Appendix for n70

Product Name: TITAN 5400
Model No: G5G-X62O

Appendix A: Average Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Power Class	Verdict
N70	15	15	DFT-QPSK	L	Outer_Full	22.78	PC3	PASS
N70	15	15	DFT-QPSK	L	Inner_Full	23.74	PC3	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Left	23.02	PC3	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Right	23.05	PC3	PASS
N70	15	15	DFT-16QAM	L	Outer_Full	21.78	PC3	PASS
N70	15	15	DFT-16QAM	L	Inner_Full	22.67	PC3	PASS
N70	15	15	DFT-16QAM	L	Edge_1RB_Left	21.75	PC3	PASS
N70	15	15	DFT-16QAM	L	Edge_1RB_Right	21.96	PC3	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	22.73	PC3	PASS
N70	15	15	DFT-QPSK	M	Inner_Full	23.69	PC3	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Left	23.09	PC3	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Right	22.79	PC3	PASS
N70	15	15	DFT-16QAM	M	Outer_Full	21.72	PC3	PASS
N70	15	15	DFT-16QAM	M	Inner_Full	22.55	PC3	PASS
N70	15	15	DFT-16QAM	M	Edge_1RB_Left	22.37	PC3	PASS
N70	15	15	DFT-16QAM	M	Edge_1RB_Right	21.93	PC3	PASS
N70	15	15	DFT-QPSK	H	Outer_Full	22.70	PC3	PASS
N70	15	15	DFT-QPSK	H	Inner_Full	23.80	PC3	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Left	22.89	PC3	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Right	22.96	PC3	PASS
N70	15	15	DFT-16QAM	H	Outer_Full	21.80	PC3	PASS
N70	15	15	DFT-16QAM	H	Inner_Full	22.78	PC3	PASS
N70	15	15	DFT-16QAM	H	Edge_1RB_Left	21.82	PC3	PASS
N70	15	15	DFT-16QAM	H	Edge_1RB_Right	21.61	PC3	PASS

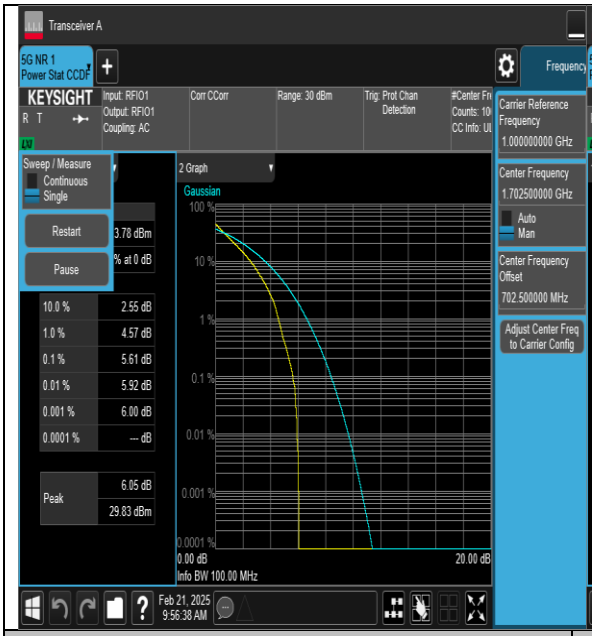
Appendix B: Peak-to-Average Ratio for SA

Peak-to-Average Ratio(CCDF)

Test Result

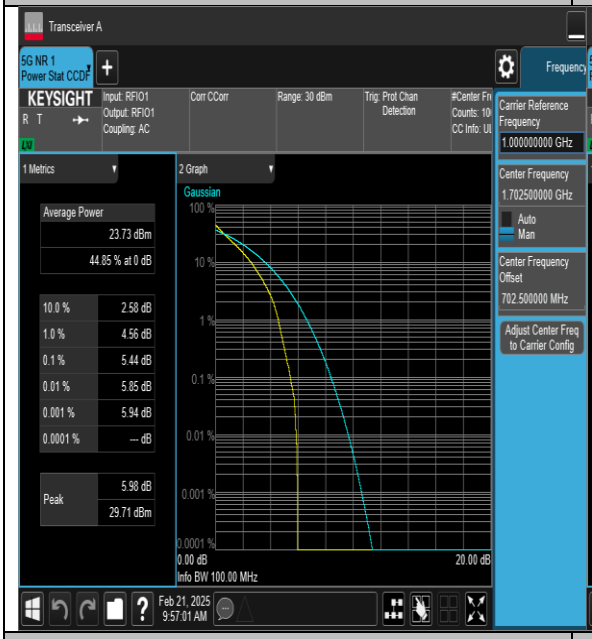
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N70	15	15	DFT-QPSK	L	Outer_Full	5.61	≤13	PASS
N70	15	15	DFT-16QAM	L	Outer_Full	6.43	≤13	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	5.44	≤13	PASS
N70	15	15	DFT-16QAM	M	Outer_Full	6.31	≤13	PASS
N70	15	15	DFT-QPSK	H	Outer_Full	5.44	≤13	PASS
N70	15	15	DFT-16QAM	H	Outer_Full	6.43	≤13	PASS

Test Graphs

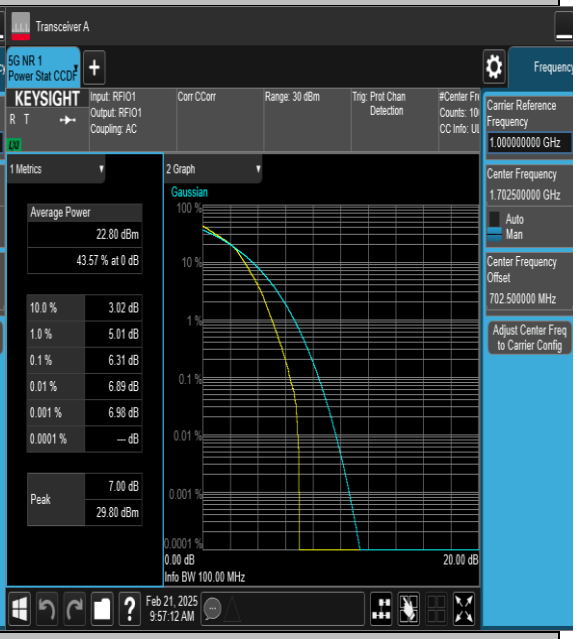


NTNV-N70-PC3-15-15-L-DFT-QPSK-Outer_Full-PASS

NTNV-N70-PC3-15-15-L-DFT-16QAM-Outer_Full-PASS



NTNV-N70-PC3-15-15-M-DFT-QPSK-Outer_Full-PASS



NTNV-N70-PC3-15-15-M-DFT-16QAM-Outer_Full-PASS

	
NTNV-N70-PC3-15-15-H-DFT-QPSK-Outer_Full-PASS	NTNV-N70-PC3-15-15-H-DFT-16QAM-Outer_Full-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N70	15	15	DFT-QPSK	L	Outer_Full	13.384	14.25	PASS
N70	15	15	DFT-16QAM	L	Outer_Full	13.374	14.32	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	13.385	14.28	PASS
N70	15	15	DFT-16QAM	M	Outer_Full	13.380	14.33	PASS
N70	15	15	DFT-QPSK	H	Outer_Full	13.378	14.26	PASS
N70	15	15	DFT-16QAM	H	Outer_Full	13.381	14.30	PASS

