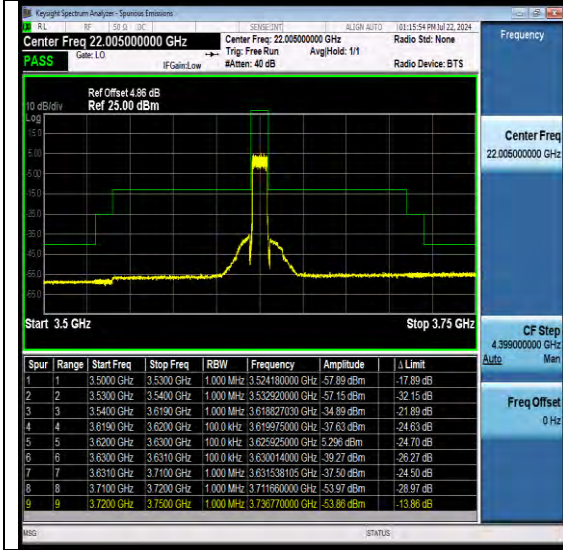




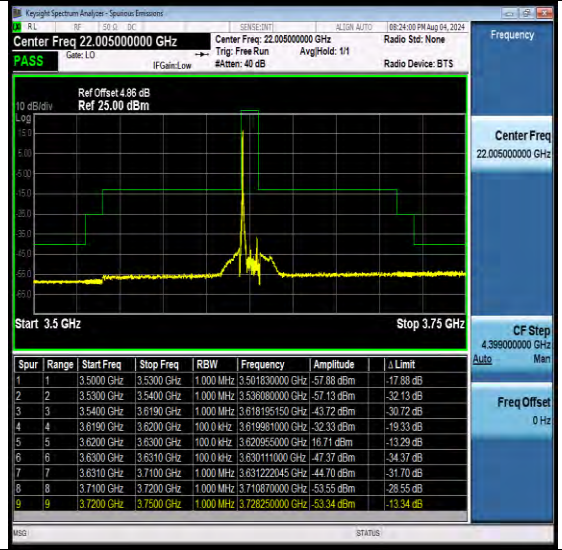
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Test Report No.: W7L-240618W002RF13

NTNV-N48-PC3-30-10-L-DFT-QPSK-Edge\_1RB\_Left-Ant1-PASS



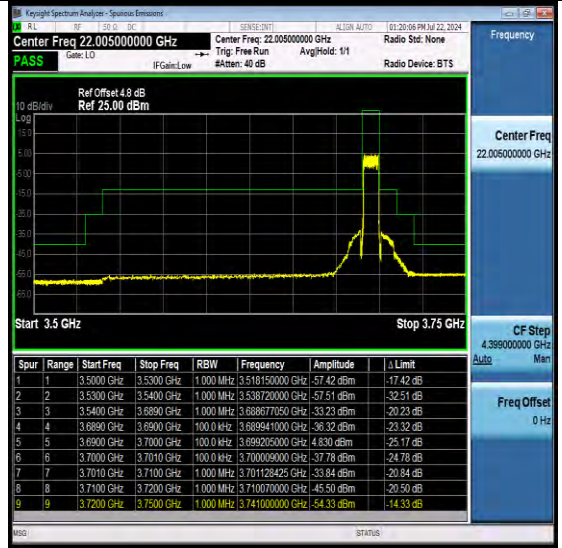
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NTNV-N48-PC3-30-10-M-DFT-QPSK-Edge\_1RB\_Left-Ant1-PASS



NTNV-N48-PC3-30-10-M-DFT-QPSK-Edge\_1RB\_Right-Ant1-PASS

NTNV-N48-PC3-30-10-H-DFT-QPSK-Outer\_Full-Ant1-PASS

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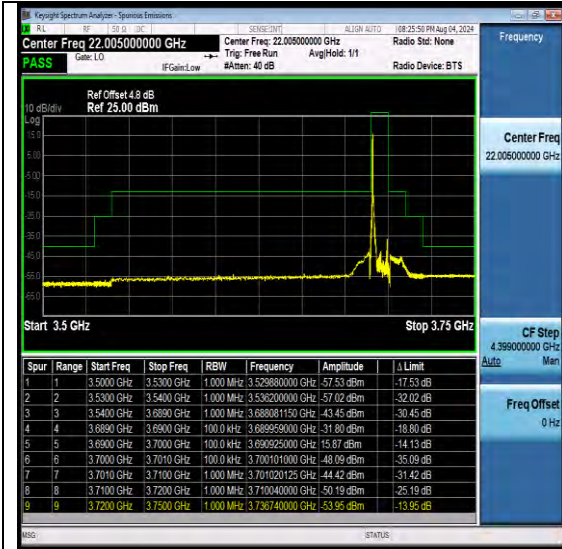
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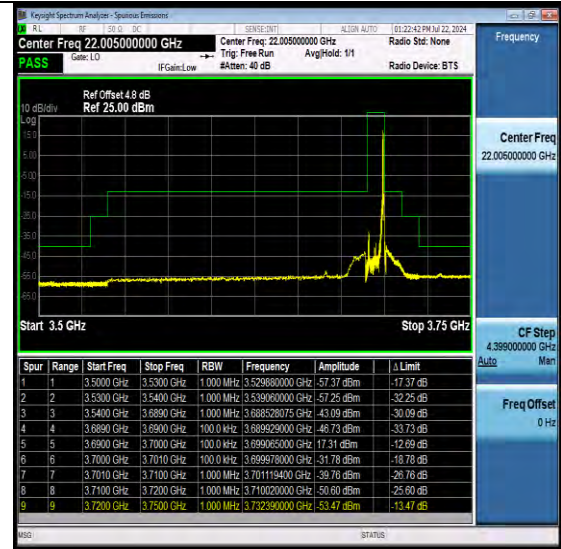


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Test Report No.: W7L-240618W02RF13



NTNV-N48-PC3-30-10-H-DFT-QPSK-Edge\_1RB\_ Left-Ant1-PASS



NTNV-N48-PC3-30-10-H-DFT-QPSK-Edge\_1RB\_ Right-Ant1-PASS

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### CONDUCTED SPURIOUS EMISSION FOR SA TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N48	30	30	DFT-QPSK	L	Edge 1RB Left	30	1000	-48.27	-40	PASS
N48	30	30	DFT-QPSK	L	Edge 1RB Left	1000	10000	-48.05	-40	PASS
N48	30	30	DFT-QPSK	L	Edge 1RB Left	10000	20000	-55.96	-40	PASS
N48	30	30	DFT-QPSK	L	Edge 1RB Left	20000	40000	-55.23	-40	PASS
N48	30	30	DFT-QPSK	M	Edge 1RB Left	30	1000	-48.03	-40	PASS
N48	30	30	DFT-QPSK	M	Edge 1RB Left	1000	10000	-48.15	-40	PASS
N48	30	30	DFT-QPSK	M	Edge 1RB Left	10000	20000	-55.78	-40	PASS
N48	30	30	DFT-QPSK	M	Edge 1RB Left	20000	40000	-54.94	-40	PASS
N48	30	30	DFT-QPSK	H	Edge 1RB Left	30	1000	-47.90	-40	PASS
N48	30	30	DFT-QPSK	H	Edge 1RB Left	1000	10000	-47.61	-40	PASS
N48	30	30	DFT-QPSK	H	Edge 1RB Left	10000	20000	-55.83	-40	PASS
N48	30	30	DFT-QPSK	H	Edge 1RB Left	20000	40000	-55.23	-40	PASS
N48	30	60	DFT-QPSK	L	Edge 1RB Left	30	1000	-48.08	-40	PASS
N48	30	60	DFT-QPSK	L	Edge 1RB Left	1000	10000	-47.34	-40	PASS
N48	30	60	DFT-QPSK	L	Edge 1RB Left	10000	20000	-55.70	-40	PASS
N48	30	60	DFT-QPSK	L	Edge 1RB Left	20000	40000	-55.01	-40	PASS
N48	30	60	DFT-QPSK	M	Edge 1RB Left	30	1000	-48.21	-40	PASS
N48	30	60	DFT-QPSK	M	Edge 1RB Left	1000	10000	-48.13	-40	PASS
N48	30	60	DFT-QPSK	M	Edge 1RB Left	10000	20000	-56.03	-40	PASS
N48	30	60	DFT-QPSK	M	Edge 1RB Left	20000	40000	-55.29	-40	PASS
N48	30	60	DFT-QPSK	H	Edge 1RB Left	30	1000	-48.10	-40	PASS
N48	30	60	DFT-QPSK	H	Edge 1RB Left	1000	10000	-48.41	-40	PASS
N48	30	60	DFT-QPSK	H	Edge 1RB Left	10000	20000	-56.09	-40	PASS
N48	30	60	DFT-QPSK	H	Edge 1RB Left	20000	40000	-55.08	-40	PASS
N48	30	100	DFT-QPSK	L	Edge 1RB Left	30	1000	-48.25	-40	PASS
N48	30	100	DFT-QPSK	L	Edge 1RB Left	1000	10000	-46.36	-40	PASS
N48	30	100	DFT-QPSK	L	Edge 1RB Left	10000	20000	-55.95	-40	PASS
N48	30	100	DFT-QPSK	L	Edge 1RB Left	20000	40000	-55.25	-40	PASS
N48	30	100	DFT-QPSK	M	Edge 1RB Left	30	1000	-48.10	-40	PASS
N48	30	100	DFT-QPSK	M	Edge 1RB Left	1000	10000	-48.45	-40	PASS
N48	30	100	DFT-QPSK	M	Edge 1RB Left	10000	20000	-56.12	-40	PASS
N48	30	100	DFT-QPSK	M	Edge 1RB Left	20000	40000	-55.27	-40	PASS
N48	30	100	DFT-QPSK	H	Edge 1RB Left	30	1000	-48.05	-40	PASS
N48	30	100	DFT-QPSK	H	Edge 1RB Left	1000	10000	-48.44	-40	PASS
N48	30	100	DFT-QPSK	H	Edge 1RB Left	10000	20000	-56.27	-40	PASS
N48	30	100	DFT-QPSK	H	Edge 1RB Left	20000	40000	-54.71	-40	PASS
N48	30	10	DFT-QPSK	L	Edge 1RB Left	30	1000	-48.71	-40	PASS
N48	30	10	DFT-QPSK	L	Edge 1RB Left	1000	10000	-49.56	-40	PASS
N48	30	10	DFT-QPSK	L	Edge 1RB Left	10000	20000	-57.27	-40	PASS
N48	30	10	DFT-QPSK	L	Edge 1RB Left	20000	40000	-56.59	-40	PASS
N48	30	10	DFT-QPSK	M	Edge 1RB Left	30	1000	-48.47	-40	PASS
N48	30	10	DFT-QPSK	M	Edge 1RB Left	1000	10000	-48.62	-40	PASS
N48	30	10	DFT-QPSK	M	Edge 1RB Left	10000	20000	-56.79	-40	PASS



