

			30	NV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-2.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-1.80	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-3.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-2.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.50	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-2.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-2.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.30	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	-6.40	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-6.60	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-6.70	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-5.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.90	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.20	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-7.00	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-5.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.10	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-3.90	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-7.80	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-5.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.00	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-6.60	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-6.00	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-6.40	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.20	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.50	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.90	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.90	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-6.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.20	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-6.60	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-7.40	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.00	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-7.40	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.50	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			



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			20	NV	-4.80	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-8.20	-0.0044	>=-2.5 & <=2.5	Pass
			40	NV	-7.50	-0.0040	>=-2.5 & <=2.5	Pass
			50	NV	-8.00	-0.0042	>=-2.5 & <=2.5	Pass

## 4.5 15k\_SISO\_25MHz

### 4.5.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-4.90	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-3.20	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
50	NV	-6.50	-0.0035	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-1.50	-0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	-0.80	-0.0004	>=-2.5 & <=2.5	Pass
			0	NV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-5.00	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
50	NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-2.20	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-0.50	-0.0003	>=-2.5 & <=2.5	Pass
			-30	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	1.80	0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-0.90	-0.0005	>=-2.5 & <=2.5	Pass
			20	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-0.10	-0.0001	>=-2.5 & <=2.5	Pass
50	NV	-1.20	-0.0006	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
10	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass			



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			20	NV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-1.50	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-4.40	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-0.80	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-2.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	1.80	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-0.80	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-1.30	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-2.00	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.70	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	-3.30	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.70	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-2.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.70	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.70	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-2.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.70	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-2.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-2.10	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-1.60	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-2.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.40	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.30	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-2.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-7.10	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-6.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-6.40	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-5.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass			



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			10	NV	-5.70	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-7.00	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-6.00	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-6.80	-0.0036	>=-2.5 & <=2.5	Pass
			50	NV	-4.90	-0.0026	>=-2.5 & <=2.5	Pass

## 4.6 15k\_SISO\_30MHz

### 4.6.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-1.50	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-3.00	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-6.00	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-3.20	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-2.50	-0.0013	>=-2.5 & <=2.5	Pass
50	NV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	-7.30	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-7.20	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-9.70	-0.0052	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0045	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-6.10	-0.0032	>=-2.5 & <=2.5	Pass
50	NV	-6.50	-0.0035	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-9.30	-0.0049	>=-2.5 & <=2.5	Pass
				HV	-5.70	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-6.80	-0.0036	>=-2.5 & <=2.5	Pass
			-20	NV	-8.50	-0.0045	>=-2.5 & <=2.5	Pass
			-10	NV	-8.50	-0.0045	>=-2.5 & <=2.5	Pass
			0	NV	-9.10	-0.0048	>=-2.5 & <=2.5	Pass
			10	NV	-7.70	-0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-7.50	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-6.70	-0.0036	>=-2.5 & <=2.5	Pass
50	NV	-7.40	-0.0039	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-6.50	-0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-4.90	-0.0026	>=-2.5 & <=2.5	Pass
0	NV	-7.00	-0.0037	>=-2.5 & <=2.5	Pass			



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			10	NV	-6.20	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-5.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-7.00	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-6.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-6.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	1.90	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	2.30	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	2.60	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	3.60	0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	5.30	0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	3.50	0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-0.40	-0.0002	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-0.60	-0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	1.40	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	2.20	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	0.50	0.0003	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	-4.40	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.90	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-6.40	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-4.80	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-5.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-5.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.90	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-5.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-4.50	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.50	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-4.80	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-5.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-5.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-5.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-5.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-5.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-5.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass



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		0	NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
		10	NV	-5.00	-0.0027	>=-2.5 & <=2.5	Pass
		20	NV	-7.10	-0.0038	>=-2.5 & <=2.5	Pass
		30	NV	-7.10	-0.0038	>=-2.5 & <=2.5	Pass
		40	NV	-4.90	-0.0026	>=-2.5 & <=2.5	Pass
		50	NV	-5.80	-0.0031	>=-2.5 & <=2.5	Pass

## 4.7 15k\_SISO\_40MHz

### 4.7.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	0.70	0.0004	>=-2.5 & <=2.5	Pass
				HV	2.60	0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	1.80	0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	1.30	0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	2.90	0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-1.40	-0.0007	>=-2.5 & <=2.5	Pass
			10	NV	3.90	0.0021	>=-2.5 & <=2.5	Pass
			20	NV	2.50	0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-0.70	-0.0004	>=-2.5 & <=2.5	Pass
50	NV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-1.80	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-3.00	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-5.70	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-4.80	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-5.90	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-6.20	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	1.70	0.0009	>=-2.5 & <=2.5	Pass
				HV	3.80	0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-1.00	-0.0005	>=-2.5 & <=2.5	Pass
			-20	NV	-0.80	-0.0004	>=-2.5 & <=2.5	Pass
			-10	NV	-2.10	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-2.10	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-4.80	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
50	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-1.30	-0.0007	>=-2.5 & <=2.5	Pass
				HV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-0.80	-0.0004	>=-2.5 & <=2.5	Pass
			-20	NV	-1.70	-0.0009	>=-2.5 & <=2.5	Pass
-10	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass			



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			0	NV	-0.40	-0.0002	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	-2.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-2.10	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	1.30	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-1.40	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass			
			-30	NV	0.50	0.0003	$\geq -2.5$ & $\leq 2.5$	Pass			
			-20	NV	-1.90	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass			
			-10	NV	-2.10	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
			0	NV	-0.70	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	-2.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-1.80	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-2.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-0.60	-0.0003	$\geq -2.5$ & $\leq 2.5$	Pass			
			CP-OFDM QPSK	1882.5	Outer_Full	20	LV	-4.50	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-5.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
						-30	NV	-5.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-4.40				-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
-10	NV	-3.70				-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
0	NV	-4.70				-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass			
10	NV	-3.60				-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
20	NV	-3.70				-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
30	NV	-4.40				-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
40	NV	-4.30				-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-2.10				-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	1882.5	Outer_Full				20	LV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-3.30	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						-30	NV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
			-10	NV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
			0	NV	-4.00	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-4.80	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
			CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-5.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-4.40	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
						-30	NV	2.00	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	1.00				0.0005	$\geq -2.5$ & $\leq 2.5$	Pass			
-10	NV	1.00				0.0005	$\geq -2.5$ & $\leq 2.5$	Pass			
0	NV	-3.30				-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
10	NV	-3.30				-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
20	NV	-1.30				-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass			
30	NV	-2.90				-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
40	NV	-2.20				-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-3.70				-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	1882.5	Outer_Full				20	LV	-7.30	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-9.40	-0.0050	$\geq -2.5$ & $\leq 2.5$	Pass
						-30	NV	-8.40	-0.0045	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-9.80	-0.0052	$\geq -2.5$ & $\leq 2.5$	Pass			



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			-10	NV	-6.40	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-7.80	-0.0041	>=-2.5 & <=2.5	Pass
			10	NV	-5.70	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-5.60	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-6.30	-0.0033	>=-2.5 & <=2.5	Pass
			40	NV	-7.10	-0.0038	>=-2.5 & <=2.5	Pass
			50	NV	-6.40	-0.0034	>=-2.5 & <=2.5	Pass

