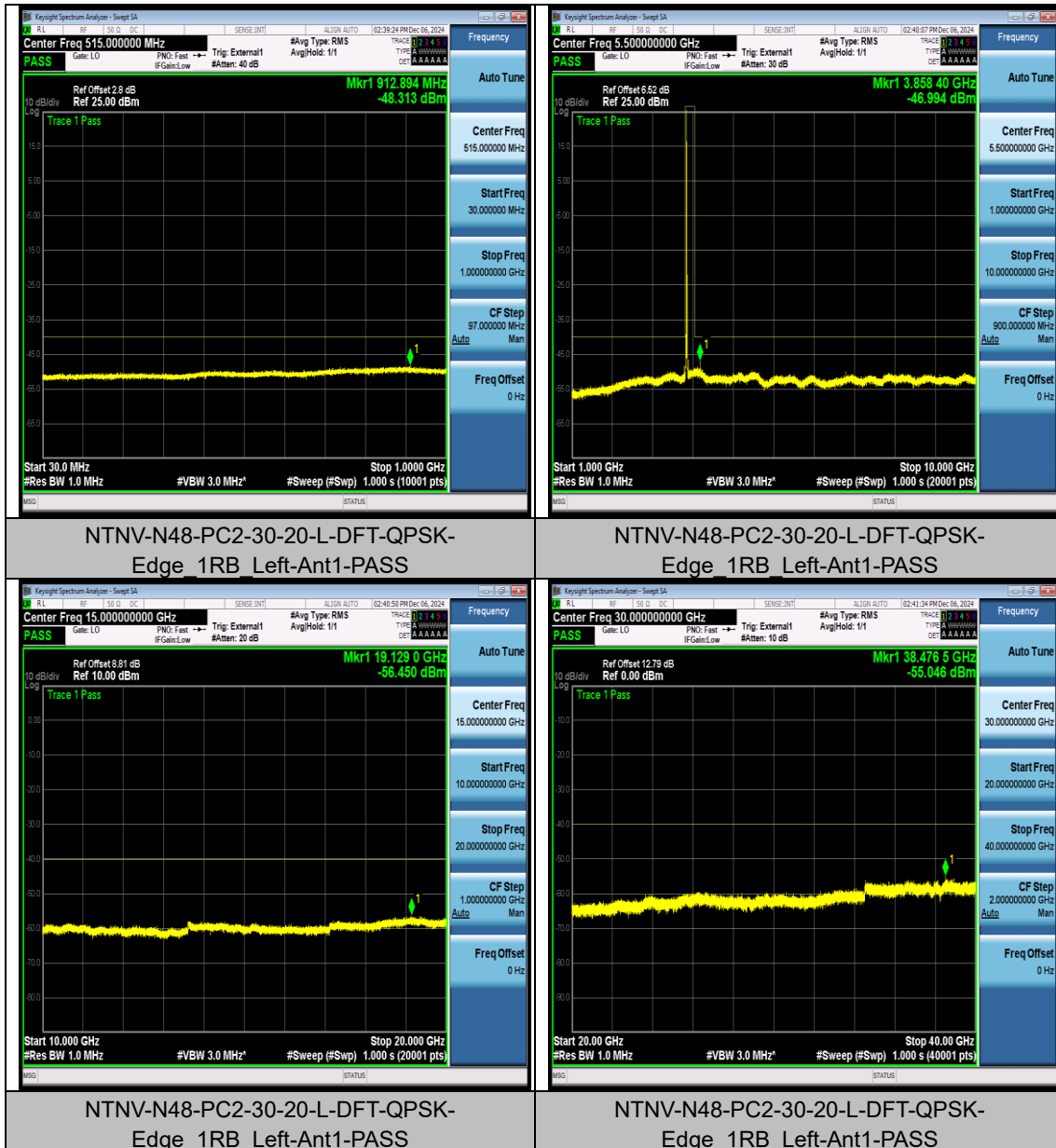