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N48	30	10	DFT-QPSK	M	Edge 1RB Left	20000	40000	-56.21	-40	PASS
N48	30	10	DFT-QPSK	H	Edge 1RB Left	30	1000	-48.25	-40	PASS
N48	30	10	DFT-QPSK	H	Edge 1RB Left	1000	10000	-48.22	-40	PASS
N48	30	10	DFT-QPSK	H	Edge 1RB Left	10000	20000	-56.61	-40	PASS
N48	30	10	DFT-QPSK	H	Edge 1RB Left	20000	40000	-55.96	-40	PASS





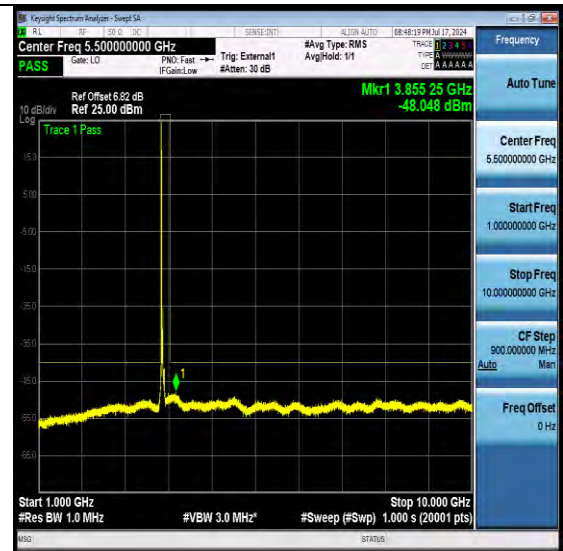
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Test Report No.: W7L-240618W002RF13

### TEST GRAPHS



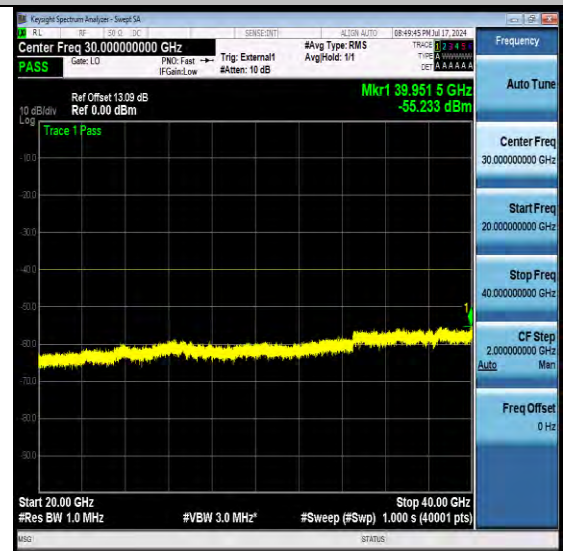
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NTNV-N48-PC3-30-30-L-DFT-QPSK-Edge\_1RB\_ Left-Ant1-PASS



NTNV-N48-PC3-30-30-L-DFT-QPSK-Edge\_1RB\_ Left-Ant1-PASS

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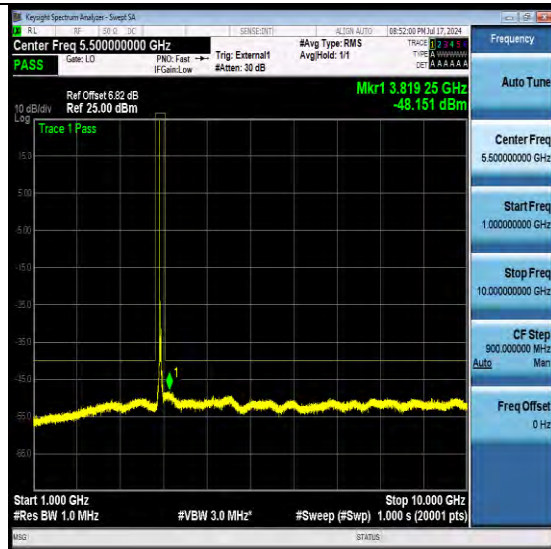


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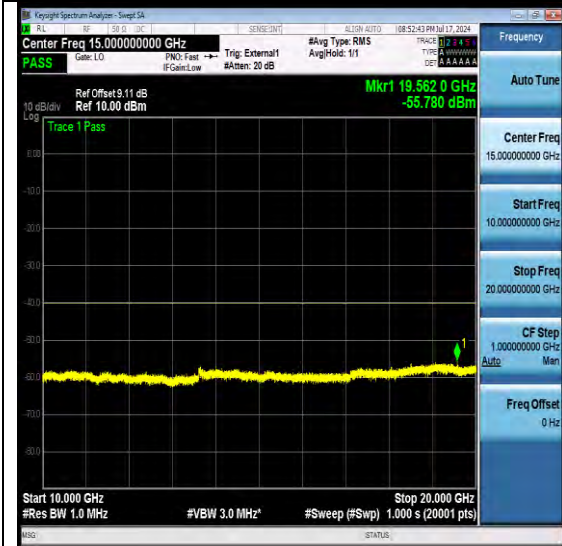
Test Report No.: W7L-240618W02RF13



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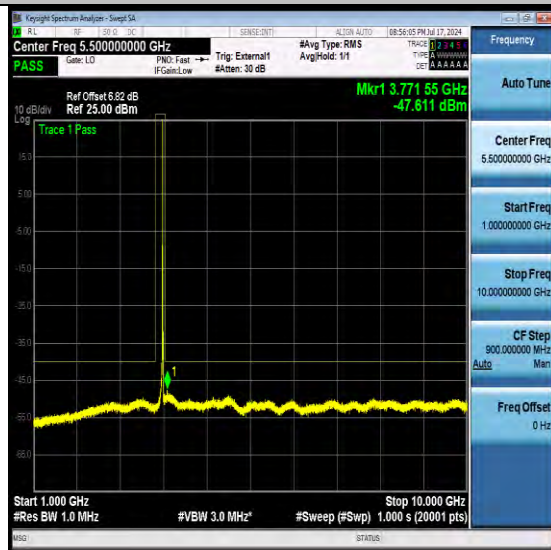
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NTNV-N48-PC3-30-30-M-DFT-QPSK-Edge\_1RB\_Lf-Ant1-PASS



NTNV-N48-PC3-30-30-M-DFT-QPSK-Edge\_1RB\_Lf-Ant1-PASS

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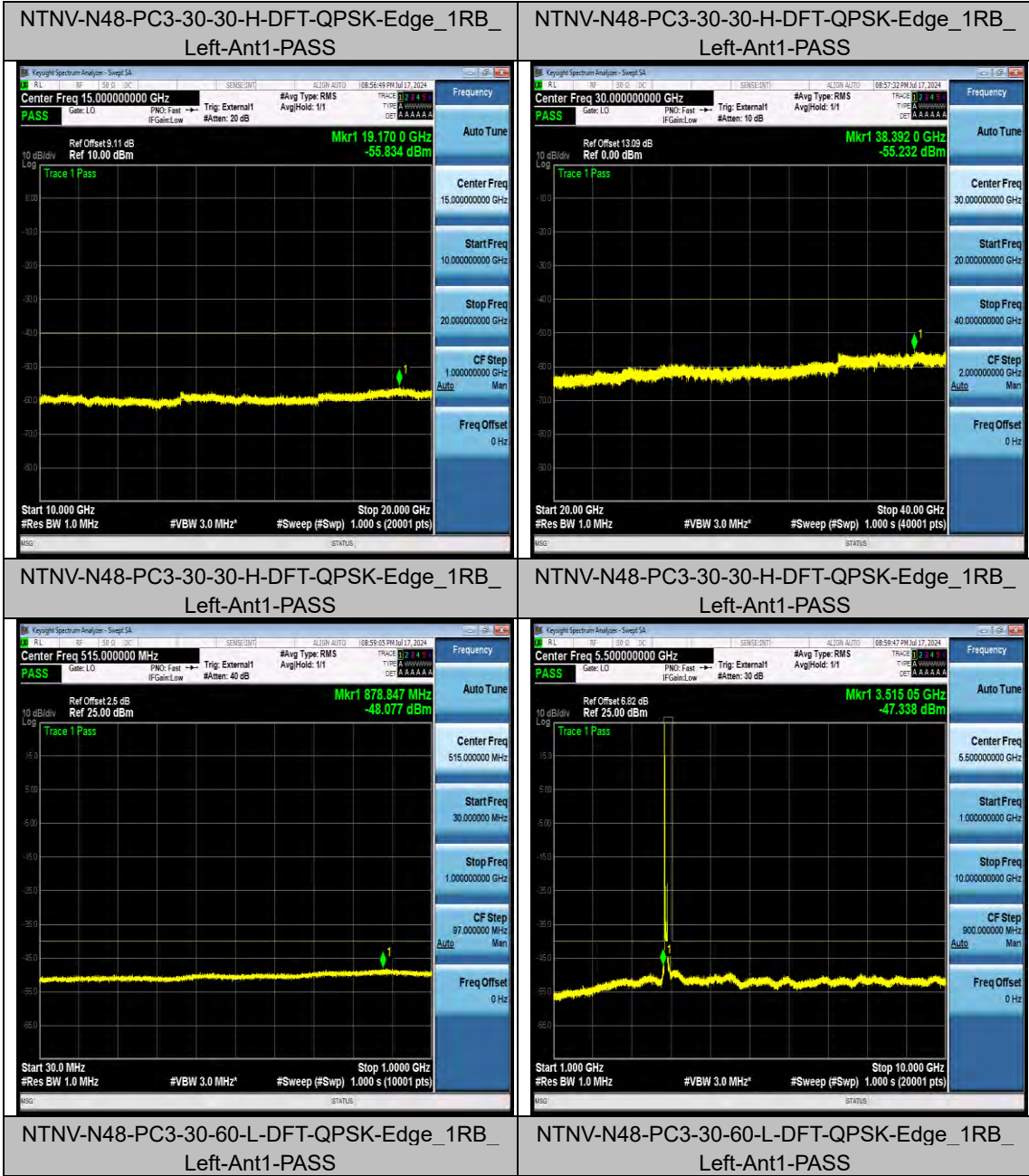
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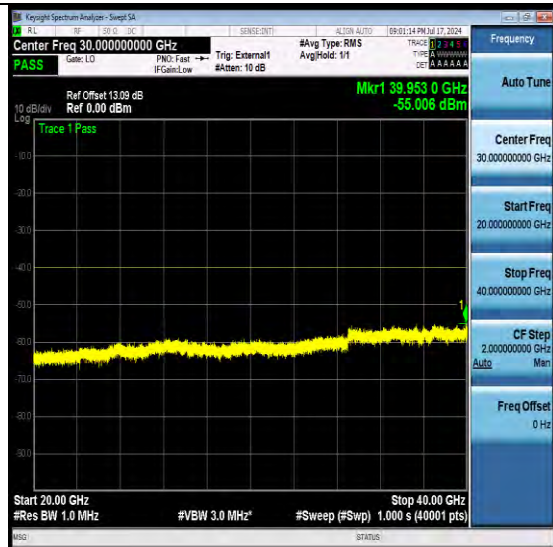


