

CP-OFDM QPSK	2520	Edge_1RB_Left	22.27	/	/	23.57	/	/	<=33	Pass
		Edge_1RB_Right	22.26	/	/	23.56	/	/	<=33	Pass
		Outer_Full	22.51	/	/	23.81	/	/	<=33	Pass
		Inner_Full	23.94	/	/	25.24	/	/	<=33	Pass
		Inner_1RB_Left	23.95	/	/	25.25	/	/	<=33	Pass
	Inner_1RB_Right	23.85	/	/	25.15	/	/	<=33	Pass	
	2535	Edge_1RB_Left	22.18	/	/	23.48	/	/	<=33	Pass
		Edge_1RB_Right	21.90	/	/	23.20	/	/	<=33	Pass
		Outer_Full	22.22	/	/	23.52	/	/	<=33	Pass
		Inner_Full	23.76	/	/	25.06	/	/	<=33	Pass
		Inner_1RB_Left	23.85	/	/	25.15	/	/	<=33	Pass
	Inner_1RB_Right	23.49	/	/	24.79	/	/	<=33	Pass	
	2550	Edge_1RB_Left	22.27	/	/	23.57	/	/	<=33	Pass
		Edge_1RB_Right	21.99	/	/	23.29	/	/	<=33	Pass
		Outer_Full	22.25	/	/	23.55	/	/	<=33	Pass
Inner_Full		23.66	/	/	24.96	/	/	<=33	Pass	
Inner_1RB_Left		23.93	/	/	25.23	/	/	<=33	Pass	
Inner_1RB_Right	23.63	/	/	24.93	/	/	<=33	Pass		
CP-OFDM 16 QAM	2520	Edge_1RB_Left	22.55	/	/	23.85	/	/	<=33	Pass
		Edge_1RB_Right	22.49	/	/	23.79	/	/	<=33	Pass
		Outer_Full	22.54	/	/	23.84	/	/	<=33	Pass
		Inner_Full	23.45	/	/	24.75	/	/	<=33	Pass
		Inner_1RB_Left	23.39	/	/	24.69	/	/	<=33	Pass
	Inner_1RB_Right	23.39	/	/	24.69	/	/	<=33	Pass	
	2535	Edge_1RB_Left	22.38	/	/	23.68	/	/	<=33	Pass
		Edge_1RB_Right	22.21	/	/	23.51	/	/	<=33	Pass
		Outer_Full	22.20	/	/	23.50	/	/	<=33	Pass
		Inner_Full	23.23	/	/	24.53	/	/	<=33	Pass
		Inner_1RB_Left	23.32	/	/	24.62	/	/	<=33	Pass
	Inner_1RB_Right	23.10	/	/	24.40	/	/	<=33	Pass	
	2550	Edge_1RB_Left	22.51	/	/	23.81	/	/	<=33	Pass
		Edge_1RB_Right	22.18	/	/	23.48	/	/	<=33	Pass
		Outer_Full	22.32	/	/	23.62	/	/	<=33	Pass
Inner_Full		23.23	/	/	24.53	/	/	<=33	Pass	
Inner_1RB_Left		23.41	/	/	24.71	/	/	<=33	Pass	
Inner_1RB_Right	23.03	/	/	24.33	/	/	<=33	Pass		
CP-OFDM 64 QAM	2520	Edge_1RB_Left	22.11	/	/	23.41	/	/	<=33	Pass
		Edge_1RB_Right	22.06	/	/	23.36	/	/	<=33	Pass
		Outer_Full	22.04	/	/	23.34	/	/	<=33	Pass
		Inner_Full	21.94	/	/	23.24	/	/	<=33	Pass
		Inner_1RB_Left	22.06	/	/	23.36	/	/	<=33	Pass
	Inner_1RB_Right	22.05	/	/	23.35	/	/	<=33	Pass	
	2535	Edge_1RB_Left	21.97	/	/	23.27	/	/	<=33	Pass
		Edge_1RB_Right	21.68	/	/	22.98	/	/	<=33	Pass
		Outer_Full	21.80	/	/	23.10	/	/	<=33	Pass
		Inner_Full	21.72	/	/	23.02	/	/	<=33	Pass
		Inner_1RB_Left	21.98	/	/	23.28	/	/	<=33	Pass
	Inner_1RB_Right	21.69	/	/	22.99	/	/	<=33	Pass	
	2550	Edge_1RB_Left	22.10	/	/	23.40	/	/	<=33	Pass



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CP-OFDM 256 QAM		Edge_1RB_Right	21.79	/	/	23.09	/	/	<=33	Pass	
		Outer_Full	21.92	/	/	23.22	/	/	<=33	Pass	
		Inner_Full	21.76	/	/	23.06	/	/	<=33	Pass	
		Inner_1RB_Left	22.07	/	/	23.37	/	/	<=33	Pass	
		Inner_1RB_Right	21.77	/	/	23.07	/	/	<=33	Pass	
	2520	Edge_1RB_Left	19.11	/	/	20.41	/	/	<=33	Pass	
		Edge_1RB_Right	18.96	/	/	20.26	/	/	<=33	Pass	
		Outer_Full	19.00	/	/	20.30	/	/	<=33	Pass	
		Inner_Full	18.98	/	/	20.28	/	/	<=33	Pass	
		Inner_1RB_Left	19.13	/	/	20.43	/	/	<=33	Pass	
		Inner_1RB_Right	18.92	/	/	20.22	/	/	<=33	Pass	
		2535	Edge_1RB_Left	18.87	/	/	20.17	/	/	<=33	Pass
			Edge_1RB_Right	18.71	/	/	20.01	/	/	<=33	Pass
			Outer_Full	18.66	/	/	19.96	/	/	<=33	Pass
			Inner_Full	18.72	/	/	20.02	/	/	<=33	Pass
	Inner_1RB_Left		18.90	/	/	20.20	/	/	<=33	Pass	
	2550	Inner_1RB_Right	18.70	/	/	20.00	/	/	<=33	Pass	
		Edge_1RB_Left	18.92	/	/	20.22	/	/	<=33	Pass	
		Edge_1RB_Right	18.80	/	/	20.10	/	/	<=33	Pass	
		Outer_Full	18.81	/	/	20.11	/	/	<=33	Pass	
Inner_Full		18.79	/	/	20.09	/	/	<=33	Pass		
Inner_1RB_Left		18.99	/	/	20.29	/	/	<=33	Pass		
Inner_1RB_Right		18.79	/	/	20.09	/	/	<=33	Pass		

Note1: Antenna Gain: Ant1: 1.30dBi;

Note2: EIRP=Conducted Power+Antenna Gain



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1.15 30k_SISO_50MHz_NTNV_EIRP

1.15.1 Test Result

5G NR n7 SCS=30kHz SISO 50MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2525	Edge_1RB_Left	24.78	/	/	26.08	/	/	<=33	Pass
		Edge_1RB_Right	24.71	/	/	26.01	/	/	<=33	Pass
		Outer_Full	24.87	/	/	26.17	/	/	<=33	Pass
		Inner_Full	25.38	/	/	26.68	/	/	<=33	Pass
		Inner_1RB_Left	25.31	/	/	26.61	/	/	<=33	Pass
		Inner_1RB_Right	25.17	/	/	26.47	/	/	<=33	Pass
	2535	Edge_1RB_Left	24.81	/	/	26.11	/	/	<=33	Pass
		Edge_1RB_Right	23.15	/	/	24.45	/	/	<=33	Pass
		Outer_Full	23.24	/	/	24.54	/	/	<=33	Pass
		Inner_Full	23.29	/	/	24.59	/	/	<=33	Pass
		Inner_1RB_Left	23.40	/	/	24.70	/	/	<=33	Pass
		Inner_1RB_Right	23.08	/	/	24.38	/	/	<=33	Pass
	2545	Edge_1RB_Left	24.84	/	/	26.14	/	/	<=33	Pass
		Edge_1RB_Right	24.57	/	/	25.87	/	/	<=33	Pass
		Outer_Full	24.14	/	/	25.44	/	/	<=33	Pass
		Inner_Full	24.26	/	/	25.56	/	/	<=33	Pass
		Inner_1RB_Left	25.02	/	/	26.32	/	/	<=33	Pass
		Inner_1RB_Right	24.00	/	/	25.30	/	/	<=33	Pass
DFT-s-OFDM QPSK	2525	Edge_1RB_Left	24.25	/	/	25.55	/	/	<=33	Pass
		Edge_1RB_Right	24.16	/	/	25.46	/	/	<=33	Pass
		Outer_Full	24.39	/	/	25.69	/	/	<=33	Pass
		Inner_Full	25.45	/	/	26.75	/	/	<=33	Pass
		Inner_1RB_Left	25.18	/	/	26.48	/	/	<=33	Pass
		Inner_1RB_Right	25.05	/	/	26.35	/	/	<=33	Pass
	2535	Edge_1RB_Left	24.28	/	/	25.58	/	/	<=33	Pass
		Edge_1RB_Right	23.09	/	/	24.39	/	/	<=33	Pass
		Outer_Full	23.24	/	/	24.54	/	/	<=33	Pass
		Inner_Full	23.35	/	/	24.65	/	/	<=33	Pass
		Inner_1RB_Left	23.37	/	/	24.67	/	/	<=33	Pass
		Inner_1RB_Right	23.12	/	/	24.42	/	/	<=33	Pass
	2545	Edge_1RB_Left	24.33	/	/	25.63	/	/	<=33	Pass
		Edge_1RB_Right	24.02	/	/	25.32	/	/	<=33	Pass
		Outer_Full	24.15	/	/	25.45	/	/	<=33	Pass
		Inner_Full	25.23	/	/	26.53	/	/	<=33	Pass
		Inner_1RB_Left	25.04	/	/	26.34	/	/	<=33	Pass
		Inner_1RB_Right	24.88	/	/	26.18	/	/	<=33	Pass
DFT-s-OFDM 16 QAM	2525	Edge_1RB_Left	23.48	/	/	24.78	/	/	<=33	Pass
		Edge_1RB_Right	23.33	/	/	24.63	/	/	<=33	Pass
		Outer_Full	23.40	/	/	24.70	/	/	<=33	Pass
		Inner_Full	24.48	/	/	25.78	/	/	<=33	Pass
		Inner_1RB_Left	24.52	/	/	25.82	/	/	<=33	Pass



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	2535	Inner_1RB_Right	24.34	/	/	25.64	/	/	<=33	Pass
		Edge_1RB_Left	23.52	/	/	24.82	/	/	<=33	Pass
		Edge_1RB_Right	23.30	/	/	24.60	/	/	<=33	Pass
		Outer_Full	23.29	/	/	24.59	/	/	<=33	Pass
		Inner_Full	23.30	/	/	24.60	/	/	<=33	Pass
		Inner_1RB_Left	23.55	/	/	24.85	/	/	<=33	Pass
		Inner_1RB_Right	23.26	/	/	24.56	/	/	<=33	Pass
	2545	Edge_1RB_Left	23.54	/	/	24.84	/	/	<=33	Pass
		Edge_1RB_Right	23.22	/	/	24.52	/	/	<=33	Pass
		Outer_Full	23.33	/	/	24.63	/	/	<=33	Pass
		Inner_Full	24.22	/	/	25.52	/	/	<=33	Pass
		Inner_1RB_Left	24.59	/	/	25.89	/	/	<=33	Pass
		Inner_1RB_Right	24.32	/	/	25.62	/	/	<=33	Pass
		Edge_1RB_Left	22.98	/	/	24.28	/	/	<=33	Pass
DFT-s-OFDM 64 QAM	2525	Edge_1RB_Right	22.89	/	/	24.19	/	/	<=33	Pass
		Outer_Full	22.96	/	/	24.26	/	/	<=33	Pass
		Inner_Full	22.87	/	/	24.17	/	/	<=33	Pass
		Inner_1RB_Left	23.02	/	/	24.32	/	/	<=33	Pass
		Inner_1RB_Right	22.98	/	/	24.28	/	/	<=33	Pass
		Edge_1RB_Left	23.01	/	/	24.31	/	/	<=33	Pass
		Edge_1RB_Right	22.85	/	/	24.15	/	/	<=33	Pass
	2535	Outer_Full	22.76	/	/	24.06	/	/	<=33	Pass
		Inner_Full	22.82	/	/	24.12	/	/	<=33	Pass
		Inner_1RB_Left	23.10	/	/	24.40	/	/	<=33	Pass
		Inner_1RB_Right	22.80	/	/	24.10	/	/	<=33	Pass
		Edge_1RB_Left	23.06	/	/	24.36	/	/	<=33	Pass
		Edge_1RB_Right	22.77	/	/	24.07	/	/	<=33	Pass
		Outer_Full	22.75	/	/	24.05	/	/	<=33	Pass
2545	Inner_Full	22.82	/	/	24.12	/	/	<=33	Pass	
	Inner_1RB_Left	23.11	/	/	24.41	/	/	<=33	Pass	
	Inner_1RB_Right	22.80	/	/	24.10	/	/	<=33	Pass	
	Edge_1RB_Left	20.86	/	/	22.16	/	/	<=33	Pass	
	Edge_1RB_Right	20.66	/	/	21.96	/	/	<=33	Pass	
	Outer_Full	20.91	/	/	22.21	/	/	<=33	Pass	
	Inner_Full	20.83	/	/	22.13	/	/	<=33	Pass	
DFT-s-OFDM 256 QAM	2525	Inner_1RB_Left	20.86	/	/	22.16	/	/	<=33	Pass
		Inner_1RB_Right	20.66	/	/	21.96	/	/	<=33	Pass
		Edge_1RB_Left	20.80	/	/	22.10	/	/	<=33	Pass
		Edge_1RB_Right	20.64	/	/	21.94	/	/	<=33	Pass
		Outer_Full	20.68	/	/	21.98	/	/	<=33	Pass
		Inner_Full	20.79	/	/	22.09	/	/	<=33	Pass
		Inner_1RB_Left	20.77	/	/	22.07	/	/	<=33	Pass
	2535	Inner_1RB_Right	20.59	/	/	21.89	/	/	<=33	Pass
		Edge_1RB_Left	20.85	/	/	22.15	/	/	<=33	Pass
		Edge_1RB_Right	20.61	/	/	21.91	/	/	<=33	Pass
		Outer_Full	20.69	/	/	21.99	/	/	<=33	Pass
		Inner_Full	20.75	/	/	22.05	/	/	<=33	Pass
		Inner_1RB_Left	20.77	/	/	22.07	/	/	<=33	Pass
		Inner_1RB_Right	20.61	/	/	21.91	/	/	<=33	Pass



