



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Appendix B.31

NR Band n41



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Shenzhen Branch Inspection & Testing Laboratory

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99% & 26dB Bandwidth

Test Result

5G NR N41 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	8.653	9.624	/	Pass
CP-OFDM QPSK		Outer Full	8.632	9.985	/	Pass

5G NR N41 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	13.036	14.76	/	Pass
CP-OFDM QPSK		Outer Full	13.712	15.60	/	Pass

5G NR N41 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	17.961	19.77	/	Pass
CP-OFDM QPSK		Outer Full	18.265	20.06	/	Pass



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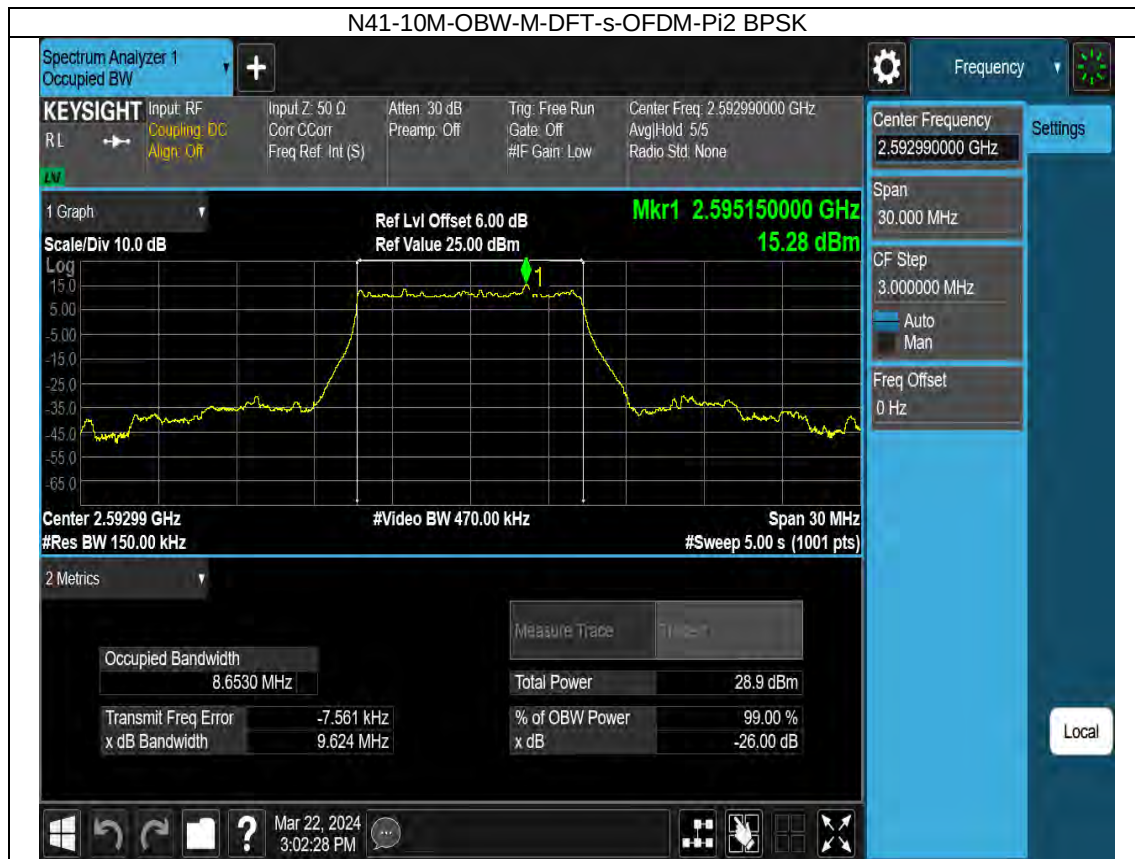
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Test Graph



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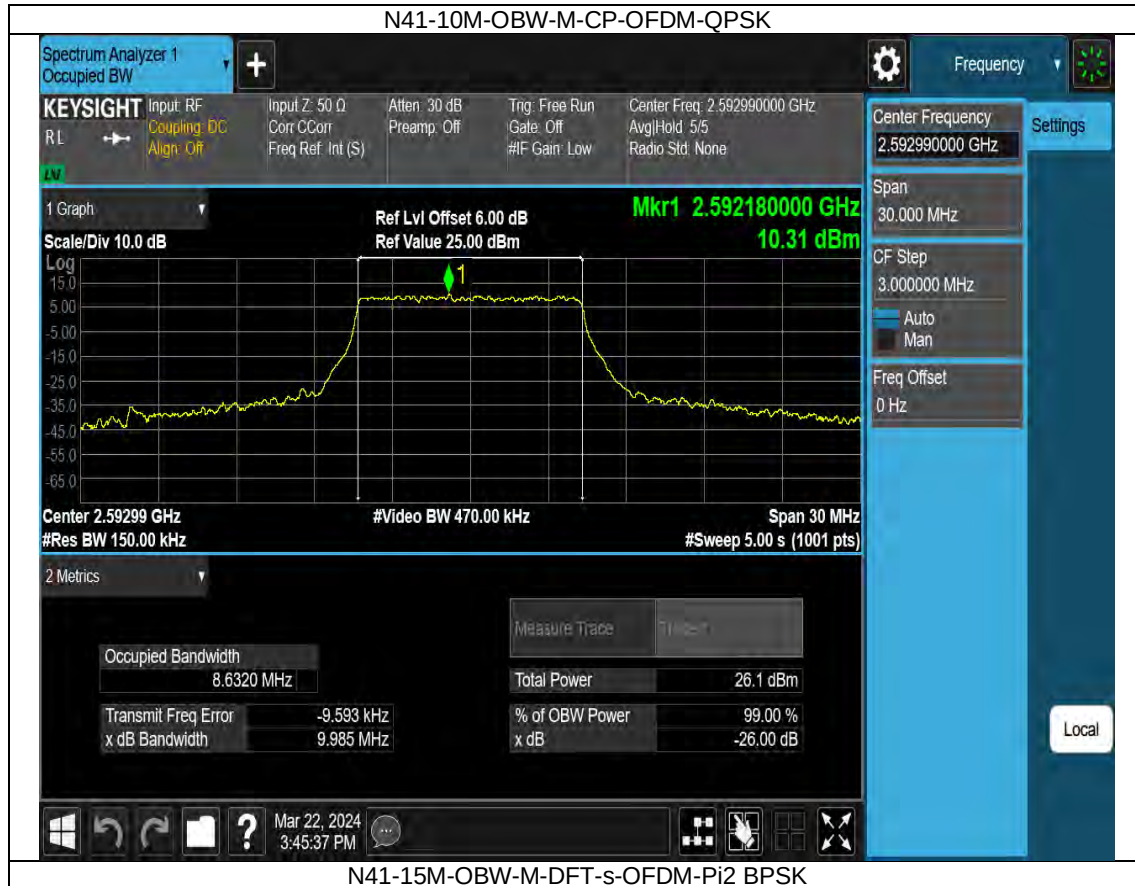


