

APPENDIX R G NR N66 RF TEST DATA

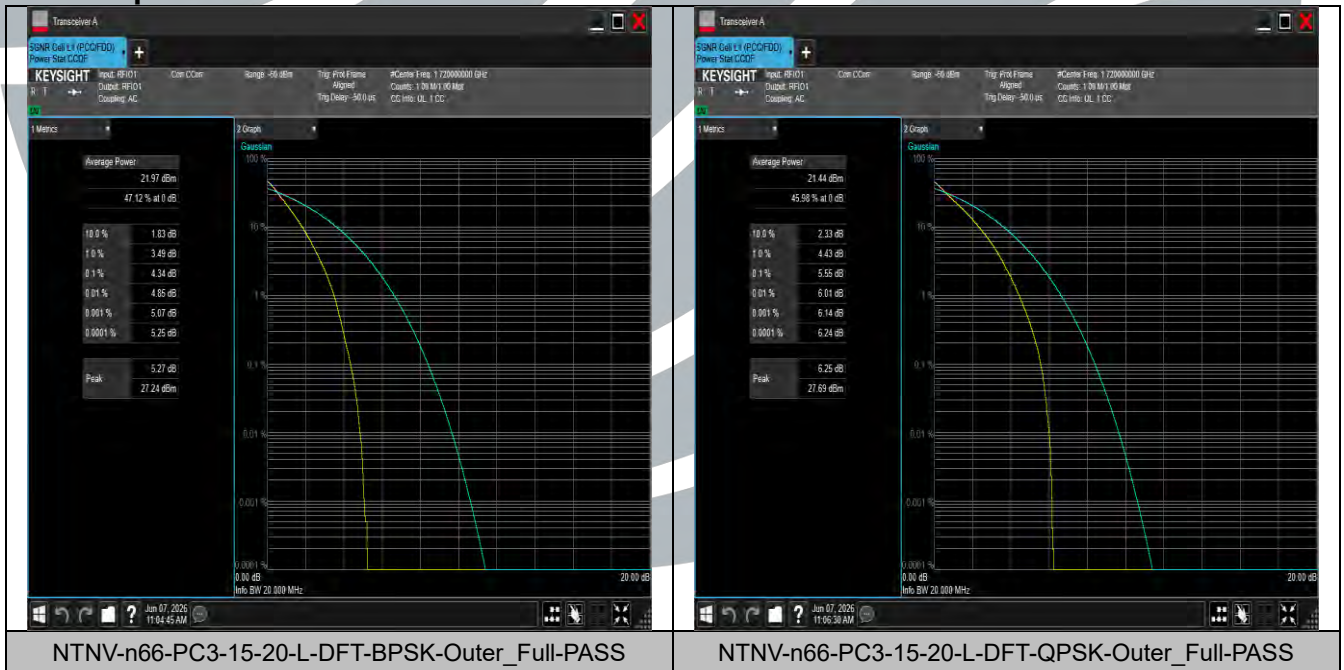
R.1 PEAK-TO-AVERAGE RATIO FOR SA

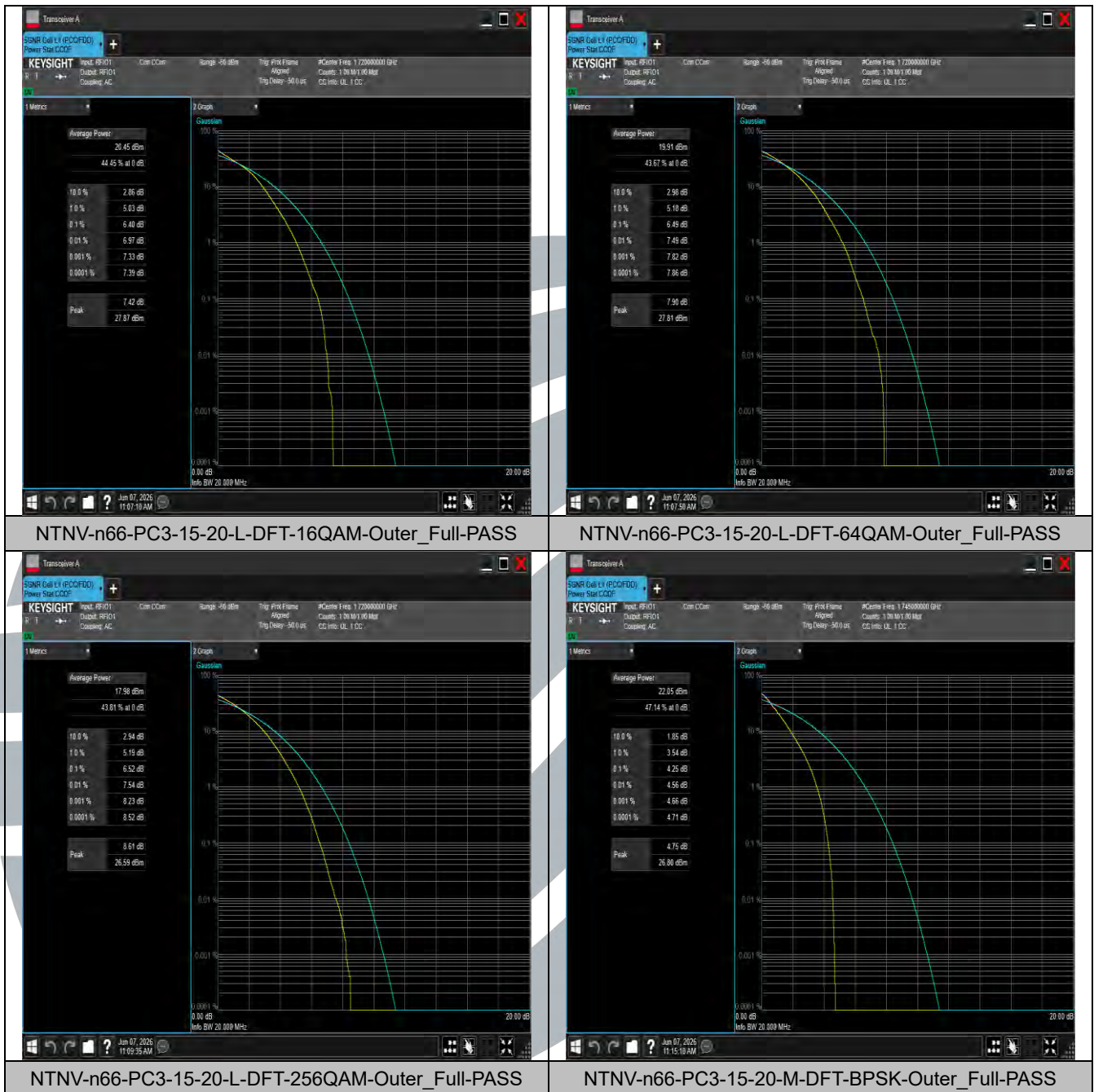
➤ Peak-to-Average Ratio(CCDFF)

