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Appendix B.34

NR Band n70



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99% & 26dB Bandwidth

Test Result

5G NR N70 SCS=15kHz 5MHz						
Modulation	Mid CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	4.521	5.212	/	Pass
CP-OFDM QPSK		Outer_Full	4.513	5.261	/	Pass

5G NR N70 SCS=15kHz 10MHz						
Modulation	Mid CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	8.962	9.988	/	Pass
CP-OFDM QPSK		Outer_Full	8.994	9.843	/	Pass

5G NR N70 SCS=15kHz 15MHz						
Modulation	Mid CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	13.486	14.69	/	Pass
CP-OFDM QPSK		Outer_Full	13.505	14.70	/	Pass



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Test Graph



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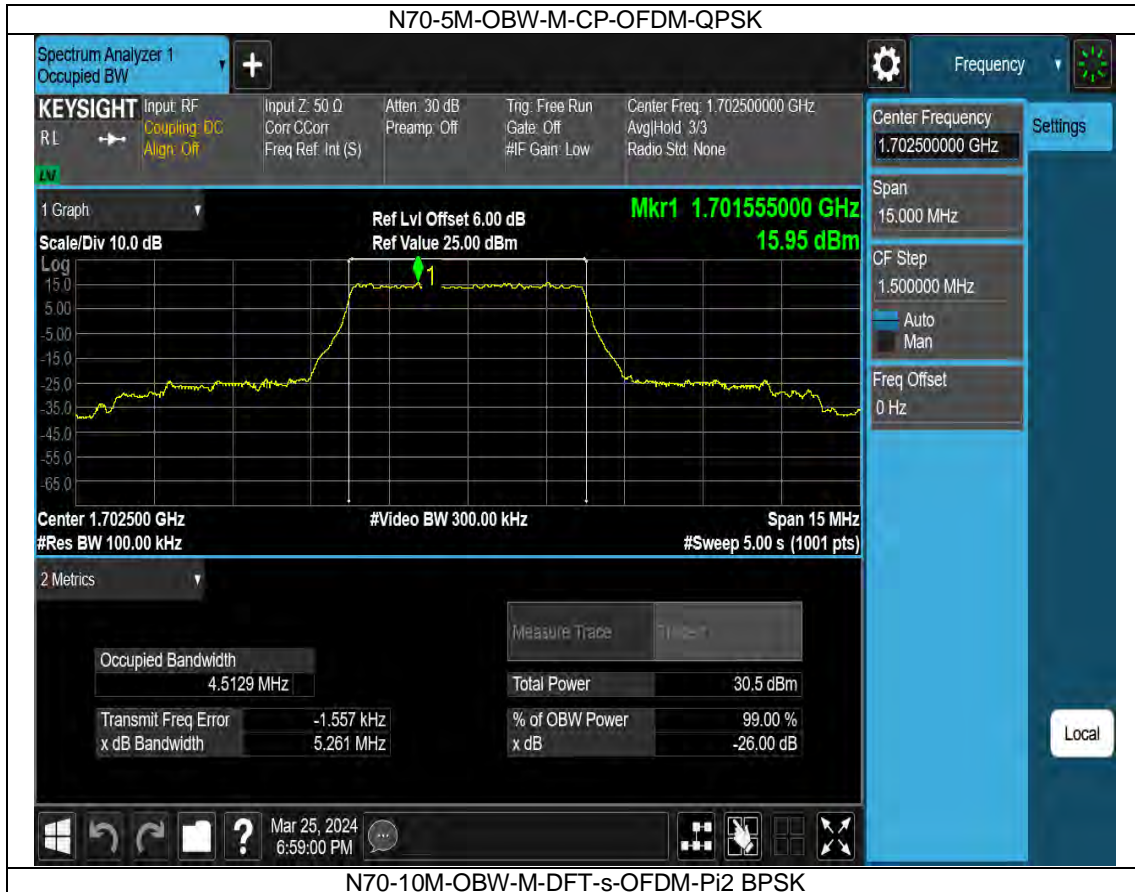


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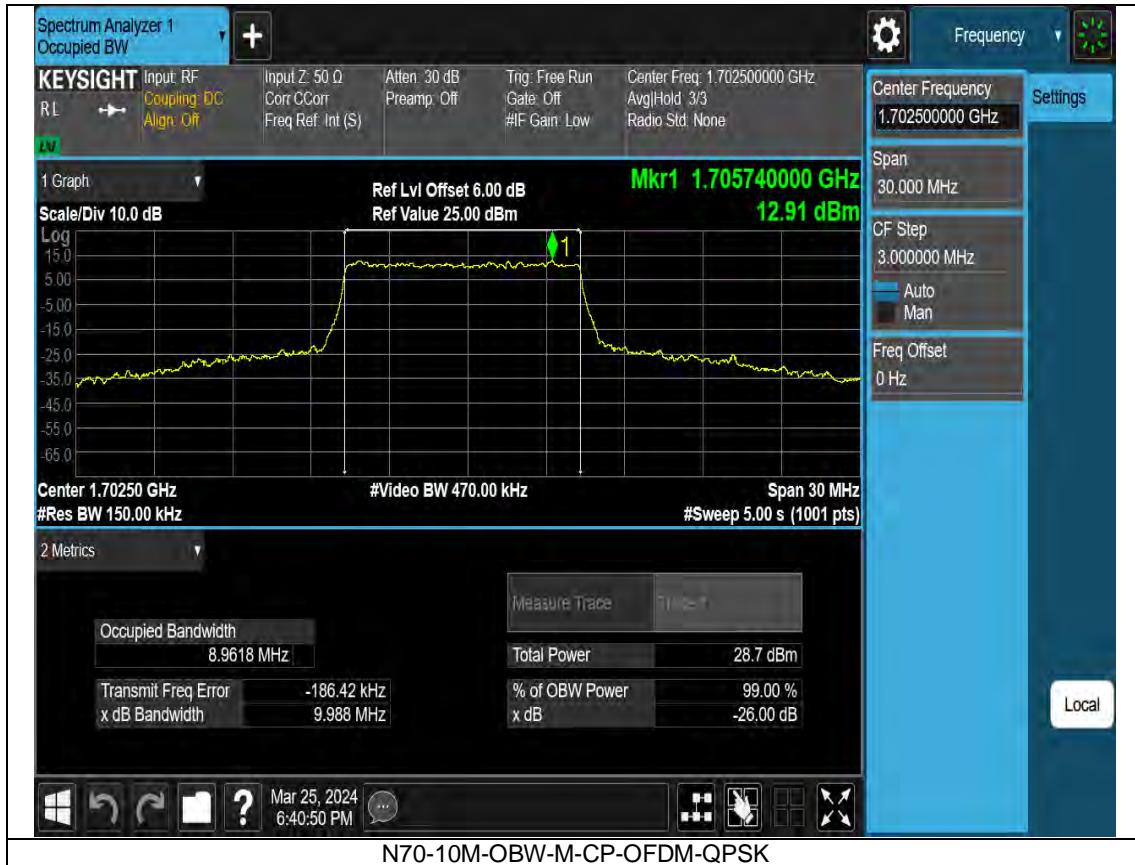


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Peak-Average Ratio

Test Result

5G NR N70 SCS=15kHz 5MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	5.19	<=13	Pass
CP-OFDM QPSK		Outer_Full	5.13	<=13	Pass

5G NR N70 SCS=15kHz 10MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	7.11	<=13	Pass
CP-OFDM QPSK		Outer_Full	5.2	<=13	Pass

5G NR N70 SCS=15kHz 15MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	5.42	<=13	Pass
CP-OFDM QPSK		Outer_Full	5.25	<=13	Pass