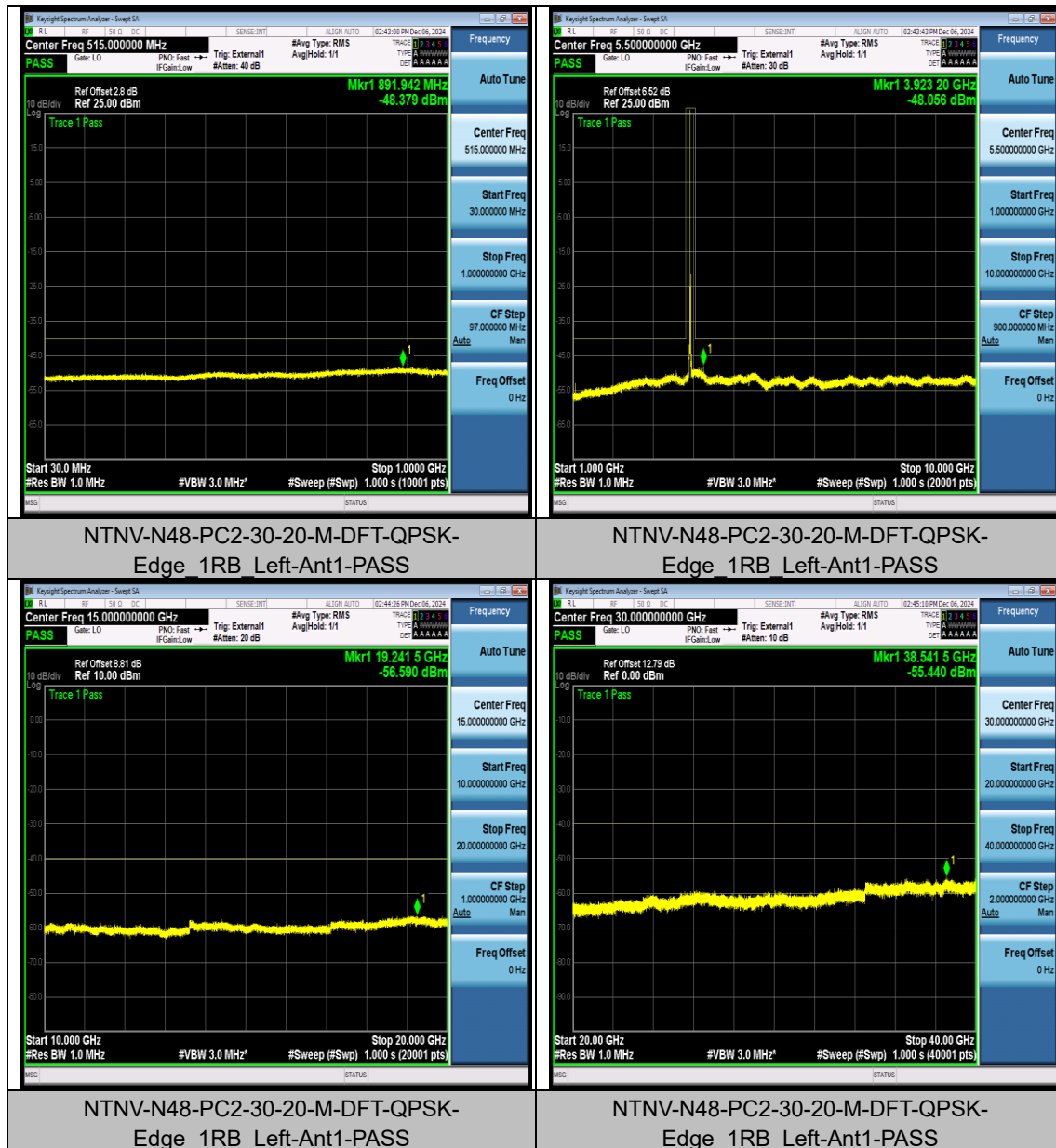