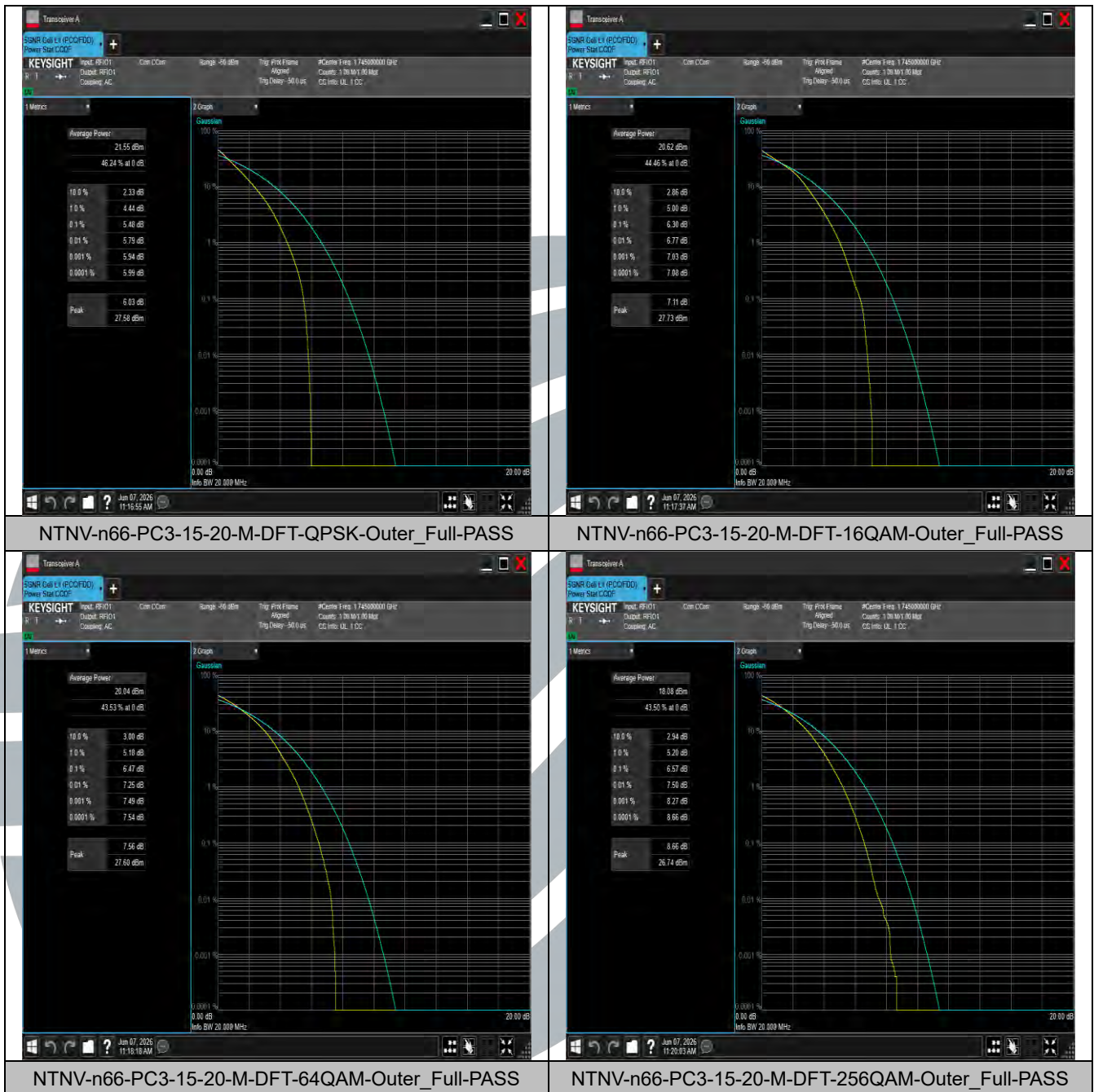
Test Result

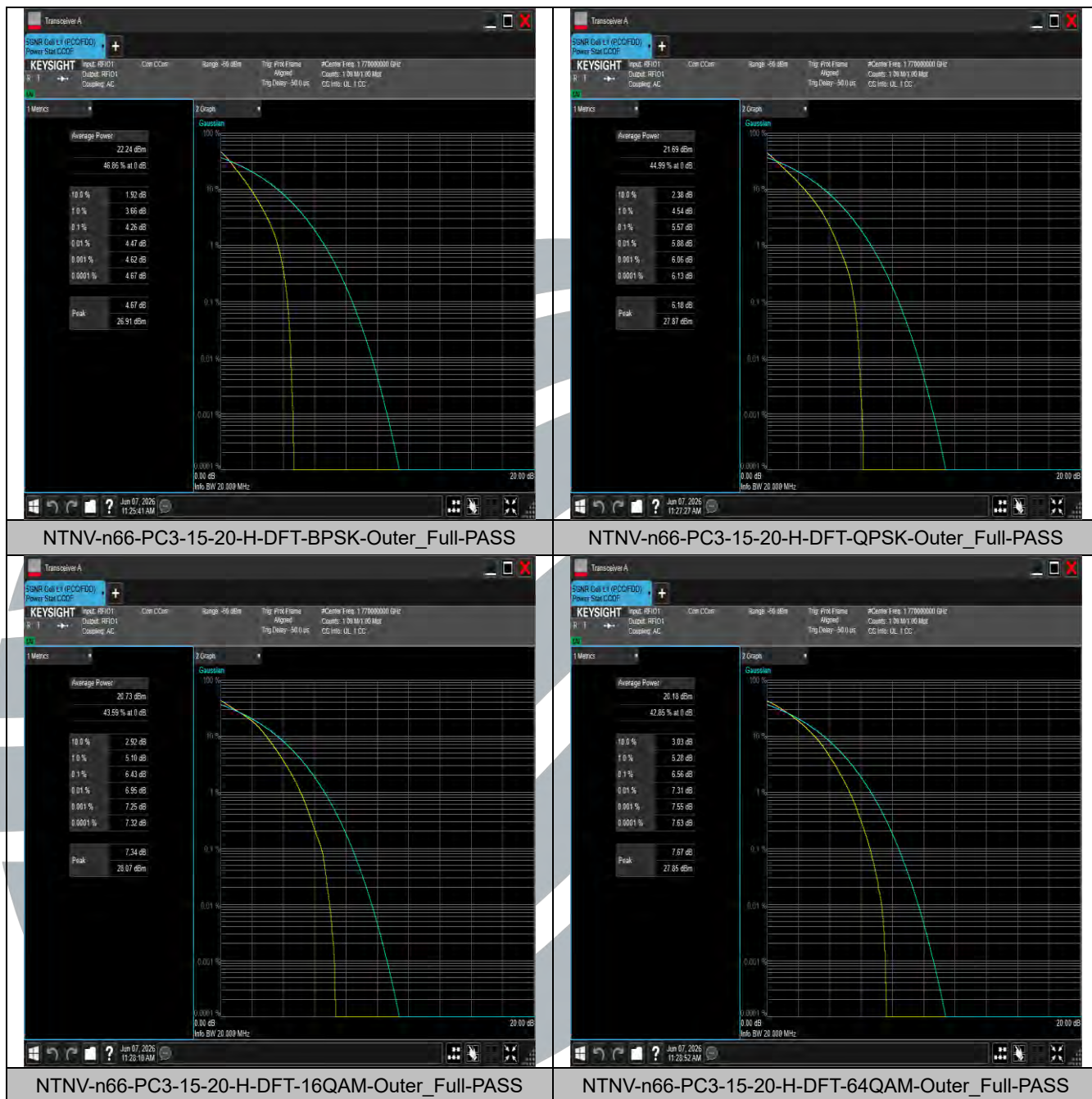
Band	SCS (kHz)	BW (MHz)	Modulation	Channel	RB Config	Result (dBm)	Limit	Verdict
n66	15	20	DFT-BPSK	L	Outer_Full	4.34	≤13dB	PASS
n66	15	20	DFT-QPSK	L	Outer_Full	5.55	≤13dB	PASS
n66	15	20	DFT-16QAM	L	Outer_Full	6.4	≤13dB	PASS
n66	15	20	DFT-64QAM	L	Outer_Full	6.49	≤13dB	PASS
n66	15	20	DFT-256QAM	L	Outer_Full	6.52	≤13dB	PASS
n66	15	20	DFT-BPSK	M	Outer_Full	4.25	≤13dB	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	5.48	≤13dB	PASS
n66	15	20	DFT-16QAM	M	Outer_Full	6.3	≤13dB	PASS
n66	15	20	DFT-64QAM	M	Outer_Full	6.47	≤13dB	PASS
n66	15	20	DFT-256QAM	M	Outer_Full	6.57	≤13dB	PASS
n66	15	20	DFT-BPSK	H	Outer_Full	4.26	≤13dB	PASS
n66	15	20	DFT-QPSK	H	Outer_Full	5.57	≤13dB	PASS
n66	15	20	DFT-16QAM	H	Outer_Full	6.43	≤13dB	PASS
n66	15	20	DFT-64QAM	H	Outer_Full	6.56	≤13dB	PASS
n66	15	20	DFT-256QAM	H	Outer_Full	6.75	≤13dB	PASS