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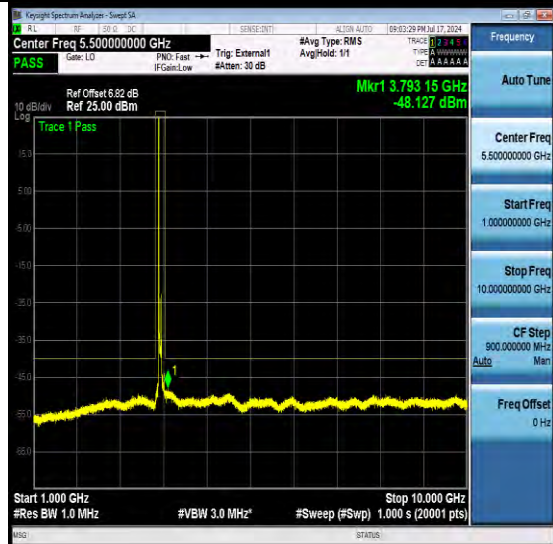
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NTNV-N48-PC3-30-60-M-DFT-QPSK-Edge\_1RB\_L-Left-Ant1-PASS



NTNV-N48-PC3-30-60-M-DFT-QPSK-Edge\_1RB\_L-Left-Ant1-PASS



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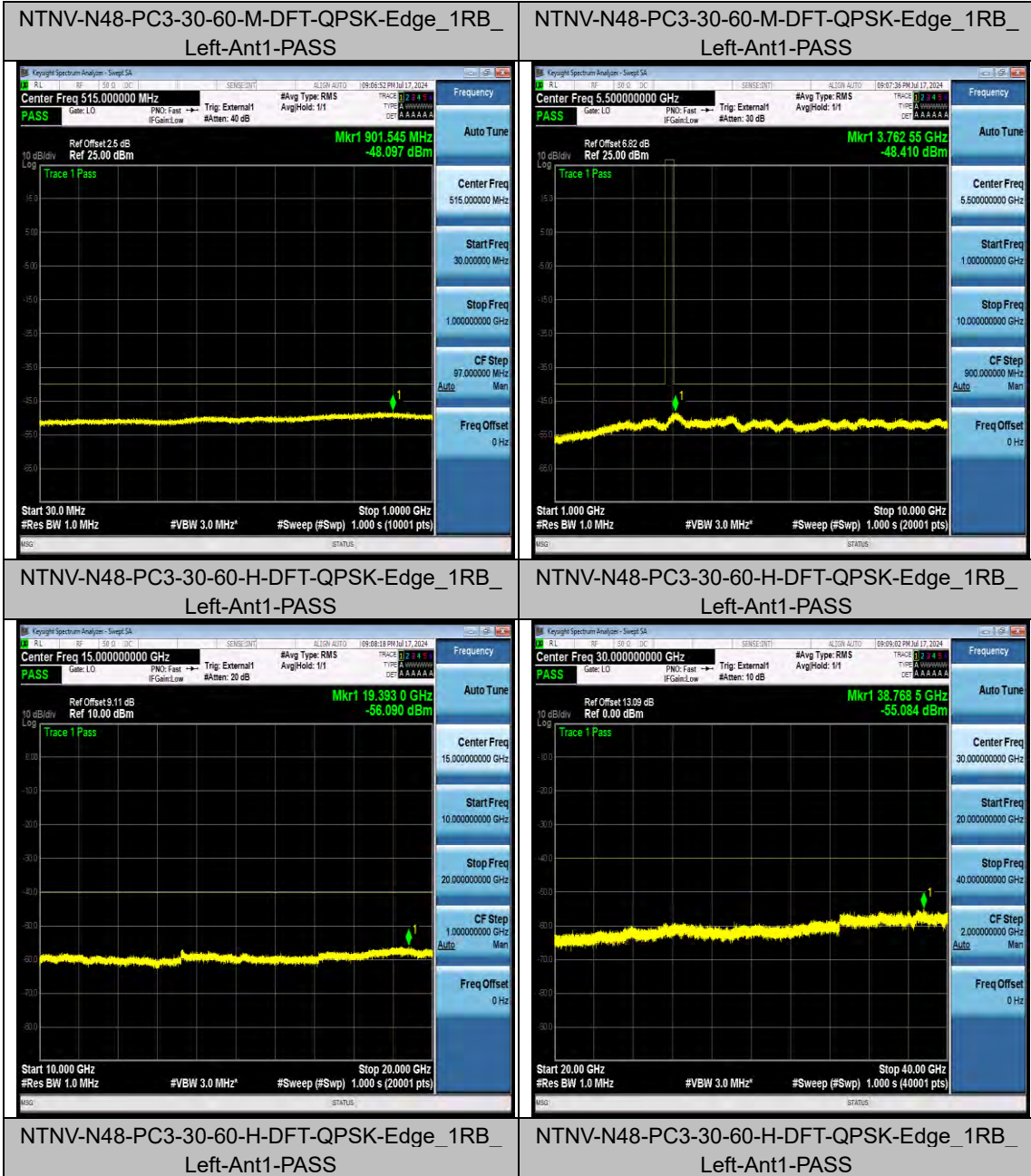
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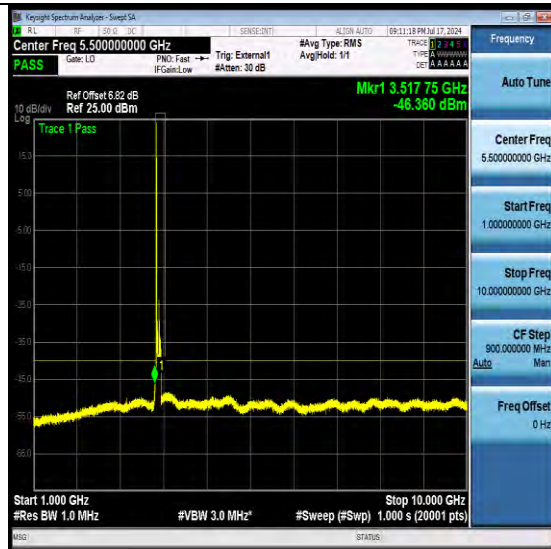


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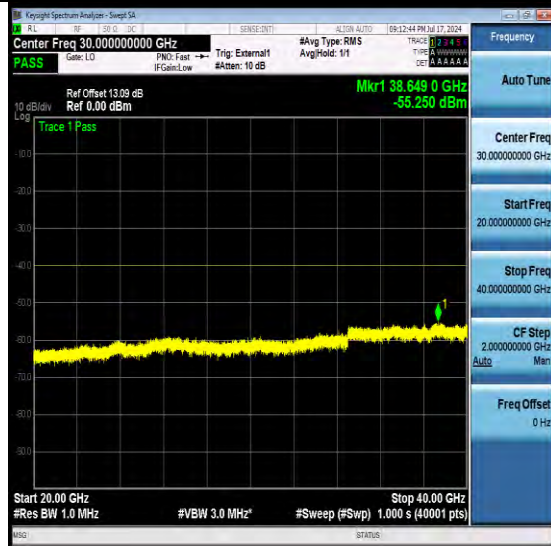
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Left-Ant1-PASS



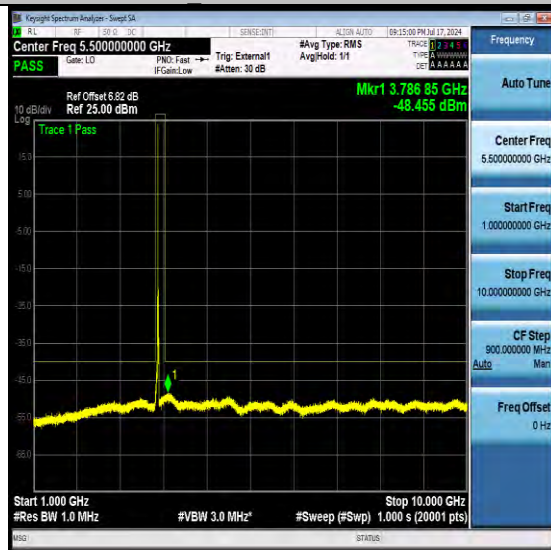
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Left-Ant1-PASS



