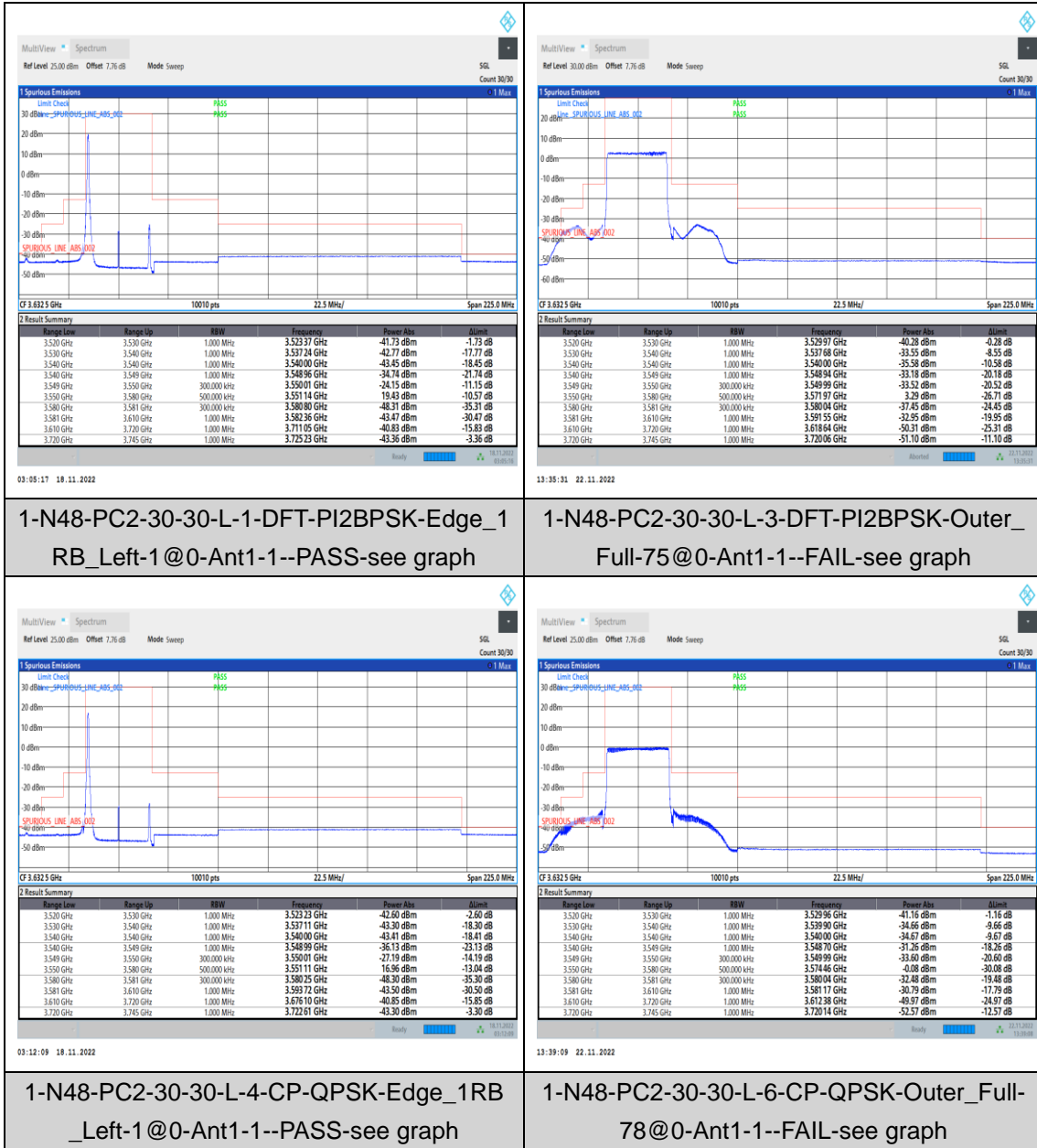


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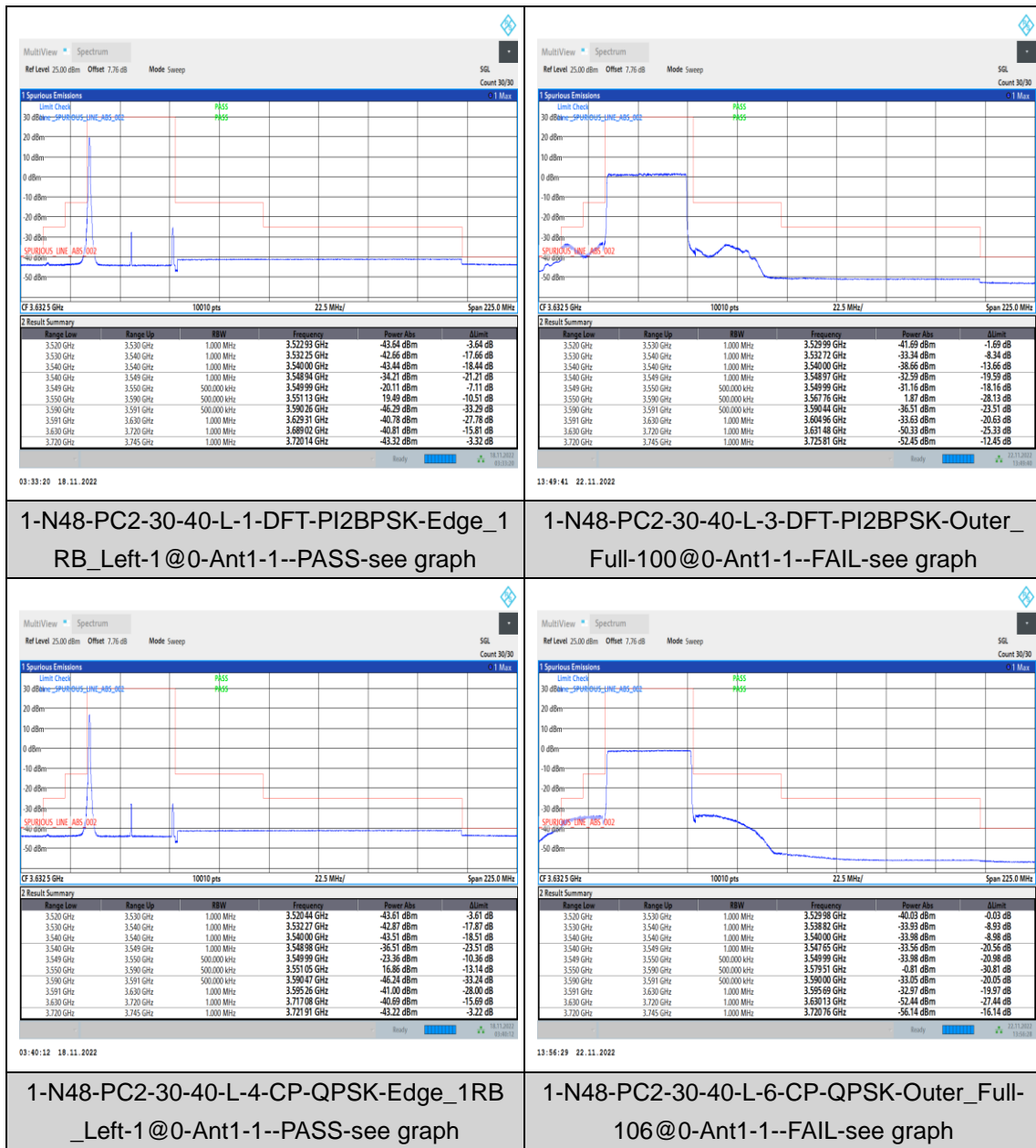
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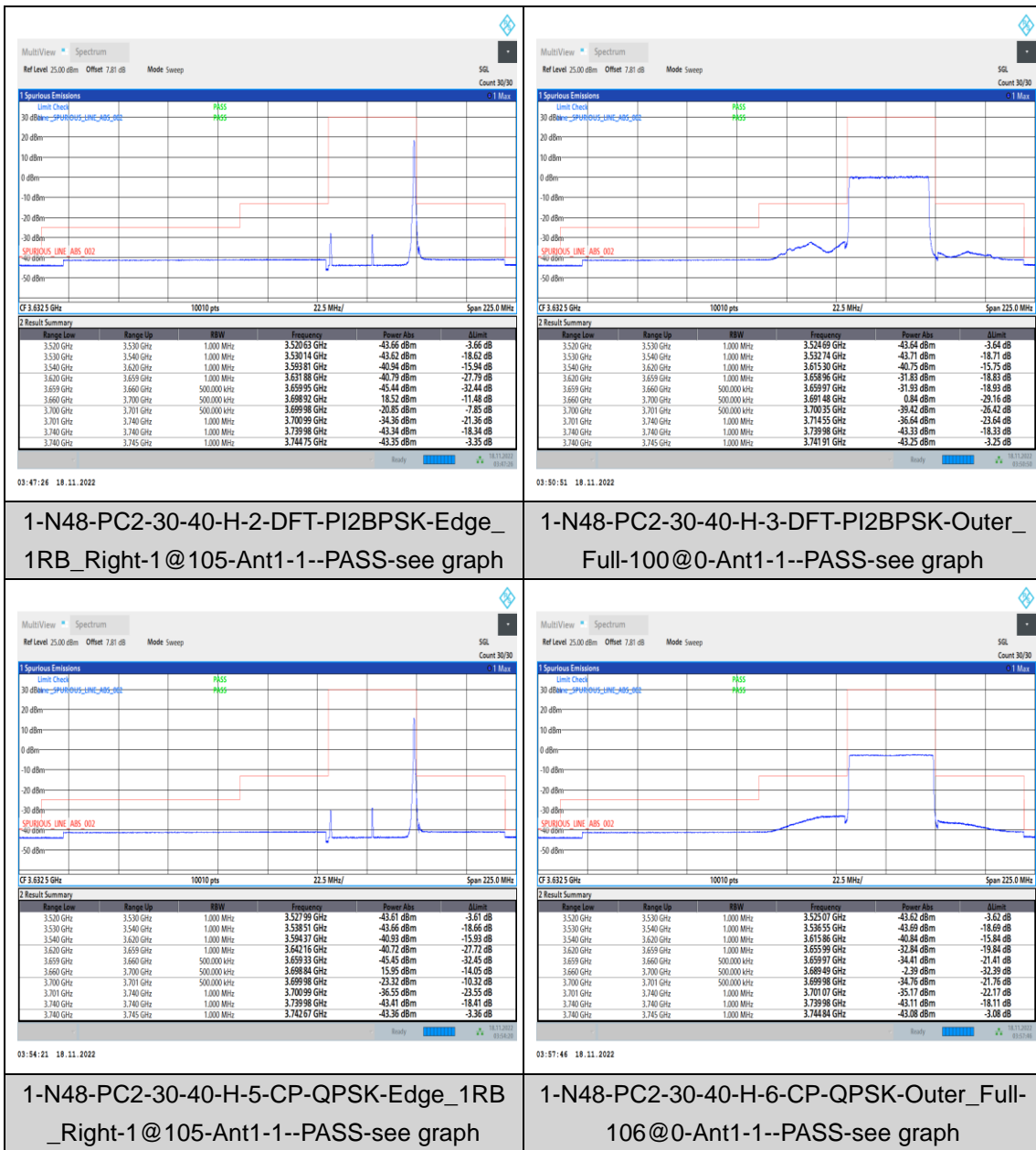
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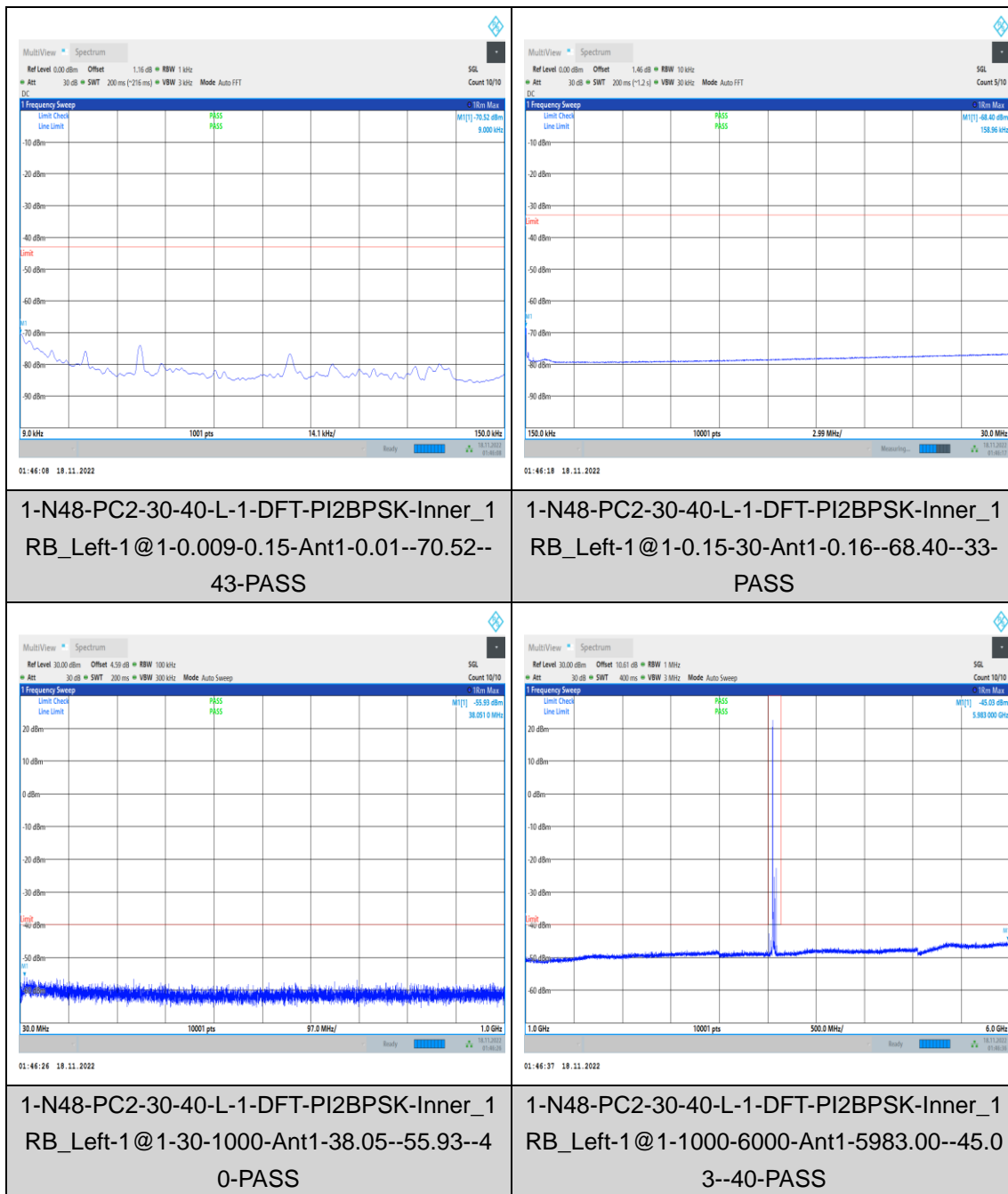
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## Conducted Spurious Emission for SA

### Test Graphs



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<p>1-N48-PC2-30-40-L-1-DFT-PI2BPSK-Inner_1 RB_Left-1@1-6000-38000-Ant1-6000.00--51.04--40-PASS</p>	<p>1-N48-PC2-30-40-M-1-DFT-PI2BPSK-Inner_1 RB_Left-1@1-0.009-0.15-Ant1-0.01--70.22-43-PASS</p>
<p>1-N48-PC2-30-40-M-1-DFT-PI2BPSK-Inner_1 RB_Left-1@1-0.15-30-Ant1-0.16--68.24--33-PASS</p>	<p>1-N48-PC2-30-40-M-1-DFT-PI2BPSK-Inner_1 RB_Left-1@1-30-1000-Ant1-89.66--55.88--40-PASS</p>

