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	24.33	24.37	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#0	23.44	23.48	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	23.30	23.34	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#6	23.30	23.34	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	24.44	24.48	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#13	23.25	23.29	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	24.26	24.3	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	24.21	24.25	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#0	23.13	23.17	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	23.08	23.12	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#6	23.15	23.19	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	24.23	24.27	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#13	23.12	23.16	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	24.15	24.19	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	24.16	24.2	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#0	23.21	23.25	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	23.14	23.18	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#6	23.14	23.18	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	24.25	24.29	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#13	23.09	23.13	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	24.07	24.11	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	22.54	22.58	34.77	PASS
Band14	5MHz	64QAM	23305	12RB#0	21.47	21.51	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	21.42	21.46	34.77	PASS
Band14	5MHz	64QAM	23305	12RB#6	21.51	21.55	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	22.63	22.67	34.77	PASS
Band14	5MHz	64QAM	23305	12RB#13	21.43	21.47	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	22.41	22.45	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	22.39	22.43	34.77	PASS
Band14	5MHz	64QAM	23330	12RB#0	21.15	21.19	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	21.25	21.29	34.77	PASS
Band14	5MHz	64QAM	23330	12RB#6	21.30	21.34	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.49	22.53	34.77	PASS
Band14	5MHz	64QAM	23330	12RB#13	21.27	21.31	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.30	22.34	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	22.37	22.41	34.77	PASS
Band14	5MHz	64QAM	23355	12RB#0	21.30	21.34	34.77	PASS

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Band14	5MHz	64QAM	23355	25RB#0	21.28	21.32	34.77	PASS
Band14	5MHz	64QAM	23355	12RB#6	21.31	21.35	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	22.38	22.42	34.77	PASS
Band14	5MHz	64QAM	23355	12RB#13	21.15	21.19	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	22.28	22.32	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	19.40	19.44	34.77	PASS
Band14	5MHz	256QAM	23305	12RB#0	19.55	19.59	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	19.42	19.46	34.77	PASS
Band14	5MHz	256QAM	23305	12RB#6	19.42	19.46	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	19.45	19.49	34.77	PASS
Band14	5MHz	256QAM	23305	12RB#13	19.32	19.36	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	19.44	19.48	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	19.55	19.59	34.77	PASS
Band14	5MHz	256QAM	23330	12RB#0	19.24	19.28	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	19.15	19.19	34.77	PASS
Band14	5MHz	256QAM	23330	12RB#6	19.20	19.24	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	19.31	19.35	34.77	PASS
Band14	5MHz	256QAM	23330	12RB#13	19.10	19.14	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	19.54	19.58	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	19.52	19.56	34.77	PASS
Band14	5MHz	256QAM	23355	12RB#0	19.37	19.41	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	19.37	19.41	34.77	PASS
Band14	5MHz	256QAM	23355	12RB#6	19.28	19.32	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	19.35	19.39	34.77	PASS
Band14	5MHz	256QAM	23355	12RB#13	19.28	19.32	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	19.19	19.23	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.64	23.68	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#0	22.34	22.38	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.29	22.33	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#6	22.37	22.41	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.50	23.54	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#13	22.33	22.37	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.53	23.57	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.53	23.57	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#0	22.19	22.23	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	22.09	22.13	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#6	22.21	22.25	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.60	23.64	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#13	22.03	22.07	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.51	23.55	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.34	23.38	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#0	22.16	22.2	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	22.19	22.23	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#6	22.24	22.28	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.53	23.57	34.77	PASS

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Band14	5MHz	16QAM	23355	12RB#13	22.15	22.19	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	23.48	23.52	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	24.11	24.15	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#0	23.11	23.15	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	23.13	23.17	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#12	23.12	23.16	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	24.15	24.19	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#25	23.18	23.22	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	24.29	24.33	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	22.60	22.64	34.77	PASS
Band14	10MHz	64QAM	23330	25RB#0	21.19	21.23	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	21.23	21.27	34.77	PASS
Band14	10MHz	64QAM	23330	25RB#12	21.18	21.22	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	22.40	22.44	34.77	PASS
Band14	10MHz	64QAM	23330	25RB#25	21.21	21.25	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	22.27	22.31	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	19.53	19.57	34.77	PASS
Band14	10MHz	256QAM	23330	25RB#0	19.18	19.22	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	19.25	19.29	34.77	PASS
Band14	10MHz	256QAM	23330	25RB#12	19.28	19.32	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	19.44	19.48	34.77	PASS
Band14	10MHz	256QAM	23330	25RB#25	19.20	19.24	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	19.54	19.58	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.39	23.43	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#0	22.16	22.2	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	22.09	22.13	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#12	22.13	22.17	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.41	23.45	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#25	22.08	22.12	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	23.44	23.48	34.77	PASS

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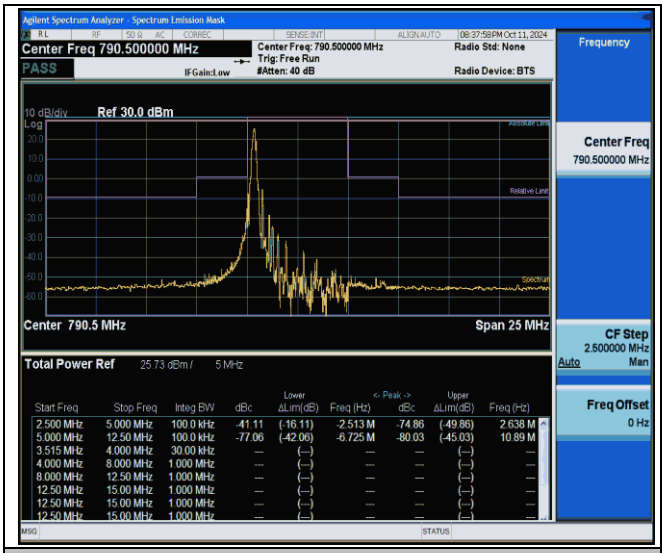
Spectrum_emission_mask

Test Graphs



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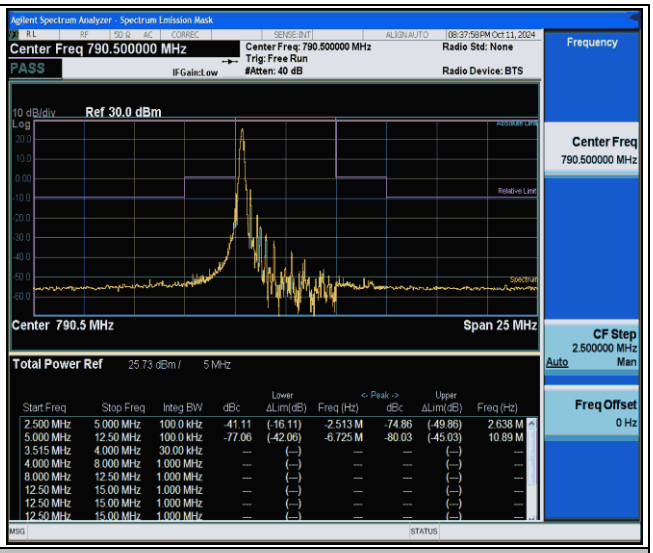

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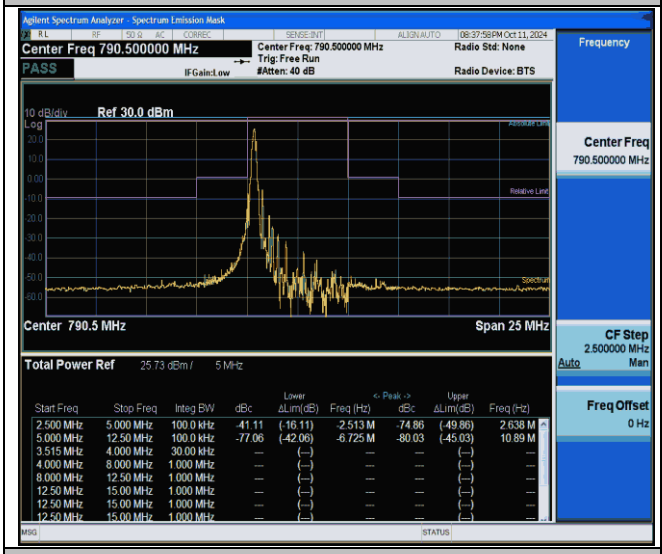

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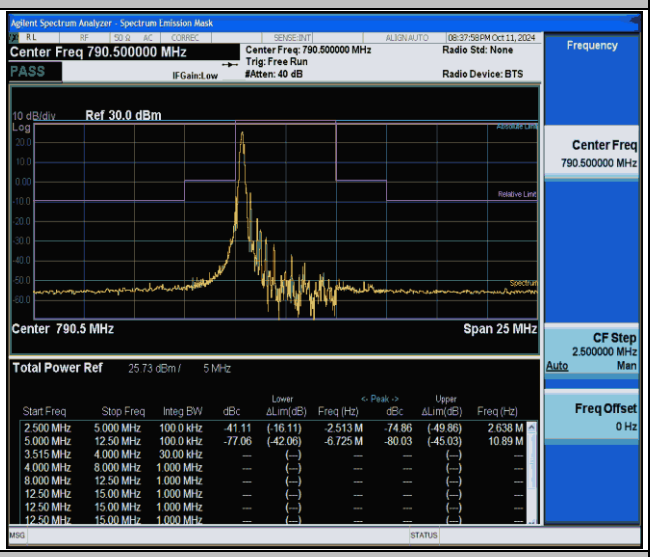

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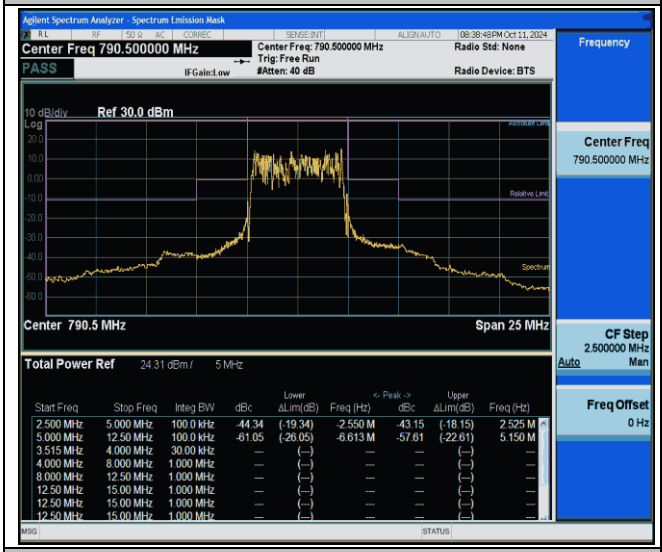

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NTNV-Band14-5MHz-QPSK-23305-25RB#0--5.00--2.50-PASS

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

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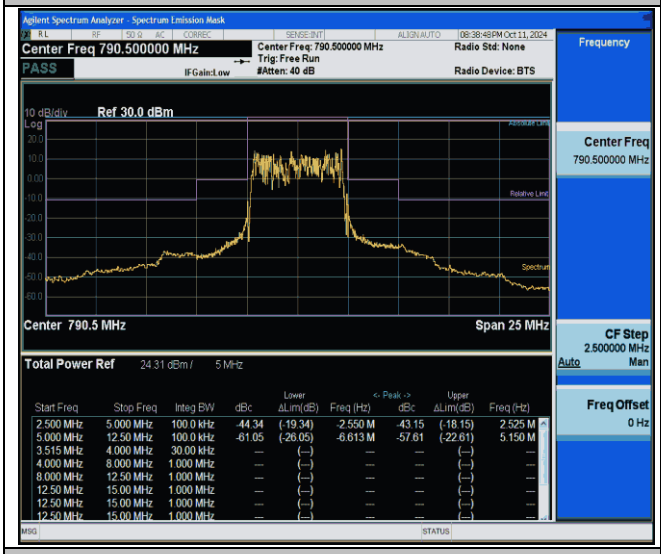

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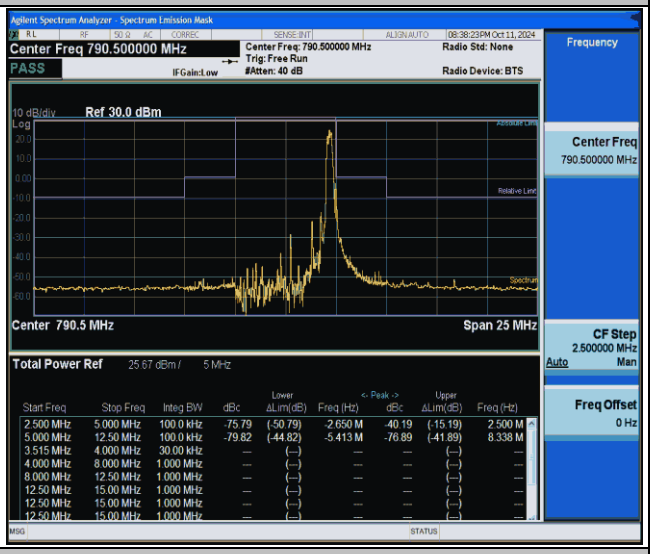

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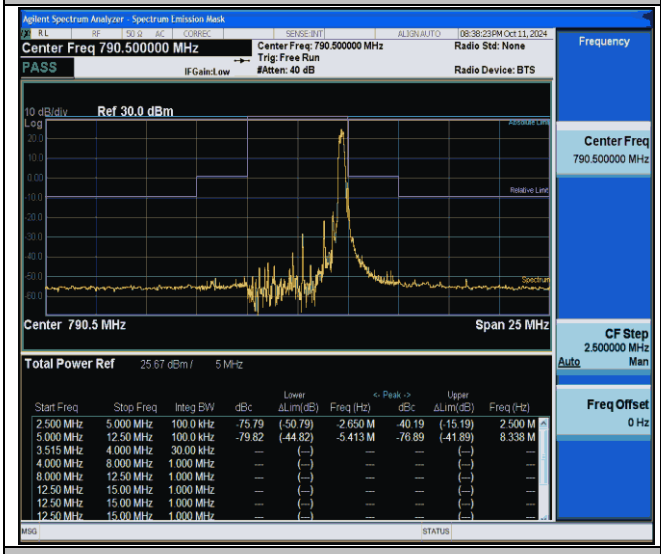

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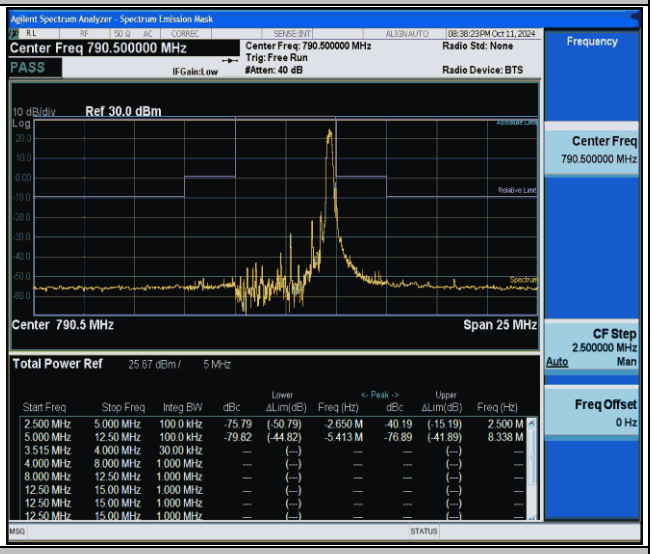

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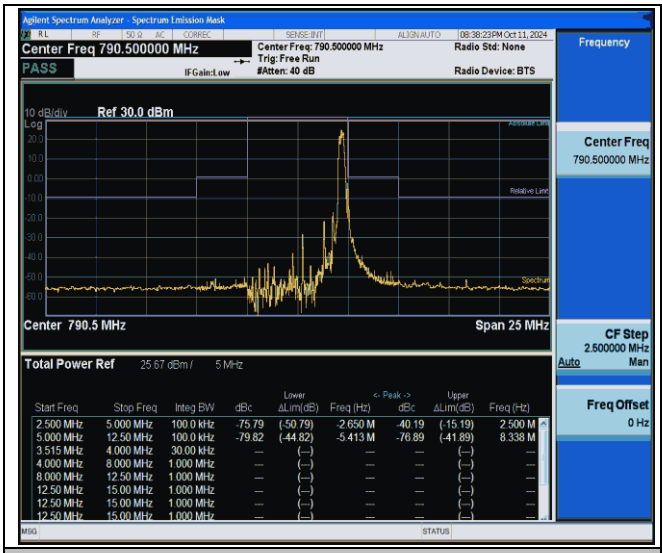

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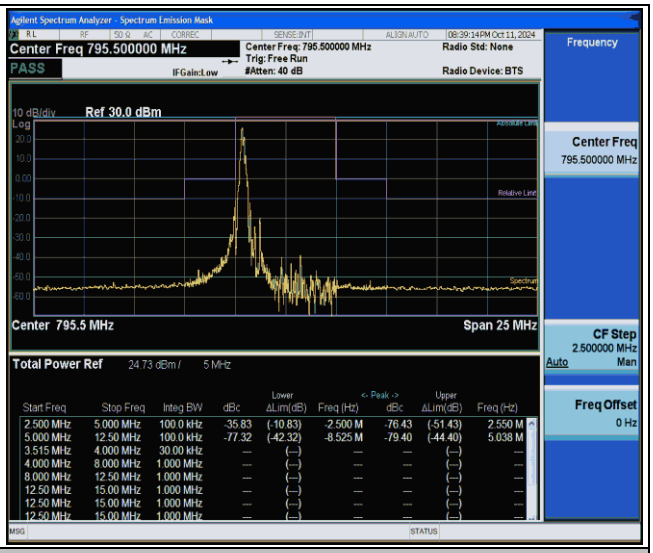

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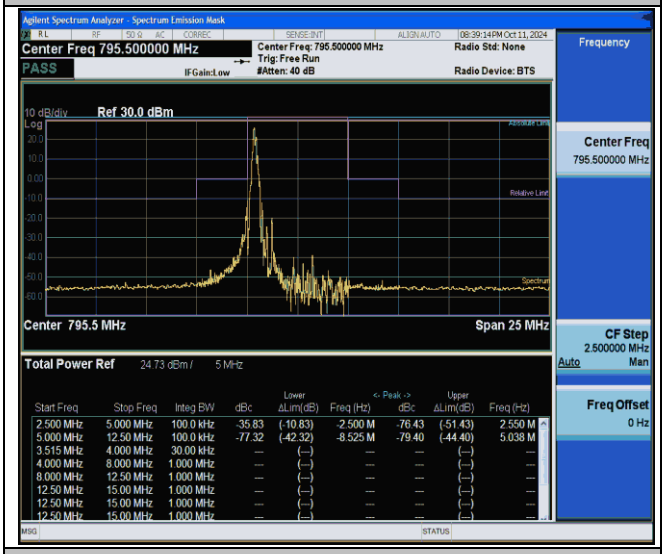

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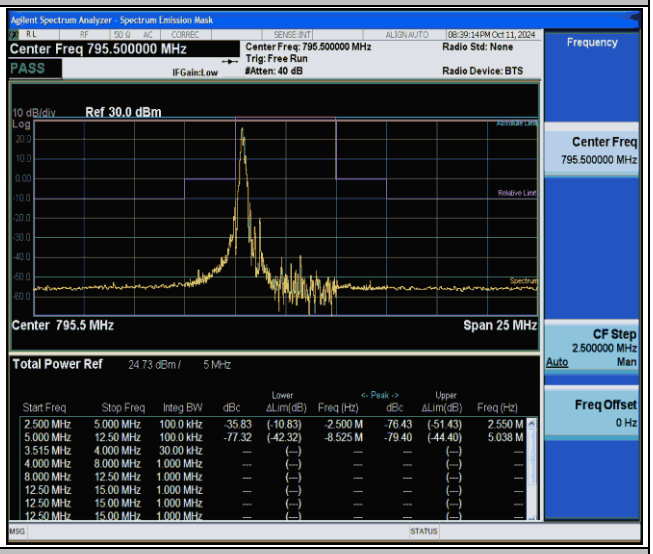

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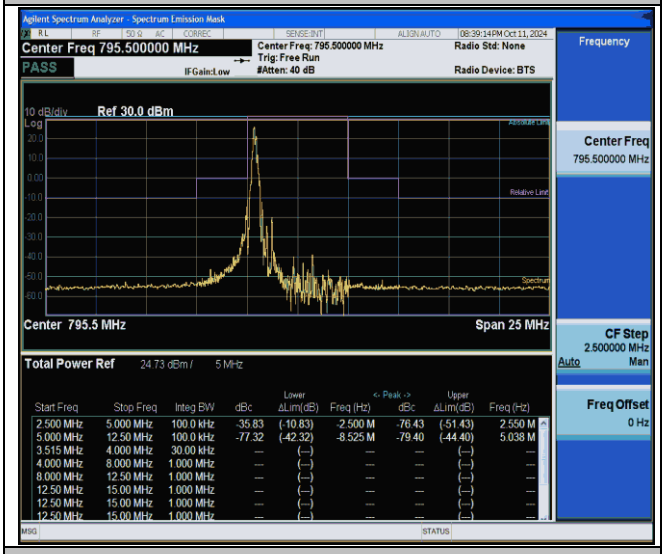

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NTNV-Band14-5MHz-QPSK-23355-25RB#0--12.50--5.00-PASS

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

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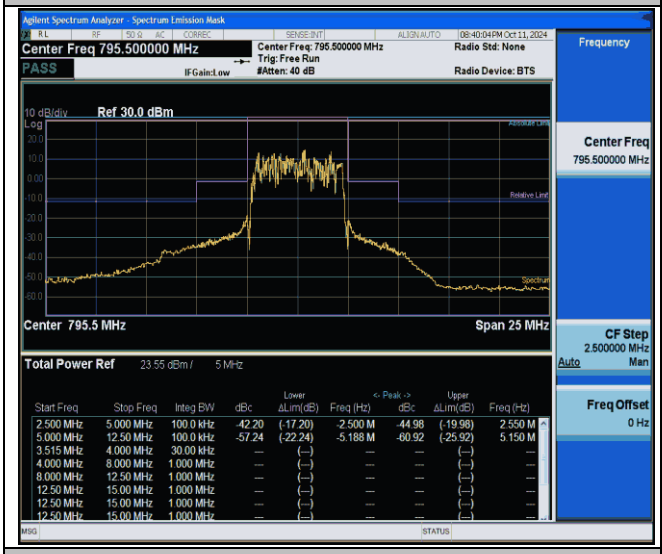

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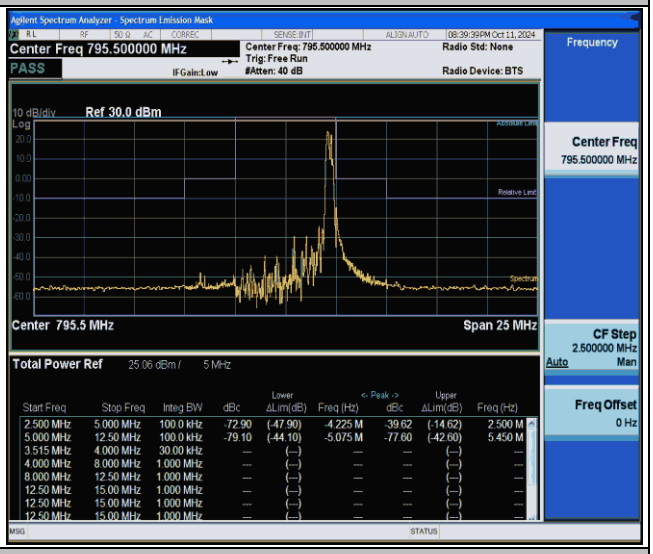

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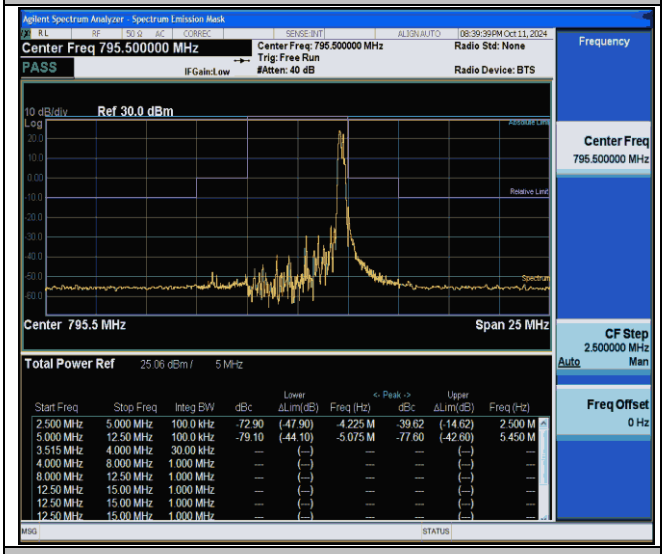

