

APPENDIX Q 5G NR N41 RF TEST DATA

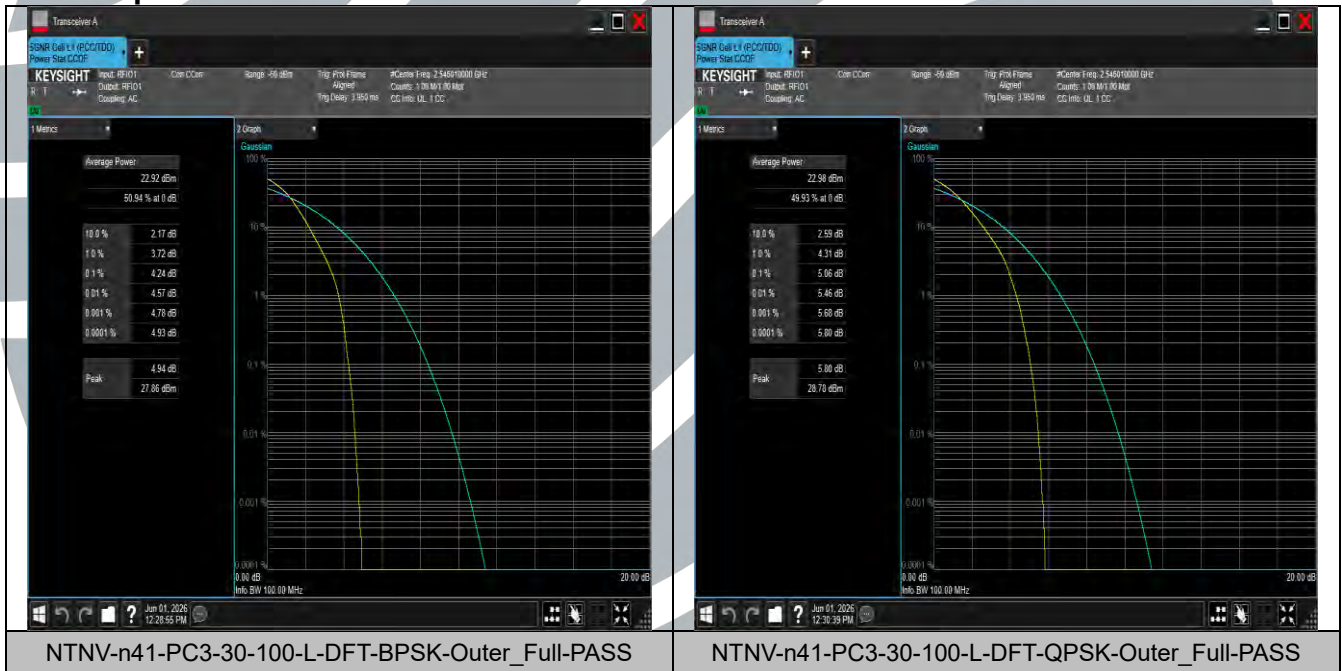
Q.1 PEAK-TO-AVERAGE RATIO FOR SA

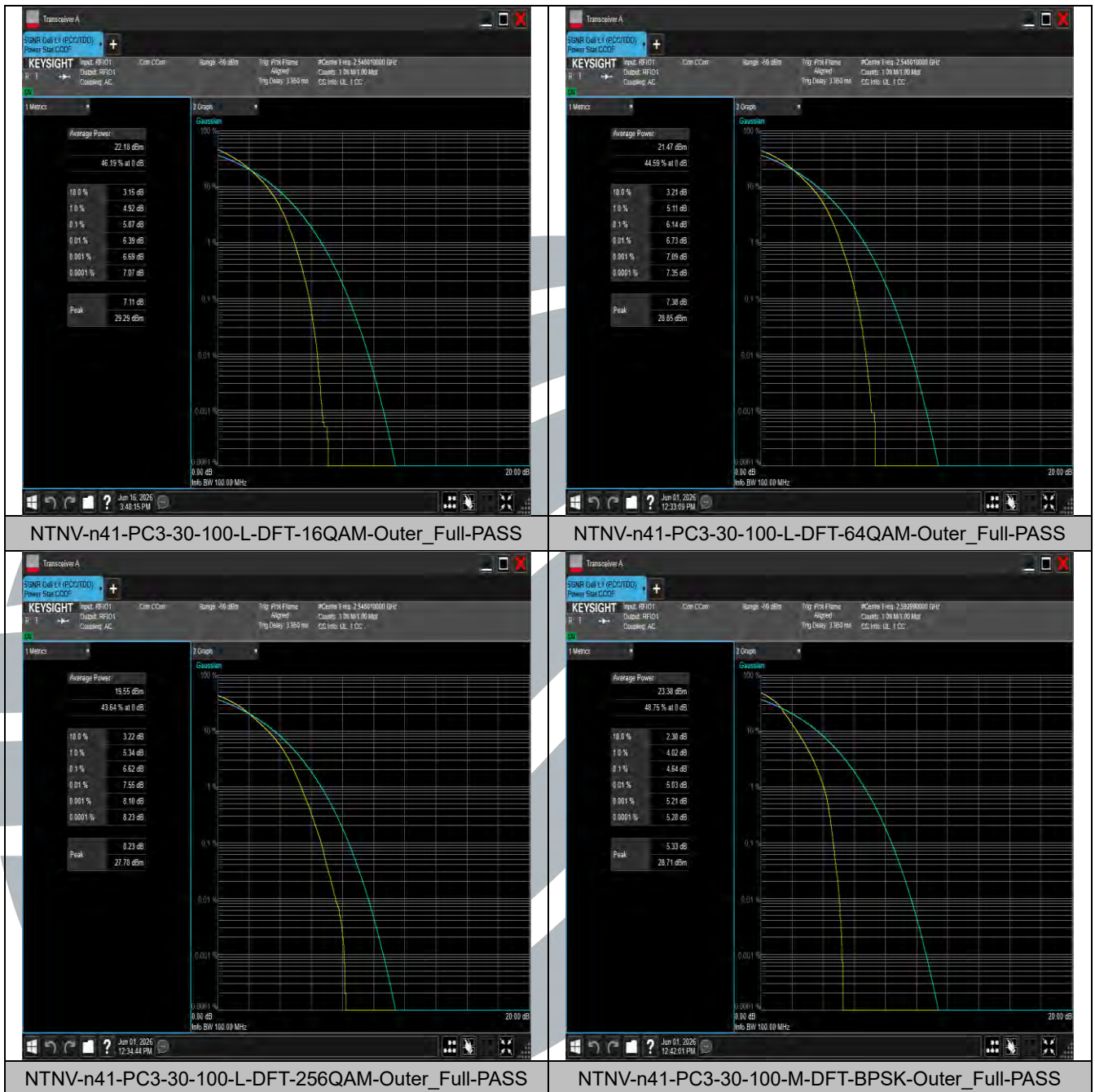
➤ Peak-to-Average Ratio(CCDF)

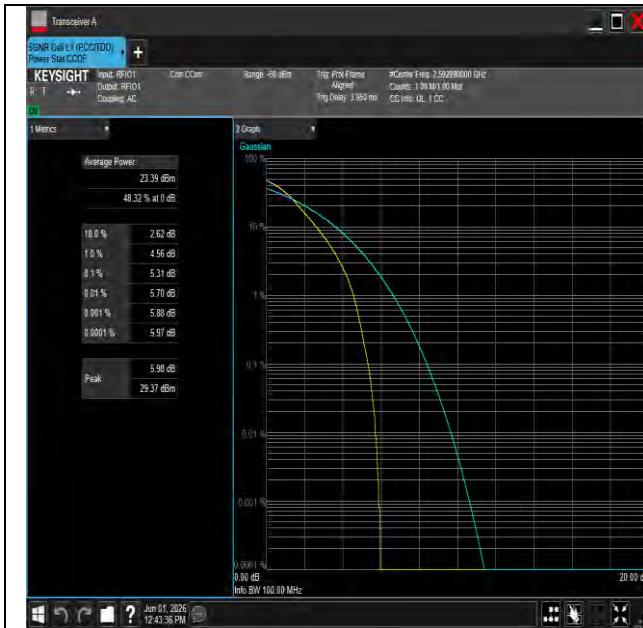
Test Result

Band	SCS (kHz)	BW (MHz)	Modulation	Channel	RB Config	Result (dBm)	Limit	Verdict
n41	30	100	DFT-BPSK	L	Outer Full	4.24	≤13dB	PASS
n41	30	100	DFT-QPSK	L	Outer Full	5.06	≤13dB	PASS
n41	30	100	DFT-16QAM	L	Outer Full	5.87	≤13dB	PASS
n41	30	100	DFT-64QAM	L	Outer Full	6.14	≤13dB	PASS
n41	30	100	DFT-256QAM	L	Outer Full	6.62	≤13dB	PASS
n41	30	100	DFT-BPSK	M	Outer Full	4.64	≤13dB	PASS
n41	30	100	DFT-QPSK	M	Outer Full	5.31	≤13dB	PASS
n41	30	100	DFT-16QAM	M	Outer Full	6.01	≤13dB	PASS
n41	30	100	DFT-64QAM	M	Outer Full	6.28	≤13dB	PASS
n41	30	100	DFT-256QAM	M	Outer Full	6.79	≤13dB	PASS
n41	30	100	DFT-BPSK	H	Outer Full	5.27	≤13dB	PASS
n41	30	100	DFT-QPSK	H	Outer Full	5.59	≤13dB	PASS
n41	30	100	DFT-16QAM	H	Outer Full	6.07	≤13dB	PASS
n41	30	100	DFT-64QAM	H	Outer Full	6.4	≤13dB	PASS
n41	30	100	DFT-256QAM	H	Outer Full	6.81	≤13dB	PASS

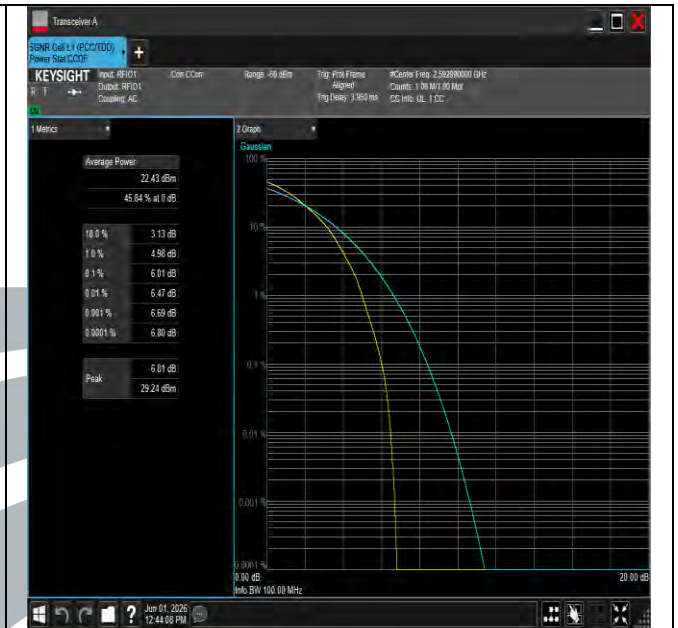
Test Graphs



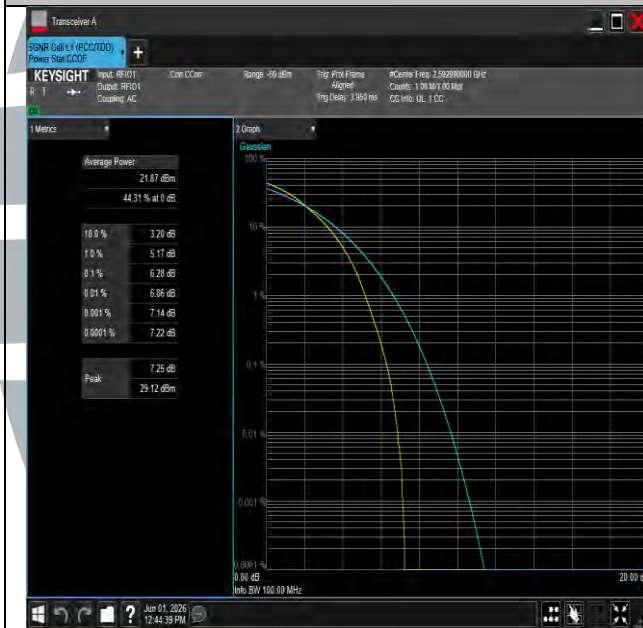




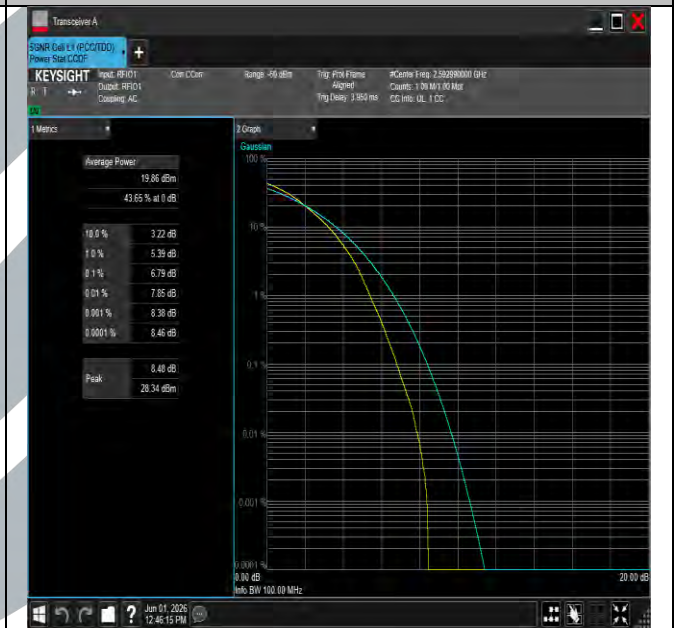
NTNV-n41-PC3-30-100-M-DFT-QPSK-Outter_Full-PASS