## 4.8 30k\_SISO\_10MHz

### 4.8.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	4.90	0.0026	>=-2.5 & <=2.5	Pass
				HV	5.80	0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	1.80	0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	4.00	0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	3.00	0.0016	>=-2.5 & <=2.5	Pass
			0	NV	3.20	0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	3.40	0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	8.10	0.0043	>=-2.5 & <=2.5	Pass
50	NV	1.70	0.0009	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass
				HV	1.40	0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	3.80	0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	6.10	0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-1.80	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	2.80	0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	3.70	0.0020	>=-2.5 & <=2.5	Pass
			40	NV	2.30	0.0012	>=-2.5 & <=2.5	Pass
50	NV	2.90	0.0015	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-0.80	-0.0004	>=-2.5 & <=2.5	Pass
				HV	4.70	0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	3.60	0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-1.50	-0.0008	>=-2.5 & <=2.5	Pass
			10	NV	2.20	0.0012	>=-2.5 & <=2.5	Pass
			20	NV	1.70	0.0009	>=-2.5 & <=2.5	Pass
			30	NV	3.30	0.0018	>=-2.5 & <=2.5	Pass
			40	NV	3.90	0.0021	>=-2.5 & <=2.5	Pass
50	NV	-1.10	-0.0006	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
				HV	3.40	0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-5.00	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass



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			-10	NV	5.20	0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
			0	NV	-2.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	5.30	0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-1.50	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-0.70	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-2.00	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-2.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	1.70	0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	4.00	0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	4.20	0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	6.50	0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	3.10	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	4.00	0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-1.60	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	4.40	0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM QPSK	1882.5	Outer_Full	20	LV	2.80	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	4.90	0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
									-30	NV	1.30
						-20	NV	3.00	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	1.40	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	0.80	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	3.10	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	2.70	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-0.40	-0.0002	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	1.80	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	1882.5	Outer_Full				20	LV	1.40	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	2.70	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
									-30	NV	3.10
						-20	NV	3.20	0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	3.30	0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	2.40	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	3.10	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	3.80	0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	4.10	0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	4.70	0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-2.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-1.20	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	0.80	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
									-30	NV	2.60
						-20	NV	3.20	0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	2.60	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-0.90	-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	2.30	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	5.40	0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	3.10	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	3.50	0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	1882.5	Outer_Full				20	LV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-5.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
									-30	NV	-5.60



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			-20	NV	-6.00	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-6.40	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
			50	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass

## 4.9 30k\_SISO\_15MHz

### 4.9.1 Test Result

5G NR n25 SCS=30kHz 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	1882.5	Outer_Full	20	LV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	1.90	0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	6.00	0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	2.80	0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-6.50	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	2.80	0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
50	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	1.50	0.0008	>=-2.5 & <=2.5	Pass
				HV	3.90	0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	2.60	0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	2.60	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	7.80	0.0041	>=-2.5 & <=2.5	Pass
			0	NV	-9.60	-0.0051	>=-2.5 & <=2.5	Pass
			10	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	2.20	0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0024	>=-2.5 & <=2.5	Pass
50	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	3.30	0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	4.20	0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-8.90	-0.0047	>=-2.5 & <=2.5	Pass
			20	NV	-1.00	-0.0005	>=-2.5 & <=2.5	Pass
			30	NV	2.20	0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0034	>=-2.5 & <=2.5	Pass
50	NV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-5.60	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass



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			-20	NV	-5.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	4.10	0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-6.80	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-9.00	-0.0048	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.10	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.00	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-10.00	-0.0053	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-7.00	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-5.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	2.20	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-1.90	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	3.00	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	1.60	0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	2.50	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	1.60	0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-0.80	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	4.40	0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	5.70	0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	2.70	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	3.00	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	1.60	0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-1.70	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	1.20	0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	5.20	0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	4.40	0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-1.60	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	2.70	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	3.30	0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	3.80	0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	1.60	0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	2.20	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	2.30	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-1.60	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-1.70	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-1.80	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	0.70	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	1.70	0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	1.00	0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	1.30	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	1.50	0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-2.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-2.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-4.40	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass



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			-30	NV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	0.10	0.0001	>=-2.5 & <=2.5	Pass
			-10	NV	-1.40	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-0.90	-0.0005	>=-2.5 & <=2.5	Pass
			30	NV	0.40	0.0002	>=-2.5 & <=2.5	Pass
			40	NV	-1.40	-0.0007	>=-2.5 & <=2.5	Pass
			50	NV	1.60	0.0008	>=-2.5 & <=2.5	Pass

## 4.10 30k\_SISO\_20MHz

### 4.10.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
				HV	5.50	0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	4.10	0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	2.60	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	6.80	0.0036	>=-2.5 & <=2.5	Pass
			0	NV	2.10	0.0011	>=-2.5 & <=2.5	Pass
			10	NV	7.60	0.0040	>=-2.5 & <=2.5	Pass
			20	NV	2.60	0.0014	>=-2.5 & <=2.5	Pass
			30	NV	5.80	0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-3.20	-0.0017	>=-2.5 & <=2.5	Pass
50	NV	4.70	0.0025	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	-2.10	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-2.60	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-1.40	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	2.90	0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	3.60	0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-3.20	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	3.40	0.0018	>=-2.5 & <=2.5	Pass
50	NV	-4.50	-0.0024	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	6.10	0.0032	>=-2.5 & <=2.5	Pass
				HV	2.20	0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	4.40	0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	1.20	0.0006	>=-2.5 & <=2.5	Pass
			0	NV	-2.60	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	1.80	0.0010	>=-2.5 & <=2.5	Pass
			20	NV	3.30	0.0018	>=-2.5 & <=2.5	Pass
			30	NV	5.00	0.0027	>=-2.5 & <=2.5	Pass
			40	NV	3.90	0.0021	>=-2.5 & <=2.5	Pass
50	NV	2.60	0.0014	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	2.60	0.0014	>=-2.5 & <=2.5	Pass
				HV	4.50	0.0024	>=-2.5 & <=2.5	Pass



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			-30	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	3.10	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	3.30	0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	4.00	0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-2.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	2.50	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	2.60	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-1.10	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-2.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-2.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	1.80	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-3.70	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	-1.40	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-2.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-1.80	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-2.00	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	0.90	0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	2.10	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-1.30	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-1.40	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-1.80	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-1.80	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-1.70	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	2.50	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	1.80	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-1.80	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	1.80	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-1.90	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	2.00	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-1.70	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	2.40	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-2.00	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-2.10	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-0.70	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	1.30	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	1882.5	Outer_Full	20	NV	-1.90	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-1.90	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	2.80	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	1882.5	Outer_Full	20	LV	2.80	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass



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				HV	1.80	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-2.10	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-1.80	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	2.10	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	2.50	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-0.70	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	4.00	0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	0.70	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass