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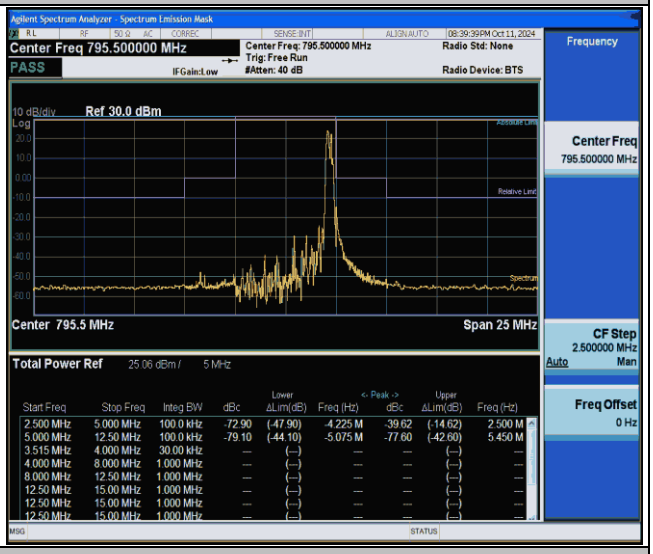

NTNV-Band14-5MHz-QPSK-23355-1RB#24--2.50-2.50-PASS

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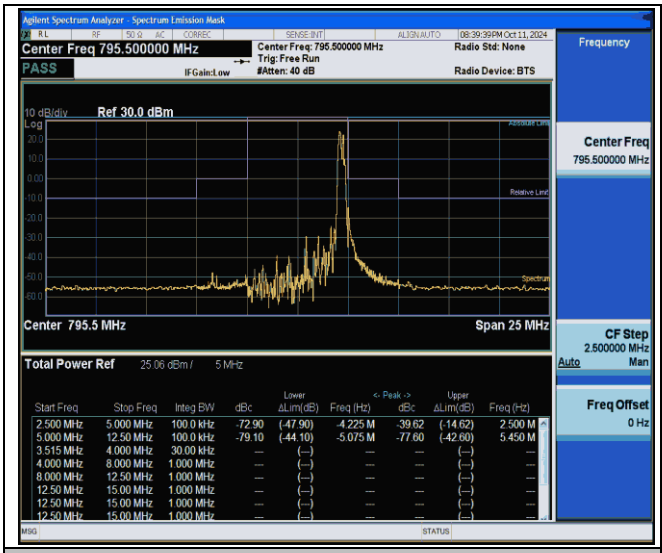

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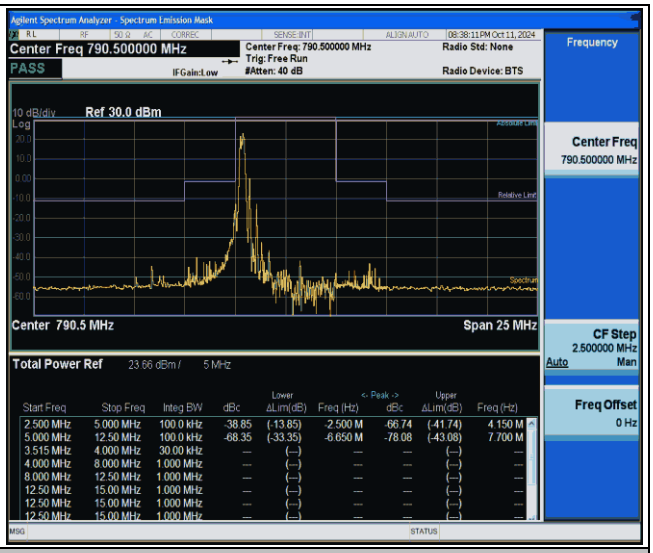

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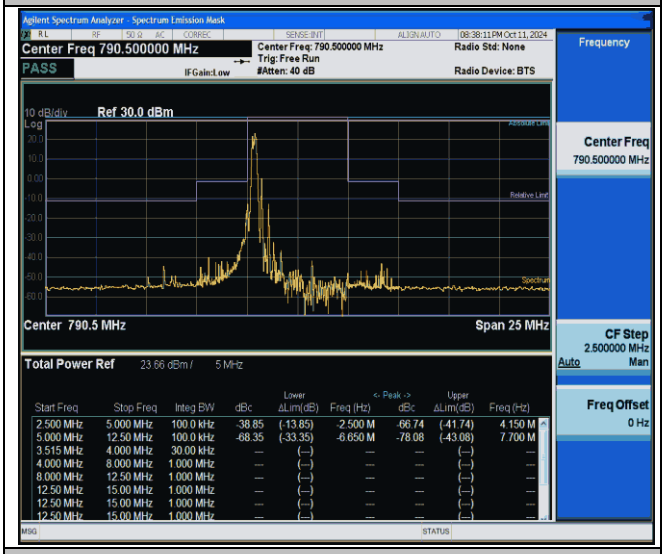

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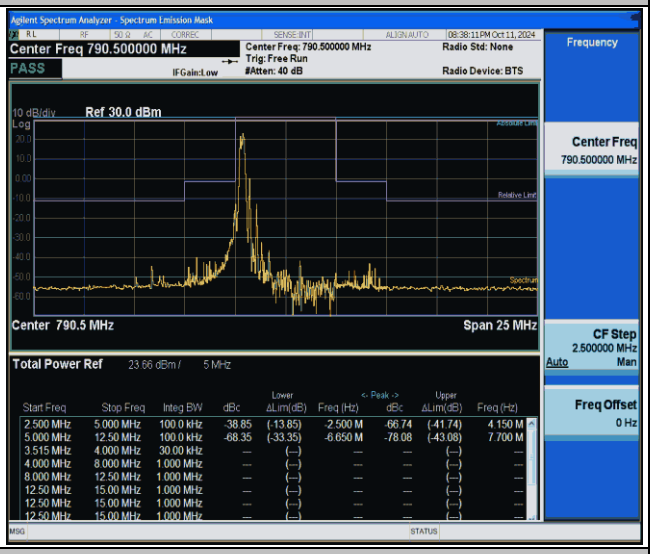

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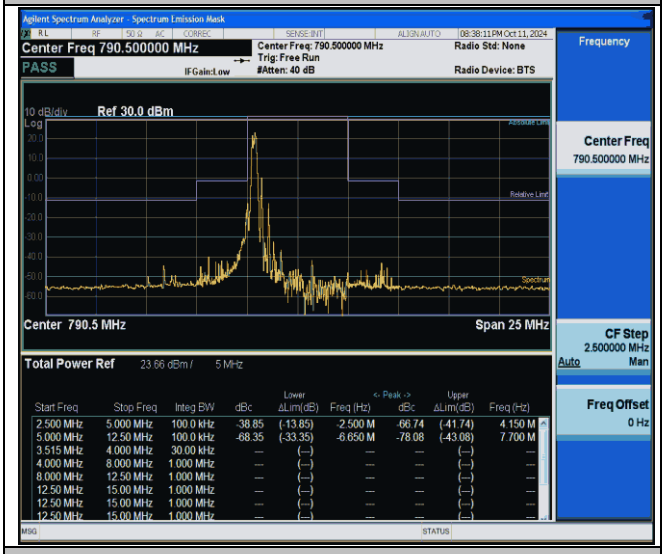

NTNV-Band14-5MHz-16QAM-23305-1RB#0-5.00-12.50-PASS

NTNV-Band14-5MHz-16QAM-23305-25RB#0--12.50--5.00-PASS

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NTNV-Band14-5MHz-16QAM-23305-25RB#0--5.00--2.50-PASS

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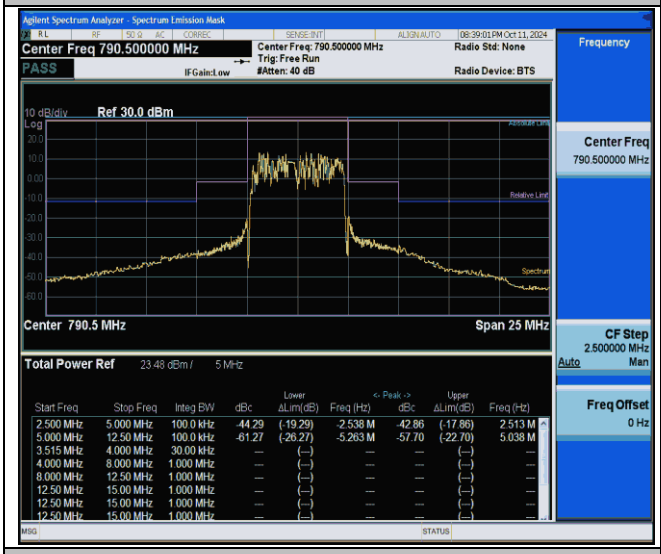

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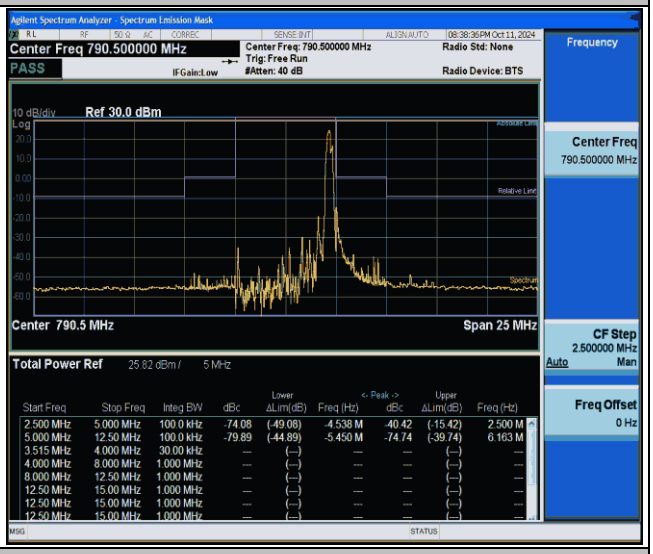

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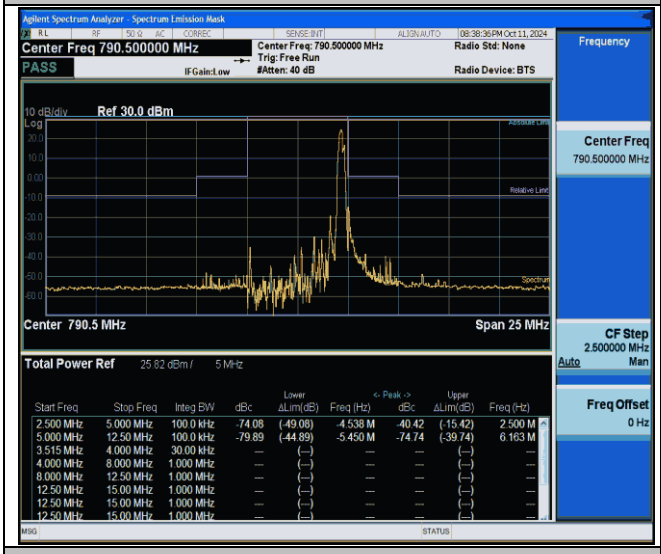

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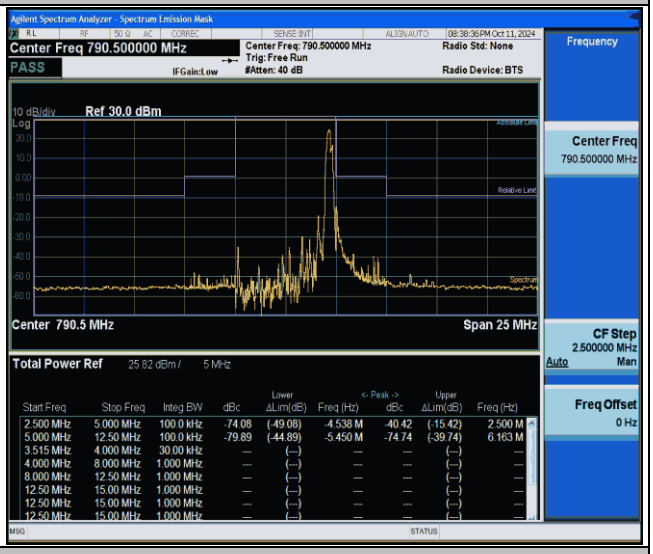

NTNV-Band14-5MHz-16QAM-23305-1RB#24--2.50-2.50-PASS

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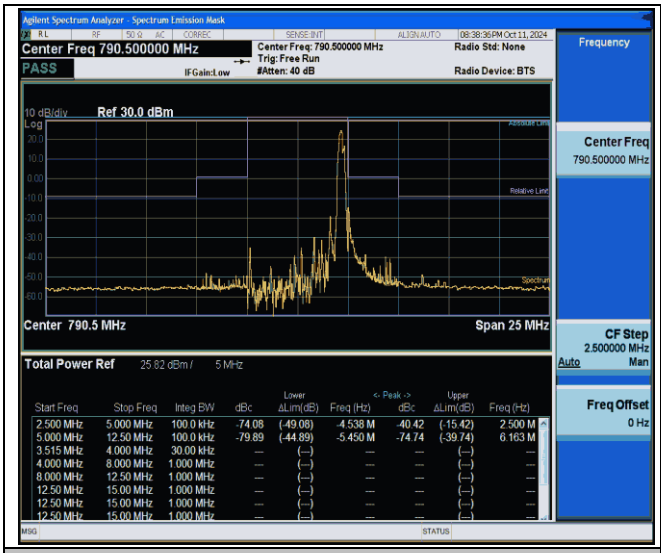

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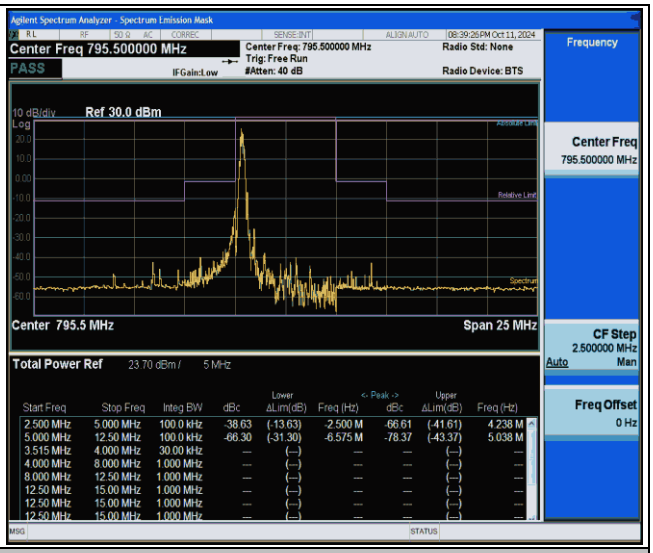

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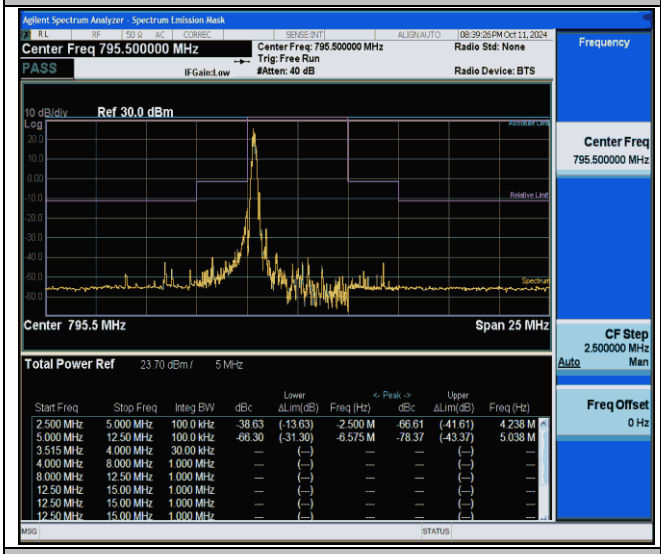

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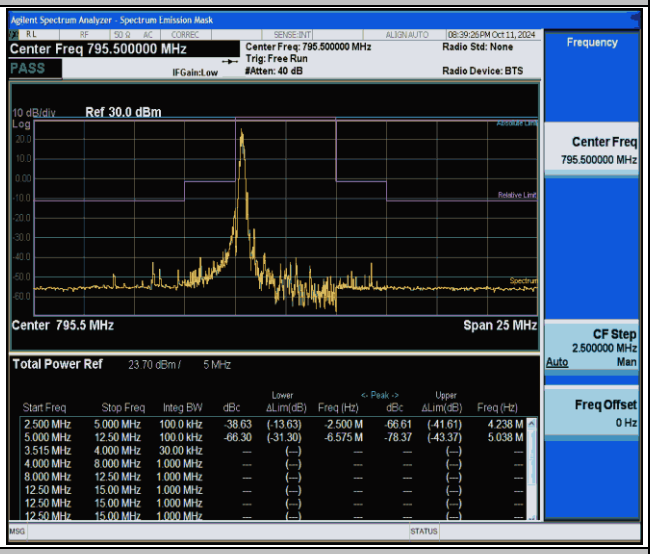

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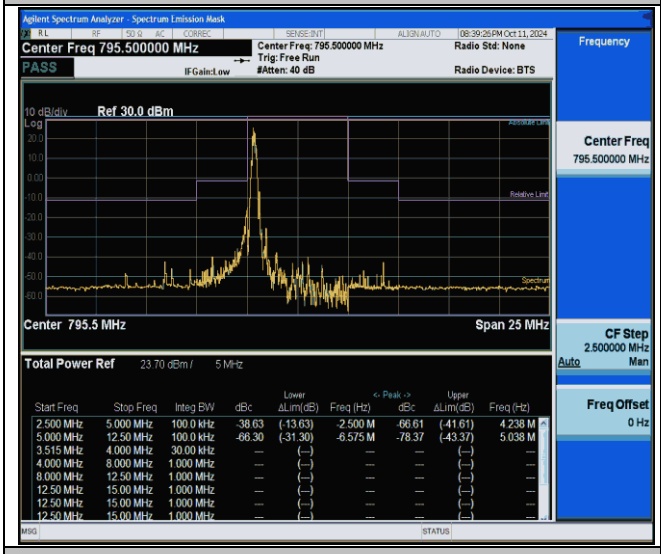

NTNV-Band14-5MHz-16QAM-23355-1RB#0-5.00-12.50-PASS

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

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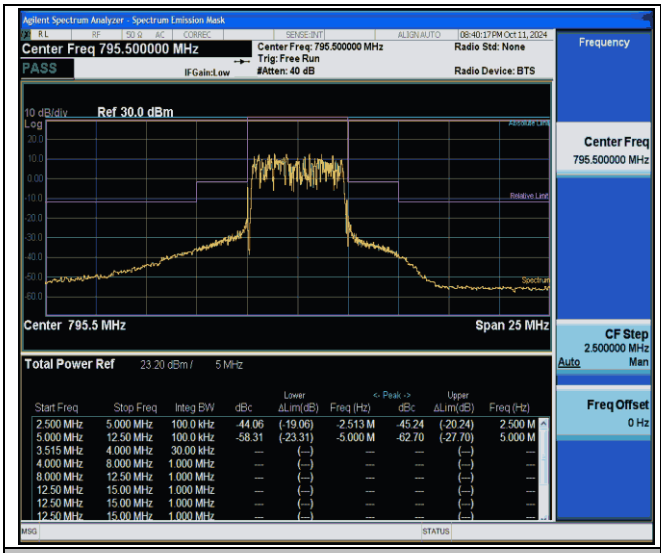

NTNV-Band14-5MHz-16QAM-23355-25RB#0--5.00--2.50-PASS

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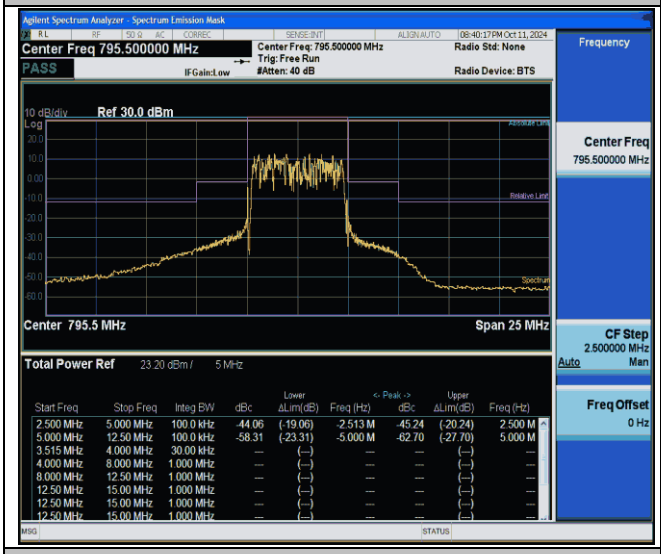

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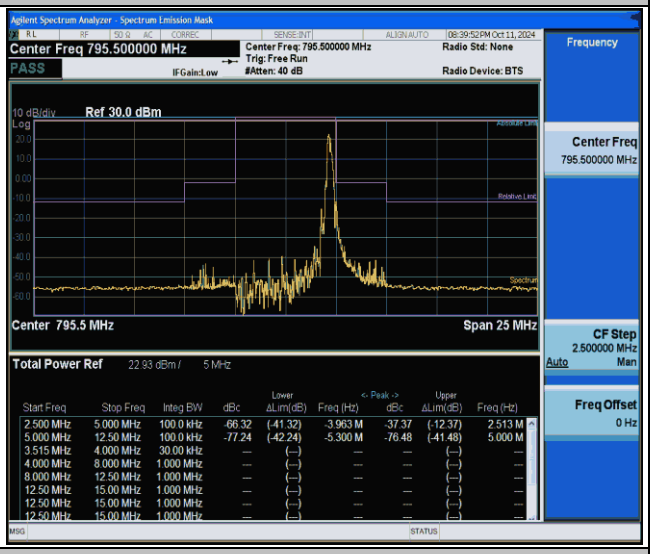

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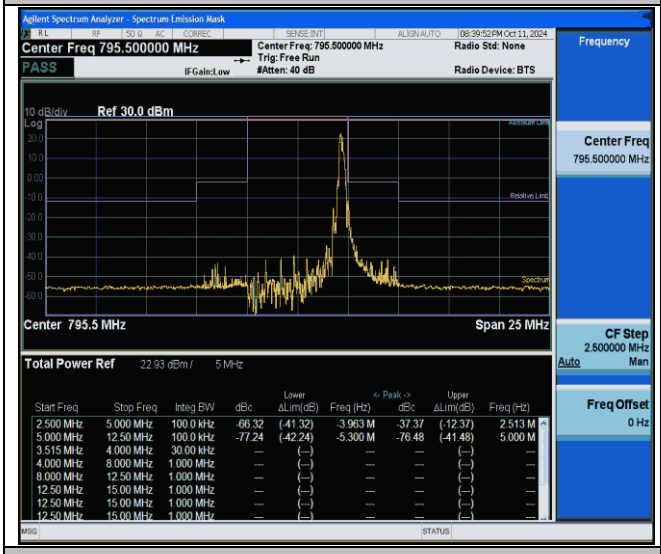

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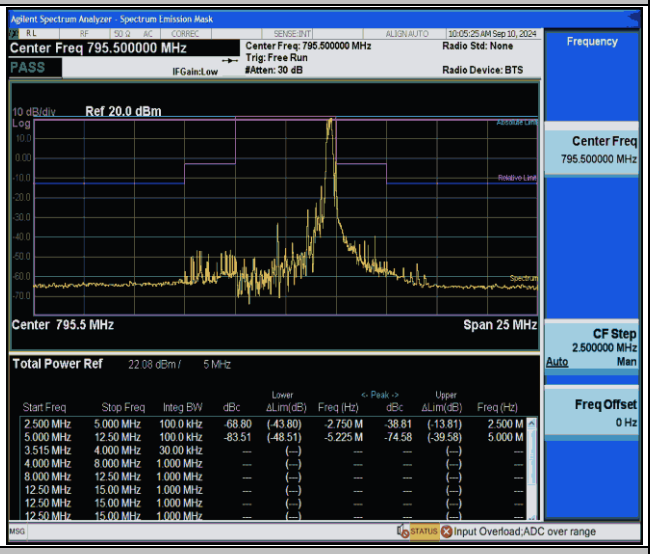