NTNV-n41-PC3-30-100-M-DFT-16QAM-Outter_Full-PASS



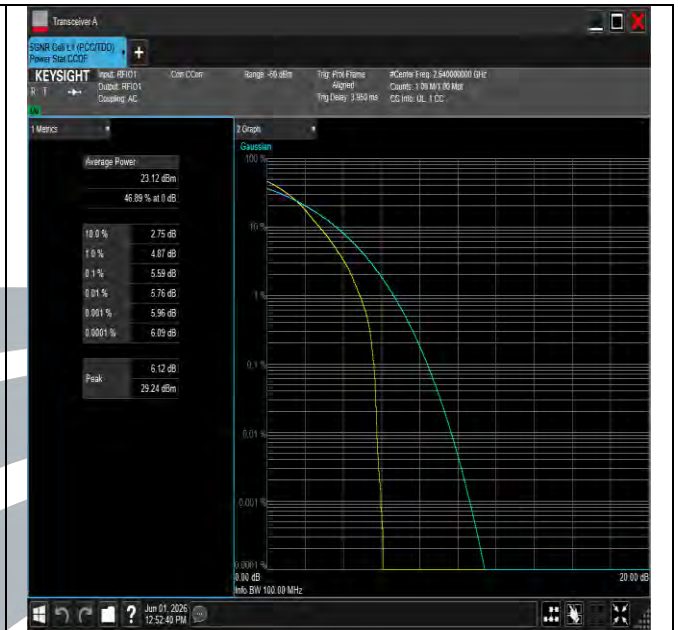
NTNV-n41-PC3-30-100-M-DFT-64QAM-Outter_Full-PASS



NTNV-n41-PC3-30-100-M-DFT-256QAM-Outter_Full-PASS



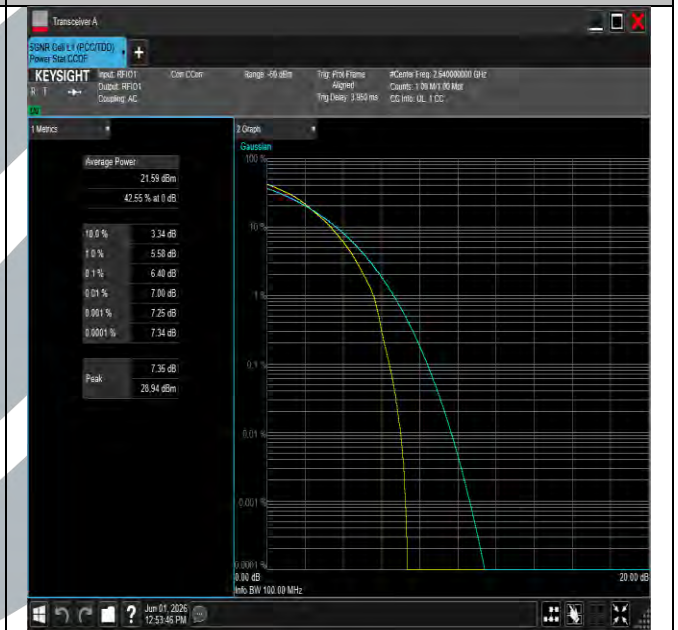
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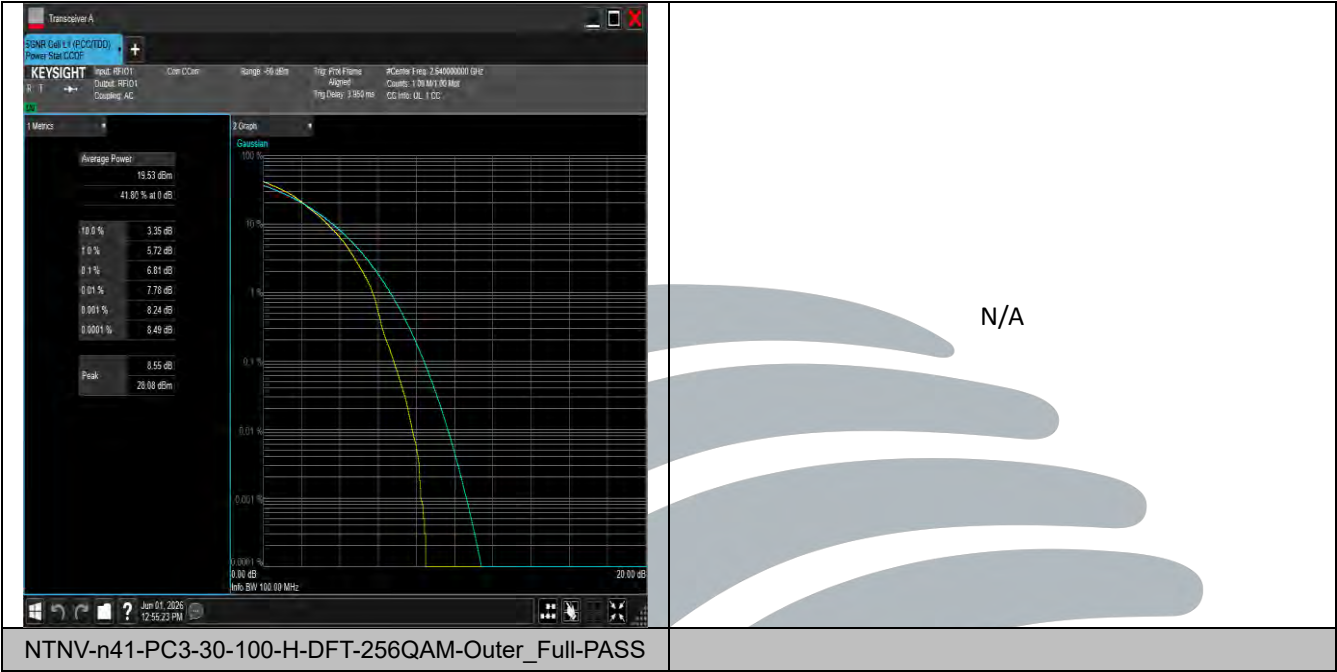
NTNV-n41-PC3-30-100-H-DFT-QPSK-Outer_Full-PASS



NTNV-n41-PC3-30-100-H-DFT-16QAM-Outer_Full-PASS



NTNV-n41-PC3-30-100-H-DFT-64QAM-Outer_Full-PASS

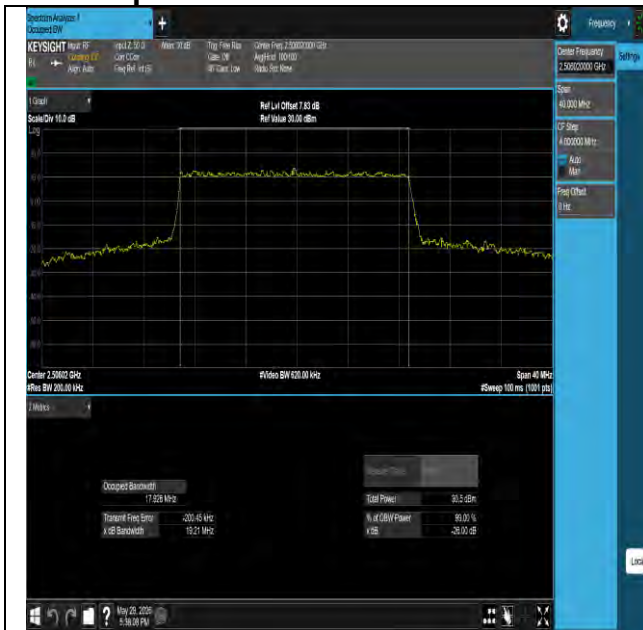


Q.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA

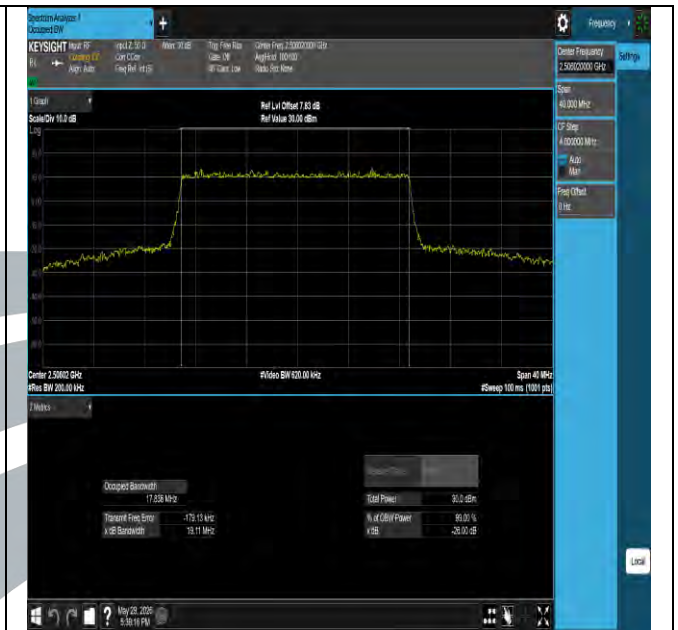
Test Result

Band	SCS (kHz)	BW (MHz)	Modulation	Ch.	RB Config	99% BW Result (MHz)	26dB BW Result (MHz)	Verdict
n41	30	20	DFT-QPSK	L	Outer Full	17.850	19.08	PASS
n41	30	20	DFT-16QAM	L	Outer Full	17.926	19.21	PASS
n41	30	20	DFT-QPSK	M	Outer Full	17.910	23.23	PASS
n41	30	20	DFT-16QAM	M	Outer Full	17.935	19.28	PASS
n41	30	20	DFT-QPSK	H	Outer Full	17.850	19.12	PASS
n41	30	20	DFT-16QAM	H	Outer Full	17.897	19.10	PASS
n41	30	30	DFT-QPSK	L	Outer Full	26.815	28.29	PASS
n41	30	30	DFT-16QAM	L	Outer Full	26.865	28.44	PASS
n41	30	30	DFT-QPSK	M	Outer Full	26.889	32.19	PASS
n41	30	30	DFT-16QAM	M	Outer Full	26.884	29.89	PASS
n41	30	30	DFT-QPSK	H	Outer Full	26.843	28.39	PASS
n41	30	30	DFT-16QAM	H	Outer Full	26.851	28.35	PASS
n41	30	40	DFT-QPSK	L	Outer Full	35.708	37.72	PASS
n41	30	40	DFT-16QAM	L	Outer Full	35.737	37.56	PASS
n41	30	40	DFT-QPSK	M	Outer Full	35.807	40.71	PASS
n41	30	40	DFT-16QAM	M	Outer Full	35.806	38.40	PASS
n41	30	40	DFT-QPSK	H	Outer Full	35.668	37.57	PASS
n41	30	40	DFT-16QAM	H	Outer Full	35.724	37.45	PASS
n41	30	50	DFT-QPSK	L	Outer Full	45.839	47.66	PASS
n41	30	50	DFT-16QAM	L	Outer Full	45.910	47.81	PASS
n41	30	50	DFT-QPSK	M	Outer Full	45.874	55.47	PASS
n41	30	50	DFT-16QAM	M	Outer Full	45.901	47.63	PASS
n41	30	50	DFT-QPSK	H	Outer Full	45.699	47.70	PASS
n41	30	50	DFT-16QAM	H	Outer Full	45.757	47.49	PASS
n41	30	60	DFT-QPSK	L	Outer Full	57.878	60.30	PASS
n41	30	60	DFT-16QAM	L	Outer Full	57.919	60.15	PASS
n41	30	60	DFT-QPSK	M	Outer Full	57.970	66.69	PASS
n41	30	60	DFT-16QAM	M	Outer Full	57.948	60.17	PASS
n41	30	60	DFT-QPSK	H	Outer Full	57.722	60.09	PASS
n41	30	60	DFT-16QAM	H	Outer Full	57.700	60.05	PASS
n41	30	70	DFT-QPSK	L	Outer Full	64.240	66.70	PASS
n41	30	70	DFT-16QAM	L	Outer Full	64.254	66.79	PASS
n41	30	70	DFT-QPSK	M	Outer Full	64.402	66.80	PASS
n41	30	70	DFT-16QAM	M	Outer Full	64.234	66.56	PASS
n41	30	70	DFT-QPSK	H	Outer Full	64.036	66.55	PASS
n41	30	70	DFT-16QAM	H	Outer Full	64.081	66.51	PASS
n41	30	80	DFT-QPSK	L	Outer Full	77.077	79.97	PASS
n41	30	80	DFT-16QAM	L	Outer Full	77.133	80.00	PASS
n41	30	80	DFT-QPSK	M	Outer Full	77.172	79.96	PASS
n41	30	80	DFT-16QAM	M	Outer Full	77.209	79.91	PASS
n41	30	80	DFT-QPSK	H	Outer Full	77.027	79.81	PASS
n41	30	80	DFT-16QAM	H	Outer Full	76.960	79.80	PASS
n41	30	90	DFT-QPSK	L	Outer Full	86.522	89.70	PASS
n41	30	90	DFT-16QAM	L	Outer Full	86.656	89.91	PASS
n41	30	90	DFT-QPSK	M	Outer Full	86.687	89.72	PASS
n41	30	90	DFT-16QAM	M	Outer Full	86.763	89.74	PASS
n41	30	90	DFT-QPSK	H	Outer Full	86.537	89.73	PASS
n41	30	90	DFT-16QAM	H	Outer Full	86.674	89.66	PASS
n41	30	100	DFT-QPSK	L	Outer Full	96.182	99.71	PASS
n41	30	100	DFT-16QAM	L	Outer Full	96.378	99.83	PASS
n41	30	100	DFT-QPSK	M	Outer Full	96.374	99.69	PASS
n41	30	100	DFT-16QAM	M	Outer Full	96.516	99.75	PASS
n41	30	100	DFT-QPSK	H	Outer Full	96.260	99.70	PASS
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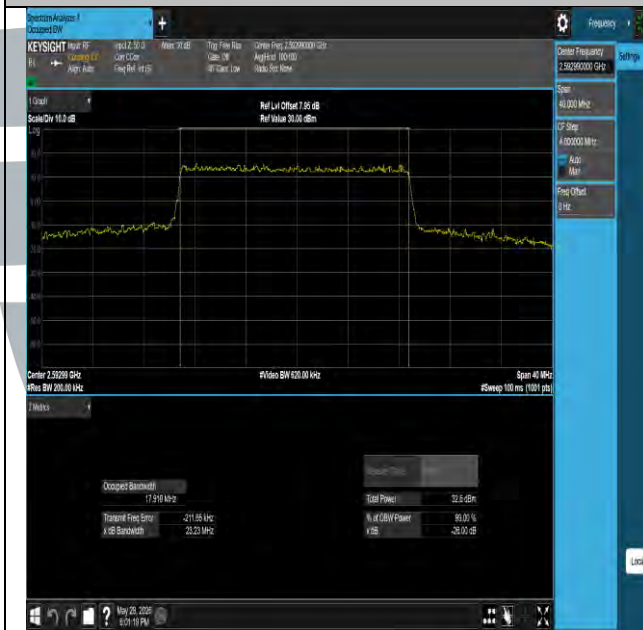
Test Graphs



