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Appendix B.36

NR Band n77(3450-3550)



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99% & 26dB Bandwidth

Test Result

5G NR N77a(3450-3550MHz) SCS=30kHz 10MHz						
Modulation	Mid CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK		Outer Full	8.642	10.09	/	Pass
CP-OFDM QPSK		Outer Full	8.629	9.83	/	Pass

5G NR N77a(3450-3550MHz) SCS=30kHz 15MHz						
Modulation	Mid CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK		Outer Full	12.975	14.68	/	Pass
CP-OFDM QPSK		Outer Full	13.703	15.55	/	Pass

5G NR N77a(3450-3550MHz) SCS=30kHz 20MHz						
Modulation	Mid CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK		Outer Full	17.926	20.09	/	Pass
CP-OFDM QPSK		Outer Full	18.298	20.22	/	Pass



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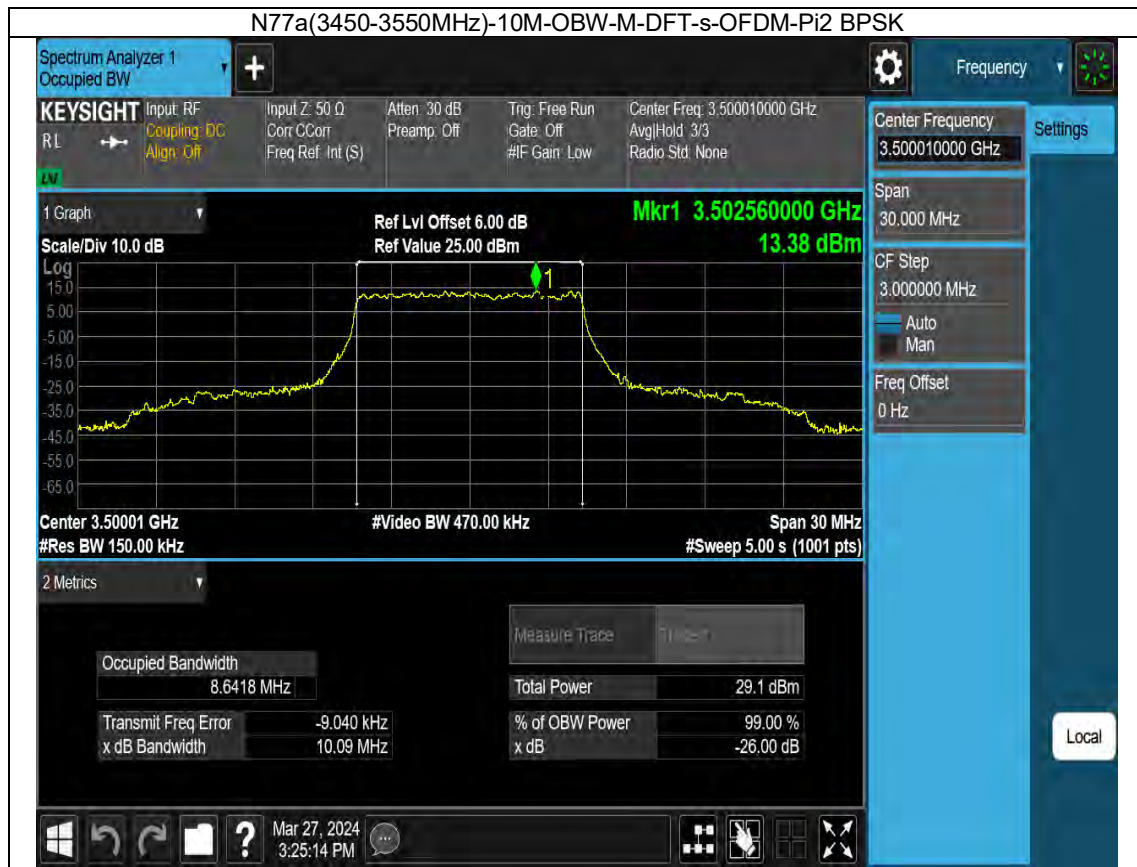
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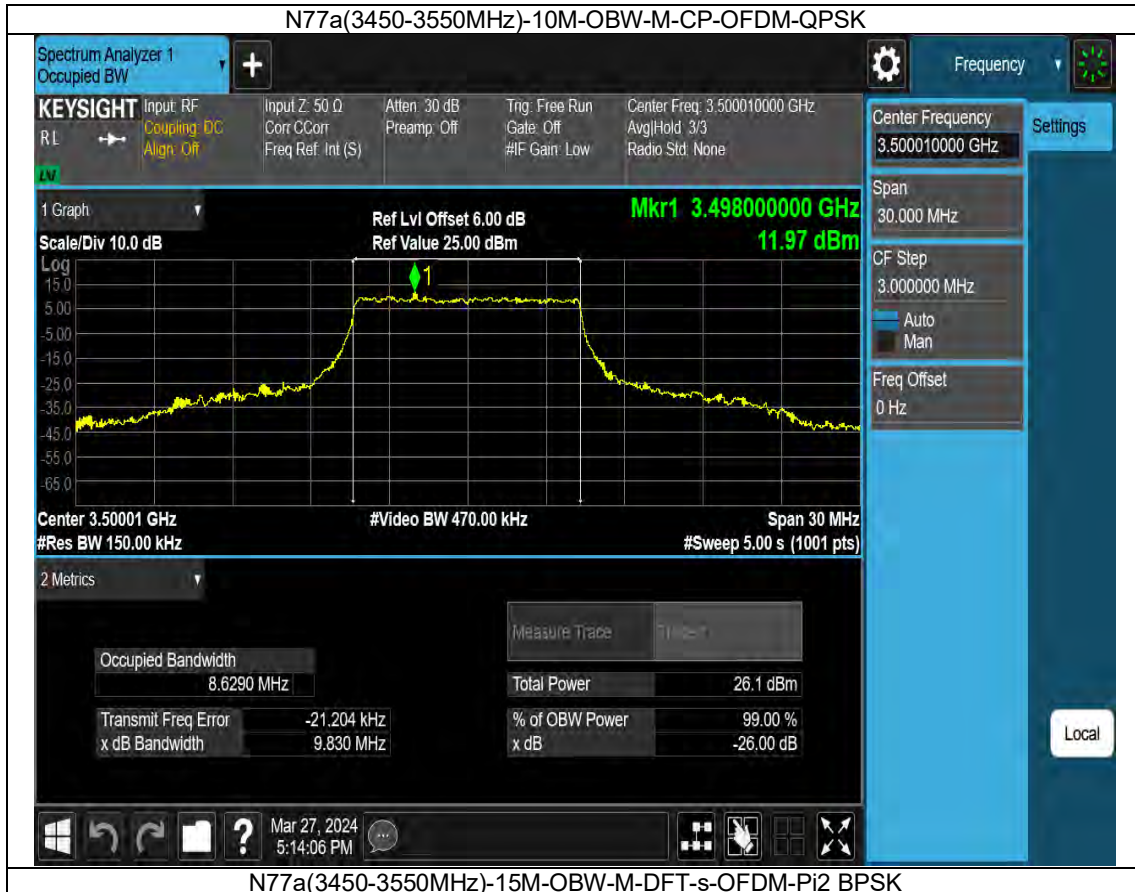


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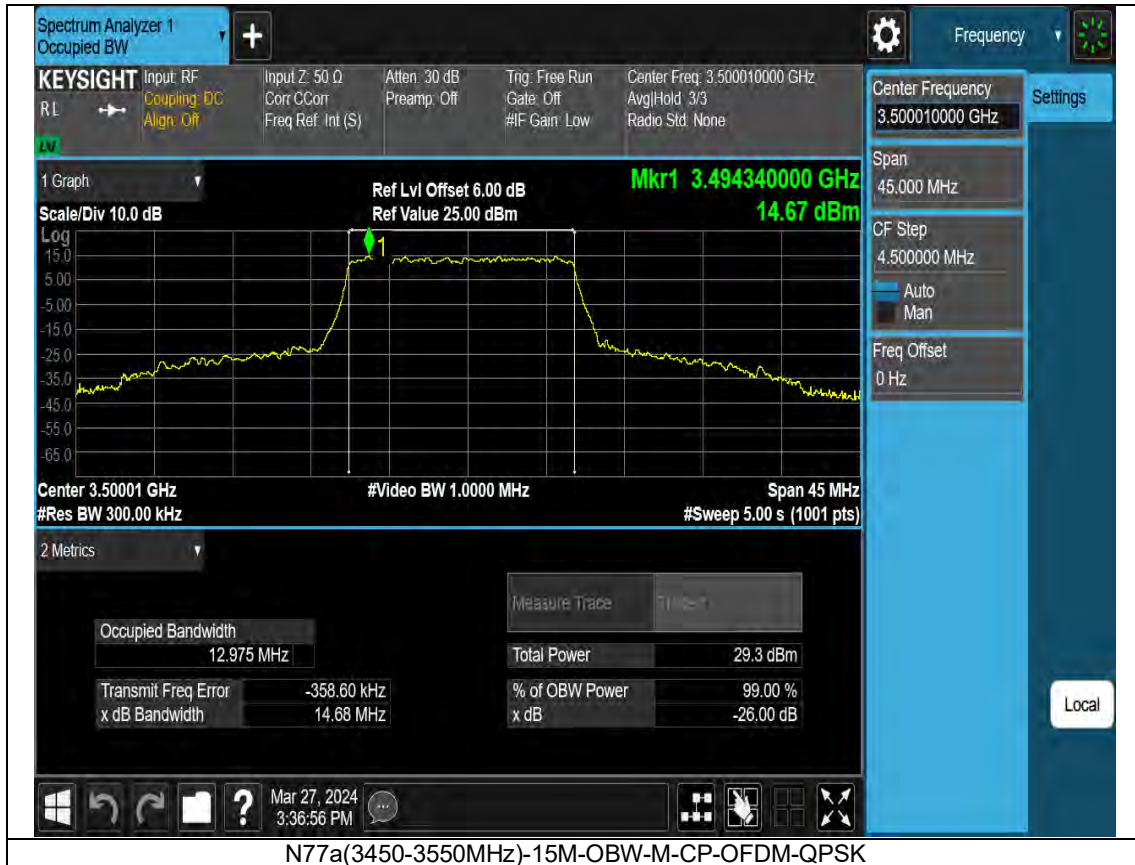
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Peak-Average Ratio