NTNV-Band14-5MHz-16QAM-23355-1RB#24--2.50-2.50-PASS

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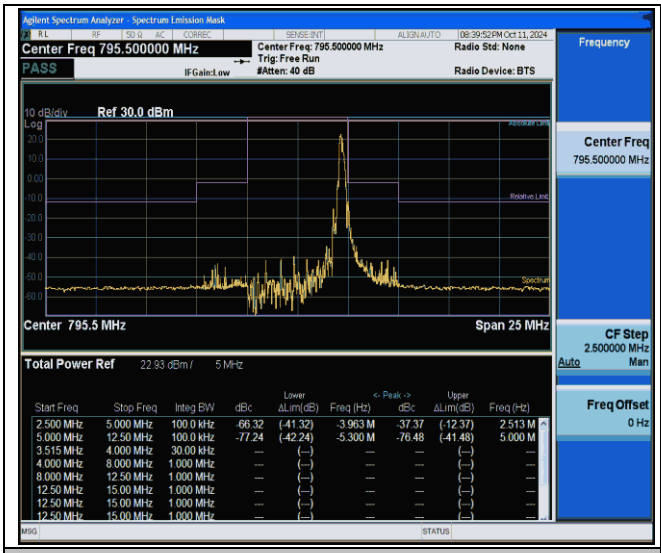

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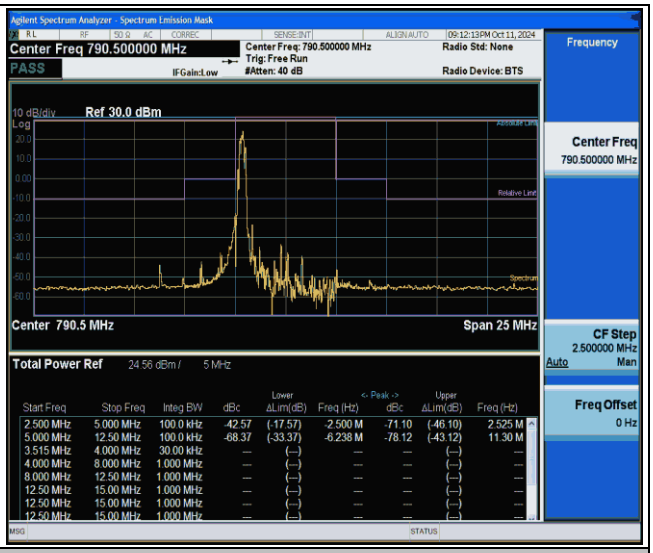

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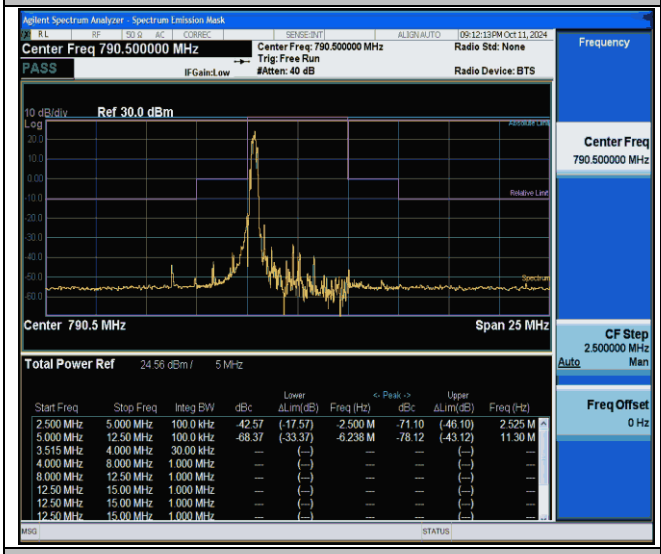

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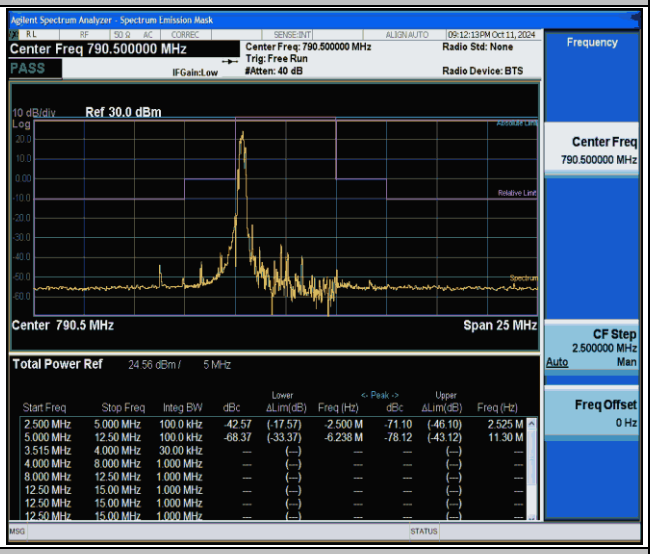

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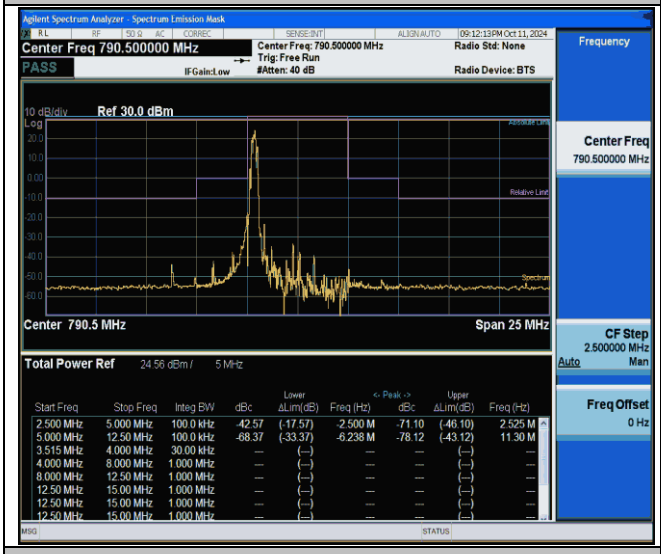

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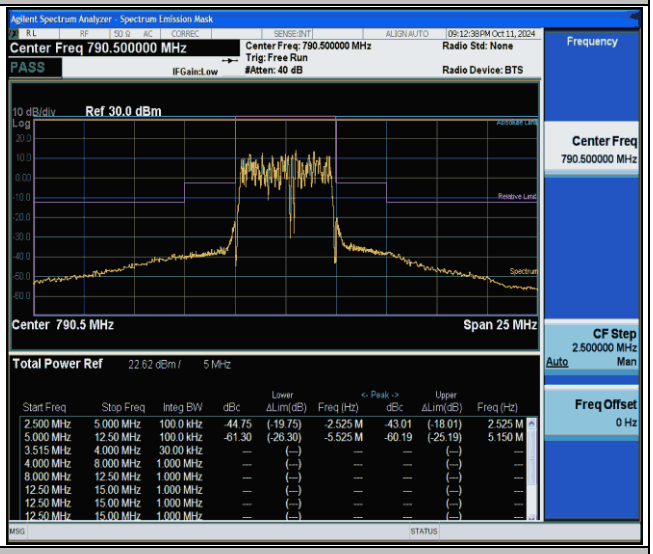

NTNV-Band14-5MHz-64QAM-23305-25RB#0--12.50--5.00-PASS

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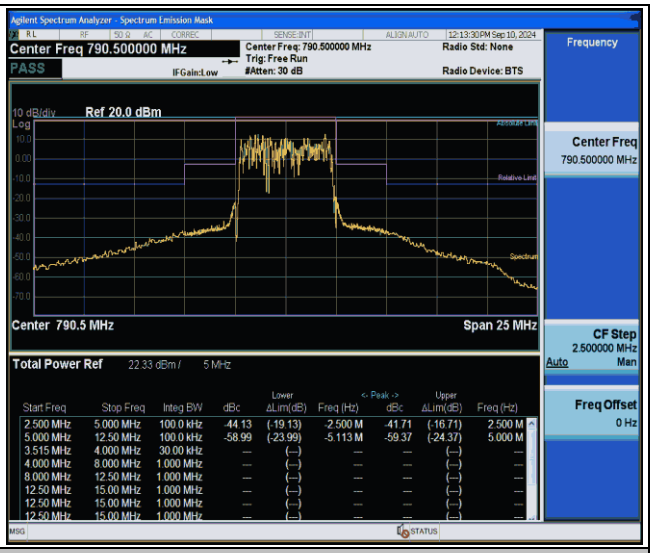

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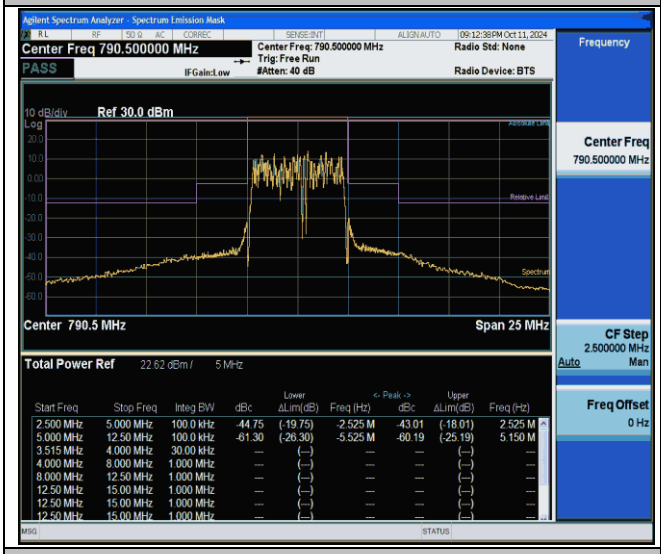

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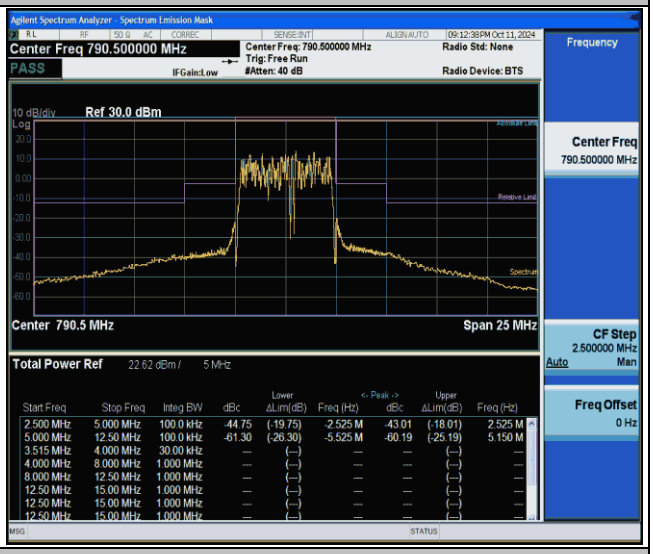

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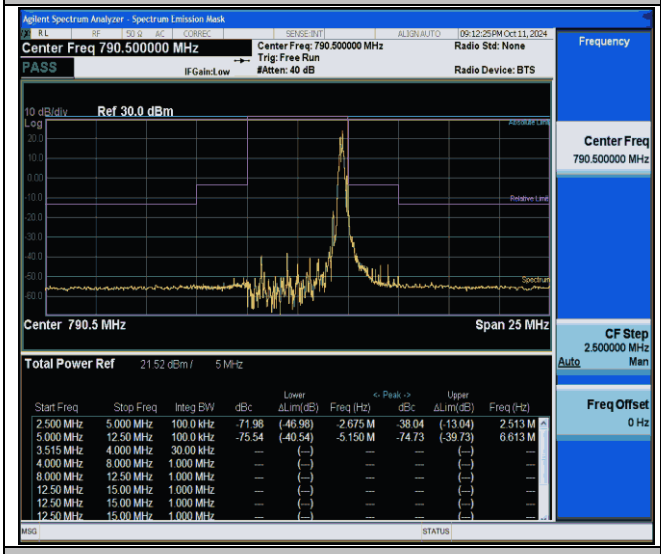

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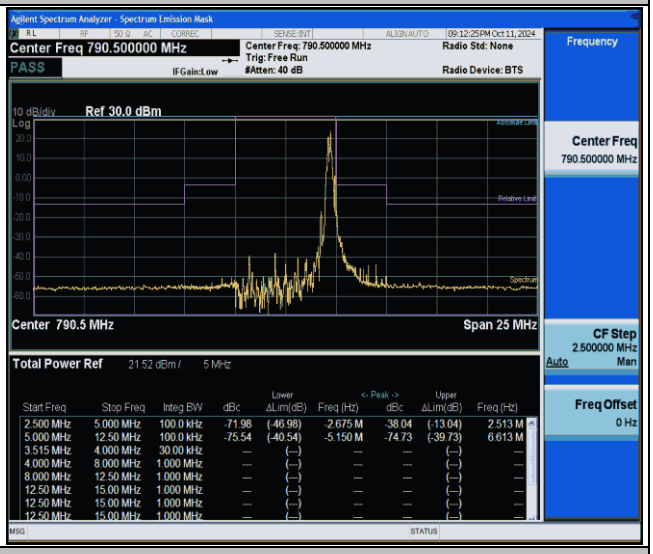

NTNV-Band14-5MHz-64QAM-23305-1RB#24--5.00--2.50-PASS

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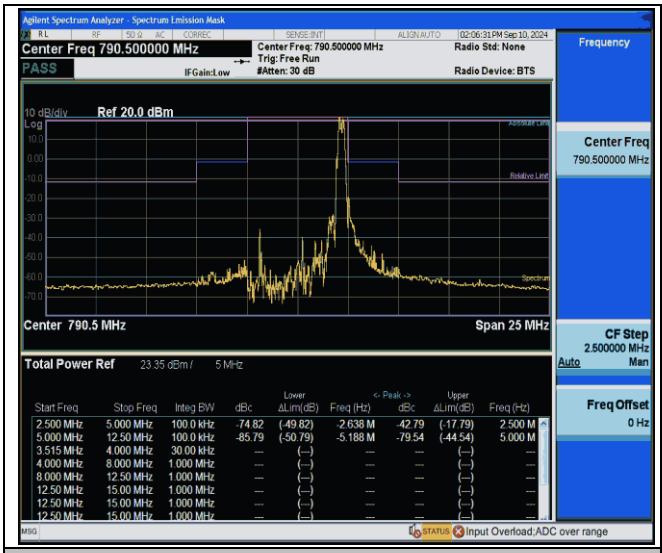

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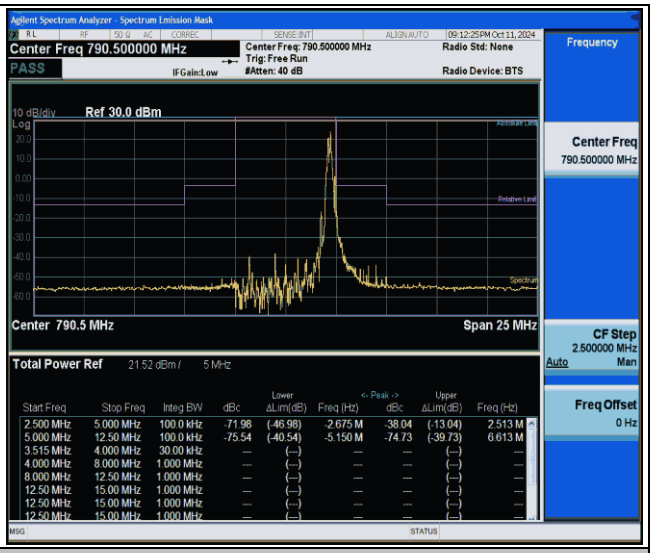

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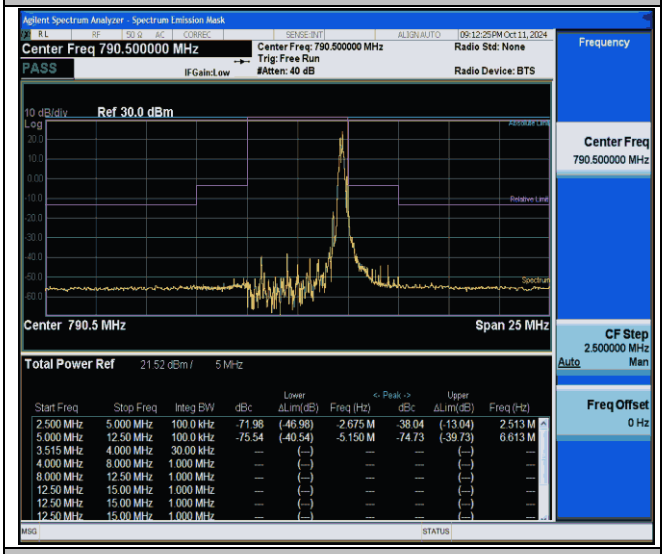

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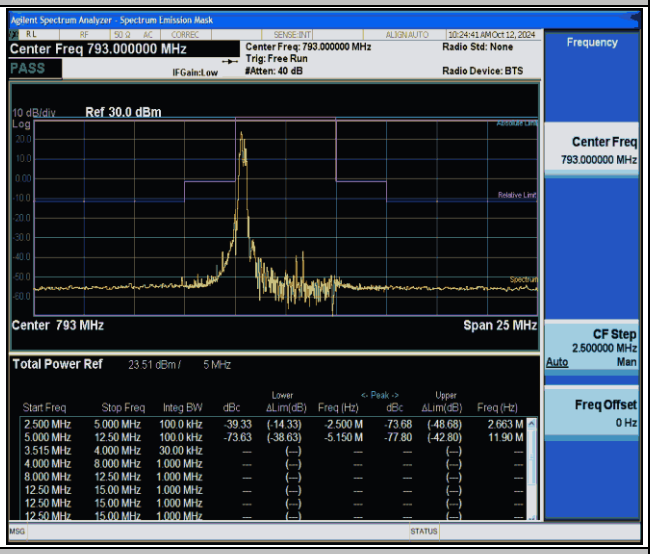

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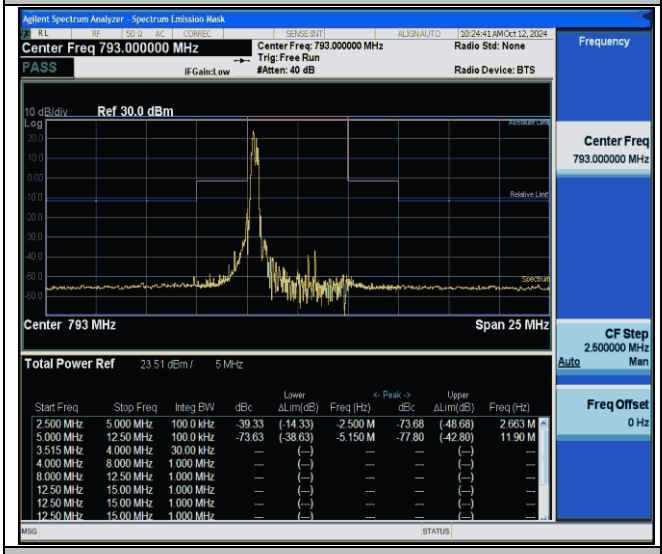

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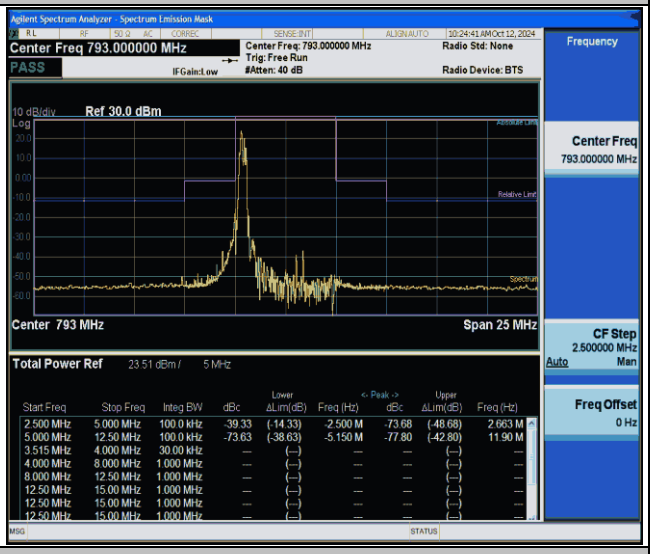

NTNV-Band14-5MHz-64QAM-23330-1RB#0-2.50-5.00-PASS

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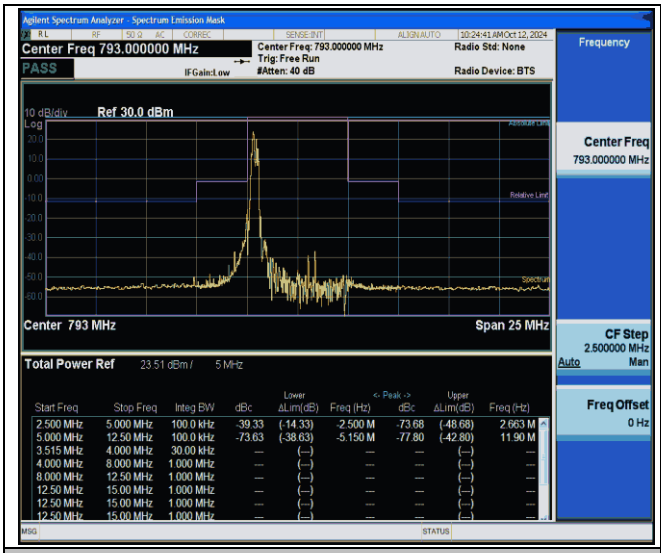

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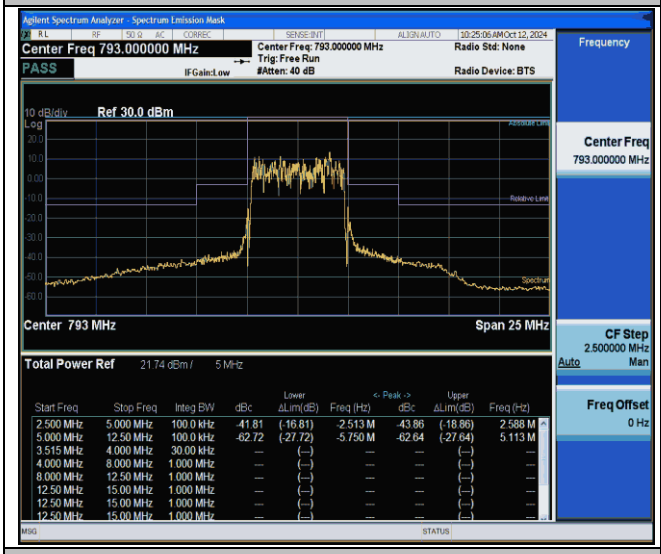

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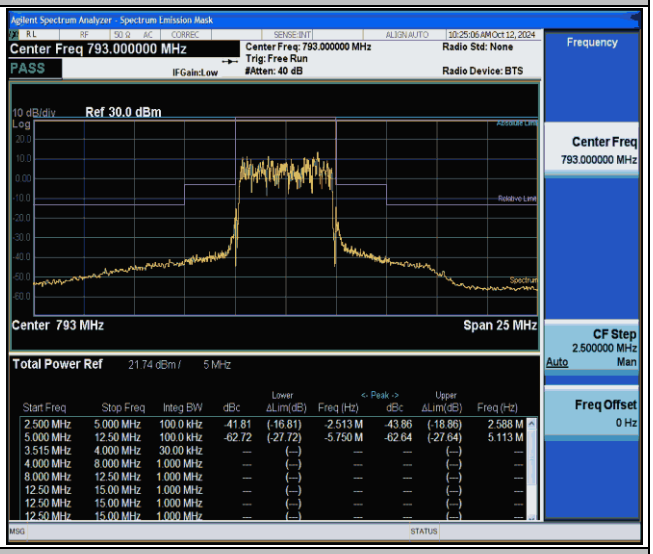

