

Appendix for KSCR2207001267AT-FCC-NR-Frequency Stability

1. n2 Frequency Stability

1.1 15k\_SISO\_5MHz

1.1.1 Test Result

5G NR n2 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	1880	Outer_Full	20	LV	-9.90	-0.0053	>=-2.5 & <=2.5	Pass
				HV	-8.10	-0.0043	>=-2.5 & <=2.5	Pass
			-30	NV	-10.70	-0.0057	>=-2.5 & <=2.5	Pass
				NV	-4.80	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-6.10	-0.0032	>=-2.5 & <=2.5	Pass
				NV	-0.90	-0.0005	>=-2.5 & <=2.5	Pass
			10	NV	-8.70	-0.0046	>=-2.5 & <=2.5	Pass
				NV	-10.20	-0.0054	>=-2.5 & <=2.5	Pass
			30	NV	-8.10	-0.0043	>=-2.5 & <=2.5	Pass
				NV	-9.70	-0.0052	>=-2.5 & <=2.5	Pass
50	NV	-8.80	-0.0047	>=-2.5 & <=2.5	Pass			
	20	Outer_Full	20	LV	-1.40	-0.0007	>=-2.5 & <=2.5	Pass
HV				-4.00	-0.0021	>=-2.5 & <=2.5	Pass	
DFT-s-OFDM QPSK	1880	Outer_Full	-30	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
				NV	-1.20	-0.0006	>=-2.5 & <=2.5	Pass
			-10	NV	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
				NV	-1.10	-0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-1.00	-0.0005	>=-2.5 & <=2.5	Pass
				NV	-2.10	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
				NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
			50	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
				20	Outer_Full	20	LV	-3.50
HV	-2.20	-0.0012	>=-2.5 & <=2.5				Pass	
DFT-s-OFDM 16 QAM	1880	Outer_Full	-30	NV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
				NV	-2.60	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-1.80	-0.0010	>=-2.5 & <=2.5	Pass
				NV	-1.60	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
				NV	-3.00	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-1.70	-0.0009	>=-2.5 & <=2.5	Pass
				NV	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
			50	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
				20	Outer_Full	20	LV	-1.80
HV	-4.40	-0.0023	>=-2.5 & <=2.5				Pass	
DFT-s-OFDM 64 QAM	1880	Outer_Full	-30	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
				NV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-1.50	-0.0008	>=-2.5 & <=2.5	Pass
				NV	-2.20	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
				20	NV	-2.60	-0.0014	>=-2.5 & <=2.5



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			30	NV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-3.70	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	1880	Outer_Full	20	LV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-6.70	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-7.00	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-7.30	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-6.80	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-6.10	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-7.80	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-6.90	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-5.90	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-6.70	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-6.40	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM QPSK	1880	Outer_Full	20	LV	-1.50	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-3.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-1.10	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-2.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-2.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-2.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-1.10	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	1880	Outer_Full	20	LV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-2.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-1.60	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-3.70	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-1.40	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 64 QAM	1880	Outer_Full	20	LV	-3.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-1.90	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-0.70	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-2.00	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.90	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-1.60	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-2.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	1880	Outer_Full	20	LV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.90	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-4.00	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			



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			20	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass

## 1.2 15k\_SISO\_10MHz

### 1.2.1 Test Result

5G NR n2 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	1880	Outer_Full	20	LV	3.10	0.0016	>=-2.5 & <=2.5	Pass
				HV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-7.80	-0.0041	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0045	>=-2.5 & <=2.5	Pass
			20	NV	-9.50	-0.0051	>=-2.5 & <=2.5	Pass
			30	NV	-12.10	-0.0064	>=-2.5 & <=2.5	Pass
			40	NV	-8.20	-0.0044	>=-2.5 & <=2.5	Pass
50	NV	-11.30	-0.0060	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1880	Outer_Full	20	LV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-2.10	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
			-10	NV	-2.60	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-4.90	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-2.10	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-2.20	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-1.50	-0.0008	>=-2.5 & <=2.5	Pass
50	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1880	Outer_Full	20	LV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
			-20	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-5.70	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-5.00	-0.0027	>=-2.5 & <=2.5	Pass
50	NV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1880	Outer_Full	20	LV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
10	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass			



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			20	NV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-4.80	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-4.00	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	1880	Outer_Full	20	LV	-5.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-5.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-4.50	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.90	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-5.90	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-5.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-6.30	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-6.50	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	1880	Outer_Full	20	LV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	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	-4.90	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-6.30	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-5.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-4.90	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.30	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	1880	Outer_Full	20	LV	-3.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-1.30	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-1.40	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-2.10	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-0.80	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-0.70	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-0.60	-0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	1880	Outer_Full	20	LV	-2.00	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-1.10	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-2.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	1.00	0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	0.70	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	0.80	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	0.60	0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-3.30	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-2.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-1.10	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	1880	Outer_Full	20	LV	-5.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-3.30	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			



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			10	NV	-2.20	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
			30	NV	-2.50	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			50	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass

## 1.3 15k\_SISO\_15MHz

### 1.3.1 Test Result

5G NR n2 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	1880	Outer_Full	20	LV	-6.70	-0.0036	>=-2.5 & <=2.5	Pass
				HV	-10.00	-0.0053	>=-2.5 & <=2.5	Pass
			-30	NV	-6.70	-0.0036	>=-2.5 & <=2.5	Pass
				NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-6.90	-0.0037	>=-2.5 & <=2.5	Pass
				NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-4.80	-0.0026	>=-2.5 & <=2.5	Pass
				NV	-6.00	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-5.80	-0.0031	>=-2.5 & <=2.5	Pass
				NV	-5.90	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-7.70	-0.0041	>=-2.5 & <=2.5	Pass			
	NV	-7.70	-0.0041	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1880	Outer_Full	20	LV	-10.00	-0.0053	>=-2.5 & <=2.5	Pass
				HV	-10.40	-0.0055	>=-2.5 & <=2.5	Pass
			-30	NV	-10.10	-0.0054	>=-2.5 & <=2.5	Pass
				NV	-7.30	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-10.60	-0.0056	>=-2.5 & <=2.5	Pass
				NV	-7.00	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-10.60	-0.0056	>=-2.5 & <=2.5	Pass
				NV	-8.60	-0.0046	>=-2.5 & <=2.5	Pass
			30	NV	-10.70	-0.0057	>=-2.5 & <=2.5	Pass
				NV	-5.80	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-6.50	-0.0035	>=-2.5 & <=2.5	Pass			
	NV	-6.50	-0.0035	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1880	Outer_Full	20	LV	-5.60	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0033	>=-2.5 & <=2.5	Pass
				NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
				NV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0036	>=-2.5 & <=2.5	Pass
				NV	-6.20	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0046	>=-2.5 & <=2.5	Pass
				NV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass			
	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1880	Outer_Full	20	LV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-6.50	-0.0035	>=-2.5 & <=2.5	Pass
				NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-3.00	-0.0016	>=-2.5 & <=2.5	Pass
				NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass



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			10	NV	-7.30	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-5.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	1880	Outer_Full	20	LV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-7.40	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-9.70	-0.0052	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-9.20	-0.0049	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-12.20	-0.0065	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-10.10	-0.0054	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-10.60	-0.0056	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-10.50	-0.0056	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-9.80	-0.0052	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-8.70	-0.0046	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-10.00	-0.0053	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	1880	Outer_Full	20	LV	-6.20	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-7.80	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-9.90	-0.0053	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-8.60	-0.0046	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-8.90	-0.0047	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-7.20	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-1.70	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-1.90	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	1.60	0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	1880	Outer_Full	20	LV	-4.00	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-1.80	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-1.90	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-2.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-2.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-2.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	1880	Outer_Full	20	LV	-5.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-0.50	-0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-5.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
						10	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
						30	NV	-2.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.70	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	1880	Outer_Full	20	LV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-6.20	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-5.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-3.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.50	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass



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			0	NV	-3.20	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-6.50	-0.0035	>=-2.5 & <=2.5	Pass
			20	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-7.20	-0.0038	>=-2.5 & <=2.5	Pass
			50	NV	-7.60	-0.0040	>=-2.5 & <=2.5	Pass

## 1.4 15k\_SISO\_20MHz

### 1.4.1 Test Result

5G NR n2 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	1880	Outer_Full	20	LV	-9.70	-0.0052	>=-2.5 & <=2.5	Pass
				HV	-10.00	-0.0053	>=-2.5 & <=2.5	Pass
			-30	NV	-11.80	-0.0063	>=-2.5 & <=2.5	Pass
			-20	NV	-12.10	-0.0064	>=-2.5 & <=2.5	Pass
			-10	NV	-10.40	-0.0055	>=-2.5 & <=2.5	Pass
			0	NV	-8.60	-0.0046	>=-2.5 & <=2.5	Pass
			10	NV	-12.00	-0.0064	>=-2.5 & <=2.5	Pass
			20	NV	-8.10	-0.0043	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0048	>=-2.5 & <=2.5	Pass
			40	NV	-9.40	-0.0050	>=-2.5 & <=2.5	Pass
50	NV	-8.60	-0.0046	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1880	Outer_Full	20	LV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-4.80	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-7.10	-0.0038	>=-2.5 & <=2.5	Pass
			30	NV	-7.00	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1880	Outer_Full	20	LV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-7.20	-0.0038	>=-2.5 & <=2.5	Pass
			-20	NV	-5.70	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-3.20	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-3.00	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-6.80	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-6.90	-0.0037	>=-2.5 & <=2.5	Pass
50	NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1880	Outer_Full	20	LV	-6.70	-0.0036	>=-2.5 & <=2.5	Pass
				HV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	2.20	0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-5.70	-0.0030	>=-2.5 & <=2.5	Pass
-10	NV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass			



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 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn  
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			0	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-4.90	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-7.60	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.90	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	1880	Outer_Full	20	LV	-6.00	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-9.20	-0.0049	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-9.20	-0.0049	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-10.80	-0.0057	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-10.70	-0.0057	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-8.20	-0.0044	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-10.70	-0.0057	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-12.70	-0.0068	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-10.30	-0.0055	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-10.70	-0.0057	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM QPSK	1880	Outer_Full	20	LV	-7.70
	HV	-7.70				-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass
-30	NV	-6.10				-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-4.00				-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
-10	NV	1.70				0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-0.90				-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-3.90				-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
20	NV	-5.30				-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-7.60				-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-9.40				-0.0050	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-10.10				-0.0054	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	1880	Outer_Full				20	LV	-4.60
				HV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-8.00	-0.0043	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-3.30	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.70	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.00	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-7.60	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.50	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-8.30	-0.0044	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-7.90	-0.0042	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-5.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM 64 QAM	1880	Outer_Full	20	LV	-2.20
	HV	0.50				0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
-30	NV	-3.70				-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-4.70				-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
-10	NV	-3.70				-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-3.40				-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-3.40				-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
20	NV	-3.40				-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-3.30				-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-3.00				-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-1.30				-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	1880	Outer_Full				20	LV	-2.80
				HV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.40	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass



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 中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

888-512157350888 886-512157370911 www.sgs.com.cn  
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			-10	NV	-5.80	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-8.80	-0.0047	>=-2.5 & <=2.5	Pass
			20	NV	-5.90	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-5.00	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0028	>=-2.5 & <=2.5	Pass
			50	NV	-4.50	-0.0024	>=-2.5 & <=2.5	Pass

## 1.5 30k\_SISO\_10MHz

### 1.5.1 Test Result

5G NR n2 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	1880	Outer_Full	20	LV	-17.60	-0.0094	>=-2.5 & <=2.5	Pass
				HV	-22.40	-0.0119	>=-2.5 & <=2.5	Pass
			-30	NV	-20.90	-0.0111	>=-2.5 & <=2.5	Pass
			-20	NV	-18.40	-0.0098	>=-2.5 & <=2.5	Pass
			-10	NV	-13.60	-0.0072	>=-2.5 & <=2.5	Pass
			0	NV	-13.50	-0.0072	>=-2.5 & <=2.5	Pass
			10	NV	-10.70	-0.0057	>=-2.5 & <=2.5	Pass
			20	NV	-12.50	-0.0066	>=-2.5 & <=2.5	Pass
			30	NV	-8.50	-0.0045	>=-2.5 & <=2.5	Pass
			40	NV	-14.30	-0.0076	>=-2.5 & <=2.5	Pass
50	NV	-12.50	-0.0066	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1880	Outer_Full	20	LV	-13.20	-0.0070	>=-2.5 & <=2.5	Pass
				HV	-13.70	-0.0073	>=-2.5 & <=2.5	Pass
			-30	NV	-11.30	-0.0060	>=-2.5 & <=2.5	Pass
			-20	NV	-11.30	-0.0060	>=-2.5 & <=2.5	Pass
			-10	NV	-15.70	-0.0084	>=-2.5 & <=2.5	Pass
			0	NV	-10.80	-0.0057	>=-2.5 & <=2.5	Pass
			10	NV	-14.60	-0.0078	>=-2.5 & <=2.5	Pass
			20	NV	-15.00	-0.0080	>=-2.5 & <=2.5	Pass
			30	NV	-11.50	-0.0061	>=-2.5 & <=2.5	Pass
			40	NV	-8.10	-0.0043	>=-2.5 & <=2.5	Pass
50	NV	-10.00	-0.0053	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1880	Outer_Full	20	LV	-14.90	-0.0079	>=-2.5 & <=2.5	Pass
				HV	-12.10	-0.0064	>=-2.5 & <=2.5	Pass
			-30	NV	-13.70	-0.0073	>=-2.5 & <=2.5	Pass
			-20	NV	-16.20	-0.0086	>=-2.5 & <=2.5	Pass
			-10	NV	-13.80	-0.0073	>=-2.5 & <=2.5	Pass
			0	NV	-10.20	-0.0054	>=-2.5 & <=2.5	Pass
			10	NV	-14.70	-0.0078	>=-2.5 & <=2.5	Pass
			20	NV	-12.90	-0.0069	>=-2.5 & <=2.5	Pass
			30	NV	-15.70	-0.0084	>=-2.5 & <=2.5	Pass
			40	NV	-13.70	-0.0073	>=-2.5 & <=2.5	Pass
50	NV	-13.60	-0.0072	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1880	Outer_Full	20	LV	-11.50	-0.0061	>=-2.5 & <=2.5	Pass
				HV	-8.70	-0.0046	>=-2.5 & <=2.5	Pass
			-30	NV	-12.30	-0.0065	>=-2.5 & <=2.5	Pass
			-20	NV	-13.50	-0.0072	>=-2.5 & <=2.5	Pass



