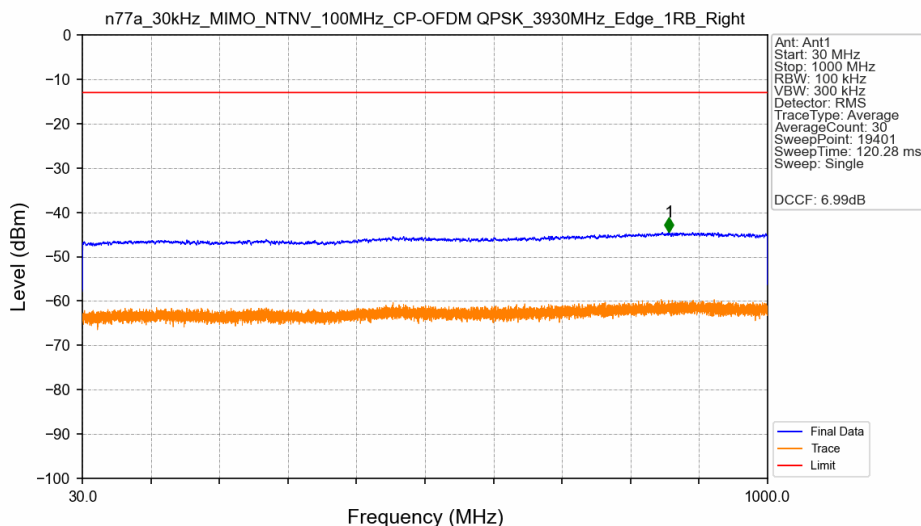
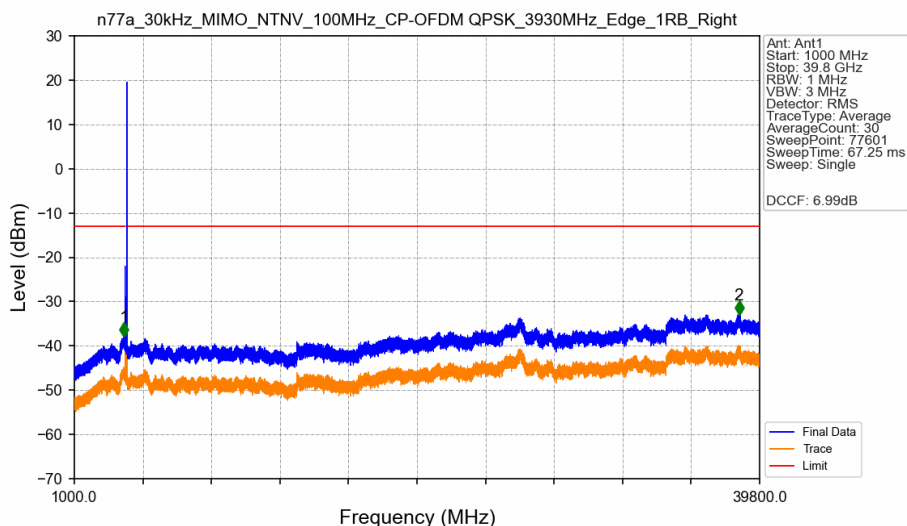


n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	860.250	-44.42	-13	Pass

n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3875	1	/	1	3813.000	-37.87	-13	Pass
3875	3985	1	/	/	/	/	/	/
3985	39800	1	/	2	38634.000	-32.90	-13	Pass

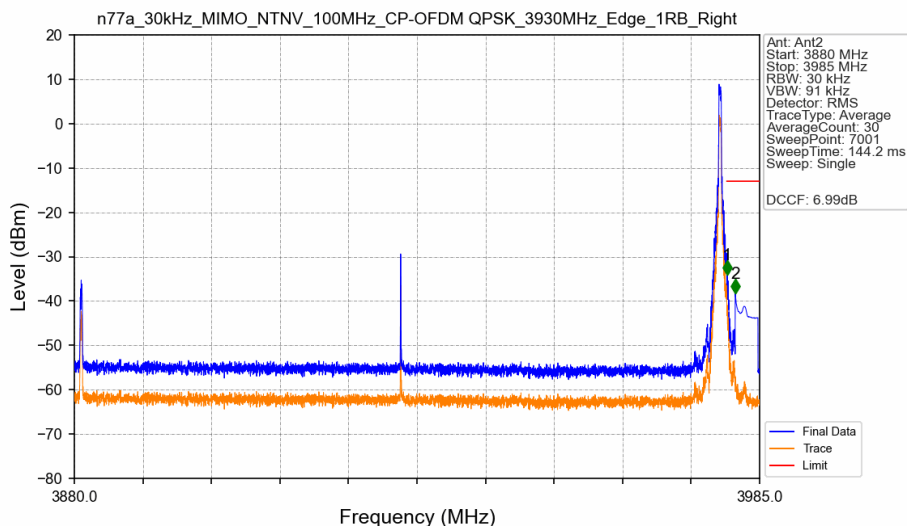


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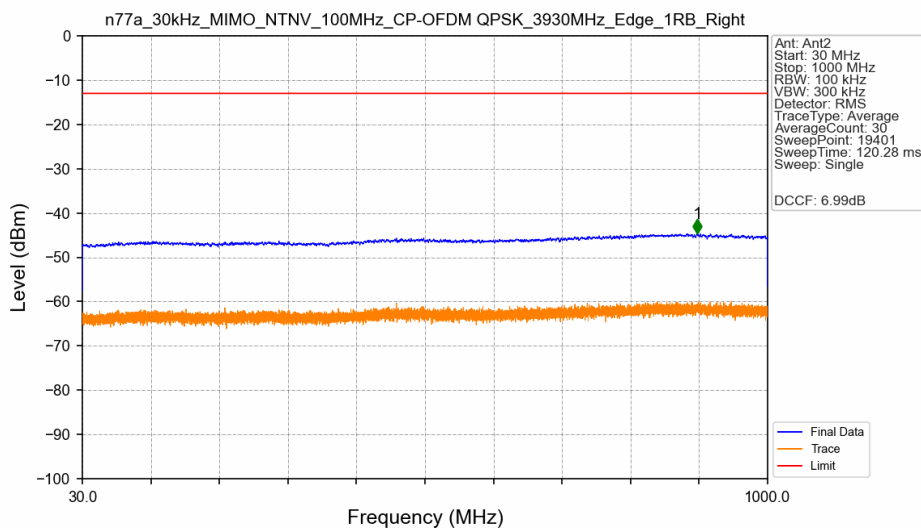
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n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3880	3980	0.03	/	/	/	/	/	/
3980	3981	0.03	/	1	3980.035	-33.96	-13	Pass
3981	3985	0.5	CHP	2	3981.265	-38.26	-13	Pass

n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	900.350	-44.59	-13	Pass

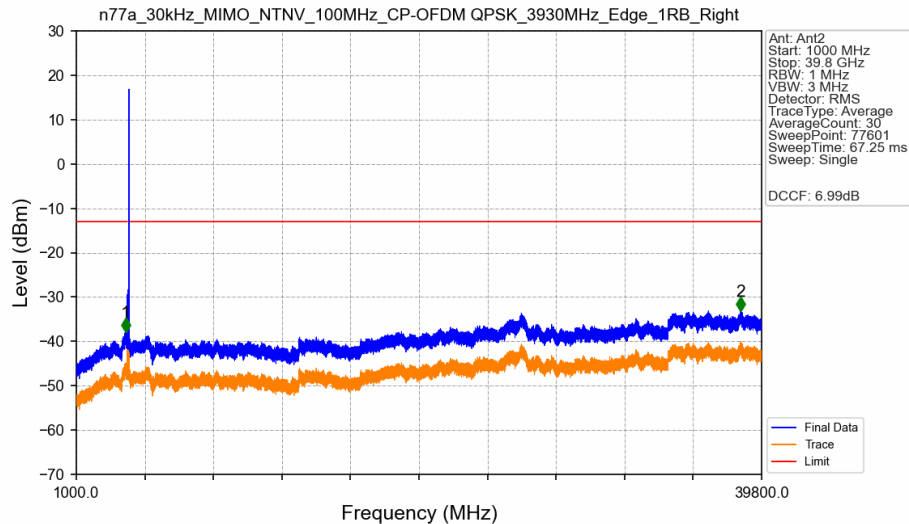


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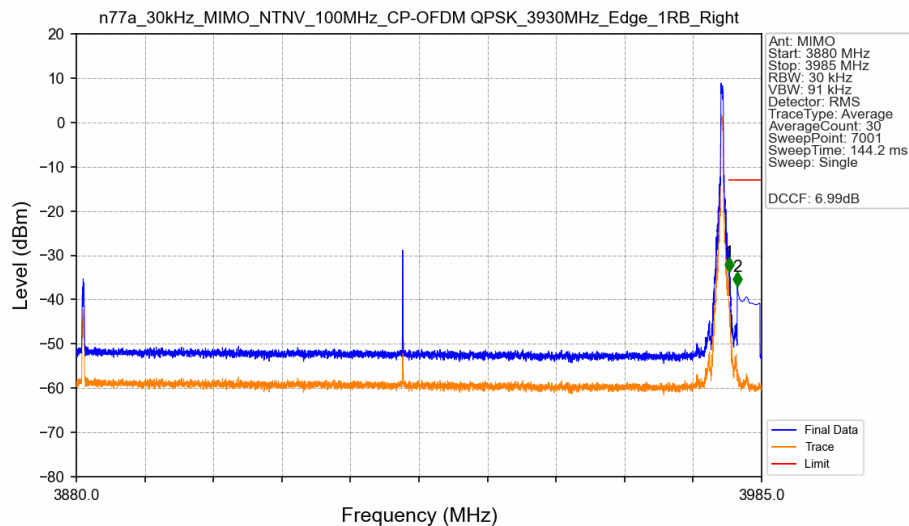
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n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3875	1	/	1	3792.000	-37.89	-13	Pass
3875	3985	1	/	/	/	/	/	/
3985	39800	1	/	2	38601.000	-33.07	-13	Pass

n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3880	3980	0.03	/	/	/	/	/	/
3980	3981	0.03	/	1	3980.035	-33.61	-13	Pass
3981	3985	0.5	CHP	2	3981.265	-36.97	-13	Pass

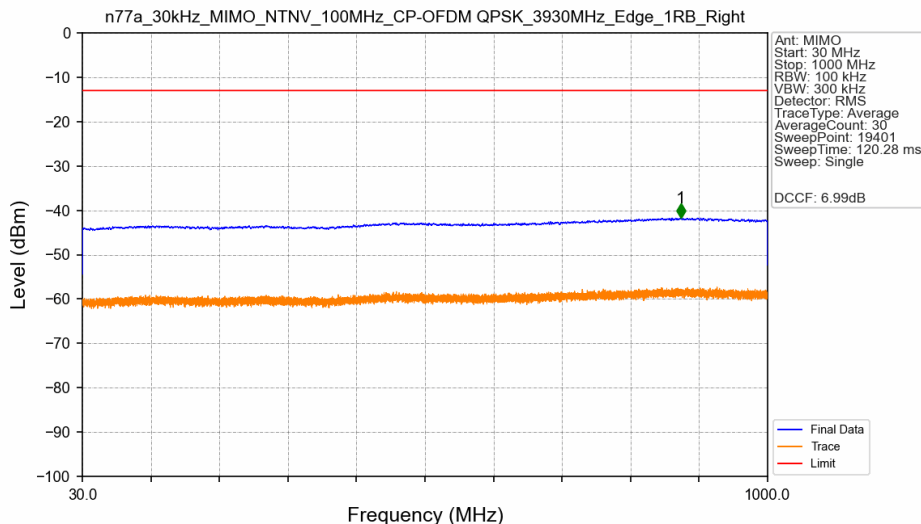


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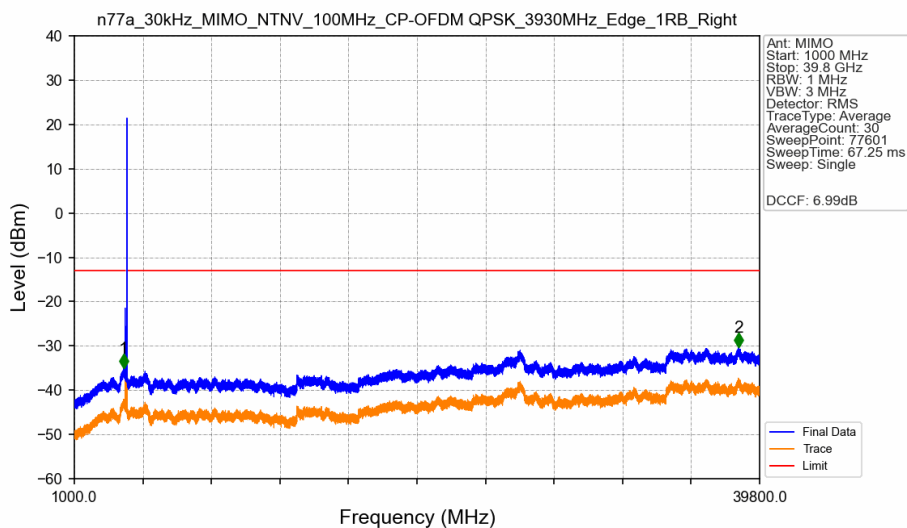
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n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	876.850	-41.71	-13	Pass

n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3875	1	/	1	3792.000	-35.03	-13	Pass
3875	3985	1	/	/	/	/	/	/
3985	39800	1	/	2	38601.000	-30.26	-13	Pass