Test Graphs











N/A

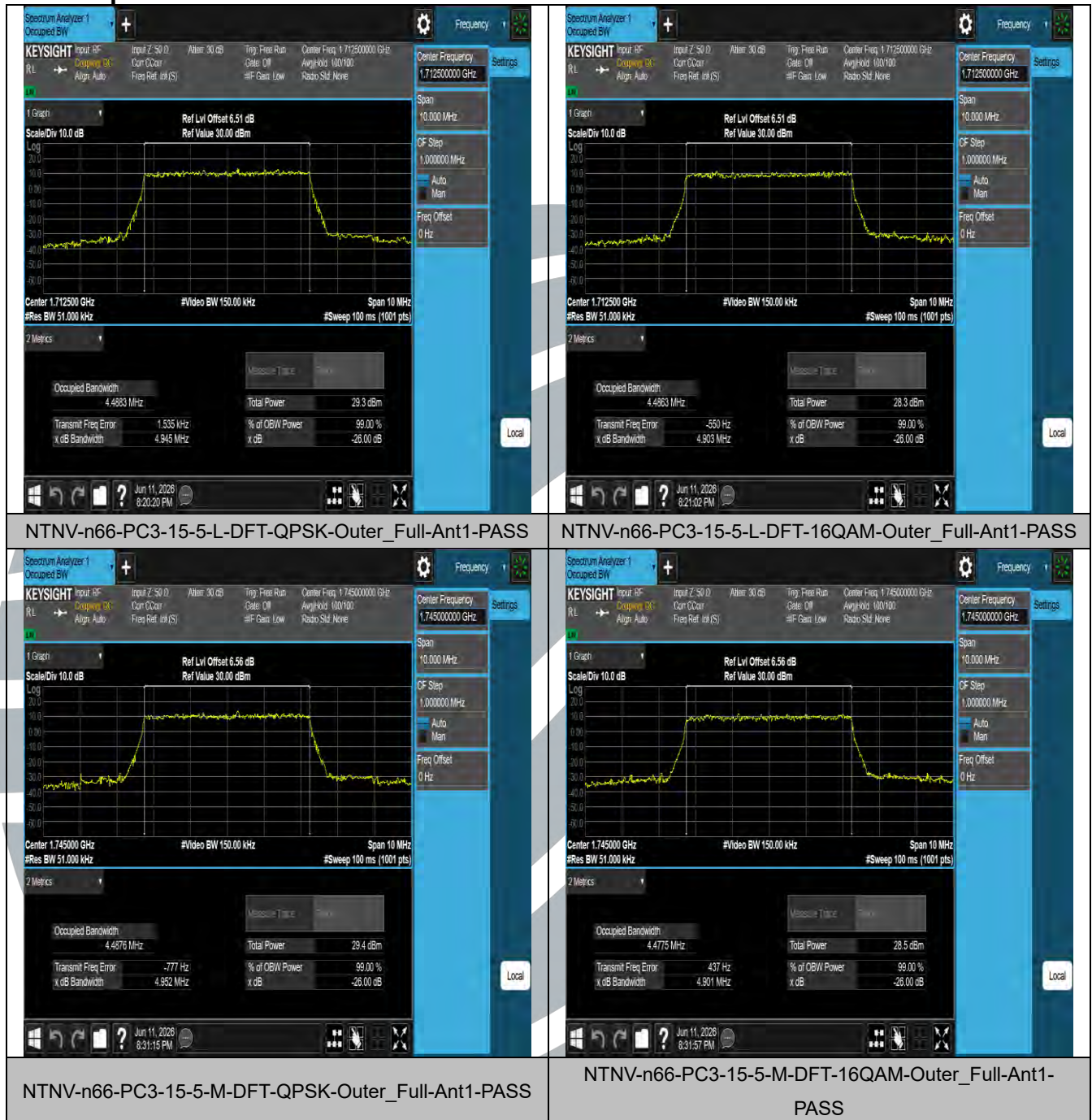
NTNV-n66-PC3-15-20-H-DFT-256QAM-Outer_Full-PASS

R.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA

Test Result

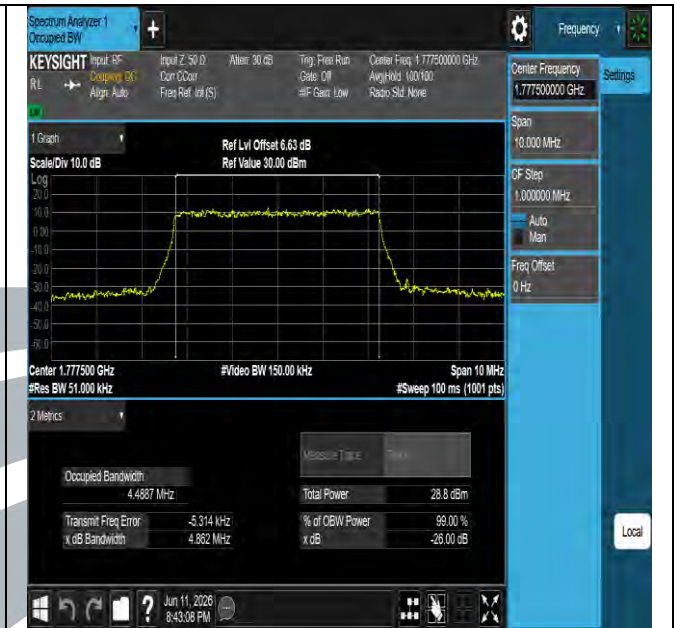
Band	SCS (kHz)	BW (MHz)	Modulation	Ch.	RB Config	99% BW Result (MHz)	26dB BW Result (MHz)	Verdict
n66	15	5	DFT-QPSK	L	Outer_Full	4.4883	4.945	PASS
n66	15	5	DFT-16QAM	L	Outer_Full	4.4863	4.903	PASS
n66	15	5	DFT-QPSK	M	Outer_Full	4.4876	4.952	PASS
n66	15	5	DFT-16QAM	M	Outer_Full	4.4775	4.901	PASS
n66	15	5	DFT-QPSK	H	Outer_Full	4.4867	4.999	PASS
n66	15	5	DFT-16QAM	H	Outer_Full	4.4887	4.862	PASS
n66	15	10	DFT-QPSK	L	Outer_Full	8.9276	9.486	PASS
n66	15	10	DFT-16QAM	L	Outer_Full	8.9296	9.564	PASS
n66	15	10	DFT-QPSK	M	Outer_Full	8.9282	9.582	PASS
n66	15	10	DFT-16QAM	M	Outer_Full	8.9296	9.482	PASS
n66	15	10	DFT-QPSK	H	Outer_Full	8.9313	9.507	PASS
n66	15	10	DFT-16QAM	H	Outer_Full	8.9335	9.522	PASS
n66	15	15	DFT-QPSK	L	Outer_Full	13.371	14.11	PASS
n66	15	15	DFT-16QAM	L	Outer_Full	13.380	14.08	PASS
n66	15	15	DFT-QPSK	M	Outer_Full	13.386	14.15	PASS
n66	15	15	DFT-16QAM	M	Outer_Full	13.408	14.07	PASS
n66	15	15	DFT-QPSK	H	Outer_Full	13.405	14.21	PASS
n66	15	15	DFT-16QAM	H	Outer_Full	13.393	14.10	PASS
n66	15	20	DFT-QPSK	L	Outer_Full	17.848	18.71	PASS
n66	15	20	DFT-16QAM	L	Outer_Full	17.835	18.70	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	17.869	18.74	PASS
n66	15	20	DFT-16QAM	M	Outer_Full	17.863	18.73	PASS
n66	15	20	DFT-QPSK	H	Outer_Full	17.896	18.81	PASS
n66	15	20	DFT-16QAM	H	Outer_Full	17.880	18.74	PASS