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 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

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			-10	NV	-16.70	-0.0089	$\geq -2.5$ & $\leq 2.5$	Pass			
			0	NV	-16.10	-0.0086	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	-14.70	-0.0078	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-13.80	-0.0073	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-13.20	-0.0070	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-14.30	-0.0076	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-12.20	-0.0065	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	1880	Outer_Full	20	LV	-11.80	-0.0063	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-10.90	-0.0058	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-10.90	-0.0058	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-12.20	-0.0065	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-9.90	-0.0053	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-13.00	-0.0069	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-13.30	-0.0071	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-10.40	-0.0055	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-10.40	-0.0055	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-11.10	-0.0059	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-13.50	-0.0072	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM QPSK	1880	Outer_Full	20	LV	-4.60	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
									-30	NV	-1.80
						-20	NV	-5.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-5.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-2.00	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	1.40	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-2.70	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	1880	Outer_Full				20	LV	-6.20	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
									-30	NV	-5.00
						-20	NV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-5.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-6.90	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-5.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-2.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM 64 QAM	1880	Outer_Full	20	LV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-2.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
									-30	NV	-3.20
						-20	NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-2.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-1.00	-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-4.00	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-1.70	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-7.40	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-6.60	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	1880	Outer_Full				20	LV	-4.30	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-3.70	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
									-30	NV	-6.00



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 中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

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			-20	NV	-4.80	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-6.90	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-6.70	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			50	NV	-7.20	-0.0038	>=-2.5 & <=2.5	Pass

## 1.6 30k\_SISO\_15MHz

### 1.6.1 Test Result

5G NR n2 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	1880	Outer_Full	20	LV	-20.80	-0.0111	>=-2.5 & <=2.5	Pass
				HV	-15.90	-0.0085	>=-2.5 & <=2.5	Pass
			-30	NV	-12.00	-0.0064	>=-2.5 & <=2.5	Pass
			-20	NV	-14.60	-0.0078	>=-2.5 & <=2.5	Pass
			-10	NV	-13.50	-0.0072	>=-2.5 & <=2.5	Pass
			0	NV	-15.40	-0.0082	>=-2.5 & <=2.5	Pass
			10	NV	-17.00	-0.0090	>=-2.5 & <=2.5	Pass
			20	NV	-14.30	-0.0076	>=-2.5 & <=2.5	Pass
			30	NV	-17.90	-0.0095	>=-2.5 & <=2.5	Pass
			40	NV	-19.30	-0.0103	>=-2.5 & <=2.5	Pass
50	NV	-9.50	-0.0051	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1880	Outer_Full	20	LV	-18.20	-0.0097	>=-2.5 & <=2.5	Pass
				HV	-17.70	-0.0094	>=-2.5 & <=2.5	Pass
			-30	NV	-12.90	-0.0069	>=-2.5 & <=2.5	Pass
			-20	NV	-9.60	-0.0051	>=-2.5 & <=2.5	Pass
			-10	NV	-14.50	-0.0077	>=-2.5 & <=2.5	Pass
			0	NV	-13.60	-0.0072	>=-2.5 & <=2.5	Pass
			10	NV	-16.00	-0.0085	>=-2.5 & <=2.5	Pass
			20	NV	-10.00	-0.0053	>=-2.5 & <=2.5	Pass
			30	NV	-15.60	-0.0083	>=-2.5 & <=2.5	Pass
			40	NV	-9.00	-0.0048	>=-2.5 & <=2.5	Pass
50	NV	-13.60	-0.0072	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1880	Outer_Full	20	LV	-13.50	-0.0072	>=-2.5 & <=2.5	Pass
				HV	-15.90	-0.0085	>=-2.5 & <=2.5	Pass
			-30	NV	-13.00	-0.0069	>=-2.5 & <=2.5	Pass
			-20	NV	-15.80	-0.0084	>=-2.5 & <=2.5	Pass
			-10	NV	-13.90	-0.0074	>=-2.5 & <=2.5	Pass
			0	NV	-15.50	-0.0082	>=-2.5 & <=2.5	Pass
			10	NV	-13.00	-0.0069	>=-2.5 & <=2.5	Pass
			20	NV	-15.20	-0.0081	>=-2.5 & <=2.5	Pass
			30	NV	-13.00	-0.0069	>=-2.5 & <=2.5	Pass
			40	NV	-15.50	-0.0082	>=-2.5 & <=2.5	Pass
50	NV	-15.30	-0.0081	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1880	Outer_Full	20	LV	-18.90	-0.0101	>=-2.5 & <=2.5	Pass
				HV	-14.80	-0.0079	>=-2.5 & <=2.5	Pass
			-30	NV	-14.80	-0.0079	>=-2.5 & <=2.5	Pass



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			-20	NV	-12.80	-0.0068	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-12.40	-0.0066	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-13.60	-0.0072	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-16.90	-0.0090	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-13.10	-0.0070	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-12.30	-0.0065	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-17.00	-0.0090	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-14.30	-0.0076	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	1880	Outer_Full	20	LV	-14.60	-0.0078	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-13.50	-0.0072	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-13.40	-0.0071	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-14.40	-0.0077	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-13.70	-0.0073	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-10.40	-0.0055	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-11.90	-0.0063	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-13.80	-0.0073	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-12.50	-0.0066	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-14.60	-0.0078	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-11.90	-0.0063	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM QPSK	1880	Outer_Full	20	LV	-9.30
	HV	-5.80				-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
-30	NV	-6.90				-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-8.30				-0.0044	$\geq -2.5$ & $\leq 2.5$	Pass
-10	NV	-8.30				-0.0044	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-8.90				-0.0047	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-6.10				-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
20	NV	-7.10				-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-7.80				-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-6.80				-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-6.20				-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	1880	Outer_Full				20	LV	-7.10
				HV	-5.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-9.90	-0.0053	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-7.50	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.10	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-8.10	-0.0043	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-9.70	-0.0052	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.20	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-6.90	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM 64 QAM	1880	Outer_Full	20	LV	-7.90
	HV	-6.80				-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
-30	NV	-9.90				-0.0053	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-6.80				-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
-10	NV	-3.60				-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-9.50				-0.0051	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-8.30				-0.0044	$\geq -2.5$ & $\leq 2.5$	Pass
20	NV	-10.40				-0.0055	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-9.00				-0.0048	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-6.50				-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-8.80				-0.0047	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	1880	Outer_Full				20	LV	-7.60
				HV	-7.10	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass



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			-30	NV	-8.40	-0.0045	>=-2.5 & <=2.5	Pass
			-20	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-7.30	-0.0039	>=-2.5 & <=2.5	Pass
			10	NV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-7.60	-0.0040	>=-2.5 & <=2.5	Pass

## 1.7 30k\_SISO\_20MHz

### 1.7.1 Test Result

5G NR n2 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	1880	Outer_Full	20	LV	-14.00	-0.0074	>=-2.5 & <=2.5	Pass
				HV	-15.70	-0.0084	>=-2.5 & <=2.5	Pass
			-30	NV	-15.30	-0.0081	>=-2.5 & <=2.5	Pass
			-20	NV	-14.90	-0.0079	>=-2.5 & <=2.5	Pass
			-10	NV	-16.20	-0.0086	>=-2.5 & <=2.5	Pass
			0	NV	-10.80	-0.0057	>=-2.5 & <=2.5	Pass
			10	NV	-10.90	-0.0058	>=-2.5 & <=2.5	Pass
			20	NV	-11.80	-0.0063	>=-2.5 & <=2.5	Pass
			30	NV	-16.10	-0.0086	>=-2.5 & <=2.5	Pass
			40	NV	-18.60	-0.0099	>=-2.5 & <=2.5	Pass
50	NV	-19.30	-0.0103	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1880	Outer_Full	20	LV	-14.00	-0.0074	>=-2.5 & <=2.5	Pass
				HV	-15.50	-0.0082	>=-2.5 & <=2.5	Pass
			-30	NV	-16.40	-0.0087	>=-2.5 & <=2.5	Pass
			-20	NV	-14.90	-0.0079	>=-2.5 & <=2.5	Pass
			-10	NV	-15.10	-0.0080	>=-2.5 & <=2.5	Pass
			0	NV	-17.40	-0.0093	>=-2.5 & <=2.5	Pass
			10	NV	-16.00	-0.0085	>=-2.5 & <=2.5	Pass
			20	NV	-14.80	-0.0079	>=-2.5 & <=2.5	Pass
			30	NV	-13.90	-0.0074	>=-2.5 & <=2.5	Pass
			40	NV	-13.20	-0.0070	>=-2.5 & <=2.5	Pass
50	NV	-18.70	-0.0099	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1880	Outer_Full	20	LV	-9.20	-0.0049	>=-2.5 & <=2.5	Pass
				HV	-10.60	-0.0056	>=-2.5 & <=2.5	Pass
			-30	NV	-10.80	-0.0057	>=-2.5 & <=2.5	Pass
			-20	NV	-12.60	-0.0067	>=-2.5 & <=2.5	Pass
			-10	NV	-16.40	-0.0087	>=-2.5 & <=2.5	Pass
			0	NV	-11.70	-0.0062	>=-2.5 & <=2.5	Pass
			10	NV	-10.00	-0.0053	>=-2.5 & <=2.5	Pass
			20	NV	-11.60	-0.0062	>=-2.5 & <=2.5	Pass
			30	NV	-12.20	-0.0065	>=-2.5 & <=2.5	Pass
			40	NV	-12.90	-0.0069	>=-2.5 & <=2.5	Pass
50	NV	-10.40	-0.0055	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1880	Outer_Full	20	LV	-11.10	-0.0059	>=-2.5 & <=2.5	Pass
				HV	-16.60	-0.0088	>=-2.5 & <=2.5	Pass



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			-30	NV	-16.40	-0.0087	>=-2.5 & <=2.5	Pass
			-20	NV	-16.70	-0.0089	>=-2.5 & <=2.5	Pass
			-10	NV	-14.40	-0.0077	>=-2.5 & <=2.5	Pass
			0	NV	-13.30	-0.0071	>=-2.5 & <=2.5	Pass
			10	NV	-14.80	-0.0079	>=-2.5 & <=2.5	Pass
			20	NV	-14.00	-0.0074	>=-2.5 & <=2.5	Pass
			30	NV	-14.20	-0.0076	>=-2.5 & <=2.5	Pass
			40	NV	-13.90	-0.0074	>=-2.5 & <=2.5	Pass
			50	NV	-14.70	-0.0078	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	1880	Outer_Full	20	LV	-11.10	-0.0059	>=-2.5 & <=2.5	Pass
				HV	-10.20	-0.0054	>=-2.5 & <=2.5	Pass
			-30	NV	-8.50	-0.0045	>=-2.5 & <=2.5	Pass
			-20	NV	-9.30	-0.0049	>=-2.5 & <=2.5	Pass
			-10	NV	-9.60	-0.0051	>=-2.5 & <=2.5	Pass
			0	NV	-12.60	-0.0067	>=-2.5 & <=2.5	Pass
			10	NV	-11.30	-0.0060	>=-2.5 & <=2.5	Pass
			20	NV	-10.10	-0.0054	>=-2.5 & <=2.5	Pass
			30	NV	-7.70	-0.0041	>=-2.5 & <=2.5	Pass
			40	NV	-12.00	-0.0064	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	1880	Outer_Full	20	LV	-7.70	-0.0041	>=-2.5 & <=2.5	Pass
				HV	-10.20	-0.0054	>=-2.5 & <=2.5	Pass
			-30	NV	-6.20	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-8.00	-0.0043	>=-2.5 & <=2.5	Pass
			-10	NV	-8.40	-0.0045	>=-2.5 & <=2.5	Pass
			0	NV	-9.70	-0.0052	>=-2.5 & <=2.5	Pass
			10	NV	-10.90	-0.0058	>=-2.5 & <=2.5	Pass
			20	NV	-10.10	-0.0054	>=-2.5 & <=2.5	Pass
			30	NV	-8.20	-0.0044	>=-2.5 & <=2.5	Pass
			40	NV	-9.80	-0.0052	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	1880	Outer_Full	20	LV	-10.30	-0.0055	>=-2.5 & <=2.5	Pass
				HV	-7.20	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-8.80	-0.0047	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0041	>=-2.5 & <=2.5	Pass
			-10	NV	-8.80	-0.0047	>=-2.5 & <=2.5	Pass
			0	NV	-10.00	-0.0053	>=-2.5 & <=2.5	Pass
			10	NV	-10.20	-0.0054	>=-2.5 & <=2.5	Pass
			20	NV	-11.00	-0.0059	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0046	>=-2.5 & <=2.5	Pass
			40	NV	-7.80	-0.0041	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	1880	Outer_Full	20	LV	-10.20	-0.0054	>=-2.5 & <=2.5	Pass
				HV	-10.50	-0.0056	>=-2.5 & <=2.5	Pass
			-30	NV	-12.00	-0.0064	>=-2.5 & <=2.5	Pass
			-20	NV	-7.80	-0.0041	>=-2.5 & <=2.5	Pass
			-10	NV	-5.90	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-7.00	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0045	>=-2.5 & <=2.5	Pass
			20	NV	-10.10	-0.0054	>=-2.5 & <=2.5	Pass
			30	NV	-9.30	-0.0049	>=-2.5 & <=2.5	Pass
			40	NV	-10.90	-0.0058	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	1880	Outer_Full	20	LV	2.20	0.0012	>=-2.5 & <=2.5	Pass



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			HV	-5.00	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			-30 NV	-2.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			-20 NV	-6.90	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			-10 NV	-5.90	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			0 NV	-5.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			10 NV	-7.50	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			20 NV	-5.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			30 NV	-5.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			40 NV	-9.30	-0.0049	$\geq -2.5$ & $\leq 2.5$	Pass
			50 NV	-8.50	-0.0045	$\geq -2.5$ & $\leq 2.5$	Pass