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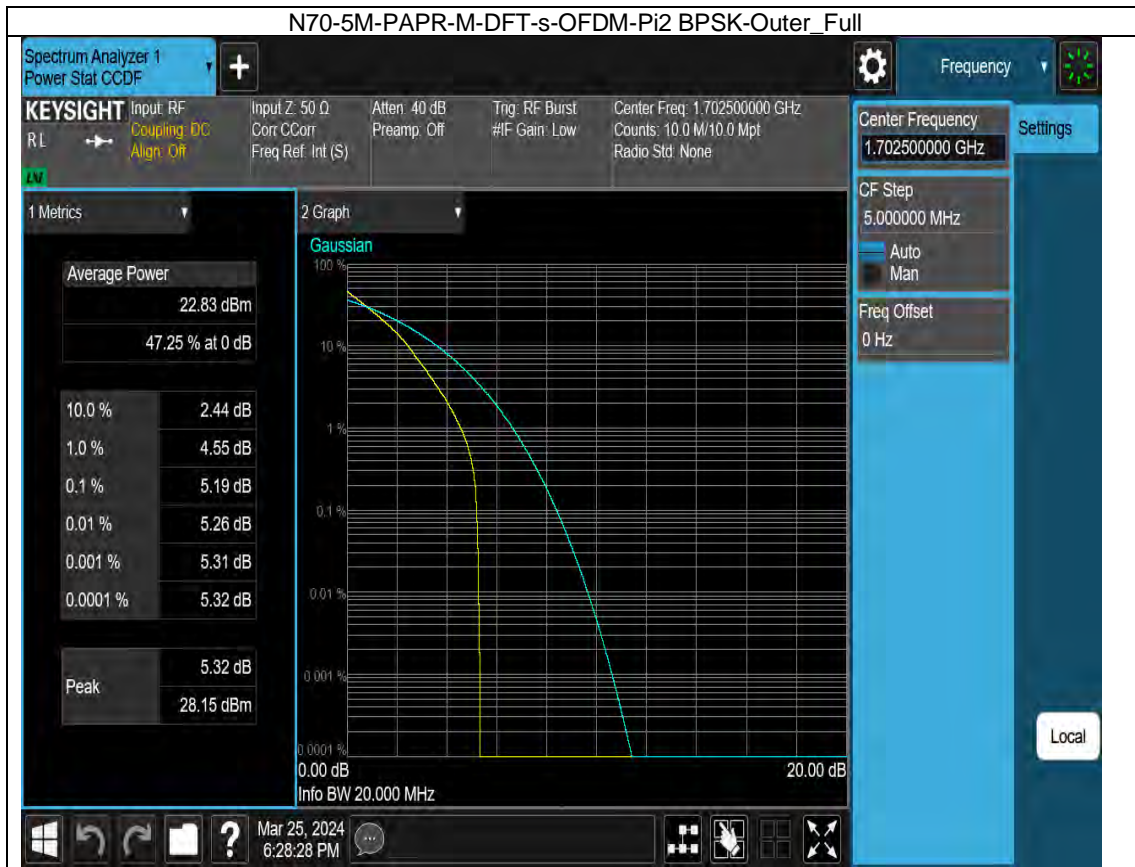
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Test Graph



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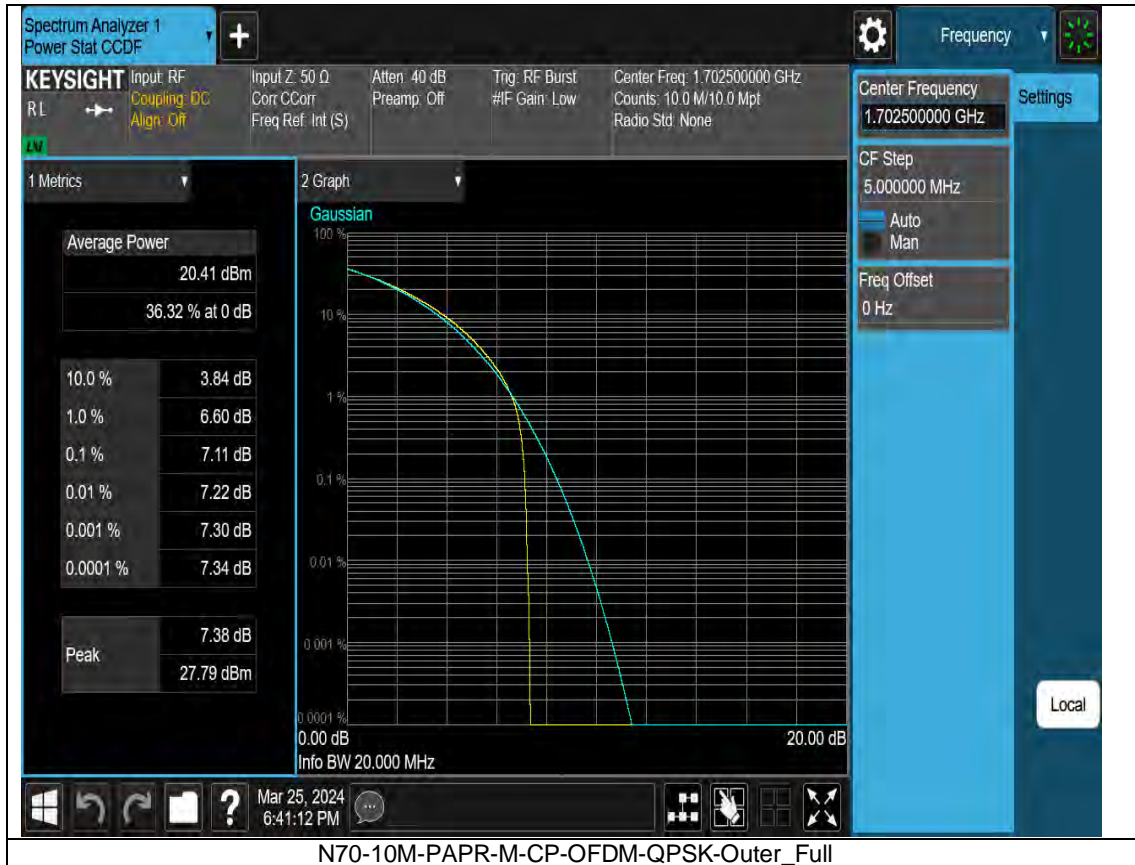
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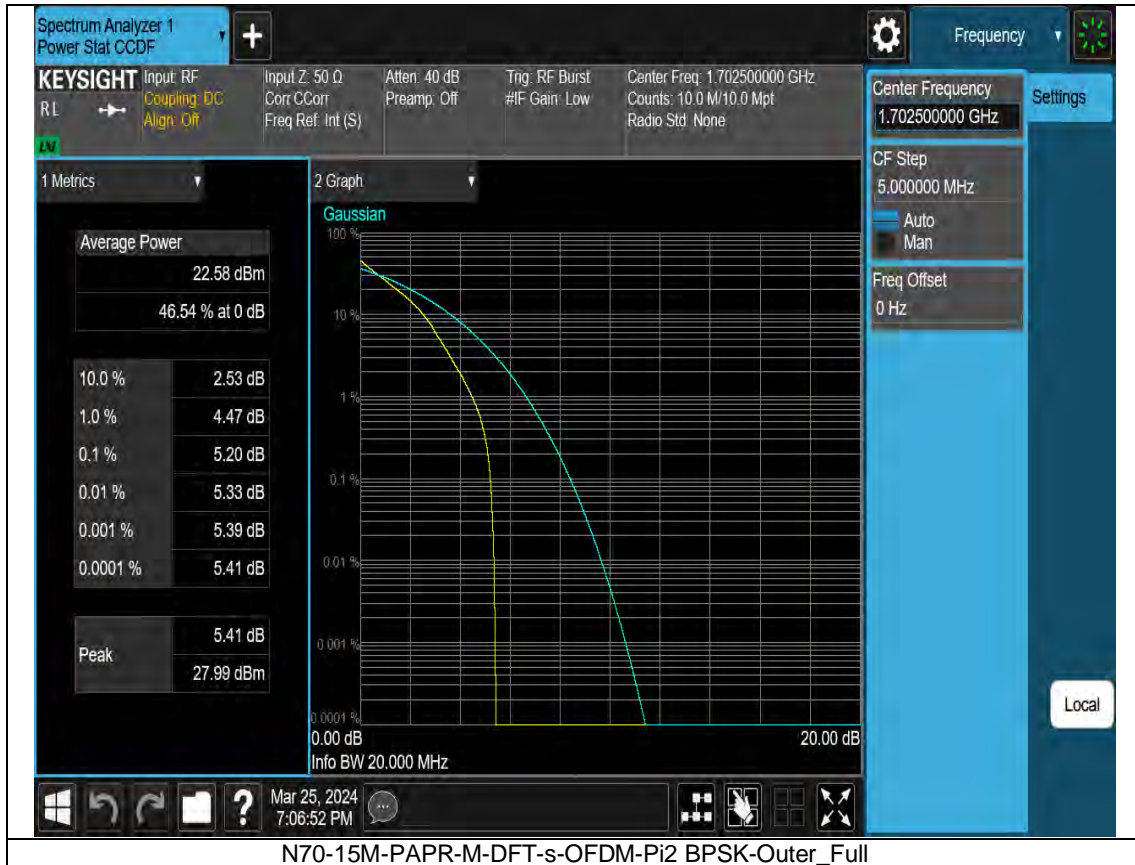