## 4.11 30k\_SISO\_25MHz

### 4.11.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	-2.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	2.20	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.00	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	1.90	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	2.40	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
				0	NV	4.40	0.0023	$\geq -2.5$ & $\leq 2.5$
			10	NV	3.70	0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	5.30	0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	3.30	0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-1.70	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	-5.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-2.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	2.50	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	4.20	0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	2.90	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
				0	NV	4.20	0.0022	$\geq -2.5$ & $\leq 2.5$
			10	NV	3.40	0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	2.80	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-1.40	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	1.90	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	3.40	0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-1.30	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	1.90	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	5.10	0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	4.40	0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	3.10	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
				0	NV	-2.60	-0.0014	$\geq -2.5$ & $\leq 2.5$
			10	NV	5.30	0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	7.40	0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	6.30	0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	4.90	0.0026	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	4.50	0.0024	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-5.90	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass



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				HV	7.60	0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	3.50	0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	3.30	0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	2.00	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	5.80	0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	3.60	0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	1.60	0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-1.20	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	2.40	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	50	NV	3.80	0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-12.00	-0.0064	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-4.90	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.90	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-7.50	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-2.10	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM QPSK	1882.5	Outer_Full	30	NV	-5.90	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-2.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-2.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	3.10	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-3.30	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	0.80	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	1.60	0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-2.10	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	1882.5	Outer_Full	10	NV	-1.40	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-1.30	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	2.70	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.30	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-4.40	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	1.20	0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-1.30	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 64 QAM	1882.5	Outer_Full	-10	NV	-1.30	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-0.30	-0.0002	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-0.90	-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-1.40	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	2.80	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-1.50	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	1.30	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	1.10	0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-3.30	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass



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CP-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-3.20	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-2.60	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
50	NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass			

4.12 30k\_SISO\_30MHz

4.12.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	3.40	0.0018	>=-2.5 & <=2.5	Pass
				HV	6.50	0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	-6.60	-0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	-5.60	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	4.30	0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-9.90	-0.0053	>=-2.5 & <=2.5	Pass
			10	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-7.60	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-4.80	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
50	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	3.00	0.0016	>=-2.5 & <=2.5	Pass
				HV	5.30	0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	3.60	0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	5.20	0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	5.20	0.0028	>=-2.5 & <=2.5	Pass
			0	NV	3.90	0.0021	>=-2.5 & <=2.5	Pass
			10	NV	3.70	0.0020	>=-2.5 & <=2.5	Pass
			20	NV	5.00	0.0027	>=-2.5 & <=2.5	Pass
			30	NV	1.70	0.0009	>=-2.5 & <=2.5	Pass
			40	NV	4.00	0.0021	>=-2.5 & <=2.5	Pass
50	NV	4.30	0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	3.40	0.0018	>=-2.5 & <=2.5	Pass
				HV	-5.30	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-3.00	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	2.00	0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	3.30	0.0018	>=-2.5 & <=2.5	Pass
			30	NV	3.70	0.0020	>=-2.5 & <=2.5	Pass
			40	NV	2.70	0.0014	>=-2.5 & <=2.5	Pass
50	NV	2.90	0.0015	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	2.80	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	4.70	0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.90	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	5.00	0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	3.70	0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	2.80	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-1.90	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	3.50	0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	3.80	0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	3.70	0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-5.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.10	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.80	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-7.70	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-7.10	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-1.10	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	-0.90	-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-1.40	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	3.10	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-2.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	1.10	0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-0.50	-0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	1.70	0.0009	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	2.10	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	2.00	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	1.70	0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	2.60	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	3.90	0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	3.80	0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	4.70	0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	6.40	0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	2.70	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	2.80	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	2.10	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	1.80	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-2.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-1.30	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-2.10	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-1.60	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-1.80	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	1.40	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	2.50	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	1.10	0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-1.30	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-0.70	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass			



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CP-OFDM 256 QAM	1882.5	Outer_Full	50	NV	5.00	0.0027	>=-2.5 & <=2.5	Pass
			20	LV	-6.60	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-5.80	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-6.30	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-6.60	-0.0035	>=-2.5 & <=2.5	Pass
50	NV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass			

4.13 30k\_SISO\_40MHz

4.13.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	3.50	0.0019	>=-2.5 & <=2.5	Pass
				HV	1.00	0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	-1.80	-0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	4.50	0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	2.90	0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-3.00	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-6.70	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-1.00	-0.0005	>=-2.5 & <=2.5	Pass
			40	NV	1.00	0.0005	>=-2.5 & <=2.5	Pass
			50	NV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	-1.40	-0.0007	>=-2.5 & <=2.5	Pass
				HV	1.50	0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	5.60	0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	5.10	0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	2.30	0.0012	>=-2.5 & <=2.5	Pass
			0	NV	3.40	0.0018	>=-2.5 & <=2.5	Pass
			10	NV	5.20	0.0028	>=-2.5 & <=2.5	Pass
			20	NV	0.60	0.0003	>=-2.5 & <=2.5	Pass
			30	NV	4.20	0.0022	>=-2.5 & <=2.5	Pass
			40	NV	3.80	0.0020	>=-2.5 & <=2.5	Pass
			50	NV	-2.20	-0.0012	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	1.00	0.0005	>=-2.5 & <=2.5	Pass
				HV	3.00	0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	4.00	0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-2.10	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	4.10	0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	2.60	0.0014	>=-2.5 & <=2.5	Pass
			30	NV	2.10	0.0011	>=-2.5 & <=2.5	Pass
			40	NV	2.90	0.0015	>=-2.5 & <=2.5	Pass



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DFT-s-OFDM 64 QAM	1882.5	Outer_Full	50	NV	3.50	0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-2.10	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	2.20	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	2.70	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	3.80	0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-0.50	-0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	2.00	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	5.80	0.0031	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-2.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	4.80	0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	3.00	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	2.00	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	0.80	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	2.10	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-0.80	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	2.70	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-2.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-1.50	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	3.90	0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	1.80	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	4.00	0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	4.10	0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	2.30	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	2.20	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	1.40	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	2.00	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-1.70	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	1.70	0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	3.90	0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	2.70	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	2.70	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	2.60	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	3.30	0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-2.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	2.60	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	1.90	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	2.00	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-1.40	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-0.90	-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-1.20	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	2.90	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	1.20	0.0006	$\geq -2.5$ & $\leq 2.5$	Pass			



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			40	NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-1.10	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.80	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-5.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.90	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-2.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-1.40	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass



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5. n38 Frequency Stability

5.1 15k\_SISO\_5MHz

5.1.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	2.70	0.0010	>=-2.5 & <=2.5	Pass
				HV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass
			-20	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
50	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-5.70	-0.0022	>=-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	2595	Outer_Full	20	LV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
50	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
				HV	1.50	0.0006	>=-2.5 & <=2.5	Pass
			-30	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	-0.70	-0.0003	>=-2.5 & <=2.5	Pass
			0	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-1.40	-0.0005	>=-2.5 & <=2.5	Pass
			30	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2595	Outer_Full	20	LV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			30	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
40	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass			



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			50	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
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5.2 15k\_SISO\_10MHz

5.2.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	2.10	0.0008	>=-2.5 & <=2.5	Pass
				HV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass
			-30	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	2.00	0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
50	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	-11.20	-0.0043	>=-2.5 & <=2.5	Pass
			-10	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			30	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
50	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
				HV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-10.20	-0.0039	>=-2.5 & <=2.5	Pass
			20	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			30	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
50	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			-30	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass