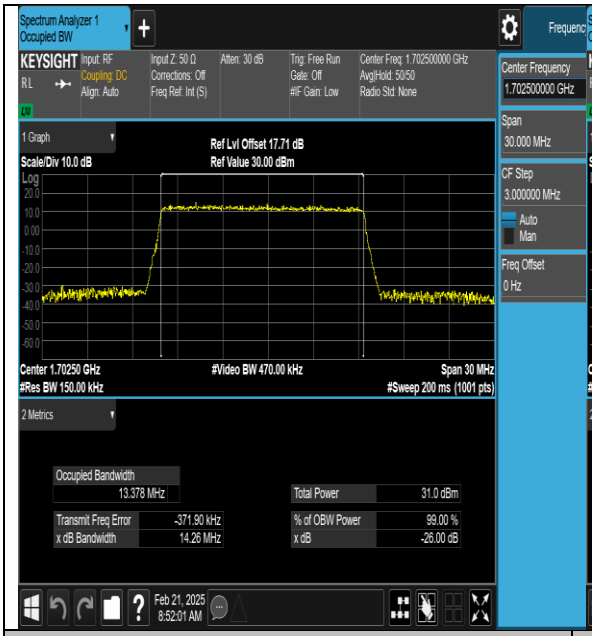
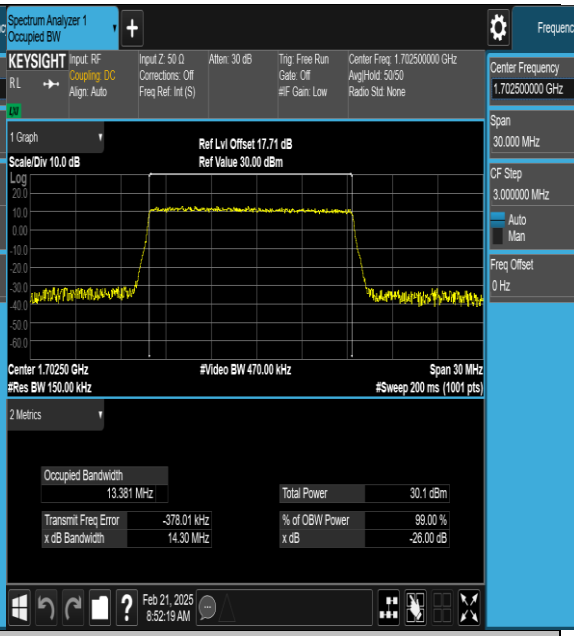
Test Graphs

NTNV-N70-PC3-15-15-L-DFT-QPSK-Outer_Full-Ant1-PASS

NTNV-N70-PC3-15-15-L-DFT-16QAM-Outer_Full-Ant1-PASS

NTNV-N70-PC3-15-15-M-DFT-QPSK-Outer_Full-Ant1-PASS

NTNV-N70-PC3-15-15-M-DFT-16QAM-Outer_Full-Ant1-PASS

	
NTNV-N70-PC3-15-15-H-DFT-QPSK-Outer_Full-Ant1-PASS	NTNV-N70-PC3-15-15-H-DFT-16QAM-Outer_Full-Ant1-PASS

Appendix D: Band Edge for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Margin	Verdict
N70	15	15	DFT-QPSK	L	Outer_Full	-40.57	27.57	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Left	-36.13	23.13	PASS
N70	15	15	DFT-QPSK	H	Outer_Full	-44.58	31.58	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Right	-36.30	23.30	PASS

Test Graphs

NTNV-N70-PC3-15-15-L-DFT-QPSK-Outer_Full-Ant1-PASS	NTNV-N70-PC3-15-15-L-DFT-QPSK-Edge_1RB_Left-Ant1-PASS

NTNV-N70-PC3-15-15-H-DFT-QPSK-Outer_Full-Ant1-PASS	NTNV-N70-PC3-15-15-H-DFT-QPSK-Edge_1RB_Right-Ant1-PASS

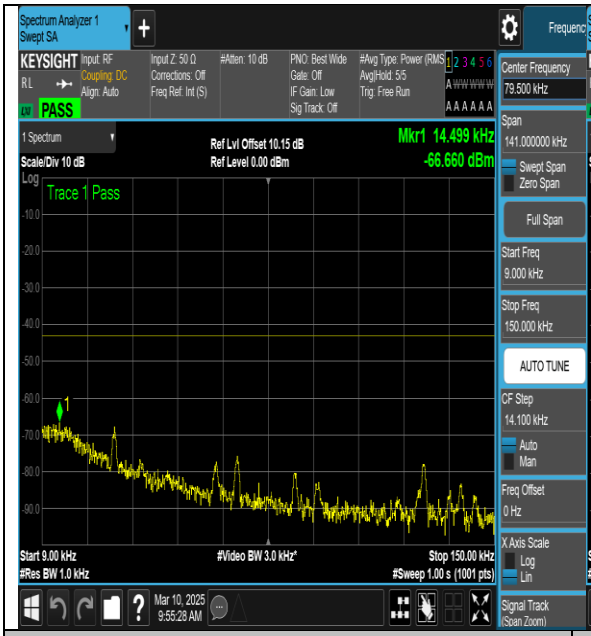
Appendix E: Conducted Spurious Emission for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N70	15	15	DFT-QPSK	L	Outer_Full	0.009	0.15	-66.66	-43	PASS
N70	15	15	DFT-QPSK	L	Outer_Full	0.15	30	-47.93	-33	PASS
N70	15	15	DFT-QPSK	L	Outer_Full	30	1000	-65.39	-23	PASS
N70	15	15	DFT-QPSK	L	Outer_Full	1000	3000	-39.96	-13	PASS
N70	15	15	DFT-QPSK	L	Outer_Full	3000	12000	-45.71	-13	PASS
N70	15	15	DFT-QPSK	L	Outer_Full	12000	20000	-47.42	-13	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Left	0.009	0.15	-67.12	-43	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Left	0.15	30	-47.86	-33	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Left	30	1000	-65.38	-23	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-40.00	-13	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-45.68	-13	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Left	12000	20000	-47.64	-13	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Right	0.009	0.15	-65.78	-43	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Right	0.15	30	-45.81	-33	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Right	30	1000	-45.96	-23	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Right	1000	3000	-39.94	-13	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Right	3000	12000	-45.59	-13	PASS
N70	15	15	DFT-QPSK	L	Edge_1RB_Right	12000	20000	-47.68	-13	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	0.009	0.15	-66.58	-43	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	0.15	30	-40.32	-33	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	30	1000	-46.13	-23	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	1000	3000	-39.92	-13	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	3000	12000	-45.68	-13	PASS
N70	15	15	DFT-QPSK	M	Outer_Full	12000	20000	-47.55	-13	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Left	0.009	0.15	-67.09	-43	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Left	0.15	30	-44.73	-33	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Left	30	1000	-45.97	-23	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-39.87	-13	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-45.71	-13	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Left	12000	20000	-47.46	-13	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Right	0.009	0.15	-66.72	-43	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Right	0.15	30	-42.70	-33	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Right	30	1000	-45.97	-23	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Right	1000	3000	-39.97	-13	PASS
N70	15	15	DFT-QPSK	M	Edge_1RB_Right	3000	12000	-45.69	-13	PASS

N70	15	15	DFT-QPSK	M	Edge_1RB_Right	12000	20000	-47.45	-13	PASS
N70	15	15	DFT-QPSK	H	Outer_Full	0.009	0.15	-66.75	-43	PASS
N70	15	15	DFT-QPSK	H	Outer_Full	0.15	30	-44.84	-33	PASS
N70	15	15	DFT-QPSK	H	Outer_Full	30	1000	-46.30	-23	PASS
N70	15	15	DFT-QPSK	H	Outer_Full	1000	3000	-39.77	-13	PASS
N70	15	15	DFT-QPSK	H	Outer_Full	3000	12000	-45.71	-13	PASS
N70	15	15	DFT-QPSK	H	Outer_Full	12000	20000	-47.67	-13	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Left	0.009	0.15	-66.83	-43	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Left	0.15	30	-42.11	-33	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Left	30	1000	-46.20	-23	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-39.94	-13	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-45.63	-13	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Left	12000	20000	-47.52	-13	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Right	0.009	0.15	-67.07	-43	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Right	0.15	30	-41.39	-33	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Right	30	1000	-46.42	-23	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Right	1000	3000	-39.80	-13	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Right	3000	12000	-45.41	-13	PASS
N70	15	15	DFT-QPSK	H	Edge_1RB_Right	12000	20000	-47.55	-13	PASS