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CP-OFDM QPSK	2525	Edge_1RB_Left	22.17	/	/	23.47	/	/	<=33	Pass
		Edge_1RB_Right	22.12	/	/	23.42	/	/	<=33	Pass
		Outer_Full	22.38	/	/	23.68	/	/	<=33	Pass
		Inner_Full	23.75	/	/	25.05	/	/	<=33	Pass
		Inner_1RB_Left	23.83	/	/	25.13	/	/	<=33	Pass
	Inner_1RB_Right	23.66	/	/	24.96	/	/	<=33	Pass	
	2535	Edge_1RB_Left	22.23	/	/	23.53	/	/	<=33	Pass
		Edge_1RB_Right	22.06	/	/	23.36	/	/	<=33	Pass
		Outer_Full	22.19	/	/	23.49	/	/	<=33	Pass
		Inner_Full	23.73	/	/	25.03	/	/	<=33	Pass
		Inner_1RB_Left	23.88	/	/	25.18	/	/	<=33	Pass
	Inner_1RB_Right	23.52	/	/	24.82	/	/	<=33	Pass	
	2545	Edge_1RB_Left	22.20	/	/	23.50	/	/	<=33	Pass
		Edge_1RB_Right	21.95	/	/	23.25	/	/	<=33	Pass
		Outer_Full	22.21	/	/	23.51	/	/	<=33	Pass
Inner_Full		23.64	/	/	24.94	/	/	<=33	Pass	
Inner_1RB_Left		23.85	/	/	25.15	/	/	<=33	Pass	
Inner_1RB_Right	23.56	/	/	24.86	/	/	<=33	Pass		
CP-OFDM 16 QAM	2525	Edge_1RB_Left	22.40	/	/	23.70	/	/	<=33	Pass
		Edge_1RB_Right	22.39	/	/	23.69	/	/	<=33	Pass
		Outer_Full	22.42	/	/	23.72	/	/	<=33	Pass
		Inner_Full	23.44	/	/	24.74	/	/	<=33	Pass
		Inner_1RB_Left	23.32	/	/	24.62	/	/	<=33	Pass
	Inner_1RB_Right	23.25	/	/	24.55	/	/	<=33	Pass	
	2535	Edge_1RB_Left	22.50	/	/	23.80	/	/	<=33	Pass
		Edge_1RB_Right	22.25	/	/	23.55	/	/	<=33	Pass
		Outer_Full	22.25	/	/	23.55	/	/	<=33	Pass
		Inner_Full	23.32	/	/	24.62	/	/	<=33	Pass
		Inner_1RB_Left	23.39	/	/	24.69	/	/	<=33	Pass
	Inner_1RB_Right	23.12	/	/	24.42	/	/	<=33	Pass	
	2545	Edge_1RB_Left	22.46	/	/	23.76	/	/	<=33	Pass
		Edge_1RB_Right	22.14	/	/	23.44	/	/	<=33	Pass
		Outer_Full	22.29	/	/	23.59	/	/	<=33	Pass
Inner_Full		23.21	/	/	24.51	/	/	<=33	Pass	
Inner_1RB_Left		23.38	/	/	24.68	/	/	<=33	Pass	
Inner_1RB_Right	23.03	/	/	24.33	/	/	<=33	Pass		
CP-OFDM 64 QAM	2525	Edge_1RB_Left	21.95	/	/	23.25	/	/	<=33	Pass
		Edge_1RB_Right	21.87	/	/	23.17	/	/	<=33	Pass
		Outer_Full	21.78	/	/	23.08	/	/	<=33	Pass
		Inner_Full	21.88	/	/	23.18	/	/	<=33	Pass
		Inner_1RB_Left	22.00	/	/	23.30	/	/	<=33	Pass
	Inner_1RB_Right	21.86	/	/	23.16	/	/	<=33	Pass	
	2535	Edge_1RB_Left	22.02	/	/	23.32	/	/	<=33	Pass
		Edge_1RB_Right	21.78	/	/	23.08	/	/	<=33	Pass
		Outer_Full	21.79	/	/	23.09	/	/	<=33	Pass
		Inner_Full	21.77	/	/	23.07	/	/	<=33	Pass
		Inner_1RB_Left	22.00	/	/	23.30	/	/	<=33	Pass
	Inner_1RB_Right	21.80	/	/	23.10	/	/	<=33	Pass	
	2545	Edge_1RB_Left	22.02	/	/	23.32	/	/	<=33	Pass



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CP-OFDM 256 QAM		Edge_1RB_Right	21.75	/	/	23.05	/	/	<=33	Pass	
		Outer_Full	21.72	/	/	23.02	/	/	<=33	Pass	
		Inner_Full	21.75	/	/	23.05	/	/	<=33	Pass	
		Inner_1RB_Left	21.97	/	/	23.27	/	/	<=33	Pass	
		Inner_1RB_Right	21.75	/	/	23.05	/	/	<=33	Pass	
	2525	Edge_1RB_Left	18.93	/	/	20.23	/	/	<=33	Pass	
		Edge_1RB_Right	18.78	/	/	20.08	/	/	<=33	Pass	
		Outer_Full	18.89	/	/	20.19	/	/	<=33	Pass	
		Inner_Full	18.84	/	/	20.14	/	/	<=33	Pass	
		Inner_1RB_Left	18.97	/	/	20.27	/	/	<=33	Pass	
		Inner_1RB_Right	18.81	/	/	20.11	/	/	<=33	Pass	
		2535	Edge_1RB_Left	18.91	/	/	20.21	/	/	<=33	Pass
			Edge_1RB_Right	18.70	/	/	20.00	/	/	<=33	Pass
			Outer_Full	18.65	/	/	19.95	/	/	<=33	Pass
			Inner_Full	18.70	/	/	20.00	/	/	<=33	Pass
	Inner_1RB_Left		18.88	/	/	20.18	/	/	<=33	Pass	
	2545	Inner_1RB_Right	18.68	/	/	19.98	/	/	<=33	Pass	
		Edge_1RB_Left	18.84	/	/	20.14	/	/	<=33	Pass	
		Edge_1RB_Right	18.76	/	/	20.06	/	/	<=33	Pass	
		Outer_Full	18.69	/	/	19.99	/	/	<=33	Pass	
Inner_Full		18.68	/	/	19.98	/	/	<=33	Pass		
Inner_1RB_Left		18.88	/	/	20.18	/	/	<=33	Pass		
Inner_1RB_Right		18.77	/	/	20.07	/	/	<=33	Pass		
Note1: Antenna Gain: Ant1: 1.30dBi;											
Note2: EIRP=Conducted Power+Antenna Gain											



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2. Frequency Stability

2.1 15k_SISO_5MHz

2.1.1 Test Result

5G NR n7 SCS=15kHz SISO 5MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	0.80	0.0003	>=-2.5 & <=2.5	Pass
			-10	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
			30	NV	-9.10	-0.0036	>=-2.5 & <=2.5	Pass
			40	NV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
50	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
50	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
50	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
0	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass			



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Table with 8 columns: Test Item, Modulation, Bandwidth, Subcarrier, Power Spectral Density, Peak-to-Average Power Ratio, and Pass/Fail status. Rows include DFT-s-OFDM 256 QAM, CP-OFDM QPSK, CP-OFDM 16 QAM, and CP-OFDM 64 QAM.



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CP-OFDM 256 QAM	2535	Outer_Full	20	LV	-6.20	-0.0024	≥ -2.5 & ≤ 2.5	Pass
				HV	-2.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
			-30	NV	-5.70	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-5.60	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-2.40	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-3.50	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-2.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.20	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-3.40	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-3.60	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-3.20	-0.0013	≥ -2.5 & ≤ 2.5	Pass



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2.2 15k_SISO_10MHz

2.2.1 Test Result

5G NR n7 SCS=15kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
50	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
50	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-1.40	-0.0006	>=-2.5 & <=2.5	Pass
				HV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	0.50	0.0002	>=-2.5 & <=2.5	Pass
			-20	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
50	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-1.40	-0.0006	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-8.60	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass



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			30	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass			
			40	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass			
			50	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass			
				HV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass			
						-30	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
						-20	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
						-10	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
						0	NV	3.10	0.0012	>=-2.5 & <=2.5	Pass
						10	NV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass
						20	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
						30	NV	-2.20	-0.0009	>=-2.5 & <=2.5	Pass
						40	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
						50	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2535	Outer_Full	20	LV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
							HV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
						-30	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
						-20	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
						-10	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
						0	NV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
						10	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
						20	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
						30	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
						40	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
						50	NV	-8.90	-0.0035	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
							HV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass
						-30	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
						-20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
						-10	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
						0	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
						10	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
						20	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
						30	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
						40	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
						50	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
							HV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
						-30	NV	-9.40	-0.0037	>=-2.5 & <=2.5	Pass
						-20	NV	-9.80	-0.0039	>=-2.5 & <=2.5	Pass
						-10	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
						0	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
						10	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
						20	NV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
						30	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
						40	NV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
						50	NV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
							HV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass



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			-30	NV	-0.80	-0.0003	>=-2.5 & <=2.5	Pass
			-20	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass



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2.3 15k_SISO_15MHz

2.3.1 Test Result

5G NR n7 SCS=15kHz SISO 15MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	1.40	0.0006	>=-2.5 & <=2.5	Pass
				HV	-0.50	-0.0002	>=-2.5 & <=2.5	Pass
			-30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-2.20	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-2.20	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-8.40	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-9.10	-0.0036	>=-2.5 & <=2.5	Pass
			10	NV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-10.30	-0.0041	>=-2.5 & <=2.5	Pass



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			30	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass			
			40	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass			
			50	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	2.00	0.0008	>=-2.5 & <=2.5	Pass			
				HV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass			
			-30	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass			
			-20	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass			
			-10	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass			
			0	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass			
			10	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass			
			20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass			
			30	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass			
			40	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass			
			50	NV	2.80	0.0011	>=-2.5 & <=2.5	Pass			
			CP-OFDM QPSK	2535	Outer_Full	20	LV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
							HV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass
-30	NV	-3.30				-0.0013	>=-2.5 & <=2.5	Pass			
-20	NV	-4.20				-0.0017	>=-2.5 & <=2.5	Pass			
-10	NV	-2.10				-0.0008	>=-2.5 & <=2.5	Pass			
0	NV	-4.40				-0.0017	>=-2.5 & <=2.5	Pass			
10	NV	-3.70				-0.0015	>=-2.5 & <=2.5	Pass			
20	NV	-4.80				-0.0019	>=-2.5 & <=2.5	Pass			
30	NV	-5.10				-0.0020	>=-2.5 & <=2.5	Pass			
40	NV	-5.00				-0.0020	>=-2.5 & <=2.5	Pass			
50	NV	-2.80				-0.0011	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
							HV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass			
			-20	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass			
			-10	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass			
			0	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass			
			10	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass			
			20	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass			
			30	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass			
			40	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass			
			50	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass			
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
							HV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
-30	NV	-5.70				-0.0022	>=-2.5 & <=2.5	Pass			
-20	NV	-5.00				-0.0020	>=-2.5 & <=2.5	Pass			
-10	NV	-8.30				-0.0033	>=-2.5 & <=2.5	Pass			
0	NV	-5.70				-0.0022	>=-2.5 & <=2.5	Pass			
10	NV	-7.80				-0.0031	>=-2.5 & <=2.5	Pass			
20	NV	-6.90				-0.0027	>=-2.5 & <=2.5	Pass			
30	NV	-1.80				-0.0007	>=-2.5 & <=2.5	Pass			
40	NV	-2.20				-0.0009	>=-2.5 & <=2.5	Pass			
50	NV	-0.80				-0.0003	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
							HV	-0.70	-0.0003	>=-2.5 & <=2.5	Pass



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			-30	NV	-2.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-4.60	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-5.00	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-4.80	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-5.20	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-6.20	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-8.40	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-5.60	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-6.60	-0.0026	≥ -2.5 & ≤ 2.5	Pass



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2.4 15k_SISO_20MHz

2.4.1 Test Result

5G NR n7 SCS=15kHz SISO 20MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-9.40	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
			40	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
50	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
50	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	0.40	0.0002	>=-2.5 & <=2.5	Pass
50	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass



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Table with 8 columns: Test Item, Modulation, Bandwidth, Frequency, Power, Error Rate, Pass/Fail, and Remarks. Rows include DFT-s-OFDM 256 QAM, CP-OFDM QPSK, CP-OFDM 16 QAM, CP-OFDM 64 QAM, and CP-OFDM 256 QAM.