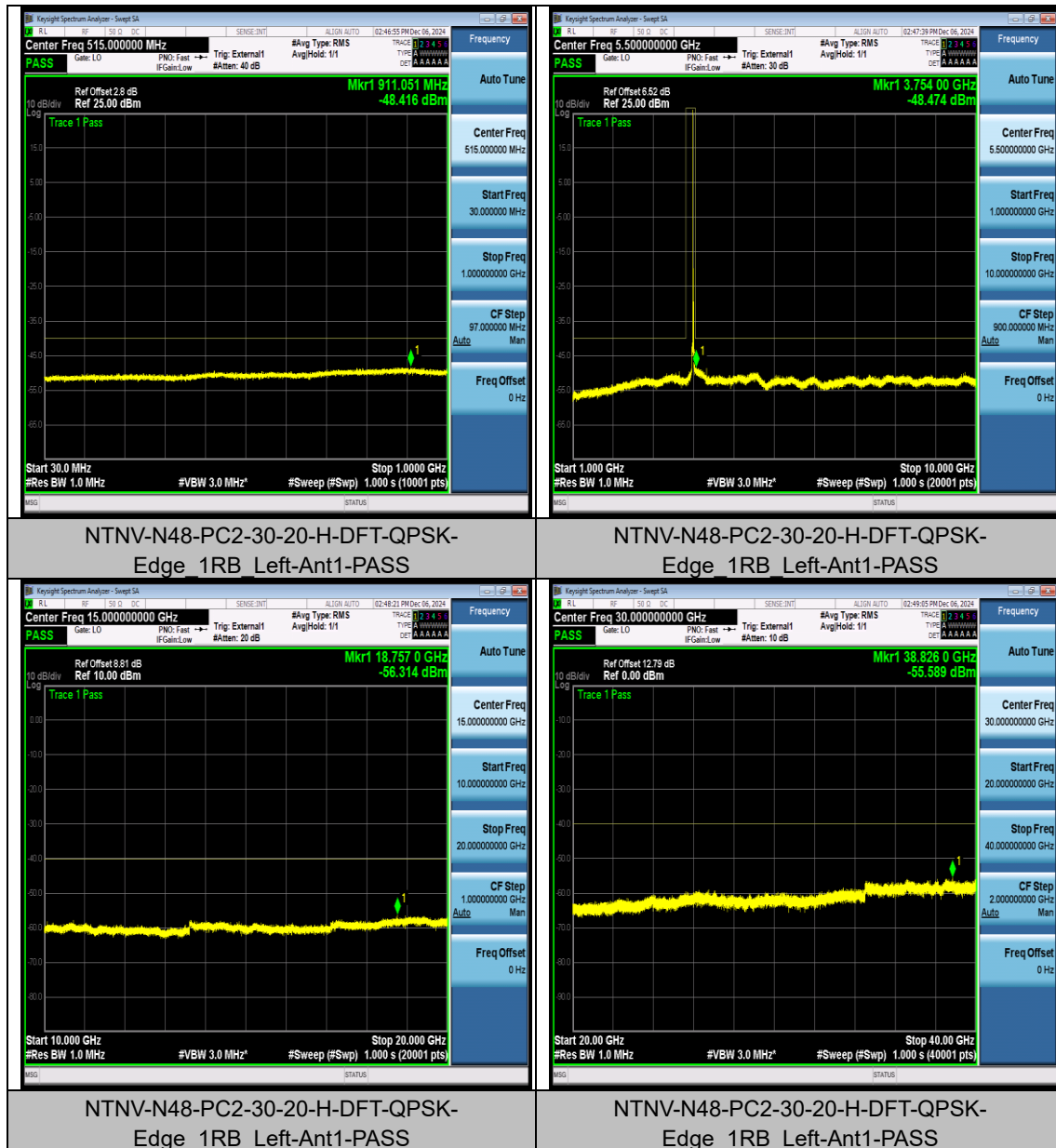