Test Graphs



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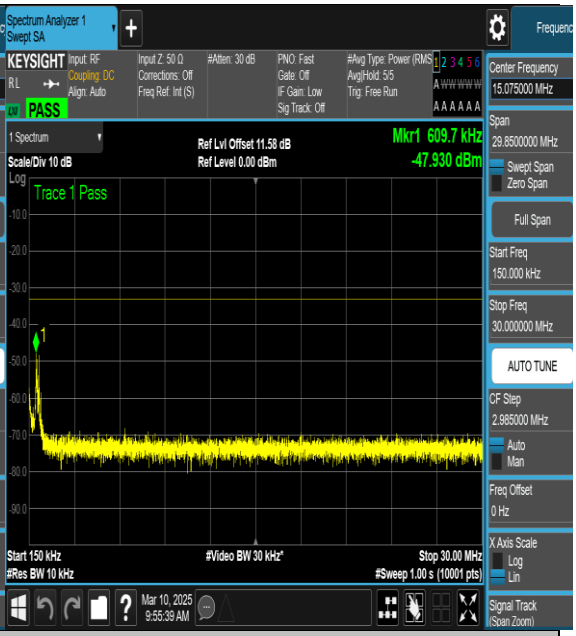

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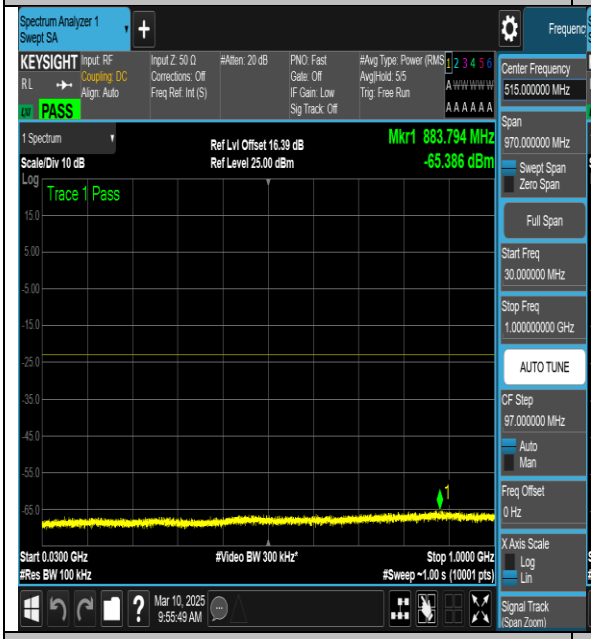

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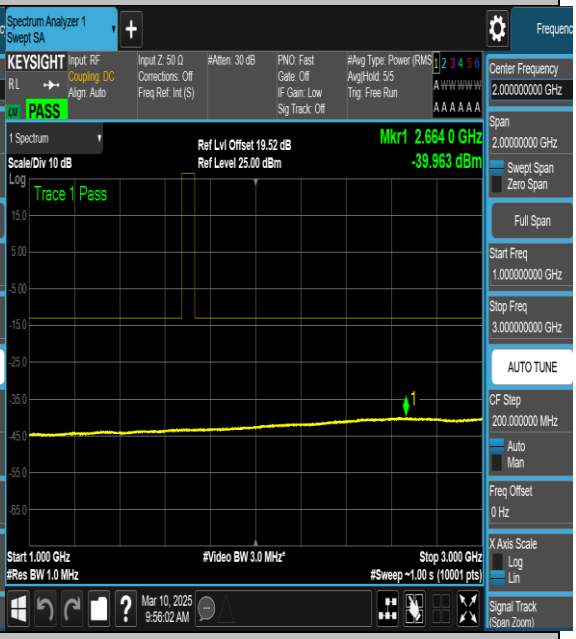

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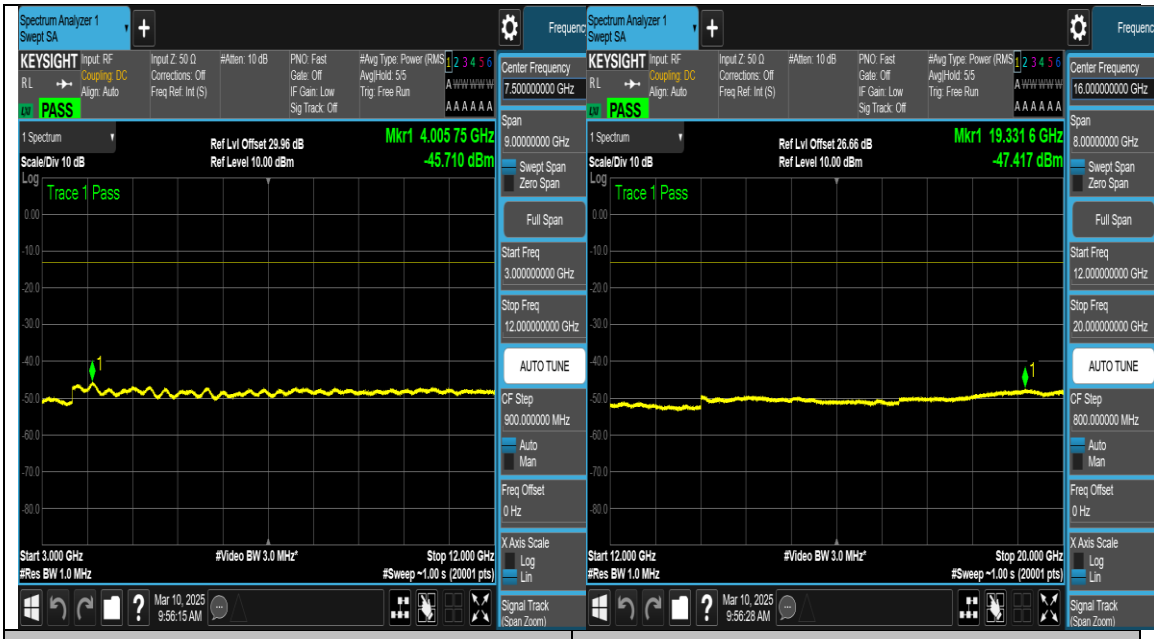

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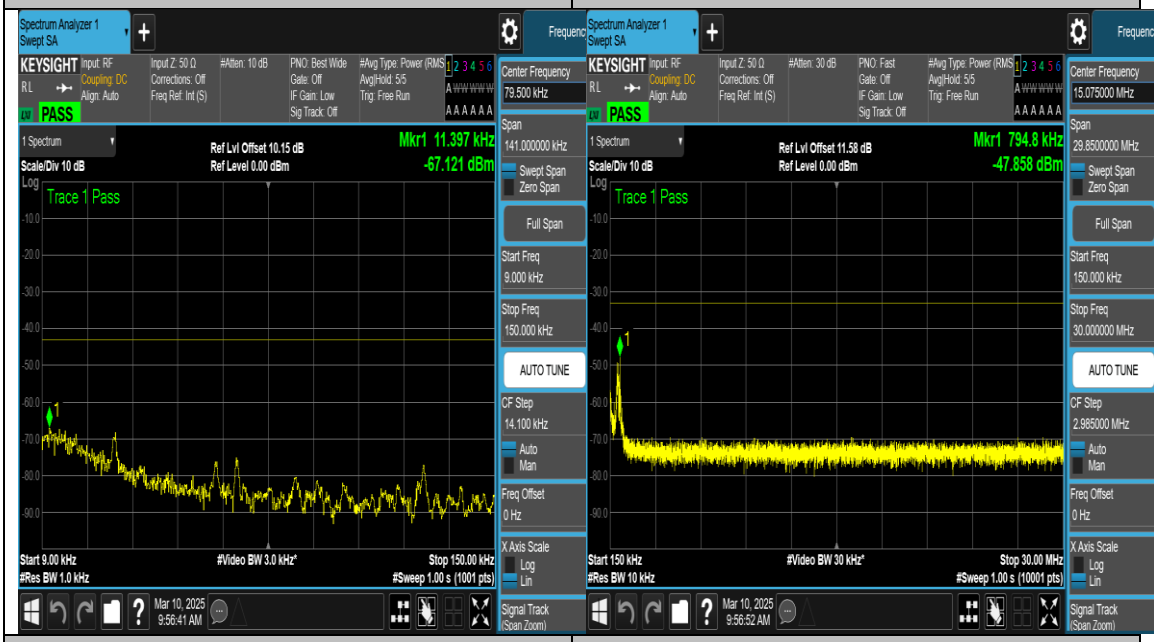