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			-30	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-9.10	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-9.40	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			50	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass



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2.5 15k_SISO_25MHz

2.5.1 Test Result

5G NR n7 SCS=15kHz SISO 25MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-1.40	-0.0006	>=-2.5 & <=2.5	Pass
				HV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	1.80	0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			40	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
50	NV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
50	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-10.20	-0.0040	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-8.40	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass



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			30	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass			
			40	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass			
			50	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	2.10	0.0008	>=-2.5 & <=2.5	Pass			
				HV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass			
						-30	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
						-20	NV	-0.30	-0.0001	>=-2.5 & <=2.5	Pass
						-10	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
						0	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
						10	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
						20	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
						30	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
						40	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
						50	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2535	Outer_Full	20	LV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
HV	-6.90	-0.0027					>=-2.5 & <=2.5	Pass			
						-30	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
						-20	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
						-10	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
						0	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
						10	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
						20	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
						30	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
						40	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
						50	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			HV	-2.40	-0.0009		>=-2.5 & <=2.5	Pass			
						-30	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
						-20	NV	-2.20	-0.0009	>=-2.5 & <=2.5	Pass
						-10	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
						0	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
						10	NV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass
						20	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
						30	NV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass
						40	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
						50	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
HV	-6.60	-0.0026					>=-2.5 & <=2.5	Pass			
						-30	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass
						-20	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
						-10	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
						0	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
						10	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
						20	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
						30	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
						40	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
						50	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			HV	-5.10	-0.0020		>=-2.5 & <=2.5	Pass			



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			-30	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	1.10	0.0004	>=-2.5 & <=2.5	Pass
			0	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	0.90	0.0004	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			50	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass



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2.6 15k_SISO_30MHz

2.6.1 Test Result

5G NR n7 SCS=15kHz SISO 30MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
50	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-8.50	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
50	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
				HV	1.80	0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	-2.20	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
			10	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass



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			30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass			
			40	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass			
			50	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	2.80	0.0011	>=-2.5 & <=2.5	Pass			
				HV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass			
			-30	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass			
			-20	NV	1.40	0.0006	>=-2.5 & <=2.5	Pass			
			-10	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass			
			0	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass			
			10	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass			
			20	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass			
			30	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass			
			40	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass			
			50	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass			
			CP-OFDM QPSK	2535	Outer_Full	20	LV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
							HV	1.30	0.0005	>=-2.5 & <=2.5	Pass
-30	NV	-5.50				-0.0022	>=-2.5 & <=2.5	Pass			
-20	NV	-4.60				-0.0018	>=-2.5 & <=2.5	Pass			
-10	NV	-3.20				-0.0013	>=-2.5 & <=2.5	Pass			
0	NV	-4.00				-0.0016	>=-2.5 & <=2.5	Pass			
10	NV	-4.30				-0.0017	>=-2.5 & <=2.5	Pass			
20	NV	-3.50				-0.0014	>=-2.5 & <=2.5	Pass			
30	NV	-2.60				-0.0010	>=-2.5 & <=2.5	Pass			
40	NV	-3.00				-0.0012	>=-2.5 & <=2.5	Pass			
50	NV	-3.40				-0.0013	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
							HV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass			
			-20	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass			
			-10	NV	-9.10	-0.0036	>=-2.5 & <=2.5	Pass			
			0	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass			
			10	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass			
			20	NV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass			
			30	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass			
			40	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass			
			50	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass			
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
							HV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
-30	NV	-2.00				-0.0008	>=-2.5 & <=2.5	Pass			
-20	NV	-4.90				-0.0019	>=-2.5 & <=2.5	Pass			
-10	NV	-6.20				-0.0024	>=-2.5 & <=2.5	Pass			
0	NV	-4.80				-0.0019	>=-2.5 & <=2.5	Pass			
10	NV	-5.00				-0.0020	>=-2.5 & <=2.5	Pass			
20	NV	-6.90				-0.0027	>=-2.5 & <=2.5	Pass			
30	NV	-7.80				-0.0031	>=-2.5 & <=2.5	Pass			
40	NV	-8.40				-0.0033	>=-2.5 & <=2.5	Pass			
50	NV	-8.40				-0.0033	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
							HV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass



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			-30	NV	-3.00	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-4.30	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-6.30	-0.0025	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-4.40	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.00	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.50	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.40	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-5.90	-0.0023	≥ -2.5 & ≤ 2.5	Pass
			50	NV	2.00	0.0008	≥ -2.5 & ≤ 2.5	Pass



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2.7 15k_SISO_40MHz

2.7.1 Test Result

5G NR n7 SCS=15kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			0	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	2.90	0.0011	>=-2.5 & <=2.5	Pass
				HV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
				HV	-0.50	-0.0002	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	2.90	0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-2.20	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-10.10	-0.0040	>=-2.5 & <=2.5	Pass
			0	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass



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			30	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass			
			40	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass			
			50	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-10.40	-0.0041	>=-2.5 & <=2.5	Pass			
				HV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass			
			-30	NV	2.80	0.0011	>=-2.5 & <=2.5	Pass			
			-20	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass			
			-10	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass			
			0	NV	-0.80	-0.0003	>=-2.5 & <=2.5	Pass			
			10	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass			
			20	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass			
			30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass			
			40	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass			
			50	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass			
			CP-OFDM QPSK	2535	Outer_Full	20	LV	1.00	0.0004	>=-2.5 & <=2.5	Pass
							HV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
-30	NV	-1.50				-0.0006	>=-2.5 & <=2.5	Pass			
-20	NV	1.20				0.0005	>=-2.5 & <=2.5	Pass			
-10	NV	-2.80				-0.0011	>=-2.5 & <=2.5	Pass			
0	NV	-4.70				-0.0019	>=-2.5 & <=2.5	Pass			
10	NV	-2.90				-0.0011	>=-2.5 & <=2.5	Pass			
20	NV	-5.40				-0.0021	>=-2.5 & <=2.5	Pass			
30	NV	-4.80				-0.0019	>=-2.5 & <=2.5	Pass			
40	NV	-2.20				-0.0009	>=-2.5 & <=2.5	Pass			
50	NV	-6.70				-0.0026	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
							HV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass			
			-20	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass			
			-10	NV	-0.60	-0.0002	>=-2.5 & <=2.5	Pass			
			0	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass			
			10	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass			
			20	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass			
			30	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass			
			40	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass			
			50	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass			
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
							HV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
-30	NV	-5.00				-0.0020	>=-2.5 & <=2.5	Pass			
-20	NV	-3.60				-0.0014	>=-2.5 & <=2.5	Pass			
-10	NV	-5.30				-0.0021	>=-2.5 & <=2.5	Pass			
0	NV	-8.60				-0.0034	>=-2.5 & <=2.5	Pass			
10	NV	-8.20				-0.0032	>=-2.5 & <=2.5	Pass			
20	NV	-5.40				-0.0021	>=-2.5 & <=2.5	Pass			
30	NV	-5.20				-0.0021	>=-2.5 & <=2.5	Pass			
40	NV	-7.70				-0.0030	>=-2.5 & <=2.5	Pass			
50	NV	-5.70				-0.0022	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	0.60	0.0002	>=-2.5 & <=2.5	Pass
							HV	-1.40	-0.0006	>=-2.5 & <=2.5	Pass



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			-30	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass



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2.8 15k_SISO_50MHz

2.8.1 Test Result

5G NR n7 SCS=15kHz SISO 50MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-8.60	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-10.80	-0.0043	>=-2.5 & <=2.5	Pass
			-20	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
50	NV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
				HV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	2.20	0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			40	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
50	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
				HV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	1.00	0.0004	>=-2.5 & <=2.5	Pass
			-20	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-0.70	-0.0003	>=-2.5 & <=2.5	Pass
			10	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
50	NV	-8.40	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass



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			30	NV	-3.40	-0.0013	≥ -2.5 & ≤ 2.5	Pass			
			40	NV	-3.50	-0.0014	≥ -2.5 & ≤ 2.5	Pass			
			50	NV	-3.60	-0.0014	≥ -2.5 & ≤ 2.5	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-6.40	-0.0025	≥ -2.5 & ≤ 2.5	Pass			
				HV	-4.00	-0.0016	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-4.50	-0.0018	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-1.80	-0.0007	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-1.90	-0.0007	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-4.20	-0.0017	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-3.60	-0.0014	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-3.60	-0.0014	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-4.60	-0.0018	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-3.70	-0.0015	≥ -2.5 & ≤ 2.5	Pass
						50	NV	-2.20	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			CP-OFDM QPSK	2535	Outer_Full	20	LV	-7.20	-0.0028	≥ -2.5 & ≤ 2.5	Pass
							HV	-4.90	-0.0019	≥ -2.5 & ≤ 2.5	Pass
						-30	NV	-5.30	-0.0021	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-7.00	-0.0028	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-7.30	-0.0029	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-5.20	-0.0021	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-5.50	-0.0022	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-5.10	-0.0020	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-6.20	-0.0024	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-5.00	-0.0020	≥ -2.5 & ≤ 2.5	Pass
						50	NV	-5.10	-0.0020	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-4.50	-0.0018	≥ -2.5 & ≤ 2.5	Pass
							HV	-2.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
						-30	NV	-3.30	-0.0013	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-2.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-3.60	-0.0014	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-3.70	-0.0015	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-5.00	-0.0020	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-6.30	-0.0025	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-6.40	-0.0025	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-4.20	-0.0017	≥ -2.5 & ≤ 2.5	Pass
						50	NV	-6.50	-0.0026	≥ -2.5 & ≤ 2.5	Pass
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-1.90	-0.0007	≥ -2.5 & ≤ 2.5	Pass
							HV	1.00	0.0004	≥ -2.5 & ≤ 2.5	Pass
						-30	NV	-0.90	-0.0004	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-2.60	-0.0010	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-1.10	-0.0004	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-2.40	-0.0009	≥ -2.5 & ≤ 2.5	Pass
						10	NV	1.00	0.0004	≥ -2.5 & ≤ 2.5	Pass
						20	NV	1.10	0.0004	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-3.70	-0.0015	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-3.80	-0.0015	≥ -2.5 & ≤ 2.5	Pass
						50	NV	-5.80	-0.0023	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	-4.20	-0.0017	≥ -2.5 & ≤ 2.5	Pass
							HV	-7.90	-0.0031	≥ -2.5 & ≤ 2.5	Pass



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			-30	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-8.60	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			50	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass



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2.9 30k_SISO_10MHz

2.9.1 Test Result

5G NR n7 SCS=30kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	2.20	0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	2.00	0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
			0	NV	2.90	0.0011	>=-2.5 & <=2.5	Pass
			10	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
			30	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
50	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	1.80	0.0007	>=-2.5 & <=2.5	Pass
				HV	3.10	0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	5.20	0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	1.10	0.0004	>=-2.5 & <=2.5	Pass
			0	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	6.40	0.0025	>=-2.5 & <=2.5	Pass
			40	NV	2.10	0.0008	>=-2.5 & <=2.5	Pass
50	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
				HV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			10	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
50	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	3.90	0.0015	>=-2.5 & <=2.5	Pass
			10	NV	4.50	0.0018	>=-2.5 & <=2.5	Pass
			20	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass