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## 2. n5 Frequency Stability

### 2.1 15k\_SISO\_5MHz

#### 2.1.1 Test Result

5G NR n5 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	836.5	Outer_Full	20	LV	-10.10	-0.0121	>=-2.5 & <=2.5	Pass
				HV	-9.70	-0.0116	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0088	>=-2.5 & <=2.5	Pass
				NV	-6.30	-0.0075	>=-2.5 & <=2.5	Pass
			-10	NV	-8.80	-0.0105	>=-2.5 & <=2.5	Pass
				NV	-7.60	-0.0091	>=-2.5 & <=2.5	Pass
			0	NV	-9.00	-0.0108	>=-2.5 & <=2.5	Pass
				NV	-8.30	-0.0099	>=-2.5 & <=2.5	Pass
			20	NV	-7.20	-0.0086	>=-2.5 & <=2.5	Pass
				NV	-8.30	-0.0099	>=-2.5 & <=2.5	Pass
30	NV	-10.90	-0.0130	>=-2.5 & <=2.5	Pass			
	NV	-9.70	-0.0116	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	836.5	Outer_Full	20	LV	-9.70	-0.0116	>=-2.5 & <=2.5	Pass
				HV	-9.70	-0.0116	>=-2.5 & <=2.5	Pass
			-30	NV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass
				NV	-9.00	-0.0108	>=-2.5 & <=2.5	Pass
			-20	NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
				NV	-10.20	-0.0122	>=-2.5 & <=2.5	Pass
			0	NV	-10.00	-0.0120	>=-2.5 & <=2.5	Pass
				NV	-9.00	-0.0108	>=-2.5 & <=2.5	Pass
			10	NV	-9.80	-0.0117	>=-2.5 & <=2.5	Pass
				NV	-10.50	-0.0126	>=-2.5 & <=2.5	Pass
20	NV	-6.60	-0.0079	>=-2.5 & <=2.5	Pass			
	NV	-8.90	-0.0106	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	836.5	Outer_Full	20	LV	-8.90	-0.0106	>=-2.5 & <=2.5	Pass
				HV	-8.10	-0.0097	>=-2.5 & <=2.5	Pass
			-30	NV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass
				NV	-8.50	-0.0102	>=-2.5 & <=2.5	Pass
			-20	NV	-8.90	-0.0106	>=-2.5 & <=2.5	Pass
				NV	-7.80	-0.0093	>=-2.5 & <=2.5	Pass
			0	NV	-6.90	-0.0082	>=-2.5 & <=2.5	Pass
				NV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0102	>=-2.5 & <=2.5	Pass
				NV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass
20	NV	-7.80	-0.0093	>=-2.5 & <=2.5	Pass			
	NV	-9.10	-0.0109	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	836.5	Outer_Full	20	LV	-9.10	-0.0109	>=-2.5 & <=2.5	Pass
				HV	-8.90	-0.0106	>=-2.5 & <=2.5	Pass
			-30	NV	-9.80	-0.0117	>=-2.5 & <=2.5	Pass
				NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
			-20	NV	-9.70	-0.0116	>=-2.5 & <=2.5	Pass
				NV	-8.70	-0.0104	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
				NV	-8.00	-0.0096	>=-2.5 & <=2.5	Pass
			10	NV	-9.50	-0.0114	>=-2.5 & <=2.5	Pass
				NV	-9.00	-0.0108	>=-2.5 & <=2.5	Pass
20	NV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 256 QAM	836.5	Outer_Full	20	LV	-7.40	-0.0088	>=-2.5 & <=2.5	Pass
				HV	-6.80	-0.0081	>=-2.5 & <=2.5	Pass
			-30	NV	-8.50	-0.0102	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass
			-10	NV	-6.70	-0.0080	>=-2.5 & <=2.5	Pass
			0	NV	-8.70	-0.0104	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0100	>=-2.5 & <=2.5	Pass
			20	NV	-6.70	-0.0080	>=-2.5 & <=2.5	Pass
			30	NV	-8.40	-0.0100	>=-2.5 & <=2.5	Pass
40	NV	-5.20	-0.0062	>=-2.5 & <=2.5	Pass			
50	NV	-8.40	-0.0100	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	836.5	Outer_Full	20	LV	-7.30	-0.0087	>=-2.5 & <=2.5	Pass
				HV	-6.00	-0.0072	>=-2.5 & <=2.5	Pass
			-30	NV	-9.10	-0.0109	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0077	>=-2.5 & <=2.5	Pass
			-10	NV	-7.40	-0.0088	>=-2.5 & <=2.5	Pass
			0	NV	-8.00	-0.0096	>=-2.5 & <=2.5	Pass
			10	NV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
			20	NV	-8.90	-0.0106	>=-2.5 & <=2.5	Pass
			30	NV	-5.90	-0.0071	>=-2.5 & <=2.5	Pass
40	NV	-9.50	-0.0114	>=-2.5 & <=2.5	Pass			
50	NV	-9.40	-0.0112	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	836.5	Outer_Full	20	LV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
				HV	-8.90	-0.0106	>=-2.5 & <=2.5	Pass
			-30	NV	-9.10	-0.0109	>=-2.5 & <=2.5	Pass
			-20	NV	-10.10	-0.0121	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0093	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
			10	NV	-8.20	-0.0098	>=-2.5 & <=2.5	Pass
			20	NV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass
			30	NV	-10.00	-0.0120	>=-2.5 & <=2.5	Pass
40	NV	-8.70	-0.0104	>=-2.5 & <=2.5	Pass			
50	NV	-9.10	-0.0109	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	836.5	Outer_Full	20	LV	-6.40	-0.0077	>=-2.5 & <=2.5	Pass
				HV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
			-30	NV	-9.30	-0.0111	>=-2.5 & <=2.5	Pass
			-20	NV	-9.20	-0.0110	>=-2.5 & <=2.5	Pass
			-10	NV	-9.10	-0.0109	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
			10	NV	-10.40	-0.0124	>=-2.5 & <=2.5	Pass
			20	NV	-7.30	-0.0087	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0104	>=-2.5 & <=2.5	Pass
40	NV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass			
50	NV	-8.10	-0.0097	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	836.5	Outer_Full	20	LV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
				HV	-8.10	-0.0097	>=-2.5 & <=2.5	Pass
			-30	NV	-8.10	-0.0097	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass
			-10	NV	-8.30	-0.0099	>=-2.5 & <=2.5	Pass
			0	NV	-8.10	-0.0097	>=-2.5 & <=2.5	Pass
			10	NV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
			20	NV	-11.00	-0.0132	>=-2.5 & <=2.5	Pass
			30	NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
40	NV	-7.00	-0.0084	>=-2.5 & <=2.5	Pass			



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 No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

886-512157350888 886-512157370911 www.sgs.com.cn  
 886-512157350888 886-512157370911 sgs.china@sgs.com

			50	NV	-10.00	-0.0120	>=-2.5 & <=2.5	Pass
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2.2 15k\_SISO\_10MHz

2.2.1 Test Result

5G NR n5 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	836.5	Outer_Full	20	LV	-9.80	-0.0117	>=-2.5 & <=2.5	Pass
				HV	-9.90	-0.0118	>=-2.5 & <=2.5	Pass
			-30	NV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0118	>=-2.5 & <=2.5	Pass
			-10	NV	-9.20	-0.0110	>=-2.5 & <=2.5	Pass
			0	NV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
			10	NV	-8.20	-0.0098	>=-2.5 & <=2.5	Pass
			20	NV	-8.50	-0.0102	>=-2.5 & <=2.5	Pass
			30	NV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
			40	NV	-6.30	-0.0075	>=-2.5 & <=2.5	Pass
50	NV	-7.60	-0.0091	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	836.5	Outer_Full	20	LV	-5.40	-0.0065	>=-2.5 & <=2.5	Pass
				HV	-8.00	-0.0096	>=-2.5 & <=2.5	Pass
			-30	NV	-6.90	-0.0082	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0062	>=-2.5 & <=2.5	Pass
			-10	NV	-5.70	-0.0068	>=-2.5 & <=2.5	Pass
			0	NV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0079	>=-2.5 & <=2.5	Pass
			20	NV	-9.90	-0.0118	>=-2.5 & <=2.5	Pass
			30	NV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass
			40	NV	-9.90	-0.0118	>=-2.5 & <=2.5	Pass
50	NV	-7.20	-0.0086	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	836.5	Outer_Full	20	LV	-8.30	-0.0099	>=-2.5 & <=2.5	Pass
				HV	-8.80	-0.0105	>=-2.5 & <=2.5	Pass
			-30	NV	-7.10	-0.0085	>=-2.5 & <=2.5	Pass
			-20	NV	-6.90	-0.0082	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0096	>=-2.5 & <=2.5	Pass
			0	NV	-6.70	-0.0080	>=-2.5 & <=2.5	Pass
			10	NV	-10.50	-0.0126	>=-2.5 & <=2.5	Pass
			20	NV	-7.30	-0.0087	>=-2.5 & <=2.5	Pass
			30	NV	-10.50	-0.0126	>=-2.5 & <=2.5	Pass
			40	NV	-6.70	-0.0080	>=-2.5 & <=2.5	Pass
50	NV	-8.80	-0.0105	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	836.5	Outer_Full	20	LV	-8.00	-0.0096	>=-2.5 & <=2.5	Pass
				HV	-7.00	-0.0084	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0112	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass
			-10	NV	-7.30	-0.0087	>=-2.5 & <=2.5	Pass
			0	NV	-6.80	-0.0081	>=-2.5 & <=2.5	Pass
			10	NV	-7.30	-0.0087	>=-2.5 & <=2.5	Pass
			20	NV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass
			30	NV	-9.90	-0.0118	>=-2.5 & <=2.5	Pass
40	NV	-10.20	-0.0122	>=-2.5 & <=2.5	Pass			



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 中国·江苏·昆山市留學生创业园伟业路18号 邮编 215300      (86-512)5735088      (86-512)5737000      sgs.china@sgs.com

DFT-s-OFDM 256 QAM	836.5	Outer_Full	50	NV	-11.10	-0.0133	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-9.40	-0.0112	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-8.00	-0.0096	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-8.00	-0.0096	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-9.50	-0.0114	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-9.80	-0.0117	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.30	-0.0075	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-8.20	-0.0098	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.60	-0.0103	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-7.50	-0.0090	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-7.30	-0.0087	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-6.90	-0.0082	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	836.5	Outer_Full	20	LV	-7.20	-0.0086	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-10.40	-0.0124	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.70	-0.0092	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-8.10	-0.0097	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-9.30	-0.0111	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-10.40	-0.0124	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-7.60	-0.0091	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.40	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-7.60	-0.0091	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-11.40	-0.0136	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-10.70	-0.0128	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	836.5	Outer_Full	20	LV	-11.10	-0.0133	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-7.70	-0.0092	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-9.40	-0.0112	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-8.90	-0.0106	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-9.30	-0.0111	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-10.00	-0.0120	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.80	-0.0081	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.70	-0.0092	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-7.90	-0.0094	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-9.10	-0.0109	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-8.80	-0.0105	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	836.5	Outer_Full	20	LV	-7.90	-0.0094	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-7.20	-0.0086	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-8.10	-0.0097	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.70	-0.0080	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-9.70	-0.0116	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-8.30	-0.0099	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-9.40	-0.0112	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-9.80	-0.0117	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-9.30	-0.0111	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-10.40	-0.0124	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-10.70	-0.0128	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	836.5	Outer_Full	20	LV	-8.50	-0.0102	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-8.50	-0.0102	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-8.30	-0.0099	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-8.20	-0.0098	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-9.80	-0.0117	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.70	-0.0092	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-7.90	-0.0094	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.70	-0.0104	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-7.30	-0.0087	$\geq -2.5$ & $\leq 2.5$	Pass			



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 中国·江苏·昆山市留学院创业园伟业路18号 邮编 215300

086-51215735088 086-51215737011 www.sgs.com.cn  
 086-51215735088 086-51215737011 sgs.china@sgs.com

			40	NV	-9.30	-0.0111	>=-2.5 & <=2.5	Pass
			50	NV	-10.30	-0.0123	>=-2.5 & <=2.5	Pass

2.3 15k\_SISO\_15MHz

2.3.1 Test Result

5G NR n5 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	836.5	Outer_Full	20	LV	-11.90	-0.0142	>=-2.5 & <=2.5	Pass
				HV	-8.90	-0.0106	>=-2.5 & <=2.5	Pass
			-30	NV	-12.40	-0.0148	>=-2.5 & <=2.5	Pass
			-20	NV	-10.50	-0.0126	>=-2.5 & <=2.5	Pass
			-10	NV	-11.50	-0.0137	>=-2.5 & <=2.5	Pass
			0	NV	-10.90	-0.0130	>=-2.5 & <=2.5	Pass
			10	NV	-11.20	-0.0134	>=-2.5 & <=2.5	Pass
			20	NV	-11.80	-0.0141	>=-2.5 & <=2.5	Pass
			30	NV	-10.50	-0.0126	>=-2.5 & <=2.5	Pass
			40	NV	-9.70	-0.0116	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	836.5	Outer_Full	20	LV	-6.50	-0.0078	>=-2.5 & <=2.5	Pass
				HV	-5.30	-0.0063	>=-2.5 & <=2.5	Pass
			-30	NV	-6.60	-0.0079	>=-2.5 & <=2.5	Pass
			-20	NV	-8.00	-0.0096	>=-2.5 & <=2.5	Pass
			-10	NV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass
			0	NV	-7.10	-0.0085	>=-2.5 & <=2.5	Pass
			10	NV	-9.40	-0.0112	>=-2.5 & <=2.5	Pass
			20	NV	-5.90	-0.0071	>=-2.5 & <=2.5	Pass
			30	NV	-9.20	-0.0110	>=-2.5 & <=2.5	Pass
			40	NV	-9.50	-0.0114	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	836.5	Outer_Full	20	LV	-7.40	-0.0088	>=-2.5 & <=2.5	Pass
				HV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass
			-30	NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
			-20	NV	-8.50	-0.0102	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0096	>=-2.5 & <=2.5	Pass
			0	NV	-7.80	-0.0093	>=-2.5 & <=2.5	Pass
			10	NV	-7.20	-0.0086	>=-2.5 & <=2.5	Pass
			20	NV	-5.80	-0.0069	>=-2.5 & <=2.5	Pass
			30	NV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass
			40	NV	-6.20	-0.0074	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	836.5	Outer_Full	20	LV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
				HV	-9.30	-0.0111	>=-2.5 & <=2.5	Pass
			-30	NV	-8.90	-0.0106	>=-2.5 & <=2.5	Pass
			-20	NV	-7.40	-0.0088	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0093	>=-2.5 & <=2.5	Pass
			0	NV	-6.30	-0.0075	>=-2.5 & <=2.5	Pass
			10	NV	-5.60	-0.0067	>=-2.5 & <=2.5	Pass
			20	NV	-7.50	-0.0090	>=-2.5 & <=2.5	Pass
			30	NV	-7.40	-0.0088	>=-2.5 & <=2.5	Pass



