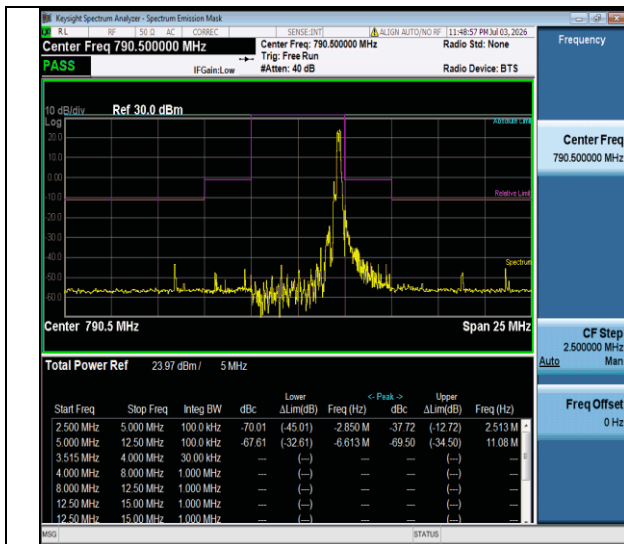
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	24.59	21.94	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	24.62	21.97	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	24.56	21.91	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	23.65	21	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	24.67	22.02	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	24.69	22.04	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	24.58	21.93	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	23.61	20.96	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	24.58	21.93	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	24.62	21.97	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	24.54	21.89	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	23.64	20.99	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.59	20.94	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.6	20.95	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.48	20.83	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.67	20.02	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.6	20.95	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.59	20.94	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.62	20.97	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	22.6	19.95	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.59	20.94	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.79	21.14	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	23.58	20.93	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	22.59	19.94	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	22.78	20.13	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	22.64	19.99	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	22.89	20.24	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	21.59	18.94	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	22.66	20.01	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.95	20.3	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.61	19.96	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	21.58	18.93	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	22.93	20.28	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	22.63	19.98	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	22.58	19.93	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	21.51	18.86	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	19.6	16.95	34.77	PASS

Band14	5MHz	256QAM	23305	1RB#12	19.67	17.02	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	19.67	17.02	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	19.65	17	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	19.09	16.44	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	19.74	17.09	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	19.5	16.85	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	19.49	16.84	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	19.02	16.37	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	19.64	16.99	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	19.43	16.78	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	19.47	16.82	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	24.56	21.91	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	24.67	22.02	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	24.5	21.85	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	23.63	20.98	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.65	21	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.63	20.98	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	23.57	20.92	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	22.61	19.96	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	22.88	20.23	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	22.84	20.19	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	22.76	20.11	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	21.56	18.91	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	19.58	16.93	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	19.66	17.01	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	19.54	16.89	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	19.5	16.85	34.77	PASS

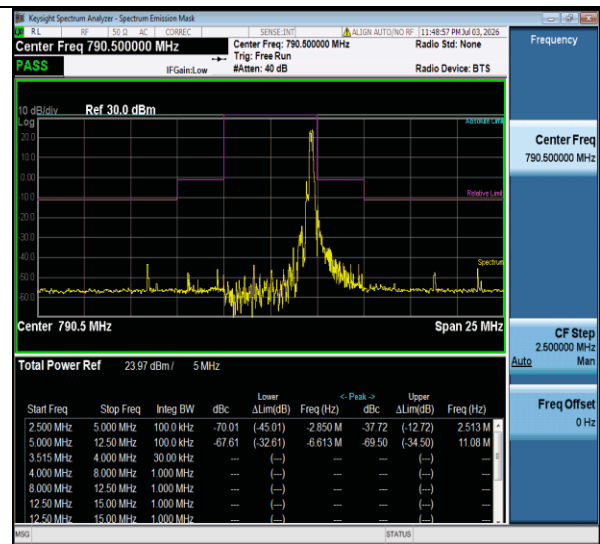
Spectrum_emission_mask

Test Graphs





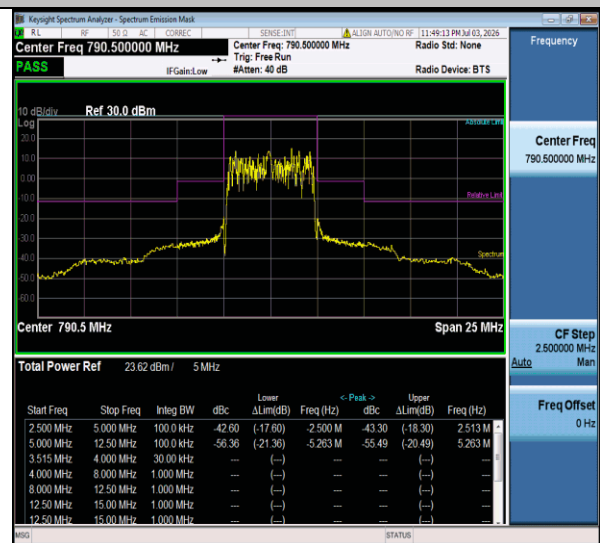
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NTN-Band14-5MHz-QPSK-23305-1RB#24-5.00-12.50-PASS



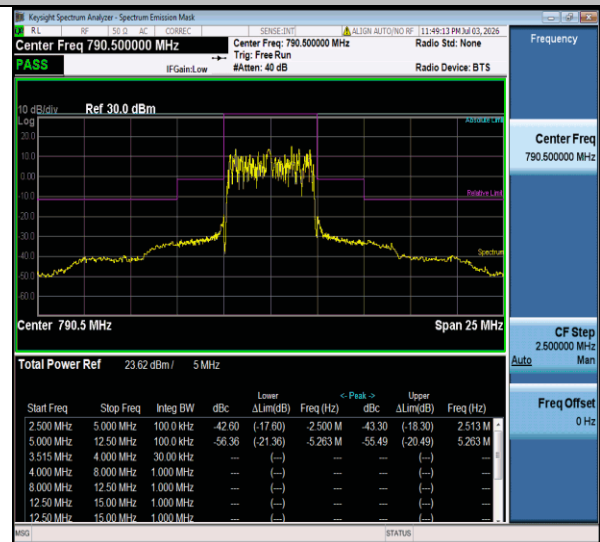
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NTN-Band14-5MHz-QPSK-23305-25RB#0--5.00--2.50-PASS



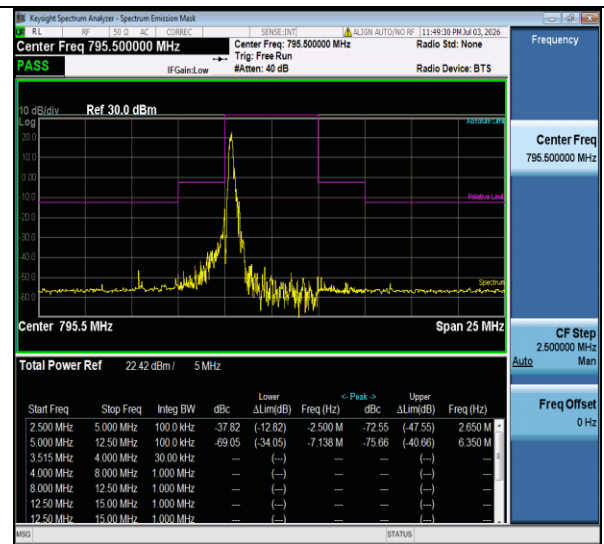
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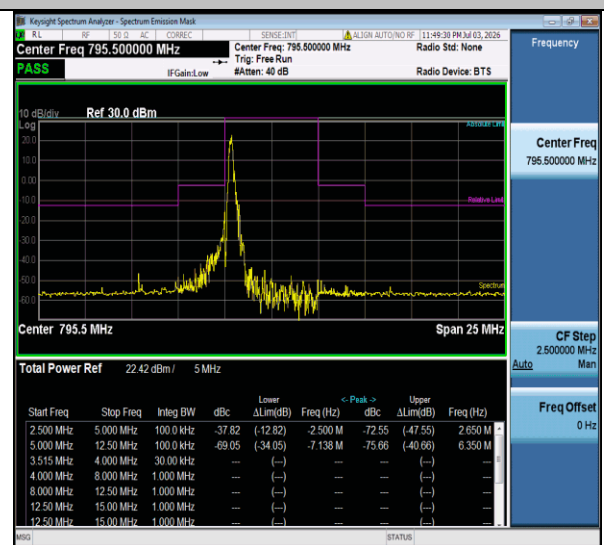
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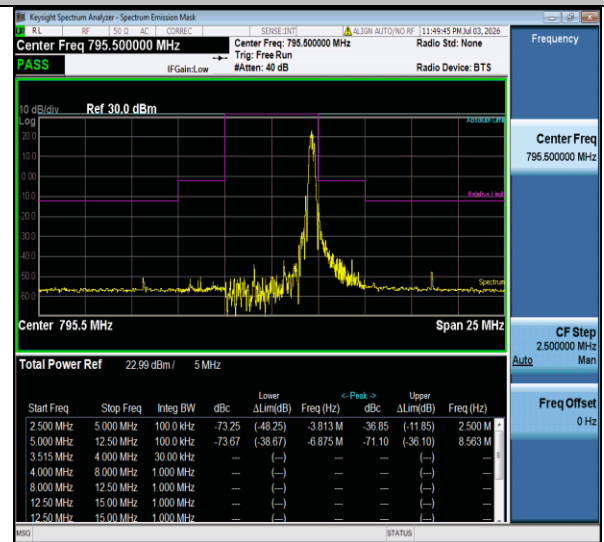
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NTNV-Band14-5MHz-QPSK-23355-1RB#0-5.00-12.50-PASS