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			30	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass			
			40	NV	4.00	0.0016	>=-2.5 & <=2.5	Pass			
			50	NV	3.40	0.0013	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass			
				HV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass			
						-30	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
						-20	NV	4.30	0.0017	>=-2.5 & <=2.5	Pass
						-10	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
						0	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
						10	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
						20	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
						30	NV	-8.50	-0.0034	>=-2.5 & <=2.5	Pass
						40	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
						50	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2535	Outer_Full	20	LV	-13.10	-0.0052	>=-2.5 & <=2.5	Pass
							HV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
						-30	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
						-20	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
						-10	NV	2.90	0.0011	>=-2.5 & <=2.5	Pass
						0	NV	2.80	0.0011	>=-2.5 & <=2.5	Pass
						10	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
						20	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
						30	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
						40	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
						50	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
							HV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
						-30	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
						-20	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
						-10	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
						0	NV	4.40	0.0017	>=-2.5 & <=2.5	Pass
						10	NV	3.50	0.0014	>=-2.5 & <=2.5	Pass
						20	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass
						30	NV	2.90	0.0011	>=-2.5 & <=2.5	Pass
						40	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
						50	NV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
							HV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
						-30	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
						-20	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
						-10	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
						0	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
						10	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
						20	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
						30	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
						40	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
						50	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
							HV	-8.40	-0.0033	>=-2.5 & <=2.5	Pass



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			-30	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	0.70	0.0003	>=-2.5 & <=2.5	Pass
			-10	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	1.00	0.0004	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
			50	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass



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2.10 30k_SISO_15MHz

2.10.1 Test Result

Table with 9 columns: Modulation, Frequency (MHz), RB Allocation, Temp. (°C), Volt., Freq. Error (Hz), Freq. vs. rated (ppm) (Result, Limit), and Verdict. It contains test results for DFT-s-OFDM PI/2 BPSK, QPSK, 16 QAM, and 64 QAM at 2535 MHz.



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Table with columns for Test Item, Modulation, Bandwidth, Frequency, Power, Error Rate, and Result. Rows include DFT-s-OFDM 256 QAM, CP-OFDM QPSK, CP-OFDM 16 QAM, CP-OFDM 64 QAM, and CP-OFDM 256 QAM.



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			-30	NV	2.40	0.0009	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-4.40	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-5.50	-0.0022	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-3.30	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-2.30	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			20	NV	0.90	0.0004	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-6.20	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-5.20	-0.0021	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-4.40	-0.0017	≥ -2.5 & ≤ 2.5	Pass



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2.11 30k_SISO_20MHz

2.11.1 Test Result

5G NR n7 SCS=30kHz SISO 20MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
				HV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
50	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
50	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	1.80	0.0007	>=-2.5 & <=2.5	Pass
				HV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass
			-20	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	3.30	0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			40	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
50	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-9.60	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-2.20	-0.0009	>=-2.5 & <=2.5	Pass



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			30	NV	-2.20	-0.0009	>=-2.5 & <=2.5	Pass			
			40	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass			
			50	NV	0.20	0.0001	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass			
				HV	4.20	0.0017	>=-2.5 & <=2.5	Pass			
			-30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass			
			-20	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass			
			-10	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass			
			0	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass			
			10	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass			
			20	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass			
			30	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass			
			40	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass			
			50	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass			
			CP-OFDM QPSK	2535	Outer_Full	20	LV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
							HV	0.60	0.0002	>=-2.5 & <=2.5	Pass
-30	NV	-1.90				-0.0007	>=-2.5 & <=2.5	Pass			
-20	NV	3.80				0.0015	>=-2.5 & <=2.5	Pass			
-10	NV	-1.40				-0.0006	>=-2.5 & <=2.5	Pass			
0	NV	-5.50				-0.0022	>=-2.5 & <=2.5	Pass			
10	NV	-2.20				-0.0009	>=-2.5 & <=2.5	Pass			
20	NV	-1.40				-0.0006	>=-2.5 & <=2.5	Pass			
30	NV	-2.80				-0.0011	>=-2.5 & <=2.5	Pass			
40	NV	-0.30				-0.0001	>=-2.5 & <=2.5	Pass			
50	NV	-1.70				-0.0007	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
							HV	0.50	0.0002	>=-2.5 & <=2.5	Pass
			-30	NV	3.20	0.0013	>=-2.5 & <=2.5	Pass			
			-20	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass			
			-10	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass			
			0	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass			
			10	NV	2.80	0.0011	>=-2.5 & <=2.5	Pass			
			20	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass			
			30	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass			
			40	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass			
			50	NV	2.20	0.0009	>=-2.5 & <=2.5	Pass			
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
							HV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
-30	NV	-8.10				-0.0032	>=-2.5 & <=2.5	Pass			
-20	NV	-12.00				-0.0047	>=-2.5 & <=2.5	Pass			
-10	NV	-9.40				-0.0037	>=-2.5 & <=2.5	Pass			
0	NV	-9.20				-0.0036	>=-2.5 & <=2.5	Pass			
10	NV	-5.50				-0.0022	>=-2.5 & <=2.5	Pass			
20	NV	-7.20				-0.0028	>=-2.5 & <=2.5	Pass			
30	NV	-10.30				-0.0041	>=-2.5 & <=2.5	Pass			
40	NV	-10.00				-0.0039	>=-2.5 & <=2.5	Pass			
50	NV	-3.00				-0.0012	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
							HV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass



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			-30	NV	-4.40	-0.0017	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-3.20	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-5.10	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-7.70	-0.0030	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.40	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-4.60	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.60	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-2.40	-0.0009	≥ -2.5 & ≤ 2.5	Pass
			50	NV	1.20	0.0005	≥ -2.5 & ≤ 2.5	Pass



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2.12 30k_SISO_25MHz

2.12.1 Test Result

5G NR n7 SCS=30kHz SISO 25MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
				HV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			20	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	1.90	0.0007	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	1.10	0.0004	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-12.30	-0.0049	>=-2.5 & <=2.5	Pass



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			30	NV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass			
			40	NV	-10.10	-0.0040	>=-2.5 & <=2.5	Pass			
			50	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass			
				HV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass			
						-30	NV	4.30	0.0017	>=-2.5 & <=2.5	Pass
						-20	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
						-10	NV	-11.20	-0.0044	>=-2.5 & <=2.5	Pass
						0	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
						10	NV	-8.40	-0.0033	>=-2.5 & <=2.5	Pass
						20	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
						30	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
						40	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
						50	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2535	Outer_Full	20	LV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
HV	3.50	0.0014					>=-2.5 & <=2.5	Pass			
						-30	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
						-20	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
						-10	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
						0	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
						10	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
						20	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
						30	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
						40	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
						50	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			HV	-4.90	-0.0019		>=-2.5 & <=2.5	Pass			
						-30	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
						-20	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
						-10	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
						0	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
						10	NV	3.60	0.0014	>=-2.5 & <=2.5	Pass
						20	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
						30	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
						40	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
						50	NV	-8.50	-0.0034	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
HV	-2.00	-0.0008					>=-2.5 & <=2.5	Pass			
						-30	NV	-9.30	-0.0037	>=-2.5 & <=2.5	Pass
						-20	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
						-10	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
						0	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
						10	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
						20	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
						30	NV	-2.20	-0.0009	>=-2.5 & <=2.5	Pass
						40	NV	2.20	0.0009	>=-2.5 & <=2.5	Pass
						50	NV	3.20	0.0013	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			HV	1.90	0.0007		>=-2.5 & <=2.5	Pass			



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			-30	NV	2.20	0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	1.30	0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	2.80	0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-8.40	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass



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2.13 30k_SISO_30MHz

2.13.1 Test Result

5G NR n7 SCS=30kHz SISO 30MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	3.90	0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	3.50	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	6.90	0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
50	NV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	1.20	0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
50	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-11.20	-0.0044	>=-2.5 & <=2.5	Pass
			10	NV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass



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Table with columns for Test Item, Modulation, Bandwidth, Frequency, Power, Error Rate, and Result. Rows include DFT-s-OFDM 256 QAM, CP-OFDM QPSK, CP-OFDM 16 QAM, CP-OFDM 64 QAM, and CP-OFDM 256 QAM.



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			-30	NV	1.80	0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			50	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass



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Member of the SGS Group (SGS SA)

2.14 30k_SISO_40MHz

2.14.1 Test Result

5G NR n7 SCS=30kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
50	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-11.00	-0.0043	>=-2.5 & <=2.5	Pass
			30	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			40	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-8.60	-0.0034	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
50	NV	0.90	0.0004	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass



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			30	NV	-10.20	-0.0040	>=-2.5 & <=2.5	Pass			
			40	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass			
			50	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass			
				HV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass			
			-30	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass			
			-20	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass			
			-10	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass			
			0	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass			
			10	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass			
			20	NV	-2.20	-0.0009	>=-2.5 & <=2.5	Pass			
			30	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass			
			40	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass			
			50	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass			
			CP-OFDM QPSK	2535	Outer_Full	20	LV	-0.70	-0.0003	>=-2.5 & <=2.5	Pass
							HV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
-30	NV	-1.80				-0.0007	>=-2.5 & <=2.5	Pass			
-20	NV	-6.00				-0.0024	>=-2.5 & <=2.5	Pass			
-10	NV	-6.30				-0.0025	>=-2.5 & <=2.5	Pass			
0	NV	-6.30				-0.0025	>=-2.5 & <=2.5	Pass			
10	NV	-7.40				-0.0029	>=-2.5 & <=2.5	Pass			
20	NV	-4.60				-0.0018	>=-2.5 & <=2.5	Pass			
30	NV	-8.90				-0.0035	>=-2.5 & <=2.5	Pass			
40	NV	-3.60				-0.0014	>=-2.5 & <=2.5	Pass			
50	NV	-4.30				-0.0017	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-8.90	-0.0035	>=-2.5 & <=2.5	Pass
							HV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass			
			-20	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass			
			-10	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass			
			0	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass			
			10	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass			
			20	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass			
			30	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass			
			40	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass			
			50	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass			
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
							HV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
-30	NV	-3.60				-0.0014	>=-2.5 & <=2.5	Pass			
-20	NV	-3.00				-0.0012	>=-2.5 & <=2.5	Pass			
-10	NV	-4.70				-0.0019	>=-2.5 & <=2.5	Pass			
0	NV	-4.20				-0.0017	>=-2.5 & <=2.5	Pass			
10	NV	-4.60				-0.0018	>=-2.5 & <=2.5	Pass			
20	NV	-3.50				-0.0014	>=-2.5 & <=2.5	Pass			
30	NV	-6.90				-0.0027	>=-2.5 & <=2.5	Pass			
40	NV	-4.80				-0.0019	>=-2.5 & <=2.5	Pass			
50	NV	-2.10				-0.0008	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
							HV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass



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			-30	NV	-3.30	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-1.50	-0.0006	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-3.90	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			0	NV	1.70	0.0007	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-0.70	-0.0003	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.50	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-4.60	-0.0018	≥ -2.5 & ≤ 2.5	Pass
			40	NV	3.70	0.0015	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-0.30	-0.0001	≥ -2.5 & ≤ 2.5	Pass



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2.15 30k_SISO_50MHz

2.15.1 Test Result

5G NR n7 SCS=30kHz SISO 50MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	2.20	0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	3.60	0.0014	>=-2.5 & <=2.5	Pass
			20	NV	4.30	0.0017	>=-2.5 & <=2.5	Pass
			30	NV	1.50	0.0006	>=-2.5 & <=2.5	Pass
			40	NV	2.80	0.0011	>=-2.5 & <=2.5	Pass
50	NV	0.90	0.0004	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			40	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
50	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-11.60	-0.0046	>=-2.5 & <=2.5	Pass
50	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	2.70	0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass



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Table with columns for Test Item, Modulation, Bandwidth, Frequency, Power, Error Rate, and Pass/Fail status. Rows include DFT-s-OFDM 256 QAM, CP-OFDM QPSK, CP-OFDM 16 QAM, CP-OFDM 64 QAM, and CP-OFDM 256 QAM.