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N70-15M-PAPR-M-DFT-s-OFDM-Pi2 BPSK-Outer_Full



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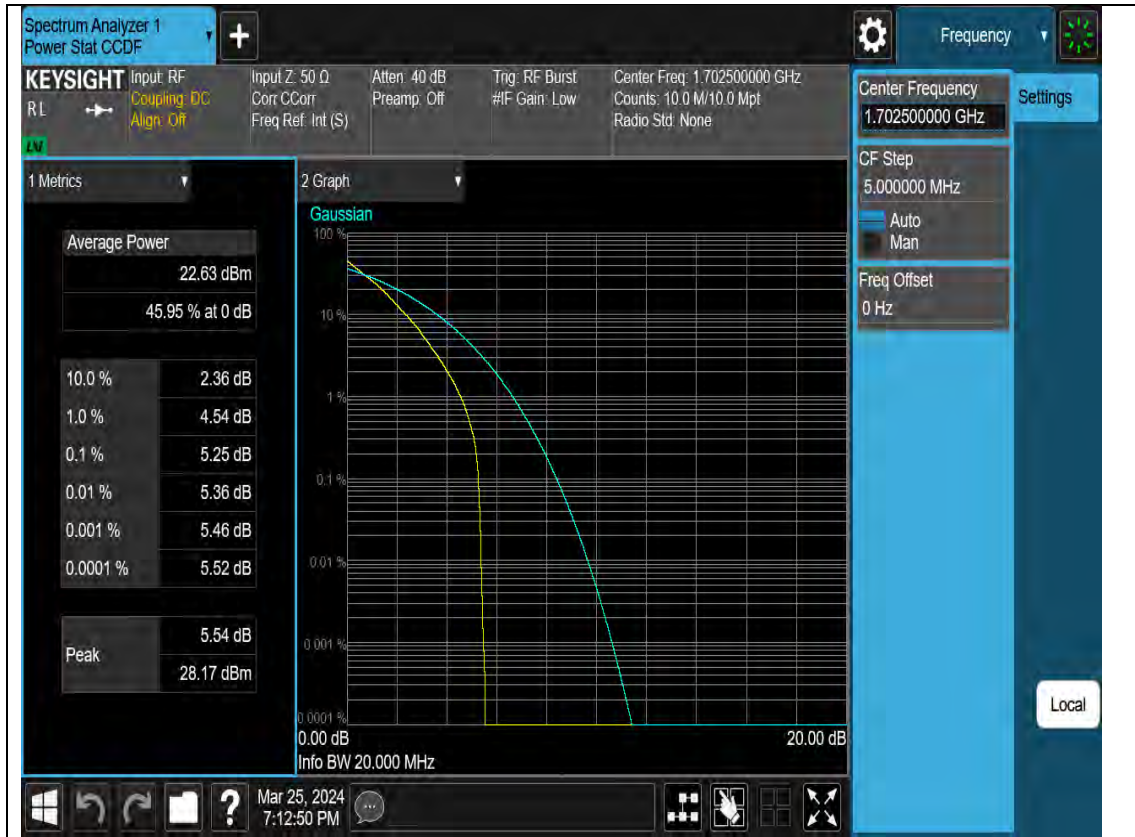


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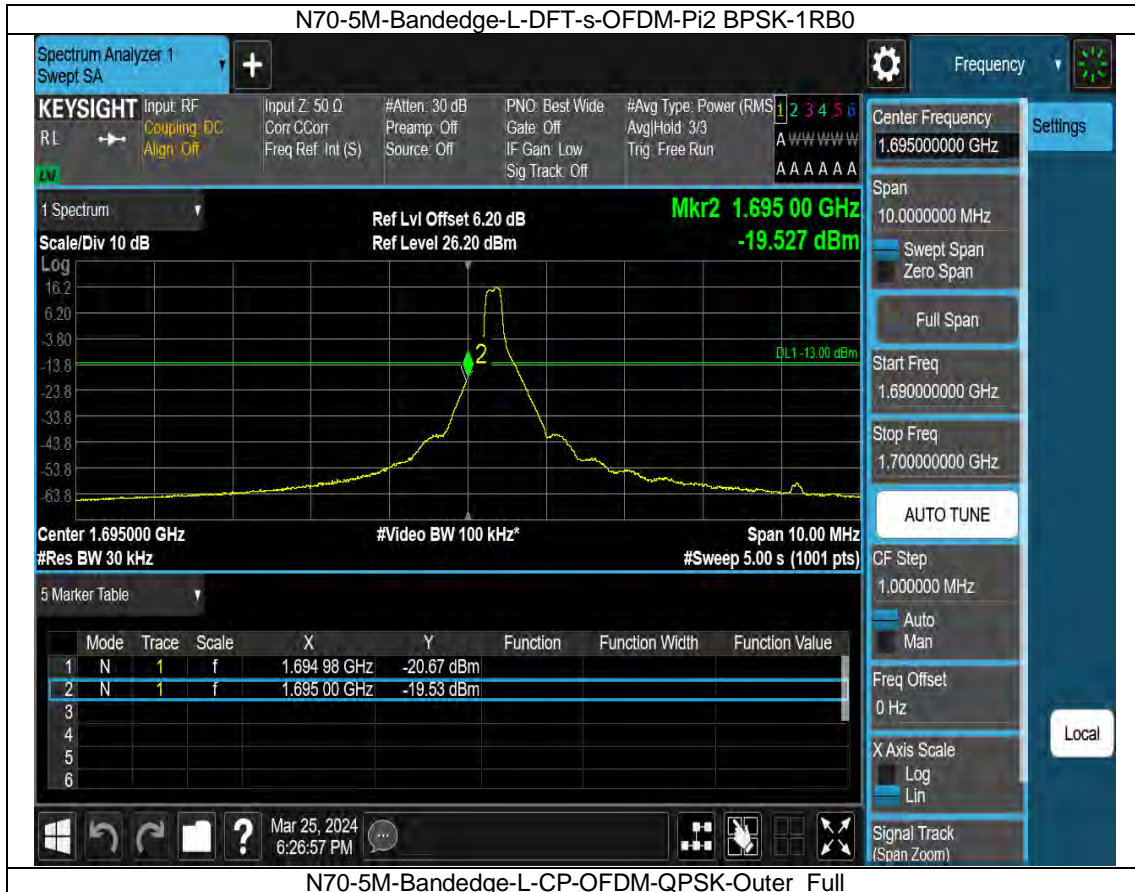


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Conducted spurious emissions

test graph



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N70-5M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-20GHz