Test Result

5G NR N77a(3450-3550MHz) SCS=30kHz 10MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	4.64	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.96	<=13	Pass

5G NR N77a(3450-3550MHz) SCS=30kHz 15MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	4.81	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.76	<=13	Pass

5G NR N77a(3450-3550MHz) SCS=30kHz 20MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	6.73	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.67	<=13	Pass



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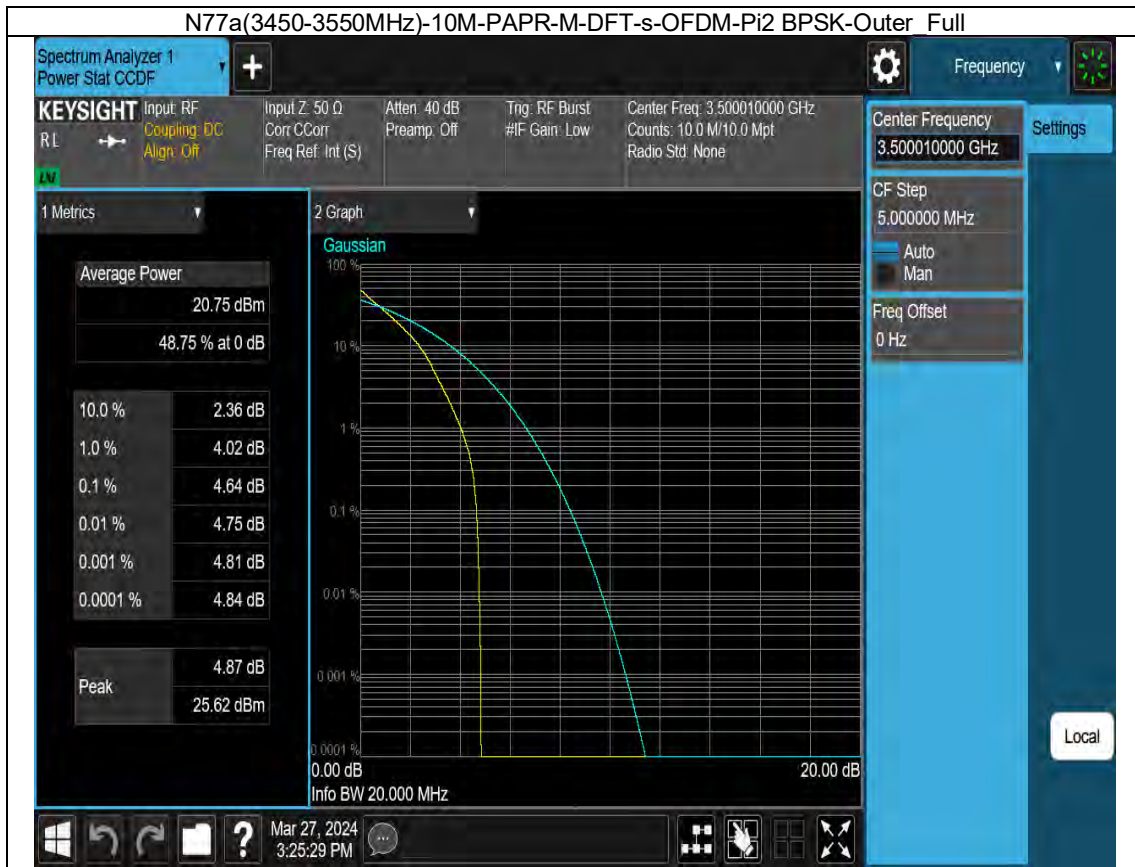
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Test Graph



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N77a(3450-3550MHz)-15M-PAPR-M-DFT-s-OFDM-Pi2 BPSK-Outer Full



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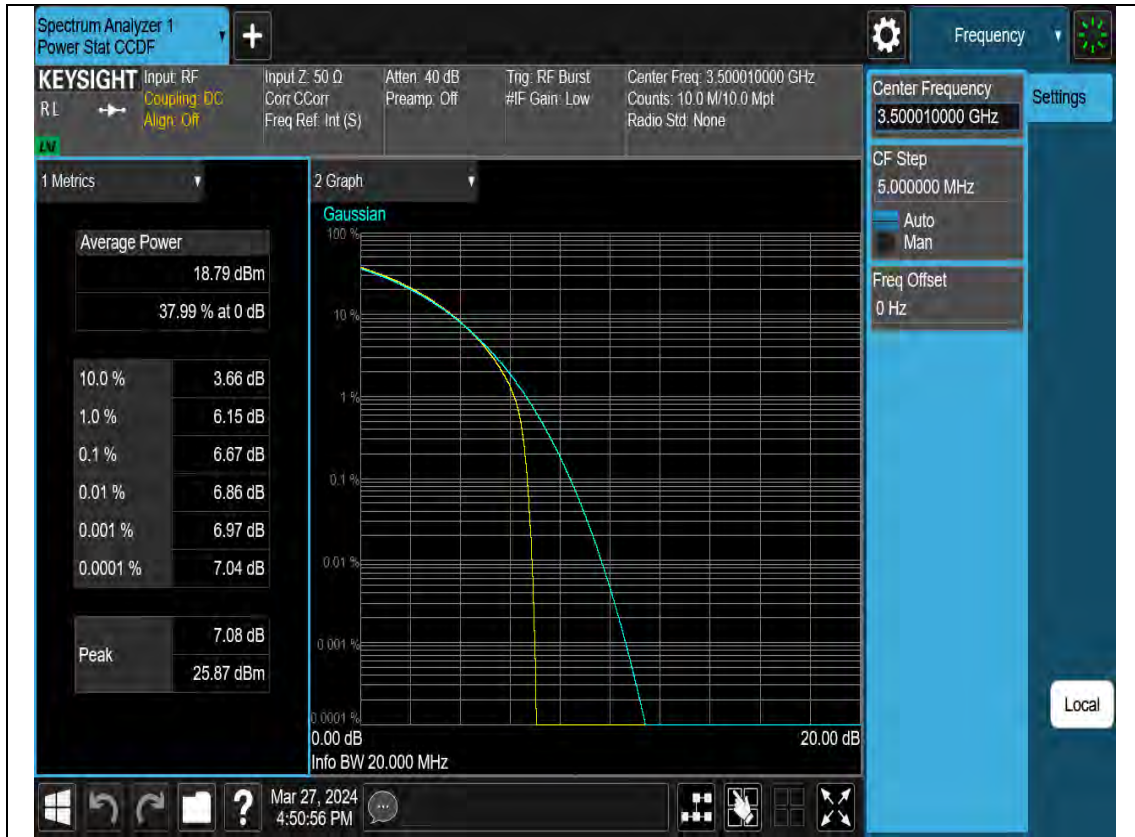
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N77a(3450-3550MHz)-20M-Bandedge-H-CP-OFDM-QPSK-Outer_Full



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Conducted spurious emissions

test graph



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N77a(3450-3550MHz)-10M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-37GHz