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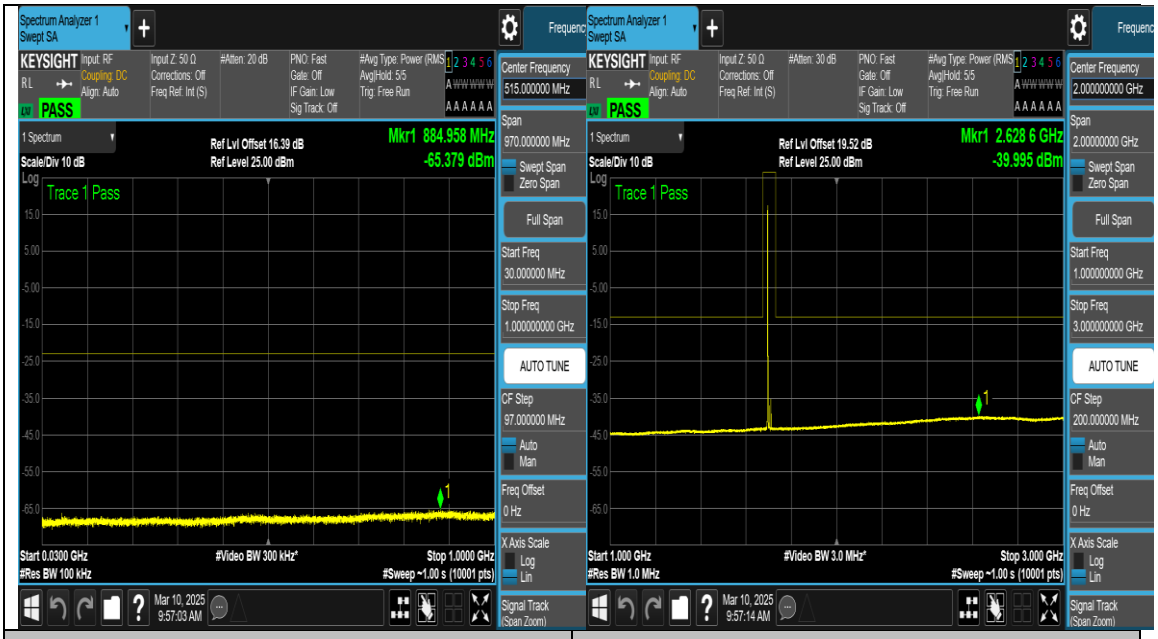

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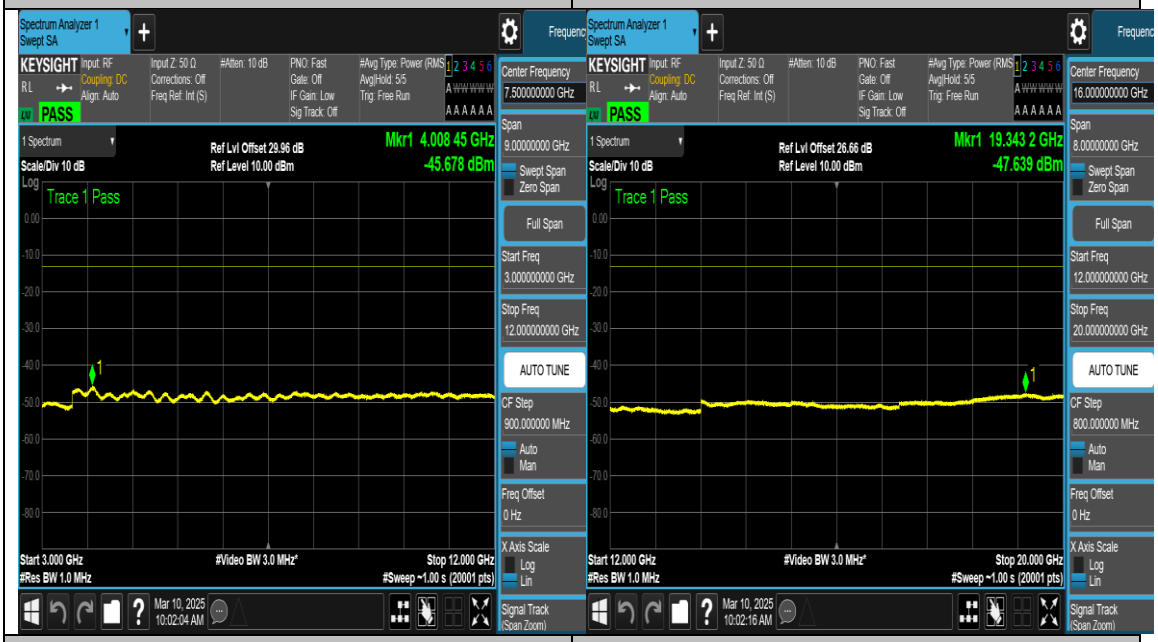

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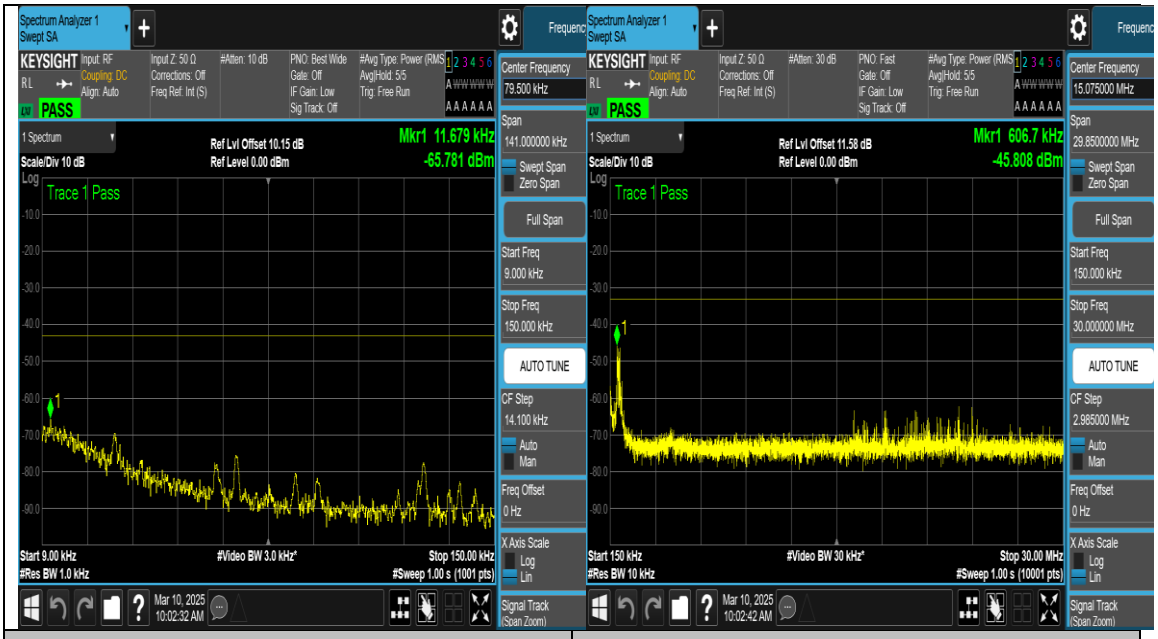