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			40	NV	-8.70	-0.0104	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-8.40	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	836.5	Outer_Full	20	LV	-4.80	-0.0057	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-6.10	-0.0073	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-7.90	-0.0094	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-5.90	-0.0071	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.60	-0.0055	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-8.10	-0.0097	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-5.30	-0.0063	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-8.10	-0.0097	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-7.10	-0.0085	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-8.60	-0.0103	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.40	-0.0053	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	836.5	Outer_Full	20	LV	-7.70	-0.0092	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-7.00	-0.0084	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-8.10	-0.0097	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-8.70	-0.0104	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-8.40	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-7.00	-0.0084	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-8.20	-0.0098	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-7.90	-0.0094	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-8.00	-0.0096	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-9.00	-0.0108	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-8.70	-0.0104	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	836.5	Outer_Full	20	LV	-6.00	-0.0072	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-7.00	-0.0084	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-8.10	-0.0097	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-7.20	-0.0086	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-7.90	-0.0094	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-7.60	-0.0091	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-6.80	-0.0081	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-7.60	-0.0091	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-6.40	-0.0077	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-9.00	-0.0108	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-9.30	-0.0111	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	836.5	Outer_Full	20	LV	-7.90	-0.0094	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-8.30	-0.0099	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-7.40	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-10.20	-0.0122	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-9.30	-0.0111	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-8.40	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-8.60	-0.0103	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-10.40	-0.0124	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-7.10	-0.0085	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-7.40	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-8.40	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	836.5	Outer_Full	20	LV	-10.70	-0.0128	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-7.30	-0.0087	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-10.00	-0.0120	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-8.00	-0.0096	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-8.70	-0.0104	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-9.60	-0.0115	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-9.80	-0.0117	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.00	-0.0096	$\geq -2.5$ & $\leq 2.5$	Pass			



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0512-51257300 0512-51257301 www.sgs.com.cn  
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			30	NV	-7.10	-0.0085	>=-2.5 & <=2.5	Pass
			40	NV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass
			50	NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass

2.4 15k\_SISO\_20MHz

2.4.1 Test Result

5G NR n5 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	836.5	Outer_Full	20	LV	-13.60	-0.0163	>=-2.5 & <=2.5	Pass
				HV	-12.00	-0.0143	>=-2.5 & <=2.5	Pass
			-30	NV	-12.80	-0.0153	>=-2.5 & <=2.5	Pass
			-20	NV	-12.10	-0.0145	>=-2.5 & <=2.5	Pass
			-10	NV	-12.40	-0.0148	>=-2.5 & <=2.5	Pass
			0	NV	-9.70	-0.0116	>=-2.5 & <=2.5	Pass
			10	NV	-9.30	-0.0111	>=-2.5 & <=2.5	Pass
			20	NV	-12.60	-0.0151	>=-2.5 & <=2.5	Pass
			30	NV	-10.30	-0.0123	>=-2.5 & <=2.5	Pass
			40	NV	-9.80	-0.0117	>=-2.5 & <=2.5	Pass
50	NV	-10.10	-0.0121	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	836.5	Outer_Full	20	LV	-12.10	-0.0145	>=-2.5 & <=2.5	Pass
				HV	-9.10	-0.0109	>=-2.5 & <=2.5	Pass
			-30	NV	-12.00	-0.0143	>=-2.5 & <=2.5	Pass
			-20	NV	-9.00	-0.0108	>=-2.5 & <=2.5	Pass
			-10	NV	-9.90	-0.0118	>=-2.5 & <=2.5	Pass
			0	NV	-10.60	-0.0127	>=-2.5 & <=2.5	Pass
			10	NV	-8.80	-0.0105	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
			30	NV	-8.20	-0.0098	>=-2.5 & <=2.5	Pass
			40	NV	-6.50	-0.0078	>=-2.5 & <=2.5	Pass
50	NV	-6.50	-0.0078	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	836.5	Outer_Full	20	LV	-8.30	-0.0099	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0074	>=-2.5 & <=2.5	Pass
			-30	NV	-6.70	-0.0080	>=-2.5 & <=2.5	Pass
			-20	NV	-5.30	-0.0063	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0093	>=-2.5 & <=2.5	Pass
			0	NV	-7.20	-0.0086	>=-2.5 & <=2.5	Pass
			10	NV	-7.10	-0.0085	>=-2.5 & <=2.5	Pass
			20	NV	-8.40	-0.0100	>=-2.5 & <=2.5	Pass
			30	NV	-9.60	-0.0115	>=-2.5 & <=2.5	Pass
			40	NV	-9.40	-0.0112	>=-2.5 & <=2.5	Pass
50	NV	-10.20	-0.0122	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	836.5	Outer_Full	20	LV	-8.80	-0.0105	>=-2.5 & <=2.5	Pass
				HV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
			-30	NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
			-20	NV	-6.50	-0.0078	>=-2.5 & <=2.5	Pass
			-10	NV	-6.50	-0.0078	>=-2.5 & <=2.5	Pass
			0	NV	-6.20	-0.0074	>=-2.5 & <=2.5	Pass
			10	NV	-6.30	-0.0075	>=-2.5 & <=2.5	Pass
			20	NV	-9.10	-0.0109	>=-2.5 & <=2.5	Pass



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			30	NV	-8.20	-0.0098	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-7.40	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-7.40	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	836.5	Outer_Full	20	LV	-7.50	-0.0090	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-7.40	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-8.20	-0.0098	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-8.00	-0.0096	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-9.50	-0.0114	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-9.20	-0.0110	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-7.40	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-6.90	-0.0082	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-9.90	-0.0118	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-8.40	-0.0100	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-9.40	-0.0112	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM QPSK	836.5	Outer_Full	20	LV	-5.30	-0.0063	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-6.40	-0.0077	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-6.50	-0.0078	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.00	-0.0072	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-7.10	-0.0085	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.00	-0.0084	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-7.30	-0.0087	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.70	-0.0092	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-6.00	-0.0072	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-7.60	-0.0091	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-7.40	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	836.5	Outer_Full	20	LV	-7.40	-0.0088	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.70	-0.0068	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.60	-0.0055	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.60	-0.0055	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.10	-0.0073	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-5.10	-0.0061	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.70	-0.0080	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-6.90	-0.0082	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-7.70	-0.0092	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.00	-0.0072	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-6.20	-0.0074	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 64 QAM	836.5	Outer_Full	20	LV	-7.00	-0.0084	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-7.80	-0.0093	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-8.70	-0.0104	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.40	-0.0077	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.20	-0.0074	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-5.10	-0.0061	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.70	-0.0068	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-3.40	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.00	-0.0060	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.90	-0.0047	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-5.30	-0.0063	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	836.5	Outer_Full	20	LV	-11.10	-0.0133	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-10.30	-0.0123	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-10.90	-0.0130	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-10.20	-0.0122	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-9.60	-0.0115	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-9.30	-0.0111	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-12.00	-0.0143	$\geq -2.5$ & $\leq 2.5$	Pass			



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 No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

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			20	NV	-12.10	-0.0145	>=-2.5 & <=2.5	Pass
			30	NV	-11.20	-0.0134	>=-2.5 & <=2.5	Pass
			40	NV	-8.70	-0.0104	>=-2.5 & <=2.5	Pass
			50	NV	-7.10	-0.0085	>=-2.5 & <=2.5	Pass

## 2.5 30k\_SISO\_10MHz

### 2.5.1 Test Result

5G NR n5 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	836.5	Outer_Full	20	LV	3.60	0.0043	>=-2.5 & <=2.5	Pass
				HV	-1.20	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	6.00	0.0072	>=-2.5 & <=2.5	Pass
			-20	NV	3.40	0.0041	>=-2.5 & <=2.5	Pass
			-10	NV	5.90	0.0071	>=-2.5 & <=2.5	Pass
			0	NV	7.70	0.0092	>=-2.5 & <=2.5	Pass
			10	NV	6.80	0.0081	>=-2.5 & <=2.5	Pass
			20	NV	6.90	0.0082	>=-2.5 & <=2.5	Pass
			30	NV	7.50	0.0090	>=-2.5 & <=2.5	Pass
			40	NV	5.80	0.0069	>=-2.5 & <=2.5	Pass
50	NV	8.30	0.0099	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	836.5	Outer_Full	20	LV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass
				HV	-8.40	-0.0100	>=-2.5 & <=2.5	Pass
			-30	NV	-9.40	-0.0112	>=-2.5 & <=2.5	Pass
			-20	NV	-12.10	-0.0145	>=-2.5 & <=2.5	Pass
			-10	NV	7.70	0.0092	>=-2.5 & <=2.5	Pass
			0	NV	-10.50	-0.0126	>=-2.5 & <=2.5	Pass
			10	NV	-11.60	-0.0139	>=-2.5 & <=2.5	Pass
			20	NV	-6.70	-0.0080	>=-2.5 & <=2.5	Pass
			30	NV	-7.70	-0.0092	>=-2.5 & <=2.5	Pass
			40	NV	-11.30	-0.0135	>=-2.5 & <=2.5	Pass
50	NV	-11.20	-0.0134	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	836.5	Outer_Full	20	LV	-8.70	-0.0104	>=-2.5 & <=2.5	Pass
				HV	7.50	0.0090	>=-2.5 & <=2.5	Pass
			-30	NV	6.50	0.0078	>=-2.5 & <=2.5	Pass
			-20	NV	-8.30	-0.0099	>=-2.5 & <=2.5	Pass
			-10	NV	-8.10	-0.0097	>=-2.5 & <=2.5	Pass
			0	NV	-12.60	-0.0151	>=-2.5 & <=2.5	Pass
			10	NV	-11.70	-0.0140	>=-2.5 & <=2.5	Pass
			20	NV	-12.30	-0.0147	>=-2.5 & <=2.5	Pass
			30	NV	-9.90	-0.0118	>=-2.5 & <=2.5	Pass
			40	NV	-10.00	-0.0120	>=-2.5 & <=2.5	Pass
50	NV	-9.50	-0.0114	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	836.5	Outer_Full	20	LV	-12.50	-0.0149	>=-2.5 & <=2.5	Pass
				HV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass
			-30	NV	-5.90	-0.0071	>=-2.5 & <=2.5	Pass
			-20	NV	-8.50	-0.0102	>=-2.5 & <=2.5	Pass
			-10	NV	-9.20	-0.0110	>=-2.5 & <=2.5	Pass
			0	NV	6.50	0.0078	>=-2.5 & <=2.5	Pass
10	NV	-9.40	-0.0112	>=-2.5 & <=2.5	Pass			



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			20	NV	-11.00	-0.0132	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-11.20	-0.0134	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-11.40	-0.0136	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-12.10	-0.0145	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	836.5	Outer_Full	20	LV	-11.80	-0.0141	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-9.50	-0.0114	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-11.60	-0.0139	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-10.00	-0.0120	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-11.50	-0.0137	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-8.30	-0.0099	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-11.90	-0.0142	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-10.50	-0.0126	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-10.70	-0.0128	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-8.10	-0.0097	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-10.00	-0.0120	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	836.5	Outer_Full	20	LV	-12.30	-0.0147	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-8.90	-0.0106	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-10.80	-0.0129	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-10.80	-0.0129	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-13.10	-0.0157	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-11.60	-0.0139	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-11.40	-0.0136	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-10.50	-0.0126	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-12.80	-0.0153	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-11.60	-0.0139	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-13.10	-0.0157	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	836.5	Outer_Full	20	LV	-11.00	-0.0132	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-10.80	-0.0129	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-12.70	-0.0152	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-13.20	-0.0158	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-12.80	-0.0153	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-9.00	-0.0108	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-12.40	-0.0148	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-14.20	-0.0170	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-14.10	-0.0169	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-13.10	-0.0157	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-12.40	-0.0148	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	836.5	Outer_Full	20	LV	-9.00	-0.0108	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-12.90	-0.0154	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-11.50	-0.0137	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-11.10	-0.0133	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-10.70	-0.0128	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-11.60	-0.0139	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-9.20	-0.0110	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-12.30	-0.0147	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-11.50	-0.0137	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-13.10	-0.0157	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-11.10	-0.0133	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	836.5	Outer_Full	20	LV	-9.20	-0.0110	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-13.10	-0.0157	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-13.50	-0.0161	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-11.90	-0.0142	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-13.90	-0.0166	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-11.40	-0.0136	$\geq -2.5$ & $\leq 2.5$	Pass			



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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

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			10	NV	-9.60	-0.0115	>=-2.5 & <=2.5	Pass
			20	NV	-15.50	-0.0185	>=-2.5 & <=2.5	Pass
			30	NV	-10.30	-0.0123	>=-2.5 & <=2.5	Pass
			40	NV	-9.90	-0.0118	>=-2.5 & <=2.5	Pass
			50	NV	-14.30	-0.0171	>=-2.5 & <=2.5	Pass

