

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 30k_SISO_40MHz_NTNV_EIRP

5G NR n77d SCS=30kHz SISO 40MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant10	Ant2	Sum	Ant10	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3470.01	Edge_1RB_Left	22.69	/	/	23.69	/	/	<=30	Pass
		Edge_1RB_Right	22.28	/	/	23.28	/	/	<=30	Pass
		Outer_Full	22.61	/	/	23.61	/	/	<=30	Pass
		Inner_Full	23.14	/	/	24.14	/	/	<=30	Pass
		Inner_1RB_Left	23.18	/	/	24.18	/	/	<=30	Pass
		Inner_1RB_Right	22.80	/	/	23.80	/	/	<=30	Pass
	3500.01	Edge_1RB_Left	22.45	/	/	23.45	/	/	<=30	Pass
		Edge_1RB_Right	22.31	/	/	23.31	/	/	<=30	Pass
		Outer_Full	22.35	/	/	23.35	/	/	<=30	Pass
		Inner_Full	22.82	/	/	23.82	/	/	<=30	Pass
		Inner_1RB_Left	22.94	/	/	23.94	/	/	<=30	Pass
		Inner_1RB_Right	22.79	/	/	23.79	/	/	<=30	Pass
	3529.98	Edge_1RB_Left	22.31	/	/	23.31	/	/	<=30	Pass
		Edge_1RB_Right	22.27	/	/	23.27	/	/	<=30	Pass
		Outer_Full	22.39	/	/	23.39	/	/	<=30	Pass
Inner_Full		22.88	/	/	23.88	/	/	<=30	Pass	
Inner_1RB_Left		22.76	/	/	23.76	/	/	<=30	Pass	
Inner_1RB_Right		22.82	/	/	23.82	/	/	<=30	Pass	
DFT-s-OFDM QPSK	3470.01	Edge_1RB_Left	22.19	/	/	23.19	/	/	<=30	Pass
		Edge_1RB_Right	21.77	/	/	22.77	/	/	<=30	Pass
		Outer_Full	22.11	/	/	23.11	/	/	<=30	Pass
		Inner_Full	23.13	/	/	24.13	/	/	<=30	Pass
		Inner_1RB_Left	23.19	/	/	24.19	/	/	<=30	Pass
		Inner_1RB_Right	22.74	/	/	23.74	/	/	<=30	Pass
	3500.01	Edge_1RB_Left	21.95	/	/	22.95	/	/	<=30	Pass
		Edge_1RB_Right	21.79	/	/	22.79	/	/	<=30	Pass
		Outer_Full	21.80	/	/	22.80	/	/	<=30	Pass
		Inner_Full	22.77	/	/	23.77	/	/	<=30	Pass
		Inner_1RB_Left	22.93	/	/	23.93	/	/	<=30	Pass
		Inner_1RB_Right	22.77	/	/	23.77	/	/	<=30	Pass
	3529.98	Edge_1RB_Left	21.75	/	/	22.75	/	/	<=30	Pass
		Edge_1RB_Right	21.84	/	/	22.84	/	/	<=30	Pass
		Outer_Full	21.82	/	/	22.82	/	/	<=30	Pass
Inner_Full		22.93	/	/	23.93	/	/	<=30	Pass	
Inner_1RB_Left		22.72	/	/	23.72	/	/	<=30	Pass	
Inner_1RB_Right		22.78	/	/	23.78	/	/	<=30	Pass	
DFT-s-OFDM 16 QAM	3470.01	Edge_1RB_Left	21.14	/	/	22.14	/	/	<=30	Pass
		Edge_1RB_Right	20.82	/	/	21.82	/	/	<=30	Pass
		Outer_Full	21.11	/	/	22.11	/	/	<=30	Pass
		Inner_Full	22.15	/	/	23.15	/	/	<=30	Pass
		Inner_1RB_Left	22.20	/	/	23.20	/	/	<=30	Pass
		Inner_1RB_Right	21.81	/	/	22.81	/	/	<=30	Pass
	3500.01	Edge_1RB_Left	20.98	/	/	21.98	/	/	<=30	Pass
		Edge_1RB_Right	20.80	/	/	21.80	/	/	<=30	Pass
		Outer_Full	20.84	/	/	21.84	/	/	<=30	Pass
		Inner_Full	21.78	/	/	22.78	/	/	<=30	Pass
		Inner_1RB_Left	21.98	/	/	22.98	/	/	<=30	Pass
		Inner_1RB_Right	21.74	/	/	22.74	/	/	<=30	Pass
	3529.98	Edge_1RB_Left	20.80	/	/	21.80	/	/	<=30	Pass