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			-30	NV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	2.80	0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			50	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass



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Member of the SGS Group (SGS SA)

3. Field Strength of Spurious Radiation

Test Band = SA Band 7_TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5004.18	44.83	-48.00	31.51	-66.92	-25.00	41.92	Horizontal
2	7506.27	44.05	-46.07	36.79	-60.48	-25.00	35.48	Horizontal
3	10008.36	41.63	-41.71	38.51	-56.84	-25.00	31.84	Horizontal
4	12510.45	40.30	-39.80	38.89	-55.86	-25.00	30.86	Horizontal
5	15012.54	37.95	-38.06	40.08	-55.29	-25.00	30.29	Horizontal
6	17514.63	37.32	-36.82	42.20	-52.57	-25.00	27.57	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5004.18	45.63	-48.00	31.51	-66.12	-25.00	41.12	Vertical
2	7506.27	44.28	-46.07	36.79	-60.25	-25.00	35.25	Vertical
3	10008.36	41.54	-41.71	38.51	-56.93	-25.00	31.93	Vertical
4	12510.45	39.61	-39.80	38.89	-56.55	-25.00	31.55	Vertical
5	15012.54	37.22	-38.06	40.08	-56.02	-25.00	31.02	Vertical
6	17514.63	37.98	-36.82	42.20	-51.91	-25.00	26.91	Vertical



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Test Band = SA Band 7_ TM1
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5034.18	45.55	-47.94	31.58	-66.07	-25.00	41.07	Horizontal
2	7551.27	44.24	-45.35	36.74	-59.63	-25.00	34.63	Horizontal
3	10068.36	41.07	-41.82	38.56	-57.44	-25.00	32.44	Horizontal
4	12585.45	40.30	-39.12	38.85	-55.23	-25.00	30.23	Horizontal
5	15102.54	37.59	-38.41	39.90	-56.17	-25.00	31.17	Horizontal
6	17619.63	36.85	-37.03	42.87	-52.57	-25.00	27.57	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5034.18	45.79	-47.94	31.58	-65.83	-25.00	40.83	Vertical
2	7551.27	44.06	-45.35	36.74	-59.81	-25.00	34.81	Vertical
3	10068.36	42.21	-41.82	38.56	-56.30	-25.00	31.30	Vertical
4	12585.45	39.33	-39.12	38.85	-56.20	-25.00	31.20	Vertical
5	15102.54	38.11	-38.41	39.90	-55.65	-25.00	30.65	Vertical
6	17619.63	37.58	-37.03	42.87	-51.84	-25.00	26.84	Vertical



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Test Band = SA Band 7_ TM1
 Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5064.18	45.19	-47.89	31.65	-66.30	-25.00	41.30	Horizontal
2	7596.27	44.63	-44.63	36.68	-58.57	-25.00	33.57	Horizontal
3	10128.36	40.52	-41.95	38.62	-58.07	-25.00	33.07	Horizontal
4	12660.45	40.57	-39.16	38.80	-55.05	-25.00	30.05	Horizontal
5	15192.54	37.00	-36.77	39.73	-55.29	-25.00	30.29	Horizontal
6	17724.63	38.12	-37.71	43.54	-51.31	-25.00	26.31	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5064.18	45.41	-47.89	31.65	-66.08	-25.00	41.08	Vertical
2	7596.27	43.92	-44.63	36.68	-59.28	-25.00	34.28	Vertical
3	10128.36	40.35	-41.95	38.62	-58.24	-25.00	33.24	Vertical
4	12660.45	39.31	-39.16	38.80	-56.31	-25.00	31.31	Vertical
5	15192.54	37.07	-36.77	39.73	-55.22	-25.00	30.22	Vertical
6	17724.63	37.63	-37.71	43.54	-51.80	-25.00	26.80	Vertical



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Report No.: SEWM2311000456RG02
 Rev.: 01
 Page: 110 of 985

Test Band = NSA 4A_N7A_TM1
 Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3941	47.50	-48.24	29.32	-66.69	-25.00	41.69	Horizontal
2	5500	47.78	-47.61	32.70	-62.39	-25.00	37.39	Horizontal
3	7786	46.35	-44.95	36.46	-57.41	-25.00	32.41	Horizontal
4	9364	44.91	-42.99	37.93	-55.41	-25.00	30.41	Horizontal
5	12065	41.65	-39.56	39.16	-54.01	-25.00	29.01	Horizontal
6	14897	39.98	-37.35	40.18	-52.45	-25.00	27.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3956.5	47.24	-48.23	29.34	-66.91	-25.00	41.91	Vertical
2	6378.5	46.61	-47.01	34.09	-61.58	-25.00	36.58	Vertical
3	8808.5	45.29	-43.99	37.33	-56.63	-25.00	31.63	Vertical
4	11077	41.42	-40.44	39.38	-54.89	-25.00	29.89	Vertical
5	14320	39.76	-38.45	40.64	-53.31	-25.00	28.31	Vertical
6	17773.5	38.16	-37.52	43.85	-50.77	-25.00	25.77	Vertical



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
 Wireless Laboratory

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Report No.: SEWM2311000456RG02
 Rev.: 01
 Page: 111 of 985

Test Band = NSA 4A_N7A_TM1
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3597.5	47.09	-48.28	28.84	-67.61	-25.00	42.61	Horizontal
2	4863	46.95	-48.02	31.17	-65.16	-25.00	40.16	Horizontal
3	6583.5	46.58	-47.04	34.68	-61.04	-25.00	36.04	Horizontal
4	10783.5	42.02	-40.77	39.21	-54.80	-25.00	29.80	Horizontal
5	14316.5	39.57	-38.45	40.65	-53.49	-25.00	28.49	Horizontal
6	17337	37.84	-37.29	41.06	-53.65	-25.00	28.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3835.5	46.96	-48.22	29.17	-67.35	-25.00	42.35	Vertical
2	4896	46.81	-48.03	31.25	-65.23	-25.00	40.23	Vertical
3	6707.5	46.48	-46.58	34.96	-60.40	-25.00	35.40	Vertical
4	9410.5	45.04	-42.98	37.97	-55.23	-25.00	30.23	Vertical
5	12657	41.31	-39.15	38.81	-54.29	-25.00	29.29	Vertical
6	17972	38.25	-36.56	45.12	-48.44	-25.00	23.44	Vertical



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Report No.: SEWM2311000456RG02
 Rev.: 01
 Page: 112 of 985

Test Band = NSA 4A_N7A_TM1
 Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3908	47.32	-48.28	29.27	-66.95	-25.00	41.95	Horizontal
2	5169.5	46.74	-47.87	31.91	-64.48	-25.00	39.48	Horizontal
3	6821.5	47.09	-46.86	35.21	-59.82	-25.00	34.82	Horizontal
4	8769.5	45.73	-44.03	37.28	-56.28	-25.00	31.28	Horizontal
5	11135.5	41.40	-40.35	39.37	-54.84	-25.00	29.84	Horizontal
6	14752.5	38.89	-36.77	40.30	-52.84	-25.00	27.84	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3897	47.56	-48.29	29.26	-66.73	-25.00	41.73	Vertical
2	5441	47.60	-47.67	32.56	-62.78	-25.00	37.78	Vertical
3	7394	46.32	-46.17	36.55	-58.56	-25.00	33.56	Vertical
4	9412.5	44.98	-42.97	37.97	-55.27	-25.00	30.27	Vertical
5	11783.5	41.61	-39.84	39.24	-54.24	-25.00	29.24	Vertical
6	14816.5	38.91	-36.94	40.25	-53.04	-25.00	28.04	Vertical



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Report No.: SEWM2311000456RG02

Rev.: 01

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Test Band = NSA 66A_N7A_TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3896	47.26	-48.29	29.25	-67.03	-25.00	42.03	Horizontal
2	5148	46.83	-47.85	31.86	-64.43	-25.00	39.43	Horizontal
3	7047.5	45.95	-46.23	35.71	-59.83	-25.00	34.83	Horizontal
4	9487	44.47	-42.46	38.04	-55.21	-25.00	30.21	Horizontal
5	11319.5	41.86	-40.39	39.34	-54.45	-25.00	29.45	Horizontal
6	14381.5	39.77	-38.55	40.59	-53.45	-25.00	28.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3901.5	47.18	-48.29	29.26	-67.11	-25.00	42.11	Vertical
2	5345	47.58	-47.75	32.33	-63.11	-25.00	38.11	Vertical
3	7166	46.66	-46.07	36.00	-58.68	-25.00	33.68	Vertical
4	9424	44.79	-42.89	37.98	-55.38	-25.00	30.38	Vertical
5	12122.5	41.37	-39.67	39.13	-54.44	-25.00	29.44	Vertical
6	14407.5	39.86	-38.58	40.57	-53.41	-25.00	28.41	Vertical



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Report No.: SEWM2311000456RG02
 Rev.: 01
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Test Band = NSA 66A_N7A_TM1
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3581	47.47	-48.28	28.81	-67.26	-25.00	42.26	Horizontal
2	5354	47.96	-47.75	32.35	-62.70	-25.00	37.70	Horizontal
3	7582.5	45.77	-44.85	36.70	-57.64	-25.00	32.64	Horizontal
4	9456.5	44.53	-42.67	38.01	-55.38	-25.00	30.38	Horizontal
5	12072.5	41.82	-39.57	39.16	-53.86	-25.00	28.86	Horizontal
6	14304.5	39.61	-38.43	40.66	-53.42	-25.00	28.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3908	47.36	-48.28	29.27	-66.91	-25.00	41.91	Vertical
2	5436	47.04	-47.68	32.55	-63.35	-25.00	38.35	Vertical
3	7753	46.03	-45.05	36.50	-57.78	-25.00	32.78	Vertical
4	9484.5	44.42	-42.48	38.04	-55.28	-25.00	30.28	Vertical
5	12029	40.97	-39.48	39.18	-54.59	-25.00	29.59	Vertical
6	14310.5	40.02	-38.44	40.65	-53.03	-25.00	28.03	Vertical



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Test Band = NSA 66A_N7A_TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3901.5	47.70	-48.29	29.26	-66.59	-25.00	41.59	Horizontal
2	5426.5	47.26	-47.69	32.52	-63.17	-25.00	38.17	Horizontal
3	7567	45.43	-45.10	36.72	-58.21	-25.00	33.21	Horizontal
4	8883.5	45.91	-44.02	37.44	-55.94	-25.00	30.94	Horizontal
5	11160.5	41.68	-40.35	39.37	-54.56	-25.00	29.56	Horizontal
6	12798.5	41.36	-39.30	38.72	-54.48	-25.00	29.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3934.5	48.07	-48.25	29.31	-66.13	-25.00	41.13	Vertical
2	5439	47.63	-47.68	32.55	-62.75	-25.00	37.75	Vertical
3	7591.5	45.10	-44.71	36.69	-58.18	-25.00	33.18	Vertical
4	9413.5	45.12	-42.96	37.97	-55.13	-25.00	30.13	Vertical
5	12012	41.01	-39.45	39.19	-54.50	-25.00	29.50	Vertical
6	14309	39.77	-38.43	40.65	-53.27	-25.00	28.27	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.



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4. 99% & 26dB Bandwidth

4.1 15k_SISO_5MHz_NTNV

4.1.1 Test Result

5G NR n7 SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2502.5	Outer_Full	4.55	5.02	/	Pass
	2535	Outer_Full	4.55	5.02	/	Pass
	2567.5	Outer_Full	4.55	5.01	/	Pass
DFT-s-OFDM QPSK	2502.5	Outer_Full	4.55	5.00	/	Pass
	2535	Outer_Full	4.56	5.01	/	Pass
	2567.5	Outer_Full	4.56	5.01	/	Pass
DFT-s-OFDM 16 QAM	2502.5	Outer_Full	4.54	4.97	/	Pass
	2535	Outer_Full	4.54	4.99	/	Pass
	2567.5	Outer_Full	4.54	4.98	/	Pass
DFT-s-OFDM 64 QAM	2502.5	Outer_Full	4.57	5.00	/	Pass
	2535	Outer_Full	4.55	4.99	/	Pass
	2567.5	Outer_Full	4.57	5.00	/	Pass
DFT-s-OFDM 256 QAM	2502.5	Outer_Full	4.53	4.97	/	Pass
	2535	Outer_Full	4.53	4.98	/	Pass
	2567.5	Outer_Full	4.53	5.01	/	Pass
CP-OFDM QPSK	2502.5	Outer_Full	4.53	5.07	/	Pass
	2535	Outer_Full	4.53	4.95	/	Pass
	2567.5	Outer_Full	4.54	4.97	/	Pass
CP-OFDM 16 QAM	2502.5	Outer_Full	4.54	5.02	/	Pass
	2535	Outer_Full	4.53	4.97	/	Pass
	2567.5	Outer_Full	4.54	5.05	/	Pass
CP-OFDM 64 QAM	2502.5	Outer_Full	4.56	5.51	/	Pass
	2535	Outer_Full	4.55	5.39	/	Pass
	2567.5	Outer_Full	4.54	5.43	/	Pass
CP-OFDM 256 QAM	2502.5	Outer_Full	4.51	4.98	/	Pass
	2535	Outer_Full	4.51	5.01	/	Pass
	2567.5	Outer_Full	4.52	5.00	/	Pass

