





Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SC S (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Voltage (V)	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	VL	NT	-41.232	-0.011934	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	VN	NT	-39.639	-0.011473	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	VH	NT	-40.567	-0.011742	PASS
n77(3450-3550)	30	10	DFT-QPSK	H	Outer_Full	VL	NT	-15.685	-0.004425	PASS
n77(3450-3550)	30	10	DFT-QPSK	H	Outer_Full	VN	NT	-40.577	-0.011446	PASS
n77(3450-3550)	30	10	DFT-QPSK	H	Outer_Full	VH	NT	-41.492	-0.011704	PASS

Frequency Error VS. Temperature

Temperature										
Band	SC S (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Voltage	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	NV	-30	-11.601	-0.003358	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	NV	-20	-17.479	-0.005059	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	NV	-10	-18.007	-0.005212	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	NV	0	-18.652	-0.005399	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	NV	10	-10.846	-0.003139	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	NV	20	-0.515	-0.000149	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	NV	30	-6.907	-0.001999	PASS



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n77(34 50- 3550)	30	10	DFT- QPSK	L	Outer_F ull	NV	40	-6.966	- 0.0020 16	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	L	Outer_F ull	NV	50	-4.781	- 0.0013 84	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	H	Outer_F ull	NV	-30	-29.59	- 0.0083 47	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	H	Outer_F ull	NV	-20	-29.222	- 0.0082 43	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	H	Outer_F ull	NV	-10	-16.853	- 0.0047 54	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	H	Outer_F ull	NV	0	-16.856	- 0.0047 55	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	H	Outer_F ull	NV	10	-15.27	- 0.0043 07	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	H	Outer_F ull	NV	20	-10.805	- 0.0030 48	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	H	Outer_F ull	NV	30	-12.442	- 0.0035 1	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	H	Outer_F ull	NV	40	-10.835	- 0.0030 56	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	H	Outer_F ull	NV	50	-6.99	- 0.0019 72	PAS S



FCC-SA-N77(3700-3980)

Peak-to-Average Ratio for SA

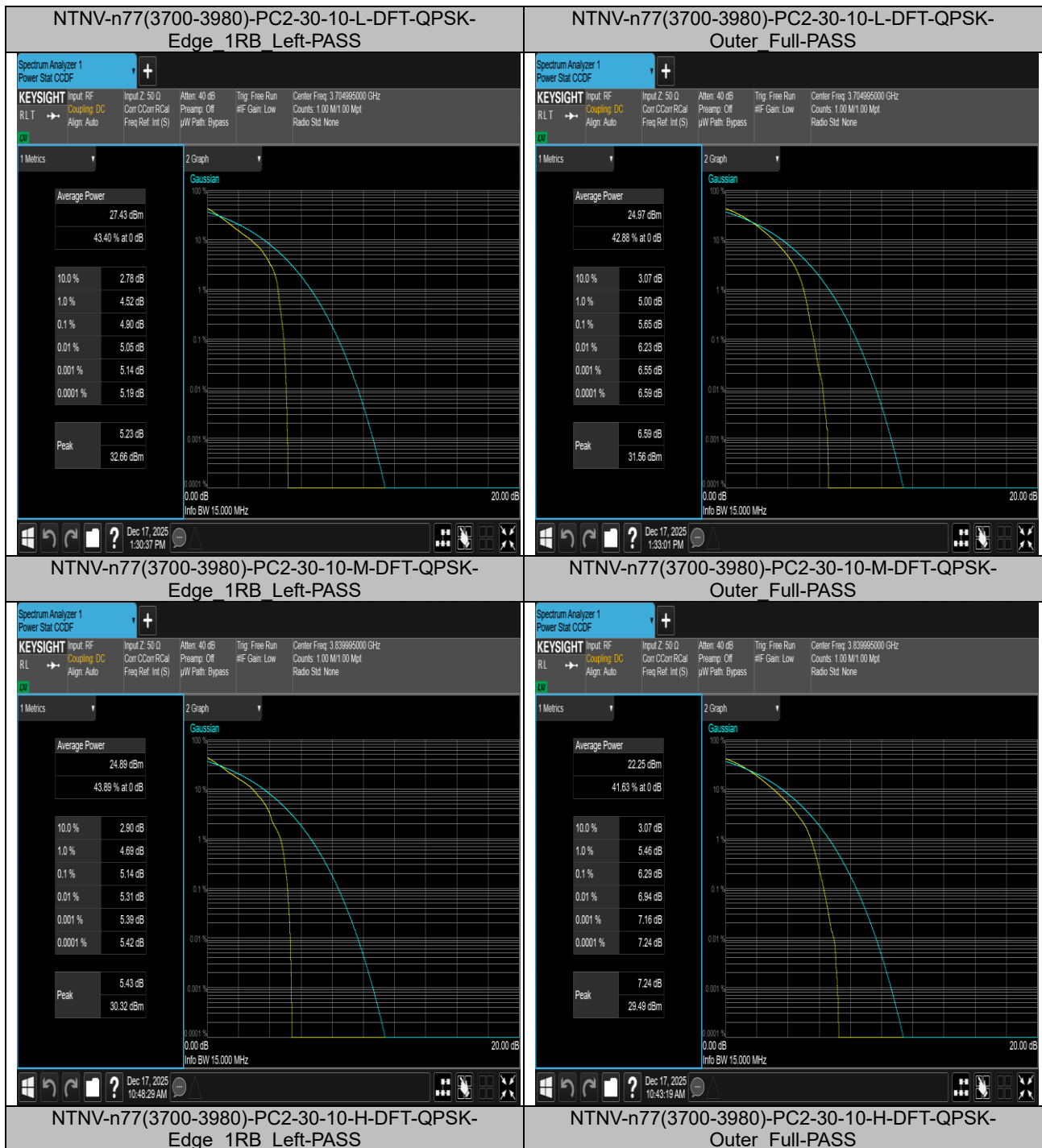
Peak-to-Average Ratio(CCDF)