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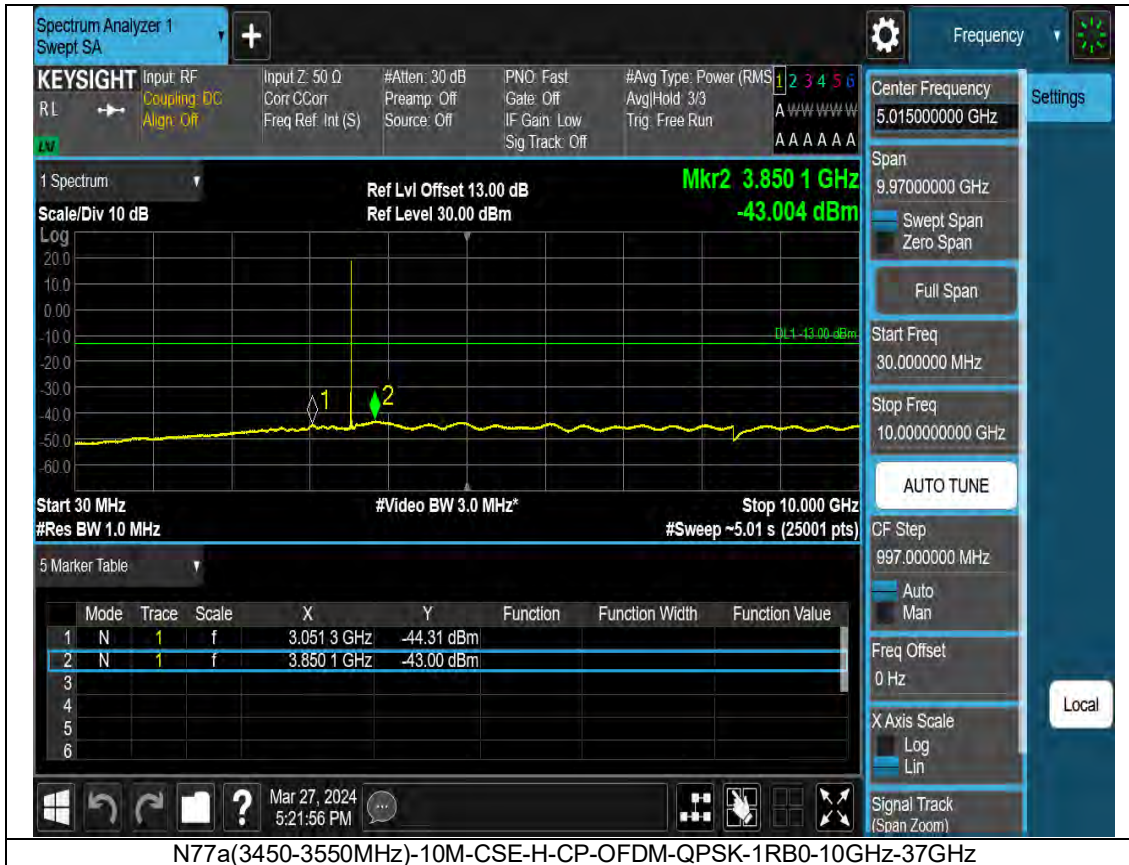
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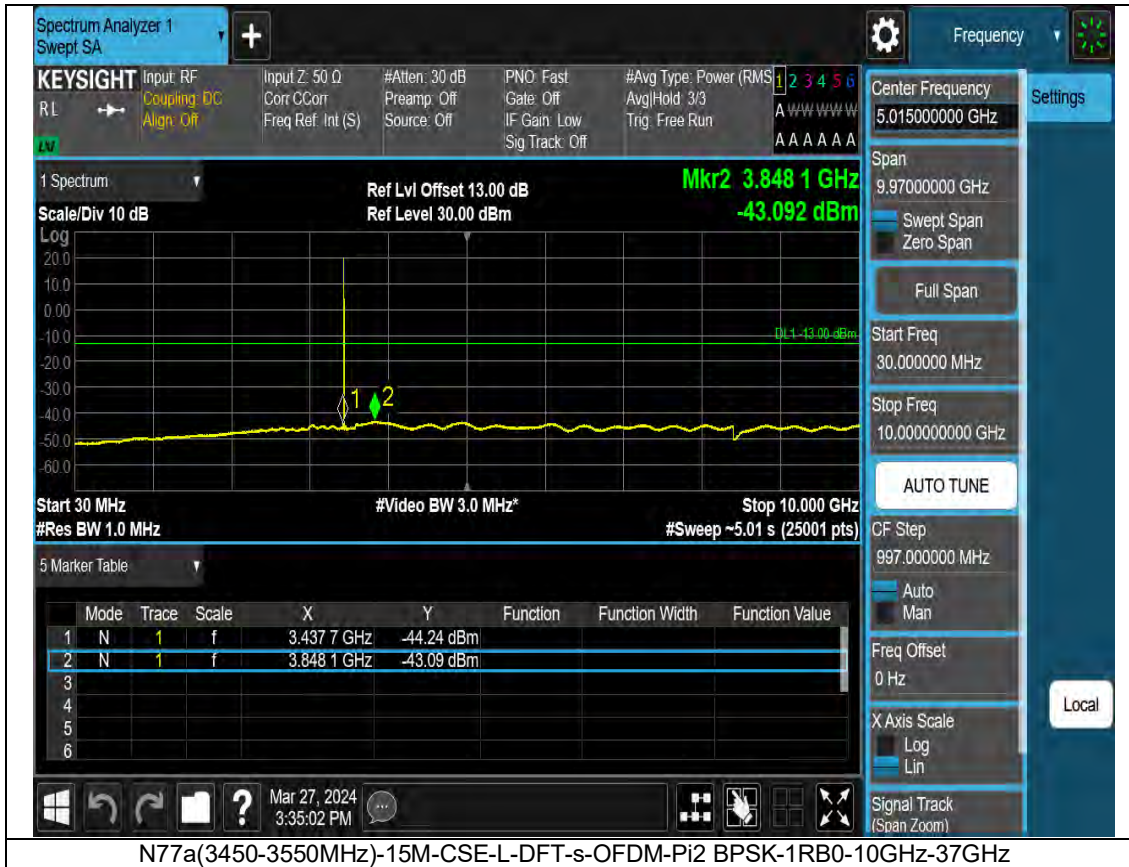
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N77a(3450-3550MHz)-15M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz



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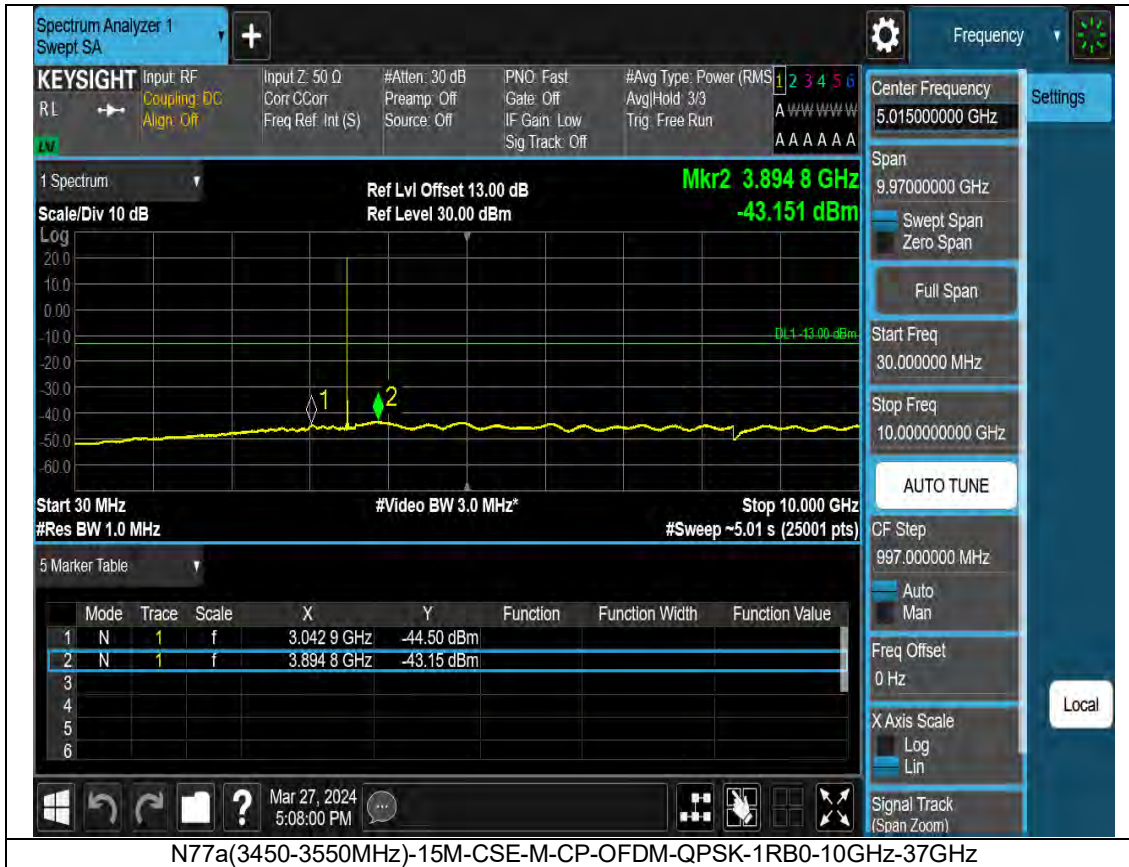
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N77a(3450-3550MHz)-15M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-37GHz