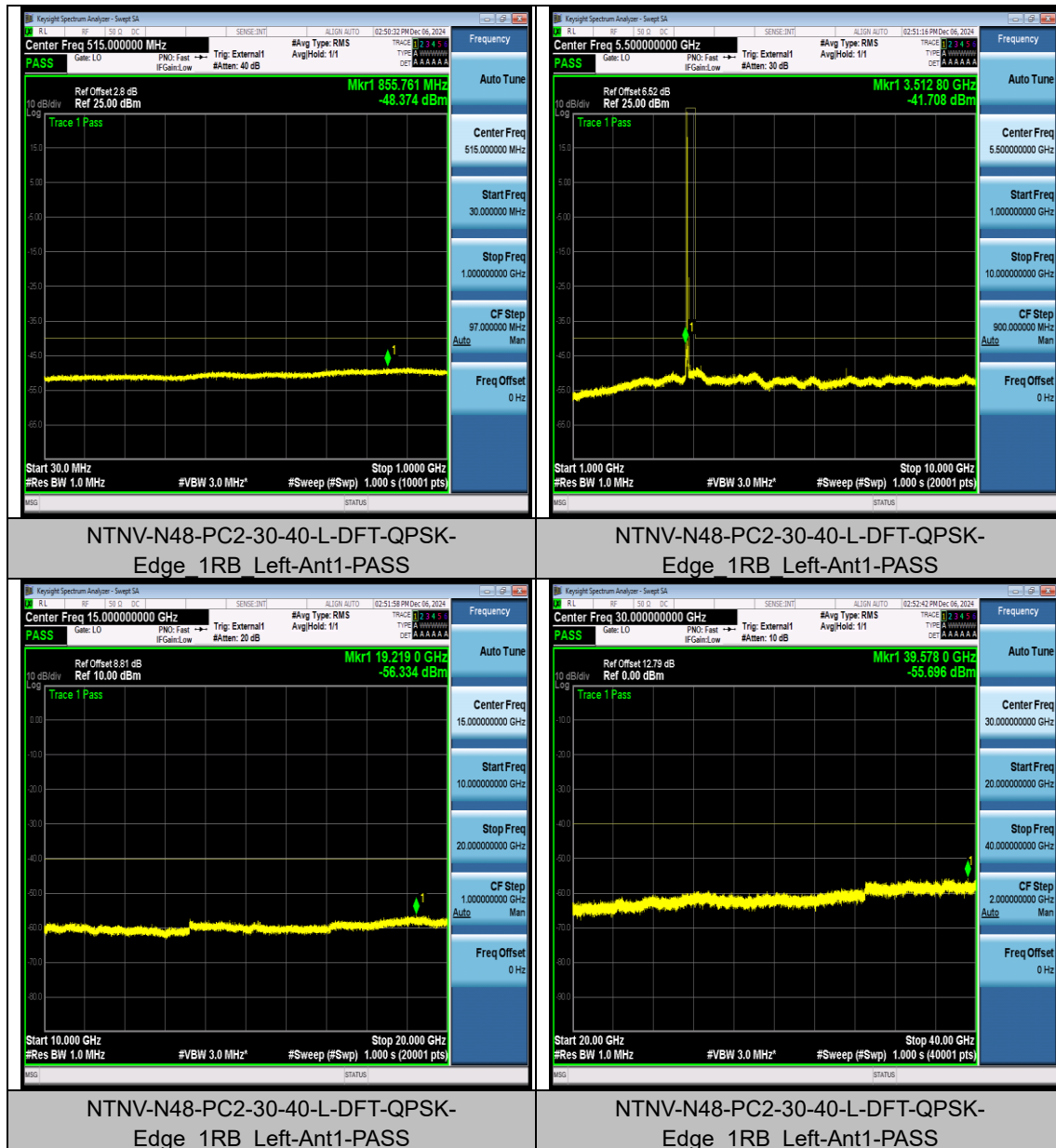