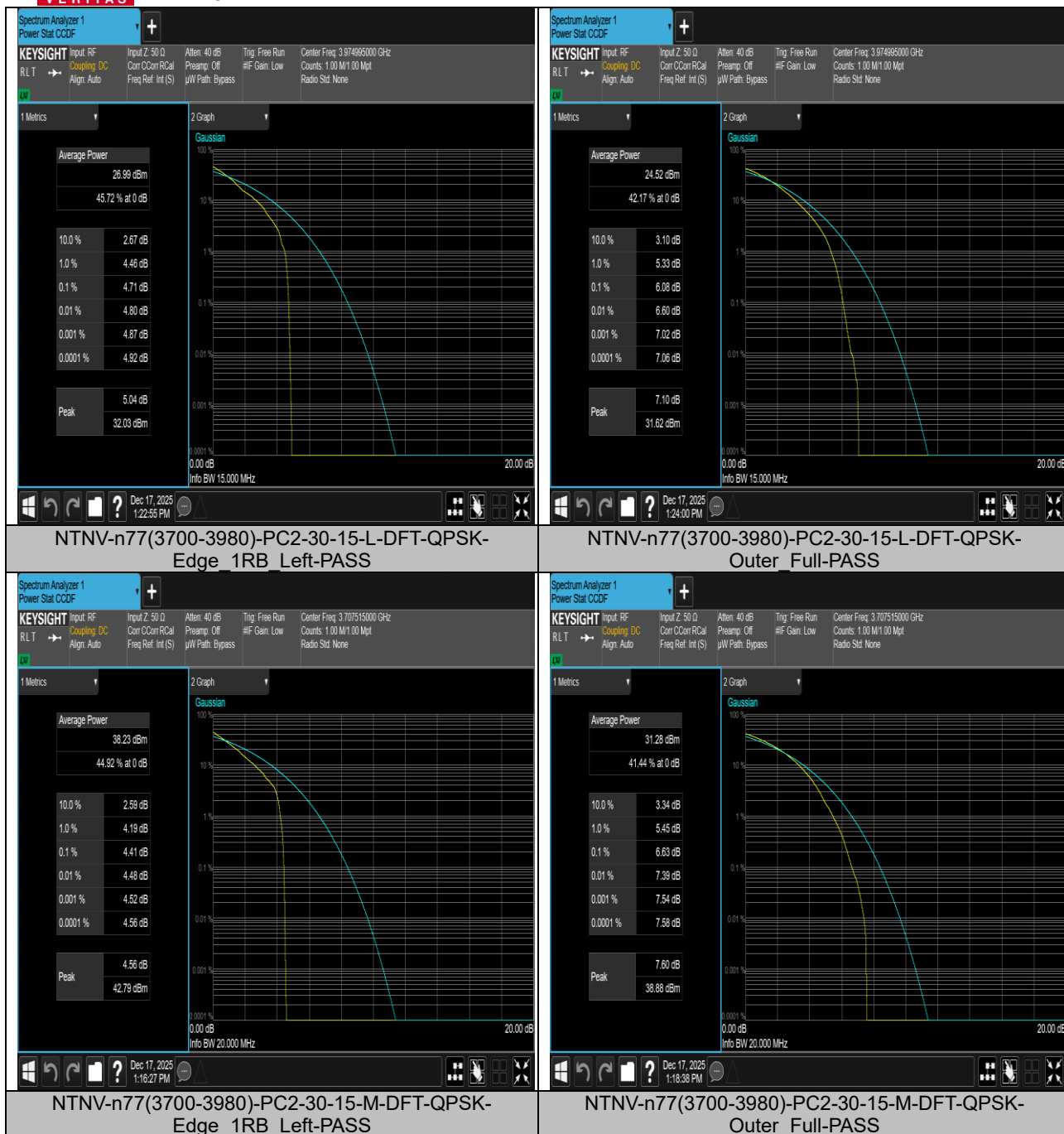
Test Result

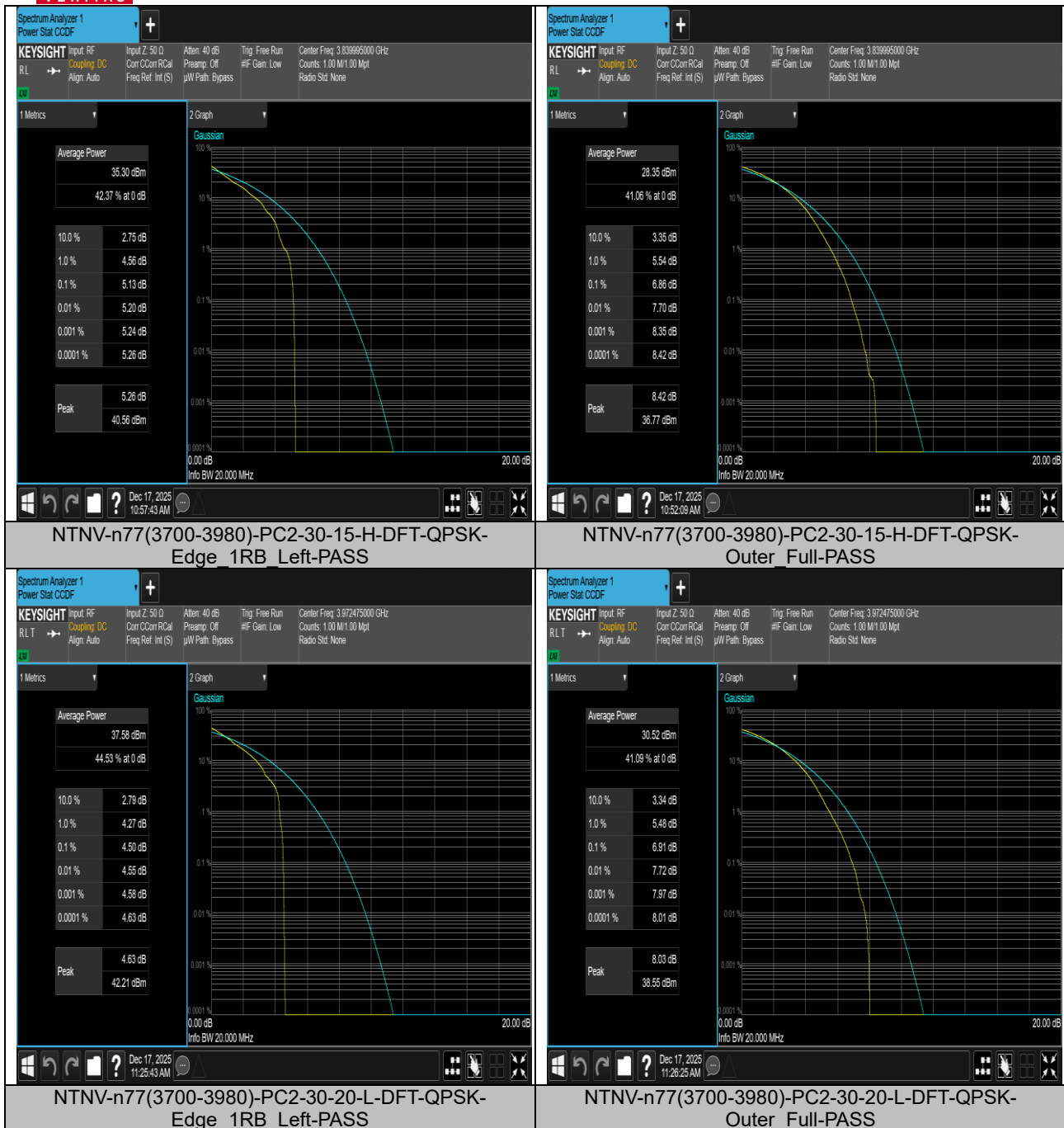
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Result (dB)	Limit	Verdict
n77(3700-3980)	30	10	DFT-QPSK	L	Edge 1RB Left	4.9	≤13dB	PASS
n77(3700-3980)	30	10	DFT-QPSK	L	Outer Full	5.65	≤13dB	PASS
n77(3700-3980)	30	10	DFT-QPSK	M	Edge 1RB Left	5.14	≤13dB	PASS
n77(3700-3980)	30	10	DFT-QPSK	M	Outer Full	6.29	≤13dB	PASS
n77(3700-3980)	30	10	DFT-QPSK	H	Edge 1RB Left	4.71	≤13dB	PASS
n77(3700-3980)	30	10	DFT-QPSK	H	Outer Full	6.08	≤13dB	PASS
n77(3700-3980)	30	15	DFT-QPSK	L	Edge 1RB Left	4.41	≤13dB	PASS
n77(3700-3980)	30	15	DFT-QPSK	L	Outer Full	6.63	≤13dB	PASS
n77(3700-3980)	30	15	DFT-QPSK	M	Edge 1RB Left	5.13	≤13dB	PASS
n77(3700-3980)	30	15	DFT-QPSK	M	Outer Full	6.86	≤13dB	PASS
n77(3700-3980)	30	15	DFT-QPSK	H	Edge 1RB Left	4.5	≤13dB	PASS
n77(3700-3980)	30	15	DFT-QPSK	H	Outer Full	6.91	≤13dB	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Edge 1RB Left	4.13	≤13dB	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer Full	6.7	≤13dB	PASS
n77(3700-3980)	30	20	DFT-QPSK	M	Edge 1RB Left	4.5	≤13dB	PASS
n77(3700-3980)	30	20	DFT-QPSK	M	Outer Full	7.04	≤13dB	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Edge 1RB Left	4.55	≤13dB	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer Full	5.99	≤13dB	PASS