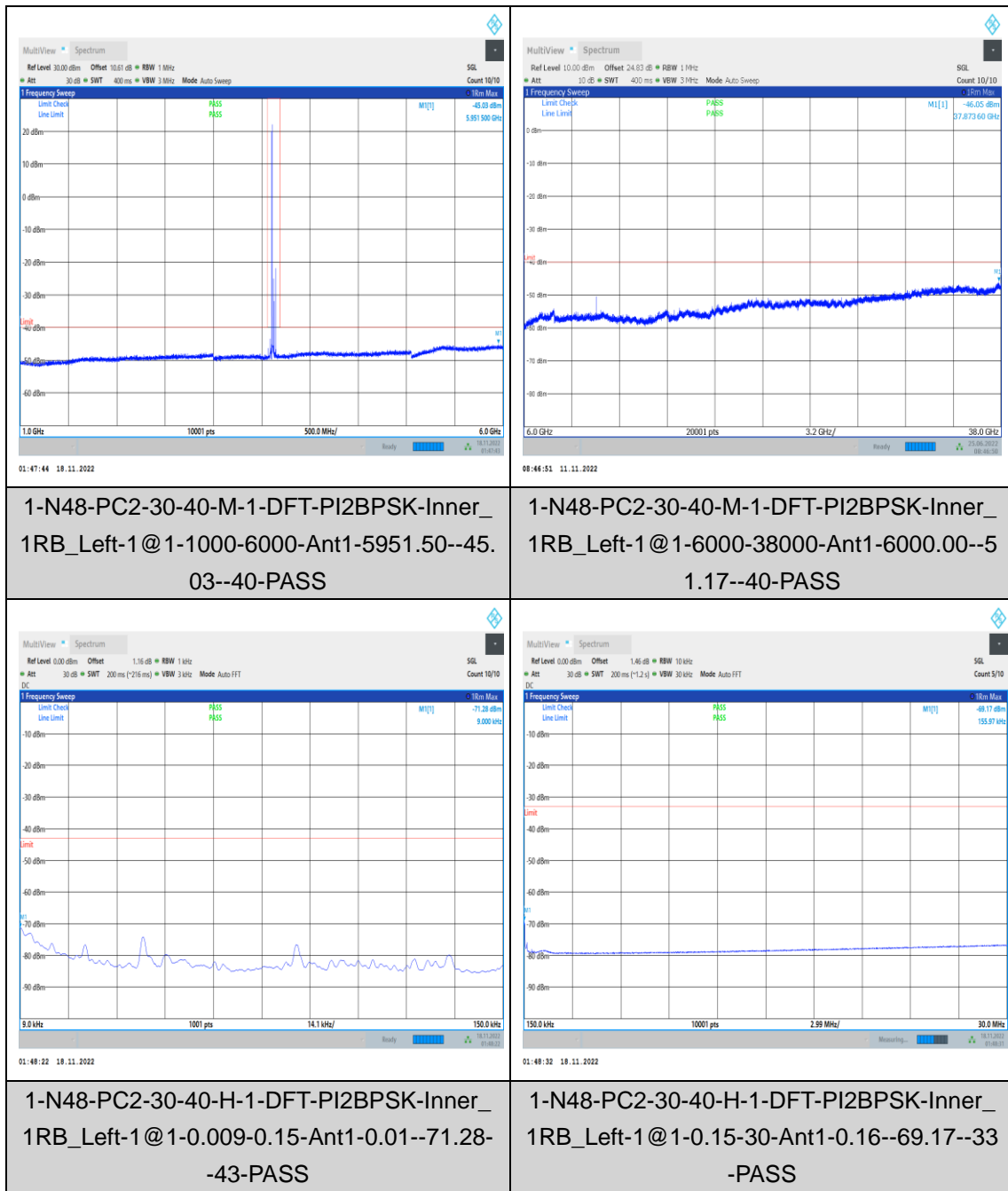


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<p>1-N48-PC2-30-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-45.23--55.16--40-PASS</p>	<p>1-N48-PC2-30-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-6000-Ant1-2458.00--42.72--40-PASS</p>
<p>1-N48-PC2-30-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-6000-38000-Ant1-6000.00--5.138--40-PASS</p>	



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## 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	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-5.600000	-0.001545	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-5.100000	-0.001407	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-8.800000	-0.002428	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VN	NT	-2.100000	-0.000579	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VH	NT	0.000000	0.000000	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VL	NT	3.500000	0.000966	PASS

### Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-2.300000	-0.000634	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-2.700000	-0.000745	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	1.800000	0.000497	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	0	0.200000	0.000055	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	10	3.000000	0.000828	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-0.700000	-0.000193	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	30	-4.300000	-0.001186	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	40	1.800000	0.000497	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	50	3.300000	0.000910	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-30	-3.700000	-0.001021	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-20	-4.800000	-0.001324	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-10	4.700000	0.001297	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	0	-3.600000	-0.000993	PASS



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N48	30	40	CP-QPSK	M	Outer_Full	NV	10	3.100000	0.000855	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	20	3.100000	0.000855	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	30	-1.300000	-0.000359	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	40	-7.200000	-0.001986	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	50	3.300000	0.000910	PASS



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## Modulation characteristics for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N48	30	40	DFT-PI2BPSK	M	Outer_Full	see graph	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	see graph	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	see graph	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	see graph	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	see graph	PASS
N48	30	40	CP-QPSK	M	Outer_Full	see graph	PASS
N48	30	40	CP-16QAM	M	Outer_Full	see graph	PASS
N48	30	40	CP-64QAM	M	Outer_Full	see graph	PASS
N48	30	40	CP-256QAM	M	Outer_Full	see graph	PASS



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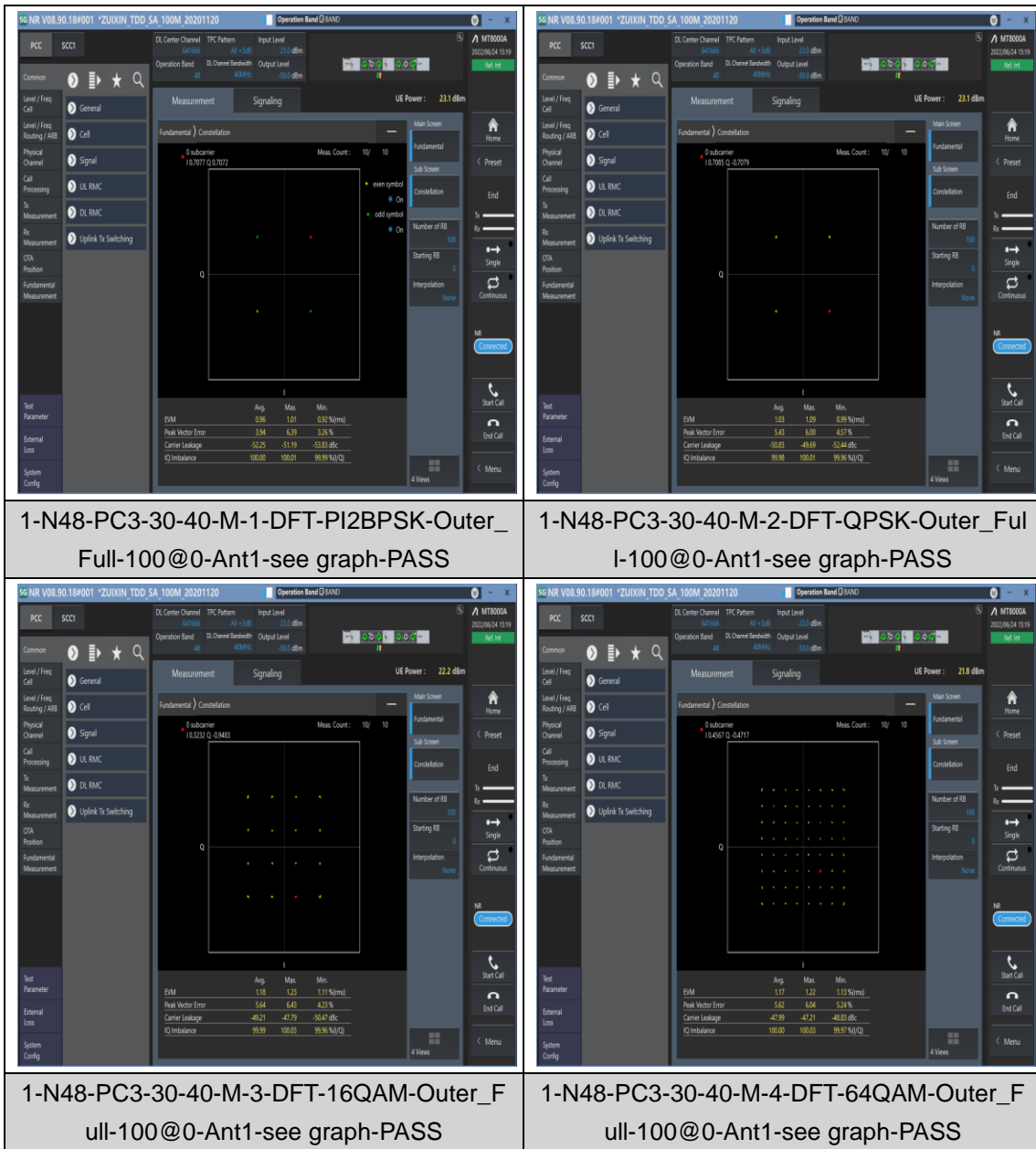
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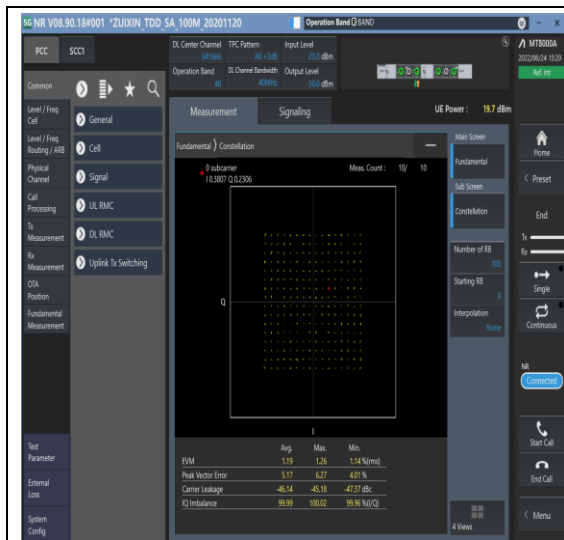