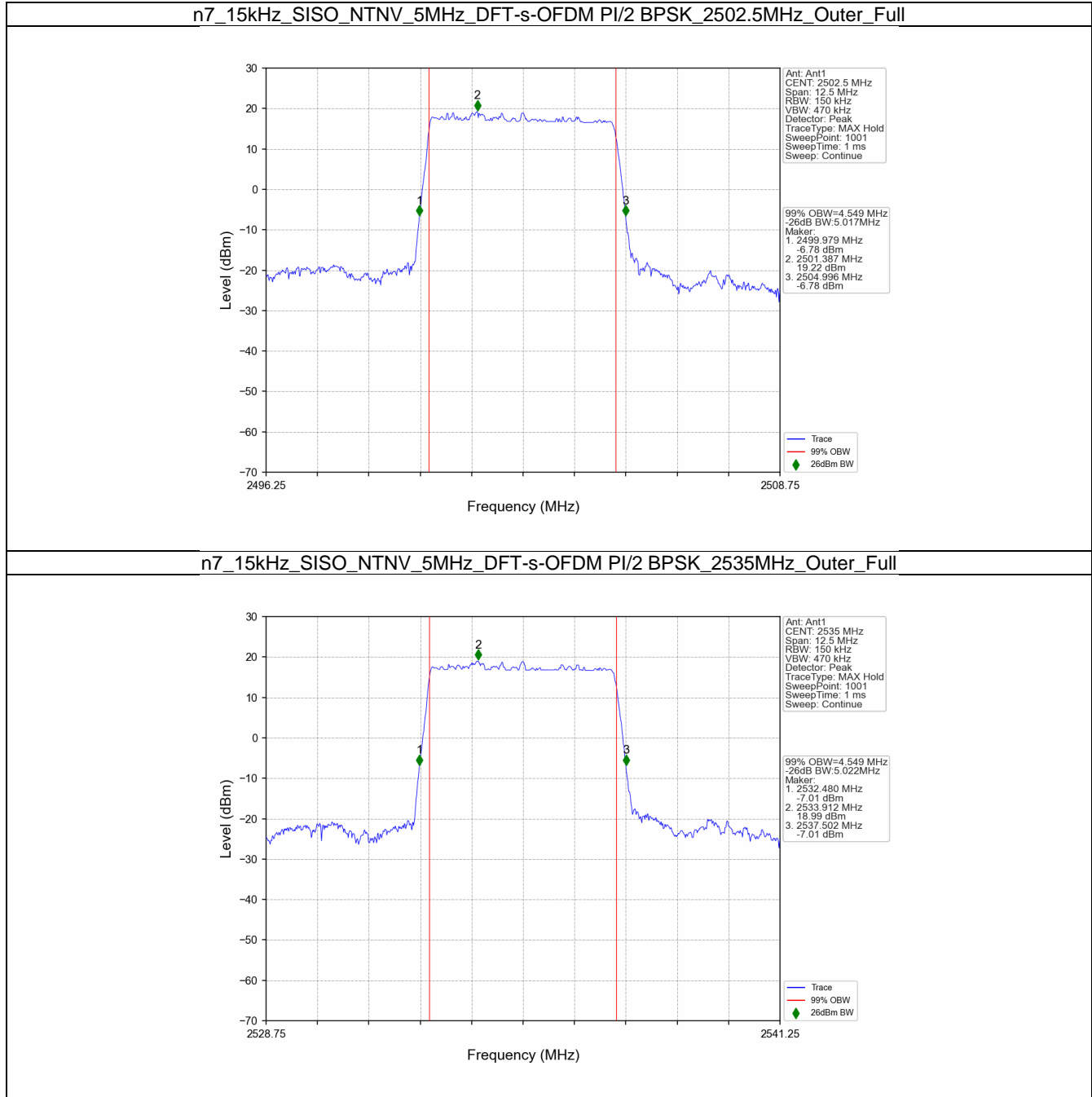


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4.1.2 Test Graph

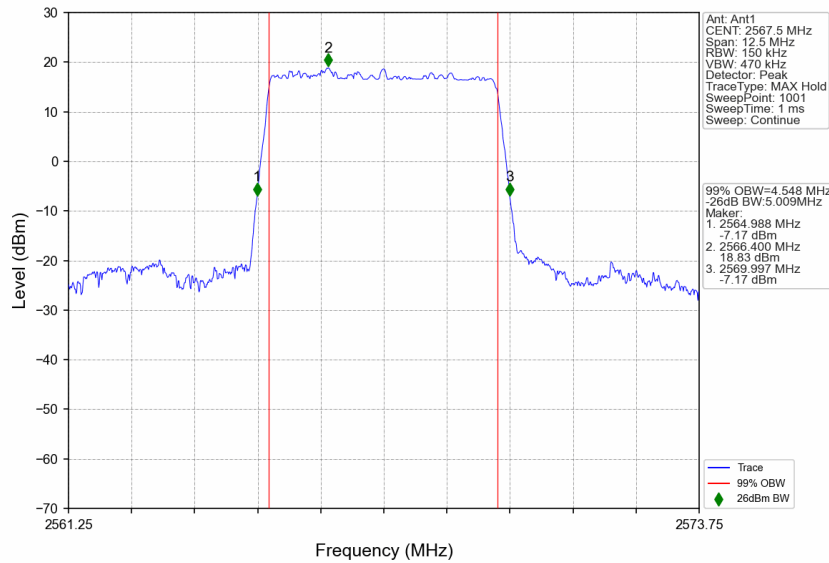


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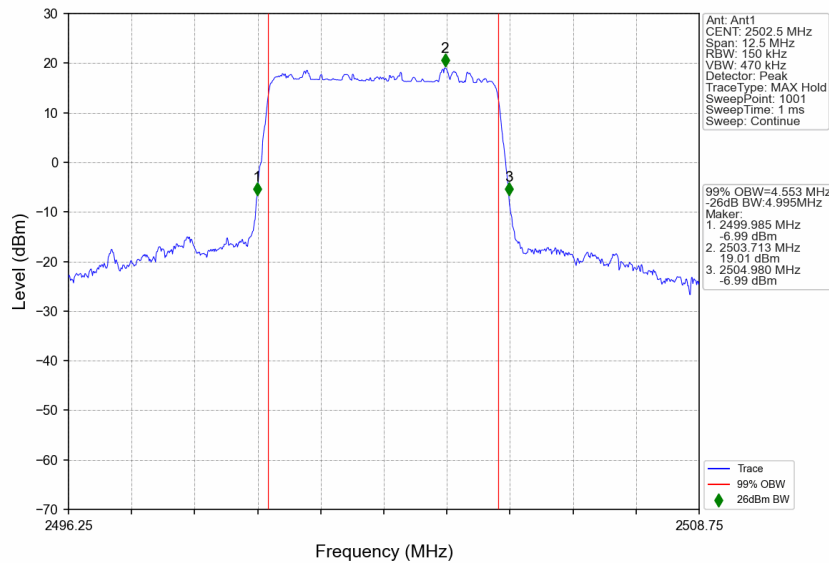
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2567.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2502.5MHz_Outer_Full



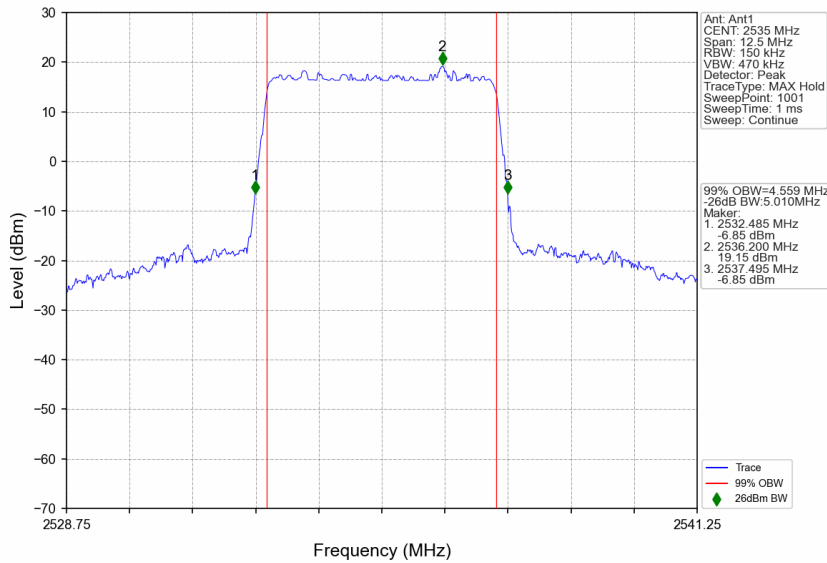
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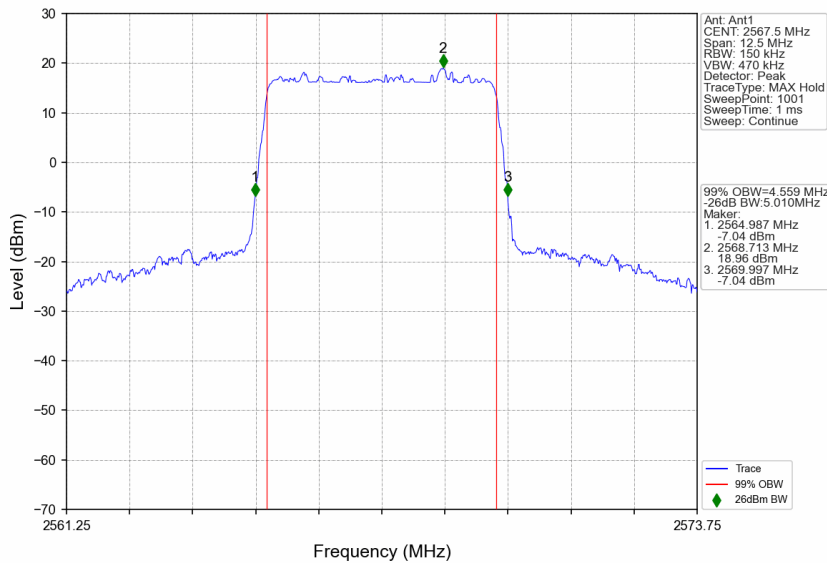
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2567.5MHz_Outer_Full

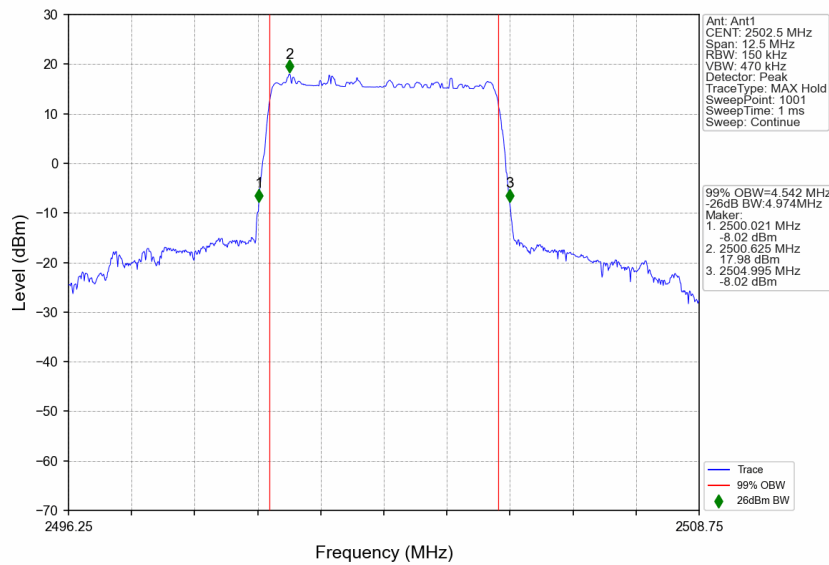


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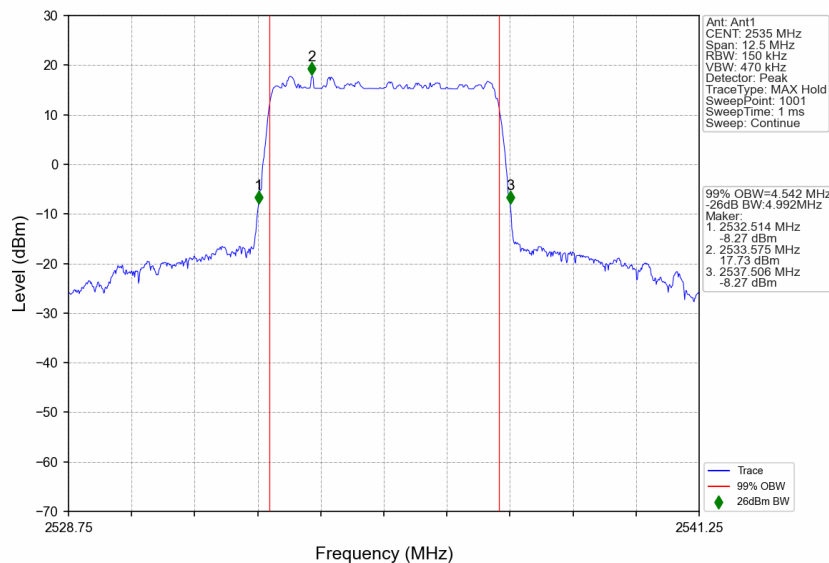
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_2502.5MHz_Outer_Full