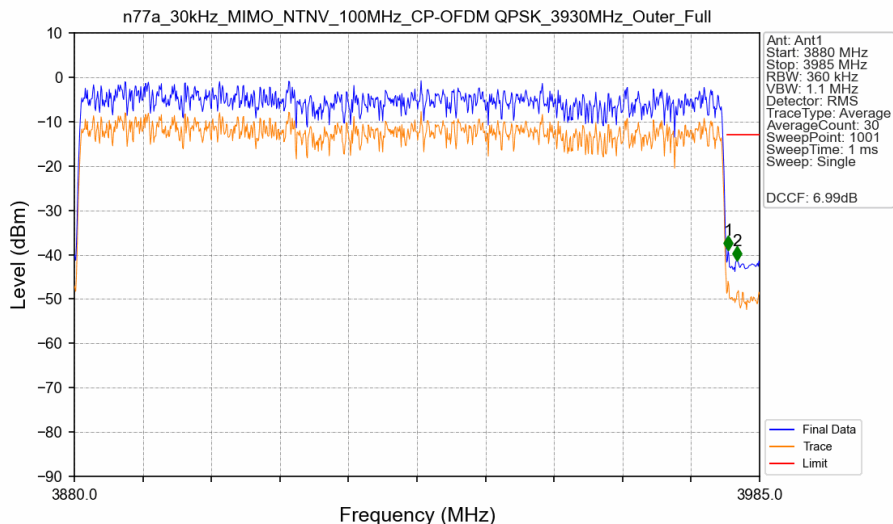


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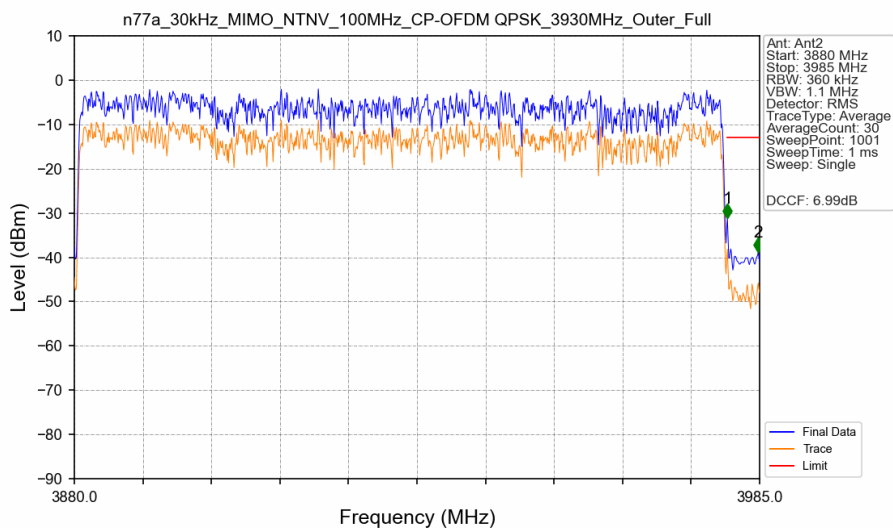
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n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Outer_Full



n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Outer_Full

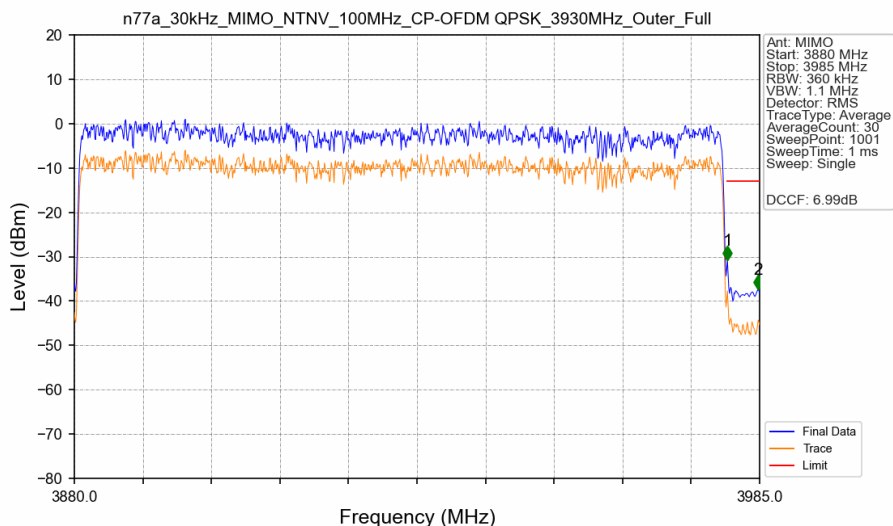


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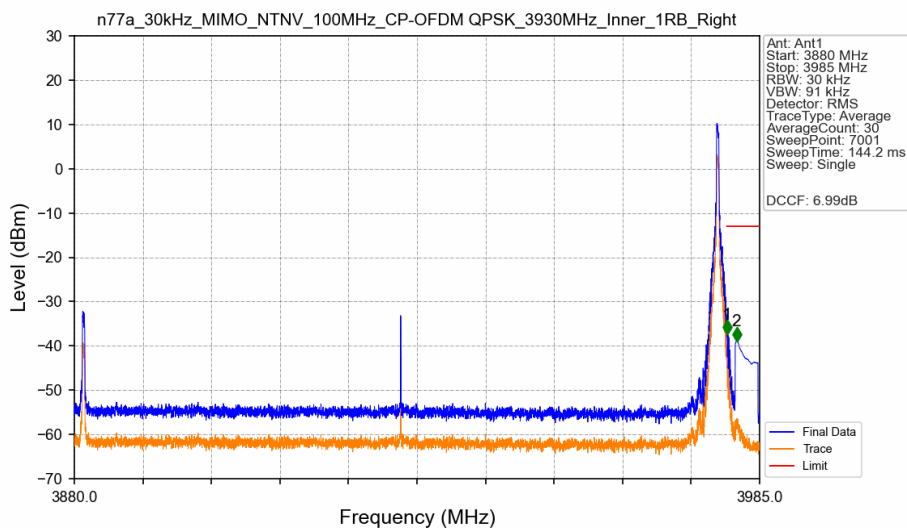
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n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3880	3980	0.36	/	/	/	/	/	/
3980	3981	0.36	/	1	3980.065	-30.76	-13	Pass
3981	3985	0.5	CHP	2	3984.790	-37.30	-13	Pass

n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3880	3980	0.03	/	/	/	/	/	/
3980	3981	0.03	/	1	3980.020	-37.34	-13	Pass
3981	3985	0.5	CHP	2	3981.475	-38.89	-13	Pass

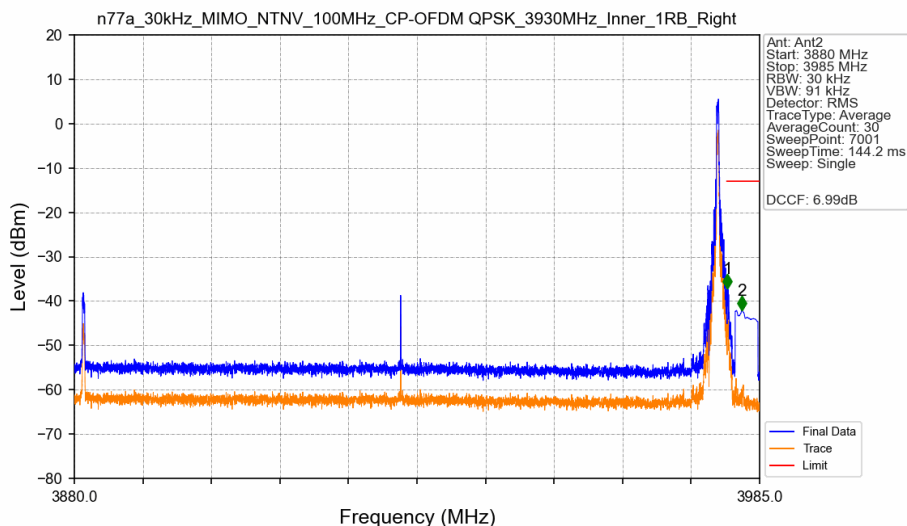


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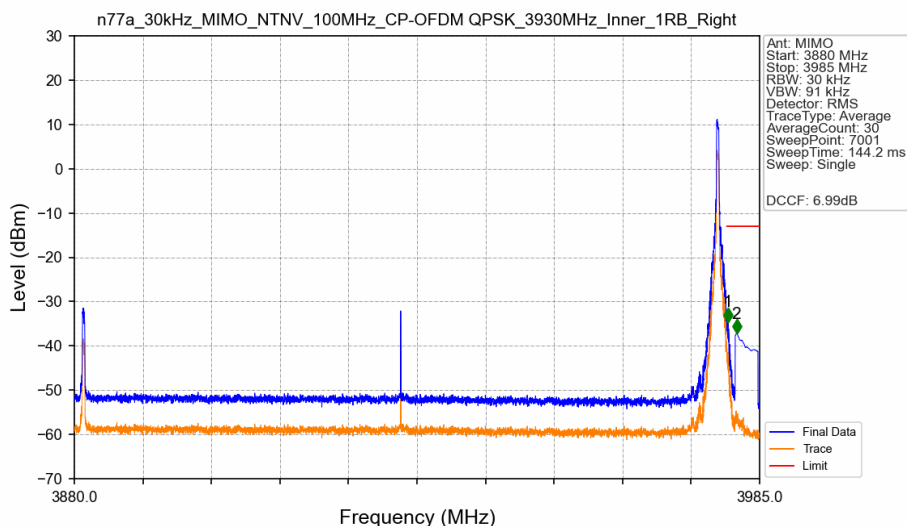
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n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3880	3980	0.03	/	/	/	/	/	/
3980	3981	0.03	/	1	3980.065	-37.07	-13	Pass
3981	3985	0.5	CHP	2	3982.270	-42.02	-13	Pass

n77a_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3930MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3880	3980	0.03	/	/	/	/	/	/
3980	3981	0.03	/	1	3980.155	-34.52	-13	Pass
3981	3985	0.5	CHP	2	3981.475	-37.21	-13	Pass



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6. Field Strength of Spurious Radiation

NR Band 77-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7420.02	-50.25	-13	-37.25	-57.19	4.19	11.13	Horizontal	Pass
11130.03	-45.58	-13	-32.58	-53.78	5.07	13.27	Horizontal	Pass
14840.04	-41.21	-13	-28.21	-50.44	5.19	14.42	Horizontal	Pass
7420.02	-49.85	-13	-36.85	-56.79	4.19	11.13	Vertical	Pass
11130.03	-46.28	-13	-33.28	-54.48	5.07	13.27	Vertical	Pass
14840.04	-41.09	-13	-28.09	-50.32	5.19	14.42	Vertical	Pass
NR Band 77-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7680	-49.23	-13	-36.23	-56.75	4.22	11.74	Horizontal	Pass
11520	-44.82	-13	-31.82	-53	5.06	13.24	Horizontal	Pass
15360	-40.38	-13	-27.38	-49.34	5.56	14.52	Horizontal	Pass
7680	-48.76	-13	-30.46	-50.98	4.22	11.74	Vertical	Pass
11520	-43.46	-13	-27.54	-48.72	5.06	13.24	Vertical	Pass
15360	-40.54	-13	-27.54	-49.5	5.56	14.52	Vertical	Pass
NR Band 77-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7939.98	-50.47	-13	-37.47	-57.99	4.22	11.74	Horizontal	Pass
11909.97	-46.25	-13	-33.25	-54.43	5.06	13.24	Horizontal	Pass
15879.96	-40.69	-13	-27.69	-49.33	5.61	14.25	Horizontal	Pass
7939.98	-49.87	-13	-36.87	-57.39	4.22	11.74	Vertical	Pass
11909.97	-45.32	-13	-32.32	-53.5	5.06	13.24	Vertical	Pass
15879.96	-41.14	-13	-28.14	-50.05	5.61	14.52	Vertical	Pass



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3450MHz-3550MHz

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 30k_MIMO_10MHz_NTNV_EIRP

5G NR n77d SCS=30kHz MIMO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3455.01	Edge_1RB_Left	18.45	18.66	21.57	24.65	24.86	27.77	<=30	Pass
		Edge_1RB_Right	18.41	18.22	21.33	24.61	24.42	27.53	<=30	Pass
		Outer_Full	18.76	18.93	21.86	24.96	25.13	28.06	<=30	Pass
		Inner_Full	18.88	18.86	21.88	25.08	25.06	28.08	<=30	Pass
		Inner_1RB_Left	18.75	18.9	21.84	24.95	25.10	28.04	<=30	Pass
		Inner_1RB_Right	18.96	18.91	21.95	25.16	25.11	28.15	<=30	Pass
	3500.01	Edge_1RB_Left	18.34	18.69	21.53	24.54	24.89	27.73	<=30	Pass
		Edge_1RB_Right	18.44	18.64	21.55	24.64	24.84	27.75	<=30	Pass
		Outer_Full	18.82	19.31	22.08	25.02	25.51	28.28	<=30	Pass
		Inner_Full	18.85	19.18	22.03	25.05	25.38	28.23	<=30	Pass
		Inner_1RB_Left	18.85	19.17	22.02	25.05	25.37	28.22	<=30	Pass
		Inner_1RB_Right	18.94	19.15	22.06	25.14	25.35	28.26	<=30	Pass
	3544.98	Edge_1RB_Left	18.62	18.98	21.81	24.82	25.18	28.01	<=30	Pass
		Edge_1RB_Right	18.84	19.11	21.99	25.04	25.31	28.19	<=30	Pass
		Outer_Full	19.14	19.68	22.43	25.34	25.88	28.63	<=30	Pass
		Inner_Full	19.12	19.63	22.39	25.32	25.83	28.59	<=30	Pass
		Inner_1RB_Left	18.91	19.6	22.28	25.11	25.80	28.48	<=30	Pass
		Inner_1RB_Right	19.33	19.59	22.47	25.53	25.79	28.67	<=30	Pass
CP-OFDM 16 QAM	3455.01	Edge_1RB_Left	18.25	18.58	21.43	24.45	24.78	27.63	<=30	Pass
		Edge_1RB_Right	18.27	18.37	21.33	24.47	24.57	27.53	<=30	Pass
		Outer_Full	18.93	18.96	21.96	25.13	25.16	28.16	<=30	Pass
		Inner_Full	18.86	18.93	21.91	25.06	25.13	28.11	<=30	Pass
		Inner_1RB_Left	18.8	19.01	21.92	25.00	25.21	28.12	<=30	Pass
		Inner_1RB_Right	18.99	18.95	21.98	25.19	25.15	28.18	<=30	Pass
	3500.01	Edge_1RB_Left	18.34	18.78	21.58	24.54	24.98	27.78	<=30	Pass
		Edge_1RB_Right	18.53	18.6	21.58	24.73	24.80	27.78	<=30	Pass



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		Outer_Full	18.88	19.2	22.05	25.08	25.40	28.25	<=30	Pass
		Inner_Full	18.89	19.24	22.08	25.09	25.44	28.28	<=30	Pass
		Inner_1RB_Left	18.94	19.28	22.12	25.14	25.48	28.32	<=30	Pass
		Inner_1RB_Right	18.78	19.4	22.11	24.98	25.60	28.31	<=30	Pass
	3544.98	Edge_1RB_Left	18.5	19.18	21.86	24.70	25.38	28.06	<=30	Pass
		Edge_1RB_Right	18.84	19.29	22.08	25.04	25.49	28.28	<=30	Pass
		Outer_Full	19.12	19.57	22.36	25.32	25.77	28.56	<=30	Pass
		Inner_Full	19.08	19.54	22.33	25.28	25.74	28.53	<=30	Pass
		Inner_1RB_Left	18.88	19.52	22.22	25.08	25.72	28.42	<=30	Pass
		Inner_1RB_Right	19.51	19.84	22.69	25.71	26.04	28.89	<=30	Pass
CP-OFDM 64 QAM	3455.01	Edge_1RB_Left	18.17	18.43	21.31	24.37	24.63	27.51	<=30	Pass
		Edge_1RB_Right	18.39	18.4	21.41	24.59	24.60	27.61	<=30	Pass
		Outer_Full	18.36	18.45	21.42	24.56	24.65	27.62	<=30	Pass
		Inner_Full	18.35	18.34	21.36	24.55	24.54	27.56	<=30	Pass
		Inner_1RB_Left	18.14	18.52	21.34	24.34	24.72	27.54	<=30	Pass
		Inner_1RB_Right	18.44	18.47	21.47	24.64	24.67	27.67	<=30	Pass
	3500.01	Edge_1RB_Left	18.34	18.76	21.57	24.54	24.96	27.77	<=30	Pass
		Edge_1RB_Right	18.46	18.61	21.55	24.66	24.81	27.75	<=30	Pass
		Outer_Full	18.42	18.7	21.57	24.62	24.90	27.77	<=30	Pass
		Inner_Full	18.33	18.67	21.51	24.53	24.87	27.71	<=30	Pass
		Inner_1RB_Left	18.37	18.69	21.54	24.57	24.89	27.74	<=30	Pass
		Inner_1RB_Right	18.26	18.8	21.55	24.46	25.00	27.75	<=30	Pass
	3544.98	Edge_1RB_Left	18.44	19.1	21.79	24.64	25.30	27.99	<=30	Pass
		Edge_1RB_Right	18.7	19.04	21.88	24.90	25.24	28.08	<=30	Pass
		Outer_Full	18.64	19.12	21.90	24.84	25.32	28.10	<=30	Pass
		Inner_Full	18.64	19.12	21.90	24.84	25.32	28.10	<=30	Pass
		Inner_1RB_Left	18.62	19.19	21.92	24.82	25.39	28.12	<=30	Pass
		Inner_1RB_Right	18.96	19.07	22.03	25.16	25.27	28.23	<=30	Pass
CP-OFDM 256 QAM	3455.01	Edge_1RB_Left	15.45	15.49	18.48	21.65	21.69	24.68	<=30	Pass
		Edge_1RB_Right	15.32	15.41	18.38	21.52	21.61	24.58	<=30	Pass
		Outer_Full	15.37	15.43	18.41	21.57	21.63	24.61	<=30	Pass
		Inner_Full	15.33	15.44	18.40	21.53	21.64	24.60	<=30	Pass
		Inner_1RB_Left	15.1	15.39	18.26	21.30	21.59	24.46	<=30	Pass
		Inner_1RB_Right	15.39	15.43	18.42	21.59	21.63	24.62	<=30	Pass
	3500.01	Edge_1RB_Left	15.04	15.79	18.44	21.24	21.99	24.64	<=30	Pass
		Edge_1RB_Right	15.37	15.82	18.61	21.57	22.02	24.81	<=30	Pass
		Outer_Full	15.4	15.78	18.60	21.60	21.98	24.80	<=30	Pass