## 2.6 30k\_SISO\_15MHz

### 2.6.1 Test Result

5G NR n5 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	836.5	Outer_Full	20	LV	4.70	0.0056	>=-2.5 & <=2.5	Pass
				HV	7.60	0.0091	>=-2.5 & <=2.5	Pass
			-30	NV	6.10	0.0073	>=-2.5 & <=2.5	Pass
			-20	NV	6.50	0.0078	>=-2.5 & <=2.5	Pass
			-10	NV	6.80	0.0081	>=-2.5 & <=2.5	Pass
			0	NV	6.00	0.0072	>=-2.5 & <=2.5	Pass
			10	NV	6.80	0.0081	>=-2.5 & <=2.5	Pass
			20	NV	4.90	0.0059	>=-2.5 & <=2.5	Pass
			30	NV	3.70	0.0044	>=-2.5 & <=2.5	Pass
			40	NV	8.20	0.0098	>=-2.5 & <=2.5	Pass
50	NV	4.30	0.0051	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	836.5	Outer_Full	20	LV	-11.30	-0.0135	>=-2.5 & <=2.5	Pass
				HV	-12.50	-0.0149	>=-2.5 & <=2.5	Pass
			-30	NV	-10.40	-0.0124	>=-2.5 & <=2.5	Pass
			-20	NV	-11.10	-0.0133	>=-2.5 & <=2.5	Pass
			-10	NV	-9.60	-0.0115	>=-2.5 & <=2.5	Pass
			0	NV	-9.90	-0.0118	>=-2.5 & <=2.5	Pass
			10	NV	-11.60	-0.0139	>=-2.5 & <=2.5	Pass
			20	NV	-10.30	-0.0123	>=-2.5 & <=2.5	Pass
			30	NV	-12.50	-0.0149	>=-2.5 & <=2.5	Pass
			40	NV	-13.60	-0.0163	>=-2.5 & <=2.5	Pass
50	NV	-12.90	-0.0154	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	836.5	Outer_Full	20	LV	-6.40	-0.0077	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0085	>=-2.5 & <=2.5	Pass
			-30	NV	-7.30	-0.0087	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0097	>=-2.5 & <=2.5	Pass
			-10	NV	-6.00	-0.0072	>=-2.5 & <=2.5	Pass
			0	NV	-11.60	-0.0139	>=-2.5 & <=2.5	Pass
			10	NV	6.90	0.0082	>=-2.5 & <=2.5	Pass
			20	NV	-5.20	-0.0062	>=-2.5 & <=2.5	Pass
			30	NV	7.50	0.0090	>=-2.5 & <=2.5	Pass
			40	NV	-8.30	-0.0099	>=-2.5 & <=2.5	Pass
50	NV	-9.40	-0.0112	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	836.5	Outer_Full	20	LV	-9.30	-0.0111	>=-2.5 & <=2.5	Pass
				HV	-9.80	-0.0117	>=-2.5 & <=2.5	Pass
			-30	NV	-8.80	-0.0105	>=-2.5 & <=2.5	Pass
			-20	NV	6.90	0.0082	>=-2.5 & <=2.5	Pass
			-10	NV	-11.50	-0.0137	>=-2.5 & <=2.5	Pass
			0	NV	-10.20	-0.0122	>=-2.5 & <=2.5	Pass



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			10	NV	-11.00	-0.0132	>=-2.5 & <=2.5	Pass			
			20	NV	-9.70	-0.0116	>=-2.5 & <=2.5	Pass			
			30	NV	-8.20	-0.0098	>=-2.5 & <=2.5	Pass			
			40	NV	-9.80	-0.0117	>=-2.5 & <=2.5	Pass			
			50	NV	-9.70	-0.0116	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	836.5	Outer_Full	20	LV	-11.80	-0.0141	>=-2.5 & <=2.5	Pass			
				HV	-9.00	-0.0108	>=-2.5 & <=2.5	Pass			
						-30	NV	-7.80	-0.0093	>=-2.5 & <=2.5	Pass
						-20	NV	7.70	0.0092	>=-2.5 & <=2.5	Pass
						-10	NV	-7.90	-0.0094	>=-2.5 & <=2.5	Pass
						0	NV	-9.10	-0.0109	>=-2.5 & <=2.5	Pass
						10	NV	-12.30	-0.0147	>=-2.5 & <=2.5	Pass
						20	NV	-8.70	-0.0104	>=-2.5 & <=2.5	Pass
						30	NV	-7.20	-0.0086	>=-2.5 & <=2.5	Pass
						40	NV	-9.70	-0.0116	>=-2.5 & <=2.5	Pass
			50	NV	-8.10	-0.0097	>=-2.5 & <=2.5	Pass			
CP-OFDM QPSK	836.5	Outer_Full	20	LV	-12.00	-0.0143	>=-2.5 & <=2.5	Pass			
				HV	-10.10	-0.0121	>=-2.5 & <=2.5	Pass			
						-30	NV	-10.40	-0.0124	>=-2.5 & <=2.5	Pass
						-20	NV	-12.70	-0.0152	>=-2.5 & <=2.5	Pass
						-10	NV	-11.10	-0.0133	>=-2.5 & <=2.5	Pass
						0	NV	-9.30	-0.0111	>=-2.5 & <=2.5	Pass
						10	NV	-12.60	-0.0151	>=-2.5 & <=2.5	Pass
						20	NV	-12.70	-0.0152	>=-2.5 & <=2.5	Pass
						30	NV	-11.10	-0.0133	>=-2.5 & <=2.5	Pass
						40	NV	-10.00	-0.0120	>=-2.5 & <=2.5	Pass
			50	NV	-10.10	-0.0121	>=-2.5 & <=2.5	Pass			
CP-OFDM 16 QAM	836.5	Outer_Full	20	LV	-10.10	-0.0121	>=-2.5 & <=2.5	Pass			
				HV	-11.00	-0.0132	>=-2.5 & <=2.5	Pass			
						-30	NV	-8.80	-0.0105	>=-2.5 & <=2.5	Pass
						-20	NV	-11.90	-0.0142	>=-2.5 & <=2.5	Pass
						-10	NV	-10.00	-0.0120	>=-2.5 & <=2.5	Pass
						0	NV	-14.30	-0.0171	>=-2.5 & <=2.5	Pass
						10	NV	-10.60	-0.0127	>=-2.5 & <=2.5	Pass
						20	NV	-10.00	-0.0120	>=-2.5 & <=2.5	Pass
						30	NV	-11.80	-0.0141	>=-2.5 & <=2.5	Pass
						40	NV	-13.50	-0.0161	>=-2.5 & <=2.5	Pass
			50	NV	-11.10	-0.0133	>=-2.5 & <=2.5	Pass			
CP-OFDM 64 QAM	836.5	Outer_Full	20	LV	-13.00	-0.0155	>=-2.5 & <=2.5	Pass			
				HV	-9.90	-0.0118	>=-2.5 & <=2.5	Pass			
						-30	NV	-10.10	-0.0121	>=-2.5 & <=2.5	Pass
						-20	NV	-12.60	-0.0151	>=-2.5 & <=2.5	Pass
						-10	NV	-13.60	-0.0163	>=-2.5 & <=2.5	Pass
						0	NV	-11.50	-0.0137	>=-2.5 & <=2.5	Pass
						10	NV	-11.30	-0.0135	>=-2.5 & <=2.5	Pass
						20	NV	-12.60	-0.0151	>=-2.5 & <=2.5	Pass
						30	NV	-11.20	-0.0134	>=-2.5 & <=2.5	Pass
						40	NV	-12.40	-0.0148	>=-2.5 & <=2.5	Pass
			50	NV	-12.50	-0.0149	>=-2.5 & <=2.5	Pass			
CP-OFDM 256 QAM	836.5	Outer_Full	20	LV	-13.20	-0.0158	>=-2.5 & <=2.5	Pass			
				HV	-11.30	-0.0135	>=-2.5 & <=2.5	Pass			
						-30	NV	-13.60	-0.0163	>=-2.5 & <=2.5	Pass
						-20	NV	-13.60	-0.0163	>=-2.5 & <=2.5	Pass
			-10	NV	-13.20	-0.0158	>=-2.5 & <=2.5	Pass			



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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

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		0	NV	-10.70	-0.0128	>=-2.5 & <=2.5	Pass
		10	NV	-13.60	-0.0163	>=-2.5 & <=2.5	Pass
		20	NV	-11.00	-0.0132	>=-2.5 & <=2.5	Pass
		30	NV	-12.10	-0.0145	>=-2.5 & <=2.5	Pass
		40	NV	-12.40	-0.0148	>=-2.5 & <=2.5	Pass
		50	NV	-13.90	-0.0166	>=-2.5 & <=2.5	Pass

## 2.7 30k\_SISO\_20MHz

### 2.7.1 Test Result

5G NR n5 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	836.5	Outer_Full	20	LV	2.80	0.0033	>=-2.5 & <=2.5	Pass
				HV	5.30	0.0063	>=-2.5 & <=2.5	Pass
			-30	NV	3.20	0.0038	>=-2.5 & <=2.5	Pass
			-20	NV	4.60	0.0055	>=-2.5 & <=2.5	Pass
			-10	NV	4.20	0.0050	>=-2.5 & <=2.5	Pass
			0	NV	4.40	0.0053	>=-2.5 & <=2.5	Pass
			10	NV	5.50	0.0066	>=-2.5 & <=2.5	Pass
			20	NV	4.70	0.0056	>=-2.5 & <=2.5	Pass
			30	NV	8.70	0.0104	>=-2.5 & <=2.5	Pass
			40	NV	7.10	0.0085	>=-2.5 & <=2.5	Pass
50	NV	5.10	0.0061	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	836.5	Outer_Full	20	LV	-9.20	-0.0110	>=-2.5 & <=2.5	Pass
				HV	-11.20	-0.0134	>=-2.5 & <=2.5	Pass
			-30	NV	-8.60	-0.0103	>=-2.5 & <=2.5	Pass
			-20	NV	-7.40	-0.0088	>=-2.5 & <=2.5	Pass
			-10	NV	-9.80	-0.0117	>=-2.5 & <=2.5	Pass
			0	NV	-9.80	-0.0117	>=-2.5 & <=2.5	Pass
			10	NV	-10.00	-0.0120	>=-2.5 & <=2.5	Pass
			20	NV	-9.10	-0.0109	>=-2.5 & <=2.5	Pass
			30	NV	-8.20	-0.0098	>=-2.5 & <=2.5	Pass
			40	NV	-8.70	-0.0104	>=-2.5 & <=2.5	Pass
50	NV	-6.30	-0.0075	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	836.5	Outer_Full	20	LV	-11.30	-0.0135	>=-2.5 & <=2.5	Pass
				HV	-13.40	-0.0160	>=-2.5 & <=2.5	Pass
			-30	NV	-10.00	-0.0120	>=-2.5 & <=2.5	Pass
			-20	NV	-12.90	-0.0154	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0060	>=-2.5 & <=2.5	Pass
			0	NV	-10.00	-0.0120	>=-2.5 & <=2.5	Pass
			10	NV	-5.90	-0.0071	>=-2.5 & <=2.5	Pass
			20	NV	-9.00	-0.0108	>=-2.5 & <=2.5	Pass
			30	NV	-8.90	-0.0106	>=-2.5 & <=2.5	Pass
			40	NV	-5.70	-0.0068	>=-2.5 & <=2.5	Pass
50	NV	-9.80	-0.0117	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	836.5	Outer_Full	20	LV	-9.20	-0.0110	>=-2.5 & <=2.5	Pass
				HV	-12.20	-0.0146	>=-2.5 & <=2.5	Pass
			-30	NV	-9.70	-0.0116	>=-2.5 & <=2.5	Pass
			-20	NV	-8.20	-0.0098	>=-2.5 & <=2.5	Pass
-10	NV	-11.50	-0.0137	>=-2.5 & <=2.5	Pass			



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			0	NV	-10.20	-0.0122	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	-8.50	-0.0102	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-9.60	-0.0115	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-12.10	-0.0145	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-10.70	-0.0128	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-11.40	-0.0136	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	836.5	Outer_Full	20	LV	-11.80	-0.0141	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-9.00	-0.0108	$\geq -2.5$ & $\leq 2.5$	Pass			
			-30	NV	-8.10	-0.0097	$\geq -2.5$ & $\leq 2.5$	Pass			
			-20	NV	-10.20	-0.0122	$\geq -2.5$ & $\leq 2.5$	Pass			
			-10	NV	-12.50	-0.0149	$\geq -2.5$ & $\leq 2.5$	Pass			
			0	NV	-10.60	-0.0127	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	-7.30	-0.0087	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	8.40	0.0100	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-8.20	-0.0098	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-7.80	-0.0093	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	5.40	0.0065	$\geq -2.5$ & $\leq 2.5$	Pass			
			CP-OFDM QPSK	836.5	Outer_Full	20	LV	-9.30	-0.0111	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-10.60	-0.0127	$\geq -2.5$ & $\leq 2.5$	Pass
						-30	NV	-10.60	-0.0127	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-12.90				-0.0154	$\geq -2.5$ & $\leq 2.5$	Pass			
-10	NV	-8.00				-0.0096	$\geq -2.5$ & $\leq 2.5$	Pass			
0	NV	-10.70				-0.0128	$\geq -2.5$ & $\leq 2.5$	Pass			
10	NV	-11.80				-0.0141	$\geq -2.5$ & $\leq 2.5$	Pass			
20	NV	-10.20				-0.0122	$\geq -2.5$ & $\leq 2.5$	Pass			
30	NV	-9.80				-0.0117	$\geq -2.5$ & $\leq 2.5$	Pass			
40	NV	-8.90				-0.0106	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-8.60				-0.0103	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	836.5	Outer_Full				20	LV	-12.80	-0.0153	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-10.60	-0.0127	$\geq -2.5$ & $\leq 2.5$	Pass
						-30	NV	-9.60	-0.0115	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-9.70	-0.0116	$\geq -2.5$ & $\leq 2.5$	Pass			
			-10	NV	-10.70	-0.0128	$\geq -2.5$ & $\leq 2.5$	Pass			
			0	NV	-11.40	-0.0136	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	-10.60	-0.0127	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-13.70	-0.0164	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-12.10	-0.0145	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-12.30	-0.0147	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-10.20	-0.0122	$\geq -2.5$ & $\leq 2.5$	Pass			
			CP-OFDM 64 QAM	836.5	Outer_Full	20	LV	-12.90	-0.0154	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-12.60	-0.0151	$\geq -2.5$ & $\leq 2.5$	Pass
						-30	NV	-10.70	-0.0128	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-13.40				-0.0160	$\geq -2.5$ & $\leq 2.5$	Pass			
-10	NV	-11.00				-0.0132	$\geq -2.5$ & $\leq 2.5$	Pass			
0	NV	-13.50				-0.0161	$\geq -2.5$ & $\leq 2.5$	Pass			
10	NV	-9.40				-0.0112	$\geq -2.5$ & $\leq 2.5$	Pass			
20	NV	-8.80				-0.0105	$\geq -2.5$ & $\leq 2.5$	Pass			
30	NV	-11.40				-0.0136	$\geq -2.5$ & $\leq 2.5$	Pass			
40	NV	-10.20				-0.0122	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-12.30				-0.0147	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	836.5	Outer_Full				20	LV	-8.80	-0.0105	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-8.20	-0.0098	$\geq -2.5$ & $\leq 2.5$	Pass
						-30	NV	-12.40	-0.0148	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-9.90	-0.0118	$\geq -2.5$ & $\leq 2.5$	Pass			