Test Graphs

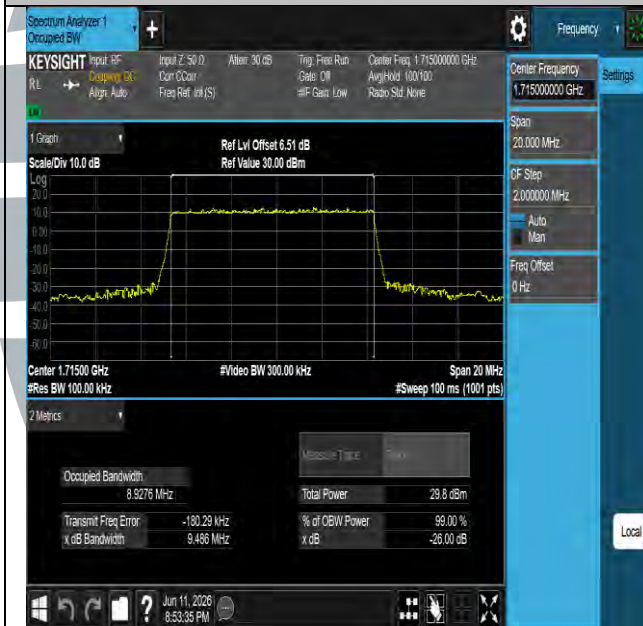




NTNV-n66-PC3-15-5-H-DFT-QPSK-Outer_Full-Ant1-PASS



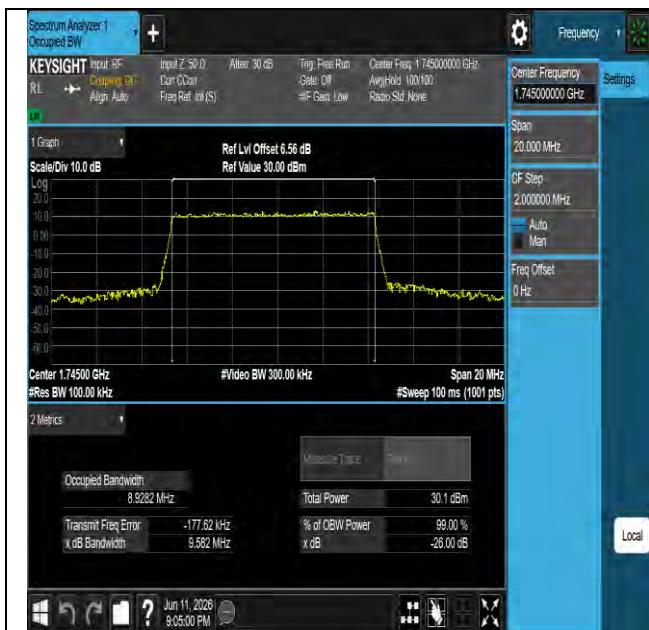
NTNV-n66-PC3-15-5-H-DFT-16QAM-Outer_Full-Ant1-PASS



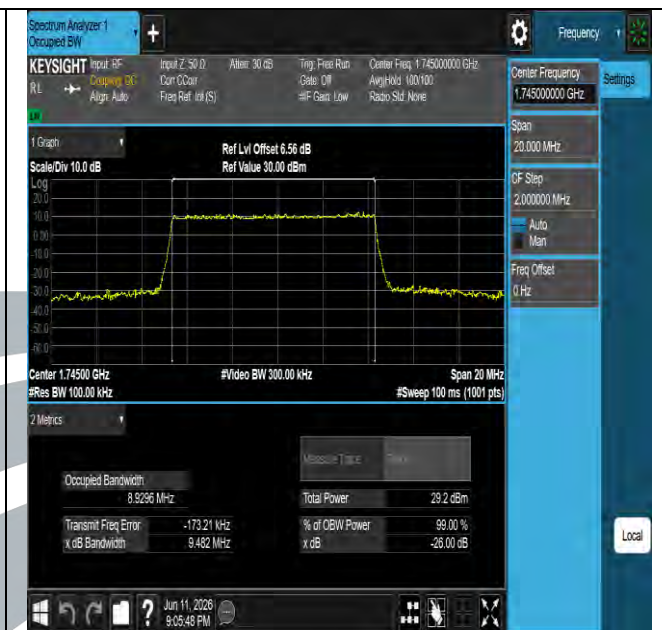
NTNV-n66-PC3-15-10-L-DFT-QPSK-Outer_Full-Ant1-PASS



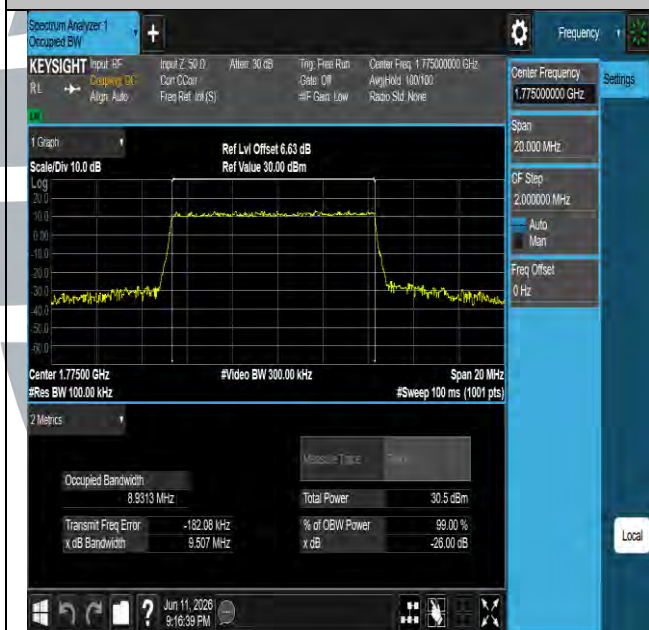
NTNV-n66-PC3-15-10-L-DFT-16QAM-Outer_Full-Ant1-PASS



NTNV-n66-PC3-15-10-M-DFT-QPSK-Outet_Full-Ant1-PASS



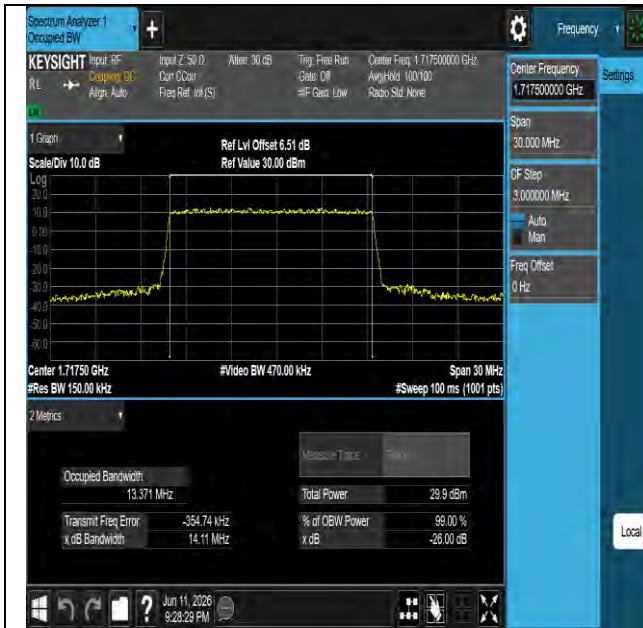
NTNV-n66-PC3-15-10-M-DFT-16QAM-Outet_Full-Ant1-PASS