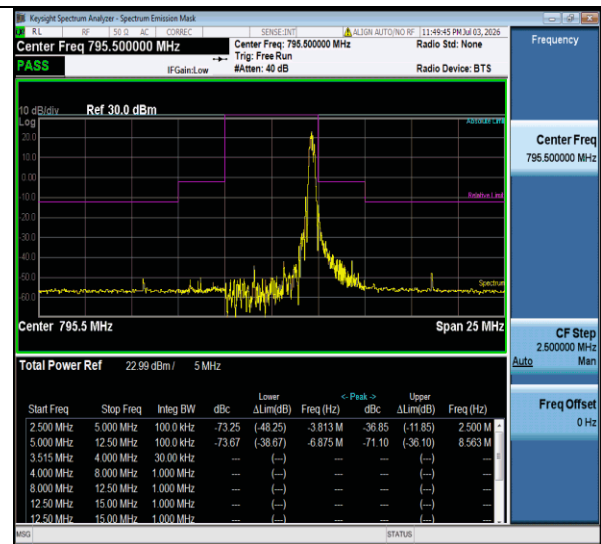
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NTNV-Band14-5MHz-QPSK-23355-1RB#24--5.00--2.50-PASS



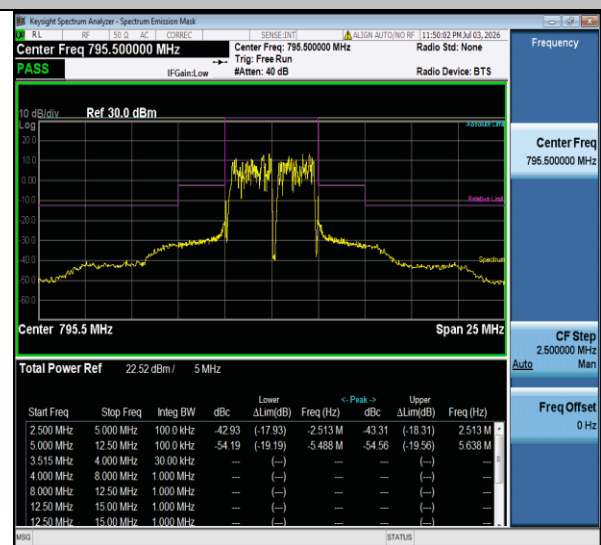
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NTNV-Band14-5MHz-QPSK-23355-25RB#0--12.50--5.00-PASS



NTNV-Band14-5MHz-QPSK-23355-25RB#0--5.00--2.50-PASS



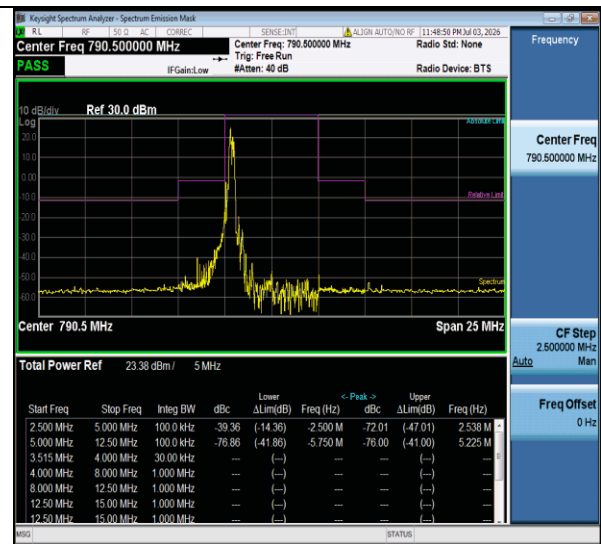
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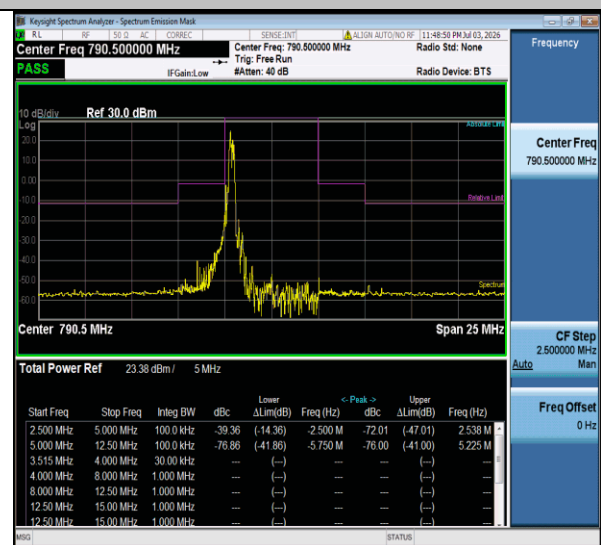
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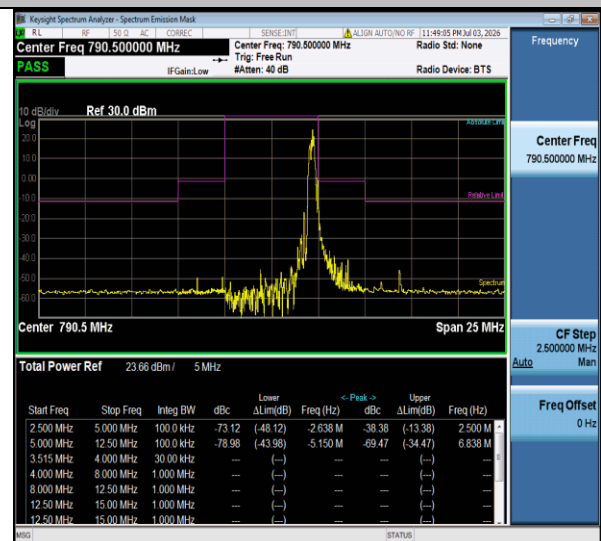
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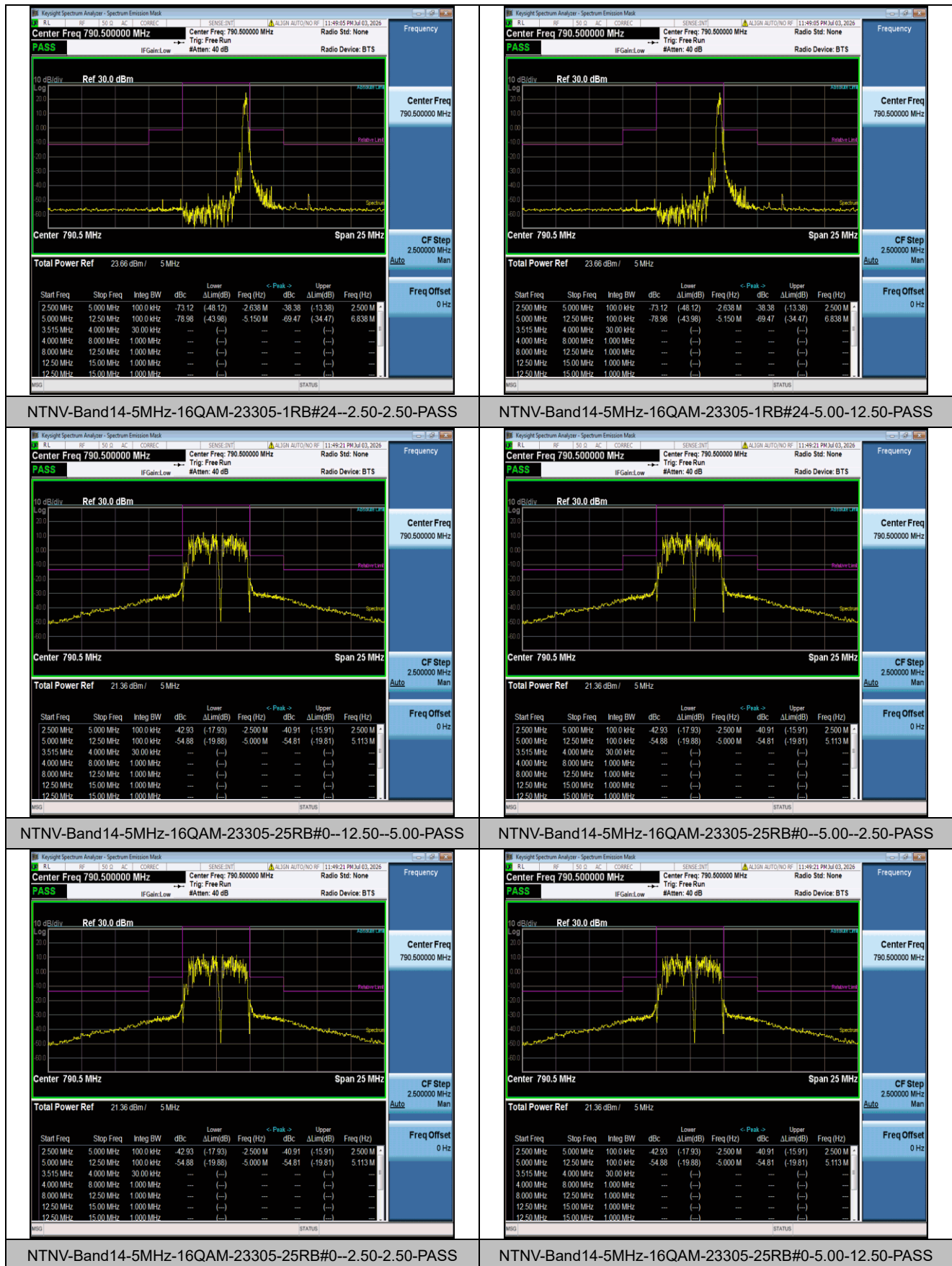
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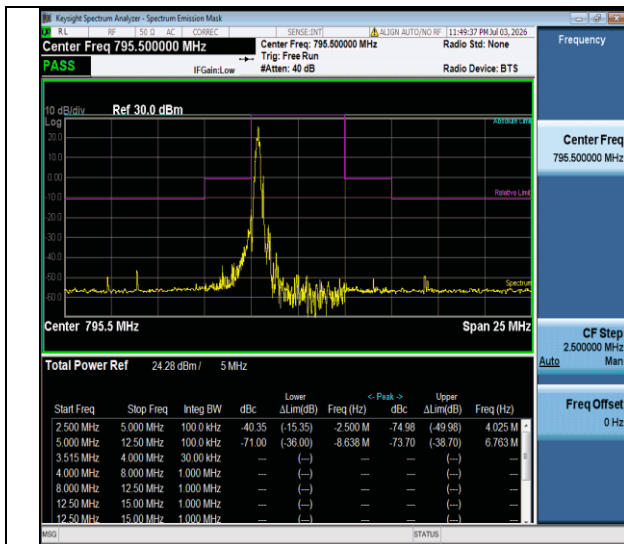