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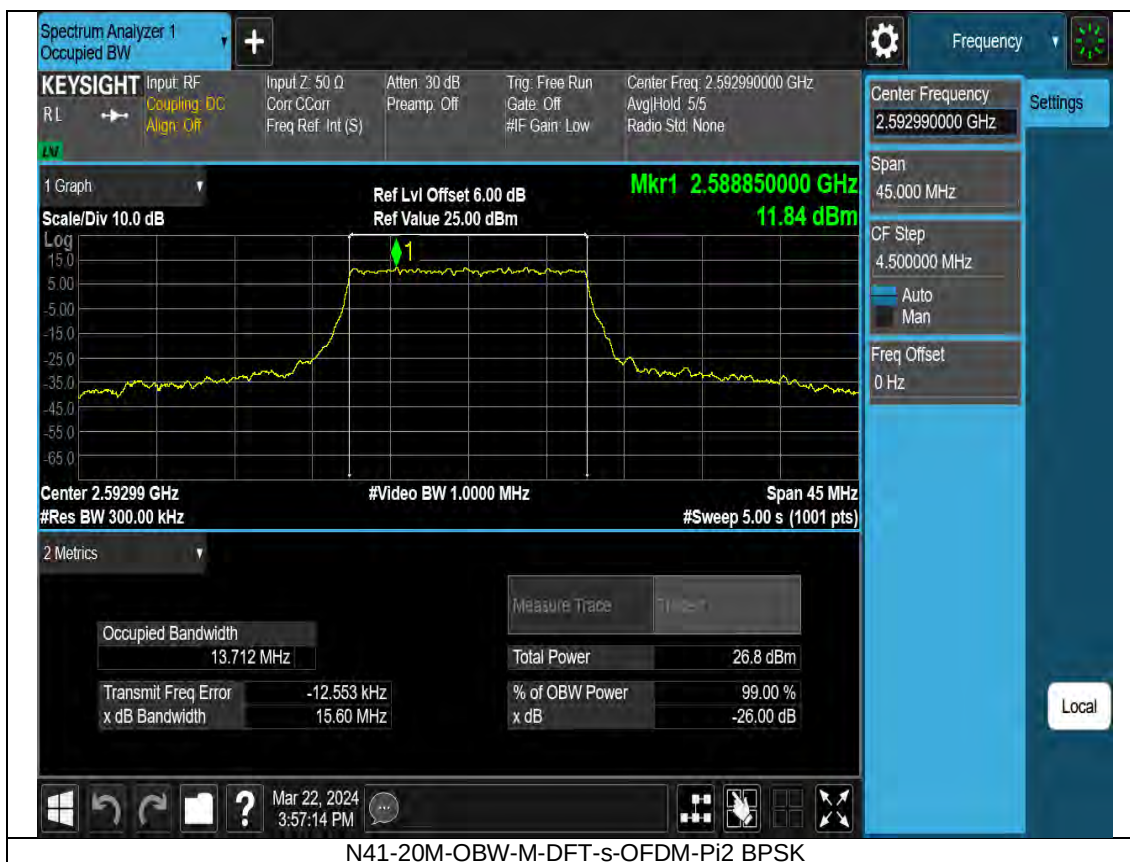


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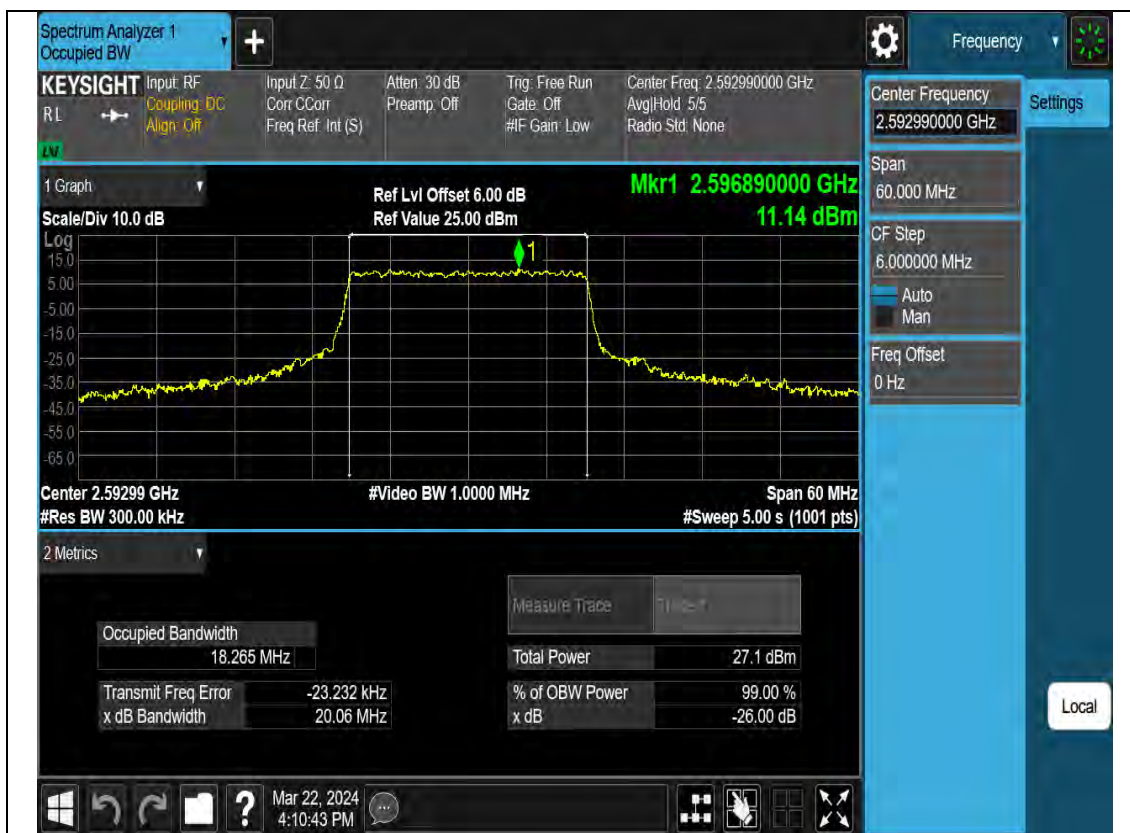


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Peak-Average Ratio

Test Result

5G NR N41 SCS=30kHz 10MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	7.19	<=13	Pass
CP-OFDM QPSK		Outer_Full	10.13	<=13	Pass

5G NR N41 SCS=30kHz 15MHz					
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	10.14	<=13	Pass

5G NR N41 SCS=30kHz 20MHz					
Modulation	Mid CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK		Outer_Full	10.02	<=13	Pass
CP-OFDM QPSK		Outer_Full	10.03	<=13	Pass



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Test Graph



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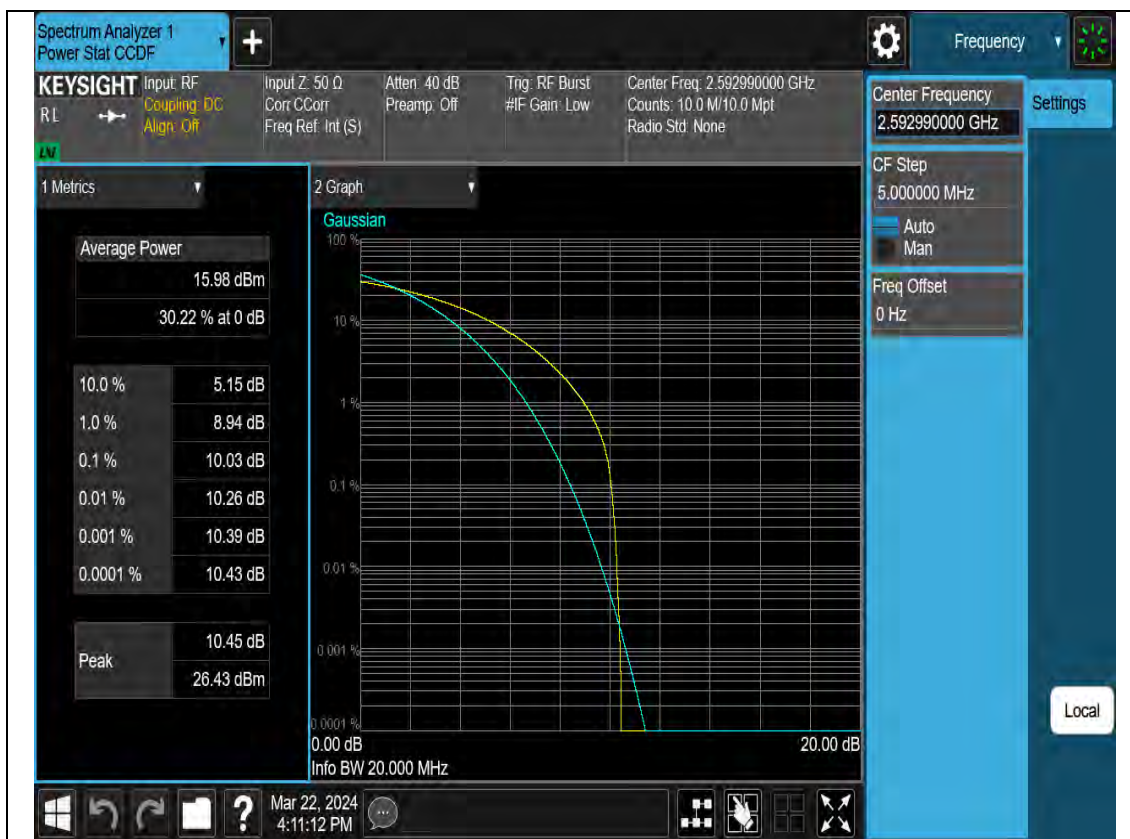