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		Inner_Full	15.33	15.69	18.52	21.53	21.89	24.72	<=30	Pass
		Inner_1RB_Left	14.9	15.66	18.31	21.10	21.86	24.51	<=30	Pass
		Inner_1RB_Right	15.35	15.62	18.50	21.55	21.82	24.70	<=30	Pass
	3544.98	Edge_1RB_Left	15.45	16.13	18.81	21.65	22.33	25.01	<=30	Pass
		Edge_1RB_Right	15.79	16	18.91	21.99	22.20	25.11	<=30	Pass
		Outer_Full	15.71	16.18	18.96	21.91	22.38	25.16	<=30	Pass
		Inner_Full	15.67	16.02	18.86	21.87	22.22	25.06	<=30	Pass
		Inner_1RB_Left	15.64	16.07	18.87	21.84	22.27	25.07	<=30	Pass
		Inner_1RB_Right	15.65	16.22	18.95	21.85	22.42	25.15	<=30	Pass
Note1: Antenna Gain: Ant1: 6.20dBi; Ant2: 6.20dBi;										
Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2										

1.1.2 30k_MIMO_15MHz_NTNV_EIRP

5G NR n77d SCS=30kHz MIMO 15MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3457.5	Edge_1RB_Left	18.43	18.64	21.55	24.63	24.84	27.75	<=30	Pass
		Edge_1RB_Right	18.78	18.57	21.69	24.98	24.77	27.89	<=30	Pass
		Outer_Full	19.01	19.02	22.03	25.21	25.22	28.23	<=30	Pass
		Inner_Full	18.99	19	22.01	25.19	25.20	28.21	<=30	Pass
		Inner_1RB_Left	18.92	19.13	22.04	25.12	25.33	28.24	<=30	Pass
		Inner_1RB_Right	19.19	18.99	22.10	25.39	25.19	28.30	<=30	Pass
	3500.01	Edge_1RB_Left	18.52	18.85	21.70	24.72	25.05	27.90	<=30	Pass
		Edge_1RB_Right	18.53	18.89	21.72	24.73	25.09	27.92	<=30	Pass
		Outer_Full	18.91	19.28	22.11	25.11	25.48	28.31	<=30	Pass
		Inner_Full	18.86	19.31	22.10	25.06	25.51	28.30	<=30	Pass
		Inner_1RB_Left	19	19.35	22.19	25.20	25.55	28.39	<=30	Pass
		Inner_1RB_Right	19.19	19.33	22.27	25.39	25.53	28.47	<=30	Pass
	3542.49	Edge_1RB_Left	18.48	19.24	21.89	24.68	25.44	28.09	<=30	Pass
		Edge_1RB_Right	18.98	19.25	22.13	25.18	25.45	28.33	<=30	Pass
		Outer_Full	19.1	19.68	22.41	25.30	25.88	28.61	<=30	Pass
		Inner_Full	19.13	19.71	22.44	25.33	25.91	28.64	<=30	Pass
		Inner_1RB_Left	18.9	19.71	22.33	25.10	25.91	28.53	<=30	Pass
		Inner_1RB_Right	19.31	19.63	22.48	25.51	25.83	28.68	<=30	Pass
CP-OFDM 16	3457.5	Edge_1RB_Left	18.38	18.89	21.65	24.58	25.09	27.85	<=30	Pass



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QAM		Edge_1RB_Right	18.89	18.3	21.62	25.09	24.50	27.82	<=30	Pass
		Outer_Full	18.98	19	22.00	25.18	25.20	28.20	<=30	Pass
		Inner_Full	19.13	19.03	22.09	25.33	25.23	28.29	<=30	Pass
		Inner_1RB_Left	18.8	19.22	22.03	25.00	25.42	28.23	<=30	Pass
		Inner_1RB_Right	19.13	19.09	22.12	25.33	25.29	28.32	<=30	Pass
	3500.01	Edge_1RB_Left	18.29	18.95	21.64	24.49	25.15	27.84	<=30	Pass
		Edge_1RB_Right	18.53	18.9	21.73	24.73	25.10	27.93	<=30	Pass
		Outer_Full	18.92	19.29	22.12	25.12	25.49	28.32	<=30	Pass
		Inner_Full	18.9	19.35	22.14	25.10	25.55	28.34	<=30	Pass
		Inner_1RB_Left	18.82	19.48	22.17	25.02	25.68	28.37	<=30	Pass
		Inner_1RB_Right	19.09	19.46	22.29	25.29	25.66	28.49	<=30	Pass
	3542.49	Edge_1RB_Left	18.46	19.29	21.91	24.66	25.49	28.11	<=30	Pass
		Edge_1RB_Right	18.81	19.14	21.99	25.01	25.34	28.19	<=30	Pass
		Outer_Full	19.1	19.69	22.42	25.30	25.89	28.62	<=30	Pass
		Inner_Full	19.07	19.76	22.44	25.27	25.96	28.64	<=30	Pass
		Inner_1RB_Left	19.01	19.56	22.30	25.21	25.76	28.50	<=30	Pass
		Inner_1RB_Right	19.33	19.78	22.57	25.53	25.98	28.77	<=30	Pass
CP-OFDM 64 QAM	3457.5	Edge_1RB_Left	18.65	18.79	21.73	24.85	24.99	27.93	<=30	Pass
		Edge_1RB_Right	18.74	18.41	21.59	24.94	24.61	27.79	<=30	Pass
		Outer_Full	18.54	18.51	21.54	24.74	24.71	27.74	<=30	Pass
		Inner_Full	18.48	18.47	21.49	24.68	24.67	27.69	<=30	Pass
		Inner_1RB_Left	18.47	18.64	21.57	24.67	24.84	27.77	<=30	Pass
		Inner_1RB_Right	18.73	18.37	21.56	24.93	24.57	27.76	<=30	Pass
	3500.01	Edge_1RB_Left	18.41	18.96	21.70	24.61	25.16	27.90	<=30	Pass
		Edge_1RB_Right	18.57	18.91	21.75	24.77	25.11	27.95	<=30	Pass
		Outer_Full	18.39	18.78	21.60	24.59	24.98	27.80	<=30	Pass
		Inner_Full	18.44	18.81	21.64	24.64	25.01	27.84	<=30	Pass
		Inner_1RB_Left	18.53	18.91	21.73	24.73	25.11	27.93	<=30	Pass
		Inner_1RB_Right	18.64	18.93	21.80	24.84	25.13	28.00	<=30	Pass
	3542.49	Edge_1RB_Left	18.61	19.33	22.00	24.81	25.53	28.20	<=30	Pass
		Edge_1RB_Right	18.8	19.25	22.04	25.00	25.45	28.24	<=30	Pass
		Outer_Full	18.62	19.23	21.95	24.82	25.43	28.15	<=30	Pass
		Inner_Full	18.61	19.17	21.91	24.81	25.37	28.11	<=30	Pass
		Inner_1RB_Left	18.35	19.39	21.91	24.55	25.59	28.11	<=30	Pass
		Inner_1RB_Right	18.73	19.31	22.04	24.93	25.51	28.24	<=30	Pass
CP-OFDM 256 QAM	3457.5	Edge_1RB_Left	15.35	15.78	18.58	21.55	21.98	24.78	<=30	Pass
		Edge_1RB_Right	15.76	15.41	18.60	21.96	21.61	24.80	<=30	Pass



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		Outer_Full	15.54	15.59	18.58	21.74	21.79	24.78	<=30	Pass
		Inner_Full	15.59	15.46	18.54	21.79	21.66	24.74	<=30	Pass
		Inner_1RB_Left	15.53	15.62	18.59	21.73	21.82	24.79	<=30	Pass
		Inner_1RB_Right	15.67	15.41	18.55	21.87	21.61	24.75	<=30	Pass
	3500.01	Edge_1RB_Left	15.35	15.9	18.64	21.55	22.10	24.84	<=30	Pass
		Edge_1RB_Right	15.63	15.94	18.80	21.83	22.14	25.00	<=30	Pass
		Outer_Full	15.42	15.86	18.66	21.62	22.06	24.86	<=30	Pass
		Inner_Full	15.33	15.81	18.59	21.53	22.01	24.79	<=30	Pass
		Inner_1RB_Left	15.22	15.98	18.63	21.42	22.18	24.83	<=30	Pass
		Inner_1RB_Right	15.66	15.88	18.78	21.86	22.08	24.98	<=30	Pass
	3542.49	Edge_1RB_Left	15.21	16.33	18.82	21.41	22.53	25.02	<=30	Pass
		Edge_1RB_Right	15.82	16.16	19.00	22.02	22.36	25.20	<=30	Pass
		Outer_Full	15.63	16.24	18.96	21.83	22.44	25.16	<=30	Pass
		Inner_Full	15.65	16.21	18.95	21.85	22.41	25.15	<=30	Pass
		Inner_1RB_Left	15.36	16.29	18.86	21.56	22.49	25.06	<=30	Pass
		Inner_1RB_Right	15.69	16.07	18.89	21.89	22.27	25.09	<=30	Pass
Note1: Antenna Gain: Ant1: 6.20dBi; Ant2: 6.20dBi;										
Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2										

1.1.3 30k_MIMO_20MHz_NTNV_EIRP

5G NR n77d SCS=30kHz MIMO 20MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3460.02	Edge_1RB_Left	18.44	18.7	21.58	24.64	24.90	27.78	<=30	Pass
		Edge_1RB_Right	18.71	18.52	21.63	24.91	24.72	27.83	<=30	Pass
		Outer_Full	19.09	19.1	22.11	25.29	25.30	28.31	<=30	Pass
		Inner_Full	19.13	19.02	22.09	25.33	25.22	28.29	<=30	Pass
		Inner_1RB_Left	18.9	19.29	22.11	25.10	25.49	28.31	<=30	Pass
		Inner_1RB_Right	19.29	19.12	22.22	25.49	25.32	28.42	<=30	Pass
	3500.01	Edge_1RB_Left	18.43	18.93	21.70	24.63	25.13	27.90	<=30	Pass
		Edge_1RB_Right	18.51	18.83	21.68	24.71	25.03	27.88	<=30	Pass
		Outer_Full	19.01	19.23	22.13	25.21	25.43	28.33	<=30	Pass
		Inner_Full	18.92	19.37	22.16	25.12	25.57	28.36	<=30	Pass
		Inner_1RB_Left	18.8	19.36	22.10	25.00	25.56	28.30	<=30	Pass
		Inner_1RB_Right	18.97	19.27	22.13	25.17	25.47	28.33	<=30	Pass



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	3540	Edge_1RB_Left	18.28	19.18	21.76	24.48	25.38	27.96	<=30	Pass
		Edge_1RB_Right	18.89	19.12	22.02	25.09	25.32	28.22	<=30	Pass
		Outer_Full	18.92	19.63	22.30	25.12	25.83	28.50	<=30	Pass
		Inner_Full	18.96	19.62	22.31	25.16	25.82	28.51	<=30	Pass
		Inner_1RB_Left	18.8	19.66	22.26	25.00	25.86	28.46	<=30	Pass
		Inner_1RB_Right	19.44	19.6	22.53	25.64	25.80	28.73	<=30	Pass
CP-OFDM 16 QAM	3460.02	Edge_1RB_Left	18.37	18.65	21.52	24.57	24.85	27.72	<=30	Pass
		Edge_1RB_Right	18.84	18.55	21.71	25.04	24.75	27.91	<=30	Pass
		Outer_Full	19.09	19.02	22.07	25.29	25.22	28.27	<=30	Pass
		Inner_Full	19.15	18.98	22.08	25.35	25.18	28.28	<=30	Pass
		Inner_1RB_Left	18.98	19.18	22.09	25.18	25.38	28.29	<=30	Pass
		Inner_1RB_Right	19.28	19.22	22.26	25.48	25.42	28.46	<=30	Pass
	3500.01	Edge_1RB_Left	18.41	18.83	21.64	24.61	25.03	27.84	<=30	Pass
		Edge_1RB_Right	18.69	18.9	21.81	24.89	25.10	28.01	<=30	Pass
		Outer_Full	18.93	19.25	22.10	25.13	25.45	28.30	<=30	Pass
		Inner_Full	18.91	19.21	22.07	25.11	25.41	28.27	<=30	Pass
		Inner_1RB_Left	18.93	19.54	22.26	25.13	25.74	28.46	<=30	Pass
		Inner_1RB_Right	19.07	19.41	22.25	25.27	25.61	28.45	<=30	Pass
	3540	Edge_1RB_Left	18.35	19.31	21.87	24.55	25.51	28.07	<=30	Pass
		Edge_1RB_Right	18.79	19	21.91	24.99	25.20	28.11	<=30	Pass
		Outer_Full	18.97	19.65	22.33	25.17	25.85	28.53	<=30	Pass
		Inner_Full	18.99	19.76	22.40	25.19	25.96	28.60	<=30	Pass
		Inner_1RB_Left	18.87	19.62	22.27	25.07	25.82	28.47	<=30	Pass
		Inner_1RB_Right	19.48	19.57	22.54	25.68	25.77	28.74	<=30	Pass
CP-OFDM 64 QAM	3460.02	Edge_1RB_Left	18.51	18.84	21.69	24.71	25.04	27.89	<=30	Pass
		Edge_1RB_Right	19.01	18.58	21.81	25.21	24.78	28.01	<=30	Pass
		Outer_Full	18.55	18.51	21.54	24.75	24.71	27.74	<=30	Pass
		Inner_Full	18.65	18.47	21.57	24.85	24.67	27.77	<=30	Pass
		Inner_1RB_Left	18.41	18.66	21.55	24.61	24.86	27.75	<=30	Pass
		Inner_1RB_Right	18.89	18.6	21.76	25.09	24.80	27.96	<=30	Pass
	3500.01	Edge_1RB_Left	18.36	19.06	21.73	24.56	25.26	27.93	<=30	Pass
		Edge_1RB_Right	18.6	18.64	21.63	24.80	24.84	27.83	<=30	Pass
		Outer_Full	18.41	18.84	21.64	24.61	25.04	27.84	<=30	Pass
		Inner_Full	18.32	18.74	21.55	24.52	24.94	27.75	<=30	Pass
		Inner_1RB_Left	18.48	18.93	21.72	24.68	25.13	27.92	<=30	Pass
		Inner_1RB_Right	18.6	18.88	21.75	24.80	25.08	27.95	<=30	Pass
	3540	Edge_1RB_Left	18.3	19.2	21.78	24.50	25.40	27.98	<=30	Pass