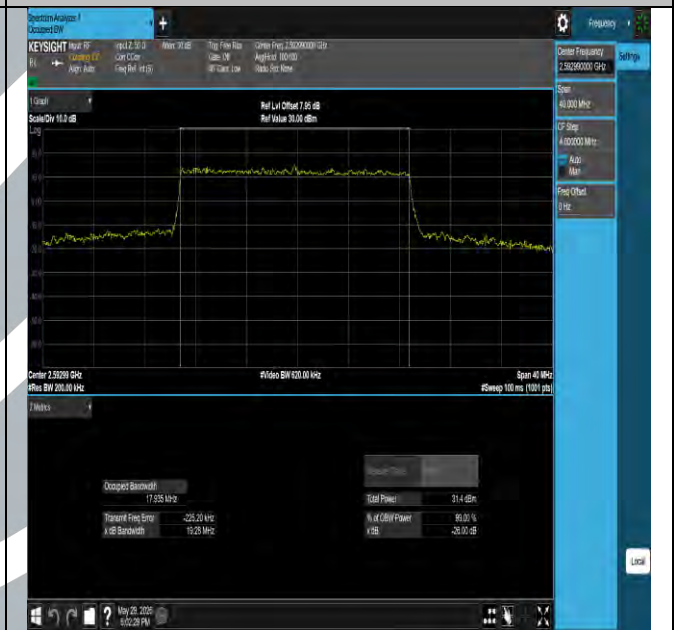
NTNV-n41-PC3-30-20-L-DFT-16QAM-Outet_Full-Ant1-
PASS



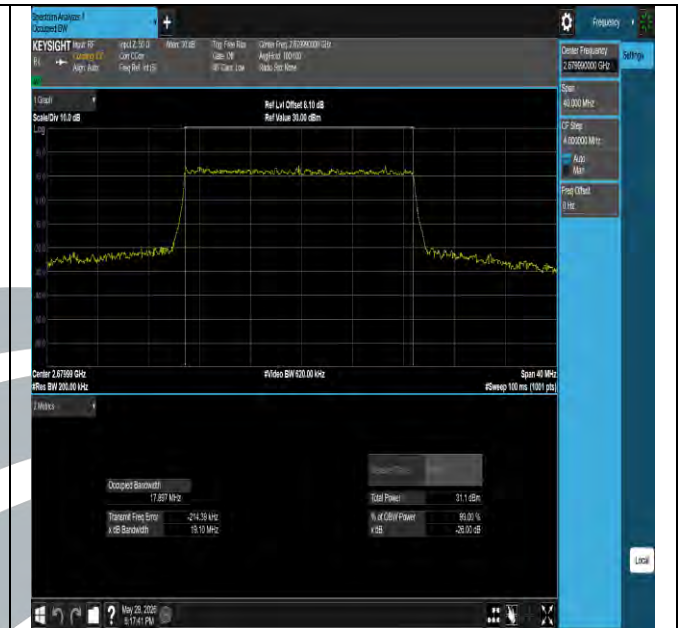
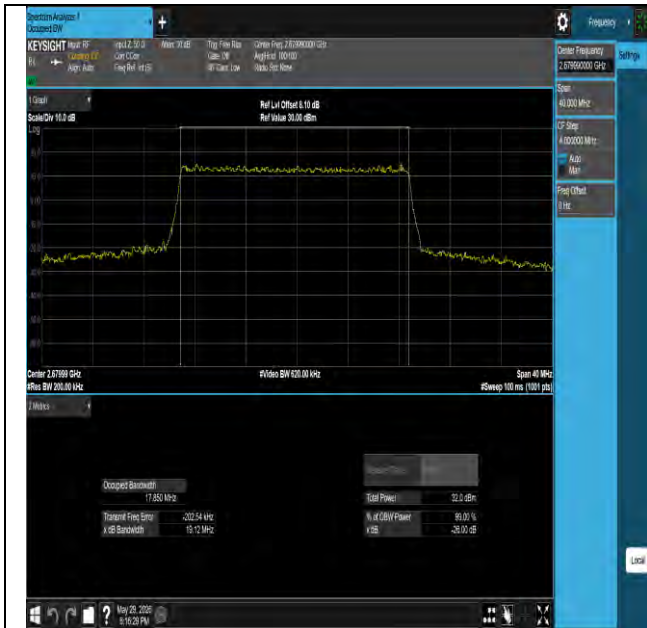
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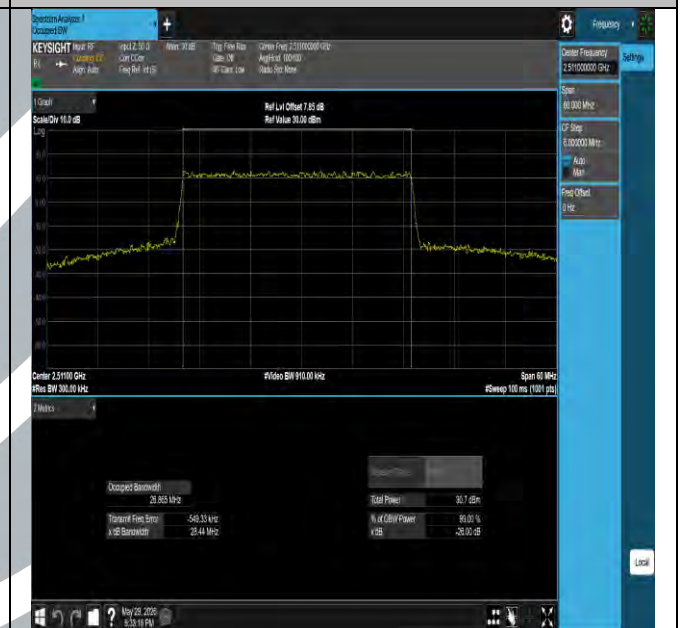
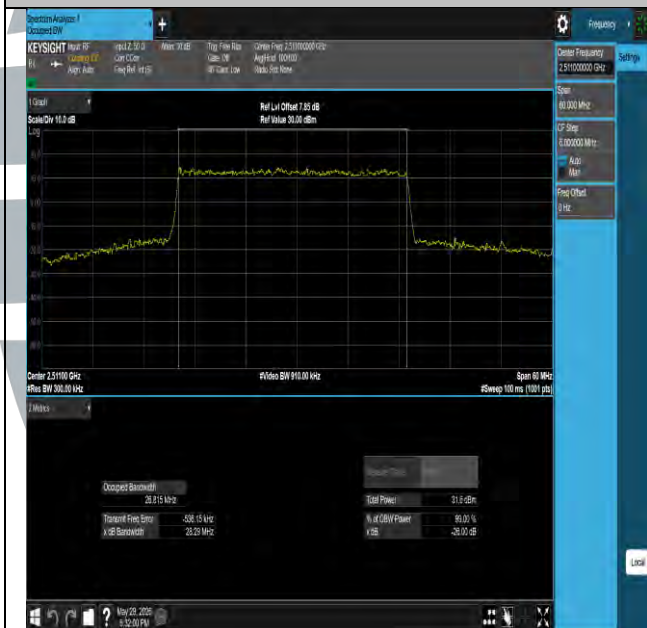


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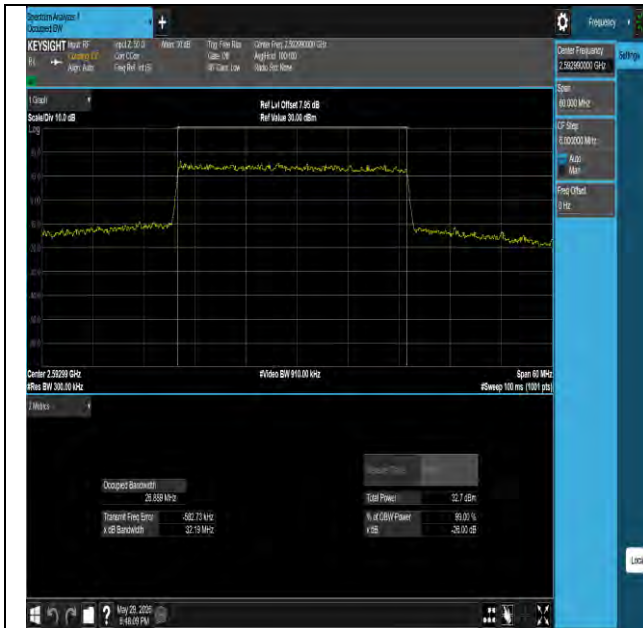
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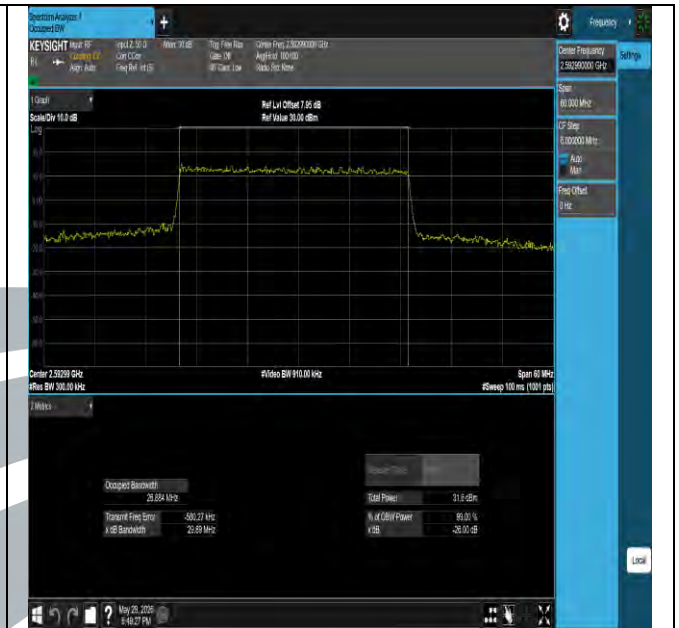