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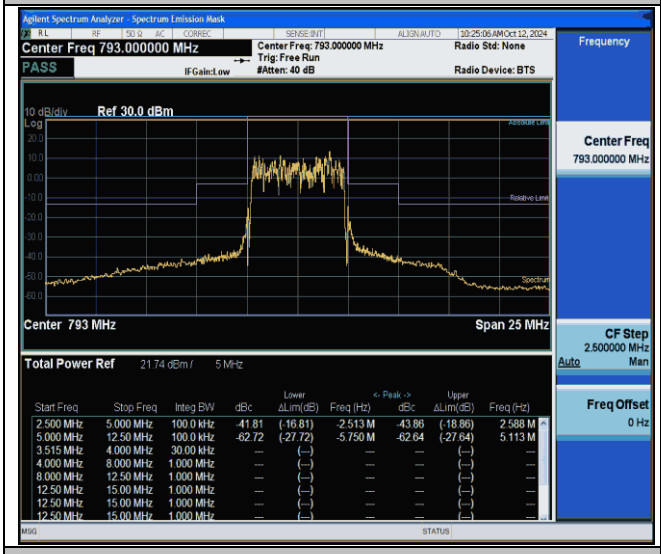

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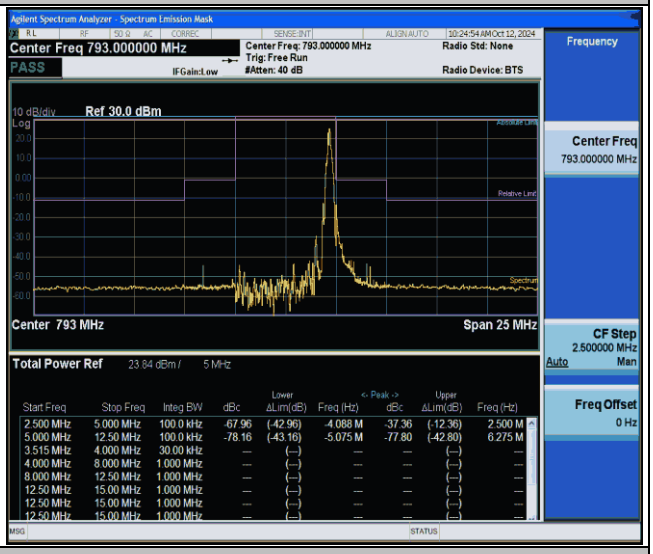

NTNV-Band14-5MHz-64QAM-23330-1RB#24--12.50--5.00-PASS

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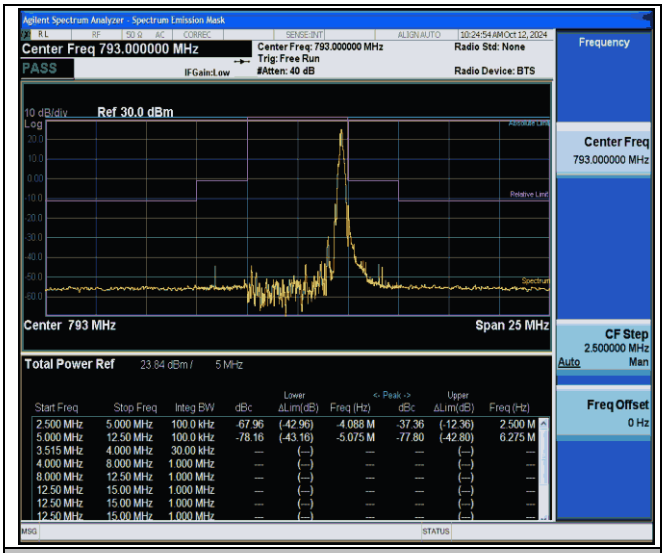

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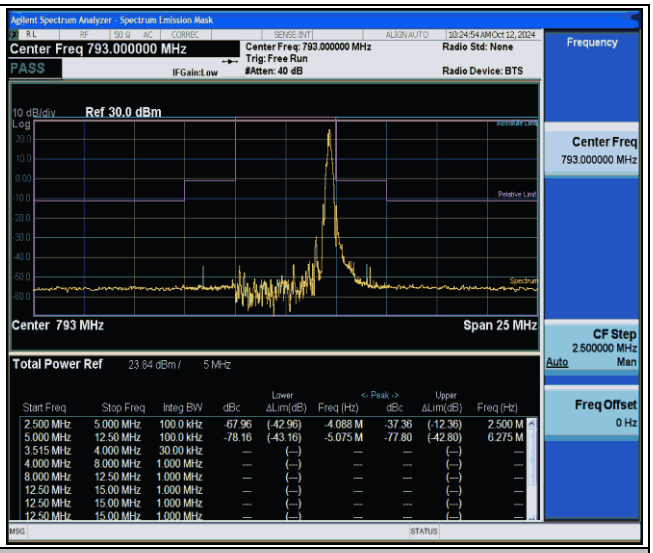

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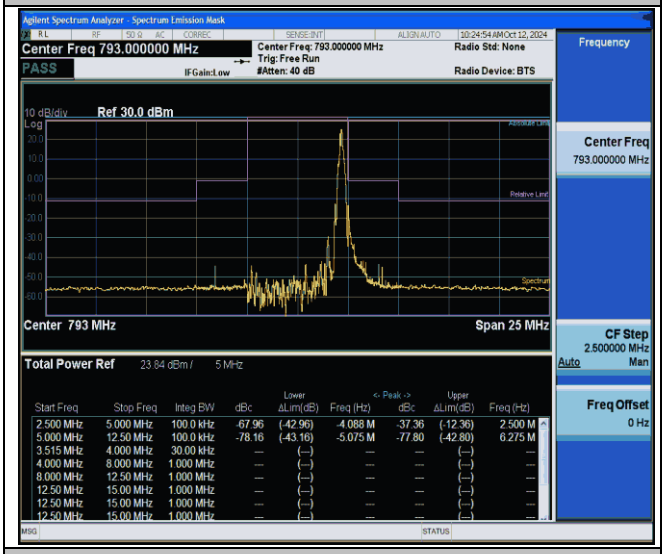

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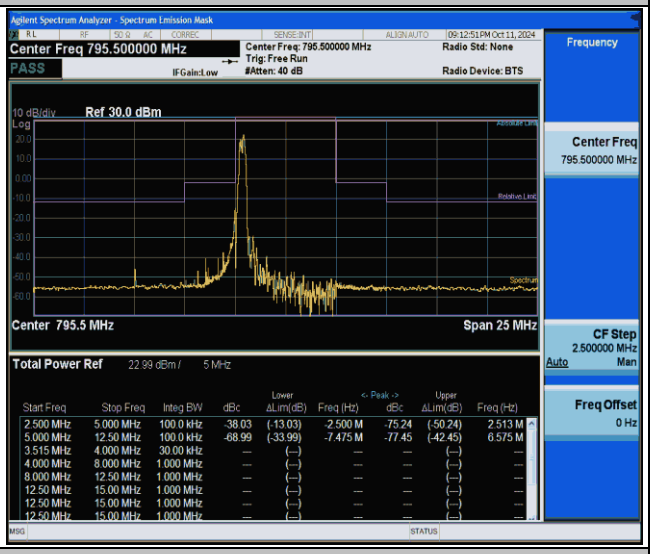

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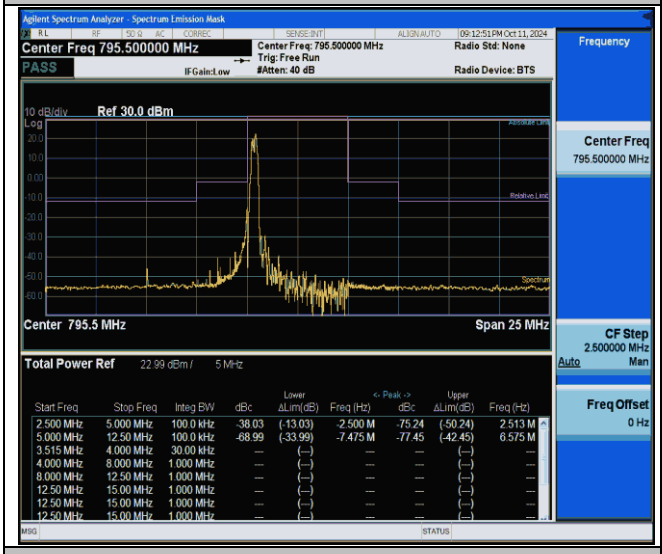
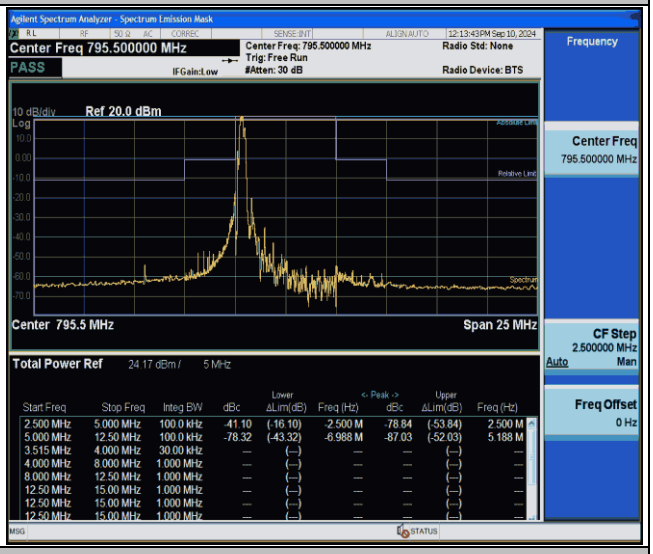


NTNV-Band14-5MHz-64QAM-23355-1RB#0--5.00--2.50-PASS



NTNV-Band14-5MHz-64QAM-23355-1RB#0--2.50-2.50-PASS

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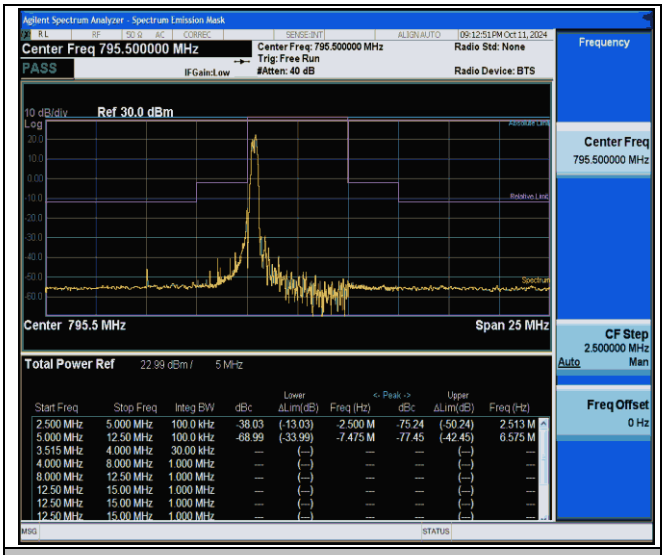

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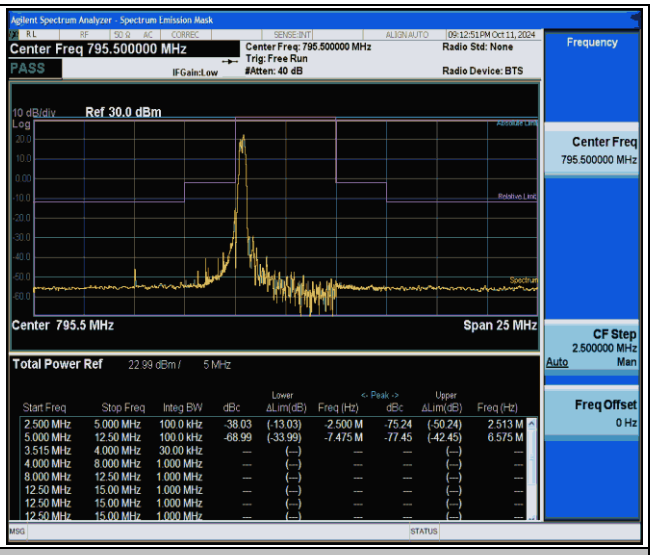
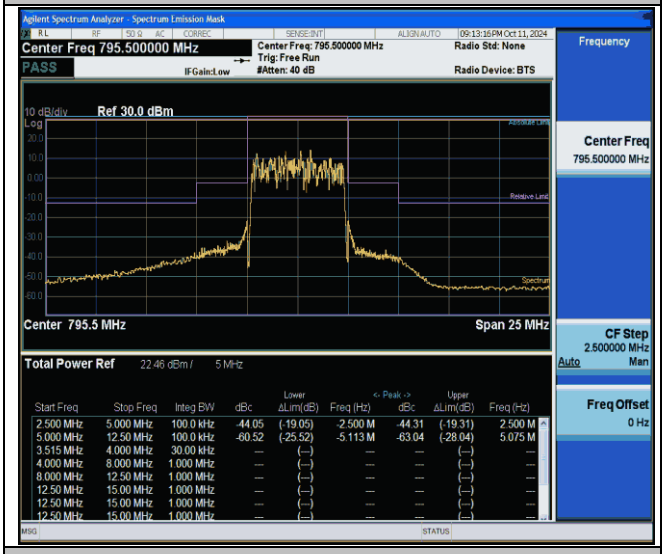


NTNV-Band14-5MHz-64QAM-23355-1RB#0-5.00-12.50-PASS

NTNV-Band14-5MHz-64QAM-23355-25RB#0--12.50--5.00-PASS

NTNV-Band14-5MHz-64QAM-23355-25RB#0--5.00--2.50-PASS



NTNV-Band14-5MHz-64QAM-23355-25RB#0--2.50-2.50-PASS

NTNV-Band14-5MHz-64QAM-23355-25RB#0-2.50-5.00-PASS

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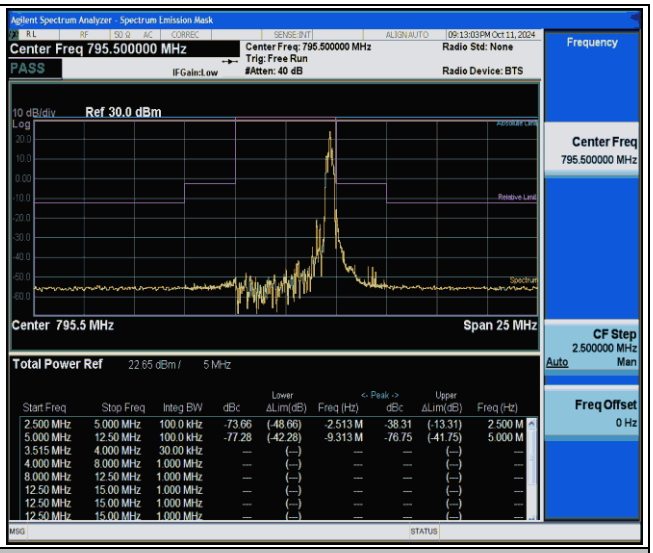
NTNV-Band14-5MHz-64QAM-23355-25RB#0-5.00-12.50-PASS



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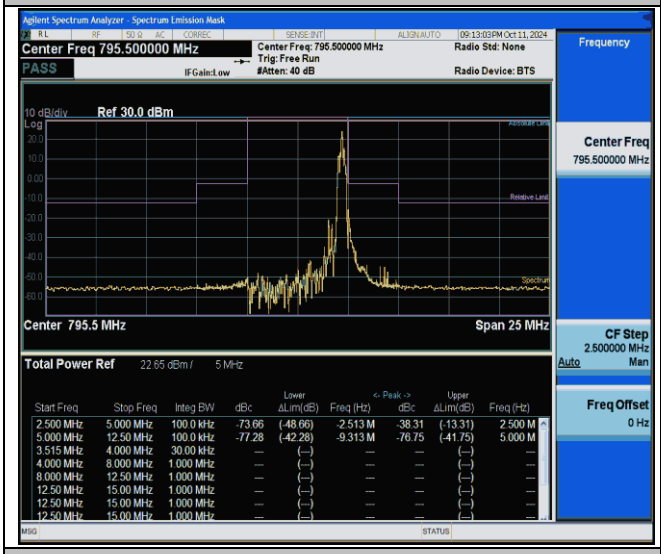

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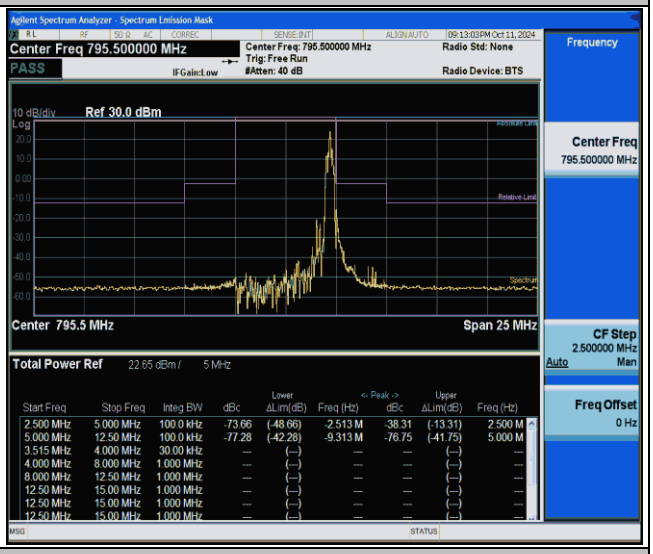

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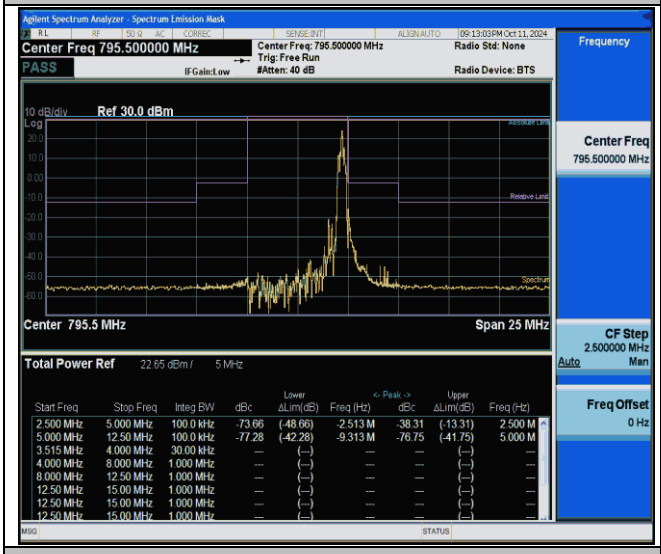

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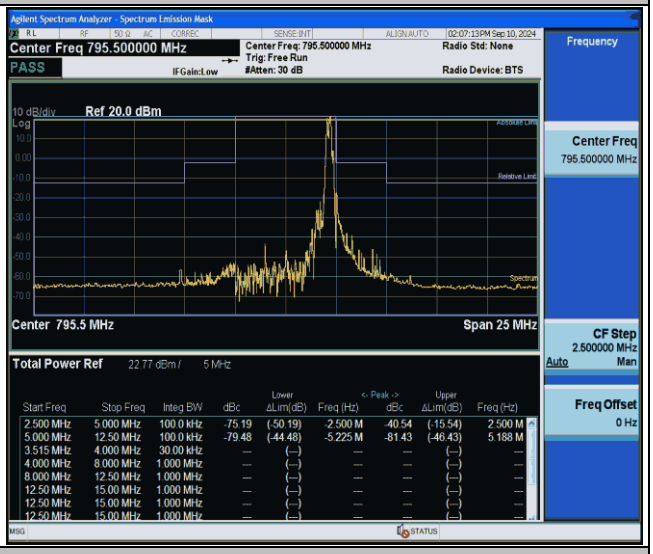

NTNV-Band14-5MHz-64QAM-23355-1RB#24-5.00-12.50-PASS

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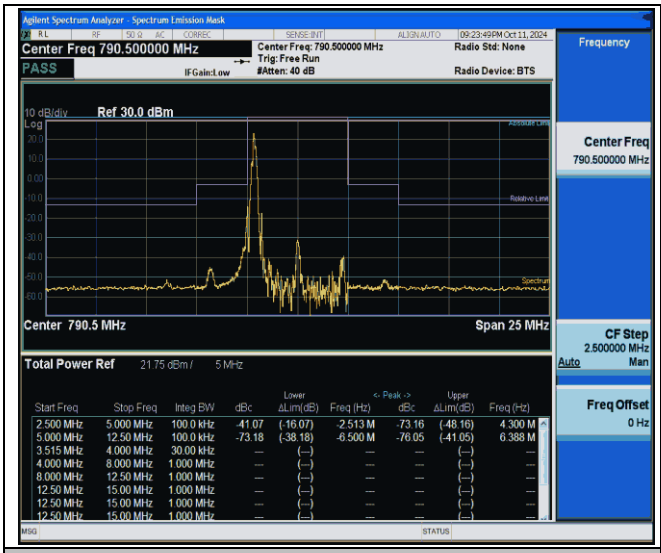

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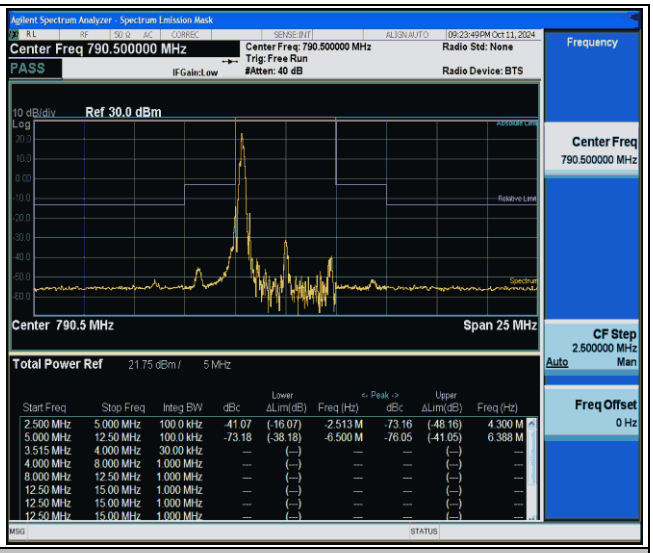

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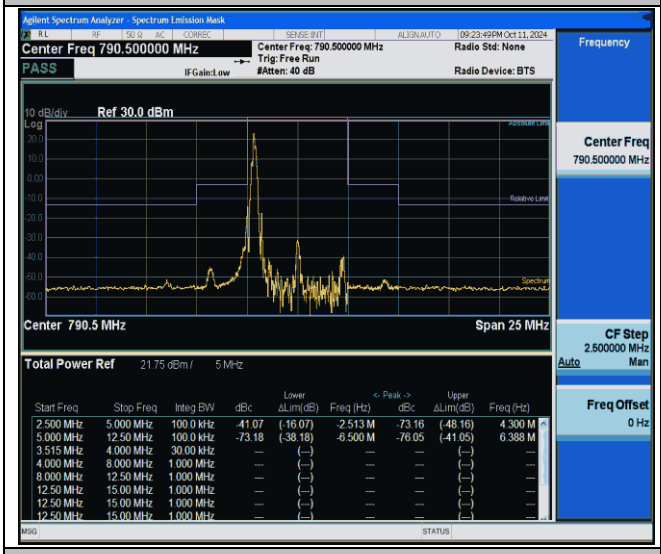

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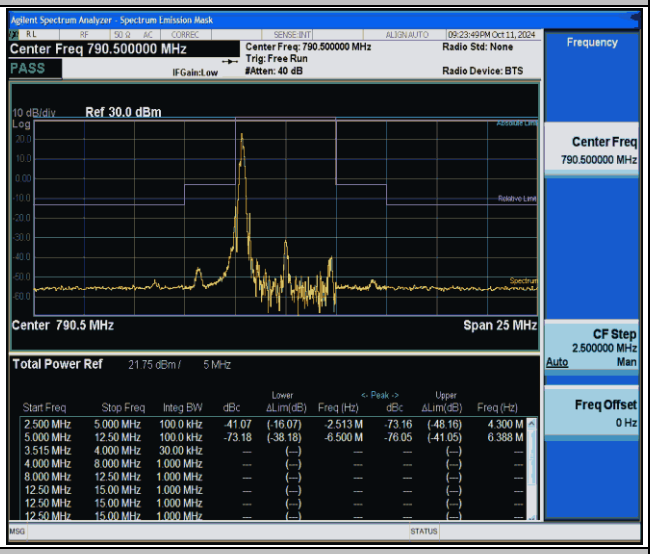