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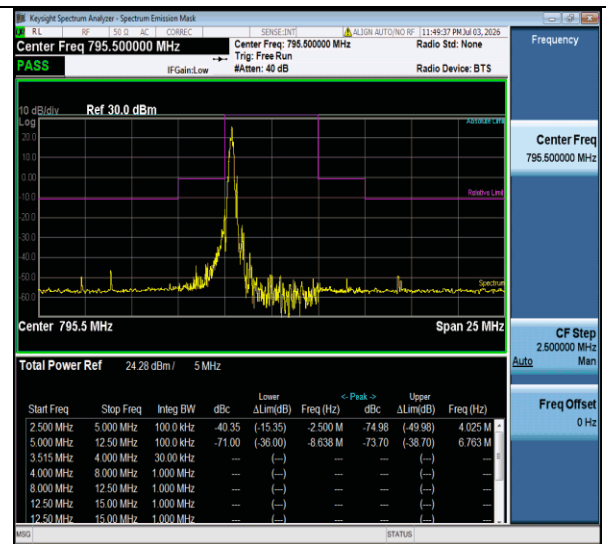


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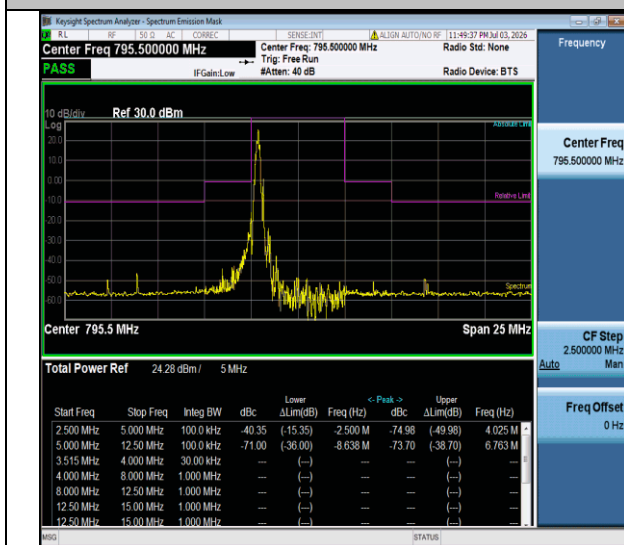




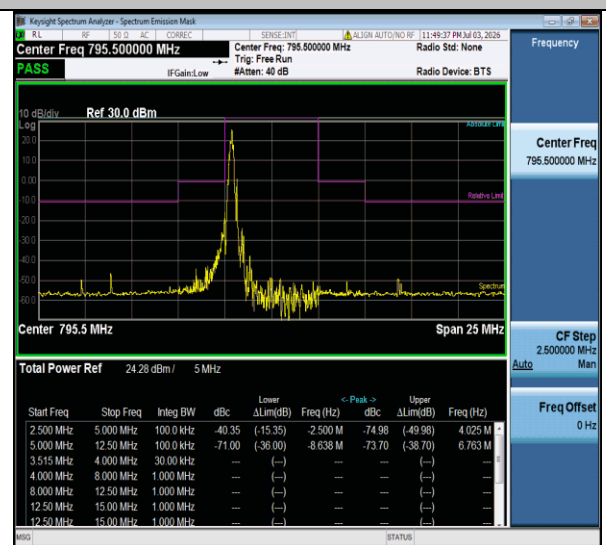
NTNV-Band14-5MHz-16QAM-23355-1RB#0--12.50--5.00-PASS



NTNV-Band14-5MHz-16QAM-23355-1RB#0--5.00--2.50-PASS



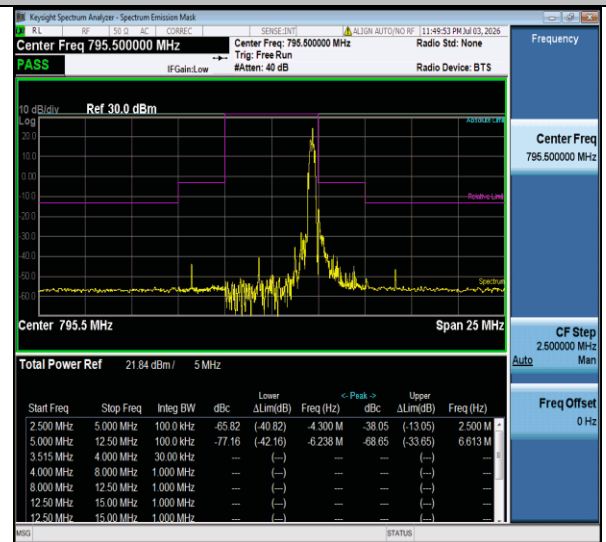
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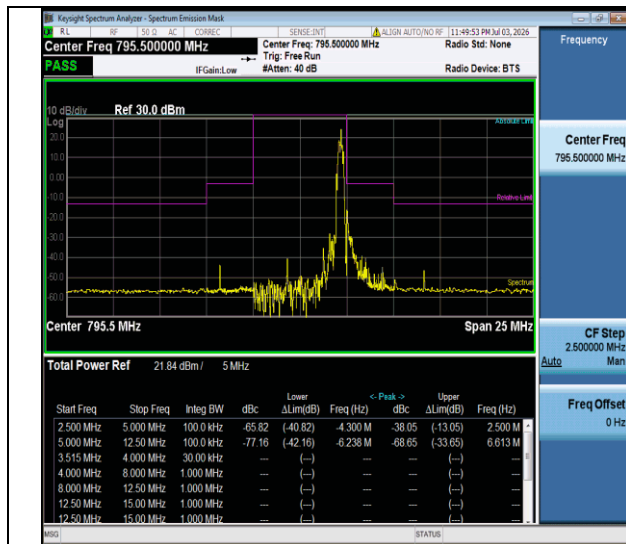
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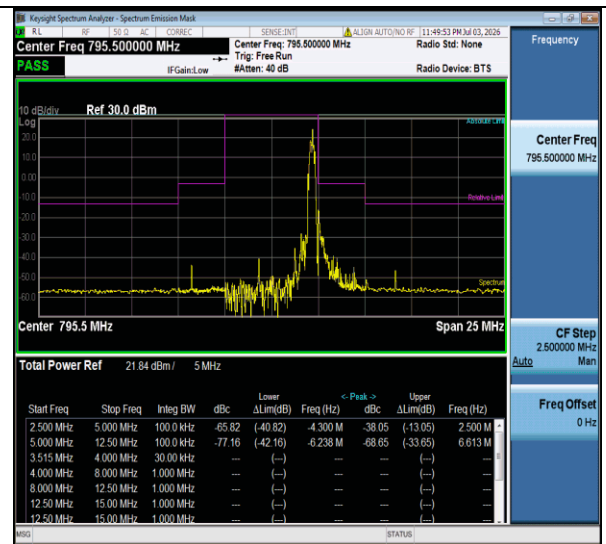
NTNV-Band14-5MHz-16QAM-23355-1RB#24--12.50--5.00-PASS



NTNV-Band14-5MHz-16QAM-23355-1RB#24--5.00--2.50-PASS



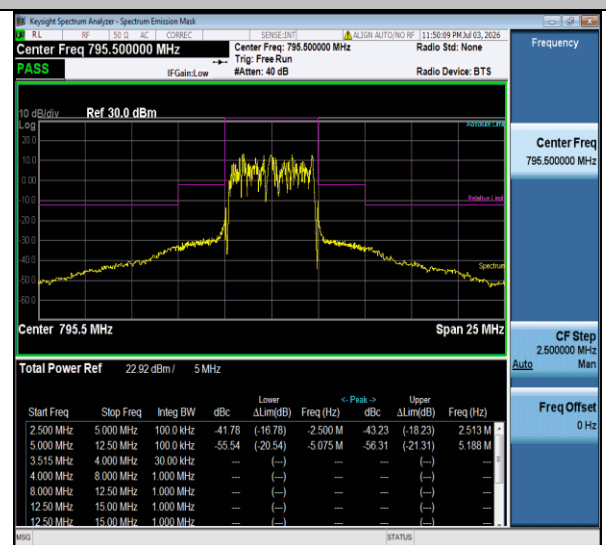
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NTNV-Band14-5MHz-16QAM-23355-1RB#24-5.00-12.50-PASS