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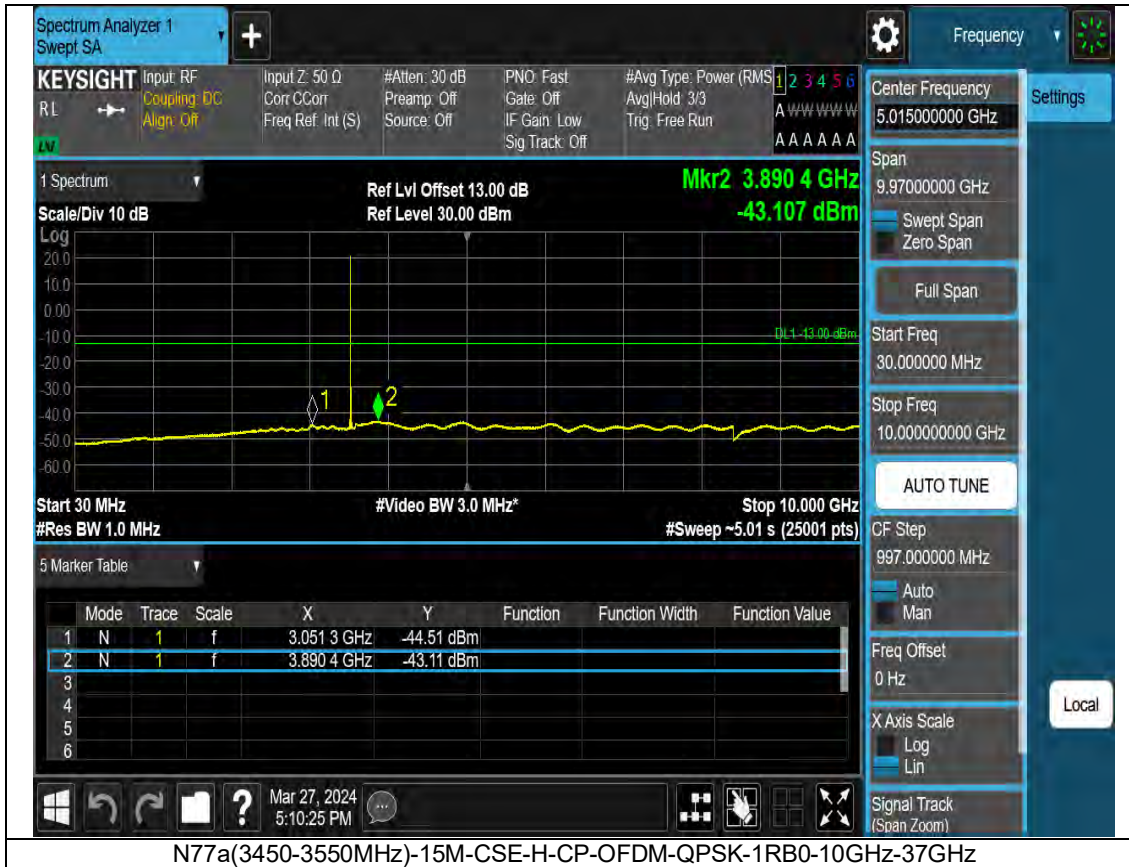
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Effective (Isotropic) Radiated Power Output Data

Bandwidth	Modulation	Frequency (MHz)	RB Allocation	Conducted Power (dBm)	EIRP (dBm)	Limit	Verdict	Gain
10MHz	DFT-s-OFDM PI/2 BPSK	3455.01MHz	Edge_Full_Left	21.98	24.93	30	Pass	2.95
			Edge_Full_Right	21.82	24.77	30	Pass	2.95
			Edge_1RB_Left	21.79	24.74	30	Pass	2.95
			Edge_1RB_Right	21.64	24.59	30	Pass	2.95
			Outer_Full	22.19	25.14	30	Pass	2.95
			Inner_Full	22.48	25.43	30	Pass	2.95
			Inner_1RB_Left	22.27	25.22	30	Pass	2.95
			Inner_1RB_Right	22.11	25.06	30	Pass	2.95
	DFT-s-OFDM QPSK		Edge_Full_Left	21.45	24.4	30	Pass	2.95
			Edge_Full_Right	21.38	24.33	30	Pass	2.95
			Edge_1RB_Left	21.2	24.15	30	Pass	2.95
			Edge_1RB_Right	21.18	24.13	30	Pass	2.95
			Outer_Full	21.67	24.62	30	Pass	2.95
			Inner_Full	22.41	25.36	30	Pass	2.95
			Inner_1RB_Left	22.34	25.29	30	Pass	2.95
			Inner_1RB_Right	22.24	25.19	30	Pass	2.95
	DFT-s-OFDM 16QAM		Edge_Full_Left	20.32	23.27	30	Pass	2.95
			Edge_Full_Right	20.39	23.34	30	Pass	2.95
			Edge_1RB_Left	20.04	22.99	30	Pass	2.95
			Edge_1RB_Right	20.05	23	30	Pass	2.95
			Outer_Full	20.53	23.48	30	Pass	2.95
			Inner_Full	21.47	24.42	30	Pass	2.95
			Inner_1RB_Left	21.07	24.02	30	Pass	2.95
			Inner_1RB_Right	21	23.95	30	Pass	2.95
	DFT-s-OFDM 64QAM		Edge_Full_Left	20	22.95	30	Pass	2.95
			Edge_Full_Right	19.98	22.93	30	Pass	2.95
			Edge_1RB_Left	19.42	22.37	30	Pass	2.95
			Edge_1RB_Right	19.67	22.62	30	Pass	2.95
			Outer_Full	20.27	23.22	30	Pass	2.95



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CP-OFDM QPSK	Inner_Full	19.97	22.92	30	Pass	2.95	
	Inner_1RB_Left	19.71	22.66	30	Pass	2.95	
	Inner_1RB_Right	19.53	22.48	30	Pass	2.95	
	Edge_Full_Left	19.59	22.54	30	Pass	2.95	
	Edge_Full_Right	19.54	22.49	30	Pass	2.95	
	Edge_1RB_Left	18.73	21.68	30	Pass	2.95	
	Edge_1RB_Right	18.41	21.36	30	Pass	2.95	
	Outer_Full	19.78	22.73	30	Pass	2.95	
	Inner_Full	20.93	23.88	30	Pass	2.95	
	Inner_1RB_Left	20.27	23.22	30	Pass	2.95	
CP-OFDM 16QAM	Inner_1RB_Right	20.37	23.32	30	Pass	2.95	
	Edge_Full_Left	19.28	22.23	30	Pass	2.95	
	Edge_Full_Right	19.29	22.24	30	Pass	2.95	
	Edge_1RB_Left	19.18	22.13	30	Pass	2.95	
	Edge_1RB_Right	18.89	21.84	30	Pass	2.95	
	Outer_Full	19.54	22.49	30	Pass	2.95	
	Inner_Full	20.55	23.5	30	Pass	2.95	
	Inner_1RB_Left	19.78	22.73	30	Pass	2.95	
	Inner_1RB_Right	19.88	22.83	30	Pass	2.95	
	CP-OFDM 64QAM	Edge_Full_Left	18.67	21.62	30	Pass	2.95
Edge_Full_Right		18.95	21.9	30	Pass	2.95	
Edge_1RB_Left		18.43	21.38	30	Pass	2.95	
Edge_1RB_Right		18.39	21.34	30	Pass	2.95	
Outer_Full		19.23	22.18	30	Pass	2.95	
Inner_Full		19.02	21.97	30	Pass	2.95	
Inner_1RB_Left		18.45	21.4	30	Pass	2.95	
Inner_1RB_Right		18.45	21.4	30	Pass	2.95	
DFT-s-OFDM PI/2 BPSK 3500.01MHz		Edge_Full_Left	21.25	24.2	30	Pass	2.95
		Edge_Full_Right	21.23	24.18	30	Pass	2.95
	Edge_1RB_Left	21.14	24.09	30	Pass	2.95	
	Edge_1RB_Right	21.1	24.05	30	Pass	2.95	
	Outer_Full	21.52	24.47	30	Pass	2.95	
	Inner_Full	21.89	24.84	30	Pass	2.95	



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DFT-s-OFDM QPSK	Inner_1RB_Left	21.54	24.49	30	Pass	2.95	
	Inner_1RB_Right	21.62	24.57	30	Pass	2.95	
	Edge_Full_Left	20.68	23.63	30	Pass	2.95	
	Edge_Full_Right	20.67	23.62	30	Pass	2.95	
	Edge_1RB_Left	20.82	23.77	30	Pass	2.95	
	Edge_1RB_Right	20.66	23.61	30	Pass	2.95	
	Outer_Full	21.03	23.98	30	Pass	2.95	
	Inner_Full	21.87	24.82	30	Pass	2.95	
	Inner_1RB_Left	21.81	24.76	30	Pass	2.95	
	Inner_1RB_Right	21.78	24.73	30	Pass	2.95	
	Edge_Full_Left	19.7	22.65	30	Pass	2.95	
	Edge_Full_Right	19.75	22.7	30	Pass	2.95	
DFT-s-OFDM 16QAM	Edge_1RB_Left	19.46	22.41	30	Pass	2.95	
	Edge_1RB_Right	19.52	22.47	30	Pass	2.95	
	Outer_Full	19.98	22.93	30	Pass	2.95	
	Inner_Full	20.83	23.78	30	Pass	2.95	
	Inner_1RB_Left	20.46	23.41	30	Pass	2.95	
	Inner_1RB_Right	20.48	23.43	30	Pass	2.95	
	Edge_Full_Left	19.36	22.31	30	Pass	2.95	
	Edge_Full_Right	19.47	22.42	30	Pass	2.95	
	Edge_1RB_Left	19.07	22.02	30	Pass	2.95	
	Edge_1RB_Right	19.08	22.03	30	Pass	2.95	
	Outer_Full	19.54	22.49	30	Pass	2.95	
	Inner_Full	19.39	22.34	30	Pass	2.95	
DFT-s-OFDM 64QAM	Inner_1RB_Left	19.09	22.04	30	Pass	2.95	
	Inner_1RB_Right	19.02	21.97	30	Pass	2.95	
	Edge_Full_Left	19.08	22.03	30	Pass	2.95	
	Edge_Full_Right	18.73	21.68	30	Pass	2.95	
	Edge_1RB_Left	18.6	21.55	30	Pass	2.95	
	Edge_1RB_Right	18.4	21.35	30	Pass	2.95	
	Outer_Full	19.16	22.11	30	Pass	2.95	
	Inner_Full	20.33	23.28	30	Pass	2.95	
	CP-OFDM QPSK	Inner_1RB_Left	19.9	22.85	30	Pass	2.95