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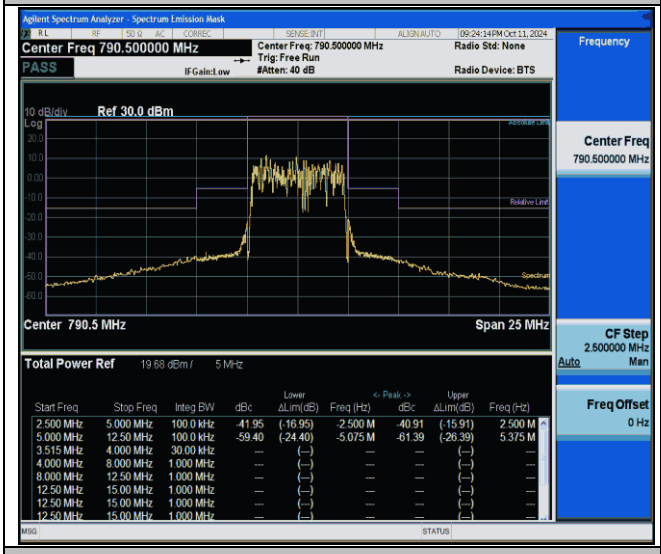

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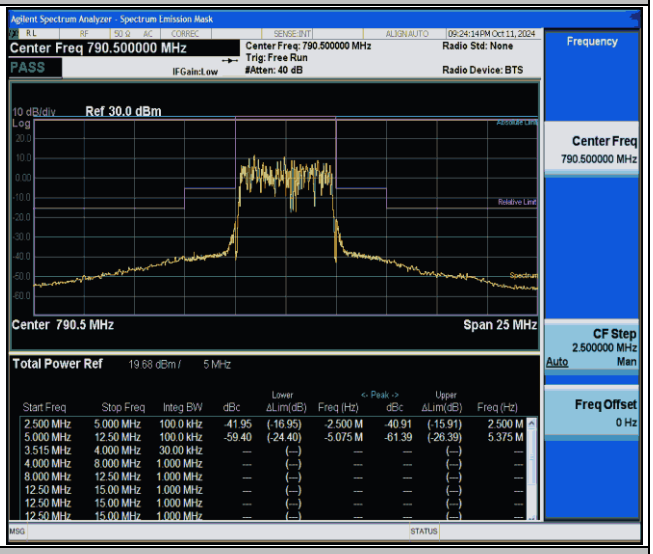

NTNV-Band14-5MHz-256QAM-23305-25RB#0--5.00--2.50-PASS

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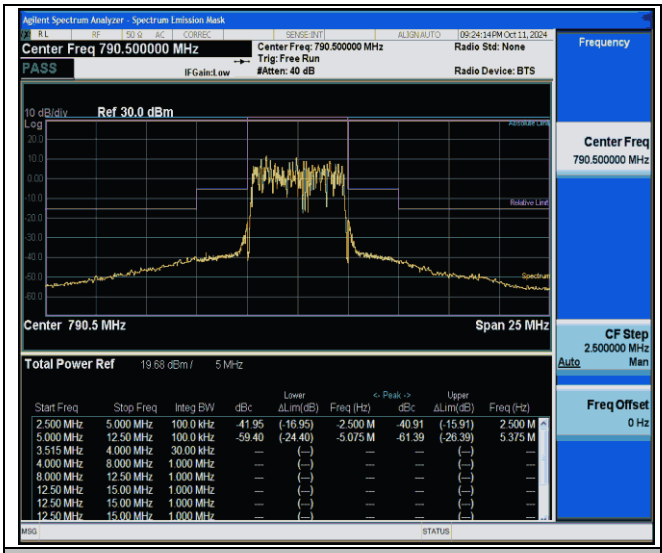

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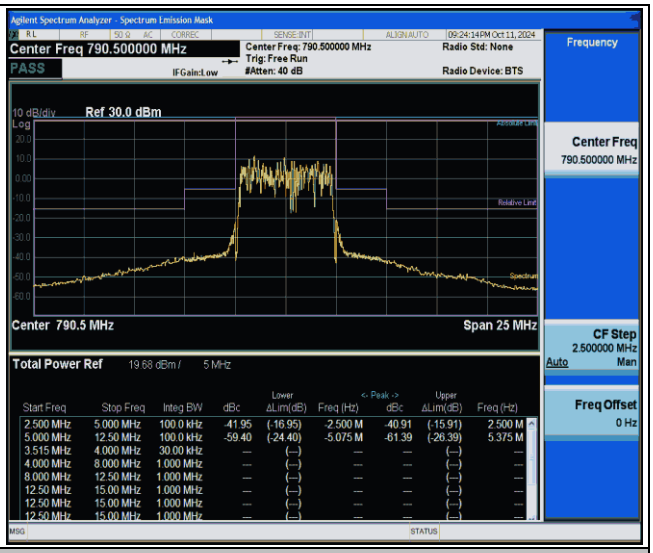
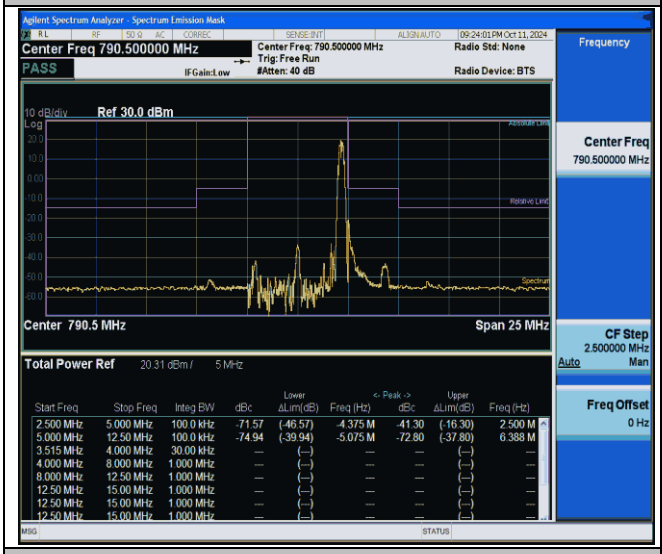
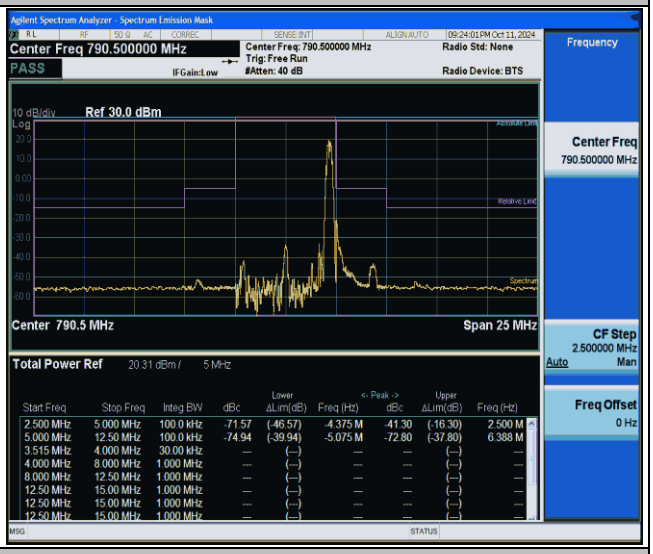


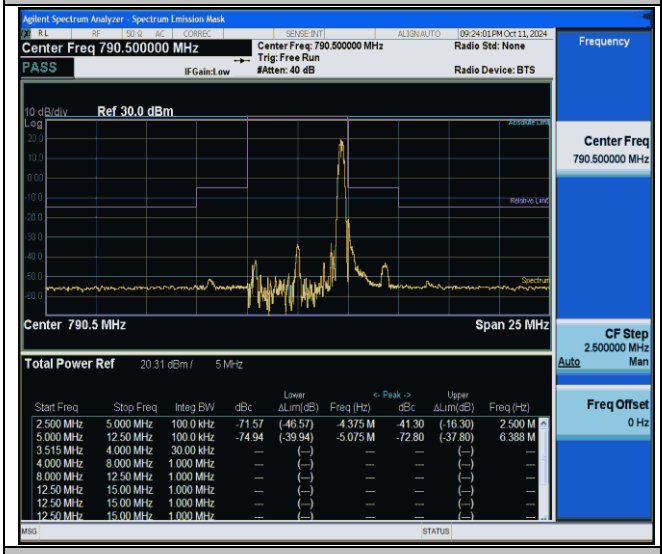
NTNV-Band14-5MHz-256QAM-23305-25RB#0-5.00-12.50-PASS



NTNV-Band14-5MHz-256QAM-23305-1RB#24--12.50--5.00-PASS



NTNV-Band14-5MHz-256QAM-23305-1RB#24--5.00--2.50-PASS



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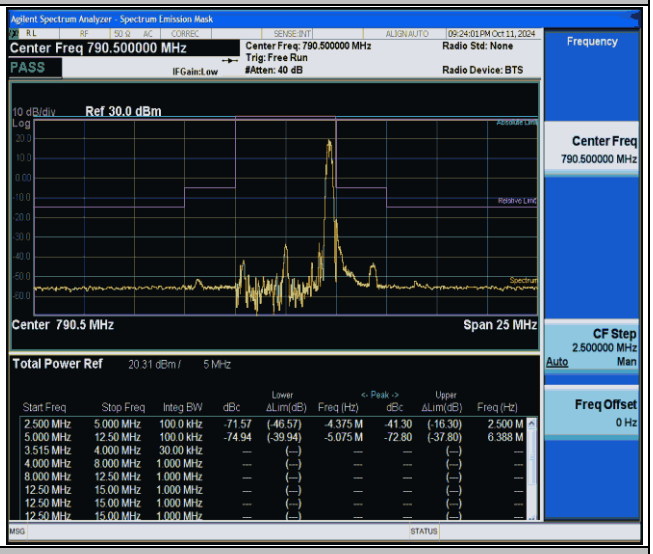

NTNV-Band14-5MHz-256QAM-23305-1RB#24-5.00-12.50-PASS

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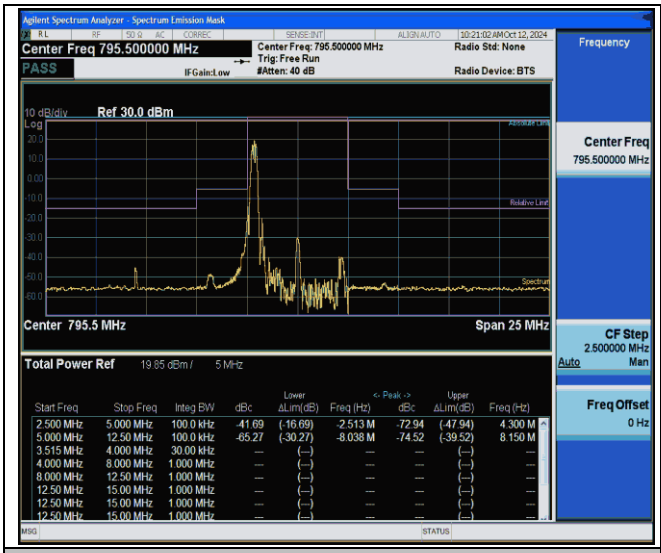

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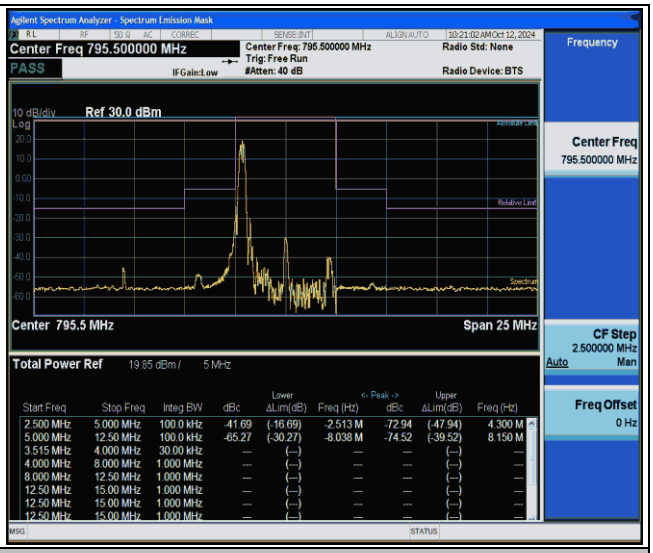
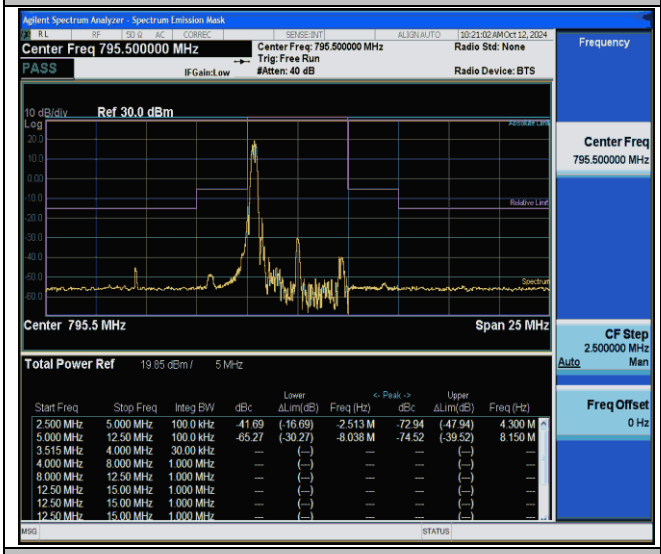


NTNV-Band14-5MHz-256QAM-23355-1RB#0--5.00--2.50-PASS



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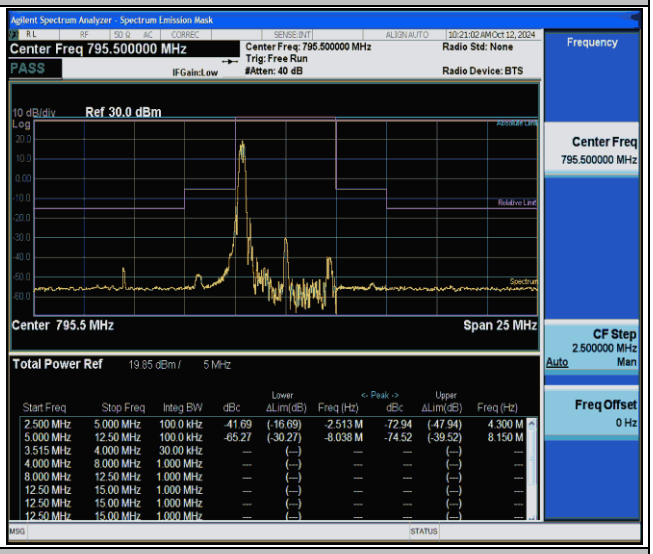

NTNV-Band14-5MHz-256QAM-23355-1RB#0-5.00-12.50-PASS

NTNV-Band14-5MHz-256QAM-23355-25RB#0--12.50--5.00-PASS

NTNV-Band14-5MHz-256QAM-23355-25RB#0--5.00--2.50-PASS

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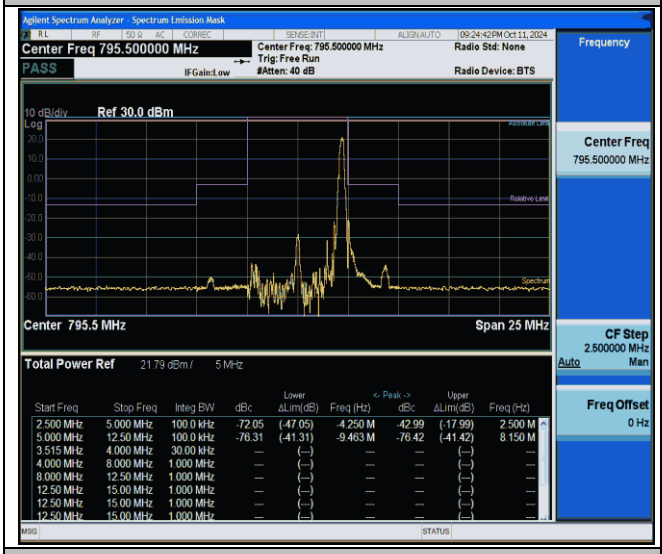
NTNV-Band14-5MHz-256QAM-23355-25RB#0-2.50-5.00-PASS

NTNV-Band14-5MHz-256QAM-23355-25RB#0-5.00-12.50-PASS



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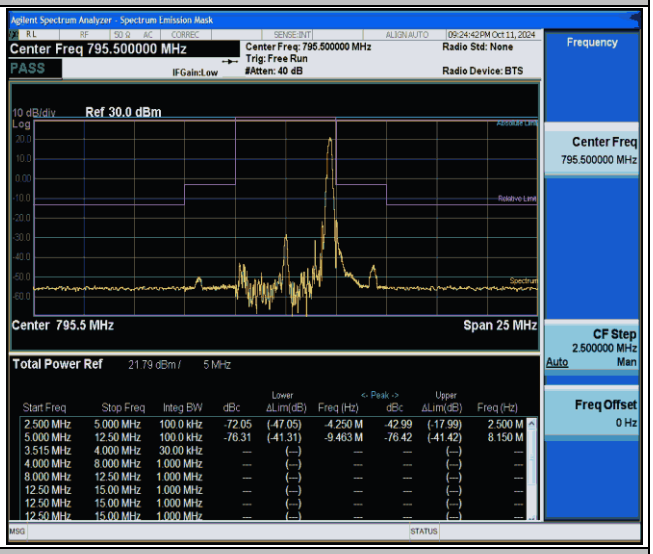
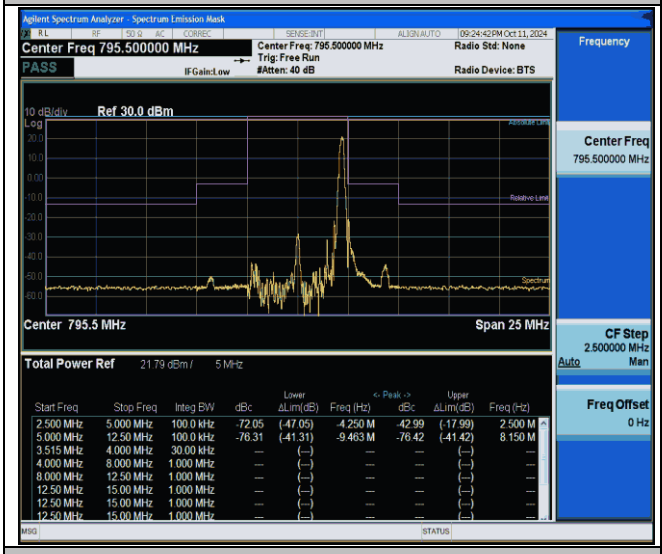


NTNV-Band14-5MHz-256QAM-23355-1RB#24--5.00--2.50-PASS



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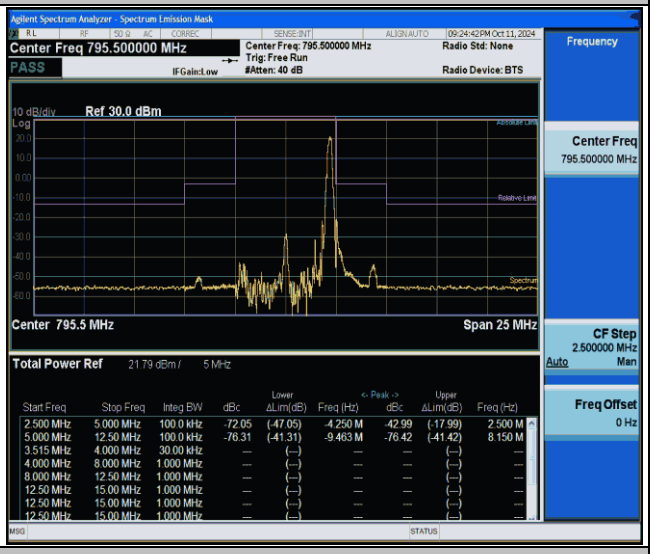

NTNV-Band14-5MHz-256QAM-23355-1RB#24-5.00-12.50-PASS

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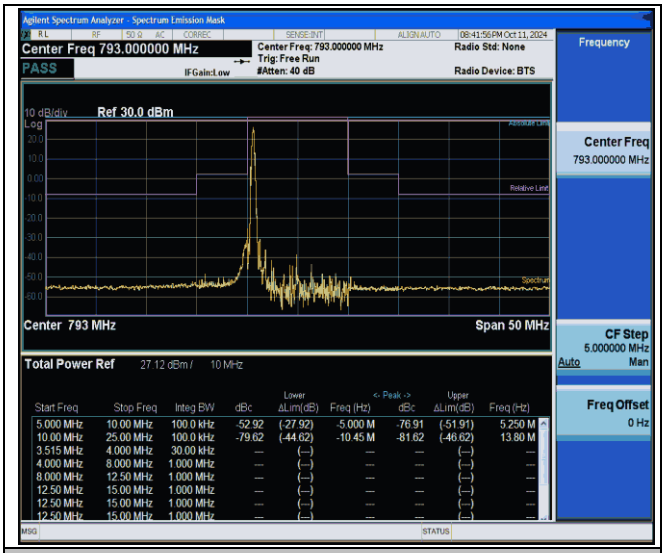
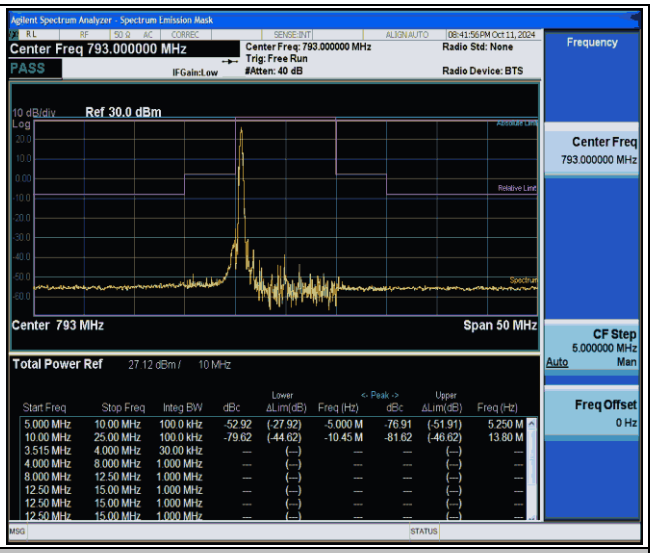


NTNV-Band14-10MHz-QPSK-23330-1RB#0--25.00--10.00-PASS



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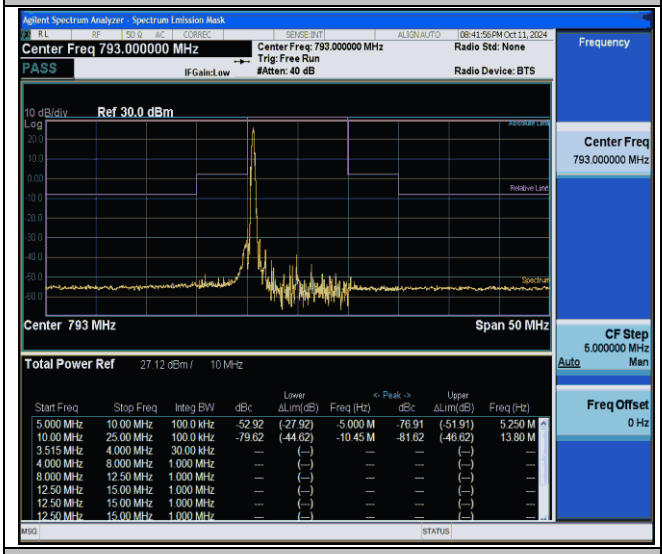

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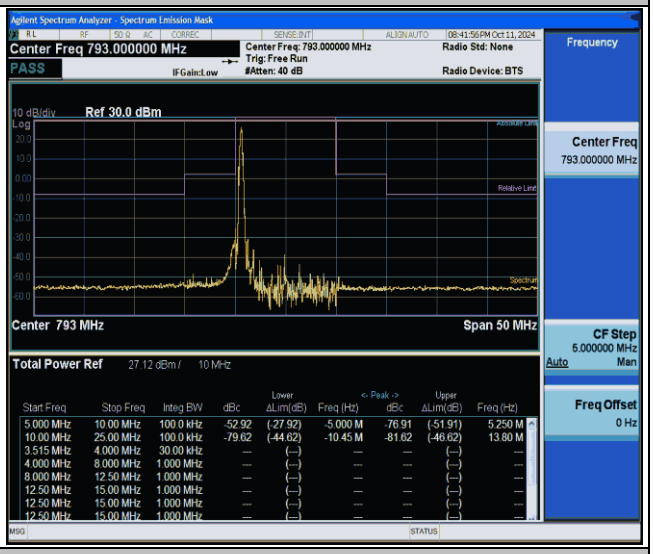