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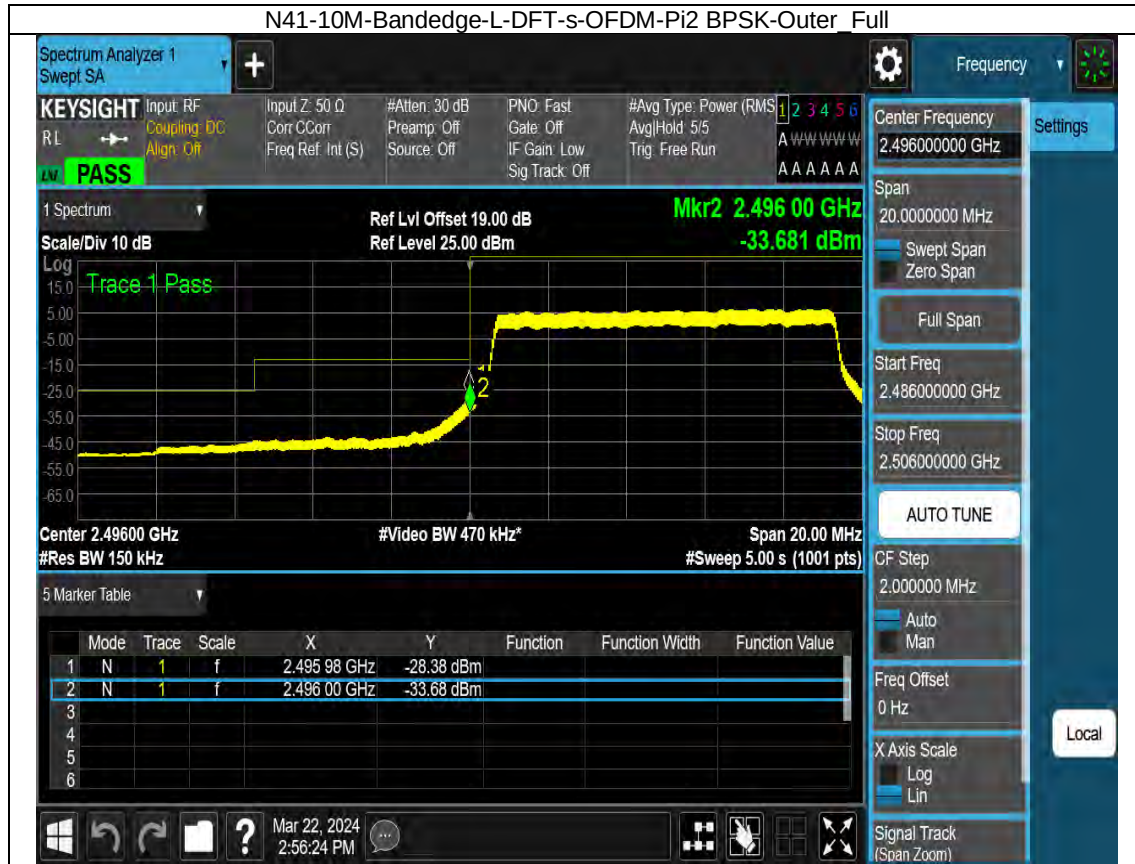
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Conducted spurious emissions

test graph



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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	2501.01MHz	Edge_Full_Left	21.86	24.07	33	Pass	2.21
			Edge_Full_Right	21.97	24.18	33	Pass	2.21
			Edge_1RB_Left	21.83	24.04	33	Pass	2.21
			Edge_1RB_Right	21.92	24.13	33	Pass	2.21
			Outer_Full	21.99	24.2	33	Pass	2.21
			Inner_Full	22.39	24.6	33	Pass	2.21
			Inner_1RB_Left	22.2	24.41	33	Pass	2.21
			Inner_1RB_Right	22.36	24.57	33	Pass	2.21
	DFT-s-OFDM QPSK		Edge_Full_Left	21.34	23.55	33	Pass	2.21
			Edge_Full_Right	21.37	23.58	33	Pass	2.21
			Edge_1RB_Left	21.09	23.3	33	Pass	2.21
			Edge_1RB_Right	21.36	23.57	33	Pass	2.21
			Outer_Full	21.42	23.63	33	Pass	2.21
			Inner_Full	22.33	24.54	33	Pass	2.21
			Inner_1RB_Left	22.22	24.43	33	Pass	2.21
			Inner_1RB_Right	22.32	24.53	33	Pass	2.21
	DFT-s-OFDM 16QAM		Edge_Full_Left	20	22.21	33	Pass	2.21
			Edge_Full_Right	20.29	22.5	33	Pass	2.21
			Edge_1RB_Left	20.04	22.25	33	Pass	2.21
			Edge_1RB_Right	20.25	22.46	33	Pass	2.21
			Outer_Full	20.49	22.7	33	Pass	2.21
			Inner_Full	21.39	23.6	33	Pass	2.21
			Inner_1RB_Left	21.1	23.31	33	Pass	2.21
			Inner_1RB_Right	21.15	23.36	33	Pass	2.21
	DFT-s-OFDM 64QAM		Edge_Full_Left	19.9	22.11	33	Pass	2.21
			Edge_Full_Right	19.95	22.16	33	Pass	2.21
			Edge_1RB_Left	19.88	22.09	33	Pass	2.21
			Edge_1RB_Right	19.92	22.13	33	Pass	2.21
Outer_Full		19.98	22.19	33	Pass	2.21		



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	CP-OFDM QPSK	Inner_Full	19.95	22.16	33	Pass	2.21
		Inner_1RB_Left	19.8	22.01	33	Pass	2.21
		Inner_1RB_Right	19.93	22.14	33	Pass	2.21
		Edge_Full_Left	19.28	21.49	33	Pass	2.21
		Edge_Full_Right	19.38	21.59	33	Pass	2.21
		Edge_1RB_Left	19.28	21.49	33	Pass	2.21
		Edge_1RB_Right	19.27	21.48	33	Pass	2.21
		Outer_Full	19.58	21.79	33	Pass	2.21
		Inner_Full	20.92	23.13	33	Pass	2.21
		Inner_1RB_Left	20.62	22.83	33	Pass	2.21
	CP-OFDM 16QAM	Inner_1RB_Right	21.08	23.29	33	Pass	2.21
		Edge_Full_Left	19.27	21.48	33	Pass	2.21
		Edge_Full_Right	19.32	21.53	33	Pass	2.21
		Edge_1RB_Left	19.33	21.54	33	Pass	2.21
		Edge_1RB_Right	19.46	21.67	33	Pass	2.21
		Outer_Full	19.49	21.7	33	Pass	2.21
		Inner_Full	20.29	22.5	33	Pass	2.21
		Inner_1RB_Left	20.27	22.48	33	Pass	2.21
		Inner_1RB_Right	20.43	22.64	33	Pass	2.21
		Edge_Full_Left	18.85	21.06	33	Pass	2.21
	CP-OFDM 64QAM	Edge_Full_Right	18.91	21.12	33	Pass	2.21
		Edge_1RB_Left	18.53	20.74	33	Pass	2.21
		Edge_1RB_Right	18.71	20.92	33	Pass	2.21
		Outer_Full	19	21.21	33	Pass	2.21
		Inner_Full	18.86	21.07	33	Pass	2.21
		Inner_1RB_Left	18.59	20.8	33	Pass	2.21
		Inner_1RB_Right	18.54	20.75	33	Pass	2.21
	DFT-s-OFDM PI/2 BPSK	Edge_Full_Left	22.47	24.68	33	Pass	2.21
		Edge_Full_Right	22.51	24.72	33	Pass	2.21
		Edge_1RB_Left	22.46	24.67	33	Pass	2.21
		Edge_1RB_Right	22.48	24.69	33	Pass	2.21
		Outer_Full	22.73	24.94	33	Pass	2.21
		Inner_Full	23.14	25.35	33	Pass	2.21