		Edge_1RB_Right	20.77	/	/	21.77	/	/	<=30	Pass
		Outer_Full	20.87	/	/	21.87	/	/	<=30	Pass
		Inner_Full	21.88	/	/	22.88	/	/	<=30	Pass
		Inner_1RB_Left	21.65	/	/	22.65	/	/	<=30	Pass
		Inner_1RB_Right	21.75	/	/	22.75	/	/	<=30	Pass
DFT-s-OFDM 64 QAM	3470.01	Edge_1RB_Left	20.72	/	/	21.72	/	/	<=30	Pass
		Edge_1RB_Right	20.30	/	/	21.30	/	/	<=30	Pass
		Outer_Full	20.56	/	/	21.56	/	/	<=30	Pass
		Inner_Full	20.62	/	/	21.62	/	/	<=30	Pass
		Inner_1RB_Left	20.71	/	/	21.71	/	/	<=30	Pass
	Inner_1RB_Right	20.33	/	/	21.33	/	/	<=30	Pass	
	3500.01	Edge_1RB_Left	20.62	/	/	21.62	/	/	<=30	Pass
		Edge_1RB_Right	20.38	/	/	21.38	/	/	<=30	Pass
		Outer_Full	20.43	/	/	21.43	/	/	<=30	Pass
		Inner_Full	20.33	/	/	21.33	/	/	<=30	Pass
		Inner_1RB_Left	20.55	/	/	21.55	/	/	<=30	Pass
	Inner_1RB_Right	20.38	/	/	21.38	/	/	<=30	Pass	
	3529.98	Edge_1RB_Left	20.13	/	/	21.13	/	/	<=30	Pass
		Edge_1RB_Right	20.40	/	/	21.40	/	/	<=30	Pass
		Outer_Full	20.44	/	/	21.44	/	/	<=30	Pass
Inner_Full		20.42	/	/	21.42	/	/	<=30	Pass	
Inner_1RB_Left		20.14	/	/	21.14	/	/	<=30	Pass	
Inner_1RB_Right	20.18	/	/	21.18	/	/	<=30	Pass		
DFT-s-OFDM 256 QAM	3470.01	Edge_1RB_Left	18.52	/	/	19.52	/	/	<=30	Pass
		Edge_1RB_Right	18.13	/	/	19.13	/	/	<=30	Pass
		Outer_Full	18.61	/	/	19.61	/	/	<=30	Pass
		Inner_Full	18.61	/	/	19.61	/	/	<=30	Pass
		Inner_1RB_Left	18.46	/	/	19.46	/	/	<=30	Pass
	Inner_1RB_Right	18.18	/	/	19.18	/	/	<=30	Pass	
	3500.01	Edge_1RB_Left	18.34	/	/	19.34	/	/	<=30	Pass
		Edge_1RB_Right	18.14	/	/	19.14	/	/	<=30	Pass
		Outer_Full	18.37	/	/	19.37	/	/	<=30	Pass
		Inner_Full	18.28	/	/	19.28	/	/	<=30	Pass
		Inner_1RB_Left	18.31	/	/	19.31	/	/	<=30	Pass
	Inner_1RB_Right	18.09	/	/	19.09	/	/	<=30	Pass	
	3529.98	Edge_1RB_Left	18.08	/	/	19.08	/	/	<=30	Pass
		Edge_1RB_Right	18.12	/	/	19.12	/	/	<=30	Pass
		Outer_Full	18.35	/	/	19.35	/	/	<=30	Pass
Inner_Full		18.37	/	/	19.37	/	/	<=30	Pass	
Inner_1RB_Left		18.05	/	/	19.05	/	/	<=30	Pass	
Inner_1RB_Right	18.12	/	/	19.12	/	/	<=30	Pass		
CP-OFDM QPSK	3470.01	Edge_1RB_Left	20.04	/	/	21.04	/	/	<=30	Pass
		Edge_1RB_Right	19.59	/	/	20.59	/	/	<=30	Pass
		Outer_Full	20.07	/	/	21.07	/	/	<=30	Pass
		Inner_Full	21.60	/	/	22.60	/	/	<=30	Pass
		Inner_1RB_Left	21.58	/	/	22.58	/	/	<=30	Pass
	Inner_1RB_Right	21.30	/	/	22.30	/	/	<=30	Pass	
	3500.01	Edge_1RB_Left	19.90	/	/	20.90	/	/	<=30	Pass
		Edge_1RB_Right	19.72	/	/	20.72	/	/	<=30	Pass
		Outer_Full	19.80	/	/	20.80	/	/	<=30	Pass
		Inner_Full	21.29	/	/	22.29	/	/	<=30	Pass
		Inner_1RB_Left	21.38	/	/	22.38	/	/	<=30	Pass
	Inner_1RB_Right	21.31	/	/	22.31	/	/	<=30	Pass	
	3529.98	Edge_1RB_Left	19.68	/	/	20.68	/	/	<=30	Pass
		Edge_1RB_Right	19.68	/	/	20.68	/	/	<=30	Pass
		Outer_Full	19.88	/	/	20.88	/	/	<=30	Pass
Inner_Full		21.39	/	/	22.39	/	/	<=30	Pass	
Inner_1RB_Left		21.24	/	/	22.24	/	/	<=30	Pass	
Inner_1RB_Right	21.27	/	/	22.27	/	/	<=30	Pass		