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CP-OFDM 16QAM		Inner_1RB_Right	20.17	23.12	30	Pass	2.95
		Edge_Full_Left	18.79	21.74	30	Pass	2.95
		Edge_Full_Right	18.96	21.91	30	Pass	2.95
		Edge_1RB_Left	18.24	21.19	30	Pass	2.95
		Edge_1RB_Right	18.15	21.1	30	Pass	2.95
		Outer_Full	18.84	21.79	30	Pass	2.95
		Inner_Full	19.83	22.78	30	Pass	2.95
		Inner_1RB_Left	19.46	22.41	30	Pass	2.95
CP-OFDM 64QAM		Inner_1RB_Right	19.69	22.64	30	Pass	2.95
		Edge_Full_Left	18.38	21.33	30	Pass	2.95
		Edge_Full_Right	18.44	21.39	30	Pass	2.95
		Edge_1RB_Left	18.14	21.09	30	Pass	2.95
		Edge_1RB_Right	18.25	21.2	30	Pass	2.95
		Outer_Full	18.5	21.45	30	Pass	2.95
		Inner_Full	18.22	21.17	30	Pass	2.95
		Inner_1RB_Left	18.21	21.16	30	Pass	2.95
DFT-s-OFDM PI/2 BPSK	3545.01MHz	Inner_1RB_Right	18.41	21.36	30	Pass	2.95
		Edge_Full_Left	21.25	24.2	30	Pass	2.95
		Edge_Full_Right	21.11	24.06	30	Pass	2.95
		Edge_1RB_Left	21.16	24.11	30	Pass	2.95
		Edge_1RB_Right	21.16	24.11	30	Pass	2.95
		Outer_Full	21.52	24.47	30	Pass	2.95
		Inner_Full	21.73	24.68	30	Pass	2.95
		Inner_1RB_Left	21.73	24.68	30	Pass	2.95
DFT-s-OFDM QPSK		Inner_1RB_Right	21.55	24.5	30	Pass	2.95
		Edge_Full_Left	20.66	23.61	30	Pass	2.95
		Edge_Full_Right	20.6	23.55	30	Pass	2.95
		Edge_1RB_Left	20.73	23.68	30	Pass	2.95
		Edge_1RB_Right	20.7	23.65	30	Pass	2.95
		Outer_Full	21.07	24.02	30	Pass	2.95
		Inner_Full	21.74	24.69	30	Pass	2.95
		Inner_1RB_Left	21.81	24.76	30	Pass	2.95
		Inner_1RB_Right	21.76	24.71	30	Pass	2.95



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DFT-s-OFDM 16QAM	Edge_Full_Left	19.76	22.71	30	Pass	2.95
	Edge_Full_Right	19.62	22.57	30	Pass	2.95
	Edge_1RB_Left	19.48	22.43	30	Pass	2.95
	Edge_1RB_Right	19.44	22.39	30	Pass	2.95
	Outer_Full	20.05	23	30	Pass	2.95
	Inner_Full	20.85	23.8	30	Pass	2.95
	Inner_1RB_Left	20.46	23.41	30	Pass	2.95
	Inner_1RB_Right	20.44	23.39	30	Pass	2.95
	DFT-s-OFDM 64QAM	Edge_Full_Left	19.41	22.36	30	Pass
Edge_Full_Right		19.29	22.24	30	Pass	2.95
Edge_1RB_Left		19.42	22.37	30	Pass	2.95
Edge_1RB_Right		19.29	22.24	30	Pass	2.95
Outer_Full		19.65	22.6	30	Pass	2.95
Inner_Full		19.28	22.23	30	Pass	2.95
Inner_1RB_Left		19.4	22.35	30	Pass	2.95
Inner_1RB_Right		19.32	22.27	30	Pass	2.95
CP-OFDM QPSK		Edge_Full_Left	18.91	21.86	30	Pass
	Edge_Full_Right	18.76	21.71	30	Pass	2.95
	Edge_1RB_Left	18.1	21.05	30	Pass	2.95
	Edge_1RB_Right	18.11	21.06	30	Pass	2.95
	Outer_Full	19.02	21.97	30	Pass	2.95
	Inner_Full	20.33	23.28	30	Pass	2.95
	Inner_1RB_Left	19.77	22.72	30	Pass	2.95
	Inner_1RB_Right	19.34	22.29	30	Pass	2.95
	CP-OFDM 16QAM	Edge_Full_Left	18.79	21.74	30	Pass
Edge_Full_Right		18.64	21.59	30	Pass	2.95
Edge_1RB_Left		18.19	21.14	30	Pass	2.95
Edge_1RB_Right		18.12	21.07	30	Pass	2.95
Outer_Full		18.99	21.94	30	Pass	2.95
Inner_Full		19.84	22.79	30	Pass	2.95
Inner_1RB_Left		19.31	22.26	30	Pass	2.95
Inner_1RB_Right		19.35	22.3	30	Pass	2.95
CP-OFDM 64QAM		Edge_Full_Left	18.37	21.32	30	Pass



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			Edge_Full_Right	18.08	21.03	30	Pass	2.95
			Edge_1RB_Left	17.72	20.67	30	Pass	2.95
			Edge_1RB_Right	17.7	20.65	30	Pass	2.95
			Outer_Full	18.54	21.49	30	Pass	2.95
			Inner_Full	18.36	21.31	30	Pass	2.95
			Inner_1RB_Left	17.8	20.75	30	Pass	2.95
			Inner_1RB_Right	17.76	20.71	30	Pass	2.95
15MHz	DFT-s-OFDM PI/2 BPSK	3457.5MHz	Edge_Full_Left	21.82	24.77	30	Pass	2.95
			Edge_Full_Right	21.94	24.89	30	Pass	2.95
			Edge_1RB_Left	21.64	24.59	30	Pass	2.95
			Edge_1RB_Right	21.84	24.79	30	Pass	2.95
			Outer_Full	22.02	24.97	30	Pass	2.95
			Inner_Full	22.39	25.34	30	Pass	2.95
			Inner_1RB_Left	22.17	25.12	30	Pass	2.95
	Inner_1RB_Right	22.4	25.35	30	Pass	2.95		
	DFT-s-OFDM QPSK	Edge_Full_Left	21.13	24.08	30	Pass	2.95	
		Edge_Full_Right	21.41	24.36	30	Pass	2.95	
		Edge_1RB_Left	20.55	23.5	30	Pass	2.95	
		Edge_1RB_Right	20.84	23.79	30	Pass	2.95	
		Outer_Full	21.54	24.49	30	Pass	2.95	
		Inner_Full	22.35	25.3	30	Pass	2.95	
		Inner_1RB_Left	22.01	24.96	30	Pass	2.95	
	Inner_1RB_Right	22.15	25.1	30	Pass	2.95		
	DFT-s-OFDM 16QAM	Edge_Full_Left	20.12	23.07	30	Pass	2.95	
		Edge_Full_Right	20.23	23.18	30	Pass	2.95	
		Edge_1RB_Left	20.15	23.1	30	Pass	2.95	
		Edge_1RB_Right	20.35	23.3	30	Pass	2.95	
		Outer_Full	20.6	23.55	30	Pass	2.95	
		Inner_Full	21.41	24.36	30	Pass	2.95	
		Inner_1RB_Left	21.24	24.19	30	Pass	2.95	
	Inner_1RB_Right	21.37	24.32	30	Pass	2.95		
DFT-s-OFDM 64QAM	Edge_Full_Left	19.92	22.87	30	Pass	2.95		
	Edge_Full_Right	19.99	22.94	30	Pass	2.95		



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CP-OFDM QPSK	Edge_1RB_Left	19.41	22.36	30	Pass	2.95	
	Edge_1RB_Right	19.48	22.43	30	Pass	2.95	
	Outer_Full	20.1	23.05	30	Pass	2.95	
	Inner_Full	19.93	22.88	30	Pass	2.95	
	Inner_1RB_Left	19.42	22.37	30	Pass	2.95	
	Inner_1RB_Right	19.47	22.42	30	Pass	2.95	
	Edge_Full_Left	18.91	21.86	30	Pass	2.95	
	Edge_Full_Right	19.35	22.3	30	Pass	2.95	
	Edge_1RB_Left	19.51	22.46	30	Pass	2.95	
	Edge_1RB_Right	19.51	22.46	30	Pass	2.95	
	Outer_Full	19.7	22.65	30	Pass	2.95	
	Inner_Full	20.83	23.78	30	Pass	2.95	
CP-OFDM 16QAM	Inner_1RB_Left	20.79	23.74	30	Pass	2.95	
	Inner_1RB_Right	21.06	24.01	30	Pass	2.95	
	Edge_Full_Left	18.71	21.66	30	Pass	2.95	
	Edge_Full_Right	18.98	21.93	30	Pass	2.95	
	Edge_1RB_Left	19.03	21.98	30	Pass	2.95	
	Edge_1RB_Right	19.01	21.96	30	Pass	2.95	
	Outer_Full	19.55	22.5	30	Pass	2.95	
	Inner_Full	20.41	23.36	30	Pass	2.95	
	Inner_1RB_Left	19.92	22.87	30	Pass	2.95	
	Inner_1RB_Right	20.14	23.09	30	Pass	2.95	
	CP-OFDM 64QAM	Edge_Full_Left	18.43	21.38	30	Pass	2.95
		Edge_Full_Right	18.68	21.63	30	Pass	2.95
Edge_1RB_Left		19.18	22.13	30	Pass	2.95	
Edge_1RB_Right		19.15	22.1	30	Pass	2.95	
Outer_Full		19.14	22.09	30	Pass	2.95	
Inner_Full		18.82	21.77	30	Pass	2.95	
Inner_1RB_Left		19.01	21.96	30	Pass	2.95	
Inner_1RB_Right		19.06	22.01	30	Pass	2.95	
DFT-s-OFDM PI/2 BPSK 3500.01MHz		Edge_Full_Left	21.02	23.97	30	Pass	2.95
		Edge_Full_Right	21.1	24.05	30	Pass	2.95
		Edge_1RB_Left	21.22	24.17	30	Pass	2.95