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		Edge_1RB_Right	18.8	19.2	22.01	25.00	25.40	28.21	<=30	Pass
		Outer_Full	18.54	19.11	21.84	24.74	25.31	28.04	<=30	Pass
		Inner_Full	18.48	19.16	21.84	24.68	25.36	28.04	<=30	Pass
		Inner_1RB_Left	18.34	19.2	21.80	24.54	25.40	28.00	<=30	Pass
		Inner_1RB_Right	18.77	19.11	21.95	24.97	25.31	28.15	<=30	Pass
CP-OFDM 256 QAM	3460.02	Edge_1RB_Left	15.34	15.82	18.60	21.54	22.02	24.80	<=30	Pass
		Edge_1RB_Right	15.73	15.62	18.69	21.93	21.82	24.89	<=30	Pass
		Outer_Full	15.65	15.52	18.60	21.85	21.72	24.80	<=30	Pass
		Inner_Full	15.62	15.51	18.58	21.82	21.71	24.78	<=30	Pass
		Inner_1RB_Left	15.49	15.91	18.72	21.69	22.11	24.92	<=30	Pass
		Inner_1RB_Right	15.61	15.62	18.63	21.81	21.82	24.83	<=30	Pass
	3500.01	Edge_1RB_Left	15.26	15.94	18.62	21.46	22.14	24.82	<=30	Pass
		Edge_1RB_Right	15.44	15.65	18.56	21.64	21.85	24.76	<=30	Pass
		Outer_Full	15.43	15.83	18.64	21.63	22.03	24.84	<=30	Pass
		Inner_Full	15.41	15.88	18.66	21.61	22.08	24.86	<=30	Pass
		Inner_1RB_Left	15.3	15.74	18.54	21.50	21.94	24.74	<=30	Pass
		Inner_1RB_Right	15.49	15.82	18.67	21.69	22.02	24.87	<=30	Pass
	3540	Edge_1RB_Left	15.39	16.33	18.90	21.59	22.53	25.10	<=30	Pass
		Edge_1RB_Right	15.81	16.05	18.94	22.01	22.25	25.14	<=30	Pass
		Outer_Full	15.52	16.2	18.88	21.72	22.40	25.08	<=30	Pass
		Inner_Full	15.45	16.2	18.85	21.65	22.40	25.05	<=30	Pass
		Inner_1RB_Left	15.31	16.36	18.88	21.51	22.56	25.08	<=30	Pass
		Inner_1RB_Right	15.54	16.11	18.84	21.74	22.31	25.04	<=30	Pass
Note1: Antenna Gain: Ant1: 6.20dBi; Ant2: 6.20dBi;										
Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2										

1.1.4 30k_MIMO_30MHz_NTNV_EIRP

5G NR n77d SCS=30kHz MIMO 30MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3465	Edge_1RB_Left	18.56	18.73	21.66	24.76	24.93	27.86	<=30	Pass
		Edge_1RB_Right	18.7	18.7	21.71	24.90	24.90	27.91	<=30	Pass
		Outer_Full	19.19	19.17	22.19	25.39	25.37	28.39	<=30	Pass
		Inner_Full	19.13	18.91	22.03	25.33	25.11	28.23	<=30	Pass
		Inner_1RB_Left	19.22	19.19	22.22	25.42	25.39	28.42	<=30	Pass



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	3500.01	Inner_1RB_Right	19.1	19.18	22.15	25.30	25.38	28.35	<=30	Pass
		Edge_1RB_Left	18.58	19.11	21.86	24.78	25.31	28.06	<=30	Pass
		Edge_1RB_Right	18.62	19	21.82	24.82	25.20	28.02	<=30	Pass
		Outer_Full	18.94	19.42	22.20	25.14	25.62	28.40	<=30	Pass
		Inner_Full	18.94	19.35	22.16	25.14	25.55	28.36	<=30	Pass
		Inner_1RB_Left	19.16	19.57	22.38	25.36	25.77	28.58	<=30	Pass
	3534.99	Inner_1RB_Right	19.12	19.59	22.37	25.32	25.79	28.57	<=30	Pass
		Edge_1RB_Left	18.43	19.22	21.85	24.63	25.42	28.05	<=30	Pass
		Edge_1RB_Right	18.96	19.29	22.14	25.16	25.49	28.34	<=30	Pass
		Outer_Full	19.08	19.85	22.49	25.28	26.05	28.69	<=30	Pass
		Inner_Full	18.92	19.92	22.46	25.12	26.12	28.66	<=30	Pass
		Inner_1RB_Left	19.14	19.68	22.43	25.34	25.88	28.63	<=30	Pass
CP-OFDM 16 QAM	3465	Inner_1RB_Right	19.4	19.91	22.67	25.60	26.11	28.87	<=30	Pass
		Edge_1RB_Left	18.67	18.78	21.74	24.87	24.98	27.94	<=30	Pass
		Edge_1RB_Right	18.61	18.44	21.54	24.81	24.64	27.74	<=30	Pass
		Outer_Full	19.27	19.08	22.19	25.47	25.28	28.39	<=30	Pass
		Inner_Full	19.26	18.89	22.09	25.46	25.09	28.29	<=30	Pass
		Inner_1RB_Left	19.02	19.27	22.16	25.22	25.47	28.36	<=30	Pass
	3500.01	Inner_1RB_Right	19.29	19.11	22.21	25.49	25.31	28.41	<=30	Pass
		Edge_1RB_Left	18.59	19.27	21.95	24.79	25.47	28.15	<=30	Pass
		Edge_1RB_Right	18.54	19.01	21.79	24.74	25.21	27.99	<=30	Pass
		Outer_Full	18.98	19.39	22.20	25.18	25.59	28.40	<=30	Pass
		Inner_Full	18.96	19.34	22.16	25.16	25.54	28.36	<=30	Pass
		Inner_1RB_Left	19.14	19.44	22.30	25.34	25.64	28.50	<=30	Pass
	3534.99	Inner_1RB_Right	19.17	19.55	22.37	25.37	25.75	28.57	<=30	Pass
		Edge_1RB_Left	18.54	19.05	21.81	24.74	25.25	28.01	<=30	Pass
		Edge_1RB_Right	18.87	19.36	22.13	25.07	25.56	28.33	<=30	Pass
		Outer_Full	19.15	19.87	22.54	25.35	26.07	28.74	<=30	Pass
		Inner_Full	19.02	19.92	22.50	25.22	26.12	28.70	<=30	Pass
		Inner_1RB_Left	18.98	19.88	22.46	25.18	26.08	28.66	<=30	Pass
CP-OFDM 64 QAM	3465	Inner_1RB_Right	19.43	19.73	22.59	25.63	25.93	28.79	<=30	Pass
		Edge_1RB_Left	18.47	18.76	21.63	24.67	24.96	27.83	<=30	Pass
		Edge_1RB_Right	18.83	18.56	21.71	25.03	24.76	27.91	<=30	Pass
		Outer_Full	18.67	18.55	21.62	24.87	24.75	27.82	<=30	Pass
		Inner_Full	18.75	18.44	21.61	24.95	24.64	27.81	<=30	Pass
		Inner_1RB_Left	18.61	18.79	21.71	24.81	24.99	27.91	<=30	Pass
		Inner_1RB_Right	18.51	18.84	21.69	24.71	25.04	27.89	<=30	Pass



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	3500.01	Edge_1RB_Left	18.6	18.91	21.77	24.80	25.11	27.97	<=30	Pass
		Edge_1RB_Right	18.45	19.01	21.75	24.65	25.21	27.95	<=30	Pass
		Outer_Full	18.51	18.97	21.76	24.71	25.17	27.96	<=30	Pass
		Inner_Full	18.51	18.88	21.71	24.71	25.08	27.91	<=30	Pass
		Inner_1RB_Left	18.72	18.82	21.78	24.92	25.02	27.98	<=30	Pass
		Inner_1RB_Right	18.8	18.93	21.88	25.00	25.13	28.08	<=30	Pass
	3534.99	Edge_1RB_Left	18.5	19.32	21.94	24.70	25.52	28.14	<=30	Pass
		Edge_1RB_Right	19.08	19.48	22.29	25.28	25.68	28.49	<=30	Pass
		Outer_Full	18.62	19.39	22.03	24.82	25.59	28.23	<=30	Pass
		Inner_Full	18.54	19.42	22.01	24.74	25.62	28.21	<=30	Pass
		Inner_1RB_Left	18.61	19.18	21.91	24.81	25.38	28.11	<=30	Pass
		Inner_1RB_Right	19.15	19.3	22.24	25.35	25.50	28.44	<=30	Pass
CP-OFDM 256 QAM	3465	Edge_1RB_Left	15.46	15.96	18.73	21.66	22.16	24.93	<=30	Pass
		Edge_1RB_Right	15.63	15.61	18.63	21.83	21.81	24.83	<=30	Pass
		Outer_Full	15.75	15.54	18.66	21.95	21.74	24.86	<=30	Pass
		Inner_Full	15.68	15.45	18.58	21.88	21.65	24.78	<=30	Pass
		Inner_1RB_Left	15.63	15.85	18.75	21.83	22.05	24.95	<=30	Pass
		Inner_1RB_Right	15.75	15.71	18.74	21.95	21.91	24.94	<=30	Pass
	3500.01	Edge_1RB_Left	15.68	15.93	18.82	21.88	22.13	25.02	<=30	Pass
		Edge_1RB_Right	15.51	15.95	18.75	21.71	22.15	24.95	<=30	Pass
		Outer_Full	15.47	15.95	18.73	21.67	22.15	24.93	<=30	Pass
		Inner_Full	15.46	15.89	18.69	21.66	22.09	24.89	<=30	Pass
		Inner_1RB_Left	15.74	16.01	18.89	21.94	22.21	25.09	<=30	Pass
		Inner_1RB_Right	15.38	15.94	18.68	21.58	22.14	24.88	<=30	Pass
	3534.99	Edge_1RB_Left	15.56	16.08	18.84	21.76	22.28	25.04	<=30	Pass
		Edge_1RB_Right	15.91	16.37	19.16	22.11	22.57	25.36	<=30	Pass
		Outer_Full	15.59	16.36	19.00	21.79	22.56	25.20	<=30	Pass
		Inner_Full	15.41	16.4	18.94	21.61	22.60	25.14	<=30	Pass
		Inner_1RB_Left	15.4	16.39	18.93	21.60	22.59	25.13	<=30	Pass
		Inner_1RB_Right	15.8	16.16	18.99	22.00	22.36	25.19	<=30	Pass
Note1: Antenna Gain: Ant1: 6.20dBi; Ant2: 6.20dBi;										
Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2										

1.1.5 30k_MIMO_40MHz_NTNV_EIRP

5G NR n77d SCS=30kHz MIMO 40MHz NTN



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Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3470.01	Edge_1RB_Left	18.64	18.93	21.80	24.84	25.13	28.00	<=30	Pass
		Edge_1RB_Right	18.71	19.11	21.92	24.91	25.31	28.12	<=30	Pass
		Outer_Full	19.24	19.28	22.27	25.44	25.48	28.47	<=30	Pass
		Inner_Full	19.35	19.11	22.24	25.55	25.31	28.44	<=30	Pass
		Inner_1RB_Left	19.12	19.23	22.19	25.32	25.43	28.39	<=30	Pass
		Inner_1RB_Right	19.19	19.48	22.35	25.39	25.68	28.55	<=30	Pass
	3500.01	Edge_1RB_Left	18.83	18.89	21.87	25.03	25.09	28.07	<=30	Pass
		Edge_1RB_Right	18.47	19.09	21.80	24.67	25.29	28.00	<=30	Pass
		Outer_Full	18.99	19.38	22.20	25.19	25.58	28.40	<=30	Pass
		Inner_Full	18.96	19.34	22.16	25.16	25.54	28.36	<=30	Pass
		Inner_1RB_Left	19.28	19.43	22.37	25.48	25.63	28.57	<=30	Pass
		Inner_1RB_Right	19.09	19.62	22.37	25.29	25.82	28.57	<=30	Pass
	3529.98	Edge_1RB_Left	18.66	19	21.84	24.86	25.20	28.04	<=30	Pass
		Edge_1RB_Right	19.03	19.25	22.15	25.23	25.45	28.35	<=30	Pass
		Outer_Full	19.04	19.7	22.39	25.24	25.90	28.59	<=30	Pass
		Inner_Full	18.92	19.72	22.35	25.12	25.92	28.55	<=30	Pass
		Inner_1RB_Left	19.26	19.58	22.43	25.46	25.78	28.63	<=30	Pass
		Inner_1RB_Right	19.47	19.77	22.63	25.67	25.97	28.83	<=30	Pass
CP-OFDM 16 QAM	3470.01	Edge_1RB_Left	18.57	18.97	21.78	24.77	25.17	27.98	<=30	Pass
		Edge_1RB_Right	18.69	19.21	21.97	24.89	25.41	28.17	<=30	Pass
		Outer_Full	19.31	19.25	22.29	25.51	25.45	28.49	<=30	Pass
		Inner_Full	19.32	19.19	22.27	25.52	25.39	28.47	<=30	Pass
		Inner_1RB_Left	19.07	19.34	22.22	25.27	25.54	28.42	<=30	Pass
		Inner_1RB_Right	19.15	19.6	22.39	25.35	25.80	28.59	<=30	Pass
	3500.01	Edge_1RB_Left	18.98	18.88	21.94	25.18	25.08	28.14	<=30	Pass
		Edge_1RB_Right	18.55	19.11	21.85	24.75	25.31	28.05	<=30	Pass
		Outer_Full	19.07	19.39	22.24	25.27	25.59	28.44	<=30	Pass
		Inner_Full	18.93	19.43	22.20	25.13	25.63	28.40	<=30	Pass
		Inner_1RB_Left	19.15	19.36	22.27	25.35	25.56	28.47	<=30	Pass
		Inner_1RB_Right	19.05	19.65	22.37	25.25	25.85	28.57	<=30	Pass
	3529.98	Edge_1RB_Left	18.72	18.99	21.87	24.92	25.19	28.07	<=30	Pass
		Edge_1RB_Right	19.02	19.57	22.31	25.22	25.77	28.51	<=30	Pass
		Outer_Full	19	19.65	22.35	25.20	25.85	28.55	<=30	Pass
		Inner_Full	18.87	19.68	22.30	25.07	25.88	28.50	<=30	Pass
		Inner_1RB_Left	19.11	19.54	22.34	25.31	25.74	28.54	<=30	Pass