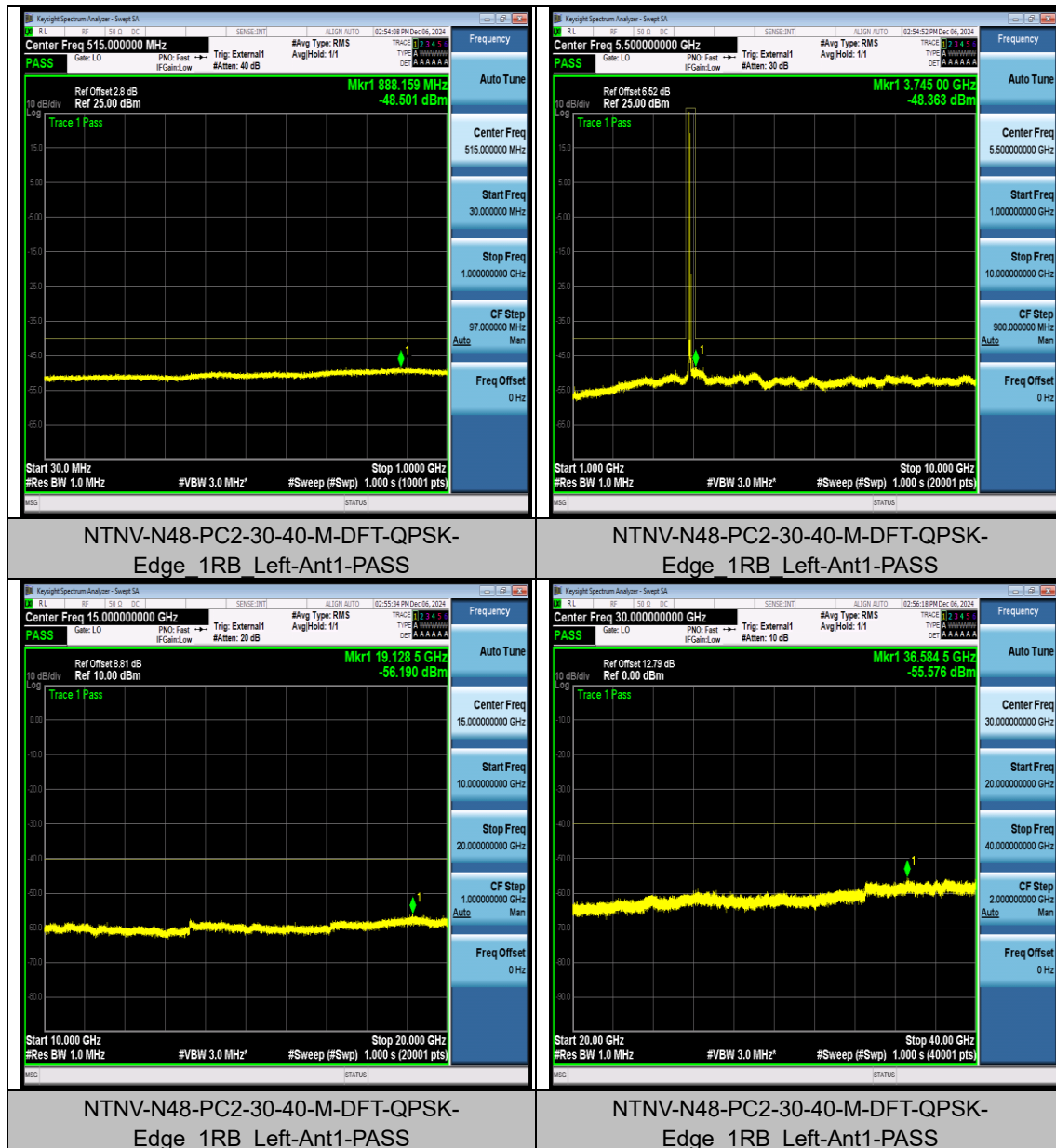
TEST GRAPHS

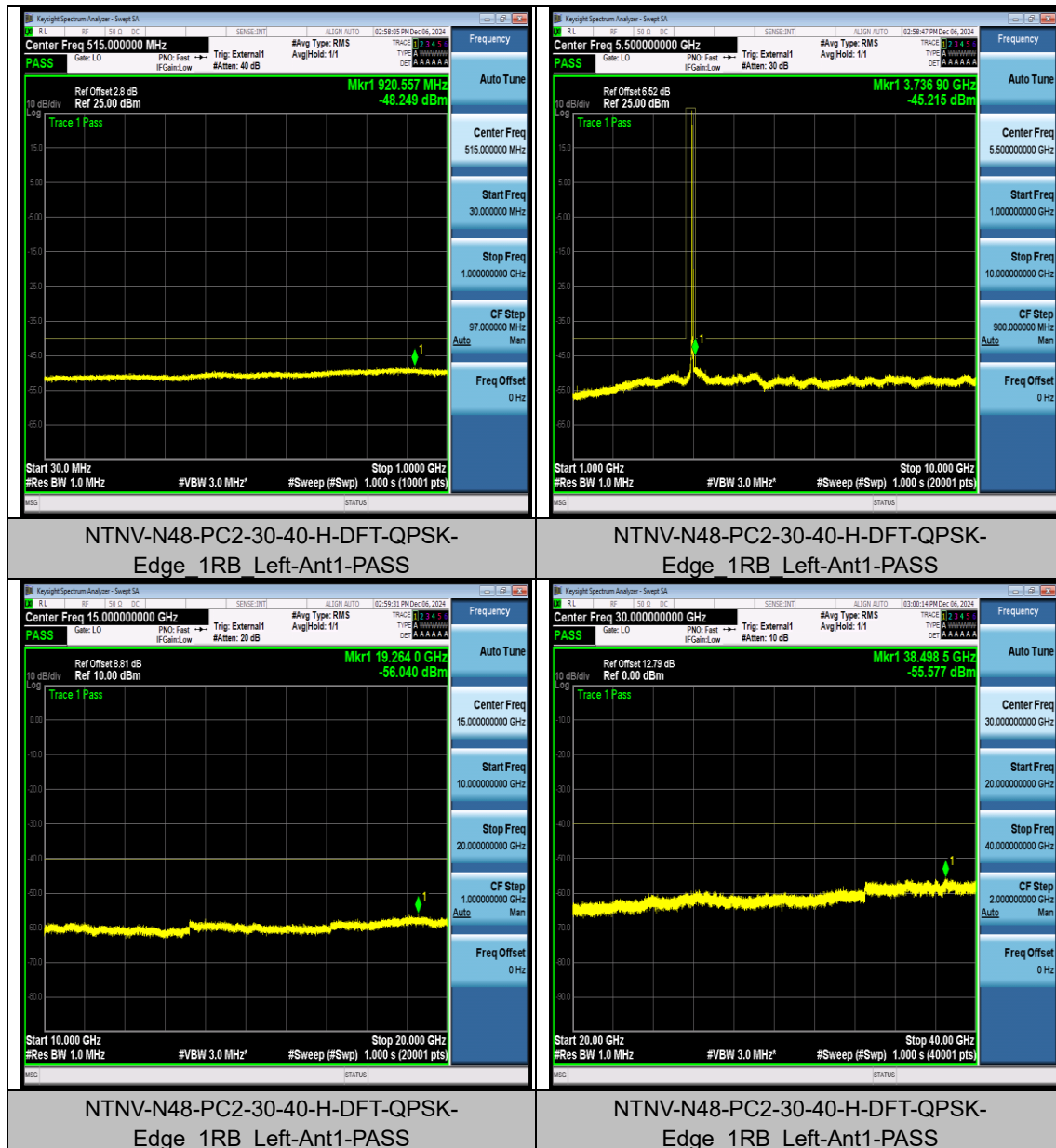












FREQUENCY STABILITY FOR SA TEST RESULT

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	30	20	DFT-QPSK	L	Outer Full	VL	NT	-5.561000	-0.001562	PASS
N48	30	20	DFT-QPSK	L	Outer Full	VN	NT	-1.018000	-0.000286	PASS
N48	30	20	DFT-QPSK	L	Outer Full	VH	NT	-4.305000	-0.001209	PASS
N48	30	20	DFT-QPSK	M	Outer Full	VL	NT	-8.071000	-0.002226	PASS
N48	30	20	DFT-QPSK	M	Outer Full	VN	NT	-11.327000	-0.003125	PASS
N48	30	20	DFT-QPSK	M	Outer Full	VH	NT	-6.583000	-0.001816	PASS
N48	30	20	DFT-QPSK	H	Outer Full	VL	NT	-2.563000	-0.000695	PASS
N48	30	20	DFT-QPSK	H	Outer Full	VN	NT	-8.375999	-0.002270	PASS
N48	30	20	DFT-QPSK	H	Outer Full	VH	NT	-8.465000	-0.002294	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	30	20	DFT-QPSK	L	Outer Full	NV	-30	-3.463000	-0.000973	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	-20	-10.875000	-0.003055	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	-10	-3.980000	-0.001118	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	0	-3.956000	-0.001111	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	10	-1.996000	-0.000561	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	20	-4.790000	-0.001346	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	30	-1.815000	-0.000510	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	40	1.834000	0.000515	PASS