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DFT-s-OFDM QPSK	Edge_1RB_Right	21.06	24.01	30	Pass	2.95	
	Outer_Full	21.4	24.35	30	Pass	2.95	
	Inner_Full	21.81	24.76	30	Pass	2.95	
	Inner_1RB_Left	21.65	24.6	30	Pass	2.95	
	Inner_1RB_Right	21.57	24.52	30	Pass	2.95	
	Edge_Full_Left	20.57	23.52	30	Pass	2.95	
	Edge_Full_Right	20.47	23.42	30	Pass	2.95	
	Edge_1RB_Left	19.99	22.94	30	Pass	2.95	
	Edge_1RB_Right	20.33	23.28	30	Pass	2.95	
	Outer_Full	20.94	23.89	30	Pass	2.95	
	Inner_Full	21.78	24.73	30	Pass	2.95	
	Inner_1RB_Left	21.23	24.18	30	Pass	2.95	
DFT-s-OFDM 16QAM	Inner_1RB_Right	21.35	24.3	30	Pass	2.95	
	Edge_Full_Left	19.46	22.41	30	Pass	2.95	
	Edge_Full_Right	19.45	22.4	30	Pass	2.95	
	Edge_1RB_Left	19.48	22.43	30	Pass	2.95	
	Edge_1RB_Right	19.48	22.43	30	Pass	2.95	
	Outer_Full	19.8	22.75	30	Pass	2.95	
	Inner_Full	20.77	23.72	30	Pass	2.95	
	Inner_1RB_Left	20.56	23.51	30	Pass	2.95	
	Inner_1RB_Right	20.54	23.49	30	Pass	2.95	
	Edge_Full_Left	19.15	22.1	30	Pass	2.95	
	Edge_Full_Right	19.14	22.09	30	Pass	2.95	
	DFT-s-OFDM 64QAM	Edge_1RB_Left	18.65	21.6	30	Pass	2.95
Edge_1RB_Right		18.69	21.64	30	Pass	2.95	
Outer_Full		19.35	22.3	30	Pass	2.95	
Inner_Full		19.24	22.19	30	Pass	2.95	
Inner_1RB_Left		18.65	21.6	30	Pass	2.95	
Inner_1RB_Right		18.78	21.73	30	Pass	2.95	
Edge_Full_Left		18.24	21.19	30	Pass	2.95	
Edge_Full_Right		18.4	21.35	30	Pass	2.95	
Edge_1RB_Left		19.2	22.15	30	Pass	2.95	
CP-OFDM QPSK		Edge_1RB_Right	19.05	22	30	Pass	2.95



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CP-OFDM 16QAM		Outer_Full	18.9	21.85	30	Pass	2.95		
		Inner_Full	20.19	23.14	30	Pass	2.95		
		Inner_1RB_Left	20.45	23.4	30	Pass	2.95		
		Inner_1RB_Right	20.48	23.43	30	Pass	2.95		
		Edge_Full_Left	18.49	21.44	30	Pass	2.95		
		Edge_Full_Right	18.43	21.38	30	Pass	2.95		
		Edge_1RB_Left	18.44	21.39	30	Pass	2.95		
		Edge_1RB_Right	18.44	21.39	30	Pass	2.95		
		Outer_Full	18.79	21.74	30	Pass	2.95		
		Inner_Full	19.6	22.55	30	Pass	2.95		
		Inner_1RB_Left	19.44	22.39	30	Pass	2.95		
		Inner_1RB_Right	19.49	22.44	30	Pass	2.95		
CP-OFDM 64QAM		Edge_Full_Left	17.89	20.84	30	Pass	2.95		
		Edge_Full_Right	17.7	20.65	30	Pass	2.95		
		Edge_1RB_Left	18.23	21.18	30	Pass	2.95		
		Edge_1RB_Right	18.23	21.18	30	Pass	2.95		
		Outer_Full	18.23	21.18	30	Pass	2.95		
		Inner_Full	18.05	21	30	Pass	2.95		
		Inner_1RB_Left	18.12	21.07	30	Pass	2.95		
		Inner_1RB_Right	18.29	21.24	30	Pass	2.95		
		DFT-s-OFDM PI/2 BPSK	3542.52MHz	Edge_Full_Left	21.17	24.12	30	Pass	2.95
				Edge_Full_Right	21.23	24.18	30	Pass	2.95
				Edge_1RB_Left	21.15	24.1	30	Pass	2.95
				Edge_1RB_Right	21.22	24.17	30	Pass	2.95
Outer_Full	21.48			24.43	30	Pass	2.95		
Inner_Full	21.79			24.74	30	Pass	2.95		
Inner_1RB_Left	21.73			24.68	30	Pass	2.95		
Inner_1RB_Right	21.72			24.67	30	Pass	2.95		
DFT-s-OFDM QPSK				Edge_Full_Left	20.68	23.63	30	Pass	2.95
				Edge_Full_Right	20.65	23.6	30	Pass	2.95
				Edge_1RB_Left	20.41	23.36	30	Pass	2.95
				Edge_1RB_Right	20.46	23.41	30	Pass	2.95
		Outer_Full	20.94	23.89	30	Pass	2.95		



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DFT-s-OFDM 16QAM	Inner_Full	21.78	24.73	30	Pass	2.95	
	Inner_1RB_Left	21.33	24.28	30	Pass	2.95	
	Inner_1RB_Right	21.36	24.31	30	Pass	2.95	
	Edge_Full_Left	19.41	22.36	30	Pass	2.95	
	Edge_Full_Right	19.46	22.41	30	Pass	2.95	
	Edge_1RB_Left	19.49	22.44	30	Pass	2.95	
	Edge_1RB_Right	19.54	22.49	30	Pass	2.95	
	Outer_Full	19.89	22.84	30	Pass	2.95	
	Inner_Full	20.78	23.73	30	Pass	2.95	
	Inner_1RB_Left	20.63	23.58	30	Pass	2.95	
DFT-s-OFDM 64QAM	Inner_1RB_Right	20.68	23.63	30	Pass	2.95	
	Edge_Full_Left	19.22	22.17	30	Pass	2.95	
	Edge_Full_Right	19.15	22.1	30	Pass	2.95	
	Edge_1RB_Left	18.95	21.9	30	Pass	2.95	
	Edge_1RB_Right	19.08	22.03	30	Pass	2.95	
	Outer_Full	19.51	22.46	30	Pass	2.95	
	Inner_Full	19.28	22.23	30	Pass	2.95	
	Inner_1RB_Left	19.07	22.02	30	Pass	2.95	
	Inner_1RB_Right	19.1	22.05	30	Pass	2.95	
	CP-OFDM QPSK	Edge_Full_Left	19	21.95	30	Pass	2.95
Edge_Full_Right		18.84	21.79	30	Pass	2.95	
Edge_1RB_Left		18.73	21.68	30	Pass	2.95	
Edge_1RB_Right		18.67	21.62	30	Pass	2.95	
Outer_Full		19.09	22.04	30	Pass	2.95	
Inner_Full		20.21	23.16	30	Pass	2.95	
Inner_1RB_Left		20.42	23.37	30	Pass	2.95	
Inner_1RB_Right		20.24	23.19	30	Pass	2.95	
CP-OFDM 16QAM		Edge_Full_Left	18.7	21.65	30	Pass	2.95
		Edge_Full_Right	18.36	21.31	30	Pass	2.95
	Edge_1RB_Left	18.79	21.74	30	Pass	2.95	
	Edge_1RB_Right	18.68	21.63	30	Pass	2.95	
	Outer_Full	18.89	21.84	30	Pass	2.95	
	Inner_Full	19.89	22.84	30	Pass	2.95	