CP-OFDM 16 QAM	3470.01	Edge_1RB_Left	20.27	/	/	21.27	/	/	<=30	Pass
		Edge_1RB_Right	19.83	/	/	20.83	/	/	<=30	Pass
		Outer_Full	20.12	/	/	21.12	/	/	<=30	Pass
		Inner_Full	21.11	/	/	22.11	/	/	<=30	Pass
		Inner_1RB_Left	21.21	/	/	22.21	/	/	<=30	Pass
		Inner_1RB_Right	20.80	/	/	21.80	/	/	<=30	Pass
	3500.01	Edge_1RB_Left	20.04	/	/	21.04	/	/	<=30	Pass
		Edge_1RB_Right	19.91	/	/	20.91	/	/	<=30	Pass
		Outer_Full	19.83	/	/	20.83	/	/	<=30	Pass
		Inner_Full	20.76	/	/	21.76	/	/	<=30	Pass
		Inner_1RB_Left	20.96	/	/	21.96	/	/	<=30	Pass
		Inner_1RB_Right	20.78	/	/	21.78	/	/	<=30	Pass
	3529.98	Edge_1RB_Left	19.87	/	/	20.87	/	/	<=30	Pass
		Edge_1RB_Right	19.91	/	/	20.91	/	/	<=30	Pass
		Outer_Full	19.90	/	/	20.90	/	/	<=30	Pass
Inner_Full		20.89	/	/	21.89	/	/	<=30	Pass	
Inner_1RB_Left		20.74	/	/	21.74	/	/	<=30	Pass	
Inner_1RB_Right		20.83	/	/	21.83	/	/	<=30	Pass	
CP-OFDM 64 QAM	3470.01	Edge_1RB_Left	19.69	/	/	20.69	/	/	<=30	Pass
		Edge_1RB_Right	19.32	/	/	20.32	/	/	<=30	Pass
		Outer_Full	19.58	/	/	20.58	/	/	<=30	Pass
		Inner_Full	19.65	/	/	20.65	/	/	<=30	Pass
		Inner_1RB_Left	19.76	/	/	20.76	/	/	<=30	Pass
		Inner_1RB_Right	19.37	/	/	20.37	/	/	<=30	Pass
	3500.01	Edge_1RB_Left	19.45	/	/	20.45	/	/	<=30	Pass
		Edge_1RB_Right	19.28	/	/	20.28	/	/	<=30	Pass
		Outer_Full	19.33	/	/	20.33	/	/	<=30	Pass
		Inner_Full	19.35	/	/	20.35	/	/	<=30	Pass
		Inner_1RB_Left	19.55	/	/	20.55	/	/	<=30	Pass
		Inner_1RB_Right	19.27	/	/	20.27	/	/	<=30	Pass
	3529.98	Edge_1RB_Left	19.29	/	/	20.29	/	/	<=30	Pass
		Edge_1RB_Right	19.30	/	/	20.30	/	/	<=30	Pass
		Outer_Full	19.37	/	/	20.37	/	/	<=30	Pass
Inner_Full		19.38	/	/	20.38	/	/	<=30	Pass	
Inner_1RB_Left		19.34	/	/	20.34	/	/	<=30	Pass	
Inner_1RB_Right		19.33	/	/	20.33	/	/	<=30	Pass	
CP-OFDM 256 QAM	3470.01	Edge_1RB_Left	16.54	/	/	17.54	/	/	<=30	Pass
		Edge_1RB_Right	16.19	/	/	17.19	/	/	<=30	Pass
		Outer_Full	16.58	/	/	17.58	/	/	<=30	Pass
		Inner_Full	16.66	/	/	17.66	/	/	<=30	Pass
		Inner_1RB_Left	16.55	/	/	17.55	/	/	<=30	Pass
		Inner_1RB_Right	16.20	/	/	17.20	/	/	<=30	Pass
	3500.01	Edge_1RB_Left	16.41	/	/	17.41	/	/	<=30	Pass
		Edge_1RB_Right	16.16	/	/	17.16	/	/	<=30	Pass
		Outer_Full	16.38	/	/	17.38	/	/	<=30	Pass
		Inner_Full	16.32	/	/	17.32	/	/	<=30	Pass
		Inner_1RB_Left	16.38	/	/	17.38	/	/	<=30	Pass
		Inner_1RB_Right	16.18	/	/	17.18	/	/	<=30	Pass
	3529.98	Edge_1RB_Left	16.13	/	/	17.13	/	/	<=30	Pass
		Edge_1RB_Right	16.12	/	/	17.12	/	/	<=30	Pass
		Outer_Full	16.35	/	/	17.35	/	/	<=30	Pass
Inner_Full		16.39	/	/	17.39	/	/	<=30	Pass	
Inner_1RB_Left		16.18	/	/	17.18	/	/	<=30	Pass	
Inner_1RB_Right		16.17	/	/	17.17	/	/	<=30	Pass	
Note1: Antenna Gain: Ant10: 1.00dBi;										
Note2: EIRP=Conducted Power+Antenna Gain										