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	DFT-s-OFDM QPSK	Inner_1RB_Left	22.9	25.11	33	Pass	2.21
		Inner_1RB_Right	22.9	25.11	33	Pass	2.21
		Edge_Full_Left	22.03	24.24	33	Pass	2.21
		Edge_Full_Right	22.07	24.28	33	Pass	2.21
	DFT-s-OFDM 16QAM	Edge_1RB_Left	21.85	24.06	33	Pass	2.21
		Edge_1RB_Right	21.98	24.19	33	Pass	2.21
		Outer_Full	22.18	24.39	33	Pass	2.21
		Inner_Full	23.08	25.29	33	Pass	2.21
	DFT-s-OFDM 64QAM	Inner_1RB_Left	22.91	25.12	33	Pass	2.21
		Inner_1RB_Right	22.97	25.18	33	Pass	2.21
		Edge_Full_Left	20.85	23.06	33	Pass	2.21
		Edge_Full_Right	20.79	23	33	Pass	2.21
	CP-OFDM QPSK	Edge_1RB_Left	20.74	22.95	33	Pass	2.21
		Edge_1RB_Right	20.87	23.08	33	Pass	2.21
		Outer_Full	21.2	23.41	33	Pass	2.21
		Inner_Full	22.1	24.31	33	Pass	2.21
		Inner_1RB_Left	21.81	24.02	33	Pass	2.21
		Inner_1RB_Right	21.97	24.18	33	Pass	2.21
		Edge_Full_Left	20.55	22.76	33	Pass	2.21
		Edge_Full_Right	20.52	22.73	33	Pass	2.21
		Edge_1RB_Left	20.42	22.63	33	Pass	2.21
		Edge_1RB_Right	20.55	22.76	33	Pass	2.21
		Outer_Full	20.74	22.95	33	Pass	2.21
		Inner_Full	20.54	22.75	33	Pass	2.21
		Inner_1RB_Left	20.49	22.7	33	Pass	2.21
		Inner_1RB_Right	20.57	22.78	33	Pass	2.21
		Edge_Full_Left	20.01	22.22	33	Pass	2.21
		Edge_Full_Right	20.01	22.22	33	Pass	2.21
		Edge_1RB_Left	19.75	21.96	33	Pass	2.21
		Edge_1RB_Right	19.94	22.15	33	Pass	2.21
		Outer_Full	20.08	22.29	33	Pass	2.21
		Inner_Full	21.58	23.79	33	Pass	2.21
		Inner_1RB_Left	21.52	23.73	33	Pass	2.21



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CP-OFDM 16QAM	Inner_1RB_Right	21.37	23.58	33	Pass	2.21
	Edge_Full_Left	19.94	22.15	33	Pass	2.21
	Edge_Full_Right	19.96	22.17	33	Pass	2.21
CP-OFDM 64QAM	Edge_1RB_Left	19.97	22.18	33	Pass	2.21
	Edge_1RB_Right	20.01	22.22	33	Pass	2.21
	Outer_Full	20.22	22.43	33	Pass	2.21
	Inner_Full	21.01	23.22	33	Pass	2.21
	Inner_1RB_Left	20.94	23.15	33	Pass	2.21
	Inner_1RB_Right	21	23.21	33	Pass	2.21
	Edge_Full_Left	19.51	21.72	33	Pass	2.21
	Edge_Full_Right	19.55	21.76	33	Pass	2.21
	Edge_1RB_Left	19.1	21.31	33	Pass	2.21
	Edge_1RB_Right	19.2	21.41	33	Pass	2.21
DFT-s-OFDM PI/2 BPSK	Outer_Full	19.66	21.87	33	Pass	2.21
	Inner_Full	19.61	21.82	33	Pass	2.21
	Inner_1RB_Left	19.23	21.44	33	Pass	2.21
	Inner_1RB_Right	19.21	21.42	33	Pass	2.21
	Edge_Full_Left	22.01	24.22	33	Pass	2.21
	Edge_Full_Right	22.1	24.31	33	Pass	2.21
	Edge_1RB_Left	21.96	24.17	33	Pass	2.21
	Edge_1RB_Right	22.12	24.33	33	Pass	2.21
	Outer_Full	22.36	24.57	33	Pass	2.21
	Inner_Full	22.73	24.94	33	Pass	2.21
DFT-s-OFDM QPSK	Inner_1RB_Left	22.5	24.71	33	Pass	2.21
	Inner_1RB_Right	22.61	24.82	33	Pass	2.21
	Edge_Full_Left	21.69	23.9	33	Pass	2.21
	Edge_Full_Right	21.72	23.93	33	Pass	2.21
	Edge_1RB_Left	21.5	23.71	33	Pass	2.21
	Edge_1RB_Right	21.61	23.82	33	Pass	2.21
	Outer_Full	21.81	24.02	33	Pass	2.21
	Inner_Full	22.63	24.84	33	Pass	2.21
	Inner_1RB_Left	22.54	24.75	33	Pass	2.21
	Inner_1RB_Right	22.59	24.8	33	Pass	2.21



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DFT-s-OFDM 16QAM	Edge_Full_Left	20.53	22.74	33	Pass	2.21
	Edge_Full_Right	20.57	22.78	33	Pass	2.21
	Edge_1RB_Left	20.41	22.62	33	Pass	2.21
	Edge_1RB_Right	20.47	22.68	33	Pass	2.21
DFT-s-OFDM 64QAM	Outer_Full	20.8	23.01	33	Pass	2.21
	Inner_Full	21.75	23.96	33	Pass	2.21
	Inner_1RB_Left	21.33	23.54	33	Pass	2.21
	Inner_1RB_Right	21.39	23.6	33	Pass	2.21
	Edge_Full_Left	20.18	22.39	33	Pass	2.21
	Edge_Full_Right	20.32	22.53	33	Pass	2.21
	Edge_1RB_Left	20.37	22.58	33	Pass	2.21
	Edge_1RB_Right	20.43	22.64	33	Pass	2.21
CP-OFDM QPSK	Outer_Full	20.38	22.59	33	Pass	2.21
	Inner_Full	20.35	22.56	33	Pass	2.21
	Inner_1RB_Left	20.3	22.51	33	Pass	2.21
	Inner_1RB_Right	20.47	22.68	33	Pass	2.21
	Edge_Full_Left	19.66	21.87	33	Pass	2.21
	Edge_Full_Right	19.69	21.9	33	Pass	2.21
	Edge_1RB_Left	19.61	21.82	33	Pass	2.21
	Edge_1RB_Right	19.67	21.88	33	Pass	2.21
CP-OFDM 16QAM	Outer_Full	19.82	22.03	33	Pass	2.21
	Inner_Full	21.25	23.46	33	Pass	2.21
	Inner_1RB_Left	20.97	23.18	33	Pass	2.21
	Inner_1RB_Right	21.22	23.43	33	Pass	2.21
	Edge_Full_Left	19.57	21.78	33	Pass	2.21
	Edge_Full_Right	19.57	21.78	33	Pass	2.21
	Edge_1RB_Left	19.56	21.77	33	Pass	2.21
	Edge_1RB_Right	19.74	21.95	33	Pass	2.21
CP-OFDM 64QAM	Outer_Full	19.81	22.02	33	Pass	2.21
	Inner_Full	20.75	22.96	33	Pass	2.21
	Inner_1RB_Left	20.66	22.87	33	Pass	2.21
	Inner_1RB_Right	20.59	22.8	33	Pass	2.21
	Edge_Full_Left	19.1	21.31	33	Pass	2.21