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CP-OFDM 64QAM	Inner_1RB_Left	19.51	22.46	30	Pass	2.95
	Inner_1RB_Right	19.24	22.19	30	Pass	2.95
	Edge_Full_Left	18.1	21.05	30	Pass	2.95
	Edge_Full_Right	17.9	20.85	30	Pass	2.95
	Edge_1RB_Left	18.3	21.25	30	Pass	2.95
	Edge_1RB_Right	18.39	21.34	30	Pass	2.95
	Outer_Full	18.59	21.54	30	Pass	2.95
	Inner_Full	18.2	21.15	30	Pass	2.95
	Inner_1RB_Left	18.71	21.66	30	Pass	2.95
	Inner_1RB_Right	18.22	21.17	30	Pass	2.95
DFT-s-OFDM PI/2 BPSK	Edge_Full_Left	21.79	24.74	30	Pass	2.95
	Edge_Full_Right	22.07	25.02	30	Pass	2.95
	Edge_1RB_Left	21.83	24.78	30	Pass	2.95
	Edge_1RB_Right	22.06	25.01	30	Pass	2.95
	Outer_Full	22.28	25.23	30	Pass	2.95
	Inner_Full	22.46	25.41	30	Pass	2.95
	Inner_1RB_Left	22.12	25.07	30	Pass	2.95
	Inner_1RB_Right	22.45	25.4	30	Pass	2.95
	Edge_Full_Left	21.22	24.17	30	Pass	2.95
	Edge_Full_Right	21.58	24.53	30	Pass	2.95
DFT-s-OFDM QPSK	Edge_1RB_Left	21.19	24.14	30	Pass	2.95
	Edge_1RB_Right	21.37	24.32	30	Pass	2.95
	Outer_Full	21.84	24.79	30	Pass	2.95
	Inner_Full	22.54	25.49	30	Pass	2.95
	Inner_1RB_Left	22.08	25.03	30	Pass	2.95
	Inner_1RB_Right	22.28	25.23	30	Pass	2.95
	Edge_Full_Left	20.3	23.25	30	Pass	2.95
	Edge_Full_Right	20.28	23.23	30	Pass	2.95
	Edge_1RB_Left	20.08	23.03	30	Pass	2.95
	Edge_1RB_Right	20	22.95	30	Pass	2.95
DFT-s-OFDM 16QAM	Outer_Full	20.71	23.66	30	Pass	2.95
	Inner_Full	21.51	24.46	30	Pass	2.95
	Inner_1RB_Left	20.86	23.81	30	Pass	2.95



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DFT-s-OFDM 64QAM	Inner_1RB_Right	20.98	23.93	30	Pass	2.95
	Edge_Full_Left	19.61	22.56	30	Pass	2.95
	Edge_Full_Right	19.89	22.84	30	Pass	2.95
	Edge_1RB_Left	19.69	22.64	30	Pass	2.95
	Edge_1RB_Right	19.94	22.89	30	Pass	2.95
	Outer_Full	20.24	23.19	30	Pass	2.95
	Inner_Full	19.95	22.9	30	Pass	2.95
	Inner_1RB_Left	19.72	22.67	30	Pass	2.95
	Inner_1RB_Right	20.1	23.05	30	Pass	2.95
CP-OFDM QPSK	Edge_Full_Left	19.49	22.44	30	Pass	2.95
	Edge_Full_Right	19.71	22.66	30	Pass	2.95
	Edge_1RB_Left	19.39	22.34	30	Pass	2.95
	Edge_1RB_Right	19.35	22.3	30	Pass	2.95
	Outer_Full	19.86	22.81	30	Pass	2.95
	Inner_Full	20.93	23.88	30	Pass	2.95
	Inner_1RB_Left	20.88	23.83	30	Pass	2.95
	Inner_1RB_Right	20.96	23.91	30	Pass	2.95
	Edge_Full_Left	19.45	22.4	30	Pass	2.95
CP-OFDM 16QAM	Edge_Full_Right	19.86	22.81	30	Pass	2.95
	Edge_1RB_Left	19.12	22.07	30	Pass	2.95
	Edge_1RB_Right	19.61	22.56	30	Pass	2.95
	Outer_Full	19.84	22.79	30	Pass	2.95
	Inner_Full	20.53	23.48	30	Pass	2.95
	Inner_1RB_Left	20.07	23.02	30	Pass	2.95
	Inner_1RB_Right	20.44	23.39	30	Pass	2.95
	Edge_Full_Left	18.91	21.86	30	Pass	2.95
	Edge_Full_Right	19.03	21.98	30	Pass	2.95
CP-OFDM 64QAM	Edge_1RB_Left	18.48	21.43	30	Pass	2.95
	Edge_1RB_Right	18.82	21.77	30	Pass	2.95
	Outer_Full	19.33	22.28	30	Pass	2.95
	Inner_Full	19.03	21.98	30	Pass	2.95
	Inner_1RB_Left	18.57	21.52	30	Pass	2.95
	Inner_1RB_Right	19.16	22.11	30	Pass	2.95



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DFT-s-OFDM PI/2 BPSK	3500.01MHz	Edge_Full_Left	21.22	24.17	30	Pass	2.95		
		Edge_Full_Right	21.25	24.2	30	Pass	2.95		
		Edge_1RB_Left	21.16	24.11	30	Pass	2.95		
		Edge_1RB_Right	21.08	24.03	30	Pass	2.95		
		Outer_Full	21.51	24.46	30	Pass	2.95		
		Inner_Full	21.77	24.72	30	Pass	2.95		
		Inner_1RB_Left	21.56	24.51	30	Pass	2.95		
		Inner_1RB_Right	21.56	24.51	30	Pass	2.95		
		DFT-s-OFDM QPSK	3500.01MHz	Edge_Full_Left	20.71	23.66	30	Pass	2.95
				Edge_Full_Right	20.81	23.76	30	Pass	2.95
				Edge_1RB_Left	20.55	23.5	30	Pass	2.95
				Edge_1RB_Right	20.54	23.49	30	Pass	2.95
Outer_Full	21.09			24.04	30	Pass	2.95		
Inner_Full	21.71			24.66	30	Pass	2.95		
DFT-s-OFDM 16QAM	3500.01MHz	Inner_1RB_Left	21.4	24.35	30	Pass	2.95		
		Inner_1RB_Right	21.45	24.4	30	Pass	2.95		
		Edge_Full_Left	19.45	22.4	30	Pass	2.95		
		Edge_Full_Right	19.45	22.4	30	Pass	2.95		
		Edge_1RB_Left	19.13	22.08	30	Pass	2.95		
		Edge_1RB_Right	19.11	22.06	30	Pass	2.95		
DFT-s-OFDM 64QAM	3500.01MHz	Outer_Full	20.07	23.02	30	Pass	2.95		
		Inner_Full	20.73	23.68	30	Pass	2.95		
		Inner_1RB_Left	20.11	23.06	30	Pass	2.95		
		Inner_1RB_Right	20.11	23.06	30	Pass	2.95		
		Edge_Full_Left	19.01	21.96	30	Pass	2.95		
		Edge_Full_Right	19	21.95	30	Pass	2.95		
CP-OFDM QPSK	3500.01MHz	Edge_1RB_Left	19.19	22.14	30	Pass	2.95		
		Edge_1RB_Right	19	21.95	30	Pass	2.95		
		Outer_Full	19.4	22.35	30	Pass	2.95		
		Inner_Full	19.29	22.24	30	Pass	2.95		
		Inner_1RB_Left	19.19	22.14	30	Pass	2.95		
		Inner_1RB_Right	19.12	22.07	30	Pass	2.95		
		Edge_Full_Left	18.45	21.4	30	Pass	2.95		



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		Edge_Full_Right	18.51	21.46	30	Pass	2.95	
		Edge_1RB_Left	18.82	21.77	30	Pass	2.95	
		Edge_1RB_Right	18.59	21.54	30	Pass	2.95	
		Outer_Full	19	21.95	30	Pass	2.95	
		Inner_Full	20.33	23.28	30	Pass	2.95	
		Inner_1RB_Left	20.4	23.35	30	Pass	2.95	
		Inner_1RB_Right	20.26	23.21	30	Pass	2.95	
CP-OFDM 16QAM		Edge_Full_Left	19.02	21.97	30	Pass	2.95	
		Edge_Full_Right	18.85	21.8	30	Pass	2.95	
		Edge_1RB_Left	18.47	21.42	30	Pass	2.95	
		Edge_1RB_Right	18.62	21.57	30	Pass	2.95	
		Outer_Full	18.91	21.86	30	Pass	2.95	
		Inner_Full	19.77	22.72	30	Pass	2.95	
CP-OFDM 64QAM		Inner_1RB_Left	19.61	22.56	30	Pass	2.95	
		Inner_1RB_Right	19.61	22.56	30	Pass	2.95	
		Edge_Full_Left	18.04	20.99	30	Pass	2.95	
		Edge_Full_Right	17.95	20.9	30	Pass	2.95	
		Edge_1RB_Left	17.95	20.9	30	Pass	2.95	
		Edge_1RB_Right	17.96	20.91	30	Pass	2.95	
DFT-s-OFDM PI/2 BPSK		Outer_Full	18.52	21.47	30	Pass	2.95	
		Inner_Full	18.21	21.16	30	Pass	2.95	
		Inner_1RB_Left	17.95	20.9	30	Pass	2.95	
		Inner_1RB_Right	18	20.95	30	Pass	2.95	
	DFT-s-OFDM QPSK		Edge_Full_Left	21.25	24.2	30	Pass	2.95
			Edge_Full_Right	21.29	24.24	30	Pass	2.95
		Edge_1RB_Left	20.98	23.93	30	Pass	2.95	
		Edge_1RB_Right	21.07	24.02	30	Pass	2.95	
		Outer_Full	21.65	24.6	30	Pass	2.95	
		Inner_Full	21.78	24.73	30	Pass	2.95	
	Inner_1RB_Left	21.57	24.52	30	Pass	2.95		
	Inner_1RB_Right	21.69	24.64	30	Pass	2.95		
	Edge_Full_Left	20.72	23.67	30	Pass	2.95		
	Edge_Full_Right	20.78	23.73	30	Pass	2.95		