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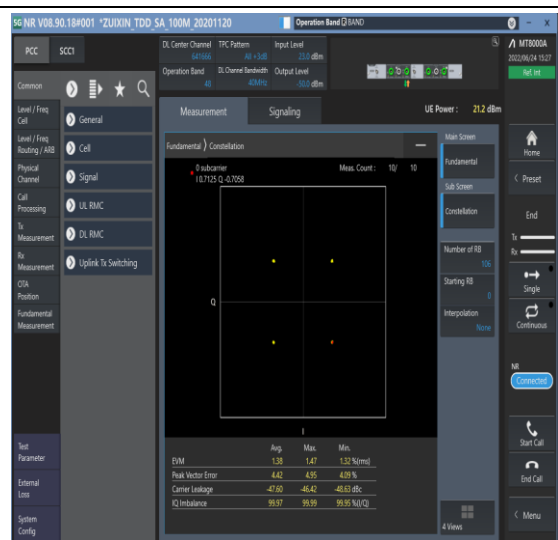
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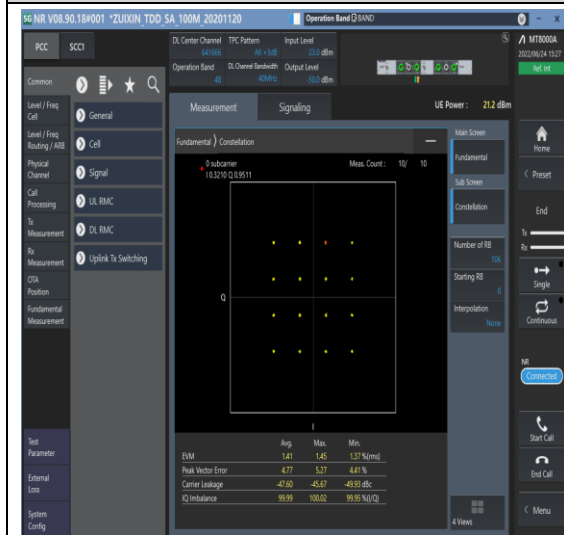
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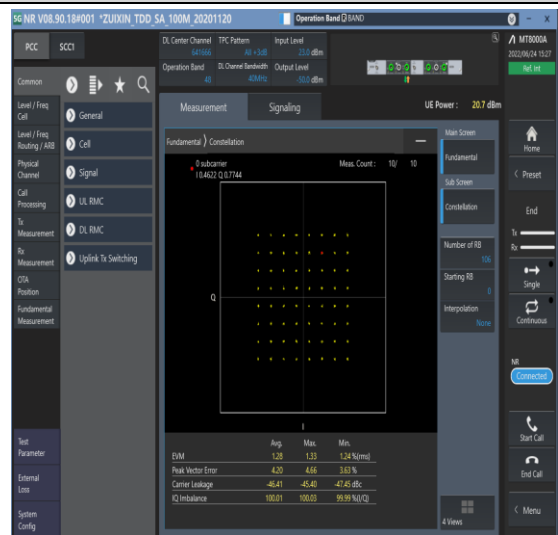
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1-N48-PC3-30-40-M-6-CP-QPSK-Outer\_Full-106@0-Ant1-see graph-PASS



1-N48-PC3-30-40-M-7-CP-16QAM-Outer\_Ful-I-106@0-Ant1-see graph-PASS



1-N48-PC3-30-40-M-8-CP-64QAM-Outer\_Ful-I-106@0-Ant1-see graph-PASS



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The screenshot shows a software interface for signal measurement. The main display is a constellation diagram for a QAM signal. Below the diagram, there is a table of test parameters:

Test Parameter	Avg.	Max.	Min.
EVM	1.53	1.57	1.29 % (std)
Peak Vector Error	4.69	5.24	4.24 %
Carrier Leakage	-43.39	-42.33	-45.51 dBc
IQ Imbalance	99.59	100.01	99.96 % IQ

Below the screenshot, the test parameters are listed in a text box:

1-N48-PC3-30-40-M-9-CP-256QAM-Outer\_F  
ull-106@0-Ant1-see graph-PASS



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## Power Spectral Density Test Result

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	EIRP	Limit	Verdict
N48	30	10	DFT-PI2BPSK	L	Inner_1RB_Left	20.44	19.86	23	PASS
N48	30	10	DFT-PI2BPSK	L	Inner_1RB_Right	20.87	20.29	23	PASS
N48	30	10	DFT-PI2BPSK	L	Outer_Full	19.75	19.17	23	PASS
N48	30	10	DFT-PI2BPSK	M	Inner_1RB_Left	20.63	20.05	23	PASS
N48	30	10	DFT-PI2BPSK	M	Inner_1RB_Right	20.31	19.73	23	PASS
N48	30	10	DFT-PI2BPSK	M	Outer_Full	18.66	18.08	23	PASS
N48	30	10	DFT-PI2BPSK	H	Inner_1RB_Left	20.05	19.47	23	PASS
N48	30	10	DFT-PI2BPSK	H	Inner_1RB_Right	20.09	19.51	23	PASS
N48	30	10	DFT-PI2BPSK	H	Outer_Full	18.83	18.25	23	PASS
N48	30	20	DFT-PI2BPSK	L	Inner_1RB_Left	20.93	20.35	23	PASS
N48	30	20	DFT-PI2BPSK	L	Inner_1RB_Right	20.85	20.27	23	PASS
N48	30	20	DFT-PI2BPSK	L	Outer_Full	18.03	17.45	23	PASS
N48	30	20	DFT-PI2BPSK	M	Inner_1RB_Left	20.85	20.27	23	PASS
N48	30	20	DFT-PI2BPSK	M	Inner_1RB_Right	19.80	19.22	23	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	17.69	17.11	23	PASS
N48	30	20	DFT-PI2BPSK	H	Inner_1RB_Left	19.65	19.07	23	PASS
N48	30	20	DFT-PI2BPSK	H	Inner_1RB_Right	20.12	19.54	23	PASS
N48	30	20	DFT-PI2BPSK	H	Outer_Full	16.68	16.10	23	PASS
N48	30	30	DFT-PI2BPSK	L	Inner_1RB_Left	20.35	19.77	23	PASS
N48	30	30	DFT-PI2BPSK	L	Inner_1RB_Right	20.43	19.85	23	PASS
N48	30	30	DFT-PI2BPSK	L	Outer_Full	16.16	15.58	23	PASS
N48	30	30	DFT-PI2BPSK	M	Inner_1RB_Left	20.86	20.28	23	PASS