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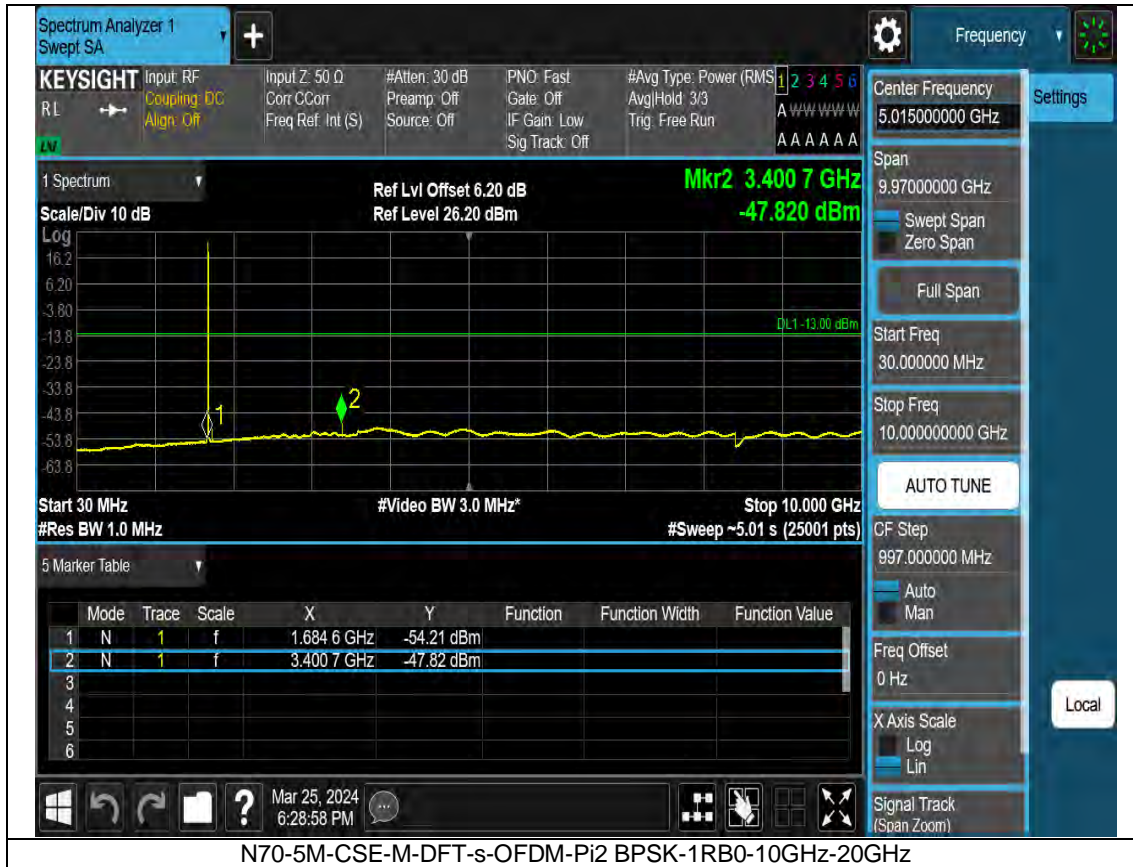


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N70-10M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-20GHz



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N70-10M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-20GHz



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N70-10M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



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N70-10M-CSE-H-CP-OFDM-QPSK-1RB0-30MHz-10GHz



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Effective (Isotropic) Radiated Power Output Data

Bandwidth	Modulation	Frequency (MHz)	RB Allocation	Conducted Power (dBm)	EIRP (dBm)	Limit	Verdict	Gain	
5MHz	DFT-s-OFDM PI/2 BPSK	1697.5MHz	Edge_Full_Left	23	25.86	30	Pass	2.86	
			Edge_Full_Right	23.01	25.87	30	Pass	2.86	
			Edge_1RB_Left	23.22	26.08	30	Pass	2.86	
			Edge_1RB_Right	23.21	26.07	30	Pass	2.86	
			Outer_Full	23.11	25.97	30	Pass	2.86	
			Inner_Full	23.61	26.47	30	Pass	2.86	
			Inner_1RB_Left	23.71	26.57	30	Pass	2.86	
			Inner_1RB_Right	23.71	26.57	30	Pass	2.86	
			DFT-s-OFDM QPSK	Edge_Full_Left	22.55	25.41	30	Pass	2.86
				Edge_Full_Right	22.6	25.46	30	Pass	2.86
				Edge_1RB_Left	22.67	25.53	30	Pass	2.86
				Edge_1RB_Right	22.71	25.57	30	Pass	2.86
	Outer_Full			22.57	25.43	30	Pass	2.86	
	Inner_Full			23.69	26.55	30	Pass	2.86	
	DFT-s-OFDM 16QAM		Inner_1RB_Left	23.67	26.53	30	Pass	2.86	
			Inner_1RB_Right	23.68	26.54	30	Pass	2.86	
			Edge_Full_Left	21.66	24.52	30	Pass	2.86	
			Edge_Full_Right	21.5	24.36	30	Pass	2.86	
			Edge_1RB_Left	21.32	24.18	30	Pass	2.86	
			Edge_1RB_Right	21.37	24.23	30	Pass	2.86	
			Outer_Full	21.67	24.53	30	Pass	2.86	
			Inner_Full	22.76	25.62	30	Pass	2.86	
			Inner_1RB_Left	22.45	25.31	30	Pass	2.86	
			Inner_1RB_Right	22.34	25.2	30	Pass	2.86	
			DFT-s-OFDM 64QAM	Edge_Full_Left	21.21	24.07	30	Pass	2.86
				Edge_Full_Right	21.18	24.04	30	Pass	2.86
	Edge_1RB_Left			21.28	24.14	30	Pass	2.86	
	Edge_1RB_Right			21.25	24.11	30	Pass	2.86	
	Outer_Full			21.3	24.16	30	Pass	2.86	



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CP-OFDM QPSK	Inner_Full	21.12	23.98	30	Pass	2.86	
	Inner_1RB_Left	21.25	24.11	30	Pass	2.86	
	Inner_1RB_Right	21.33	24.19	30	Pass	2.86	
	Edge_Full_Left	20.86	23.72	30	Pass	2.86	
	Edge_Full_Right	20.85	23.71	30	Pass	2.86	
	Edge_1RB_Left	20.03	22.89	30	Pass	2.86	
	Edge_1RB_Right	20.03	22.89	30	Pass	2.86	
	Outer_Full	20.71	23.57	30	Pass	2.86	
	Inner_Full	22.31	25.17	30	Pass	2.86	
	Inner_1RB_Left	21.61	24.47	30	Pass	2.86	
	Inner_1RB_Right	21.71	24.57	30	Pass	2.86	
	CP-OFDM 16QAM	Edge_Full_Left	20.96	23.82	30	Pass	2.86
Edge_Full_Right		20.77	23.63	30	Pass	2.86	
Edge_1RB_Left		19.89	22.75	30	Pass	2.86	
Edge_1RB_Right		19.96	22.82	30	Pass	2.86	
Outer_Full		20.53	23.39	30	Pass	2.86	
Inner_Full		21.97	24.83	30	Pass	2.86	
Inner_1RB_Left		21.01	23.87	30	Pass	2.86	
Inner_1RB_Right		20.61	23.47	30	Pass	2.86	
Edge_Full_Left		19.84	22.7	30	Pass	2.86	
Edge_Full_Right		19.99	22.85	30	Pass	2.86	
Edge_1RB_Left		19.96	22.82	30	Pass	2.86	
Edge_1RB_Right		20.17	23.03	30	Pass	2.86	
CP-OFDM 64QAM	Outer_Full	20.22	23.08	30	Pass	2.86	
	Inner_Full	20.18	23.04	30	Pass	2.86	
	Inner_1RB_Left	20.26	23.12	30	Pass	2.86	
	Inner_1RB_Right	20.02	22.88	30	Pass	2.86	
	Edge_Full_Left	23.1	25.96	30	Pass	2.86	
	Edge_Full_Right	23.08	25.94	30	Pass	2.86	
	Edge_1RB_Left	23.31	26.17	30	Pass	2.86	
	Edge_1RB_Right	23.3	26.16	30	Pass	2.86	
	Outer_Full	23.22	26.08	30	Pass	2.86	
	Inner_Full	23.75	26.61	30	Pass	2.86	
	DFT-s-OFDM PI/2 BPSK	1702.5MHz					
		Edge_Full_Left	23.1	25.96	30	Pass	2.86
Edge_Full_Right		23.08	25.94	30	Pass	2.86	
Edge_1RB_Left		23.31	26.17	30	Pass	2.86	
Edge_1RB_Right		23.3	26.16	30	Pass	2.86	
Outer_Full		23.22	26.08	30	Pass	2.86	