NTNV-Band14-10MHz-QPSK-23330-1RB#0-10.00-25.00-PASS

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

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

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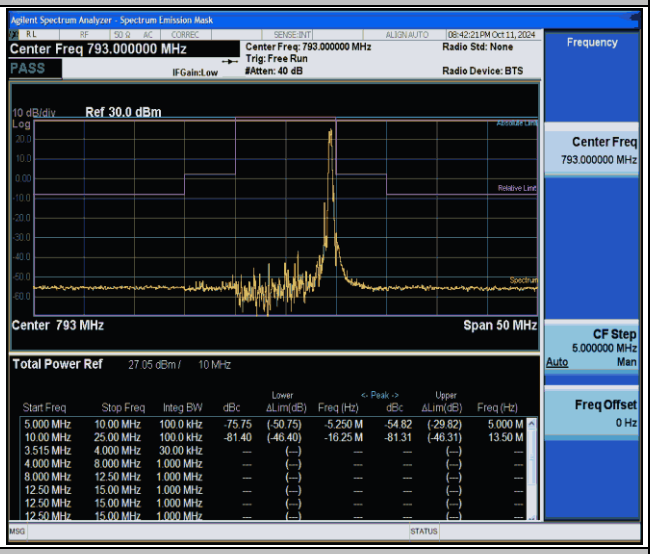
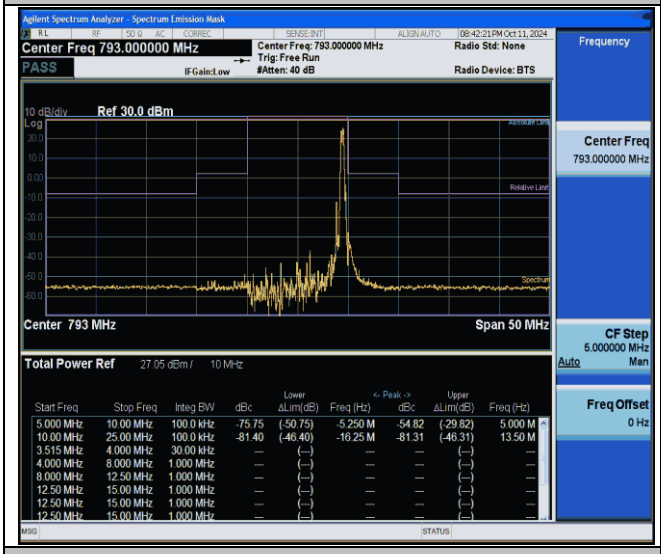
NTNV-Band14-10MHz-QPSK-23330-50RB#0--5.00-5.00-PASS

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

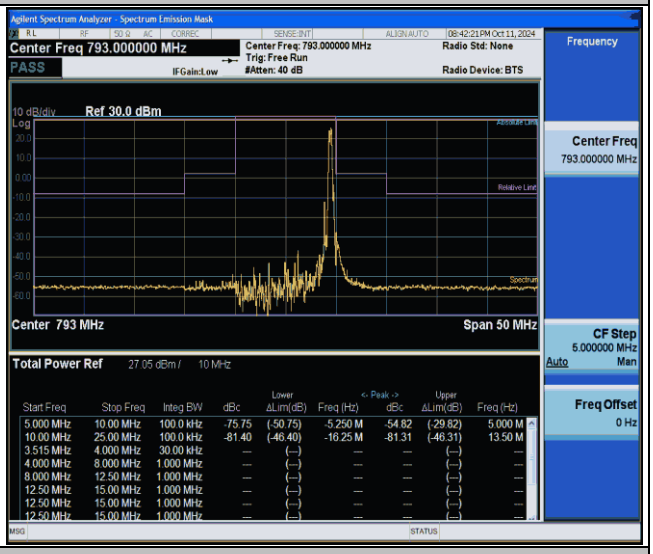
NTNV-Band14-10MHz-QPSK-23330-50RB#0-10.00-25.00-PASS



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



NTNV-Band14-10MHz-QPSK-23330-1RB#49--10.00--5.00-PASS



NTNV-Band14-10MHz-QPSK-23330-1RB#49--5.00-5.00-PASS

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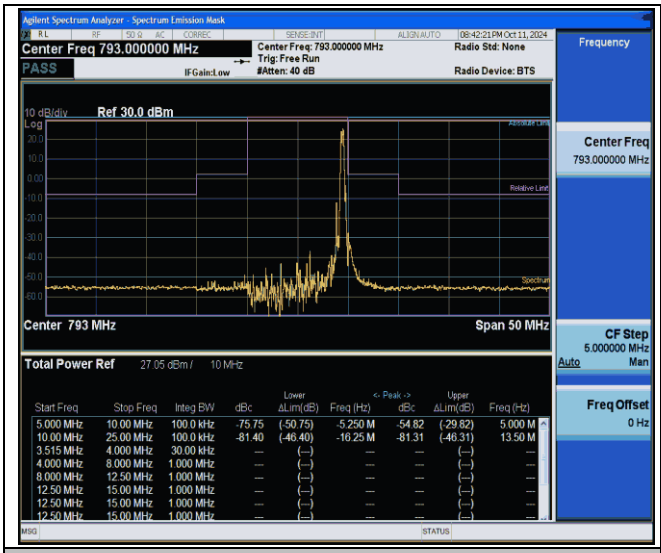

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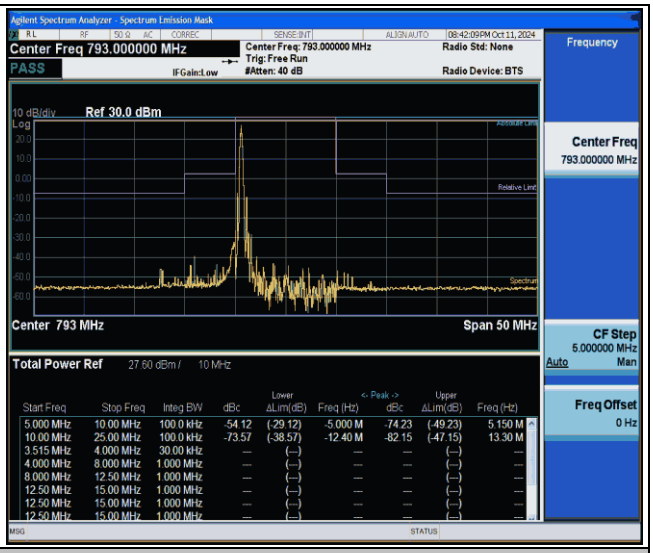
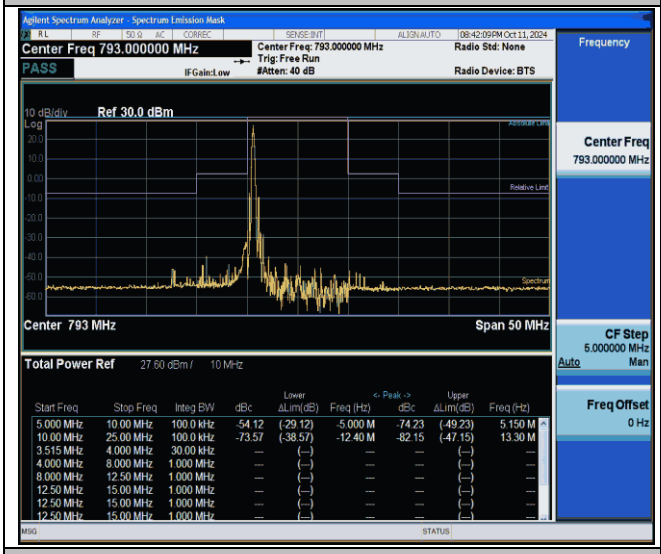


NTNV-Band14-10MHz-16QAM-23330-1RB#0--25.00--10.00-PASS



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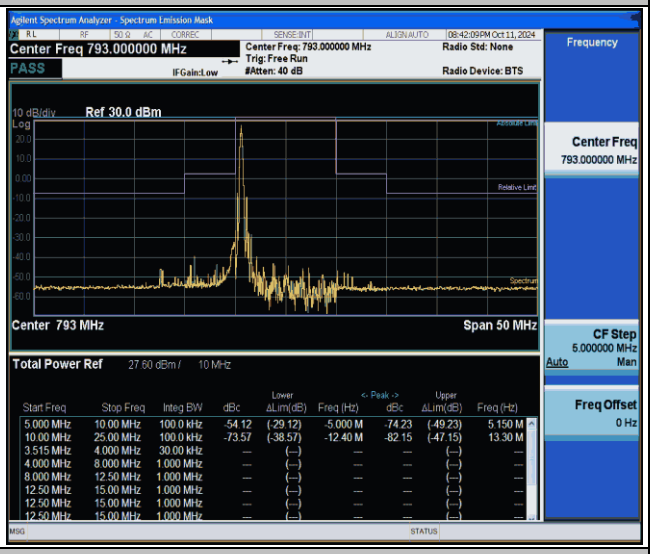
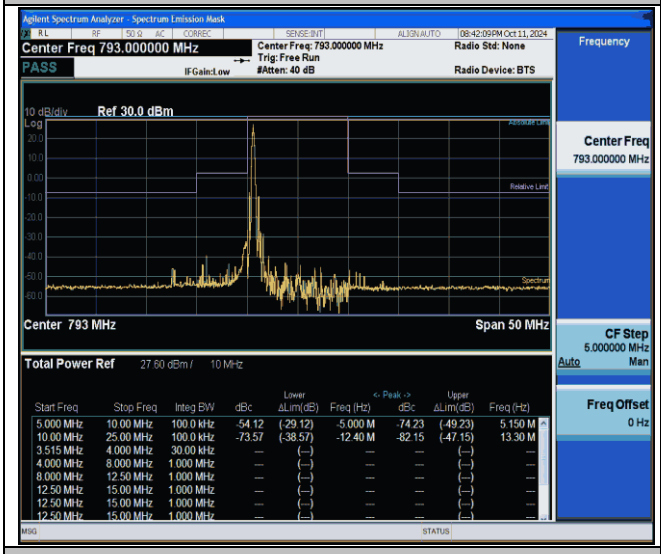


NTNV-Band14-10MHz-16QAM-23330-1RB#0-5.00-10.00-PASS



NTNV-Band14-10MHz-16QAM-23330-1RB#0-10.00-25.00-PASS

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

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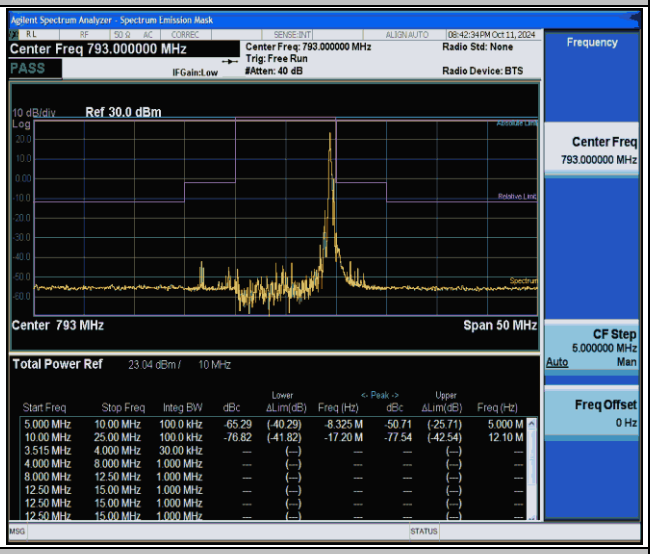
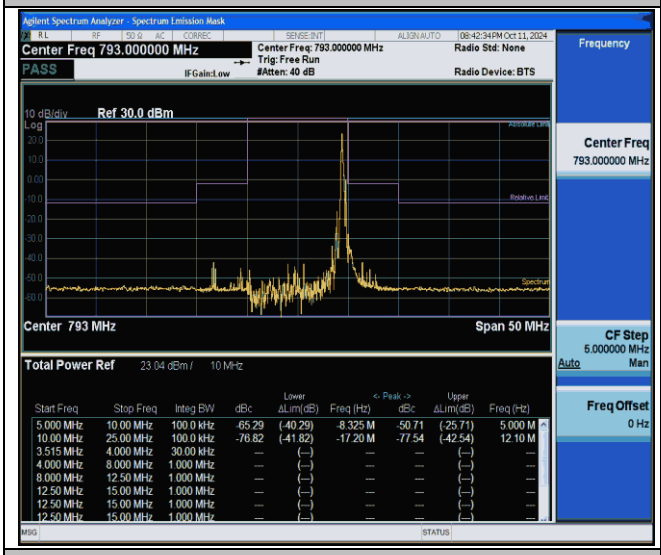
NTNV-Band14-10MHz-16QAM-23330-50RB#0--10.00--5.00-PASS

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

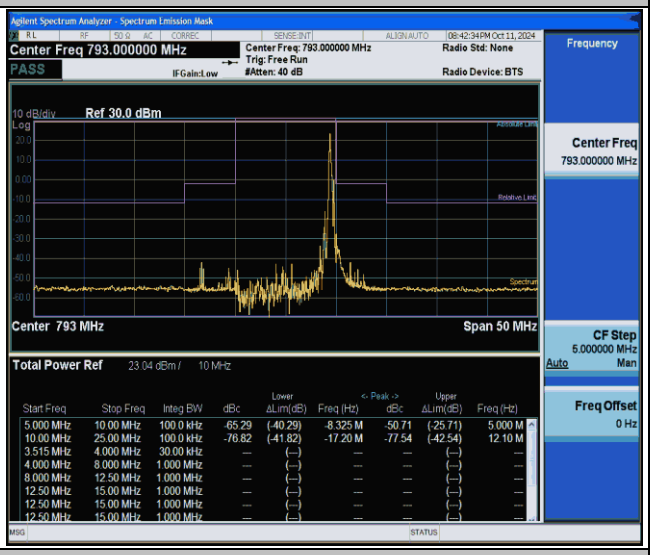
NTNV-Band14-10MHz-16QAM-23330-50RB#0-10.00-25.00-PASS



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



NTNV-Band14-10MHz-16QAM-23330-1RB#49--10.00--5.00-PASS



NTNV-Band14-10MHz-16QAM-23330-1RB#49--5.00-5.00-PASS

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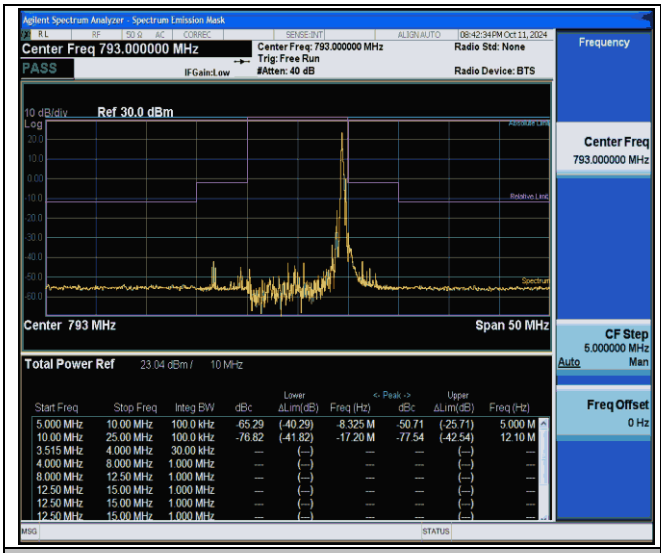
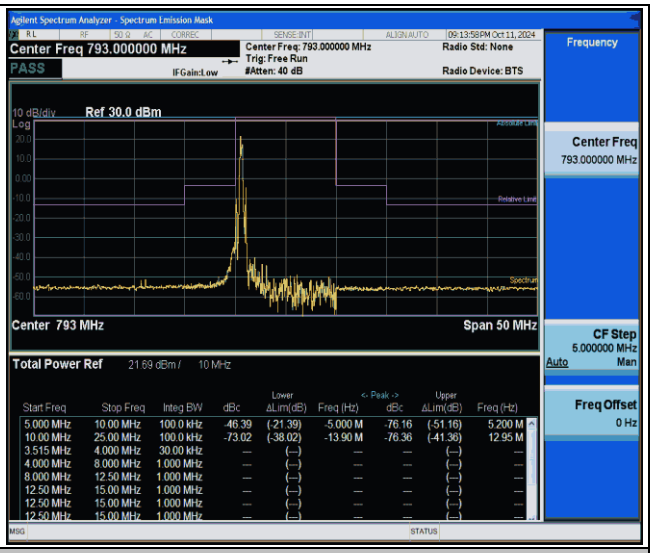
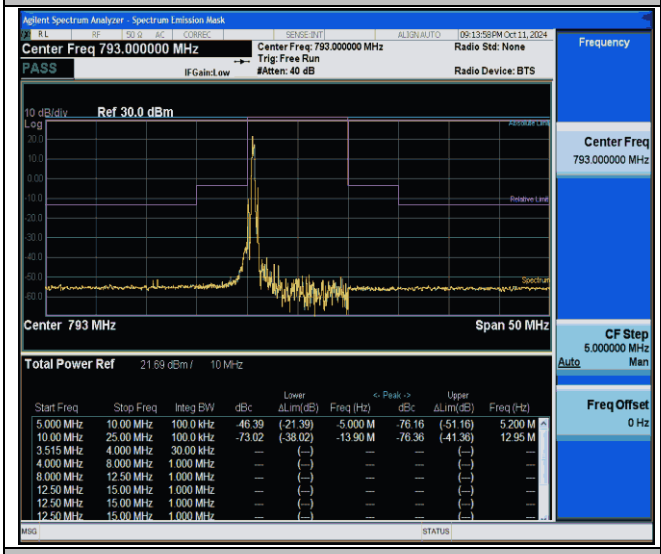


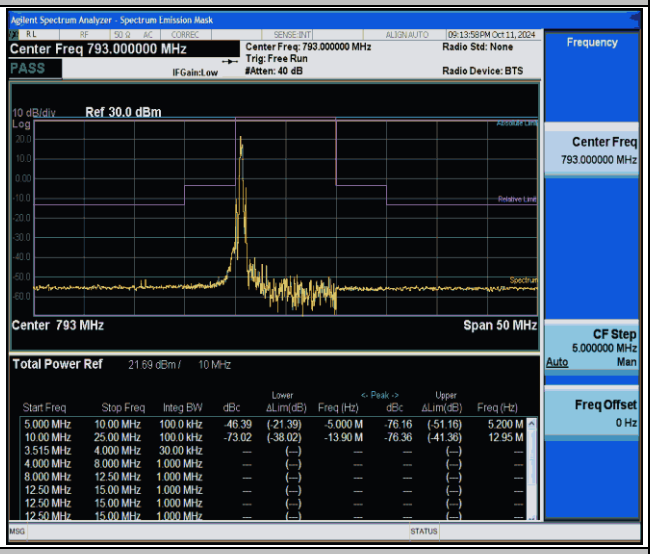
NTNV-Band14-10MHz-16QAM-23330-1RB#49-10.00-25.00-PASS



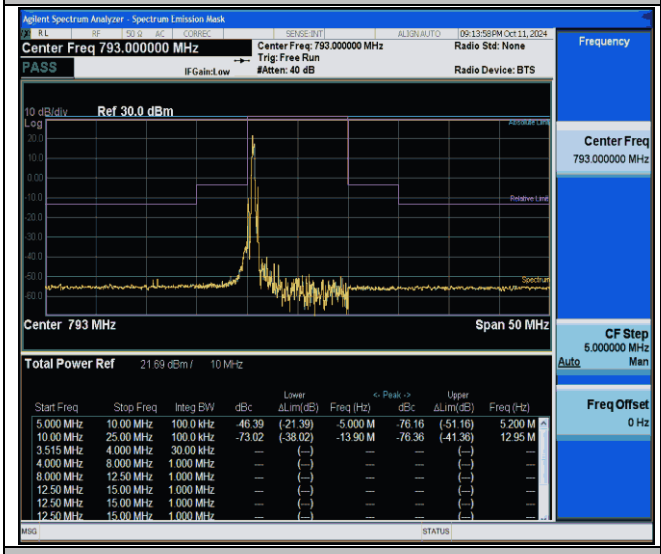
NTNV-Band14-10MHz-64QAM-23330-1RB#0--25.00--10.00-PASS



NTNV-Band14-10MHz-64QAM-23330-1RB#0--10.00--5.00-PASS



NTNV-Band14-10MHz-64QAM-23330-1RB#0-5.00-10.00-PASS



NTNV-Band14-10MHz-64QAM-23330-1RB#0-10.00-25.00-PASS

NTNV-Band14-10MHz-64QAM-23330-50RB#0--25.00--10.00-PASS

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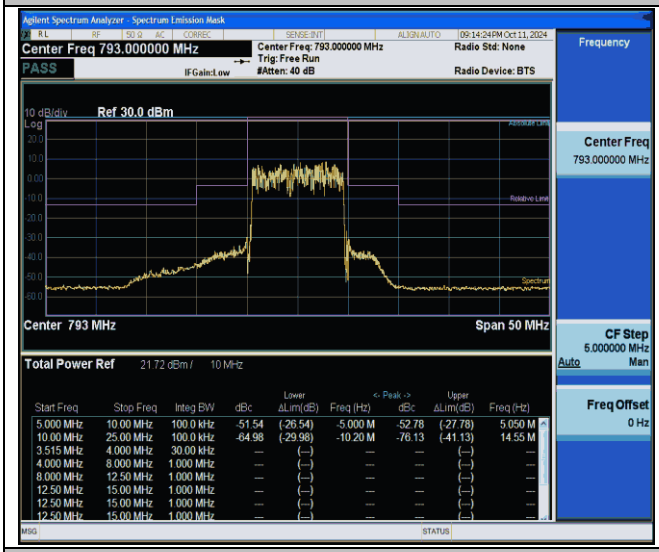
NTNV-Band14-10MHz-64QAM-23330-50RB#0--10.00--5.00-PASS

NTNV-Band14-10MHz-64QAM-23330-50RB#0--5.00-5.00-PASS



NTNV-Band14-10MHz-64QAM-23330-50RB#0-5.00-10.00-PASS

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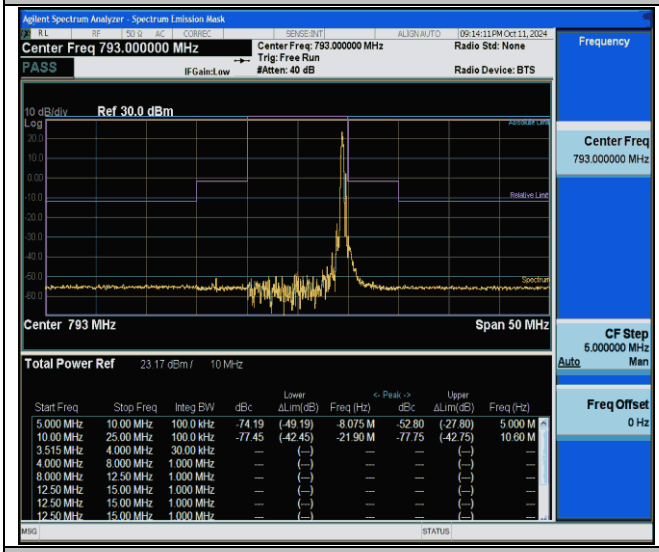

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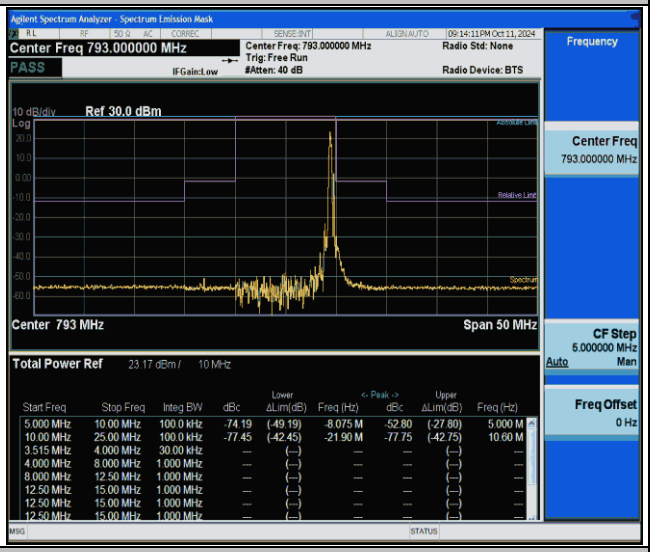