NTNV-Band14-5MHz-16QAM-23355-25RB#0--12.50--5.00-PASS



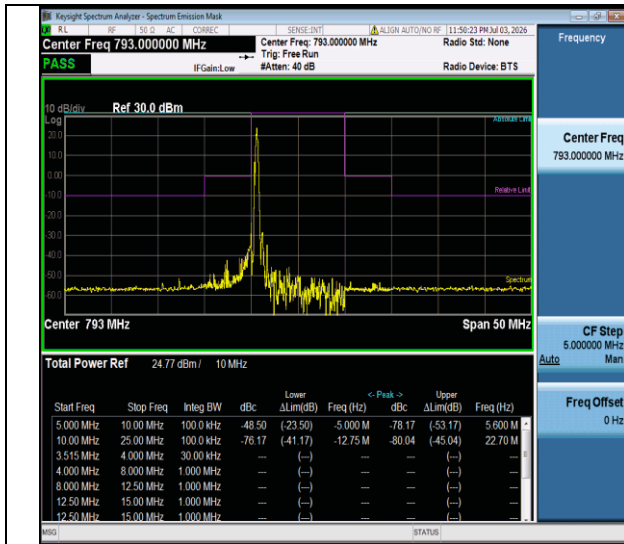
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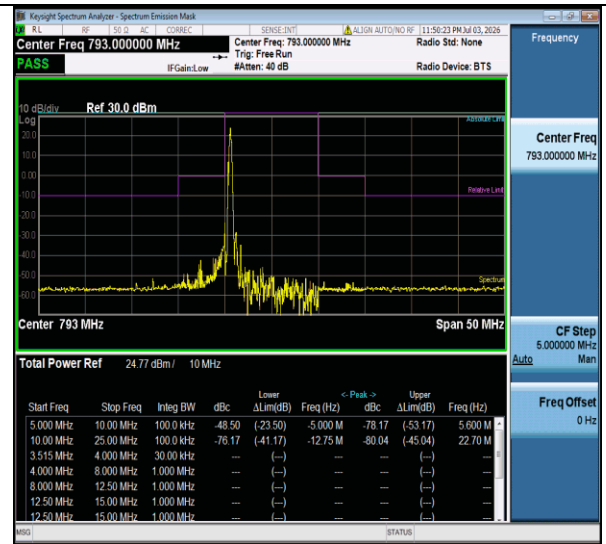
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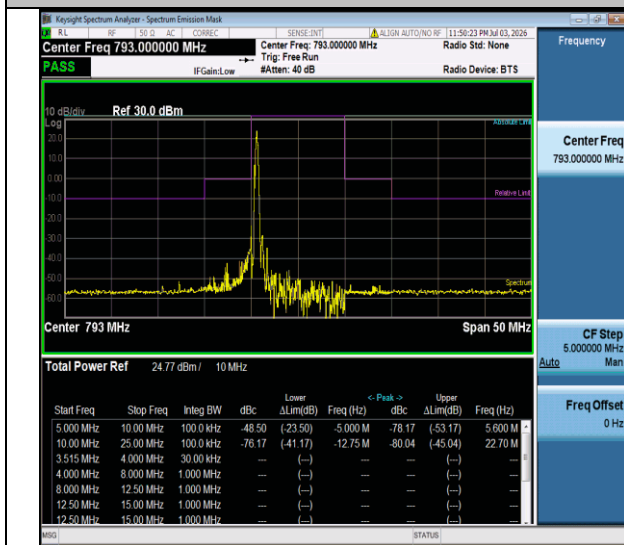
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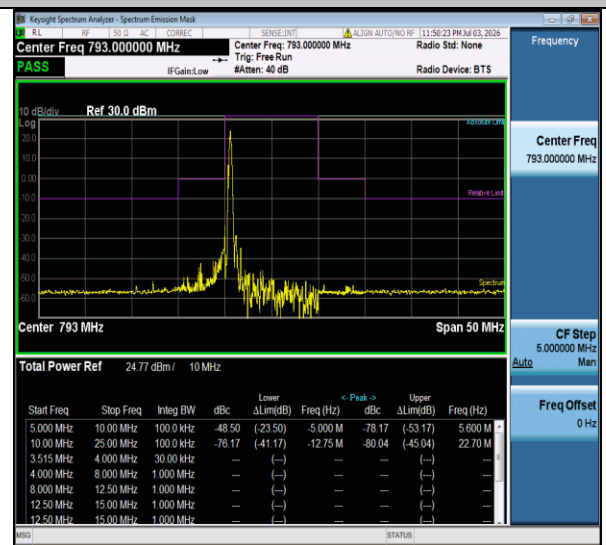
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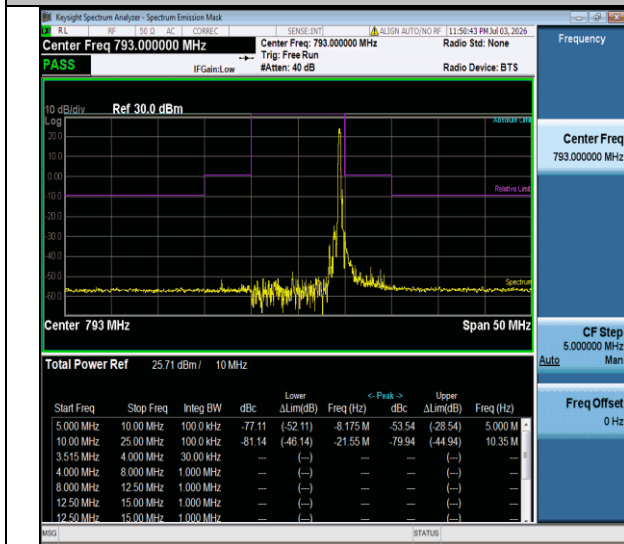
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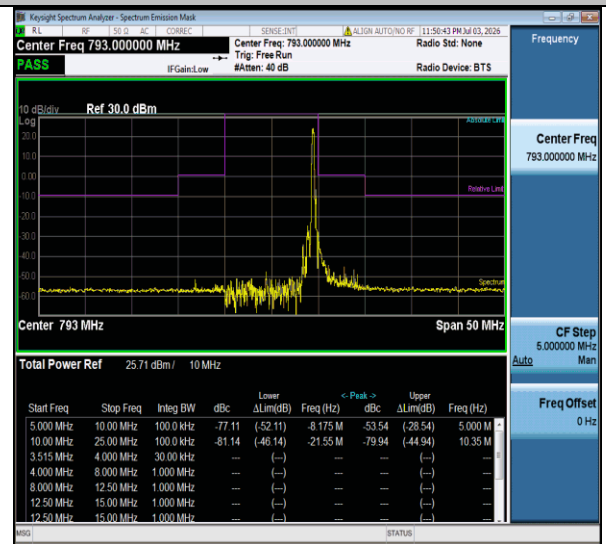
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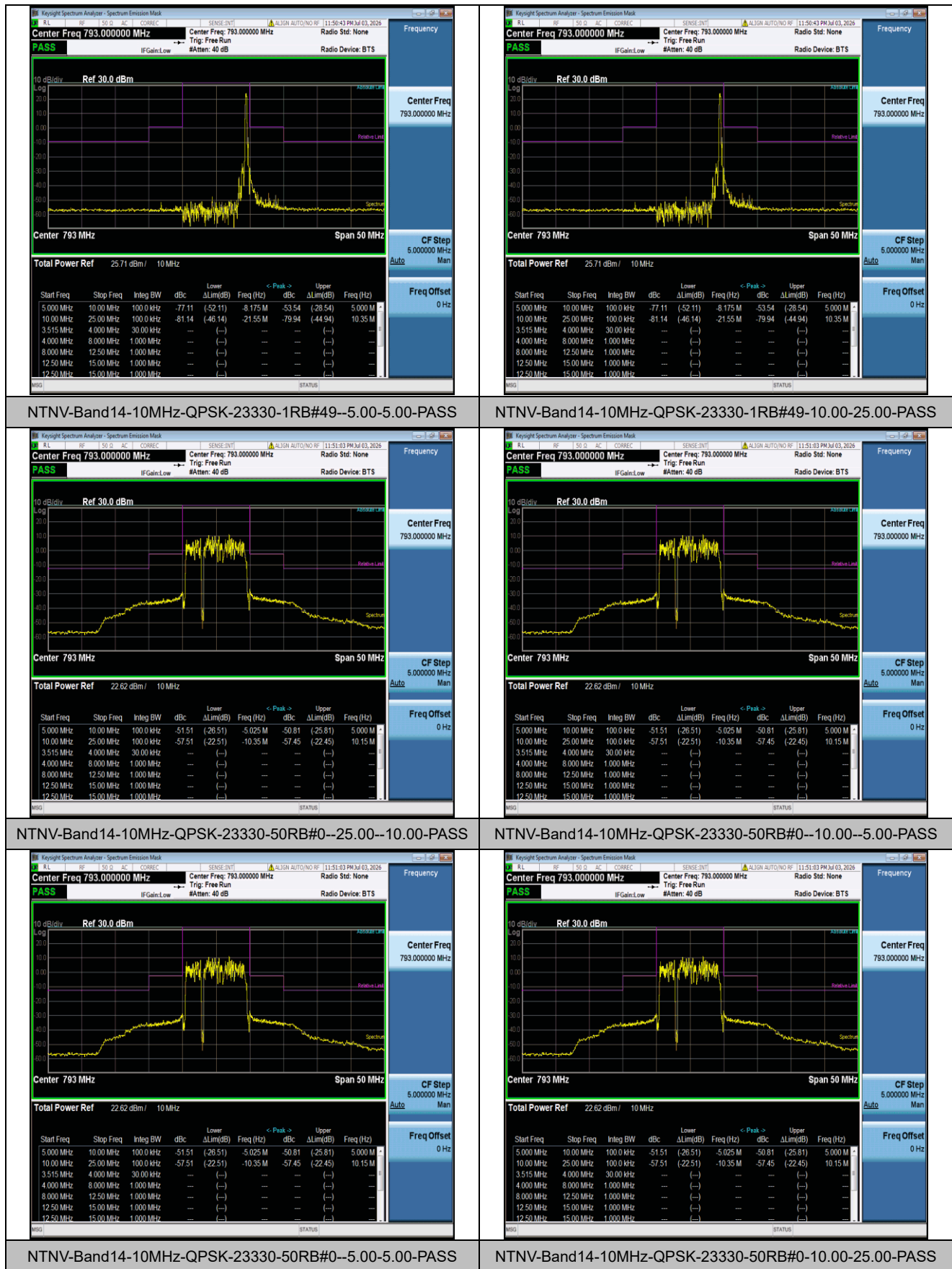
NTNV-Band14-10MHz-QPSK-23330-1RB#0-10.00-25.00-PASS