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		Inner_1RB_Right	19.35	19.99	22.69	25.55	26.19	28.89	<=30	Pass
CP-OFDM 64 QAM	3470.01	Edge_1RB_Left	18.76	18.69	21.74	24.96	24.89	27.94	<=30	Pass
		Edge_1RB_Right	18.51	19.33	21.95	24.71	25.53	28.15	<=30	Pass
		Outer_Full	18.78	18.81	21.81	24.98	25.01	28.01	<=30	Pass
		Inner_Full	18.87	18.68	21.79	25.07	24.88	27.99	<=30	Pass
		Inner_1RB_Left	18.66	18.93	21.81	24.86	25.13	28.01	<=30	Pass
		Inner_1RB_Right	18.67	19	21.85	24.87	25.20	28.05	<=30	Pass
	3500.01	Edge_1RB_Left	18.64	18.85	21.76	24.84	25.05	27.96	<=30	Pass
		Edge_1RB_Right	18.62	19.23	21.95	24.82	25.43	28.15	<=30	Pass
		Outer_Full	18.57	18.99	21.80	24.77	25.19	28.00	<=30	Pass
		Inner_Full	18.51	18.87	21.70	24.71	25.07	27.90	<=30	Pass
		Inner_1RB_Left	18.68	19.17	21.94	24.88	25.37	28.14	<=30	Pass
		Inner_1RB_Right	18.55	18.94	21.76	24.75	25.14	27.96	<=30	Pass
	3529.98	Edge_1RB_Left	18.67	19.03	21.86	24.87	25.23	28.06	<=30	Pass
		Edge_1RB_Right	18.99	19.27	22.14	25.19	25.47	28.34	<=30	Pass
		Outer_Full	18.51	19.19	21.87	24.71	25.39	28.07	<=30	Pass
		Inner_Full	18.3	19.23	21.80	24.50	25.43	28.00	<=30	Pass
		Inner_1RB_Left	18.67	19.07	21.88	24.87	25.27	28.08	<=30	Pass
		Inner_1RB_Right	18.82	19.27	22.06	25.02	25.47	28.26	<=30	Pass
CP-OFDM 256 QAM	3470.01	Edge_1RB_Left	15.69	15.89	18.80	21.89	22.09	25.00	<=30	Pass
		Edge_1RB_Right	15.47	16.11	18.81	21.67	22.31	25.01	<=30	Pass
		Outer_Full	15.81	15.78	18.81	22.01	21.98	25.01	<=30	Pass
		Inner_Full	15.81	15.73	18.78	22.01	21.93	24.98	<=30	Pass
		Inner_1RB_Left	15.44	15.75	18.61	21.64	21.95	24.81	<=30	Pass
		Inner_1RB_Right	15.9	16.28	19.10	22.10	22.48	25.30	<=30	Pass
	3500.01	Edge_1RB_Left	15.72	15.92	18.83	21.92	22.12	25.03	<=30	Pass
		Edge_1RB_Right	15.52	16.02	18.79	21.72	22.22	24.99	<=30	Pass
		Outer_Full	15.59	15.95	18.78	21.79	22.15	24.98	<=30	Pass
		Inner_Full	15.52	15.91	18.73	21.72	22.11	24.93	<=30	Pass
		Inner_1RB_Left	15.63	15.93	18.79	21.83	22.13	24.99	<=30	Pass
		Inner_1RB_Right	15.5	16.06	18.80	21.70	22.26	25.00	<=30	Pass
	3529.98	Edge_1RB_Left	15.61	16.07	18.86	21.81	22.27	25.06	<=30	Pass
		Edge_1RB_Right	15.91	16.35	19.15	22.11	22.55	25.35	<=30	Pass
		Outer_Full	15.59	16.26	18.95	21.79	22.46	25.15	<=30	Pass
		Inner_Full	15.35	16.24	18.83	21.55	22.44	25.03	<=30	Pass
		Inner_1RB_Left	15.63	15.92	18.79	21.83	22.12	24.99	<=30	Pass
		Inner_1RB_Right	15.87	16.32	19.11	22.07	22.52	25.31	<=30	Pass



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Note1: Antenna Gain: Ant1: 6.20dBi; Ant2: 6.20dBi;

Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2

1.1.6 30k_MIMO_50MHz_NTNV_EIRP

5G NR n77d SCS=30kHz MIMO 50MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3475.02	Edge_1RB_Left	18.52	18.61	21.58	24.72	24.81	27.78	<=30	Pass
		Edge_1RB_Right	18.22	18.59	21.42	24.42	24.79	27.62	<=30	Pass
		Outer_Full	18.87	18.94	21.92	25.07	25.14	28.12	<=30	Pass
		Inner_Full	18.96	18.91	21.95	25.16	25.11	28.15	<=30	Pass
		Inner_1RB_Left	18.87	19.04	21.97	25.07	25.24	28.17	<=30	Pass
		Inner_1RB_Right	18.55	19.03	21.81	24.75	25.23	28.01	<=30	Pass
	3500.01	Edge_1RB_Left	18.68	18.72	21.71	24.88	24.92	27.91	<=30	Pass
		Edge_1RB_Right	18.06	18.87	21.49	24.26	25.07	27.69	<=30	Pass
		Outer_Full	18.79	19.28	22.05	24.99	25.48	28.25	<=30	Pass
		Inner_Full	18.8	19.12	21.97	25.00	25.32	28.17	<=30	Pass
		Inner_1RB_Left	19.01	19.09	22.06	25.21	25.29	28.26	<=30	Pass
		Inner_1RB_Right	18.61	19.56	22.12	24.81	25.76	28.32	<=30	Pass
	3525	Edge_1RB_Left	18.33	18.69	21.52	24.53	24.89	27.72	<=30	Pass
		Edge_1RB_Right	18.6	18.89	21.76	24.80	25.09	27.96	<=30	Pass
		Outer_Full	18.72	19.3	22.03	24.92	25.50	28.23	<=30	Pass
		Inner_Full	18.53	19.32	21.95	24.73	25.52	28.15	<=30	Pass
		Inner_1RB_Left	18.85	19.06	21.97	25.05	25.26	28.17	<=30	Pass
		Inner_1RB_Right	18.96	19.43	22.21	25.16	25.63	28.41	<=30	Pass
CP-OFDM 16 QAM	3475.02	Edge_1RB_Left	18.4	18.54	21.48	24.60	24.74	27.68	<=30	Pass
		Edge_1RB_Right	18.09	18.52	21.32	24.29	24.72	27.52	<=30	Pass
		Outer_Full	18.86	18.91	21.90	25.06	25.11	28.10	<=30	Pass
		Inner_Full	18.94	18.88	21.92	25.14	25.08	28.12	<=30	Pass
		Inner_1RB_Left	18.88	19.18	22.04	25.08	25.38	28.24	<=30	Pass
		Inner_1RB_Right	18.67	19.03	21.86	24.87	25.23	28.06	<=30	Pass
	3500.01	Edge_1RB_Left	18.52	18.49	21.52	24.72	24.69	27.72	<=30	Pass
		Edge_1RB_Right	18.03	19	21.55	24.23	25.20	27.75	<=30	Pass
		Outer_Full	18.77	19.15	21.97	24.97	25.35	28.17	<=30	Pass
		Inner_Full	18.81	19.17	22.00	25.01	25.37	28.20	<=30	Pass



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		Inner_1RB_Left	19.18	18.98	22.09	25.38	25.18	28.29	<=30	Pass
		Inner_1RB_Right	18.48	19.58	22.08	24.68	25.78	28.28	<=30	Pass
	3525	Edge_1RB_Left	18.16	18.63	21.41	24.36	24.83	27.61	<=30	Pass
		Edge_1RB_Right	18.41	18.81	21.62	24.61	25.01	27.82	<=30	Pass
		Outer_Full	18.68	19.32	22.02	24.88	25.52	28.22	<=30	Pass
		Inner_Full	18.61	19.22	21.94	24.81	25.42	28.14	<=30	Pass
		Inner_1RB_Left	18.77	19.11	21.95	24.97	25.31	28.15	<=30	Pass
		Inner_1RB_Right	19	19.37	22.20	25.20	25.57	28.40	<=30	Pass
CP-OFDM 64 QAM	3475.02	Edge_1RB_Left	18.31	18.67	21.50	24.51	24.87	27.70	<=30	Pass
		Edge_1RB_Right	18.15	18.57	21.38	24.35	24.77	27.58	<=30	Pass
		Outer_Full	18.29	18.46	21.39	24.49	24.66	27.59	<=30	Pass
		Inner_Full	18.37	18.45	21.42	24.57	24.65	27.62	<=30	Pass
		Inner_1RB_Left	18.35	18.63	21.50	24.55	24.83	27.70	<=30	Pass
		Inner_1RB_Right	18.06	18.69	21.40	24.26	24.89	27.60	<=30	Pass
	3500.01	Edge_1RB_Left	18.6	18.48	21.55	24.80	24.68	27.75	<=30	Pass
		Edge_1RB_Right	18.14	18.84	21.51	24.34	25.04	27.71	<=30	Pass
		Outer_Full	18.41	18.67	21.55	24.61	24.87	27.75	<=30	Pass
		Inner_Full	18.31	18.64	21.49	24.51	24.84	27.69	<=30	Pass
		Inner_1RB_Left	18.66	18.49	21.59	24.86	24.69	27.79	<=30	Pass
		Inner_1RB_Right	18.06	19.01	21.57	24.26	25.21	27.77	<=30	Pass
	3525	Edge_1RB_Left	18.28	18.57	21.44	24.48	24.77	27.64	<=30	Pass
		Edge_1RB_Right	18.37	18.81	21.61	24.57	25.01	27.81	<=30	Pass
		Outer_Full	18.18	18.85	21.54	24.38	25.05	27.74	<=30	Pass
		Inner_Full	18.08	18.77	21.45	24.28	24.97	27.65	<=30	Pass
		Inner_1RB_Left	18.39	18.53	21.47	24.59	24.73	27.67	<=30	Pass
		Inner_1RB_Right	18.45	18.77	21.62	24.65	24.97	27.82	<=30	Pass
CP-OFDM 256 QAM	3475.02	Edge_1RB_Left	15.45	15.7	18.59	21.65	21.90	24.79	<=30	Pass
		Edge_1RB_Right	15.09	15.46	18.29	21.29	21.66	24.49	<=30	Pass
		Outer_Full	15.39	15.47	18.44	21.59	21.67	24.64	<=30	Pass
		Inner_Full	15.38	15.44	18.42	21.58	21.64	24.62	<=30	Pass
		Inner_1RB_Left	15.29	15.66	18.49	21.49	21.86	24.69	<=30	Pass
		Inner_1RB_Right	14.95	15.53	18.26	21.15	21.73	24.46	<=30	Pass
	3500.01	Edge_1RB_Left	15.69	15.48	18.60	21.89	21.68	24.80	<=30	Pass
		Edge_1RB_Right	15.08	15.77	18.45	21.28	21.97	24.65	<=30	Pass
		Outer_Full	15.37	15.78	18.59	21.57	21.98	24.79	<=30	Pass
		Inner_Full	15.29	15.65	18.48	21.49	21.85	24.68	<=30	Pass
		Inner_1RB_Left	15.59	15.38	18.50	21.79	21.58	24.70	<=30	Pass



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	Inner_1RB_Right	14.87	15.83	18.39	21.07	22.03	24.59	<=30	Pass
3525	Edge_1RB_Left	15.43	15.75	18.60	21.63	21.95	24.80	<=30	Pass
	Edge_1RB_Right	15.57	15.9	18.75	21.77	22.10	24.95	<=30	Pass
	Outer_Full	15.26	15.81	18.55	21.46	22.01	24.75	<=30	Pass
	Inner_Full	15.1	15.78	18.46	21.30	21.98	24.66	<=30	Pass
	Inner_1RB_Left	15.27	15.52	18.41	21.47	21.72	24.61	<=30	Pass
	Inner_1RB_Right	15.53	15.81	18.68	21.73	22.01	24.88	<=30	Pass
<p>Note1: Antenna Gain: Ant1: 6.20dBi; Ant2: 6.20dBi;</p> <p>Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2</p>									

1.1.7 30k_MIMO_60MHz_NTNV_EIRP

5G NR n77d SCS=30kHz MIMO 60MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3480	Edge_1RB_Left	18.25	18.69	21.49	24.45	24.89	27.69	<=30	Pass
		Edge_1RB_Right	18.32	18.72	21.53	24.52	24.92	27.73	<=30	Pass
		Outer_Full	18.95	19.16	22.07	25.15	25.36	28.27	<=30	Pass
		Inner_Full	18.95	19.02	22.00	25.15	25.22	28.20	<=30	Pass
		Inner_1RB_Left	18.73	19.07	21.91	24.93	25.27	28.11	<=30	Pass
		Inner_1RB_Right	18.94	19.21	22.09	25.14	25.41	28.29	<=30	Pass
	3500.01	Edge_1RB_Left	18.51	18.31	21.42	24.71	24.51	27.62	<=30	Pass
		Edge_1RB_Right	18.11	18.99	21.58	24.31	25.19	27.78	<=30	Pass
		Outer_Full	18.82	19.22	22.03	25.02	25.42	28.23	<=30	Pass
		Inner_Full	18.78	19.15	21.98	24.98	25.35	28.18	<=30	Pass
		Inner_1RB_Left	18.94	18.86	21.91	25.14	25.06	28.11	<=30	Pass
		Inner_1RB_Right	18.48	19.48	22.02	24.68	25.68	28.22	<=30	Pass
	3519.99	Edge_1RB_Left	18.27	18.72	21.51	24.47	24.92	27.71	<=30	Pass
		Edge_1RB_Right	18.75	19	21.89	24.95	25.20	28.09	<=30	Pass
		Outer_Full	18.87	19.24	22.07	25.07	25.44	28.27	<=30	Pass
		Inner_Full	18.77	19.36	22.09	24.97	25.56	28.29	<=30	Pass
		Inner_1RB_Left	18.89	19.28	22.10	25.09	25.48	28.30	<=30	Pass
		Inner_1RB_Right	19.17	19.56	22.38	25.37	25.76	28.58	<=30	Pass
CP-OFDM 16 QAM	3480	Edge_1RB_Left	18.31	18.65	21.49	24.51	24.85	27.69	<=30	Pass
		Edge_1RB_Right	18.29	18.48	21.40	24.49	24.68	27.60	<=30	Pass
		Outer_Full	18.91	18.98	21.96	25.11	25.18	28.16	<=30	Pass



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		Inner_Full	19.01	19.04	22.04	25.21	25.24	28.24	<=30	Pass
		Inner_1RB_Left	18.91	19.08	22.01	25.11	25.28	28.21	<=30	Pass
		Inner_1RB_Right	18.95	19.14	22.06	25.15	25.34	28.26	<=30	Pass
	3500.01	Edge_1RB_Left	18.46	18.35	21.42	24.66	24.55	27.62	<=30	Pass
		Edge_1RB_Right	18.12	18.98	21.58	24.32	25.18	27.78	<=30	Pass
		Outer_Full	18.86	19.12	22.00	25.06	25.32	28.20	<=30	Pass
		Inner_Full	18.76	19.21	22.00	24.96	25.41	28.20	<=30	Pass
		Inner_1RB_Left	18.87	18.87	21.88	25.07	25.07	28.08	<=30	Pass
		Inner_1RB_Right	18.6	19.67	22.18	24.80	25.87	28.38	<=30	Pass
	3519.99	Edge_1RB_Left	18.17	18.81	21.51	24.37	25.01	27.71	<=30	Pass
		Edge_1RB_Right	18.6	19.19	21.92	24.80	25.39	28.12	<=30	Pass
		Outer_Full	18.82	19.32	22.09	25.02	25.52	28.29	<=30	Pass
		Inner_Full	18.74	19.37	22.08	24.94	25.57	28.28	<=30	Pass
		Inner_1RB_Left	18.7	19.26	22.00	24.90	25.46	28.20	<=30	Pass
		Inner_1RB_Right	18.99	19.51	22.27	25.19	25.71	28.47	<=30	Pass
CP-OFDM 64 QAM	3480	Edge_1RB_Left	18.3	18.63	21.48	24.50	24.83	27.68	<=30	Pass
		Edge_1RB_Right	18.29	18.4	21.36	24.49	24.60	27.56	<=30	Pass
		Outer_Full	18.43	18.52	21.49	24.63	24.72	27.69	<=30	Pass
		Inner_Full	18.45	18.53	21.50	24.65	24.73	27.70	<=30	Pass
		Inner_1RB_Left	18.29	18.57	21.44	24.49	24.77	27.64	<=30	Pass
		Inner_1RB_Right	18.37	18.58	21.49	24.57	24.78	27.69	<=30	Pass
	3500.01	Edge_1RB_Left	18.47	18.26	21.38	24.67	24.46	27.58	<=30	Pass
		Edge_1RB_Right	18.06	18.85	21.48	24.26	25.05	27.68	<=30	Pass
		Outer_Full	18.33	18.66	21.51	24.53	24.86	27.71	<=30	Pass
		Inner_Full	18.27	18.68	21.49	24.47	24.88	27.69	<=30	Pass
		Inner_1RB_Left	18.78	18.24	21.53	24.98	24.44	27.73	<=30	Pass
		Inner_1RB_Right	18.32	19.03	21.70	24.52	25.23	27.90	<=30	Pass
	3519.99	Edge_1RB_Left	18.37	18.67	21.53	24.57	24.87	27.73	<=30	Pass
		Edge_1RB_Right	18.67	18.95	21.82	24.87	25.15	28.02	<=30	Pass
		Outer_Full	18.34	18.81	21.59	24.54	25.01	27.79	<=30	Pass
		Inner_Full	18.29	18.86	21.59	24.49	25.06	27.79	<=30	Pass
		Inner_1RB_Left	18.41	18.69	21.56	24.61	24.89	27.76	<=30	Pass
		Inner_1RB_Right	18.51	19.12	21.84	24.71	25.32	28.04	<=30	Pass
CP-OFDM 256 QAM	3480	Edge_1RB_Left	15.32	15.66	18.50	21.52	21.86	24.70	<=30	Pass
		Edge_1RB_Right	15.3	15.52	18.42	21.50	21.72	24.62	<=30	Pass
		Outer_Full	15.5	15.54	18.53	21.70	21.74	24.73	<=30	Pass
		Inner_Full	15.46	15.47	18.48	21.66	21.67	24.68	<=30	Pass