NTNV-N48-PC3-30-100-L-DFT-QPSK-Edge\_1RB  
Left-Ant1-PASS



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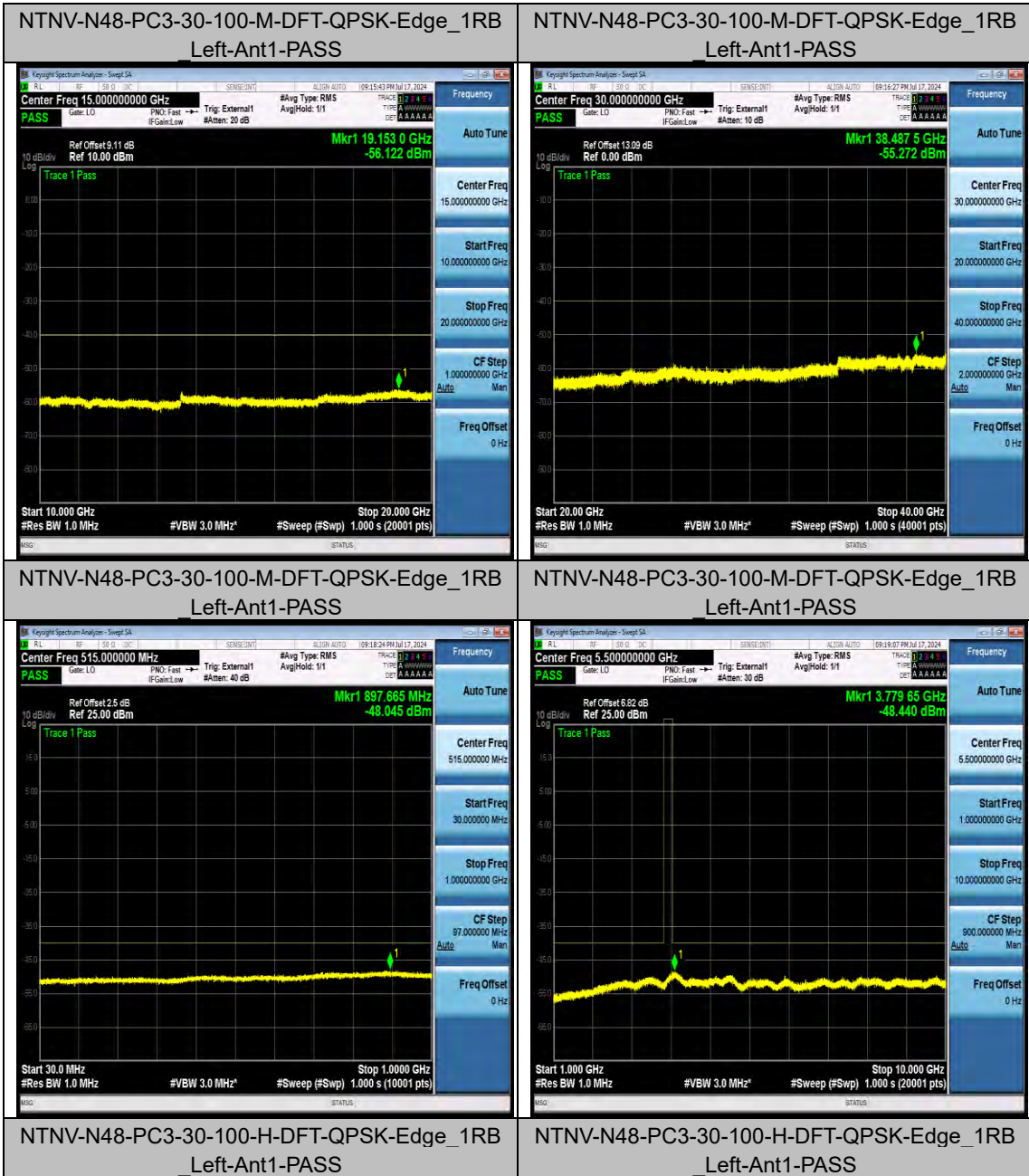
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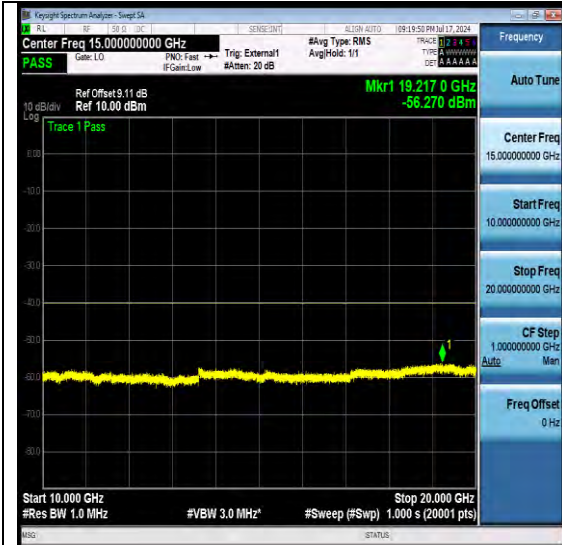
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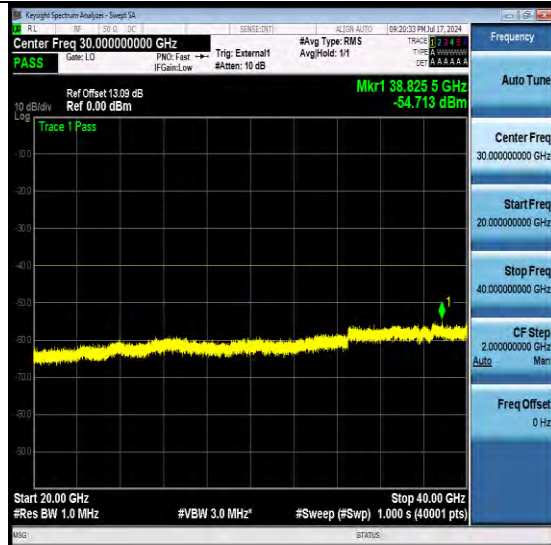


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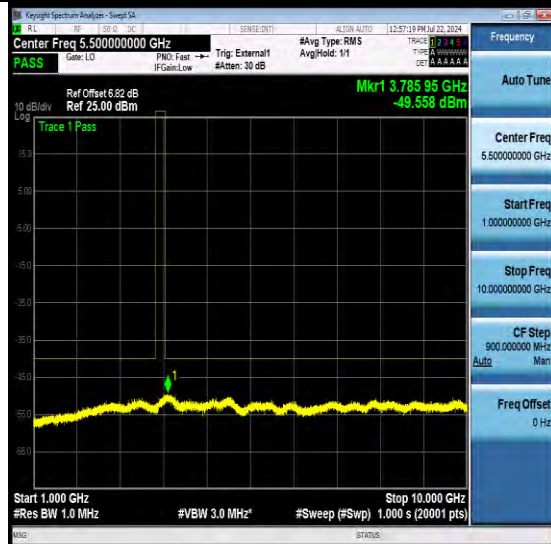
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NTNV-N48-PC3-30-10-L-DFT-QPSK-Edge\_1RB Left-Ant1-PASS



NTNV-N48-PC3-30-10-L-DFT-QPSK-Edge\_1RB Left-Ant1-PASS



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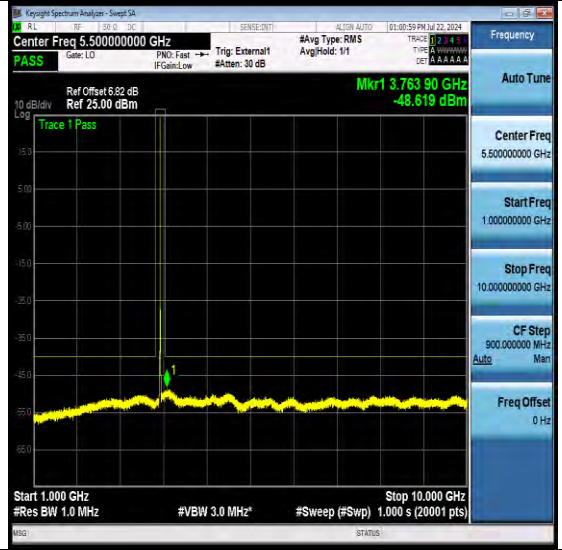
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Test Report No.: W7L-240618W002RF13

NTNV-N48-PC3-30-10-L-DFT-QPSK-Edge\_1RB\_ Left-Ant1-PASS



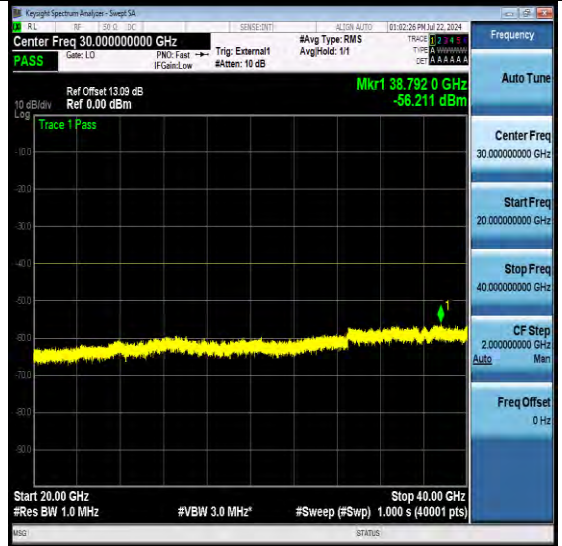
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NTNV-N48-PC3-30-10-M-DFT-QPSK-Edge\_1RB\_ Left-Ant1-PASS

NTNV-N48-PC3-30-10-M-DFT-QPSK-Edge\_1RB\_ Left-Ant1-PASS

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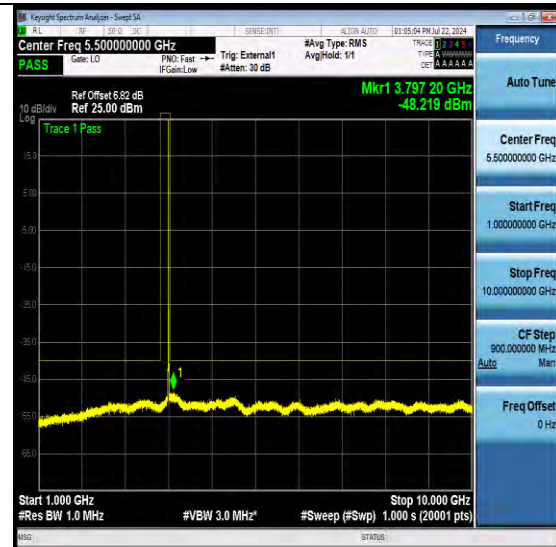


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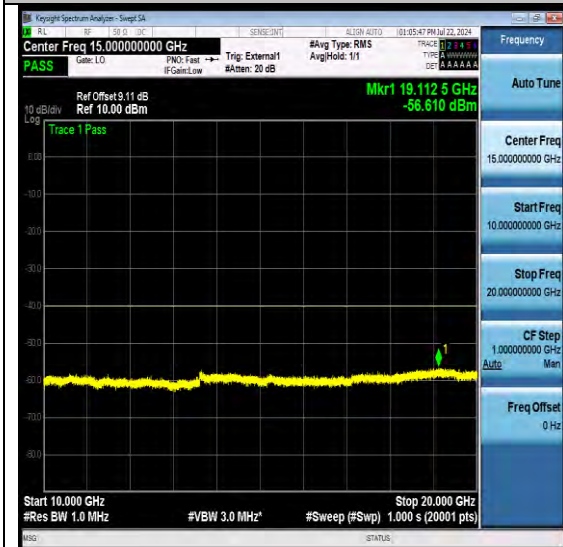
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NTNV-N48-PC3-30-10-H-DFT-QPSK-Edge\_1RB\_  
Left-Ant1-PASS



NTNV-N48-PC3-30-10-H-DFT-QPSK-Edge\_1RB\_  
Left-Ant1-PASS



NTNV-N48-PC3-30-10-H-DFT-QPSK-Edge\_1RB\_  
Left-Ant1-PASS



NTNV-N48-PC3-30-10-H-DFT-QPSK-Edge\_1RB\_  
Left-Ant1-PASS

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# FREQUENCY STABILITY FOR SA TEST RESULT

## Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	30	100	DFT-QPSK	L	Outer Full	VL	NT	2.000000	0.000556	PASS
N48	30	100	DFT-QPSK	L	Outer Full	VN	NT	16.000000	0.004444	PASS
N48	30	100	DFT-QPSK	L	Outer Full	VH	NT	18.000000	0.005000	PASS
N48	30	100	DFT-QPSK	L	Outer Full	NV	-30	18.000000	0.005000	PASS
N48	30	100	DFT-QPSK	L	Outer Full	NV	-20	4.000000	0.001111	PASS
N48	30	100	DFT-QPSK	L	Outer Full	NV	-10	8.000000	0.002222	PASS
N48	30	100	DFT-QPSK	L	Outer Full	NV	0	10.000000	0.002778	PASS
N48	30	100	DFT-QPSK	L	Outer Full	NV	10	19.000000	0.005278	PASS
N48	30	100	DFT-QPSK	L	Outer Full	NV	20	16.000000	0.004444	PASS
N48	30	100	DFT-QPSK	L	Outer Full	NV	30	17.000000	0.004722	PASS
N48	30	100	DFT-QPSK	L	Outer Full	NV	40	10.000000	0.002778	PASS
N48	30	100	DFT-QPSK	L	Outer Full	NV	50	8.000000	0.002222	PASS
N48	30	100	DFT-QPSK	M	Outer Full	VL	NT	16.000000	0.004414	PASS
N48	30	100	DFT-QPSK	M	Outer Full	VN	NT	7.000000	0.001931	PASS
N48	30	100	DFT-QPSK	M	Outer Full	VH	NT	19.000000	0.005241	PASS
N48	30	100	DFT-QPSK	M	Outer Full	NV	-30	9.000000	0.002483	PASS
N48	30	100	DFT-QPSK	M	Outer Full	NV	-20	14.000000	0.003862	PASS
N48	30	100	DFT-QPSK	M	Outer Full	NV	-10	18.000000	0.004966	PASS
N48	30	100	DFT-QPSK	M	Outer Full	NV	0	1.000000	0.000276	PASS
N48	30	100	DFT-QPSK	M	Outer Full	NV	10	18.000000	0.004966	PASS
N48	30	100	DFT-QPSK	M	Outer Full	NV	20	18.000000	0.004966	PASS
N48	30	100	DFT-QPSK	M	Outer Full	NV	30	4.000000	0.001103	PASS
N48	30	100	DFT-QPSK	M	Outer Full	NV	40	6.000000	0.001655	PASS
N48	30	100	DFT-QPSK	M	Outer Full	NV	50	11.000000	0.003034	PASS
N48	30	100	DFT-QPSK	H	Outer Full	VL	NT	18.000000	0.004932	PASS
N48	30	100	DFT-QPSK	H	Outer Full	VN	NT	4.000000	0.001096	PASS
N48	30	100	DFT-QPSK	H	Outer Full	VH	NT	6.000000	0.001644	PASS
N48	30	100	DFT-QPSK	H	Outer Full	NV	-30	16.000000	0.004384	PASS
N48	30	100	DFT-QPSK	H	Outer Full	NV	-20	18.000000	0.004932	PASS
N48	30	100	DFT-QPSK	H	Outer Full	NV	-10	11.000000	0.003014	PASS
N48	30	100	DFT-QPSK	H	Outer Full	NV	0	9.000000	0.002466	PASS
N48	30	100	DFT-QPSK	H	Outer Full	NV	10	2.000000	0.000548	PASS
N48	30	100	DFT-QPSK	H	Outer Full	NV	20	15.000000	0.004110	PASS
N48	30	100	DFT-QPSK	H	Outer Full	NV	30	7.000000	0.001918	PASS
N48	30	100	DFT-QPSK	H	Outer Full	NV	40	12.000000	0.003288	PASS
N48	30	100	DFT-QPSK	H	Outer Full	NV	50	2.000000	0.000548	PASS



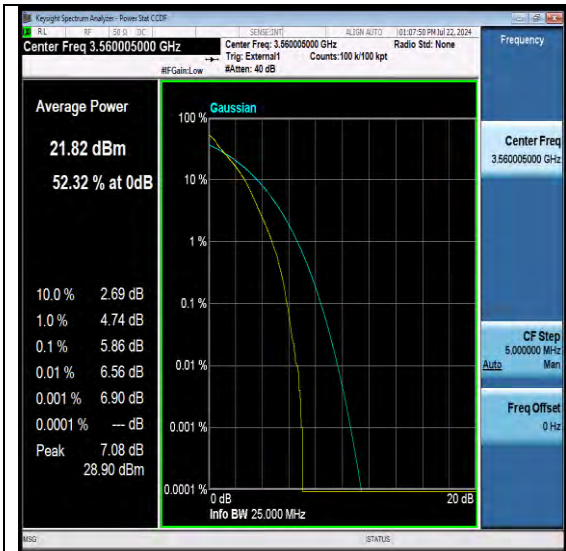
# PEAK-TO-AVERAGE RATIO FOR SA PEAK-TO-AVERAGE RATIO(CCDF)

## TEST RESULT

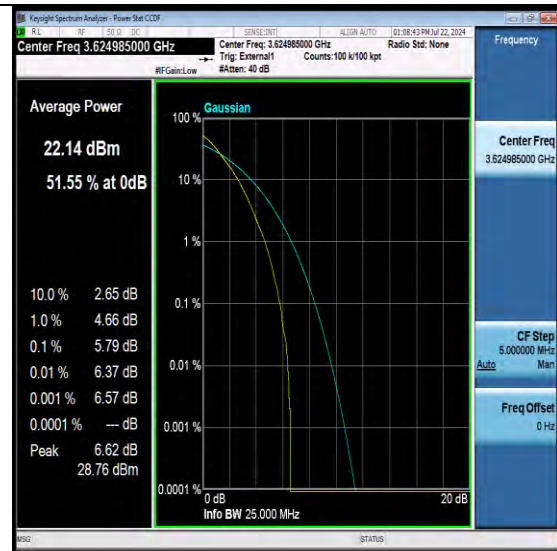
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N48	30	20	DFT-QPSK	L	Outer_Full	5.86	≤13	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	5.79	≤13	PASS
N48	30	20	DFT-QPSK	H	Outer_Full	5.79	≤13	PASS
N48	30	20	DFT-QPSK	L	Edge_1RB_Left	6.10	≤13	PASS
N48	30	20	DFT-QPSK	M	Edge_1RB_Left	6.07	≤13	PASS
N48	30	20	DFT-QPSK	H	Edge_1RB_Left	6.13	≤13	PASS



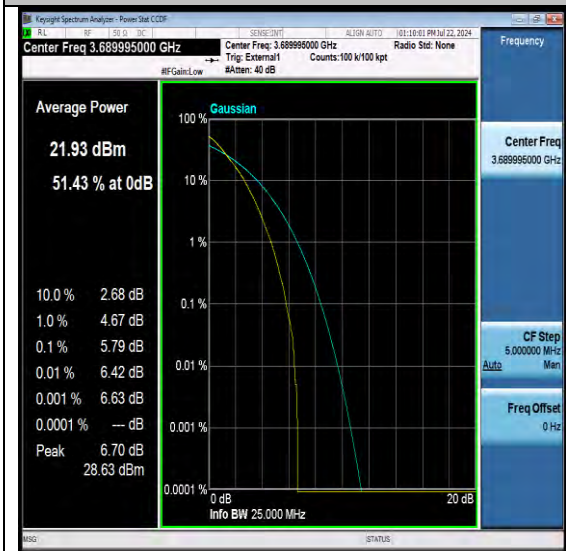
### TEST GRAPHS



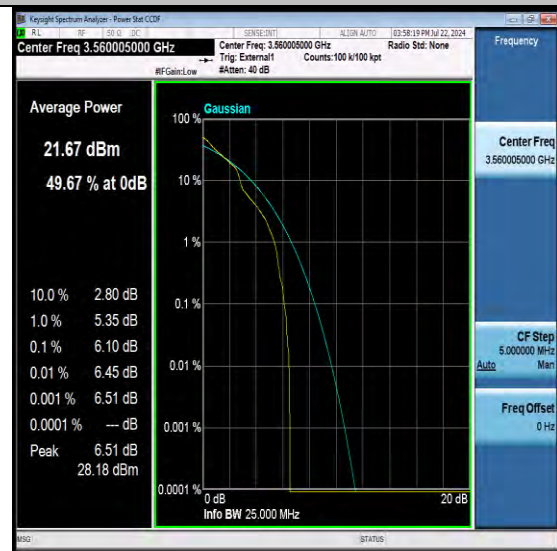
NTNV-N48-PC3-30-20-L-DFT-QPSK-Outer\_Full-P ASS



NTNV-N48-PC3-30-20-M-DFT-QPSK-Outer\_Full-P ASS



NTNV-N48-PC3-30-20-H-DFT-QPSK-Outer\_Full-P ASS



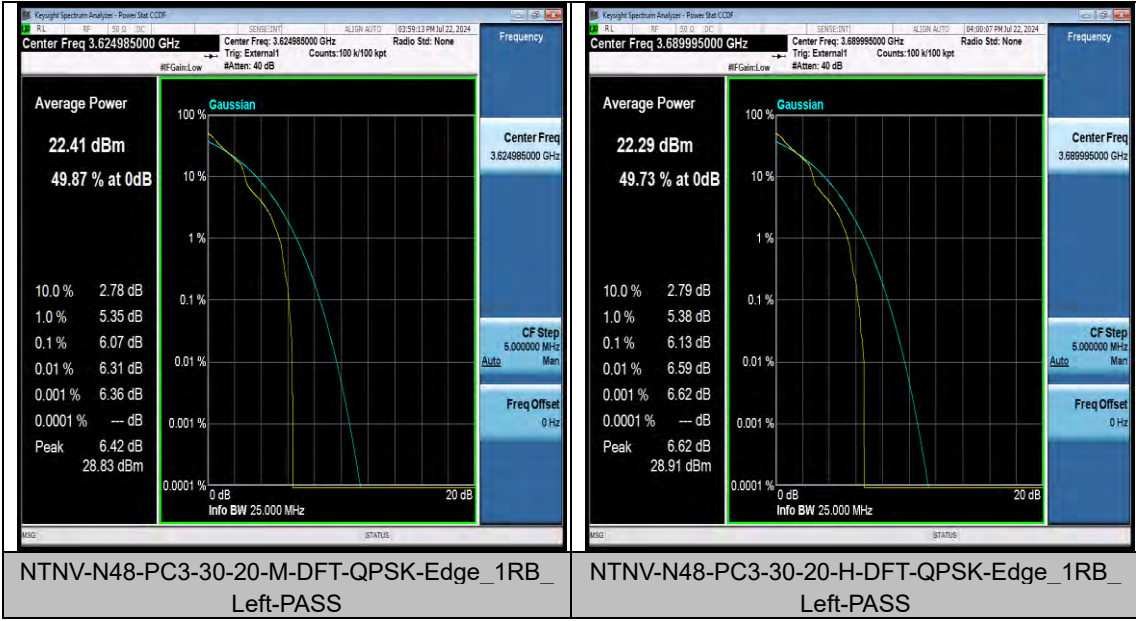
NTNV-N48-PC3-30-20-L-DFT-QPSK-Edge\_1RB\_Left-PASS