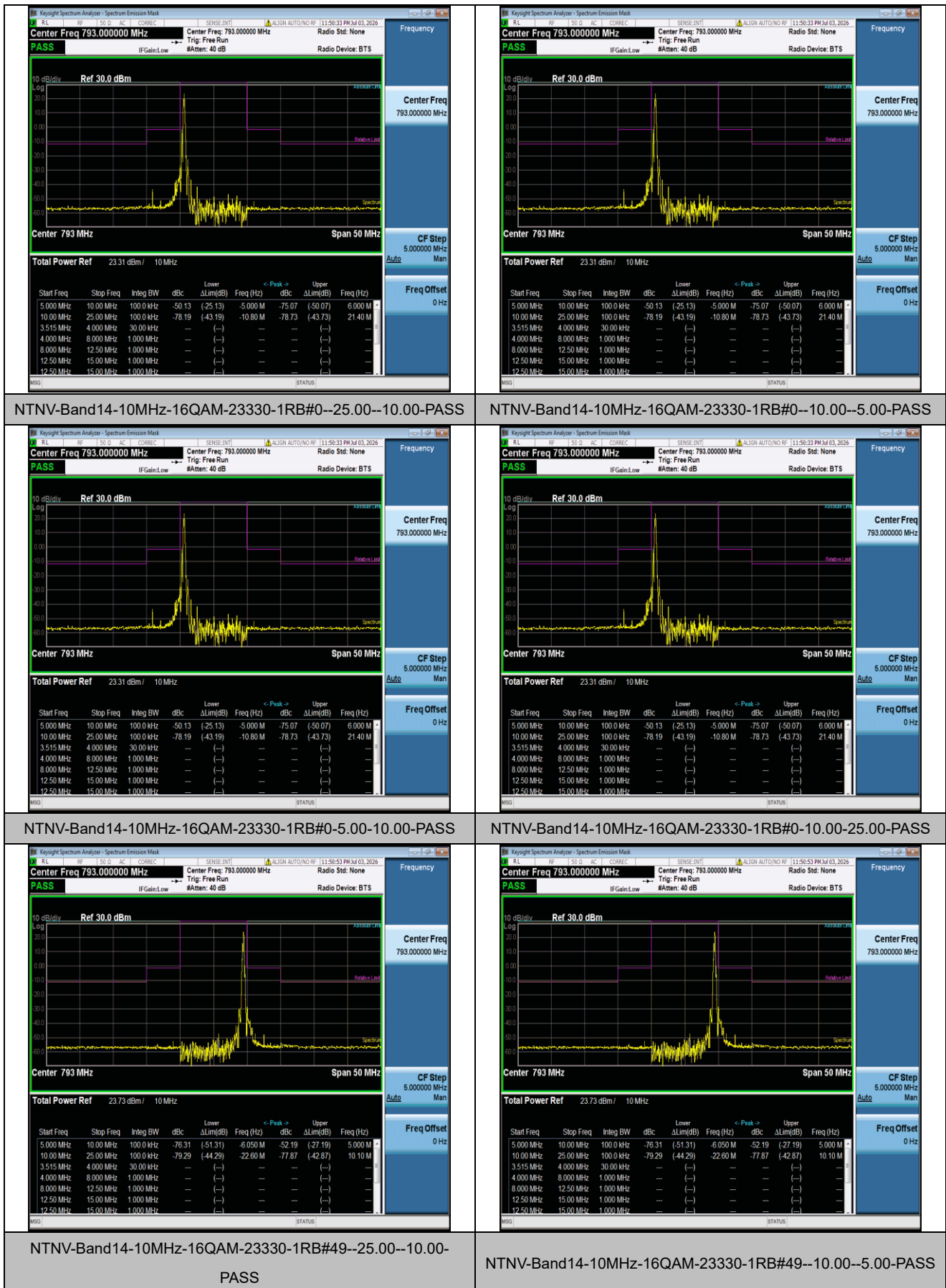


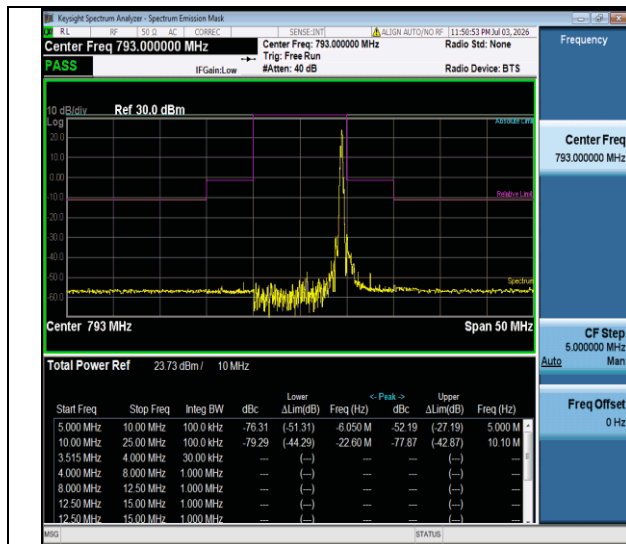
NTNV-Band14-10MHz-QPSK-23330-1RB#49--25.00--10.00-PASS



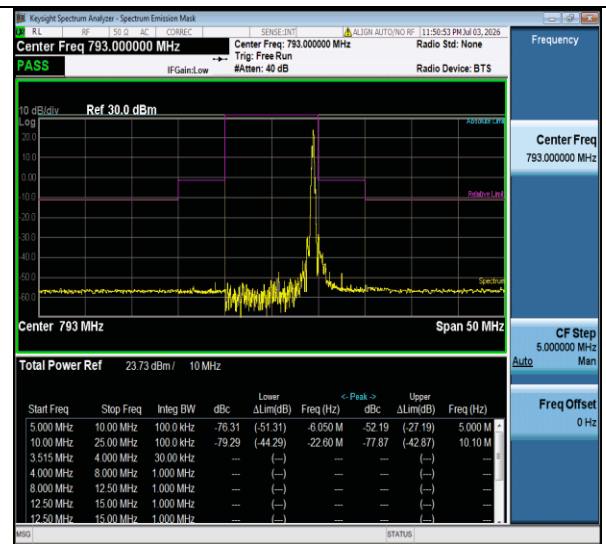
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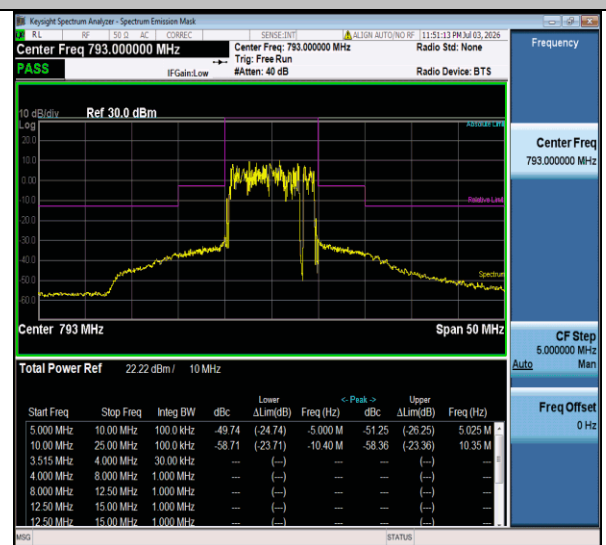
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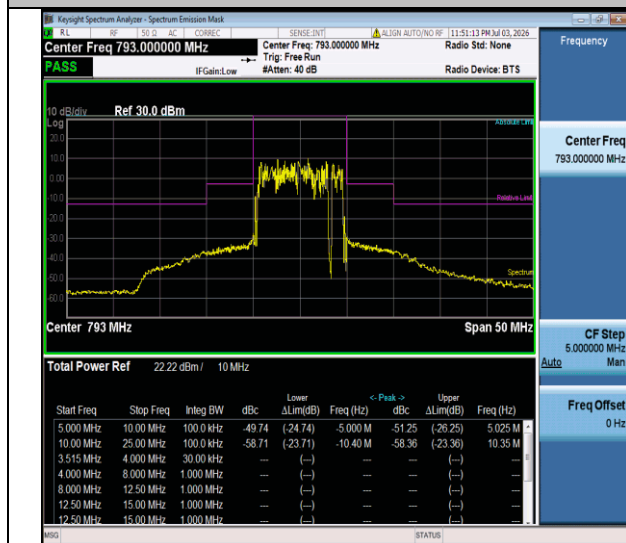
NTNV-Band14-10MHz-16QAM-23330-1RB#49-10.00-25.00-PASS



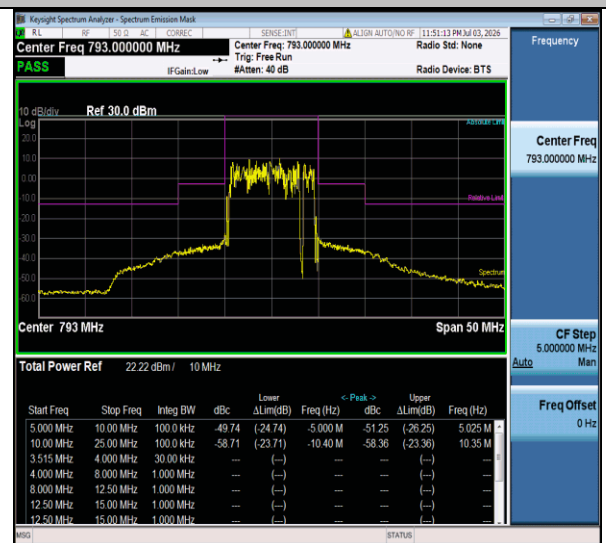
NTNV-Band14-10MHz-16QAM-23330-50RB#0--25.00--10.00-PASS