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DFT-s-OFDM 256 QAM	2595	Outer_Full	50	NV	-2.50	-0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	LV	-10.40	-0.0040	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-10.50	-0.0040	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-8.30	-0.0032	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-7.90	-0.0030	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-8.60	-0.0033	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-1.40	-0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-4.20	-0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.60	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-1.30	-0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
40	NV	1.20	0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
50	NV	-2.00	-0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
CP-OFDM QPSK	2595	Outer_Full	20	LV	-4.50	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-2.40	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-3.90	-0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-2.70	-0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-1.70	-0.0007	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-3.40	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-2.90	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-3.50	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-3.30	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-2.00	-0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass
50	NV	-3.30	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-5.20	-0.0020	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-7.30	-0.0028	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-5.40	-0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-4.20	-0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-5.70	-0.0022	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-6.10	-0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-3.80	-0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.40	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-3.70	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-5.00	-0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
50	NV	-4.90	-0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-4.10	-0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-6.00	-0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-6.70	-0.0026	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-4.50	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-6.10	-0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-6.70	-0.0026	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-7.80	-0.0030	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-6.10	-0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-4.30	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-6.60	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
50	NV	-5.20	-0.0020	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-5.50	-0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-5.30	-0.0020	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-5.10	-0.0020	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-5.50	-0.0021	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-4.80	-0.0018	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-3.50	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-4.30	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-4.30	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
30	NV	-4.40	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass			



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			40	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass

5.3 15k\_SISO\_15MHz

5.3.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
			-20	NV	-1.90	-0.0007	>=-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	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
50	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
50	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			20	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
			40	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
50	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-0.90	-0.0003	>=-2.5 & <=2.5	Pass
				HV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass
			0	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
30	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass			



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			40	NV	-4.50	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-3.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-3.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-0.90	-0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-2.90	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-2.20	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-2.00	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	2595	Outer_Full	20	LV	-8.10	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-8.70	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-10.30	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-9.80	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-9.70	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-10.20	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-6.60	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-8.60	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-10.40	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-7.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-9.60	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-9.30	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-10.40	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-7.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-10.40	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-9.40	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-9.80	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-8.90	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-8.10	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-8.30	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-10.30	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-9.90	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-9.20	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-8.50	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-5.80	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-9.30	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-7.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-9.80	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-4.70	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-2.80	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-5.20	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass



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			30	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass

## 5.4 15k\_SISO\_20MHz

### 5.4.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	1.30	0.0005	>=-2.5 & <=2.5	Pass
				HV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	3.20	0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	0.50	0.0002	>=-2.5 & <=2.5	Pass
			10	NV	3.30	0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-0.90	-0.0003	>=-2.5 & <=2.5	Pass
50	NV	3.90	0.0015	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
				HV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
50	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
				HV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			-10	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass



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			30	NV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-5.30	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	2.00	0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-1.60	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-3.10	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-0.80	-0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-1.70	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-2.20	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-2.30	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-2.30	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM QPSK	2595	Outer_Full	20	LV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.30	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-3.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-3.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.80	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.30	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-4.70	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-7.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-7.80	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.50	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.50	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-6.60	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			



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			20	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass

## 5.5 15k\_SISO\_25MHz

### 5.5.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-11.60	-0.0045	>=-2.5 & <=2.5	Pass
50	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
50	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
				HV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			-30	NV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			-20	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			10	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			20	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
			30	NV	-11.50	-0.0044	>=-2.5 & <=2.5	Pass
			40	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
50	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-12.90	-0.0050	>=-2.5 & <=2.5	Pass
				HV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			-10	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-11.00	-0.0042	>=-2.5 & <=2.5	Pass
10	NV	-10.60	-0.0041	>=-2.5 & <=2.5	Pass			



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			20	NV	-8.40	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-8.50	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.70	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.00	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-7.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-4.50	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	2595	Outer_Full	20	LV	-10.80	-0.0042	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-8.60	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-10.60	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-9.90	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-9.50	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-8.00	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.10	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-10.00	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-8.80	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-9.30	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-10.30	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-8.90	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-8.70	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-9.00	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-8.60	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-11.00	-0.0042	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-8.70	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-11.00	-0.0042	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-8.50	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-8.70	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-9.80	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-10.30	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-10.30	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-9.30	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-8.80	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-9.90	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-10.20	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-9.10	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.70	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-10.10	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-9.80	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-8.40	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.60	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			



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		10	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
		20	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
		30	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
		40	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
		50	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass

## 5.6 15k\_SISO\_30MHz

### 5.6.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-12.00	-0.0046	>=-2.5 & <=2.5	Pass
			0	NV	-12.90	-0.0050	>=-2.5 & <=2.5	Pass
			10	NV	-11.50	-0.0044	>=-2.5 & <=2.5	Pass
			20	NV	-11.50	-0.0044	>=-2.5 & <=2.5	Pass
			30	NV	-13.80	-0.0053	>=-2.5 & <=2.5	Pass
			40	NV	-15.00	-0.0058	>=-2.5 & <=2.5	Pass
50	NV	-12.70	-0.0049	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0038	>=-2.5 & <=2.5	Pass
			-10	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-10.80	-0.0042	>=-2.5 & <=2.5	Pass
			10	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
50	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
50	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass



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			10	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass			
			20	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass			
			30	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass			
			40	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass			
			50	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2595	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	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
						-20	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
						-10	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
						0	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
						10	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
						20	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
						30	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
						40	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
						50	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
HV	-6.40	-0.0025					>=-2.5 & <=2.5	Pass			
						-30	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
						-20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
						-10	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
						0	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
						10	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
						20	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
						30	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
						40	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
						50	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full				20	LV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			HV	-6.30	-0.0024		>=-2.5 & <=2.5	Pass			
						-30	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
						-20	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
						-10	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
						0	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
						10	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
						20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
						30	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
						40	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
						50	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
HV	-2.00	-0.0008					>=-2.5 & <=2.5	Pass			
						-30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
						-20	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
						-10	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
						0	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
						10	NV	-1.40	-0.0005	>=-2.5 & <=2.5	Pass
						20	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
						30	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
						40	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
						50	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full				20	LV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			HV	-6.50	-0.0025		>=-2.5 & <=2.5	Pass			
						-30	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
						-20	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
						-10	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass



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		0	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
		10	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
		20	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
		30	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
		40	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
		50	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass

## 5.7 15k\_SISO\_40MHz

### 5.7.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
				HV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-13.10	-0.0050	>=-2.5 & <=2.5	Pass
			-20	NV	-13.20	-0.0051	>=-2.5 & <=2.5	Pass
			-10	NV	-12.60	-0.0049	>=-2.5 & <=2.5	Pass
			0	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-12.20	-0.0047	>=-2.5 & <=2.5	Pass
			20	NV	-10.30	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-11.30	-0.0044	>=-2.5 & <=2.5	Pass
50	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
50	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-11.40	-0.0044	>=-2.5 & <=2.5	Pass
				HV	-13.30	-0.0051	>=-2.5 & <=2.5	Pass
			-30	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			-20	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-12.80	-0.0049	>=-2.5 & <=2.5	Pass
			0	NV	-10.80	-0.0042	>=-2.5 & <=2.5	Pass
			10	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
50	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-11.30	-0.0044	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass



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			0	NV	-8.90	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	-8.40	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-10.00	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-9.90	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-8.90	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-9.00	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-9.20	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-9.60	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass			
			-30	NV	-10.10	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass			
			-20	NV	-11.00	-0.0042	$\geq -2.5$ & $\leq 2.5$	Pass			
			-10	NV	-9.10	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass			
			0	NV	-7.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	-8.90	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-10.30	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-10.70	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-9.30	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-9.10	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass			
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-4.80	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						-30	NV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-5.00				-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
-10	NV	-5.20				-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
0	NV	-5.20				-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
10	NV	-6.60				-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass			
20	NV	-6.10				-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass			
30	NV	-7.50				-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass			
40	NV	-6.70				-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-9.40				-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	2595	Outer_Full				20	LV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-7.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
						-30	NV	-7.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			
			-10	NV	-7.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
			0	NV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-3.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-7.60	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-8.00	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass			
			CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						-30	NV	-5.20	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-3.40				-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
-10	NV	-5.10				-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
0	NV	-5.80				-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			
10	NV	-6.30				-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass			
20	NV	-7.70				-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass			
30	NV	-4.60				-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
40	NV	-5.90				-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-5.30				-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	2595	Outer_Full				20	LV	-5.20	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-6.00	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
						-30	NV	-4.70	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-7.80	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass			



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			-10	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			50	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass

## 5.8 30k\_SISO\_10MHz

### 5.8.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-14.60	-0.0056	>=-2.5 & <=2.5	Pass
			-20	NV	-12.60	-0.0049	>=-2.5 & <=2.5	Pass
			-10	NV	-12.60	-0.0049	>=-2.5 & <=2.5	Pass
			0	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			10	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-11.40	-0.0044	>=-2.5 & <=2.5	Pass
50	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
				HV	3.70	0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-11.10	-0.0043	>=-2.5 & <=2.5	Pass
			30	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-10.60	-0.0041	>=-2.5 & <=2.5	Pass
				HV	-11.40	-0.0044	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass



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			-10	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass			
			0	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass			
			10	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass			
			20	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass			
			30	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass			
			40	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass			
			50	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass			
				HV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass			
						-30	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
						-20	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
						-10	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
						0	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
						10	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
						20	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
						30	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
						40	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
						50	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
							HV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
									-30	NV	-7.80
						-20	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
						-10	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
						0	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
						10	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
						20	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
						30	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
						40	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
						50	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full				20	LV	4.40	0.0017	>=-2.5 & <=2.5	Pass
							HV	5.50	0.0021	>=-2.5 & <=2.5	Pass
									-30	NV	8.80
						-20	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
						-10	NV	3.90	0.0015	>=-2.5 & <=2.5	Pass
						0	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
						10	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
						20	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
						30	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
						40	NV	4.60	0.0018	>=-2.5 & <=2.5	Pass
						50	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2595	Outer_Full	20	LV	2.00	0.0008	>=-2.5 & <=2.5	Pass
							HV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass
									-30	NV	-2.20
						-20	NV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass
						-10	NV	4.20	0.0016	>=-2.5 & <=2.5	Pass
						0	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
						10	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
						20	NV	3.70	0.0014	>=-2.5 & <=2.5	Pass
						30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
						40	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
						50	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full				20	LV	1.50	0.0006	>=-2.5 & <=2.5	Pass
							HV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
									-30	NV	1.10



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			-20	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	3.20	0.0012	>=-2.5 & <=2.5	Pass
			0	NV	1.60	0.0006	>=-2.5 & <=2.5	Pass
			10	NV	3.80	0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			50	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass

## 5.9 30k\_SISO\_15MHz

### 5.9.1 Test Result

5G NR n38 SCS=30kHz 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	2595	Outer_Full	20	LV	3.00	0.0012	>=-2.5 & <=2.5	Pass
				HV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			-10	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			40	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-10.30	-0.0040	>=-2.5 & <=2.5	Pass
			0	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			40	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	2.10	0.0008	>=-2.5 & <=2.5	Pass
			20	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
50	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass



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			-20	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-1.50	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.30	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-1.70	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-3.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-0.70	-0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-2.30	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-2.00	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.50	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-4.80	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-1.80	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-10.20	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM QPSK	2595	Outer_Full	20	LV	-1.10
	HV	-3.80				-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
-30	NV	2.20				0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-1.20				-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
-10	NV	-3.70				-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-4.20				-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-1.50				-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
20	NV	-2.00				-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	3.50				0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	2.80				0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-2.60	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.00	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-2.00	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-2.60	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-3.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-1.60	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-2.90	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-3.00	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-2.90	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-0.60	-0.0002	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass



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			-30	NV	3.00	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-1.00	-0.0004	>=-2.5 & <=2.5	Pass
			-10	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			50	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass

5.10 30k\_SISO\_20MHz

5.10.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			-30	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
50	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	3.40	0.0013	>=-2.5 & <=2.5	Pass
				HV	1.20	0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	3.20	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	2.00	0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	1.60	0.0006	>=-2.5 & <=2.5	Pass
			10	NV	4.90	0.0019	>=-2.5 & <=2.5	Pass
			20	NV	6.10	0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
50	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
				HV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	3.70	0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	0.90	0.0003	>=-2.5 & <=2.5	Pass
			0	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			10	NV	3.30	0.0013	>=-2.5 & <=2.5	Pass
			20	NV	6.60	0.0025	>=-2.5 & <=2.5	Pass
			30	NV	3.30	0.0013	>=-2.5 & <=2.5	Pass
			40	NV	4.40	0.0017	>=-2.5 & <=2.5	Pass
50	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	2.50	0.0010	>=-2.5 & <=2.5	Pass
				HV	4.00	0.0015	>=-2.5 & <=2.5	Pass



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			-30	NV	3.70	0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			40	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			50	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	0.80	0.0003	>=-2.5 & <=2.5	Pass
				HV	4.10	0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	1.40	0.0005	>=-2.5 & <=2.5	Pass
			-20	NV	0.80	0.0003	>=-2.5 & <=2.5	Pass
			-10	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	3.70	0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
			30	NV	2.20	0.0008	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2595	Outer_Full	20	LV	4.50	0.0017	>=-2.5 & <=2.5	Pass
				HV	2.40	0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	7.10	0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	3.40	0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	1.20	0.0005	>=-2.5 & <=2.5	Pass
			10	NV	6.40	0.0025	>=-2.5 & <=2.5	Pass
			20	NV	3.90	0.0015	>=-2.5 & <=2.5	Pass
			30	NV	2.00	0.0008	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	2.90	0.0011	>=-2.5 & <=2.5	Pass
				HV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	3.10	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	3.50	0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
			10	NV	2.40	0.0009	>=-2.5 & <=2.5	Pass
			20	NV	3.90	0.0015	>=-2.5 & <=2.5	Pass
			30	NV	2.70	0.0010	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	4.40	0.0017	>=-2.5 & <=2.5	Pass
				HV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	5.90	0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	3.10	0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	3.80	0.0015	>=-2.5 & <=2.5	Pass
			10	NV	3.70	0.0014	>=-2.5 & <=2.5	Pass
			20	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			30	NV	3.60	0.0014	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2595	Outer_Full	20	NV	3.80	0.0015	>=-2.5 & <=2.5	Pass
			40	NV	3.80	0.0015	>=-2.5 & <=2.5	Pass
			50	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
			20	LV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass



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				HV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-2.00	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-1.60	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-2.60	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-1.70	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-2.80	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-1.50	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass

## 5.11 30k\_SISO\_25MHz

### 5.11.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-7.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.80	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	-2.70	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	-6.50	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-9.80	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	-7.90	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-5.30	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-3.00	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	-8.80	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	-5.80	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-10.40	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	-7.60	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-3.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-7.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.50	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	-1.80	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	6.00	0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	4.10	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-2.20	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	3.80	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-2.60	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	2.30	0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	4.10	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
	NV	4.10	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass



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				HV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-1.50	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-2.60	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	2.50	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-1.80	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-4.20	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	2.80	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	3.90	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	2.10	0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2595	Outer_Full	50	NV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-4.70	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.80	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.30	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.20	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM QPSK	2595	Outer_Full	30	NV	-8.00	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-3.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.20	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	2.40	0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.90	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	2595	Outer_Full	10	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-4.70	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-4.80	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-2.60	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-4.00	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.70	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 64 QAM	2595	Outer_Full	-10	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-2.90	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-2.20	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.80	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-1.40	-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-1.80	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass



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CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
50	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass			

## 5.12 30k\_SISO\_30MHz

### 5.12.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0038	>=-2.5 & <=2.5	Pass
			-10	NV	-10.90	-0.0042	>=-2.5 & <=2.5	Pass
			0	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			40	NV	-11.10	-0.0043	>=-2.5 & <=2.5	Pass
50	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	3.20	0.0012	>=-2.5 & <=2.5	Pass
				HV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	2.10	0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	3.60	0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
50	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
				HV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
50	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 64 QAM	2595	Outer_Full	20	LV	-11.00	-0.0042	>=-2.5 & <=2.5	Pass
				HV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
40	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass			
50	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	3.30	0.0013	>=-2.5 & <=2.5	Pass
				HV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			10	NV	4.60	0.0018	>=-2.5 & <=2.5	Pass
			20	NV	1.90	0.0007	>=-2.5 & <=2.5	Pass
			30	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
40	NV	2.20	0.0008	>=-2.5 & <=2.5	Pass			
50	NV	5.00	0.0019	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	2595	Outer_Full	20	LV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
40	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass			
50	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-4.70	-0.0018	>=-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	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
40	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass			
50	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-4.80	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-1.30	-0.0005	>=-2.5 & <=2.5	Pass
			0	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
40	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass			



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CP-OFDM 256 QAM	2595	Outer_Full	50	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			20	LV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass			

5.13 30k\_SISO\_40MHz

5.13.1 Test Result

5G NR n38 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	2595	Outer_Full	20	LV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			50	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2595	Outer_Full	20	LV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
				HV	2.70	0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	4.60	0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-0.60	-0.0002	>=-2.5 & <=2.5	Pass
			-10	NV	1.80	0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			20	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
			50	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2595	Outer_Full	20	LV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass



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DFT-s-OFDM 64 QAM	2595	Outer_Full	50	NV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-6.00	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-6.80	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-7.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.30	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-8.30	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-3.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-5.80	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	2595	Outer_Full	20	LV	-3.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-7.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.30	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-6.30	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	2595	Outer_Full	20	LV	-4.80	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.00	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-6.60	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-4.70	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-4.50	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	2595	Outer_Full	20	LV	-1.40	-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-6.60	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.00	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-7.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.80	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	2595	Outer_Full	20	LV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-1.70	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	1.50	0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-3.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-4.20	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-3.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-3.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass			



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			40	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	2595	Outer_Full	20	LV	-5.20	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-4.70	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-4.00	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.00	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.10	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-2.80	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-3.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.10	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass



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6. n41 Frequency Stability

6.1 15k\_SISO\_10MHz

6.1.1 Test Result

5G NR n41 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	2593.005	Outer_Full	20	LV	3.40	0.0013	>=-2.5 & <=2.5	Pass
				HV	3.10	0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
				NV	2.10	0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	2.30	0.0009	>=-2.5 & <=2.5	Pass
				NV	1.20	0.0005	>=-2.5 & <=2.5	Pass
			0	NV	1.40	0.0005	>=-2.5 & <=2.5	Pass
				NV	2.20	0.0008	>=-2.5 & <=2.5	Pass
			20	NV	2.70	0.0010	>=-2.5 & <=2.5	Pass
				NV	1.70	0.0007	>=-2.5 & <=2.5	Pass
50	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass			
	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2593.005	Outer_Full	20	LV	1.30	0.0005	>=-2.5 & <=2.5	Pass
				HV	3.50	0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	4.20	0.0016	>=-2.5 & <=2.5	Pass
				NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
				NV	2.20	0.0008	>=-2.5 & <=2.5	Pass
			0	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
				NV	1.40	0.0005	>=-2.5 & <=2.5	Pass
			20	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
				NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
40	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass			
	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2593.005	Outer_Full	20	LV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
				HV	1.10	0.0004	>=-2.5 & <=2.5	Pass
			-30	NV	4.20	0.0016	>=-2.5 & <=2.5	Pass
				NV	3.80	0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	1.90	0.0007	>=-2.5 & <=2.5	Pass
				NV	3.50	0.0013	>=-2.5 & <=2.5	Pass
			0	NV	4.10	0.0016	>=-2.5 & <=2.5	Pass
				NV	1.90	0.0007	>=-2.5 & <=2.5	Pass
			20	NV	3.20	0.0012	>=-2.5 & <=2.5	Pass
				NV	3.80	0.0015	>=-2.5 & <=2.5	Pass
40	NV	2.70	0.0010	>=-2.5 & <=2.5	Pass			
	NV	2.70	0.0010	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2593.005	Outer_Full	20	LV	0.90	0.0003	>=-2.5 & <=2.5	Pass
				HV	2.60	0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	3.70	0.0014	>=-2.5 & <=2.5	Pass
				NV	2.40	0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	3.90	0.0015	>=-2.5 & <=2.5	Pass
				NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	2.40	0.0009	>=-2.5 & <=2.5	Pass
				NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			20	NV	2.90	0.0011	>=-2.5 & <=2.5	Pass
				NV	2.10	0.0008	>=-2.5 & <=2.5	Pass
40	NV	3.10	0.0012	>=-2.5 & <=2.5	Pass			
	NV	3.10	0.0012	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 256 QAM	2593.005	Outer_Full	20	LV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass
			-30	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2593.005	Outer_Full	20	LV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2593.005	Outer_Full	20	LV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
				HV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-1.40	-0.0005	>=-2.5 & <=2.5	Pass
			10	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
			30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2593.005	Outer_Full	20	LV	-4.50	-0.0017	>=-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	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	0.60	0.0002	>=-2.5 & <=2.5	Pass
			30	NV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2593.005	Outer_Full	20	LV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	1.20	0.0005	>=-2.5 & <=2.5	Pass
			-20	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			20	NV	1.10	0.0004	>=-2.5 & <=2.5	Pass
			30	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
40	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass			



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			50	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
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## 6.2 15k\_SISO\_15MHz