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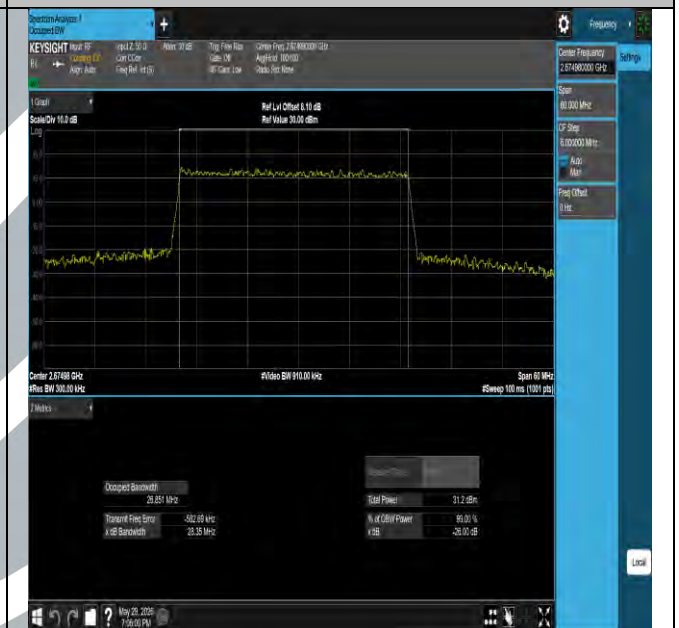
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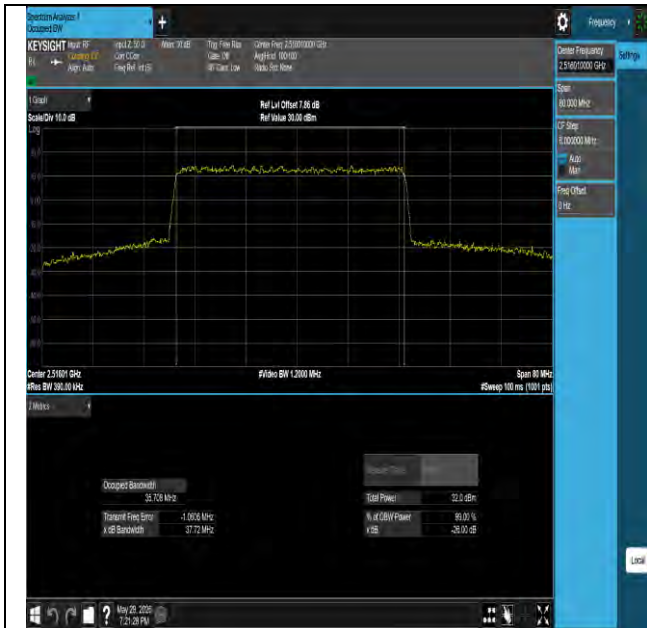
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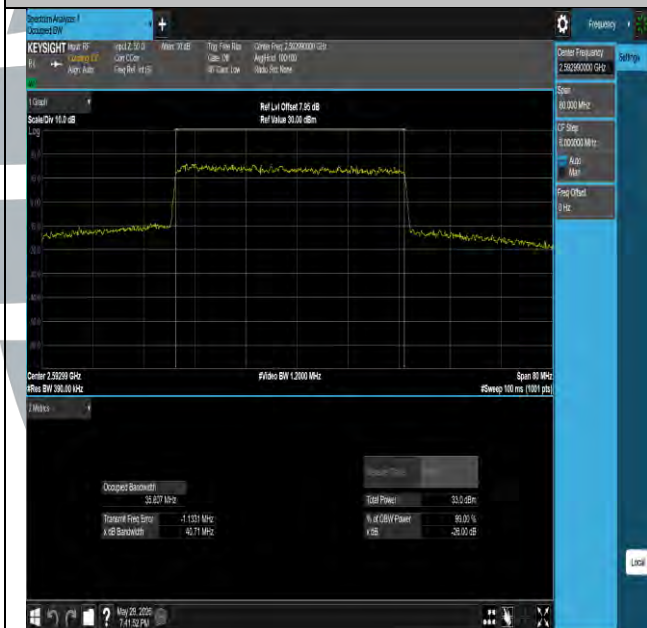
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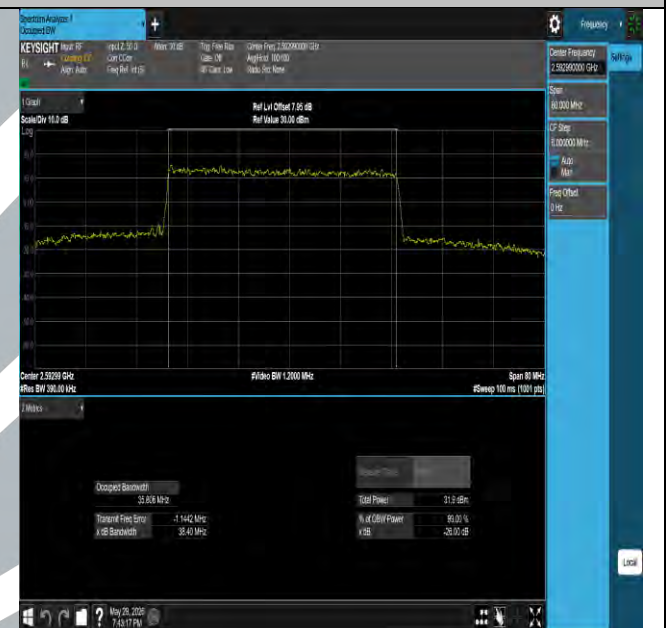
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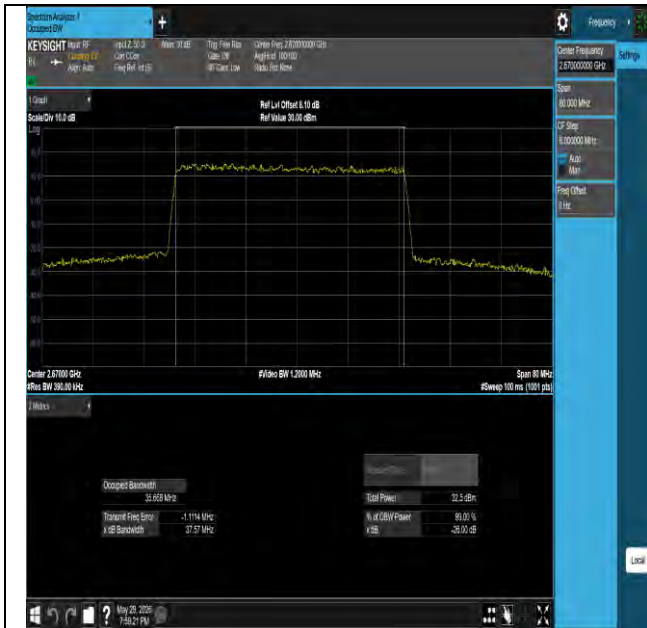
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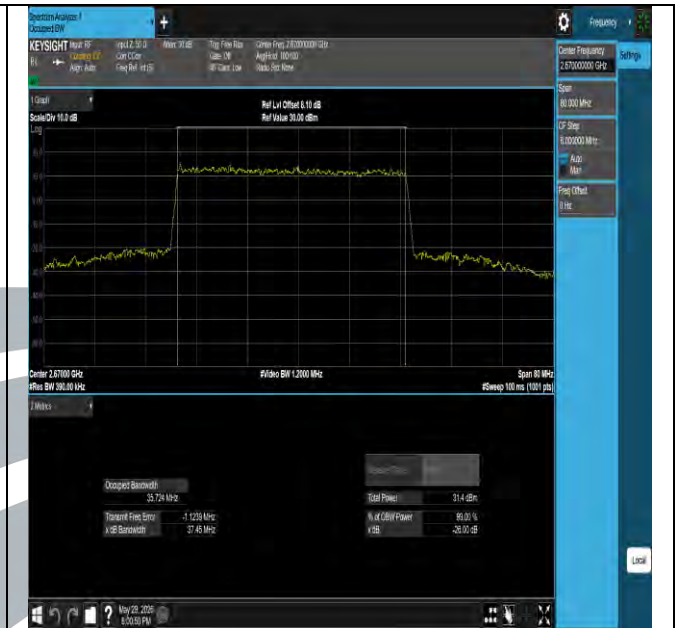
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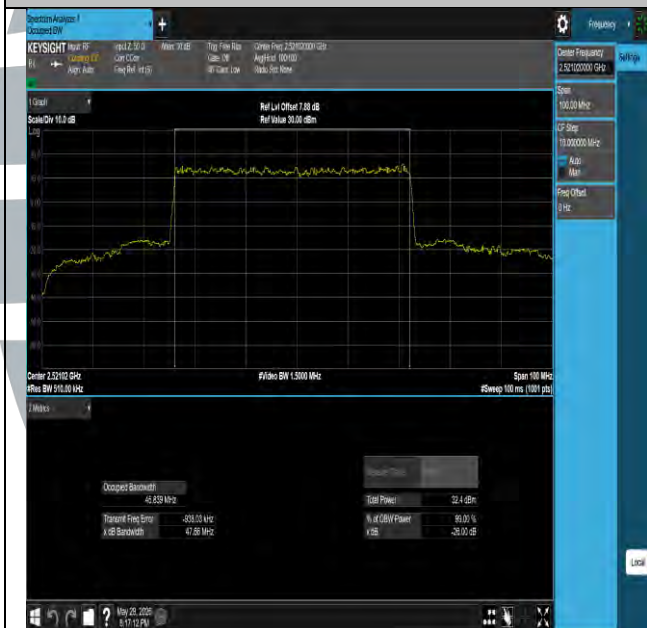
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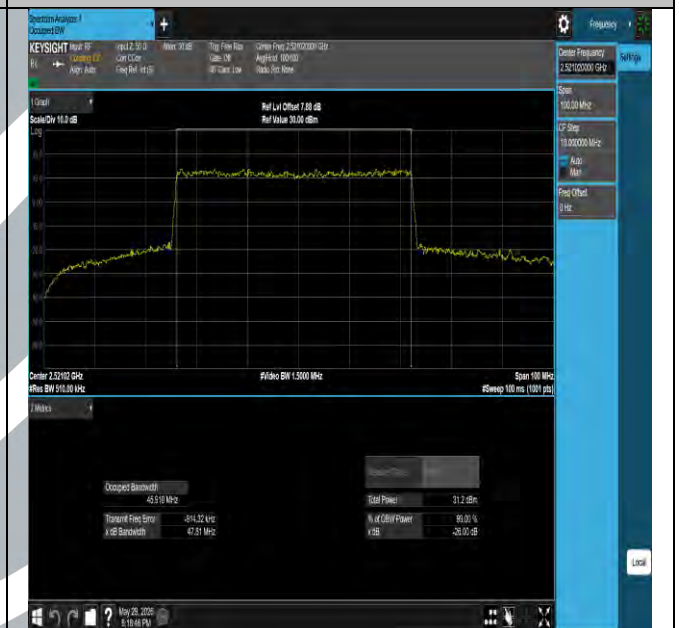
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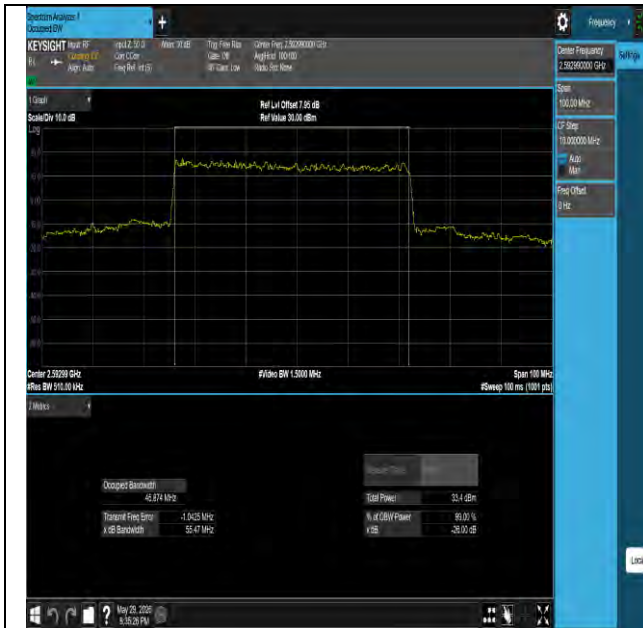
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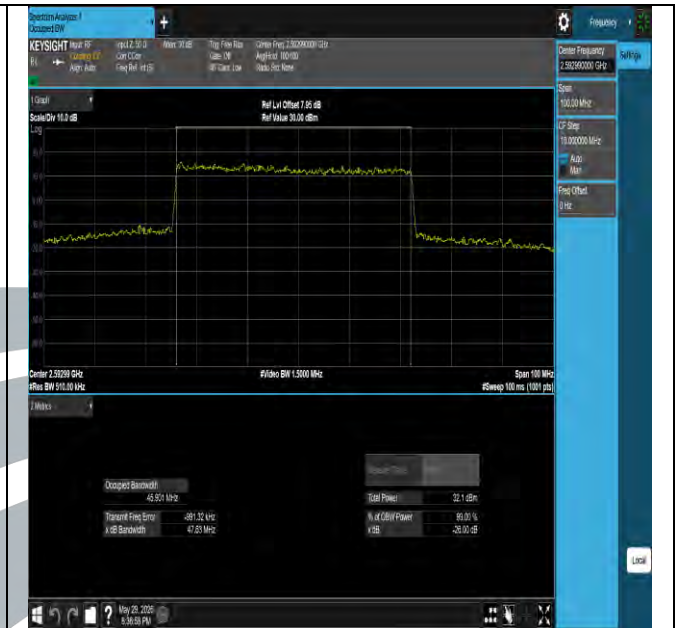
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NTNV-n41-PC3-30-50-M-DFT-QPSK-Outter_Full-Ant1-PASS