NTNV-n66-PC3-15-10-H-DFT-QPSK-Outet_Full-Ant1-PASS



NTNV-n66-PC3-15-10-H-DFT-16QAM-Outet_Full-Ant1-PASS



NTNV-n66-PC3-15-15-L-DFT-QPSK-Outer_Full-Ant1-PASS



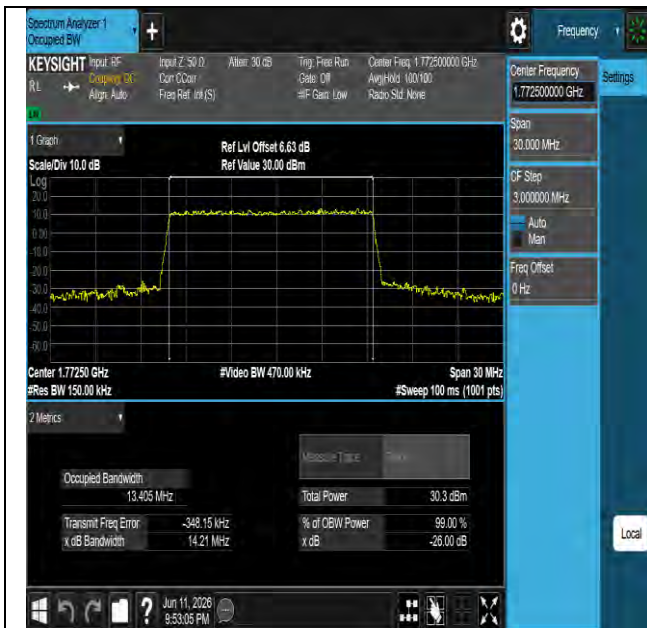
NTNV-n66-PC3-15-15-L-DFT-16QAM-Outer_Full-Ant1-PASS



NTNV-n66-PC3-15-15-M-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-n66-PC3-15-15-M-DFT-16QAM-Outer_Full-Ant1-PASS



NTNV-n66-PC3-15-15-H-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-n66-PC3-15-15-H-DFT-16QAM-Outer_Full-Ant1-PASS



NTNV-n66-PC3-15-20-L-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-n66-PC3-15-20-L-DFT-16QAM-Outer_Full-Ant1-PASS



NTNV-n66-PC3-15-20-M-DFT-QPSK-Outter_Full-Ant1-
PASS



NTNV-n66-PC3-15-20-M-DFT-16QAM-Outter_Full-Ant1-
PASS



NTNV-n66-PC3-15-20-H-DFT-QPSK-Outter_Full-Ant1-PASS



NTNV-n66-PC3-15-20-H-DFT-16QAM-Outter_Full-Ant1-
PASS

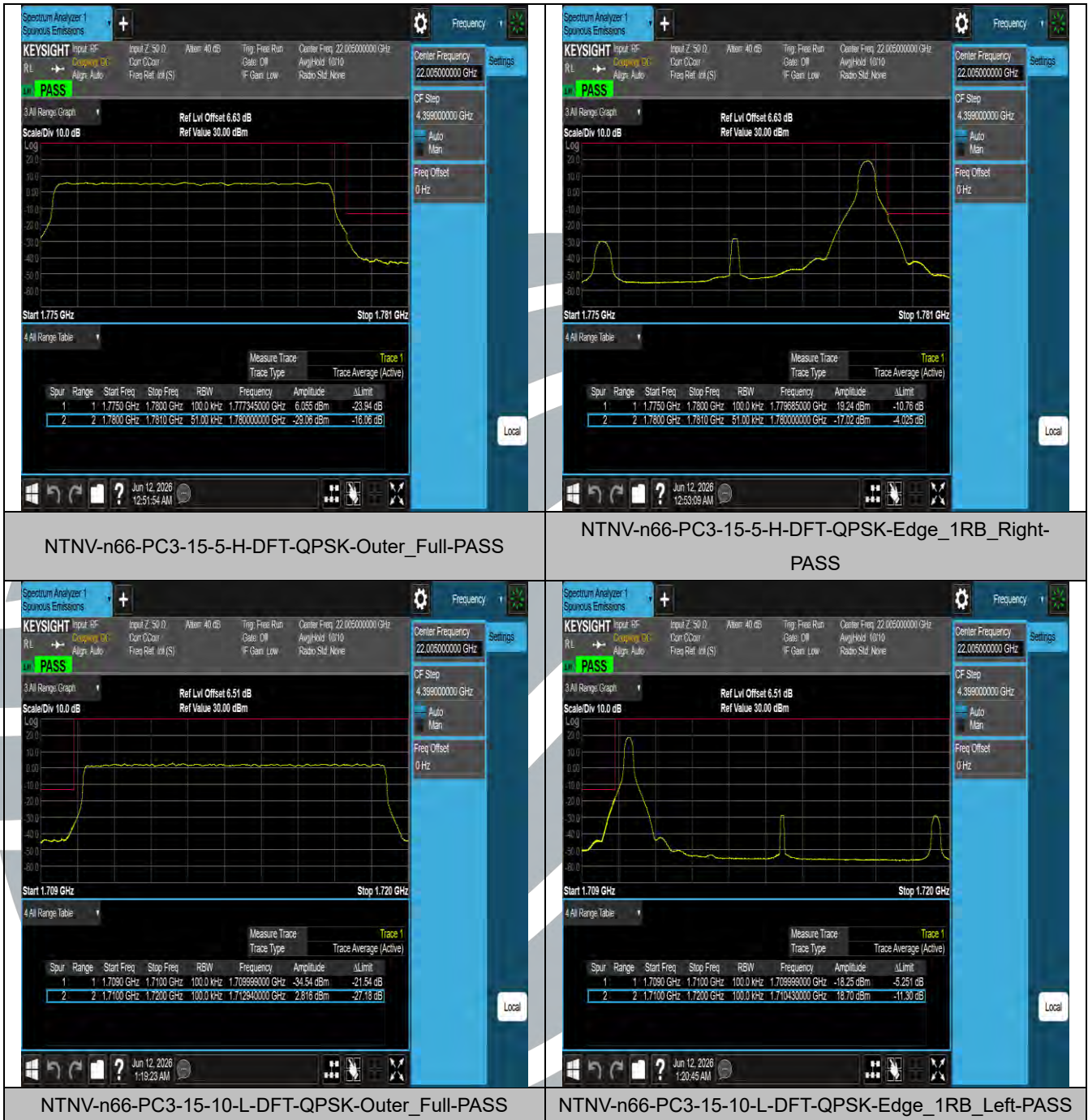
R.3 BAND EDGE FOR SA

Test Result

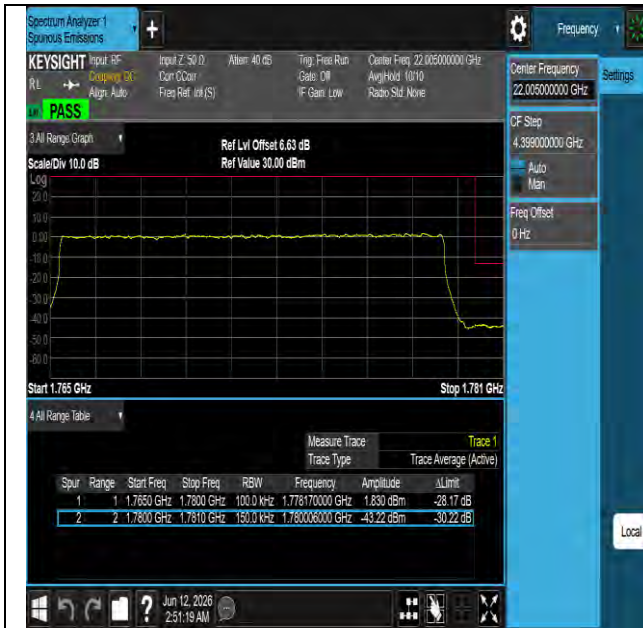
Band	SCS (kHz)	BW (MHz)	Modulation	Channel	RB Config	Result (dBm)	Verdict
n66	15	5	DFT-QPSK	L	Outer_Full	-31.61	PASS
n66	15	5	DFT-QPSK	L	Edge_1RB_Left	-19.04	PASS
n66	15	5	DFT-QPSK	H	Outer_Full	-29.06	PASS
n66	15	5	DFT-QPSK	H	Edge_1RB_Right	-17.02	PASS
n66	15	10	DFT-QPSK	L	Outer_Full	-34.54	PASS
n66	15	10	DFT-QPSK	L	Edge_1RB_Left	-18.25	PASS
n66	15	10	DFT-QPSK	H	Outer_Full	-42.78	PASS
n66	15	10	DFT-QPSK	H	Edge_1RB_Right	-15.78	PASS
n66	15	15	DFT-QPSK	L	Outer_Full	-35.69	PASS
n66	15	15	DFT-QPSK	L	Edge_1RB_Left	-19.74	PASS
n66	15	15	DFT-QPSK	H	Outer_Full	-43.22	PASS
n66	15	15	DFT-QPSK	H	Edge_1RB_Right	-17.09	PASS
n66	15	20	DFT-QPSK	L	Outer_Full	-38.27	PASS
n66	15	20	DFT-QPSK	L	Edge_1RB_Left	-21.02	PASS
n66	15	20	DFT-QPSK	H	Outer_Full	-41.36	PASS
n66	15	20	DFT-QPSK	H	Edge_1RB_Right	-19.92	PASS