### 6.2.1 Test Result

5G NR n41 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	2593.005	Outer_Full	20	LV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
				HV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2593.005	Outer_Full	20	LV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2593.005	Outer_Full	20	LV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
				HV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	3.20	0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2593.005	Outer_Full	20	LV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	3.20	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
			40	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass



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DFT-s-OFDM 256 QAM	2593.005	Outer_Full	50	NV	-2.50	-0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	LV	-1.50	-0.0006	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-3.60	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-3.30	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-2.00	-0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	1.70	0.0007	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-1.90	-0.0007	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-2.50	-0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-1.70	-0.0007	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	-1.10	-0.0004	$\geq -2.5 \ \& \ \leq 2.5$	Pass
40	NV	-4.60	-0.0018	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
50	NV	-2.00	-0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
CP-OFDM QPSK	2593.005	Outer_Full	20	LV	2.70	0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	3.70	0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	1.20	0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	0.90	0.0003	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	2.80	0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	2.70	0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	2.20	0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	0.90	0.0003	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	1.50	0.0006	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	2.40	0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
50	NV	-2.00	-0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
CP-OFDM 16 QAM	2593.005	Outer_Full	20	LV	1.90	0.0007	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	2.60	0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-0.70	-0.0003	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-1.20	-0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	2.00	0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	3.50	0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	2.80	0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-1.00	-0.0004	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	1.60	0.0006	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	-0.50	-0.0002	$\geq -2.5 \ \& \ \leq 2.5$	Pass
50	NV	-2.50	-0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
CP-OFDM 64 QAM	2593.005	Outer_Full	20	LV	2.70	0.0010	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	2.10	0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	4.40	0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	3.10	0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	4.70	0.0018	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	3.20	0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	4.80	0.0019	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	4.20	0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			30	NV	3.60	0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			40	NV	1.70	0.0007	$\geq -2.5 \ \& \ \leq 2.5$	Pass
50	NV	-2.20	-0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
CP-OFDM 256 QAM	2593.005	Outer_Full	20	LV	-8.70	-0.0034	$\geq -2.5 \ \& \ \leq 2.5$	Pass
				HV	-6.10	-0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-30	NV	-9.20	-0.0035	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-20	NV	-6.60	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			-10	NV	-3.50	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			0	NV	-7.10	-0.0027	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			10	NV	-8.80	-0.0034	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			20	NV	-6.50	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
30	NV	-5.10	-0.0020	$\geq -2.5 \ \& \ \leq 2.5$	Pass			



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			40	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			50	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass

6.3 15k\_SISO\_20MHz

6.3.1 Test Result

5G NR n41 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	2593.005	Outer_Full	20	LV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	3.80	0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-0.70	-0.0003	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2593.005	Outer_Full	20	LV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2593.005	Outer_Full	20	LV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2593.005	Outer_Full	20	LV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
30	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass			



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			40	NV	-11.40	-0.0044	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-7.90	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	2593.005	Outer_Full	20	LV	3.50	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	3.20	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	5.10	0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-1.10	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	5.80	0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	2.70	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	3.30	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	3.10	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	2.50	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	3.40	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	3.10	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM QPSK	2593.005	Outer_Full	20	LV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-5.30	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-2.90	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.00	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-1.40	-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	2593.005	Outer_Full	20	LV	-1.90	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-0.90	-0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-4.50	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-4.00	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-3.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-3.10	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 64 QAM	2593.005	Outer_Full	20	LV	-4.70	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-3.00	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.10	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.00	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-1.80	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-2.30	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-4.20	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-1.40	-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	2593.005	Outer_Full	20	LV	-6.00	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-2.90	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-1.80	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	0.80	0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	1.40	0.0005	$\geq -2.5$ & $\leq 2.5$	Pass



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			30	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			50	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass

6.4 15k\_SISO\_30MHz

6.4.1 Test Result

5G NR n41 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	2593.005	Outer_Full	20	LV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
				HV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2593.005	Outer_Full	20	LV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
50	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2593.005	Outer_Full	20	LV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			40	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2593.005	Outer_Full	20	LV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			20	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass



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			30	NV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	2593.005	Outer_Full	20	LV	-7.80	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-7.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-7.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-7.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-8.10	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-6.50	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-9.90	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-7.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	2593.005	Outer_Full	20	LV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-5.80	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-8.00	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-5.80	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	2593.005	Outer_Full	20	LV	-7.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-5.30	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-8.00	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-6.60	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-5.80	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	1.60	0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	3.30	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	2593.005	Outer_Full	20	LV	4.30	0.0017	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.10	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	3.30	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	5.60	0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	1.60	0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	4.40	0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	1.40	0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	2.30	0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	2593.005	Outer_Full	20	LV	-2.00	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-1.40	-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	2.30	0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	3.20	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	4.00	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	1.10	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass			



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			20	NV	3.50	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-2.80	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	4.10	0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	2.30	0.0009	$\geq -2.5$ & $\leq 2.5$	Pass

## 6.5 15k\_SISO\_40MHz

### 6.5.1 Test Result

5G NR n41 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	2593.005	Outer_Full	20	LV	-8.40	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-8.50	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-9.40	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.80	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-3.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM QPSK	2593.005	Outer_Full	20	LV	-7.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.30	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-8.40	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.60	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-7.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-8.90	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-7.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 16 QAM	2593.005	Outer_Full	20	LV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-8.30	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.80	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 64 QAM	2593.005	Outer_Full	20	LV	-6.80	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-7.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			



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			20	NV	-7.90	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-8.10	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-6.30	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	2593.005	Outer_Full	20	LV	-7.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-1.80	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-0.90	-0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-2.60	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	2593.005	Outer_Full	20	LV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-1.90	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-1.90	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-1.70	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	2593.005	Outer_Full	20	LV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-4.00	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-2.90	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.00	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-4.00	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.00	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	2593.005	Outer_Full	20	LV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-4.70	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-2.20	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	2593.005	Outer_Full	20	LV	-7.80	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-7.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-7.90	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-8.90	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass			



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		10	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
		20	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
		30	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
		40	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
		50	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass

## 6.6 15k\_SISO\_50MHz

### 6.6.1 Test Result

5G NR n41 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	2593.005	Outer_Full	20	LV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	1.30	0.0005	>=-2.5 & <=2.5	Pass
			10	NV	3.60	0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-0.80	-0.0003	>=-2.5 & <=2.5	Pass
50	NV	3.90	0.0015	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2593.005	Outer_Full	20	LV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			-10	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
50	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2593.005	Outer_Full	20	LV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	2.60	0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
50	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2593.005	Outer_Full	20	LV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
0	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass			



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			10	NV	-4.70	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-5.00	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	2593.005	Outer_Full	20	LV	-10.00	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-10.30	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-8.10	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-8.90	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-7.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-8.30	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-6.00	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-7.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-7.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-9.70	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	2593.005	Outer_Full	20	LV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-7.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-4.50	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	2593.005	Outer_Full	20	LV	-2.30	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	2593.005	Outer_Full	20	LV	-5.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-4.00	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-7.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	2593.005	Outer_Full	20	LV	-9.10	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-6.80	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-8.90	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-9.40	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass



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		0	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
		10	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
		20	NV	4.20	0.0016	>=-2.5 & <=2.5	Pass
		30	NV	1.50	0.0006	>=-2.5 & <=2.5	Pass
		40	NV	5.10	0.0020	>=-2.5 & <=2.5	Pass
		50	NV	2.10	0.0008	>=-2.5 & <=2.5	Pass