NTNV-n41-PC3-30-50-M-DFT-16QAM-Outter_Full-Ant1-PASS



NTNV-n41-PC3-30-50-H-DFT-QPSK-Outter_Full-Ant1-PASS



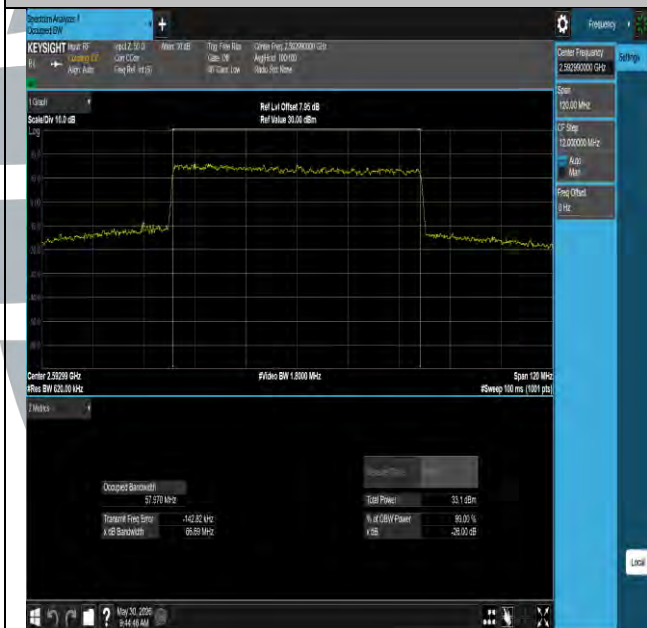
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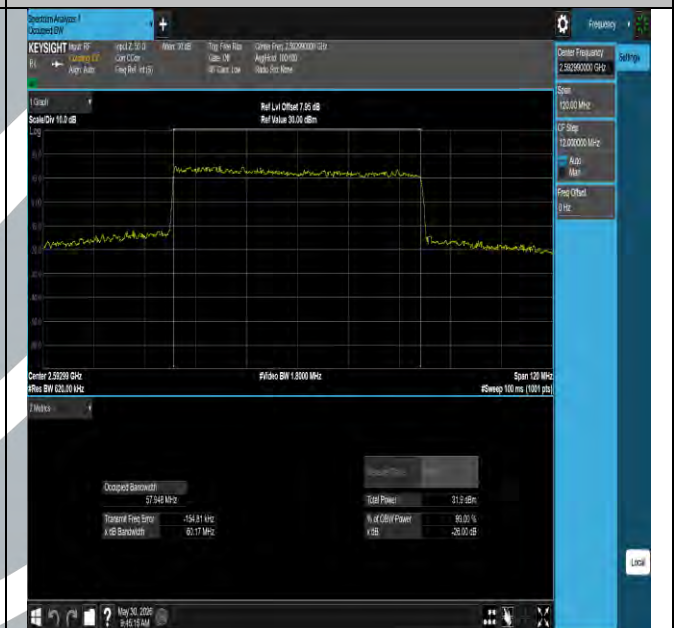
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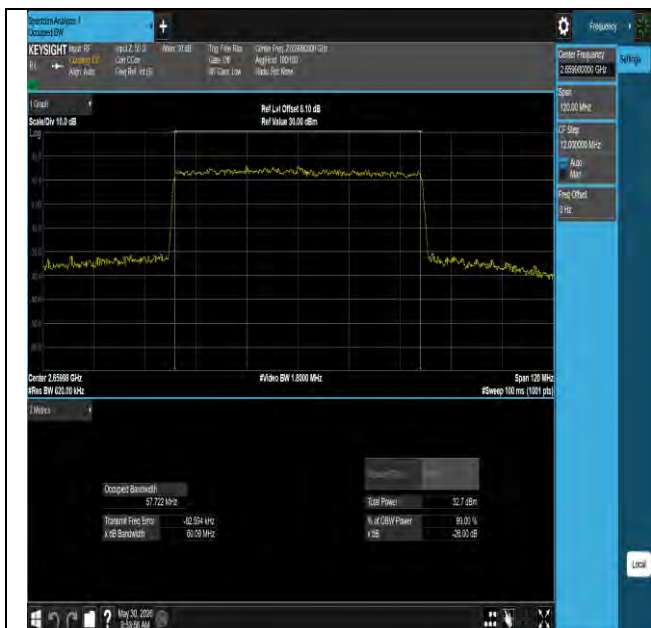
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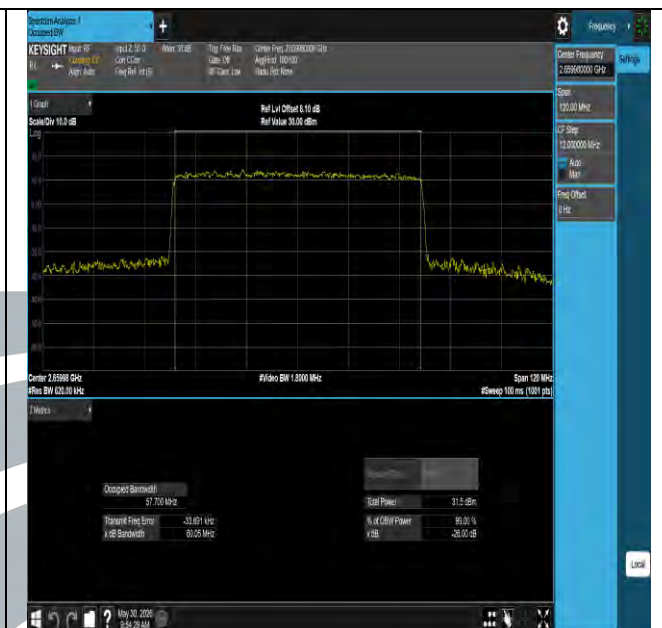
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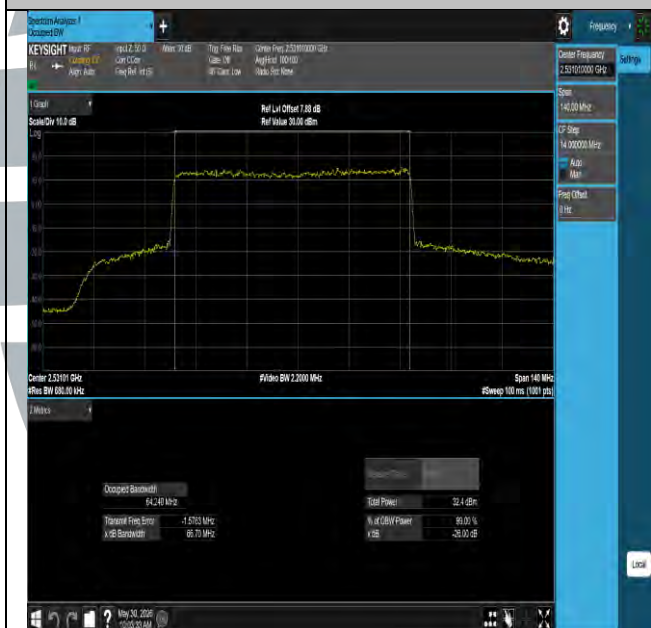
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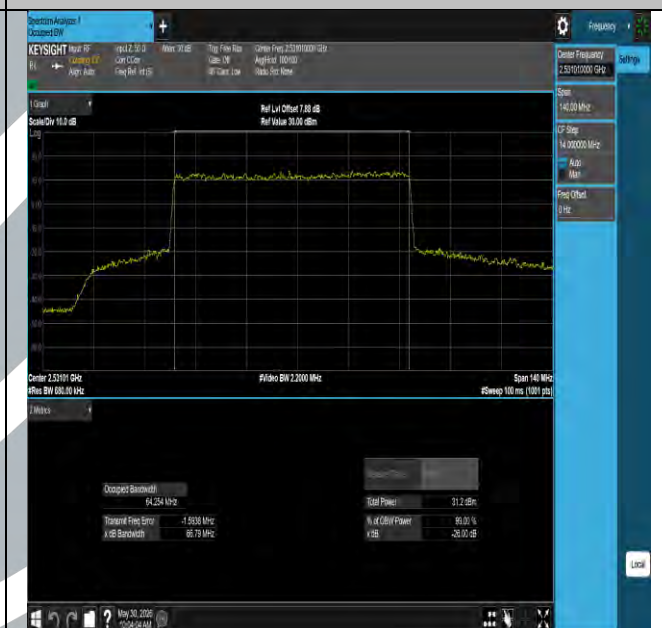
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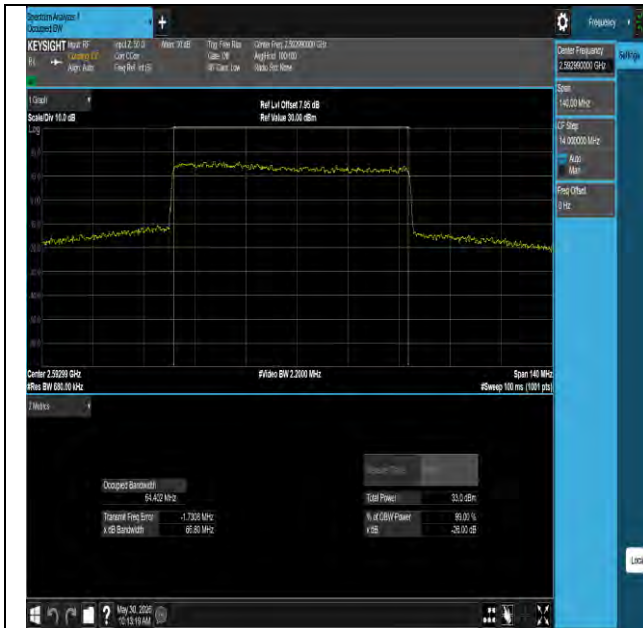
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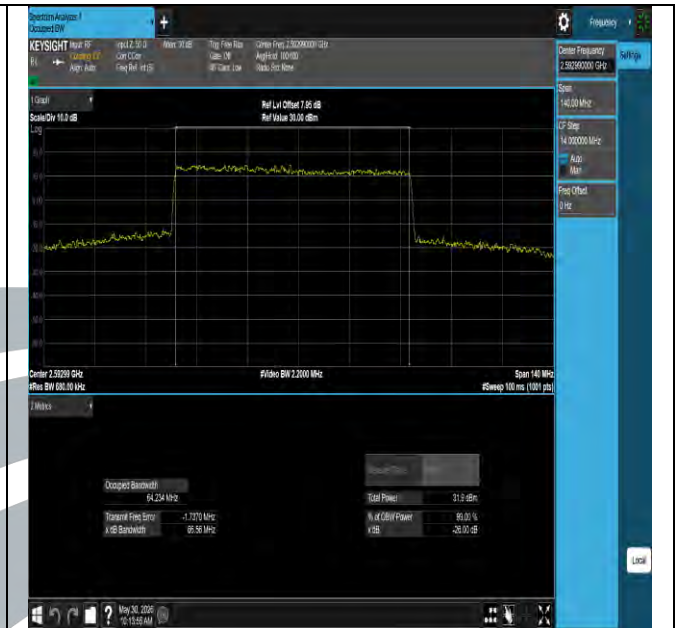
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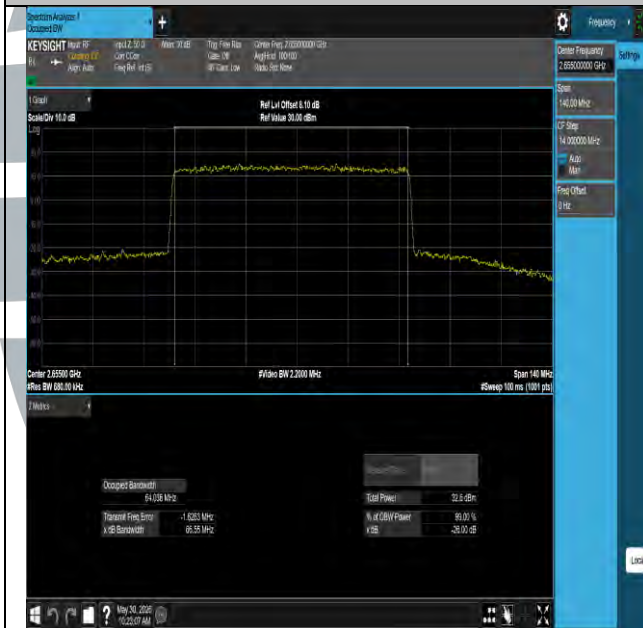
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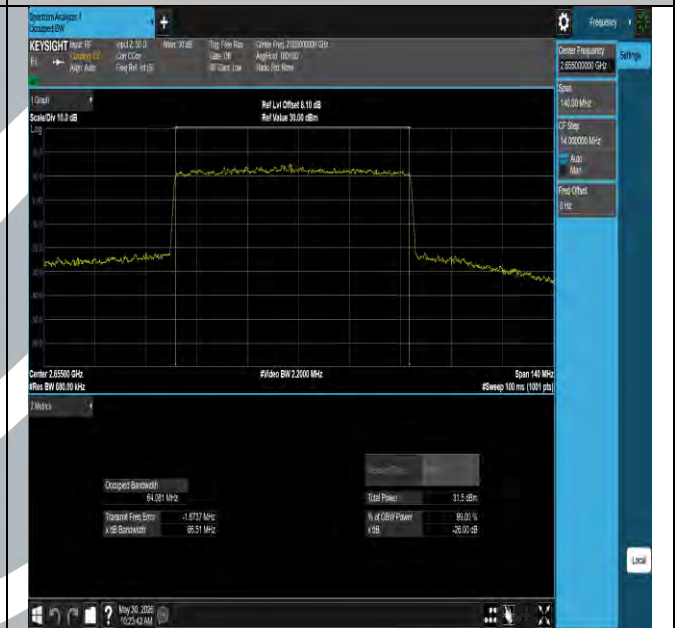
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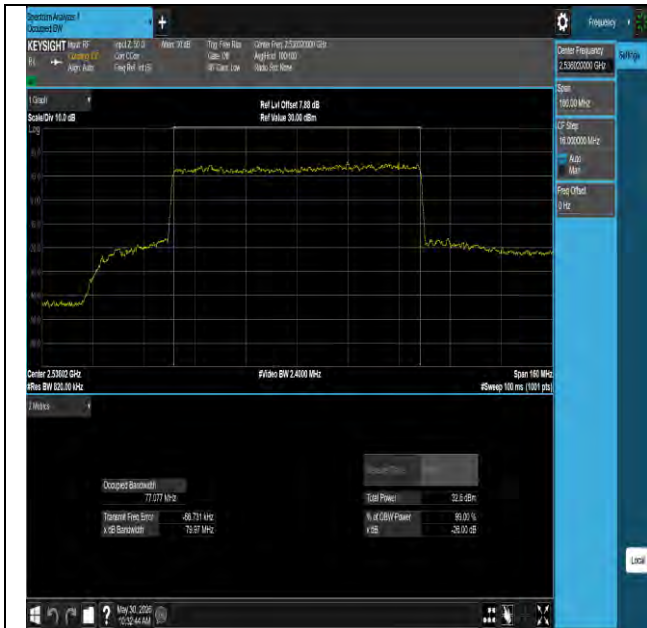
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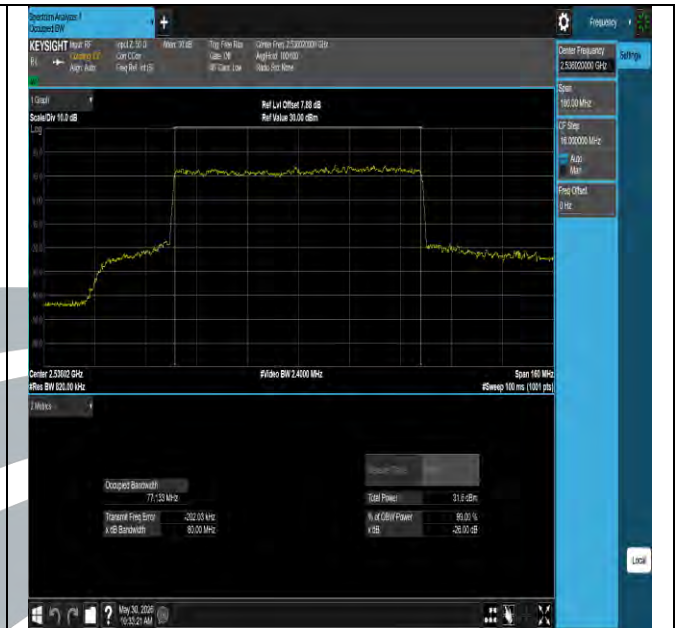
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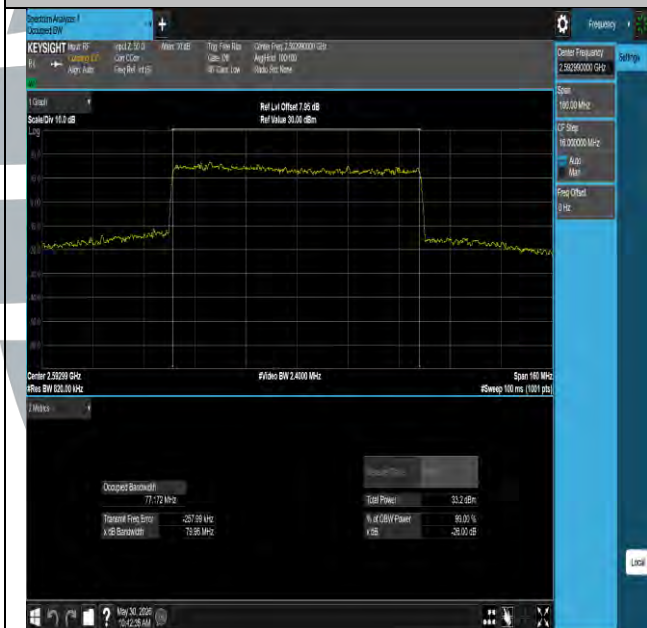
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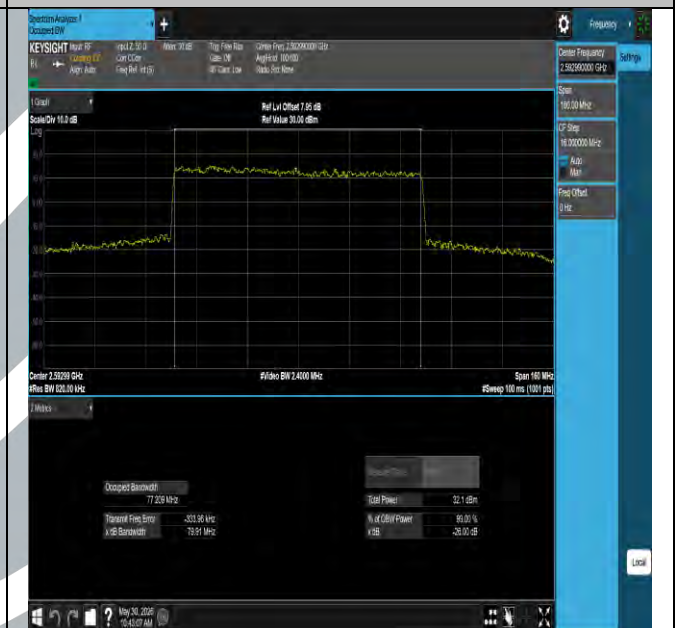
NTNV-n41-PC3-30-80-L-DFT-QPSK-Outet_Full-Ant1-PASS



NTNV-n41-PC3-30-80-L-DFT-16QAM-Outet_Full-Ant1-PASS



NTNV-n41-PC3-30-80-M-DFT-QPSK-Outet_Full-Ant1-PASS



NTNV-n41-PC3-30-80-M-DFT-16QAM-Outet_Full-Ant1-PASS



NTNV-n41-PC3-30-80-H-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-n41-PC3-30-80-H-DFT-16QAM-Outer_Full-Ant1-PASS



NTNV-n41-PC3-30-90-L-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-n41-PC3-30-90-L-DFT-16QAM-Outer_Full-Ant1-PASS



NTNV-n41-PC3-30-90-M-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-n41-PC3-30-90-M-DFT-16QAM-Outer_Full-Ant1-PASS