NTNV-Band14-10MHz-16QAM-23330-50RB#0--10.00--5.00-PASS



NTNV-Band14-10MHz-16QAM-23330-50RB#0-5.00-10.00-PASS



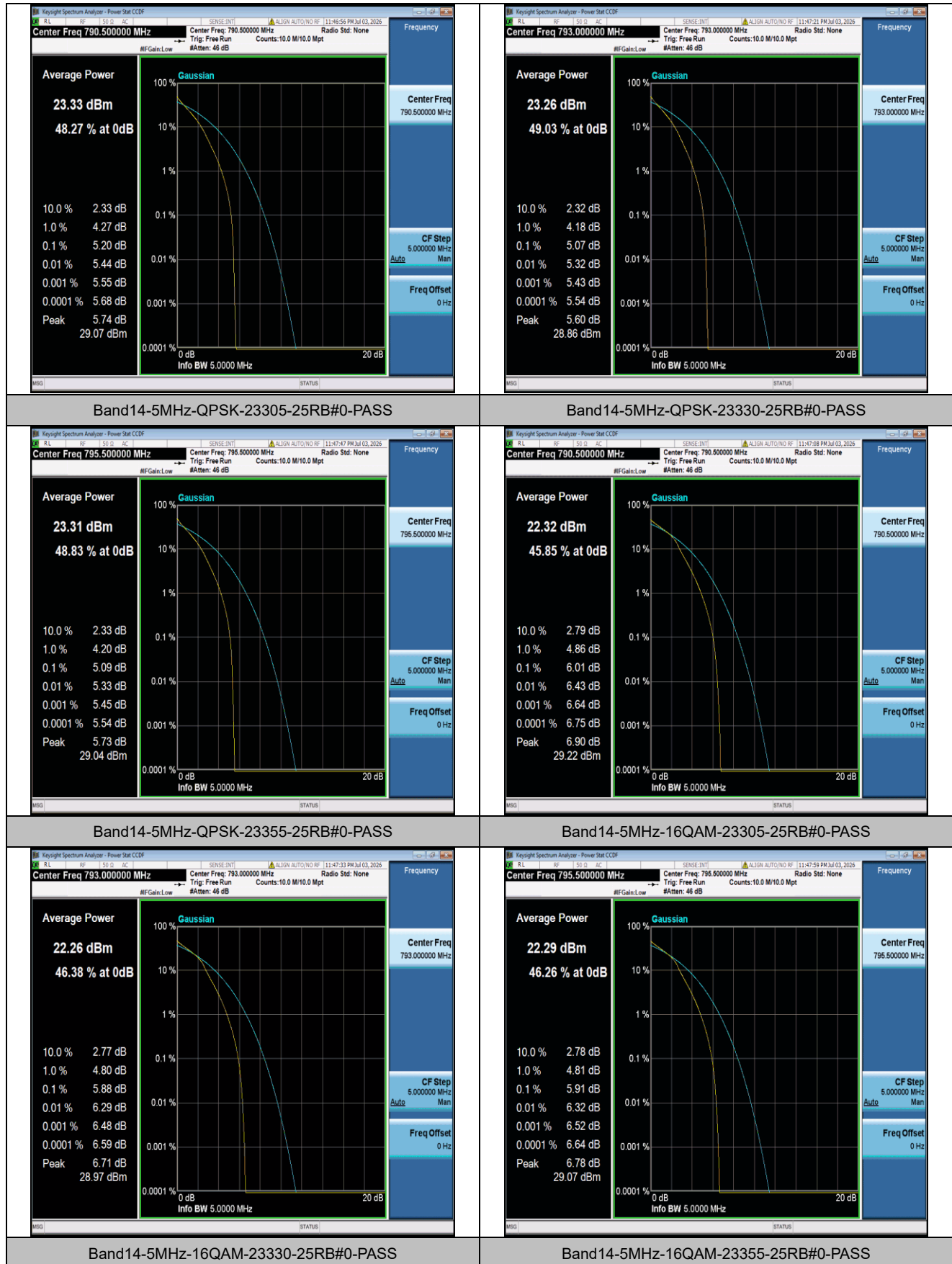
NTNV-Band14-10MHz-16QAM-23330-50RB#0-10.00-25.00-PASS

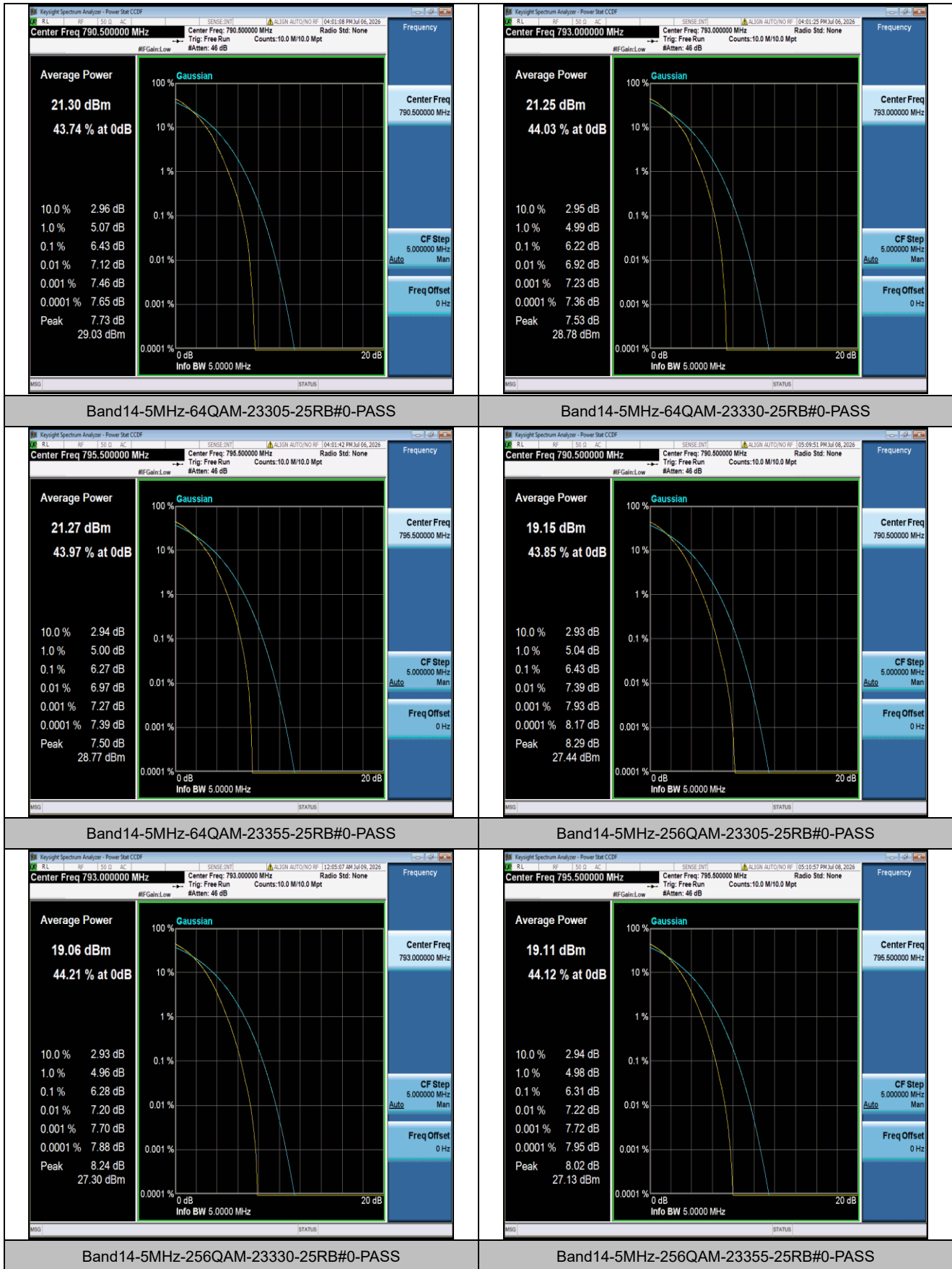
Peak-to-Average Ratio(CCDF)

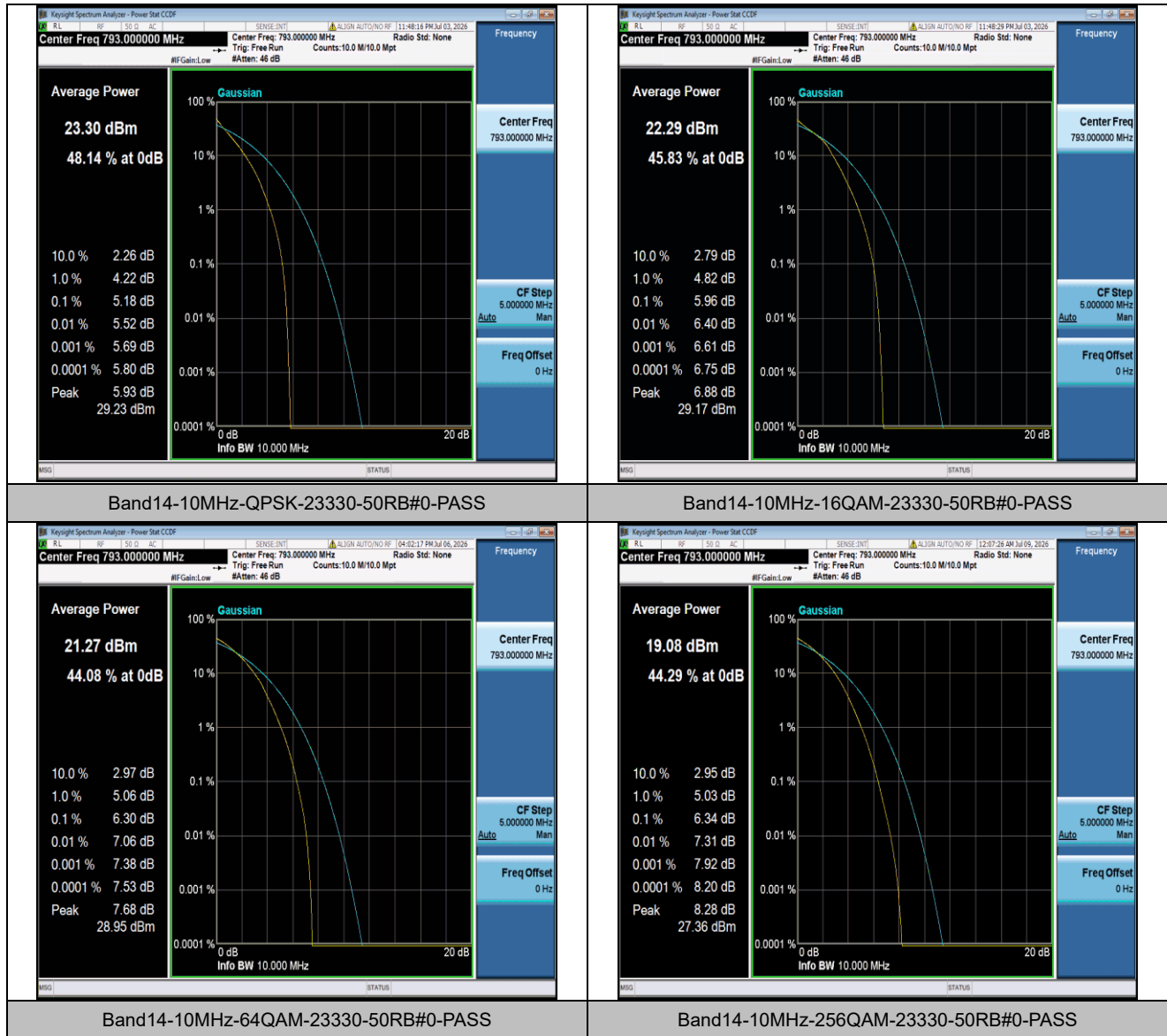
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	5.20	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	5.07	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	5.09	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	6.01	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	5.88	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	5.91	13	PASS
Band14	5MHz	64QAM	23305	25RB#0	6.43	13	PASS
Band14	5MHz	64QAM	23330	25RB#0	6.22	13	PASS
Band14	5MHz	64QAM	23355	25RB#0	6.27	13	PASS
Band14	5MHz	256QAM	23305	25RB#0	6.43	13	PASS
Band14	5MHz	256QAM	23330	25RB#0	6.28	13	PASS
Band14	5MHz	256QAM	23355	25RB#0	6.31	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	5.18	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.96	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.30	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	6.34	13	PASS