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			Edge_Full_Right	19.11	21.32	33	Pass	2.21
			Edge_1RB_Left	18.84	21.05	33	Pass	2.21
			Edge_1RB_Right	18.84	21.05	33	Pass	2.21
			Outer_Full	19.3	21.51	33	Pass	2.21
			Inner_Full	19.26	21.47	33	Pass	2.21
			Inner_1RB_Left	18.84	21.05	33	Pass	2.21
			Inner_1RB_Right	18.85	21.06	33	Pass	2.21
15MHz	DFT-s-OFDM PI/2 BPSK	2503.5MHz	Edge_Full_Left	21.88	24.09	33	Pass	2.21
			Edge_Full_Right	22.02	24.23	33	Pass	2.21
			Edge_1RB_Left	21.81	24.02	33	Pass	2.21
			Edge_1RB_Right	21.93	24.14	33	Pass	2.21
			Outer_Full	22.08	24.29	33	Pass	2.21
			Inner_Full	22.55	24.76	33	Pass	2.21
			Inner_1RB_Left	22.26	24.47	33	Pass	2.21
			Inner_1RB_Right	22.48	24.69	33	Pass	2.21
	DFT-s-OFDM QPSK		Edge_Full_Left	21.32	23.53	33	Pass	2.21
			Edge_Full_Right	21.54	23.75	33	Pass	2.21
			Edge_1RB_Left	21.16	23.37	33	Pass	2.21
			Edge_1RB_Right	21.4	23.61	33	Pass	2.21
			Outer_Full	21.6	23.81	33	Pass	2.21
			Inner_Full	22.47	24.68	33	Pass	2.21
			Inner_1RB_Left	22.19	24.4	33	Pass	2.21
			Inner_1RB_Right	22.47	24.68	33	Pass	2.21
	DFT-s-OFDM 16QAM		Edge_Full_Left	20.32	22.53	33	Pass	2.21
			Edge_Full_Right	20.34	22.55	33	Pass	2.21
			Edge_1RB_Left	20.26	22.47	33	Pass	2.21
			Edge_1RB_Right	20.48	22.69	33	Pass	2.21
			Outer_Full	20.58	22.79	33	Pass	2.21
			Inner_Full	21.44	23.65	33	Pass	2.21
			Inner_1RB_Left	21.22	23.43	33	Pass	2.21
			Inner_1RB_Right	21.39	23.6	33	Pass	2.21
	DFT-s-OFDM 64QAM		Edge_Full_Left	19.86	22.07	33	Pass	2.21
			Edge_Full_Right	20.08	22.29	33	Pass	2.21



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		Edge_1RB_Left	19.82	22.03	33	Pass	2.21
		Edge_1RB_Right	19.97	22.18	33	Pass	2.21
		Outer_Full	20.07	22.28	33	Pass	2.21
		Inner_Full	19.97	22.18	33	Pass	2.21
CP-OFDM QPSK		Inner_1RB_Left	19.79	22	33	Pass	2.21
		Inner_1RB_Right	19.98	22.19	33	Pass	2.21
		Edge_Full_Left	19.33	21.54	33	Pass	2.21
		Edge_Full_Right	19.43	21.64	33	Pass	2.21
		Edge_1RB_Left	19.32	21.53	33	Pass	2.21
		Edge_1RB_Right	19.41	21.62	33	Pass	2.21
		Outer_Full	19.61	21.82	33	Pass	2.21
		Inner_Full	20.98	23.19	33	Pass	2.21
		Inner_1RB_Left	20.87	23.08	33	Pass	2.21
		Inner_1RB_Right	20.97	23.18	33	Pass	2.21
		Edge_Full_Left	19.21	21.42	33	Pass	2.21
		Edge_Full_Right	19.34	21.55	33	Pass	2.21
CP-OFDM 16QAM		Edge_1RB_Left	19.42	21.63	33	Pass	2.21
		Edge_1RB_Right	19.4	21.61	33	Pass	2.21
		Outer_Full	19.55	21.76	33	Pass	2.21
		Inner_Full	20.47	22.68	33	Pass	2.21
		Inner_1RB_Left	20.22	22.43	33	Pass	2.21
		Inner_1RB_Right	20.54	22.75	33	Pass	2.21
		Edge_Full_Left	18.78	20.99	33	Pass	2.21
		Edge_Full_Right	19.01	21.22	33	Pass	2.21
		Edge_1RB_Left	18.62	20.83	33	Pass	2.21
		Edge_1RB_Right	18.82	21.03	33	Pass	2.21
		Outer_Full	19	21.21	33	Pass	2.21
		Inner_Full	19	21.21	33	Pass	2.21
CP-OFDM 64QAM		Inner_1RB_Left	18.64	20.85	33	Pass	2.21
		Inner_1RB_Right	18.79	21	33	Pass	2.21
		Edge_Full_Left	22.58	24.79	33	Pass	2.21
		Edge_Full_Right	22.56	24.77	33	Pass	2.21
		Edge_1RB_Left	22.37	24.58	33	Pass	2.21
DFT-s-OFDM PI/2 BPSK	2592.99MHz						



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		Edge_1RB_Right	22.43	24.64	33	Pass	2.21
		Outer_Full	22.71	24.92	33	Pass	2.21
		Inner_Full	23.05	25.26	33	Pass	2.21
		Inner_1RB_Left	22.94	25.15	33	Pass	2.21
DFT-s-OFDM QPSK		Inner_1RB_Right	22.98	25.19	33	Pass	2.21
		Edge_Full_Left	22.09	24.3	33	Pass	2.21
		Edge_Full_Right	22.04	24.25	33	Pass	2.21
		Edge_1RB_Left	21.89	24.1	33	Pass	2.21
		Edge_1RB_Right	21.9	24.11	33	Pass	2.21
		Outer_Full	22.12	24.33	33	Pass	2.21
		Inner_Full	23.04	25.25	33	Pass	2.21
		Inner_1RB_Left	23.02	25.23	33	Pass	2.21
		Inner_1RB_Right	23.01	25.22	33	Pass	2.21
		Edge_Full_Left	20.76	22.97	33	Pass	2.21
		Edge_Full_Right	20.83	23.04	33	Pass	2.21
		Edge_1RB_Left	20.73	22.94	33	Pass	2.21
DFT-s-OFDM 16QAM		Edge_1RB_Right	20.81	23.02	33	Pass	2.21
		Outer_Full	21.15	23.36	33	Pass	2.21
		Inner_Full	22.18	24.39	33	Pass	2.21
		Inner_1RB_Left	22.05	24.26	33	Pass	2.21
		Inner_1RB_Right	22.05	24.26	33	Pass	2.21
		Edge_Full_Left	20.58	22.79	33	Pass	2.21
		Edge_Full_Right	20.6	22.81	33	Pass	2.21
		Edge_1RB_Left	20.66	22.87	33	Pass	2.21
		Edge_1RB_Right	20.59	22.8	33	Pass	2.21
		Outer_Full	20.71	22.92	33	Pass	2.21
		Inner_Full	20.69	22.9	33	Pass	2.21
		Inner_1RB_Left	20.57	22.78	33	Pass	2.21
DFT-s-OFDM 64QAM		Inner_1RB_Right	20.65	22.86	33	Pass	2.21
		Edge_Full_Left	19.88	22.09	33	Pass	2.21
		Edge_Full_Right	19.99	22.2	33	Pass	2.21
		Edge_1RB_Left	20.04	22.25	33	Pass	2.21
		Edge_1RB_Right	20.01	22.22	33	Pass	2.21
CP-OFDM QPSK							