NTNV-n41-PC3-30-90-H-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-n41-PC3-30-90-H-DFT-16QAM-Outer_Full-Ant1-PASS



NTNV-n41-PC3-30-100-L-DFT-QPSK-Outet_Full-Ant1-
PASS



NTNV-n41-PC3-30-100-L-DFT-16QAM-Outet_Full-Ant1-
PASS



NTNV-n41-PC3-30-100-M-DFT-QPSK-Outet_Full-Ant1-
PASS



NTNV-n41-PC3-30-100-M-DFT-16QAM-Outet_Full-Ant1-
PASS



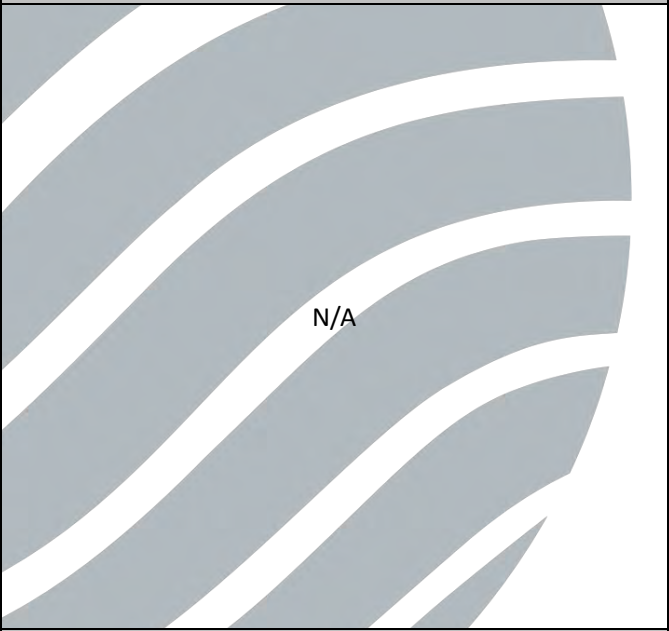
NTNV-n41-PC3-30-100-H-DFT-QPSK-Outer_Full-Ant1-
PASS



NTNV-n41-PC3-30-100-H-DFT-16QAM-Outer_Full-Ant1-
PASS



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PASS



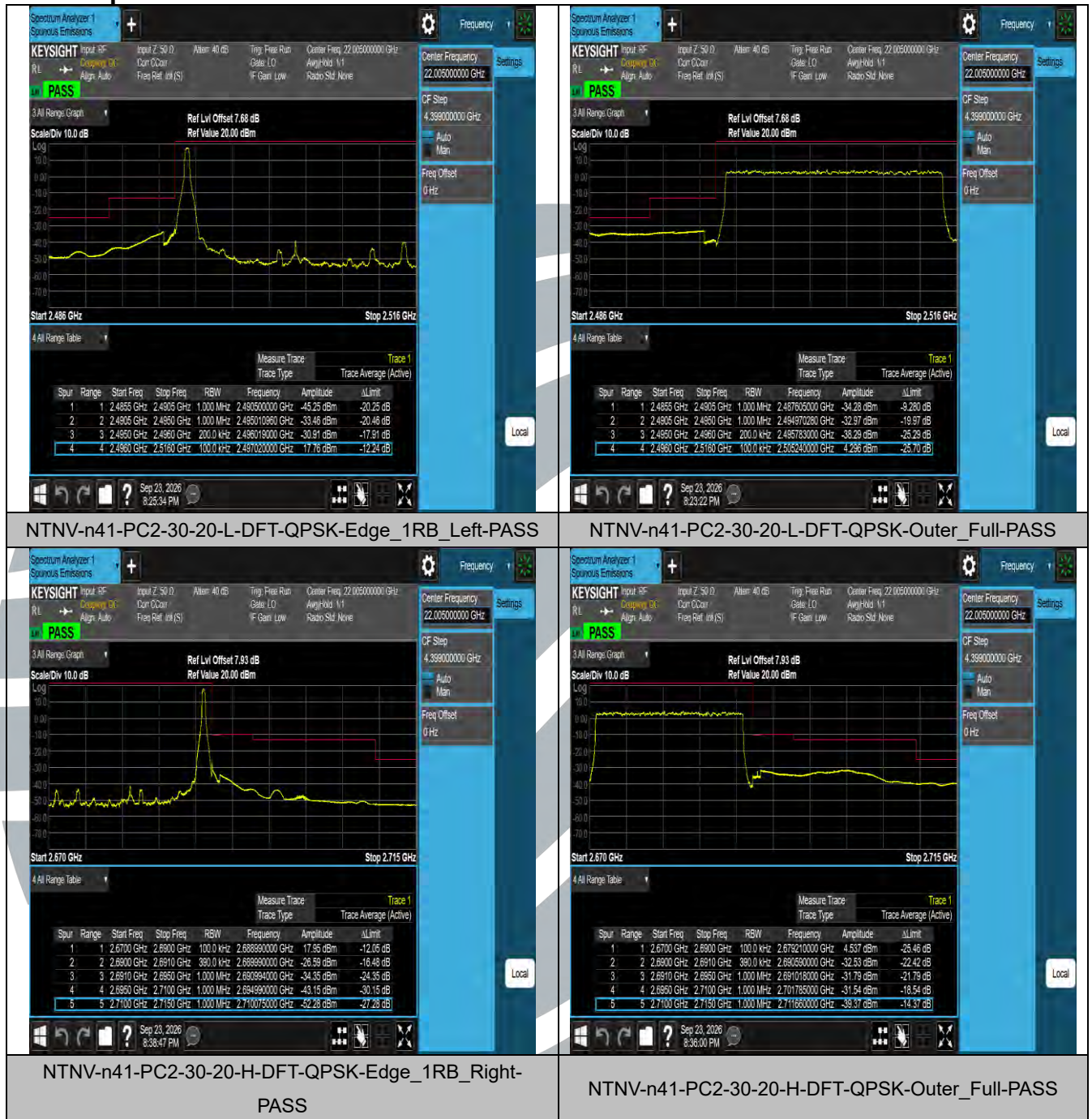
N/A

Q.3 BAND EDGE FOR SA

Test Result

Band	SCS (kHz)	BW (MHz)	Modulation	Channel	RB Config	Result (dBm)	Verdict
n41	30	20	DFT-QPSK	L	Edge 1RB Left	-30.91	PASS
n41	30	20	DFT-QPSK	L	Outer Full	-34.28	PASS
n41	30	20	DFT-QPSK	H	Edge 1RB Right	-26.59	PASS
n41	30	20	DFT-QPSK	H	Outer Full	-39.37	PASS
n41	30	30	DFT-QPSK	L	Edge 1RB Left	-22.70	PASS
n41	30	30	DFT-QPSK	L	Outer Full	-34.94	PASS
n41	30	30	DFT-QPSK	H	Edge 1RB Right	-18.56	PASS
n41	30	30	DFT-QPSK	H	Outer Full	-39.83	PASS
n41	30	40	DFT-QPSK	L	Edge 1RB Left	-20.85	PASS
n41	30	40	DFT-QPSK	L	Outer Full	-30.18	PASS
n41	30	40	DFT-QPSK	H	Edge 1RB Right	-12.26	PASS
n41	30	40	DFT-QPSK	H	Outer Full	-39.59	PASS
n41	30	50	DFT-QPSK	L	Edge 1RB Left	-25.80	PASS
n41	30	50	DFT-QPSK	L	Outer Full	-34.29	PASS
n41	30	50	DFT-QPSK	H	Edge 1RB Right	-14.98	PASS
n41	30	50	DFT-QPSK	H	Outer Full	-40.76	PASS
n41	30	60	DFT-QPSK	L	Edge 1RB Left	-16.87	PASS
n41	30	60	DFT-QPSK	L	Outer Full	-34.91	PASS
n41	30	60	DFT-QPSK	H	Edge 1RB Right	-20.43	PASS
n41	30	60	DFT-QPSK	H	Outer Full	-26.45	PASS
n41	30	70	DFT-QPSK	L	Edge 1RB Left	-21.66	PASS
n41	30	70	DFT-QPSK	L	Outer Full	-32.81	PASS
n41	30	70	DFT-QPSK	H	Edge 1RB Right	-15.35	PASS
n41	30	70	DFT-QPSK	H	Outer Full	-32.21	PASS
n41	30	80	DFT-QPSK	L	Edge 1RB Left	-15.64	PASS
n41	30	80	DFT-QPSK	L	Outer Full	-30.67	PASS
n41	30	80	DFT-QPSK	H	Edge 1RB Right	-15.12	PASS
n41	30	80	DFT-QPSK	H	Outer Full	-33.94	PASS
n41	30	90	DFT-QPSK	L	Edge 1RB Left	-15.68	PASS
n41	30	90	DFT-QPSK	L	Outer Full	-34.18	PASS
n41	30	90	DFT-QPSK	H	Edge 1RB Right	-12.47	PASS
n41	30	90	DFT-QPSK	H	Outer Full	-35.20	PASS
n41	30	100	DFT-QPSK	L	Edge 1RB Left	-14.16	PASS
n41	30	100	DFT-QPSK	L	Outer Full	-31.73	PASS
n41	30	100	DFT-QPSK	H	Edge 1RB Right	-17.87	PASS
n41	30	100	DFT-QPSK	H	Outer Full	-31.61	PASS

Test Graphs



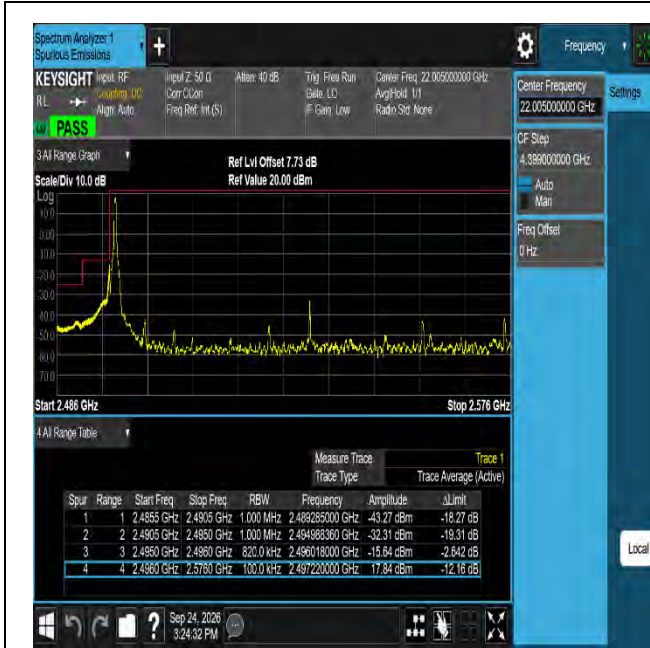






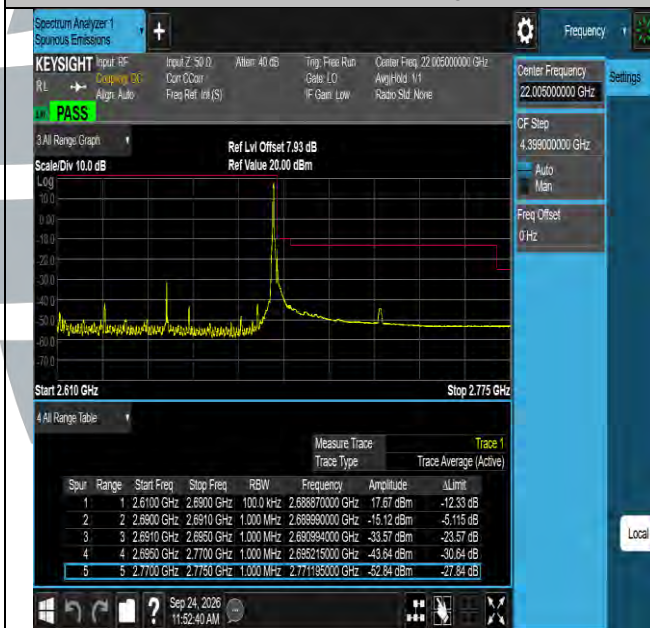






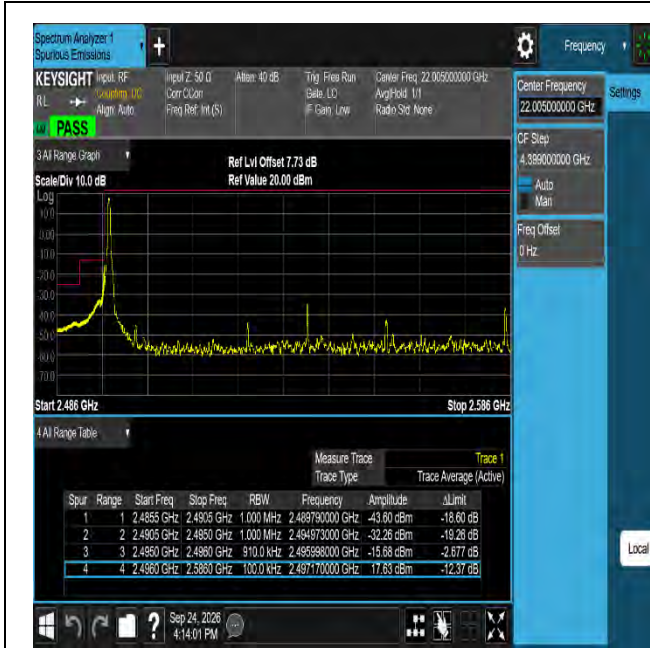
NTNV-n41-PC2-30-80-L-DFT-QPSK-Edge_1RB_Left-PASS

NTNV-n41-PC2-30-80-L-DFT-QPSK-Outer_Full-PASS



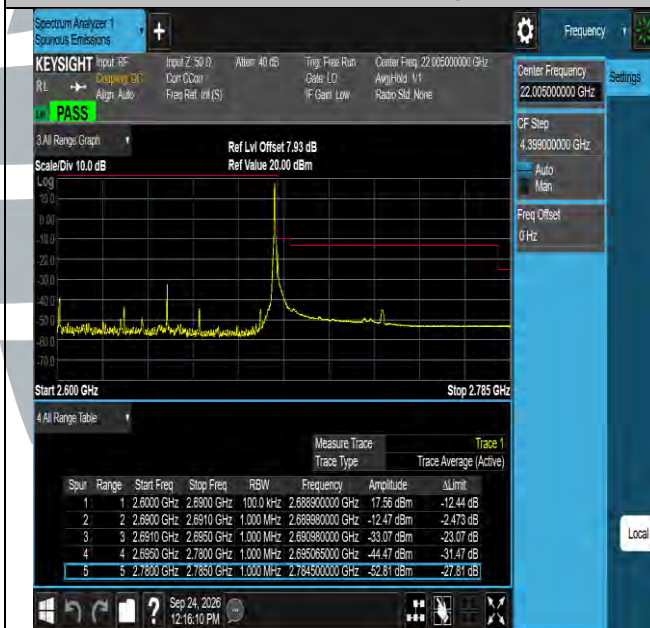
NTNV-n41-PC2-30-80-H-DFT-QPSK-Edge_1RB_Right-PASS