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			-10	NV	-9.60	-0.0115	>=-2.5 & <=2.5	Pass
			0	NV	-10.00	-0.0120	>=-2.5 & <=2.5	Pass
			10	NV	-9.20	-0.0110	>=-2.5 & <=2.5	Pass
			20	NV	-10.60	-0.0127	>=-2.5 & <=2.5	Pass
			30	NV	-11.70	-0.0140	>=-2.5 & <=2.5	Pass
			40	NV	-10.90	-0.0130	>=-2.5 & <=2.5	Pass
			50	NV	-11.20	-0.0134	>=-2.5 & <=2.5	Pass

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### 3. n7 Frequency Stability

#### 3.1 15k\_SISO\_5MHz

##### 3.1.1 Test Result

5G NR n7 SCS=15kHz SISO 5MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-9.60	-0.0038	>=-2.5 & <=2.5	Pass
			0	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
50	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
				HV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			30	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
50	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
				HV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-30	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
50	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			40	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
50	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2535	Outer_Full	20	LV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2535	Outer_Full	20	LV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			-30	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			30	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2535	Outer_Full	20	LV	-0.60	-0.0002	>=-2.5 & <=2.5	Pass
				HV	1.70	0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			-10	NV	1.40	0.0006	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
			30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
40	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass			



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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

886-512157350888 886-512157370911 www.sgs.com.cn  
 886-512157350888 886-512157370911 sgs.china@sgs.com



			50	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
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## 3.2 15k\_SISO\_10MHz

### 3.2.1 Test Result

5G NR n7 SCS=15kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-8.90	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-9.40	-0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-9.90	-0.0039	>=-2.5 & <=2.5	Pass
			20	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-10.40	-0.0041	>=-2.5 & <=2.5	Pass
			40	NV	-9.20	-0.0036	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			40	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			-30	NV	-2.80	-0.0011	>=-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	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			30	NV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
			40	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			-10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass



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 中国·江苏·昆山市留學生创业园伟业路18号 邮编 215300

0512-51257300 0512-51257301 www.sgs.com.cn  
 0512-51257300 0512-51257301 sgs.china@sgs.com

DFT-s-OFDM 256 QAM	2535	Outer_Full	50	NV	-6.30	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-3.20	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.50	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-2.30	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-3.10	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-2.90	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-1.90	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-2.70	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-3.50	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	2535	Outer_Full	20	LV	-8.80	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.30	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.60	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.80	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-6.80	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-10.60	-0.0042	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	2535	Outer_Full	20	LV	-7.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-8.00	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.50	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-7.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.00	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-6.00	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.00	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-6.80	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.30	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.60	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.80	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.10	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-7.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	2535	Outer_Full	20	LV	-6.80	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.30	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.00	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.50	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-9.00	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass			



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			40	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			50	NV	-10.30	-0.0041	>=-2.5 & <=2.5	Pass

3.3 15k\_SISO\_15MHz

3.3.1 Test Result

5G NR n7 SCS=15kHz SISO 15MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-4.30	-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	-3.30	-0.0013	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
				HV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
50	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			40	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
50	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	1.00	0.0004	>=-2.5 & <=2.5	Pass
			0	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			10	NV	-1.10	-0.0004	>=-2.5 & <=2.5	Pass
			20	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
30	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass			



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			40	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	2.00	0.0008	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-8.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-8.40	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-7.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-8.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-7.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-6.60	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-2.70	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	2535	Outer_Full	20	LV	-2.30	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.50	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-2.80	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-3.50	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-1.80	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.20	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-3.70	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-2.70	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-1.20	-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	2535	Outer_Full	20	LV	-1.50	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.70	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-4.50	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.10	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-3.70	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-2.30	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-2.30	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-3.10	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.70	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	2535	Outer_Full	20	LV	-8.00	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.00	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-5.20	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.00	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-4.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass



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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300  
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

86-512(5737000) 86-512(5737011) www.sgs.com.cn  
 86-512(5735000) 86-512(5737011) sgs.china@sgs.com

			30	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			50	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass

3.4 15k\_SISO\_20MHz

3.4.1 Test Result

5G NR n7 SCS=15kHz SISO 20MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
50	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-9.20	-0.0036	>=-2.5 & <=2.5	Pass
				HV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			30	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
50	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
50	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass



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			30	NV	-8.90	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-8.90	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-8.90	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-10.20	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-9.00	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-0.90	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	1.80	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-2.80	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-2.70	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-1.90	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	2535	Outer_Full	20	LV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-6.60	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.30	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-8.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.00	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-7.00	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-8.00	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	2535	Outer_Full	20	LV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.00	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-6.00	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.50	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-7.00	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.60	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.00	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.50	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.50	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-8.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-8.70	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-7.30	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	2535	Outer_Full	20	LV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-3.70	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-2.80	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-3.70	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			



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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

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			20	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	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	-6.60	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass

### 3.5 15k\_SISO\_25MHz

#### 3.5.1 Test Result

5G NR n7 SCS=15kHz SISO 25MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-9.90	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.30	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-9.20	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-8.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-11.90	-0.0047	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-7.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-5.50	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.50	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-7.10	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-8.00	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.20	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-5.00	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.50	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-3.50	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.30	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.60	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.70	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.00	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.00	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-5.30	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass			



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			20	NV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.20	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-6.30	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-8.00	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.10	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-7.10	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-9.10	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	2535	Outer_Full	20	LV	-8.70	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-8.40	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-8.80	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.80	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-8.00	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	2535	Outer_Full	20	LV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-6.30	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.10	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-7.10	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-5.80	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.20	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.80	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.00	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-5.00	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-8.60	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-8.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-1.70	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	1.00	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-0.90	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	2535	Outer_Full	20	LV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-3.20	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-1.80	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass			



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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留學生创业园伟业路10号 邮编 215300

0085-512157350888 006-512157370911 www.sgs.com.cn

0085-512157350888 006-512157370911 sgs.china@sgs.com



			10	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-2.20	-0.0009	>=-2.5 & <=2.5	Pass
			50	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass

### 3.6 15k\_SISO\_30MHz

#### 3.6.1 Test Result

5G NR n7 SCS=15kHz SISO 30MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-10.90	-0.0043	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-9.10	-0.0036	>=-2.5 & <=2.5	Pass
			10	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
50	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
				HV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-1.50	-0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	1.10	0.0004	>=-2.5 & <=2.5	Pass
			30	NV	0.30	0.0001	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
50	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			-30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	1.30	0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass
			40	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
50	NV	1.70	0.0007	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-2.00	-0.0008	>=-2.5 & <=2.5	Pass
				HV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	0.40	0.0002	>=-2.5 & <=2.5	Pass
			-20	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-1.60	-0.0006	>=-2.5 & <=2.5	Pass
0	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass			



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			10	NV	-1.30	-0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
			20	NV	-2.00	-0.0008	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
			30	NV	-1.70	-0.0007	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
			40	NV	-0.90	-0.0004	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
			50	NV	-1.60	-0.0006	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-6.90	-0.0027	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
				HV	-6.60	-0.0026	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
						-30	NV	-8.30	-0.0033	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						-20	NV	-6.30	-0.0025	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						-10	NV	-9.00	-0.0036	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						0	NV	-7.40	-0.0029	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						10	NV	-9.70	-0.0038	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						20	NV	-5.90	-0.0023	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						30	NV	-8.00	-0.0032	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						40	NV	-5.50	-0.0022	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-6.20	-0.0024	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
CP-OFDM QPSK	2535	Outer_Full	20	LV	-3.10	-0.0012	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
				HV	-2.30	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
						-30	NV	-4.10	-0.0016	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						-20	NV	-0.60	-0.0002	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						-10	NV	-2.90	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						0	NV	-2.30	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						10	NV	-3.60	-0.0014	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						20	NV	-3.40	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						30	NV	-3.20	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						40	NV	-2.70	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	0.90	0.0004	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
CP-OFDM 16 QAM	2535	Outer_Full	20	LV	1.90	0.0007	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
				HV	-1.90	-0.0007	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
						-30	NV	-2.40	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						-20	NV	-2.20	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						-10	NV	-0.80	-0.0003	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						0	NV	-3.20	-0.0013	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						10	NV	-1.20	-0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						20	NV	-0.50	-0.0002	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						30	NV	-2.30	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						40	NV	1.10	0.0004	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-4.40	-0.0017	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-2.40	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
				HV	-1.30	-0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
						-30	NV	-1.60	-0.0006	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						-20	NV	1.30	0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						-10	NV	-3.80	-0.0015	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						0	NV	-2.80	-0.0011	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						10	NV	1.40	0.0006	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						20	NV	-1.30	-0.0005	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						30	NV	-0.90	-0.0004	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						40	NV	-2.20	-0.0009	$\geq -2.5 \ \& \ \leq 2.5$	Pass
			50	NV	-0.70	-0.0003	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
CP-OFDM 256 QAM	2535	Outer_Full	20	LV	-8.90	-0.0035	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
				HV	-7.90	-0.0031	$\geq -2.5 \ \& \ \leq 2.5$	Pass			
						-30	NV	-10.60	-0.0042	$\geq -2.5 \ \& \ \leq 2.5$	Pass
						-20	NV	-9.20	-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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 中国·江苏·昆山市留學生创业园伟业路18号 邮编 215300

886-512157350888 886-512157370911 www.sgs.com.cn  
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		0	NV	-8.40	-0.0033	>=-2.5 & <=2.5	Pass
		10	NV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
		20	NV	-8.40	-0.0033	>=-2.5 & <=2.5	Pass
		30	NV	-9.30	-0.0037	>=-2.5 & <=2.5	Pass
		40	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
		50	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass

### 3.7 15k\_SISO\_40MHz

#### 3.7.1 Test Result

5G NR n7 SCS=15kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
				HV	-9.40	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-10.70	-0.0042	>=-2.5 & <=2.5	Pass
			-20	NV	-5.10	-0.0020	>=-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	-8.40	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
50	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-1.40	-0.0006	>=-2.5 & <=2.5	Pass
			30	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
50	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
			40	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
50	NV	-2.10	-0.0008	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass



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			0	NV	-2.90	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.50	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-7.00	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-8.00	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-11.70	-0.0046	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-8.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-9.90	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-9.30	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-9.80	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-9.00	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-9.00	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM QPSK	2535	Outer_Full	20	LV	-3.90
HV	-3.60	-0.0014					$\geq -2.5$ & $\leq 2.5$	Pass
-30	NV	-2.90				-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-6.30				-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
-10	NV	-6.70				-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-4.30				-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-5.30				-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
20	NV	1.20				0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-3.40				-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-1.90				-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-4.00				-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-4.20
			HV	-1.10	-0.0004		$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	1.30	0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-2.10	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-2.00	-0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-1.80	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-1.00	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-2.60	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	1.40	0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-3.00
HV	-3.40	-0.0013					$\geq -2.5$ & $\leq 2.5$	Pass
-30	NV	-1.30				-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-1.20				-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
-10	NV	-2.40				-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-2.60				-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-2.90				-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
20	NV	-2.60				-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-2.80				-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-2.70				-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-0.80				-0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	-6.00
			HV	-4.60	-0.0018		$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.30	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass



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 中国·江苏·昆山市留學生创业园伟业路18号 邮编 215300

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 886-512157350888 886-512157370911 sgs.china@sgs.com

			-10	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
			30	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			50	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass

## 3.8 15k\_SISO\_50MHz

### 3.8.1 Test Result

5G NR n7 SCS=15kHz SISO 50MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-4.00	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
50	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-8.60	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
50	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-6.60	-0.0026	>=-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	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-8.60	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
50	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-30	NV	-9.90	-0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass



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			-10	NV	-9.00	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass			
			0	NV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass			
			10	NV	-6.30	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass			
			20	NV	-8.50	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass			
			30	NV	-7.90	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass			
			40	NV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-8.40	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-4.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.70	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-4.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.70	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-3.70	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM QPSK	2535	Outer_Full	20	LV	-2.90	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-5.50	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
									-30	NV	-6.40
						-20	NV	-3.10	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.50	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-2.30	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-3.20	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-4.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-4.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-3.10	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
									-30	NV	-4.00
						-20	NV	-4.60	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-6.80	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-6.30	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-6.50	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-4.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-5.50	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
									-30	NV	-3.10
						-20	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	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	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-7.00	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-4.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-7.30	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	-5.30	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
							HV	-4.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
									-30	NV	-10.80



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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

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			-20	NV	-9.80	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-9.70	-0.0038	>=-2.5 & <=2.5	Pass
			0	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			50	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass

### 3.9 30k\_SISO\_10MHz

#### 3.9.1 Test Result

5G NR n7 SCS=30kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-11.20	-0.0044	>=-2.5 & <=2.5	Pass
				HV	-9.30	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
			10	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
50	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-10.80	-0.0043	>=-2.5 & <=2.5	Pass
50	NV	-13.00	-0.0051	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-8.50	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-9.70	-0.0038	>=-2.5 & <=2.5	Pass
			0	NV	-9.70	-0.0038	>=-2.5 & <=2.5	Pass
			10	NV	-9.30	-0.0037	>=-2.5 & <=2.5	Pass
			20	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-8.90	-0.0035	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass