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DFT-s-OFDM QPSK	Inner_1RB_Left	23.7	26.56	30	Pass	2.86
	Inner_1RB_Right	23.72	26.58	30	Pass	2.86
	Edge_Full_Left	22.58	25.44	30	Pass	2.86
	Edge_Full_Right	22.58	25.44	30	Pass	2.86
	Edge_1RB_Left	22.62	25.48	30	Pass	2.86
	Edge_1RB_Right	22.65	25.51	30	Pass	2.86
	Outer_Full	22.7	25.56	30	Pass	2.86
	Inner_Full	23.75	26.61	30	Pass	2.86
DFT-s-OFDM 16QAM	Inner_1RB_Left	23.51	26.37	30	Pass	2.86
	Inner_1RB_Right	23.51	26.37	30	Pass	2.86
	Edge_Full_Left	21.63	24.49	30	Pass	2.86
	Edge_Full_Right	21.52	24.38	30	Pass	2.86
	Edge_1RB_Left	21.72	24.58	30	Pass	2.86
	Edge_1RB_Right	21.59	24.45	30	Pass	2.86
	Outer_Full	21.8	24.66	30	Pass	2.86
	Inner_Full	22.86	25.72	30	Pass	2.86
DFT-s-OFDM 64QAM	Inner_1RB_Left	22.82	25.68	30	Pass	2.86
	Inner_1RB_Right	22.82	25.68	30	Pass	2.86
	Edge_Full_Left	21.32	24.18	30	Pass	2.86
	Edge_Full_Right	21.32	24.18	30	Pass	2.86
	Edge_1RB_Left	21.16	24.02	30	Pass	2.86
	Edge_1RB_Right	21.21	24.07	30	Pass	2.86
	Outer_Full	21.24	24.1	30	Pass	2.86
	Inner_Full	21.16	24.02	30	Pass	2.86
CP-OFDM QPSK	Inner_1RB_Left	21.25	24.11	30	Pass	2.86
	Inner_1RB_Right	21.13	23.99	30	Pass	2.86
	Edge_Full_Left	20.95	23.81	30	Pass	2.86
	Edge_Full_Right	20.67	23.53	30	Pass	2.86
	Edge_1RB_Left	20.16	23.02	30	Pass	2.86
	Edge_1RB_Right	20.06	22.92	30	Pass	2.86
	Outer_Full	20.62	23.48	30	Pass	2.86
	Inner_Full	22.41	25.27	30	Pass	2.86
	Inner_1RB_Left	21.7	24.56	30	Pass	2.86



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CP-OFDM 16QAM		Inner_1RB_Right	21.8	24.66	30	Pass	2.86
		Edge_Full_Left	20.78	23.64	30	Pass	2.86
		Edge_Full_Right	20.83	23.69	30	Pass	2.86
		Edge_1RB_Left	19.8	22.66	30	Pass	2.86
		Edge_1RB_Right	19.9	22.76	30	Pass	2.86
		Outer_Full	20.52	23.38	30	Pass	2.86
		Inner_Full	21.91	24.77	30	Pass	2.86
		Inner_1RB_Left	21.1	23.96	30	Pass	2.86
CP-OFDM 64QAM		Inner_1RB_Right	21.02	23.88	30	Pass	2.86
		Edge_Full_Left	19.94	22.8	30	Pass	2.86
		Edge_Full_Right	19.83	22.69	30	Pass	2.86
		Edge_1RB_Left	19.78	22.64	30	Pass	2.86
		Edge_1RB_Right	20.1	22.96	30	Pass	2.86
		Outer_Full	20.16	23.02	30	Pass	2.86
		Inner_Full	20.06	22.92	30	Pass	2.86
		Inner_1RB_Left	20.17	23.03	30	Pass	2.86
DFT-s-OFDM PI/2 BPSK	1707.5MHz	Inner_1RB_Right	19.96	22.82	30	Pass	2.86
		Edge_Full_Left	23.03	25.89	30	Pass	2.86
		Edge_Full_Right	23.1	25.96	30	Pass	2.86
		Edge_1RB_Left	23.2	26.06	30	Pass	2.86
		Edge_1RB_Right	23.2	26.06	30	Pass	2.86
		Outer_Full	23.23	26.09	30	Pass	2.86
		Inner_Full	23.77	26.63	30	Pass	2.86
		Inner_1RB_Left	23.73	26.59	30	Pass	2.86
DFT-s-OFDM QPSK	1707.5MHz	Inner_1RB_Right	23.75	26.61	30	Pass	2.86
		Edge_Full_Left	22.64	25.5	30	Pass	2.86
		Edge_Full_Right	22.67	25.53	30	Pass	2.86
		Edge_1RB_Left	22.75	25.61	30	Pass	2.86
		Edge_1RB_Right	22.77	25.63	30	Pass	2.86
		Outer_Full	22.62	25.48	30	Pass	2.86
		Inner_Full	23.77	26.63	30	Pass	2.86
		Inner_1RB_Left	23.8	26.66	30	Pass	2.86
		Inner_1RB_Right	23.62	26.48	30	Pass	2.86



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DFT-s-OFDM 16QAM	Edge_Full_Left	21.52	24.38	30	Pass	2.86
	Edge_Full_Right	21.73	24.59	30	Pass	2.86
	Edge_1RB_Left	21.28	24.14	30	Pass	2.86
	Edge_1RB_Right	21.32	24.18	30	Pass	2.86
	Outer_Full	21.78	24.64	30	Pass	2.86
	Inner_Full	22.81	25.67	30	Pass	2.86
	Inner_1RB_Left	22.35	25.21	30	Pass	2.86
	Inner_1RB_Right	22.38	25.24	30	Pass	2.86
DFT-s-OFDM 64QAM	Edge_Full_Left	21.21	24.07	30	Pass	2.86
	Edge_Full_Right	21.22	24.08	30	Pass	2.86
	Edge_1RB_Left	21.26	24.12	30	Pass	2.86
	Edge_1RB_Right	21.3	24.16	30	Pass	2.86
	Outer_Full	21.34	24.2	30	Pass	2.86
	Inner_Full	21.17	24.03	30	Pass	2.86
	Inner_1RB_Left	21.37	24.23	30	Pass	2.86
	Inner_1RB_Right	21.29	24.15	30	Pass	2.86
CP-OFDM QPSK	Edge_Full_Left	21.08	23.94	30	Pass	2.86
	Edge_Full_Right	20.74	23.6	30	Pass	2.86
	Edge_1RB_Left	20.1	22.96	30	Pass	2.86
	Edge_1RB_Right	20	22.86	30	Pass	2.86
	Outer_Full	20.74	23.6	30	Pass	2.86
	Inner_Full	22.36	25.22	30	Pass	2.86
	Inner_1RB_Left	21.88	24.74	30	Pass	2.86
	Inner_1RB_Right	21.84	24.7	30	Pass	2.86
CP-OFDM 16QAM	Edge_Full_Left	20.76	23.62	30	Pass	2.86
	Edge_Full_Right	20.77	23.63	30	Pass	2.86
	Edge_1RB_Left	20.15	23.01	30	Pass	2.86
	Edge_1RB_Right	20.16	23.02	30	Pass	2.86
	Outer_Full	20.56	23.42	30	Pass	2.86
	Inner_Full	21.9	24.76	30	Pass	2.86
	Inner_1RB_Left	21	23.86	30	Pass	2.86
	Inner_1RB_Right	20.82	23.68	30	Pass	2.86
CP-OFDM 64QAM	Edge_Full_Left	19.67	22.53	30	Pass	2.86