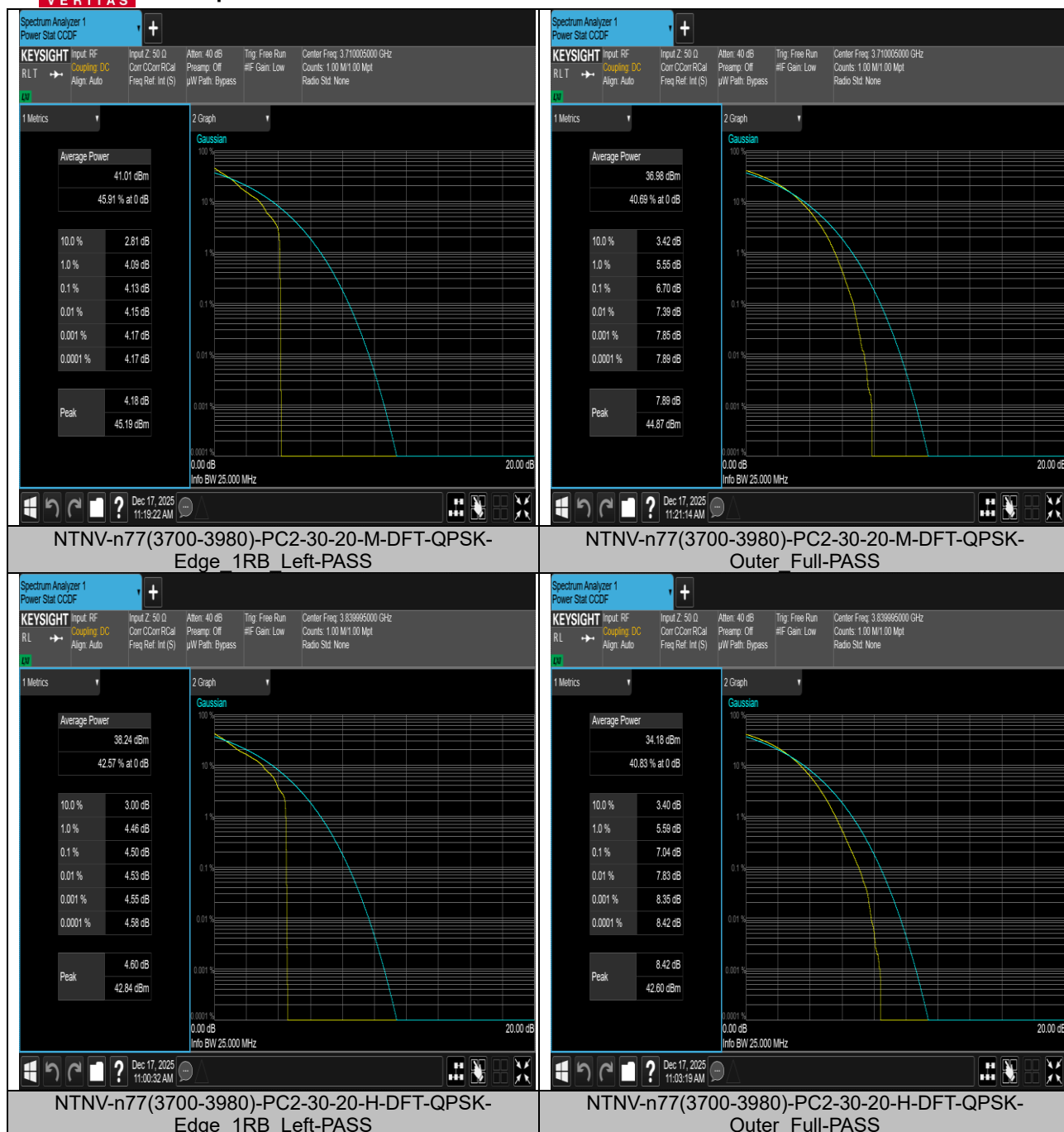


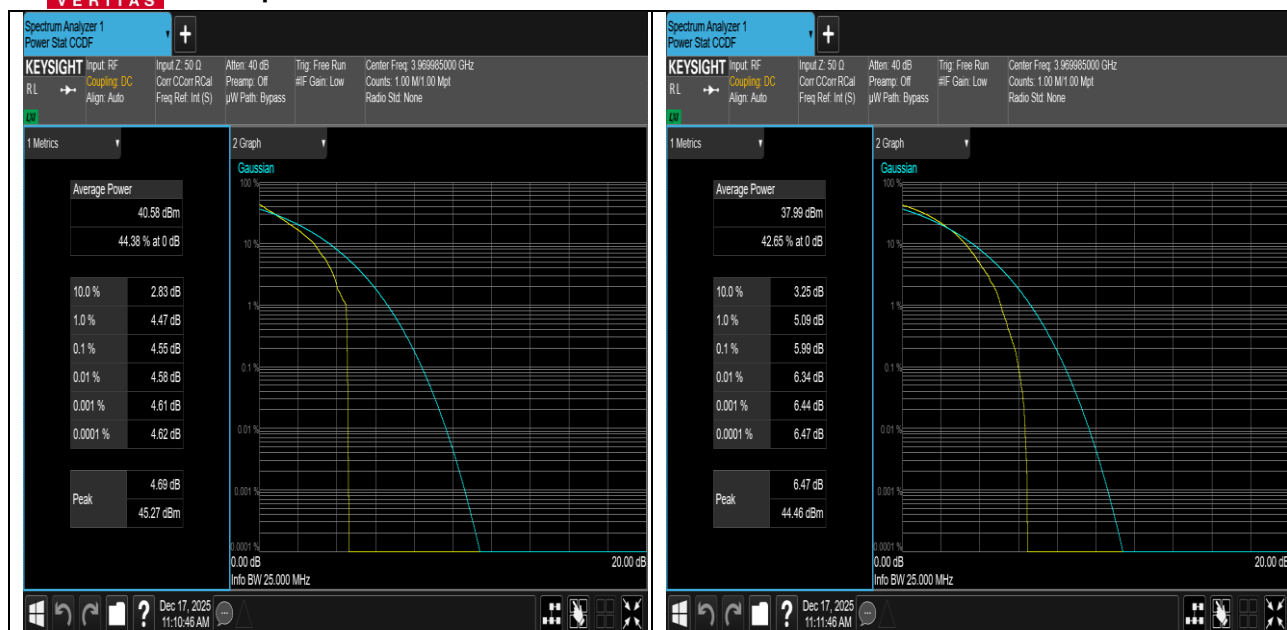
Test Graphs











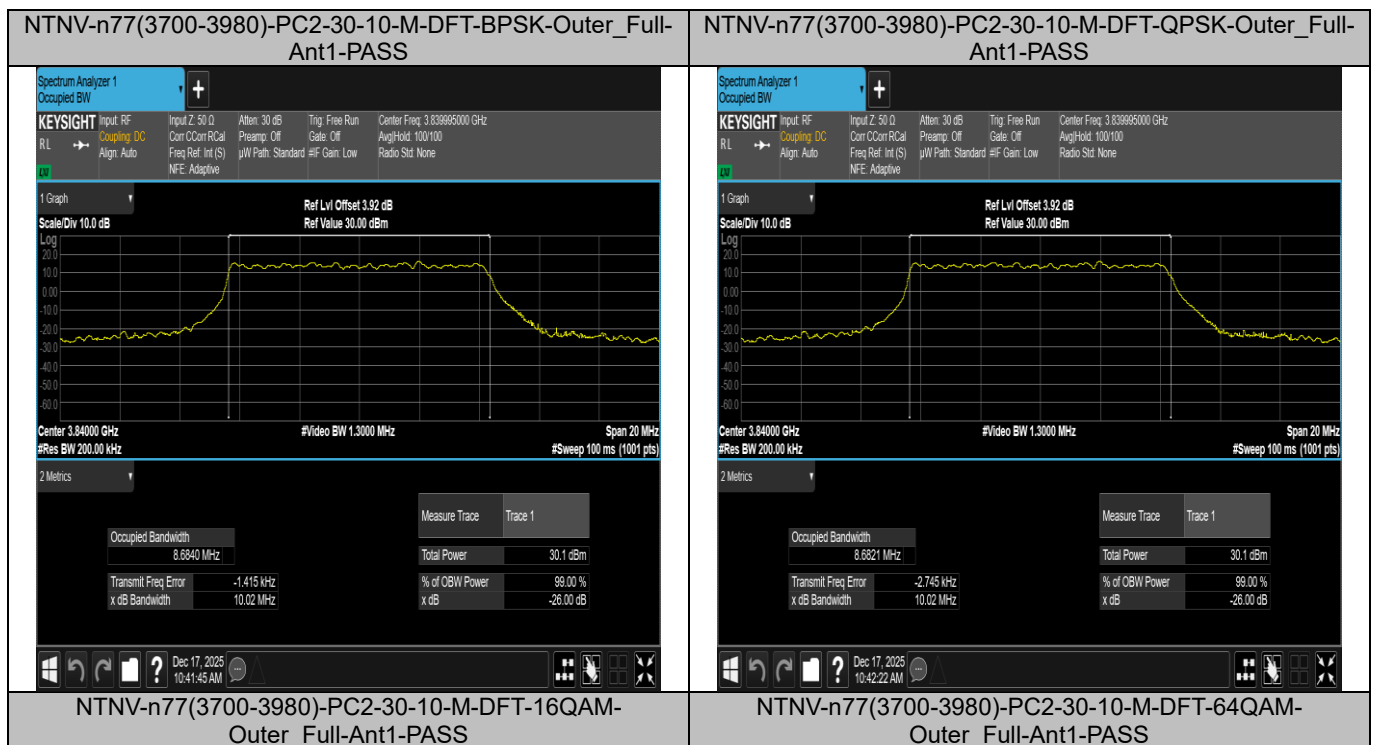


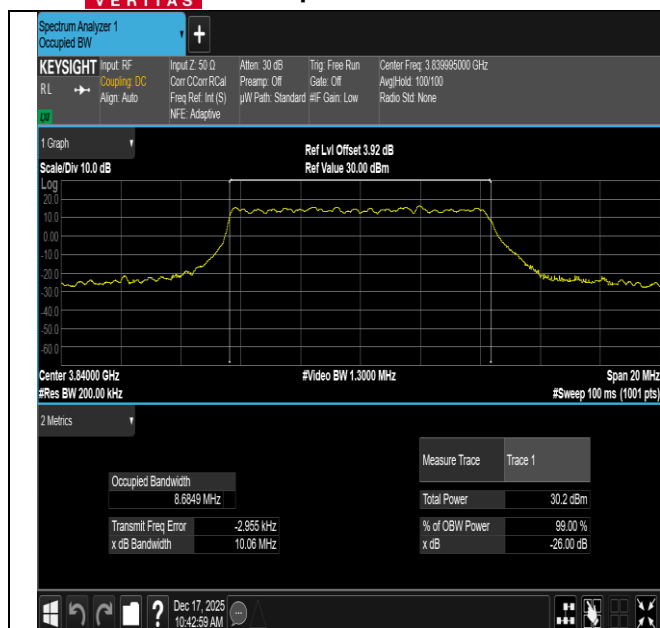
26dB Bandwidth and Occupied Bandwidth for SA

Test Result

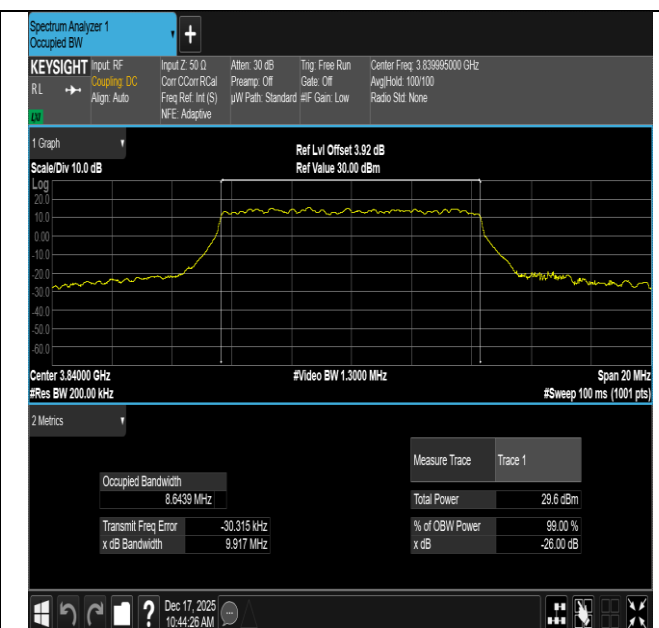
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	OBW (MHz)	EBW (MHz)	Verdict
n77(3700-3980)	30	10	DFT-BPSK	M	Outer_Full	8.6840	10.02	PASS
n77(3700-3980)	30	10	DFT-QPSK	M	Outer_Full	8.6821	10.02	PASS
n77(3700-3980)	30	10	DFT-16QAM	M	Outer_Full	8.6849	10.06	PASS
n77(3700-3980)	30	10	DFT-64QAM	M	Outer_Full	8.6439	9.917	PASS
n77(3700-3980)	30	10	DFT-256QAM	M	Outer_Full	8.6461	10.16	PASS
n77(3700-3980)	30	15	DFT-BPSK	M	Outer_Full	12.966	14.44	PASS
n77(3700-3980)	30	15	DFT-QPSK	M	Outer_Full	12.963	14.43	PASS
n77(3700-3980)	30	15	DFT-16QAM	M	Outer_Full	12.966	14.44	PASS
n77(3700-3980)	30	15	DFT-64QAM	M	Outer_Full	12.920	14.10	PASS
n77(3700-3980)	30	15	DFT-256QAM	M	Outer_Full	12.901	14.49	PASS
n77(3700-3980)	30	20	DFT-BPSK	M	Outer_Full	17.848	19.34	PASS
n77(3700-3980)	30	20	DFT-QPSK	M	Outer_Full	17.849	19.37	PASS
n77(3700-3980)	30	20	DFT-16QAM	M	Outer_Full	17.848	19.36	PASS
n77(3700-3980)	30	20	DFT-64QAM	M	Outer_Full	17.923	19.46	PASS
n77(3700-3980)	30	20	DFT-256QAM	M	Outer_Full	17.941	19.38	PASS

Test Graphs

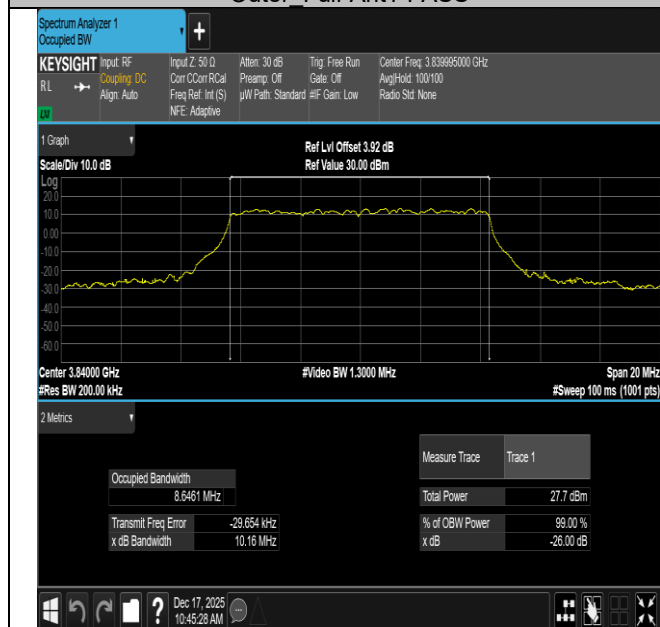




NTNV-n77(3700-3980)-PC2-30-10-M-DFT-256QAM-Outer_Full-Ant1-PASS



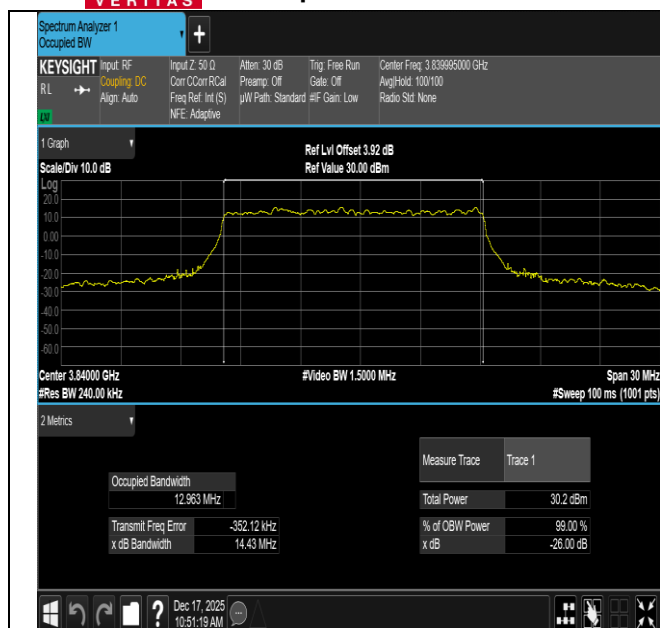
NTNV-n77(3700-3980)-PC2-30-15-M-DFT-BPSK-Outer_Full-Ant1-PASS



NTNV-n77(3700-3980)-PC2-30-15-M-DFT-QPSK-Outer_Full-Ant1-PASS



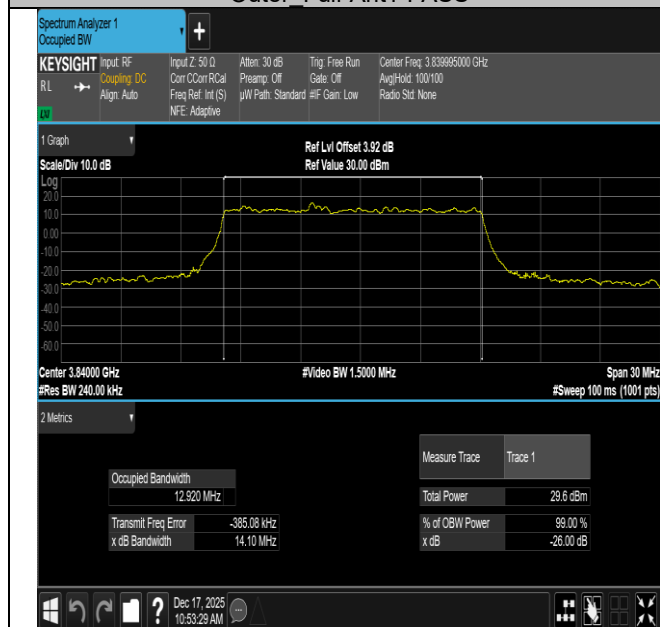
NTNV-n77(3700-3980)-PC2-30-15-M-DFT-16QAM-Outer_Full-Ant1-PASS