Test Graphs





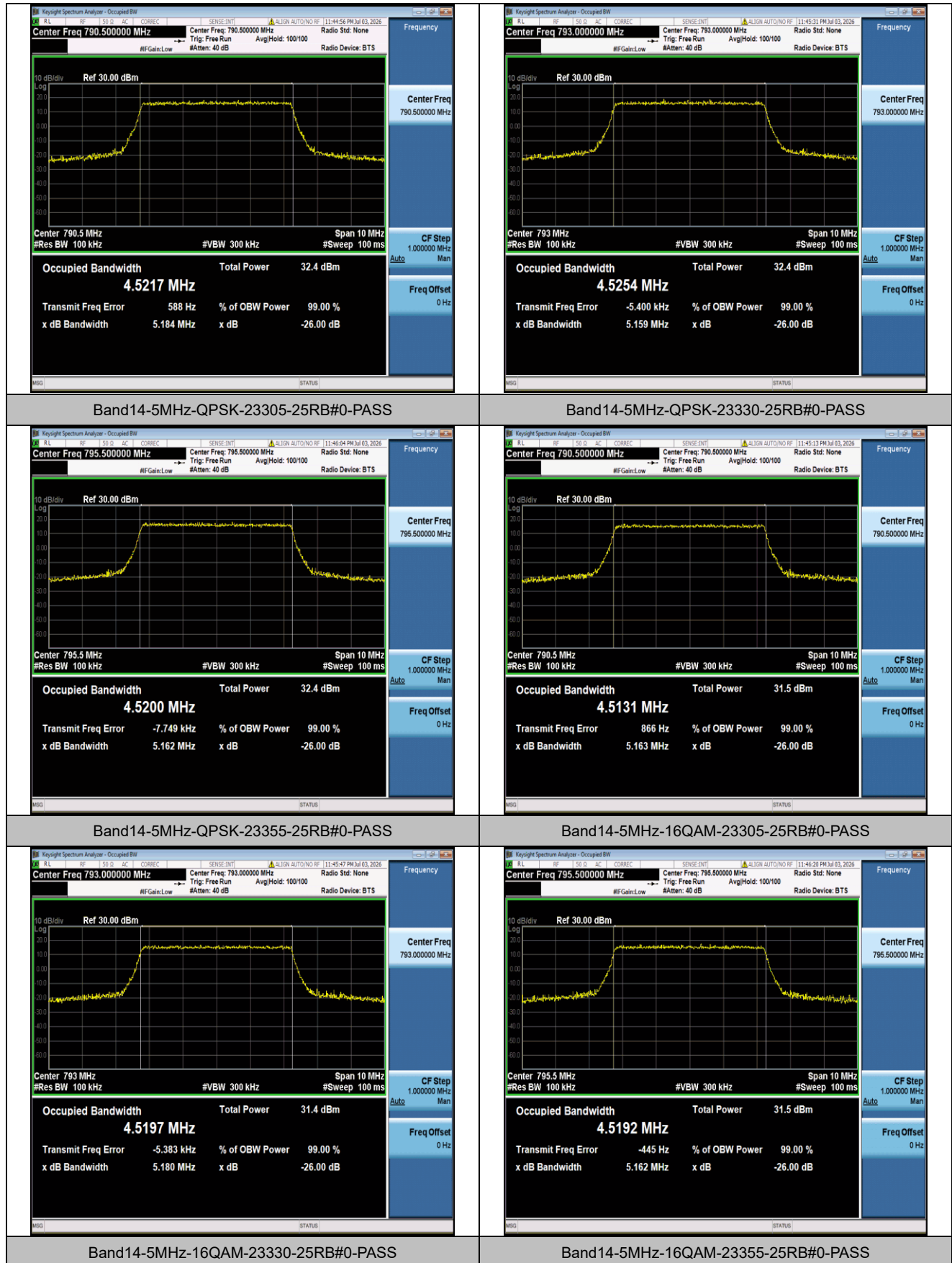


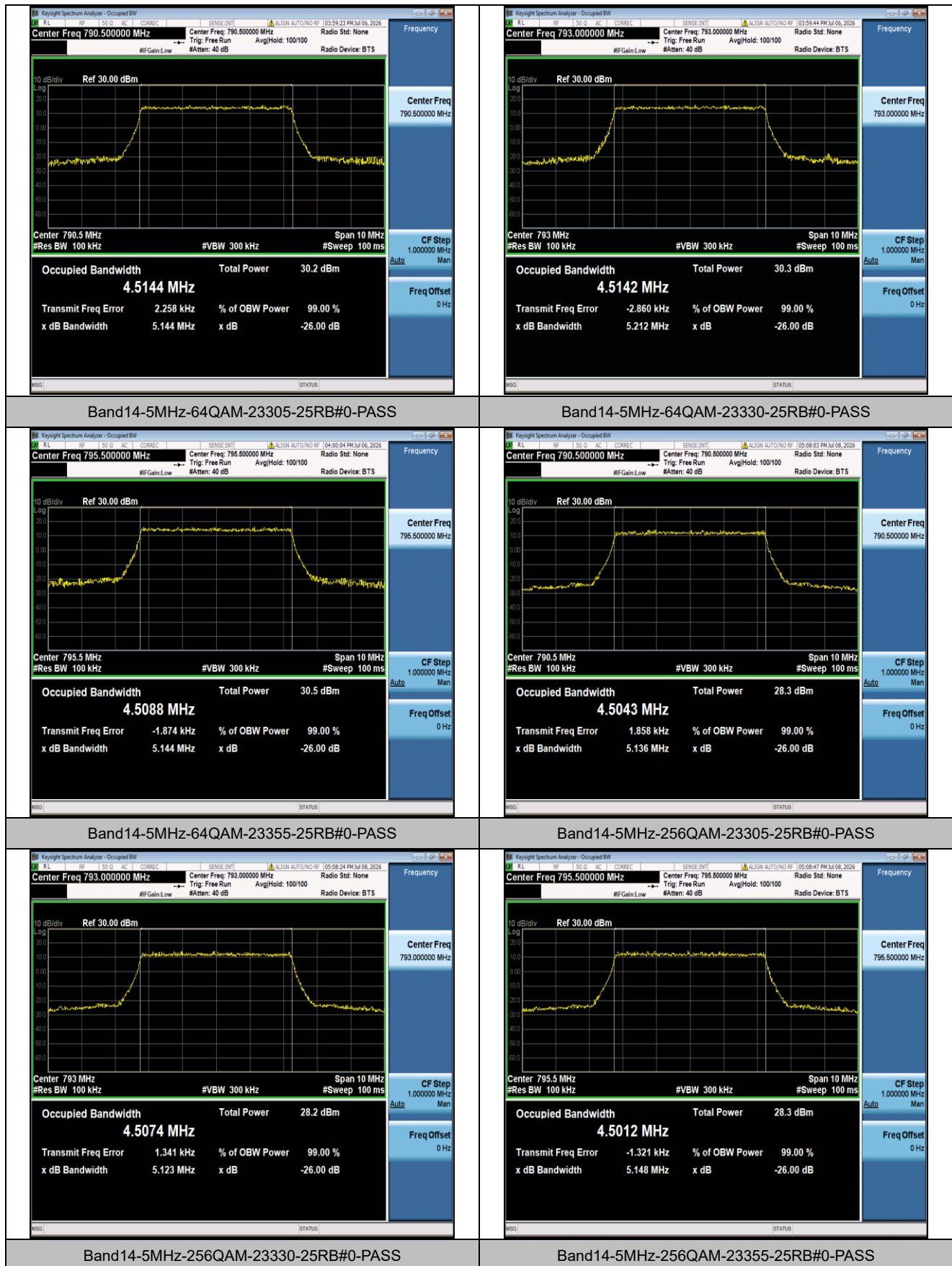
26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.5217	5.184	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.5254	5.159	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.5200	5.162	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.5131	5.163	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.5197	5.180	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.5192	5.162	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.5144	5.144	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.5142	5.212	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.5088	5.144	PASS
Band14	5MHz	256QAM	23305	25RB#0	4.5043	5.136	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.5074	5.123	PASS
Band14	5MHz	256QAM	23355	25RB#0	4.5012	5.148	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.9959	10.03	PASS
Band14	10MHz	16QAM	23330	50RB#0	9.0131	10.08	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.9892	10.04	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.9941	10.01	PASS