NTNV-Band14-10MHz-64QAM-23330-1RB#49--10.00--5.00-PASS

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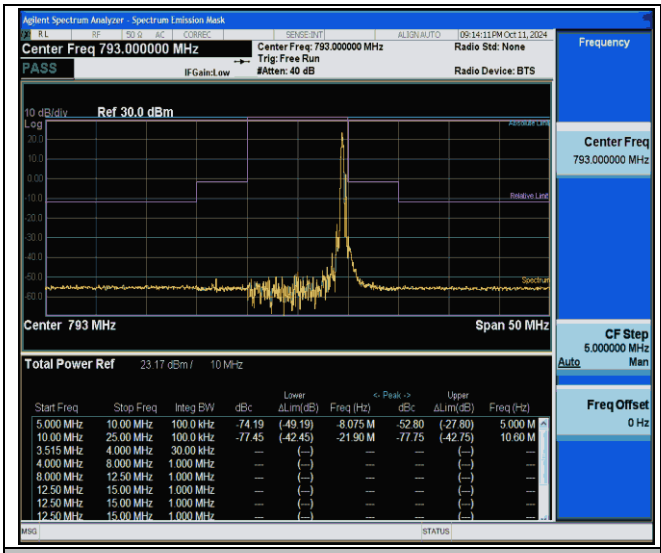
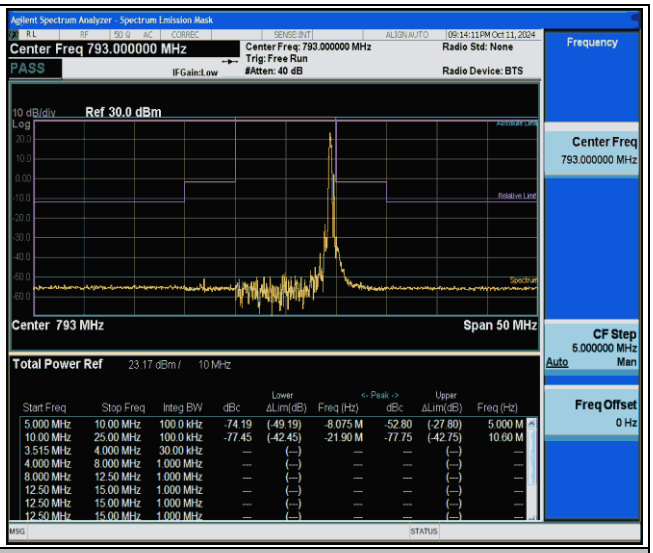


NTNV-Band14-10MHz-64QAM-23330-1RB#49--5.00-5.00-PASS



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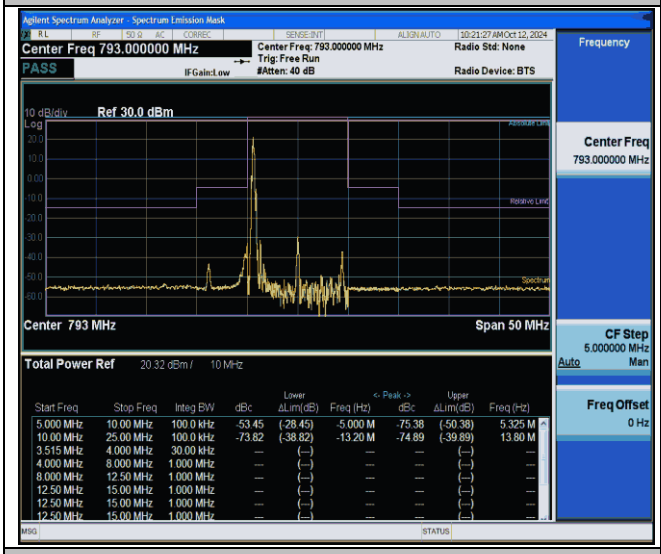
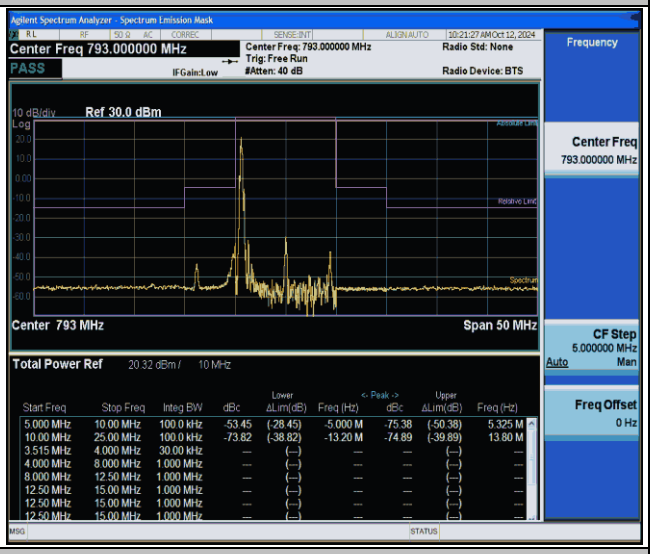


NTNV-Band14-10MHz-256QAM-23330-1RB#0--25.00--10.00-PASS



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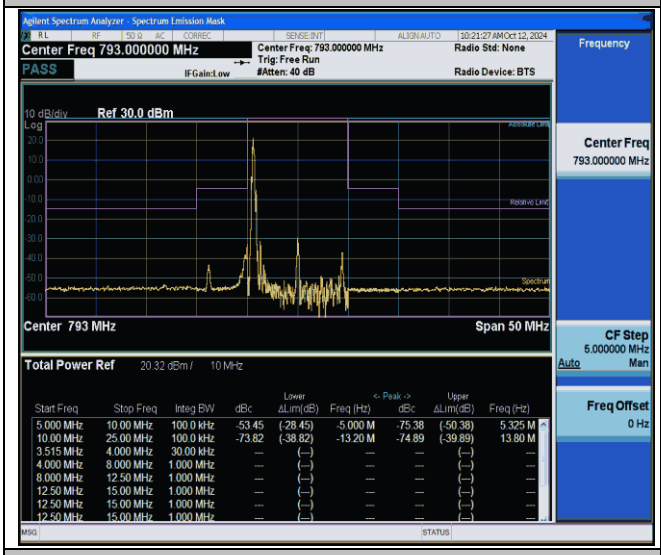

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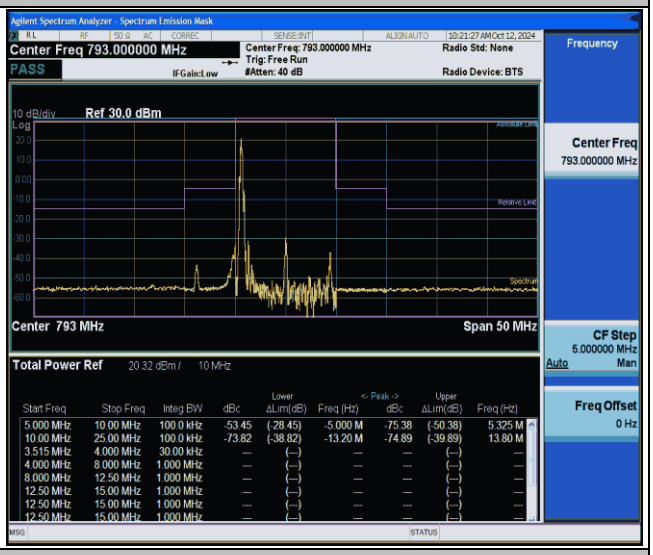

NTNV-Band14-10MHz-256QAM-23330-1RB#0-10.00-25.00-PASS

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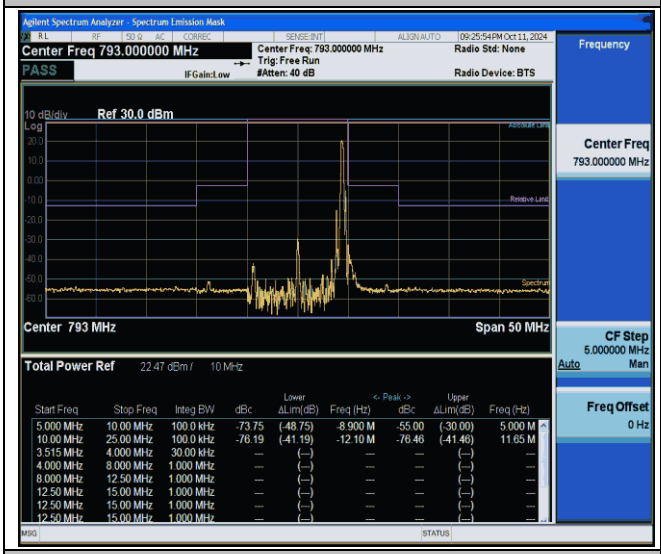
NTNV-Band14-10MHz-256QAM-23330-50RB#0--25.00--10.00-PASS

NTNV-Band14-10MHz-256QAM-23330-50RB#0--10.00--5.00-PASS

NTNV-Band14-10MHz-256QAM-23330-50RB#0-5.00-10.00-PASS

NTNV-Band14-10MHz-256QAM-23330-50RB#0-10.00-25.00-PASS



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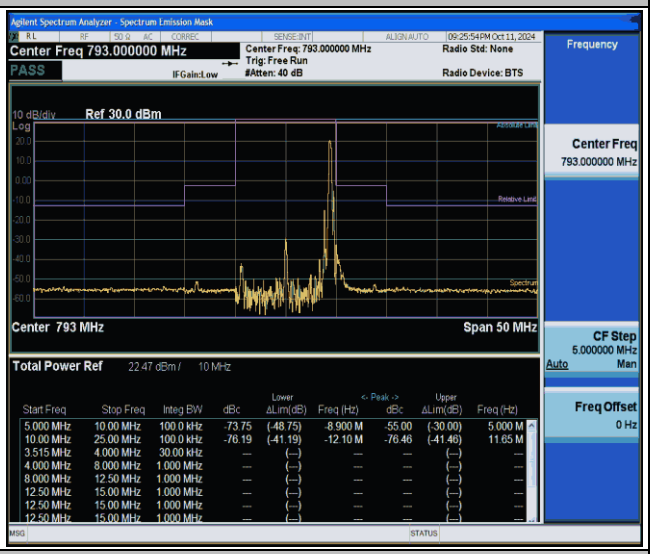

NTNV-Band14-10MHz-256QAM-23330-1RB#49--10.00--5.00-PASS

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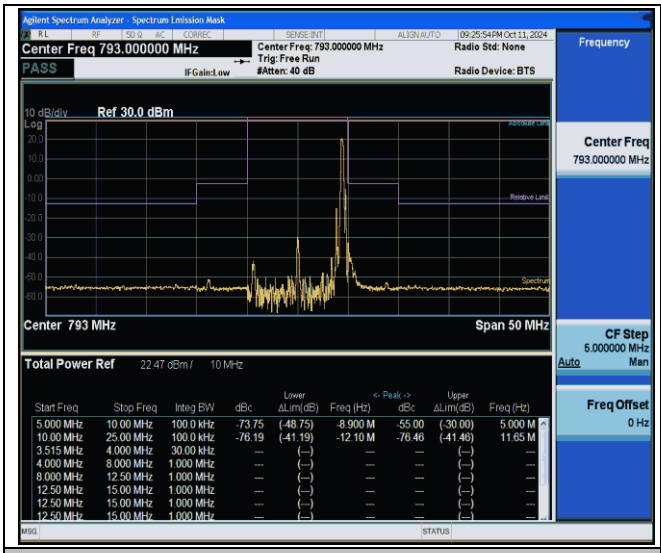
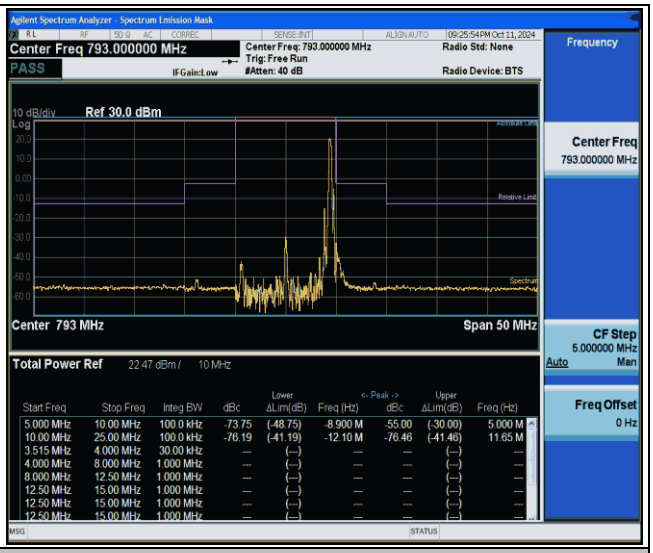


NTNV-Band14-10MHz-256QAM-23330-1RB#49--5.00-5.00-PASS



NTNV-Band14-10MHz-256QAM-23330-1RB#49-10.00-25.00-PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	4.79	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.78	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.27	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	6.66	13	PASS

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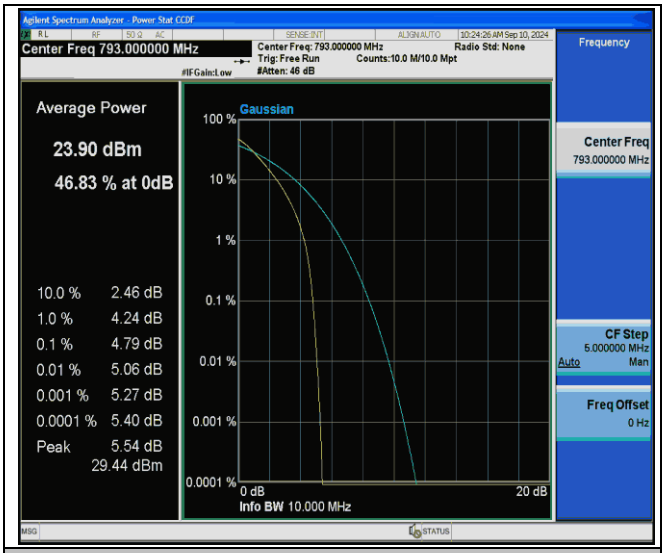
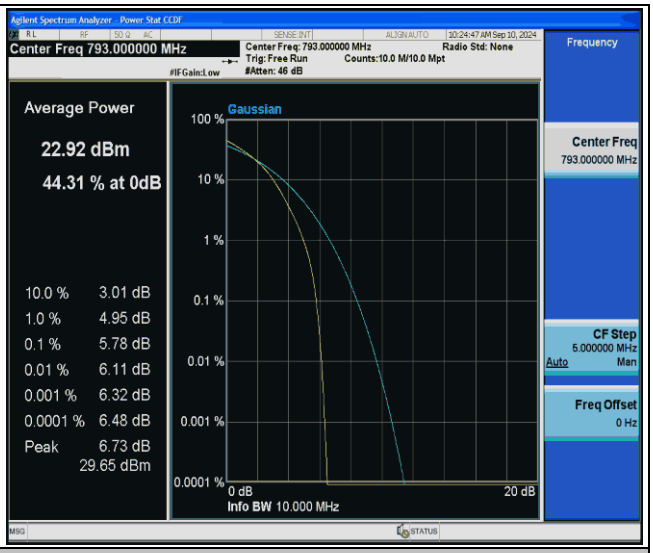
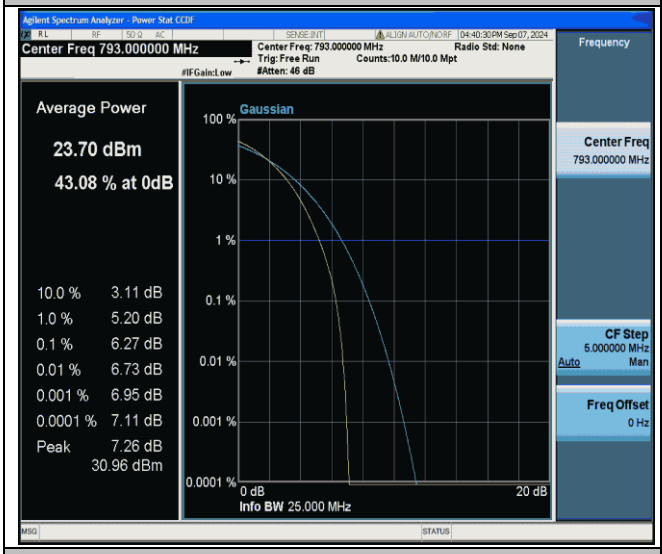
Test Graphs



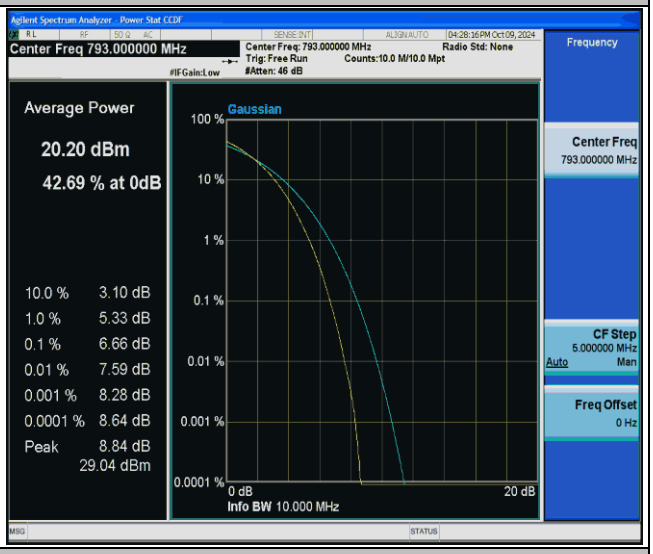
Band14-10MHz-QPSK-23330-50RB#0-PASS



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



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



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

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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	4.5210	5.142	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.5151	5.186	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.4939	5.095	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.5135	5.153	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.5007	5.176	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.4895	5.109	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.5326	5.130	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.5067	5.203	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.4864	5.108	PASS
Band14	5MHz	256QAM	23305	25RB#0	4.4068	4.694	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.5045	5.102	PASS
Band14	5MHz	256QAM	23355	25RB#0	4.4823	5.044	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.9824	10.04	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.9725	9.997	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.9743	10.00	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.8886	9.361	PASS

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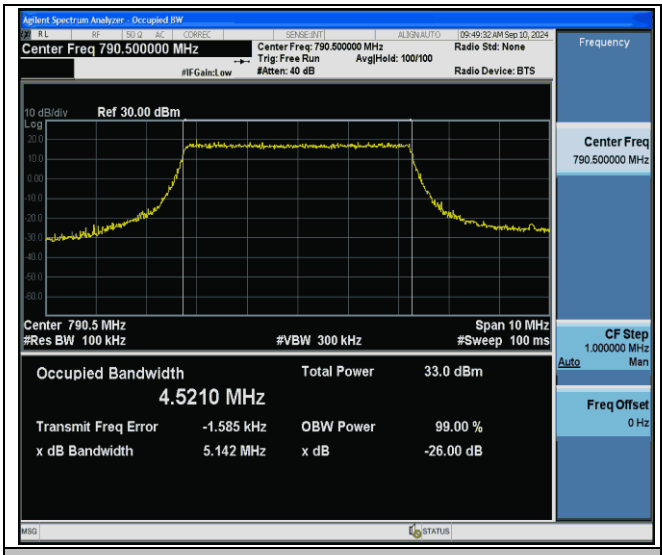
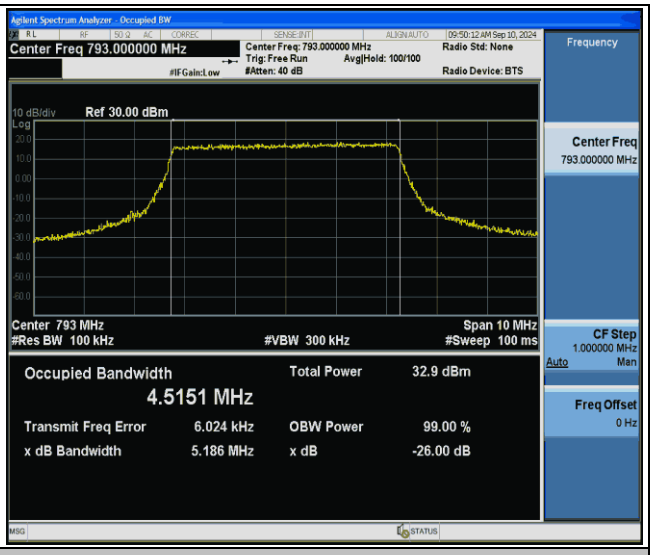
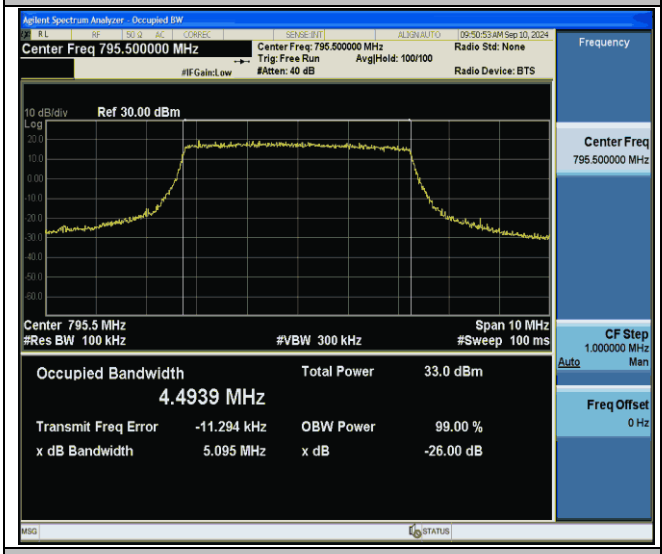
Test Graphs