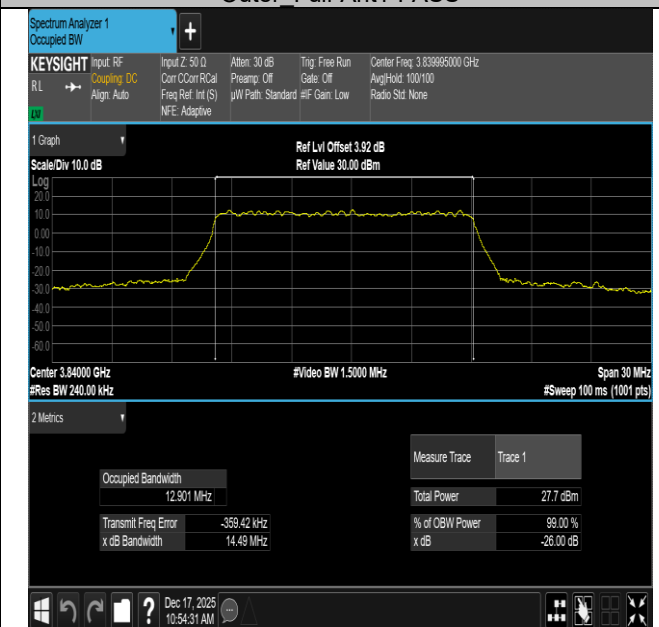
NTNV-n77(3700-3980)-PC2-30-15-M-DFT-64QAM-Outer Full-Ant1-PASS



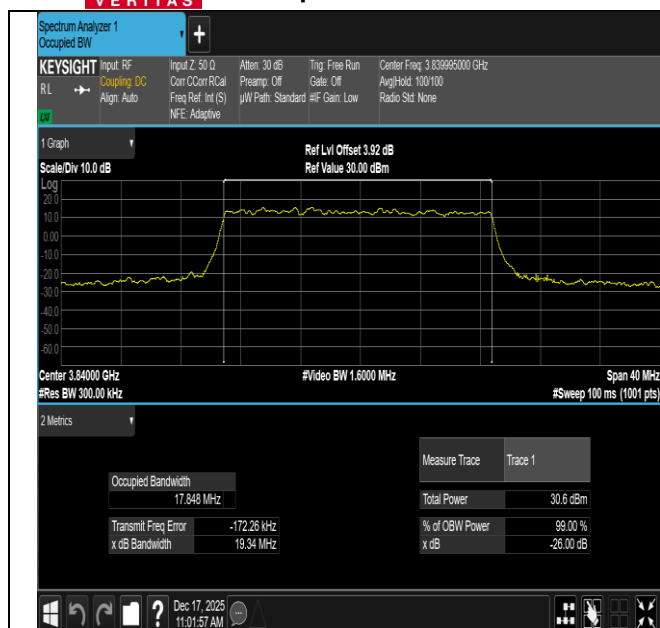
NTNV-n77(3700-3980)-PC2-30-15-M-DFT-256QAM-Outer Full-Ant1-PASS



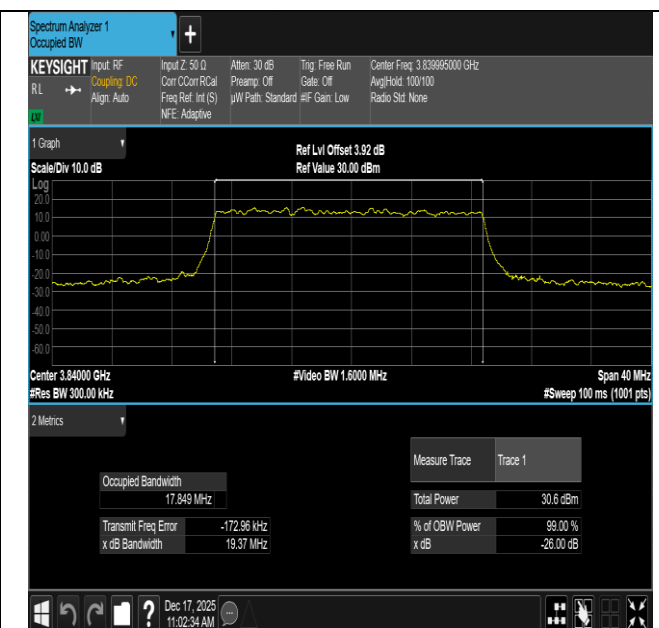
NTNV-n77(3700-3980)-PC2-30-20-M-DFT-BPSK-Outer_Full-Ant1-PASS



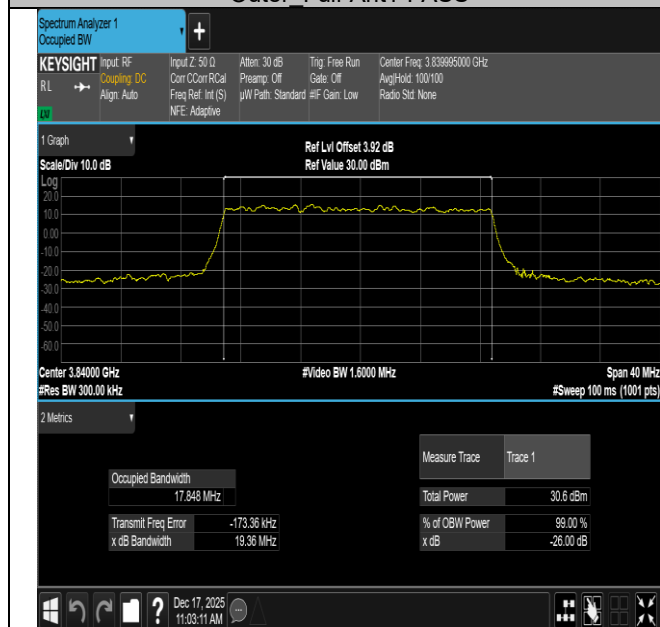
NTNV-n77(3700-3980)-PC2-30-20-M-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-n77(3700-3980)-PC2-30-20-M-DFT-16QAM-Outer Full-Ant1-PASS



NTNV-n77(3700-3980)-PC2-30-20-M-DFT-64QAM-Outer Full-Ant1-PASS

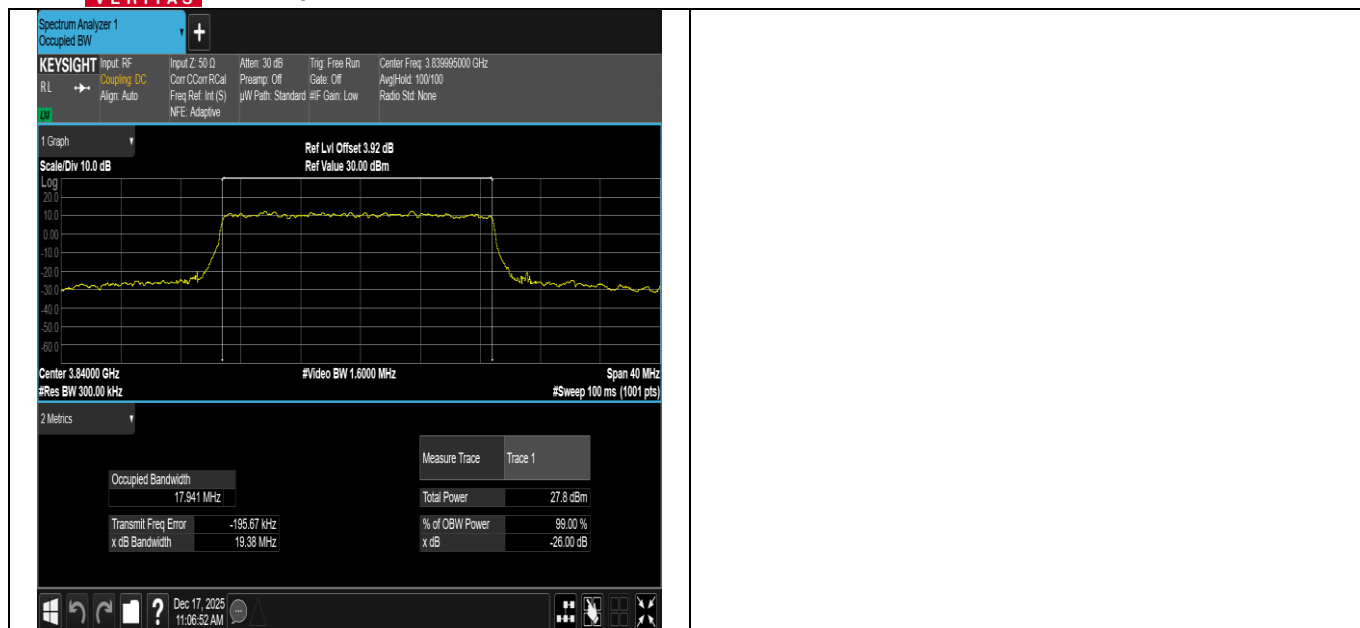


NTNV-n77(3700-3980)-PC2-30-20-M-DFT-256QAM-Outer Full-Ant1-PASS





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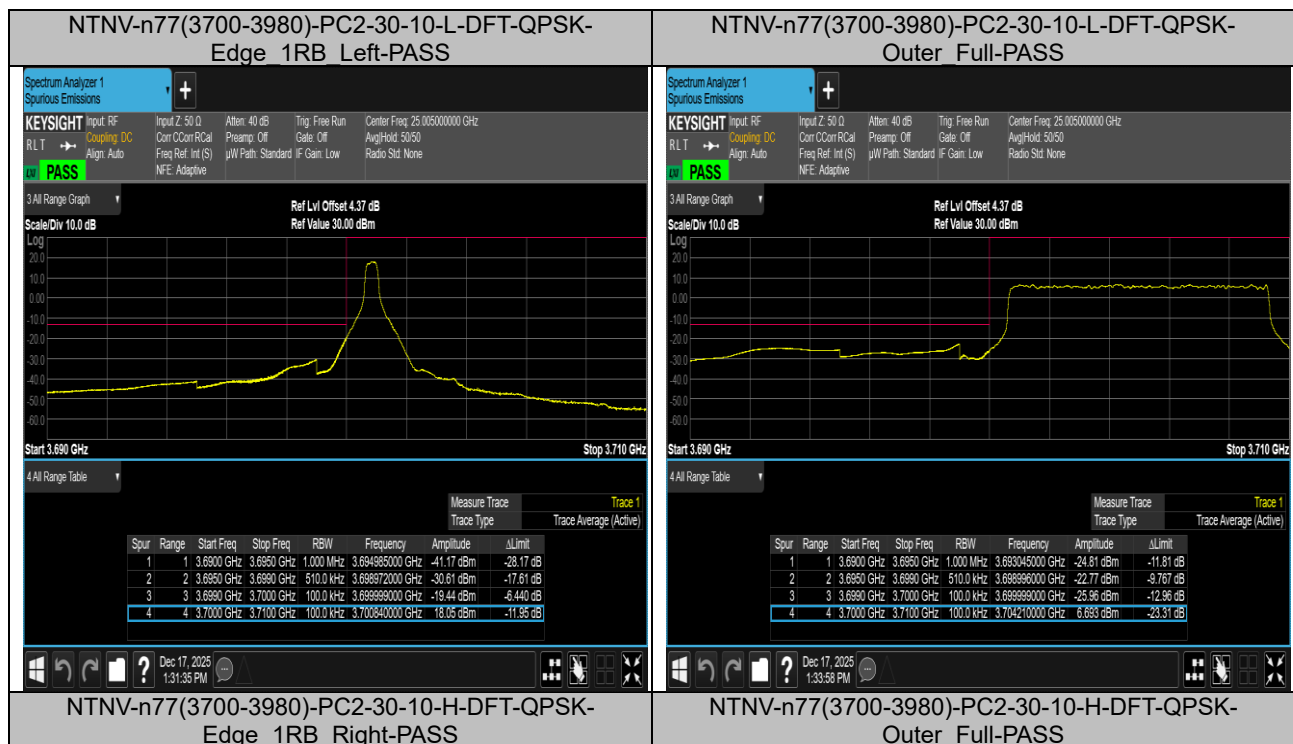