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### 26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N48	30	10	DFT-PI2BPSK	M	Outer_Full	8.5627	9.309	PASS
N48	30	10	DFT-QPSK	M	Outer_Full	8.5698	9.243	PASS
N48	30	10	DFT-16QAM	M	Outer_Full	8.5601	9.320	PASS
N48	30	10	DFT-64QAM	M	Outer_Full	8.5905	9.258	PASS
N48	30	10	DFT-256QAM	M	Outer_Full	8.5656	9.231	PASS
N48	30	100	DFT-PI2BPSK	M	Outer_Full	96.259	99.80	PASS
N48	30	100	DFT-QPSK	M	Outer_Full	96.039	99.68	PASS
N48	30	100	DFT-16QAM	M	Outer_Full	44.253	45.83	PASS
N48	30	100	DFT-64QAM	M	Outer_Full	96.088	99.83	PASS
N48	30	100	DFT-256QAM	M	Outer_Full	96.156	99.78	PASS
N48	30	15	DFT-PI2BPSK	M	Outer_Full	12.863	13.94	PASS
N48	30	15	DFT-QPSK	M	Outer_Full	12.855	13.83	PASS
N48	30	15	DFT-16QAM	M	Outer_Full	12.851	13.87	PASS
N48	30	15	DFT-64QAM	M	Outer_Full	12.901	14.00	PASS
N48	30	15	DFT-256QAM	M	Outer_Full	12.858	13.78	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	17.827	19.06	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	17.797	19.02	PASS
N48	30	20	DFT-16QAM	M	Outer_Full	17.836	19.05	PASS
N48	30	20	DFT-64QAM	M	Outer_Full	17.811	18.79	PASS
N48	30	20	DFT-256QAM	M	Outer_Full	17.841	19.03	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	26.779	28.32	PASS
N48	30	30	DFT-QPSK	M	Outer_Full	26.785	28.54	PASS
N48	30	30	DFT-16QAM	M	Outer_Full	26.761	28.30	PASS
N48	30	30	DFT-64QAM	M	Outer_Full	26.723	28.38	PASS
N48	30	30	DFT-256QAM	M	Outer_Full	26.759	28.29	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	35.678	37.47	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	35.749	37.68	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	35.678	37.60	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	35.698	37.66	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	35.658	37.64	PASS
N48	30	50	DFT-PI2BPSK	M	Outer_Full	45.747	47.86	PASS
N48	30	50	DFT-QPSK	M	Outer_Full	45.646	47.77	PASS
N48	30	50	DFT-16QAM	M	Outer_Full	45.693	48.18	PASS
N48	30	50	DFT-64QAM	M	Outer_Full	45.620	47.85	PASS
N48	30	50	DFT-256QAM	M	Outer_Full	45.818	47.90	PASS
N48	30	60	DFT-PI2BPSK	M	Outer_Full	57.781	59.89	PASS
N48	30	60	DFT-QPSK	M	Outer_Full	57.739	60.11	PASS
N48	30	60	DFT-16QAM	M	Outer_Full	57.752	59.92	PASS
N48	30	60	DFT-64QAM	M	Outer_Full	57.792	59.91	PASS
N48	30	60	DFT-256QAM	M	Outer_Full	57.686	60.05	PASS
N48	30	70	DFT-PI2BPSK	M	Outer_Full	64.262	67.32	PASS
N48	30	70	DFT-QPSK	M	Outer_Full	64.202	67.71	PASS
N48	30	70	DFT-16QAM	M	Outer_Full	64.169	67.33	PASS



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N48	30	70	DFT-64QAM	M	Outer_Full	64.267	67.32	PASS
N48	30	70	DFT-256QAM	M	Outer_Full	64.209	67.66	PASS
N48	30	80	DFT-PI2BPSK	M	Outer_Full	76.990	79.84	PASS
N48	30	80	DFT-QPSK	M	Outer_Full	76.831	79.66	PASS
N48	30	80	DFT-16QAM	M	Outer_Full	76.921	80.05	PASS
N48	30	80	DFT-64QAM	M	Outer_Full	76.902	79.77	PASS
N48	30	80	DFT-256QAM	M	Outer_Full	76.864	79.89	PASS
N48	30	90	DFT-PI2BPSK	M	Outer_Full	86.568	89.58	PASS
N48	30	90	DFT-QPSK	M	Outer_Full	86.546	89.83	PASS
N48	30	90	DFT-16QAM	M	Outer_Full	74.057	75.88	PASS
N48	30	90	DFT-64QAM	M	Outer_Full	86.527	89.68	PASS
N48	30	90	DFT-256QAM	M	Outer_Full	86.577	89.57	PASS







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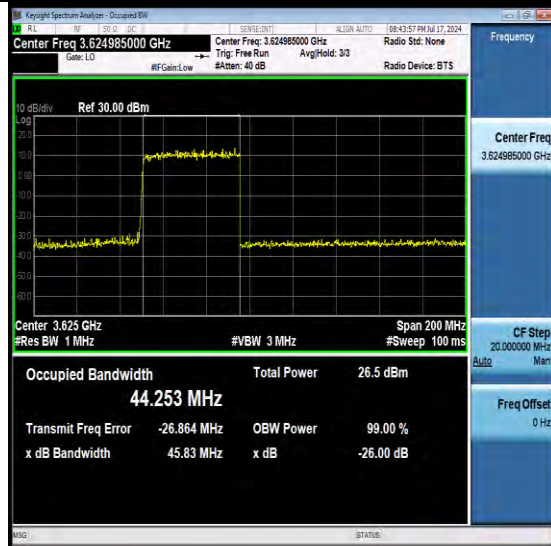
NTNV-N48-PC3-30-10-M-DFT-256QAM-Outer\_Full-Ant1-PASS



NTNV-N48-PC3-30-100-M-DFT-PI2BPSK-Outer\_Full-Ant1-PASS



NTNV-N48-PC3-30-100-M-DFT-QPSK-Outer\_Full-Ant1-PASS



NTNV-N48-PC3-30-100-M-DFT-16QAM-Outer\_Full-Ant1-PASS



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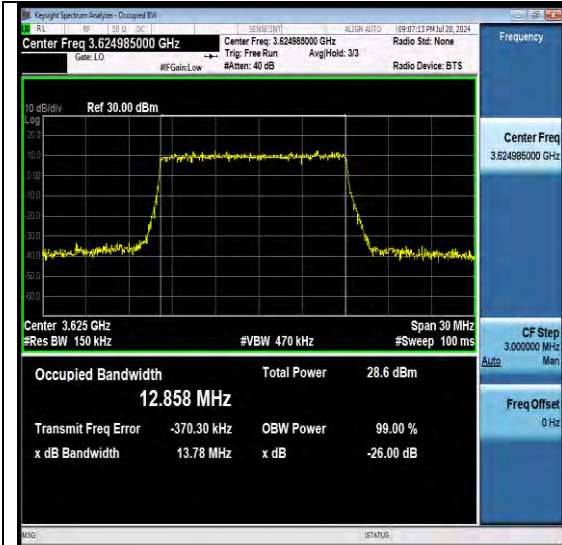




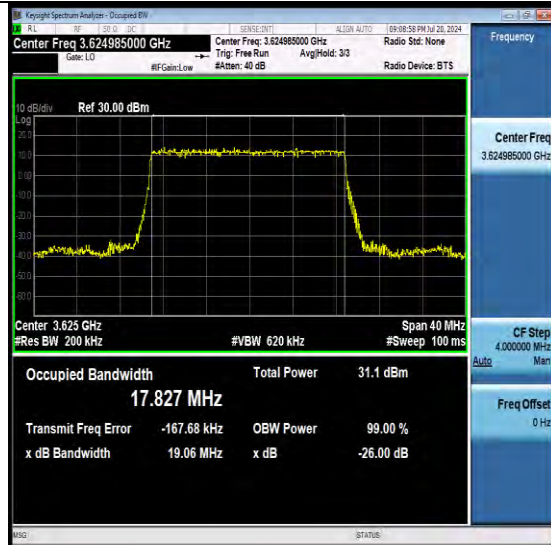


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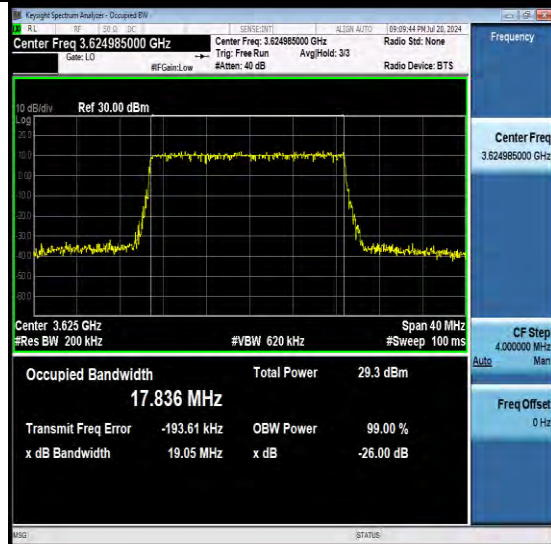
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NTNV-N48-PC3-30-20-M-DFT-PI2BPSK-Outer\_Fu II-Ant1-PASS