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			-20	NV	-8.40	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-8.50	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-11.30	-0.0045	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.50	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-10.30	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-7.50	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-11.10	-0.0044	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-11.00	-0.0043	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-8.40	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-12.10	-0.0048	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-11.00	-0.0043	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-10.60	-0.0042	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-12.70	-0.0050	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-10.30	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-10.00	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-9.90	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-13.70	-0.0054	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM QPSK	2535	Outer_Full	20	LV	-6.00
	HV	-4.40				-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
-30	NV	-5.80				-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-6.00				-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
-10	NV	-2.70				-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-5.70				-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-6.10				-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
20	NV	-5.40				-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-3.20				-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-2.70				-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-4.40				-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	2535	Outer_Full				20	LV	-12.40
				HV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-8.70	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-10.60	-0.0042	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-10.20	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-7.90	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-8.40	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.50	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-7.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.30	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-7.10	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-9.30
	HV	-8.20				-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
-30	NV	-8.40				-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
-20	NV	-8.10				-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
-10	NV	-7.20				-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
0	NV	-6.40				-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
10	NV	-6.00				-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
20	NV	-9.60				-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-7.40				-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-9.60				-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-5.10				-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	2535	Outer_Full				20	LV	-8.30
				HV	-6.00	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass



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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

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			-30	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-11.30	-0.0045	>=-2.5 & <=2.5	Pass
			-10	NV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-9.30	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
			40	NV	-9.20	-0.0036	>=-2.5 & <=2.5	Pass
			50	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass

### 3.10 30k\_SISO\_15MHz

#### 3.10.1 Test Result

5G NR n7 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	2535	Outer_Full	20	LV	-12.60	-0.0050	>=-2.5 & <=2.5	Pass
				HV	-12.50	-0.0049	>=-2.5 & <=2.5	Pass
			-30	NV	-10.60	-0.0042	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-9.40	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-15.10	-0.0060	>=-2.5 & <=2.5	Pass
			10	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-10.40	-0.0041	>=-2.5 & <=2.5	Pass
			30	NV	-9.30	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
50	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-10.30	-0.0041	>=-2.5 & <=2.5	Pass
				HV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
			-30	NV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-10.90	-0.0043	>=-2.5 & <=2.5	Pass
			10	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
50	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-9.90	-0.0039	>=-2.5 & <=2.5	Pass
			-10	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-9.20	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-8.60	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
			40	NV	-9.60	-0.0038	>=-2.5 & <=2.5	Pass
50	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-10.90	-0.0043	>=-2.5 & <=2.5	Pass
				HV	-11.00	-0.0043	>=-2.5 & <=2.5	Pass



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			-30	NV	-11.30	-0.0045	>=-2.5 & <=2.5	Pass
			-20	NV	-11.40	-0.0045	>=-2.5 & <=2.5	Pass
			-10	NV	-11.80	-0.0047	>=-2.5 & <=2.5	Pass
			0	NV	-10.80	-0.0043	>=-2.5 & <=2.5	Pass
			10	NV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
			40	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			50	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
			30	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2535	Outer_Full	20	LV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
				HV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2535	Outer_Full	20	LV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			-20	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-9.60	-0.0038	>=-2.5 & <=2.5	Pass
			-10	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-9.30	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2535	Outer_Full	20	LV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass



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				HV	-5.30	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.10	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-7.10	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-9.10	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-8.10	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.70	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass

### 3.11 30k\_SISO\_20MHz

#### 3.11.1 Test Result

5G NR n7 SCS=30kHz SISO 20MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-8.90	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.80	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	-8.10	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
				0	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$
			10	NV	-6.50	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-9.50	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-10.00	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-9.30	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-6.60	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-6.50	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	-9.00	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.50	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
				0	NV	-5.30	-0.0021	$\geq -2.5$ & $\leq 2.5$
			10	NV	-8.80	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-9.30	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-9.90	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-9.50	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-8.90	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-8.40	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-6.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-8.00	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
				NV	-7.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-3.50	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
				0	NV	-9.60	-0.0038	$\geq -2.5$ & $\leq 2.5$
			10	NV	-9.10	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-9.40	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-8.90	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-10.40	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-8.10	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-8.40	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass



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				HV	-7.90	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-11.90	-0.0047	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-10.00	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-10.20	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-9.20	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-10.90	-0.0043	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.50	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-10.70	-0.0042	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-11.70	-0.0046	$\geq -2.5$ & $\leq 2.5$	Pass
DFT-s-OFDM 256 QAM	2535	Outer_Full	50	NV	-11.40	-0.0045	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-10.10	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-10.20	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-8.00	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-9.40	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-9.10	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-9.80	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-9.20	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	1.80	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM QPSK	2535	Outer_Full	30	NV	-4.70	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	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	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-4.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.50	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 16 QAM	2535	Outer_Full	10	NV	-7.10	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-6.00	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.50	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-6.00	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.00	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-6.30	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.10	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 64 QAM	2535	Outer_Full	-10	NV	-5.50	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-2.90	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-6.80	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-3.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-8.60	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-7.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-5.60	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.20	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-3.10	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.10	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.50	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-6.80	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass



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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

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 886-512157350888 886-512157370911 sgs.china@sgs.com

CP-OFDM 256 QAM	2535	Outer_Full	20	LV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
				HV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			20	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-9.70	-0.0038	>=-2.5 & <=2.5	Pass
50	NV	-9.90	-0.0039	>=-2.5 & <=2.5	Pass			

### 3.12 30k\_SISO\_25MHz

#### 3.12.1 Test Result

5G NR n7 SCS=30kHz SISO 25MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-12.10	-0.0048	>=-2.5 & <=2.5	Pass
				HV	-13.50	-0.0053	>=-2.5 & <=2.5	Pass
			-30	NV	-10.90	-0.0043	>=-2.5 & <=2.5	Pass
			-20	NV	-16.80	-0.0066	>=-2.5 & <=2.5	Pass
			-10	NV	-10.30	-0.0041	>=-2.5 & <=2.5	Pass
			0	NV	-10.50	-0.0041	>=-2.5 & <=2.5	Pass
			10	NV	-12.90	-0.0051	>=-2.5 & <=2.5	Pass
			20	NV	-10.50	-0.0041	>=-2.5 & <=2.5	Pass
			30	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			40	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
50	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-4.70	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-9.30	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-10.40	-0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
50	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-8.30	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-9.30	-0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			0	NV	-8.60	-0.0034	>=-2.5 & <=2.5	Pass
			10	NV	-9.20	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
50	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-11.60	-0.0046	>=-2.5 & <=2.5	Pass
			-20	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-8.60	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-10.80	-0.0043	>=-2.5 & <=2.5	Pass
			30	NV	-9.20	-0.0036	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-8.50	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-9.20	-0.0036	>=-2.5 & <=2.5	Pass
			10	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0026	>=-2.5 & <=2.5	Pass
			30	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2535	Outer_Full	20	LV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-10.80	-0.0043	>=-2.5 & <=2.5	Pass
			-20	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-5.00	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-10.60	-0.0042	>=-2.5 & <=2.5	Pass
			20	NV	-9.60	-0.0038	>=-2.5 & <=2.5	Pass
			30	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2535	Outer_Full	20	LV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-10.40	-0.0041	>=-2.5 & <=2.5	Pass
			10	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-9.40	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-9.40	-0.0037	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-10.10	-0.0040	>=-2.5 & <=2.5	Pass
				HV	-10.80	-0.0043	>=-2.5 & <=2.5	Pass
			-30	NV	-11.60	-0.0046	>=-2.5 & <=2.5	Pass
			-20	NV	-12.00	-0.0047	>=-2.5 & <=2.5	Pass
			-10	NV	-10.40	-0.0041	>=-2.5 & <=2.5	Pass
			0	NV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-10.30	-0.0041	>=-2.5 & <=2.5	Pass
			20	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
40	NV	-10.10	-0.0040	>=-2.5 & <=2.5	Pass			



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886-512157350888 886-512157370911 www.sgs.com.cn  
 886-512157350888 886-512157370911 sgs.china@sgs.com

CP-OFDM 256 QAM	2535	Outer_Full	50	NV	-9.60	-0.0038	>=-2.5 & <=2.5	Pass
			20	LV	-11.60	-0.0046	>=-2.5 & <=2.5	Pass
				HV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			-30	NV	-7.80	-0.0031	>=-2.5 & <=2.5	Pass
			-20	NV	-9.10	-0.0036	>=-2.5 & <=2.5	Pass
			-10	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	3.20	0.0013	>=-2.5 & <=2.5	Pass
			20	NV	3.10	0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			40	NV	-2.40	-0.0009	>=-2.5 & <=2.5	Pass
50	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass			

3.13 30k\_SISO\_30MHz

3.13.1 Test Result

5G NR n7 SCS=30kHz SISO 30MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-9.80	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			-10	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-8.90	-0.0035	>=-2.5 & <=2.5	Pass
			30	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			50	NV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-10.50	-0.0041	>=-2.5 & <=2.5	Pass
				HV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			-20	NV	-9.60	-0.0038	>=-2.5 & <=2.5	Pass
			-10	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
			10	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			50	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			-30	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			20	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			40	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass



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DFT-s-OFDM 64 QAM	2535	Outer_Full	50	NV	-7.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-10.00	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-9.70	-0.0038	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-11.00	-0.0043	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-9.40	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-8.80	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-13.10	-0.0052	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-8.20	-0.0032	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-10.50	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	-9.90	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-9.90	-0.0039	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-12.10	-0.0048	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-7.40	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-7.10	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-7.50	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-11.20	-0.0044	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-11.50	-0.0045	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-13.20	-0.0052	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-10.60	-0.0042	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-8.80	-0.0035	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-10.60	-0.0042	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	2535	Outer_Full	20	LV	-2.90	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.70	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-2.40	-0.0009	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-2.70	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-3.50	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-6.20	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-5.30	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	2535	Outer_Full	20	LV	-5.50	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.40	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-6.30	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.90	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.00	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-3.40	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.70	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-4.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.90	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.30	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-3.60	-0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-6.40	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-4.70	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-3.30	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-5.70	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass			



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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

886-512157350888 886-512157370911 www.sgs.com.cn

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CP-OFDM 256 QAM	2535	Outer_Full	40	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			50	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			20	LV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-9.10	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-8.90	-0.0035	>=-2.5 & <=2.5	Pass
			-20	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-8.40	-0.0033	>=-2.5 & <=2.5	Pass
			0	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-11.10	-0.0044	>=-2.5 & <=2.5	Pass
			40	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
50	NV	-10.50	-0.0041	>=-2.5 & <=2.5	Pass			

### 3.14 30k\_SISO\_40MHz

#### 3.14.1 Test Result

5G NR n7 SCS=30kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-9.20	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-12.70	-0.0050	>=-2.5 & <=2.5	Pass
			-20	NV	-11.50	-0.0045	>=-2.5 & <=2.5	Pass
			-10	NV	-13.50	-0.0053	>=-2.5 & <=2.5	Pass
			0	NV	-11.00	-0.0043	>=-2.5 & <=2.5	Pass
			10	NV	-9.30	-0.0037	>=-2.5 & <=2.5	Pass
			20	NV	-11.70	-0.0046	>=-2.5 & <=2.5	Pass
			30	NV	-11.20	-0.0044	>=-2.5 & <=2.5	Pass
			40	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
50	NV	-8.50	-0.0034	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-8.60	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			-20	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-8.50	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-7.00	-0.0028	>=-2.5 & <=2.5	Pass
			-30	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			10	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
			40	NV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
50	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass			



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DFT-s-OFDM 64 QAM	2535	Outer_Full	20	LV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
				HV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			-10	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-4.80	-0.0019	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-9.70	-0.0038	>=-2.5 & <=2.5	Pass
			-30	NV	-12.70	-0.0050	>=-2.5 & <=2.5	Pass
			-20	NV	-11.60	-0.0046	>=-2.5 & <=2.5	Pass
			-10	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			0	NV	-10.80	-0.0043	>=-2.5 & <=2.5	Pass
			10	NV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-9.60	-0.0038	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2535	Outer_Full	20	LV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			-30	NV	-8.50	-0.0034	>=-2.5 & <=2.5	Pass
			-20	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-8.60	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-11.50	-0.0045	>=-2.5 & <=2.5	Pass
			10	NV	-10.00	-0.0039	>=-2.5 & <=2.5	Pass
			20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2535	Outer_Full	20	LV	-10.20	-0.0040	>=-2.5 & <=2.5	Pass
				HV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-10.30	-0.0041	>=-2.5 & <=2.5	Pass
			-20	NV	-10.20	-0.0040	>=-2.5 & <=2.5	Pass
			-10	NV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	-9.10	-0.0036	>=-2.5 & <=2.5	Pass
			10	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-10.60	-0.0042	>=-2.5 & <=2.5	Pass
			30	NV	-9.20	-0.0036	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
				HV	-9.00	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-10.80	-0.0043	>=-2.5 & <=2.5	Pass
			-20	NV	-9.10	-0.0036	>=-2.5 & <=2.5	Pass
			-10	NV	-7.50	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			10	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-7.10	-0.0028	>=-2.5 & <=2.5	Pass
40	NV	-9.50	-0.0037	>=-2.5 & <=2.5	Pass			



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中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

886-512157350888 886-512157370911 www.sgs.com.cn

886-512157350888 886-512157370911 sgs.china@sgs.com

CP-OFDM 256 QAM	2535	Outer_Full	50	NV	-8.00	-0.0032	>=-2.5 & <=2.5	Pass
			20	LV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-1.90	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	2.00	0.0008	>=-2.5 & <=2.5	Pass
			-20	NV	-3.50	-0.0014	>=-2.5 & <=2.5	Pass
			-10	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			20	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			30	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			40	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
50	NV	-5.20	-0.0021	>=-2.5 & <=2.5	Pass			