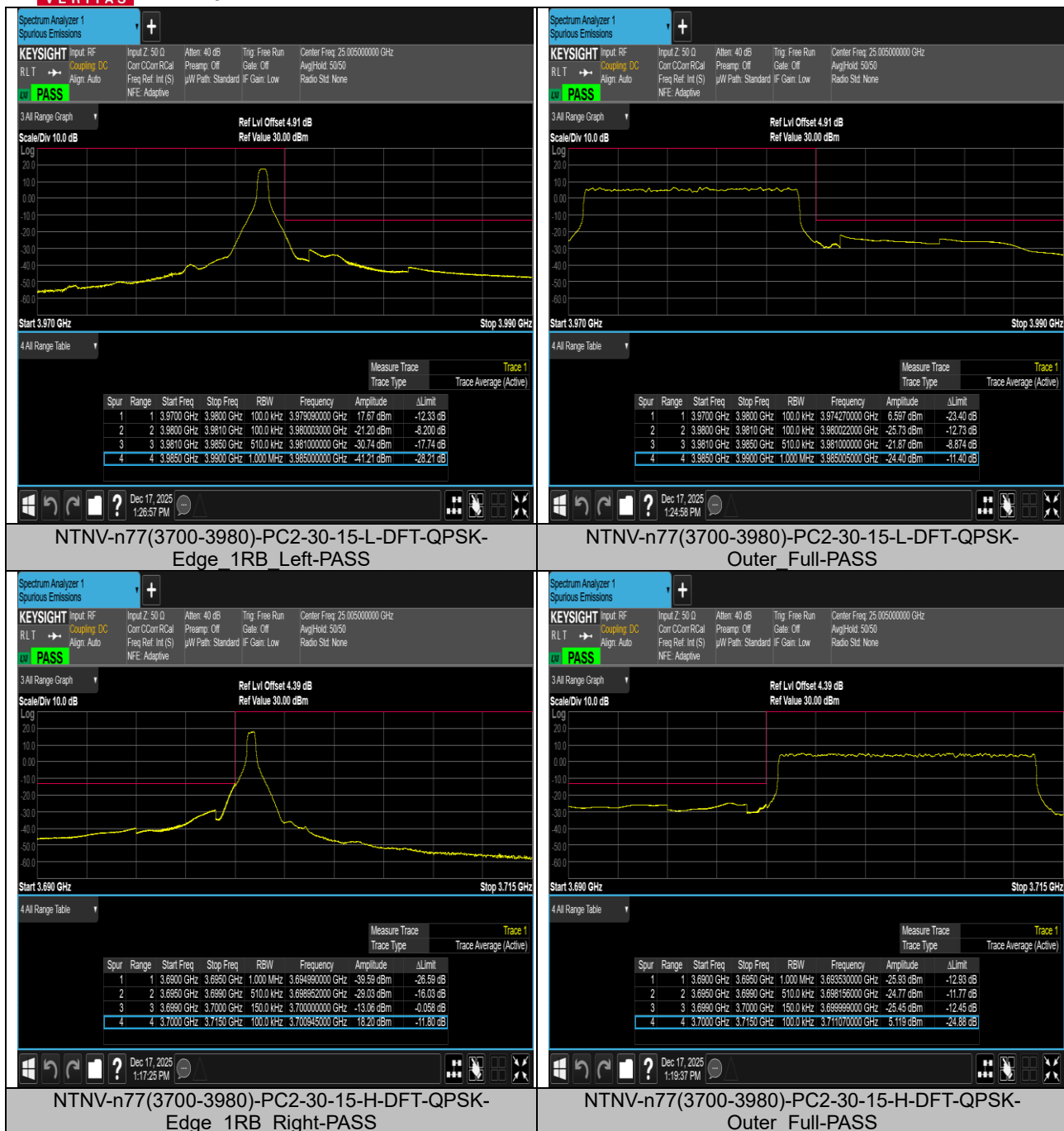
Band Edge for SA

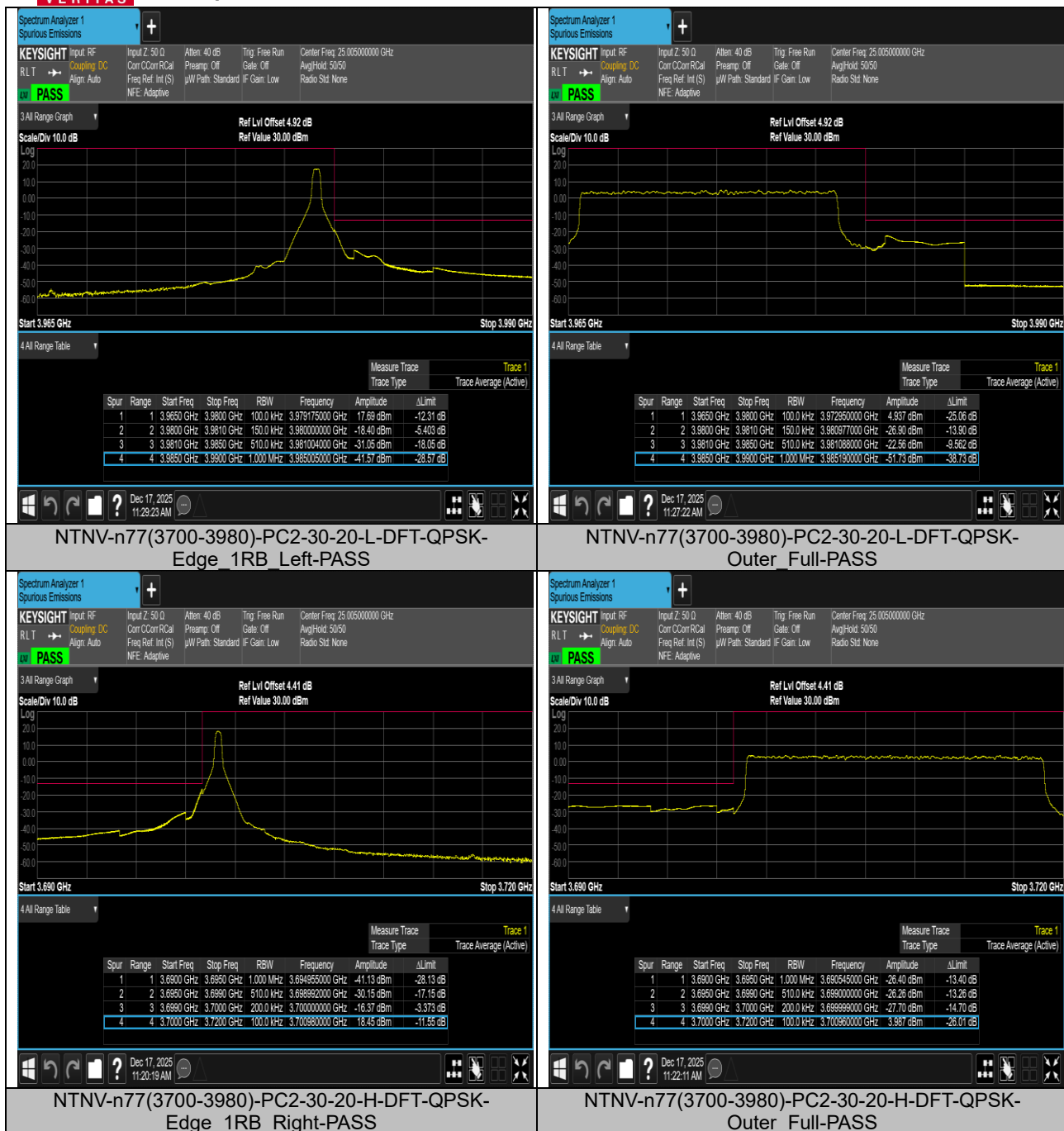
Test Result

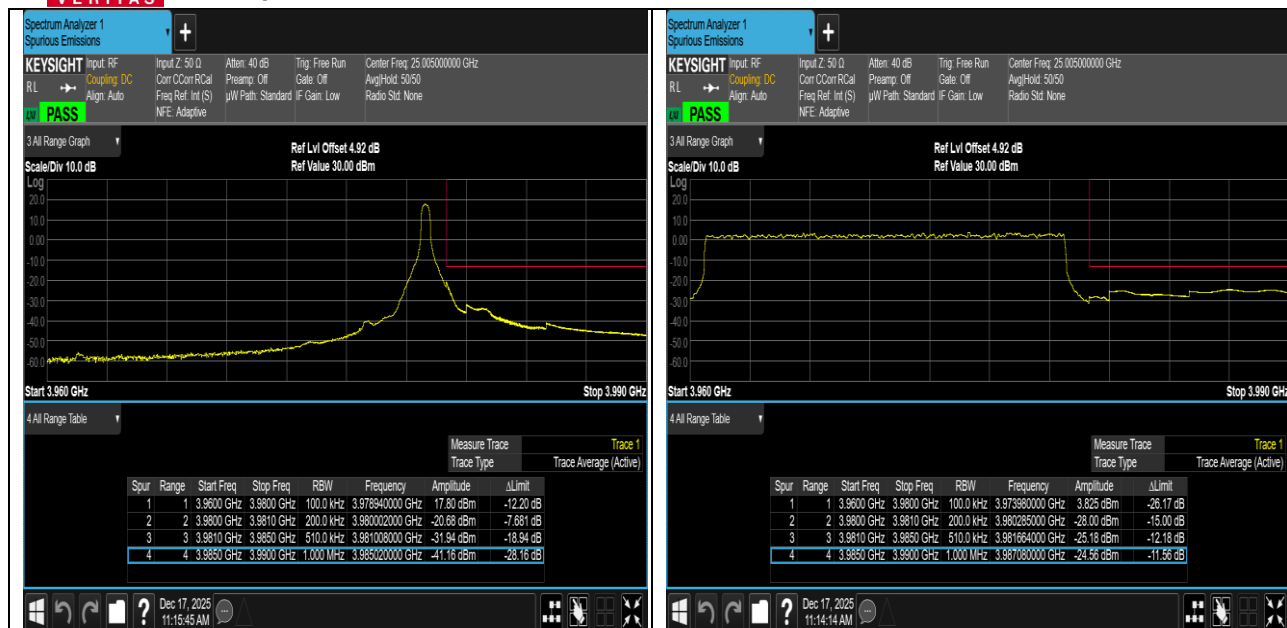
Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	Result (dBm)	Verdict
n77(3700-3980)	30	10	DFT-QPSK	L	Edge_1RB_Left	-19.44	PASS
n77(3700-3980)	30	10	DFT-QPSK	L	Outer_Full	-22.77	PASS
n77(3700-3980)	30	10	DFT-QPSK	H	Edge_1RB_Right	-21.20	PASS
n77(3700-3980)	30	10	DFT-QPSK	H	Outer_Full	-21.87	PASS
n77(3700-3980)	30	15	DFT-QPSK	L	Edge_1RB_Left	-13.06	PASS
n77(3700-3980)	30	15	DFT-QPSK	L	Outer_Full	-24.77	PASS
n77(3700-3980)	30	15	DFT-QPSK	H	Edge_1RB_Right	-18.40	PASS
n77(3700-3980)	30	15	DFT-QPSK	H	Outer_Full	-22.56	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Edge_1RB_Left	-16.37	PASS
n77(3700-3980)	30	20	DFT-QPSK	L	Outer_Full	-26.26	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Edge_1RB_Right	-20.68	PASS
n77(3700-3980)	30	20	DFT-QPSK	H	Outer_Full	-24.56	PASS