1.1.2 30k_SISO_100MHz_NTNV_EIRP

5G NR n77d SCS=30kHz SISO 100MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant10	Ant2	Sum	Ant10	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Edge_1RB_Left	22.82	/	/	23.82	/	/	<=30	Pass
		Edge_1RB_Right	22.29	/	/	23.29	/	/	<=30	Pass
		Outer_Full	22.45	/	/	23.45	/	/	<=30	Pass
		Inner_Full	22.89	/	/	23.89	/	/	<=30	Pass
		Inner_1RB_Left	23.30	/	/	24.30	/	/	<=30	Pass
DFT-s-OFDM QPSK	3500.01	Inner_1RB_Right	22.71	/	/	23.71	/	/	<=30	Pass
		Edge_1RB_Left	22.31	/	/	23.31	/	/	<=30	Pass
		Edge_1RB_Right	21.77	/	/	22.77	/	/	<=30	Pass
		Outer_Full	21.97	/	/	22.97	/	/	<=30	Pass
		Inner_Full	22.88	/	/	23.88	/	/	<=30	Pass
DFT-s-OFDM 16 QAM	3500.01	Inner_1RB_Left	23.29	/	/	24.29	/	/	<=30	Pass
		Inner_1RB_Right	22.81	/	/	23.81	/	/	<=30	Pass
		Edge_1RB_Left	21.34	/	/	22.34	/	/	<=30	Pass
		Edge_1RB_Right	20.72	/	/	21.72	/	/	<=30	Pass
		Outer_Full	20.95	/	/	21.95	/	/	<=30	Pass
DFT-s-OFDM 64 QAM	3500.01	Inner_Full	21.92	/	/	22.92	/	/	<=30	Pass
		Inner_1RB_Left	22.33	/	/	23.33	/	/	<=30	Pass
		Inner_1RB_Right	21.81	/	/	22.81	/	/	<=30	Pass
		Edge_1RB_Left	20.86	/	/	21.86	/	/	<=30	Pass
		Edge_1RB_Right	20.28	/	/	21.28	/	/	<=30	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20.55	/	/	21.55	/	/	<=30	Pass
		Inner_Full	20.38	/	/	21.38	/	/	<=30	Pass
		Inner_1RB_Left	20.85	/	/	21.85	/	/	<=30	Pass
		Inner_1RB_Right	20.32	/	/	21.32	/	/	<=30	Pass
		Edge_1RB_Left	18.60	/	/	19.60	/	/	<=30	Pass
CP-OFDM QPSK	3500.01	Edge_1RB_Right	18.00	/	/	19.00	/	/	<=30	Pass
		Outer_Full	18.42	/	/	19.42	/	/	<=30	Pass
		Inner_Full	18.39	/	/	19.39	/	/	<=30	Pass
		Inner_1RB_Left	18.60	/	/	19.60	/	/	<=30	Pass
		Inner_1RB_Right	18.02	/	/	19.02	/	/	<=30	Pass
CP-OFDM 16 QAM	3500.01	Edge_1RB_Left	20.18	/	/	21.18	/	/	<=30	Pass
		Edge_1RB_Right	19.59	/	/	20.59	/	/	<=30	Pass
		Outer_Full	19.92	/	/	20.92	/	/	<=30	Pass
		Inner_Full	21.30	/	/	22.30	/	/	<=30	Pass
		Inner_1RB_Left	21.72	/	/	22.72	/	/	<=30	Pass
CP-OFDM 64 QAM	3500.01	Inner_1RB_Right	21.38	/	/	22.38	/	/	<=30	Pass
		Edge_1RB_Left	20.28	/	/	21.28	/	/	<=30	Pass
		Edge_1RB_Right	19.72	/	/	20.72	/	/	<=30	Pass
		Outer_Full	19.88	/	/	20.88	/	/	<=30	Pass
		Inner_Full	20.84	/	/	21.84	/	/	<=30	Pass
CP-OFDM 256 QAM	3500.01	Inner_1RB_Left	21.40	/	/	22.40	/	/	<=30	Pass
		Inner_1RB_Right	20.86	/	/	21.86	/	/	<=30	Pass
		Edge_1RB_Left	19.81	/	/	20.81	/	/	<=30	Pass
		Edge_1RB_Right	19.19	/	/	20.19	/	/	<=30	Pass
		Outer_Full	19.43	/	/	20.43	/	/	<=30	Pass
CP-OFDM 256 QAM	3500.01	Inner_Full	19.33	/	/	20.33	/	/	<=30	Pass
		Inner_1RB_Left	19.84	/	/	20.84	/	/	<=30	Pass
		Inner_1RB_Right	19.17	/	/	20.17	/	/	<=30	Pass
		Edge_1RB_Left	16.68	/	/	17.68	/	/	<=30	Pass
		Edge_1RB_Right	15.99	/	/	16.99	/	/	<=30	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	16.39	/	/	17.39	/	/	<=30	Pass
		Inner_Full	16.31	/	/	17.31	/	/	<=30	Pass
		Inner_1RB_Left	16.73	/	/	17.73	/	/	<=30	Pass
		Inner_1RB_Right	16.10	/	/	17.10	/	/	<=30	Pass
		Note1: Antenna Gain: Ant10: 1.00dBi; Note2: EIRP=Conducted Power+Antenna Gain								