## 6.7 30k\_SISO\_10MHz

### 6.7.1 Test Result

5G NR n41 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	2592.99	Outer_Full	20	LV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-10.60	-0.0041	>=-2.5 & <=2.5	Pass
			-20	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-12.80	-0.0049	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
			40	NV	-12.90	-0.0050	>=-2.5 & <=2.5	Pass
50	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-12.60	-0.0049	>=-2.5 & <=2.5	Pass
				HV	-12.70	-0.0049	>=-2.5 & <=2.5	Pass
			-30	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-10.30	-0.0040	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	-12.20	-0.0047	>=-2.5 & <=2.5	Pass
			30	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			40	NV	-10.80	-0.0042	>=-2.5 & <=2.5	Pass
50	NV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			-20	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-10.90	-0.0042	>=-2.5 & <=2.5	Pass
			0	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
50	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass



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			0	NV	-4.20	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-4.20	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-6.30	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-9.50	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.00	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-2.30
HV	3.00	0.0012					$\geq -2.5$ & $\leq 2.5$	Pass
-30	NV	-3.60				-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	1.60				0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
-10	NV	-2.70				-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-2.80				-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-0.50				-0.0002	$\geq -2.5$ & $\leq 2.5$	Pass
20	NV	-3.30				-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-3.80				-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	3.60				0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-3.80				-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	2592.99	Outer_Full				20	LV	2.10
			HV	-4.80	-0.0019		$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-2.60	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-3.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-4.20	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-3.10
HV	-3.20	-0.0012					$\geq -2.5$ & $\leq 2.5$	Pass
-30	NV	-2.50				-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	3.80				0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
-10	NV	-6.10				-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-3.80				-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-4.40				-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
20	NV	-4.00				-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-3.30				-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-4.50				-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-3.90				-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full				20	LV	-5.40
			HV	-4.80	-0.0019		$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.30	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass



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			-10	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass

## 6.8 30k\_SISO\_15MHz

### 6.8.1 Test Result

5G NR n41 SCS=30kHz 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	2592.99	Outer_Full	20	LV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			-10	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-11.80	-0.0046	>=-2.5 & <=2.5	Pass
			20	NV	-13.40	-0.0052	>=-2.5 & <=2.5	Pass
			30	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-11.90	-0.0046	>=-2.5 & <=2.5	Pass
50	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
				HV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
			-10	NV	-12.40	-0.0048	>=-2.5 & <=2.5	Pass
			0	NV	-11.50	-0.0044	>=-2.5 & <=2.5	Pass
			10	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-12.60	-0.0049	>=-2.5 & <=2.5	Pass
50	NV	-14.80	-0.0057	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass
				HV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-12.20	-0.0047	>=-2.5 & <=2.5	Pass
			40	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
50	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass



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			-10	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass			
			0	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass			
			10	NV	-9.90	-0.0038	>=-2.5 & <=2.5	Pass			
			20	NV	-10.50	-0.0040	>=-2.5 & <=2.5	Pass			
			30	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass			
			40	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass			
			50	NV	-12.90	-0.0050	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass			
				HV	-12.10	-0.0047	>=-2.5 & <=2.5	Pass			
						-30	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
						-20	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
						-10	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
						0	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
						10	NV	-9.80	-0.0038	>=-2.5 & <=2.5	Pass
						20	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
						30	NV	-11.40	-0.0044	>=-2.5 & <=2.5	Pass
						40	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
						50	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
							HV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
									-30	NV	-5.80
						-20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
						-10	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
						0	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
						10	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
						20	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
						30	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
						40	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
						50	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2592.99	Outer_Full				20	LV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
							HV	-1.40	-0.0005	>=-2.5 & <=2.5	Pass
									-30	NV	-7.80
						-20	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
						-10	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
						0	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
						10	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
						20	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
						30	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
						40	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
						50	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
							HV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
									-30	NV	-8.10
						-20	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
						-10	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
						0	NV	-4.20	-0.0016	>=-2.5 & <=2.5	Pass
						10	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
						20	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
						30	NV	-3.70	-0.0014	>=-2.5 & <=2.5	Pass
						40	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
						50	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full				20	LV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
							HV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
									-30	NV	1.80



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			-20	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			0	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	2.40	0.0009	>=-2.5 & <=2.5	Pass
			20	NV	-5.70	-0.0022	>=-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	-3.80	-0.0015	>=-2.5 & <=2.5	Pass

## 6.9 30k\_SISO\_20MHz

### 6.9.1 Test Result

5G NR n41 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	2592.99	Outer_Full	20	LV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			-30	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
			30	NV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-11.10	-0.0043	>=-2.5 & <=2.5	Pass
			0	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-9.00	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
50	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-12.60	-0.0049	>=-2.5 & <=2.5	Pass
				HV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-12.90	-0.0050	>=-2.5 & <=2.5	Pass
			40	NV	-12.30	-0.0047	>=-2.5 & <=2.5	Pass
50	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass



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			-20	NV	-9.10	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-13.80	-0.0053	>=-2.5 & <=2.5	Pass
			0	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-11.30	-0.0044	>=-2.5 & <=2.5	Pass
			30	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			40	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			50	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-12.00	-0.0046	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			-10	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-10.40	-0.0040	>=-2.5 & <=2.5	Pass
			20	NV	-9.30	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-12.20	-0.0047	>=-2.5 & <=2.5	Pass
			40	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-3.40
	HV	-2.80				-0.0011	>=-2.5 & <=2.5	Pass
-30	NV	-4.10				-0.0016	>=-2.5 & <=2.5	Pass
-20	NV	-5.40				-0.0021	>=-2.5 & <=2.5	Pass
-10	NV	-4.20				-0.0016	>=-2.5 & <=2.5	Pass
0	NV	-3.70				-0.0014	>=-2.5 & <=2.5	Pass
10	NV	-3.50				-0.0013	>=-2.5 & <=2.5	Pass
20	NV	-6.90				-0.0027	>=-2.5 & <=2.5	Pass
30	NV	-5.50				-0.0021	>=-2.5 & <=2.5	Pass
40	NV	-6.10				-0.0024	>=-2.5 & <=2.5	Pass
50	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-11.40	-0.0044	>=-2.5 & <=2.5	Pass
			20	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
50	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass
			10	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
50	NV	-3.20	-0.0012	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-10.20	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass



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			-30	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
			30	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			50	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass

## 6.10 30k\_SISO\_30MHz

### 6.10.1 Test Result

5G NR n41 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	2592.99	Outer_Full	20	LV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
				HV	-8.50	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-11.30	-0.0044	>=-2.5 & <=2.5	Pass
			0	NV	-10.30	-0.0040	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-10.60	-0.0041	>=-2.5 & <=2.5	Pass
			30	NV	-10.30	-0.0040	>=-2.5 & <=2.5	Pass
			40	NV	-9.40	-0.0036	>=-2.5 & <=2.5	Pass
50	NV	-7.90	-0.0030	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-9.60	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
50	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-10.80	-0.0042	>=-2.5 & <=2.5	Pass
			0	NV	-9.20	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-5.50	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
50	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass



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