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		Outer_Full	20.16	22.37	33	Pass	2.21
		Inner_Full	21.58	23.79	33	Pass	2.21
		Inner_1RB_Left	21.59	23.8	33	Pass	2.21
		Inner_1RB_Right	21.36	23.57	33	Pass	2.21
CP-OFDM 16QAM		Edge_Full_Left	20.05	22.26	33	Pass	2.21
		Edge_Full_Right	20.04	22.25	33	Pass	2.21
		Edge_1RB_Left	19.87	22.08	33	Pass	2.21
		Edge_1RB_Right	19.89	22.1	33	Pass	2.21
		Outer_Full	20.16	22.37	33	Pass	2.21
		Inner_Full	21.07	23.28	33	Pass	2.21
		Inner_1RB_Left	21.07	23.28	33	Pass	2.21
		Inner_1RB_Right	21.23	23.44	33	Pass	2.21
CP-OFDM 64QAM		Edge_Full_Left	19.42	21.63	33	Pass	2.21
		Edge_Full_Right	19.5	21.71	33	Pass	2.21
		Edge_1RB_Left	19.44	21.65	33	Pass	2.21
		Edge_1RB_Right	19.56	21.77	33	Pass	2.21
		Outer_Full	19.75	21.96	33	Pass	2.21
		Inner_Full	19.51	21.72	33	Pass	2.21
		Inner_1RB_Left	19.46	21.67	33	Pass	2.21
		Inner_1RB_Right	19.46	21.67	33	Pass	2.21
DFT-s-OFDM PI/2 BPSK	2682.48MHz	Edge_Full_Left	22.09	24.3	33	Pass	2.21
		Edge_Full_Right	22.16	24.37	33	Pass	2.21
		Edge_1RB_Left	21.86	24.07	33	Pass	2.21
		Edge_1RB_Right	22.14	24.35	33	Pass	2.21
		Outer_Full	22.3	24.51	33	Pass	2.21
		Inner_Full	22.72	24.93	33	Pass	2.21
		Inner_1RB_Left	22.49	24.7	33	Pass	2.21
		Inner_1RB_Right	22.46	24.67	33	Pass	2.21
DFT-s-OFDM QPSK		Edge_Full_Left	21.62	23.83	33	Pass	2.21
		Edge_Full_Right	21.67	23.88	33	Pass	2.21
		Edge_1RB_Left	21.39	23.6	33	Pass	2.21
		Edge_1RB_Right	21.67	23.88	33	Pass	2.21
		Outer_Full	21.76	23.97	33	Pass	2.21



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		Inner_Full	22.61	24.82	33	Pass	2.21
		Inner_1RB_Left	22.51	24.72	33	Pass	2.21
		Inner_1RB_Right	22.49	24.7	33	Pass	2.21
		Edge_Full_Left	20.48	22.69	33	Pass	2.21
DFT-s-OFDM 16QAM		Edge_Full_Right	20.53	22.74	33	Pass	2.21
		Edge_1RB_Left	20.46	22.67	33	Pass	2.21
		Edge_1RB_Right	20.44	22.65	33	Pass	2.21
		Outer_Full	20.72	22.93	33	Pass	2.21
		Inner_Full	21.67	23.88	33	Pass	2.21
		Inner_1RB_Left	21.31	23.52	33	Pass	2.21
		Inner_1RB_Right	21.35	23.56	33	Pass	2.21
		Edge_Full_Left	20.23	22.44	33	Pass	2.21
DFT-s-OFDM 64QAM		Edge_Full_Right	20.28	22.49	33	Pass	2.21
		Edge_1RB_Left	20.28	22.49	33	Pass	2.21
		Edge_1RB_Right	20.29	22.5	33	Pass	2.21
		Outer_Full	20.33	22.54	33	Pass	2.21
		Inner_Full	20.17	22.38	33	Pass	2.21
		Inner_1RB_Left	20.36	22.57	33	Pass	2.21
		Inner_1RB_Right	20.42	22.63	33	Pass	2.21
		Edge_Full_Left	19.55	21.76	33	Pass	2.21
CP-OFDM QPSK		Edge_Full_Right	19.62	21.83	33	Pass	2.21
		Edge_1RB_Left	19.62	21.83	33	Pass	2.21
		Edge_1RB_Right	19.51	21.72	33	Pass	2.21
		Outer_Full	19.74	21.95	33	Pass	2.21
		Inner_Full	21.16	23.37	33	Pass	2.21
		Inner_1RB_Left	21.24	23.45	33	Pass	2.21
		Inner_1RB_Right	20.98	23.19	33	Pass	2.21
		Edge_Full_Left	19.43	21.64	33	Pass	2.21
CP-OFDM 16QAM		Edge_Full_Right	19.53	21.74	33	Pass	2.21
		Edge_1RB_Left	19.51	21.72	33	Pass	2.21
		Edge_1RB_Right	19.57	21.78	33	Pass	2.21
		Outer_Full	19.87	22.08	33	Pass	2.21
		Inner_Full	20.68	22.89	33	Pass	2.21



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			Inner_1RB_Left	20.59	22.8	33	Pass	2.21
			Inner_1RB_Right	20.54	22.75	33	Pass	2.21
	CP-OFDM 64QAM		Edge_Full_Left	19.14	21.35	33	Pass	2.21
			Edge_Full_Right	19.04	21.25	33	Pass	2.21
			Edge_1RB_Left	18.88	21.09	33	Pass	2.21
			Edge_1RB_Right	18.89	21.1	33	Pass	2.21
			Outer_Full	19.33	21.54	33	Pass	2.21
			Inner_Full	19.19	21.4	33	Pass	2.21
			Inner_1RB_Left	18.98	21.19	33	Pass	2.21
			Inner_1RB_Right	19.03	21.24	33	Pass	2.21
20MHz	DFT-s-OFDM PI/2 BPSK		Edge_Full_Left	21.88	24.09	33	Pass	2.21
			Edge_Full_Right	22.11	24.32	33	Pass	2.21
			Edge_1RB_Left	21.86	24.07	33	Pass	2.21
			Edge_1RB_Right	22.01	24.22	33	Pass	2.21
			Outer_Full	22.24	24.45	33	Pass	2.21
			Inner_Full	22.56	24.77	33	Pass	2.21
			Inner_1RB_Left	22.23	24.44	33	Pass	2.21
			Inner_1RB_Right	22.5	24.71	33	Pass	2.21
	DFT-s-OFDM QPSK		Edge_Full_Left	21.35	23.56	33	Pass	2.21
			Edge_Full_Right	21.62	23.83	33	Pass	2.21
			Edge_1RB_Left	21.35	23.56	33	Pass	2.21
			Edge_1RB_Right	21.48	23.69	33	Pass	2.21
			Outer_Full	21.66	23.87	33	Pass	2.21
			Inner_Full	22.51	24.72	33	Pass	2.21
			Inner_1RB_Left	22.24	24.45	33	Pass	2.21
			Inner_1RB_Right	22.48	24.69	33	Pass	2.21
	DFT-s-OFDM 16QAM		Edge_Full_Left	20.13	22.34	33	Pass	2.21
			Edge_Full_Right	20.37	22.58	33	Pass	2.21
			Edge_1RB_Left	20.13	22.34	33	Pass	2.21
			Edge_1RB_Right	20.35	22.56	33	Pass	2.21
			Outer_Full	20.68	22.89	33	Pass	2.21
			Inner_Full	21.56	23.77	33	Pass	2.21
			Inner_1RB_Left	21.16	23.37	33	Pass	2.21