Test Graphs

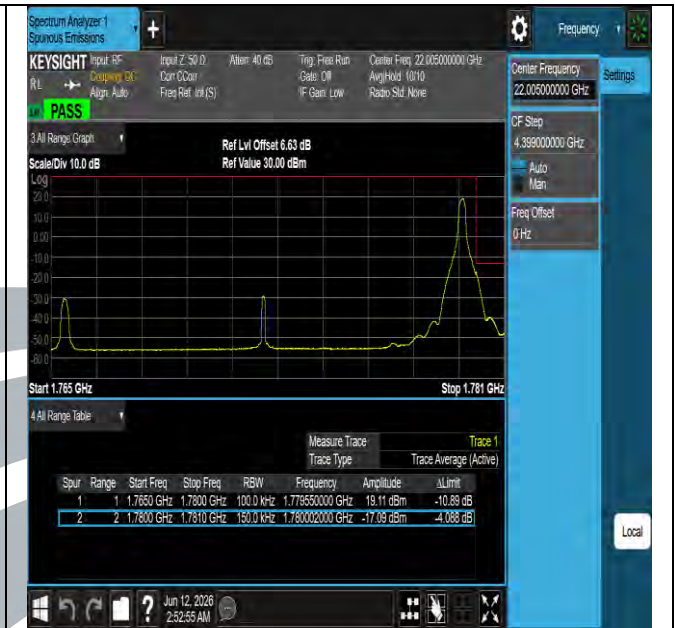




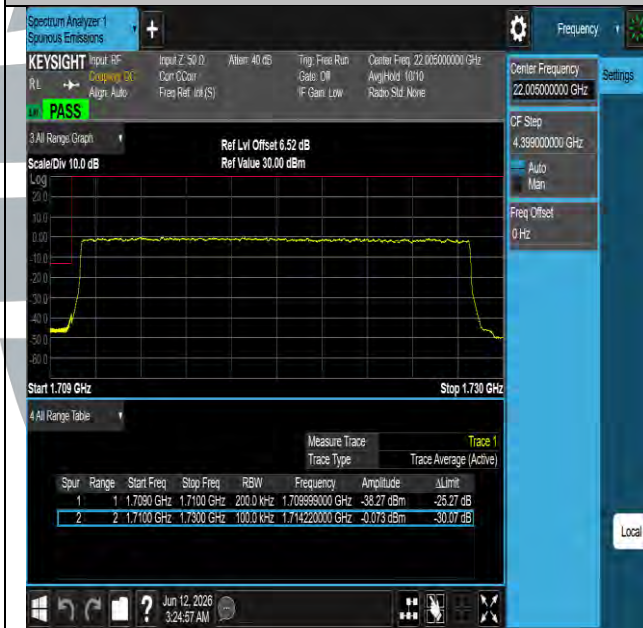




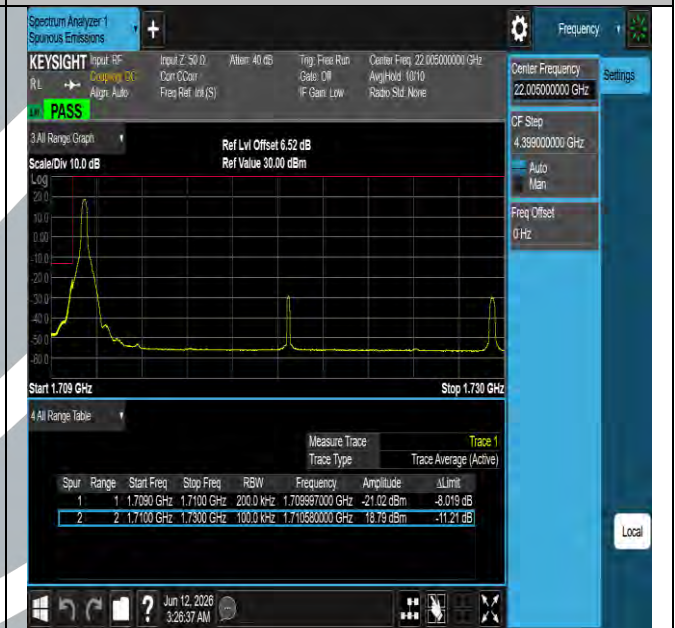
NTNv-n66-PC3-15-15-H-DFT-QPSK-Outer_Full-PASS



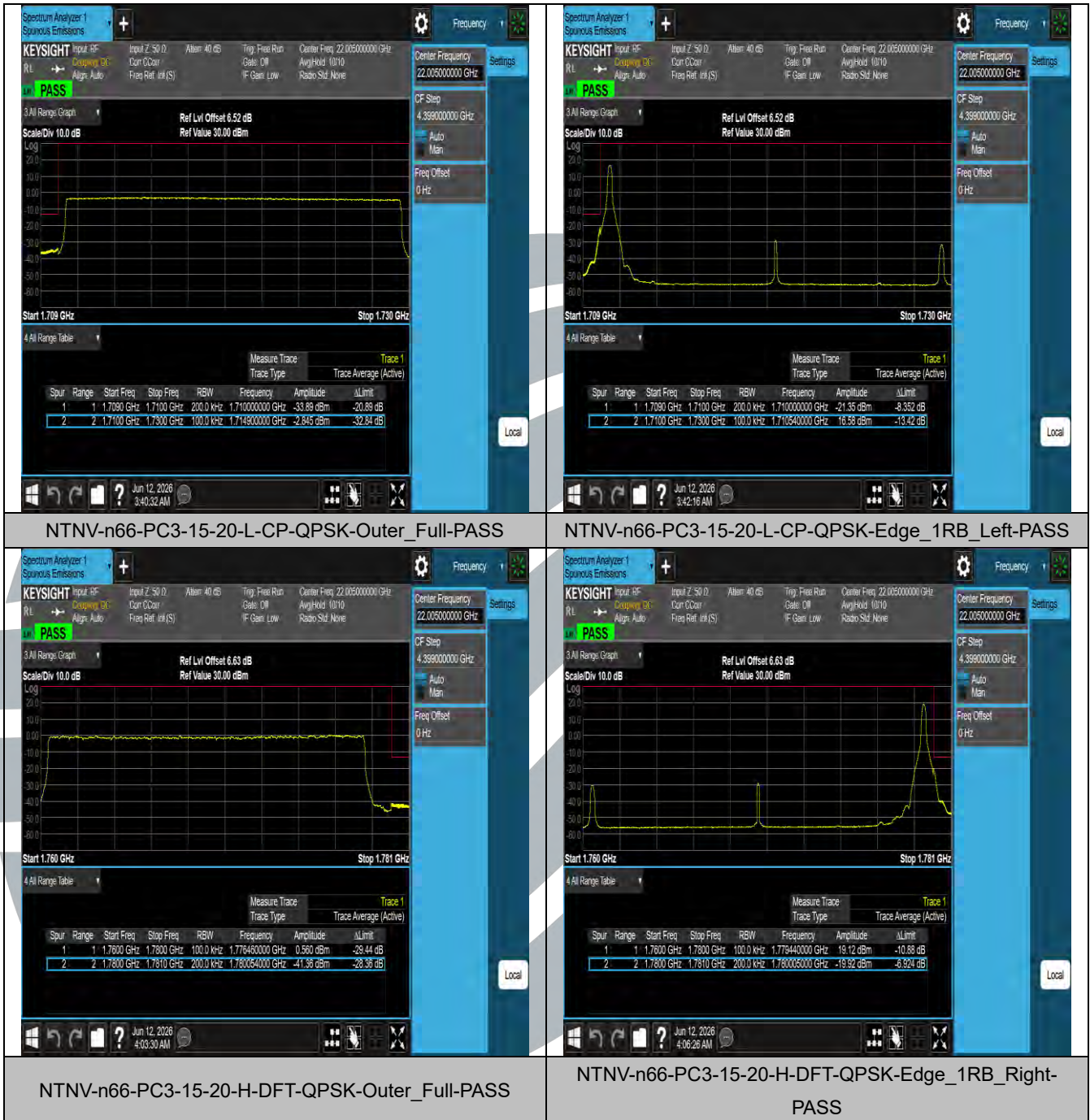
NTNv-n66-PC3-15-15-H-DFT-QPSK-Edge_1RB_Right-PASS