NTNV-N48-PC3-30-20-M-DFT-QPSK-Outer\_Full-Ant1-PASS



NTNV-N48-PC3-30-20-M-DFT-16QAM-Outer\_Full-Ant1-PASS



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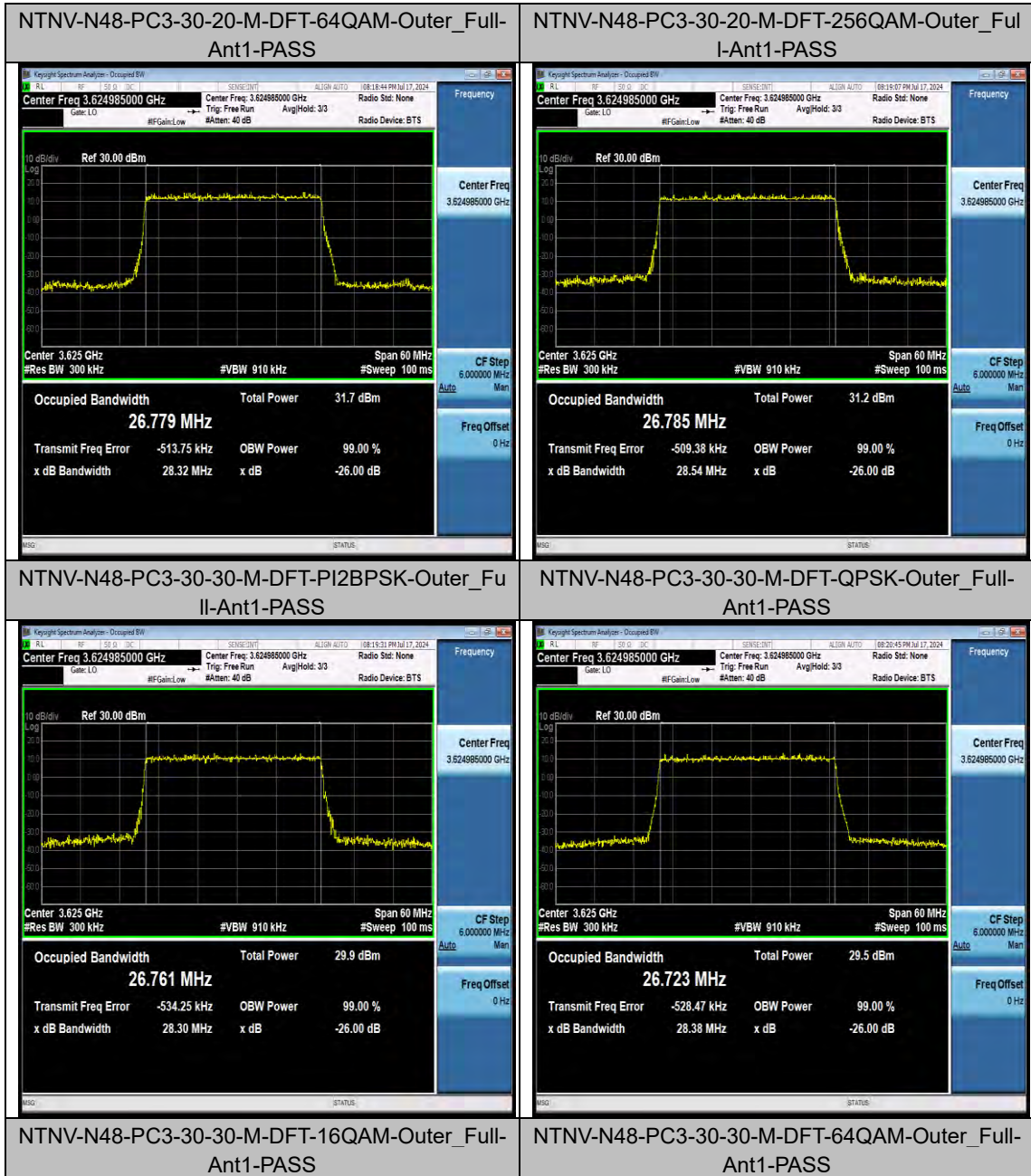
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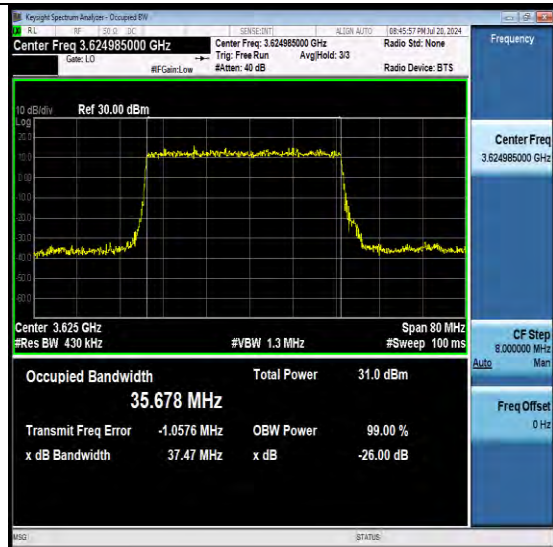


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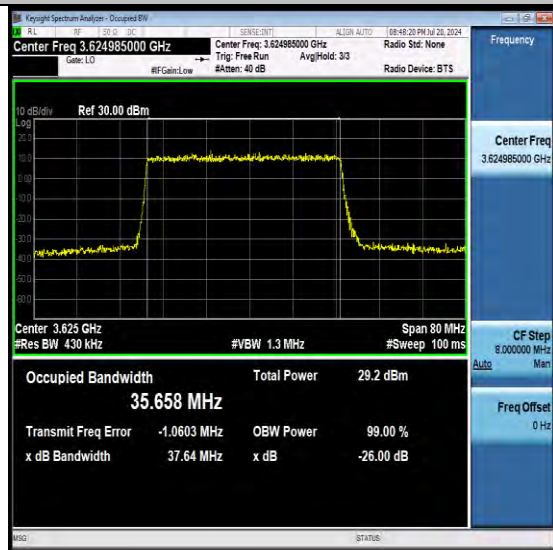
NTNV-N48-PC3-30-40-M-DFT-PI2BPSK-Outer\_Fu II-Ant1-PASS



NTNV-N48-PC3-30-40-M-DFT-QPSK-Outer\_Full-Ant1-PASS



NTNV-N48-PC3-30-40-M-DFT-16QAM-Outer\_Full-Ant1-PASS

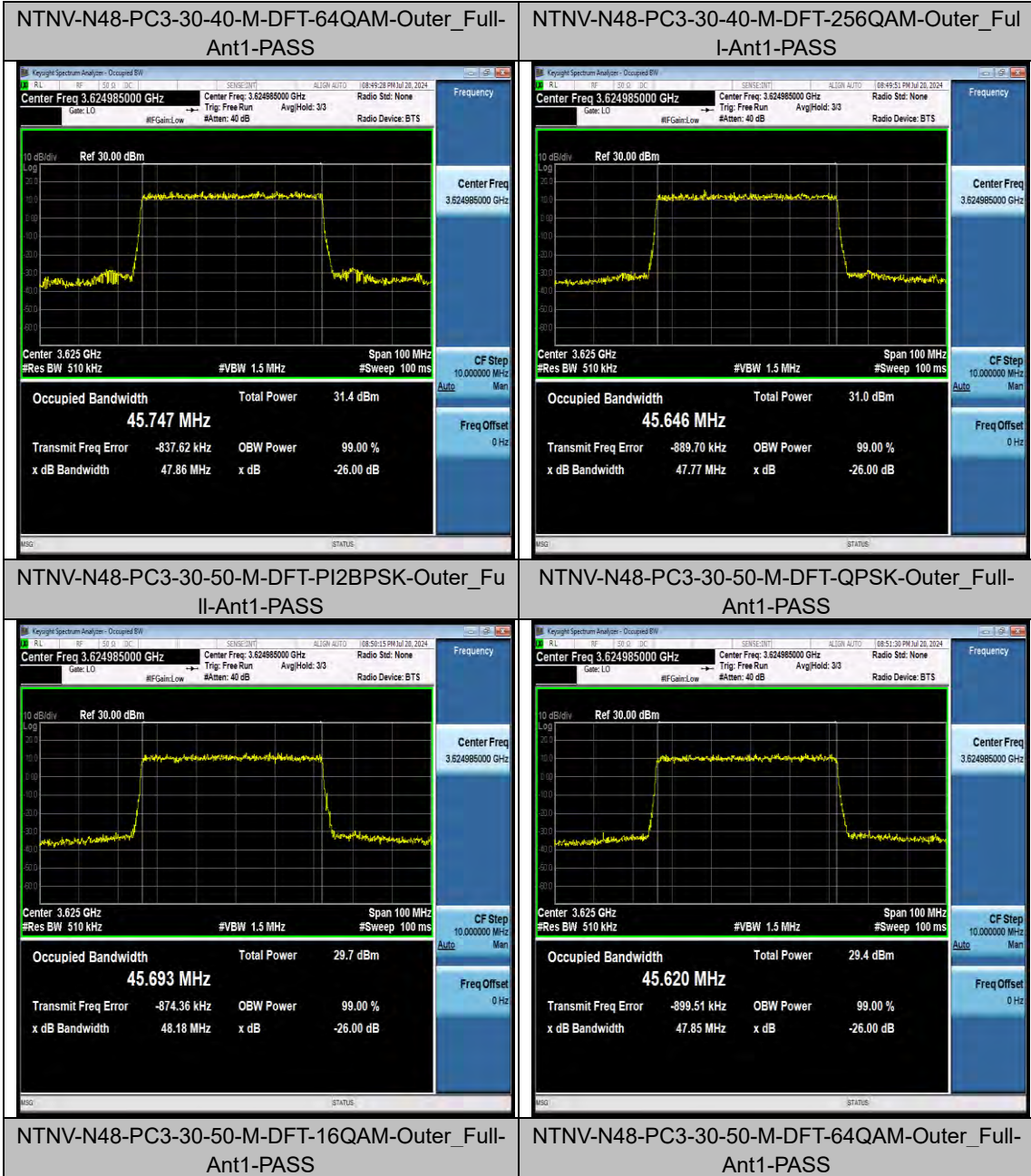


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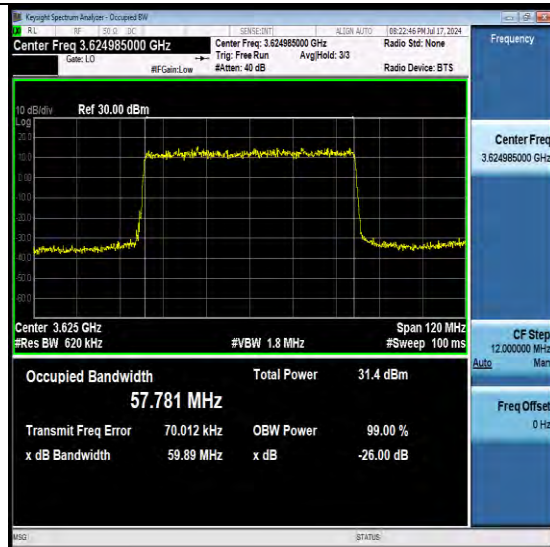


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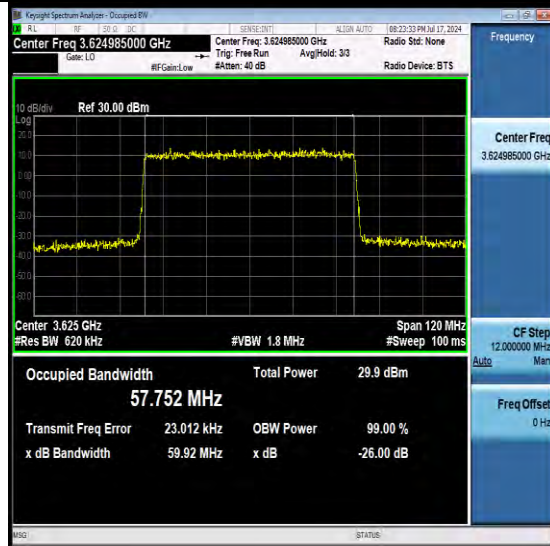
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NTNV-N48-PC3-30-60-M-DFT-PI2BPSK-Outer\_Fu II-Ant1-PASS