NTNV-n41-PC2-30-80-H-DFT-QPSK-Outer_Full-PASS



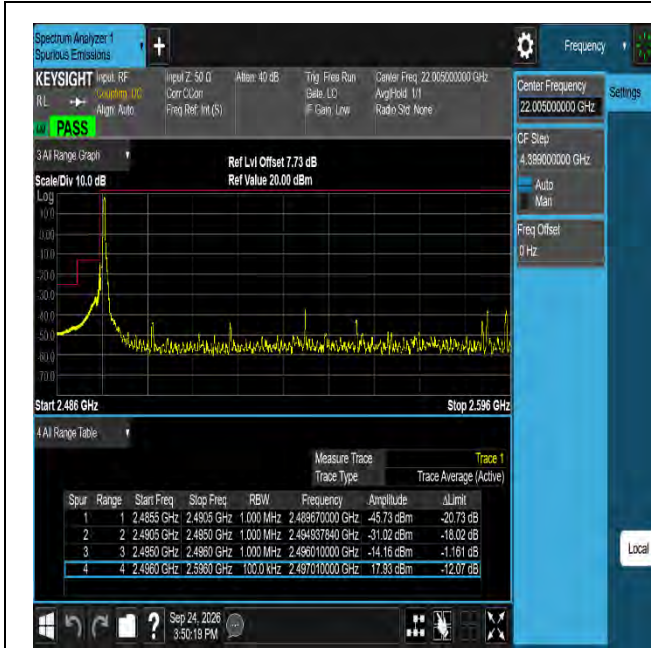
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NTNV-n41-PC2-30-90-L-DFT-QPSK-Outer_Full-PASS

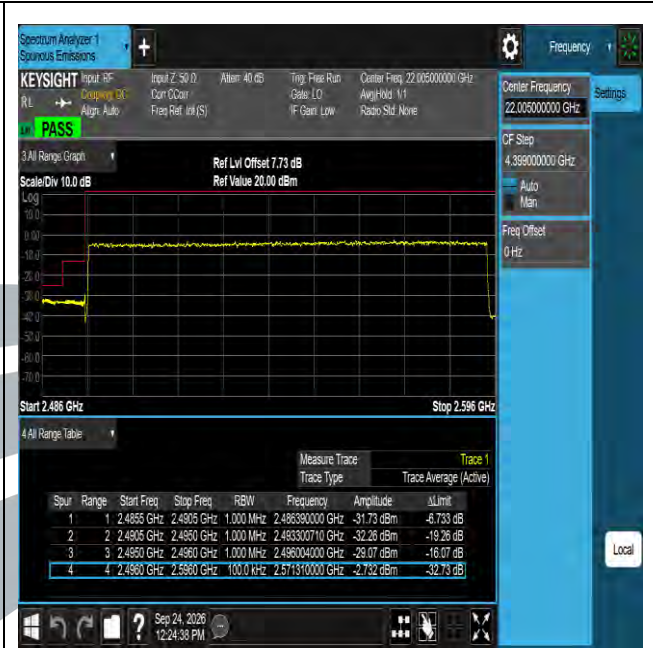


NTNV-n41-PC2-30-90-H-DFT-QPSK-Edge_1RB_Right-PASS

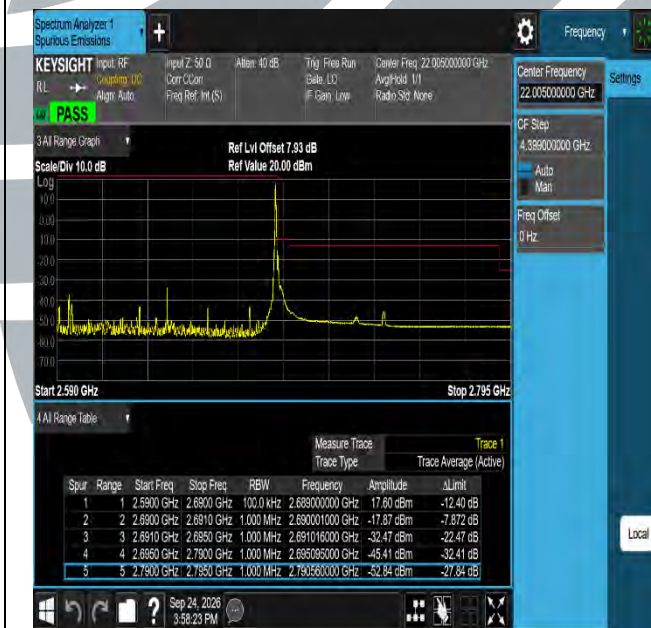
NTNV-n41-PC2-30-90-H-DFT-QPSK-Outer_Full-PASS



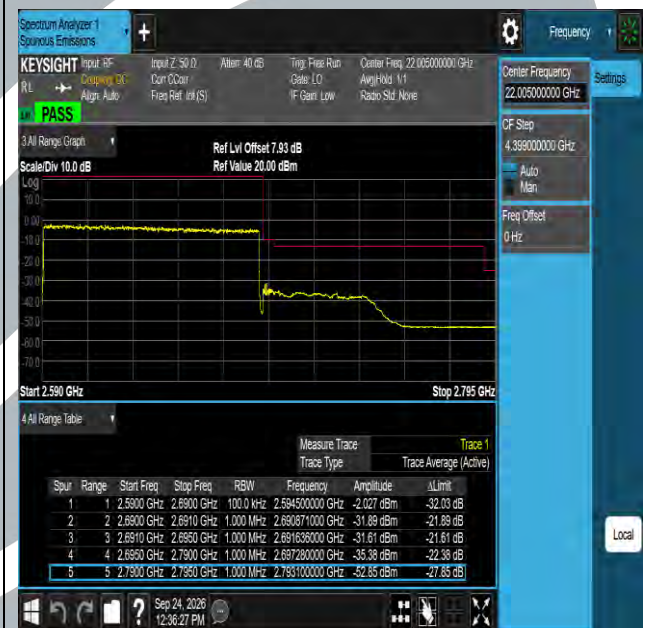
NTNV-n41-PC2-30-100-L-DFT-QPSK-Edge_1RB_Left-PASS



NTNV-n41-PC2-30-100-L-DFT-QPSK-Outer_Full-PASS



NTNV-n41-PC2-30-100-H-DFT-QPSK-Edge_1RB_Right-PASS



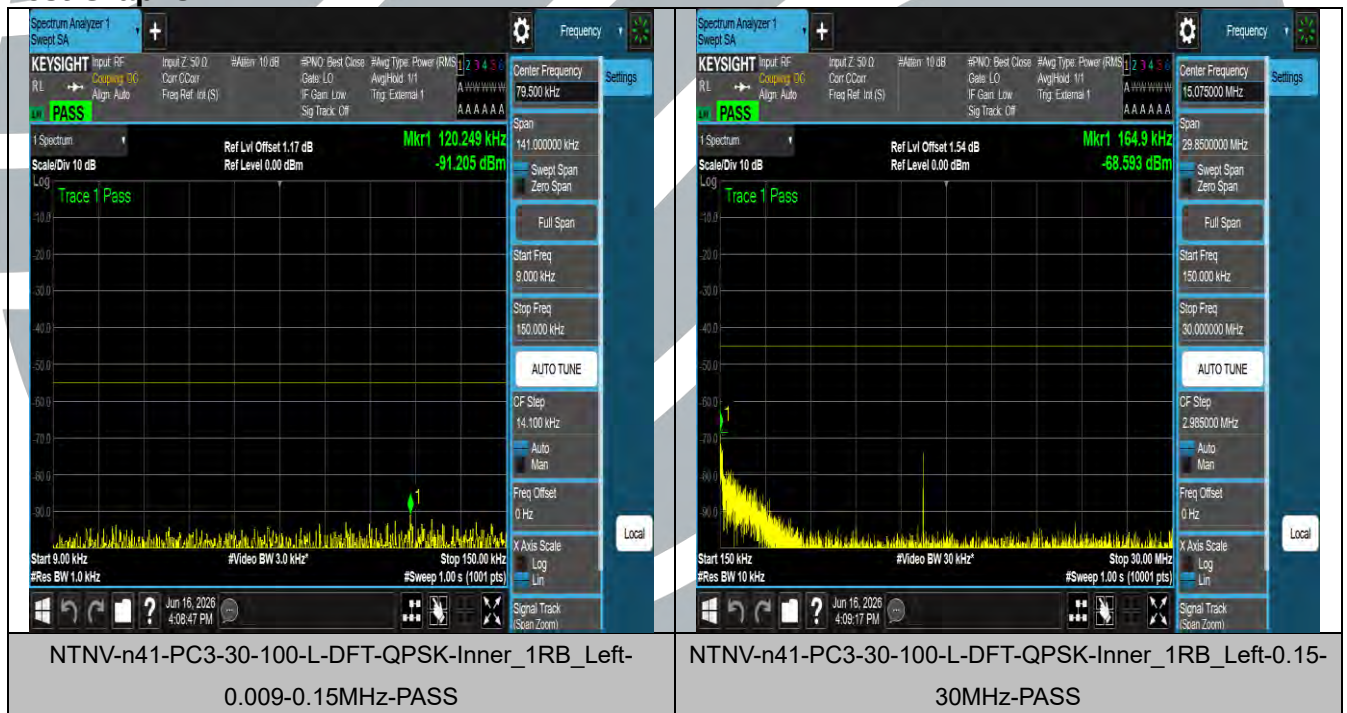
NTNV-n41-PC2-30-100-H-DFT-QPSK-Outer_Full-PASS

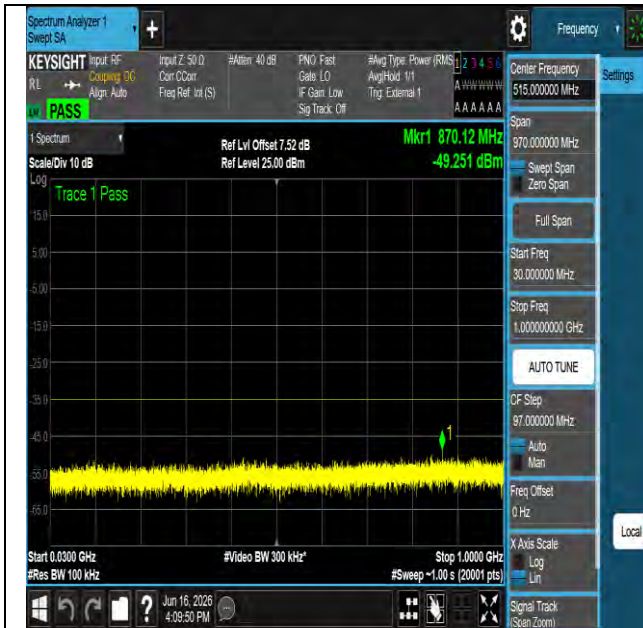
Q.4 CONDUCTED SPURIOUS EMISSION FOR SA

Test Result

Band	SCS (kHz)	BW (MHz)	Modulation	Ch.	RB Config	Start Freq (MHz)	Stop Freq (MHz)	Result (dBm)	Limit	Verdict
n41	30	100	DFT-QPSK	L	Inner 1RB Left	0.009	0.15	-91.21	≤-55dBm	PASS
n41	30	100	DFT-QPSK	L	Inner 1RB Left	0.15	30	-68.59	≤-45dBm	PASS
n41	30	100	DFT-QPSK	L	Inner 1RB Left	30	1000	-49.25	≤-35dBm	PASS
n41	30	100	DFT-QPSK	L	Inner 1RB Left	1000	3000	-40.19	≤-25dBm	PASS
n41	30	100	DFT-QPSK	L	Inner 1RB Left	3000	18000	-42.30	≤-25dBm	PASS
n41	30	100	DFT-QPSK	L	Inner 1RB Left	18000	30000	-48.87	≤-25dBm	PASS
n41	30	100	DFT-QPSK	M	Inner 1RB Left	0.009	0.15	-92.08	≤-55dBm	PASS
n41	30	100	DFT-QPSK	M	Inner 1RB Left	0.15	30	-68.31	≤-45dBm	PASS
n41	30	100	DFT-QPSK	M	Inner 1RB Left	30	1000	-50.23	≤-35dBm	PASS
n41	30	100	DFT-QPSK	M	Inner 1RB Left	1000	3000	-39.69	≤-25dBm	PASS
n41	30	100	DFT-QPSK	M	Inner 1RB Left	3000	18000	-42.50	≤-25dBm	PASS
n41	30	100	DFT-QPSK	M	Inner 1RB Left	18000	30000	-48.89	≤-25dBm	PASS
n41	30	100	DFT-QPSK	H	Inner 1RB Left	0.009	0.15	-93.34	≤-55dBm	PASS
n41	30	100	DFT-QPSK	H	Inner 1RB Left	0.15	30	-57.58	≤-45dBm	PASS
n41	30	100	DFT-QPSK	H	Inner 1RB Left	30	1000	-50.22	≤-35dBm	PASS
n41	30	100	DFT-QPSK	H	Inner 1RB Left	1000	3000	-39.92	≤-25dBm	PASS
n41	30	100	DFT-QPSK	H	Inner 1RB Left	3000	18000	-42.22	≤-25dBm	PASS
n41	30	100	DFT-QPSK	H	Inner 1RB Left	18000	30000	-48.44	≤-25dBm	PASS