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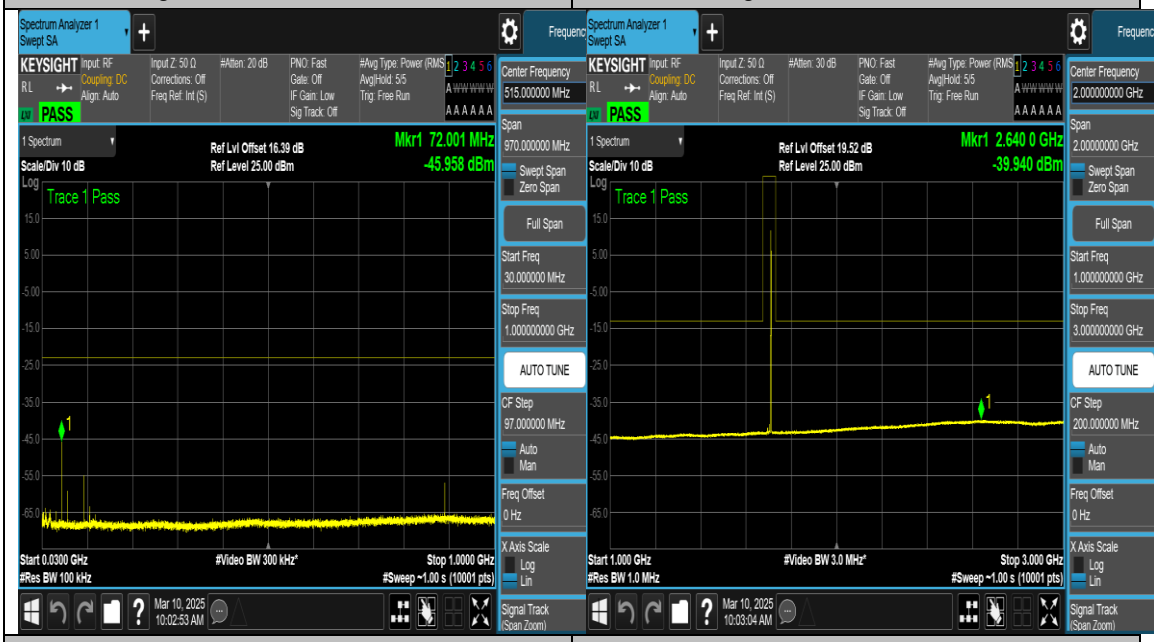

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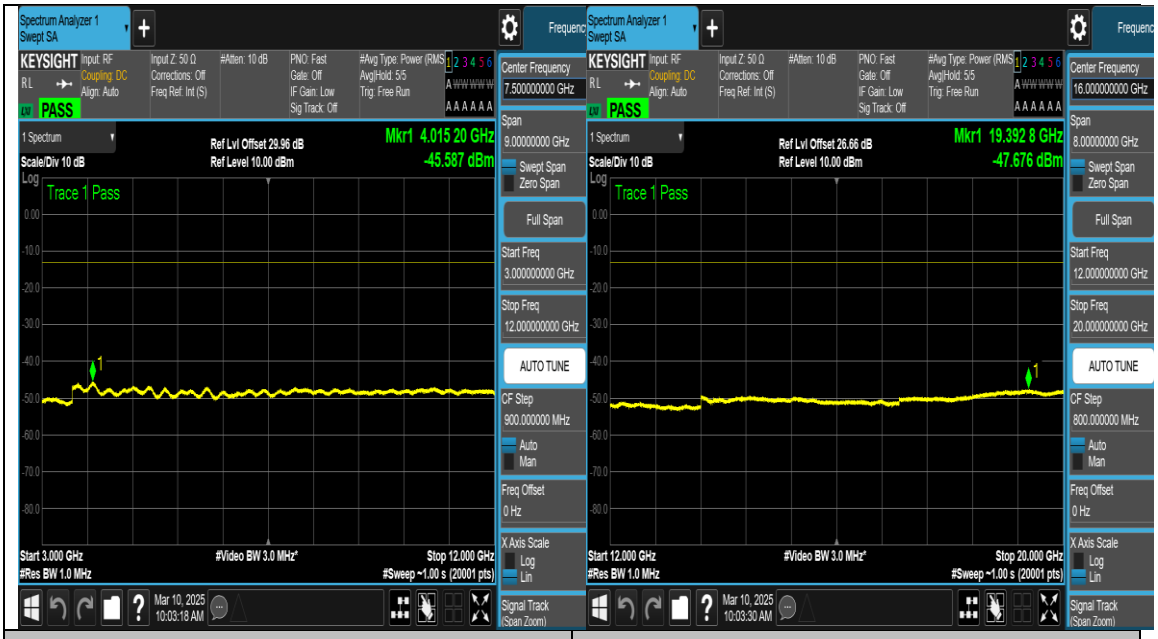
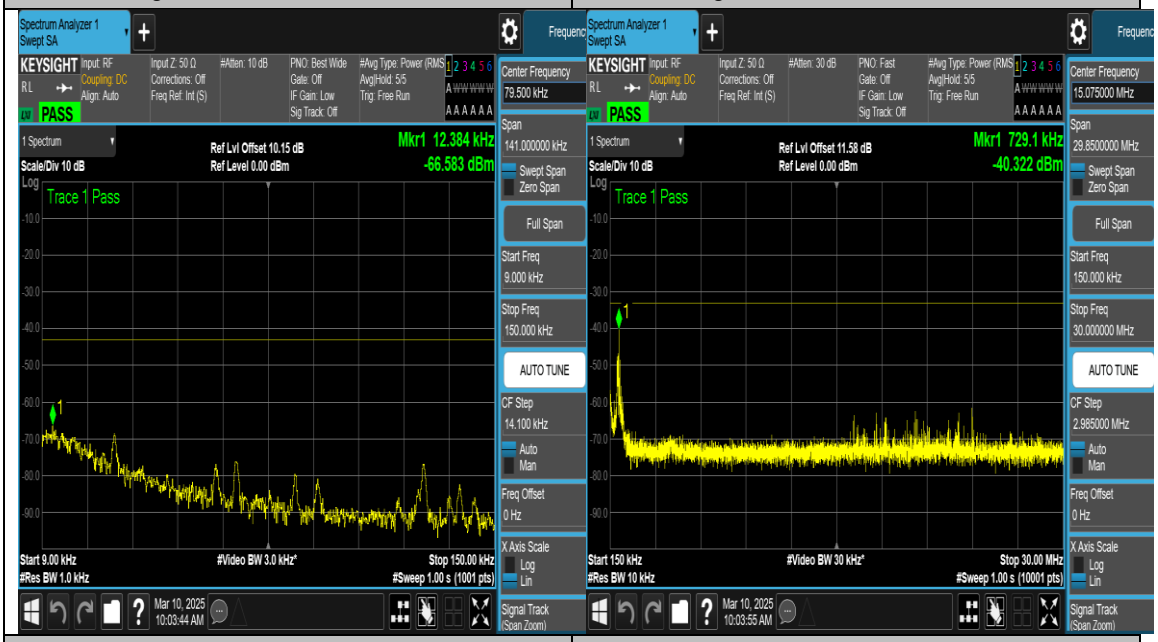


NTNV-N70-PC3-15-15-L-DFT-QPSK-Edge_1RB_ Right-3000-12000-Ant1-PASS	NTNV-N70-PC3-15-15-L-DFT-QPSK-Edge_1RB_ Right-12000-20000-Ant1-PASS



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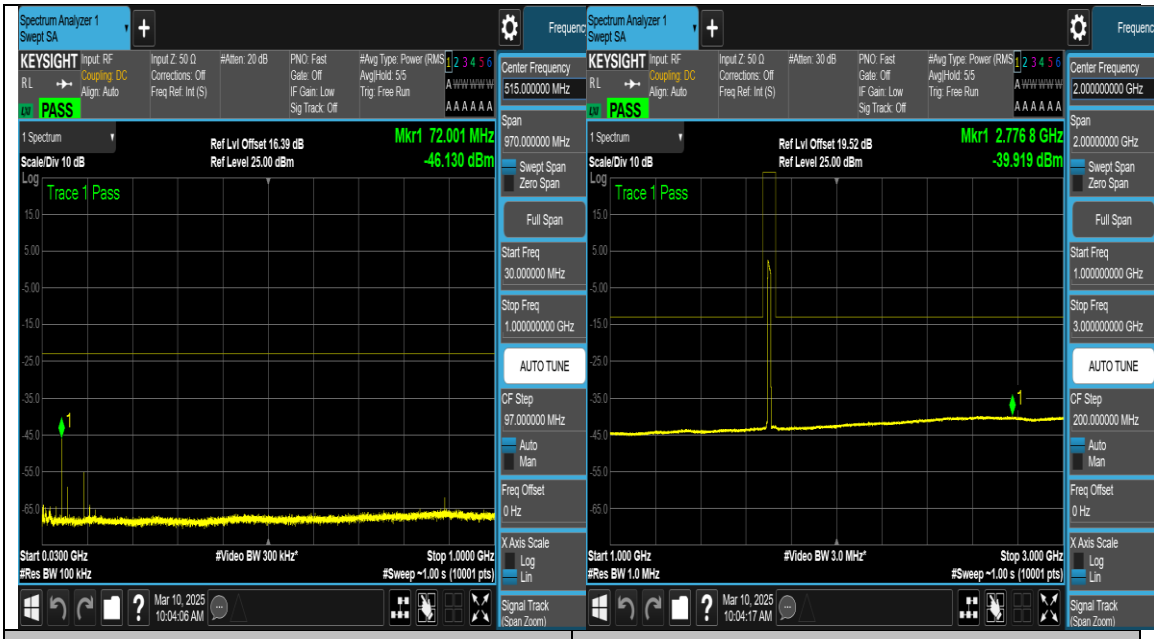