Test Graphs









**Conducted Spurious Emission for SA****Test Result**

Band	SC S (kHz)	Bandwidth (MHz)	Modulation	Channel	RB Config	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit	Verdict
n77(3700-3980)	30	10	DFT-QPSK	L	Edge_1RB_Left	0.009	0.15	-72.75	≤-43dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	L	Edge_1RB_Left	0.15	30	-67.76	≤-33dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	L	Edge_1RB_Left	30	1000	-64.77	≤-23dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-57.83	≤-13dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	L	Edge_1RB_Left	3000	6000	-45.09	≤-13dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	L	Edge_1RB_Left	6000	26000	-38.81	≤-13dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	L	Edge_1RB_Left	26000	40000	-58.54	≤-13dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	M	Edge_1RB_Left	0.009	0.15	-75.76	≤-43dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	M	Edge_1RB_Left	0.15	30	-71.85	≤-33dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	M	Edge_1RB_Left	30	1000	-65.48	≤-23dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-58.45	≤-13dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	M	Edge_1RB_Left	3000	6000	-49.59	≤-13dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	M	Edge_1RB_Left	6000	26000	-36.60	≤-13dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	M	Edge_1RB_Left	26000	40000	-57.19	≤-13dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	H	Edge_1RB_Left	0.009	0.15	-74.72	≤-43dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	H	Edge_1RB_Left	0.15	30	-67.89	≤-33dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	H	Edge_1RB_Left	30	1000	-65.23	≤-23dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-57.66	≤-13dBm	PASS
n77(3700-3980)	30	10	DFT-QPSK	H	Edge_1RB_Left	3000	6000	-46.9	≤-13dBm	PASS


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n77(370 0-3980)	30	10	DFT- QPSK	H	Edge_1RB_ Left	6000	26000	- 43.9 4	≤- 13dB m	PAS S
n77(370 0-3980)	30	10	DFT- QPSK	H	Edge_1RB_ Left	26000	40000	- 59.0 6	≤- 13dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	L	Edge_1RB_ Left	0.009	0.15	- 73.7 2	≤- 43dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	L	Edge_1RB_ Left	0.15	30	- 68.8 5	≤- 33dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	L	Edge_1RB_ Left	30	1000	- 65.6 6	≤- 23dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	L	Edge_1RB_ Left	1000	3000	- 57.7 3	≤- 13dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	L	Edge_1RB_ Left	3000	6000	- 45.3 9	≤- 13dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	L	Edge_1RB_ Left	6000	26000	- 38.3 8	≤- 13dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	L	Edge_1RB_ Left	26000	40000	- 58.0 4	≤- 13dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	M	Edge_1RB_ Left	0.009	0.15	- 77.0 9	≤- 43dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	M	Edge_1RB_ Left	0.15	30	- 73.5 7	≤- 33dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	M	Edge_1RB_ Left	30	1000	- 65.7 9	≤- 23dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	M	Edge_1RB_ Left	1000	3000	- 58.1 6	≤- 13dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	M	Edge_1RB_ Left	3000	6000	- 49.9 3	≤- 13dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	M	Edge_1RB_ Left	6000	26000	- 36.0 1	≤- 13dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	M	Edge_1RB_ Left	26000	40000	- 59.3 7	≤- 13dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	H	Edge_1RB_ Left	0.009	0.15	- 72.9 1	≤- 43dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	H	Edge_1RB_ Left	0.15	30	- 68.8 9	≤- 33dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	H	Edge_1RB_ Left	30	1000	- 65.6 1	≤- 23dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	H	Edge_1RB_ Left	1000	3000	- 58.4 6	≤- 13dB m	PAS S
n77(370 0-3980)	30	15	DFT- QPSK	H	Edge_1RB_ Left	3000	6000	- 46.0 2	≤- 13dB m	PAS S
n77(370)	30	15	DFT-	H	Edge_1RB_	6000	26000	-	≤-	PAS

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0-3980)			QPSK		Left			43.7 9	13dB m	S
n77(370 0-3980)	30	15	DFT- QPSK	H	Edge_1RB_ Left	26000	40000	- 58.4 2	≤- 13dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	L	Edge_1RB_ Left	0.009	0.15	- 71.8 8	≤- 43dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	L	Edge_1RB_ Left	0.15	30	- 67.0 8	≤- 33dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	L	Edge_1RB_ Left	30	1000	- 64.8 7	≤- 23dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	L	Edge_1RB_ Left	1000	3000	- 58.2 0	≤- 13dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	L	Edge_1RB_ Left	3000	6000	- 46.1 1	≤- 13dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	L	Edge_1RB_ Left	6000	26000	- 38.1 3	≤- 13dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	L	Edge_1RB_ Left	26000	40000	- 59.1 2	≤- 13dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	M	Edge_1RB_ Left	0.009	0.15	- 77.6 0	≤- 43dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	M	Edge_1RB_ Left	0.15	30	- 72.1 2	≤- 33dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	M	Edge_1RB_ Left	30	1000	- 65.2 6	≤- 23dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	M	Edge_1RB_ Left	1000	3000	- 58.2 0	≤- 13dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	M	Edge_1RB_ Left	3000	6000	- 47.5 4	≤- 13dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	M	Edge_1RB_ Left	6000	26000	- 36.5 4	≤- 13dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	M	Edge_1RB_ Left	26000	40000	- 58.4 4	≤- 13dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	H	Edge_1RB_ Left	0.009	0.15	- 73.8 2	≤- 43dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	H	Edge_1RB_ Left	0.15	30	- 69.7 7	≤- 33dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	H	Edge_1RB_ Left	30	1000	- 65.3 8	≤- 23dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	H	Edge_1RB_ Left	1000	3000	- 58.5 0	≤- 13dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	H	Edge_1RB_ Left	3000	6000	- 45.5 9	≤- 13dB m	PAS S
n77(370 0-3980)	30	20	DFT- QPSK	H	Edge_1RB_ Left	6000	26000	- 43.6 5	≤- 13dB m	PAS S