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			Edge_Full_Right	20.04	22.9	30	Pass	2.86
			Edge_1RB_Left	19.96	22.82	30	Pass	2.86
			Edge_1RB_Right	20.31	23.17	30	Pass	2.86
			Outer_Full	20.25	23.11	30	Pass	2.86
			Inner_Full	20.09	22.95	30	Pass	2.86
			Inner_1RB_Left	20.27	23.13	30	Pass	2.86
			Inner_1RB_Right	20.07	22.93	30	Pass	2.86
10MHz	DFT-s-OFDM PI/2 BPSK	1700MHz	Edge_Full_Left	23.25	26.11	30	Pass	2.86
			Edge_Full_Right	23.2	26.06	30	Pass	2.86
			Edge_1RB_Left	23.04	25.9	30	Pass	2.86
			Edge_1RB_Right	23.09	25.95	30	Pass	2.86
			Outer_Full	23.36	26.22	30	Pass	2.86
			Inner_Full	23.72	26.58	30	Pass	2.86
	Inner_1RB_Left		23.55	26.41	30	Pass	2.86	
	Inner_1RB_Right		23.42	26.28	30	Pass	2.86	
	Edge_Full_Left		22.68	25.54	30	Pass	2.86	
	Edge_Full_Right		22.56	25.42	30	Pass	2.86	
	Edge_1RB_Left		22.41	25.27	30	Pass	2.86	
	Edge_1RB_Right		22.31	25.17	30	Pass	2.86	
	Outer_Full		22.9	25.76	30	Pass	2.86	
	Inner_Full		23.75	26.61	30	Pass	2.86	
	Inner_1RB_Left		23.33	26.19	30	Pass	2.86	
	Inner_1RB_Right		23.28	26.14	30	Pass	2.86	
	Edge_Full_Left		21.37	24.23	30	Pass	2.86	
	Edge_Full_Right		21.27	24.13	30	Pass	2.86	
	Edge_1RB_Left		21.41	24.27	30	Pass	2.86	
	Edge_1RB_Right		21.33	24.19	30	Pass	2.86	
	Outer_Full		21.78	24.64	30	Pass	2.86	
	Inner_Full		22.78	25.64	30	Pass	2.86	
	Inner_1RB_Left		22.38	25.24	30	Pass	2.86	
	Inner_1RB_Right		22.32	25.18	30	Pass	2.86	
DFT-s-OFDM 16QAM	Edge_Full_Left	21.3	24.16	30	Pass	2.86		
DFT-s-OFDM 64QAM	Edge_Full_Right	21.21	24.07	30	Pass	2.86		



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CP-OFDM QPSK	Edge_1RB_Left	21.05	23.91	30	Pass	2.86	
	Edge_1RB_Right	20.96	23.82	30	Pass	2.86	
	Outer_Full	21.28	24.14	30	Pass	2.86	
	Inner_Full	21.14	24	30	Pass	2.86	
	Inner_1RB_Left	20.94	23.8	30	Pass	2.86	
	Inner_1RB_Right	20.93	23.79	30	Pass	2.86	
	Edge_Full_Left	19.57	22.43	30	Pass	2.86	
	Edge_Full_Right	19.33	22.19	30	Pass	2.86	
	Edge_1RB_Left	20.77	23.63	30	Pass	2.86	
	Edge_1RB_Right	20.87	23.73	30	Pass	2.86	
	Outer_Full	20.8	23.66	30	Pass	2.86	
	Inner_Full	22.04	24.9	30	Pass	2.86	
CP-OFDM 16QAM	Inner_1RB_Left	22.66	25.52	30	Pass	2.86	
	Inner_1RB_Right	22.38	25.24	30	Pass	2.86	
	Edge_Full_Left	20.38	23.24	30	Pass	2.86	
	Edge_Full_Right	20.53	23.39	30	Pass	2.86	
	Edge_1RB_Left	21.43	24.29	30	Pass	2.86	
	Edge_1RB_Right	21.19	24.05	30	Pass	2.86	
	Outer_Full	20.78	23.64	30	Pass	2.86	
	Inner_Full	21.63	24.49	30	Pass	2.86	
	Inner_1RB_Left	22.26	25.12	30	Pass	2.86	
	Inner_1RB_Right	21.98	24.84	30	Pass	2.86	
	CP-OFDM 64QAM	Edge_Full_Left	19.58	22.44	30	Pass	2.86
		Edge_Full_Right	19.47	22.33	30	Pass	2.86
Edge_1RB_Left		19.96	22.82	30	Pass	2.86	
Edge_1RB_Right		19.66	22.52	30	Pass	2.86	
Outer_Full		20.34	23.2	30	Pass	2.86	
Inner_Full		20.13	22.99	30	Pass	2.86	
Inner_1RB_Left		20.03	22.89	30	Pass	2.86	
Inner_1RB_Right		19.94	22.8	30	Pass	2.86	
DFT-s-OFDM PI/2 BPSK 1702.5MHz		Edge_Full_Left	23.2	26.06	30	Pass	2.86
		Edge_Full_Right	23.18	26.04	30	Pass	2.86
		Edge_1RB_Left	23.08	25.94	30	Pass	2.86



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DFT-s-OFDM QPSK	Edge_1RB_Right	23.05	25.91	30	Pass	2.86	
	Outer_Full	23.28	26.14	30	Pass	2.86	
	Inner_Full	23.72	26.58	30	Pass	2.86	
	Inner_1RB_Left	23.61	26.47	30	Pass	2.86	
	Inner_1RB_Right	23.39	26.25	30	Pass	2.86	
	Edge_Full_Left	22.63	25.49	30	Pass	2.86	
	Edge_Full_Right	22.55	25.41	30	Pass	2.86	
	Edge_1RB_Left	22.34	25.2	30	Pass	2.86	
	Edge_1RB_Right	22.26	25.12	30	Pass	2.86	
	Outer_Full	22.81	25.67	30	Pass	2.86	
	Inner_Full	23.69	26.55	30	Pass	2.86	
	Inner_1RB_Left	23.34	26.2	30	Pass	2.86	
DFT-s-OFDM 16QAM	Inner_1RB_Right	23.23	26.09	30	Pass	2.86	
	Edge_Full_Left	21.39	24.25	30	Pass	2.86	
	Edge_Full_Right	21.19	24.05	30	Pass	2.86	
	Edge_1RB_Left	21.33	24.19	30	Pass	2.86	
	Edge_1RB_Right	21.26	24.12	30	Pass	2.86	
	Outer_Full	21.67	24.53	30	Pass	2.86	
	Inner_Full	22.71	25.57	30	Pass	2.86	
	Inner_1RB_Left	22.3	25.16	30	Pass	2.86	
	Inner_1RB_Right	22.19	25.05	30	Pass	2.86	
	Edge_Full_Left	21.36	24.22	30	Pass	2.86	
	Edge_Full_Right	21.15	24.01	30	Pass	2.86	
	DFT-s-OFDM 64QAM	Edge_1RB_Left	20.98	23.84	30	Pass	2.86
Edge_1RB_Right		20.87	23.73	30	Pass	2.86	
Outer_Full		21.29	24.15	30	Pass	2.86	
Inner_Full		21.15	24.01	30	Pass	2.86	
Inner_1RB_Left		20.95	23.81	30	Pass	2.86	
Inner_1RB_Right		20.86	23.72	30	Pass	2.86	
Edge_Full_Left		19.48	22.34	30	Pass	2.86	
Edge_Full_Right		19.42	22.28	30	Pass	2.86	
Edge_1RB_Left		20.76	23.62	30	Pass	2.86	
CP-OFDM QPSK		Edge_1RB_Right	20.67	23.53	30	Pass	2.86