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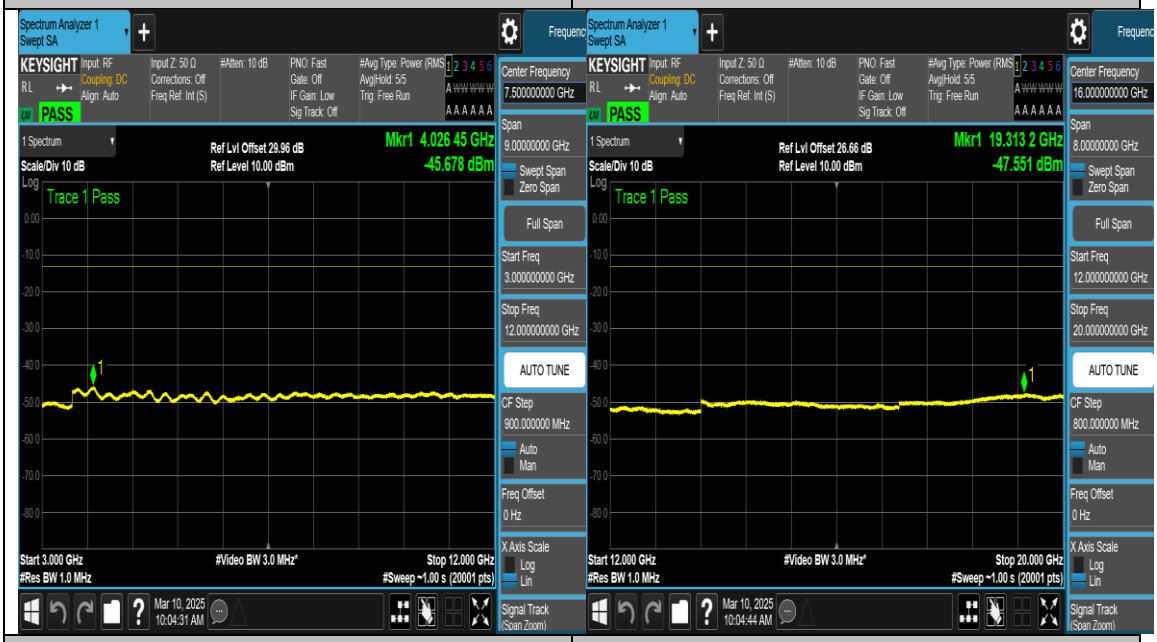

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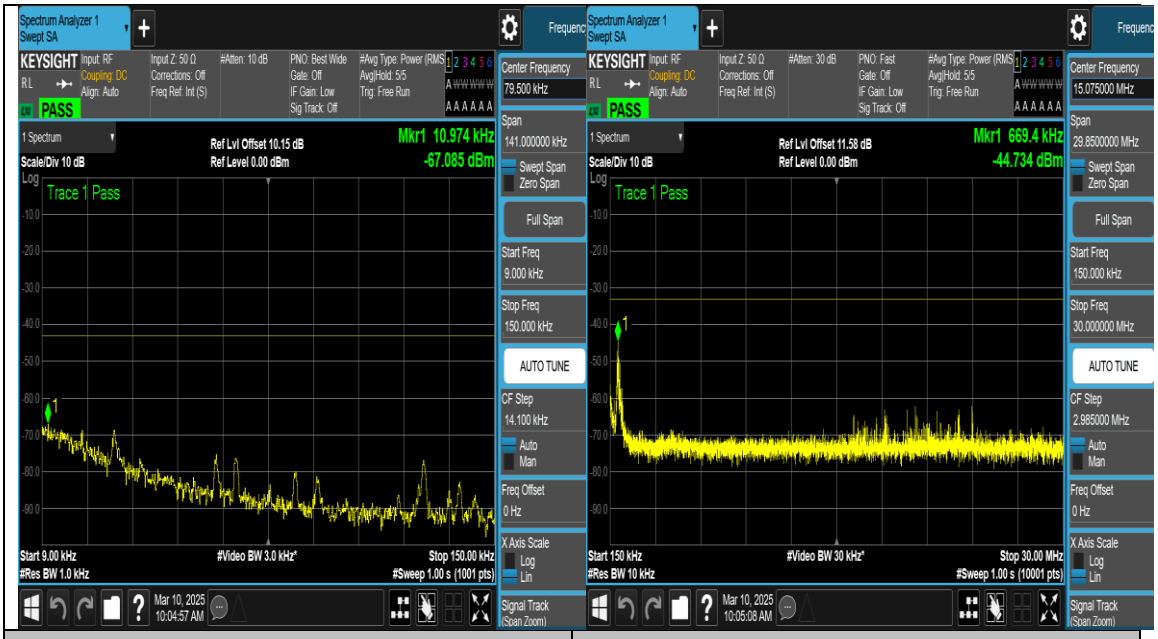
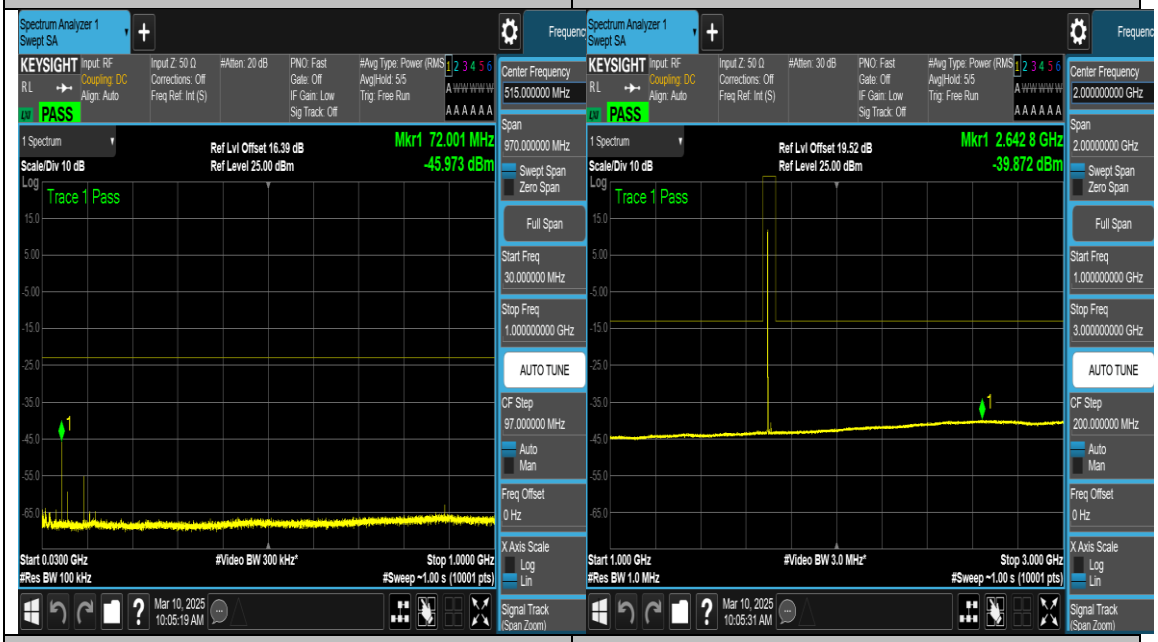
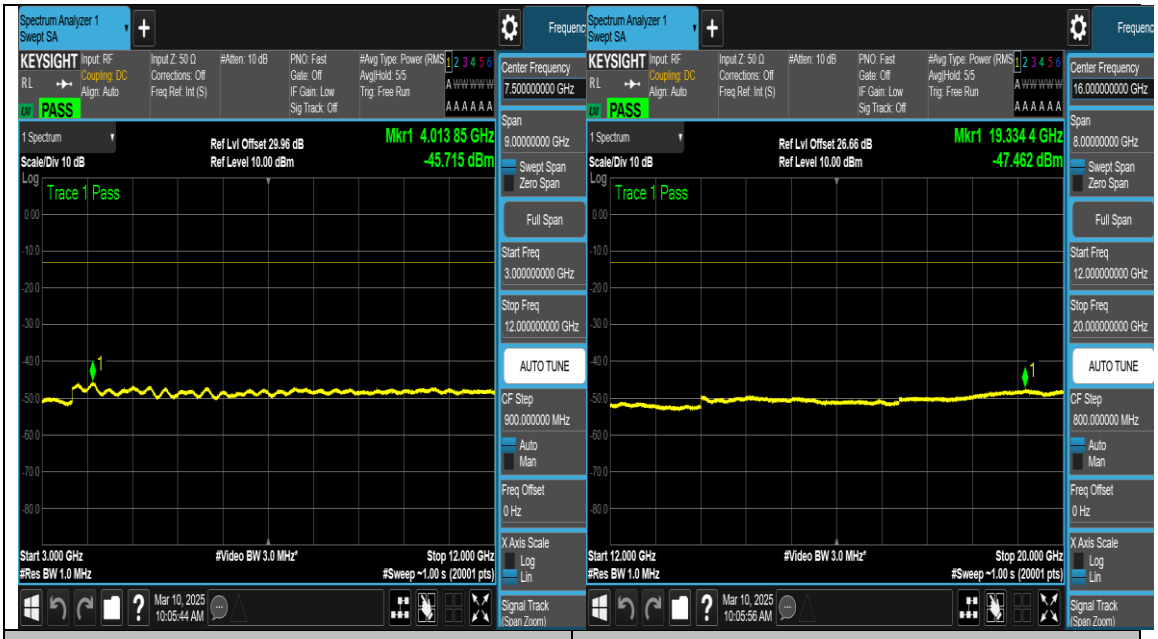