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DFT-s-OFDM 16QAM	Edge_1RB_Left	20.5	23.45	30	Pass	2.95	
	Edge_1RB_Right	20.57	23.52	30	Pass	2.95	
	Outer_Full	21	23.95	30	Pass	2.95	
	Inner_Full	21.8	24.75	30	Pass	2.95	
	Inner_1RB_Left	21.59	24.54	30	Pass	2.95	
	Inner_1RB_Right	21.67	24.62	30	Pass	2.95	
	Edge_Full_Left	19.5	22.45	30	Pass	2.95	
	Edge_Full_Right	19.61	22.56	30	Pass	2.95	
	Edge_1RB_Left	19.33	22.28	30	Pass	2.95	
	Edge_1RB_Right	19.34	22.29	30	Pass	2.95	
	Outer_Full	20.11	23.06	30	Pass	2.95	
	Inner_Full	20.83	23.78	30	Pass	2.95	
DFT-s-OFDM 64QAM	Inner_1RB_Left	20.33	23.28	30	Pass	2.95	
	Inner_1RB_Right	20.33	23.28	30	Pass	2.95	
	Edge_Full_Left	19.17	22.12	30	Pass	2.95	
	Edge_Full_Right	19.38	22.33	30	Pass	2.95	
	Edge_1RB_Left	19.13	22.08	30	Pass	2.95	
	Edge_1RB_Right	19.23	22.18	30	Pass	2.95	
	Outer_Full	19.63	22.58	30	Pass	2.95	
	Inner_Full	19.39	22.34	30	Pass	2.95	
	Inner_1RB_Left	19.24	22.19	30	Pass	2.95	
	Inner_1RB_Right	19.31	22.26	30	Pass	2.95	
	CP-OFDM QPSK	Edge_Full_Left	18.49	21.44	30	Pass	2.95
		Edge_Full_Right	18.53	21.48	30	Pass	2.95
Edge_1RB_Left		18.62	21.57	30	Pass	2.95	
Edge_1RB_Right		18.72	21.67	30	Pass	2.95	
Outer_Full		19.02	21.97	30	Pass	2.95	
Inner_Full		20.33	23.28	30	Pass	2.95	
Inner_1RB_Left		20.36	23.31	30	Pass	2.95	
Inner_1RB_Right		20.56	23.51	30	Pass	2.95	
CP-OFDM 16QAM		Edge_Full_Left	18.72	21.67	30	Pass	2.95
		Edge_Full_Right	18.8	21.75	30	Pass	2.95
		Edge_1RB_Left	18.51	21.46	30	Pass	2.95



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CP-OFDM 64QAM	Edge_1RB_Right	18.56	21.51	30	Pass	2.95
	Outer_Full	19.01	21.96	30	Pass	2.95
	Inner_Full	19.93	22.88	30	Pass	2.95
	Inner_1RB_Left	19.8	22.75	30	Pass	2.95
	Inner_1RB_Right	20.11	23.06	30	Pass	2.95
	Edge_Full_Left	18.04	20.99	30	Pass	2.95
	Edge_Full_Right	18.26	21.21	30	Pass	2.95
	Edge_1RB_Left	18.27	21.22	30	Pass	2.95
	Edge_1RB_Right	18.26	21.21	30	Pass	2.95
	Outer_Full	18.38	21.33	30	Pass	2.95
	Inner_Full	18.45	21.4	30	Pass	2.95
	Inner_1RB_Left	18.29	21.24	30	Pass	2.95
	Inner_1RB_Right	18.26	21.21	30	Pass	2.95



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Frequency Stability

Bandwidth	Modulation	Frequency(MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Result (ppm)	Verdict
10MHz	DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	6.84	0.0036	Pass
					HV	-2.25	-0.0012	Pass
				-30	NV	-9.61	-0.0051	Pass
				-20	NV	5.83	0.0031	Pass
				-10	NV	4.55	0.0024	Pass
				0	NV	2.77	0.0015	Pass
				10	NV	9.67	0.0051	Pass
				20	NV	-3.45	-0.0018	Pass
				30	NV	-9.4	-0.0050	Pass
				40	NV	-4.54	-0.0024	Pass
	50			NV	-7.83	-0.0042	Pass	
	CP-OFDM QPSK			20	LV	-9.32	-0.0050	Pass
					HV	-5.27	-0.0028	Pass
				-30	NV	5.46	0.0029	Pass
				-20	NV	2.04	0.0011	Pass
				-10	NV	2.38	0.0013	Pass
				0	NV	-4.45	-0.0024	Pass
				10	NV	4.59	0.0024	Pass
				20	NV	4.92	0.0026	Pass
				30	NV	-4.26	-0.0023	Pass
40		NV	-4.84	-0.0026	Pass			
50	NV	-2.12	-0.0011	Pass				
15MHz	DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	2.83	0.0015	Pass
					HV	-6.83	-0.0036	Pass
				-30	NV	6	0.0032	Pass
				-20	NV	-4.68	-0.0025	Pass
				-10	NV	3.56	0.0019	Pass
				0	NV	-9.71	-0.0052	Pass
10	NV	2.48	0.0013	Pass				



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				20	NV	-5.13	-0.0027	Pass	
				30	NV	-3.69	-0.0020	Pass	
				40	NV	-4.51	-0.0024	Pass	
				50	NV	-3.24	-0.0017	Pass	
	CP-OFDM QPSK			20	LV	9.24	0.0049	Pass	
					HV	-7.91	-0.0042	Pass	
				-30	NV	5.42	0.0029	Pass	
				-20	NV	-6.38	-0.0034	Pass	
				-10	NV	6.35	0.0034	Pass	
				0	NV	-6.49	-0.0035	Pass	
				10	NV	3.58	0.0019	Pass	
				20	NV	-4.47	-0.0024	Pass	
				30	NV	3.68	0.0020	Pass	
				40	NV	-5.8	-0.0031	Pass	
				50	NV	8.48	0.0045	Pass	
20MHz		DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-3.54	-0.0019	Pass
						HV	-2.87	-0.0015	Pass
					-30	NV	-3.84	-0.0020	Pass
	-20				NV	8.45	0.0045	Pass	
	-10				NV	-3.97	-0.0021	Pass	
	0				NV	7.11	0.0038	Pass	
	10				NV	9.74	0.0052	Pass	
	20				NV	6.02	0.0032	Pass	
	30				NV	-2.12	-0.0011	Pass	
	40	NV			-3.88	-0.0021	Pass		
	50	NV			-5.94	-0.0032	Pass		
	CP-OFDM QPSK	20			LV	-3.19	-0.0017	Pass	
					HV	9.56	0.0051	Pass	
		-30			NV	-5.25	-0.0028	Pass	
		-20			NV	8.77	0.0047	Pass	
		-10			NV	7.46	0.0040	Pass	
		0			NV	7.85	0.0042	Pass	
		10			NV	3.25	0.0017	Pass	
20		NV	-4.98	-0.0026	Pass				



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				30	NV	3.36	0.0018	Pass
				40	NV	4.8	0.0026	Pass
				50	NV	-4.58	-0.0024	Pass



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Field Strength of Spurious Radiation

NR Band n77-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
6920.04	-51.44	-13	-38.44	-57.725	4.21	10.49	Horizontal	Pass
10380.06	-49.08	-13	-36.08	-57.03	5.08	13.03	Horizontal	Pass
13840.08	-44.77	-13	-31.77	-53.735	5.23	14.19	Horizontal	Pass
6920.04	-50.85	-13	-37.85	-57.135	4.21	10.49	Vertical	Pass
10380.06	-48.79	-13	-35.79	-56.74	5.08	13.03	Vertical	Pass
13840.08	-45.61	-13	-32.61	-54.575	5.23	14.19	Vertical	Pass

NR Band n77-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7000.02	-51.24	-13	-38.24	-58.18	4.19	11.13	Horizontal	Pass
10500.03	-48.99	-13	-35.99	-57.035	5.08	13.12	Horizontal	Pass
14000.04	-44	-13	-31	-53.66	4.82	14.48	Horizontal	Pass
7000.02	-51	-13	-38	-57.94	4.19	11.13	Vertical	Pass
10500.03	-47.22	-13	-34.22	-55.265	5.08	13.12	Vertical	Pass
14000.04	-43.96	-13	-30.96	-53.62	4.82	14.48	Vertical	Pass

NR Band n77-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7080	-50.29	-13	-37.29	-57.23	4.19	11.13	Horizontal	Pass
10620	-47.22	-13	-34.22	-55.265	5.08	13.12	Horizontal	Pass
14160	-45.24	-13	-32.24	-54.9	4.82	14.48	Horizontal	Pass
7080	-50.2	-13	-37.2	-57.14	4.19	11.13	Vertical	Pass
10620	-47.92	-13	-34.92	-55.965	5.08	13.12	Vertical	Pass
14160	-45.14	-13	-32.14	-54.8	4.82	14.48	Vertical	Pass

---End of Attachment---



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