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CP-OFDM 16QAM		Outer_Full	20.77	23.63	30	Pass	2.86		
		Inner_Full	21.93	24.79	30	Pass	2.86		
		Inner_1RB_Left	22.31	25.17	30	Pass	2.86		
		Inner_1RB_Right	22	24.86	30	Pass	2.86		
		Edge_Full_Left	20.57	23.43	30	Pass	2.86		
		Edge_Full_Right	20.62	23.48	30	Pass	2.86		
		Edge_1RB_Left	20.85	23.71	30	Pass	2.86		
		Edge_1RB_Right	20.91	23.77	30	Pass	2.86		
		Outer_Full	20.69	23.55	30	Pass	2.86		
		Inner_Full	21.61	24.47	30	Pass	2.86		
		Inner_1RB_Left	21.99	24.85	30	Pass	2.86		
		Inner_1RB_Right	22.04	24.9	30	Pass	2.86		
CP-OFDM 64QAM		Edge_Full_Left	19.72	22.58	30	Pass	2.86		
		Edge_Full_Right	19.6	22.46	30	Pass	2.86		
		Edge_1RB_Left	20.05	22.91	30	Pass	2.86		
		Edge_1RB_Right	20.18	23.04	30	Pass	2.86		
		Outer_Full	20.36	23.22	30	Pass	2.86		
		Inner_Full	20.1	22.96	30	Pass	2.86		
		Inner_1RB_Left	19.91	22.77	30	Pass	2.86		
		Inner_1RB_Right	20.19	23.05	30	Pass	2.86		
		DFT-s-OFDM PI/2 BPSK	1705MHz	Edge_Full_Left	23.11	25.97	30	Pass	2.86
				Edge_Full_Right	23.18	26.04	30	Pass	2.86
				Edge_1RB_Left	22.99	25.85	30	Pass	2.86
				Edge_1RB_Right	22.97	25.83	30	Pass	2.86
Outer_Full	23.37			26.23	30	Pass	2.86		
Inner_Full	23.73			26.59	30	Pass	2.86		
Inner_1RB_Left	23.53			26.39	30	Pass	2.86		
Inner_1RB_Right	23.52			26.38	30	Pass	2.86		
DFT-s-OFDM QPSK		Edge_Full_Left	22.67	25.53	30	Pass	2.86		
		Edge_Full_Right	22.67	25.53	30	Pass	2.86		
		Edge_1RB_Left	22.27	25.13	30	Pass	2.86		
		Edge_1RB_Right	22.28	25.14	30	Pass	2.86		
		Outer_Full	22.85	25.71	30	Pass	2.86		



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DFT-s-OFDM 16QAM	Inner_Full	23.73	26.59	30	Pass	2.86	
	Inner_1RB_Left	23.3	26.16	30	Pass	2.86	
	Inner_1RB_Right	23.28	26.14	30	Pass	2.86	
	Edge_Full_Left	21.56	24.42	30	Pass	2.86	
	Edge_Full_Right	21.33	24.19	30	Pass	2.86	
	Edge_1RB_Left	21.4	24.26	30	Pass	2.86	
	Edge_1RB_Right	21.39	24.25	30	Pass	2.86	
	Outer_Full	21.81	24.67	30	Pass	2.86	
	Inner_Full	22.84	25.7	30	Pass	2.86	
	Inner_1RB_Left	22.37	25.23	30	Pass	2.86	
	Inner_1RB_Right	22.25	25.11	30	Pass	2.86	
	DFT-s-OFDM 64QAM	Edge_Full_Left	21.29	24.15	30	Pass	2.86
Edge_Full_Right		21.26	24.12	30	Pass	2.86	
Edge_1RB_Left		21.03	23.89	30	Pass	2.86	
Edge_1RB_Right		20.8	23.66	30	Pass	2.86	
Outer_Full		21.41	24.27	30	Pass	2.86	
Inner_Full		21.19	24.05	30	Pass	2.86	
Inner_1RB_Left		21.02	23.88	30	Pass	2.86	
Inner_1RB_Right		20.89	23.75	30	Pass	2.86	
Edge_Full_Left		19.56	22.42	30	Pass	2.86	
Edge_Full_Right		19.46	22.32	30	Pass	2.86	
Edge_1RB_Left		20.92	23.78	30	Pass	2.86	
Edge_1RB_Right		20.93	23.79	30	Pass	2.86	
CP-OFDM QPSK	Outer_Full	20.91	23.77	30	Pass	2.86	
	Inner_Full	22.15	25.01	30	Pass	2.86	
	Inner_1RB_Left	22.29	25.15	30	Pass	2.86	
	Inner_1RB_Right	22.4	25.26	30	Pass	2.86	
	Edge_Full_Left	20.52	23.38	30	Pass	2.86	
	Edge_Full_Right	20.35	23.21	30	Pass	2.86	
	Edge_1RB_Left	20.91	23.77	30	Pass	2.86	
	Edge_1RB_Right	20.88	23.74	30	Pass	2.86	
	Outer_Full	20.83	23.69	30	Pass	2.86	
	Inner_Full	21.65	24.51	30	Pass	2.86	
	CP-OFDM 16QAM	Inner_Full	21.65	24.51	30	Pass	2.86



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CP-OFDM 64QAM		Inner_1RB_Left	21.97	24.83	30	Pass	2.86		
		Inner_1RB_Right	22.11	24.97	30	Pass	2.86		
		Edge_Full_Left	19.6	22.46	30	Pass	2.86		
		Edge_Full_Right	19.6	22.46	30	Pass	2.86		
		Edge_1RB_Left	20.16	23.02	30	Pass	2.86		
		Edge_1RB_Right	19.94	22.8	30	Pass	2.86		
		Outer_Full	20.45	23.31	30	Pass	2.86		
		Inner_Full	20.36	23.22	30	Pass	2.86		
		Inner_1RB_Left	19.85	22.71	30	Pass	2.86		
		Inner_1RB_Right	19.86	22.72	30	Pass	2.86		
DFT-s-OFDM PI/2 BPSK	1702.5MHz	Edge_Full_Left	23.1	25.96	30	Pass	2.86		
		Edge_Full_Right	23.14	26	30	Pass	2.86		
		Edge_1RB_Left	23.19	26.05	30	Pass	2.86		
		Edge_1RB_Right	23.25	26.11	30	Pass	2.86		
		Outer_Full	23.18	26.04	30	Pass	2.86		
		Inner_Full	23.65	26.51	30	Pass	2.86		
		Inner_1RB_Left	23.71	26.57	30	Pass	2.86		
		Inner_1RB_Right	23.69	26.55	30	Pass	2.86		
		DFT-s-OFDM QPSK	1702.5MHz	Edge_Full_Left	22.71	25.57	30	Pass	2.86
				Edge_Full_Right	22.75	25.61	30	Pass	2.86
Edge_1RB_Left	22.66			25.52	30	Pass	2.86		
Edge_1RB_Right	22.79			25.65	30	Pass	2.86		
Outer_Full	22.69			25.55	30	Pass	2.86		
Inner_Full	23.61			26.47	30	Pass	2.86		
Inner_1RB_Left	23.69			26.55	30	Pass	2.86		
Inner_1RB_Right	23.64			26.5	30	Pass	2.86		
DFT-s-OFDM 16QAM	1702.5MHz			Edge_Full_Left	21.41	24.27	30	Pass	2.86
				Edge_Full_Right	21.38	24.24	30	Pass	2.86
		Edge_1RB_Left	21.11	23.97	30	Pass	2.86		
		Edge_1RB_Right	21.2	24.06	30	Pass	2.86		
		Outer_Full	21.73	24.59	30	Pass	2.86		
		Inner_Full	22.6	25.46	30	Pass	2.86		
		Inner_1RB_Left	22.21	25.07	30	Pass	2.86		