NTNV-N70-PC3-15-15-M-DFT-QPSK-Edge_1RB_ Left-0.009-0.15-Ant1-PASS	NTNV-N70-PC3-15-15-M-DFT-QPSK-Edge_1RB_ Left-0.15-30-Ant1-PASS

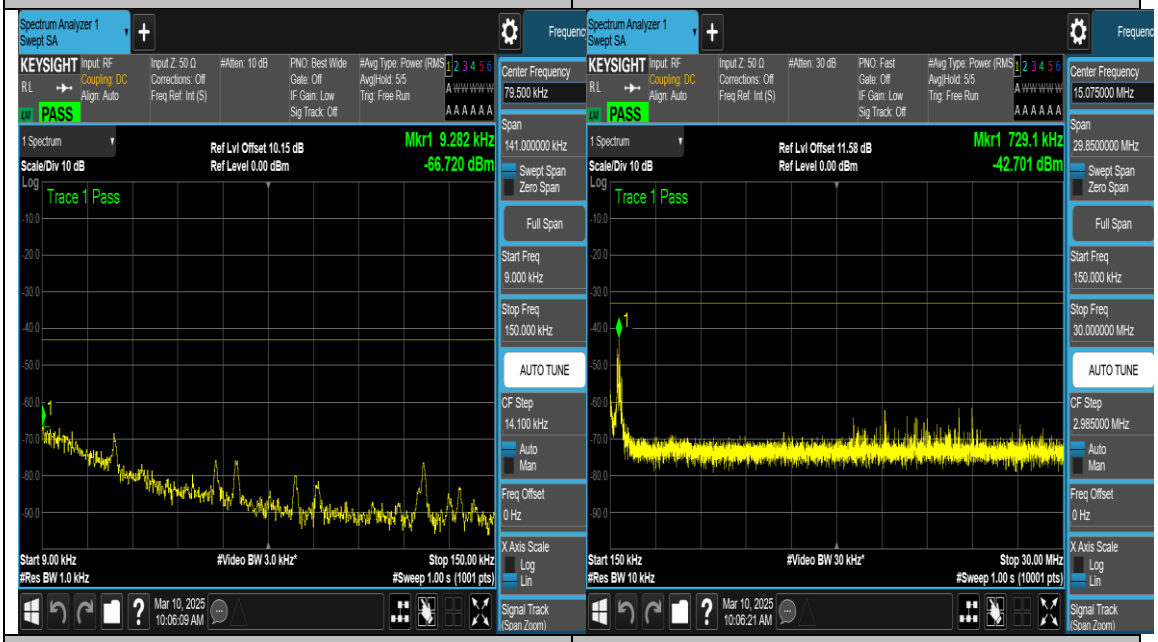


NTNV-N70-PC3-15-15-M-DFT-QPSK-Edge_1RB_ Left-30-1000-Ant1-PASS	NTNV-N70-PC3-15-15-M-DFT-QPSK-Edge_1RB_ Left-1000-3000-Ant1-PASS



NTNV-N70-PC3-15-15-M-DFT-QPSK-Edge_1RB_ Left-3000-12000-Ant1-PASS

NTNV-N70-PC3-15-15-M-DFT-QPSK-Edge_1RB_ Left-12000-20000-Ant1-PASS



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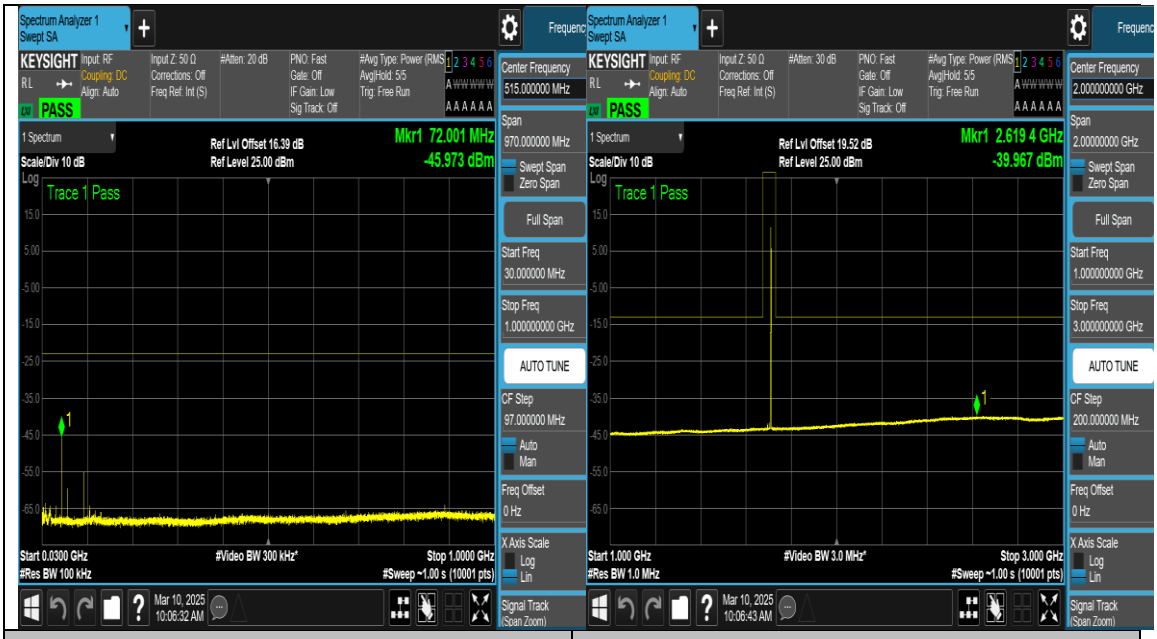
NTNV-N70-PC3-15-15-M-DFT-QPSK-Edge_1RB_ Right-0.15-30-Ant1-PASS