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N48	30	30	DFT-PI2BPSK	M	Inner_1RB_Right	20.85	20.27	23	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	16.88	16.30	23	PASS
N48	30	30	DFT-PI2BPSK	H	Inner_1RB_Left	20.86	20.28	23	PASS
N48	30	30	DFT-PI2BPSK	H	Inner_1RB_Right	20.38	19.80	23	PASS
N48	30	30	DFT-PI2BPSK	H	Outer_Full	16.22	15.64	23	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Left	20.92	20.34	23	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Right	21.38	20.80	23	PASS
N48	30	40	DFT-PI2BPSK	L	Outer_Full	15.29	14.71	23	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Left	20.50	19.92	23	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Right	20.23	19.65	23	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	15.27	14.69	23	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Left	19.90	19.32	23	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Right	19.76	19.18	23	PASS
N48	30	40	DFT-PI2BPSK	H	Outer_Full	14.03	13.45	23	PASS



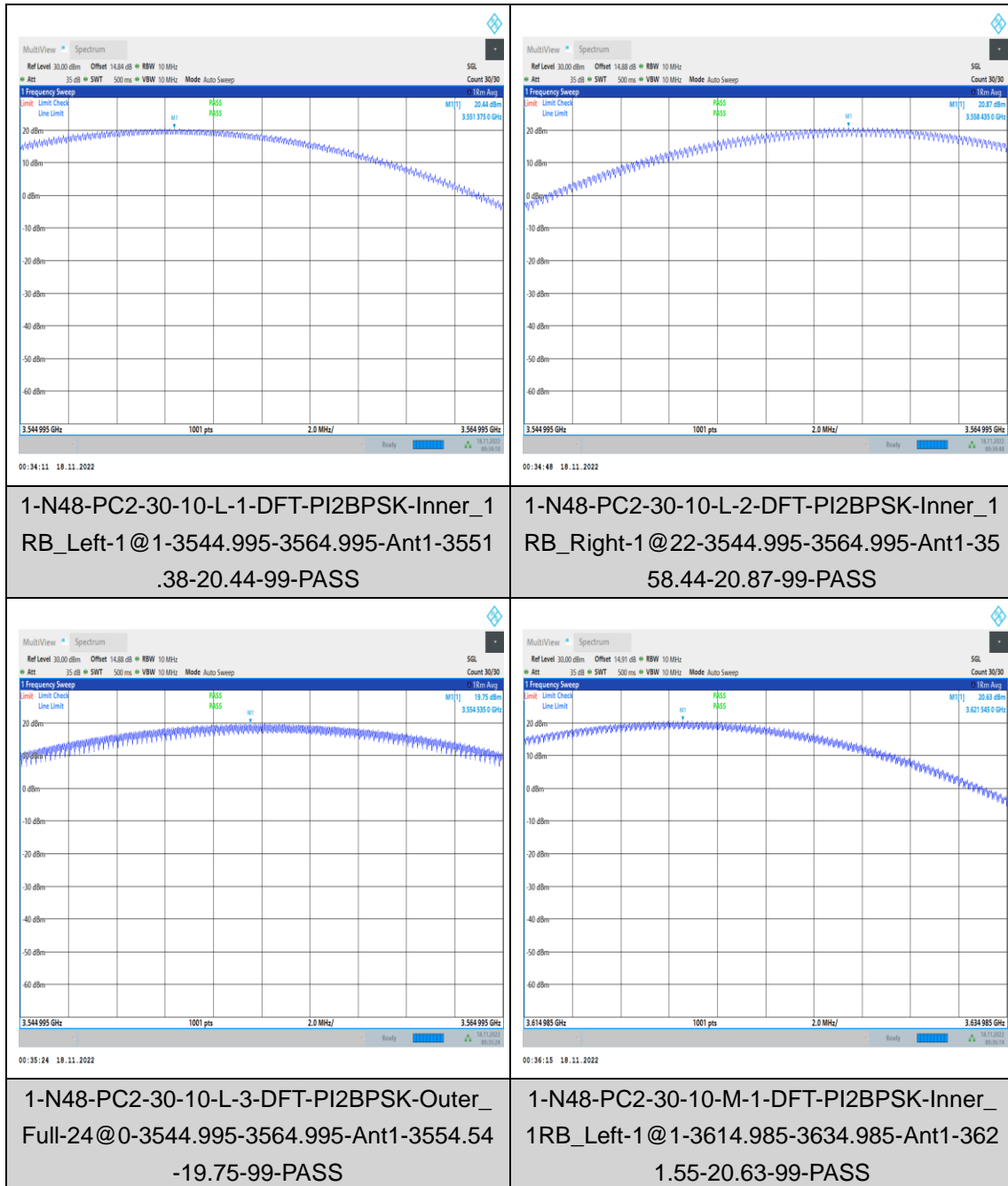
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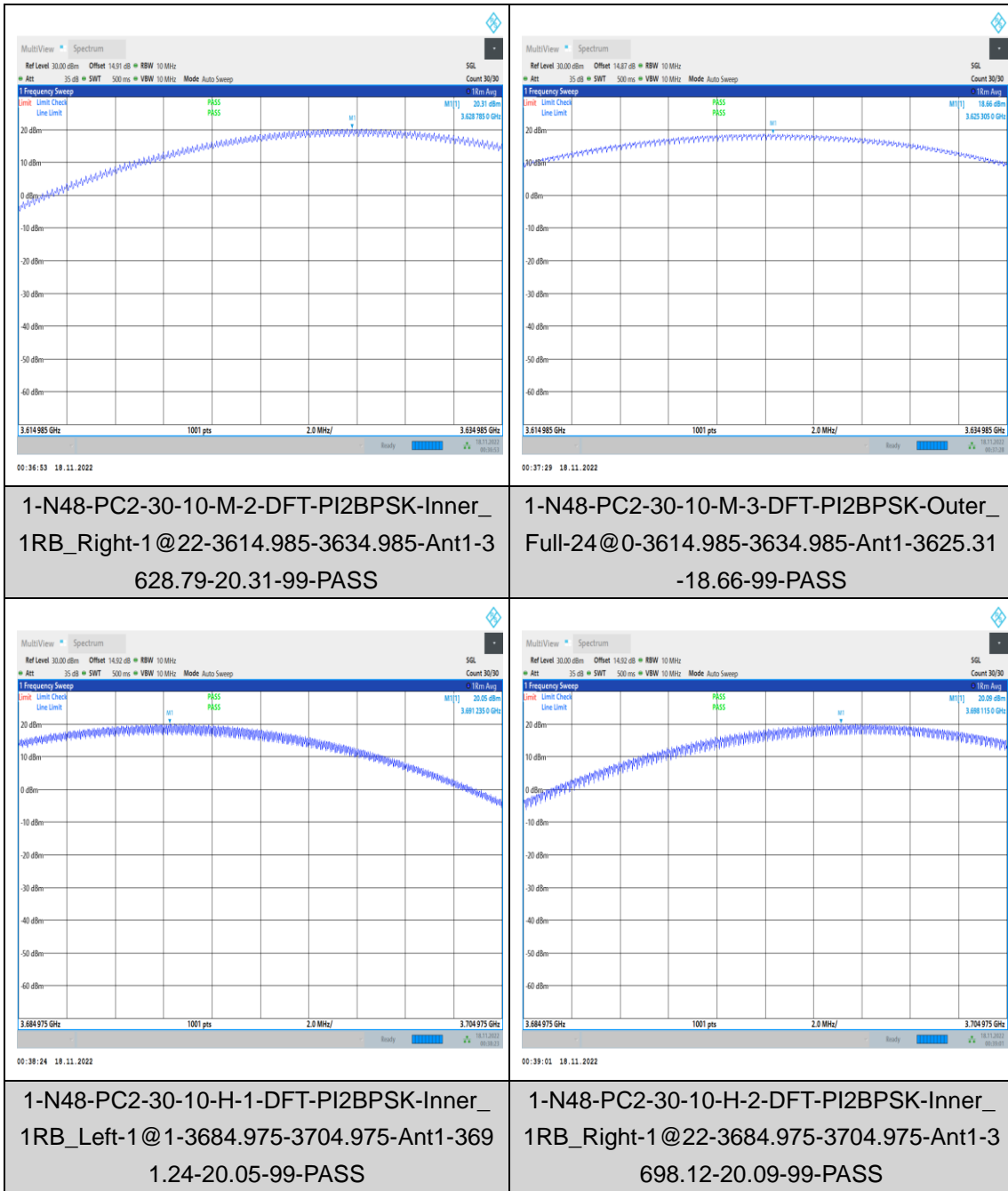
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Test Graphs