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DFT-s-OFDM 64QAM	Inner_1RB_Right	21.33	23.54	33	Pass	2.21
	Edge_Full_Left	19.81	22.02	33	Pass	2.21
	Edge_Full_Right	20.14	22.35	33	Pass	2.21
	Edge_1RB_Left	19.85	22.06	33	Pass	2.21
CP-OFDM QPSK	Edge_1RB_Right	19.98	22.19	33	Pass	2.21
	Outer_Full	20.18	22.39	33	Pass	2.21
	Inner_Full	20.02	22.23	33	Pass	2.21
	Inner_1RB_Left	19.8	22.01	33	Pass	2.21
CP-OFDM 16QAM	Inner_1RB_Right	20.12	22.33	33	Pass	2.21
	Edge_Full_Left	19.3	21.51	33	Pass	2.21
	Edge_Full_Right	19.61	21.82	33	Pass	2.21
	Edge_1RB_Left	19.39	21.6	33	Pass	2.21
CP-OFDM 64QAM	Edge_1RB_Right	19.19	21.4	33	Pass	2.21
	Outer_Full	19.62	21.83	33	Pass	2.21
	Inner_Full	21.11	23.32	33	Pass	2.21
	Inner_1RB_Left	20.7	22.91	33	Pass	2.21
CP-OFDM 64QAM	Inner_1RB_Right	21	23.21	33	Pass	2.21
	Edge_Full_Left	19.27	21.48	33	Pass	2.21
	Edge_Full_Right	19.39	21.6	33	Pass	2.21
	Edge_1RB_Left	19.29	21.5	33	Pass	2.21
CP-OFDM 64QAM	Edge_1RB_Right	19.48	21.69	33	Pass	2.21
	Outer_Full	19.71	21.92	33	Pass	2.21
	Inner_Full	20.52	22.73	33	Pass	2.21
	Inner_1RB_Left	20.27	22.48	33	Pass	2.21
CP-OFDM 64QAM	Inner_1RB_Right	20.52	22.73	33	Pass	2.21
	Edge_Full_Left	18.82	21.03	33	Pass	2.21
	Edge_Full_Right	19.02	21.23	33	Pass	2.21
	Edge_1RB_Left	18.64	20.85	33	Pass	2.21
CP-OFDM 64QAM	Edge_1RB_Right	18.97	21.18	33	Pass	2.21
	Outer_Full	19.12	21.33	33	Pass	2.21
	Inner_Full	19.17	21.38	33	Pass	2.21
	Inner_1RB_Left	18.74	20.95	33	Pass	2.21
CP-OFDM 64QAM	Inner_1RB_Right	18.98	21.19	33	Pass	2.21



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DFT-s-OFDM PI/2 BPSK			Edge_Full_Left	22.51	24.72	33	Pass	2.21
			Edge_Full_Right	22.53	24.74	33	Pass	2.21
			Edge_1RB_Left	22.5	24.71	33	Pass	2.21
			Edge_1RB_Right	22.45	24.66	33	Pass	2.21
DFT-s-OFDM QPSK		2592.99MHz	Outer_Full	22.66	24.87	33	Pass	2.21
			Inner_Full	23.16	25.37	33	Pass	2.21
			Inner_1RB_Left	22.94	25.15	33	Pass	2.21
			Inner_1RB_Right	22.88	25.09	33	Pass	2.21
			Edge_Full_Left	21.99	24.2	33	Pass	2.21
			Edge_Full_Right	21.95	24.16	33	Pass	2.21
			Edge_1RB_Left	21.94	24.15	33	Pass	2.21
			Edge_1RB_Right	21.87	24.08	33	Pass	2.21
DFT-s-OFDM 16QAM			Outer_Full	22.18	24.39	33	Pass	2.21
			Inner_Full	23.09	25.3	33	Pass	2.21
			Inner_1RB_Left	22.84	25.05	33	Pass	2.21
			Inner_1RB_Right	22.96	25.17	33	Pass	2.21
			Edge_Full_Left	20.81	23.02	33	Pass	2.21
			Edge_Full_Right	20.85	23.06	33	Pass	2.21
			Edge_1RB_Left	20.79	23	33	Pass	2.21
			Edge_1RB_Right	20.84	23.05	33	Pass	2.21
DFT-s-OFDM 64QAM			Outer_Full	21.17	23.38	33	Pass	2.21
			Inner_Full	22.12	24.33	33	Pass	2.21
			Inner_1RB_Left	21.76	23.97	33	Pass	2.21
			Inner_1RB_Right	21.81	24.02	33	Pass	2.21
			Edge_Full_Left	20.61	22.82	33	Pass	2.21
			Edge_Full_Right	20.6	22.81	33	Pass	2.21
			Edge_1RB_Left	20.5	22.71	33	Pass	2.21
			Edge_1RB_Right	20.54	22.75	33	Pass	2.21
CP-OFDM QPSK			Outer_Full	20.75	22.96	33	Pass	2.21
			Inner_Full	20.64	22.85	33	Pass	2.21
			Inner_1RB_Left	20.49	22.7	33	Pass	2.21
			Inner_1RB_Right	20.54	22.75	33	Pass	2.21
			Edge_Full_Left	19.93	22.14	33	Pass	2.21



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		Edge_Full_Right	19.99	22.2	33	Pass	2.21
		Edge_1RB_Left	19.86	22.07	33	Pass	2.21
		Edge_1RB_Right	19.96	22.17	33	Pass	2.21
		Outer_Full	20.16	22.37	33	Pass	2.21
CP-OFDM 16QAM		Inner_Full	21.61	23.82	33	Pass	2.21
		Inner_1RB_Left	21.55	23.76	33	Pass	2.21
		Inner_1RB_Right	21.26	23.47	33	Pass	2.21
		Edge_Full_Left	20.06	22.27	33	Pass	2.21
		Edge_Full_Right	20.13	22.34	33	Pass	2.21
		Edge_1RB_Left	19.89	22.1	33	Pass	2.21
		Edge_1RB_Right	19.91	22.12	33	Pass	2.21
		Outer_Full	20.28	22.49	33	Pass	2.21
CP-OFDM 64QAM		Inner_Full	21.25	23.46	33	Pass	2.21
		Inner_1RB_Left	20.99	23.2	33	Pass	2.21
		Inner_1RB_Right	21.04	23.25	33	Pass	2.21
		Edge_Full_Left	19.31	21.52	33	Pass	2.21
		Edge_Full_Right	19.39	21.6	33	Pass	2.21
		Edge_1RB_Left	19.3	21.51	33	Pass	2.21
		Edge_1RB_Right	19.38	21.59	33	Pass	2.21
		Outer_Full	19.79	22	33	Pass	2.21
DFT-s-OFDM PI/2 BPSK	2679.99MHz	Inner_Full	19.64	21.85	33	Pass	2.21
		Inner_1RB_Left	19.38	21.59	33	Pass	2.21
		Inner_1RB_Right	19.42	21.63	33	Pass	2.21
		Edge_Full_Left	22.07	24.28	33	Pass	2.21
		Edge_Full_Right	22.16	24.37	33	Pass	2.21
		Edge_1RB_Left	21.91	24.12	33	Pass	2.21
		Edge_1RB_Right	22.06	24.27	33	Pass	2.21
		Outer_Full	22.39	24.6	33	Pass	2.21
DFT-s-OFDM QPSK		Inner_Full	22.69	24.9	33	Pass	2.21
		Inner_1RB_Left	22.42	24.63	33	Pass	2.21
		Inner_1RB_Right	22.45	24.66	33	Pass	2.21
		Edge_Full_Left	21.45	23.66	33	Pass	2.21
		Edge_Full_Right	21.62	23.83	33	Pass	2.21