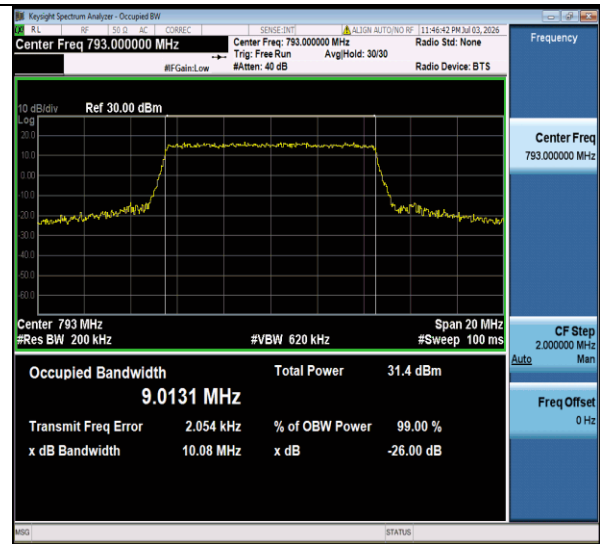
Test Graphs







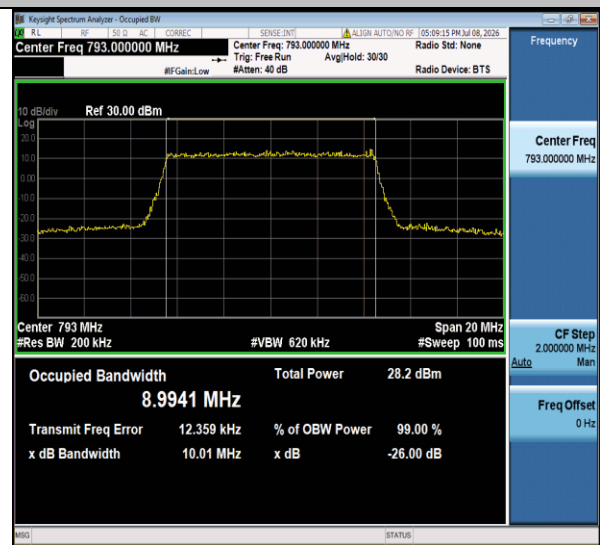
Band14-10MHz-QPSK-23330-50RB#0-PASS



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



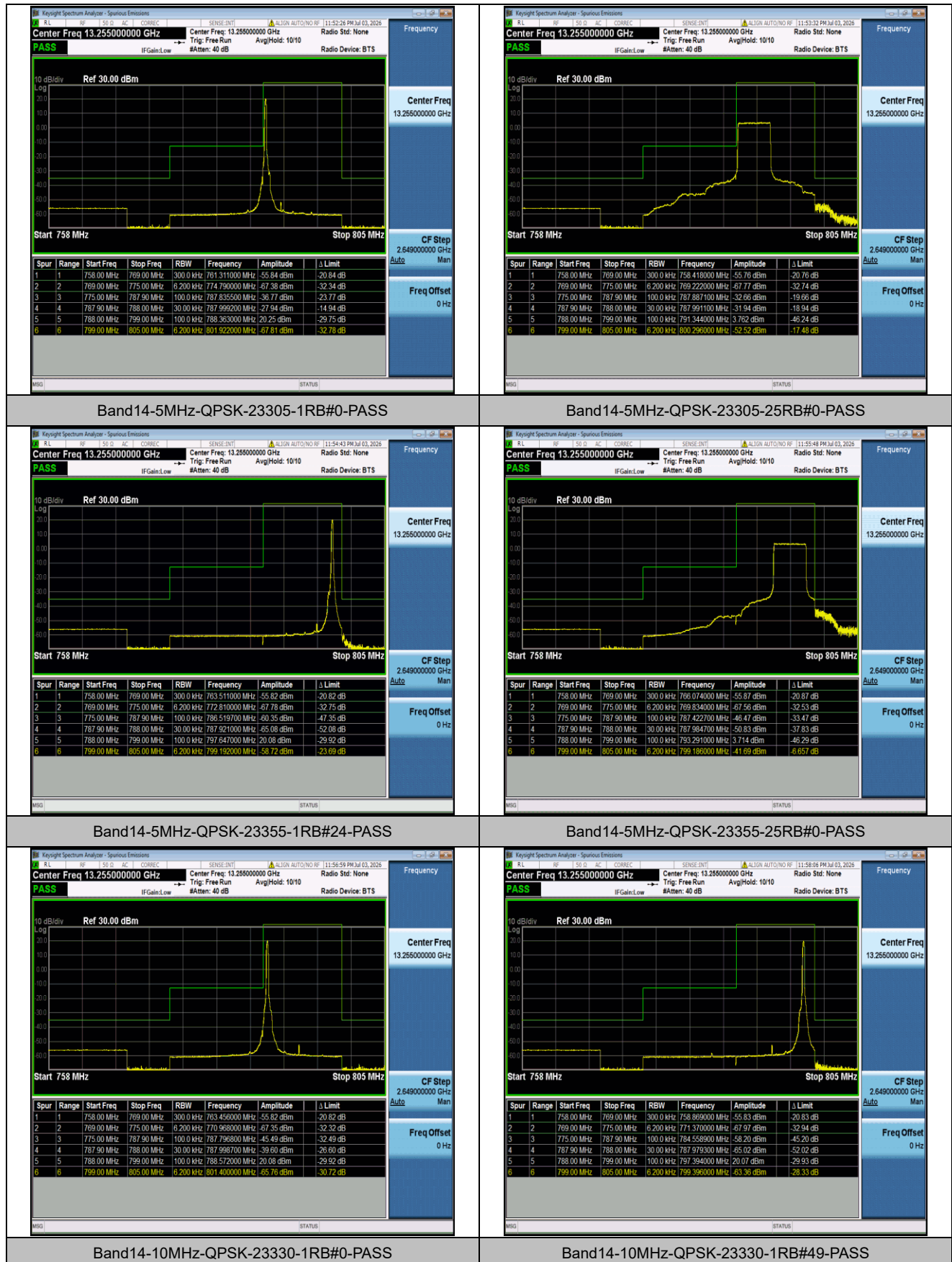
Band14-10MHz-64QAM-23330-50RB#0-PASS



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

Band Edge

Test Graphs

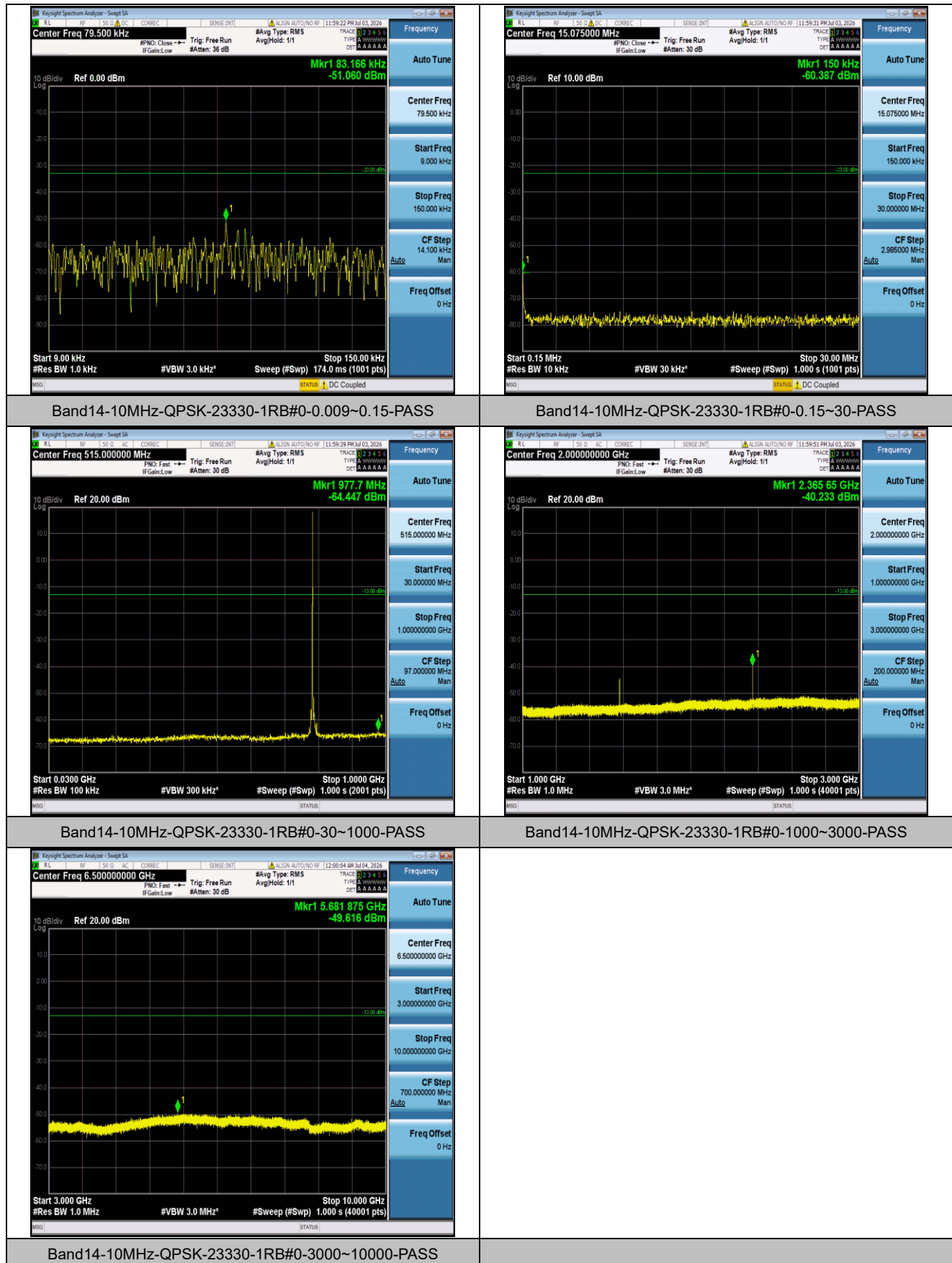




Band14-10MHz-QPSK-23330-50RB#0-PASS

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	-3.60	-0.004540	PASS
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-2.16	-0.002724	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-2.49	-0.003140	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	-1.96	-0.002472	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-2.92	-0.003682	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	1.88	0.002371	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-1.41	-0.001778	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-4.75	-0.005990	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-1.25	-0.001576	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-1.38	-0.001740	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-2.23	-0.002812	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-1.81	-0.002282	PASS

~The End~