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		Inner_1RB_Left	15.32	15.51	18.43	21.52	21.71	24.63	<=30	Pass
		Inner_1RB_Right	15.38	15.83	18.62	21.58	22.03	24.82	<=30	Pass
	3500.01	Edge_1RB_Left	15.48	15.39	18.45	21.68	21.59	24.65	<=30	Pass
		Edge_1RB_Right	15.08	16.1	18.63	21.28	22.30	24.83	<=30	Pass
		Outer_Full	15.32	15.7	18.52	21.52	21.90	24.72	<=30	Pass
		Inner_Full	15.25	15.65	18.46	21.45	21.85	24.66	<=30	Pass
		Inner_1RB_Left	15.64	15.51	18.59	21.84	21.71	24.79	<=30	Pass
		Inner_1RB_Right	15.19	16.07	18.66	21.39	22.27	24.86	<=30	Pass
	3519.99	Edge_1RB_Left	15.32	15.63	18.49	21.52	21.83	24.69	<=30	Pass
		Edge_1RB_Right	15.55	15.94	18.76	21.75	22.14	24.96	<=30	Pass
		Outer_Full	15.33	15.81	18.59	21.53	22.01	24.79	<=30	Pass
		Inner_Full	15.28	15.87	18.60	21.48	22.07	24.80	<=30	Pass
		Inner_1RB_Left	15.27	15.89	18.60	21.47	22.09	24.80	<=30	Pass
		Inner_1RB_Right	15.7	16.05	18.89	21.90	22.25	25.09	<=30	Pass

Note1: Antenna Gain: Ant1: 6.20dBi; Ant2: 6.20dBi;

Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2

1.1.8 30k_MIMO_70MHz_NTNV_EIRP

5G NR n77d SCS=30kHz MIMO 70MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3485.01	Edge_1RB_Left	18.23	18.56	21.41	24.43	24.76	27.61	<=30	Pass
		Edge_1RB_Right	18.14	18.64	21.41	24.34	24.84	27.61	<=30	Pass
		Outer_Full	18.73	18.92	21.84	24.93	25.12	28.04	<=30	Pass
		Inner_Full	18.73	18.91	21.83	24.93	25.11	28.03	<=30	Pass
		Inner_1RB_Left	18.88	19.02	21.96	25.08	25.22	28.16	<=30	Pass
		Inner_1RB_Right	18.43	19.25	21.87	24.63	25.45	28.07	<=30	Pass
	3500.01	Edge_1RB_Left	18.4	18.3	21.36	24.60	24.50	27.56	<=30	Pass
		Edge_1RB_Right	18.12	19.09	21.64	24.32	25.29	27.84	<=30	Pass
		Outer_Full	18.77	19.12	21.96	24.97	25.32	28.16	<=30	Pass
		Inner_Full	18.69	19.13	21.93	24.89	25.33	28.13	<=30	Pass
		Inner_1RB_Left	18.9	18.7	21.81	25.10	24.90	28.01	<=30	Pass
		Inner_1RB_Right	18.53	19.6	22.11	24.73	25.80	28.31	<=30	Pass
	3514.98	Edge_1RB_Left	18.54	18.61	21.59	24.74	24.81	27.79	<=30	Pass
		Edge_1RB_Right	18.5	18.96	21.75	24.70	25.16	27.95	<=30	Pass



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		Outer_Full	18.71	19.28	22.01	24.91	25.48	28.21	<=30	Pass
		Inner_Full	18.73	19.3	22.03	24.93	25.50	28.23	<=30	Pass
		Inner_1RB_Left	18.83	19.12	21.99	25.03	25.32	28.19	<=30	Pass
		Inner_1RB_Right	19.08	19.74	22.43	25.28	25.94	28.63	<=30	Pass
CP-OFDM 16 QAM	3485.01	Edge_1RB_Left	18.21	18.73	21.49	24.41	24.93	27.69	<=30	Pass
		Edge_1RB_Right	17.95	18.79	21.40	24.15	24.99	27.60	<=30	Pass
		Outer_Full	18.68	18.87	21.79	24.88	25.07	27.99	<=30	Pass
		Inner_Full	18.75	18.91	21.84	24.95	25.11	28.04	<=30	Pass
		Inner_1RB_Left	18.67	19.09	21.90	24.87	25.29	28.10	<=30	Pass
		Inner_1RB_Right	18.63	19.13	21.90	24.83	25.33	28.10	<=30	Pass
	3500.01	Edge_1RB_Left	18.36	18.35	21.37	24.56	24.55	27.57	<=30	Pass
		Edge_1RB_Right	17.92	18.98	21.49	24.12	25.18	27.69	<=30	Pass
		Outer_Full	18.66	19.15	21.92	24.86	25.35	28.12	<=30	Pass
		Inner_Full	18.65	19.1	21.89	24.85	25.30	28.09	<=30	Pass
		Inner_1RB_Left	18.87	18.83	21.86	25.07	25.03	28.06	<=30	Pass
		Inner_1RB_Right	18.5	19.6	22.10	24.70	25.80	28.30	<=30	Pass
	3514.98	Edge_1RB_Left	18.34	18.6	21.48	24.54	24.80	27.68	<=30	Pass
		Edge_1RB_Right	18.58	18.96	21.78	24.78	25.16	27.98	<=30	Pass
		Outer_Full	18.78	19.3	22.06	24.98	25.50	28.26	<=30	Pass
		Inner_Full	18.7	19.28	22.01	24.90	25.48	28.21	<=30	Pass
		Inner_1RB_Left	18.93	19.06	22.01	25.13	25.26	28.21	<=30	Pass
		Inner_1RB_Right	19.03	19.19	22.12	25.23	25.39	28.32	<=30	Pass
CP-OFDM 64 QAM	3485.01	Edge_1RB_Left	18.3	18.49	21.41	24.50	24.69	27.61	<=30	Pass
		Edge_1RB_Right	18.13	18.83	21.50	24.33	25.03	27.70	<=30	Pass
		Outer_Full	18.27	18.45	21.37	24.47	24.65	27.57	<=30	Pass
		Inner_Full	18.32	18.45	21.40	24.52	24.65	27.60	<=30	Pass
		Inner_1RB_Left	18.38	18.48	21.44	24.58	24.68	27.64	<=30	Pass
		Inner_1RB_Right	18.04	18.69	21.39	24.24	24.89	27.59	<=30	Pass
	3500.01	Edge_1RB_Left	18.36	18.13	21.26	24.56	24.33	27.46	<=30	Pass
		Edge_1RB_Right	17.98	19.21	21.65	24.18	25.41	27.85	<=30	Pass
		Outer_Full	18.23	18.63	21.44	24.43	24.83	27.64	<=30	Pass
		Inner_Full	18.23	18.6	21.43	24.43	24.80	27.63	<=30	Pass
		Inner_1RB_Left	18.48	18.07	21.29	24.68	24.27	27.49	<=30	Pass
		Inner_1RB_Right	18.15	19.09	21.66	24.35	25.29	27.86	<=30	Pass
	3514.98	Edge_1RB_Left	18.43	18.53	21.49	24.63	24.73	27.69	<=30	Pass
		Edge_1RB_Right	18.68	18.91	21.81	24.88	25.11	28.01	<=30	Pass
		Outer_Full	18.28	18.86	21.59	24.48	25.06	27.79	<=30	Pass



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		Inner_Full	18.28	18.8	21.56	24.48	25.00	27.76	<=30	Pass
		Inner_1RB_Left	18.46	18.75	21.62	24.66	24.95	27.82	<=30	Pass
		Inner_1RB_Right	18.6	18.91	21.77	24.80	25.11	27.97	<=30	Pass
CP-OFDM 256 QAM	3485.01	Edge_1RB_Left	15.29	15.67	18.49	21.49	21.87	24.69	<=30	Pass
		Edge_1RB_Right	15.23	15.61	18.43	21.43	21.81	24.63	<=30	Pass
		Outer_Full	15.3	15.45	18.39	21.50	21.65	24.59	<=30	Pass
		Inner_Full	15.25	15.57	18.42	21.45	21.77	24.62	<=30	Pass
		Inner_1RB_Left	15.25	15.38	18.33	21.45	21.58	24.53	<=30	Pass
		Inner_1RB_Right	15.01	15.56	18.30	21.21	21.76	24.50	<=30	Pass
	3500.01	Edge_1RB_Left	15.44	15.31	18.39	21.64	21.51	24.59	<=30	Pass
		Edge_1RB_Right	14.93	16.18	18.61	21.13	22.38	24.81	<=30	Pass
		Outer_Full	15.24	15.63	18.45	21.44	21.83	24.65	<=30	Pass
		Inner_Full	15.2	15.58	18.40	21.40	21.78	24.60	<=30	Pass
		Inner_1RB_Left	15.52	15.29	18.42	21.72	21.49	24.62	<=30	Pass
		Inner_1RB_Right	14.94	16.07	18.55	21.14	22.27	24.75	<=30	Pass
	3514.98	Edge_1RB_Left	15.28	15.41	18.36	21.48	21.61	24.56	<=30	Pass
		Edge_1RB_Right	15.46	15.73	18.61	21.66	21.93	24.81	<=30	Pass
		Outer_Full	15.26	15.84	18.57	21.46	22.04	24.77	<=30	Pass
		Inner_Full	15.31	15.83	18.59	21.51	22.03	24.79	<=30	Pass
		Inner_1RB_Left	15.32	15.68	18.51	21.52	21.88	24.71	<=30	Pass
		Inner_1RB_Right	15.56	15.98	18.79	21.76	22.18	24.99	<=30	Pass

Note1: Antenna Gain: Ant1: 6.20dBi; Ant2: 6.20dBi;
Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2

1.1.9 30k_MIMO_80MHz_NTNV_EIRP

5G NR n77d SCS=30kHz MIMO 80MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3490.02	Edge_1RB_Left	18.17	18.5	21.35	24.37	24.70	27.55	<=30	Pass
		Edge_1RB_Right	17.93	18.87	21.44	24.13	25.07	27.64	<=30	Pass
		Outer_Full	18.82	19.06	21.95	25.02	25.26	28.15	<=30	Pass
		Inner_Full	18.83	19.07	21.96	25.03	25.27	28.16	<=30	Pass
		Inner_1RB_Left	18.68	18.96	21.83	24.88	25.16	28.03	<=30	Pass
		Inner_1RB_Right	18.46	19.35	21.94	24.66	25.55	28.14	<=30	Pass
	3500.01	Edge_1RB_Left	18.27	18.3	21.30	24.47	24.50	27.50	<=30	Pass



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		Edge_1RB_Right	18.1	18.9	21.53	24.30	25.10	27.73	<=30	Pass
		Outer_Full	18.74	19.03	21.90	24.94	25.23	28.10	<=30	Pass
		Inner_Full	18.67	19.04	21.87	24.87	25.24	28.07	<=30	Pass
		Inner_1RB_Left	18.85	18.86	21.87	25.05	25.06	28.07	<=30	Pass
		Inner_1RB_Right	18.83	19.43	22.15	25.03	25.63	28.35	<=30	Pass
	3510	Edge_1RB_Left	18.44	18.26	21.36	24.64	24.46	27.56	<=30	Pass
		Edge_1RB_Right	18.44	18.87	21.67	24.64	25.07	27.87	<=30	Pass
		Outer_Full	18.73	19.15	21.96	24.93	25.35	28.16	<=30	Pass
		Inner_Full	18.63	19.23	21.95	24.83	25.43	28.15	<=30	Pass
		Inner_1RB_Left	18.92	18.72	21.83	25.12	24.92	28.03	<=30	Pass
		Inner_1RB_Right	19.15	19.51	22.34	25.35	25.71	28.54	<=30	Pass
CP-OFDM 16 QAM	3490.02	Edge_1RB_Left	18.23	18.62	21.44	24.43	24.82	27.64	<=30	Pass
		Edge_1RB_Right	17.91	19	21.50	24.11	25.20	27.70	<=30	Pass
		Outer_Full	18.83	19.07	21.96	25.03	25.27	28.16	<=30	Pass
		Inner_Full	18.83	19.15	22.00	25.03	25.35	28.20	<=30	Pass
		Inner_1RB_Left	18.78	19.03	21.92	24.98	25.23	28.12	<=30	Pass
		Inner_1RB_Right	18.59	19.4	22.02	24.79	25.60	28.22	<=30	Pass
	3500.01	Edge_1RB_Left	18.38	18.27	21.34	24.58	24.47	27.54	<=30	Pass
		Edge_1RB_Right	18.07	18.99	21.56	24.27	25.19	27.76	<=30	Pass
		Outer_Full	18.64	19.06	21.87	24.84	25.26	28.07	<=30	Pass
		Inner_Full	18.72	19.14	21.95	24.92	25.34	28.15	<=30	Pass
		Inner_1RB_Left	18.91	18.71	21.82	25.11	24.91	28.02	<=30	Pass
		Inner_1RB_Right	18.73	19.5	22.14	24.93	25.70	28.34	<=30	Pass
	3510	Edge_1RB_Left	18.39	18.39	21.40	24.59	24.59	27.60	<=30	Pass
		Edge_1RB_Right	18.46	18.96	21.73	24.66	25.16	27.93	<=30	Pass
		Outer_Full	18.8	19.23	22.03	25.00	25.43	28.23	<=30	Pass
		Inner_Full	18.65	19.17	21.93	24.85	25.37	28.13	<=30	Pass
		Inner_1RB_Left	18.89	18.79	21.85	25.09	24.99	28.05	<=30	Pass
		Inner_1RB_Right	19.05	19.4	22.24	25.25	25.60	28.44	<=30	Pass
CP-OFDM 64 QAM	3490.02	Edge_1RB_Left	18.12	18.53	21.34	24.32	24.73	27.54	<=30	Pass
		Edge_1RB_Right	17.83	19.16	21.56	24.03	25.36	27.76	<=30	Pass
		Outer_Full	18.31	18.59	21.46	24.51	24.79	27.66	<=30	Pass
		Inner_Full	18.4	18.57	21.50	24.60	24.77	27.70	<=30	Pass
		Inner_1RB_Left	18	18.58	21.31	24.20	24.78	27.51	<=30	Pass
		Inner_1RB_Right	17.93	18.89	21.45	24.13	25.09	27.65	<=30	Pass
	3500.01	Edge_1RB_Left	18.31	18.08	21.21	24.51	24.28	27.41	<=30	Pass
		Edge_1RB_Right	18.16	18.99	21.61	24.36	25.19	27.81	<=30	Pass