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DFT-s-OFDM 64QAM	Inner_1RB_Right	22.19	25.05	30	Pass	2.86
	Edge_Full_Left	21	23.86	30	Pass	2.86
	Edge_Full_Right	21.04	23.9	30	Pass	2.86
	Edge_1RB_Left	21.14	24	30	Pass	2.86
	Edge_1RB_Right	21.21	24.07	30	Pass	2.86
	Outer_Full	21.29	24.15	30	Pass	2.86
	Inner_Full	21.17	24.03	30	Pass	2.86
	Inner_1RB_Left	21.12	23.98	30	Pass	2.86
	Inner_1RB_Right	21.2	24.06	30	Pass	2.86
CP-OFDM QPSK	Edge_Full_Left	20.51	23.37	30	Pass	2.86
	Edge_Full_Right	20.51	23.37	30	Pass	2.86
	Edge_1RB_Left	20.59	23.45	30	Pass	2.86
	Edge_1RB_Right	20.49	23.35	30	Pass	2.86
	Outer_Full	20.63	23.49	30	Pass	2.86
	Inner_Full	21.98	24.84	30	Pass	2.86
	Inner_1RB_Left	22.1	24.96	30	Pass	2.86
	Inner_1RB_Right	22.15	25.01	30	Pass	2.86
	Edge_Full_Left	20.63	23.49	30	Pass	2.86
CP-OFDM 16QAM	Edge_Full_Right	20.64	23.5	30	Pass	2.86
	Edge_1RB_Left	20.43	23.29	30	Pass	2.86
	Edge_1RB_Right	20.29	23.15	30	Pass	2.86
	Outer_Full	20.67	23.53	30	Pass	2.86
	Inner_Full	21.53	24.39	30	Pass	2.86
	Inner_1RB_Left	21.33	24.19	30	Pass	2.86
	Inner_1RB_Right	21.27	24.13	30	Pass	2.86
	Edge_Full_Left	19.82	22.68	30	Pass	2.86
	Edge_Full_Right	19.74	22.6	30	Pass	2.86
CP-OFDM 64QAM	Edge_1RB_Left	19.71	22.57	30	Pass	2.86
	Edge_1RB_Right	19.48	22.34	30	Pass	2.86
	Outer_Full	20.14	23	30	Pass	2.86
	Inner_Full	19.99	22.85	30	Pass	2.86
	Inner_1RB_Left	19.56	22.42	30	Pass	2.86
	Inner_1RB_Right	19.54	22.4	30	Pass	2.86



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Frequency Stability

Bandwidth	Modulation	Frequency(MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Result (ppm)	Verdict
5MHz	DFT-s-OFDM PI/2 BPSK	1702.5	Outer_Full	20	LV	4.23	0.0023	Pass
					HV	-3.33	-0.0018	Pass
				-30	NV	2.71	0.0014	Pass
				-20	NV	5.33	0.0028	Pass
				-10	NV	7.07	0.0038	Pass
				0	NV	-3.09	-0.0016	Pass
				10	NV	7.86	0.0042	Pass
				20	NV	5.42	0.0029	Pass
				30	NV	-7.18	-0.0038	Pass
				40	NV	-7.47	-0.0040	Pass
	50			NV	-8.21	-0.0044	Pass	
	CP-OFDM QPSK			20	LV	-3.62	-0.0019	Pass
					HV	-4.87	-0.0026	Pass
				-30	NV	-6.16	-0.0033	Pass
				-20	NV	6.8	0.0036	Pass
				-10	NV	-4.69	-0.0025	Pass
				0	NV	-6.41	-0.0034	Pass
				10	NV	-3.25	-0.0017	Pass
				20	NV	-5.41	-0.0029	Pass
				30	NV	-4.08	-0.0022	Pass
40		NV	9.89	0.0053	Pass			
50	NV	5.56	0.0030	Pass				
10MHz	DFT-s-OFDM PI/2 BPSK	1702.5	Outer_Full	20	LV	4.84	0.0026	Pass
					HV	-5.23	-0.0028	Pass
				-30	NV	-6.09	-0.0032	Pass
				-20	NV	3.09	0.0016	Pass
				-10	NV	-9.9	-0.0053	Pass
				0	NV	-5.97	-0.0032	Pass
				10	NV	3.25	0.0017	Pass



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				20	NV	2.31	0.0012	Pass	
				30	NV	5.86	0.0031	Pass	
				40	NV	-4.42	-0.0024	Pass	
				50	NV	5.72	0.0030	Pass	
	CP-OFDM QPSK			20	LV	3.34	0.0018	Pass	
					HV	-6.93	-0.0037	Pass	
				-30	NV	3.32	0.0018	Pass	
				-20	NV	-3.6	-0.0019	Pass	
				-10	NV	-7.28	-0.0039	Pass	
				0	NV	-8.08	-0.0043	Pass	
				10	NV	-9.36	-0.0050	Pass	
				20	NV	9.02	0.0048	Pass	
				30	NV	-8.59	-0.0046	Pass	
				40	NV	-3.21	-0.0017	Pass	
				50	NV	-4.93	-0.0026	Pass	
15MHz		DFT-s-OFDM PI/2 BPSK	1702.5	Outer_Full	20	LV	7.63	0.0041	Pass
						HV	4.03	0.0021	Pass
					-30	NV	3.3	0.0018	Pass
	-20				NV	2.16	0.0011	Pass	
	-10				NV	-8.74	-0.0046	Pass	
	0				NV	2.11	0.0011	Pass	
	10				NV	3.37	0.0018	Pass	
	20				NV	5.66	0.0030	Pass	
	30				NV	-3.45	-0.0018	Pass	
	40	NV			7.06	0.0038	Pass		
	50	NV			-5.79	-0.0031	Pass		
	CP-OFDM QPSK				20	LV	7.53	0.0040	Pass
						HV	3.17	0.0017	Pass
					-30	NV	7.31	0.0039	Pass
					-20	NV	2.1	0.0011	Pass
					-10	NV	-3.36	-0.0018	Pass
					0	NV	-8.34	-0.0044	Pass
					10	NV	-2.18	-0.0012	Pass
20			NV	-6.33	-0.0034	Pass			



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				30	NV	-9.83	-0.0052	Pass
				40	NV	2.15	0.0011	Pass
				50	NV	-9.15	-0.0049	Pass



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Field Strength of Spurious Radiation

LTE Band 70-Low channel, Modulation: QPSK, Bandwidth:15MHz, 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
3395	-56.67	-13	-43.67	-60.63	2.96	6.92	Horizontal	Pass
5092.5	-53.6	-13	-40.6	-59.48	4.26	10.14	Horizontal	Pass
6790	-51.09	-13	-38.09	-57.375	4.21	10.49	Horizontal	Pass
3395	-56.64	-13	-43.64	-60.6	2.96	6.92	Vertical	Pass
5092.5	-52.03	-13	-39.03	-57.91	4.26	10.14	Vertical	Pass
6790	-51.61	-13	-38.61	-57.895	4.21	10.49	Vertical	Pass

LTE Band 70-Middle channel, Modulation: QPSK, Bandwidth:15MHz, 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
3405	-56.52	-13	-43.52	-60.48	2.96	6.92	Horizontal	Pass
5107.5	-53.49	-13	-40.49	-59.37	4.26	10.14	Horizontal	Pass
6810	-50.25	-13	-37.25	-56.535	4.21	10.49	Horizontal	Pass
3405	-56.34	-13	-43.34	-60.3	2.96	6.92	Vertical	Pass
5107.5	-53.46	-13	-40.46	-59.34	4.26	10.14	Vertical	Pass
6810	-50.87	-13	-37.87	-57.155	4.21	10.49	Vertical	Pass

LTE Band 70-High channel, Modulation: QPSK, Bandwidth:15MHz, 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
3415	-56.74	-13	-43.74	-60.7	2.96	6.92	Horizontal	Pass
5122.5	-52.51	-13	-39.51	-58.39	4.26	10.14	Horizontal	Pass
6830	-49.75	-13	-36.75	-56.035	4.21	10.49	Horizontal	Pass
3415	-56.88	-13	-43.88	-60.84	2.96	6.92	Vertical	Pass
5122.5	-53.05	-13	-40.05	-58.93	4.26	10.14	Vertical	Pass
6830	-50.46	-13	-37.46	-56.745	4.21	10.49	Vertical	Pass

---End of Attachment---



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