N48	30	20	DFT-QPSK	L	Outer Full	NV	50	-2.735000	-0.000768	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	-30	-11.936000	-0.003293	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	-20	-4.673000	-0.001289	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	-10	-12.773000	-0.003524	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	0	-2.890000	-0.000797	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	10	-9.034000	-0.002492	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	20	-8.618000	-0.002377	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	30	-3.562000	-0.000982	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	40	-11.554000	-0.003187	PASS
N48	30	20	DFT-QPSK	M	Outer Full	NV	50	-7.572000	-0.002089	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	-30	-5.192000	-0.001407	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	-20	-6.003000	-0.001627	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	-10	-9.610000	-0.002604	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	0	-11.239000	-0.003046	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	10	-2.488000	-0.000674	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	20	-8.815000	-0.002389	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	30	-1.693000	-0.000459	PASS

N48	30	20	DFT-QPSK	H	Outer Full	NV	40	-7.010000	-0.001900	PASS
N48	30	20	DFT-QPSK	H	Outer Full	NV	50	-4.856000	-0.001316	PASS

RADIATED EMISSION MEASUREMENT

TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

30 MHz – 1GHz data:

CHANNEL BANDWIDTH	10MHz / QPSK		MODE		TX channel 641666			
FREQUENCY RANGE	Below 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER	AC 120V 60HZ		TESTED BY		Jack Liu			
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	30.970	-58.17	-55.66	-40.00	-18.17	-2.51	Peak	Horizontal