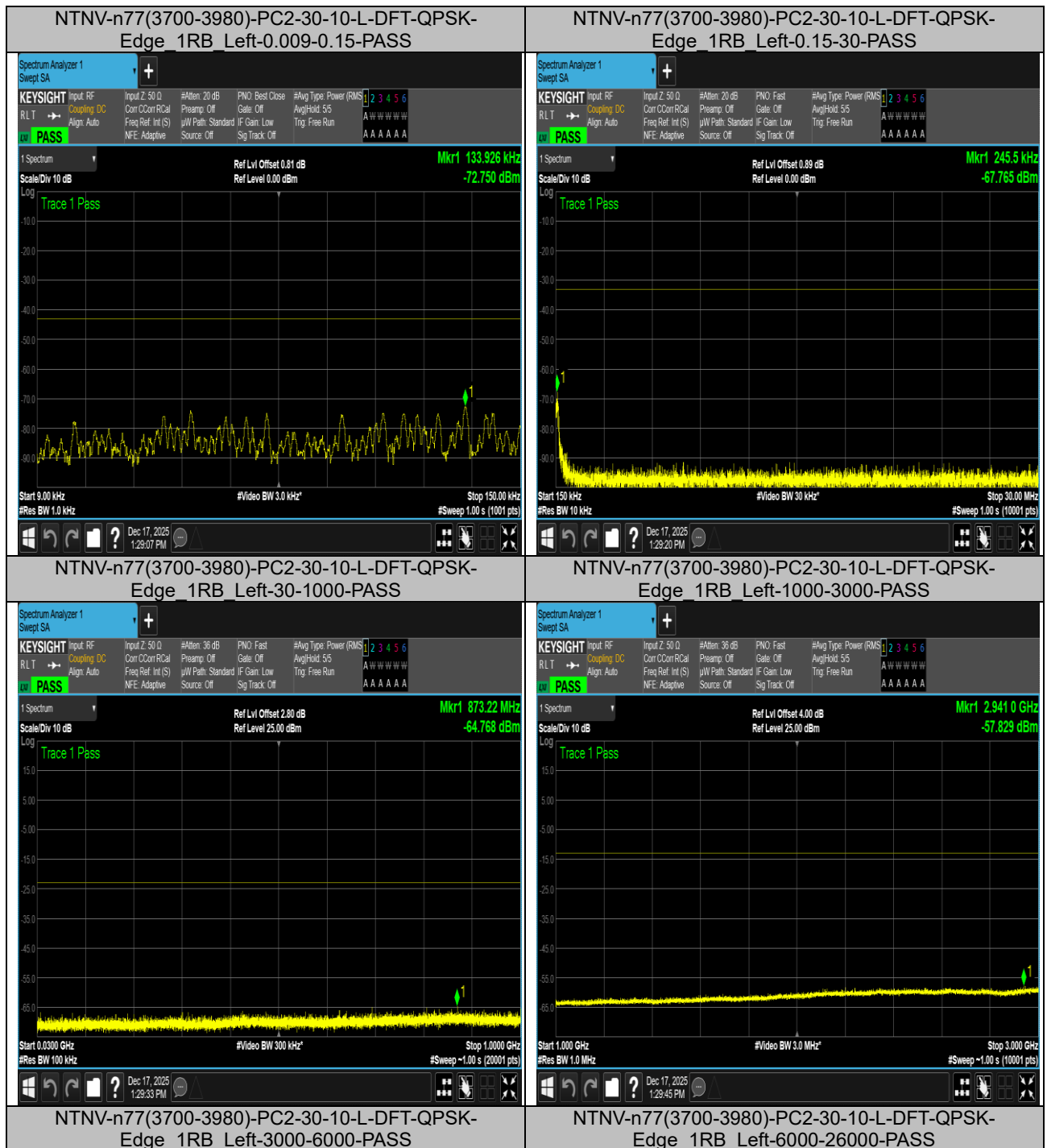


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n77(370 0-3980)	30	20	DFT- QPSK	H	Edge_1RB_ Left	26000	40000	- 58.7 0	≤- 13dB m	PAS S
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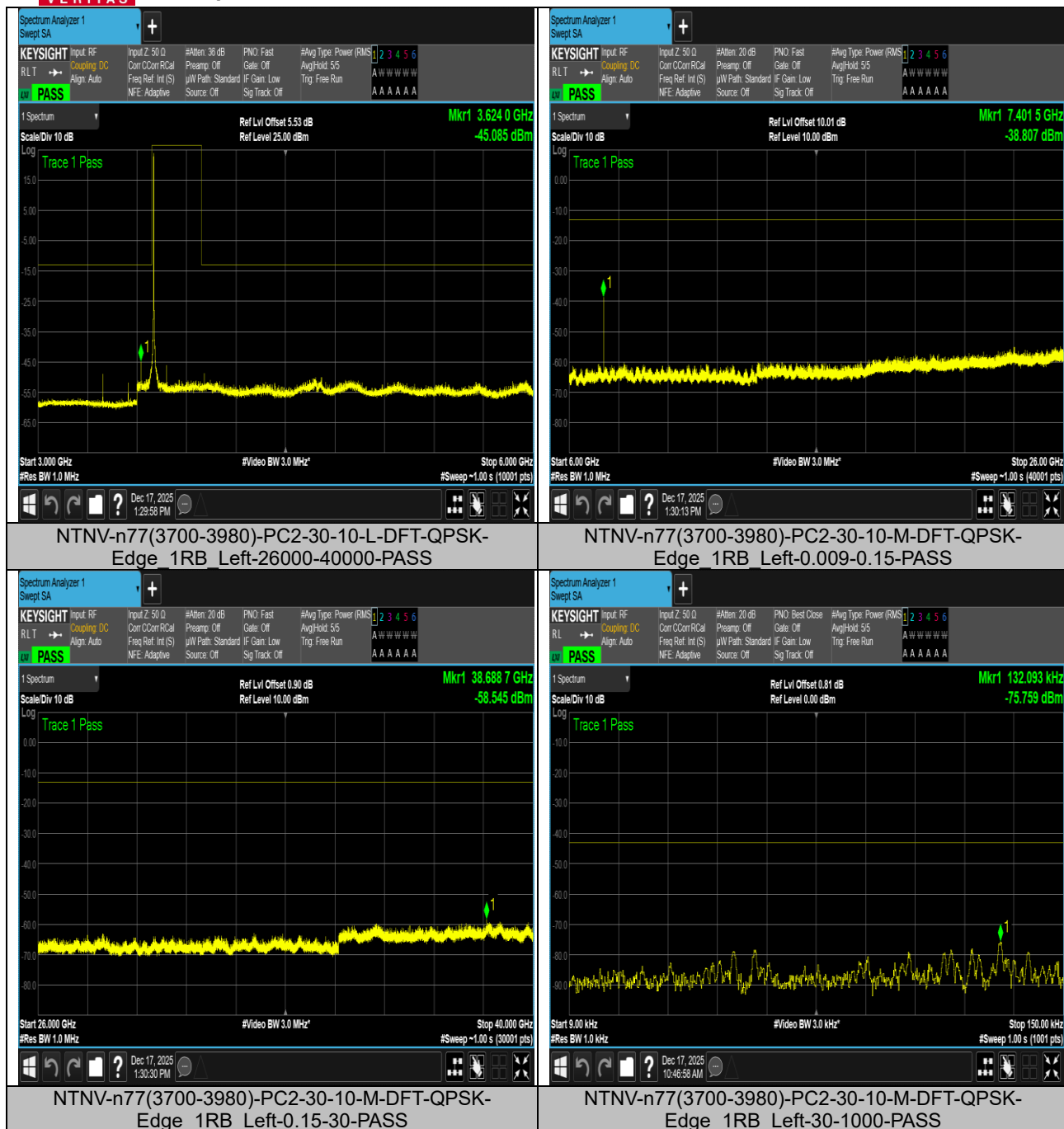
Test Graphs