2. Field Strength of Spurious Radiation

For Sample 1

Test Band = SA Band77_ TM1

Test Channel = Mid 3450-3550

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7763.275	40.45	-42.72	36.77	-60.76	-13.00	47.76	Horizontal
2	9278.975	37.21	-40.04	37.06	-61.04	-13.00	48.04	Horizontal
3	10313.4	35.79	-38.94	38.53	-59.88	-13.00	46.88	Horizontal
4	11650.85	34.59	-36.53	38.93	-58.27	-13.00	45.27	Horizontal
5	13009.575	33.74	-37.23	39.41	-59.34	-13.00	46.34	Horizontal
6	15107.175	33.40	-34.43	41.37	-54.91	-13.00	41.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7407.35	40.44	-42.82	36.14	-61.50	-13.00	48.50	Vertical
2	8637.85	38.76	-41.06	36.72	-60.84	-13.00	47.84	Vertical
3	9415.825	37.38	-39.93	37.33	-60.47	-13.00	47.47	Vertical
4	10662.425	35.33	-37.69	38.57	-59.05	-13.00	46.05	Vertical
5	11671.55	34.74	-36.34	38.94	-57.93	-13.00	44.93	Vertical
6	13179.2	33.36	-36.58	39.65	-58.83	-13.00	45.83	Vertical

Test Band = NSA_41A_N77A_TM1
Test Channel = Mid 3450-3550

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7944.4	40.03	-42.47	37.02	-60.68	-13.00	47.68	Horizontal
2	9136.375	37.81	-40.24	36.77	-60.92	-13.00	47.92	Horizontal
3	9887.325	36.32	-39.18	38.27	-59.85	-13.00	46.85	Horizontal
4	10980.975	34.34	-37.63	38.60	-59.95	-13.00	46.95	Horizontal
5	12889.4	32.82	-36.84	39.37	-59.92	-13.00	46.92	Horizontal
6	14217.075	32.86	-35.40	40.97	-56.83	-13.00	43.83	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7642.525	38.78	-42.83	36.60	-62.71	-13.00	49.71	Vertical
2	8864.4	37.53	-40.99	36.58	-62.14	-13.00	49.14	Vertical
3	10043.725	35.28	-39.08	38.50	-60.56	-13.00	47.56	Vertical
4	11031	33.71	-37.64	38.62	-60.57	-13.00	47.57	Vertical
5	13447.15	33.39	-36.34	40.03	-58.19	-13.00	45.19	Vertical
6	14205	32.65	-35.34	40.96	-56.98	-13.00	43.98	Vertical