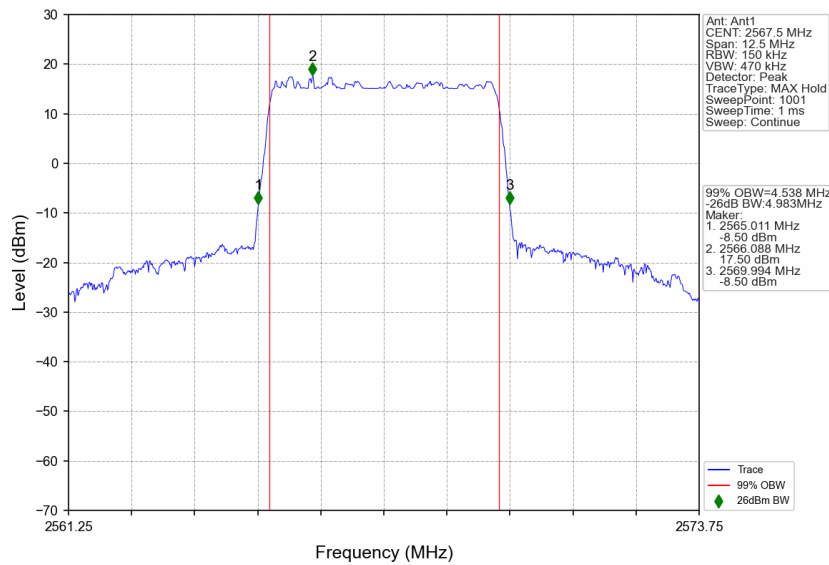
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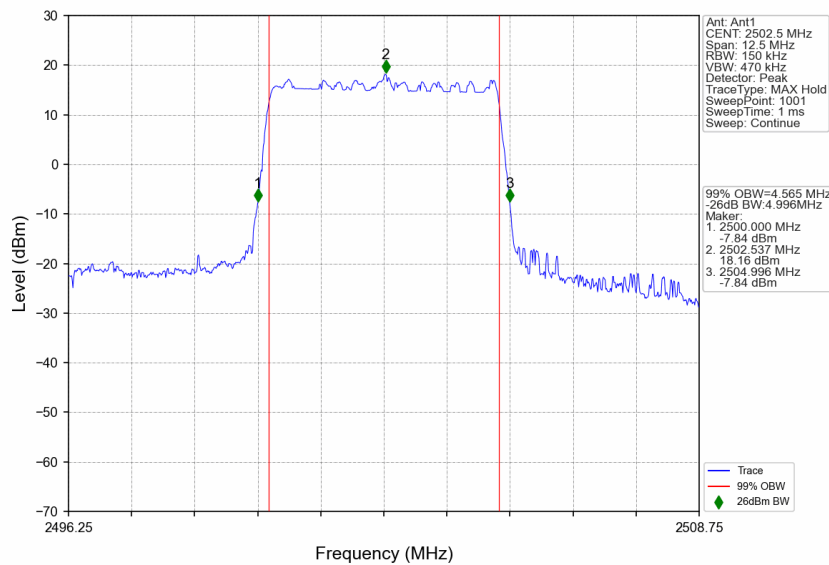
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_2567.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_2502.5MHz_Outer_Full

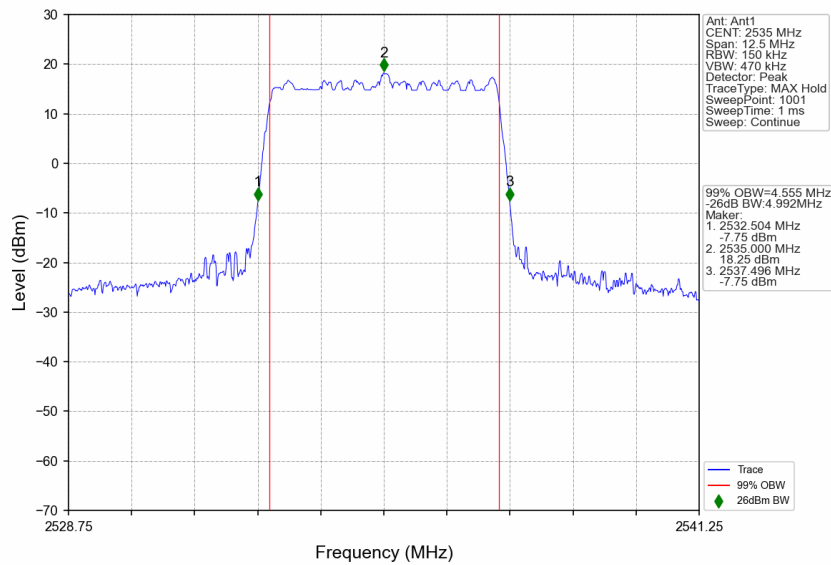


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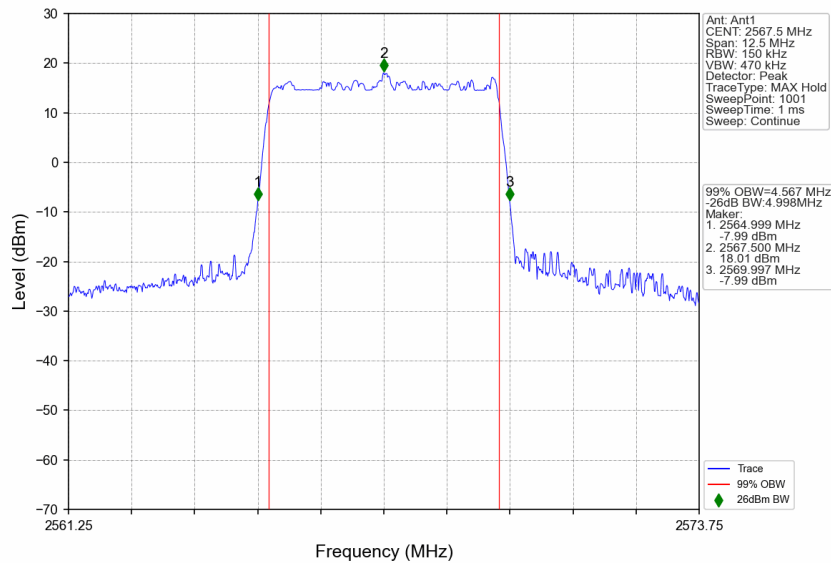
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_2567.5MHz_Outer_Full

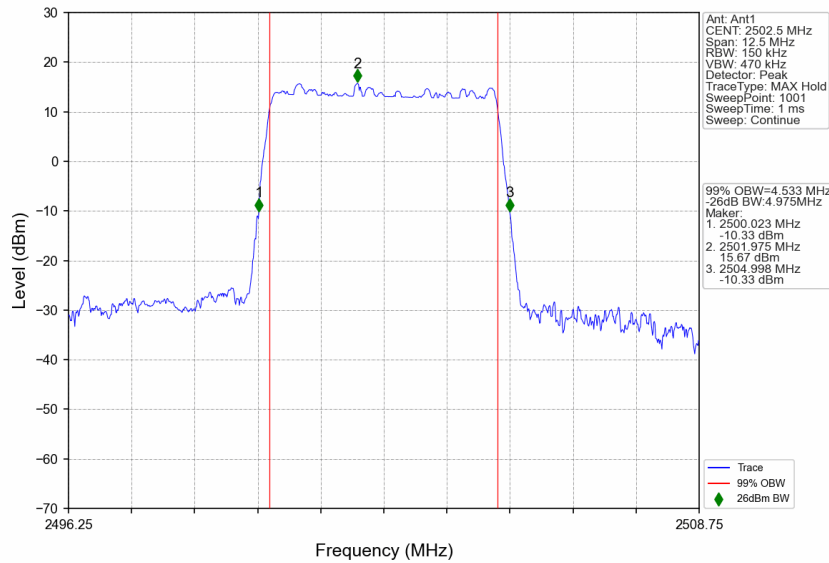


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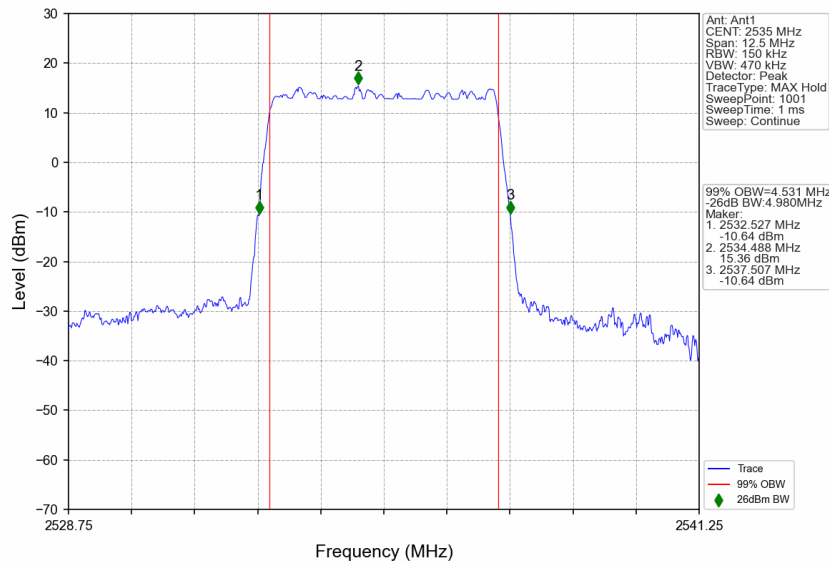
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_2535MHz_Outer_Full

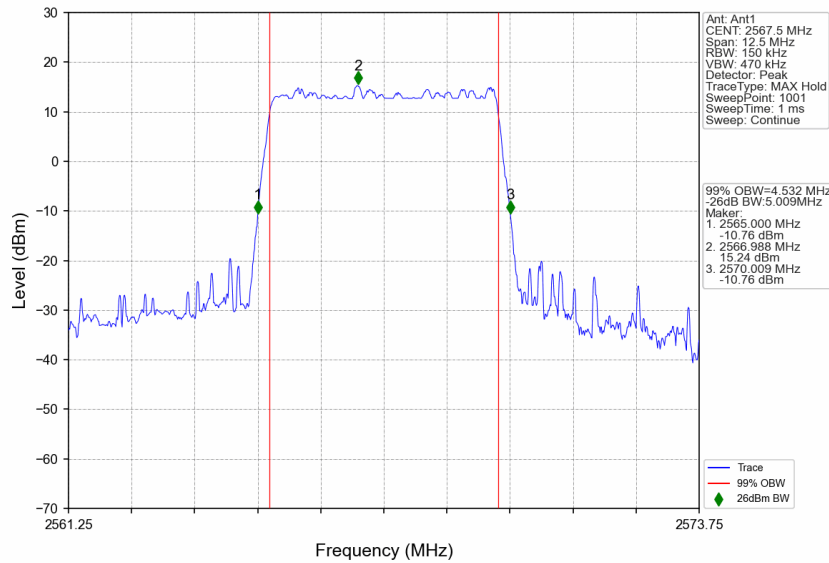


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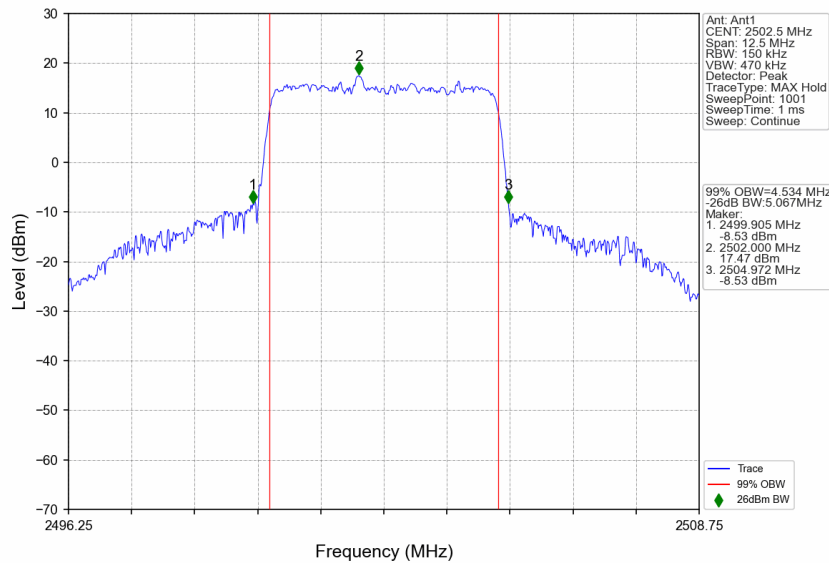
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n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2502.5MHz_Outer_Full