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		Edge_1RB_Left	21.46	23.67	33	Pass	2.21
		Edge_1RB_Right	21.55	23.76	33	Pass	2.21
		Outer_Full	21.84	24.05	33	Pass	2.21
		Inner_Full	22.71	24.92	33	Pass	2.21
DFT-s-OFDM 16QAM		Inner_1RB_Left	22.44	24.65	33	Pass	2.21
		Inner_1RB_Right	22.54	24.75	33	Pass	2.21
		Edge_Full_Left	20.25	22.46	33	Pass	2.21
		Edge_Full_Right	20.36	22.57	33	Pass	2.21
		Edge_1RB_Left	20.33	22.54	33	Pass	2.21
		Edge_1RB_Right	20.39	22.6	33	Pass	2.21
		Outer_Full	20.83	23.04	33	Pass	2.21
		Inner_Full	21.75	23.96	33	Pass	2.21
		Inner_1RB_Left	21.25	23.46	33	Pass	2.21
		Inner_1RB_Right	21.36	23.57	33	Pass	2.21
		Edge_Full_Left	20.08	22.29	33	Pass	2.21
		Edge_Full_Right	20.1	22.31	33	Pass	2.21
DFT-s-OFDM 64QAM		Edge_1RB_Left	20.11	22.32	33	Pass	2.21
		Edge_1RB_Right	20.05	22.26	33	Pass	2.21
		Outer_Full	20.36	22.57	33	Pass	2.21
		Inner_Full	20.31	22.52	33	Pass	2.21
		Inner_1RB_Left	20.03	22.24	33	Pass	2.21
		Inner_1RB_Right	20.12	22.33	33	Pass	2.21
		Edge_Full_Left	19.46	21.67	33	Pass	2.21
		Edge_Full_Right	19.54	21.75	33	Pass	2.21
		Edge_1RB_Left	19.6	21.81	33	Pass	2.21
		Edge_1RB_Right	19.61	21.82	33	Pass	2.21
		Outer_Full	19.84	22.05	33	Pass	2.21
		Inner_Full	21.21	23.42	33	Pass	2.21
CP-OFDM QPSK		Inner_1RB_Left	20.91	23.12	33	Pass	2.21
		Inner_1RB_Right	21	23.21	33	Pass	2.21
		Edge_Full_Left	19.43	21.64	33	Pass	2.21
		Edge_Full_Right	19.44	21.65	33	Pass	2.21
		Edge_1RB_Left	19.59	21.8	33	Pass	2.21
CP-OFDM 16QAM							



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CP-OFDM 64QAM	Edge_1RB_Right	19.65	21.86	33	Pass	2.21
	Outer_Full	19.89	22.1	33	Pass	2.21
	Inner_Full	20.74	22.95	33	Pass	2.21
	Inner_1RB_Left	20.52	22.73	33	Pass	2.21
	Inner_1RB_Right	20.58	22.79	33	Pass	2.21
	Edge_Full_Left	19.01	21.22	33	Pass	2.21
	Edge_Full_Right	19.06	21.27	33	Pass	2.21
	Edge_1RB_Left	18.78	20.99	33	Pass	2.21
	Edge_1RB_Right	18.95	21.16	33	Pass	2.21
	Outer_Full	19.37	21.58	33	Pass	2.21
	Inner_Full	19.39	21.6	33	Pass	2.21
	Inner_1RB_Left	18.72	20.93	33	Pass	2.21
	Inner_1RB_Right	18.89	21.1	33	Pass	2.21



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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	2592.99	Outer_Full	20	LV	7.1	0.0038	Pass
					HV	-2.45	-0.0013	Pass
				-30	NV	2.71	0.0014	Pass
				-20	NV	-5.24	-0.0028	Pass
				-10	NV	3.19	0.0017	Pass
				0	NV	7.01	0.0037	Pass
				10	NV	2.79	0.0015	Pass
				20	NV	-3.97	-0.0021	Pass
				30	NV	-6.03	-0.0032	Pass
				40	NV	2.2	0.0012	Pass
				50	NV	6.57	0.0035	Pass
	CP-OFDM QPSK			20	LV	5.55	0.0030	Pass
					HV	-8.63	-0.0046	Pass
				-30	NV	-3.91	-0.0021	Pass
				-20	NV	4.04	0.0021	Pass
				-10	NV	2.47	0.0013	Pass
				0	NV	-4.23	-0.0023	Pass
				10	NV	2.7	0.0014	Pass
				20	NV	-5.77	-0.0031	Pass
				30	NV	-8.63	-0.0046	Pass
				40	NV	3.02	0.0016	Pass
50	NV	-4.82	-0.0026	Pass				
15MHz	DFT-s-OFDM PI/2 BPSK	2592.99	Outer_Full	20	LV	5.78	0.0031	Pass
					HV	-9.17	-0.0049	Pass
				-30	NV	-3.78	-0.0020	Pass
				-20	NV	-2.81	-0.0015	Pass
				-10	NV	-8.9	-0.0047	Pass
				0	NV	-4.33	-0.0023	Pass
				10	NV	-3.69	-0.0020	Pass



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				20	NV	8.74	0.0046	Pass
				30	NV	-6.79	-0.0036	Pass
CP-OFDM QPSK				40	NV	8.29	0.0044	Pass
				50	NV	7.54	0.0040	Pass
				20	LV	3.94	0.0021	Pass
					HV	2.04	0.0011	Pass
				-30	NV	-8.44	-0.0045	Pass
				-20	NV	2.83	0.0015	Pass
				-10	NV	7.4	0.0039	Pass
				0	NV	-2.92	-0.0016	Pass
				10	NV	-9.41	-0.0050	Pass
				20	NV	6.08	0.0032	Pass
				30	NV	-5.04	-0.0027	Pass
				40	NV	2.47	0.0013	Pass
				50	NV	-4.86	-0.0026	Pass
20MHz	DFT-s-OFDM PI/2 BPSK	2592.99	Outer_Full	20	LV	3.72	0.0020	Pass
					HV	-6.94	-0.0037	Pass
				-30	NV	-9.48	-0.0050	Pass
				-20	NV	3.12	0.0017	Pass
				-10	NV	2.76	0.0015	Pass
				0	NV	8.81	0.0047	Pass
				10	NV	9.84	0.0052	Pass
				20	NV	-5.86	-0.0031	Pass
				30	NV	2.02	0.0011	Pass
				40	NV	8.06	0.0043	Pass
				50	NV	-3.79	-0.0020	Pass
	CP-OFDM QPSK			20	LV	2.96	0.0016	Pass
					HV	-5	-0.0027	Pass
				-30	NV	-4.54	-0.0024	Pass
				-20	NV	-4.8	-0.0026	Pass
				-10	NV	3.73	0.0020	Pass
				0	NV	-9.43	-0.0050	Pass
				10	NV	6.97	0.0037	Pass
				20	NV	9.13	0.0049	Pass



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				30	NV	5.02	0.0027	Pass
				40	NV	-4.29	-0.0023	Pass
				50	NV	3.02	0.0016	Pass

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Field Strength of Spurious Radiation

LTE Band 41-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
5002.02	-53.08	-25	-28.08	-58.96	4.26	10.14	Horizontal	Pass
7503.03	-49.44	-25	-24.44	-56.965	4.22	11.74	Horizontal	Pass
10004.04	-48.1	-25	-23.1	-56.05	5.08	13.03	Horizontal	Pass
5002.02	-53.31	-25	-28.31	-59.19	4.26	10.14	Vertical	Pass
7503.03	-49.61	-25	-24.61	-57.135	4.22	11.74	Vertical	Pass
10004.04	-48.82	-25	-23.82	-56.77	5.08	13.03	Vertical	Pass

LTE Band 41-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
5095.98	-52.97	-25	-27.97	-58.85	4.26	10.14	Horizontal	Pass
7643.97	-51.3	-25	-26.3	-58.825	4.22	11.74	Horizontal	Pass
10191.96	-48.17	-25	-23.17	-56.12	5.08	13.03	Horizontal	Pass
5095.98	-53.36	-25	-28.36	-59.24	4.26	10.14	Vertical	Pass
7643.97	-50.75	-25	-25.75	-58.275	4.22	11.74	Vertical	Pass
10191.96	-47.88	-25	-22.88	-55.83	5.08	13.03	Vertical	Pass

LTE Band 41-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
5190	-55.03	-25	-30.03	-60.91	4.26	10.14	Horizontal	Pass
7785	-51.07	-25	-26.07	-58.595	4.22	11.74	Horizontal	Pass
10380	-48.12	-25	-23.12	-56.07	5.08	13.03	Horizontal	Pass
5190	-55.24	-25	-30.24	-61.12	4.26	10.14	Vertical	Pass
7785	-50.9	-25	-25.9	-58.425	4.22	11.74	Vertical	Pass
10380	-50.14	-25	-25.14	-58.09	5.08	13.03	Vertical	Pass

---End of Attachment---



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