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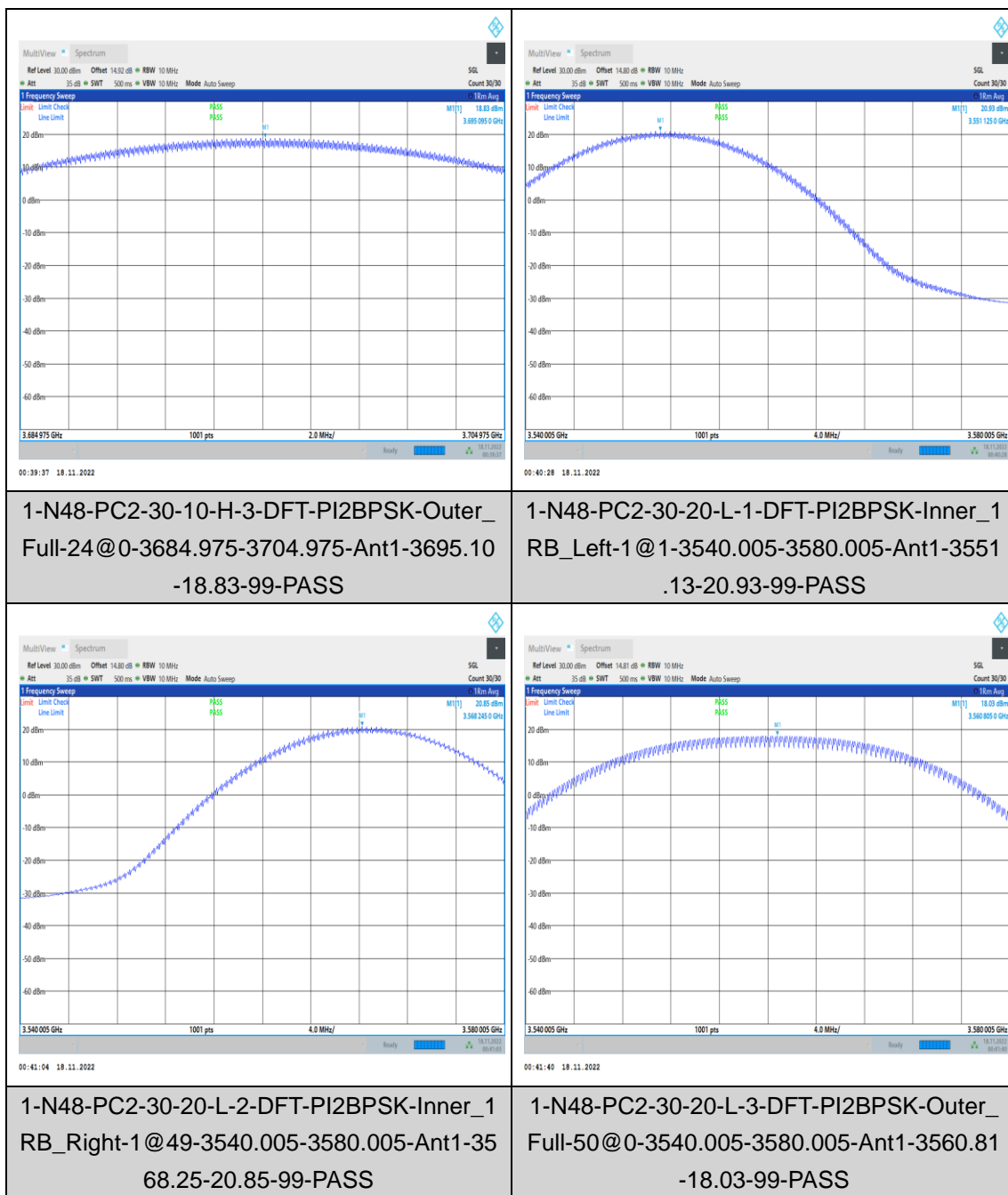


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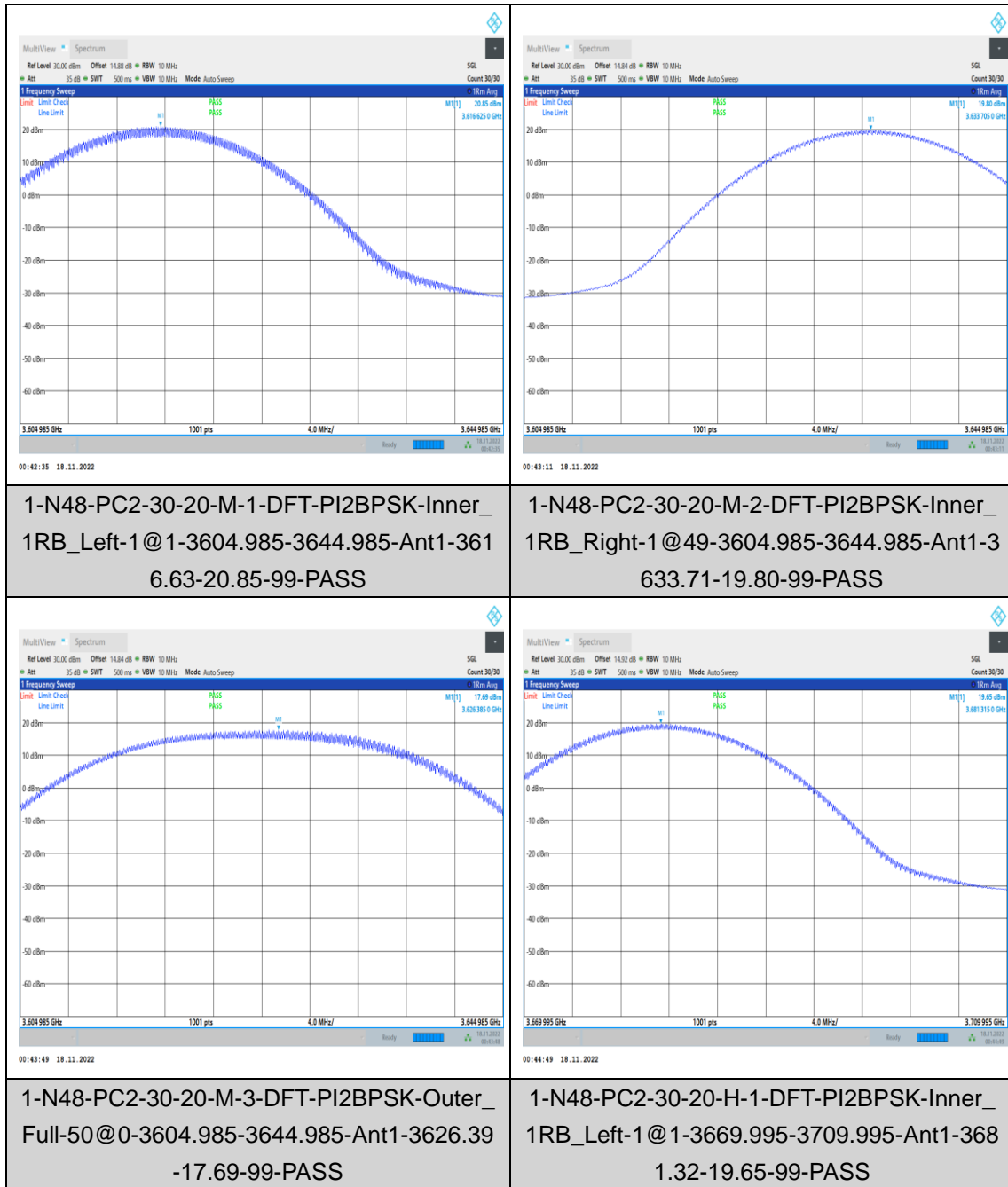