NTNV-N48-PC3-30-60-M-DFT-QPSK-Outer\_Full-Ant1-PASS



NTNV-N48-PC3-30-60-M-DFT-16QAM-Outer\_Full-Ant1-PASS



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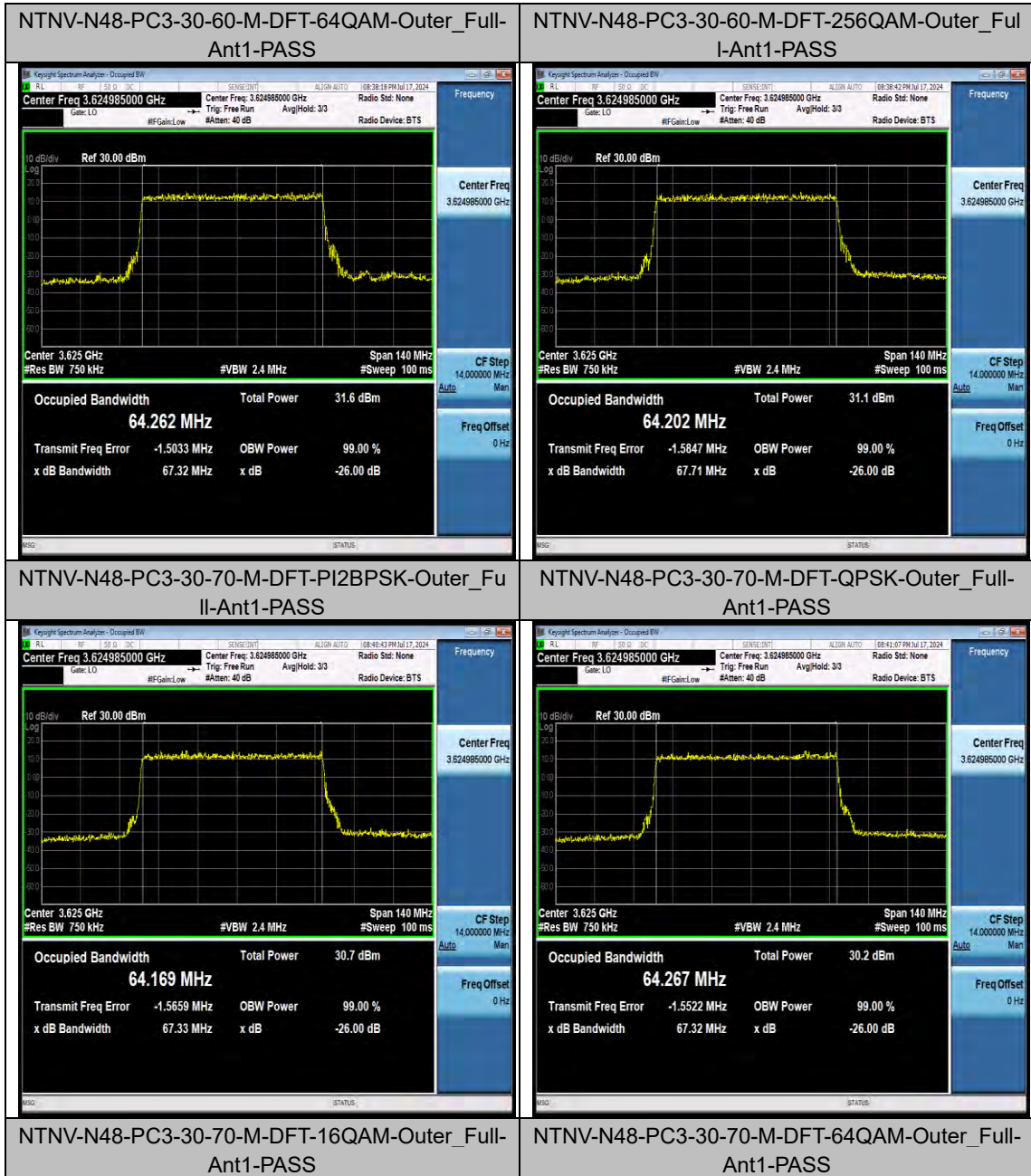
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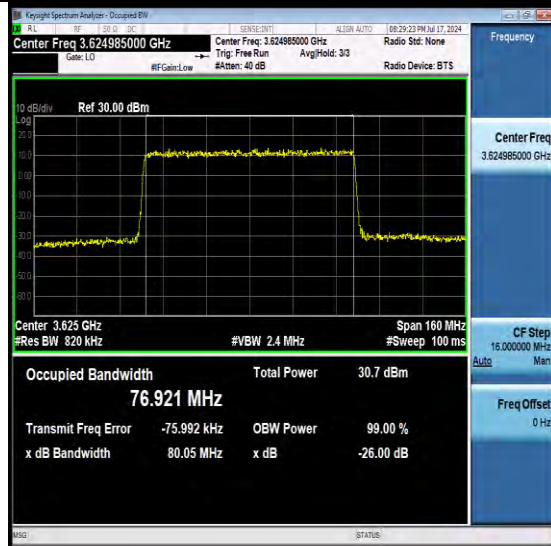
NTNV-N48-PC3-30-70-M-DFT-256QAM-Outer\_Ful I-Ant1-PASS



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NTNV-N48-PC3-30-80-M-DFT-QPSK-Outer\_Full-Ant1-PASS



NTNV-N48-PC3-30-80-M-DFT-16QAM-Outer\_Full-Ant1-PASS

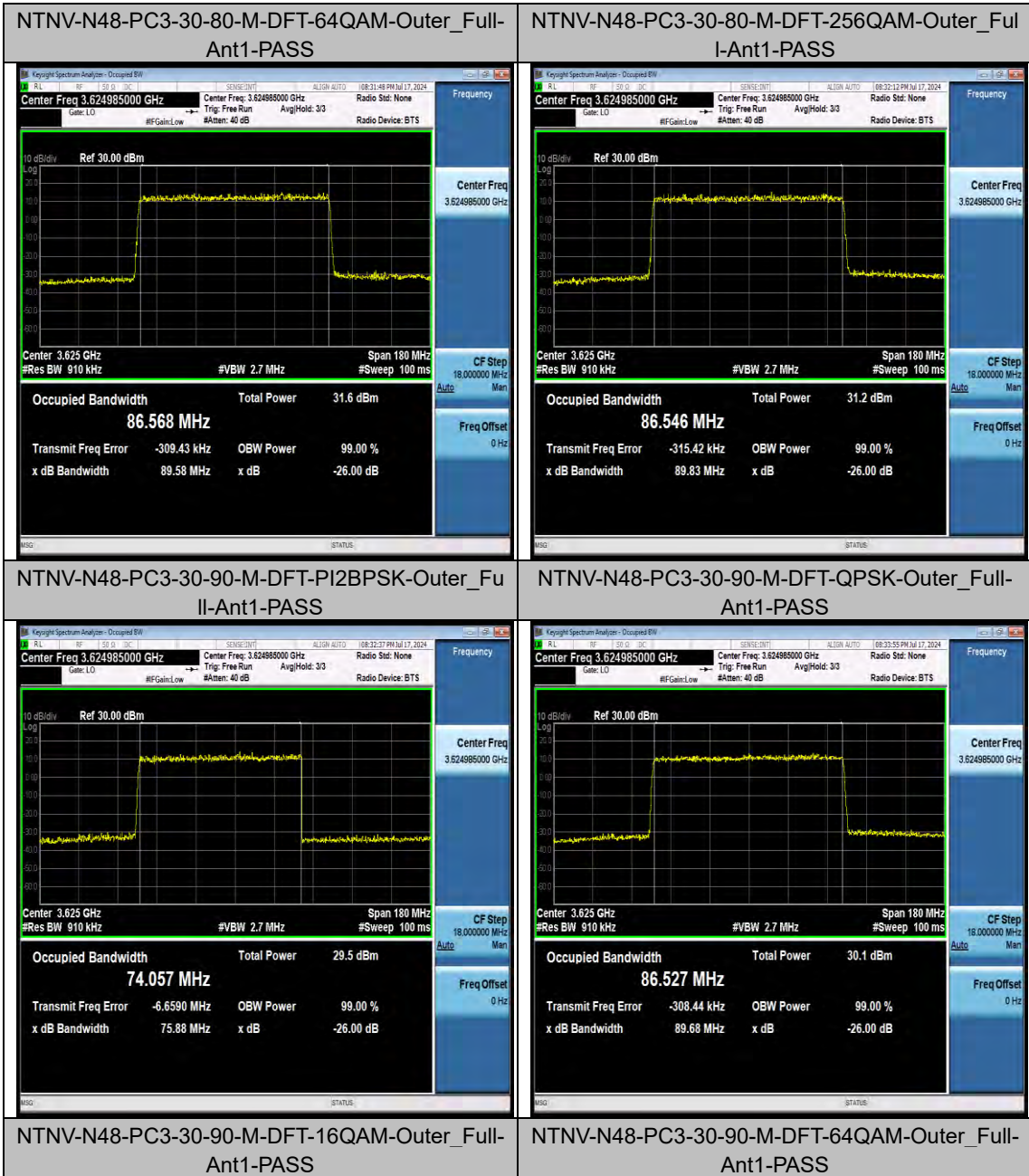


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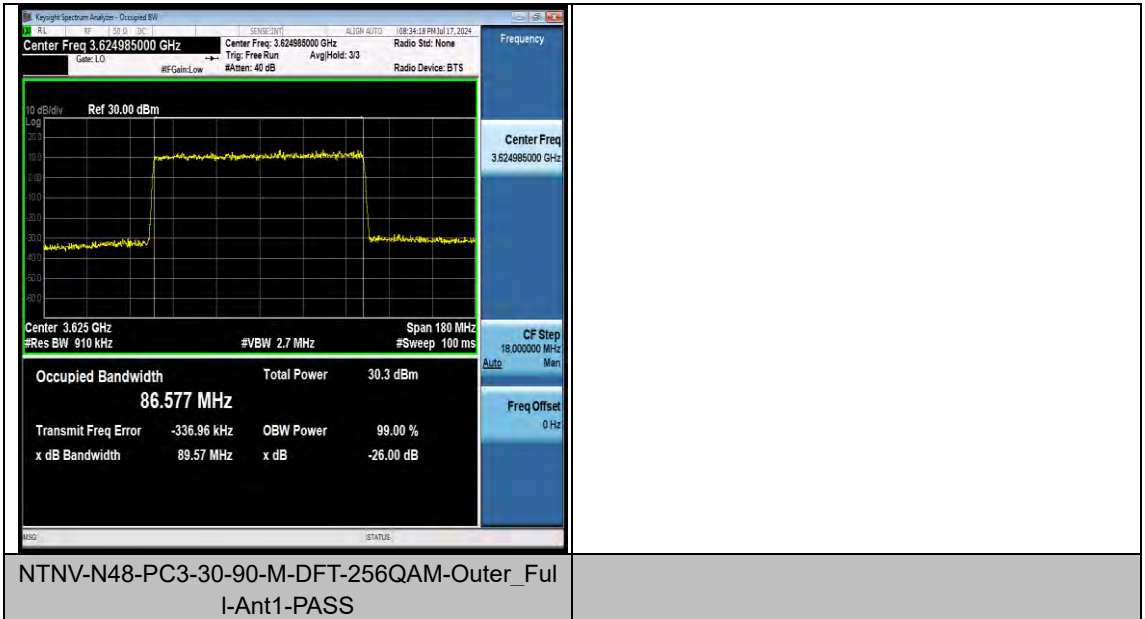






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