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		Outer_Full	18.22	18.64	21.45	24.42	24.84	27.65	<=30	Pass	
		Inner_Full	18.18	18.64	21.43	24.38	24.84	27.63	<=30	Pass	
		Inner_1RB_Left	18.26	18.55	21.42	24.46	24.75	27.62	<=30	Pass	
		Inner_1RB_Right	18.17	18.91	21.57	24.37	25.11	27.77	<=30	Pass	
	3510	Edge_1RB_Left	18.48	18.41	21.46	24.68	24.61	27.66	<=30	Pass	
		Edge_1RB_Right	18.45	18.92	21.70	24.65	25.12	27.90	<=30	Pass	
		Outer_Full	18.26	18.7	21.50	24.46	24.90	27.70	<=30	Pass	
		Inner_Full	18.16	18.69	21.44	24.36	24.89	27.64	<=30	Pass	
		Inner_1RB_Left	18.56	18.18	21.38	24.76	24.38	27.58	<=30	Pass	
		Inner_1RB_Right	18.6	19.06	21.85	24.80	25.26	28.05	<=30	Pass	
	CP-OFDM 256 QAM	3490.02	Edge_1RB_Left	15.16	15.39	18.29	21.36	21.59	24.49	<=30	Pass
			Edge_1RB_Right	15.07	15.71	18.41	21.27	21.91	24.61	<=30	Pass
Outer_Full			15.3	15.57	18.45	21.50	21.77	24.65	<=30	Pass	
Inner_Full			15.37	15.62	18.51	21.57	21.82	24.71	<=30	Pass	
Inner_1RB_Left			15.17	15.35	18.27	21.37	21.55	24.47	<=30	Pass	
Inner_1RB_Right			14.79	15.74	18.30	20.99	21.94	24.50	<=30	Pass	
3500.01		Edge_1RB_Left	15.24	15.36	18.31	21.44	21.56	24.51	<=30	Pass	
		Edge_1RB_Right	15.24	16.07	18.69	21.44	22.27	24.89	<=30	Pass	
		Outer_Full	15.16	15.61	18.40	21.36	21.81	24.60	<=30	Pass	
		Inner_Full	15.23	15.57	18.41	21.43	21.77	24.61	<=30	Pass	
		Inner_1RB_Left	15.52	15.13	18.34	21.72	21.33	24.54	<=30	Pass	
		Inner_1RB_Right	15.14	15.82	18.50	21.34	22.02	24.70	<=30	Pass	
3510		Edge_1RB_Left	15.59	15.16	18.39	21.79	21.36	24.59	<=30	Pass	
		Edge_1RB_Right	15.39	15.64	18.53	21.59	21.84	24.73	<=30	Pass	
		Outer_Full	15.26	15.79	18.54	21.46	21.99	24.74	<=30	Pass	
		Inner_Full	15.12	15.69	18.42	21.32	21.89	24.62	<=30	Pass	
		Inner_1RB_Left	15.55	15.26	18.42	21.75	21.46	24.62	<=30	Pass	
		Inner_1RB_Right	15.38	15.74	18.57	21.58	21.94	24.77	<=30	Pass	
Note1: Antenna Gain: Ant1: 6.20dBi; Ant2: 6.20dBi;											
Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2											

1.1.10 30k_MIMO_90MHz_NTNV_EIRP

5G NR n77d SCS=30kHz MIMO 90MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	



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CP-OFDM QPSK	3495	Edge_1RB_Left	18.12	18.43	21.29	24.32	24.63	27.49	<=30	Pass
		Edge_1RB_Right	18.23	19.01	21.65	24.43	25.21	27.85	<=30	Pass
		Outer_Full	18.68	19	21.85	24.88	25.20	28.05	<=30	Pass
		Inner_Full	18.71	18.99	21.86	24.91	25.19	28.06	<=30	Pass
		Inner_1RB_Left	18.64	19.01	21.84	24.84	25.21	28.04	<=30	Pass
		Inner_1RB_Right	18.81	19.55	22.21	25.01	25.75	28.41	<=30	Pass
	3500.01	Edge_1RB_Left	18.12	18.49	21.32	24.32	24.69	27.52	<=30	Pass
		Edge_1RB_Right	18.42	18.84	21.65	24.62	25.04	27.85	<=30	Pass
		Outer_Full	18.81	19.07	21.95	25.01	25.27	28.15	<=30	Pass
		Inner_Full	18.68	19.07	21.89	24.88	25.27	28.09	<=30	Pass
		Inner_1RB_Left	18.72	18.73	21.74	24.92	24.93	27.94	<=30	Pass
		Inner_1RB_Right	18.78	19.42	22.12	24.98	25.62	28.32	<=30	Pass
	3504.99	Edge_1RB_Left	18.39	18.18	21.30	24.59	24.38	27.50	<=30	Pass
		Edge_1RB_Right	18.69	18.99	21.85	24.89	25.19	28.05	<=30	Pass
		Outer_Full	18.79	19.26	22.04	24.99	25.46	28.24	<=30	Pass
		Inner_Full	18.8	19.28	22.06	25.00	25.48	28.26	<=30	Pass
		Inner_1RB_Left	19.06	18.67	21.88	25.26	24.87	28.08	<=30	Pass
		Inner_1RB_Right	19.24	19.52	22.39	25.44	25.72	28.59	<=30	Pass
CP-OFDM 16 QAM	3495	Edge_1RB_Left	18.4	18.7	21.56	24.60	24.90	27.76	<=30	Pass
		Edge_1RB_Right	18.13	19.16	21.69	24.33	25.36	27.89	<=30	Pass
		Outer_Full	18.73	19.01	21.88	24.93	25.21	28.08	<=30	Pass
		Inner_Full	18.74	19	21.88	24.94	25.20	28.08	<=30	Pass
		Inner_1RB_Left	18.75	18.9	21.84	24.95	25.10	28.04	<=30	Pass
		Inner_1RB_Right	18.66	19.51	22.12	24.86	25.71	28.32	<=30	Pass
	3500.01	Edge_1RB_Left	18.29	18.48	21.40	24.49	24.68	27.60	<=30	Pass
		Edge_1RB_Right	18.36	18.92	21.66	24.56	25.12	27.86	<=30	Pass
		Outer_Full	18.73	19.1	21.93	24.93	25.30	28.13	<=30	Pass
		Inner_Full	18.75	19.1	21.94	24.95	25.30	28.14	<=30	Pass
		Inner_1RB_Left	18.87	18.65	21.77	25.07	24.85	27.97	<=30	Pass
		Inner_1RB_Right	18.97	19.53	22.27	25.17	25.73	28.47	<=30	Pass
	3504.99	Edge_1RB_Left	18.46	18.24	21.36	24.66	24.44	27.56	<=30	Pass
		Edge_1RB_Right	18.53	18.92	21.74	24.73	25.12	27.94	<=30	Pass
		Outer_Full	18.79	19.25	22.04	24.99	25.45	28.24	<=30	Pass
		Inner_Full	18.77	19.21	22.01	24.97	25.41	28.21	<=30	Pass
		Inner_1RB_Left	18.74	18.73	21.75	24.94	24.93	27.95	<=30	Pass
		Inner_1RB_Right	19.08	19.36	22.23	25.28	25.56	28.43	<=30	Pass
CP-OFDM 64	3495	Edge_1RB_Left	18.12	18.22	21.18	24.32	24.42	27.38	<=30	Pass



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QAM		Edge_1RB_Right	18.32	18.9	21.63	24.52	25.10	27.83	<=30	Pass
		Outer_Full	18.22	18.5	21.37	24.42	24.70	27.57	<=30	Pass
		Inner_Full	18.25	18.48	21.38	24.45	24.68	27.58	<=30	Pass
		Inner_1RB_Left	18.18	18.72	21.47	24.38	24.92	27.67	<=30	Pass
		Inner_1RB_Right	18.41	19.1	21.78	24.61	25.30	27.98	<=30	Pass
	3500.01	Edge_1RB_Left	18.16	18.33	21.26	24.36	24.53	27.46	<=30	Pass
		Edge_1RB_Right	18.36	18.98	21.69	24.56	25.18	27.89	<=30	Pass
		Outer_Full	18.21	18.6	21.42	24.41	24.80	27.62	<=30	Pass
		Inner_Full	18.25	18.66	21.47	24.45	24.86	27.67	<=30	Pass
		Inner_1RB_Left	18.09	18.42	21.27	24.29	24.62	27.47	<=30	Pass
		Inner_1RB_Right	18.24	18.92	21.60	24.44	25.12	27.80	<=30	Pass
	3504.99	Edge_1RB_Left	18.25	18.24	21.26	24.45	24.44	27.46	<=30	Pass
		Edge_1RB_Right	18.63	18.79	21.72	24.83	24.99	27.92	<=30	Pass
		Outer_Full	18.3	18.63	21.48	24.50	24.83	27.68	<=30	Pass
		Inner_Full	18.18	18.64	21.43	24.38	24.84	27.63	<=30	Pass
		Inner_1RB_Left	18.41	18.17	21.30	24.61	24.37	27.50	<=30	Pass
		Inner_1RB_Right	18.6	18.89	21.76	24.80	25.09	27.96	<=30	Pass
CP-OFDM 256 QAM	3495	Edge_1RB_Left	15.14	15.29	18.23	21.34	21.49	24.43	<=30	Pass
		Edge_1RB_Right	15.15	15.89	18.55	21.35	22.09	24.75	<=30	Pass
		Outer_Full	15.2	15.53	18.38	21.40	21.73	24.58	<=30	Pass
		Inner_Full	15.22	15.51	18.38	21.42	21.71	24.58	<=30	Pass
		Inner_1RB_Left	15.1	15.36	18.24	21.30	21.56	24.44	<=30	Pass
		Inner_1RB_Right	15.19	16.03	18.64	21.39	22.23	24.84	<=30	Pass
	3500.01	Edge_1RB_Left	15.17	15.36	18.28	21.37	21.56	24.48	<=30	Pass
		Edge_1RB_Right	15.34	15.91	18.64	21.54	22.11	24.84	<=30	Pass
		Outer_Full	15.15	15.6	18.39	21.35	21.80	24.59	<=30	Pass
		Inner_Full	15.14	15.54	18.35	21.34	21.74	24.55	<=30	Pass
		Inner_1RB_Left	15.31	15.34	18.34	21.51	21.54	24.54	<=30	Pass
		Inner_1RB_Right	15.34	15.87	18.62	21.54	22.07	24.82	<=30	Pass
	3504.99	Edge_1RB_Left	15.35	15.47	18.42	21.55	21.67	24.62	<=30	Pass
		Edge_1RB_Right	15.71	15.9	18.82	21.91	22.10	25.02	<=30	Pass
		Outer_Full	15.28	15.83	18.57	21.48	22.03	24.77	<=30	Pass
		Inner_Full	15.22	15.7	18.48	21.42	21.90	24.68	<=30	Pass
		Inner_1RB_Left	15.39	15.26	18.34	21.59	21.46	24.54	<=30	Pass
		Inner_1RB_Right	15.55	16.06	18.82	21.75	22.26	25.02	<=30	Pass

Note1: Antenna Gain: Ant1: 6.20dBi; Ant2: 6.20dBi;

Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP



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Ant 1+ERP Ant 2

1.1.11 30k_MIMO_100MHz_NTNV_EIRP

5G NR n77d SCS=30kHz MIMO 100MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3500.01	Edge_1RB_Left	18.14	18.39	21.28	24.34	24.59	27.48	<=30	Pass
		Edge_1RB_Right	18.61	18.83	21.73	24.81	25.03	27.93	<=30	Pass
		Outer_Full	18.78	19.09	21.95	24.98	25.29	28.15	<=30	Pass
		Inner_Full	18.7	19.09	21.91	24.90	25.29	28.11	<=30	Pass
		Inner_1RB_Left	18.63	18.85	21.75	24.83	25.05	27.95	<=30	Pass
		Inner_1RB_Right	19.13	19.43	22.29	25.33	25.63	28.49	<=30	Pass
	3500.01	Edge_1RB_Left	18.27	18.47	21.38	24.47	24.67	27.58	<=30	Pass
		Edge_1RB_Right	18.69	19.03	21.87	24.89	25.23	28.07	<=30	Pass
		Outer_Full	18.81	19.07	21.95	25.01	25.27	28.15	<=30	Pass
		Inner_Full	18.7	19.09	21.91	24.90	25.29	28.11	<=30	Pass
		Inner_1RB_Left	18.54	19.03	21.80	24.74	25.23	28.00	<=30	Pass
		Inner_1RB_Right	18.98	19.54	22.28	25.18	25.74	28.48	<=30	Pass
	3499.98	Edge_1RB_Left	18.12	18.41	21.28	24.32	24.61	27.48	<=30	Pass
		Edge_1RB_Right	18.61	19.05	21.85	24.81	25.25	28.05	<=30	Pass
		Outer_Full	18.76	19.11	21.95	24.96	25.31	28.15	<=30	Pass
		Inner_Full	18.75	19.11	21.94	24.95	25.31	28.14	<=30	Pass
		Inner_1RB_Left	18.67	18.98	21.84	24.87	25.18	28.04	<=30	Pass
		Inner_1RB_Right	19.08	19.35	22.23	25.28	25.55	28.43	<=30	Pass
CP-OFDM 16 QAM	3500.01	Edge_1RB_Left	18.21	18.61	21.42	24.41	24.81	27.62	<=30	Pass
		Edge_1RB_Right	18.53	18.73	21.64	24.73	24.93	27.84	<=30	Pass
		Outer_Full	18.77	19.06	21.93	24.97	25.26	28.13	<=30	Pass
		Inner_Full	18.7	19.07	21.90	24.90	25.27	28.10	<=30	Pass
		Inner_1RB_Left	18.52	18.86	21.70	24.72	25.06	27.90	<=30	Pass
		Inner_1RB_Right	19.13	19.42	22.29	25.33	25.62	28.49	<=30	Pass
	3500.01	Edge_1RB_Left	18.05	18.41	21.24	24.25	24.61	27.44	<=30	Pass
		Edge_1RB_Right	18.82	19.04	21.94	25.02	25.24	28.14	<=30	Pass
		Outer_Full	18.75	19.05	21.91	24.95	25.25	28.11	<=30	Pass
		Inner_Full	18.74	19.1	21.93	24.94	25.30	28.13	<=30	Pass
		Inner_1RB_Left	18.55	18.84	21.71	24.75	25.04	27.91	<=30	Pass
		Inner_1RB_Right	19.15	19.49	22.33	25.35	25.69	28.53	<=30	Pass
	3499.98	Edge_1RB_Left	18.32	18.57	21.46	24.52	24.77	27.66	<=30	Pass