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<p>1-N48-PC2-30-20-H-2-DFT-PI2BPSK-Inner_1RB_Right-1@49-3669.995-3709.995-Ant1-3697.96-20.12-99-PASS</p>	<p>1-N48-PC2-30-20-H-3-DFT-PI2BPSK-Outer_Full-50@0-3669.995-3709.995-Ant1-3691.40-16.68-99-PASS</p>
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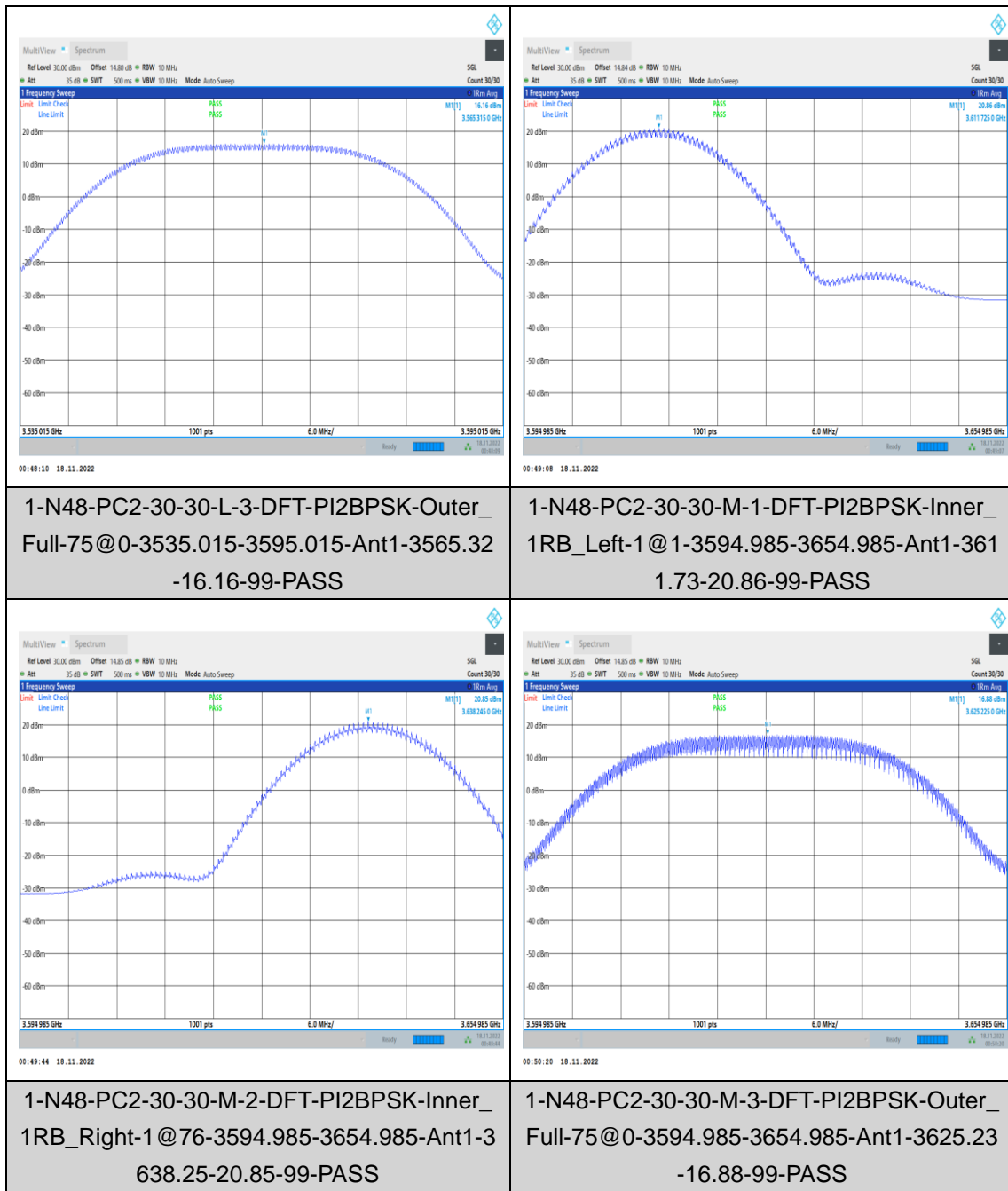