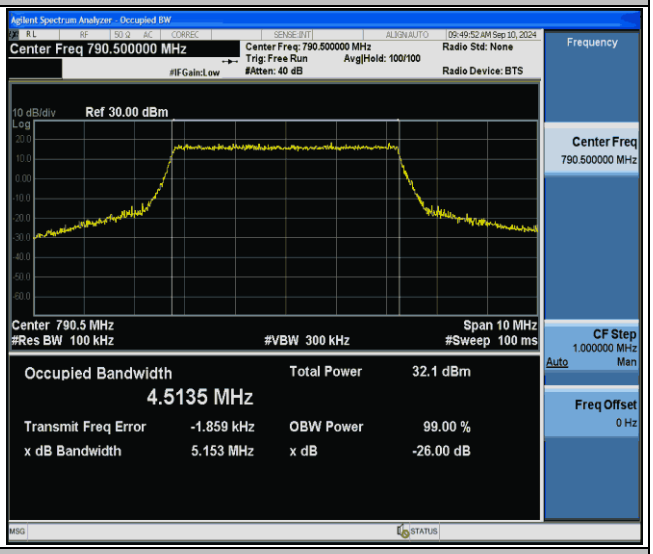
Band14-5MHz-QPSK-23305-25RB#0-PASS



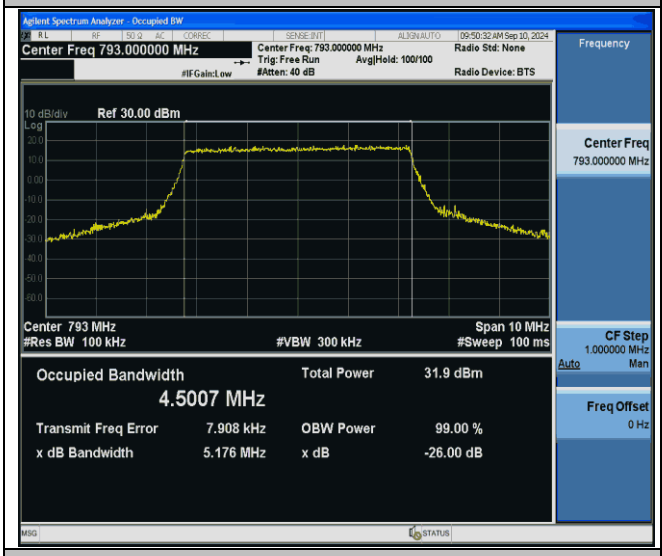
Band14-5MHz-QPSK-23330-25RB#0-PASS



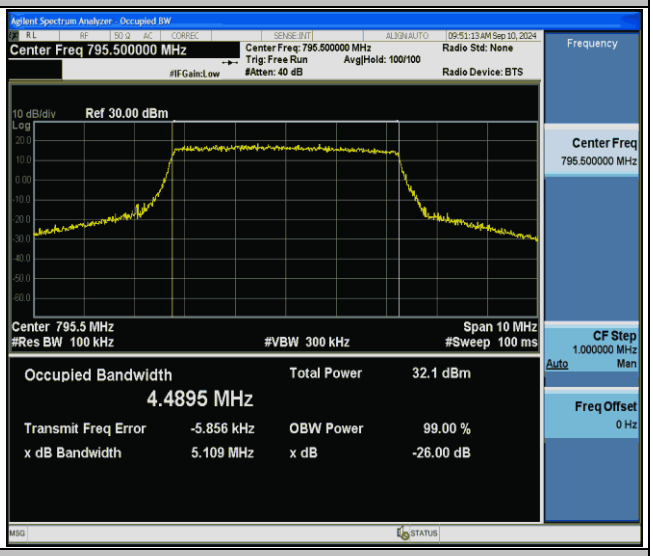
Band14-5MHz-QPSK-23355-25RB#0-PASS



Band14-5MHz-16QAM-23305-25RB#0-PASS



Band14-5MHz-16QAM-23330-25RB#0-PASS



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

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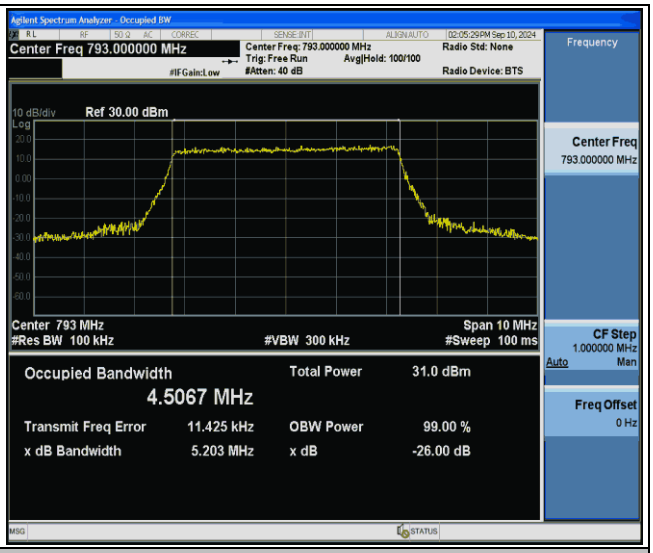
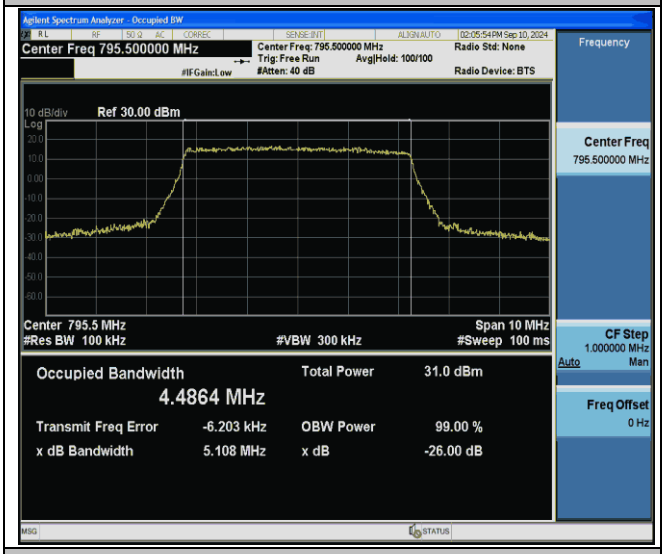
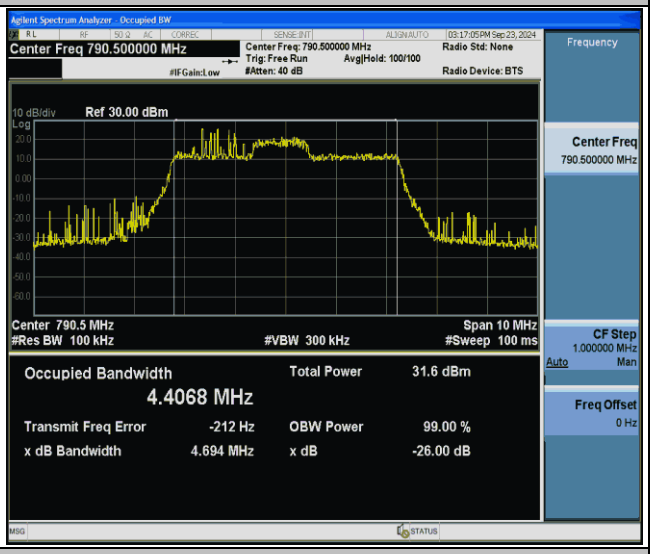
Band14-5MHz-64QAM-23305-25RB#0-PASS



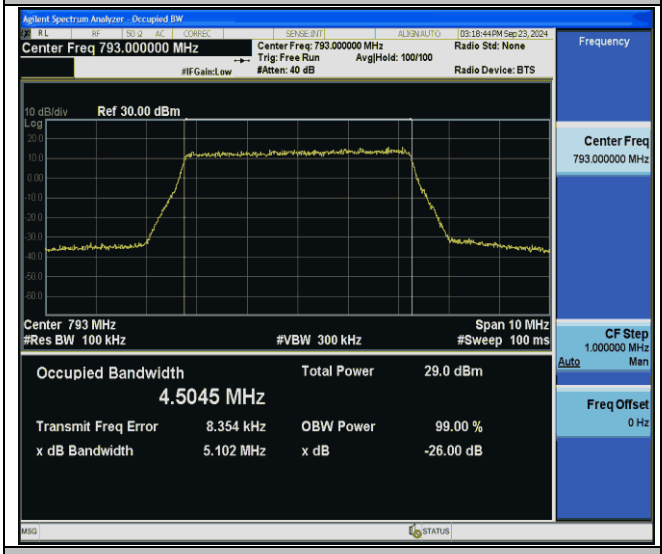
Band14-5MHz-64QAM-23330-25RB#0-PASS



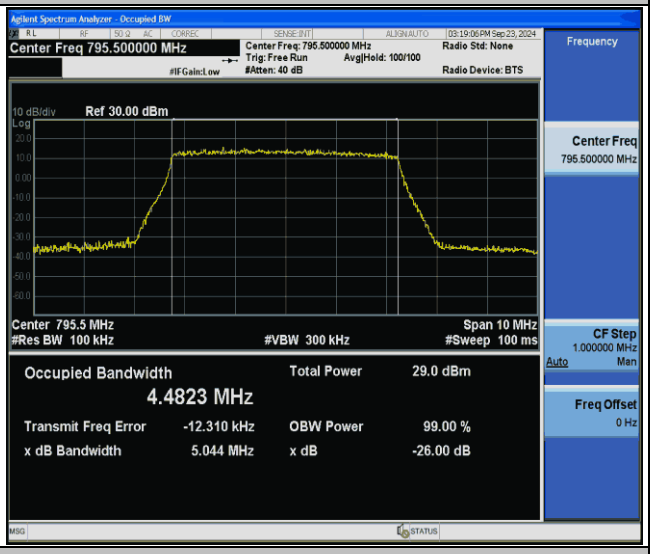
Band14-5MHz-64QAM-23355-25RB#0-PASS



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



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



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

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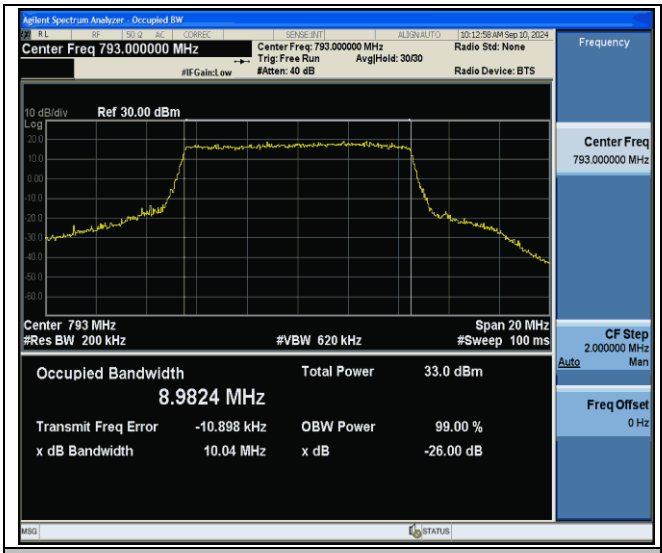

Band14-10MHz-QPSK-23330-50RB#0-PASS

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

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

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

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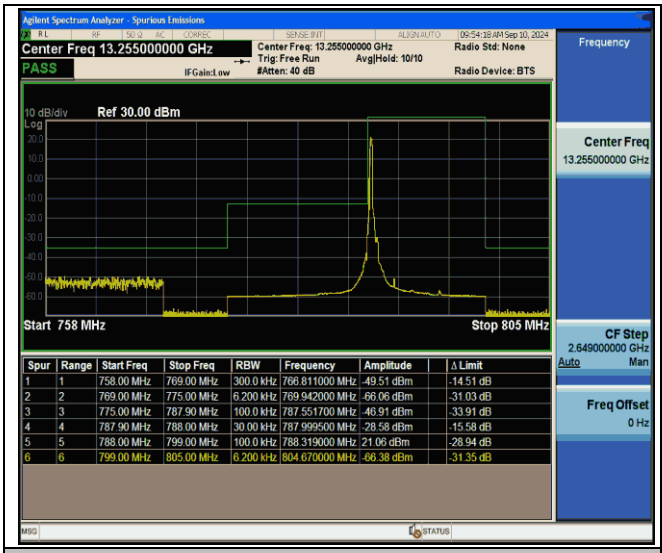
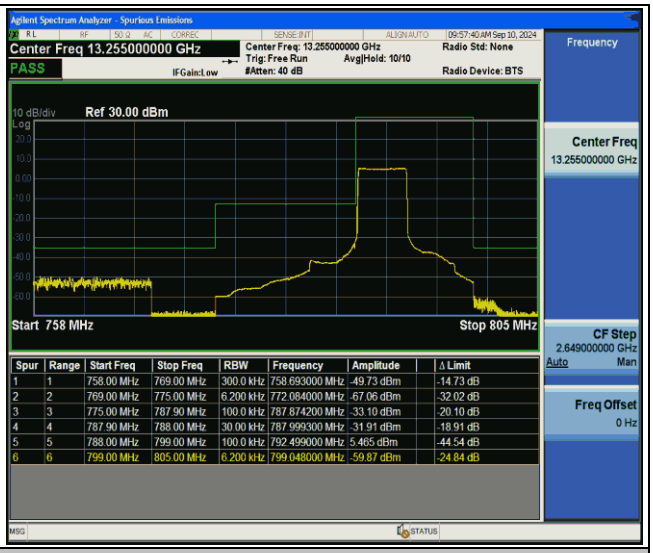
Band Edge

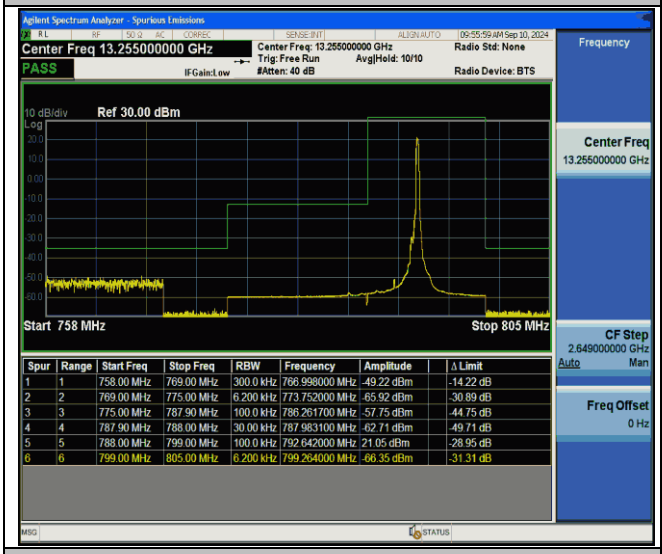
Test Graphs



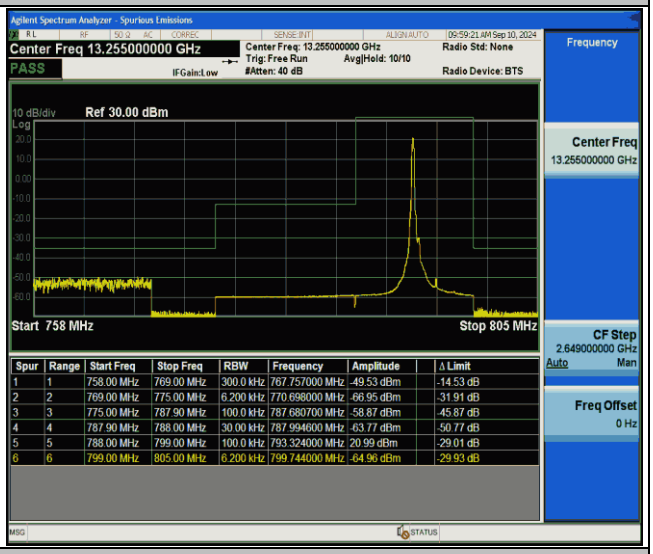
Band14-5MHz-QPSK-23305-1RB#0-PASS



Band14-5MHz-QPSK-23305-25RB#0-PASS

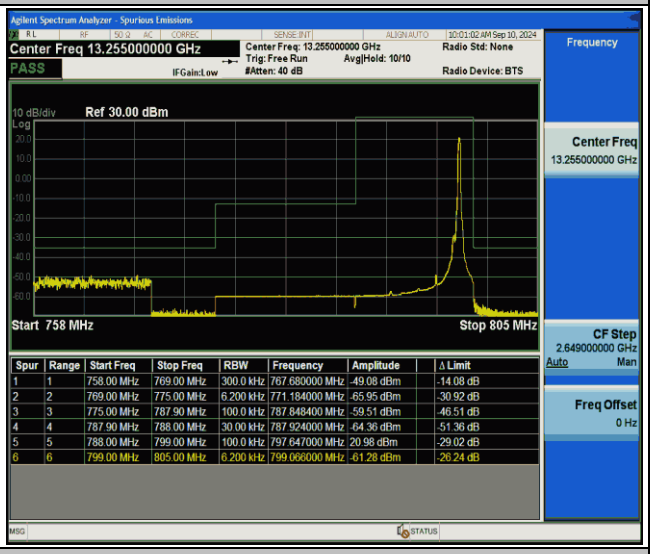


Band14-5MHz-QPSK-23305-1RB#24-PASS



Band14-5MHz-QPSK-23355-1RB#0-PASS

Band14-5MHz-QPSK-23355-25RB#0-PASS



Band14-5MHz-QPSK-23355-1RB#24-PASS

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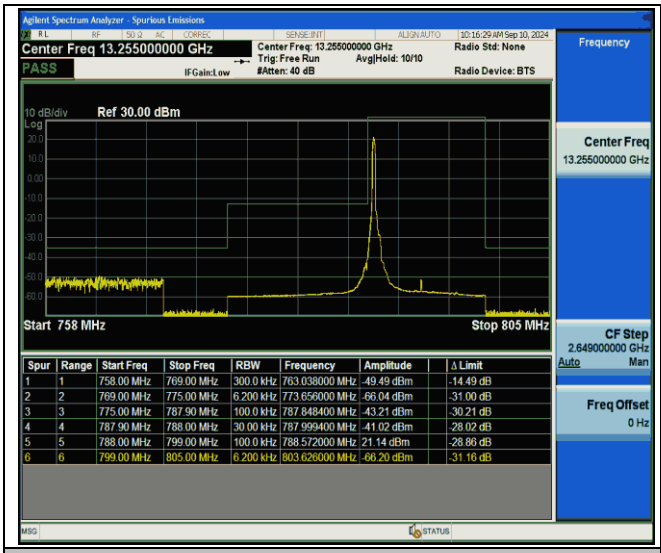
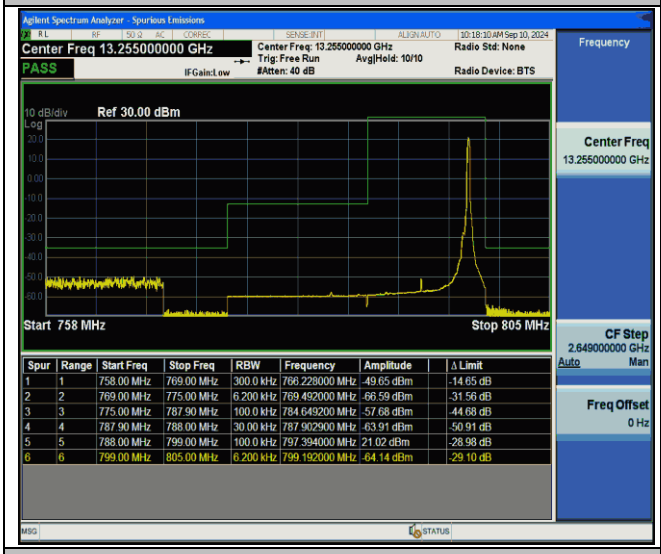


Band14-10MHz-QPSK-23330-1RB#0-PASS

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



Band14-10MHz-QPSK-23330-1RB#49-PASS

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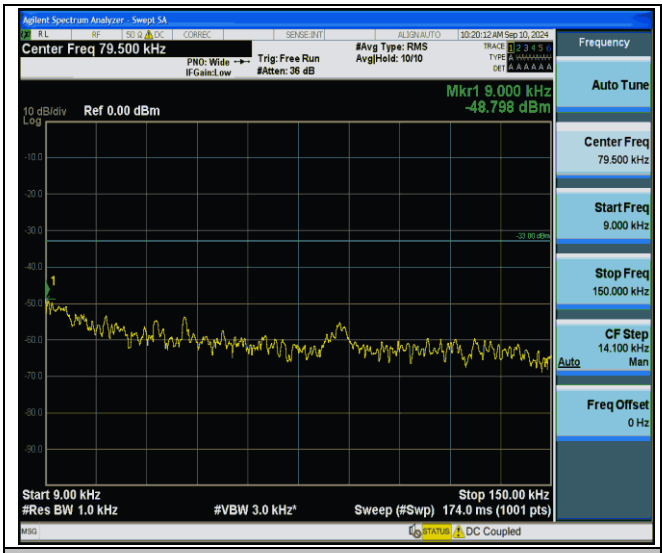
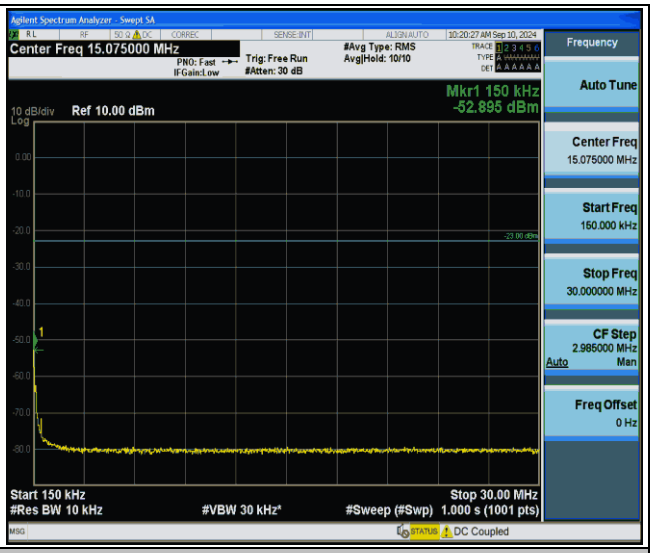
Conducted Spurious Emission

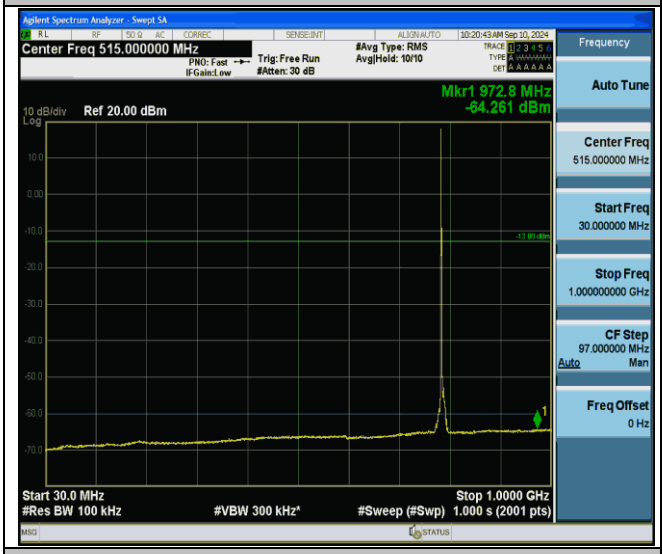
Test Graphs



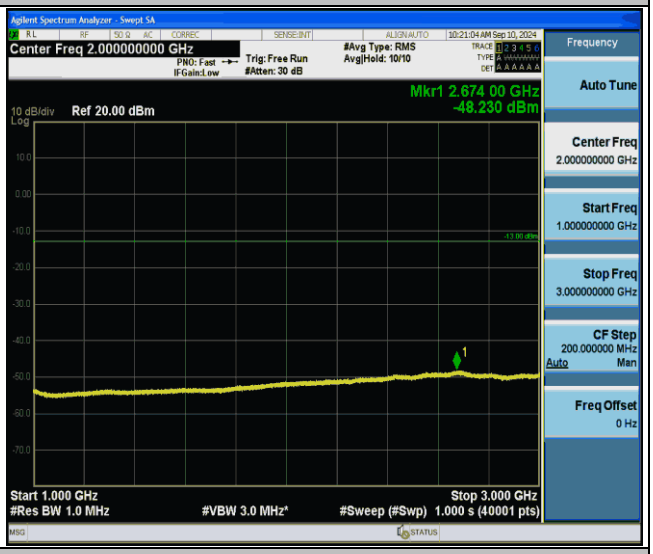
Band14-10MHz-QPSK-23330-1RB#0-0.009~0.15-PASS



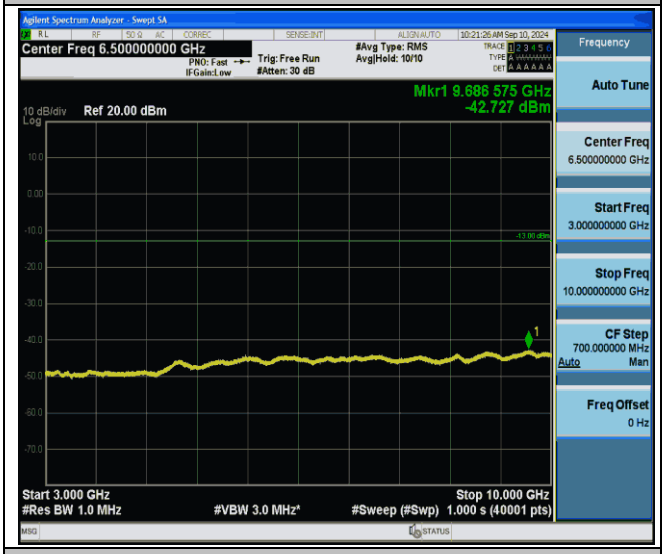
Band14-10MHz-QPSK-23330-1RB#0-0.15~30-PASS



Band14-10MHz-QPSK-23330-1RB#0-30~1000-PASS



Band14-10MHz-QPSK-23330-1RB#0-1000~3000-PASS



Band14-10MHz-QPSK-23330-1RB#0-3000~10000-PASS

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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	1.60	0.002018	PASS
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-0.60	-0.000757	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-0.40	-0.000504	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	0.30	0.000378	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-0.20	-0.000252	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	1.80	0.002270	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	0.30	0.000378	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	0.90	0.001135	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	1.40	0.001765	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	0.20	0.000252	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	1.00	0.001261	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-0.40	-0.000504	PASS

~The End~

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