Test Graphs

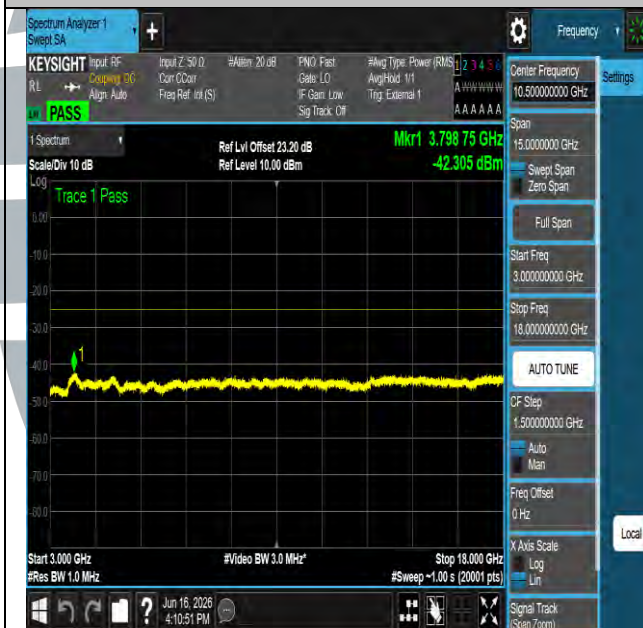




NTNV-n41-PC3-30-100-L-DFT-QPSK-Inner_1RB_Left-30-1000MHz-PASS



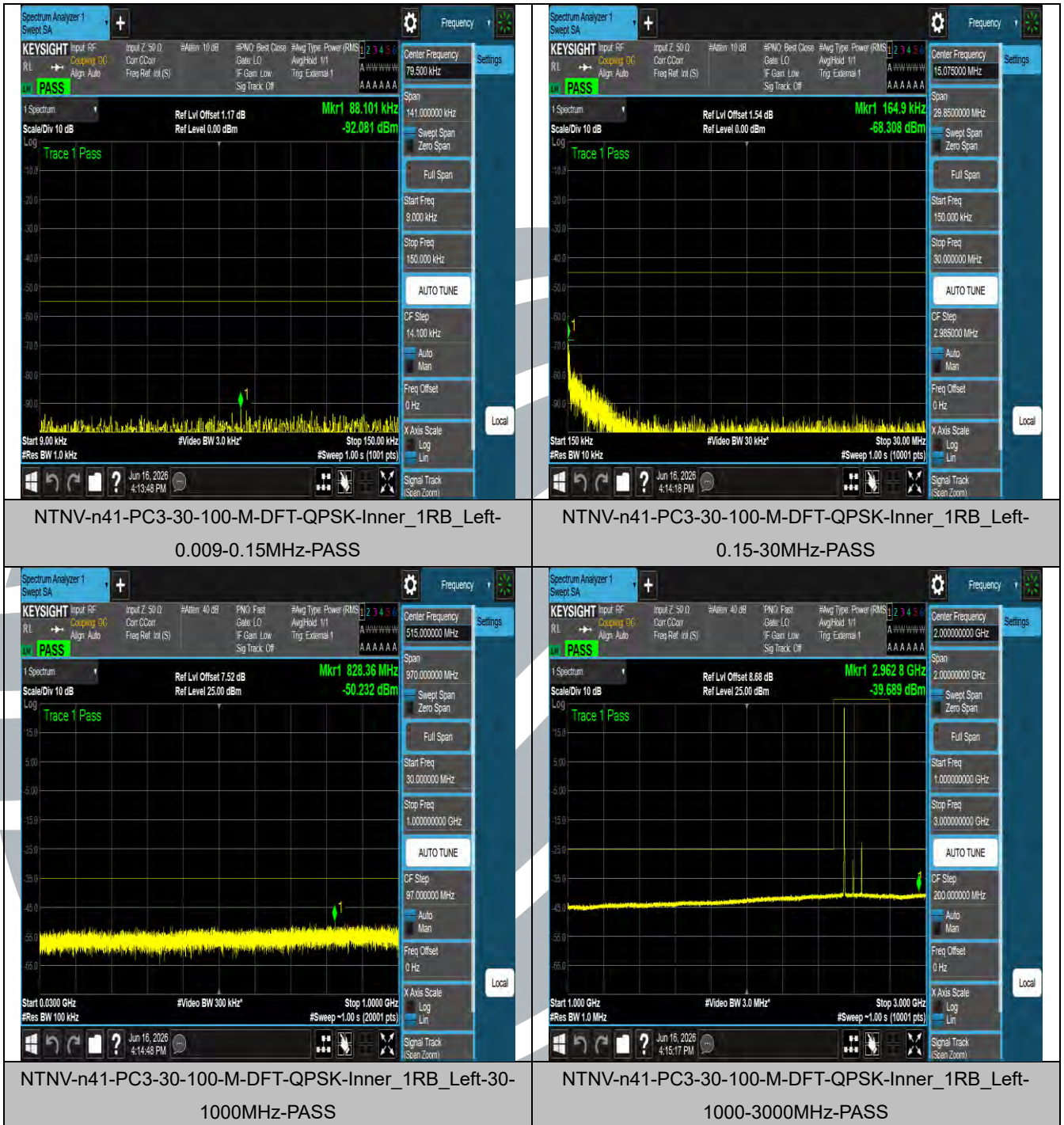
NTNV-n41-PC3-30-100-L-DFT-QPSK-Inner_1RB_Left-1000-3000MHz-PASS

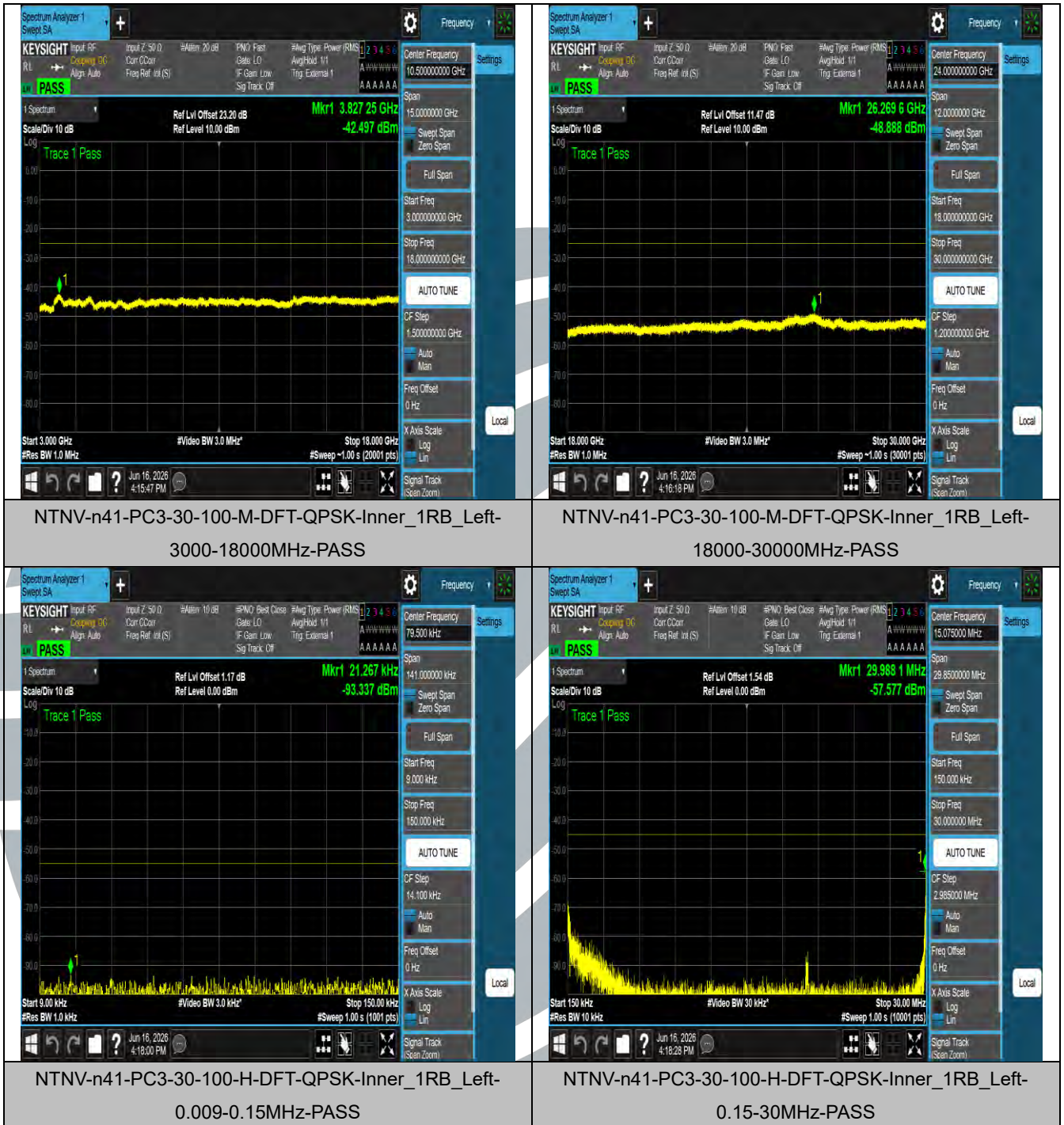


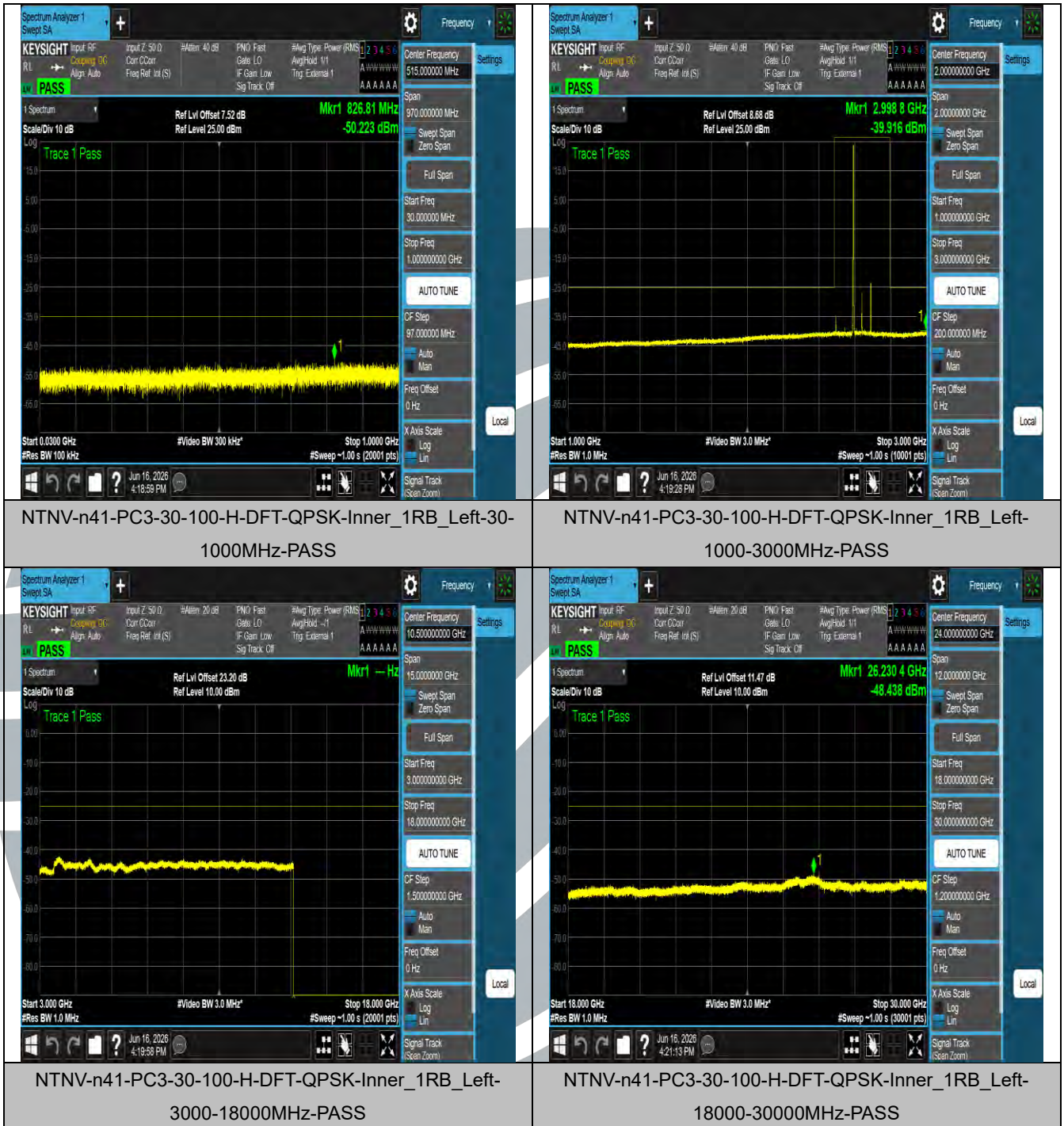
NTNV-n41-PC3-30-100-L-DFT-QPSK-Inner_1RB_Left-3000-18000MHz-PASS



NTNV-n41-PC3-30-100-L-DFT-QPSK-Inner_1RB_Left-18000-30000MHz-PASS







Q.5 FREQUENCY STABILITY FOR SA

Test Result

Frequency Error VS. Voltage

Voltage													
Band	SCS (kHz)	BW (MHz)	Modulation	Ch.	RB Config	Voltage	Temp.	Result (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
n41	30	100	DFT-QPSK	M	Outer_Full	VL	NT	-0.003517	-2.5~2.5	2496	2690	---	PASS
n41	30	100	DFT-QPSK	M	Outer_Full	VN	NT	-0.003621	-2.5~2.5	2496	2690	---	PASS
n41	30	100	DFT-QPSK	M	Outer_Full	VH	NT	-0.002633	-2.5~2.5	2496	2690	---	PASS

Frequency Error VS. Temperature

Temperature													
Band	SCS (kHz)	BW (MHz)	Modulation	Ch.	RB Config	Voltage	Temp.	Result (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
n41	30	100	DFT-QPSK	M	Outer_Full	NV	-30	-0.00169	-2.5~2.5	2496	2690	---	PASS
n41	30	100	DFT-QPSK	M	Outer_Full	NV	-20	-0.004256	-2.5~2.5	2496	2690	---	PASS
n41	30	100	DFT-QPSK	M	Outer_Full	NV	-10	-0.002663	-2.5~2.5	2496	2690	---	PASS
n41	30	100	DFT-QPSK	M	Outer_Full	NV	0	-0.002509	-2.5~2.5	2496	2690	---	PASS
n41	30	100	DFT-QPSK	M	Outer_Full	NV	10	-0.003278	-2.5~2.5	2496	2690	---	PASS
n41	30	100	DFT-QPSK	M	Outer_Full	NV	20	-0.002634	-2.5~2.5	2496	2690	---	PASS
n41	30	100	DFT-QPSK	M	Outer_Full	NV	30	-0.00266	-2.5~2.5	2496	2690	---	PASS
n41	30	100	DFT-QPSK	M	Outer_Full	NV	40	-0.003834	-2.5~2.5	2496	2690	---	PASS
n41	30	100	DFT-QPSK	M	Outer_Full	NV	50	-0.004378	-2.5~2.5	2496	2690	---	PASS