2	84.320	-72.85	-60.13	-40.00	-32.85	-12.72	Peak	Horizontal
3	118.270	-70.01	-54.53	-40.00	-30.01	-15.48	Peak	Horizontal
4	147.370	-64.89	-50.40	-40.00	-24.89	-14.49	Peak	Horizontal
5	165.800	-74.42	-58.28	-40.00	-34.42	-16.14	Peak	Horizontal
6	393.750	-72.76	-65.71	-40.00	-32.76	-7.05	Peak	Horizontal

CHANNEL BANDWIDTH	10MHz / QPSK		MODE		TX channel 641666			
FREQUENCY RANGE	Below 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER	AC 120V 60HZ		TESTED BY		Jack Liu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	30.970	-76.81	-55.26	-40.00	-36.81	-21.55	Peak	Vertical
2	85.290	-74.43	-56.30	-40.00	-34.43	-18.13	Peak	Vertical
3	119.240	-68.65	-52.44	-40.00	-28.65	-16.21	Peak	Vertical
4 PP	153.190	-62.42	-50.04	-40.00	-22.42	-12.38	Peak	Vertical
5	237.580	-69.17	-64.08	-40.00	-29.17	-5.09	Peak	Vertical
6	480.080	-69.15	-64.13	-40.00	-29.15	-5.02	Peak	Vertical

ABOVE 1GHz WORST-CASE DATA

Note: For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 641666					
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH					
INPUT POWER	AC 120V 60HZ	TESTED BY	Jack Liu					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	7250.000	-50.66	-63.77	-40.00	-10.66	13.11	Peak	Horizontal
2	PP10864.000	-48.65	-68.26	-40.00	-8.65	19.61	Peak	Horizontal

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 641666					
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH					
INPUT POWER	AC 120V 60HZ	TESTED BY	Jack Liu					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	7264.000	-49.73	-63.38	-40.00	-9.73	13.65	Peak	Vertical
2	PP10864.000	-48.53	-67.14	-40.00	-8.53	18.61	Peak	Vertical

--END--