NTNV-N70-PC3-15-15-M-DFT-QPSK-Edge_1RB_ Right-30-1000-Ant1-PASS

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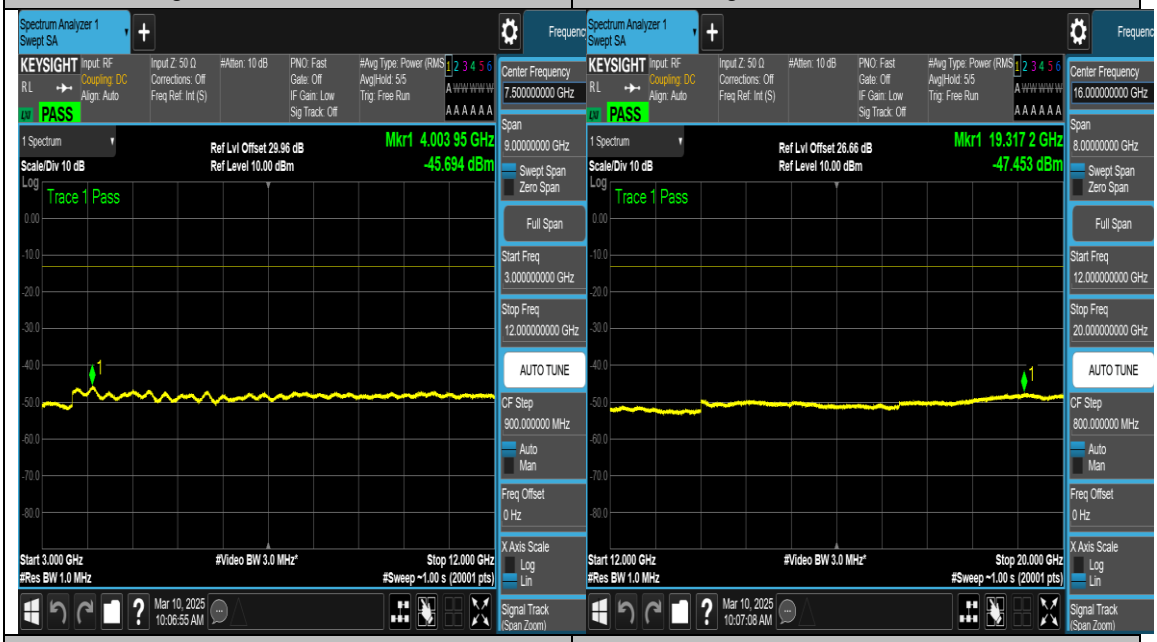

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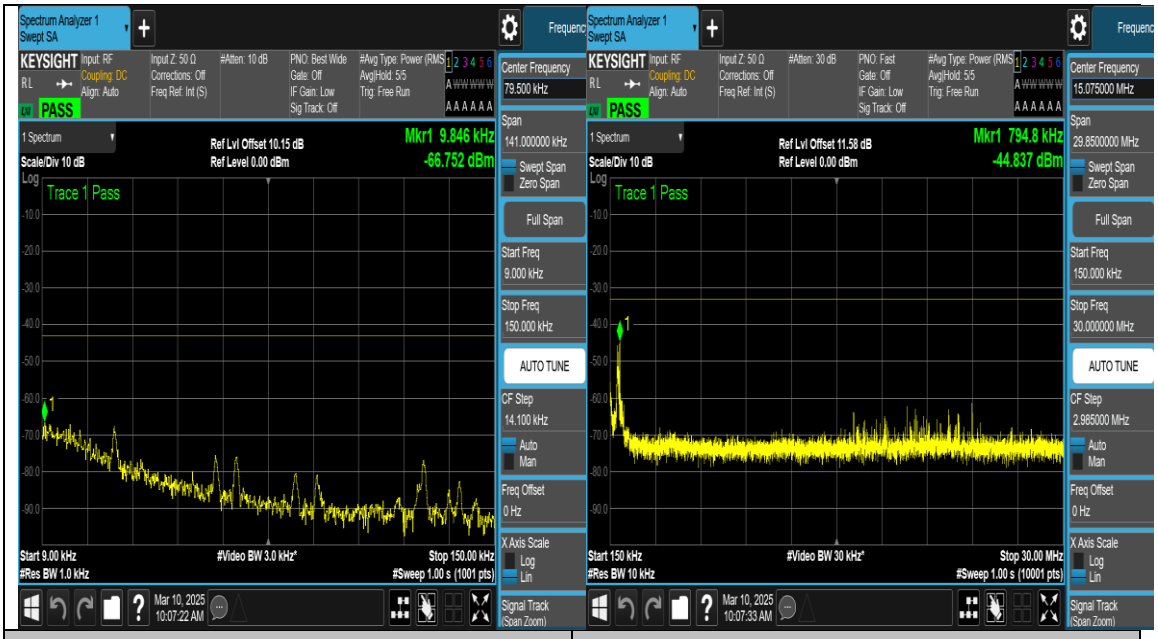

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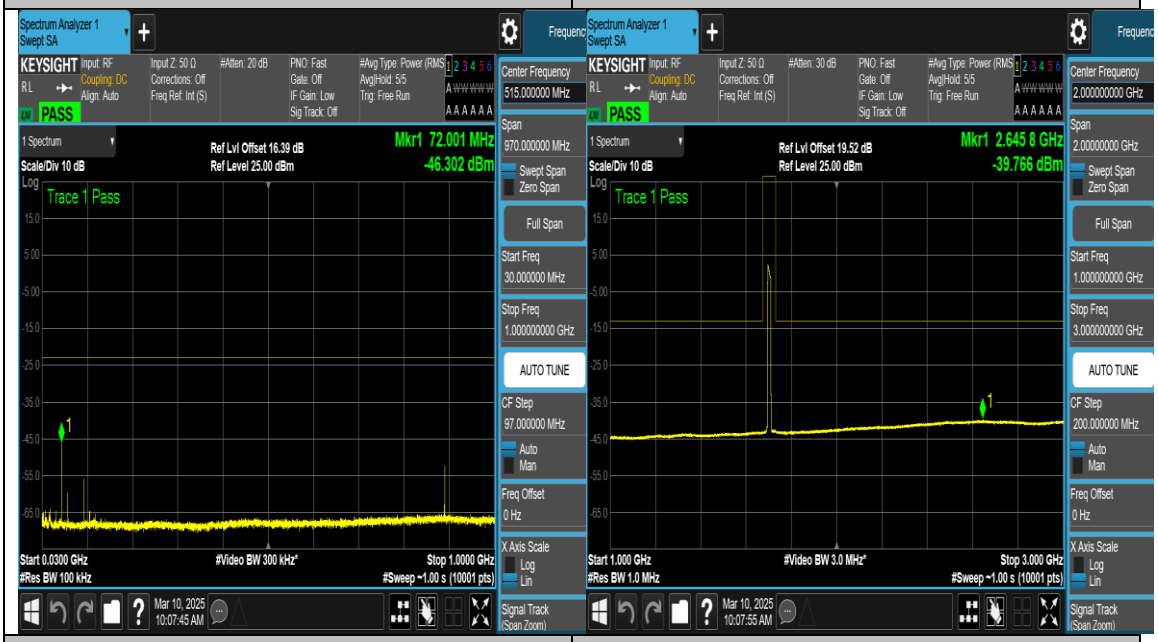
NTNV-N70-PC3-15-15-H-DFT-QPSK-Outer_Full-0.15-30-Ant1-PASS



NTNV-N70-PC3-15-15-H-DFT-QPSK-Outer_Full-30-1000-Ant1-PASS

NTNV-N70-PC3-15-15-H-DFT-QPSK-Outer_Full-1000-3000-Ant1-PASS