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		Edge_1RB_Right	18.58	18.97	21.79	24.78	25.17	27.99	<=30	Pass
		Outer_Full	18.76	19.16	21.97	24.96	25.36	28.17	<=30	Pass
		Inner_Full	18.76	19.18	21.99	24.96	25.38	28.19	<=30	Pass
		Inner_1RB_Left	18.65	18.98	21.83	24.85	25.18	28.03	<=30	Pass
		Inner_1RB_Right	19.17	19.71	22.46	25.37	25.91	28.66	<=30	Pass
CP-OFDM 64 QAM	3500.01	Edge_1RB_Left	18.16	18.66	21.43	24.36	24.86	27.63	<=30	Pass
		Edge_1RB_Right	18.55	18.74	21.66	24.75	24.94	27.86	<=30	Pass
		Outer_Full	18.22	18.57	21.41	24.42	24.77	27.61	<=30	Pass
		Inner_Full	18.25	18.61	21.44	24.45	24.81	27.64	<=30	Pass
		Inner_1RB_Left	17.95	18.43	21.21	24.15	24.63	27.41	<=30	Pass
		Inner_1RB_Right	18.59	19.03	21.83	24.79	25.23	28.03	<=30	Pass
	3500.01	Edge_1RB_Left	18.11	18.31	21.22	24.31	24.51	27.42	<=30	Pass
		Edge_1RB_Right	18.67	18.92	21.81	24.87	25.12	28.01	<=30	Pass
		Outer_Full	18.19	18.58	21.40	24.39	24.78	27.60	<=30	Pass
		Inner_Full	18.22	18.6	21.42	24.42	24.80	27.62	<=30	Pass
		Inner_1RB_Left	18	18.3	21.16	24.20	24.50	27.36	<=30	Pass
		Inner_1RB_Right	18.66	18.96	21.82	24.86	25.16	28.02	<=30	Pass
	3499.98	Edge_1RB_Left	18.31	18.62	21.48	24.51	24.82	27.68	<=30	Pass
		Edge_1RB_Right	18.58	18.8	21.70	24.78	25.00	27.90	<=30	Pass
		Outer_Full	18.28	18.62	21.46	24.48	24.82	27.66	<=30	Pass
		Inner_Full	18.23	18.6	21.43	24.43	24.80	27.63	<=30	Pass
		Inner_1RB_Left	18.07	18.45	21.27	24.27	24.65	27.47	<=30	Pass
		Inner_1RB_Right	18.5	18.93	21.73	24.70	25.13	27.93	<=30	Pass
CP-OFDM 256 QAM	3500.01	Edge_1RB_Left	15.31	15.45	18.39	21.51	21.65	24.59	<=30	Pass
		Edge_1RB_Right	15.57	15.84	18.72	21.77	22.04	24.92	<=30	Pass
		Outer_Full	15.27	15.52	18.41	21.47	21.72	24.61	<=30	Pass
		Inner_Full	15.17	15.63	18.42	21.37	21.83	24.62	<=30	Pass
		Inner_1RB_Left	15.12	15.34	18.24	21.32	21.54	24.44	<=30	Pass
		Inner_1RB_Right	15.45	15.98	18.73	21.65	22.18	24.93	<=30	Pass
	3500.01	Edge_1RB_Left	14.98	15.48	18.25	21.18	21.68	24.45	<=30	Pass
		Edge_1RB_Right	15.51	16.06	18.80	21.71	22.26	25.00	<=30	Pass
		Outer_Full	15.25	15.62	18.45	21.45	21.82	24.65	<=30	Pass
		Inner_Full	15.21	15.55	18.39	21.41	21.75	24.59	<=30	Pass
		Inner_1RB_Left	14.99	15.4	18.21	21.19	21.60	24.41	<=30	Pass
		Inner_1RB_Right	15.67	15.91	18.80	21.87	22.11	25.00	<=30	Pass
	3499.98	Edge_1RB_Left	15.2	15.32	18.27	21.40	21.52	24.47	<=30	Pass
		Edge_1RB_Right	15.67	15.89	18.79	21.87	22.09	24.99	<=30	Pass



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	Outer_Full	15.22	15.64	18.45	21.42	21.84	24.65	<=30	Pass
	Inner_Full	15.23	15.63	18.44	21.43	21.83	24.64	<=30	Pass
	Inner_1RB_Left	15.16	15.47	18.33	21.36	21.67	24.53	<=30	Pass
	Inner_1RB_Right	15.81	15.97	18.90	22.01	22.17	25.10	<=30	Pass

Note1: Antenna Gain: Ant1: 6.20dBi; Ant2: 6.20dBi;
 Note2: ERP Ant 1=Conducted Power 1+Ant Gain-2.15 / ERP Ant 2=Conducted Power 2+Ant Gain-2.15 / Sum=ERP Ant 1+ERP Ant 2

2. Frequency Stability

2.1 Test Result

2.1.1 30k_SISO_100MHz

5G NR n77d SCS=30kHz SISO 100MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	20	LV	-13.70	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			0	NV	-7.90	-0.0023	>=-2.5 & <=2.5	Pass
			10	NV	-9.70	-0.0028	>=-2.5 & <=2.5	Pass
			20	NV	-10.40	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-6.90	-0.0020	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	20	LV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
				HV	-14.70	-0.0042	>=-2.5 & <=2.5	Pass
			0	NV	-1.50	-0.0004	>=-2.5 & <=2.5	Pass
			10	NV	-8.70	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-9.00	-0.0026	>=-2.5 & <=2.5	Pass
			40	NV	3.90	0.0011	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	20	LV	8.00	0.0023	>=-2.5 & <=2.5	Pass
				HV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-3.00	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	-9.20	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-14.00	-0.0040	>=-2.5 & <=2.5	Pass
			30	NV	1.50	0.0004	>=-2.5 & <=2.5	Pass



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			40	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-12.00	-0.0034	>=-2.5 & <=2.5	Pass
				HV	-9.40	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-14.60	-0.0042	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0024	>=-2.5 & <=2.5	Pass
			20	NV	-12.10	-0.0035	>=-2.5 & <=2.5	Pass
			30	NV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-17.70	-0.0051	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-17.10	-0.0049	>=-2.5 & <=2.5	Pass
				HV	-18.70	-0.0053	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0022	>=-2.5 & <=2.5	Pass
			10	NV	6.20	0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-7.30	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-7.80	-0.0022	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	3500.01	Outer_Full	20	LV	6.30	0.0018	>=-2.5 & <=2.5	Pass
				HV	-25.30	-0.0072	>=-2.5 & <=2.5	Pass
			0	NV	-7.00	-0.0020	>=-2.5 & <=2.5	Pass
			10	NV	-11.90	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-13.60	-0.0039	>=-2.5 & <=2.5	Pass
			30	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-17.60	-0.0050	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	20	LV	12.10	0.0035	>=-2.5 & <=2.5	Pass
				HV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-7.40	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-1.70	-0.0005	>=-2.5 & <=2.5	Pass
			20	NV	-7.10	-0.0020	>=-2.5 & <=2.5	Pass
			30	NV	-12.80	-0.0037	>=-2.5 & <=2.5	Pass
			40	NV	-5.40	-0.0015	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	20	LV	-10.70	-0.0031	>=-2.5 & <=2.5	Pass
				HV	-14.30	-0.0041	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-11.80	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-4.10	-0.0012	>=-2.5 & <=2.5	Pass
			30	NV	-6.80	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-2.60	-0.0007	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	20	LV	-17.20	-0.0049	>=-2.5 & <=2.5	Pass



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			HV	6.40	0.0018	≥ -2.5 & ≤ 2.5	Pass
		0	NV	-13.20	-0.0038	≥ -2.5 & ≤ 2.5	Pass
		10	NV	-5.70	-0.0016	≥ -2.5 & ≤ 2.5	Pass
		20	NV	0.40	0.0001	≥ -2.5 & ≤ 2.5	Pass
		30	NV	-4.60	-0.0013	≥ -2.5 & ≤ 2.5	Pass
		40	NV	-12.70	-0.0036	≥ -2.5 & ≤ 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 30k_SISO_10MHz_NTNV

5G NR n77d SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3455.01	Outer_Full	8.68	10.04	/	Pass
	3500.01	Outer_Full	8.76	10.31	/	Pass
	3544.98	Outer_Full	8.76	10.26	/	Pass
DFT-s-OFDM QPSK	3455.01	Outer_Full	8.72	10.36	/	Pass
	3500.01	Outer_Full	8.71	10.27	/	Pass
	3544.98	Outer_Full	8.70	10.22	/	Pass
DFT-s-OFDM 16 QAM	3455.01	Outer_Full	8.74	10.35	/	Pass
	3500.01	Outer_Full	8.73	10.11	/	Pass
	3544.98	Outer_Full	8.65	10.25	/	Pass
DFT-s-OFDM 64 QAM	3455.01	Outer_Full	8.71	10.34	/	Pass
	3500.01	Outer_Full	8.75	10.15	/	Pass
	3544.98	Outer_Full	8.75	10.26	/	Pass
DFT-s-OFDM 256 QAM	3455.01	Outer_Full	8.73	10.11	/	Pass
	3500.01	Outer_Full	8.66	10.42	/	Pass
	3544.98	Outer_Full	8.73	10.25	/	Pass
CP-OFDM QPSK	3455.01	Outer_Full	8.76	10.36	/	Pass
	3500.01	Outer_Full	8.73	10.34	/	Pass
	3544.98	Outer_Full	8.73	10.39	/	Pass
CP-OFDM 16 QAM	3455.01	Outer_Full	8.75	10.39	/	Pass
	3500.01	Outer_Full	8.74	10.50	/	Pass
	3544.98	Outer_Full	8.75	10.22	/	Pass



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CP-OFDM 64 QAM	3455.01	Outer_Full	8.74	10.08	/	Pass
	3500.01	Outer_Full	8.73	10.19	/	Pass
	3544.98	Outer_Full	8.71	10.28	/	Pass
CP-OFDM 256 QAM	3455.01	Outer_Full	8.73	9.97	/	Pass
	3500.01	Outer_Full	8.75	10.09	/	Pass
	3544.98	Outer_Full	8.75	10.27	/	Pass

3.1.2 30k_SISO_15MHz_NTNV

5G NR n77d SCS=30kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3457.5	Outer_Full	13.09	14.58	/	Pass
	3500.01	Outer_Full	13.11	14.89	/	Pass
	3542.49	Outer_Full	13.11	14.71	/	Pass
DFT-s-OFDM QPSK	3457.5	Outer_Full	13.12	14.89	/	Pass
	3500.01	Outer_Full	13.09	15.07	/	Pass
	3542.49	Outer_Full	13.08	14.77	/	Pass
DFT-s-OFDM 16 QAM	3457.5	Outer_Full	13.10	14.73	/	Pass
	3500.01	Outer_Full	13.06	14.82	/	Pass
	3542.49	Outer_Full	13.08	14.73	/	Pass
DFT-s-OFDM 64 QAM	3457.5	Outer_Full	13.12	15.04	/	Pass
	3500.01	Outer_Full	13.10	14.91	/	Pass
	3542.49	Outer_Full	13.14	15.03	/	Pass
DFT-s-OFDM 256 QAM	3457.5	Outer_Full	13.09	14.92	/	Pass
	3500.01	Outer_Full	13.09	14.81	/	Pass
	3542.49	Outer_Full	13.09	14.88	/	Pass
CP-OFDM QPSK	3457.5	Outer_Full	13.77	15.59	/	Pass
	3500.01	Outer_Full	13.77	15.62	/	Pass
	3542.49	Outer_Full	13.72	15.41	/	Pass
CP-OFDM 16 QAM	3457.5	Outer_Full	13.78	15.62	/	Pass
	3500.01	Outer_Full	13.73	15.61	/	Pass
	3542.49	Outer_Full	13.77	15.41	/	Pass
CP-OFDM 64 QAM	3457.5	Outer_Full	13.76	15.50	/	Pass
	3500.01	Outer_Full	13.75	15.71	/	Pass
	3542.49	Outer_Full	13.78	15.97	/	Pass
CP-OFDM 256 QAM	3457.5	Outer_Full	13.77	15.52	/	Pass
	3500.01	Outer_Full	13.73	15.44	/	Pass



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	3542.49	Outer_Full	13.74	15.53	/	Pass
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3.1.3 30k_SISO_20MHz_NTNV

5G NR n77d SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3460.02	Outer_Full	18.11	19.99	/	Pass
	3500.01	Outer_Full	18.10	19.95	/	Pass
	3540	Outer_Full	18.12	19.85	/	Pass
DFT-s-OFDM QPSK	3460.02	Outer_Full	18.07	19.80	/	Pass
	3500.01	Outer_Full	18.11	20.09	/	Pass
	3540	Outer_Full	18.13	19.98	/	Pass
DFT-s-OFDM 16 QAM	3460.02	Outer_Full	18.07	19.68	/	Pass
	3500.01	Outer_Full	18.13	19.78	/	Pass
	3540	Outer_Full	18.06	19.56	/	Pass
DFT-s-OFDM 64 QAM	3460.02	Outer_Full	18.09	20.05	/	Pass
	3500.01	Outer_Full	18.12	19.95	/	Pass
	3540	Outer_Full	18.11	19.59	/	Pass
DFT-s-OFDM 256 QAM	3460.02	Outer_Full	18.11	20.07	/	Pass
	3500.01	Outer_Full	18.09	19.89	/	Pass
	3540	Outer_Full	18.09	19.85	/	Pass
CP-OFDM QPSK	3460.02	Outer_Full	18.37	20.43	/	Pass
	3500.01	Outer_Full	18.43	20.49	/	Pass
	3540	Outer_Full	18.39	20.45	/	Pass
CP-OFDM 16 QAM	3460.02	Outer_Full	18.45	20.48	/	Pass
	3500.01	Outer_Full	18.42	21.04	/	Pass
	3540	Outer_Full	18.41	20.32	/	Pass
CP-OFDM 64 QAM	3460.02	Outer_Full	18.41	20.16	/	Pass
	3500.01	Outer_Full	18.43	20.44	/	Pass
	3540	Outer_Full	18.39	20.45	/	Pass
CP-OFDM 256 QAM	3460.02	Outer_Full	18.44	20.21	/	Pass
	3500.01	Outer_Full	18.45	20.27	/	Pass
	3540	Outer_Full	18.39	20.45	/	Pass

3.1.4 30k_SISO_30MHz_NTNV

5G NR n77d SCS=30kHz SISO 30MHz NTN



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Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3465	Outer_Full	27.09	29.34	/	Pass
	3500.01	Outer_Full	27.12	29.39	/	Pass
	3534.99	Outer_Full	27.17	29.39	/	Pass
DFT-s-OFDM QPSK	3465	Outer_Full	27.20	29.57	/	Pass
	3500.01	Outer_Full	27.12	29.51	/	Pass
	3534.99	Outer_Full	27.15	29.58	/	Pass
DFT-s-OFDM 16 QAM	3465	Outer_Full	27.11	29.44	/	Pass
	3500.01	Outer_Full	27.16	29.04	/	Pass
	3534.99	Outer_Full	27.09	29.39	/	Pass
DFT-s-OFDM 64 QAM	3465	Outer_Full	27.03	29.48	/	Pass
	3500.01	Outer_Full	27.12	29.37	/	Pass
	3534.99	Outer_Full	27.20	29.37	/	Pass
DFT-s-OFDM 256 QAM	3465	Outer_Full	27.11	29.48	/	Pass
	3500.01	Outer_Full	27.10	29.52	/	Pass
	3534.99	Outer_Full	27.17	29.44	/	Pass
CP-OFDM QPSK	3465	Outer_Full	28.12	30.61	/	Pass
	3500.01	Outer_Full	28.13	30.42	/	Pass
	3534.99	Outer_Full	28.18	30.52	/	Pass
CP-OFDM 16 QAM	3465	Outer_Full	28.11	30.51	/	Pass
	3500.01	Outer_Full	28.20	30.68	/	Pass
	3534.99	Outer_Full	28.18	30.52	/	Pass
CP-OFDM 64 QAM	3465	Outer_Full	28.11	30.44	/	Pass
	3500.01	Outer_Full	28.07	31.02	/	Pass
	3534.99	Outer_Full	28.11	30.75	/	Pass
CP-OFDM 256 QAM	3465	Outer_Full	28.07	30.54	/	Pass
	3500.01	Outer_Full	28.11	30.76	/	Pass
	3534.99	Outer_Full	28.16	30.55	/	Pass

3.1.5 30k_SISO_40MHz_NTNV

5G NR n77d SCS=30kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3470.01	Outer_Full	36.09	38.67	/	Pass
	3500.01	Outer_Full	36.14	38.88	/	Pass
	3529.98	Outer_Full	36.11	38.64	/	Pass



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