3.15 30k\_SISO\_50MHz

3.15.1 Test Result

5G NR n7 SCS=30kHz SISO 50MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2535	Outer_Full	20	LV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-12.00	-0.0047	>=-2.5 & <=2.5	Pass
			-10	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-10.20	-0.0040	>=-2.5 & <=2.5	Pass
			10	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-9.60	-0.0038	>=-2.5 & <=2.5	Pass
			30	NV	-9.40	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-9.70	-0.0038	>=-2.5 & <=2.5	Pass
			50	NV	-11.70	-0.0046	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2535	Outer_Full	20	LV	-3.00	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-4.50	-0.0018	>=-2.5 & <=2.5	Pass
			-30	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			-20	NV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			-10	NV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-2.30	-0.0009	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-10.30	-0.0041	>=-2.5 & <=2.5	Pass
			40	NV	-11.00	-0.0043	>=-2.5 & <=2.5	Pass
			50	NV	-14.00	-0.0055	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2535	Outer_Full	20	LV	-11.80	-0.0047	>=-2.5 & <=2.5	Pass
				HV	-12.20	-0.0048	>=-2.5 & <=2.5	Pass
			-30	NV	-9.60	-0.0038	>=-2.5 & <=2.5	Pass
			-20	NV	-10.10	-0.0040	>=-2.5 & <=2.5	Pass
			-10	NV	-13.00	-0.0051	>=-2.5 & <=2.5	Pass
			0	NV	-12.20	-0.0048	>=-2.5 & <=2.5	Pass
			10	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-5.50	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass



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DFT-s-OFDM 64 QAM	2535	Outer_Full	50	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			20	LV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-7.30	-0.0029	>=-2.5 & <=2.5	Pass
			-20	NV	-9.60	-0.0038	>=-2.5 & <=2.5	Pass
			-10	NV	-6.60	-0.0026	>=-2.5 & <=2.5	Pass
			0	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-8.50	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-10.70	-0.0042	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	2535	Outer_Full	20	LV	-11.40	-0.0045	>=-2.5 & <=2.5	Pass
				HV	-10.30	-0.0041	>=-2.5 & <=2.5	Pass
			-30	NV	-13.70	-0.0054	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-12.20	-0.0048	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-12.30	-0.0049	>=-2.5 & <=2.5	Pass
			20	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-11.60	-0.0046	>=-2.5 & <=2.5	Pass
			40	NV	-9.80	-0.0039	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	2535	Outer_Full	20	LV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
				HV	-6.30	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	2.70	0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			10	NV	-3.90	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-4.30	-0.0017	>=-2.5 & <=2.5	Pass
			30	NV	-5.80	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-7.60	-0.0030	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2535	Outer_Full	20	LV	0.90	0.0004	>=-2.5 & <=2.5	Pass
				HV	-8.10	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			-10	NV	-4.20	-0.0017	>=-2.5 & <=2.5	Pass
			0	NV	-6.00	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-3.70	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	1.60	0.0006	>=-2.5 & <=2.5	Pass
			30	NV	-3.20	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	2535	Outer_Full	20	LV	-5.30	-0.0021	>=-2.5 & <=2.5	Pass
				HV	-7.90	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-3.40	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			0	NV	-8.80	-0.0035	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			20	NV	-6.80	-0.0027	>=-2.5 & <=2.5	Pass
30	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass			



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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

886-512157350888 886-512157370811 www.sgs.com.cn  
 886-512157350888 886-512157370811 sgs.china@sgs.com

			40	NV	-2.70	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	1.60	0.0006	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	2535	Outer_Full	20	LV	-7.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-9.20	-0.0036	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-7.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-9.50	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-13.20	-0.0052	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-5.80	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-4.80	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.80	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-4.40	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-4.30	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass
						50	NV	-2.50	-0.0010	$\geq -2.5$ & $\leq 2.5$	Pass



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 中国·江苏·昆山市留学生创业园伟业路18号 邮编 215300

(86-512)57350888 (86-512)57370011 www.sgs.com.cn  
 (86-512)57350883 (86-512)57370011 sgs.china@sgs.com

4. n25 Frequency Stability

4.1 15k\_SISO\_5MHz

4.1.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	-7.40	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-4.10	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-5.60	-0.0030	>=-2.5 & <=2.5	Pass
				NV	-5.60	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-5.90	-0.0031	>=-2.5 & <=2.5	Pass
				NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
				NV	-4.50	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
				NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
30	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass			
	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	-6.30	-0.0033	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-5.90	-0.0031	>=-2.5 & <=2.5	Pass
				NV	-6.60	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
				NV	-6.70	-0.0036	>=-2.5 & <=2.5	Pass
			0	NV	-5.60	-0.0030	>=-2.5 & <=2.5	Pass
				NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
				NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
30	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass			
	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			-30	NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
				NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-1.80	-0.0010	>=-2.5 & <=2.5	Pass
				NV	-2.50	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass
				NV	-2.60	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
				NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
30	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass			
	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-4.50	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-6.90	-0.0037	>=-2.5 & <=2.5	Pass
				NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
				NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
				NV	-2.00	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
				NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
30	NV	-2.20	-0.0012	>=-2.5 & <=2.5	Pass			
	NV	-2.20	-0.0012	>=-2.5 & <=2.5	Pass			



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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

086-51215735088 086-51215737011 www.sgs.com.cn  
 086-51215735088 086-51215737011 sgs.china@sgs.com

DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
			0	NV	-5.00	-0.0027	>=-2.5 & <=2.5	Pass
			10	NV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass
			20	NV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	-6.50	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-7.60	-0.0040	>=-2.5 & <=2.5	Pass
			-20	NV	-7.00	-0.0037	>=-2.5 & <=2.5	Pass
			-10	NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			0	NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-6.40	-0.0034	>=-2.5 & <=2.5	Pass
			30	NV	-4.90	-0.0026	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-5.30	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-6.30	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-6.30	-0.0033	>=-2.5 & <=2.5	Pass
			-20	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			0	NV	-6.00	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-4.80	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-6.70	-0.0036	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0041	>=-2.5 & <=2.5	Pass
			10	NV	-6.00	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-7.50	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	-6.20	-0.0033	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
			-30	NV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
			-20	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0034	>=-2.5 & <=2.5	Pass
			0	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	-6.70	-0.0036	>=-2.5 & <=2.5	Pass
			20	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
40	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass			



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			50	NV	-5.60	-0.0030	>=-2.5 & <=2.5	Pass
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## 4.2 15k\_SISO\_10MHz

### 4.2.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-6.80	-0.0036	>=-2.5 & <=2.5	Pass
			-30	NV	-6.10	-0.0032	>=-2.5 & <=2.5	Pass
			-20	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
			0	NV	-6.80	-0.0036	>=-2.5 & <=2.5	Pass
			10	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
			20	NV	-5.70	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-2.50	-0.0013	>=-2.5 & <=2.5	Pass
			40	NV	-6.60	-0.0035	>=-2.5 & <=2.5	Pass
50	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	-6.00	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-5.90	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-5.60	-0.0030	>=-2.5 & <=2.5	Pass
			-20	NV	-6.00	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-8.30	-0.0044	>=-2.5 & <=2.5	Pass
			0	NV	-5.40	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-7.30	-0.0039	>=-2.5 & <=2.5	Pass
			20	NV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-3.70	-0.0020	>=-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	-1.00	-0.0005	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0033	>=-2.5 & <=2.5	Pass
			-30	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-1.20	-0.0006	>=-2.5 & <=2.5	Pass
			10	NV	-3.00	-0.0016	>=-2.5 & <=2.5	Pass
			20	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	-2.60	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-1.80	-0.0010	>=-2.5 & <=2.5	Pass
50	NV	-2.70	-0.0014	>=-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	-4.30	-0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	-0.50	-0.0003	>=-2.5 & <=2.5	Pass
			-20	NV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-3.00	-0.0016	>=-2.5 & <=2.5	Pass
			10	NV	-1.10	-0.0006	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
40	NV	-2.50	-0.0013	>=-2.5 & <=2.5	Pass			



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0512-51257300 0512-51257301 www.sgs.com.cn  
 0512-51257300 0512-51257301 sgs.china@sgs.com



DFT-s-OFDM 256 QAM	1882.5	Outer_Full	50	NV	-2.10	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
			20	LV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-1.10	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	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	-1.20	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-2.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
40	NV	1.40	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass			
50	NV	-2.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	-5.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-6.20	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-5.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-4.40	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-4.50	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.60	-0.0040	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.90	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-4.80	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-3.20	-0.0017	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.40	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.90	-0.0026	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-5.90	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-4.80	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-4.50	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-4.80	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.60	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.50	-0.0024	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-4.20	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-5.20	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-5.70	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.10	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
50	NV	-4.80	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-1.10	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-4.40	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-2.90	-0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-2.30	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-1.30	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
30	NV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass			



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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

886-512157350888 886-512157370811 www.sgs.com.cn  
 886-512157350888 886-512157370811 sgs.china@sgs.com

			40	NV	-3.40	-0.0018	>=-2.5 & <=2.5	Pass
			50	NV	-4.90	-0.0026	>=-2.5 & <=2.5	Pass

### 4.3 15k\_SISO\_15MHz

#### 4.3.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	-6.10	-0.0032	>=-2.5 & <=2.5	Pass
				HV	-1.40	-0.0007	>=-2.5 & <=2.5	Pass
			-30	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-5.50	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-4.80	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			10	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
			20	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass
			30	NV	-4.80	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	1882.5	Outer_Full	20	LV	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-4.60	-0.0024	>=-2.5 & <=2.5	Pass
			-30	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-5.00	-0.0027	>=-2.5 & <=2.5	Pass
			20	NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
			40	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-6.00	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-6.50	-0.0035	>=-2.5 & <=2.5	Pass
			-10	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			0	NV	-5.20	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0024	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-3.20	-0.0017	>=-2.5 & <=2.5	Pass
				HV	-5.90	-0.0031	>=-2.5 & <=2.5	Pass
			-30	NV	-4.80	-0.0025	>=-2.5 & <=2.5	Pass
			-20	NV	-5.00	-0.0027	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-2.60	-0.0014	>=-2.5 & <=2.5	Pass
			10	NV	-4.00	-0.0021	>=-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			



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			40	NV	-3.50	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
			50	NV	-5.30	-0.0028	$\geq -2.5$ & $\leq 2.5$	Pass			
DFT-s-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-3.00	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-4.10	-0.0022	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-4.40	-0.0023	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-4.00	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-4.80	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-6.30	-0.0033	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	-2.50	-0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-2.10	-0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM QPSK	1882.5	Outer_Full	20	LV	2.00	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	0.70	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	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
						-10	NV	-1.30	-0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	2.70	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	2.60	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	1.90	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-1.20	-0.0006	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	1.50	0.0008	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	1.70	0.0009	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 16 QAM	1882.5	Outer_Full	20	LV	1.40	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	1.80	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	2.20	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	1.30	0.0007	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	2.40	0.0013	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	0.50	0.0003	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	0.40	0.0002	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	2.30	0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						30	NV	-0.90	-0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	0.80	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	0.60	0.0003	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 64 QAM	1882.5	Outer_Full	20	LV	2.80	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	2.70	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-2.20	-0.0012	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	2.00	0.0011	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	0.70	0.0004	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	1.80	0.0010	$\geq -2.5$ & $\leq 2.5$	Pass
						10	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
						30	NV	2.90	0.0015	$\geq -2.5$ & $\leq 2.5$	Pass
						40	NV	0.90	0.0005	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-0.80	-0.0004	$\geq -2.5$ & $\leq 2.5$	Pass			
CP-OFDM 256 QAM	1882.5	Outer_Full	20	LV	-5.80	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass			
				HV	-6.40	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass			
						-30	NV	-5.50	-0.0029	$\geq -2.5$ & $\leq 2.5$	Pass
						-20	NV	-4.70	-0.0025	$\geq -2.5$ & $\leq 2.5$	Pass
						-10	NV	-3.40	-0.0018	$\geq -2.5$ & $\leq 2.5$	Pass
						0	NV	-3.10	-0.0016	$\geq -2.5$ & $\leq 2.5$	Pass
						10	NV	-3.60	-0.0019	$\geq -2.5$ & $\leq 2.5$	Pass
						20	NV	-3.80	-0.0020	$\geq -2.5$ & $\leq 2.5$	Pass



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 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

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			30	NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-4.70	-0.0025	>=-2.5 & <=2.5	Pass
			50	NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass

4.4 15k\_SISO\_20MHz

4.4.1 Test Result

5G NR n25 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	1882.5	Outer_Full	20	LV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass
				HV	-1.80	-0.0010	>=-2.5 & <=2.5	Pass
			-30	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			-20	NV	-1.50	-0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	-4.30	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-2.30	-0.0012	>=-2.5 & <=2.5	Pass
			10	NV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			30	NV	-1.20	-0.0006	>=-2.5 & <=2.5	Pass
			40	NV	-1.30	-0.0007	>=-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	-3.10	-0.0016	>=-2.5 & <=2.5	Pass
				HV	-4.20	-0.0022	>=-2.5 & <=2.5	Pass
			-30	NV	-3.90	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	-5.60	-0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-3.80	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-4.80	-0.0025	>=-2.5 & <=2.5	Pass
50	NV	-3.60	-0.0019	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	1882.5	Outer_Full	20	LV	-5.70	-0.0030	>=-2.5 & <=2.5	Pass
				HV	-3.20	-0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	-2.10	-0.0011	>=-2.5 & <=2.5	Pass
			-20	NV	-3.70	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-2.80	-0.0015	>=-2.5 & <=2.5	Pass
			0	NV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-1.70	-0.0009	>=-2.5 & <=2.5	Pass
			20	NV	-3.30	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0023	>=-2.5 & <=2.5	Pass
			40	NV	-1.40	-0.0007	>=-2.5 & <=2.5	Pass
50	NV	-4.00	-0.0021	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	1882.5	Outer_Full	20	LV	-2.40	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-2.90	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-4.90	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-3.50	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-2.60	-0.0014	>=-2.5 & <=2.5	Pass
			0	NV	-1.90	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0014	>=-2.5 & <=2.5	Pass
			20	NV	-3.20	-0.0017	>=-2.5 & <=2.5	Pass



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 No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300      005-51215735088      006-51215737011      www.sgs.com.cn  
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300      005-51215735088      006-51215737011      sgs.china@sgs.com