NTNv-n66-PC3-15-20-L-DFT-QPSK-Outer_Full-PASS



NTNv-n66-PC3-15-20-L-DFT-QPSK-Edge_1RB_Left-PASS



R.4 CONDUCTED SPURIOUS EMISSION FOR SA

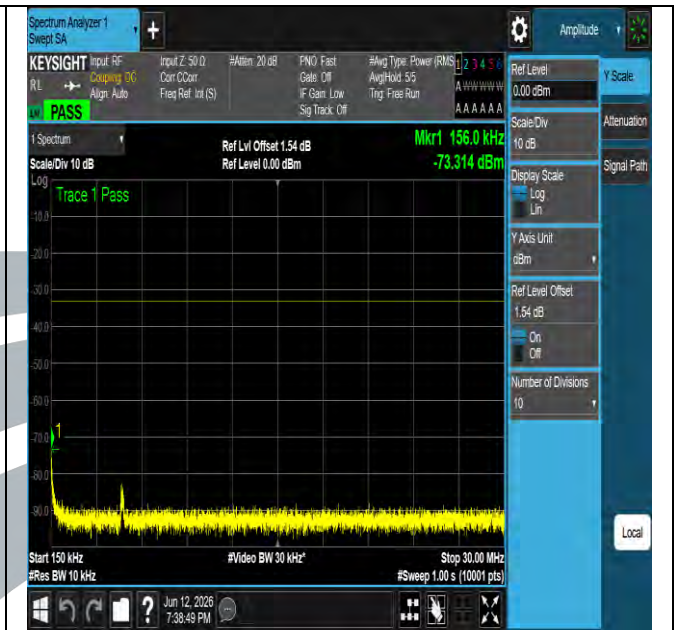
Test Result

Band	SCS (kHz)	BW (MHz)	Modulation	Ch.	RB Config	Start Freq (MHz)	Stop Freq (MHz)	Result (dBm)	Limit	Verdict
n66	15	20	DFT-QPSK	L	Inner_1RB_Left	0.009	0.15	-65.43	≤-43dBm	PASS
n66	15	20	DFT-QPSK	L	Inner_1RB_Left	0.15	30	-73.31	≤-33dBm	PASS
n66	15	20	DFT-QPSK	L	Inner_1RB_Left	30	1000	-54.74	≤-23dBm	PASS
n66	15	20	DFT-QPSK	L	Inner_1RB_Left	1000	3000	-39.97	≤-13dBm	PASS
n66	15	20	DFT-QPSK	L	Inner_1RB_Left	3000	12000	-45.67	≤-13dBm	PASS
n66	15	20	DFT-QPSK	L	Inner_1RB_Left	12000	20000	-55.38	≤-13dBm	PASS
n66	15	20	DFT-QPSK	M	Inner_1RB_Left	0.009	0.15	-64.98	≤-43dBm	PASS
n66	15	20	DFT-QPSK	M	Inner_1RB_Left	0.15	30	-70.38	≤-33dBm	PASS
n66	15	20	DFT-QPSK	M	Inner_1RB_Left	30	1000	-55.06	≤-23dBm	PASS
n66	15	20	DFT-QPSK	M	Inner_1RB_Left	1000	3000	-38.89	≤-13dBm	PASS
n66	15	20	DFT-QPSK	M	Inner_1RB_Left	3000	12000	-45.76	≤-13dBm	PASS
n66	15	20	DFT-QPSK	M	Inner_1RB_Left	12000	20000	-55.41	≤-13dBm	PASS
n66	15	20	DFT-QPSK	H	Inner_1RB_Left	0.009	0.15	-65.47	≤-43dBm	PASS
n66	15	20	DFT-QPSK	H	Inner_1RB_Left	0.15	30	-70.63	≤-33dBm	PASS
n66	15	20	DFT-QPSK	H	Inner_1RB_Left	30	1000	-55.00	≤-23dBm	PASS
n66	15	20	DFT-QPSK	H	Inner_1RB_Left	1000	3000	-37.17	≤-13dBm	PASS
n66	15	20	DFT-QPSK	H	Inner_1RB_Left	3000	12000	-45.73	≤-13dBm	PASS
n66	15	20	DFT-QPSK	H	Inner_1RB_Left	12000	20000	-55.35	≤-13dBm	PASS

Test Graphs



NTNV-n66-PC3-15-20-L-DFT-QPSK-Inner_1RB_Left-0.009-0.15MHz-PASS



NTNV-n66-PC3-15-20-L-DFT-QPSK-Inner_1RB_Left-0.15-30MHz-PASS



NTNV-n66-PC3-15-20-L-DFT-QPSK-Inner_1RB_Left-30-1000MHz-PASS



NTNV-n66-PC3-15-20-L-DFT-QPSK-Inner_1RB_Left-1000-3000MHz-PASS



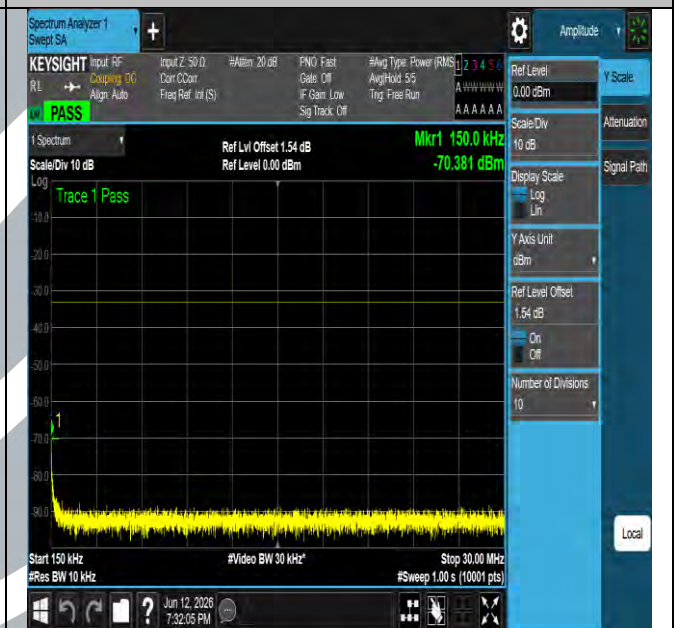
NTNV-n66-PC3-15-20-L-DFT-QPSK-Inner_1RB_Left-3000-12000MHz-PASS