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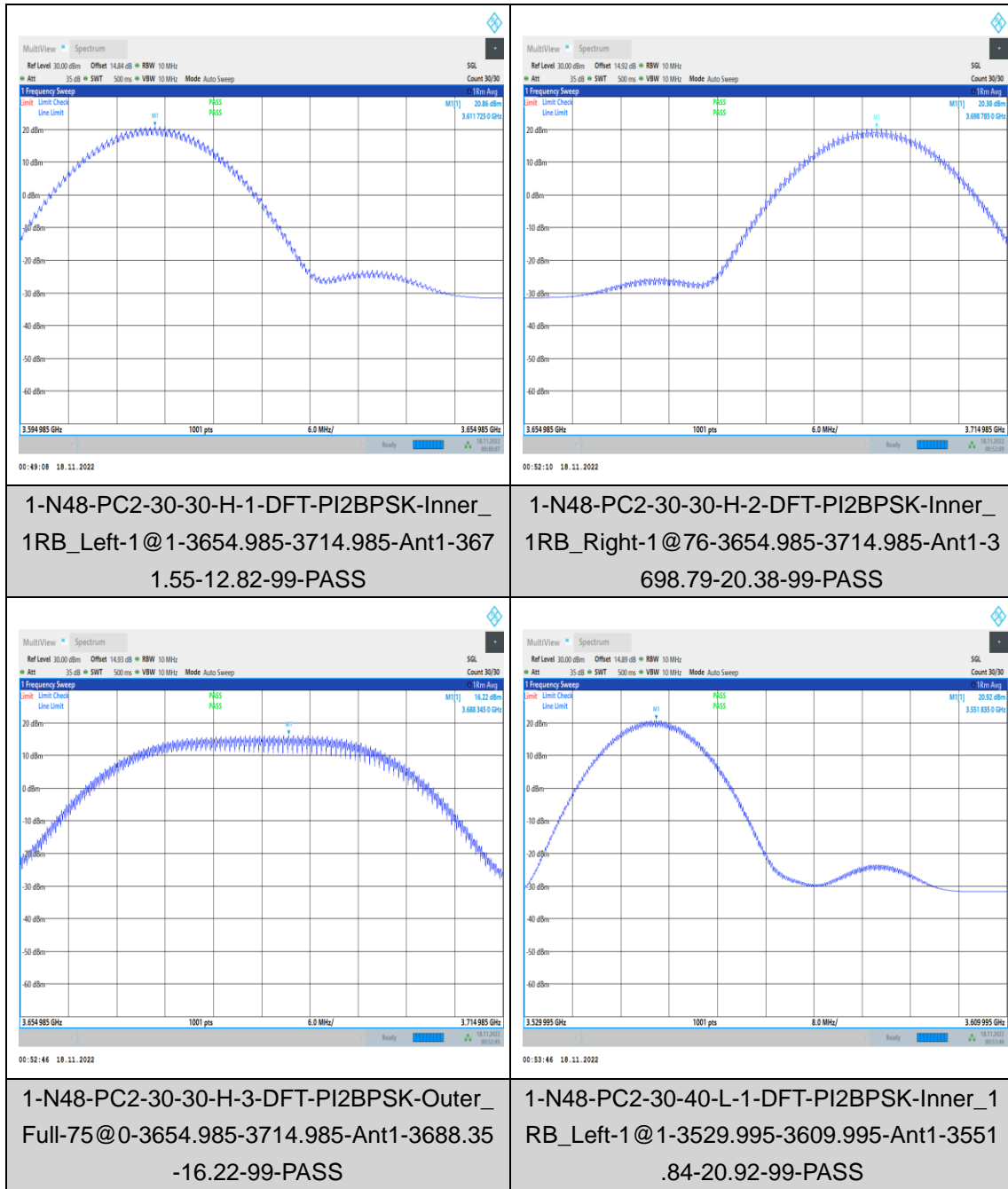
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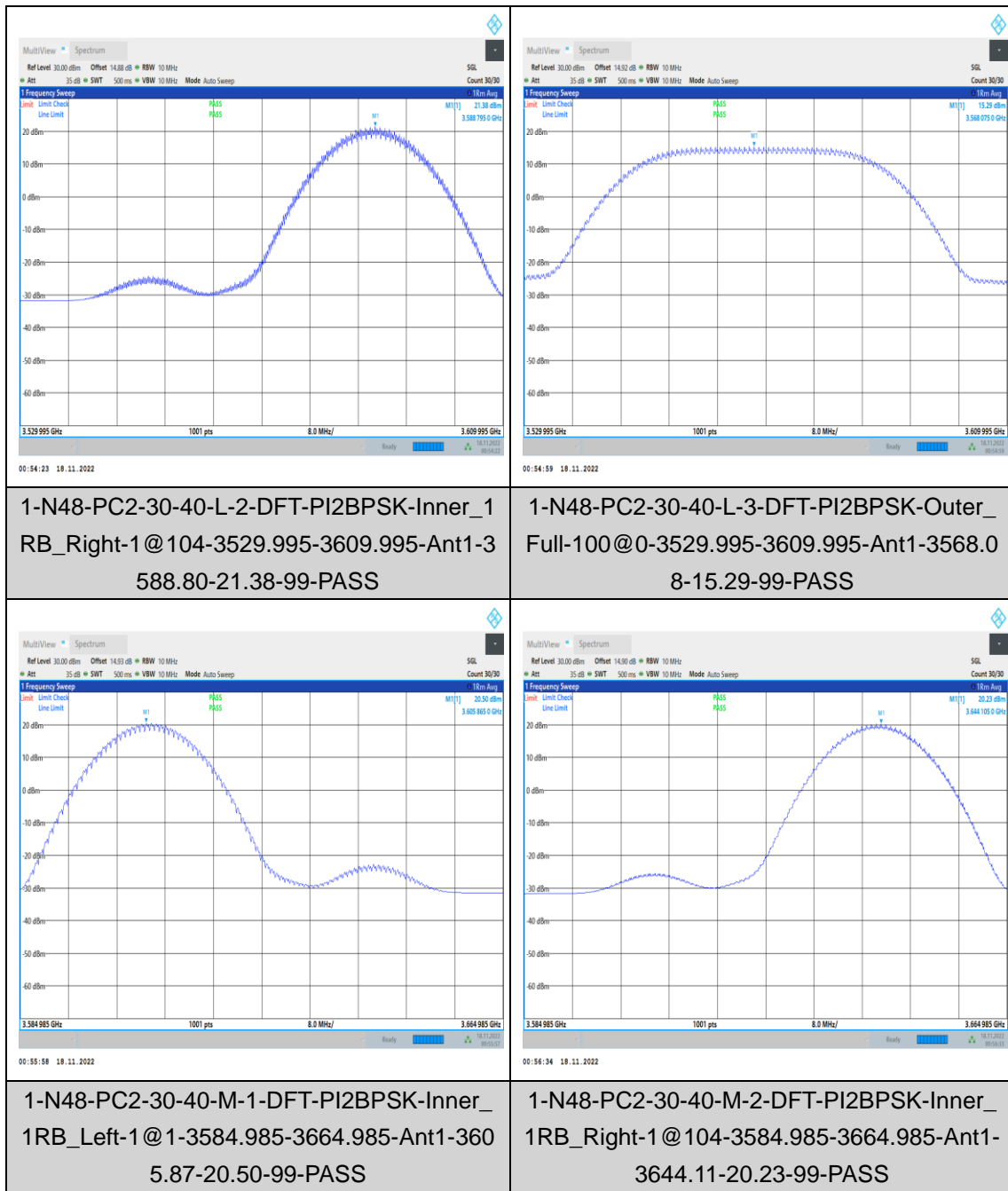
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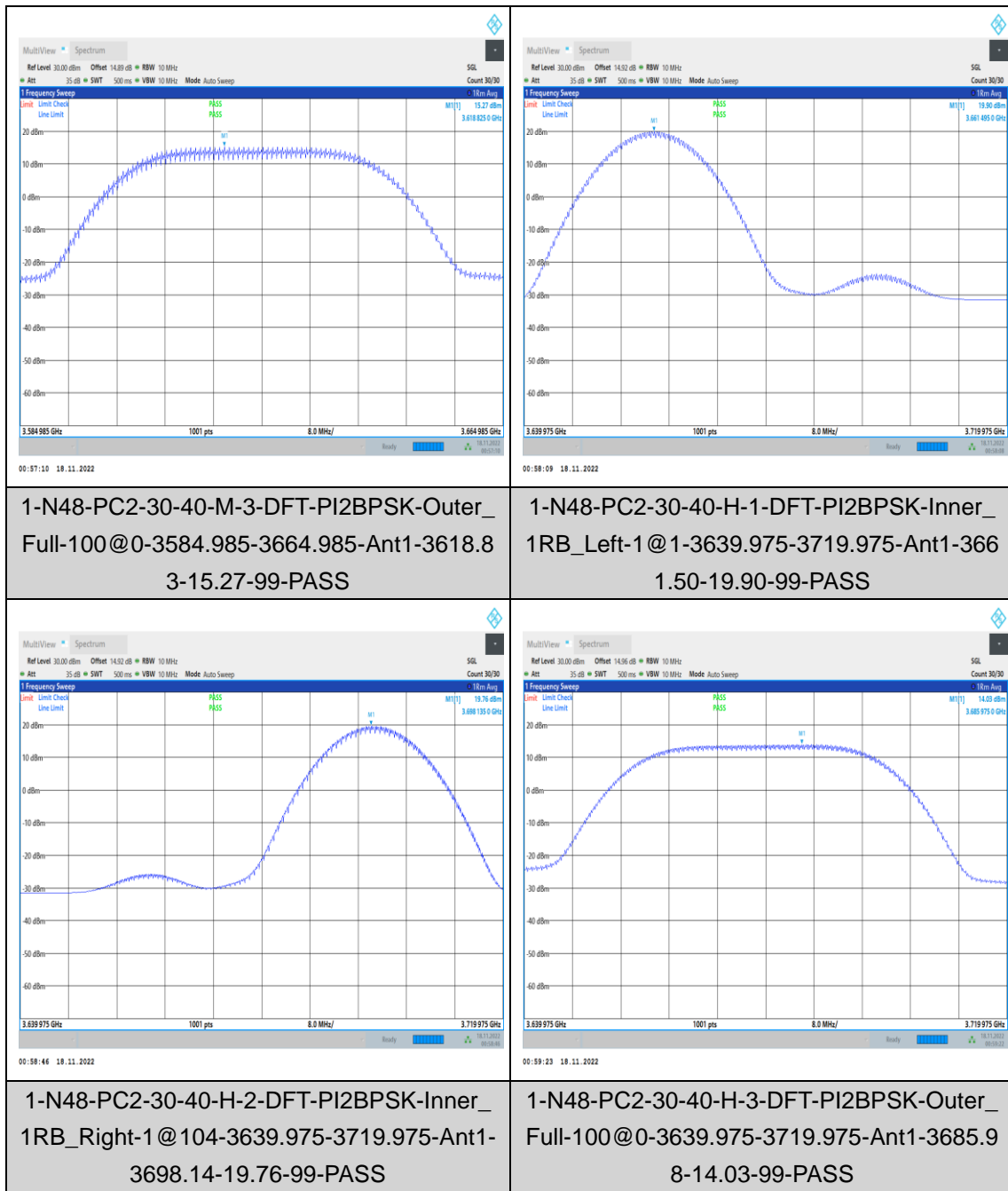


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