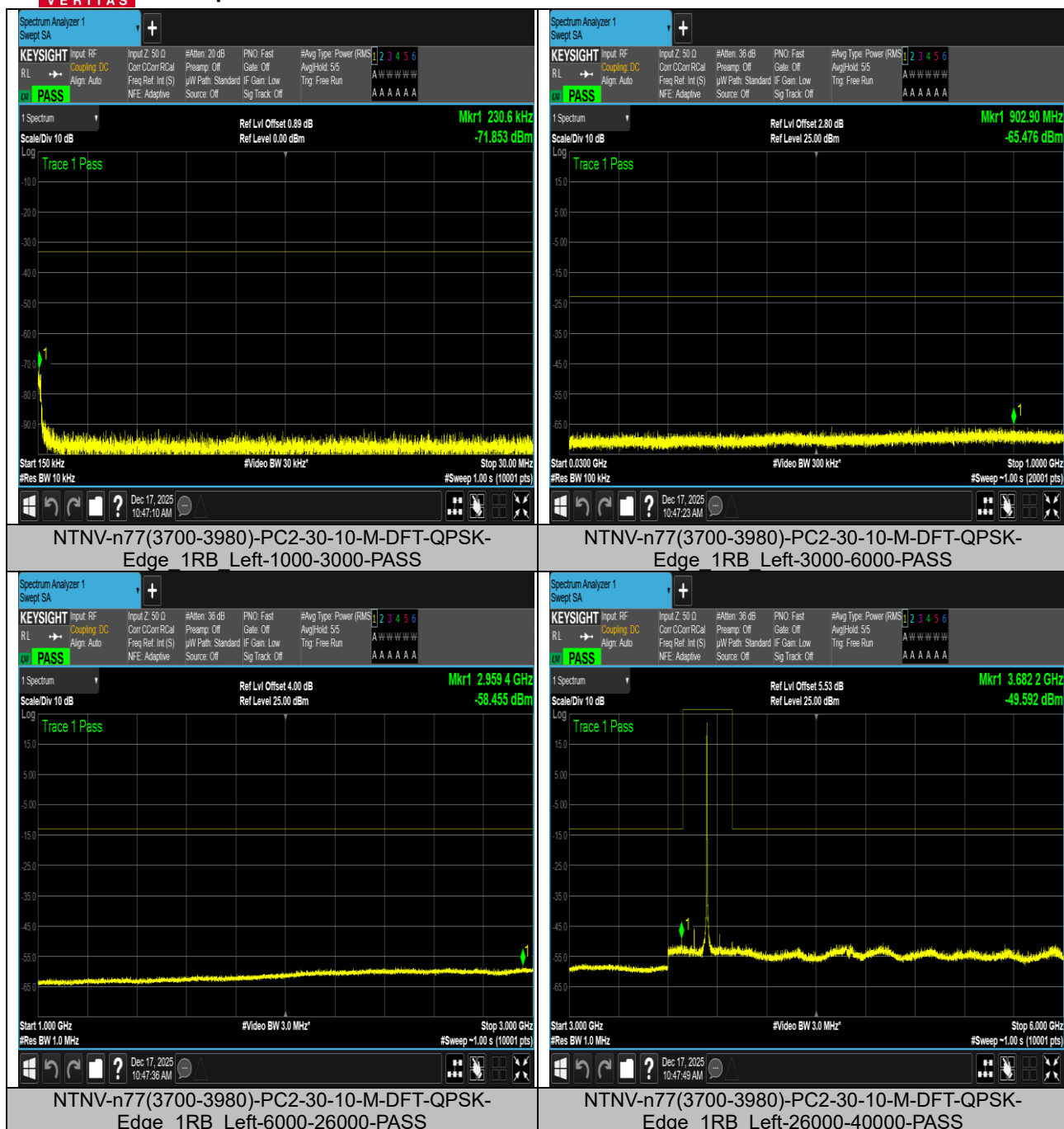


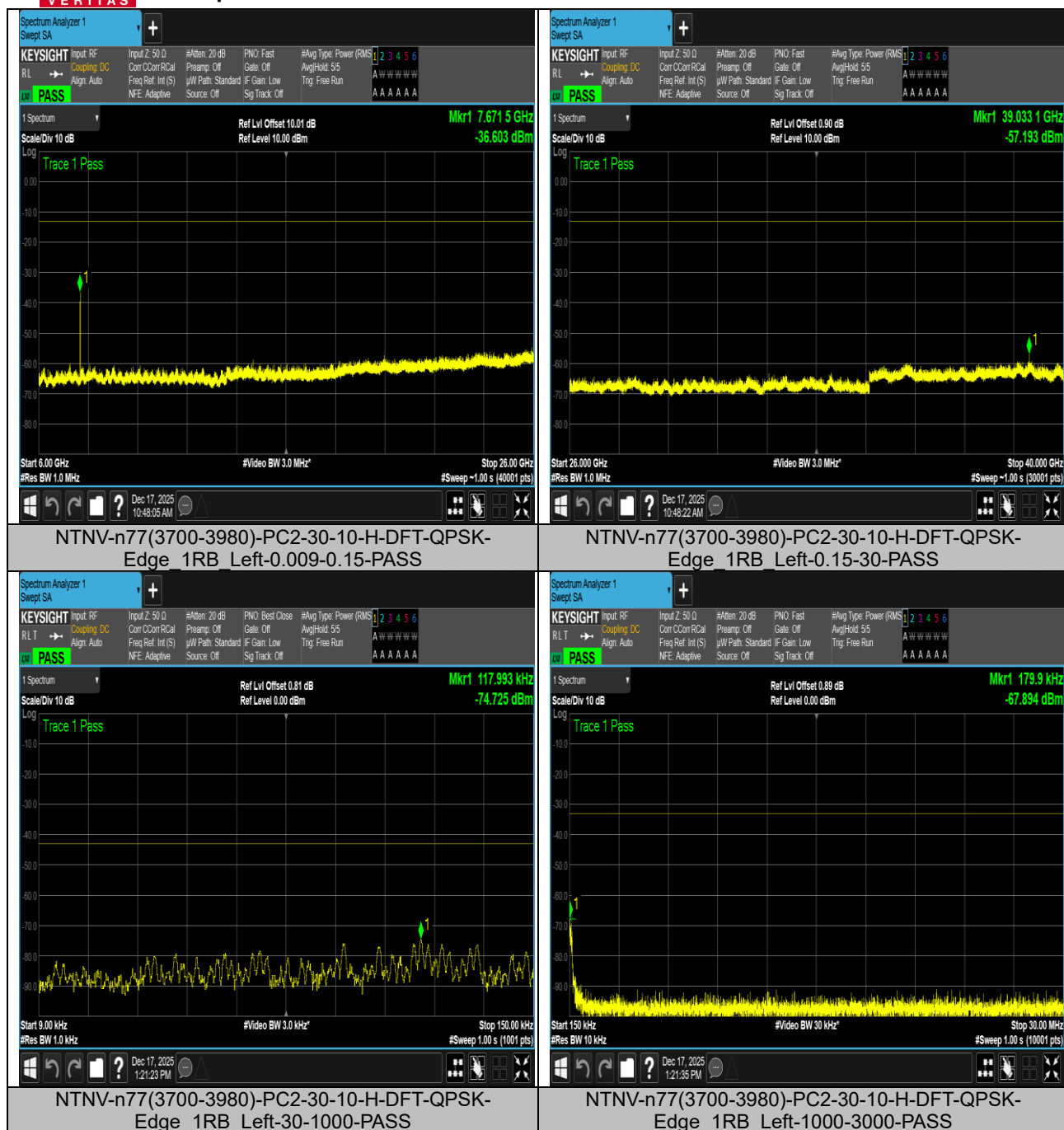


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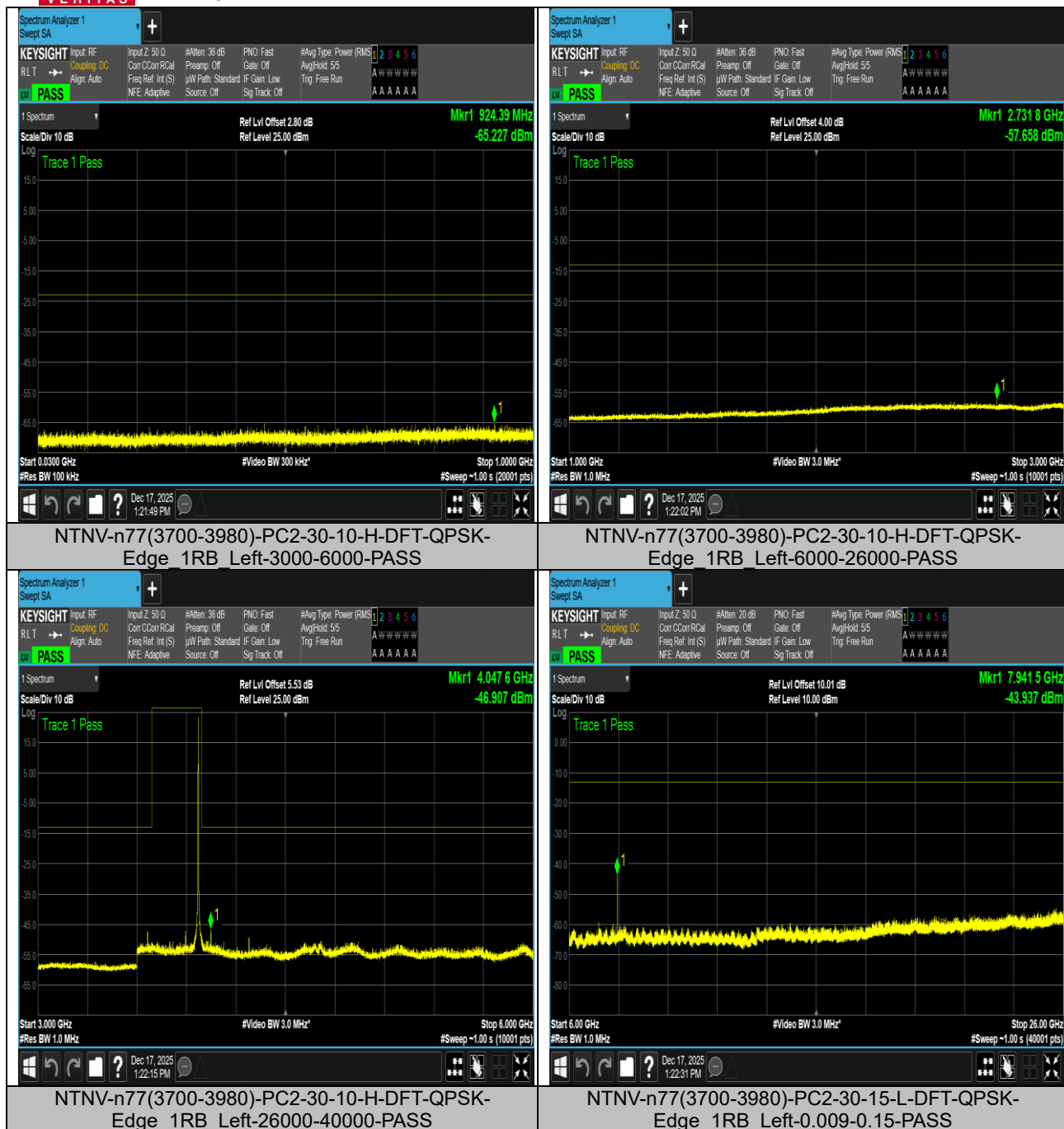






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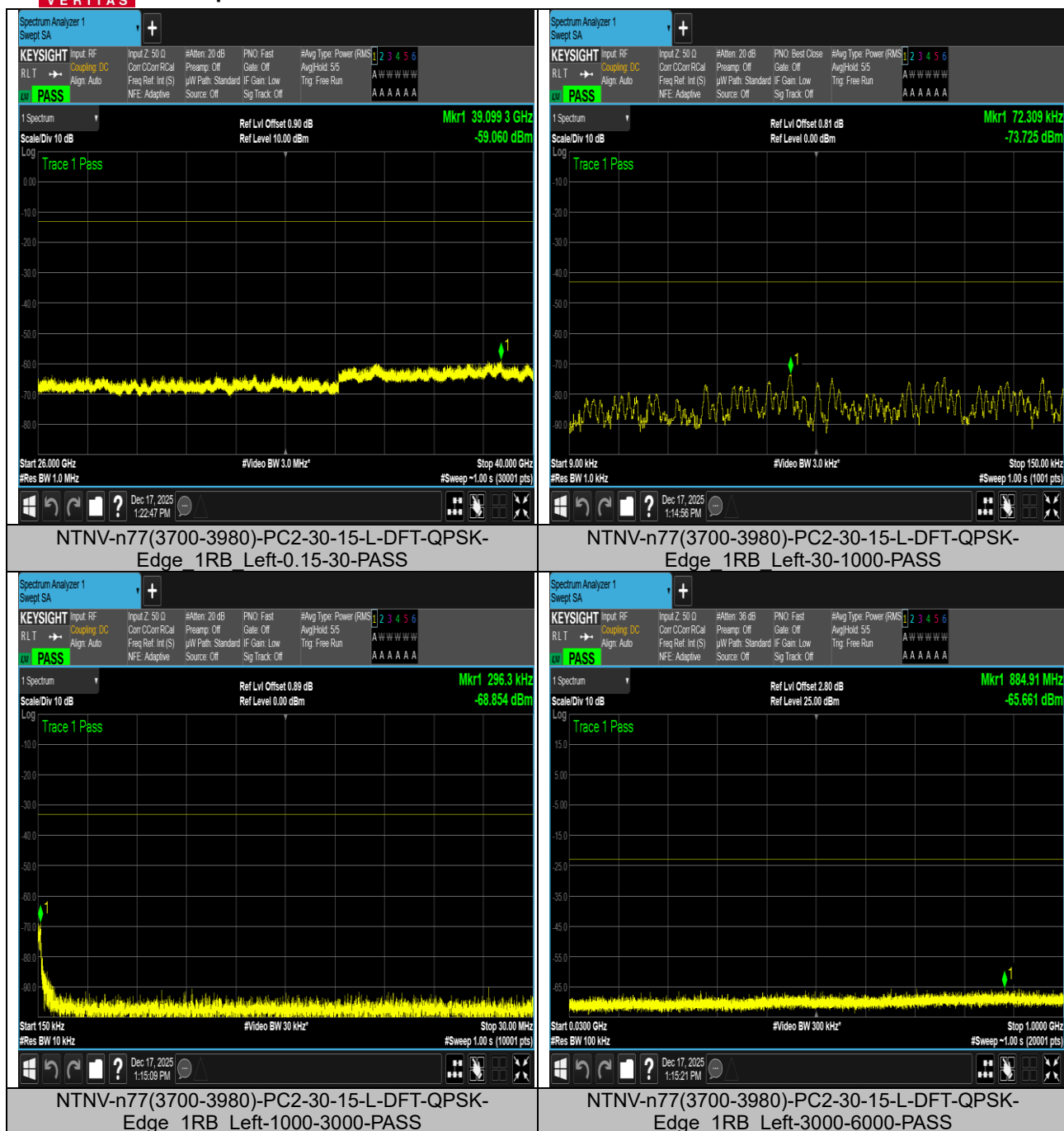
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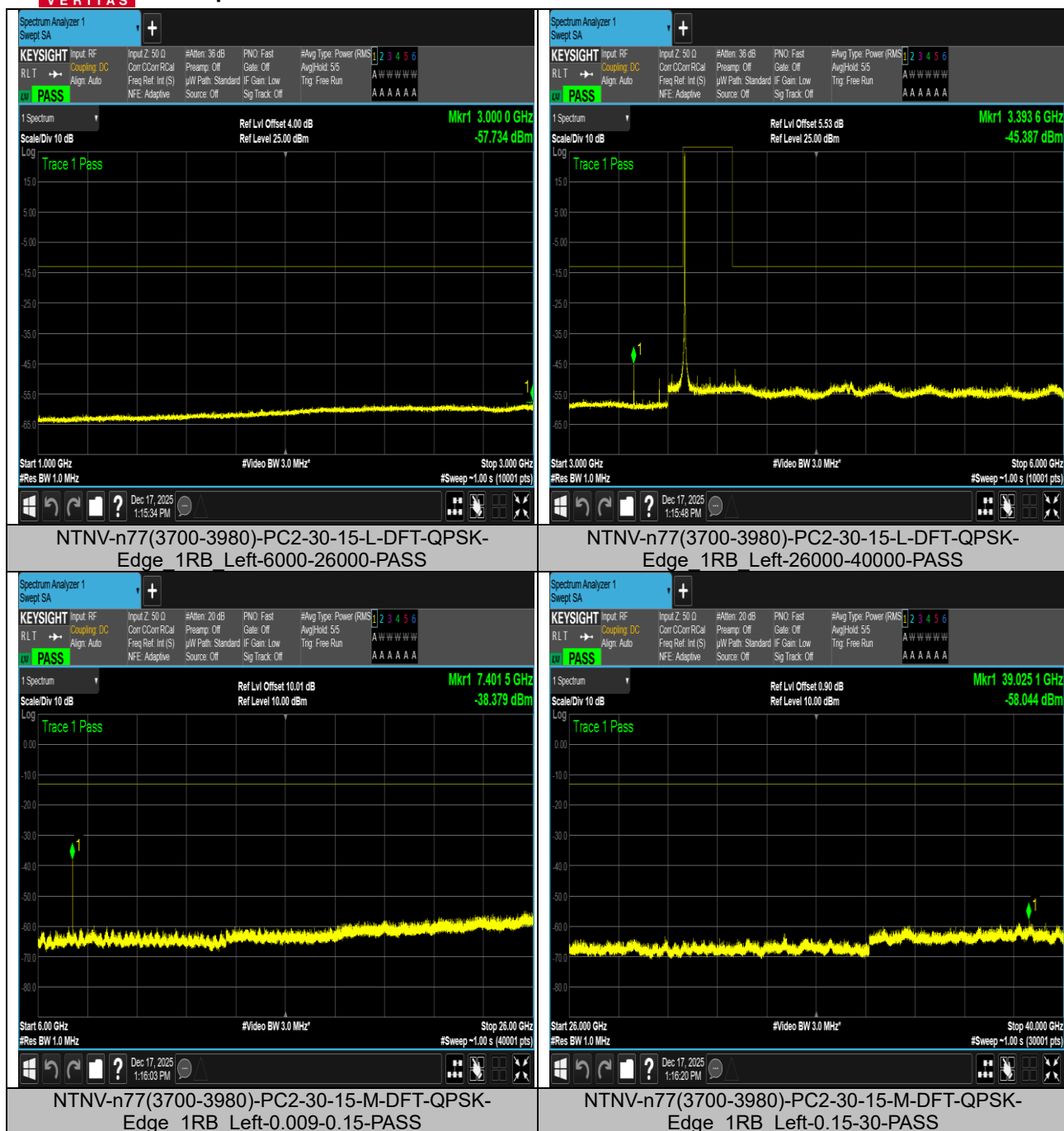
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