NTNV-n66-PC3-15-20-L-DFT-QPSK-Inner_1RB_Left-12000-20000MHz-PASS

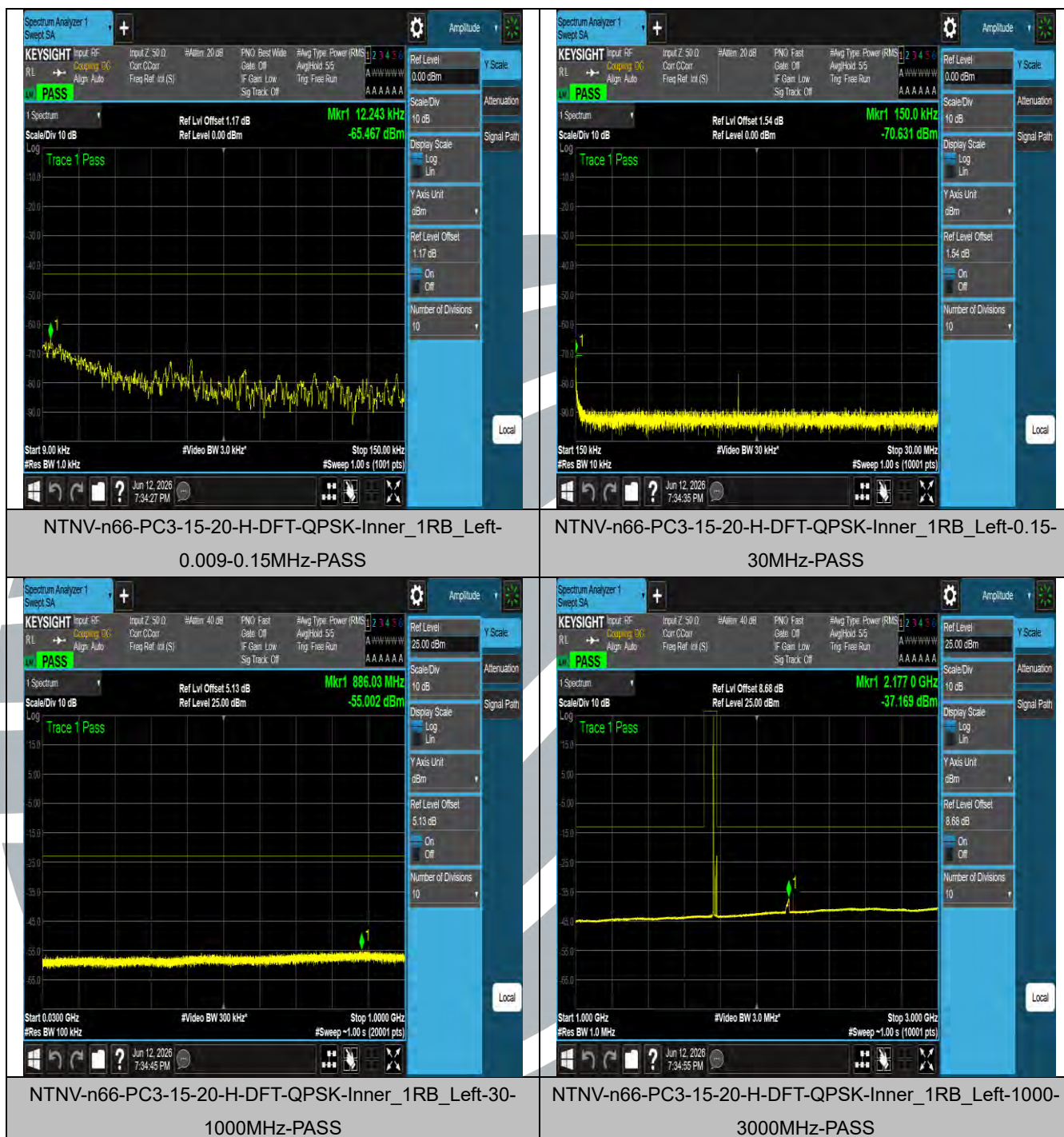


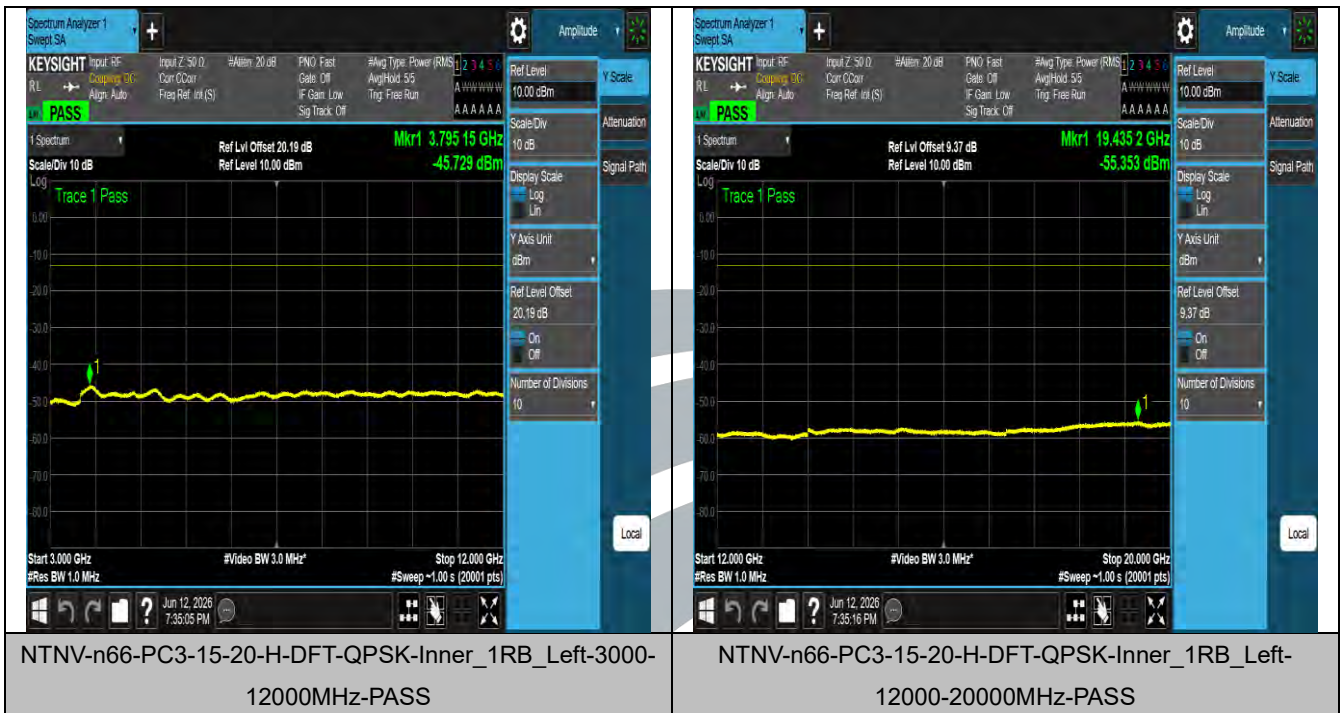
NTNV-n66-PC3-15-20-M-DFT-QPSK-Inner_1RB_Left-0.009-0.15MHz-PASS



NTNV-n66-PC3-15-20-M-DFT-QPSK-Inner_1RB_Left-0.15-30MHz-PASS







R.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
n66	15	20	DFT-QPSK	M	Outer_Full	VL	NT	- 0.000844	1710- 1780	1710	1780	1710- 1780	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	VN	NT	- 0.003071	1710- 1780	1710	1780	1710- 1780	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	VH	NT	- 0.002391	1710- 1780	1710	1780	1710- 1780	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
n66	15	20	DFT-QPSK	M	Outer_Full	NV	-30	-0.036543	1710-1780	1710	1780	1710- 1780	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	NV	-20	-0.002635	1710-1780	1710	1780	1710- 1780	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	NV	-10	0.001975	1710-1780	1710	1780	1710- 1780	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	NV	0	-0.003499	1710-1780	1710	1780	1710- 1780	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	NV	10	0.012101	1710-1780	1710	1780	1710- 1780	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	NV	20	0.073944	1710-1780	1710	1780	1710- 1780	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	NV	30	-0.013474	1710-1780	1710	1780	1710- 1780	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	NV	40	0.01406	1710-1780	1710	1780	1710- 1780	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	NV	50	0.026436	1710-1780	1710	1780	1710- 1780	PASS