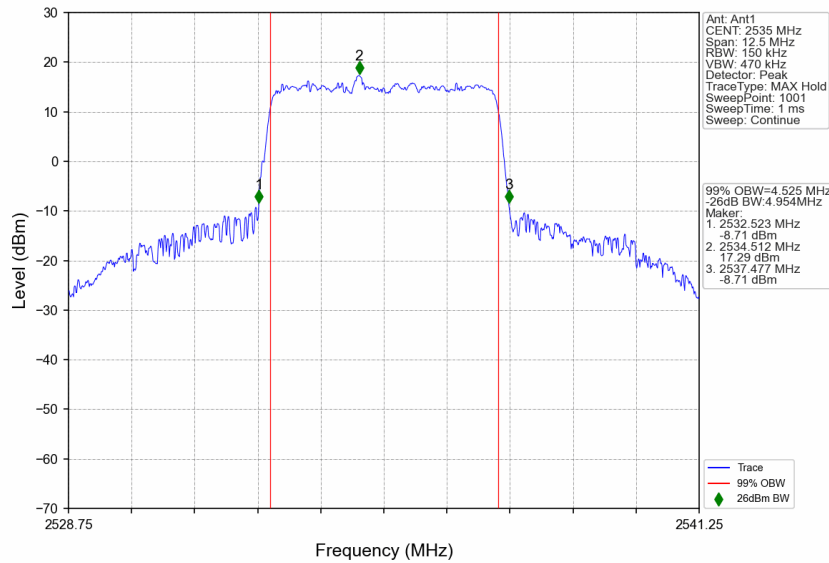
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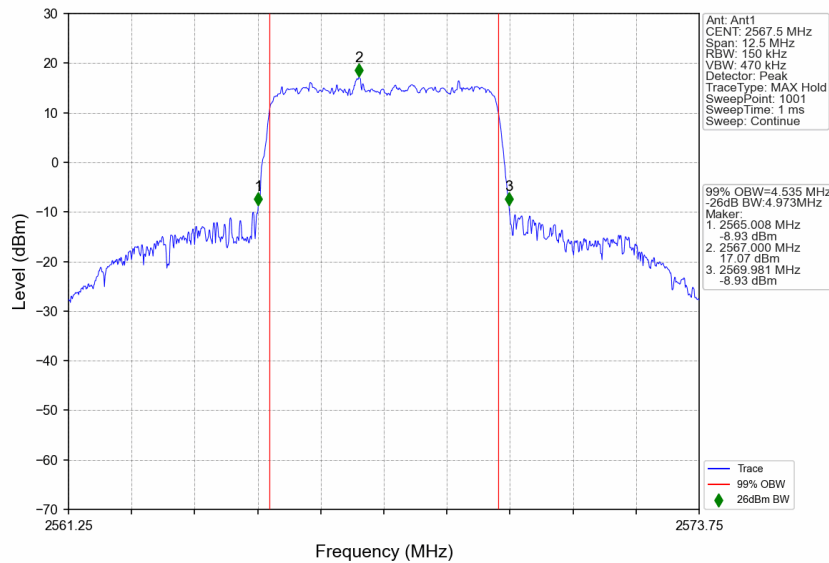
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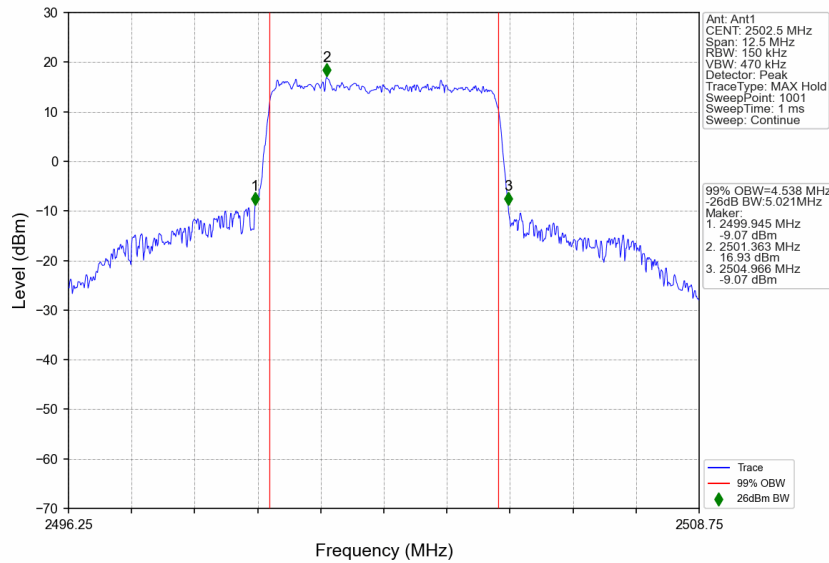
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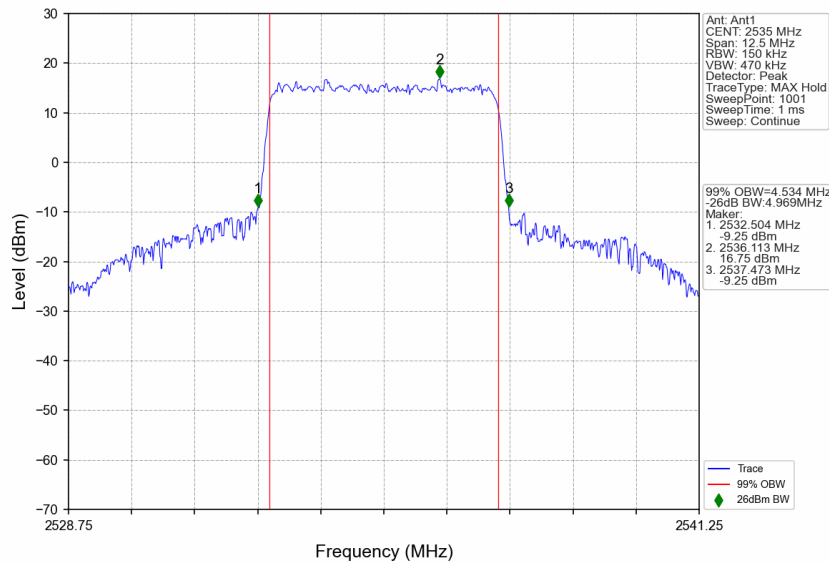
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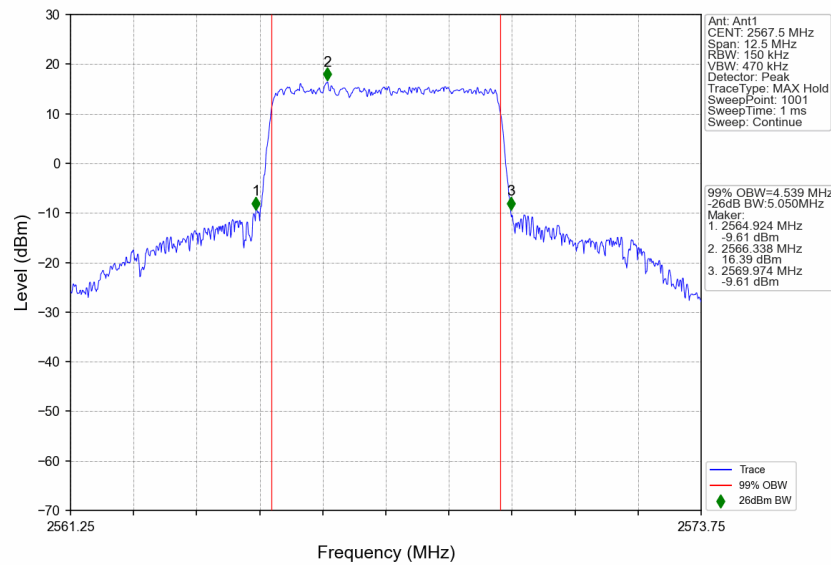
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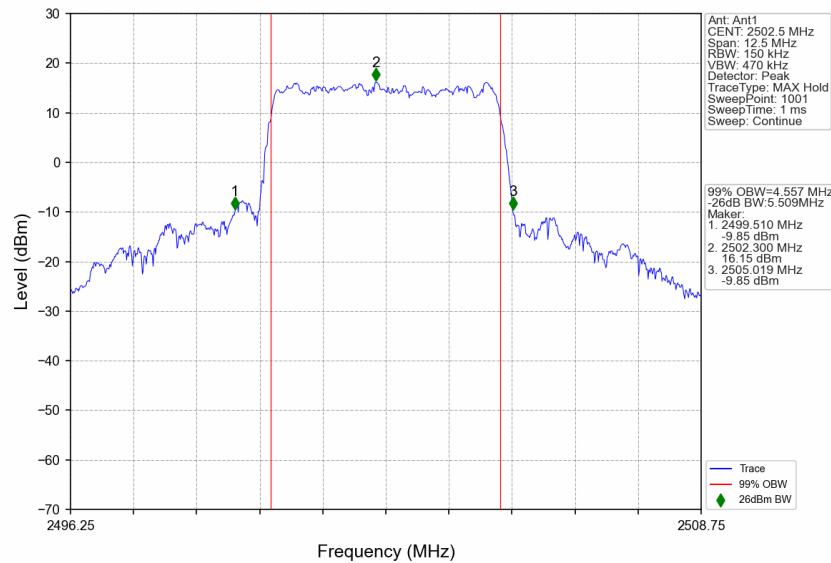
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n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2502.5MHz_Outer_Full

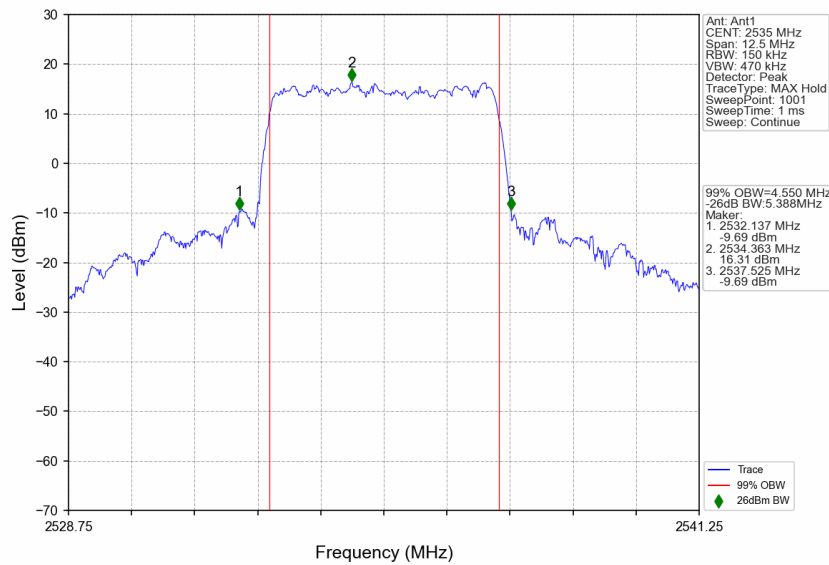


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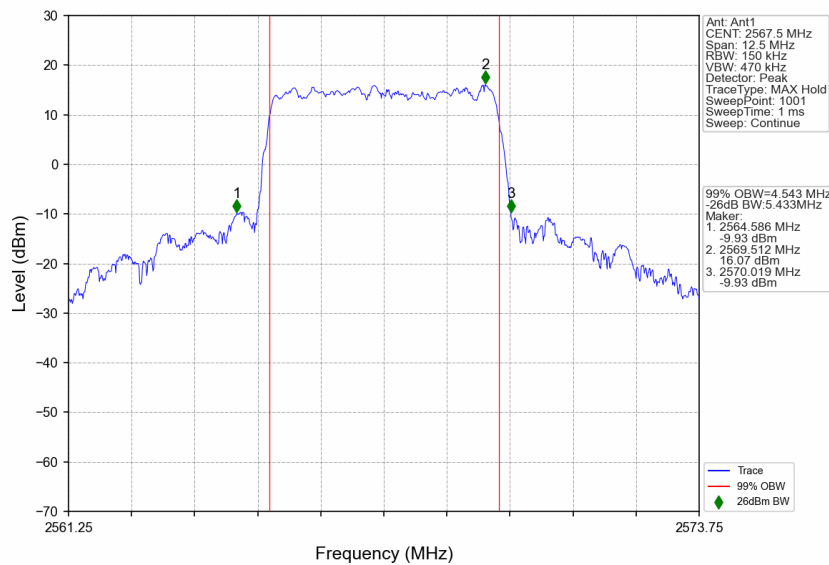
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n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2567.5MHz_Outer_Full



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